TOWN OF SCITUATE, RHODE ISLAND INVITATION TO BID

PROJECT: SCIT052 SCITUATE TOWN HALL RENOVATIONS

Sealed bid proposals to perform the subject project in accordance with the specifications enclosed herewith, and made a part of this invitation will be received in the Office of the Town Clerk addressed to:

Town of Scituate Purchasing Agent 195 Danielson Pike N. Scituate, RI 02857

until **Friday**, **January 26**, **2024** at **1:00 p.m.** (**EST**). The bid proposals will be opened and read aloud at the Bid Opening on Friday, January 26, 2024, at 1:15 p.m. Individuals requesting interpreter services for the hearing impaired should call the Town Clerk at 647-2822, 72 hours in advance of the bid opening.

Any bid proposal received after said date and time, whether hand delivered, submitted via United States Postal Service, or submitted via any other delivery service, shall be declared invalid. All bids must be placed in a sealed envelope that is plainly marked "BID PROPOSAL FOR: SCIT052 SCITUAT TOWN HALL RENOVATIONS".

The bid award and signing of contract conditions are set forth in the enclosed specifications. Additional copies of the Contract and Specifications may be obtained from the Town Clerk at 401-647-2822.

The <u>Architect</u> and Purchasing Agent shall submit a list of bid results and recommend a successful bidder to the Town Council at a regular council meeting no later than March 14, 2024.

Pre-Bid Meeting: A mandatory pre-bid meeting will be held on Tuesday, January 16, 2024 at Scituate Town Hall, 195 Danielson Pike, North Scituate, Rhode Island at 10:00 am.

THE TOWN OF SCITUATE RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS OR ANY PARTS THEREOF; TO WAIVE INFORMALITIES AND TECHNICALITIES; AND, TO ACCEPT THAT BID WHICH THE TOWN AND PURCHASING AGENT DEEM TO BE IN THE BEST INTEREST OF THE TOWN, WHETHER OR NOT IT IS THE LOWEST DOLLAR BID.

SCOPE OF WORK AND PROJECT SPECIFICATIONS

See Section 01 11 00 Summary of Work.

TOWN OF SCITUATE, RHODE ISLAND BID CONDITIONS AND CONTENT

- 1. Bids shall be signed by a duly authorized agent or official of the contractor / vendor who has legal authority to bind the company, and must clearly identify the scope of services and prosed time frame for completion. Incomplete bid forms may be cause for disqualification of the bid.
- 2. Bids that are renumbered or re-sequenced may be cause for rejection if all information cannot be easily found and identified. Bidders wishing to re-word or reformat the enclosed documents should do so in an addendum identifying the pages or sections to be changed.
- 3. Bids must be submitted with three (3) complete copies.
- 4. Bids must be submitted in a sealed envelope clearly marked, so as to guard against opening prior to the appointed time, with the:

NAME OF THE BIDDER ADDRESS OF THE BIDDER WORDS "BID DOCUMENTS FOR: SCIT052 SCITUATE TOWN HALL RENOVATIONS" DATE OF THE BID

- 5. If mailed, the sealed envelope containing the proposal shall be marked as stated above and shall be enclosed in another envelope properly addressed for mailing.
- 6. Within a reasonable time after the bid opening, the TOWN OF SCITUATE, RHODE ISLAND, (herein after referred to as the TOWN) shall act on the award of a contract for the project.
- 7. The TOWN reserves the right to withdraw this request at any time based on available funding.
- 8. The TOWN shall be the sole judge as to whether any bid complies with these specifications, and such a decision shall be final and conclusive. Bidders shall state any exceptions taken to the bid specifications.
- 9. THE TOWN RESERVES THE RIGHT TO REJECT ANY, OR PART, OF ALL BID PROPOSALS; WAIVE ANY INFORMALITIES AND TECHNICALITIES; AND TO ACCEPT THAT BID WHICH THE TOWN COUNCIL DEEMS TO BE IN THE BEST INTEREST OF THE TOWN, WHETHER OR NOT IT IS THE LOWEST DOLLAR BID.
- 10. Proposals submitted in unmarked envelopes, which are opened by the TOWN in its normal course of business, will not be accepted. If time permits, the proposal may be

- returned to the bidder informing them that the proposal may be resubmitted in a sealed envelope properly marked as indicated above.
- 11. Bid prices shall not include any sales, excise or other taxes for which the TOWN is not liable. All bidders shall honor their properly submitted bid for a period of sixty (60) days subsequent to date of bid opening, without escalation.
- 12. Tax Compliance Successful bidder shall be required to submit a current W-9 form in conformance with the attached sample, affirming current reporting compliance with all relevant jurisdictions.
- 13. Consideration in the awarding of the CONTRACT will be given to price, experience and competence of the bidder, the nature and size of the bidder's organization, and quality of similar projects it has performed and completed in the past and a determination by the TOWN that the COMPANY has the ability to complete the work.
- 14. Insurance Successful bidder shall be required to provide valid certificate of General Liability, auto and/or other vehicle, umbrella and (if required) workers compensation insurance in conformance with the attached sample, naming the TOWN OF SCITUATE, RHODE ISLAND as additional insured.
- 15. SURETY BOND REQUIRED: YES: _X_ NO: ____ If required, the COMPANY shall, to secure the faithful intent of this bid, furnish to the TOWN surety, in the amount of five per cent (5%) of the total dollar bid in the form of a Bid Surety Bond or a Certified Check made payable to the "TOWN OF SCITUATE". If a Bid Bond is submitted, it shall be issued by a company authorized to issue such surety bond in the State of Rhode Island and acceptable to the TOWN.
- 16. PERFORMANCE BOND REQUIRED: YES: _X NO: ___ The Successful Bidder shall furnish to the TOWN a Performance Surety Bond in the amount of the CONTRACT, which bond shall be issued by a reputable bonding company authorized to do such business in the State of Rhode Island and acceptable to the TOWN. Said bond shall be in the form satisfactory to and approved by the TOWN. The performance bond shall be delivered to the Town prior to the commencement of work. The bond shall include the appeal requirements of these PROJECT SPECIFICATIONS.
- 17. The COMPANY must bid the project as outlined in the CONTRACT and PROJECT SPECIFICATIONS. If the COMPANY proposes to perform any optional work or to substitute any part of the PROJECT SPECIFICATIONS, such options and/or substitutions must be explained in detail and the amount of additional or reduction in cost must be listed.

18. The following items shall also be included with the bid:

Personnel Roster
Client list for past five (5) years including current projects
Statement of Qualifications
Name and resume of project manager
Non-Collusive Bid Statement

- 19. Each bidder must inform themselves of the conditions relating to the specifications of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of their obligation to furnish all material and labor necessary to carry out the provisions of this CONTRACT. At the time of opening of the bids, each bidder will be presumed to have read, and to be thoroughly familiar with, the plans and CONTRACT documents (including all addenda). The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect to this bid.
- 20. The bidder's attention is directed to the fact that all applicable state laws, municipal ordinances and the rules and regulations of all authorities having jurisdiction over performance of the project shall apply to the CONTRACT throughout, and they will be deemed to be included in the CONTRACT the same as though herein written out in full.
- 21. <u>Prevailing Wage</u> Successful bidder shall be required to furnish completed certificate guaranteeing payment of prevailing wage and indemnifying the Town of Scituate, Rhode Island from any loss whatsoever arising from failure to pay prevailing wage in conformance with the attached sample.

22. COMPLETION DATE AND TIME SCHEDULE: See Section 3 in Scope of Work above.

A. Awarding of Contract

Within a reasonable time after the opening of the bids, the TOWN shall award a contract for the revaluation project. The Town reserves the right to reject any and all bids as previously stated.

B. Signing the Contract

Within thirty (30) days after the receipt of notice of acceptance by the TOWN of its proposal, the COMPANY shall execute with the TOWN a CONTRACT upon the basis of these specifications.

The COMPANY shall commence work within thirty (30) days of the signing of said CONTRACT.

- 23. The General Contractor shall have a current Rhode Island Registration.
- 24. All sub-contractors shall have a Rhode Island Registration or License for each trade and be in good standing with the State of Rhode Island.
- 25. A signed Mechanics Lien shall be supplied to the Town.

- 26. All building permits shall be applied for electronically. There shall be no Town fee charged for permits, but all state fees shall be collected.
- 27. All Trades shall supply a 128 during the entire project period and supply all forms to the Scituate Building Department.
- 28. All third-part testing shall be supplied to the Building Department as well.
- 29. All inspections shall be required and requested by phoning the Scituate Building Department office at 401-647-5901.
 - a. Scituate Mechanical and Plumbing Inspectors are part-time and only available after normal business hours.
 - b. Scituate Electrical Inspector is only available weekdays during the morning hours unless special arrangements are made.

TOWN OF SCITUATE, RHODE ISLAND BID FORM

Project: SCIT052 SCITUATE TOWN HALL RENOVATIONS

The undersigned duly authorized agent for the **COMPANY** submitting this bid affirms and declares:

- 1. That this bid is executed with full knowledge and acceptance of the **PROJECT SPECIFICATIONS** enclosed with the **INVITATION TO BID** on the subject project.
- 2. IF REQUIRED, that should this bid be accepted in writing by the **TOWN**, said **COMPANY** will furnish the services for which this bid is submitted as the dollar amount indicated and in full compliance with the provisions of said **PROJECT SPECIFICATIONS**.
- 3. IF REQUIRED, that the bid is accompanied by surety in the amount of five percent (5%) of the dollar bid.
- 4. That all items, documents, statements and other information as required by the **PROJECT SPECIFICATIONS** have been submitted herein.
- 5. That the **COMPANY** understands and accepts that although the dollar amount of this bid is a major factor for consideration, the **TOWN** reserves the right to award the **CONTRACT** to other than the **COMPANY** submitting the lowest dollar bid after careful analysis of additional factors outlined in the **CONTRACT** and **PROJECT SPECIFICATIONS**.
- 6. That the **COMPANY** proposes to furnish the services and materials required to complete the aforesaid **PROJECT SPECIFICATIONS** in the total *Not to Exceed* Dollar amount below.

BID AMOUNT:

Respondent will provide not-to-exceed lump sum figure. (Total Not to Exceed Dollar Amount)	
(Written Not to Exceed Dollar Amount)	
By: Name and Title	
Signature	
Business address	
Telephone Number	
E-mail Address	

TOWN OF SCITUATE, RHODE ISLAND NON-COLLUSIVE BID STATEMENT

All bidders are required to sign a Non-Collusive Statement with all public bids as follows:

1. The bid has been arrived at by the bidder independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with, any other vendor of materials, supplies, equipment, or services described in the Invitation to Bid, designed to limit independent bidding or competition,

And

2. The contents of the bid have not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the bid, and will not be communicated to any such person prior to the opening of the bid.

Signature		
Printed Name		
Title		
Company		
 Date		



RI Department of Labor and Training Page:_ Division of Workforce Regulation & Safety Professional Regulation Unit/Prevailing Wage Section 1511 Pontiac Avenue Building 70, P.O. Box 20247 Cranston, RI 02920-0943

Rhode Island Certified Prevailing Wage Daily Log

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* Each contractor working on this project must complete a Daily Log for their employees only. DLT is an equal opportunity employer/program - auxiliary aids and services available upon request. TTY via RI Relay: 711
DLT-WRS-4 (10/14)

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Il Department of Labor and Training - Division of Workforce Regulation & Safety Professional Regulation Unit/Prevailing Wage Section

511 Pontiac Avenue Building 70, P.O. Box 20247 Cranston, RI 02920-0943

Rhode Island Certified Weekly Payroll

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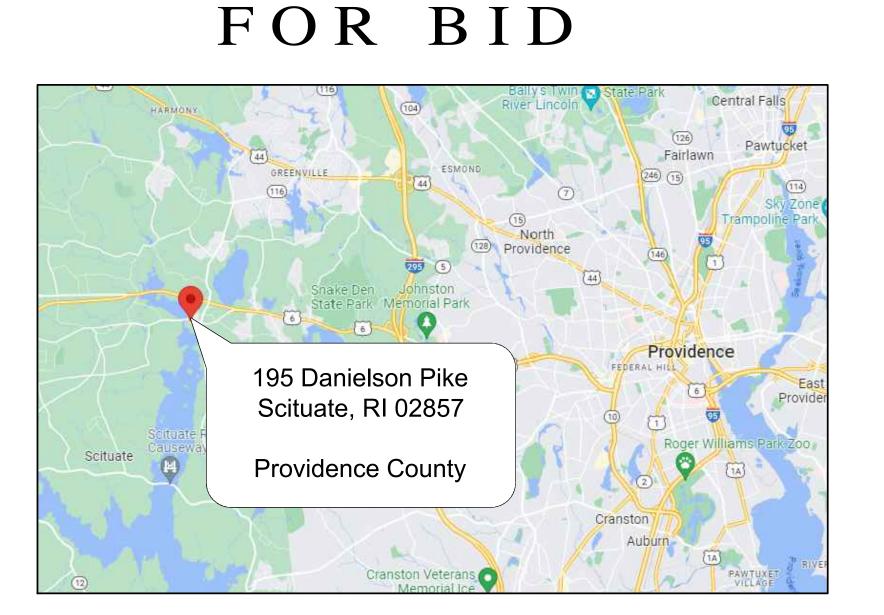
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Legend: P.S.=Provaling Wage Standard Hours P.O.=Prevaling Wage Overtime Hours R.O.=Regular Hours R.O.=Regular Overtime Hours APS=Additional PW Standard Hours APO=Additional PW Overtime Hours List all PW Projects in APS/APO: DLT-WRS-1(Rev. 1/20)

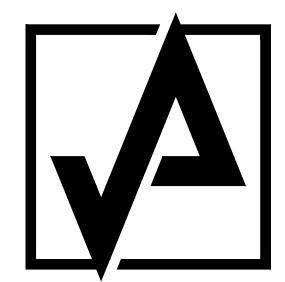
*Deductions listed in "Other" column:_

SCITUATE TOWN HALL ADDITION/ RENOVATIONS

195 DANIELSON PIKE SCITUATE, RHODE ISLAND 02857 PROVIDENCE COUNTY OCTOBER 27, 2023



PROJECT DESIGN BY:



AHARONIAN & ASSOCIATES, INC. ARCHITECTS

310 George Washington Highway

Smithfield, Rhode Island 02917

> T: 401-232-5010 F: 401-232-5080

WWW.ARCH-ENG.COM

CONSULTANTS:

CROSSMAN ENGINEERING

CIVIL ENGINEER 151 CENTERVILLE ROAD MARWICK, RI 02886 TEL.(401)738-5660

DWD ENGINEERING, INC.

STRUCTURAL ENGINEER 5 MICHAEL ROAD EAST BRIDGEWATER, MA 02333

R.K.BAKER & ASSOC.

MECHANICAL / PLUMBING ENGINEER 316 POCASSET AVENUE, SUITE 203 PROVIDENCE, RI 02909

MCCLANAGHAN & ASSOC.

ELECTRICAL ENGINEERS 178 TREASURE ROAD NARRAGANSETT, RI - 02882



TED PRZYBYLA TOWN TREASURER TOWN OF SCITUATE 401-647-2547

ABBREVIATION INDEX

\$	AND	EXIS
@	AT	EXT
A/C	AIR CONDITIONING	FCB
AF	ABOVE FLOOR	FD
ALUM	ALUMINUM	FIN
ALT	ALTERNATE	FL
APPROX	APPROXIMATE	FO
BD	BOARD	FR
BG	BELOW GRADE	FΤ
BLDG	BUILDING	FURN
BM	BEAM	GA
BSMT BTWN	BASEMENT BETWEEN	GALV
BOT	BOTTOM	GYP E
C/L	CENTER LINE	HDMD
CT	CERAMIC TILE	HDR
CLG	CEILING	HM
CLO	CLOSET	HORIZ
CM	CONSTRUCTION MGR	HGT
CMU	CONC MASONRY UNIT	ID
COL	COLUMN	INSUL
CONC	CONCRETE	INT
CONT	CONTINUOUS	Ţ
CONST	CONSTRUCTION	KIT
DEPT	DEPARTMENT	LAM
DTL	DETAIL	LAV
DIA/Φ	DIAMETER	LT
DIM	DIMENSION	MAS
DISP	DISPENSER	MAX
DN	DOWN	MECH
DR	DOOR	MTL
DS	DOWNSPOUT	MANU
DMG	DRAWING	MIN
EA	EACH	MISC
EL	ELEVATION	MO
ELEC	ELECTRICAL	MTD
EQ	EQUAL	NIC

EQUIPMENT

EXIST TO REMAIN

EQUIP

ETR

EXISTING EXIST EXT EXTERIOR FIBER CEMENT BD FLOOR DRAIN FINISH FLOOR FACE OF FIRE RETARDANT FOOT FURN FURNITURE GAUGE GALVINIZED GYPSUM BOARD HDMD HARDWOOD HEADER HOLLOW METAL HORIZ HORIZONTAL INSIDE DIAMETER INSUL INSULATION INTERIOR TMIOL KITCHEN

LAMINATE

LAVATORY

MASONRY

MAXIMUM MECHANICAL

METAL

MINIMUM

MOUNTED

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NOMINAL

NO

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OPENING

PLATE

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RADIUS

REFRIGERATOR

ROUGH OPENING

SQUARE FOOT

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REVISION

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WATERPROOFING

WELDED WIRE FABRIC

MEIGHT

SQUARE

STEEL

STANDARD

STAINLESS STEEL

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EQUIPMENT TAG

PARTITION TYPE

AREAS NOT IN SCOPE

SLAB DEMO/INFILL

(XXX)

GRAPHIC SYMBOLS

INDEX OF DRAWINGS

DWG NO	DESCRIPTION
C1	SITE PLAN
CS0.1	CODE STUDY
CS0.2	EGRESS & OCCUPANCY DIAGRAMS
D0.1	DEMOLITION FOUNDATION & PARTIAL SLAB PENETRATION PLANS
D1.1	DEMOLITION 1ST FLOOR PLAN
D1.2	DEMOLITION 2ND FLOOR PLANS
D1.3	DEMOLITION FRAMING PLAN
D1.4	DEMOLITION ROOF PLAN
D3.1	DEMOLITION ELEVATIONS
A1.1	1ST FLOOR PLAN
A1.2	2ND FLOOR PLAN
A1.3	1ST FLOOR FLOOR FINISH PLAN
A1.4	2ND FLOOR FLOOR FINISH PLAN
A1.5	1ST FLOOR REFLECTED CEILING PLAN & SCHEDULE
A1.6	2ND FLOOR REFLECTED CEILING PLAN & SCHEDULE
A1.7	ROOF PLAN & DETAILS
A2.1	DOOR & STOREFRONT SCHEDULE & DTLS
A3.1	EXTERIOR ELEVATIONS & SCHEDULE
A4.1	BUILDING SECTIONS
A4.2 A4.3	WALL SECTIONS WALL SECTIONS
A4.3 A4.4	WALL SECTIONS WALL SECTIONS
A4.4 A4.5	RAMP & LANDING SECTIONS
A4.5 A4.6	STAIR SECTIONS
A4.7	ENLARGED STAIR PLAN & DETAIL
A4.8	ENLARGED RAMP PLAN & DETAIL
A5.1	DETAILS
A5.2	ROOF DETAILS
A6.1	INTERIOR ELEVATIONS
A6.2	INTERIOR ELEVATIONS, SCHEDULES & DETAILS
S0.1	STRUCTURAL NOTES
S1.1	FOUNDATION PLAN
S1.2	FOUNDATION DETAILS
S1.3	FLOOR FRAMING PLANS & DETAILS
S1.4	ROOF FRAMING PLAN
MPD1.0	MECHANICAL & PLUMBING DEMOLITION
M1.1	PLANS, NOTES & SCHEDULES MECHANICAL
M2.1	MECHANICAL SPECIFICATIONS
P1.1	PLANS, DETAILS & SCHEDULES PLUMBING
E1.1	ELECTRICAL DEMOLITION CONDITIONS PLAN
E2.1	LIGHTING AND ELECTRICAL PLANS
E3.1	ELECTRICAL LIFE SAFETY PLANS
E4.1	ELECTRICAL SPECIFICATIONS

GENERAL NOTES 1. ALL EXISTING UTILITIES HAVE BEEN PLOTTED BASED UPON BEST AVAILABLE INFORMATION AND REPRESENT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH "DIG SAFE PROGRAM LAW" ENACTED BY THE RHODE ISLAND LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY MUNICIPALITY, STATE OR FEDERAL AGENCY THAT MAY APPLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. A MINIMUM ADVANCE NOTICE OF 72 HOURS IS REQUIRED PRIOR TO START OF CONSTRUCTION. 2. SPECIFICATIONS TO GOVERN THIS PROJECT ARE R.I.D.O.T. STANDARD INSTALLATION, SPECIFICATIONS AND DETAILS. FOR ALL EXCAVATION, PLACEMENT OF FILL, PIPE BITUMINOUS PAVEMENT, CUTTING INTO CATCHBASIN/MANHOLES, CONCRETE AND SAWCUTTING. THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2022 EDITION, WITH LATEST REVISIONS UNLESS OTHERWISE SHOWN ON PLANS. THE "METHOD OF MEASUREMENT" AND "BASIS OF PAYMENT" ARE NOT APPLICABLE. 3. THE CONTRACTOR MUST VERIFY PRIOR TO CONSTRUCTION THAT ALL REQUIRED AUTHORIZATION TO PERFORM WORK HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES. 4. WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS, SPECIFICATIONS OR PAYMENT ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE. THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTABLE TO THE ENGINEER. 5. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY WORK. 6. ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN OR OTHERWISE INSTRUCTED IN WRITING BY THE OWNER. 7. CONTRACTOR SHALL EXCAVATE TEST PITS TO CONFIRM UTILITY LOCATIONS/ELEVATIONS AT POTENTIAL CONFLICT POINTS (UTILITY/DRAIN CROSSINGS). 8. THE CONTRACTOR SHALL USE CARE WHEN WORKING NEAR UTILITY POLES AND WIRING SO AS TO NOT DISTURB ELECTRICAL/TELEPHONE/CABLE SERVICE TO THE CUSTOMERS. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THESE SERVICES AT ALL TIMES. 9. THE CONTRACTOR SHALL, AT NO ADDITIONAL EXPENSE, BRACE UTILITY POLES IF REQUIRED, AND REPAIR ANY DAMAGE TO EXISTING UTILITIES, SIDEWALKS, GUARDRAILS, CURBS, PAVING, SHRUBS, TREES, STONE WALLS, LAWNS, ETC.

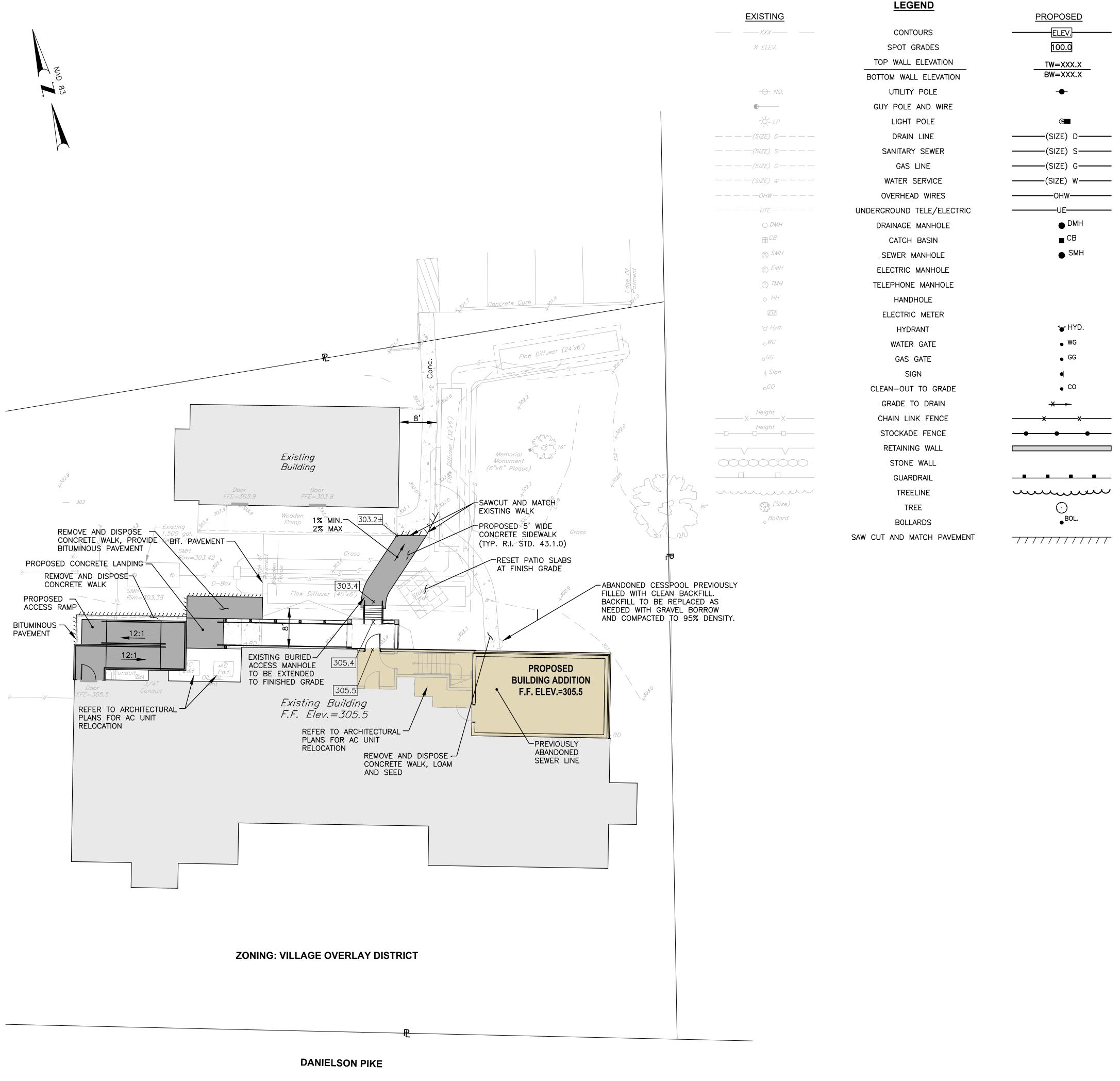
- 10. CHANGE ORDERS MAY ONLY BE APPROVED FOR PAYMENT BY THE OWNER.
- 11. ALL OPEN EXCAVATIONS SHALL BE ADEQUATELY SAFEGUARDED BY PROVIDING TEMPORARY BARRICADES, CAUTION SIGNS, LIGHTS AND OTHER MEANS TO PREVENT ACCIDENTS TO PERSONS AND DAMAGE TO PROPERTY. THE CONTRACTOR SHALL AT NO ADDITIONAL EXPENSE TO THE OWNER, PROVIDE SUITABLE AND SAFE CONDITIONS AT ALL AREAS OF THE WORK SITE AND SHALL PROVIDE SAFE VEHICULAR AND PEDESTRIAN ACCESS AROUND ALL WORK AREAS.
- 12. ALL STRUCTURES AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE TOWN OF SCITUATE DEPARTMENT OF PUBLIC WORKS. ALL EXCAVATION, BACKFILL AND RESTORATION WORK SHALL MEET THE CITY'S SPECIFICATIONS.
- 13. THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN. ALL EXISTING UTILITY LOCATIONS AND FLEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.
- 13. THE CONTRACTOR IS REQUIRED TO MAINTAIN DETAILED AS-BUILT INFORMATION FOR ALL UTILITY INSTALLATIONS. AS-BUILT INFORMATION MUST INCLUDE MATERIAL LIST. PIPE DEPTH AND SWING TIE LOCATIONS (2 MINIMUM) FROM NEW PIPE TO BUILDING CORNERS. ALL PIPE BEND/ELBOW LOCATIONS SHALL BE DIMENSIONED. FINAL PAYMENT WILL NOT BE MADE UNTIL SUITABLE AS-BUILT DATA IS PROVIDED.

NOTES:

- 1. EXISTING FLOW DIFFUSERS HAVE APPROXIMATELY 1' OF COVER.
- 2. ALL DISTURBED AREAS ARE TO RECEIVE 6" LOAM AND SEED AND URI #2 SEED MIX.
- 3. CONCRETE SIDEWALK SHALL HAVE A 2% CROSS SLOPE AND BE INSTALLED FLUSH WITH ADJACENT PROPOSED GRADES.
- 4. THE SIDEWALK SHALL BE GRADED TO PREVENT PONDING OF ANY RUNOFF ON OR ADJACENT TO THE SIDEWALK.
- 5. REFER TO ARCHITECTURAL PLANS FOR LANDINGS AND RAMPS.
- 6. SILT SOCK OF SILT FENCE SHALL BE INSTALLED AROUND THE WORK AREA TO CONTROL SEDIMENT.
- 7. PROPERTY LINE SHOWN IS APPROXIMATE.
- 8. SITE IS NOT WITHIN 100 YEAR FLOOD ZONE AS SHOWN ON FEMA MAP 44007C0280G, 03/02/09.

BITUMINOUS PAVEMENT STRUCTURE

- 2" SURFACE COARSE 2" BITUMINOUS BASE
- 8" GRAVEL BASE
- ALL PAVEMENT IS TO BE GRADED TO DRAIN, MAX SLOPE = 2%.





CROSSMAN ENGINEERING

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KEY PLAN

PROJECT TITLE:

PROPOSED BUILDING ADDITION

SCITUATE TOWN HALL PLAT MAP19, LOT42 **ZONING DISTRICT: RS-120 195 DANIELSON PIKE NORTH SCITUATE, RI**

PREPARED FOR:

195-197 DANIELSON PIKE NORTH SCITUATE. RI 02857

DRAWING TITLE:

SITE PLAN

1"=10' OCTOBER 2023 DWG. NAME:

2611-C01-SITE-2.dwg

REVISIONS

NUMBERREMARKS DATE

DRAWING NUMBER

GRAPHIC SCALE (IN FEET) 1 inch = 10 ft.

								01005 - ADMINISTRATIVE REQUIREMENTS		
CODE ANALY	1515									OIOO5-I: REFERENCE
APPLICABLE BUILDING CO	DDE				DE (REF: INTERNA					A. THESE SPECIFICATIONS ARE TO SERVE AS A SUPPLEMENT TO ALL OTHER DRAWINGS. WHERE THERE IS A CONFLICT IN REQUIREMENTS OF THOSE DRAWINGS, THE MOST
APPLICABLE PLUMBING CO					PING AND FIRE CO PDE (REF: INTERN					STRINGENT OR PROHIBITIVE SHALL APPLY. B. AIA GENERAL CONDITIONS (A201) ARE HEREBY INCORPORATED INTO THE CONTRACT
APPLICABLE MECHANICAL APPLICABLE ELECTRICAL					CODE (REF: INTE					DOCUMENTS BY REFERENCE.
APPLICABLE ENERGY COI									TION CODE, 2018 EDITION)	Oloo5-2: SECTION INCLUDES
APPLICABLE GAS CODE APPLICABLE FIRE CODE					: INTERNATIONAL HE NATIONAL FIRE				1), 2018 EDITION)	A. CODES, RULES AND REGULATIONS B. CONTRACTOR USE OF PREMISES
APPLICABLE LIFE SAFETY	CODE RI	<u> </u>						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	C. TEMPORARY FACILITIES
APPLICABLE ACCESS CO: PROJECT SUMMARY		NSI 1171-1 2 <i>00</i> JBJECT BUILD		EXISTING 2-S	TORY; TYPE 5B C	ONSTRUCTION				D. COORDINATION
		ROJECT SCOF KISTING OCCU			ALTERATIONS TO	TOWN HALL				E. FIELD ENGINEERING
BASIC BUILDING CHARACT	TERISTICS			TOTAL AREA			ea (tomn ha Ruare feet	LL)		F. EXISTING UTILITIES AND STRUCTURES
2nd FLOOR AREA				3,407± SQUA			JARE FEET			G. CONTRACTOR QUALITY CONTROL H. DELIVERY, HANDLING AND STORAGE OF MATERIALS
BASEMENT AREA USE OR OCCUPANCY CLAS	SSIFICATIO	N (CHAPTER S	3)	822± SQUAR	E FEET	822± SQU	ARE FEET			I. PROTECTION OF INSTALLED WORK
NUMBER OF FLOORS ABO				2	3F FFF-	F 447+ C 6	UARE FEET			J. SUBMITTALS
TOTAL SQUARE FOOTAGE		N		8,519± SQUAF B OCCUPANO	CY (BUSINESS)	5,94 11 50	UARE FEET			K. SUBSTITUTIONS
GENERAL BUILDING HEIGHT BUILDING HEIGHT ALLO	•				ER 5) ASSIFICATION,		ALLOWA	RIE PE	ROPOSED	L. PROJECT CLOSEOUT
(SECTION 504) NON-	-SPRINKLER	RED BLDG. (TA								OIOO5-3: CODES, RULES, REGULATIONS A. SEE THIS SHEET.
- ,-	USINESS)	PEA PER OCC	HPANCY C	I ASSIFICATION	ON, NON-SPRINKLE	EPED BLDG	40 F		24'- <i>0</i> ½"± (ETR) 	OIOO5-4: CONTRACTOR USE OF PREMISES
	3LE 506.2)	CLA FER OCC			ON, NON-OF KINKEL	INDU DEDU.	ALLONA		OTAL)	A. WORK BEING PERFORMED UNDER SEPARATE CONTRACTS WITH THE OWNER COULD BE
CONSTRUCTION TYPE (CHA	USINESS)						9,000	SF 8	3,519± SF	CONCURRENT WITH WORK UNDER THIS CONTRACT. COORDINATE WORK UNDER THIS CONTRACT, SUCH AS SEQUENCE AND ACCESS WITH OTHER SEPARATE CONTRACTORS AS DIRECTED BY THE OWNER.
CONSTRUCTION TYPE	5E	3 COMBUSTIBL								B. LIMIT USE OF PREMISES FOR WORK AND FOR CONSTRUCTION OPERATIONS AND TO
CONSTRUCTION REQUIREM STRUCTURAL FRAME		PTER 6 AND T ABLE 601	1)				Ţ	O HOUR		ALLOW FOR WORK BY OTHER CONTRACTORS. OIOO5-5: TEMPORARY FACILITIES
BEARING EXTERIOR WALL			ISTANCE 6	REATER THA	N 30 FEET (TABL	E 602)		O HOUR		OIOO5-5: TEMPORARY FACILITIES A. CONTRACTOR IS TO LIMIT ITS ENTIRE WORK FORCE TO THE BUILDING AND IMMEDIATE
EXTERIOR WALL OPENING			OF UNPRO	OTECTED EXT	WALL OPENINGS	(TABLE 705.8	3)	NO LIMI		SITE.
FLOOR CONSTRUCTION ROOF CONSTRUCTION		ABLE 601						O HOUR		I. CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES FOR ITS USE ON THE SITE, INCLUDING TEMPORARY OFFICE AND SANITARY FACILITIES.
INTERIOR FINISHES (CHAP										B. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR PERFORMANCE OF THE WORK.
FINISH REQMNTS (TABLE &			LOSED SP	ACES (NON-SP	RINKLERED / OCCU	PANCY B (BUS	NESS)	CLASS C	OR BETTER	OIOO5-6: COORDINATION
FIRE PROTECTION SYSTEM AUTOMATIC SPRINKLER ST	· · · · · · · · · · · · · · · · · · ·		RINKLER S	YSTEM REQU	REMENT PER FIRE	E AREA LIMIT	ATION			A. COORDINATE THE WORK TO ASSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING
(SECTION 903)		CCUPANCY B	(BUSINESS,)	NOT REQUIRED					ITEMS INSTALLED LATER.
MEANS OF EGRESS (CHAFEXIT ACCESS TRAVEL DIS	STANCE EX	KIT ACCESS M				'		•	BLE 1017.21) 33'-10" (CONFORMS)	B. VERIFY CHARACTERISTICS OF ELEMENTS OF INTERRELATED OPERATING EQUIPMENT ARE COMPATIBLE; COORDINATE WORK HAVING INTERDEPENDENT RESPONSIBILITIES FOR INSTALLING, CONNECTING TO AND PLACING IN SERVICE SUCH EQUIPMENT.
OCCUPANCY CAPACITY O OCCUPANCY CLASSIFICATION	1	NCY LOAD	EGRES	OMN HALL ON S WIDTH D5.3.2)	# OF EXITS REG (TABLE 1006.3.2 # OF EXITS PRO	2) /	EXIT SEPAR	RATION > :	SS (1007.1.1) BLDG. DIAG X 1/2 S NOT EQUIPPED WITH	C. COORDINATE SPACE REQUIREMENTS AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WHICH ARE INDICATED DIAGRAMMATICALLY ON DRAWINGS. FOLLOW ROUTING SHOWN FOR PIPES, DUCTS AND CONDUITS AS CLOSELY AS PRACTICABLE; MAKE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, FOR MAINTENANCE AND FOR REPAIRS.
			STAIRS	DOORS				TIC SPRI	NKLER SYSTEM	D. IN FINISHED AREAS, CONCEAL PIPES, DUCTS AND WIRING IN THE CONSTRUCTION. COORDINATE LOCATIONS OF FIXTURES AND OUTLETS WITH FINISH ELEMENTS.
Ist FLOOR ACCESSORY STORAGE	ITY ROOMS - 3 OCCURANTS			E. EXECUTE CUTTING AND PATCHING TO INTEGRATE ELEMENTS OF WORK, UNCOVER						
AREAS, UTILITY ROOMS OFFICE AREA	= 3 OCCUI	PANTS 150 GROSS	N/A	32" MIN 15 × .2" = 3"	# OF EXITS PRO	, ,	st FLOOR 86'-9"x /2=	1'-9"x1/2= (CONFORMS)		ILL-TIMED, DEFECTIVE AND NON-CONFORMING WORK, PROVIDE OPENINGS FOR PENETRATIONS OF EXISTING SURFACES AND PROVIDE SAMPLES FOR TESTING. SEAL PENETRATIONS THROUGH FLOORS, WALLS AND CEILINGS.
	= 15 0001	JPANT		36" MIN	2nd FLOOR # OF EXITS REQ	'D = 2	43'-5" MIN 2nd FL <i>OO</i> R			OIOO5-7: FIELD ENGINEERING
Ist FLOOR TOTAL 2nd FLOOR	18 OCCUP	ANTS			(MAX OCCUP LO # OF EXITS PRO	AD = 500) /	83'-2"×1/2= 41'-7" MIN	=	52'-1" (CONFORMS)	A. CONTRACTOR SHALL PROVIDE FIELD ENGINEERING SERVICES REQUIRED TO ESTABLISH GRADES, LINES AND LEVELS BY USE OF RECOGNIZED ENGINEERING SURVEY PRACTICES.
ACCESSORY STORAGE		300 GR055	N/A	2 × .2" = 0.4"						B. CONTRACTOR SHALL ESTABLISH AND VERIFY ALL REQUIRED BENCH MARKS, GRADES,
AREAS, UTILITY ROOMS OFFICE AREA	= 2 OCCUI	150 GR055	N/A	32" MIN 12 × .2" = 2.4" 36" MIN	_					LINES AND LEVELS AND DIMENSIONS SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK. INCONSISTENCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO START OF WORK.
2nd FLOOR TOTAL	14 OCCUP	ANTS								C. CONTRACTOR SHALL NOT DEVIATE FROM ESTABLISHED GRADES AND LINES, EXCEPT BY WRITTEN APPROVAL OF THE ARCHITECT OR IF OBVIOUS ERROR EXISTS IN DESIGNATED GRADES AND LINES.
BASEMENT ACCESSORY STORAGE			3 X .3" = 0.9	1" 3 × .2" = 0.6"	-					D. CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING OUT THE BUILDING ADDITION ON THE SITE, AS WELL AS THE ENTIRE LAYOUT OF ALL SITE IMPROVEMENTS, UTILITIES,
AREAS, UTILITY ROOMS BASEMENT TOTAL	= 3 OCCUPA	, ,,,,,	44" MIN	32" MIN	-					THE SITE, AS WELL AS THE ENTIRE LAYOUT OF ALL SITE IMPROVEMENTS, UTILITIES, GRADING, LANDSCAPING AND SIMILAR ITEMS AS REQUIRED TO COMPLETE THE WORK.
TOWN HALL TOTAL	35 OCCUF				_					01005-8: EXISTING UTILITIES
STAIRWAY FIRE RESISTAN	1	WHERE CON	NECTING		I HOUR					A. CONTRACTOR SHALL BE RESPONSIBLE FOR INJURY TO ANY UTILITY PIPING, ELECTRICAL WIRING AND CONDUITS, BUILDINGS AND OTHER STRUCTURES THAT MAY BE MET WITHIN THE PROSECUTION OF THE WORK. CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGES TO
RATING (1023.2)		LESS THAN		5						PROSECUTION OF THE WORK. CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGES TO ITEMS RESULTING FROM WORK OF THIS CONTRACTOR.
MINIMUM REQUIRED EGRES EGRESS WIDTH PER OCCU		5.3.2)	SEE CALC	CULATIONS A	BOVE					OIOO5-9: CONTRACTOR QUALITY ASSURANCE/CONTROL OF INSTALLATION
EXIT PASSAGEWAY (1024.	.2)		MINIMUM M	NIDTH = 36" (OCCUPANT LOAD	< 5 <i>0</i>)				A. MONITOR QUALITY CONTROL OVER SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS AND WORKMANSHIP.
STAIRWAYS (1009.3)	_				EN HANDRAILS =	NDRAILS = 48"				B. COMPLY FULLY WITH MANUFACTURERS' INSTRUCTIONS INCLUDING EACH STEP IN SEQUENCE.
EGRESS DOOR (IOIO.I.I)	- ATION · · ·		32" CLEA		- CTDI Z = E = 2 - 2	122 ESITION (CUA STE :-	GEATING.	1004.07	C. SHOULD MANUFACTURERS' INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.
RISRC-I STATE REHABILIT ALTERATIONS: ELEVATOR			-L CODE F	UR EXISTING	, diruciures, 20	ZZ EVIION (I	unafiek 10 <u>,</u>	JEC HON	1007.0/	D. COMPLY WITH SPECIFIED STANDARDS AS A MINIMUM QUALITY FOR THE WORK EXCEPT WHEN MORE STRINGENT TOLERANCES, CODES OR SPECIFIED REQUIREMENTS INDICATE
1004.1. THIS SECTION DOE HAS LESS THAN 3,0005QI MALL, THE PROFESSIONAL TRANSPORTATION, OR AN	UARE FEET _ OFFICE O	PER STORY, F A HEALTH (EXCEPT W CARE PRO	ITH RESPECT VIDER, A TE	TO ANY FACILITY	THATHOUSES	S A SHOPPIN	G CENTER	R, A SHOPPING	HIGHER STANDARDS OR MORE PRECISE WORKMANSHIP. E. PERFORM WORK BY PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.
PLUMBING FIXTURES (CHAI										F. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSES, VIBRATION, PHYSICAL DISTORTION OR DISFIGUREMENT.
NUMBER OF	CATION FI	IXTURE TYPE		MIN. REQUI	RED C	CCUPANTS	FIXTURES	REQUIRE	D FIXTURES PROVIDED	Oloo5-10: DELIVERY, HANDLING AND STORAGE OF MATERIALS
FIXTURES REQUIRED B (BUSINES		IATER CLOSE	тѕ	I PER 25 FOR	11121121204 3	5	2		2 UNISEX	A. PRODUCTS: MEANS NEW MATERIAL, MACHINERY, COMPONENTS, EQUIPMENT, FIXTURES AND
		ACH SEX AVATORIES E	ACH SEX		THE REMAINDER THE FIRST 80 \$ 3	5			2 UNISEX	SYSTEMS FORMING THE WORK. DOES NOT INCLUDE MACHINERY AND EQUIPMENT USED FOR PREPARATION, FABRICATION, CONVEYING AND ERECTION OF THE WORK. PRODUCTS MAY ALSO INCLUDE EXISTING MATERIALS OR COMPONENTS REQUIRED FOR REUSE.
UNISEX RESTROOM EXCEP				I PER 80 FOR	THE REMAINDER		00312-6 1	т		B. TRANSPORTATION AND HANDLING
LEAST ONE ACCESSIBLE	RESTROOM	MUST BE PRO	OVIDED FO	OR EACH SEX	OR ONE SINGLE	UNISEX REST	ROOM. (CONF			I. TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.
C301.1 GENERAL - CLIMAT		TION CODE 20	DIB W/RIA	AMENDMENTS	- FOR NEW CONS	TRUCTION ON	LY			2. PROMPTLY INSPECT SHIPMENTS TO ASSURE THAT PRODUCTS COMPLY WITH
BUILDING ENVELOPE REQU		- OPAQUE AS		•	2.1.3, C402.1.4)					REQUIREMENTS, QUANTITIES ARE CORRECT AND PRODUCTS ARE UNDAMAGED.
ROOF - ATTIC			REQ1	UIRED 3			PROVIDED 2-38			3. PROVIDE EQUIPMENT AND PERSONNEL TO HANDLE PRODUCTS BY METHODS TO PREVENT SOILING, DISFIGUREMENT OR DAMAGE.
WALLS, ABOVE GRADE -				+ R-3.8ci OF			R-2 BATT INS			C. STORAGE AND PROTECTION
SLAB-ON-GRADE FLOORS OPAQUE DOORS - SWINGI		LU DLABS		P FOR 24" BE ALUE = 0.37 N			R-10 VERT FR -VALUE = 0.:		B TO TOP OF FOOTING	I. STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE. STORE SENSITIVE
BUILDING ENVELOPE REQU		- FENESTRAT	,,,,,	E C402.4) ALUE = 0.38 1			-VALUE = 0.:	37		PRODUCTS IN WEATHER-TIGHT, CLIMATE CONTROLLED ENCLOSURES. 2. ARRANGE STORAGE OF PRODUCTS TO PERMIT ACCESS FOR INSPECTION.
NEW WINDOW ASSEMBLIES PROJECTION FACTOR (O			F		МАХ X (SEW) 0.51 (N)		-VALUE = 0.: HGC = 0.32	- 1		2. ARRANGE STORAGE OF PRODUCTS TO PERMIT ACCESS FOR INSPECTION. PERIODICALLY INSPECT TO ASSURE PRODUCTS ARE UNDAMAGED AND ARE MAINTAINED UNDER SPECIFIED CONDITIONS.
ENTRANCE DOOR PROJECTION FACTOR (O	2.2		- · · ·	ALUE = 0.77 N	1AX X (SEW) 0.51 (N)		-VALUE = 0.3 6HGC = 0.32	37		
1				- U.JU MA.	, , (JEYY U.JI (IN)	١٤	0.52			

01005 - ADMINISTRATIVE REQUIREMENTS

05-1: REFERENCE

- THESE SPECIFICATIONS ARE TO SERVE AS A SUPPLEMENT TO ALL OTHER DRAWINGS. WHERE THERE IS A CONFLICT IN REQUIREMENTS OF THOSE DRAWINGS, THE MOST STRINGENT OR PROHIBITIVE SHALL APPLY.
- AIA GENERAL CONDITIONS (A201) ARE HEREBY INCORPORATED INTO THE CONTRACT DOCUMENTS BY REFERENCE.

05-2: SECTION INCLUDES

- CODES, RULES AND REGULATIONS
- CONTRACTOR USE OF PREMISES
- TEMPORARY FACILITIES
- COORDINATION
- FIELD ENGINEERING
- EXISTING UTILITIES AND STRUCTURES
- DELIVERY, HANDLING AND STORAGE OF MATERIALS
- PROTECTION OF INSTALLED WORK
- SUBMITTALS
- SUBSTITUTIONS
- PROJECT CLOSEOUT

05-3: CODES, RULES, REGULATIONS

SEE THIS SHEET.

05-4: CONTRACTOR USE OF PREMISES

- WORK BEING PERFORMED UNDER SEPARATE CONTRACTS WITH THE OWNER COULD BE CONCURRENT WITH WORK UNDER THIS CONTRACT. COORDINATE WORK UNDER THIS CONTRACT, SUCH AS SEQUENCE AND ACCESS WITH OTHER SEPARATE CONTRACTORS AS DIRECTED BY THE OWNER.
- LIMIT USE OF PREMISES FOR WORK AND FOR CONSTRUCTION OPERATIONS AND TO ALLOW FOR WORK BY OTHER CONTRACTORS.

05-5: TEMPORARY FACILITIES

- CONTRACTOR IS TO LIMIT ITS ENTIRE WORK FORCE TO THE BUILDING AND IMMEDIATE
- CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES FOR ITS USE ON THE SITE, INCLUDING TEMPORARY OFFICE AND SANITARY FACILITIES.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR PERFORMANCE OF THE WORK.

05-6: COORDINATION

- COORDINATE THE WORK TO ASSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING ITEMS INSTALLED LATER.
- VERIFY CHARACTERISTICS OF ELEMENTS OF INTERRELATED OPERATING EQUIPMENT ARE COMPATIBLE; COORDINATE WORK HAVING INTERDEPENDENT RESPONSIBILITIES FOR INSTALLING, CONNECTING TO AND PLACING IN SERVICE SUCH EQUIPMENT.
- COORDINATE SPACE REQUIREMENTS AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WHICH ARE INDICATED DIAGRAMMATICALLY ON DRAWINGS. FOLLOW ROUTING SHOWN FOR PIPES, DUCTS AND CONDUITS AS CLOSELY AS PRACTICABLE; MAKE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, FOR MAINTENANCE AND FOR REPAIRS.
- IN FINISHED AREAS, CONCEAL PIPES, DUCTS AND MIRING IN THE CONSTRUCTION. COORDINATE LOCATIONS OF FIXTURES AND OUTLETS WITH FINISH ELEMENTS.
- EXECUTE CUTTING AND PATCHING TO INTEGRATE ELEMENTS OF WORK, UNCOVER ILL-TIMED, DEFECTIVE AND NON-CONFORMING WORK, PROVIDE OPENINGS FOR PENETRATIONS OF EXISTING SURFACES AND PROVIDE SAMPLES FOR TESTING. SEAL PENETRATIONS THROUGH FLOORS, WALLS AND CEILINGS.

05-7: FIELD ENGINEERING

- CONTRACTOR SHALL PROVIDE FIELD ENGINEERING SERVICES REQUIRED TO ESTABLISH GRADES, LINES AND LEVELS BY USE OF RECOGNIZED ENGINEERING SURVEY PRACTICES.
- CONTRACTOR SHALL ESTABLISH AND VERIFY ALL REQUIRED BENCH MARKS, GRADES, LINES AND LEVELS AND DIMENSIONS SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK. INCONSISTENCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO START OF WORK.
- CONTRACTOR SHALL NOT DEVIATE FROM ESTABLISHED GRADES AND LINES, EXCEPT BY WRITTEN APPROVAL OF THE ARCHITECT OR IF OBVIOUS ERROR EXISTS IN DESIGNATED GRADES AND LINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING OUT THE BUILDING ADDITION ON THE SITE, AS WELL AS THE ENTIRE LAYOUT OF ALL SITE IMPROVEMENTS, UTILITIES, GRADING, LANDSCAPING AND SIMILAR ITEMS AS REQUIRED TO COMPLETE THE WORK.

05-8: EXISTING UTILITIES

05-9: CONTRACTOR QUALITY ASSURANCE/CONTROL OF INSTALLATION

- MONITOR QUALITY CONTROL OVER SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS AND WORKMANSHIP.
- COMPLY FULLY WITH MANUFACTURERS' INSTRUCTIONS INCLUDING EACH STEP IN SEQUENCE.
- SHOULD MANUFACTURERS' INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.
- COMPLY WITH SPECIFIED STANDARDS AS A MINIMUM QUALITY FOR THE WORK EXCEPT WHEN MORE STRINGENT TOLERANCES, CODES OR SPECIFIED REQUIREMENTS INDICATE HIGHER STANDARDS OR MORE PRECISE WORKMANSHIP.
- PERFORM WORK BY PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED
- TO WITHSTAND STRESSES, VIBRATION, PHYSICAL DISTORTION OR DISFIGUREMENT. 05-10: DELIVERY, HANDLING AND STORAGE OF MATERIALS
- PRODUCTS: MEANS NEW MATERIAL, MACHINERY, COMPONENTS, EQUIPMENT, FIXTURES AND SYSTEMS FORMING THE WORK. DOES NOT INCLUDE MACHINERY AND EQUIPMENT USED FOR PREPARATION, FABRICATION, CONVEYING AND ERECTION OF THE WORK. PRODUCTS MAY ALSO INCLUDE EXISTING MATERIALS OR COMPONENTS REQUIRED FOR REUSE.
- TRANSPORTATION AND HANDLING
- TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.
- 2. PROMPTLY INSPECT SHIPMENTS TO ASSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS, QUANTITIES ARE CORRECT AND PRODUCTS ARE UNDAMAGED.
- 3. PROVIDE EQUIPMENT AND PERSONNEL TO HANDLE PRODUCTS BY METHODS TO PREVENT SOILING, DISFIGUREMENT OR DAMAGE.
- STORAGE AND PROTECTION
- STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE. STORE SENSITIVE PRODUCTS IN WEATHER-TIGHT, CLIMATE CONTROLLED ENCLOSURES.
- 2. ARRANGE STORAGE OF PRODUCTS TO PERMIT ACCESS FOR INSPECTION. PERIODICALLY INSPECT TO ASSURE PRODUCTS ARE UNDAMAGED AND ARE MAINTAINED UNDER SPECIFIED CONDITIONS.

01005-11: PROTECTION OF INSTALLED WORK

- A. PROTECT INSTALLED WORK AND PROVIDE SPECIAL PROTECTION AS REQUIRED.
- B. PROVIDE TEMPORARY AND REMOVABLE PROTECTION FOR INSTALLED PRODUCTS. CONTROL ACTIVITY IN IMMEDIATE WORK
- AREA TO MINIMIZE DAMAGE. C. PROVIDE PROTECTIVE COVERINGS AT WALLS, PROJECTIONS,
- JAMBS, SILLS AND SOFFITS OF OPENINGS.

D. PROTECT FINISHED FLOORS AND OTHER SURFACES FROM TRAFFIC, DIRT, WEAR, DAMAGE OR MOVEMENT OF HEAVY OBJECTS BY PROTECTING WITH DURABLE SHEET MATERIALS.

01005-12: SUBMITTALS - GENERAL

- A. THE CONTRACTOR MUST SUBMIT TO THE ARCHITECT FOR REVIEW AND APPROVAL, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES REQUIRED BY THE SUBMITTAL LIST OR AS DIRECTED BY THE ARCHITECT.
- B. SUBMIT TO THE ARCHITECT AS REQUIRED TO MAINTAIN PROJECT. ARCHITECT WILL RETAIN ONE COPY.

01005-13: SHOP DRAWING SUBMITTALS

- A. PRESENT IN A CLEAR AND THOROUGH MANNER. TITLE EACH DRAWING WITH PROJECT NAME AND NUMBER.
- B. IDENTIFY FIELD DIMENSIONS, SHOW RELATION TO ADJACENT OR CRITICAL FEATURES OR WORK OR PRODUCTS.
- C. NUMBER AND TYPE OF COPIES AS FOLLOWS:
- I. SUBMIT THE NUMBER OF COPIES WHICH THE CONTRACTOR REQUIRES, PLUS ONE COPY WHICH WILL BE RETAINED BY ARCHITECT.

D. CONTRACTOR REVIEW

- REVIEW SUBMITTALS PRIOR TO TRANSMITTAL DETERMINE AND VERIFY FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MANUFACTURER'S CATALOG NUMBERS AND CONFORMANCE WITH REQUIREMENTS OF CONTRACT
- 2. SIGN OR INITIAL EACH SHEET OF SHOP DRAWINGS AND PRODUCT DATA, AND EACH SAMPLE LABEL TO CERTIFY COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. NOTIFY ARCHITECT, IN WRITING, AT TIME OF SUBMITTAL, OF ANY DEVIATIONS FROM REQUIREMENTS OF CONTRACT DOCUMENTS. FAILURE TO DO SO WILL BE REASON FOR REJECTION FOR SUBMITTAL OR WORK IN PLACE.
- 3. DO NOT FABRICATE PRODUCTS TO BEGIN WORK WHICH REQUIRE SUBMITTALS WITH ARCHITECT APPROVAL.
- 4. REVISE AND RESUBMIT SUBMITTAL AS REQUIRED: IDENTIFY ALL CHANGES MADE SINCE PREVIOUS SUBMITTAL. FAILURE TO DO SO WILL BE REASON TO REJECT SUBMITTAL.

01005-14: PRODUCT DATA SUBMITTALS

- A. SUBMIT THE NUMBER OF COPIES WHICH THE CONTRACTOR REQUIRES PLUS ONE COPY WHICH WILL BE RETAINED BY THE ARCHITECT AND ONE COPY TO THE BUILDING DEPT.
- B. MARK EACH COPY OF DATA TO IDENTIFY PERTINENT PRODUCTS. SHOW REFERENCE STANDARDS, PERFORMANCE CHARACTERISTICS AND CAPACITIES, WIRING AND PIPING DIAGRAMS AND CONTROLS; COMPONENT PARTS; FINISHES; DIMENSIONS AND REQUIRED CLEARANCES.

MODIFY MANUFACTURER'S STANDARD SCHEMATIC DRAWINGS

AND DIAGRAMS TO SUPPLEMENT STANDARD INFORMATION AND

- TO PROVIDE INFORMATION SPECIFICALLY APPLICABLE TO THE WORK. DELETE INFORMATION NOT APPLICABLE. D. SUPPLEMENT MANUFACTURERS' STANDARD DATA TO PROVIDE
- INFORMATION UNIQUE TO THIS PROJECT.

01005-15: SUBSTITUTIONS

- A. SUBSTITUTIONS ARE NOT ALLOWED, EXCEPT AS FOLLOWS:
- I. SUBSTITUTE PRODUCTS SHALL NOT BE ORDERED OR INSTALLED WITHOUT PRIOR WRITTEN ACCEPTANCE.
- 2. ARCHITECT AND/OR OWNER HAS SOLE RIGHT OF DETERMINATION OF ACCEPTABILITY OF SUBSTITUTIONS.
- 3. A CONTRACTOR OR SUBCONTRACTOR WHO CARRIES THE COST OF A SUBSTITUTE IN IT'S BID WITHOUT PRIOR REVIEW BY THE ARCHITECT, DOES SO AT IT'S OWN RISK. THE OWNER IS NO WAY OBLIGATED TO REVIEW NOR ALLOW THAT A SPECULATIVE SUBSTITUTION BE FURNISHED.
- B. REQUESTS FOR SUBSTITUTIONS: SUBMIT SEPARATE REQUEST FOR EACH SUBSTITUTION. DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH REQUIREMENTS OF CONTRACT DOCUMENTS.

C. CONTRACTOR REPRESENTATION

- REQUEST FOR SUBSTITUTION CONSTITUTES A REPRESENTATION THAT CONTRACTOR HAS INVESTIGATED PROPOSED PRODUCT AND HAS DETERMINED THAT IT IS EQUAL TO OR SUPERIOR IN ALL RESPECTS TO SPECIFIED PRODUCT OR THAT THE COST REDUCTION OFFERED IS AMPLE JUSTIFICATION FOR ACCEPTING THE OFFERED SUBSTITUTION.
- 2. CONTRACTOR WAIVES CLAIMS FOR ADDITIONAL COSTS RELATED TO SUBSTITUTION WHICH MAY LATER BECOME

01005-16: PROJECT CLOSEOUT

- A. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT WHEN THE WORK IS SUBSTANTIALLY COMPLETE.
- THE ARCHITECT WILL MAKE AN INSPECTION TO DETERMINE THE STATUS OF COMPLETION. C. SHOULD THE ARCHITECT DETERMINE THAT THE WORK IS NOT

B. WITHIN A REASONABLE TIME AFTER RECEIPT OF SUCH NOTICE,

- SUBSTANTIALLY COMPLETE, ARCHITECT WILL PROMPTLY NOTIFY THE CONTRACTOR, GIVING THE REASONS THEREFORE. CONTRACTOR SHALL REMEDY THE DEFICIENCIES IN THE WORK AND NOTIFY THE ARCHITECT AND REQUEST REINSPECTION OF THE
- D. WHEN THE ARCHITECT CONCURS THAT THE WORK IS SUBSTANTIALLY COMPLETE, HE/SHE WILL PREPARE A CERTIFICATE OF SUBSTANTIAL COMPLETIONS, ACCOMPANIED BY
- A LIST OF ITEMS TO BE COMPLETED OR CORRECTED. E. SUBMITTALS REQUIRED FOR PROJECT CLOSEOUT SHALL INCLUDE:
- I. CERTIFICATE OF OCCUPANCY.
- 2. IN ADDITION TO THE WARRANTY AND GUARANTEE REQUIREMENTS OF THE GENERAL CONDITIONS, PROVIDE ALL OTHER GUARANTEES, BONDS, AFFIDAVITS AND CERTIFICATES REQUIRED THROUGHOUT THE SPECIFICATIONS.
- 3. CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS.
- 4. CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS.

END OF SECTION



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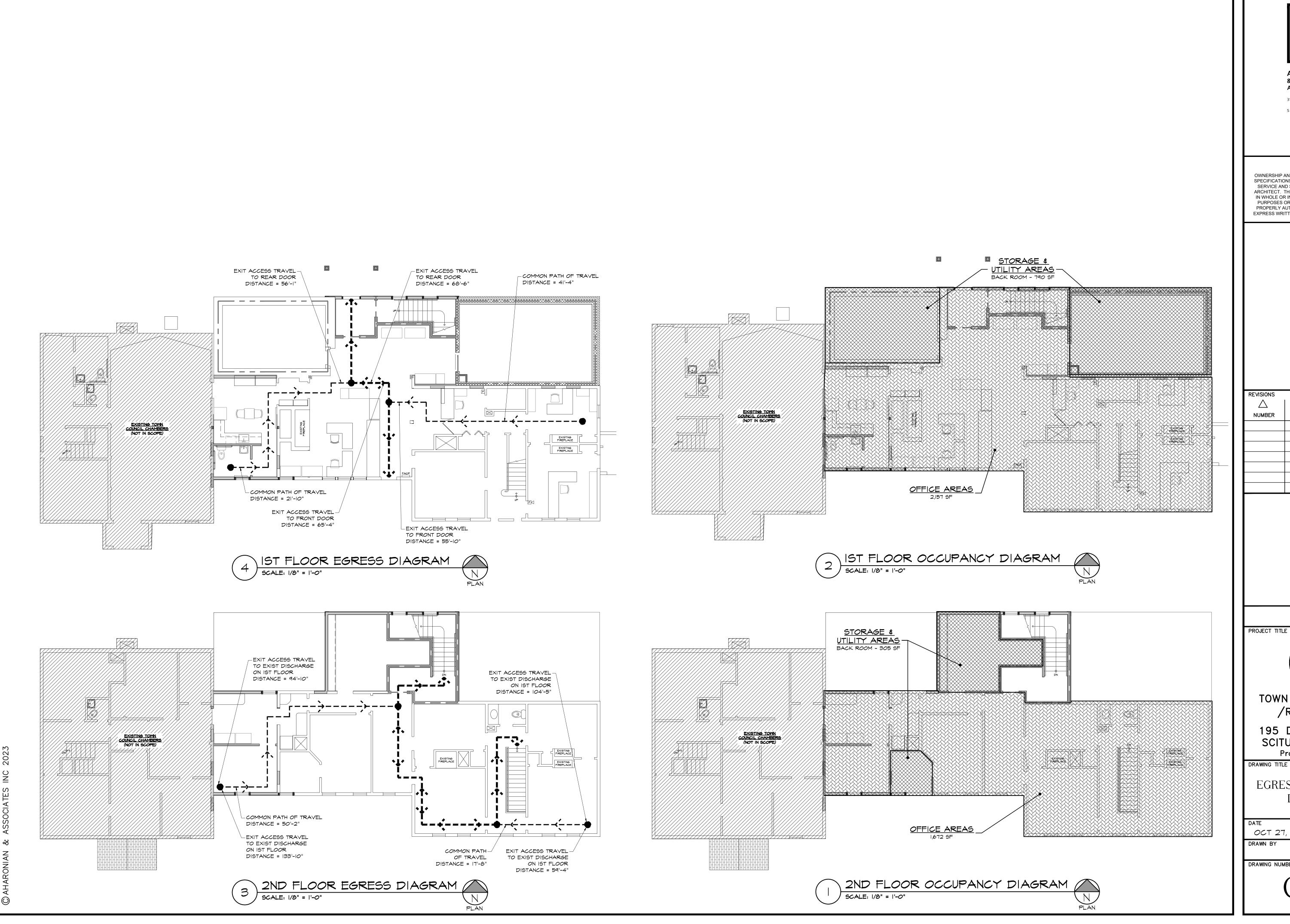
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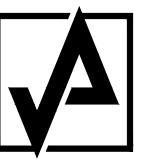
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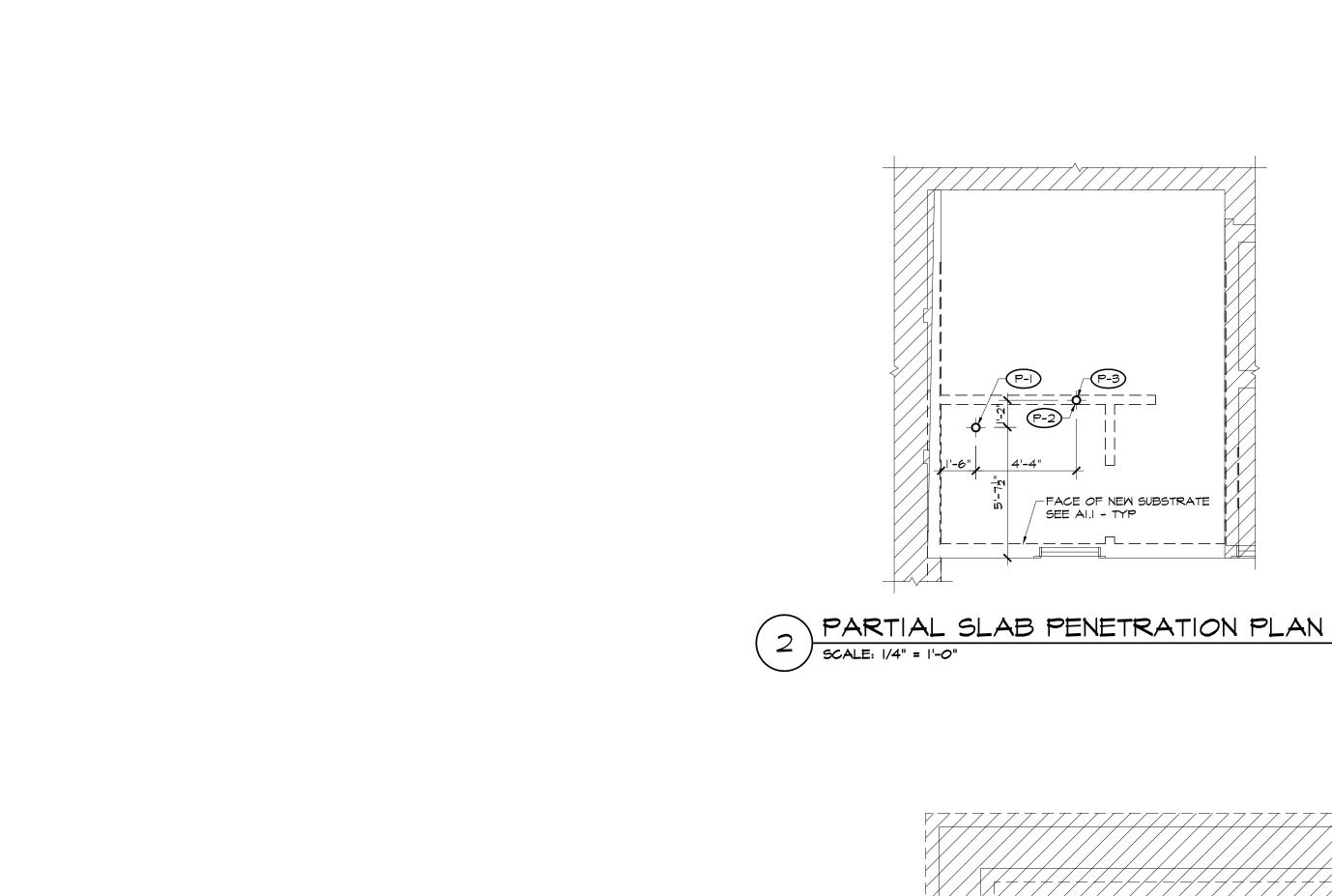


TOWN HALL ADDITION /RENOVATIONS

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EGRESS & OCCUPANCY DIAGRAMS

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SLAB PENETRATION NOTES

- I) LAYOUT DIMENSIONS INDICATED ON THIS DRAWING ARE INTENDED TO BE UTILIZED FOR GUIDELINE PURPOSES ONLY. REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR INSTALLATION TOLERANCES REQUIRED FOR SPECIFIC PLUMBING FIXTURES AND ACCESSORIES.
- 2) PLUMBER'S WORK TO END 10' FROM THE BUILDING. ALL CONNECTIONS TO SITE UTILITY PIPING SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR.
- 3) SEE PLUMBING DWGS FOR PLUMBING PRODUCT SPECIFICATIONS.
- 4) ALL DIMENSIONS ARE FROM FACE OF INTERIOR
 SUBSTRATE @ WALLS TO CENTERLINE OF PENETRATION
 UNLESS NOTED OTHERWISE. COORD ANY CHANGES TO
 INTERIOR PARTITIONS W/ ARCHITECT PRIOR TO START
 OF WORK, AS SOME DRAIN LOCATIONS ARE DEPENDANT
 UPON PLACEMENT OF THE NEW PARTITIONS AS
 INDICATED ON AI.I.

PLUMBING FIXTURE KEY

SEE PLUMB DWGS FOR PLUMBING SPECIFICATIONS

P-I MATER CLOSET

P-2 LAVATORY

P-3 KITCHENETTE SINK

SLAB PENETRATION LEGEND

- SLAB PENETRATION

7 77 77 77 77 77 77 77 77 77 77 77 77

GENERAL DEMOLITION NOTES

PROTECTION

- I) ALL RULES AND REGULATIONS GOVERNING THE RESPECTIVE
 UTILITIES SHALL BE OBSERVED IN EXECUTING ALL WORK UNDER
 THIS SECTION. ALL WORK SHALL BE EXECUTED IN SUCH A MANNER
 AS TO PREVENT ANY DAMAGE TO THE EXISTING BUILDING,
 SERVICE UTILITY LINES AND STRUCTURES.
- 2) THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGES TO THE EXISTING BUILDING AS WELL AS ADJOINING PRIVATE SPACES AND PROPERTY CAUSED BY HIS SUBCONTRACTOR'S EQUIPMENT & PERSONNEL.
- 3) PERFORM THE WORK IN SUCH A MANNER AS TO CAUSE NO INTERFERENCE W/ ACCESS BY THIS SUBCONTRACTOR OR OTHER CONTRACTORS TO ALL PORTIONS OF THE BUILDING AS NECESSARY FOR THE NORMAL CONDUCT OF THEIR WORK.
- 4) THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL ITEMS SCHEDULED TO REMAIN HAVE BEEN ADEQUATELY PROTECTED. TAKE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGING THOSE ITEMS WHICH HAVE BEEN SPECIFIED BY THE OWNER TO BE SALVAGED AND/OR STOCKPILED.

PREPARATION

NOTIFY ALL CORPORATIONS, COMPANIES, INDIVIDUALS OR LOCAL AUTHORITIES OWNING, OR HAVING JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS AREAS TO BE DISTURBED BY DEMOLITION OPERATIONS.

2) HAVE ALL UTILITY SERVICES NOT OTHERWISE DESIGNATED TO BE DISCONNECTED BY THE CONTRACTOR, DISCONNECTED AT SERVICE MAINS BY THE GOVERNING UTILITY INVOLVED, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED BY THE ARCHITECT.

<u>DEMOLITION</u>

- DEMOLISH DESIGNATED EXISTING FEATURES ABOVE & BELOW FLOOR LEVELS, WITHIN THE CONTRACT LIMIT LINES, AS NOTED TO PREPARE THE BUILDING FOR ALL OTHER WORK AS SPECIFIED OR AS SHOWN ON THE DRAWINGS AND AS ORDERED BY THE
- 2) COMPLY W/ ALL STATE OF RHODE ISLAND DEPARTMENT OF HEALTH STANDARDS DURING DEMOLITION OPERATIONS.
- 3) REMOVE & SALVAGE MATERIAL REQ'D FOR LATER REUSE AS SHOWN ON THE DRAWINGS & AS DIRECTED BY THE ARCHITECT.

- 4) REMOVE & DISPOSE OF ALL UNSUITABLE MATERIAL OFF SITE. THE OWNER SHALL HAVE RIGHT OF FIRST REFUSAL FOR ALL MATERIALS. REMOVE ANY STOCKPILED MATERIAL DEEMED SURPLUS BY THE ARCHITECT @ NO ADDITIONAL COST TO THE OWNER.
- 5) REFER TO KEYED DEMOLITION NOTES & THE DEMOLITION FLOOR PLAN FOR FURTHER CLARIFICATION OF ITEMS SCHEDULED FOR DEMOLITION.

DISPOSAL AND CLEAN UP

- I) PROMPTLY REMOVE ANY DEMOLITION DEBRIS OR SIMILAR MATERIAL, KEEPING THE AREA CLEAN AT ALL TIMES.
- 2) DEMOLISHED MATERIAL:
 - A) ALL DEMOLISHED MATERIAL DECLARED UNSUITABLE BY THE ARCHITECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR & SHALL BE LEGALLY DISPOSED OF OFF THE PREMISES, UNLESS OTHERWISE INDICATED OR SPECIFIED.
- B) KEEP ALL EXITS, PUBLIC WAYS AND EGRESS PASSAGEWAYS CLEAR OF ALL DEBRIS @ ALL TIMES.
- CLEAR OF ALL DEDRIS & ALL TIMES.

3) PREMISES: LEAVE THE PREMISES IN A SAFE, CLEAN & RELATIVELY ORDERLY CONDITION UPON COMPLETION OF WORK.

SHORING

- I) IT IS THE CONTRACTORS RESPONSIBILITY TO SHORE, BRACE, OR OTHERWISE SUPPORT THE STRUCTURE AS REQ'D TO MAINTAIN STRUCTURAL INTEGRITY AT ACCUSED ALL DESIGN SHALL BE
- PROVIDED BY THE GENERAL CONTRACTOR.

 2) HEADERS SHALL BE PLACED ACROSS THE TOP OF SHORING POSTS & SHALL BE TIGHT AGAINST UNDERSIDE OF THE STRUCTURE
- 3) SHORING SHALL BEAR ON SLEEPERS TO PREVENT DAMAGE TO STRUCTURE BELOW.
- 4) TEMPORARY SHORING SHALL BE ERECTED, SUPPORTED, BRACED \$
 MAINTAINED BY THE CONTRACTOR TO SAFELY SUPPORT ALL
 DEAD LOADS PRESENTLY CARRIED BY THE BUILDING STRUCTURE
 AS WELL AS ANY CONSTRUCTION LIVE LOADS.
- 5) SHORING SHALL BE RELEASED GRADUALLY.

(A#) FOUNDATION DEMO NOTES

- REMOVE PORTION OF FOOTING, FOUNDATION WALL & CONC SLAB AS INDICATED BY:
- REMOVE PORTION OF STEM WALL (IF EXISTS) DOWN TO EXISTING SLAB HEIGHT AS INDICATED BY:
- REMOVE PORTION OF CONC SLAB AS REQ'D FOR NEW FOOTING INSTALLATION AS SHOWN. SEE STRUCT DWGS.
- (A4) REMOVE CONC SLAB UP TO ETR FNDN WALL.

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Providence County

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DEMOLITION

FOUNDATION & PARTIAL SLAB PENETRATION PLANS

DATE PROJ NO

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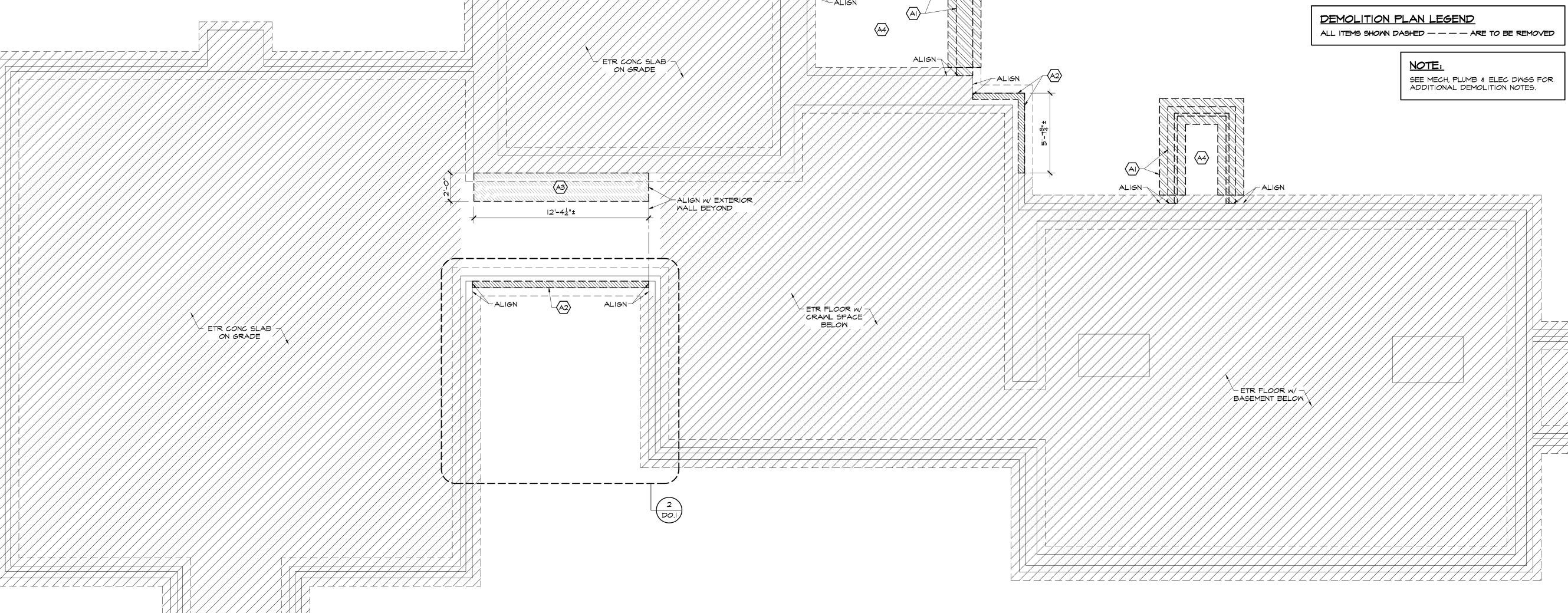
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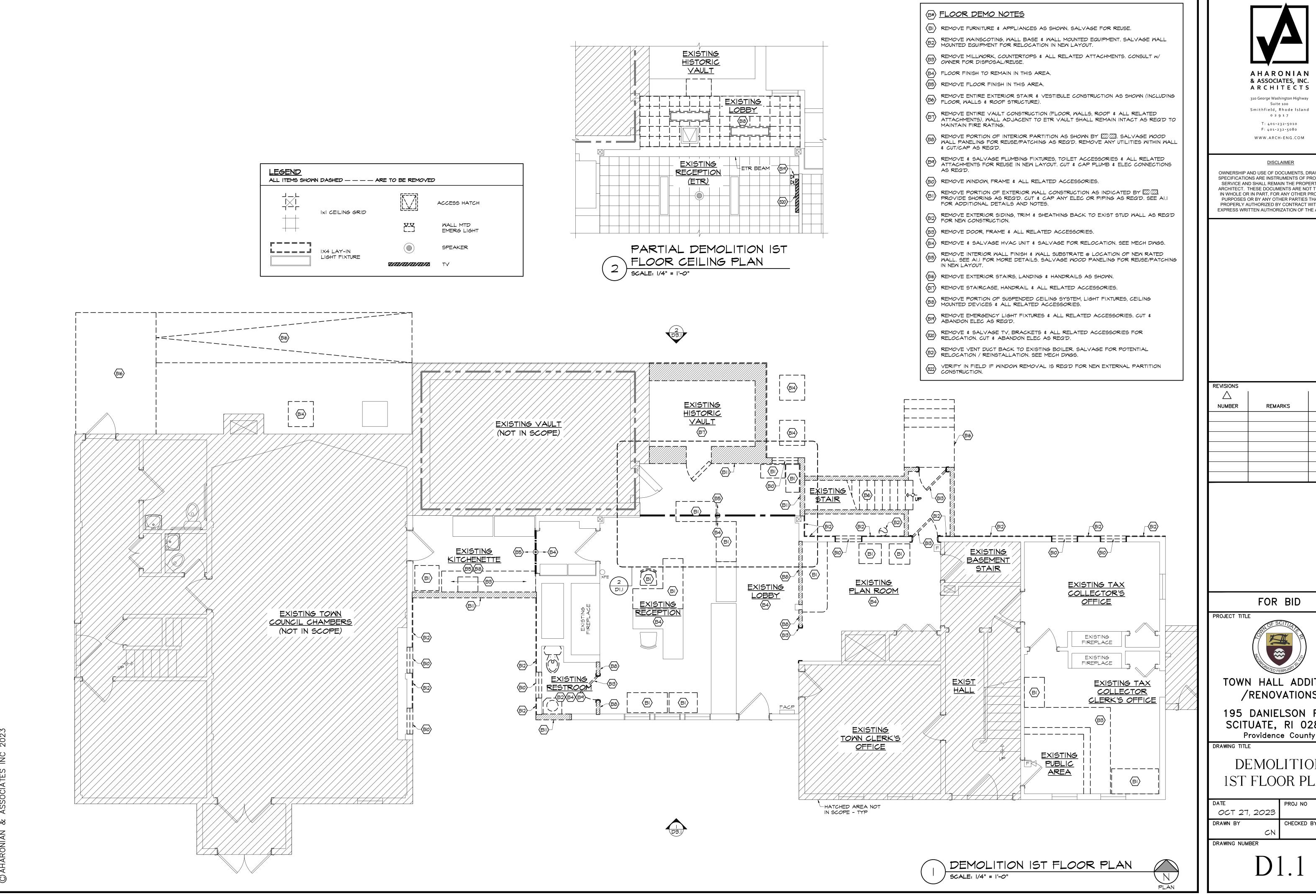
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DEMOLITION FOUNDATION PLAN

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







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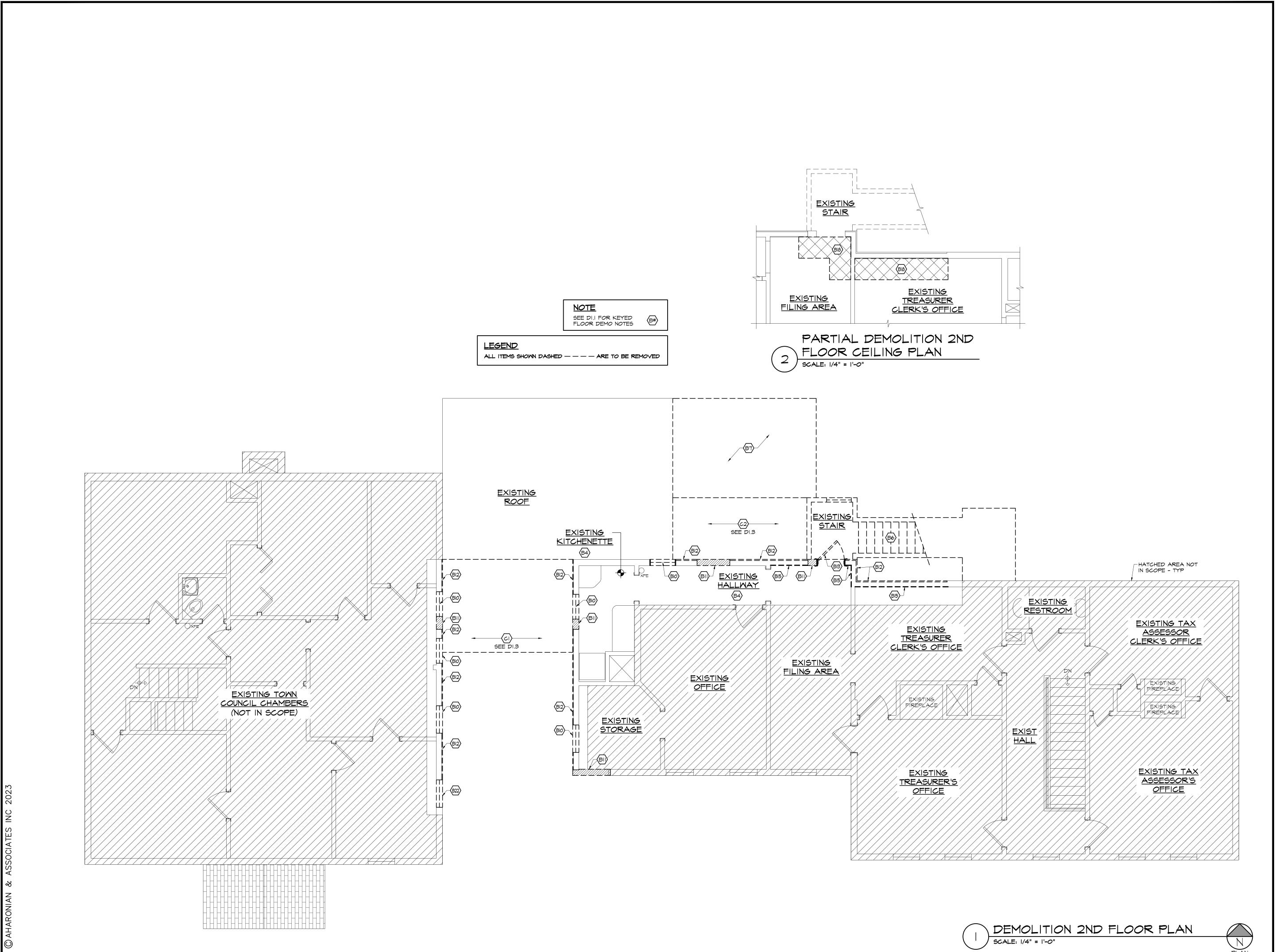


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DEMOLITION 1ST FLOOR PLAN

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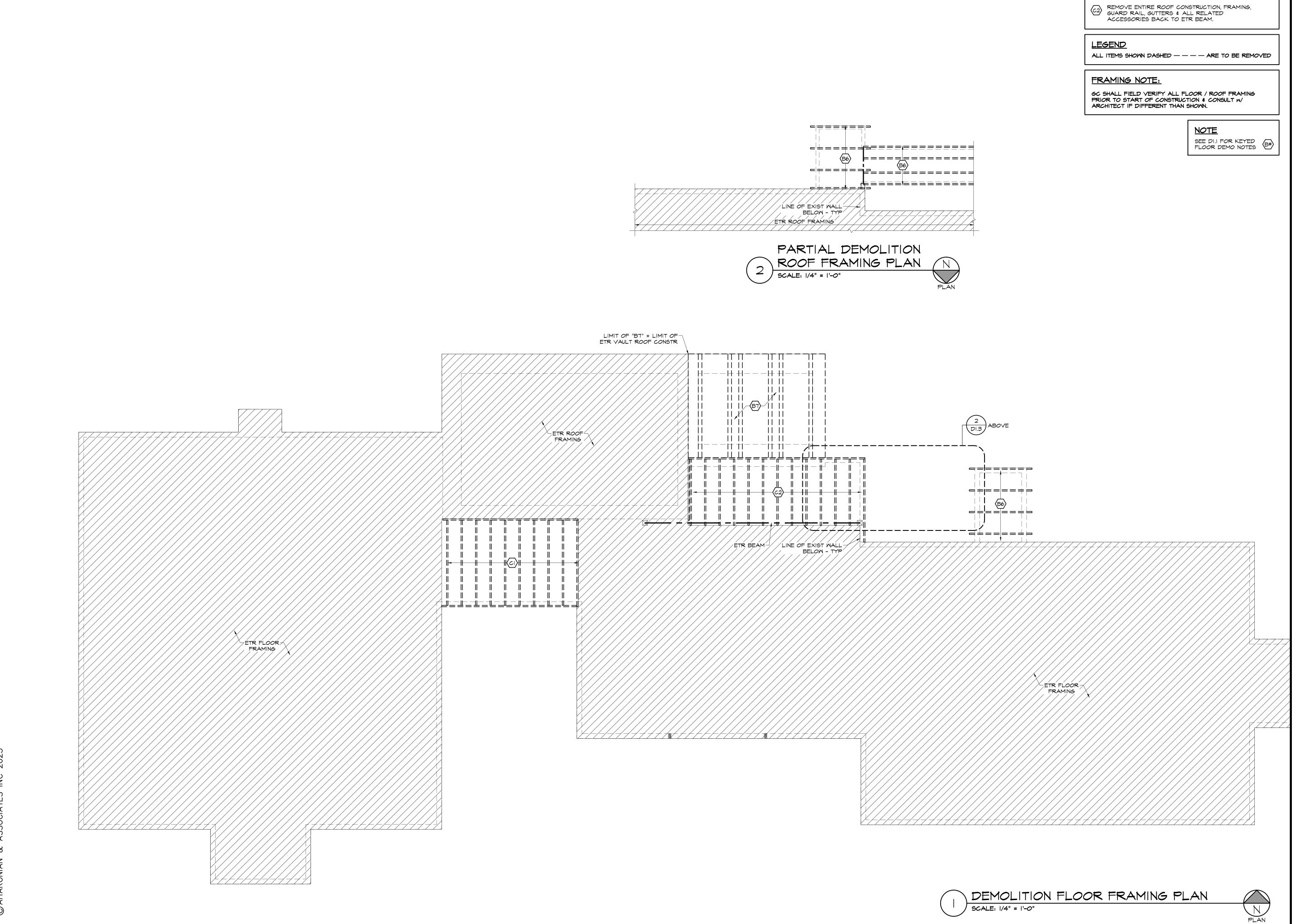
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DEMOLITION 2ND FLOOR PLANS

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FRAMING DEMO NOTES

REMOVE ENTIRE ROOF CONSTRUCTION / FRAMING & ALL RELATED ACCESSORIES.



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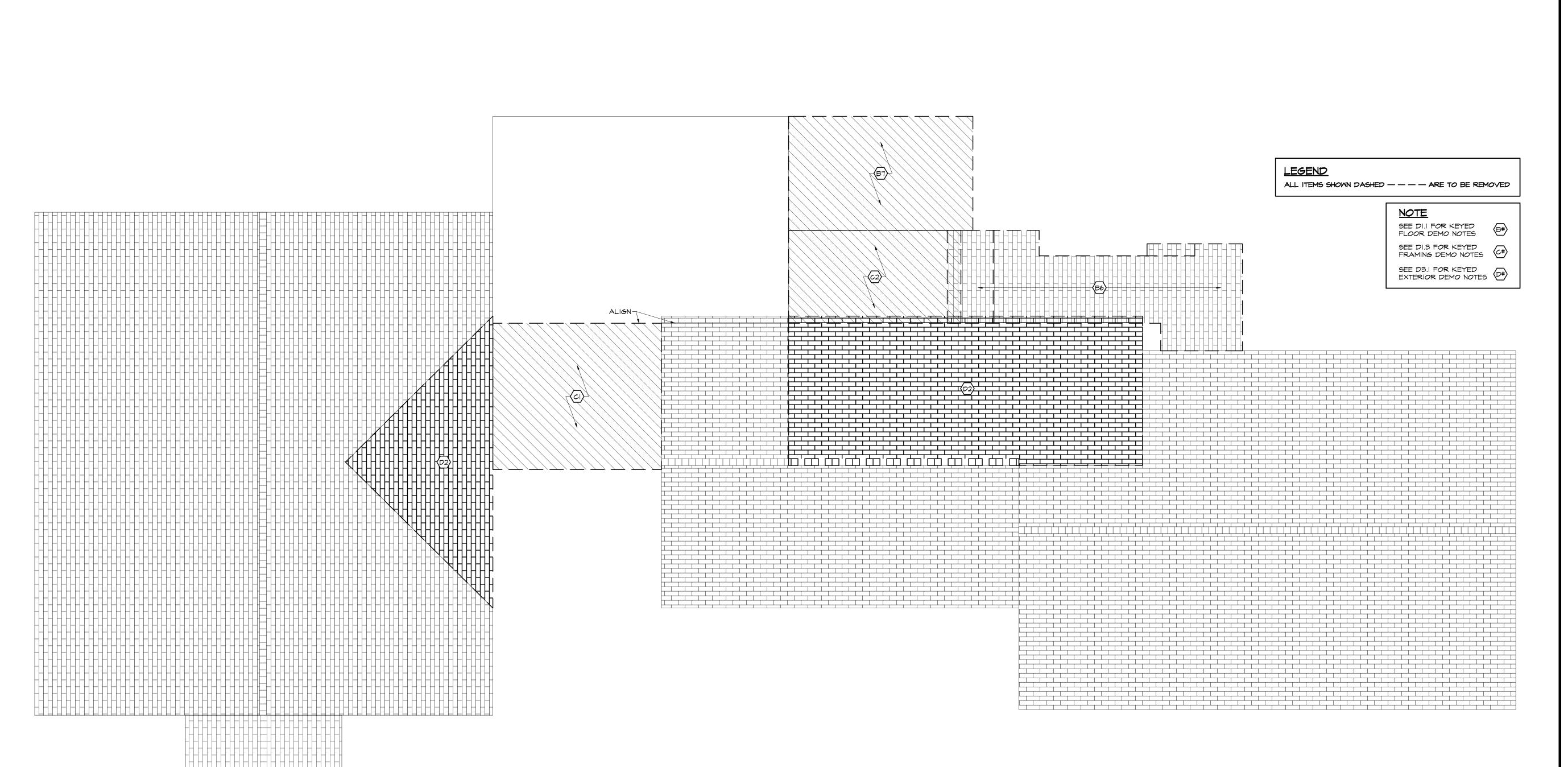
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ROOF PLAN

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DEMOLITION ROOF PLAN

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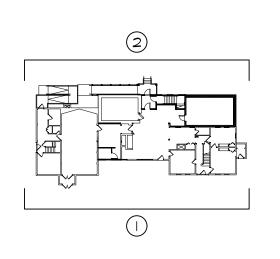




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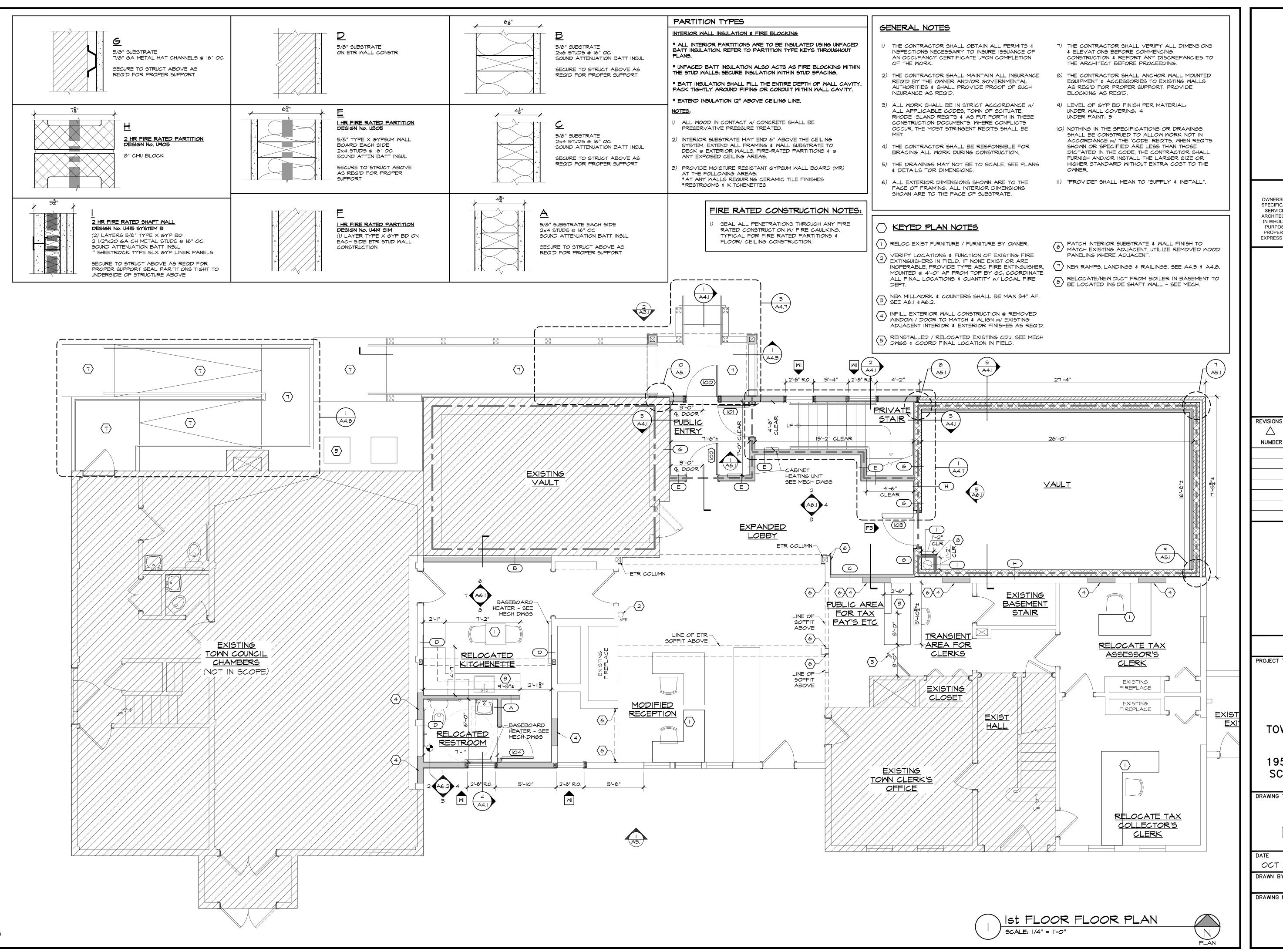


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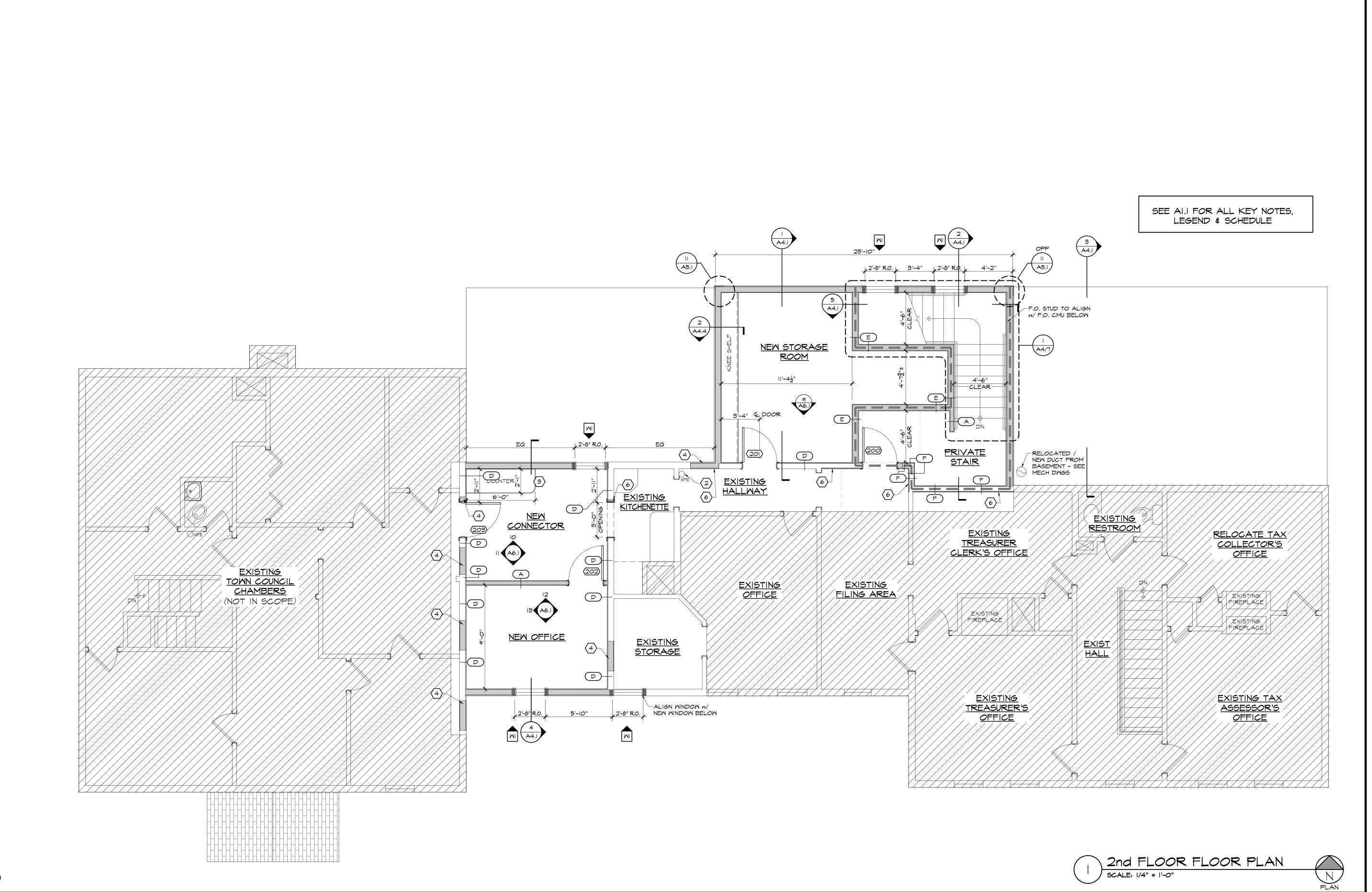
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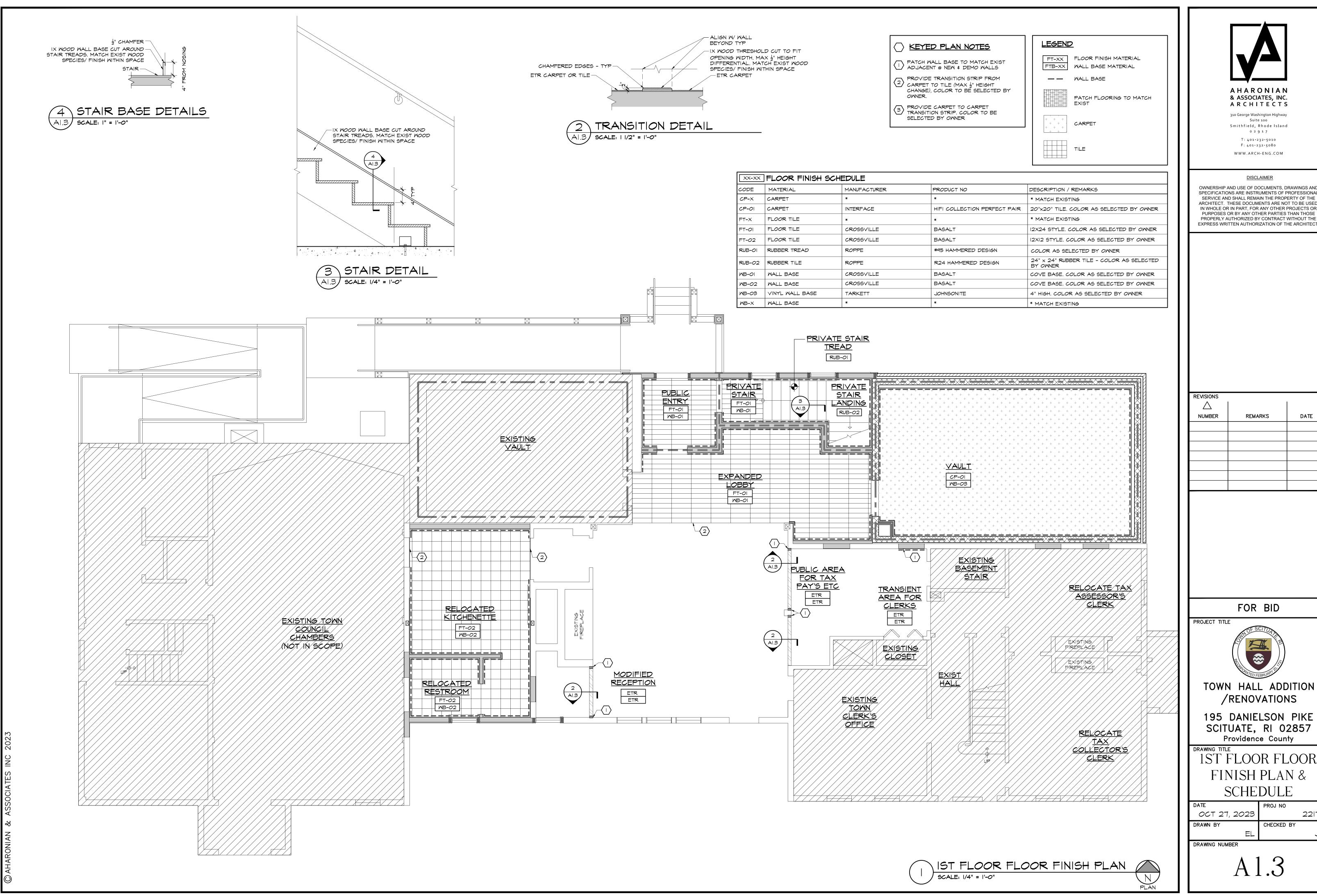
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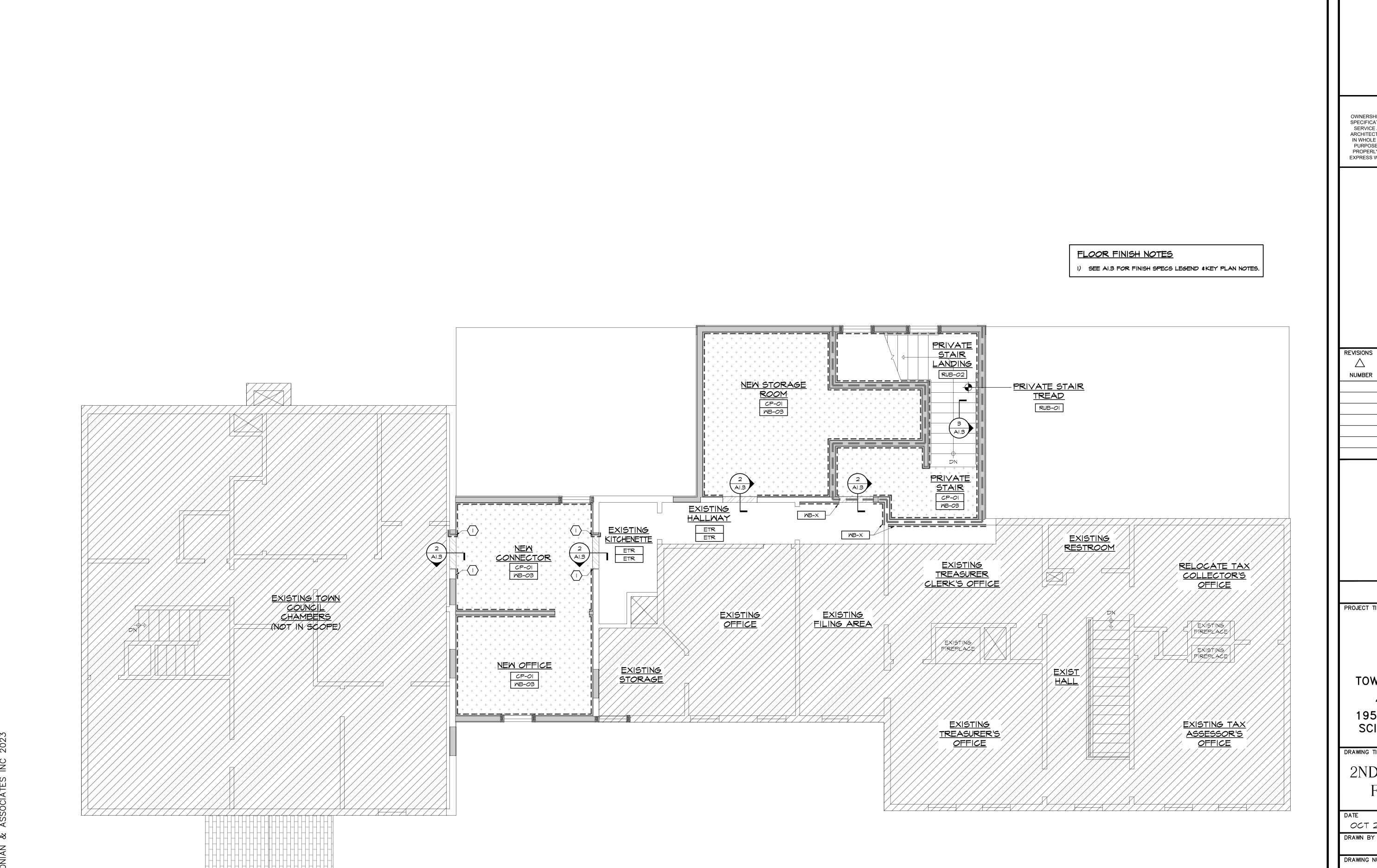
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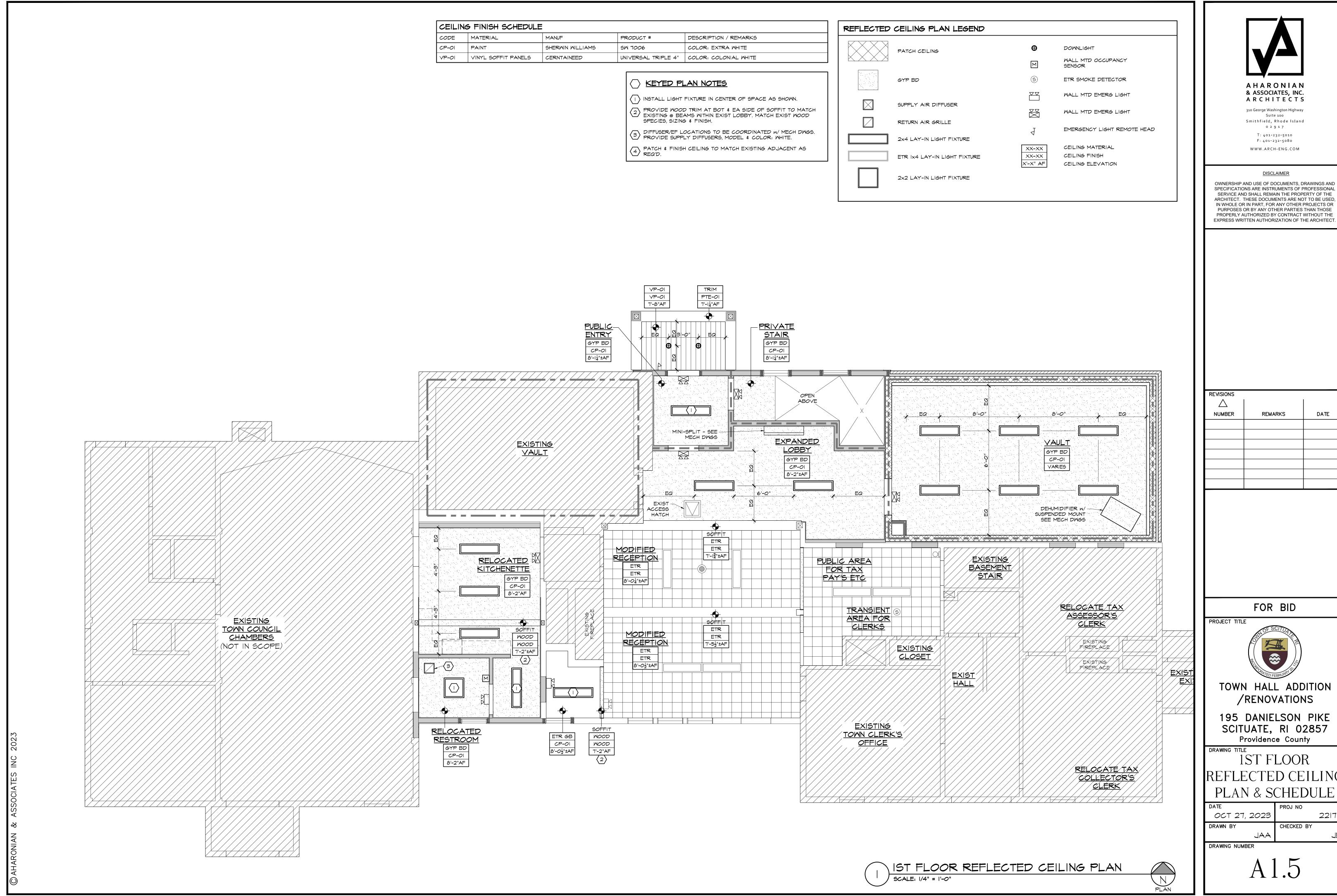
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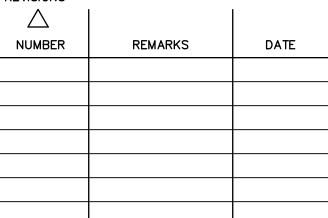
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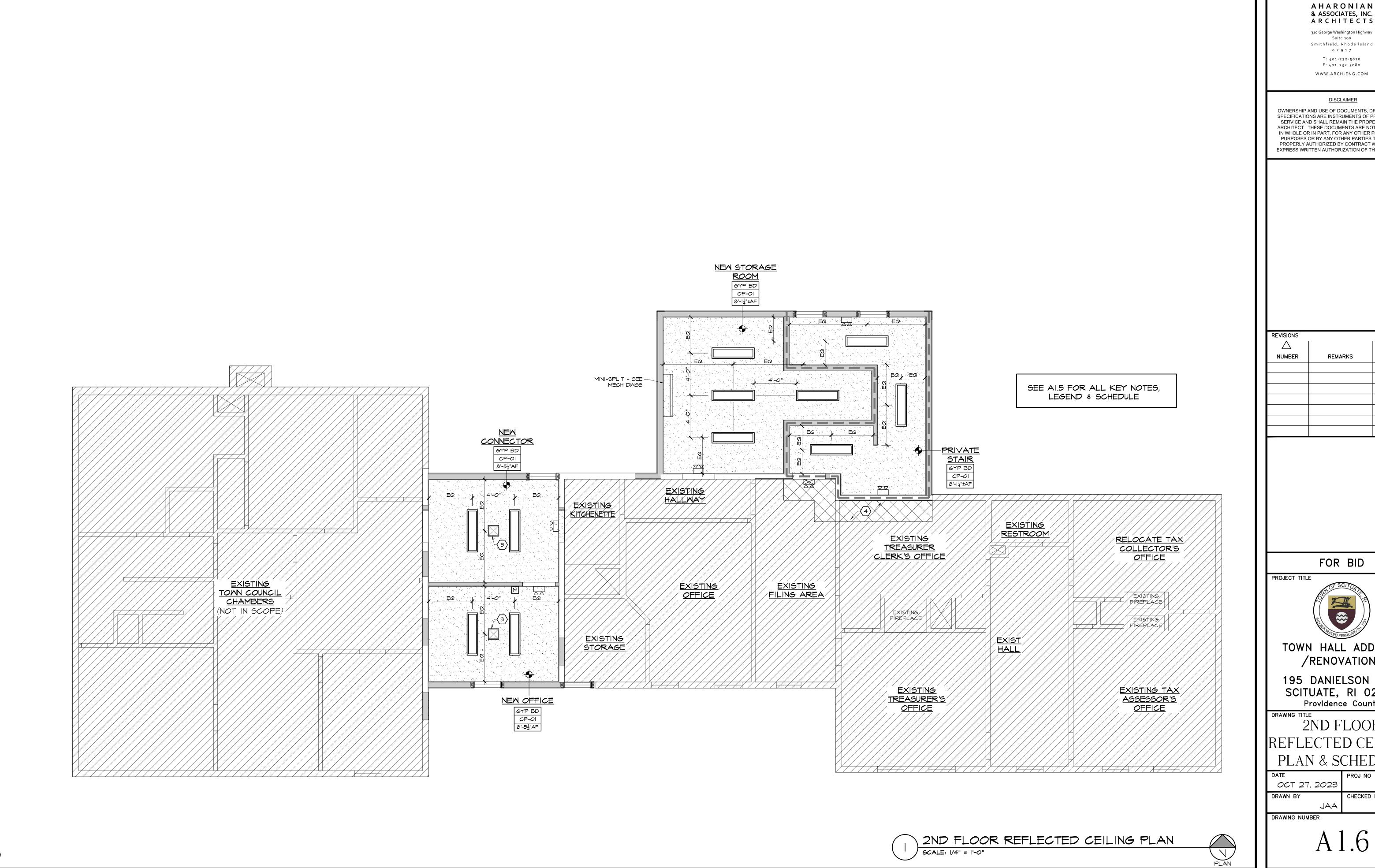
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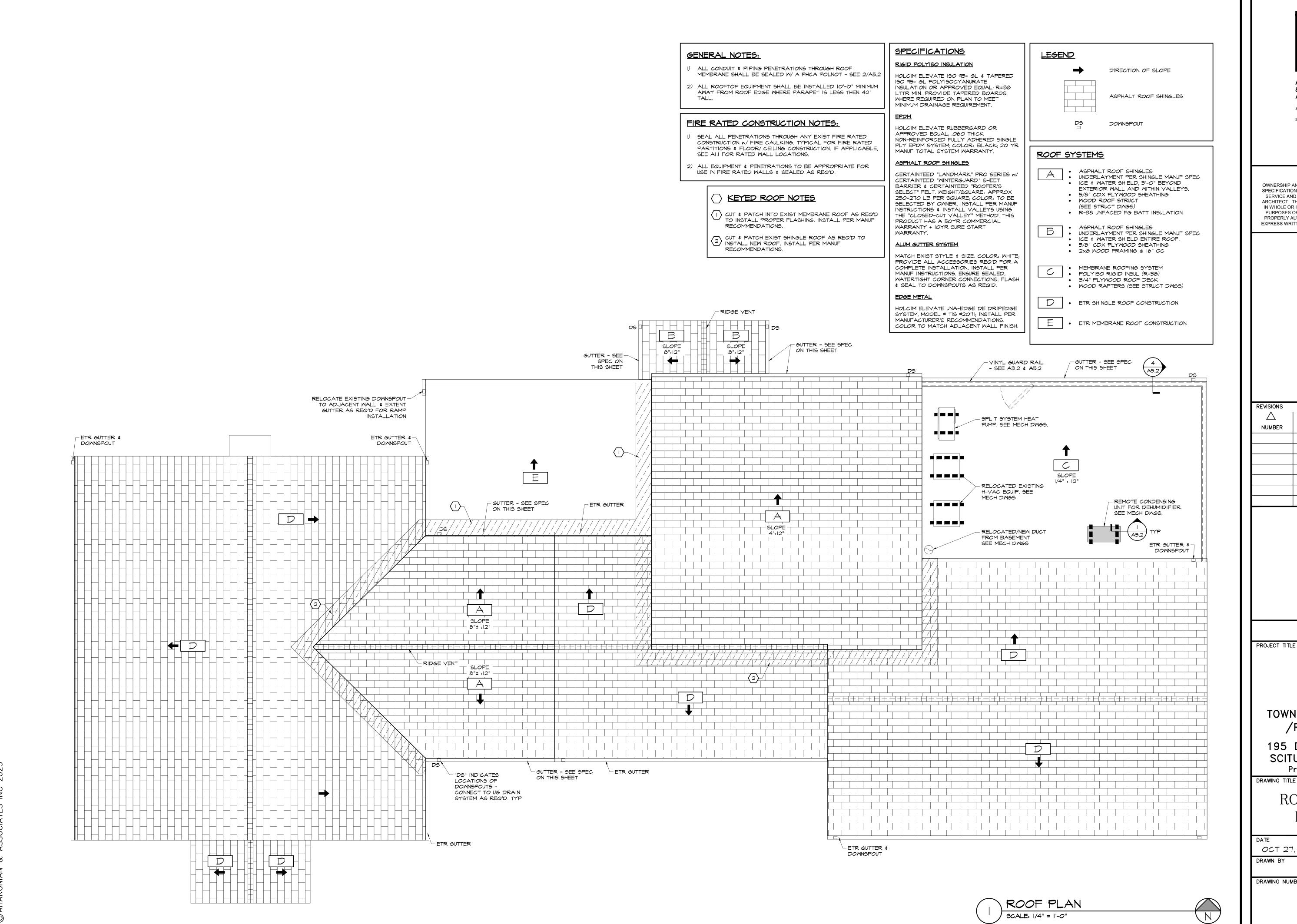


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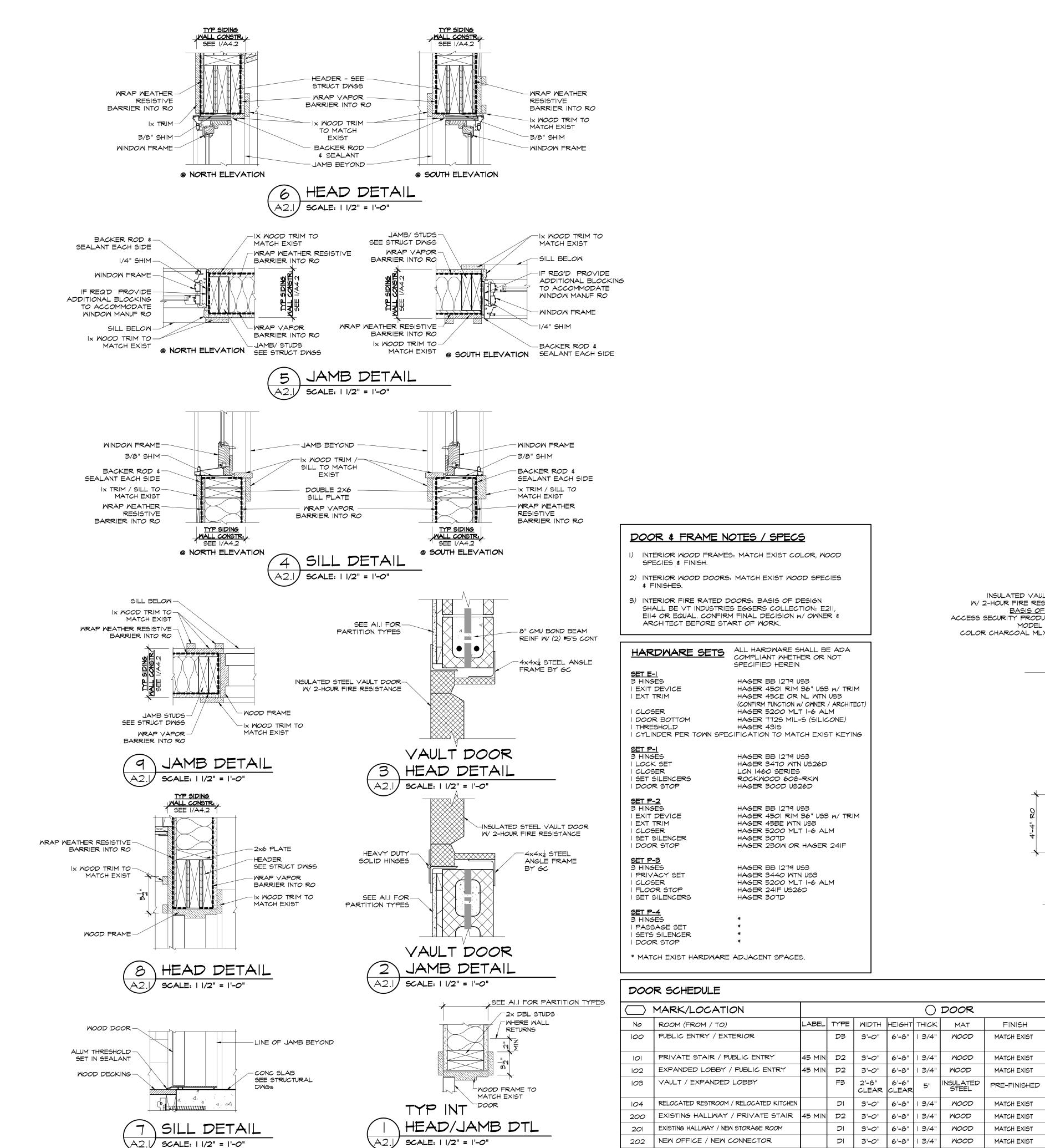
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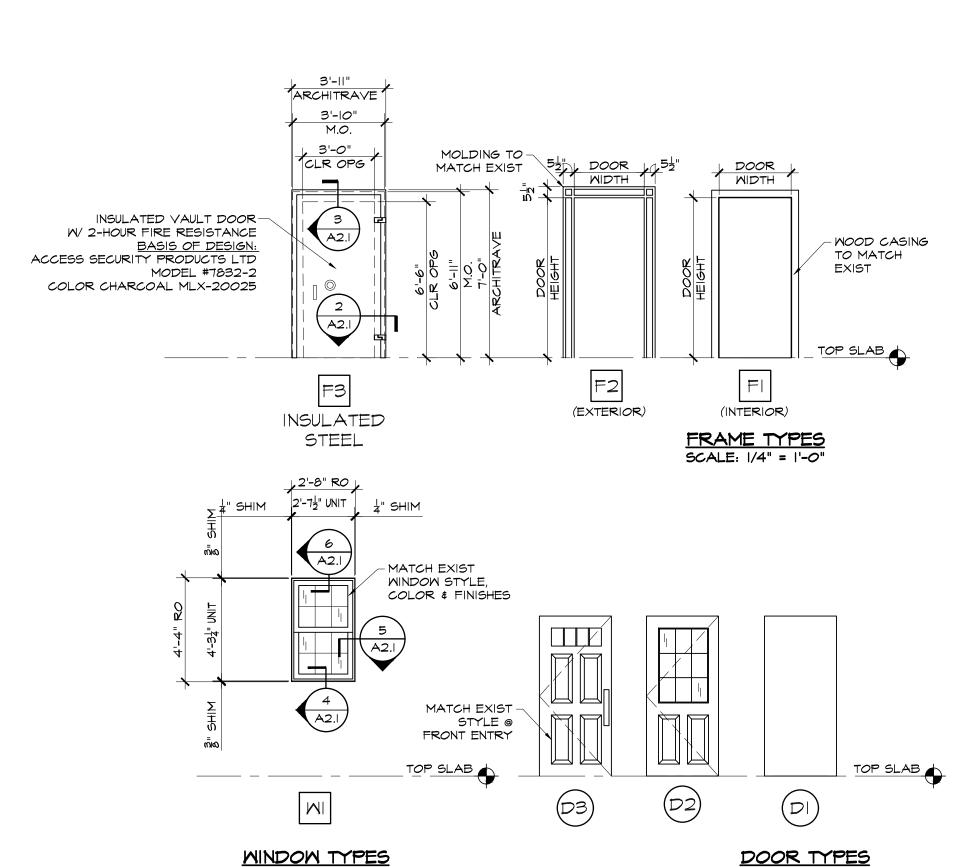
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DATE	PROJ NO
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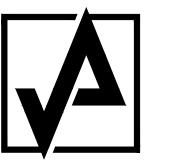
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STEEL PRE-FINISHED

MOOD MATCH EXIST

F2 (EXTERIOR) | WOOD | MATCH EXIST



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Providence County

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104

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202

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HDW REMARKS

SEE "F3" FOR SPEC

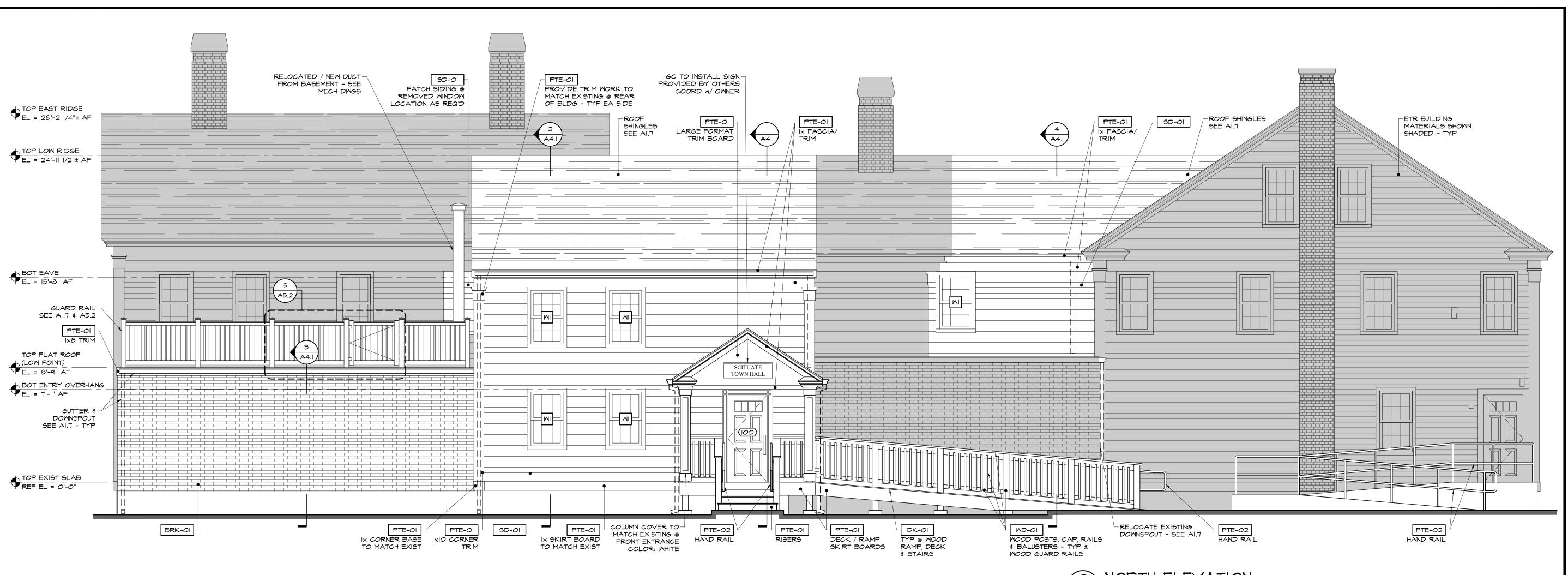
P-3 UNDERCUT DOOR 3/4" AFF

DOOR & STOREFRONT SCHEDULE & DTLS

DATE	PROJ NO	
OCT 27, 2023		22173
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A2.



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

PRODUCT SPECS

SEALANT
ALL EXTERIOR CONDITIONS: TREMCO SPECTREM I; GENERAL PURPOSE, HIGH-PERFORMANCE, ULTRA-LOW MODULUS, ONE-PART, MOISTURE CURING, NON-STAINING, CONSTRUCTION GRADE. +100%/-50% JOINT MOVEMENT CAPABILITY IN EXTENSION AND COMPRESSION.

ALL INTERIOR CONDITIONS EXCEPT "WET" AREAS: TREMCO TREMFLEX 834 SILICONIZED ACRYLIC LATEX SEALANT; GENERAL PURPOSE, INTERIOR, ONE-PART, PAINTABLE, PURE ACRYLIC LATEX SEALANT. +/-12 ½% JOINT MOVEMENT CAPABILITY.

ALL INTERIOR "WET" LOCATIONS (TOILET ROOMS, KITCHEN, JANITOR'S CLOSET, ETC): TREMCO TREMSIL 200; ONE-PART, ACETOXY SILICONE SEALANT. WHITE & CLEAR COLOR AVAIL, CONTAINING FUNGICIDE.

MD-01 MOOD STAIN

ALL PAINT MATERIALS SHALL BE THE FIRST LINE PRODUCTS OF SHERWIN WILLIAMS OR BENJAMIN MOORE; SEE PAINT SPECS. SECONDARY PRODUCTS NOT SPECIFIED BY NAME AND REQUIRED FOR THE JOB, SUCH AS SHELLAC, THINNERS, PUTTY, ETC, SHALL BE THE "BEST GRADE" OR "FIRST LINE" PRODUCTS OF A REPUTABLE MANUFACTURER.

PAINT - CONT

INTERIOR SURFACES:

STEEL - PRIMED: PRIME COAT: ACRYLIC LATEX IST FINISH COAT: ACRYLIC LATEX 2ND FINISH COAT: ACRYLIC LATEX

GYP BD WALLS & CLGS:PRIME COAT: ACRYLIC LATEX IST FINISH COAT: ACRYLIC LATEX 2ND FINISH COAT: ACRYLIC LATEX

EXTERIOR SURFACES:

ALUMINUM TRIM:

STEEL - SHOP PRIMED: PRIME COAT: ACRYLIC LATEX IST FINISH COAT: ALKYD ENAMEL 2ND FINISH COAT: ALKYD ENAMEL

STEEL - GALVANIZED: PRIME COAT: ZINC RICH PRIMER IST FINISH COAT: ALKYD ENAMEL 2ND FINISH COAT: ALKYD ENAMEL

IST FINISH COAT: ALKYD ENAMEL 2ND FINISH COAT: ALKYD ENAMEL FCB SIDING & TRIM: PRIME COAT: ACRYLIC LATEX

PRIME COAT: ACRYLIC LATEX

IST FINISH COAT: ACRYLIC LATEX 2ND FINISH COAT: ACRYLIC LATEX

PRIME COAT: LATEX BLOCK FILLER IST FINISH COAT: ALKYD SATIN ENAMEL MASONRY: 2ND FINISH COAT: ALKYD SATIN ENAMEL

XX-XX	EXTERIOR FINISH SCHEDU	LE		
CODE	MATERIAL	MANUFACTURER	PRODUCT #	DESCRIPTION / REMARKS
BRK-01	MODULAR BRICK TO MATCH EXIST		MATCH EXISTING	MATCH EXISTING
DK-01	COMPOSITE DECK BOARDS	TREX	TREX SIGNATURE "WHIDBEY"	FINAL COLOR SELECTION BY OWNER
PTE-01	EXTERIOR PAINT	SHERWIN WILLIAMS	MATCH EXISTING	COLOR: "WHITE" TO MATCH EXISTING BUILDING COLOR
PTE-02	EXTERIOR PAINT	SHERWIN WILLIAMS	SM 6258 "TRICORN BLACK"	FINAL COLOR SELECTION BY OWNER
SD-01	SIDING TO MATCH EXIST		MATCH EXISTING	MATCH EXISTING

TBD

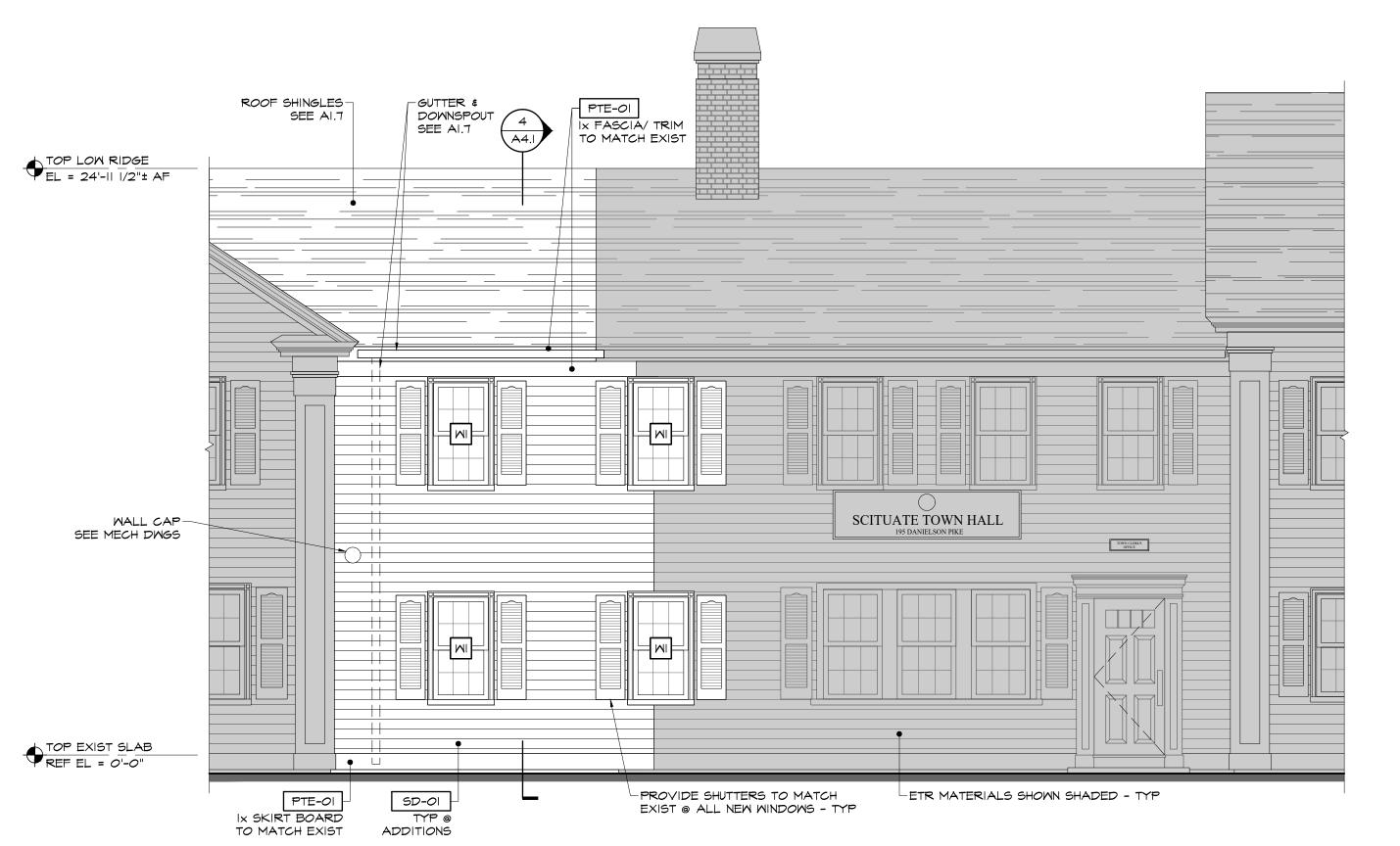
MINMAX

EXTERIOR ELEVATION NOTES

CLEAN & PREP ALL SURFACES AS REQ'D PER PAINT MANUF SPECIFICATIONS PRIOR TO PAINTING. VERIFY CONDITION OF EXISTING MATERIALS - REPAIR / REPLACE MATERIALS TO MATCH EXISTING AS REQ'D. APPLY PAINT IN STRICT ACCORDANCE W/ PAINT MANUF SPECIFICATIONS.

FINAL COLOR SELECTION BY OWNER

2) REMOVE ALL SURFACE MTD ITEMS @ EXIST EXTERIOR WALL AS REQ'D FOR NEW WORK. SALVAGE ALL ITEMS FOR REINSTALLATION IN SAME LOCATIONS UNO.



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



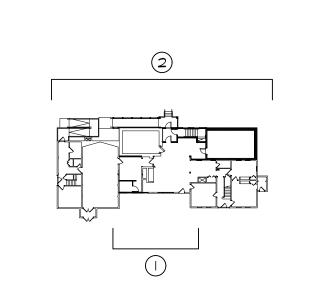
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PROJECT TITLE

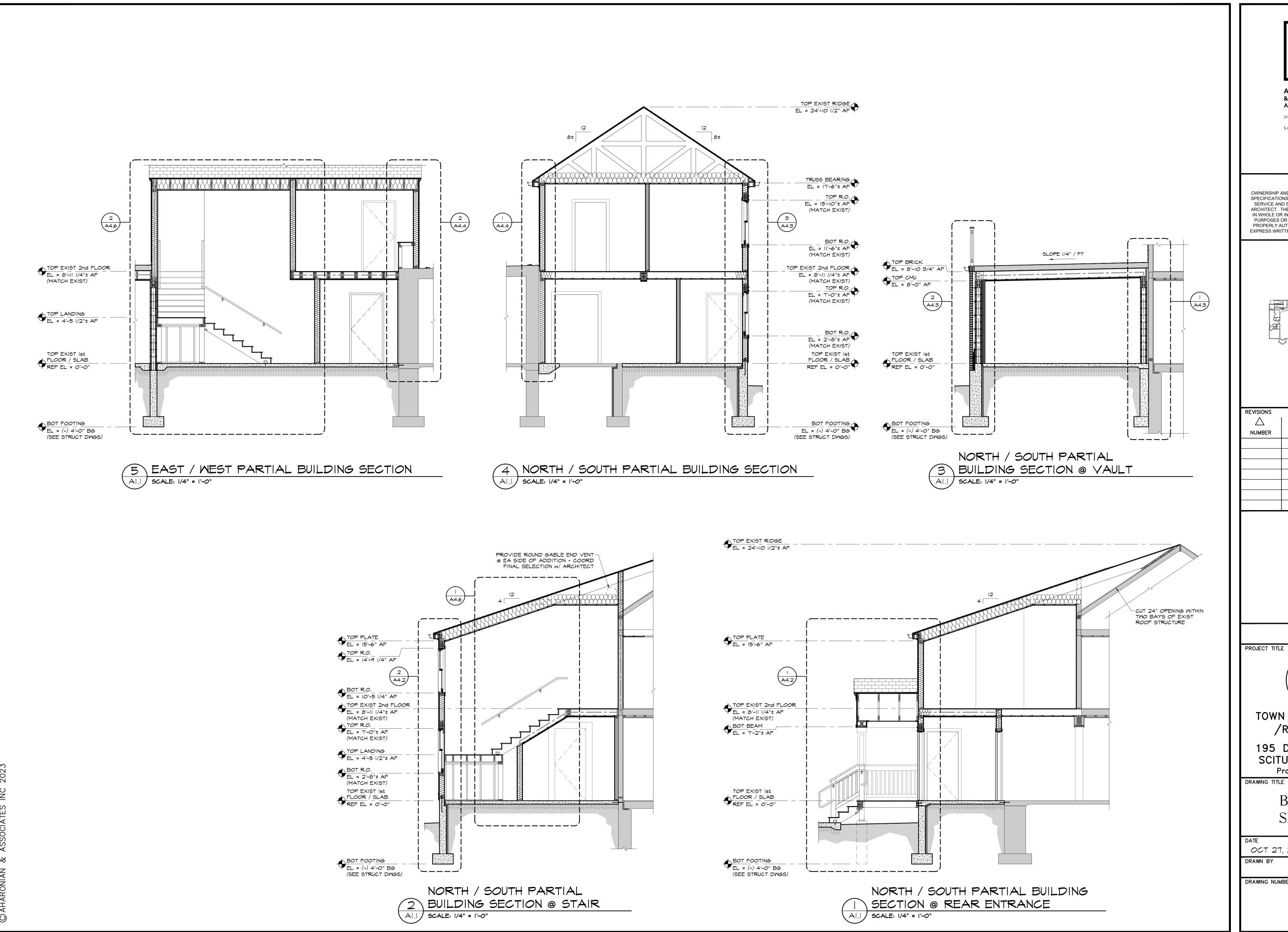


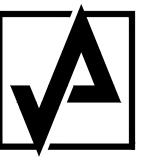
TOWN HALL ADDITION /RENOVATIONS

195 DANIELSON PIKE SCITUATE, RI 02857 Providence County

DRAWING TITLE EXTERIOR ELEVATIONS & SCHEDULE

PROJ NO	
	22173
CHECKED BY	
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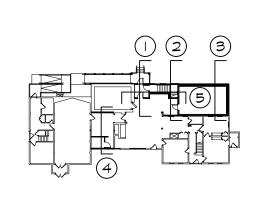
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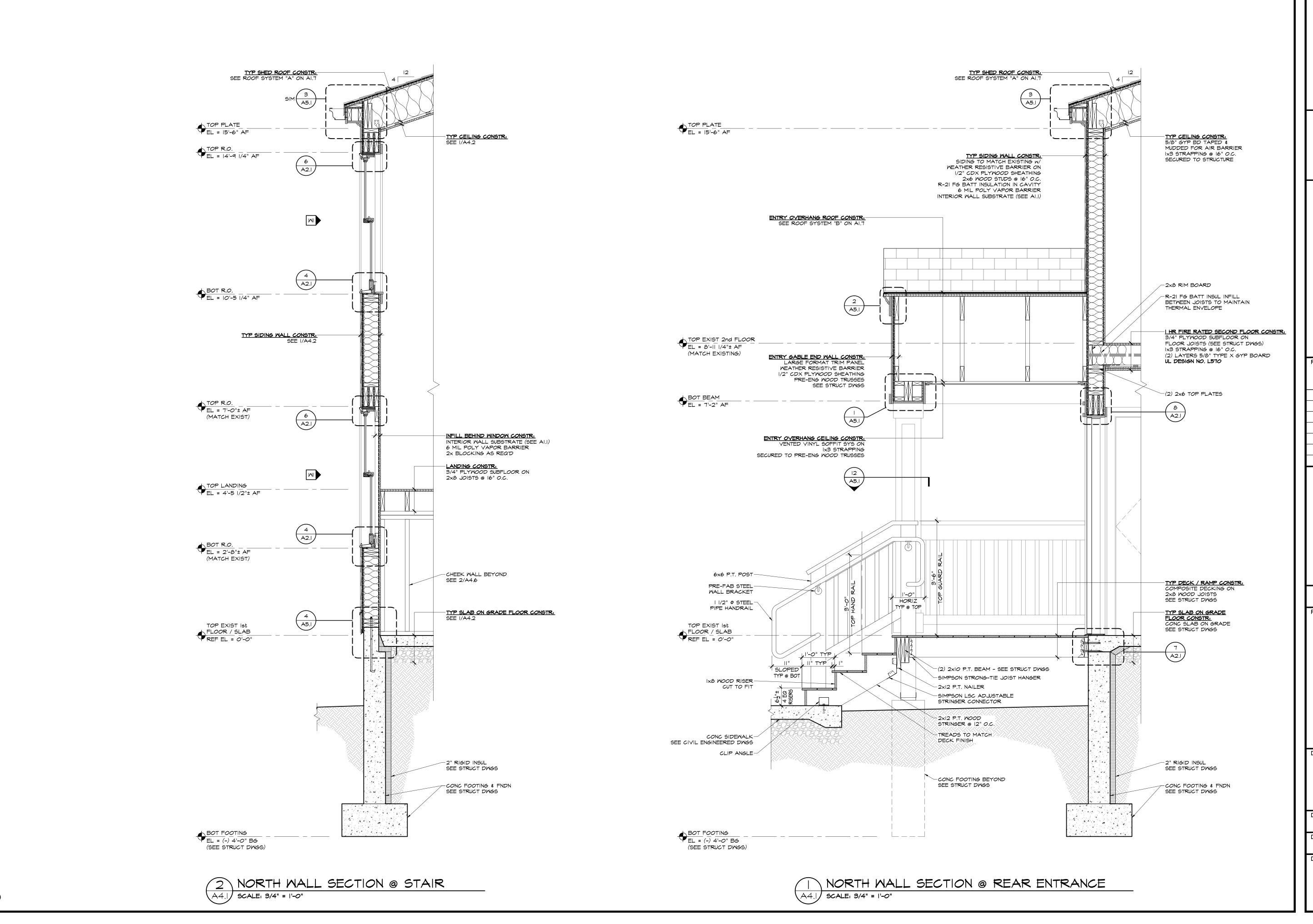


TOWN HALL ADDITION /RENOVATIONS

195 DANIELSON PIKE SCITUATE, RI 02857 Providence County

BUILDING SECTIONS

DATE	PROJ NO
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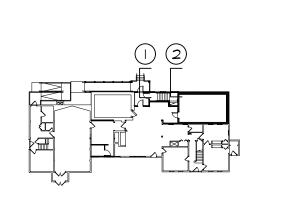
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PROJECT TITLE



TOWN HALL ADDITION / RENOVATIONS

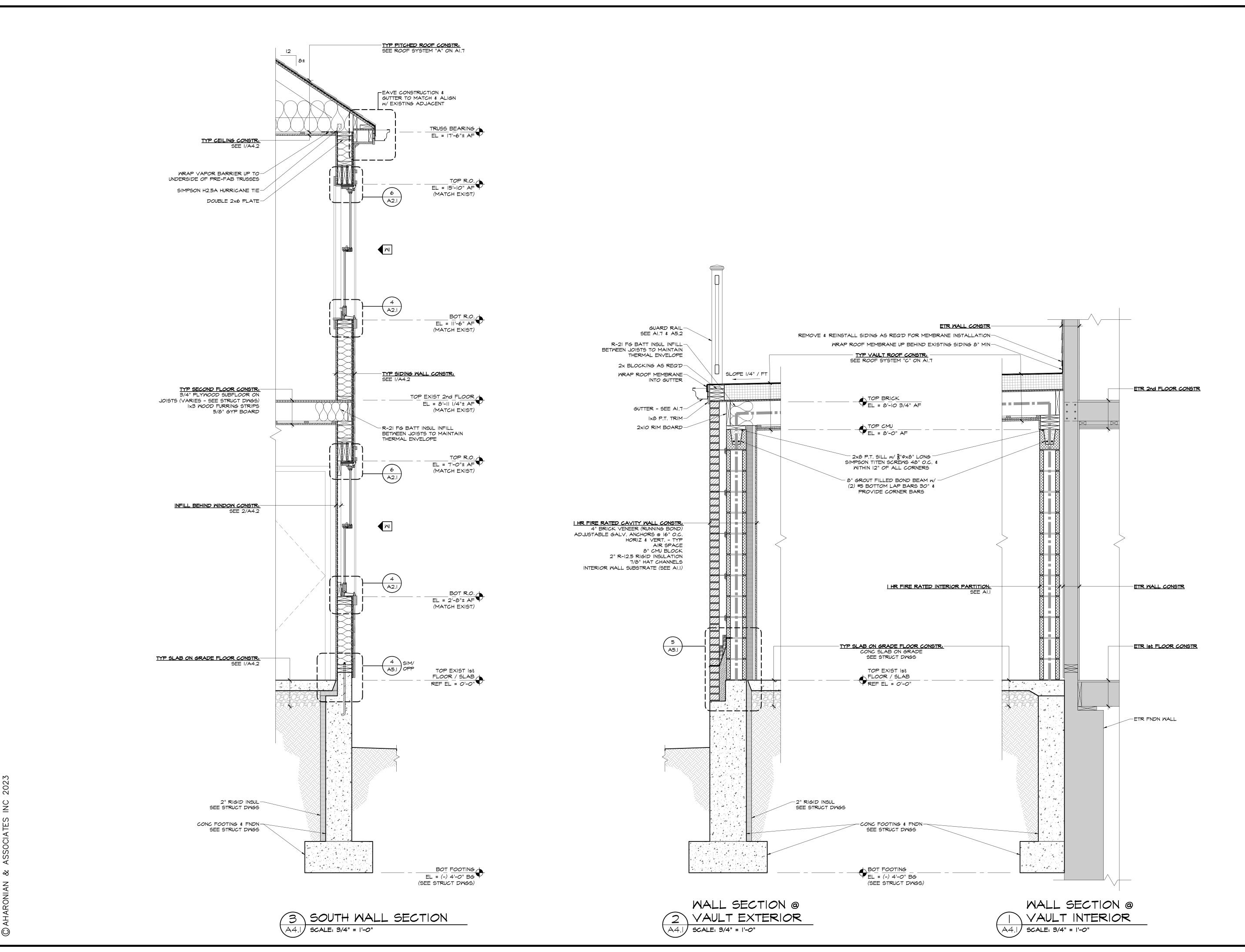
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DRAWING TITLE

WALL SECTIONS

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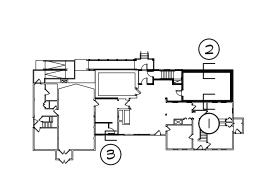
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PROJECT TITLE



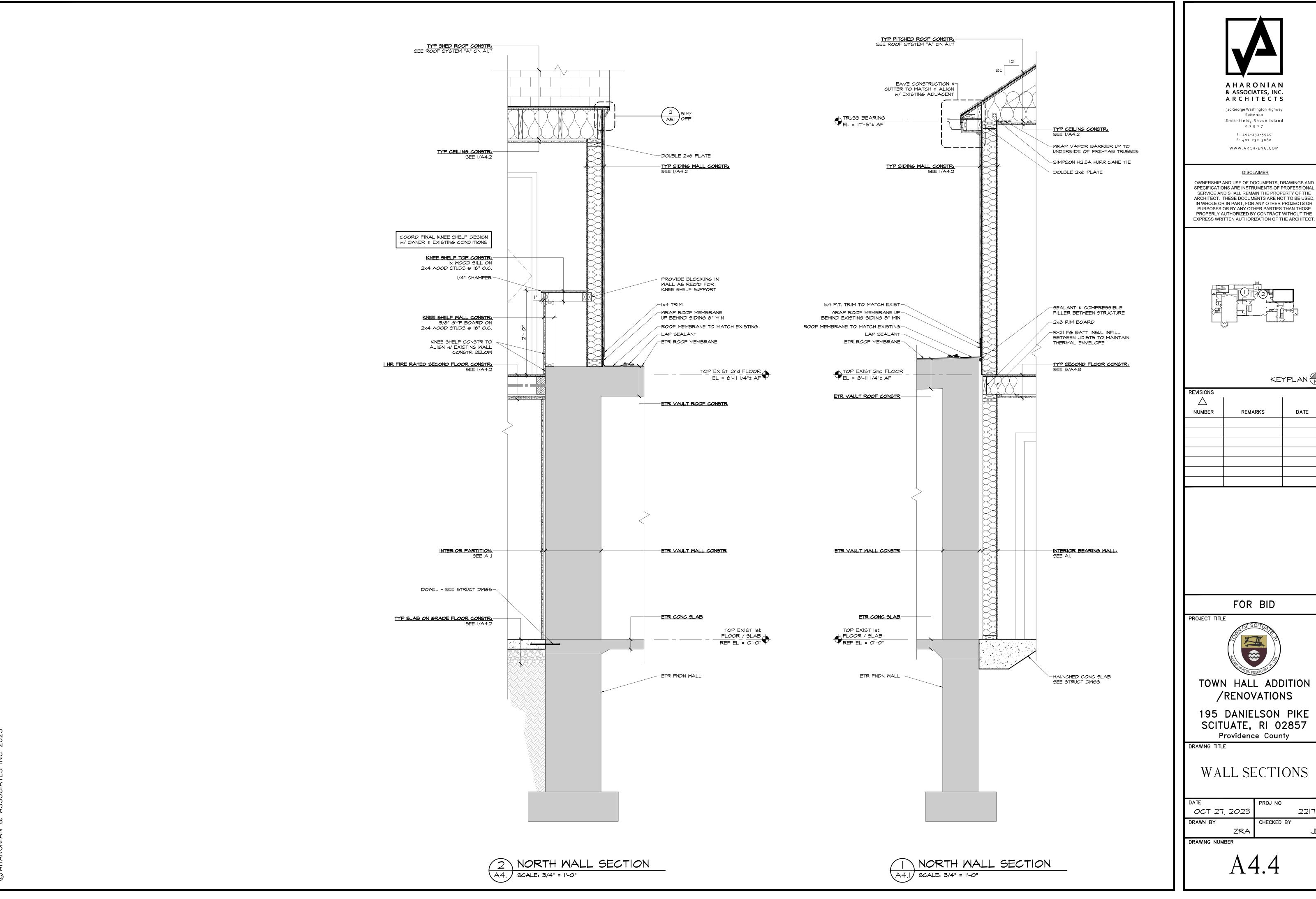
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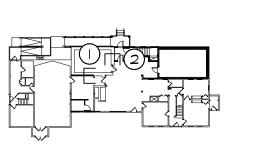


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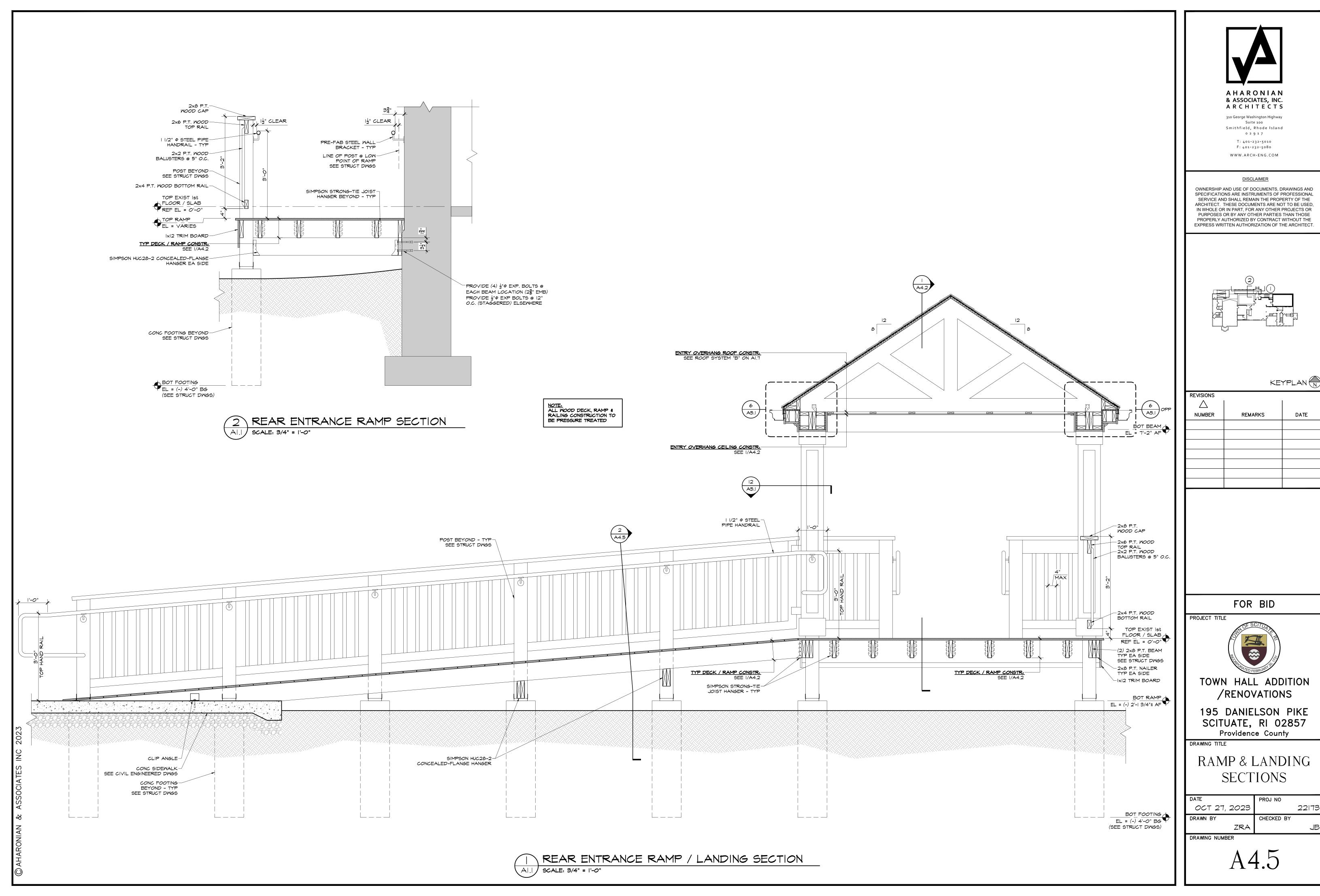


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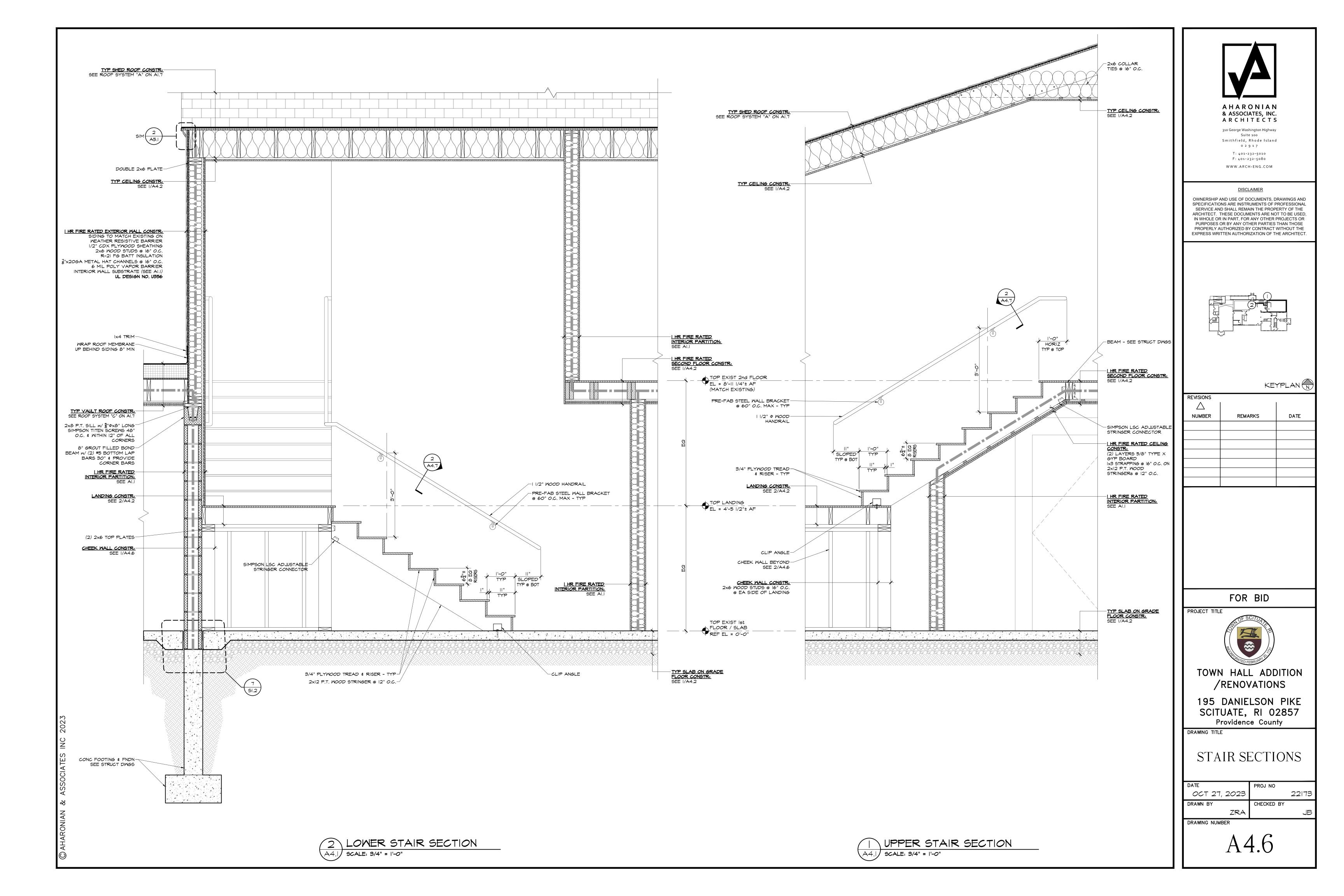
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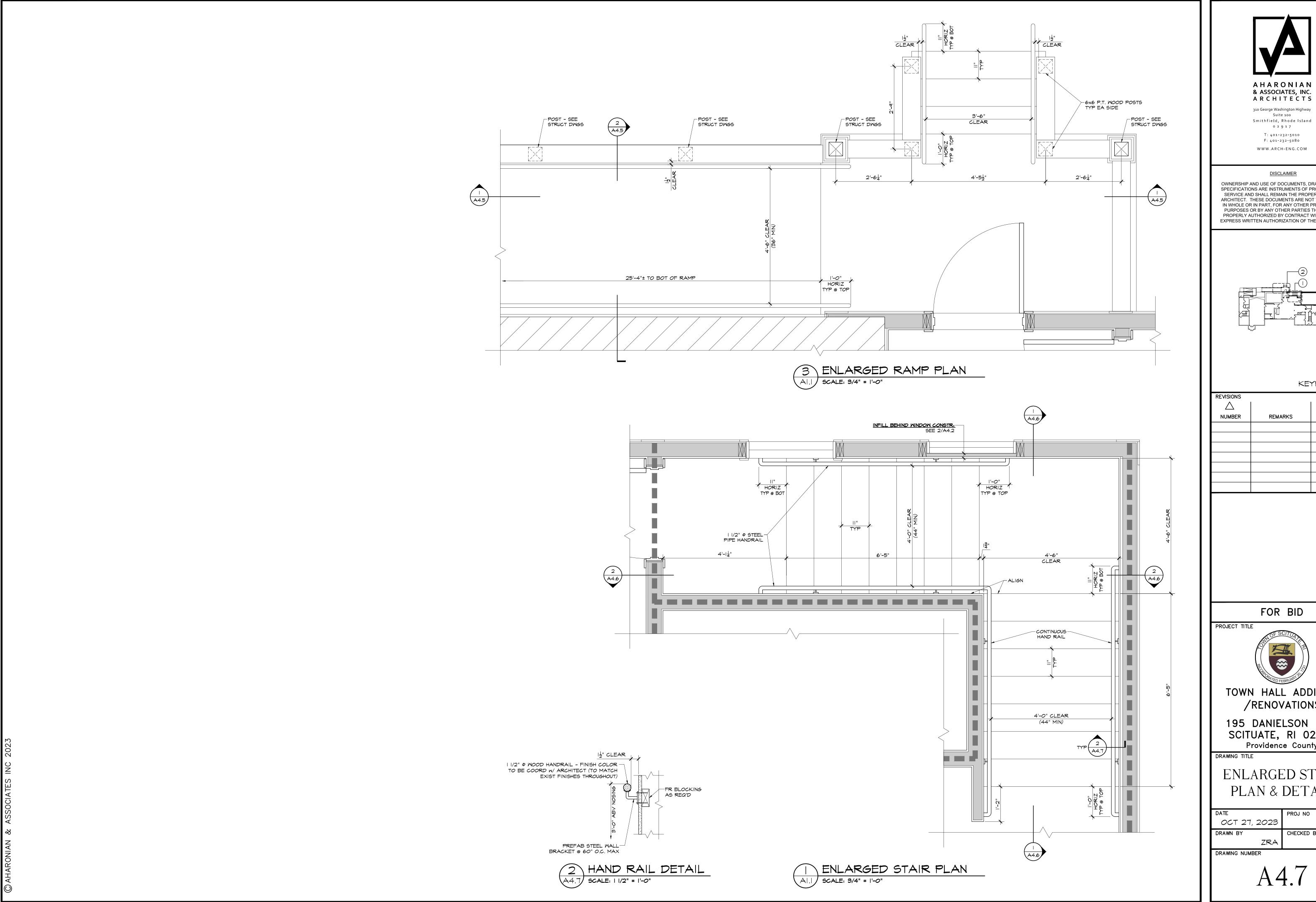
WALL SECTIONS

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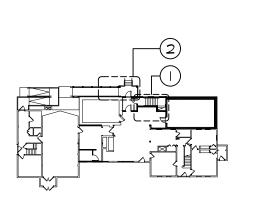


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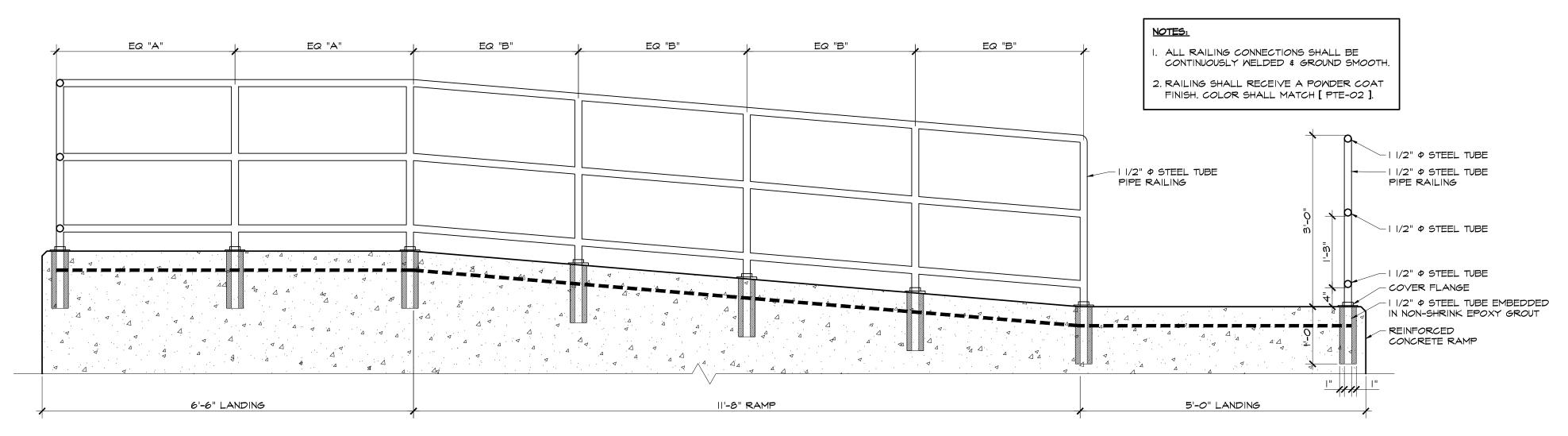


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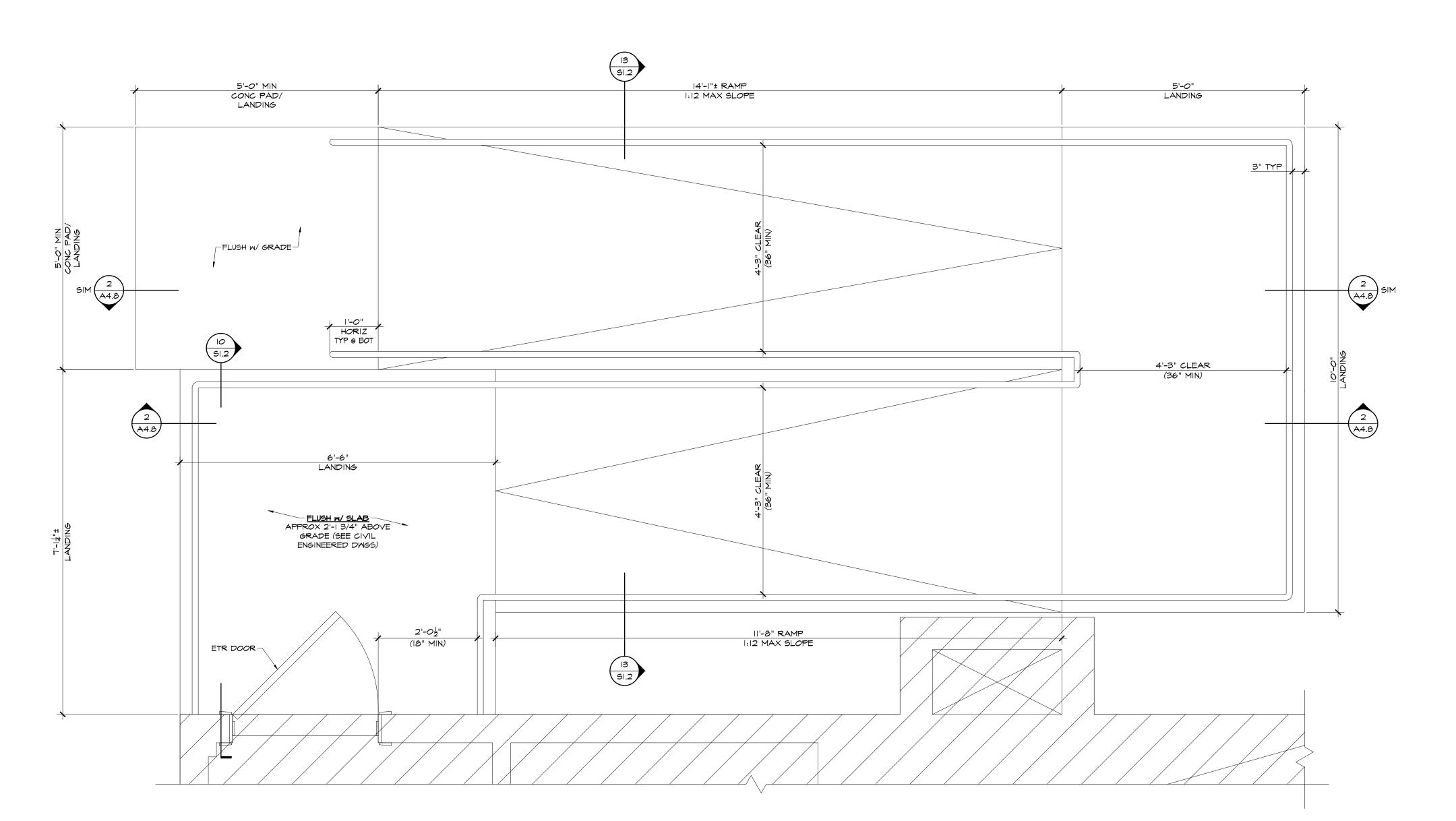
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Providence County

ENLARGED STAIR PLAN & DETAIL

ı	DATE	PROJ NO	
	OCT 27, 2023		22173
	DRAWN BY	CHECKED BY	
	ZRA		JB
	DRAWING NUMBER		



2 RAMP SECTION / ELEVATION A4.8 SCALE: 3/4" = 1'-0"







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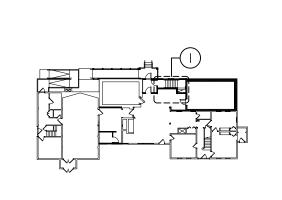
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NUMBER	REMARKS	DATE

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PROJECT TITLE



TOWN HALL ADDITION /RENOVATIONS

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Providence County

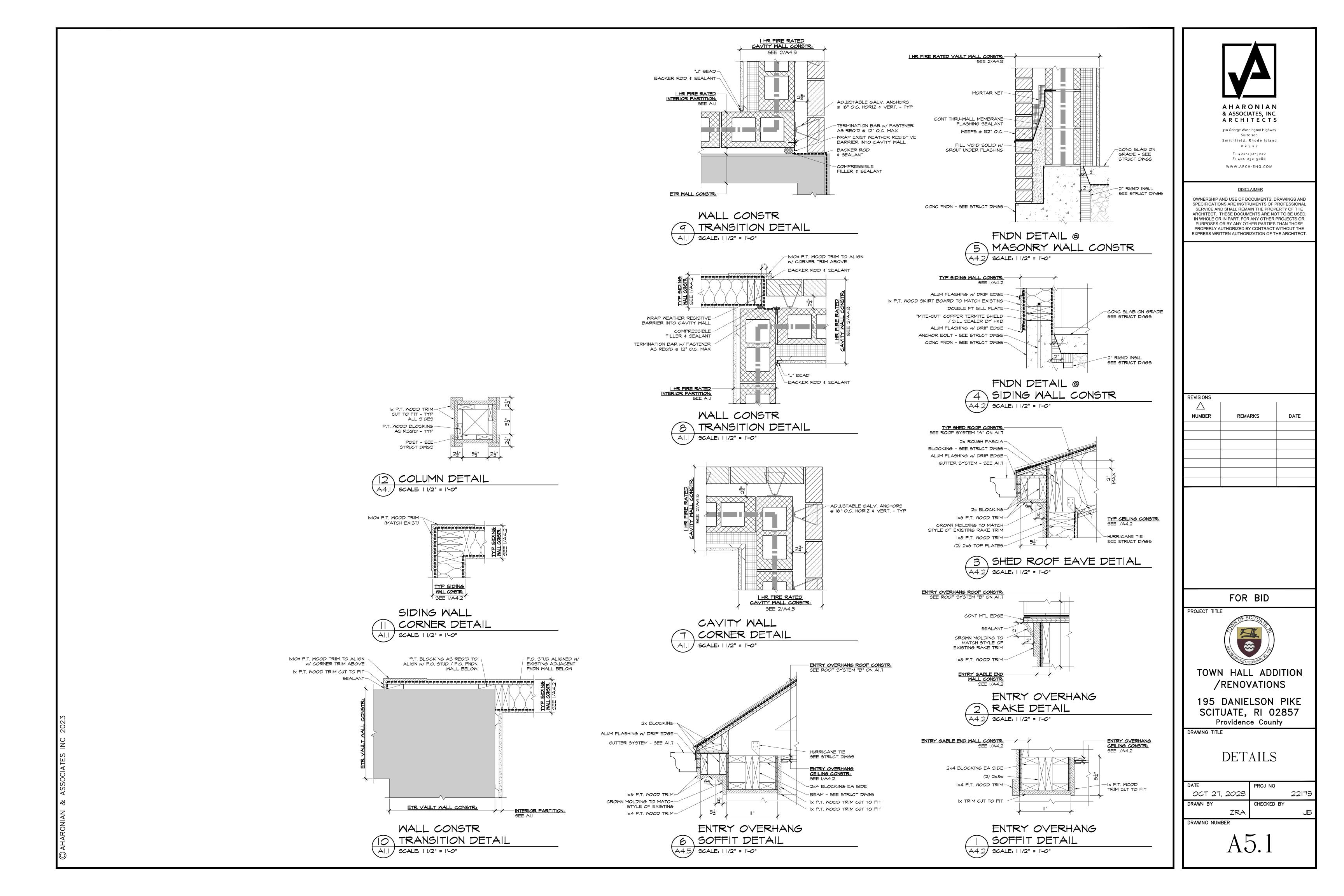
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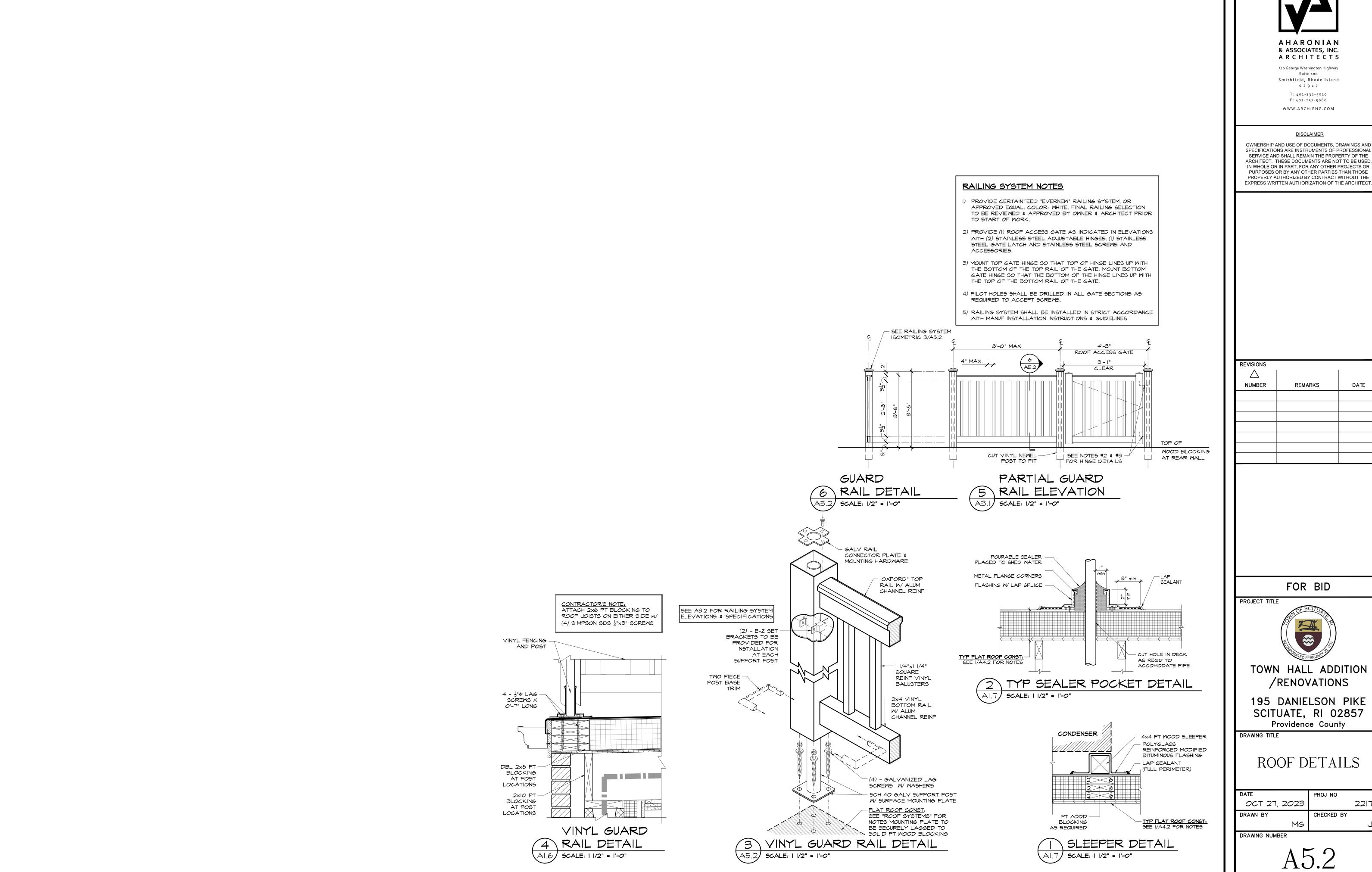
ENLARGED RAMP PLAN & DETAIL

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OCT 27, 2023		22173
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& ASSOCIATES, INC. ARCHITECTS

T: 401-232-5010

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TOWN HALL ADDITION /RENOVATIONS

195 DANIELSON PIKE SCITUATE, RI 02857

ROOF DETAILS

PROJ NO CHECKED BY

A5.2

FINISH CARPENTRY & MILLWORK SPECS

- I. THE "QUALITY STANDARDS" OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) SHALL APPLY AND ARE HEREBY MADE A PART OF THE PROJECT. ALL WORK AND MATERIALS SHALL BE "PREMIUM GRADE" AS DEFINED BY AWI.
- 2. CONTRACTOR WILL VERIFY ALL DIMENSIONS AND REFLECT ON SHOP DRAWINGS.
- 3. WOOD PRODUCTS:
 A. MOISTURE RESISTANT MEDIUM DENSITY FIBERBOARD (MDF)
 CORE HARDWOOD PLYWOOD: PROVIDE PHENOLIC OR MDI
 BONDED MDF-CORE HARDWOOD PLYWOOD ASSEMBLED WITH
 PUREBOND FORMALDEHYDE-FREE TECHNOLOGY BY COLUMBIA
 FOREST PRODUCTS OR APPROVED EQUAL.

I. CORE CONSTRUCTION SHALL BE FSC-CERTIFIED PMDI

- BONDED MDF.

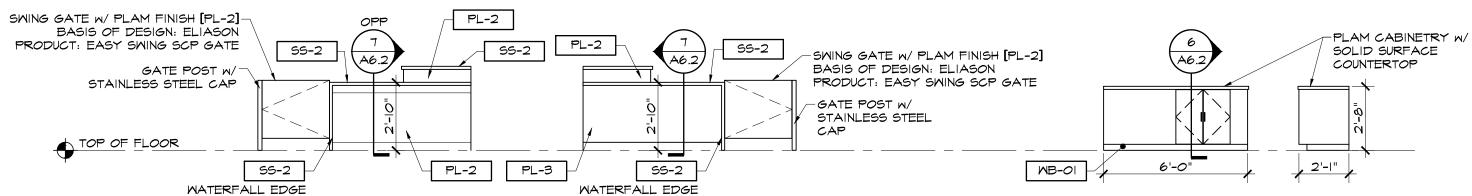
 B. TOE KICKS SHALL BE 3" EXTERIOR GLUE LAMINATED PLYWOOD OR HARDWOOD. SILICONE SEALED AT FLOOR IN WET AREAS.

 C. PLEASE NOTE THAT PARTICLE FLAKE BOARD IS NOT ALLOWED IN ANY CASEWORK.
- 4. COUNTERTOPS: A. PROVIDE SOLID SURFACE COUNTERTOPS AS MANUFACTURED BY WILSONART; COLOR: AS SPECIFIED; HIGH GLOSS FINISH, EASED EDGE, ³/₄" THICKNESS W/ 1½" FACE
- 5. STANDARD DECORATIVE LAMINATES:
 A. ACCEPTABLE PRODUCT: WILSONART, ARBORITE & NEVAMAR
 AS SPECIFIED.
 B. PRODUCT DESCRIPTION: DECORATIVE SURFACE PAPERS,
 IMPREGNATED WITH MELAMINE RESINS, BONDED UNDER HEAT AND
 PRESSURE TO KRAFT PAPERS IMPREGNATED WITH PHENOLIC
- RESINS.

 C. STANDARD DECORATIVE LAMINATE GENERAL PURPOSE
 TYPE

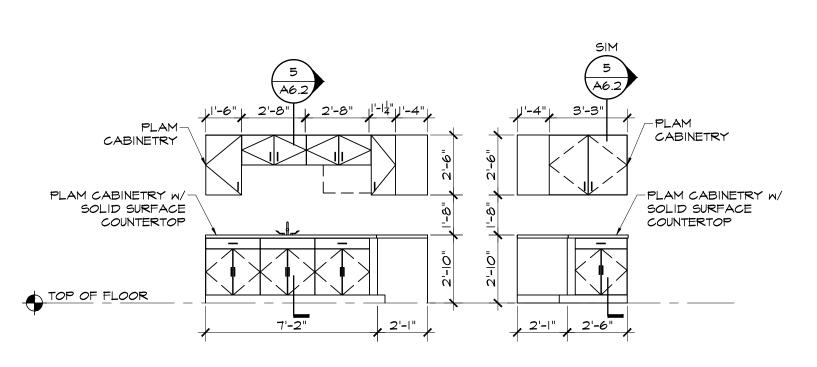
- 6. ALL CABINETS INTERIORS SHALL BE FINISHED WITH WHITE P-LAM TEXTURE SUPER MATTE, EXCEPT INTERIOR DRAWER FRONTS. ALL LOWER CABINET SHALL HAVE 3" RECESSED TOE KICK TO RECEIVE VINYL WALL BASE.
- 7. CABINET HARDWARE A.HINGED DOORS
- 1. HINGES: BLUM 170 CONCEALED HINGES
 2. DOORS: 36 INCHES AND MORE IN HEIGHT SHALL HAVE THREE HINGES; LESS THAN 36 INCHES IN HEIGHT SHALL HAVE TWO HINGES. EACH DOOR SHALL CLOSE AGAINST TWO RUBBER
- 3. FASTENERS: PROVIDE FULL THREAD WOOD SCREWS TO FASTEN HINGE LEAVES TO DOOR AND CABINET FRAME. FINISH SCREWS TO MATCH FINISH OF HINGES.
- B. DOOR CATCHES

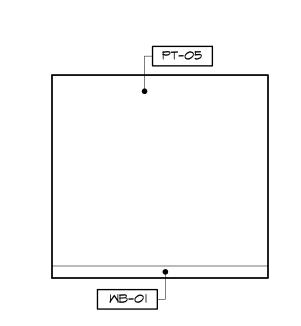
 I. MAGNETIC TYPE, FABRICATED WITH METAL HOUSING.
- C. CABINET LOCKS: CORBIN #02066 WITH GEK KEY
 D. DOOR PULLS: STANLEY 30 SERIES WIRE PULL BLACK
 E. CABINET SHELF SUPPORTS: KNAPE & VOGT KV255 SHELF
 STANDARDS & 256 SUPPORTS
- D. TAB DRAWER PULL: MOCKETT DP3C 6" MATTE BLACK 90
- 8. COUNTER SUPPORT BRACKET
 A. RAKKS COUNTER SUPPORT BRACKET AS MANUFACTURED BY
 THE RANGINE CORPORATION.
- B. MODEL: EH-1212 FOR COUNTERTOP DEPTHS UP TO 18". C. MODEL: EH-1818 FOR COUNTERTOP DEPTHS UP TO 25". D. FINISH: OFF-WHITE POWDER COAT.
- 9. GROMMET
 A. MOCKETT XG FLIP TOP 3"Φ TYP COLOR BLACK (U.N.O.)

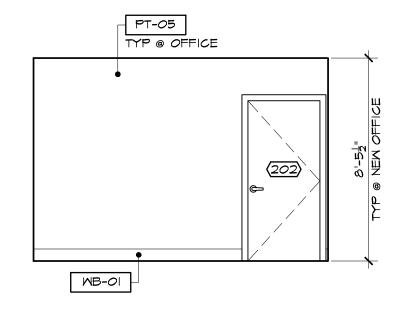


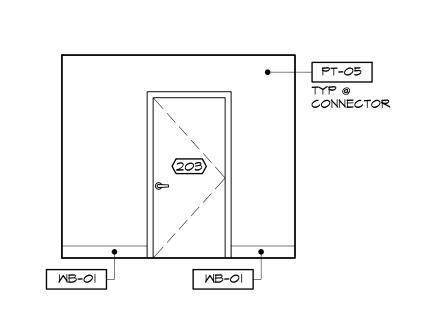
16 TRANSACTION COUNTER ELEVATION
AI. | SCALE: 1/4" = 1'-0"

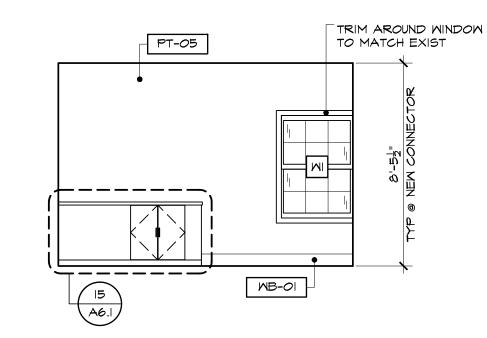












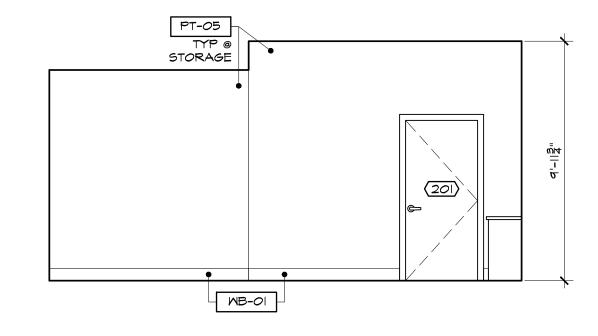


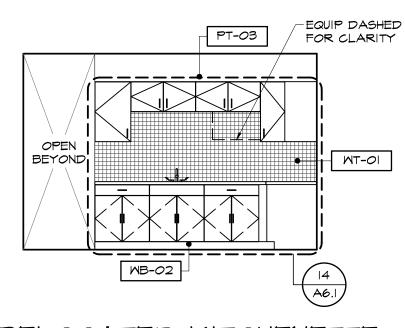


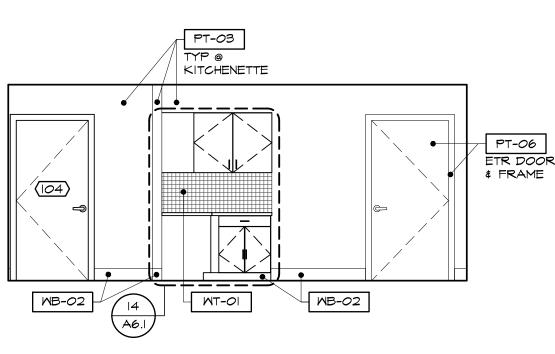


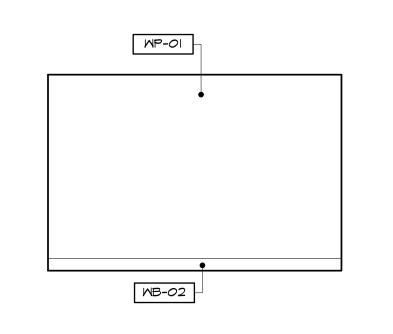


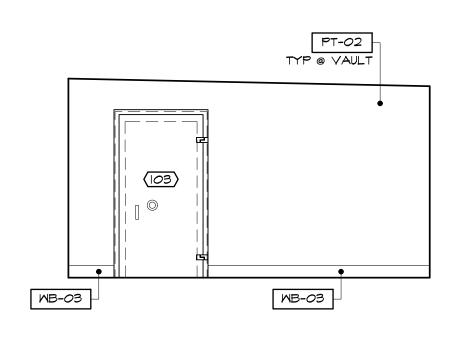












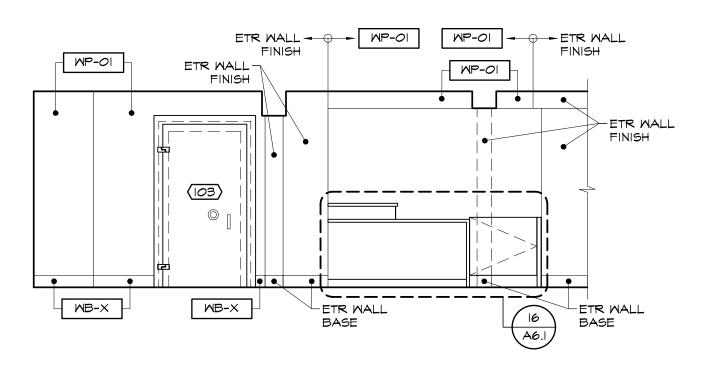


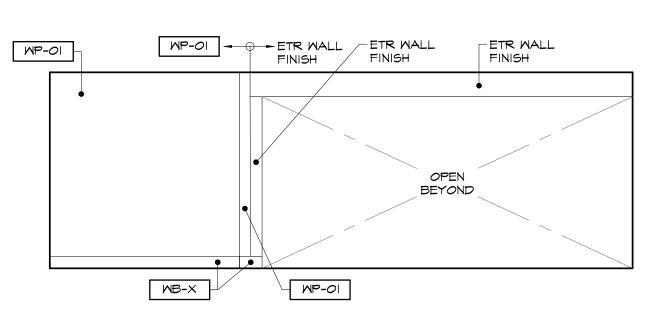


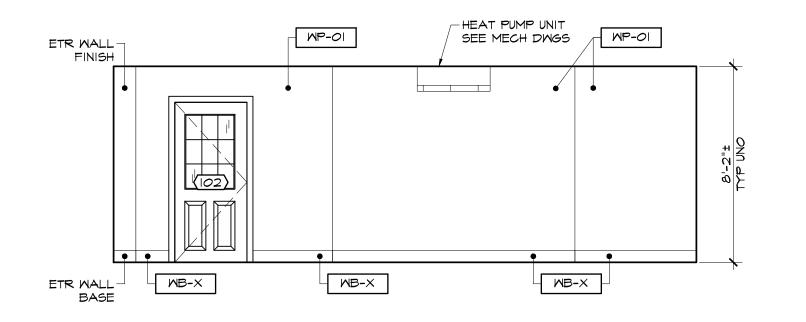


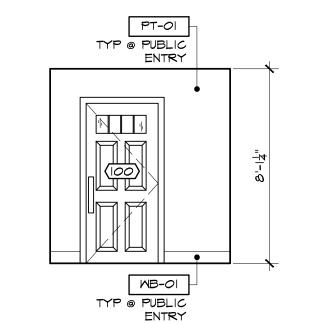












4 EXPANDED LOBBY ELEVATION
AI. | SCALE: 1/4" = 1'-0"







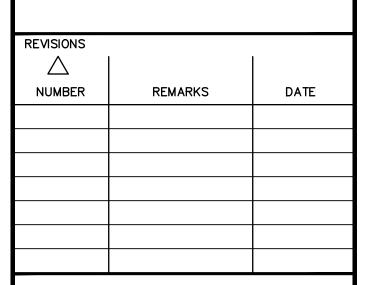


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FOR BID

PROJECT TITLE



TOWN HALL ADDITION /RENOVATIONS

195 DANIELSON PIKE SCITUATE, RI 02857
Providence County

DRAWING TITLE

INTERIOR ELEVATIONS

DATE	PROJ NO
OCT 27, 2023	22173
DRAWN BY	CHECKED BY
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NG NUMBER

A6.1

XX-XX FINISH SCHEDULE

MANUFACTURER

WILSONART

WILSONART

WILSONART

WILSONART

WILSONART

MANUFACTURER

SHERWIN WILLIAMS

SHERWIN WILLIAMS

SHERWIN WILLIAMS

SHERWIN WILLIAMS

SHERWIN WILLIAMS

SHERWIN WILLIAMS

DAL TILE

MAPEI

2) PROVIDE ANCHORS & BLOCKING AS REQD FOR MOUNTING ALL ACCESSORIES.

KC PROFESSIONAL

KAY CHEMICAL COMPANY

AMERICAN SPECIALTIES, INC. 024555

PRODUCT #

PRODUCT #

KEYSTONES

EXISTING ACCESSORIES SHALL BE RELOCATED IN SIM LOCATIONS. GC TO ASSESS CONDITION OF EQUIP & REPLACE AS REQ'D.

MOUNT ALL TOILET ACCESSORIES IN STRICT ACCORDANCE WITH THE AMERICAN DISABILITIES ACT AND ICC/ANSI AII7.I 2009 EDITION.

DERMA FOAM E

0620-2436

MORNING ICE 9204CE

TRACELESS LAMINATE

TRACELESS LAMINATE

TRACELESS LAMINATE

YUKON RIVERSTONE 9196RS

CODE MATERIAL

PL-3 LAMINATE

CODE MATERIAL

PT-OI PAINT

PT-02 PAINT

PT-03 PAINT

PAINT

PAINT

PAINT (DOORS)

MALL TILE

WOOD PANEL

MALL BASE

VINYL WALL BASE

TOILET ACCESSORY SCHEDULE

DESCRIPTION

VERTICAL GRAB BAR

DESCRIPTION

TOILET PAPER HOLDER

PAPER TOWEL HOLDER

SOAP DISPENSER

MIRROR (18"x30")

REAR GRAB BAR

SIDE GRAB BAR

TOILET ACCESSORY SCHEDULE NOTES

GROUT

MB-02 MALL BASE

MB-X | MALL BASE

PT-04

PT-05

PT-06

MT-OI

GT-01

MP-01

MB-01

MB-03

PL-I

PL-2

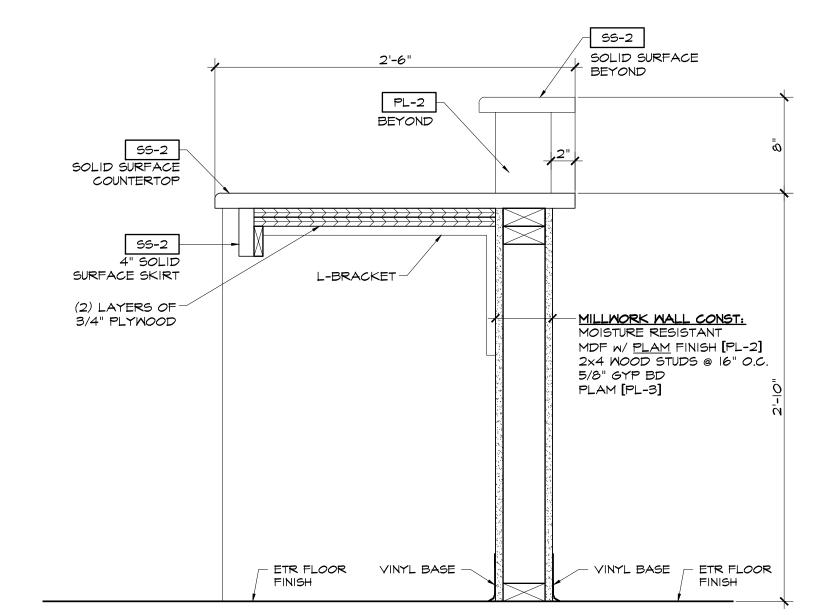
SS-I SOLID SURFACE

LAMINATE

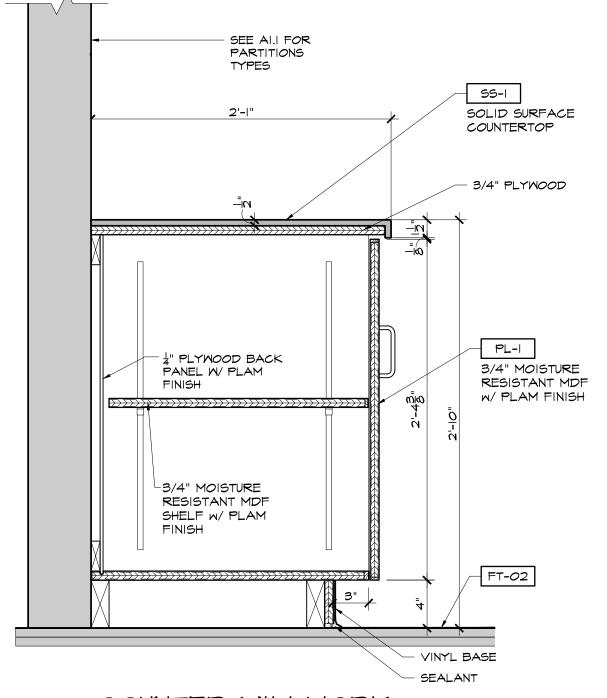
LAMINATE

XX-XX WALL FINISH SCHEDULE

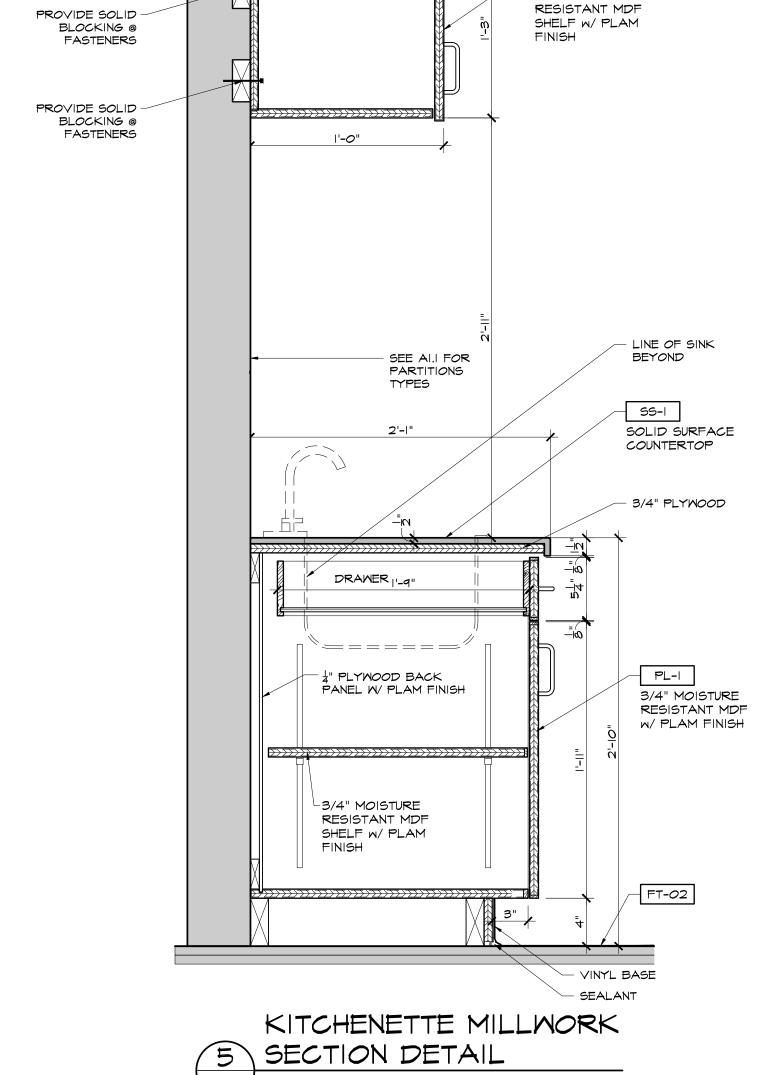
SS-2 | SOLID SURFACE



TRANSACTION COUNTER



COUNTER MILLWORK 6 SECTION DETAIL
A6.1 SCALE: 1 1/2" = 1'-0"



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

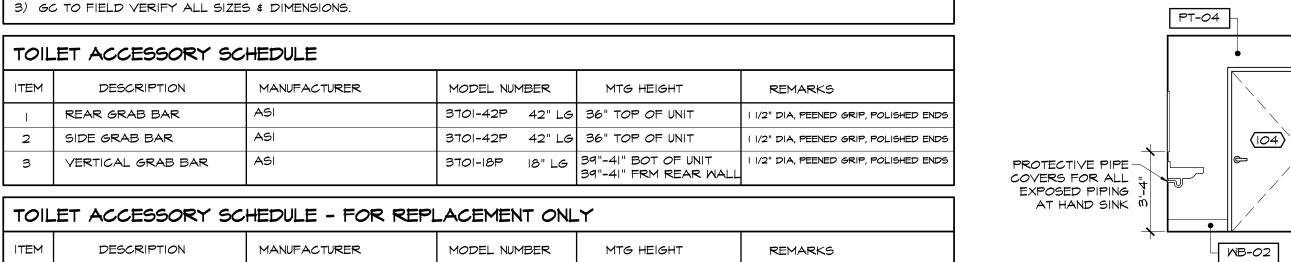
GYPSUM BOARD

CEILING

PL-I

3/4" MOISTURE

SECTION DETAIL SCALE: | |/2" = |'-0"



DESCRIPTION / REMARKS

DESCRIPTION / REMARKS

MATCH EXISTING

REUSE EXISTING

SEE Al.3 & Al.4

SEE AI.3 & AI.4

SEE Al.3 & Al.4

SEE Al.3 & Al.4

20" BOT OF UNIT

42" TO CONTROLS

REFLECTIVE SURFACE

COORD FINAL COLOR W/ OWNER

COLOR: AS SPECIFIED BY OWNER - ENTRY

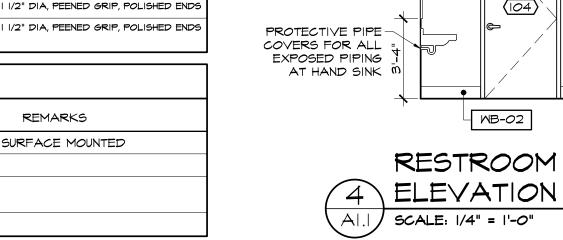
COLOR: AS SPECIFIED BY OWNER - VAULT

COLOR: AS SPECIFIED BY OWNER - KITCHENETTE

COLOR: AS SPECIFIED BY OWNER - OFFICE/STORAGE/CONNECTOR

2x2 MOSAIC - COORD FINAL COLOR W/ OWNER THROUGH GROUP 1-4

COLOR: AS SPECIFIED BY OWNER - RESTROOM

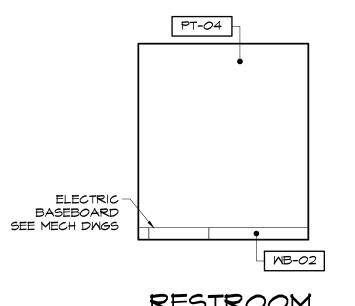


RESTROOM

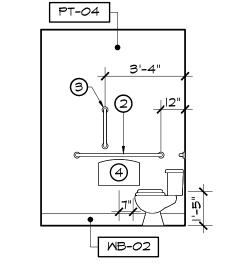
SCALE: 1/4" = 1'-0"

FINAL MILLWORK DETAILS TO BE REVIEWED BY

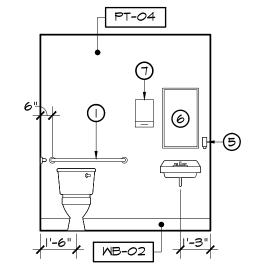
OWNER / ARCHITECT PRIOR TO START OF WORK. DETAILS / SPECS SHOWN ARE FOR BID PURPOSES











RESTROOM T ELEVATION SCALE: 1/4" = 1'-0"



ARCHITECTS 310 George Washington Highway Suite 100 Smithfield, Rhode Island

T: 401-232-5010 F: 401-232-5080

02917

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REVISIONS	1	1
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NUMBER	REMARKS	DATE

FOR BID

PROJECT TITLE



TOWN HALL ADDITION /RENOVATIONS

195 DANIELSON PIKE SCITUATE, RI 02857

Providence County DRAWING TITLE

INTERIOR ELEVATIONS, SCHEDULES & DETAILS

DATE	PROJ NO	
OCT 27, 2023		22173
DRAWN BY	CHECKED BY	
CN		JB

DRAWING NUMBER

A6.2

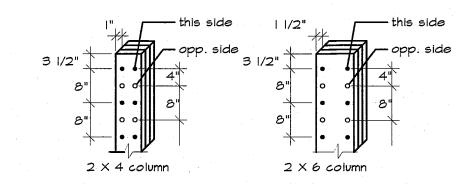
GENERAL NOTES - STRUCTURAL LUMBER, ENGINEERED LUMBER

- 1) ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "TIMBER CONSTRUCTION STANDARDS" OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" OF THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- 2) THE MINIMUM GRADES AND DESIGN VALUES REQUIRED FOR STRUCTURAL LUMBER SHALL

SPRUCE-PINE-FIR CONSTRUCTION GRADE

JOISTS, RAFTERS, HEADERS AND BEAMS: SPRUCE-PINE-FIR #2 OR BETTER Fb=875 PSI E=1,400,000 PSI

- 3) ALL EXTERIOR WALL STUDS SHALL BE 2 X 6 @ 16" OC. ALL INTERIOR BEARING WALL STUDS SHALL BE 2 X 6 @ 16" OC. REFER TO PLANS FOR ANY EXCEPTION.
- 4) ALL MULTIPLE MEMBER BEAMS, HEADERS & TRUSSES SHALL BE SUPPORTED ON NOT LESS THAN AN EQUAL NUMBER OF STUDS AT EACH END, UNLESS NOTED OTHERWISE.
- 5) WOOD COLUMNS MADE WITH THREE OR MORE WOOD STUDS SHALL BE NAILED TOGETHER MITH 16d NAILS. NAIL SPACING SHALL BE IN 2 ROWS, SPACED 8" OC FROM BOTH SIDES STAGGERED 4" APART.



- 6) ALL EXTERIOR OPENINGS SHALL HAVE NOT LESS THAN TWO JACK STUDS AND TWO FULL HEIGHT STUDS AT EACH SIDE OF THE OPENING UNLESS NOTED OTHERWISE. ALL INTERIOR BEARING WALL OPENINGS SHALL HAVE NOT LESS THAN TWO JACK STUDS AND ONE FULL HEIGHT STUD AT EACH SIDE OF THE OPENING UNLESS NOTED OTHERWISE.
- 7) ALL ROOF RAFTERS & JOISTS SHALL HAVE (I) SIMPSON H2.5A HURRICANE CLIP AT SEAT/TOP PLATE CONNECTION. REFER TO PLANS AND DETAILS FOR TYPE AND LOCATION. USE SIMPSON LSSU SKEWED AND/OR SLOPPED HANGERS AT EACH RAFTER AS REQD.
- 8) ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WITH PRESERVATIVE.
- 9) EXTERIOR WALL SHEATHING SHALL BE MINIMUM 15/32 APA STRUCTURAL I RATED SHEATHING OR EXTERIOR GRADE. SEE FRAMING PLAN AND DETAILS FOR FASTENING.
- 10) ROOF SHEATHING SHALL BE APA STRUCTURAL I RATED SHEATHING EXPOSURE I OR EXTERIOR GRADE, MINIMUM THICKNESS AS LISTED ON DRAWINGS. . SHEATHING SHALL BE NAILED WITH IOD NAILS NOT LESS THAN 6" OC ON ALL SUPPORTED PANEL EDGES. "H" CLIPS SHALL BE USED AT ALL UNSUPPORTED EDGES. NAIL TO INTERMEDIATE MEMBERS 12" OC. ADHESIVE USED SHALL BE WATERPROOF, MEETING THE REQUIREMENTS OF ASTM
- II) ALL SIMPSON CONNECTORS (HANGERS, STRAPS, UPLIFT CONNECTORS, POST CAPS, ETC) SHALL BE COATED WITH Z-MAX CORROSION RESISTANCE.
- 12) ALL ROOF TRUSSES AND OVERHANGING WOOD MEMBERS SHALL BE HELD DOWN WITH HURRICANE ANCHORS PER TRUSS MANUFACTURERS REQUIREMENTS.
- I3) WOOD TRUSSES SHALL BE DESIGNED PER THE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES", PUBLISHED BY THE TRUSS PLATE INSTITUTE.
- 14) WOOD TRUSS FABRICATOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION, SHOP DRAWINGS BEARING SEAL AND SIGNATURE OF THE DESIGN PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF RHODE ISLAND.
- 15) SHOP DRAWINGS SHALL INCLUDE BUT ARE NOT LIMITED TO: TRUSS LAYOUT PLAN; TRUSS DETAIL SHEETS SHOWING CONFIGURATION, DIMENSIONS, LOADS, MEMBER SIZES AND GRADES, MEMBER FORCES, CONNECTION PLATE SIZES, AND PERMANENT BRACING REQUIRED; TRUSS CONNECTION HANGERS FOR FLUSH FRAMING.
- 16) SEE GENERAL NOTES DESIGN LOADS FOR DESIGN LOADS ON TRUSSES.
- 17) WOOD TRUSS ERECTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL TEMPORARY ERECTION BRACING.
- 18) ENGINEERED LUMBER SHALL BE BY WEYERHAEUSER CORPORATION (FORMERLY TRUS JOIST); (888) 453-8358.
- 19) LVL (MICROLLAM 1.9E) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Ft = 1555 PSI, Fc(PERP) = 750 PSI Fc (PRLL)= 2510 PSI, Fv = 285 PSI, E = 1,900,000 PSI
- 20) PSL POSTS/COLUMNS (PARALLAM I.8E) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2400 PSI, Fc (PRLL)= 2500 PSI, E = 1,800,000 PSI
- 21) LVL'S & PSL'S SHALL BE FREE OF FINGER JOINTS, SCARF JOINTS OR MECHANICAL CONNECTIONS FOR THE FULL LENGTH OF THE MEMBER.
- 22) ADHESIVE USED SHALL BE WATERPROOF, MEETING THE REQUIREMENTS OF ASTM

FOUNDATION NOTES

- 1) ALL SOIL CONTAINING ORGANIC OR UNSUITABLE BEARING MATERIAL SHALL BE CLEARED FROM THE BUILDING FOOTPRINT.
- 2) ALL SOIL SUPPORTED FOOTINGS SHALL BE FOUNDED UPON COMPACTED NATURAL SUBGRADE OR COMPACTED BANK RUN GRAVEL FILL WITH AN ASSUMED SOIL BEARING CAPACITY OF NOT LESS THAN 2500 PSF. ASSUMED CAPACITY AND SUBSURFACE CONDITIONS TO BE FIELD VERIFIED BEFORE CONSTRUCTION. THIS OFFICE IS NOT QUALIFIED TO DETERMINE SOIL BEARING CAPACITIES OR SUBSURFACE PREPARATION.
- 3) ROCK SHALL BE EXCAVATED A MINIMUM OF 4" BELOW BOTTOM OF FOOTING ELEVATION AND COVERED WITH A LAYER OF COMPACTED GRAVEL.
- 4) A MODIFIED PROCTOR TEST SHALL BE PERFORMED BY A SOILS TESTING LAB ON EACH TYPE OF SOIL TO BE COMPACTED.
- 5) SOIL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY PER ASTM DI557 IN LIFTS NOT TO EXCEED 6" LOOSE DEPTH. REFER TO GEOTECHNICAL
- 6) FIELD DENSITY TESTS SHALL BE PERFORMED BY AN INDEPENDENT SOILS TESTING LAB TO VERIFY COMPACTION. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT.
- 7) BACKFILL SYMMETRICALLY AGAINST ALL FOUNDATION WALLS IN INCREMENTS NOT TO EXCEED 2 FEET MAXIMUM DIFFERENTIAL.
- 8) SEE PLUMBING AND ELECTRICAL DRAWINGS FOR UNDER SLAB SYSTEMS AND SPECIAL GRANULAR FILL MATERIAL REQUIREMENTS.
- 9) NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER OR ICE.
- IO) ALL SLABS-ON-GRADE SHALL BE PLACED ON A IO MIL VAPOR RETARDER OVER A MIN 6" COMPACTED FINE GRANULAR FILL LAYER.

6) A MIX DESIGN SHALL BE SUBMITTED FOR APPROVAL FOR EACH TYPE OF CONCRETE.

CONCRETE NOTES

CONTENT SHALL BE 4 1/2% TO 7%.

SHALL BE FILED WITH THE ARCHITECT.

7) ALL REINFORCING BARS SHALL BE ASTM A-615 GRADE 60 UNLESS NOTED

5) NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

1) ALL CONCRETE WALKS AND CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR ENTRAINING ADMIXTURE AND SHALL HAVE A

COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI @ 28 DAYS. AIR

2) ALL OTHER CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS

3) ALL CONCRETE SHALL CONTAIN AN APPROVED WATER-REDUCING ADMIXTURE.

4) A SET OF FOUR (4) CONCRETE TESTS CYLINDERS SHALL BE TAKEN BY AN

INDEPENDENT CONCRETE TESTING LAB ON EACH DAY WHEN CONCRETE

PLACEMENT EXCEEDS 5 CUBIC YARDS. ONE CYLINDER SHALL BE BROKEN AT 7 DAYS, TWO AT 28 DAYS, AND ONE AT 56 DAYS. A COPY OF ALL TEST REPORTS

THAN 3000 PSI @ 28 DAYS AND CONTAIN NO AIR ENTRAINMENT.

- 8) CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT, SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL PRIOR TO FABRICATION.
- 9) ALL REINFORCING BAR SPLICES SHALL CONFORM TO REQUIREMENTS OF ACI 318, BUT IN NO CASE SHALL THEY BE LESS THAN 2'-O"
- 10) DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCING.
- II) CONSTRUCTION JOINTS IN ALL WALLS SHALL BE NOT FURTHER APART THAN 60 FEET IN ANY DIRECTION. SEE PLAN FOR LOCATION OF SLAB CONSTRUCTION AND/OR SHRINKAGE JOINTS.
- 12) ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, Fy=60 KSI
- 13) ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AT SIDES AND ENDS AND BE SECURELY WIRED TOGETHER.
- 14) SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS AND CUT OUTS.
- 15) COORDINATE ALL FOUNDATION PENETRATIONS WITH ARCHITECT, PLUMBING, MECHANICAL, ELECTRICAL CONTRACTORS AND LOCAL AGENCIES.

<u>DESIGN LOADS</u> (EXCEPT AS NOTED)

CODE - RISBC-I RHODE ISLAND BUILDING CODE (REF: INTERNATIONAL BUILDING CODE, 2018 EDITION) STATE REHABILITATION & FIRE SAFETY CODE

SLAB LOADS RETAIL AREAS (FIRST FLOOR) ______ 100 PSF STORAGE AREAS (LIGHT) ______ 125 PSF CONCENTRATED LOAD _____ 1000 LBS

FROST DEPTH - (RI STATE BUILDING CODE): ASSUMED SOIL BEARING CAPACITY (TO BE FIELD VERIFIED) : _____ 2500 PSF

SEISMIC FACTORS SEISMIC DESIGN CRITERIA:

GROUND ACCELERATIONS Ss=0.173 Si=0.061 DESIGN ACCELERATIONS Sds=0.185 Sdi=0.098

SEISMIC IMPORTANCE FACTOR 10=1.0

OCCUPANCY CATEGORY II

SEISMIC DESIGN CATEGORY B

SITE CLASS D (PRESUMED) ANALYSIS PROCEDURE (EQUIVALENT LATERAL FORCE)

LATERAL RESISTING FORCE SYSTEM (LIGHT FRAMED BEARING WALLS W/ WOOD STRUCTURAL PANELS)

RESPONSE MODIFICATION COEFFICIENT R= 6 1/2 SEISMIC RESPONSE COEFFICIENT Cs= 0.028

ROOF LOADS

GROUND SNOW LOAD (Pg) _____ 35 PSF (PLUS DRIFT) FLAT ROOF SNOW LOAD (PF) ______ 30 PSF (PLUS DRIFT) TOP CHORD DEAD LOAD ______ IO PSF BOTTOM CHORD DEAD LOAD ______ 10 PSF MIN ROOF LIVE LOAD ______ 20 PSF WIND SPEED ______ 124 MPH WIND EXPOSURE CATEGORY _____

AHARONIAN

& ASSOCIATES, INC. ARCHITECTS

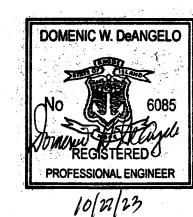
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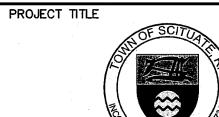
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NUMBER	REMARKS	DATE
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TOWN HALL ADDITION /RENOVATIONS

195 DANIELSON PIKE SCITUATE, RI 02857 Providence County

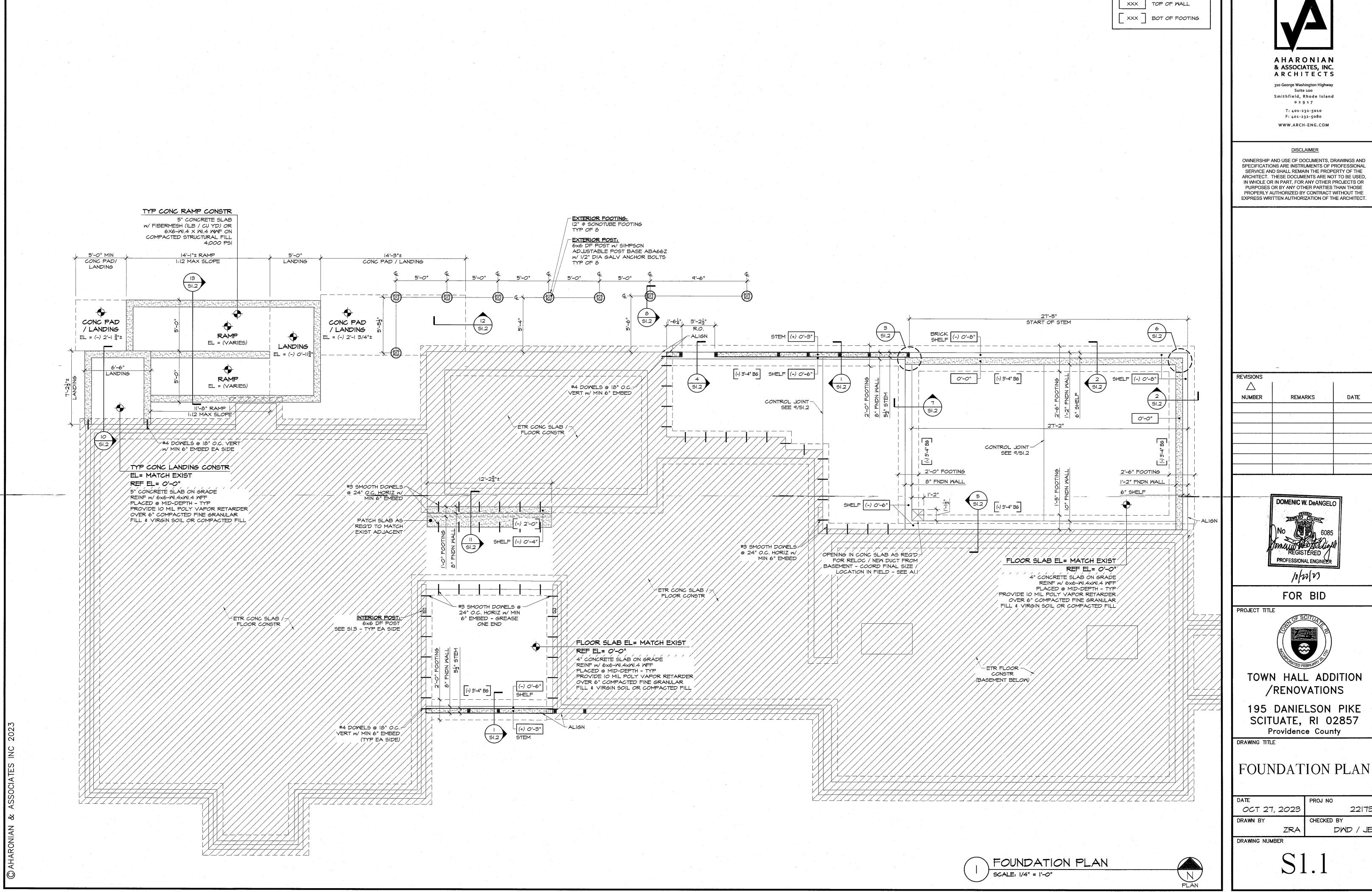
DRAWING TITLE

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STRUCTURAL NOTES

PROJ NO OCT 27, 2023 22175 CHECKED BY ZRA DMD / JB

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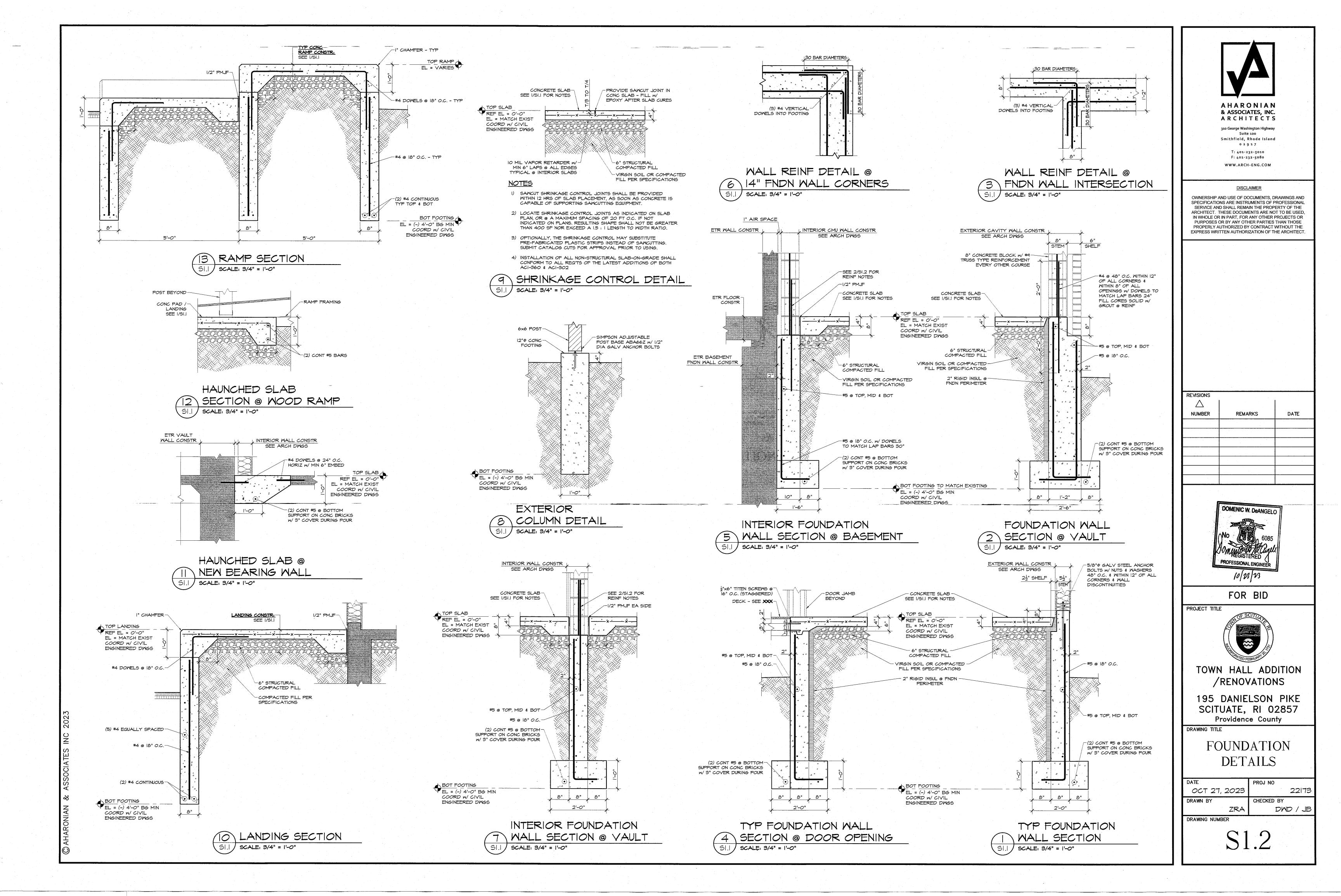


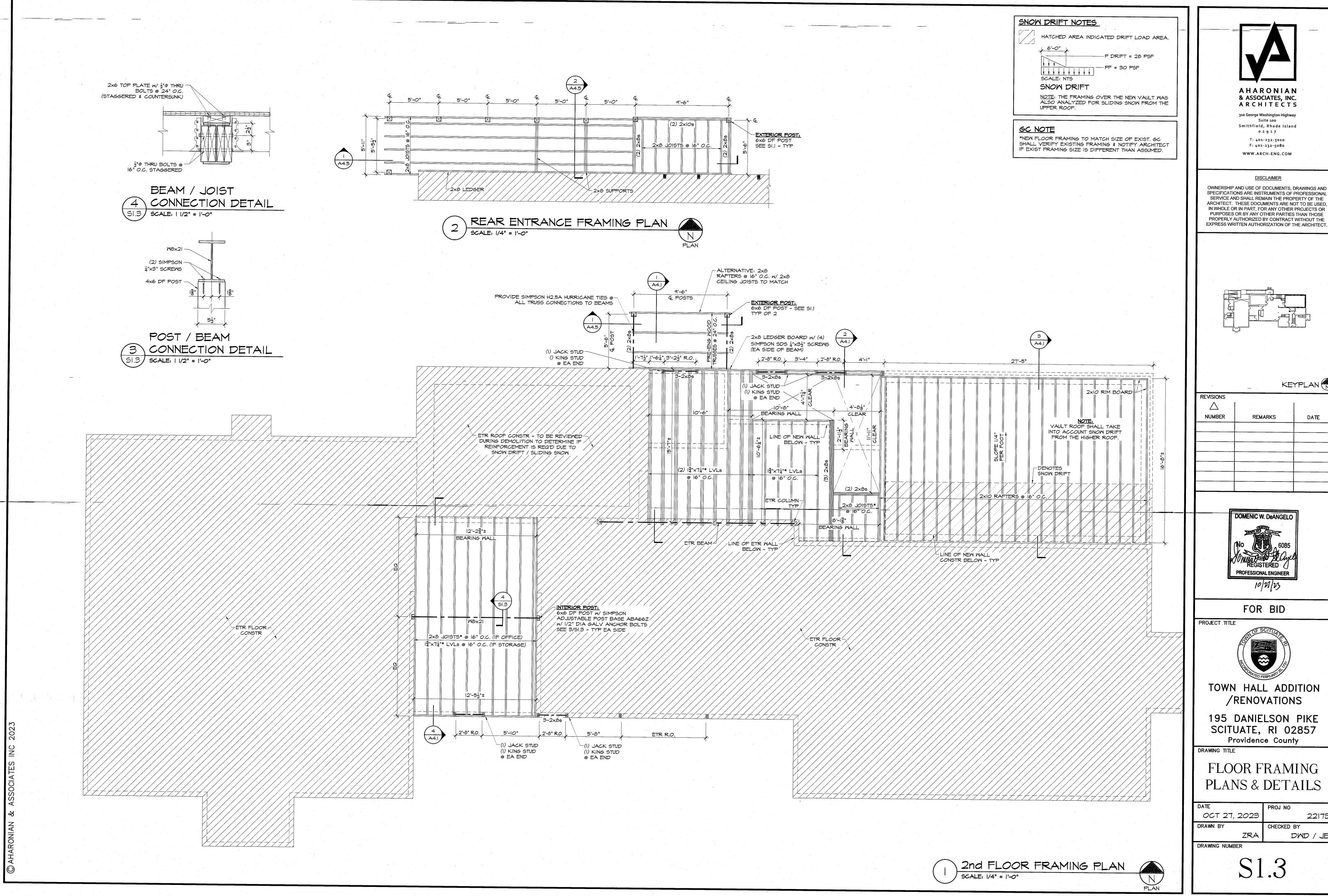
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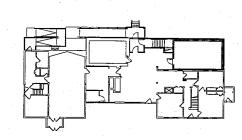




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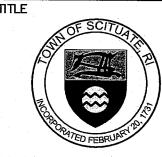
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KEYPLAN (N

DATE





TOWN HALL ADDITION /RENOVATIONS

SCITUATE, RI 02857 Providence County

FLOOR FRAMING PLANS & DETAILS

PROJ NO
22173
CHECKED BY
DWD / JB

PROVIDE SIMPSON H2.5A HURRICANE TIES @-ALL RAFTER / TRUSS CONNECTIONS TO WALLS PROVIDE SOLID BLOCKING BETWEEN RAFTERS MAX 2" GAP BETWEEN UNDERSIDE OF PLYWOOD TO OP OF BLOCKING 3-2×8s (I) JACK STUD-(1) KING STUD @ EA END (I) JACK STUD (I) KING STUD @ EA END LINE OF ETR WALL - BELOW - TYP PROVIDE CHEEK WALL TO THE UNDERSIDE OF RAFTERS 3-2×8s RAFTERS OVERFRAMED PRE-ENG WOOD TRUSSES @ 24" O.C.

ALTERNATIVE: 2xIO RAFTERS @ 16" O.C.

W/ 2xIO CEILING JOISTS TO MATCH TRUSSES OVERFRAMED ONTO ETR ROOF STRUCTURE ETR ROOF -FRAMING ROOF FRAMING MATCH ETR ROOF FRAMING PITCH # ALIGN W/ ETR ADJACENT FRAMING ETR RIDGE 2'-8" R.O. 5'-10" (I) JACK STUD (I) KING STUD @ EA END (I) JACK STUD (I) KING STUD @ EA END





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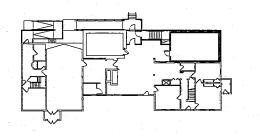
Suite 100 Smithfield, Rhode Island 02917

310 George Washington Highway

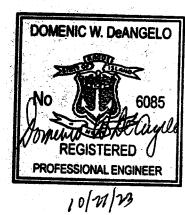
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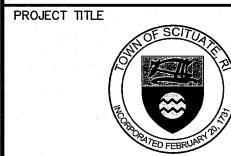
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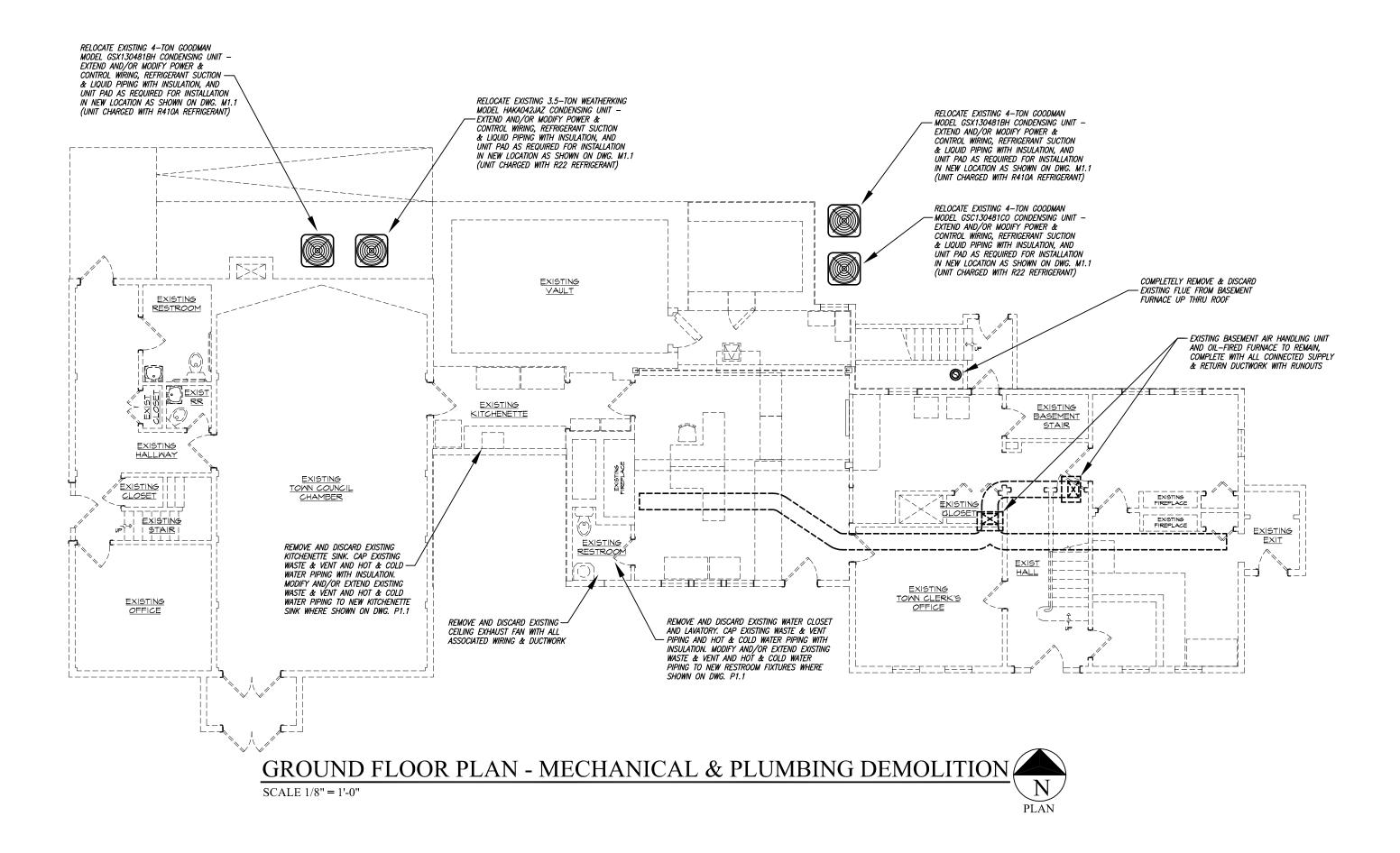
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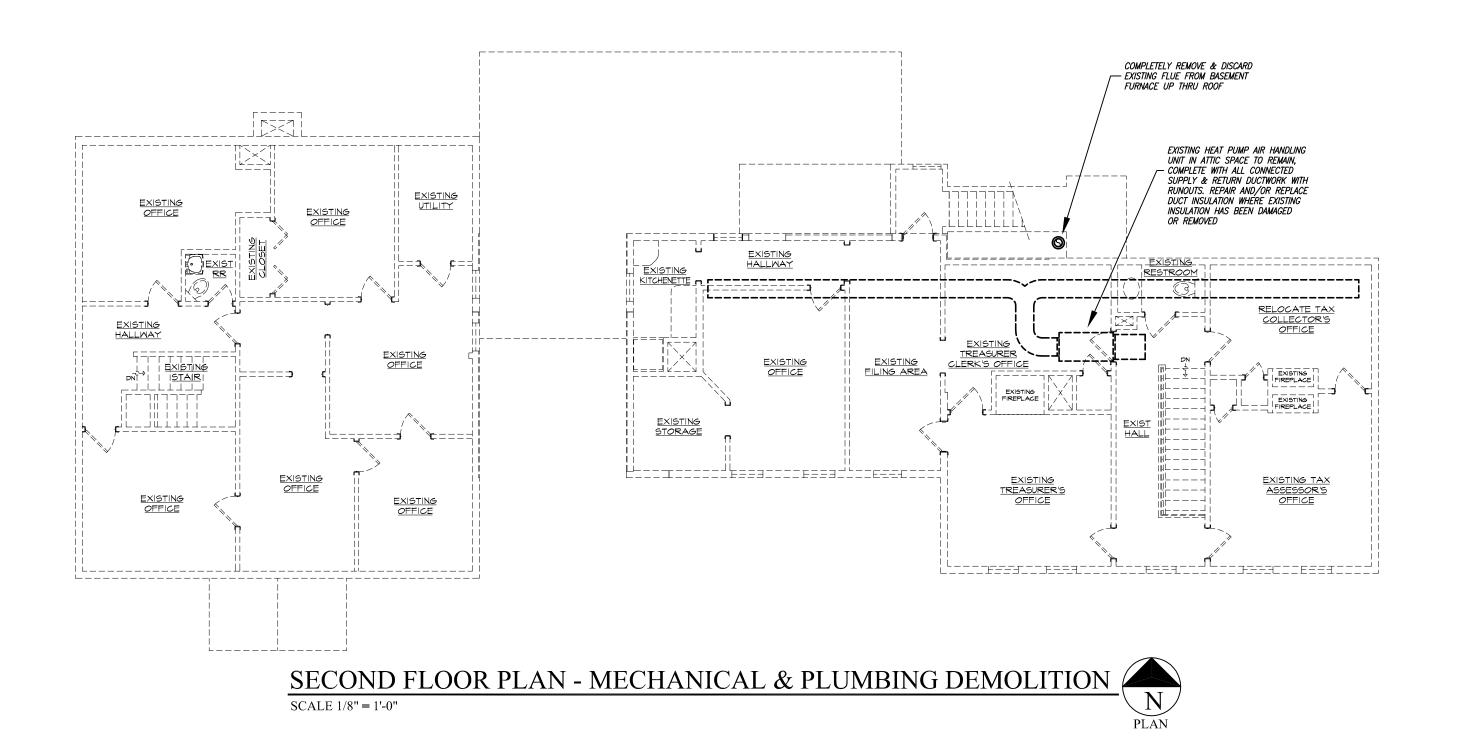
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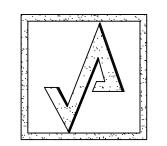
DRAWING TITLE

ROOF FRAMING PLAN

DATE	PROJ NO
OCT 27, 2023	22173
DRAWN BY	CHECKED BY
ZRA	DMD / JB
DRAWNG NUMBER	







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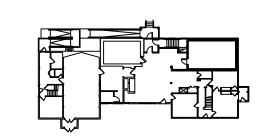
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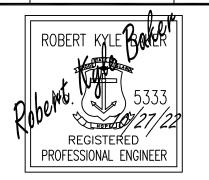




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NUMBER REMARKS DATE



R.K. BAKER & ASSOCIATES

ENGINEERS AND CONSULTANTS
21 BURDICK DRIVE
CRANSTON, RI 02920
(401) 374-5106

FOR CONSTRUCTION



TOWN HALL ADDITION /RENOVATIONS

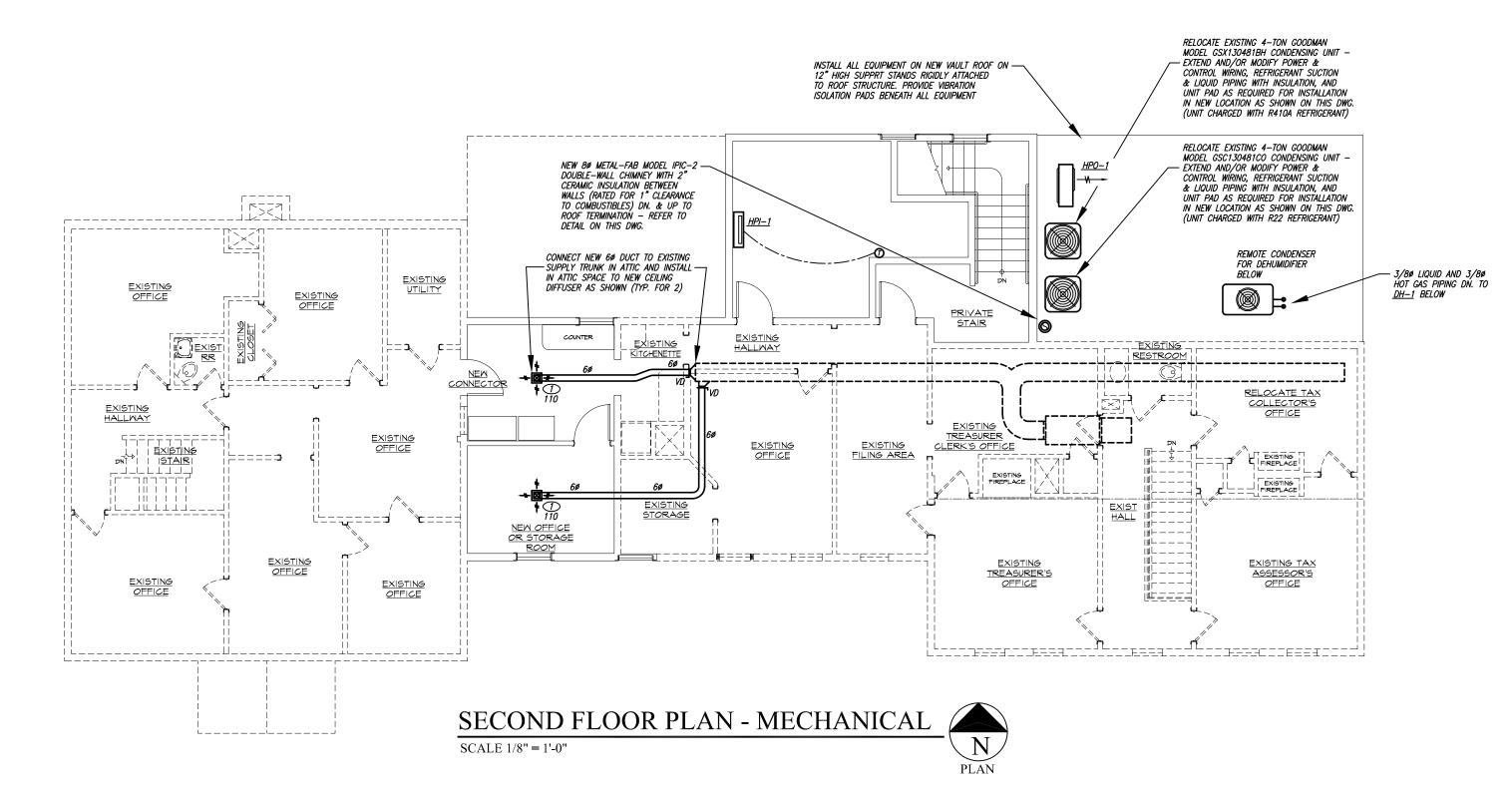
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Providence County

MECHANICAL & PLUMBING DEMOLITION

DATE	PROJ NO	
OCT 27, 2023		22173
DRAWN BY	CHECKED BY	
RKB		RKB

MPD1.0



SPLIT SYSTEM HEAT PUMP INDOOR UNIT SCHEDULE													
SYMBOL	SYMBOL CFM AIRFLOW TOTAL FAN SPEED ELECTRICAL DATA COOLING COIL DATA HEATING COIL DATA MODEL NUMBER								MODEL NUMBER				
SIMBUL	CFM AIRFLOW	S.P. (INCHES)	FAN SPEED	UNIT AMPS	UNIT MCA	VOLTAGE	ENT. AIR	LVG. AIR	COOLING CAP.	ENT. AIR	LVG. AIR	HEATING CAP.	MODEL NUMBER
HPI-1	137	N/A	LOW SPEED	0.76 A	76 A 1.0 208 V/1ø 80/67 F 54.2/53.7 F 9,000 70 F 108.9 F 10						10,900	MITSUBISHI MODEL MSZ-FH09NA	
HPI-2	HPI-2 221 N/A MED. SPEED 0.76 A 1.0 208 V/1ø 80/67 F 54.2/53.7 F 12,000 70 F 118.9 F 13,600 MITSUBISHI MODEL MSZ-FH12NA												
1. FURNISH	1. FURNISH EACH INDOOR UNIT WITH WALL-MOUNTED THERMOSTAT CONTROLS, HARD-WIRED TO CENTRAL BUILDING ENERGY MANAGEMENT SYSTEM (BACNET-CAPABLE)												
	2. FURNISH EACH INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP (3/4" DISCHARGE PIPED TO BLDG. EXTERIOR)												
3. FURNISH	EACH INDOOR U	INIT WITH 1/4" LI	<i>'QUID & 1/2" GAS</i>	<i>REFRIGERANT</i>	PIPING, CONNECT	TED FROM EACH ÎN	IDOOR UNIT TO	OUTDOOR UNIT .	AS REQUIRED				

SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT SCHEDULE										
SYMBOL	SYMBOL ELECTRICAL DATA COOLING DATA HEATING DATA CONNECTED INDOOR UNITS MODEL NUMBER									
STMBUL	STMBUL MOCP M.C. AMPS VOLTAGE BTUH (TOTAL) AMBIENT AIR BTUH (TOTAL) AMBIENT AIR (BASED ON MITSUBISHI MODEL NO'S)						MODEL NOMBER			
HPO-1	HPO-1 40 A 29.5 208 V/1ø 20,000 95 F 22,000 5 F (1) MSZ-FH09NA & (1) MSZ-FH12NA MITSUBISHI MODEL MXZ-2C20NAHZ3									
1. OUTDOOR HEAT PUMP UNITS SHALL BE HYPER-HEAT TYPE, CAPABLE OF FULL HEAT OUTPUT DOWN TO AMBIENT TEMPERATURE OF 5° F										
2. FURNISH F	ACH OUTDOOR	R UNIT WITH R	RANCH BOX HEA	ADER FOR REFRIGER	PANT PIPING CONNE	CTIONS TO QUANTIT	Y OF CONNECTED I	INDOOR UNITS		

2. FURNISH EACH OUTDOOR UNIT WITH BRANCH BOX HEADER FOR REFRIGERANT PIPING CONNECTIONS TO QUANTITY OF CONNECTED INDOOR UNITS
AND CAP UNUSED HEADER CONNECTIONS AS REQUIRED BY EQUIPMENT MANUFACTURER (WHERE BRANCH BOX IS REQUIRED)
3. FURNISH EACH OUTDOOR UNIT WITH FACTORY—INSTALLED BASE PAN HEATER, ROOF SUPPORT STAND, AND SNOW HOOD (FOR WINTER CONDITIONS)

2. WIRE EACH EXHAUST FAN TO RESPECTIVE LIGHT SWITCH SUCH THAT FAN SHALL RUN WHEN ROOM IS OCCUPIED

4. FURNISH EACH INDOOR UNIT WITH CONDENSATE DRÁIN PAN OVERFLOW SWITCH, WÎRED TO SHUT DOWN UNIT IN EVENT OF DRAIN PAN OVERFLOW

EXHAUST FAN SCHEDULE									
SYMBOL	CFM AIRFLOW	EXT. S.P.		ELEC1	RICAL DATA		FAN TYPE	MODEL NUMBER	
STMBOL	CI W AINT LOW	LX1. 5.1.	AMPS	RPM	VOLTAGE	STARTER SIZE	TAN TITE	MODEL NOMBER	
EF-1	80	0.50"	0.20 A	0.20 A 1190 120 V/10 N/A CEILING-MOUNTED NUTONE MO					
1. FURNISH	EACH EXHAUST	FAN WITH WALL	LOUVER, BAC	KDRAFT L	DAMPER, AND	SPEED CONTROLLE	īR		

	CABINET UNIT HEATER SCHEDULE						
SYMBOL	SYMBOL CFM AIR ELECTRICAL DATA HEATING CAP. MODEL NUMBER						
STMBUL	CFM AIN	HEATER KW	VOLTAGE	AMPS	(ВТИН)	MODEL NUMBER	
CUH-1	160	1.8 KW	120 V/1ø	15.0 A	6,140	DAYTON MODEL 2HAE1 WITH BUILT—IN THERMOSTAT & SURFACE MOUNTING BOX	
	1. PROVIDE CABINET UNIT HEATER WITH TAP WOUND PERMANENT SPLIT CAPACITOR HIGH EFFICIENCY MOTORS & SURFACE MOUNTING BOX 2. CABINET UNIT HEATER SHALL BE FURNISHED WITH COMPLETE CONTROL PACKAGE, INCLUDING INTEGRAL TWO-STAGE BUILT-IN TAMPER-PROOF THERMOSTAT						

ELECTRIC BASEBOARD HEATER SCHEDULE						
SYMBOL ELECTRICAL DATA HE					LENGTH	MODEL NUMBER
STWIDOL	WATTS	VOLTAGE	AMPS	(BTUH)	LLNOIII	MODEL NOMBER
EBB-1	500 WATT	120 V/1ø	4.2 A	1,706 BTUH	30"	Q-MARK MODEL 25126NW
EBB-2	1,000 WATT	120 V/1ø	8.4 A	3,412 BTUH	48"	Q-MARK MODEL 2514NW
1. PROVIDE EACH SECTION OF ELECTRIC BASEBOARD HEATER WITH WIRING SECTION. TWO-POLE DISCONNECT						

SWITCH, AND SINGLE-POLE TAMPER-RESISTANT THERMOSTAT (FIELD-INSTALLED)

	DEHUMIDIFICATION UNIT SCHEDULE						
			DETTOW	DII IOI III	311 01111	JOHEDOLE	
SYMBOL	CFM AIR	EXTERNAL	MOISTURE	ELECTRIC	CAL DATA	MODEL NUMBER	
SIMBUL	(TOTAL/OUTDOOR)	S.P. (INCHES)	REMOVAL (LBS/HR)	VOLTAGE	UNIT M.C.A.	MUDEL NUMBER	
DH-1	540 / 50	0.50"	3.9 LBS/HR	208 V/1ø	36 AMPS	DESERT-AIR MODEL LC01R6NEAFMLCED (COUPLED WITH RC5S008C2H20400 CONDENSER)	

1. REMOTE AIR—COOLED CONDENSER: 208V/10, 2.0 M.C.A. PROVIDE 3/80 LIQUID & 3/80 HOT GAS PIPING FROM CONDENSER TO INDOOR DEHUMIDIFIER
2. FURNISH DEHUMIDIFIER PACKAGE COMPLETE WITH REMOTE AIR—COOLED CONDENSER, HOT GAS BYPASS & HOT GAS REHEAT CONDENSER COIL, 3 KW AUXILIARY
HEATER, AND MODEL CM3530 CONTROL PACKAGE WITH WALL—MOUNT TEMP. & RH SENSORS AND BMS BACNET COMPATIBILITY

MECHANICAL NOTES

17. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS HIGH AS PRACTICAL.

22. THE CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS. DO NOT ASSUME THAT THE DRAWINGS ARE TO EXACT SCALE.

1. THE HVAC CONTRACTOR SHALL COORDINATE ALL WORK TO BE PERFORMED WITH THE GENERAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS. ANY WORK DONE BY THIS CONTRACTOR WHICH INTERFERES WITH WORK BY OTHERS AND WHICH WAS NOT FIRST COORDINATED SHALL BE REMOVED AND RELOCATED AT MECHANICAL CONTRACTOR'S EXPENSE.

2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UTILITIES AND THE PLACEMENT OF ALL MECHANICAL EQUIPMENT PRIOR TO THE START OF HIS WORK. NO EXTRA CHARGES WILL BE ALLOWED DUE TO EQUIPMENT LOCATION CHANGE FROM THAT SHOWN ON THE PROJECT DRAWINGS.

3. IT IS THE INTENT THAT THE WORK SHALL BE COMPLETE IN EVERY RESPECT, AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE SYSTEMS INSTALLATION, SHALL BE PROVIDED.

4. THE LOCATION OF SOME ITEMS SHOWN ON THE DRAWINGS MAY BE APPROXIMATE, AND THE OWNER SHALL HAVE THE RIGHT TO MAKE REVISIONS TO LOCATIONS BEFORE THE WORK HAS BEEN INSTALLED, AT NO ADDITIONAL COST.

5. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL GOVERNING AND APPLICABLE CODES. THE MORE STRINGENT OF THESE SHALL APPLY IN ALL INSTANCES.

6. SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK SHALL BE EXTERIOR DUCTWORK SHALL BE INSULATED WITH A MINIMUM OF R-12 RIGID BOARD TAPERED FIBERGLASS INSULATION WITH VAPOR BARRIER AND COVERED WITH MITTER PVC OR METAL JACKETING, WITH ALL JOINTS AND SEAMS SEALED WATER-TIGHT.

7. DUCTWORK SHOUND WITH INTERNAL DASHED LINES SHALL BE PROVIDED WITH 1-INCH-THICK INTERNAL ELASTOMERIC FOAM DUCT LINER EQUAL TO ARMACELL AP COILFLEX.

8. ALL DUCT SIZES SHOWN ARE FREE AND CLEAR INSIDE DIMENSIONS.

9. ROUND DUCTWORK SHALL BE RIGID SPIRAL—WOUND, WITH LARGE BELLMOUTH TAKE—OFF FITTINGS.

10. THE CONTRACTOR SHALL PROVIDE ADJUSTABLE VOLUME DAMPERS AT ALL AIR DISTRIBUTION DUCTWORK TAKE-OFFS, REGISTERS, GRILLES AND DIFFUSERS, AND BRANCH CONNECTIONS, TO FACILITATE AIR BALANCING. DAMPERS SHALL BE
PROVIDED WITH LOCKING QUADRANT REGULATORS EQUAL TO DURO-DYNE MODEL UESO-38, 3/8-INCH SHAFT SIZE WITH 2-INCH (MINIMUM) DUCT STANDOFF HEIGHT TO ACCOMMODATE DUCT INSULATION THICKNESS (INCLUDING ALLOWABLE
COMPRESSION) AND 3/8-INCH END BEARINGS SECURED TO DAMPER.

11. USE TURNING VANES IN ALL SQUARE ELBOWS.

12. INSTALL ALL THERMOSTATS AT HANDICAPPED-ACCESSIBLE HEIGHT.

13. THIS CONTRACTOR SHALL BALANCE ALL AIR AND WATER DISTRIBUTION SYSTEMS AND EQUIPMENT, AND THE SUBMIT FINAL NEBB OR AABC-CERTIFIED BALANCING REPORT TO ARCHITECT/ENGINEER.

14. ALL EQUIPMENT WHICH PRODUCES AIR MOVEMENT SHALL HAVE A FLEXIBLE CONNECTOR INSTALLED AT EACH DUCT CONNECTION TO EQUIPMENT, TO PREVENT THE TRANSMISSION OF VIBRATION TO STRUCTURE.

15. ALL MATERIALS USED FOR AIR DISTRIBUTION, INCLUDING INSULATION, SHALL BE NON-COMBUSTIBLE AND SHALL BE NON-COMBUSTIBLE AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA) LOW-PRESSURE DUCT CONSTRUCTION AND SHALL BE CONSTRUCTED OF NEW GALVANIZED SHEET METAL. PROVIDE ACCESS DOORS FOR ALL DAMPERS, MOTORS, VALVES, AND ANY OTHER EQUIPMENT OR ACCESSORIES WHICH MAY REQUIRE SERVICING.

16. FLEXIBLE DUCTWORK MAY BE USED, BUT IT'S INSTALLED LENGTH SHALL NOT EXCEED FIVE (5) FEET AND ITS' USE SHALL BE LIMITED TO FINAL CONNECTIONS TO REGISTERS, GRILLES, AND DIFFUSERS.

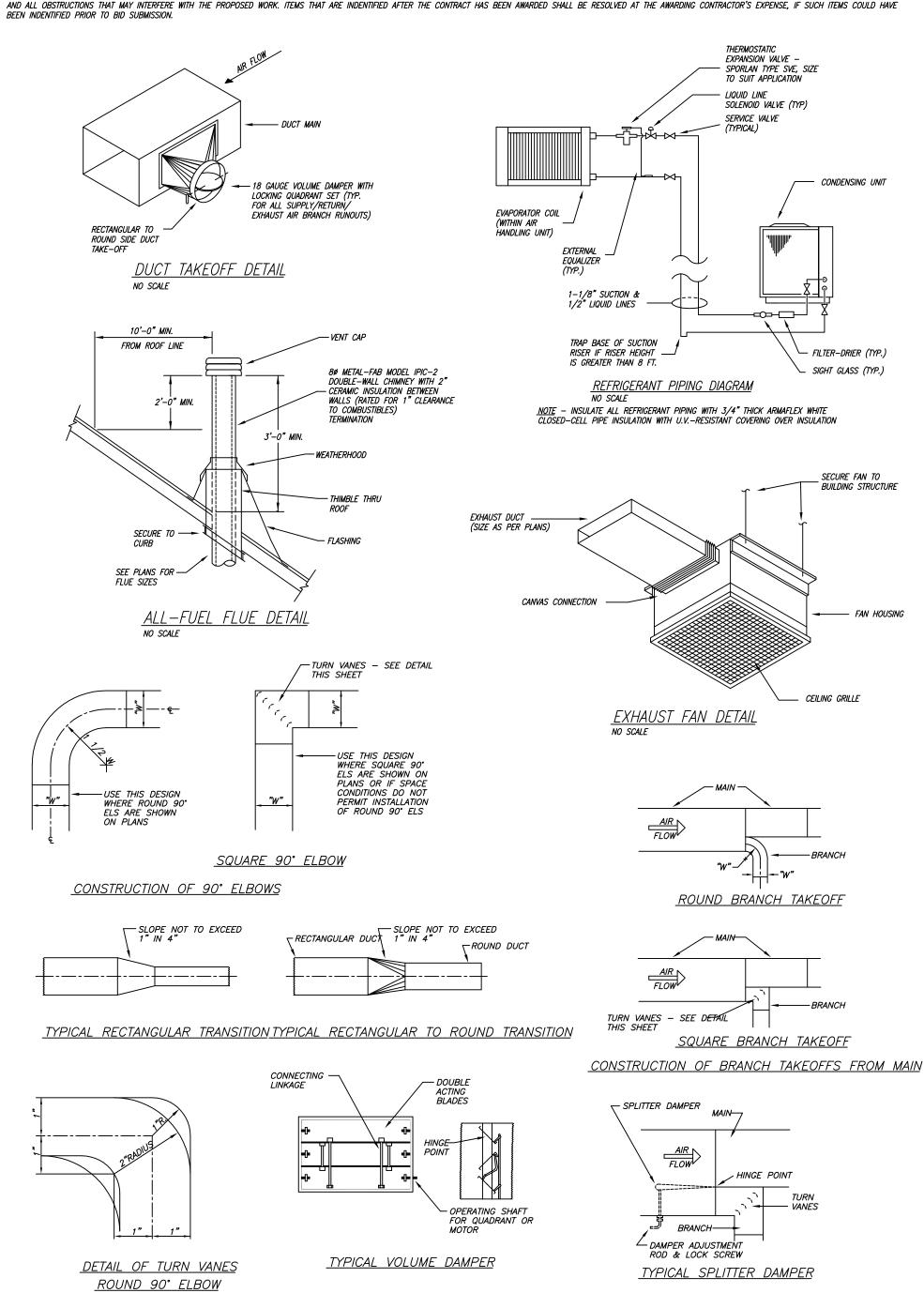
18. FURNISH AND INSTALL DUCT SMOKE DETECTORS IN SUPPLY AND RETURN AIRSTREAMS FOR ALL SYSTEMS RATED FOR 2,000 CUBIC FEET PER MINUTE (CFM) OR MORE. COORDINATE INSTALLATION REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

19. ALL EQUIPMENT FITTED WITH COOLING COIL(S) SHALL BE PROVIDED WITH SUPPLEMENTAL DRAIN PAN INSTALLED BENEATH EQUIPMENT, WITH ALL CONDENSATE WASTE PIPING, COMPLETE WITH P-TRAP, PIPED TO BUILDING EXTERIOR. ALSO PROVIDE WITH DRAIN PAN OVERFLOW.

20. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE MECHANICAL SYSTEMS INSTALLATION. CERTIFICATES OF INSPECTION SHALL BE PROVIDED TO THE OWNER AT PROJECT CLOSE—OUT.

21. THE CONTRACTOR SHALL FILE ALL PLANS WITH THE LOCAL BUILDING INSPECTION DEPARTMENT, AND REQUEST INSPECTIONS FOR THE INSTALLATION OF THE MECHANICAL SYSTEMS AS REQUIRED. ALL ASSOCIATED FEES SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

23. THE CONTRACTOR(S) SHALL VISIT THE JOBSITE PRIOR TO BID SUBMISSION, TO REVIEW EXISTING CONDITIONS, INCLUDING ALL EXISTING MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND STRUCTURAL CONDITIONS WHICH MAY INTERFERE WITH THE PROPOSED WORK. ANY ITEMS THAT ARE INDENTIFIED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER'S AND THE OWNER'S ATTENTION, SO THAT ADDITIONAL DIRECTION CAN BE PROVIDED TO AVOID ANY AND ALL OBSTRUCTIONS THAT MAY INTERFERE WITH THE PROPOSED WORK. ITEMS THAT ARE INDENTIFIED AFTER THE CONTRACT HAS BEEN AWARDED SHALL BE RESOLVED AT THE AWARDING CONTRACTOR'S EXPENSE, IF SUCH ITEMS COULD HAVE



REGISTER, GRILLE & DIFFUSER SCHEDULES				
SYMBOL	CFM AIR	NECK SIZE	TYPE & THROW	MODEL NUMBER
1	UP TO 125	6 X 6	SQUARE ADJ. DIFFUSER	TITUS MODEL MCD-6 X 6-6-26-AG-40
2	UP TO 125	6 X 6	RETURN/EXHAUST	TITUS MODEL 25RL-0606-1-26-AG-35

TYPICAL DUCT CONSTRUCTION DETAILS

 PROVIDE ALL REGISTERS, GRILLES AND DIFFUSERS WITH OPPOSED BLADE VOLUME DAMPERS
 NUMBER ENCLOSED WITHIN OVAL INDICATES REGISTER/GRILLE/DIFFUSER SYMBOL; NUMBER BELOW OVAL INDICATES CFM AIRFLOW (AS SYMBOL IS SHOWN ON THE FLOOR PLANS)
 NEW REGISTER/GRILLE/DIFFUSER RUNOUT CONNECTION SIZES TO SUPPLY & RETURN/EXHAUST

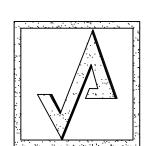
NO SCALE

DUCT MAINS SHALL BE AS FOLLOWS:

SYMBOL #1 - 6"Ø OR 6/6 RUNOUT SIZE FROM DIFFUSER TO DUCT MAIN

SYMBOL #2 - 6"Ø OR 6/6 RUNOUT SIZE FROM RETURN REGISTER TO DUCT MAIN

4. PROVIDE VOLUME DAMPER AT DUCT MAIN RUNOUT TAKEOFF TO ALL REGISTERS/GRILLES/DIFFUSERS



AHARONIAN
& ASSOCIATES INC.
ARCHITECTS

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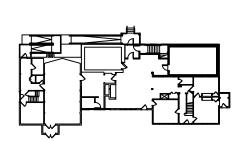
T 401-232-5010 F 401-232-5080

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DISCLAIMER

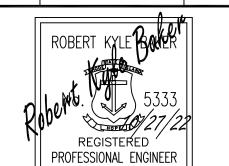
OWNERSHIP AND USE OF DOCUMENTS, DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES THAN THOSE PROPERLY AUTHORIZED BY CONTRACT WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE ARCHITECT.





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NUMBER	REMARKS	DATE



R.K. BAKER & ASSOCIATES

ENGINEERS AND CONSULTANTS

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FOR CONSTRUCTION



TOWN HALL ADDITION /RENOVATIONS

195 DANIELSON PIKE SCITUATE, RI 02857
Providence County

DRAWING TITLE

PLANS, NOTES & SCHEDULES MECHANICAL

DATE	PROJ NO	
OCT 27, 2023		22173
DRAWN BY	CHECKED BY	
RKB		RKB

DRAWING NUMBER

M1.1

SECTION 23 03 00 - BASIC MECHANICAL REQUIREMENTS

1.1 SUMMARY

A. This section generally specifies administrative and procedure requirements regarding Mechanical Work.

B. The requirements of this Section do not supersede or take precedence over any provision of the General Conditions of Contract and the 1.2 EXTENT OF WORK

A. The Contractor will be handed one set of Mechanical, Electrical, Structural and Architectural drawings, specifications & bill of quantities. It is the Contractor's responsibility to prepare Shop Drawings and Composite Drawings for the Associated Electrical and Mechanical works using the information from all the drawings. The Contractor shall ensure that all sleeves, openings, shafts, and other works embedded in the concrete works are well integrated and do not conflict with each other and/or any other services shown on the drawings and to be

B. The Contractor shall supply all labor, materials, equipment, tools, appurtenances, storage, services and temporary work, necessary to completely install, in accordance with these specifications and the drawings.

C. Work, materials, equipment or services not specifically mentioned in other clauses of these specifications or elsewhere, or indicated on the drawings but found necessary for the completion and perfect functioning of the installations must be included in the Contractor's price.

D. The work shall include also operation of the installations after completion and acceptance including maintenance and guarantee of the works as described hereinafter.

E. The work shall be designed and carried out in accordance with the contract drawings and specifications as well as the required

1.3 SYSTEM DESCRIPTION

A. This specification covers the supply and installation of the mechanical and Air Conditioning services as shown on the Drawings and

B. To balance, adjust and test heating and cooling systems, air-moving equipment, air distribution, exhaust air systems and other systems as herein specified.

C. It shall be clearly understood that these specifications and design drawings are complimentary documents, intended for the selection of equipment having the general and specific characteristics as detailed in the documents.

D. Unless otherwise specifically stated, the mechanical installation shall be complete, ready for operation and fully integrated and co-ordinate with all other building items.

E. Materials and methods included in this Section are of a general nature, and apply to most systems and installations in this Contract. Refer to individual system sections for materials and methods specifically required for the respective systems.

F. Equipment capacities are based on the conditions indicated in the schedule of equipment.

1.4 QUALITY ASSURANCE

A. Materials and equipment shall conform to the latest edition of reference specifications specified herein and to applicable codes and requirements of local authorities having iurisdiction. 1. Mechanical equipment shall conform to the latest version of ASHRAE Standard 90.

2. Reference Standards

a. Provide materials and equipment listed by Underwriters' Laboratories, Inc. except in those cases where an Underwriters' Laboratories listina is not available.

b. Comply with the latest applicable standards of the following Rhode Island State Building Code National Environmental System Contractors Assoc. American Society of Mechanical Engineers American Society of Testing Materials National Electric Code National Fire Code National Fire Protection Association NFPA Underwriters Laboratories, Inc. National Electrical Manufacturers Association NEMA Occupational Health and Safety Act Air Conditioning and Refrigeration Inst. Air Movina and Conditionina Association **ASHRAE** American Society of Heating, Refrigeration and Air Conditioning Engineers

National Sanitation Foundation Rhode Island Department of Health Environmental Protection Agency International Code Council Federal Construction Safety Standards American Gas Association

National Association All applicable local ordinances and codes

Sheet Metal and Air Conditioning Contractors

A. Definitions: The required submittals of this division, in addition to the definitions of the General Conditions, and elsewhere in the contract documents, are further categorized for convenience as follows: Product data shall include manufacturer's latest standard printed literature such as manufacturer's installation instructions, catalog cuts, color charts, roughing diagrams, wiring diagrams and performance curves on materials, equipment and systems for this project. Product data shall include references to applicable specification section and item number. Product data shall be provided in addition to the

required shop drawing submittal 2. Shop drawings shall be submitted to the Engineer for Approval as described hereinafter and should be based on equipment already

3. Samples shall include physical examples of materials in complete units for visual inspection. Samples shall indicate applicable specification section number and item numbers within that section.

4. Certificates shall include statements of applicability, certifying reports from governing and testing agencies, industry standards and applicable certificates specified in each Section of the specifications.

5. Test and inspection reports shall include reports specified in each section of the specifications

SMACNA

6. Miscellaneous submittals shall include submittals related directly to the work (non- administrative) including warranties, maintenance

agreements, workmanship bonds, reports, physical work records, copies of industry standards, record drawings, field measurement data and similar information applicable to the work and not processed as shop drawings product data samples or certificates

7. No equipment or materials are to be purchased or delivered to site until the required submittals have been approved. 8. In specifying and selecting equipment, fixtures or accessories, model numbers of certain manufacturers' catalogues are referred to as an indication. This procedure is adopted to describe the type, shape, and / or function of the items specified, and to establish standard of quality and performance. Other items from approved manufacturers, judged by the engineer to be similar in shape and performance to the one specified will be accepted. Reference to approved manufacturers and model numbers does not imply approval of same. Contractors shall submit all equipment and materials for approval irrespective of whether a model number or approved manufacturer is listed or not. It

is pointed out that the term "or approved equal" shall I mean items or equipment approved by the engineer, whose decision in approving

or rejecting shall be final and not subject to any justifications. 1.6 INTENT

A. The purpose of the shop drawings and specification is to provide an approach for intended complete installations, finished, fully adjusted. tested commissioned and put in perfect operating condition. The spirit as well as the letter of the drawings and specifications shall be followed, and all work shall be executed according to the true intent and meaning of the drawings and specifications. The shop drawings should be coordinated with other trades and finalized in case of any crossing or unexecuted conditions.

1.7 DISCREPANCIES AND OMISSIONS

A. It is the responsibility of the Contractor, to inform the Engineer of any discrepancies in the drawings and specifications before signing the Contract, default of which will make him responsible for any errors or omissions in the drawings and specifications even though these have been approved by the Engineer.

B. All costs incurred by any changes or alterations necessitated by any errors or omissions shall be on the Contractor's own expense without having the right to ask the employer for any indemnity.

C. The Contractor is responsible for any discrepancy in the executed works due to wrong coordination, defective works or missing any component of the electrical and mechanical work that shall be installed under this Contract to avoid breaking concrete in the future. The Contractor shall execute all the necessary works at his own expense in order to resolve defective, wrong or missing works.

A. The Project drawings are generally diagrammatic and include general layouts and typical details of the various systems to be installed. No deviations from the drawings shall be made without receipt of prior written approval from the Engineer.

B. The drawings shall not be scaled. The Contractor shall base all measurements, both horizontal and vertical, from established benchmarks. All work shall agree with these established lines and levels. All measurements shall be verified on Site and checked as to correctness of same as related to the work.

C. The Contractor shall check all Architectural, Structural and Electrical drawings in laying out work for verifying the adequacy of space in which work will be installed. Maximum headroom and space conditions shall be maintained at all points. Where headroom or space conditions appear inadequate the Engineer shall be notified before proceeding with installation.

1.9 COMPOSITE, SHOP AND INSTALLATION DRAWINGS

A. Prior to starting the work the Contractor shall submit to the Engineer for approval detailed composite, shop and installation drawings showing the scale dimensions of equipment, pipes, etc. in plan and elevation with clearances and relation of same to the space assigned The minimum scale of shop drawings shall be 1/8-inch equal one-foot.

B. Where the work will be installed in close proximity to, or will interfere with the work of other trades, the Contractor shall coordinate space conditions to make a satisfactory to a suitable scale of less than noted herein, clearly showing how work will be installed in relation with work of other trades.

C. Prior to submissions of the drawings, the Contractor shall submit lists of the equipment and materials with the names of proposed manufactures. Lists shall show submission dates. The drawings will not be accepted prior to submissions of such lists. Drawings of interrelated items shall be submitted at approximately the same time.

D. Drawings of equipment and material shall include detailed manufacturer's drawings, cuts of catalogues and descriptive literature, showing specifications, type, performance characteristics, construction, component parts, dimensions, size arrangements, operating clearance, capacity, electrical characteristics, power requirements, motor, drive and testing information. Data of a general nature will not be accepted.

E. Catalogs, pamphlets or manufacturer's drawings submitted for approval shall be clearly marked in ink for proper identification of the

F. Deviations from the specifications and drawings shall be indicated clearly with the reason for each deviation.

G. All submissions for approval shall be furnished in three copies and submitted sufficiently in advance of requirements to allow the Engineer ample time for checking and approving. Failure of the Contractor to submit the drawing in ample advance time shall not entitle him to an extension of contract time, and no claim for extension by reason of such default will be allowed.

H. No equipment or material shall be purchased, delivered to the site or installed until the contractor has in his possession the approved drawings for the particular equipment or material.

I. Approval rendered on drawings shall not relieve the Contractor from his responsibility to provide equipment and material to meet the performance and quality standards as indicated on the drawings and as described in the specification or to be of physical size to fit the

J. Material not covered by drawings such as pipe, fitting and incidentals shall be submitted for approval in letter form giving ratings and names of manufacturers

K. During the progress of the work, drawings shall be submitted as required by the Engineer and as specified elsewhere in this specification. These drawings shall comprise but not necessarily be limited to concrete bases for equipment with location of anchors bolts manufacturers certified installation drawings and instructions, certified performance characteristics of equipment, wiring diagrams of motor controllers and control systems, etc.

. Where required by the Engineer the Contractor shall submit for approval samples of material to be used and workmanship proposed. The Contractor shall not use material or workmanship that does not correspond to the approved samples.

1.10 COORDINATION WITH OTHER TRADES

A. The Contractors shall plan and coordinate the work with all other trades in advance of requirements and shall provide all necessary resources to ensure compliance with the construction program. Contractor shall submit to the Engineer a set of composite coordination drawings in plans and sections with minimum scale of 1/8-inch equal one foot.

B. The Contractor shall coordinate the space requirements of all other trades involved and shall be responsible for the sufficiency of the size of the shafts and chases and adequate clearance in double partitions, hung ceilings, etc. for the proper installation of the work. C. The Contractor shall furnish to other trades, as required, all necessary templates, patterns, setting plans and shop details for the

D. The Contractor shall undertake to make, without extra charge, minor changes and modifications in the layout as needed to prevent conflict with work of other trades or for proper execution of the work.

E. Any extra cost incurred by lack of coordination on the part of the Contractor shall be at his own expense.

The Contractor shall submit to the Engineer for record three complete sets of hard copies of the as- built drawings with two set of soft copies on Autocad 2000 format (minimum) including electrical wiring diagrams, reflecting all the changes made from the original drawings during the progress of the work. The drawings and electrical wiring diagrams shall show all labeled equipment, valves, controls, instruments, and electrical devices.

1.12 INSTRUCTION MANUALS AND SPARE PARTS LISTS

1.11 RECORD DRAWINGS

proper installation and coordination of adjacent work.

The Contractor shall furnish four copies of an instruction manual bound in booklet form containing the following information: A. Brief description of every system and equipment with basic operating features. B. Descriptive literature of all equipment and components with manufacturer's name, model number, capacity rating and operating

C. Service manual for every major piece of equipment giving operating and maintenance instructions, starting and shutdown instructions, lubrication instructions and possible breakdown and repairs, the service manual shall be prepared specially by the manufacturer for the particular equipment.

D. Manufacturer's list of general spare parts for every piece of equipment with unit prices. E. Manufacturer's list of recommended spare parts for one year of operation for every piece of equipment with unit prices. F. Detailed and simplified one—line, color—coded flow diagrams of every system with tag number, location and function of each valve and

G. The instruction manual shall be submitted in draft form to the Engineer for his review and approval as to the fulfillment of the specified requirements prior to final issue. H. The instruction manual shall be submitted to the Engineer at least four weeks in advance of the complete date of the system to be available for the final inspection prior to acceptance of respective systems. 1.13 DELIVERY, STORAGE AND HANDLING

Deliver products to the project properly identified with name, model number, types, grades, compliance labels and other information needed

1.14 EQUIPMENT AND MATERIAL QUALITY WORKMANSHIP

A. All equipment arid material provided by the Contractor shall be new, free from defects and of the same type, standard and quality as set forth in the specification.

B. Equipment and material of similar application shall be of the same manufacturer unless otherwise specified.

C. All workmanship shall be of the highest standards of the industry, of accepted engineering practice and to the entire satisfaction of the Engineer. Poor workmanship shall be rejected, and the work reinstalled when in the judgment of the Engineer, the workmanship is not of

1.15 SUBSTITUTION OF EQUIPMENT AND MATERIAL

A. Reference in the drawings and specifications to any equipment or material by name, make or catalogue number, as well as any list of approved manufacturers, shall be interpreted as establishing a standard of quality and performance and shall not in any way be construed as an intention to eliminate the products of other manufacturers and suppliers having approved equivalent products.

Contract and before start of construction, the Contractor shall submit for the approval of the Engineer a complete summary of proposed equivalent to be furnished indicating service, manufacturer, figure number, type and pressure rating.

B. Approval of a manufacturer does not necessarily constitute approval of his equipment as equal to those specified. After award of

C. At all times the Engineer shall be the only judge of equality between the proposed alternative and the item specified. No alternative shall be implemented without the written approval of the Engineer. D. Where the Contractor proposes to use equipment other than that specified or indicated which requires any redesign of the structure, partitions, foundations, piping, wiring or any other part of the works, all such redesign, new drawings and detailing required shall be

prepared by the Contractor at his own expense. All additional costs resulting from such a substitution if approved by the Engineer in writing shall be paid by the Contractor. E. Where such approved substitution requires a different quantity or arrangement of piping, wiring, conduit and equipment from that

specified or shown on the drawings, the Contractor shall provide all such piping, structural supports, installation, controllers, motors, starters, electrical wiring and conduits and any other additional equipment required by the system, at no additional cost to the Employer. F. In specifying and selecting equipment, fixtures or accessories, model numbers of certain manufacturers' catalogues are referred to as an indication. This procedure is adopted to describe the type, shape, and / or function of the items specified, and to establish standard of quality and performance. Other items from approved manufacturers, judged by the engineer to be similar in shape and performance to the one specified will be accepted. Reference to approved manufacturers and model numbers does not imply approval of same. Contractors

shall submit all equipment and materials for approval irrespective of whether a model number or approved manufacturer is listed or not. It

is pointed out that the term "or approved equal" shall I mean items or equipment approved by the engineer, whose decision in approving

or rejecting shall be final and not subject to any justifications.

A. The Contractor shall order all equipment from the manufacturer specifying adequate packing for export at the factory to avoid damage

B. The Contractor shall be responsible for safe storage and the adequate protection of all material and equipment until finally installed,

C. He shall protect work against theft, injury or damage and shall carefully store material and equipment received on Site in their original crates or containers until they are installed. This responsibility shall embrace any delay pending final testing of systems and equipment due

D. The Contractor shall close open ends of work with temporary covers or plugs during construction and storage to prevent entry of

E. The Contractor shall coordinate the protection of the work of all trades and shall be liable for any damage sustained to other trades

F. If any equipment is damaged during shipment be before it is tested and accepted, the Contractor shall replace or repair the equipment depending on the extent of damage and as determined and decided by the Engineer, on the Contractor's own account and without additional cost to the Employer.

1.17 ACCESSIBILITY

1.18 ACCESS DOORS

A. The Contractor shall be responsible for determining in advance of purchase that equipment and materials proposed for installation shall fit into the confines indicated areas, allowing adequate space for maintenance.

B. All work shall be installed so as to be readily accessible for operation, maintenance and repair. Deviations from the drawings may be made to accomplish this, after the written approval of the Engineer.

C. Concealed valves and devices shall be grouped together in as practical a way as possible in order to be accessible through access

A. The Contractor shall arrange for access doors and frames to be provided for easy access to concealed equipment, controls, valves, traps, vents, drains, cleanout and other devices that require periodic operation, inspection or maintenance.

B. However, the dimensions and locations of access doors shall be the responsibility of the Contractor and shall have the approval of the Engineer before the work is installed. C. Requirements of access doors shall be submitted in sufficient advance time to be installed in the normal course of the work.

D. The Contractor shall be responsible for the correct identification of access doors by means of buttons, tabs or makers, to indicate the location of concealed work. The method and schedule for identification of access doors shall be approved by the Engineer.

Each piece of equipment provided shall carry, at a conspicuous location, attached in a permanent manner to the equipment at the factory, a certified nameplate on which shall be printed or stamped clearly the name and address of the manufacturer, the equipment model number, serial number, date of manufacture, Electrical characteristics, performance rating or duty, pressure, temperature or other limitations and all other pertinent data as deemed necessary by the manufacturer for any future reference to the equipment.

A. The Contractor shall label and identify all pipe works, ductworks, equipment, instruments, controls, electrical devices, valves, etc. as to duty, service or function and direction of flow B. Labels on equipment shall be of laminated bakelite with black surface and white core, with incised lettering nomenclature written in

C. Labels shall be attached to equipment, instruments, controls, electrical devices, etc. or to adjacent permanent surfaces, in an approved

D. The Contractor shall submit to the Engineer for his approval prior to installation a schedule of all equipment, valves and devices to be labeled and the suggested nomenclature.

E. Controls and electrical devices shall be labeled to indicate clearly which equipment they control.

1.21 GUARANTEE

A. All works are to be guaranteed for a period of one year dated from the final acceptance of the work by the Owner.

repair or replacement. C. Provide complete warranty information for each item to include product or equipment, date of beginning of warranty or bond, duration of warranty or bond, and names, addresses, and telephone numbers and procedures for filling a claim and obtaining warranty services.

B. Repairs or replacements made under the quarantee shall bear an additional one year quarantee dated from the final acceptance of the

D. The guarantee is to cover perfect mechanical operation of systems, acceptable noise and vibration levels, reasonable consumption of power, fuel and water, and attainment of temperature and humidities within specified design conditions for HVAC systems.

is to be replaced and defects and malfunctions corrected as directed by the Engineer F. If during the guarantee period any piece of equipment is replaced or rebuilt, the guarantee period for this equipment is to be extended for a new period equal to the original quarantee period.

G. During the guarantee period, provide necessary skills and labor to assure proper operation and to provide regular and preventive maintenance for equipment and controls, on a continuous 24-hours basis.

E. If during the guarantee period any equipment or material proves defective or any part of a system fails to function properly, equipment

H. Act promptly to correct problems arising in the operation of equipment or system.

I. Provide Owner with monthly inspection certificates of equipment, record findings on a check list and certify that each piece of equipment has been examined, is operating as intended and has been properly maintained as recommended by manufacturer. J. Check all controls monthly to ascertain that they function as designed.

K. Spare part for normal wear and tear during quarantee period are to be provided by Contractor.

The Contractor shall provide one-year maintenance of all the mechanical systems included in this contract starting the completion of all works and issuing the final handover of all the systems. Maintenance works shall start when the Engineer issue a letter for the Contractor to proceed with the maintenance works. All systems shall be maintained by their suppliers and not by the installer and contractor

SPARE PARTS

Contractor to submit priced spare part list for two years.

PART 2 - PRODUCTS

2.1 EQUIPMENT BASES

A. Provide concrete bases for all equipment. The dimensions and thickness of each base depends on type of equipment and is included in calculations to be submitted for approval

B. Contractor should coordinate with civil engineer in charge and should have his permission after checking the following points during 1. To check if the original slab could sustain the total load of the machines and the floating floors as per the given loads. In other words, the load carrying capacity of the slab has to be fully rechecked. 2. To check again if the existing slabs on which the machines are placed are stiff enough and not overloaded. The original slabs should not be overloaded, and the necessary precautions taken with the usual margins.

.3 1 FXAMINATION

work implies acceptance of job site conditions.

PART 3 - EXECUTION

Examine conditions at the job site where Mechanical Work is to be performed to ensure proper arrangement and fit of the work. Start of

The Engineer's drawings issued with these specifications show the approximate location of mechanical apparatus, the exact locations are subject to the approval of the Engineer.

INSTALLATION A. Sequence, coordinate and integrate the various elements of mechanical systems, materials and equipment. Comply with the following

B. Coordinate mechanical systems, equipment and material installation with other building components.

C. Verify dimensions by field measurements.

D. Arrange for chases, slots and opening in other building components during progress of construction, to allow for electrical installations. E. Coordinate the installation of required supporting devices and sleeves to be set in poured-in- place concrete and other structural components, as they are constructed.

F. Sequence, coordinate and integrate installations of mechanical materials and equipment for efficient flow of the Work. Give particular attention to large equipment requiring positioning prior to closing in the building.

G. Where mounting heights are not detailed or dimensioned, install systems, material, and equipment to provide the maximum headroom

H. Coordinate connection of mechanical systems with exterior underground and overhead utilities and services. Comply with requirements of governing regulations, franchised service companies and controlling agencies. Provide required connection for each service. I. Install systems materials and equipment to conform with approved submittal data, including coordination drawings, to greatest extent possible. Conform to arrangements indicated by the Contract Documents, recognizing that portions of the work are shown only in diagrammatic form. Where coordination requirements conflict with individual system requirements, refer conflict to the Engineer.

J. Install systems, materials and equipment level and plumb, parallel; and perpendicular to the other building systems and components, where installed exposed in finished and concealed spaces.

K. Install mechanical equipment to facilitate servicing, maintenance and repair or replacement of equipment components. As much as practical, connect equipment for ease of disconnecting, with minimum of interference with other installations. L. Install access panels or doors where units are concealed behind finished surfaces.

M. Install systems, materials and equipment giving right-of-way priority to systems required to be installed at a specified slope.

1. Follow manufacturer's recommendations for surface preparation and application procedures for paints and finishes.

2. Thoroughly clean surfaces requiring prime painting of rust, loose scale, oil, grease and dirt by the use of wire brushes, solvent and 3. Do not paint on damp or frosty surfaces or during wet, foggy or freezing weather.

Spread and brush paint evenly to eliminate drips, runs or sagging. 5. Fill voids, open or hollow places and irregularities with compound

6. Thoroughly clean and retouch damaged or dirtied shop coat surfaces. 7. Do not paint controls, nameplates or labels

8. Paint thickness is measured when dry. 9. Machinery: Before shipment, paint machinery including fans, compressors, pumps and motors with the manufacturer's standard shop prim coat.

a. Prime coat steel and cast-iron piping and related pipe supports, immediately after insulation, regardless of whether or not they will be subsequently covered with insulation and/or finished paint. Apply prime coat in accordance with manufacture's specifications. Do not prime galvanized metals.

O. Cutting and Patching 1. Perform cutting and patching in accordance with the provisions of the Contract Documents. In addition to the requirements specified,

the following requirements appl a. Perform cutting, filling and patching of equipment and materials required to:

1). Uncover Work to provide for installation of ill-timed Work. Remove and replace defective Work.

3). Remove and replace Work not conforming to requirements of the Contract Documents. !). Remove samples of installed Work as specified for testing.

5). Install equipment and materials in existing structures. i). Upon written instructions from the Engineer, uncover and restore Work to provide for Engineer observation of concealed Work. 2. Cut. remove and leagily dispose of selected electrical equipment, component and materials as indicated, including but not limited to removal of mechanical items indicated to be removed and items made obsolete by the new work.

6. Patch finished surfaces and building components using new materials specified for the original installation and experienced Installers.

Protect the structure, furnishinas; finishes and adiacent materials not indicated or scheduled to be removed 3. Provide and maintain temporary partitions or dust barriers adequate to prevent the spread of dust and dirt to adjacent areas. 4. Protection of Installed Work: During cutting and patching operations, protect adjacent installations. 5. Patch existing finished surfaces and building components using new materials matching existing materials and experienced Installers. Installer's qualifications refer to the materials and methods required for the surface and building components being patched.

Installer's qualifications refer to the materials and methods required for the surface and building components being patched.

3.4 FIELD QUALITY CONTROL

1. Perform tests on individual equipment, systems and controls in the presence of the Representatives of the Employer, Engineer and such other parties, as may have legal jurisdiction

Supply labor, materials, properly calibrated instruments, power, etc., required for testing, unless otherwise indicated. 3. Before conducting any tests on system or equipment, thoroughly clean the associated systems or equipment just prior to testing. 4. Test equipment and systems, which normally operate during certain seasons during the appropriate seasons. Where the equipment or system under test is interrelated with and depends upon other equipment, systems, and/or controls for proper operation, functioning and performance, operate the latter simultaneously with the equipment or system under test. 5. The duration of tests shall be as determined by authorities having jurisdiction, but in no case less than the time prescribed in each section of the specifications. 6. In general, apply pressure tests to piping only, before connection of fixtures, equipment, and appliances. Do not subject any piping, fixtures, equipment or appliances to pressures exceeding their test rating. 7. Promptly repair or replace defective work and repeat the tests until the particular system and components parts thereof receive the approval for the Engineer. Replace any damages resulting from tests, as directed by the Engineer.

d. Prepare tests procedures, tests sheets and visual control sheets and submit to the Engineer for approval 9. Submit test records on reproducible sheets to the Engineer for approval and include an approved copy in the instruction Manual. The Engineer shall approve the format of the record sheet prior to actual testing of equipment. 10. During tests of equipment and systems, fully instruct the Employer's representative on the operation and maintenance of the equipment and systems. This period is in addition to any required special instruction, elsewhere specified.

1. At final inspection, it is essential that certain trades be properly represented including the following: a. Mechanical Contractor, including people thoroughly familiar with the project, its intent, equipment and system installation and operation. b. Mechanical equipment manufacturer. c. The automatic control manufacturer representatives familiar with the installation who can demonstrate to the Employer's satisfaction that

2. The Mechanical Contractor shall verify the actual operation of equipment and controls prior to final inspection. 3.5 CLEANING, ADJUSTING AND BALANCING-GENERAL

the controls perform according to the specified requirements.

d. The Electrical Contractor's, representatives familiar with the installation's wiring and interlocking.

B. Adjust and balance systems to operate as shown and specified.

3.6 INSERTS AND SLEEVES

A. Lay out the work in accordance with approved shop drawings. Furnish and set in place, in advance of placing of slabs or construction

A. Thoroughly clean any apparatus before placing in operation. Restore finished surfaces if damaged and deliver the entire installation in an

of walls, all inserts and sleeves necessary to complete the Work. B. Pipe Sleeves: Unless otherwise indicated or specified, pipe sleeves are to be as follows: 1. General floor sleeves are to be standard weight galvanized steel pipe with bottom and flush with surface, calked with glass wool and sealed at top and bottom with fire rated sealant. Top end is to extend 25 mm above floor level in mechanical rooms. Top end of sleeves is to be flush with finished floor surface in finished rooms.

3. Sleeves in Concrete Walls: Standard weight galvanized steel pipe, flush with wall surface at both ends, caulked with glass wool sealed at both faces with butvl mastic. 4. Sleeves in Interior Partitions and Ceilings: 20-gauge galvanized steel with lock joints.
5. Sleeves for insulated piping are to be approximately 20 mm larger than pipe passing through. Sleeves for insulated piping are to be

large enough to accommodate the full thickness of the pipe covering with clearance for expansion and contraction C. Duct Sleeves: Where ducts pass through walls and partitions, provide sheet metal sleeves and pack tight between duct and opening with fiber glass. The exposed side of ductwork is to have galvanized 40 mm angle iron closure around duct. The angle irons are to be secured to the wall construction. Fire rated walls shall have factory fabricated wall sleeves for fire dampers.

MAINTENANCE AND GUARANTEE OF EQUIPMENT AND SYSTEM PRIOR TO FINAL ACCEPTANCE A. Take necessary measures to insure adequate protection of equipment and materials during delivery, storage, installation and shutdown conditions. This responsibility shall include provisions required to meet the conditions incidental to the delays pending final test of systems and equipment under seasonal conditions.

B. Operate the completed systems for a period of time prescribed by the Engineer to determinate the capability of the equipment and controls to conform to the requirements of the drawings and specifications

C. Guarantee period for mechanical works shall be 365 days from the date of issuance of taking over certificate.

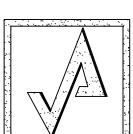
D. Make final operating tests with systems in simultaneous operation and building in normal operating modes.

Sleeves in Foundation Walls: Cast iron fabricated sleeves, flush inside and outside, calked watertial

A. The Contractor shall instruct and train Owner's designated personal in the operation and maintenance of every part, device and piece of equipment in the systems with emphasis on proper startup and shutdown procedures, preventive maintenance and lubrication procedures with recommended lubricants, overhaul and maintenance methods, adjustment and calibration of instruments and controls, use of special tools and safe practices. The duration of the training shall be for a total period of ninety working days, eight hours a day. This period shall follow the final inspection date and shall not necessarily consist of a single series of consecutive days. Apportion time between

Summer, Winter, and intermediate operating seasons as mutually agreed. B. All expenses for training Owner's personnel shall be at Contractor's own cost.

C. The commencement date of training shall be subject to client approval.



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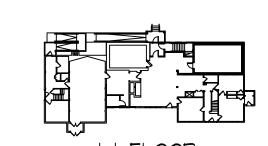
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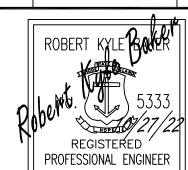
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KEYPLAN (N REVISIONS NUMBER REMARKS DATE



FOR CONSTRUCTION

R.K. BAKER & ASSOCIATES

ROJECT TITLE

ENGINEERS AND CONSULTANTS

21 BURDICK DRIVE CRANSTON, RI 02920

/RENOVATIONS 195 DANIELSON PIKE

SCITUATE, RI 02857

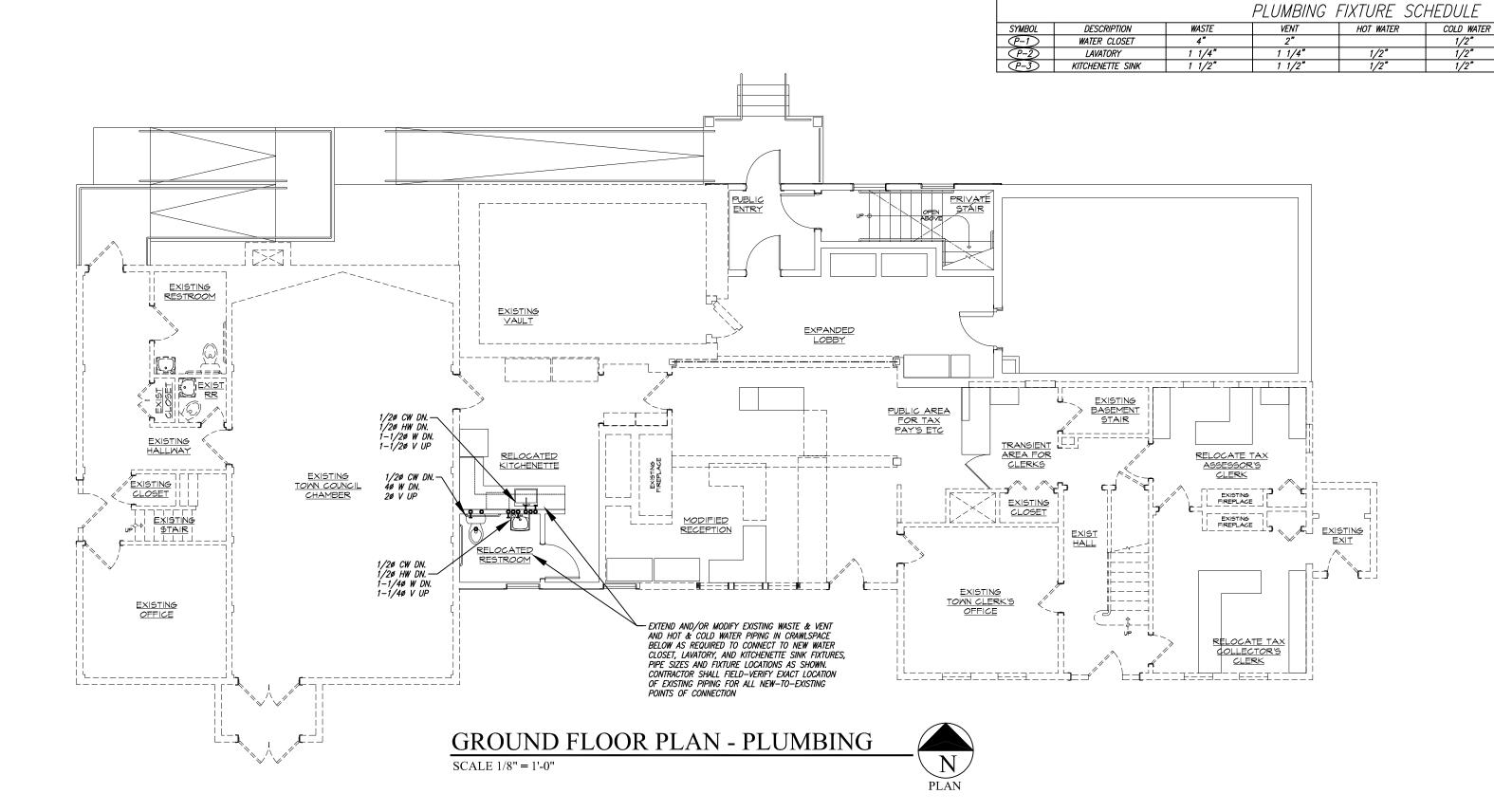
TOWN HALL ADDITION

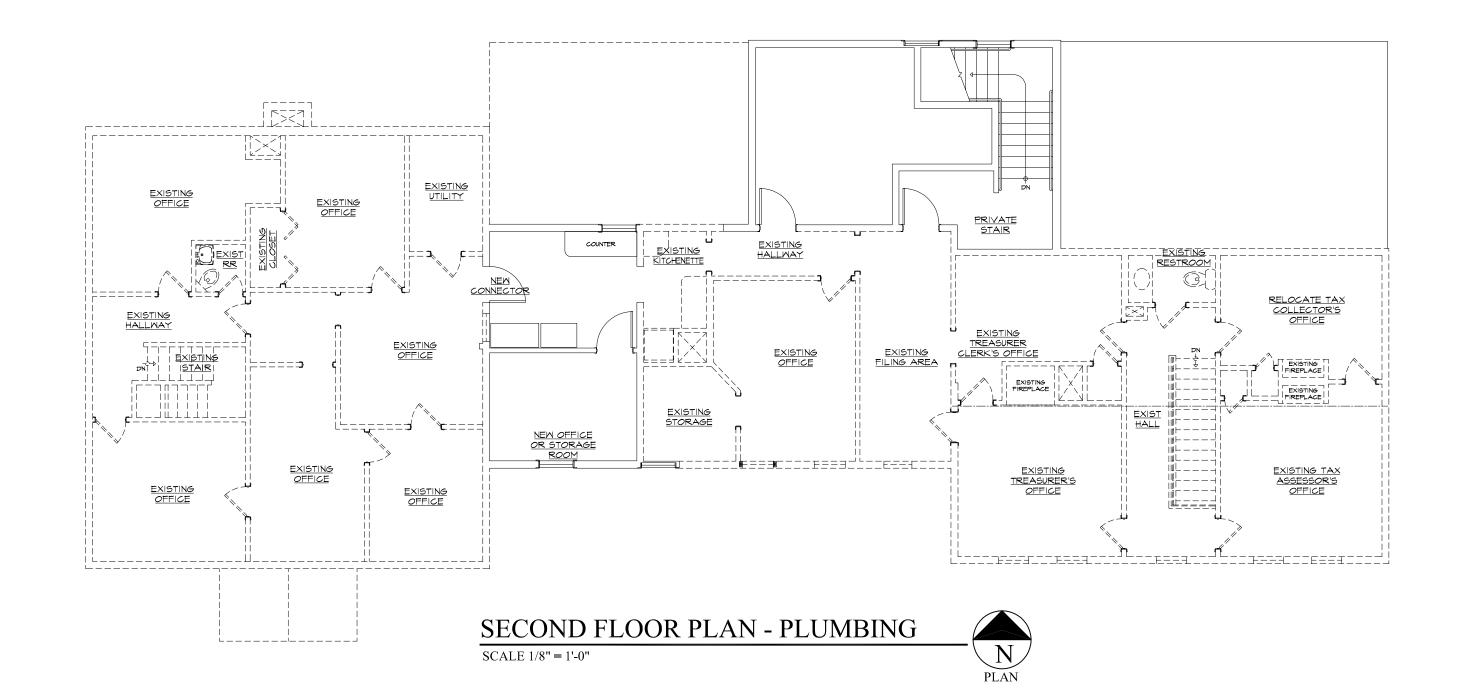
Providence County

DRAWING TITLE MECHANICAL **SPECIFICATIONS**

PROJ NO OCT 27, 2023 22173 **CHECKED BY** DRAWN BY RKE RKB

DRAWING NUMBER





<u>PLUMBING NOTES</u>

- 1. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK TO BE PERFORMED WITH THE GENERAL, HVAC AND ELECTRICAL CONTRACTORS. ANY WORK DONE BY THIS CONTRACTOR WHICH INTERFERES WITH WORK BY OTHERS AND WHICH WAS NOT FIRST COORDINATED SHALL BE REMOVED AND RELOCATED AT PLUMBING CONTRACTOR'S
- 2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES AND THE PLACEMENT OF ALL PLUMBING EQUIPMENT PRIOR TO THE START OF HIS WORK. NO EXTRAS WILL BE ALLOWED DUE TO EQUIPMENT
- LOCATION CHANGE FROM THAT ON THE DRAWING. 3. IT IS THE INTENT THAT THE WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS BUT NECESSARY TO FULLY COMPLETE THE WORK
- 4. THE LOCATION OF SOME ITEMS SHOWN ON THE DRAWINGS MAY BE APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO MAKE MINOR REVISIONS BEFORE THE WORK IS INSTALLED WITHOUT ADDITIONAL COST. 5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND OWNER'S MINIMUM
- REQUIREMENTS. IN ALL CASES, THE MORE STRINGENT SHALL APPLY. 6. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS AND ALL CONTROL DEVICES REQUIRED FOR PROPER COMPLETION OF UTILITY PIPING.
- 7. WASTE AND VENT PIPING SHALL BE CAST IRON. HOWEVER, PVC PIPING MAY BE USED WHENEVER PERMITTED BY OWNER AND LOCAL AUTHORITY, IF APPROVED BY ARCHITECT/ENGINEER (PRIOR TO INSTALLATION). 8. WATER PIPING SHALL BE TYPE "L" COPPER WITH LEAD-FREE SOLDER JOINTS AND NON-CORROSIVE LEAD-FREE
- 9. DOMESTIC WATER PIPING SHALL BE INSULATED WITH A MINIMUM OF 1/2" FIBERGLASS INSULATION HAVING A
- VAPOR BARRIER JACKET WITH SEALED JOINTS. 10. ALL WATER PIPING SHALL BE CONCEALED WITHIN A WALL OR PIPE CHASE EXCEPT FOR THOSE CHROME
- PLATED PORTIONS THAT ARE REQUIRED TO MAKE FINAL CONNECTIONS TO PLUMBING FIXTURES. 11. PROVIDE CHROME PLATED EXCUTCHEONS WHERE PIPES PENETRATE FLOORS, WALLS OR CEILINGS. 12. ALL WATER SUPPLIES TO FIXTURES OR GROUP OF FIXTURES MUST INCLUDE WATER HAMMER
- ARRESTORS, SIZED IN ACCORDANCE WITH P.D.I. STANDARDS. AIR CHAMBERS WILL BE ALLOWED AS AN ACCEPTABLE ALTERNATE.

WATER CLOSET (P-1)

FLOOR-MOUNT HANDICAPPED WITH FLUSH TANK

SINGLE-COMPARTMENT HANDICAPPED WITH HOSE SPRAY

WALL-MOUNT HANDICAPPED

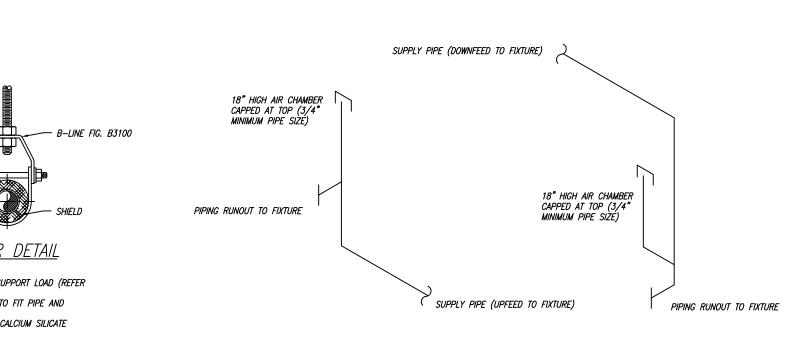
- A. BOWL: ANSI A112.19.2; FLOOR MOUNTED, VITREOUS CHINA, ELONGATED SIPHON ACTION REVERSE TRAP BOWL, CLOSE—COUPLED FLUSHOMETER TANK, CHINA BOLT CAPS, TANK COVER LOCKS, 1.6 GALLONS PER FLUSH; MODEL 270FA.001 MANUFACTURED BY AMERICAN STANDARD.
- B. SEAT: SOLID WHITE PLASTIC, OPEN FRONT, EXTENDED BACK, CHECK HINGE, BRASS BOLTS, WITHOUT COVER; OLSONITE NO. 95.
- LAVATORY (P-2)

B-LINE FIG. B3380CTCW

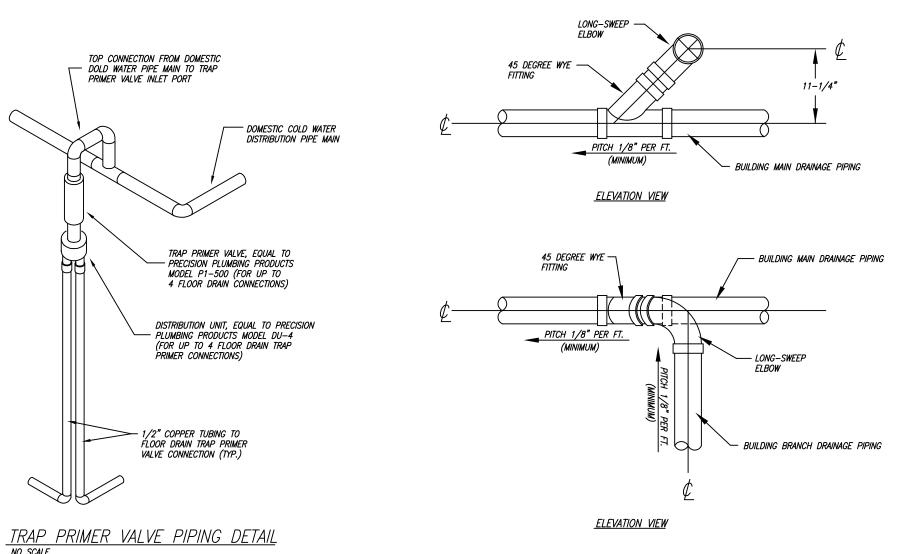
PIPE HANGER DETAIL

NOTES
1. SIZE HANGER TO ADEQUATELY SUPPORT LOAD (REFER TO B-LINE HANGER CATALOG).
2. SIZE CALCIUM SILICATE SHIELD TO FIT PIPE AND INSULATION THICKNESS.
3. SIZE HANGER TO FIT B3380CW CALCIUM SILICATE SHIELDS.

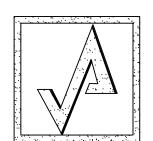
- A. BASIN: ANSI A112.19.2; VITREOUS CHINA WALL?HUNG LAVATORY, 18 INCH BY 15 INCH, WITH 4 INCH HIGH BACK, DRILLINGS ON 4 INCH CENTERS. RECTANGULAR BASIN WITH SPLASH LIP, FRONT OVERFLOW, AND SOAP DEPRESSION; DRILLED FOR CONCEALED ARMS AND FURNISHED WITH WALL HANGER; MODEL 0355.012 MANUFACTURED BY AMERICAN STANDARD.
- B. TRIM: ANSI A112.18.1; CHROME PLATED COMBINATION SUPPLY FITTING, OPEN GRID STRAINER, WATER ECONOMY AERATOR, SINGLE LEVER HANDLE; CHROME PLATED 17 GAGE OFFSET DRAIN WITH CLEAN?OUT PLUG AND ARM WITH ESCUTCHEON, 0.5 GPM SPOUT OUTLET; MODEL 7075.054
- C. WALL MOUNTED CARRIER: ANSI A112.6.1; CAST IRON AND STEEL FRAME WITH RECTANGULAR LEGS, LUGS FOR FLOOR AND WALL ATTACHMENT, CONCEALED ARM SUPPORTS, BEARING PLATE AND STUDS; MODEL 42110 MANUFACTURED BY JONES MANUFACTURING. KITCHENETTE SINK (P-3)
- A. BOWL: ANSI A112.19.3; SINGLE COMPARTMENT, 20 GAGE THICK, TYPE 302 STAINLESS STEEL, SELF?RIMMING WITH UNDERCOATING, 3 1/2 INCH CRUMB CUPS, AND CHROMED BRASS DRAIN, LEDGEBACK DRILLED FOR TRIM; MODEL LRAD-2522-65 MANUFACTURED BY ELKAY.
- B. TRIM: ANSI A112.18.1; CHROME PLATED BRASS SUPPLY WITH SWING SPOUT, WATER ECONOMY AERATOR, SINGLE LEVER HANDLE, CHROME PLATED 17 GAGE BRASS P?TRAP WITH CLEAN—OUT PLUG AND ARM WITH ESCUTCHEON; FURNISHED WITH HOSE SPRAY; MODEL LK—1001—CR MANUFACTURED BY



FIXTURE RUNOUT AIR CHAMBER DETAIL NO SCALE



BUILDING DRAINAGE PIPING BRANCH CONNECTION DETAIL
NO SCALE



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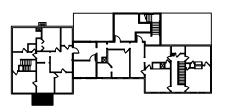
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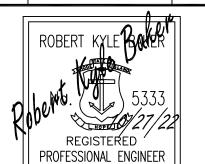
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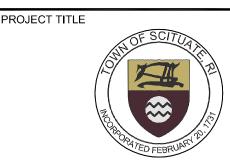


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FOR CONSTRUCTION



TOWN HALL ADDITION /RENOVATIONS

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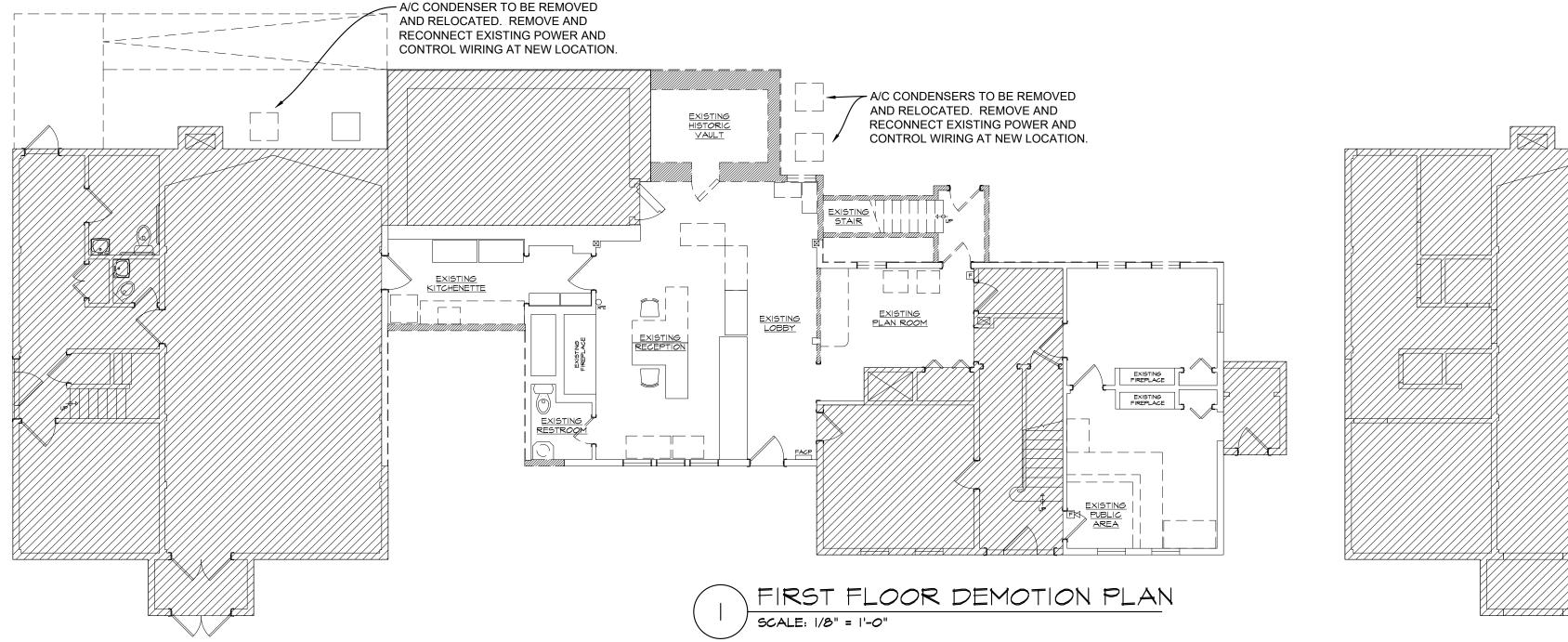
Providence County DRAWING TITLE

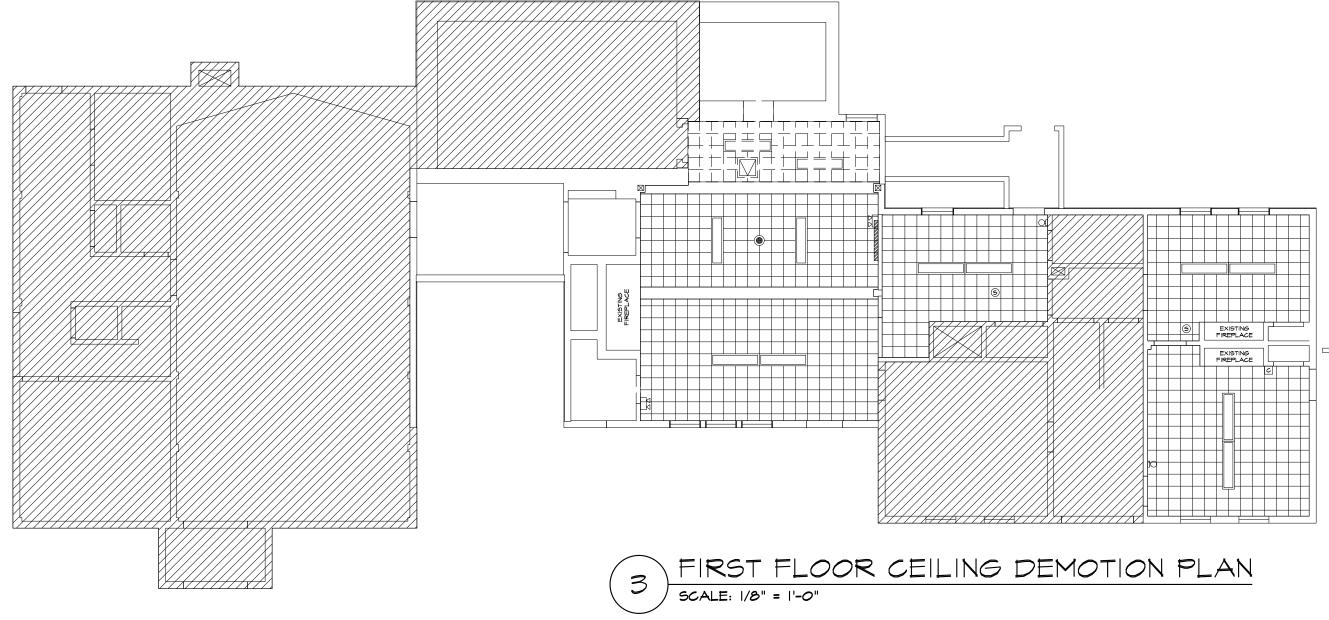
PLANS, DETAILS & SCHEDULES **PLUMBING**

PROJ NO 22173 OCT 27, 2023 CHECKED BY RKB

DRAWING NUMBER

P1.1





ELECTRIAL NOTES

DEMOLITON IS INDICATED BY DASHED LINES.

PART 4 ELECTRICAL DEMOLITION SPECIFICATIONS

4.01 EXAMINATION

- A. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON DRAWINGS.
- B. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.
- C. BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.

4.02 PREPARATION

A. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

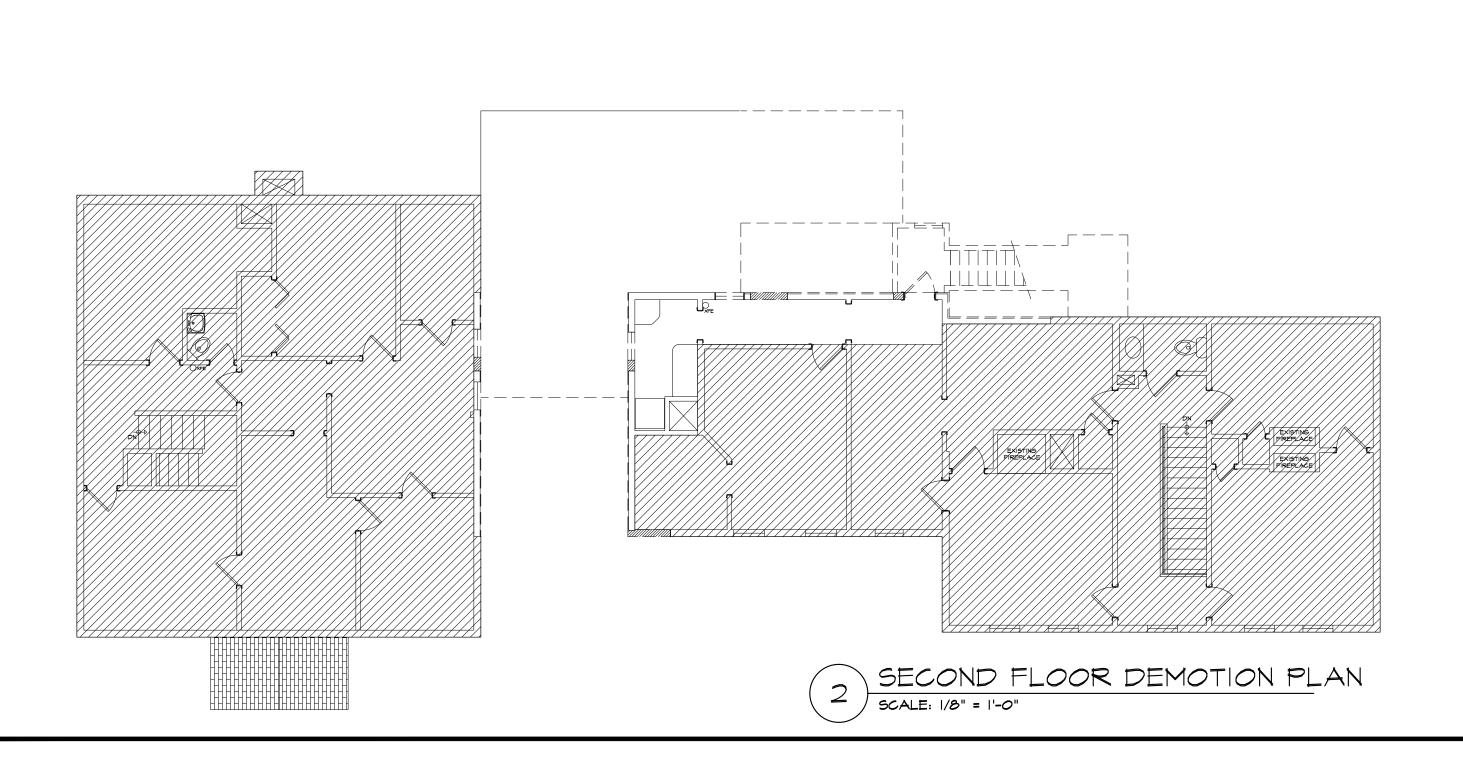
4.03 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK

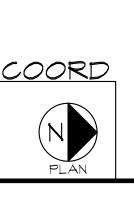
- A. DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK UNDER PROVISIONS OF SECTION 01120, SECTION 02072, AND THIS SECTION.
- B. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- C. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
- D. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
- E. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
- ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

 F. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT.
- G. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN
- NEWOVED.
- H. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
 J. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- K. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
- L. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.

4.04 CLEANING AND REPAIR

- A. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.
- B. PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.







ARCHITECTS

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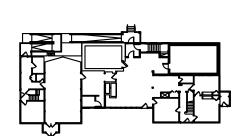
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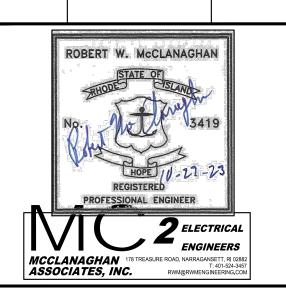




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REVISIONS

NUMBER REMARKS DATE



FOR CONSTRUCTION

PROJECT TITLE



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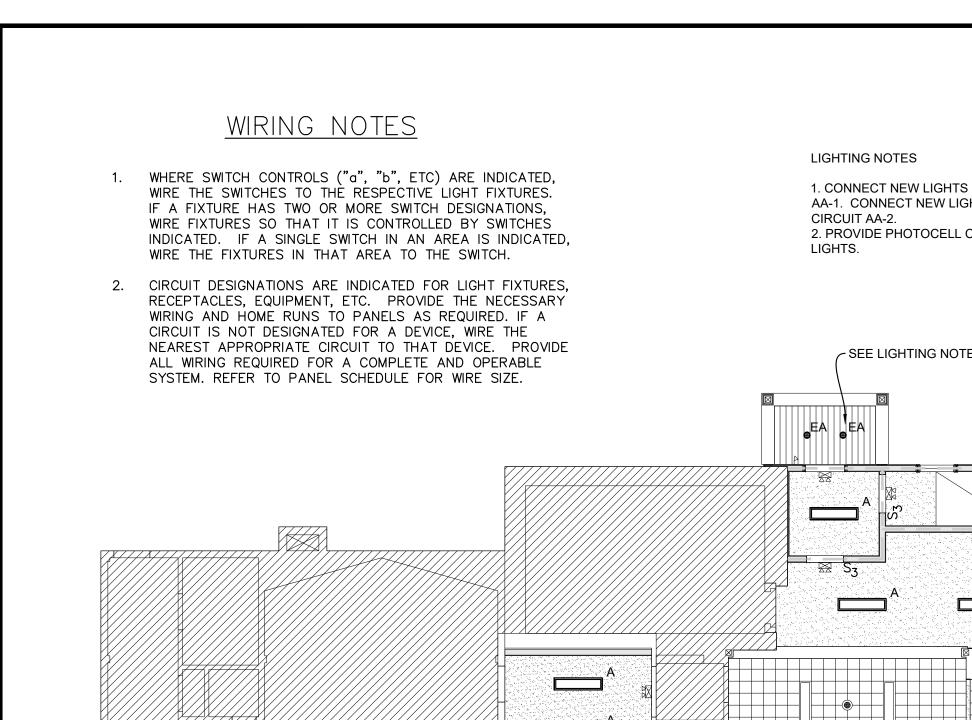
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ELECTRICAL
DEMOLITION

CONDITIONS PLAN					
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DRAWN BY	CHECKED BY				
PIAIM	PIMM				

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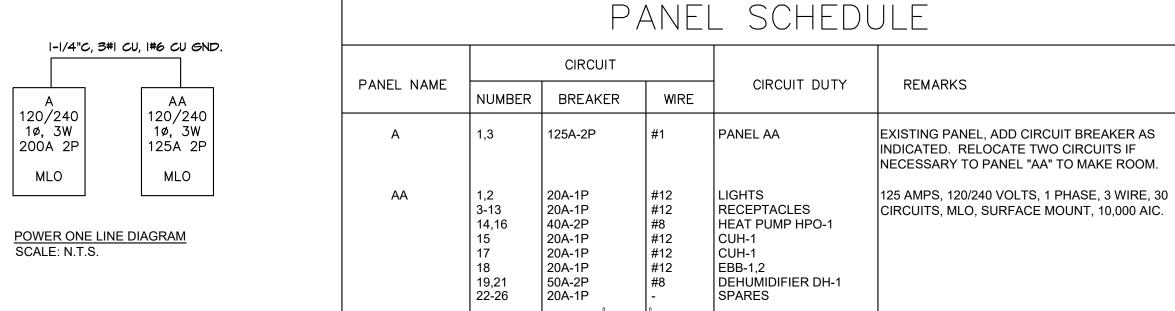
SEE LIGHTING NOTE #2 EXISTING FIREPLACE

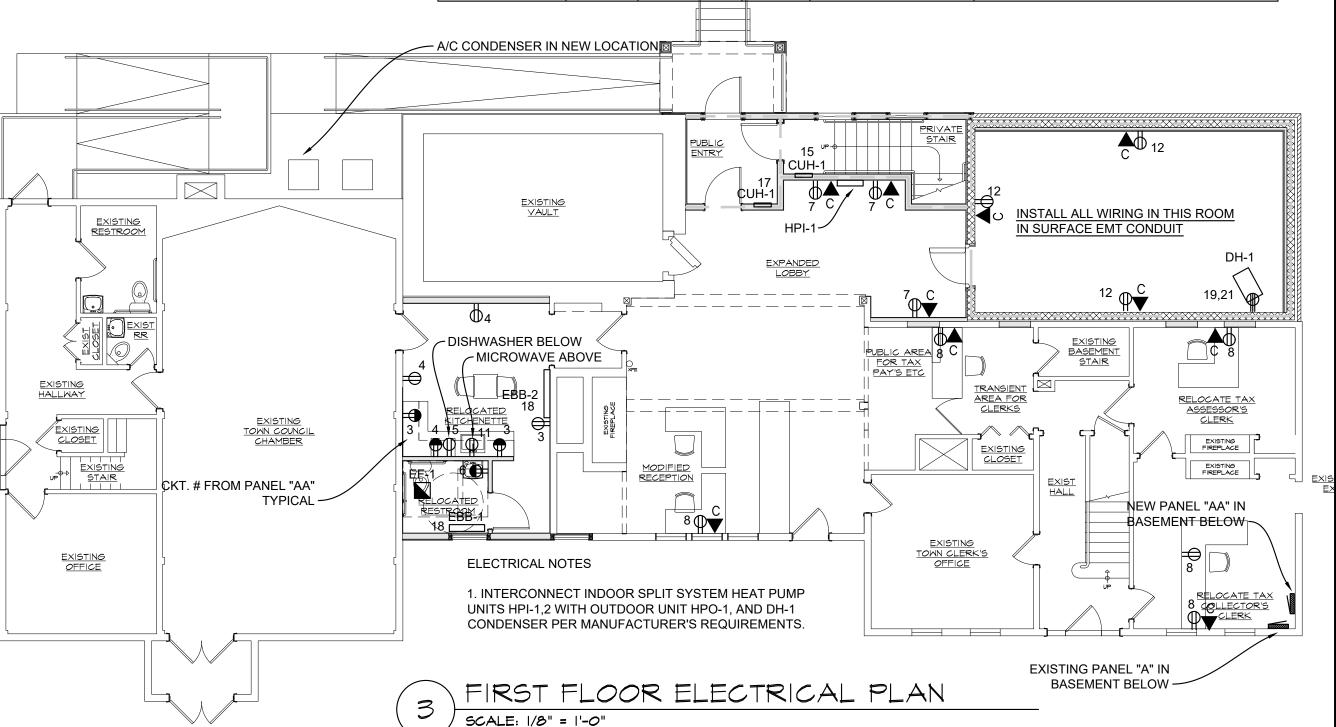
FIRST FLOOR LIGHTING PLAN

SECOND FLOOR LIGHTING PLAN

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

1. CONNECT NEW LIGHTS ON FIRST FLOOR TO CIRCUIT AA-1. CONNECT NEW LIGHTS ON SECOND FLOOR TO 2. PROVIDE PHOTOCELL CONTROL FOR NEW EXTERIOR





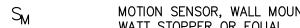
LICHT FIXTURE SCHEDIUE

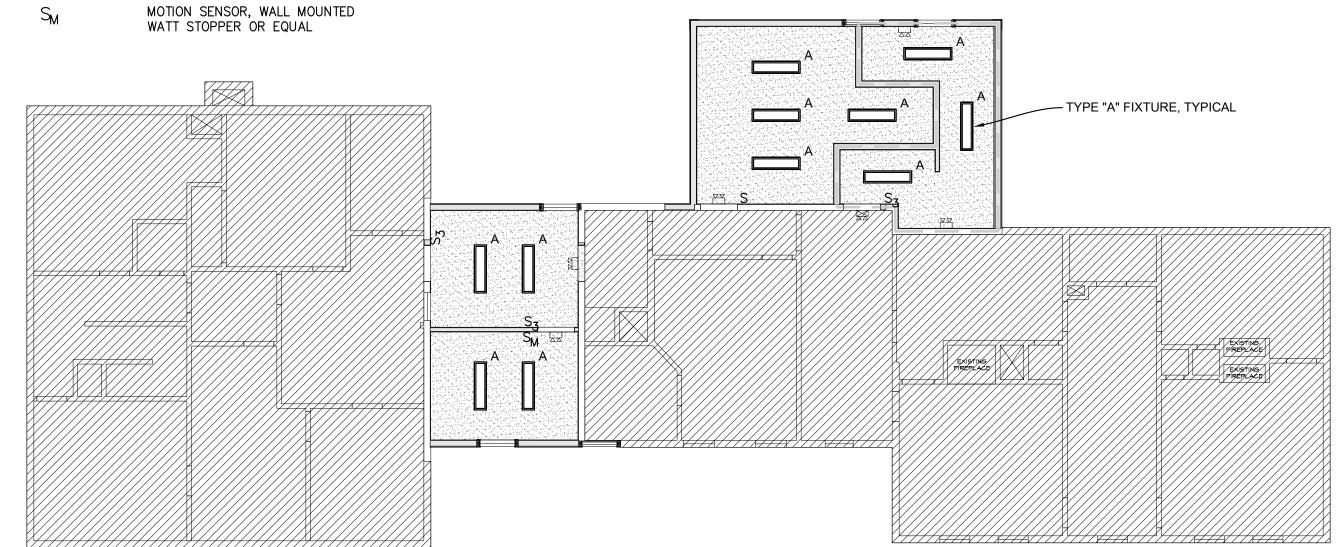
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TYPE	DESCRIPTION	MANUFACTURER	MODEL_NO.	LAMPS	MOUNTING	NOTES
Α	1'X4' WRAPAROUND	DAY-BRITE	OWL 4 40L 840 UNV	LED 4000 LUMENS	SURFACE	
В	2'X2' RECESSED	DAY-BRITE	2 FPZ 30L 840 2 DS UNV DIM	LED 3000 LUMENS	RECESSED	
EA	DOWNLIGHT	LIGHTOLIER	4R NEW C4L 15 940 M Z10 U C4 R DLCC	LED 1500 LUMENS	RECESSED	

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

<u>LIGHTING SYMBOLS</u>

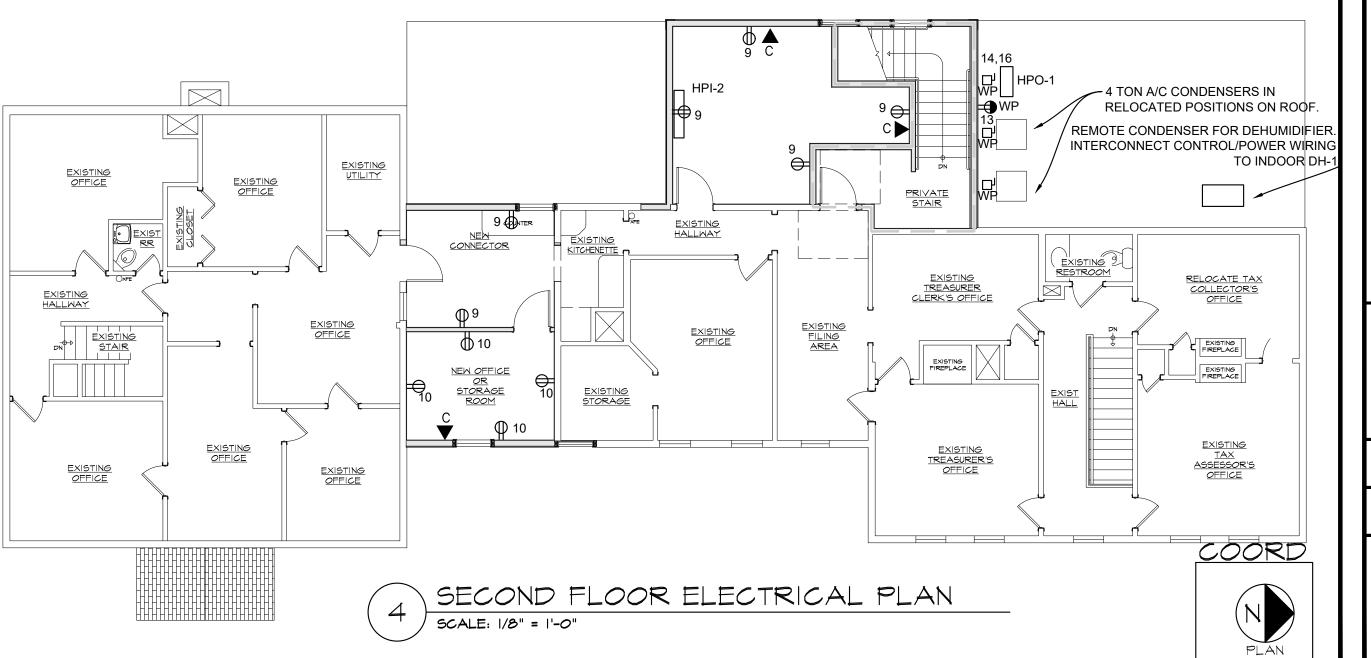
- TWO WAY TOGGLE SWITCH, 20A, MTD. 48" A.F. (MTD. 42" A.F. FOR HANDICAPPED)
- THREE WAY TOGGLE SWITCH, 20A, MTD. 48" A.F. (MTD. 42" A.F. FOR HANDICAPPED)





ELECTRICAL SYMBOLS

- DUPLEX RECEPTACLE, 20A. MOUNT 18" A.F.F. DUPLEX RECEPTACLE, GFI
- COMMUNICATIONS OUTLET, PROVIDE A SINGLE GANG BOX, MOUNTED 16" ABOVE FLOOR TO BOTTOM AND 3/4" CONDUIT UP TO ACCESSIBLE CEILING.
- ELECTRIC PANEL, SURFACE MOUNTED
- CONNECT TO LIGHTING CIRCUIT UNLESS NOTED.
- 220V RECEPTACLE.





& ASSOCIATES, INC. ARCHITECTS

310 George Washington Highway

Suite 100

Smithfield, Rhode Island

02917

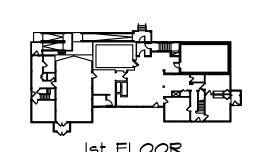
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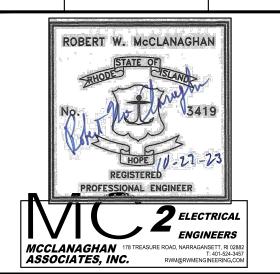
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NUMBER	REMARKS	DATE



FOR CONSTRUCTION



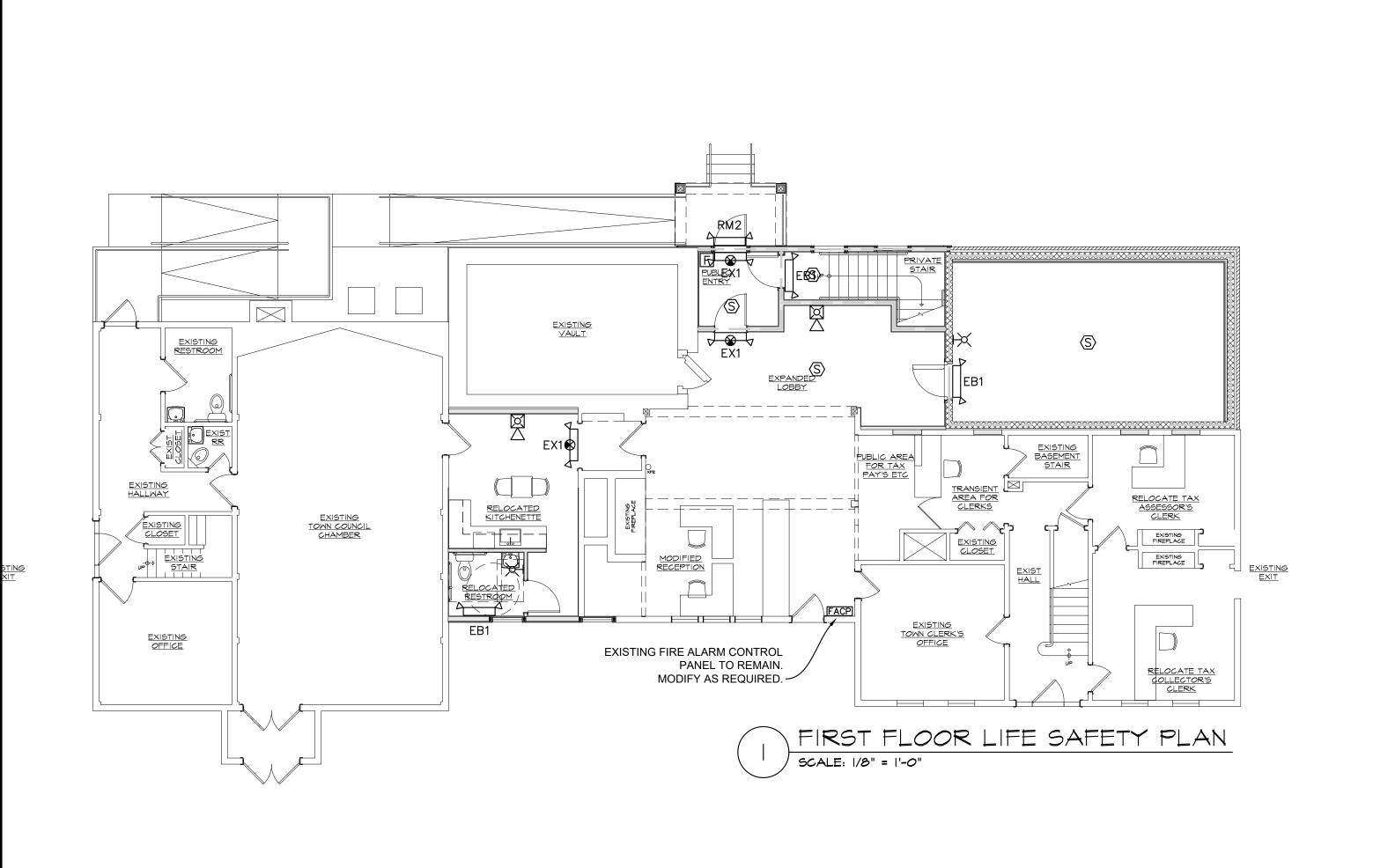
TOWN HALL ADDITION /RENOVATIONS

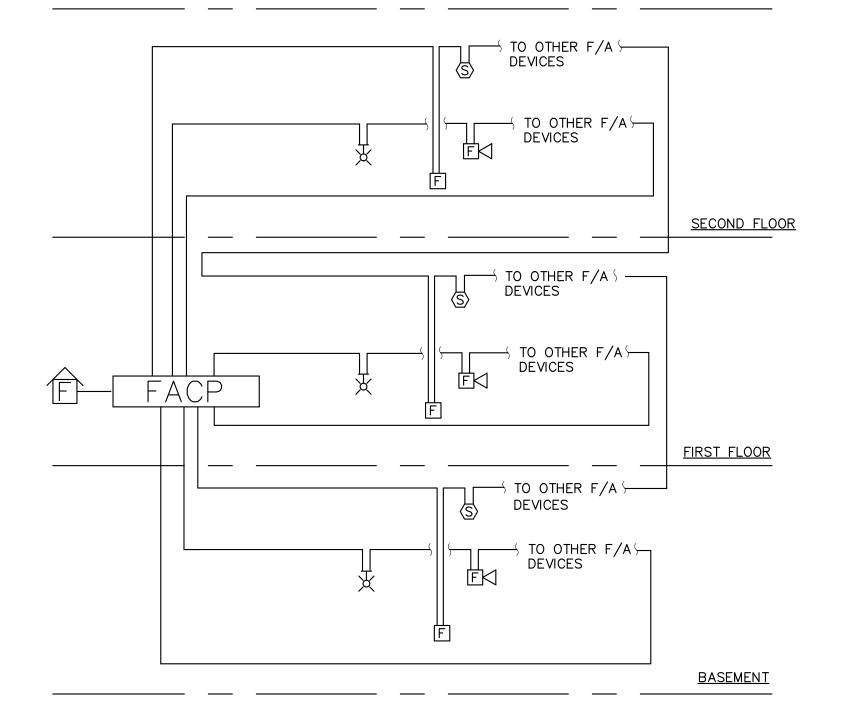
195 DANIELSON PIKE SCITUATE, RI 02857 Providence County

DRAWING TITLE

LIGHTING AND ELECTRICAL PLANS

OCT 27, 2023 CHECKED BY RWM RWM DRAWING NUMBER





NOTE: ALL WORK SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND FIRE SAFETY CODE AND THE TOWN OF SCITUATE REQUIREMENTS. ALL CIRCUITS ARE 2#14 IN EMT CONDUIT OR M/C CABLE (IF CONCEALED) U.N.O. THIS IS A CLASS "A" ADDRESSABLE SYSTEM. PROVÍDE ISOLATION MODULES ON INITIATING ZONES PER THE REQUIREMENTS OF THE RHODE ISLAND FIRE SAFETY CODE.

THE SYSTEM IS EXISTING. MODIFY OR ADD DEVICES AS INDICATED ON THE PLANS.

FIRE ALARM ONE LINE DIAGRAM

FIRE ALARM SYMBOLS ABBREV. DESCRIPTION

HEAT DETECTOR, RATE OF RISE

SMOKE DETECTOR, PHOTOELECTRIC

DUCT SMOKE DETECTOR

FIRE ALARM PULL STATION

FIRE ALARM HORN/LIGHT NUMBER INDICATES CANDELA RATING (15 MINIMUM)

FIRE ALARM STROBE

SPRINKLER TAMPER SWITCH

SPRINKLER OR ANSUL FLOW SWITCH

FIRE ALARM CONTROL PANEL

FIRE ALARM MASTER BOX

FIRE ALARM RELAY - PROVIDE FAN SHUTDOWN

FIRE ALARM MONITOR MODULE

FIRE ALARM CONTROL RELAY

FIREMATIC DEVICE FOR BOILER SHUTDOWN

FIRE ALARM KNOX BOX

NOTE: ALL SYMBOLS MAY NOT BE USED.

UNO

ARRKEV.	DESCRIP HON
A A.F.F. AHJ AIC ARCH ATS C C.B. CEF CKT CTR CUH E.C. EMT ETR G.C. GFI GND	AMPERES ABOVE FINISH FLOOR AUTHORITY HAVING JURISDICTION AMPS INTERRUPTING CAPACITY ARCHITECTURAL AUTOMATIC TRANSFER SWITCH CONDUIT CIRCUIT BREAKER CEILING EXHAUST FAN CIRCUIT COUNTER CABINET UNIT HEATER ELECTRICAL CONTRACTOR ELECTRICAL METALLIC TUBING EXISTING TO REMAIN GENERAL CONTRACTOR GROUND FAULT INTERRUPTING GROUND THOUSAND CIRCULAR MIL MECHANICAL CONTRACTOR METAL CLAD CABLE MAIN CIRCUIT BREAKER THOUSAND CIRCULAR MIL MAIN LUGS ONLY JUNCTION BOX POLE
P	POLE
REF	ROOF EXHAUST FAN
REM REP	REMOVE REPLACE
RGS	RIGID GALVANIZED STEEL
RGS RN	RELOCATED IN NEW POSITION
RR	REMOVE AND RELOCATE
RTU	ROOF TOP UNIT

UNLESS NOTED OTHERWISE

WEATHERPROOF

PHASE

EX1 EXIT SIGN, W/DUAL LED HEADS.

EMERGENCY LIGHT BATTERY POWERED,

(2) REMOTE EMERGENCY LIGHTING HEADS

EMERGENCY LIGHTING/EXIT SIGN SYMBOLS

BATTERY POWERED

WITH TWO LED HEADS

CONNECT TO NEAREST EXIT SIGN

AHARONIAN & ASSOCIATES, INC. A R C H I T E C T S

310 George Washington Highway Suite 100 Smithfield, Rhode Island 02917

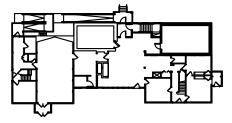
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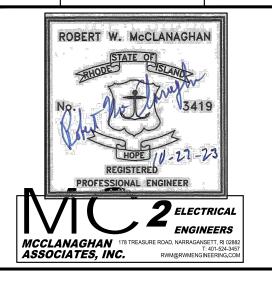
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TOWN HALL ADDITION /RENOVATIONS

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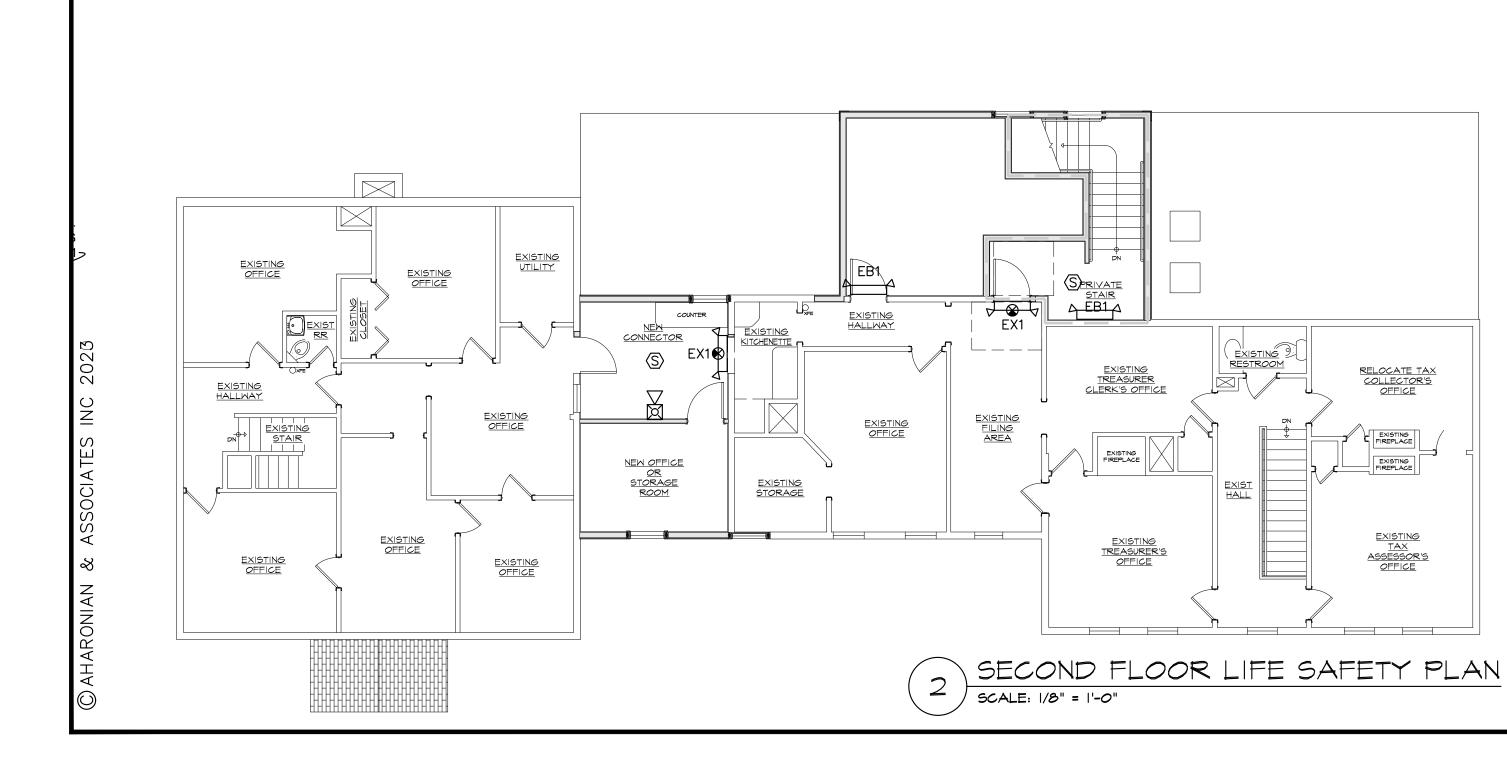
Providence County DRAWING TITLE

ELECTRICAL LIFE SAFETY PLANS

DATE	PROJ NO	
OCT 27, 2023		22173
DRAWN BY	CHECKED BY	
RWM		RWM

DRAWING NUMBER

E3.1



ELECTRICAL SPECIFICATIONS

DIVISION 16 — ELECTRICAL

16020 - ELECTRICAL WORK, GENERAL 16740 - TELEPHONE CONDUIT SYSTEMS

SECTION 16020

ELECTRICAL WORK, GENERAL

END OF SECTION

PART 1 - GENERAL

1.01 DESCRIPTION

- A. DIVISION 16 OF THE SPECIFICATIONS COVERS ALL ELECTRICAL WORK FOR THE PROJECT. WORK SHALL INCLUDE LABOR, MATERIAL AND ACCESSORIES NECESSARY TO ACCOMPLISH THE WORK AS SPECIFIED AND SHOWN ON THE DRAWINGS. INCLUDING CONNECTION AND CHECKOUTS OF EQUIPMENT FURNISHED BY OTHERS (OTHER TRADES, THE OWNER AND OTHER CONTRACTORS), AND TO ALL EQUIPMENT ITEMS AND AS INDICATED ON DRAWINGS OR AS REQUIRED.
- B. THE ARCHITECTURAL SPECIFICATIONS AND DRAWINGS INCLUDING THE GENERAL -CONDITIONS, INCLUDING ALL SUPPLEMENTS ISSUED THERETO, INSTRUCTIONS TO BIDDERS, AND OTHERS PERTINENT DOCUMENTS ISSUED BY THE ARCHITECT ARE A PART OF THESE SPECIFICATIONS AND FLECTRICAL DRAWINGS. THIS TRADE SHALL CONSULT THEM FOR INSTRUCTIONS WHICH APPLY TO HIM, DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL LAYOUT AND WORK INCLUDED. ELECTRICIAN SHALL FOLLOW DRAWINGS IN LAYOUT THE ELECTRICAL WORK AND CONSULT THE DRAWINGS AND LAYOUTS OF OTHER TRADES TO VERIFY LOCATION AND SPACES IN WHICH WORK WILL BE INSTALLED.

1.02 CODES, PERMITS AND INSPECTION

A. INSTALLATION SHALL COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL WORK IN EFFECT, INCLUDING THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. THE NATIONAL ELECTRICAL SAFETY CODE ALL LOCAL GOVERNING CODES AND ORDINANCES. WITH THE REGULATIONS OF THE SERVING ELECTRICAL UTILITY COMPANY, PROVIDE ALL REQUIRED PERMITS AND INCLUDE THE COST OF SAME IN THE COST OF THE PROJECT. OBTAIN AND PAY FOR (WITHOUT ADDITIONAL EXPENSE TO THE OWNER) ALL REQUIRED INSPECTIONS AND REVIEWS.

1.03 QUALITY ASSURANCE

- A. THE FOLLOWING INDUSTRY STANDARDS AS APPLICABLE TO ELECTRICAL WORK, SHALL APPLY TO THE WORK OF THIS DIVISION EXCEPT THAT. WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS ARE MORE THAN THE LISTED STANDARD, THESE SPECIFICATIONS SHALL TAKE PRECEDENCE:
- UI UNDERWRITERS' LABORATORIES
- NEMA NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION NECA - NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ASTM — AMERICAN SOCIETY OF TESTING MATERIALS.
- B. ALL MATERIALS SHALL BE NEW, UL LISTED AND LABELED WHERE LABELED MATERIALS ARE AVAILABLE, UNDAMAGED AND FREE OF DEFECTS AT TIME OF INSTALLATION, MATERIALS OR FOUIPMENT DAMAGED IN SHIPMENT OR OTHERWISE DAMAGED PRIOR TO OR DURING INSTALLATION SHALL NOT BE REPAIRED AT THE JOB SITE, BUT SHALL BE REPLACED WITH NEW MATERIALS. WHEN THE MANUFACTURER'S NAME APPEARS IN THESE SPECIFICATIONS AND DRAWINGS. IT SHALL BE CONSTRUED THAT THE MANUFACTURER HAS TO MEET THE FULL REQUIREMENTS OF THE SPECIFICATIONS

1.04 SUBMITTALS

A. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR EQUIPMENT. INCLUDE SUFFICIENT INFORMATION TO INDICATE COMPLETE COMPLIANCE WITH SPECIFICATIONS.

1.05 OWNER RECORDS

AND DRAWINGS.

- A. ACCUMULATE DURING THE PROGRESS OF THE JOB, THE FOLLOWING DATA IN DUPLICATE, AND PREPARE IN A NEAT BROCHURE OR PACKET FOLDER TO BE TURNED OVER TO THE OWNER AT SUBSTANTIAL COMPLETION: RECORD DRAWINGS PER ABOVE.
- B. ALL WARRANTIES, GUARANTEES, AND MANUFACTURER'S DIRECTION ON EQUIPMENT & MATERIAL FURNISHED. C. COMPLETE PLAIN ENGLISH STEP-BY-STEP OPERATING INSTRUCTIONS FOR THE ELECTRICAL SYSTEM. ONE COPY OF THESE INSTRUCTIONS SHALL BE FRAMED AND POSTED AS DIRECTED ON THE PREMISES.

1.06 MANUFACTURERS' NAMES AND CATALOG NUMBERS

- A. IN SOME INSTANCES, SPECIFIC REFERENCES HAVE BEEN MADE TO ONE OR MORE MANUFACTURER'S NAME AND MODEL OR CATALOG NUMBERS. USE OF NAMES AND CATALOG NUMBERS DOES NOT INDICATE THAT THE EQUIPMENT SPECIFIED IN NECESSARILY AN "OFF THE SHELF" ITEM. VARIANCES MAY BE DUE TO REQUIREMENT OF DESIRED FINISH, MATERIAL OR OTHER MODIFICATION.
- B. IN THE CASE OF PANELBOARDS, SAFETY SWITCHES AND OTHER EQUIPMENT REQUIRING WIRE AND CABLE TERMINATIONS. ASCERTAIN THAT LUG SIZES AND WIRING GUTTERS OR WIRING SPACE ALLOWED IS PROPER FOR THE WIRES AND CABLES CONTAINED THEREIN.
- WHEN APPROVAL IS GIVEN FOR THE USE OF EQUIPMENT DIFFERING FROM THAT SHOWN ON DRAWINGS IN REGARD TO FOUNDATIONS, SPACE FOR PIPING, DUCTWORK, WIRING, INSULATION, ETC. CHANGES REQUIRED TO ACCOMPLISH SUCH DIFFERENCES SHALL BE ACCOMPLISHED AT NO COST TO

1.07 PROTECTION OF EQUIPMENT

- A. ELECTRICAL EQUIPMENT SHALL BE PROTECTED FROM THE WEATHER, IN PARTICULAR, DRIPPING OR SPLASHING WATER. AT ALL TIMES DURING SHIPMENT, STORAGE AND CONSTRUCTION. MANUFACTURER'S RECOMMENDATIONS WITH REGARD TO STORAGE, PROTECTION, AND HANDLING
- SHOULD ANY APPARATUS BE SUBJECTED TO POSSIBLE INJURY DUE TO WATER, IT SHALL BE THOROUGHLY DRIED AND PUT THROUGH A DIELECTRIC TEST, AT THE EXPENSE OF THE CONTRACTOR, TO ASCERTAIN THE SUITABILITY OF THE APPARATUS OR IT SHALL BE REPLACED WITHOUT ADDITIONAL COST
- DAMAGED OR DEFECTIVE EQUIPMENT: INSPECT ALL ELECTRICAL EQUIPMENT AND MATERIALS PRIOR TO INSTALLATION. INSTALLATION OR PLACEMENT INTO SERVICE OF DAMAGED MATERIALS WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER IS PROHIBITED. REPLACE OR REPAIR TO NEW CONDITION. AS CERTIFIED BY THE MANUFACTURER, AND TEST DAMAGED EQUIPMENT IN COMPLIANCE WITH INDUSTRY STANDARDS AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT REQUIRED FOR THE TESTING SHALL BE PROVIDED BY THE CONTRACTOR.

1.08 WORKING CLEARANCE

- A. THE SIZE OF ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS IS BASED ON DIMENSIONS OF A PARTICULAR MANUFACTURER, (GENERALLY THE FIRST NAMED), WHILE OTHER MANUFACTURERS MAY BE ACCEPTABLE, IT IS THE RESPONSIBILITY OF THE TRADE TO DETERMINE IF THE EQUIPMENT PROPOSED WILL FIT IN THE ALLOCATED SPACE.
- INSTALL ALL EQUIPMENT IN A MANNER TO PERMIT ACCESS TO ALL SURFACES. MAINTAIN PROPER CLEARANCE TO MEET ALL SAFETY AND OPERATING CODES, PARTICULARLY N.E. CODE. INCLUDE ALL REQUIREMENTS DICTATED BY OPERATION, CONTROL, ADJUSTMENT, MAINTENANCE AND POSSIBLE REPLACEMENT OF EQUIPMENT IN DETERMINING CLEARANCE.
- C. SHOULD THERE BE APPARENT VIOLATIONS OF N.E. CODE CLEARANCE, NOTIFY THE ARCHITECT-ENGINEER BEFORE PROCEEDING WITH CONNECTION OR PLACEMENT OF EQUIPMENT.

- A. INSTALLATION STUDIES ARE REQUIRED TO COORDINATE THE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES. PREPARE COORDINATION DRAWINGS AT ACCURATE SCALE WHERE SEVERAL ELEMENTS OF ELECTRICAL OR COMBINED MECHANICAL/STRUCTURAL/ELECTRICAL WORK MUST BE SEQUENCED AND POSITIONED WITH PRECISION IN ORDER TO FIT INTO THE AVAILABLE SPACE
- B. SHOW THE ACTUAL PHYSICAL DIMENSIONS REQUIRED FOR PROPER INTEGRATION OF EQUIPMENT WITH BUILDING SYSTEMS.
- PROVIDE APPROVED SHOP DRAWINGS TO ALL REQUIRED DISCIPLINES AND VERIFY FINAL ELECTRICAL CHARACTERISTICS BEFORE ROUGHING POWER FEEDS TO ANY EQUIPMENT. WHEN ELECTRICAL DATA ON APPROVED SHOP DRAWINGS DIFFERS FROM CONTEMPLATED DESIGN. MAKE NECESSARY ADJUSTMENTS TO THE WIRING, DISCONNECTS, AND BRANCH-CIRCUIT PROTECTION FOR THE
- EQUIPMENT ACTUALLY INSTALLED AT NO ADDITIONAL COST TO THE OWNER. D. DAMAGE FROM INTERFERENCE CAUSED BY INADEQUATE COORDINATION SHALL BE RECTIFIED AT NO ADDITIONAL COST TO THE OWNER.

1.10 WORKMANSHIP

- ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED. ANY MATERIAL ITEMS OR WORK NOT SHOWN ON THE DRAWINGS. BUT MENTIONED IN THESE SPECIFICATIONS OR VISA-VERSA, OR ANY ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE
- THIS TRADE SHALL DO OR HAVE DONE BY COMPETENT TRADESMEN ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF THIS WORK. NO CUTTING IN CONSTRUCTIVE PARTS OF THE BUILDING LIKELY TO IMPAIR ITS STRENGTH SHALL BE DONE WITHOUT THE ARCHITECT-ENGINEER'S WRITTEN APPROVAL.

IN ALL RESPECTS AND READY FOR OPERATION SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE

- 1.11 EXCAVATION AND BACKFILL
- EXCAVATION, TRENCHING AND BACKFILLING ARE SPECIFIED IN SECTION EXCAVATION TRENCHING AND BACKFILLING FOR UTILITIES. CONDUIT IS TO BE INSTALLED AS SPECIFIED FOR PIPELINES. CONDUIT INSTALLED BENEATH FLOOR SLAB SHALL BE A MINIMUM OF 6" BELOW SLAB. BACKFILL OVER CONDUIT SHALL BE COMPACTED AS FOR SLAB BEDDING MATERIAL. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF CONDUIT (PIPE) PENETRATION OF EXTERIOR FOOTINGS. COMPLETE INSTALLATION SHALL CONFORM TO N.E.C. TABLE 300-5

PART 2 - PRODUCTS

2.01 GENERAL

- A. ALL EQUIPMENT OF A PARTICULAR KIND, SUCH AS WIRING DEVICES AND PANELBOARDS AND ALL LIGHTING FIXTURES OF THE SAME TYPE, SHALL BE THE PRODUCT OF THE SAME MANUFACTURER.
- B. PROVIDE ACCESS PANELS FOR ALL EQUIPMENT AND DEVICES REQUIRING SAME. SIZE AS REQUIRED FOR PROPER ACCESS AND MAINTENANCE, MINIMUM ACCEPTABLE IS 12 IN, BY 12 IN, CLEAR OPENING WHERE HAND ACCESS ONLY IS REQUIRED.
- PROVIDE LABELS FOR EACH MOTOR CONTROLLER, SAFETY SWITCH, RELAY, PANELBOARD, CONTRACTOR, TIMER, CONTROL DEVICE, METER AND CIRCUIT BREAKER, LABELS SHALL BE LAMINATED, PHENOLIC STRIPS 1/16 INCH THICK, AND ENGRAVED TO SHOW BLACK LETTERS ON A WHITE BACKGROUND NOT LESS THAN 1/4 INCH HIGH. SIZE STRIPS TO PROPERLY FIT MANUFACTURER'S BRACKETS AND BE LEGIBLE. WHERE MANUFACTURER'S BRACKETS ARE NOT PROVIDED, MOUNT LABELS WITH PROPER SCREWS, OR AN APPROVED ADHESIVE.

2.02 RACEWAYS

- CONDUIT, RIGID STEEL; GALVANIZED OR SHERADIZED AND MANUFACTURED IN ACCORDANCE WITH ANSI STANDARD C80.L. FITTINGS SHALL BE PIPE THREADED, MALLEABLE IRON. CONNECTORS SHALL BE INSULATED THROAT TYPE.
- B. CONDUIT, PVC: POLYVINYLCHLORIDE SCHEDULE 40 PIPE SPECIFICALLY MANUFACTURED AND LABELED (UL STANDARD 651) FOR USE AS ELECTRICAL CONDUIT. FITTINGS SHALL BE EITHER SOCKET WELDED TYPE OR PIPE THREADED WITH INSULATED THROAT.
- C. CONDUIT, FLEXIBLE METALLIC: GALVANIZED, INTERLOCKED SPIRALLY WOUND STEEL STRIP WITH GALVANIZED OR SHERADIZED FITTINGS. LISTED PER UL-L. FITTINGS SHALL BE OF THE SQUEEZE TYPE WITH INSULATED THROATS. CONDUIT, LIQUIDTIGHT FLEXIBLE METALLIC: GALVANIZED, INTERLOCKED SPIRALLY WOUND STEEL STRIP WITH OVERALL JACKET OF LIQUID TIGHT PYC, UL LISTED. FITTINGS SHALL BE STEEL OR MALLEABLE IRON INSULATED THROAT, WATERTIGHT
- D. ELECTRIC METALLIC TUBING; GALVANIZED OR SHERADIZED AND MANUFACTURED IN ACCORDANCE WITH ANSI STANDARD C80.3. FITTINGS L/2 INCH THROUGH 2 INCH TRADE SIZE SHALL BE COMPRESSION TYPE, MANUFACTURED FROM MALLEABLE IRON OR STEEL, AND RAIN AND/OR CONCRETE-TIGHT AS REQUIRED BY INSTALLATION. POT METAL OR DIE CAST TYPE FITTINGS ARE PROHIBITED. CONNECTORS SHALL BE INSULATED THROAT TYPE.

2.03 CONDUCTORS AND CABLE

- GENERAL: ALL CONDUCTORS SHALL BE NINETY-EIGHT PERCENT (98%) CONDUCTIVITY SOFTDRAWN COPPER, NEW, INSULATED IN ACCORDANCE WITH N.E. CODE FOR THE TYPE OF SERVICE. UNLESS OTHERWISE NOTED. CONDUCTORS NO. 8 AWG AND LARGER SHALL BE INSULATED WITH TYPE "THW" INSULATION AND HAVE STRANDED CONDUCTORS. ALL OTHER CONDUCTORS SHALL BE INSULATED WITH TYPE "THWN" INSULATION AND HAVE SOLID CONDUCTORS. EXCEPT THAT WIRE IN FIXTURE CHANNELS AND OTHER SPECIAL LOCATIONS SHALL BE AS SPECIFICALLY NOTED TO THE CONTRARY ON THE DRAWINGS OR IF THE N.E. CODE. INSULATION SHALL BE RATED FOR 600 VOLTS AC SERVICE, MINIMUM AND COLOR CODED IN ACCORDANCE WITH ACCEPTED STANDARDS.
- CONNECTORS FOR SPLICING CONDUCTORS 10 AWG AND SMALLER SHALL BE "LIVE-SPRING" TYPE PRESSURE CONNECTORS AS MANUFACTURED BY 3M "SCOTCHLOK" OR APPROVED EQUAL.
- CONNECTORS FOR #8 AWG AND LARGER SHALL BE TWO-WAY LONG BARREL MECHANICAL COMPRESSION TYPE WITH INSULATING COVER, BY BURNDY OR T&B.
- TERMINATIONS FOR MOTORS WITH #10 AWG AND SMALLER CONDUCTORS IN INTERIOR LOCATIONS MAY BE MADE WITH SPRING TYPE PRESSURE CONNECTORS, #8 AWG AND LARGER SHALL BE THOMAS & BETTS "MOTOR PIGTAIL CONNECTORS" WITH SLIP-ON INSULATORS SECURED BY
- ELECTRICAL INSULATING TAPE SHALL BE SCOTCH "SUPER 88" OR APPROVED EQUAL.
- F. NM TYPE CABLE CAN BE USED IF ACCEPTED BY LOCAL AUTHORITY AND GOVERNING CODES.

2.04 BOXES

- OUTLET BOXES: GALVANIZED PRESSED STEEL WITH GALVANIZED STEEL EXTENSION RINGS OR PLASTER RINGS OR TILE RINGS TO PROVIDE EXPOSED SURFACE FLUSH WITH WALL OR CEILING FINISH. PROVIDE ALL CEILING OUTLET BOXES WITH "NO-BOLT" OR THROUGH AND LOCKNUTTED TYPE FIXTURE STUDS.
- B. JUNCTION AND PULL BOXES: FABRICATE IN ACCORDANCE WITH NEMA AND N.E. CODE STANDARDS AND REQUIREMENTS INSOFAR AS MATERIAL, GAUGES, DIMENSIONS, AND FABRICATION METHODS. BOXES SHALL BEAR THE UL LABEL. WHERE BOXES ARE NOT SIZED ON THE DRAWINGS, THEY SHALL BE SIZED IN ACCORDANCE WITH N.E. CODE REQUIREMENTS. FINISH IN STANDARD GRAY ENAMEL, WITH SIDES AND BACK SPOT-WELDED IN POSITION AND THE REMOVABLE SCREW COVER MOUNTED WITH BRASS MACHINE SCREWS.
- FLOOR BOXES: ROUND CAST IRON FULLY ADJUSTABLE DEEP STEEL FLOOR BOXES, WITH BRASS DUPLEX FLAP COVER. HUBBELL #B2503 (BOX) & HSF3925 (COVER) OR EQUAL.

2.05 WIRING DEVICES

- SWITCHES: HEAVY DUTY AC, RATED 20 AMPERES, 120/277 VOLTS, SINGLE-POLE, DOUBLE-POLE, THREE—POLE, OR FOUR—WAY AS NOTED ON DRAWINGS OR AS REQUIRED FOR THE SWITCHING ARRANGEMENTS IN EACH SPACE. HUBBELL #HBL122** OR EQUAL. COORDINATE SWITCH COLORS WITH COVERPLATES AS DESCRIBED BELOW UNDER "PLATES".
- SWITCHES, SPECIAL PURPOSE: KEY OPERATED, HEAVY-DUTY AC RATED 20 AMPERES 120/277 VOLTS, SINGLE OR MULTI-POLE AS NOTED OR AS REQUIRED. HUBBELL #HBL122** OR EQUAL.
- RECEPTACLES: THREE WIRE GROUNDING TYPE, 120 VOLT RATED, SPECIFICATION GRADE 20 AMPERES DUPLEX UNLESS NOTED. HUBBELL #5362 OR EQUAL. COORDINATE RECEPTACLE COLOR WITH COVERPLATE AS DESCRIBED BELOW UNDER "PLATES". SINGLE RECEPTACLE, 20 AMPERE, 120 VOLT, SPECIFICATION GRADE. HUBBELL #5361 OR EQUAL.
- D. DUST AND MOISTURE RESISTANT, MELAMINE BODY, GRAY NYLON FACE BACKED BY FABRIC REINFORCED NEOPRENE GASKET SLIT TO PROVIDE WIPING ACTION ON CAP BLADES. PASS & SEYMOUR #6307 OR APPROVED EQUAL. GROUND FAULT CIRCUIT INTERRUPTER, NYLON FACE CLASS A, NEMA 5-20R, SPECIFICATION GRADE. HUBBELL #GF-5362* OR EQUAL.
- CORROSION RESISTANT, SIMILAR AND APPROVED EQUAL TO STANDARD RECEPTACLE, EXCEPT FABRICATED FROM YELLOW MELAMINE PLASTIC WITH YELLOW NYLON FACE AND EXPOSED METAL PARTS FINISHED TO RESIST CORROSION. (NEMA 5-15R = HUBBELL #52CM61)
- ISOLATED GROUND, DUPLEX OR SIMPLEX THREE WIRE GROUNDING TYPE, SPECIFICATION GRADE, ORANGE FACE, GROUND CONTACT FULLY ISOLATED FROM STRAP AND EQUIPPED WITH SCREW TERMINAL. HUBBELL #IG-5362* OR EQUAL.
- G. RECEPTACLES, SPECIAL PURPOSE: SPECIAL PURPOSE OUTLETS SHALL BE AS SCHEDULED ON DRAWINGS (AS APPLICABLE).
- H. PLATES: PROVIDE PLATES FOR ALL OUTLET BOXES. PLATES SHALL BE OF SUITABLE CONFIGURATION FOR THE NUMBER AND TYPE OF DEVICES SERVED, SHALL BE ONE PIECE, SHALL OVERLAP OUTLET BOX EDGE AND ROOM SURFACES, AND SHALL BE SMOOTH FINISH TYPE.
- STANDARD INTERIOR: IVORY FINISHED ON LIGHT COLORED WALLS AND DARK BROWN FOR RECEPTACLES INSTALLED ON WOOD WAINSCOT PORTION OF WALL. J. INTERIOR DAMP LOCATIONS: STAINLESS STEEL.
- K. EXTERIOR LOCATIONS: DIE CAST ALUMINUM BAKED LACQUER FINISHED WITH HEAVY RUBBER GASKETS AND GRAVITY CLOSED SOLID COVER(S) U.L. LISTED OR WET AND DAMP LOCATIONS WITH PLUG PERMANENTLY INSTALLED. INTERIOR LOCATIONS WITH SURFACE MOUNTED BOXES: RAISED NON-OVERHANGING TYPE FITTING NEATLY TO BOX WITH OPENING PROPERLY FITTING THE INSTALLED
- ACCEPTABLE MANUFACTURERS: HUBBELL, PASS & SEYMOUR, LEVITON. NOTE: NOT ALL ITEMS AVAILABLE FROM ALL LISTED SUPPLIERS.

2.06 CABINETS AND ENCLOSURES

A. FURNISH AND INSTALL FLUSH CABINETS AND ENCLOSURES AS SHOWN ON THE PLANS AND AS HEREIN SPECIFIED. UNIT SHALL BE PROVIDED WITH DEAD FRONT SUB PANEL, RECESSED AS REQUIRED, TO HOUSE CONTROLS. DOOR SHALL BE PROVIDED WITH CONCEALED HINGES AND FLUSH KEY OPERATED LOCK. DOOR AND TRIM SHALL BE PRIME PAINTED FOR FIELD PAINTING TO MATCH WALL FINISHES. PROVIDE KNOCK-OUTS, LOUVERS AND IDENTIFICATION ENGRAVING AS REQUIRED TO MEET FIELD CONDITIONS. EXACT BACKBOX SIZE TO BE COORDINATED WITH EQUIPMENT SUPPLIER.

2.07 CIRCUIT DISCONNECTS

SAFETY SWITCHES: SAFETY SWITCHES SHALL CONSIST OF A BOX, FRONT COVER, AND CIRCUIT PROTECTOR DEVICE ALL MANUFACTURED AND ASSEMBLED IN ACCORDANCE WITH NEMA STANDARDS WITH U.L. LISTING AND LABEL. THE CIRCUIT PROTECTOR DEVICE SHALL BE GENERAL DUTY. QUICK-MAKE, QUICK-BREAK FUSED OR UNFUSED SWITCH RATED FOR MOTOR CIRCUITS AND/OR SERVICE ENTRANCE DUTY. IF REQUIRED. UNITS SHALL BE FURNISHED FOR SURFACE OR FLUSH MOUNTING WITH EITHER GENERAL PURPOSE OR RAINTIGHT ENCLOSURES, AS REQUIRED. FUSED UNITS SHALL BE FURNISHED COMPLETE WITH PROPER FUSES.

2.08 PANELBOARDS/SWITCHBOARD

- A. SHALL CONSIST OF BOX, INTERIOR, FRONT, AND CIRCUIT PROTECTIVE DEVICES. THE ASSEMBLY SHALL BE U.L. LABELED AND BE LISTED FOR SERVICE. THE ASSEMBLY SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE LATEST NEMA STANDARDS.
- B. THE BOX SHALL BE FABRICATED FROM CODE GAUGE GALVANIZED SHEET STEEL IN ACCORDANCE WITH THE LATEST UL STANDARDS. PANELBOARDS SHALL BE PROVIDED WITH STANDARD KNOCKOUTS ON BOX. ALL FRONTS SHALL HAVE A DOOR, MOUNTED ON SEMI-CONCEALED HINGES WITH A LOCK, INDEX CARD CIRCUIT DIRECTORY MOUNTED BEHIND CLEAR PLASTIC AND HELD IN A METAL FRAME. ALL LOCKS SHALL BE MASTER KEYED AND ALL DIRECTORIES SHALL BE TYPEWRITTEN.
- C. ALL INTERIORS SHALL BE COMPLETELY FACTORY ASSEMBLED. THE DESIGN OF THE INTERIOR SHALL PERMIT REPLACEMENT OF INDIVIDUAL BRANCH BREAKERS WITHOUT DISTURBING ADJACENT UNITS AND WITHOUT MACHINE DRILLING OR TAPPING BUS BARS SHALL BE ALLOY PLATED COPPER. BUS BAR CONNECTIONS SHALL BE PHASE SEQUENCE TYPE AND ACCEPT BOLT-ON TYPE BREAKERS ONLY. PANELBOARD/SWITCHBOARD BUS STRUCTURE AND MAIN BREAKER OR MAIN LUGS ONLY SHALL BE RATED AS SCHEDULED ON DRAWING.

- D. BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, THERMAL-MAGNETIC MOLDED CASE CIRCUIT BREAKERS ONE, TWO OR THREE POLE WITH INTEGRAL CROSSBAR FOR MULTI-POLE UNITS, EQUIPPED WITH AN OVERCENTER, TRIP FREE, TOGGLE-TYPE OPERATING ACTION AND POSITIVE HANDLE INDICATION OF BREAKER STATUS. CIRCUIT BREAKERS SHALL BE UL LISTED IN ACCORDANCE WITH
- E. EACH BOARD, AS A COMPLETE UNIT, SHALL HAVE A SHORT CIRCUIT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT FAULT CURRENTS AVAILABLE AT ITS SUPPLY TERMINALS. COORDINATE EXACT FAULT CURRENT REQUIREMENTS WITH THE POWER COMPANY.
- BOARDS SHALL BE MARKED WITH THEIR MAXIMUM SHORT CIRCUIT CURRENT RATING, AND MAXIMUM VOLTAGE RATING. A "SERIES RATED" SYSTEM IS ACCEPTABLE.
- G. PROVIDE WEATHERPROOF CABINET (NEMA-3R) AS APPLICABLE.
- H. ACCEPTABLE MANUFACTURER: SQ-D COMPANY OR EQUAL.

2.09 OVERCURRENT PROTECTIVE DEVICES

- A. FUSES: FUSES OF THE PROPER SIZE, RATING AND ELECTRICAL CHARACTERISTICS SHALL BE PROVIDED IN EACH FUSIBLE DEVICE. FUSES OF 600 VOLTS AND BELOW SHALL BE UL CLASS RK-1. CURRENT-LIMITING. TIME-DELAY. DUAL-ELEMENT. 200.000 AMPERE RMS SYMMETRICAL INTERRUPTING CAPACITY ON NON-MOTOR CIRCUITS AND UL CLASS RK-5. TIME-DELAY. DUAL-ELEMENT, 200,000 AMPERES RMS SYMMETRICAL INTERRUPTING CAPACITY ON MOTOR
- APPROVED MANUFACTURERS: BUSSMANN OR GOLD SHAWMUT (ALL FUSES SHALL BE OF SAME MANUFACTURER TO INSURE SELECTIVE COORDINATION).
- CIRCUIT BREAKERS: CIRCUIT BREAKERS OF THE PROPER SIZE, RATING, AND ELECTRICAL CHARACTERISTICS SHALL BE PROVIDED WHERE CALLED FOR ON DRAWINGS. BREAKERS SHALL BE THERMAL MAGNETIC MOLDED-CASE WITH QUICK-MAKE, QUICK-BREAK, OVER CENTER TOGGLE TYPE MECHANISM AND TRIP-FREE HANDLE MECHANISM. THE BREAKER SHALL BE ENCLOSED IN A SUITABLE NEMA RATED ENCLOSURE. BREAKERS SHALL BE OF SAME MANUFACTURER AS THOSE IN THE PANELBOARDS/SWITCHBOARD.

2.10 LIGHTING

- A. FIXTURES ARE SPECIFIED IN THE SCHEDULE BY MANUFACTURER'S NAME AND CATALOG NUMBER.
- B. ALL RECESSED INCANDESCENT LIGHT FIXTURES SHALL BE PROVIDED WITH FACTORY INSTALLED THERMAL PROTECTION.

(BUSSMANN TYPE MLR-FLR OR APPROVED EQUAL).

- C. LAMPS: ALL LAMPS USED ON THIS PROJECT SHALL BE NEW, DELIVERED TO THE JOB SITE IN THE ORIGINAL PACKING CASES AND SLEEVES AND SHALL BE OF THE SAME MANUFACTURER. BALLASTS: PROVIDE FLUORESCENT FIXTURES WITH CBM AND UL LISTED FULL LIGHT OUTPUT ELECTRONIC BALLASTS, "A" SOUND RATED, EQUIPPED WITH BUILT-IN THERMAL CUT-OUT WITH AUTOMATIC RESET, A TWO YEAR GUARANTEE ON PARTS AND LABOR, AND AN IN-LINE FUSE
- APPROVED MANUFACTURERS: ADVANCE MARK III FULL LIGHT OUTPUT OR GENERAL ELECTRIC MAXI-MISER II. E. BALLASTS FOR OTHER THAN FLUORESCENT FIXTURES SHALL BE STANDARD CLASS P WITH IN-LINE FUSE
- AND THE HIGHEST SOUND RATING AVAILABLE. APPROVED MANUFACTURERS: ADVANCE, GENERAL ELECTRIC, OR UNIVERSAL. F. HID BALLASTS SHALL BE AUTO TRANSFORMER REACTOR, HIGH POWER FACTOR POTTED AND ENCASED
- TO MINIMIZE SOUND. 1. APPROVED MANUFACTURERS: GENERAL ELECTRIC, SYLVANIA, OR PHILIPS.

2.11 CONTACTORS AND RELAYS

- ALL CONTACTORS AND RELAYS SHALL BE UL LISTED AND LABELED, GENERAL PURPOSE, ELECTRICALLY HELD TYPE, IN NEMA 1 ENCLOSURES. WHERE SPECIFICALLY NOTED ON DRAWINGS, UNITS SHALL BE ELECTRICALLY HELD OR MOMENTARY OPERATIONAL TYPE. UNITS SHALL BE FURNISHED WITH LINE OR LOW VOLTAGE CONTROL AS NOTED AND WITH THE CORRECT NUMBER OF POLES AND CURRENT CHARACTERISTICS. WHERE LOW VOLTAGE OPERATION IS INDICATED, PROVIDE PROPER STEPDOWN TRANSFORMERS AND RECTIFIERS.
 - 1. APPROVED MANUFACTURERS: ALLEN-BRADLEY, ASCO, OR MANUFACTURER OF APPROVED PANELBOARDS FURNISHED.

PART 3 - EXECUTION

3.01 METHOD OF PROCEDURE

- A. ERECT EQUIPMENT PARTS AT SUCH TIME AND IN SUCH MANNER AS TO MINIMIZE INTERFERENCES AND DELAYS IN THE EXECUTION OF THE WORK CARE SHALL BE USED IN THE ERECTION AND INSTALLATION OF ALL EQUIPMENT AND MATERIALS TO AVOID MARRING SURFACES OF THE WORK. DAMAGES SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- B. EQUIPMENT REQUIRING ELECTRICAL SERVICE SHALL NOT BE ENERGIZED OR PLACED IN SERVICE UNTIL ALL INTERESTED PARTIES HAVE BEEN DULY NOTIFIED AND ARE PRESENT OR HAVE WAIVED THEIR RIGHT TO BE PRESENT. WHERE EQUIPMENT TO BE PLACED IN SERVICE INVOLVES SERVICE OR CONNECTION FROM ANOTHER CONTRACTOR OR THE OWNER, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING WHEN THE EQUIPMENT WILL BE READY. THE OWNER SHALL BE NOTIFIED AS FAR IN ADVANCE AS POSSIBLE, OF THE DATE THE VARIOUS ITEMS OF EQUIPMENT WILL BE
- C. THE WORK OF THIS TRADE INCLUDES ROUGH-IN FOR AND FINAL CONNECTION & REQUIRED TO ALL MISCELLANFOUS FOUIPMENT FURNISHED BY OTHERS, OR UNDER OTHER DIVISIONS OF THE WORK, THIS SHALL INCLUDE POWER AND CONTROL WIRING, WIRING DEVICES AND COVER-PLATES FOR BUILT—IN FOLIPMENT ARE INCLUDED IN THE WORK OF THIS DIVISION, SAFFTY DISCONNECTS AND OTHER MISCELLANFOLIS PROTECTIVE DEVICES REQUIRED BY N.E. CODE ARE INCLUDED IN THE WORK OF THIS DIVISION. DO ALL ROUGHING-IN AND FINAL CONNECTIONS FROM APPROVED SHOP
- D. COMPLIANCE WITH THE DRAWING AND ANY NOTES THEREON IS REQUIRED. PROVIDE OPENINGS THROUGH WALLS, PARTITIONS, FLOORS, AND ROOFS AS REQUIRED FOR ELECTRICAL WORK.
- E. PROVIDE SLEEVES FOR ELECTRICAL WORK PASSING THROUGH WALLS, PARTITIONS, ROOFS, AND FLOORS. SLEEVES SHALL EXTEND THROUGH FLOORS, WALLS AND PARTITIONS AND SHALL BE CUT FLUSH WITH FACH SURFACE UNIFSS OTHERWISE SPECIFIED. FIRE WALL AND OR FLOOR INTEGRITY SHALL BE RESTORED AFTER PENETRATION. SLEEVES IN CONCRETE AND MASONRY WALLS, CONCRETE FLOORS AND ROOFS. SHALL BE FABRICATED FROM STANDARD GALVANIZED STEEL PIPE WITH ENDS FINISHED SMOOTH, BURR FREE, WITHOUT SHARP EDGES, SLEEVES IN WALLS, ROOFS, AND FLOORS OF OTHER CONSTRUCTION AND THROUGH SUSPENDED CEILINGS SHALL BE FABRICATED FROM 22 U.S. GAUGE GALVANIZED STEEL, FLOOR SLEEVES SHALL EXTEND THREE INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. SPACE BETWEEN FLOOR SLEEVES AND PASSING CONDUIT SHALL BE FILLED WITH DUCT SEAL PACKING AND CAULKED WITH WATERPROOF COMPOUND AS APPROVED. WHERE CONDUITS PASS THROUGH WATERPROOFED FLOORS OR WALLS, SLEEVES SHALL BE FABRICATED SUCH THAT WATERPROOFING CAN BE FLASHED ONTO AND AROUND THE SLEEVE.

- A. GENERAL: ALL POWER AND LIGHTING CIRCUITS SHALL BE RUN IN METALLIC RACEWAYS EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. THESE RACEWAYS SHALL BE RUN CONCEALED IN ALL FINISHED AREAS, AND WHERE RUN EXPOSED SHALL BE SQUARE TO THE BUILDING AND HELD TIGHT TO THE BUILDING CONSTRUCTION. LOW VOLTAGE, TELEPHONE, INTERCOM, MUSIC, ALARM AND * SECURITY WRING RUN ABOVE ACCESSIBLE CEILINGS SHALL BE RUN USING INSULATED CABLE. METALLIC CONDUIT FOR THESE SYSTEMS SHALL BE PROVIDED ONLY WHERE RUN INSIDE WALLS. THE DRAWINGS INDICATE THE REQUIRED SIZE OF ALL RACEWAYS (EXCEPT AS HEREINAFTER SPECIFIED), THE POINTS OF TERMINATION AND THE SUGGESTED ROUTING. HOWEVER. THE INSTALLER IS RESPONSIBLE FOR PROPER COORDINATION WITH BUILDING STRUCTURE AND THE WORK OF OTHER TRADES, FURNISH ALL REQUIRED BENDS, FLBOWS, FITTINGS, JUNCTION AND PULL BOXES, WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. THAT MAY BE REQUIRED TO SATISFY CODES AND THE STANDARDS OF GOOD PRACTICE. WHERE CONDUITS FOR BOTH BRANCH AND FEEDER CIRCUITS ARE RUN CONCEALED. THEY MAY BE RUN OUT OF SQUARE TO THE BUILDING PROVIDING THE SHORTEST POSSIBLE RUN IS UTILIZED. RACEWAY SIZES ARE BASED ON THE USE OF COPPER CONDUCTORS AND
- B. USAGE: CONDUIT, WHERE INDICATED, SHALL BE CONSTRUED AS ELECTRICAL RACEWAYS AND SHALL CONFORM TO THE FOLLOWING: CONCEALED IN HUNG CEILINGS AND INTERIOR PARTITIONS - EMT WITH SET SCREW TYPE FITTINGS. UNDERGROUND OR BELOW INTERIOR SLABS - GRS. (NOTE: PVC CONDUIT IS PERMITTED OUTSIDE FOR PARKING AREA LIGHTING, SIGNS, ETC. ELBOWS SHALL
- C. EXPOSED ON BUILDING EXTERIOR GRS
- D. CONDUIT BENDS SHALL BE MADE TO THE LARGEST POSSIBLE RADIUS FOR EASE IN PULLING CONDUCTORS AND TO PROVIDE A NEATLY INSTALLED APPEARANCE. EQUIPMENT AND CONDITIONS PERMITTING, POWER CONDUIT BENDS SHALL CONFORM TO THE FOLLOWING:
- 1. 1–1/2 IN. 18 IN. RADIUS 24 IN. RADIUS 2-1/2 IN. 24 IN. RADIUS
- E. GRS CONDUIT SHALL BE CUT WITH POWER OR HACKSAW AND CLEANLY REAMED TO REMOVE ALL "BURRS" AND ALL FIELD CUT THREADS SHALL BE PAINTED WITH WHITE LEAD BEFORE COUPLINGS ARE APPLIED. EMPTY CONDUIT SYSTEMS INSTALLED FOR COMMUNICATION SYSTEMS, PUBLIC TELEPHONES, AND OTHER SYSTEMS AS INDICATED ON DRAWINGS SHALL BE INSTALLED COMPLETE WITH NYLON PULL
- WIRES PROPERLY TAGGED AT BOTH ENDS FOR IDENTIFICATION. WHERE BUILDING VENTILATION CONDITIONS ARE SUCH THAT AIR MAY FLOW CONTINUOUSLY IN CONDUITS. CAUSING CONDENSATION AND THE COLLECTION OF MOISTURE, THE CONDUITS SHALL BE SEALED AT EACH END WITH A PLIABLE X DUCT SEALING COMPOUND. ALSO SEAL ALL CONDUIT ENTERING AND LEAVING REFRIGERATED FOUIPMENT.
- H. ALL CONNECTIONS TO MOTORS, SOLENOID VALVES, PRESSURE SWITCHES, LIMIT SWITCHES, AND SIMILAR APPARATUS SHALL BE FLEXIBLE CONDUIT WHERE PERMITTED. WHERE EQUIPMENT IS INSTALLED OUTDOORS OR EXPOSED TO MOISTURE, USE LIQUIDTIGHT FLEXIBLE CONDUIT WITH WATERTIGHT FITTINGS.

3.03 EQUIPMENT LEVELING, HANGERS AND SUPPORTS

- A. GENERAL- SET EACH PIECE INSTALLED UNDER THIS DIVISION TRUE AND LEVEL.
- B. HANGERS AND SUPPORTS ADEQUATELY SUPPORT ALL RACEWAYS FROM THE STRUCTURE USING SCREW CLAMPS TO SECURE TO SAME. ARRANGE SUPPORTS TO PREVENT MOISTURE COLLECTION AND ALLOW ENTRANCE TO BOXES WITHOUT BENDS. INSTALL MULTIPLE CONDUITS USING CHANNEL TRAPEZE SUPPORTS TO STRUCTURE ABOVE. USE APPROVED SPACERS TO PREVENT CONTINUOUS CONTACT WITH BUILDING. SIZE. CLAMPS. INSERTS. CHANNELS ANI ALL OTHER MEMBERS TO SUPPORT A LOAD EQUAL TO 200% OF THE COMBINED WEIGHT OF ALL SUPPORTED MATERIAL PLUS THE WEIGHT OF A MAN.
- WHERE SEVERAL RACEWAYS ARE SUPPORTED ON A COMMON TRAPEZE HANGER, SUPPORTS SHALL BE SPACED TO ACCOMMODATE THE SMALLEST SIZE RACEWAY INVOLVED. SPACE HANGERS

6'-0" ON CENTERS

- 1/2 AND 3/4 IN. SIZE 6'-0" ON CENTERS
- i´and 1–1/4 in. size 9'–0" on centers 2. ELECTRIC METALLIC TUBING: 1/2 AND 3/4 IN. SIZE

1 AND 1-1/4 IN SIZE

ATTACHMENTS: SECURELY ATTACH HANGERS AND SUPPORTS TO CONSTRUCTION BY METHODS RECOMMENDED IN THE "NECA STANDARDS OF INSTALLATION" MANUAL COORDINATION WITH MECHANICAL TRADES: THE INTENT OF THE ABOVE CEILING SUPPORTS IS TO COMBINE AS MANY PIPES, CONDUITS, ETC., AS IS POSSIBLE WITHIN SAFE STRUCTURAL LIMITS, ON EACH HORIZONTAL SECTION OF A TRAPEZE HANGER. PRIOR TO SELECTING THE HORIZONTAL MEMBER, ALL TRADES, MECHANICAL AND ELECTRICAL, SHALL COORDINATE ACTUAL NUMBER OF PIPES, CONDUITS, ETC., SUCH THAT FINAL SELECTION RESULTS IN A NEATLY GROUPED, DISCIPLINED AND ACCESSIBLE

INSTALLATION. 3.04 WIRING INSTALLATION

- A. GENERAL: EXCEPT FOR SUCH ITEMS AS ARE NORMALLY WIRED AT THEIR POINT OF MANUFACTURE AND SO DELIVERED - AND UNLESS SPECIFICALLY NOTED TO THE CONTRARY HEREIN - THE ELECTRICAL TRADE SHALL DO ALL ELECTRICAL WIRING OF EVERY CHARACTER. IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS THAT ALL SYSTEMS AND EQUIPMENT SHALL BE PROVIDED WITH ALL NECESSARY UTILITY CONNECTIONS. COMPLETED TO ALLOW SAFE AND PROPER OPERATION OF SAID SYSTEMS, WHEN IT IS NECESSARY FOR TRADES PERFORMING WORK COVERED BY THIS DIVISION TO MAKE FINAL CONNECTIONS TO ITEMS OF EQUIPMENT BEING FURNISHED BY OTHERS, OR BY OTHER TRADES UNDER OTHER DIVISIONS, ALL SUCH WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS DIVISION AND ALL MATERIALS USED SHALL BE AS SPECIFIED
- WIRE SIZE: MINIMUM WIRE SIZE FOR BRANCH CIRCUITS SHALL BE #12 AWG. EXCEPT THAT HOMERUNS LONGER THAN 100 FT. LENGTH FROM THE PANEL TO THE CIRCUIT'S ELECTRICAL LOAD CENTER SHALL BE #10 AWG MINIMUM. WHERE MORE THAN THREE CURRENT CARRYING CONDUCTORS ARE FINCLOSED IN THE SAME RACEWAY. CONDUCTORS ARE TO BE DERATED PER N.E. CODE AND WIRE SIZE INCREASED AS REQUIRED. WHERE THE INCREASED CONDUCTOR SIZE REQUIRES, INCREASE THE RACEWAY SIZE AS WELL, FOR CONTROL WIRING, USE #14 AWG MINIMUM. FOR FIXTURE WIRING. AS PERMITTED BY N.E. CODE. USE #18 AWG MINIMUM. FOR SIGNAL AND COMMUNICATIONS SYSTEMS USE WIRE SIZE AS SPECIFICALLY REQUIRED BY THE SYSTEM SUPPLIER.
- MAKE CONNECTIONS TO TERMINALS USING PRESSURE TYPE CONNECTORS. SOLDERED JOINTS ARE PROHIBITED, ALL JOINTS IN CONDUCTORS SHALL BE MADE AT AN ACCESSIBLE LOCATION WITHIN A BOX BY TWISTING THE BARE CONDUCTOR FNDS TOGETHER AND APPLYING A WIRE CONNECTOR IN ALL SIZES UP TO THE MAXIMUM CAPACITY OF THE CONNECTOR, JOINTS SHALL BE TAPED WITH AN APPROVED ELECTRICAL TAPE. SPLICES FOR CONDUCTORS LARGER THAN #10 AWG SHALL BE MADE WITH AN APPROVED COMPRESSION (SQUFEZE) CONNECTOR INSULATED WITH NOT LESS THAN TWO LAYERS OF ELECTRICAL FILL TAPE TO 1.5 TIMES THE THICKNESS OF INSULATION, FOLLOWED BY TWO (MINIMUM) LAYERS OF HALF-LAPPED ELECTRICAL TAPE FOR MECHANICAL PROTECTION. LOCATE ALL SPLICES IN BOXES OR FITTINGS OF PROPER SIZE PER N.E. CODE.
- D. IDENTIFY ALL WIRES AND CARLES WITH BRADY ADHESIVE WIRE MARKERS AT EACH BOX. PANEL AND OUTLET. IDENTIFICATION SHALL, AS A MINIMUM, INDICATE THE PANEL AND CIRCUIT SUPPLYING THE OUTLET. AT THE PANEL END. THE LOAD SERVED AND ITS LOCATION SHALL BE INDICATED. PROVIDE A MINIMUM OF 8 IN. SLACK WIRE AT EACH OUTLET FOR MAKING CONNECTION TO THE DEVICE OR TO PROVIDE FOR A FUTURE DEVICE IN THE BOX.

- A. EACH BOX SHALL BE OF PROPER SIZE TO ACCOMMODATE THE DEVICE AND FUNCTION FOR WHICH IT IS SHOWN. BOXES FOR WALL DEVICES SHALL BE FURNISHED COMPLETE WITH PLASTER RING OR TILE RING ACCORDING TO WALL CONSTRUCTION WHERE REQUIRED, BOXES FOR INSTALLATION IN MASONR'S WALLS SHALL BE SPECIAL SQUARE CORNER MASONRY TYPE. BOXES FOR MOUNTING OF LIGHTING FIXTURES SHALL BE FOUR INCH OCTAGON, EQUIPPED WITH 3/8 IN. "NO-BOLT" FIXTURE STUD. BOXES FOR FLOOR OUTLETS SHALL BE CONCRETE PROOF STEEL BOXES WITH ADJUSTABLE TOPS AND DEVICES AS HEREINAFTER NOTED OR SHOWN. ALL BOXES SHALL BE FURNISHED COMPLETE WITH PROPER COVER AND/OR DEVICE PLATE AND DEVICE. UNLESS OTHERWISE NOTED, PLACE OUTLET BOXES AT THE FOLLOWING HEIGHTS (BOX CENTER TO FINISH FLOOR):
- WALL SWITCHES 48" THERMOSTATS 96
- CONVENIENCE OUTLETS 18" B. TELEPHONE, ALARM, AND SIGNAL SYSTEM OUTLET BOXES SHALL BE STANDARD OUTLET BOX TYPE WHERE ONLY ONE CONDUIT ENTERS SAME. UNLESS OTHERWISE SPECIFIED OR INDICATED ON MINIMUM WITH SUITABLE ADAPTER RING.
- C. LOCATE ALL OUTLETS AS INDICATED ON DRAWINGS, HOWEVER, AT INSTALLATION INSPECT ARCHITECTURAL DRAWINGS AND LOCATE LOCAL SWITCHES ON THE STRIKE SIDE OF THE DOOR.
- A. GENERAL: EQUIPMENT, RACEWAY SYSTEMS, WIRING SYSTEM NEUTRALS, RECEPTACLES AND POWER OUTLETS, MOTORS AND MOTORIZED EQUIPMENT, SHALL BE GROUNDED IN ACCORDANCE WITH N.E.
- B. GROUND RECEPTACLES AND POWER OUTLETS TO THE CONDUIT SYSTEM WITH A GREEN GROUNDING CONDUCTOR SIZE IN ACCORDANCE WITH N.E. CODE TABLE 250-95 AND CONNECTED BETWEEN THE DEVICE GROUNDING SCREW AND THE OUTLET BOX. CONNECTION TO THE BOX MAY BE A "G" CLIP OR BY A 10/24 SCREW THREADED INTO A HOLE IN THE BACK OF THE BOX AND USED FOR NO OTHER PURPOSE, EQUIPMENT CONNECTED TO THE ELECTRICAL SYSTEM SHALL BE GROUNDED WITHIN INSULATED GREEN GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH N.E. CODE TABLE 250-95 AND INSTALLED WITHIN THE RACEWAY. CONDUCTOR SHALL BE CONTINUOUS BETWEEN A GROUNDING SCREW IN THE EQUIPMENT JUNCTION B BOX AND A GROUND ATTACHMENT IN THE NEAREST OUTLET BOX IN THE RIGID METALLIC CONDUIT SYSTEM. THIS REQUIREMENT INCLUDES ALL
- GENERALLY FOR TELEPHONE AND SUPPLEMENTAL COMMUNICATION SYSTEMS A #6 AWG CONDUCTOR TO EACH PROTECTOR CABINET, OTHER CABINET, OR DEVICE INSTALLATION SHALL BE CONSIDERED SUFFICIENT. FROM THE SERVICE GROUND (UNLESS INDICATED OTHERWISE). D. GROUNDING MATERIAL:
- GROUND-RODS 3/4" DIA., 8' LONG MINIMUM, COPPERWELD GROUND CONDUCTOR - SIZE AS PER NEC REQUIREMENTS, SOFT DRAWN OR SOFT ANNEALED,
- JOINTS AND CONNECTIONS MOLDED FUSION WELDING PROCESS USING PROPER MOLD AND THE NUMBER, SIZE AND TYPE CARTRIDGE FOR THE JOINT OR CONNECTION. WATERPIPE CONNECTION, SILICON BRONZE APPROVED MECHANICAL CONNECTOR DESIGNED FOR THE

3.07 PANELBOARD INSTALLATION

PIPE AND CABLE TO BE BONDED.

FLEXIBLE CONDUIT.

- MOUNT PANELBOARDS WITH CENTERLINE AT 5 FT.-6IN, ABOVE FINISH FLOOR, EXCEPT THAT THE HIGHEST BREAKER HANDLE SHALL BE BELOW 6 FT.-5 IN. ABOVE FINISH FLOOR, ARRANGE
- BREAKERS SO THAT THE BREAKER RATING IS VISIBLE WITH THE PANEL FRONT IN PLACE. B. PANEL DIRECTORIES, AS A MINIMUM, SHALL BE TYPEWRITTEN AND INDICATE BREAKER POSITION NUMBER AND FOUIPMENT SERVED. THE PANEL IDENTIFICATION SHALL BE LOCATED ON THE PANEL TRIM AND SHALL CONSIST OF A BLACK LAMINATED PHENOLIC LABEL, SCREW MOUNTED, WITH THE PANEL IDENTIFICATION MATCHING PANEL IDENTIFICATION ON DRAWINGS. LABEL ALL CONDUCTORS WITH ADHESIVE WRAP LABELS WITHIN 2 IN. OF THE CONDUCTOR TERMINATION PRIOR TO INSTALLATION OF TRIM.

3.08 LIGHTING FIXTURE INSTALLATION

- PROVIDE A LIGHTING FIXTURE FOR EACH AND EVERY OUTLET IN ACCORDANCE WITH TYPE DESIGNATION AND FIXTURE SCHEDULE ON THE DRAWINGS. VERIFY THE ARCHITECTURAL FINISHES AND CEILING CONSTRUCTION AND — REGARDLESS OF THE CATALOG NUMBER PREFIXES AND SUFFIXES SHOWN - PROVIDE FIXTURES WITH THE PROPER TRIM, FRAMES, SUPPORTS, AND HANGER AND OTHER MISCELLANEOUS APPURTENANCES TO PROPERLY COORDINATE WITH SAID FINISHES. REINFORCE CEILING CONSTRUCTION AS REQUIRED TO PROPERLY SUPPORT THE WEIGHT OF FIXTURES INSTALLED
- IMMEDIATELY PRIOR TO FINAL INSPECTION: THOROUGHLY CLEAN ALL FIXTURES INSIDE AND OUT, INCLUDING PLASTICS AND GLASSWARE. ADJUST TRIM TO FIT ADJACENT SURFACES. REPLACE BROKEN OR DAMAGED PARTS. INSTALL NEW LAMPS. ELECTRICALLY AND MECHANICALLY TEST THE SYSTEM FOR
- C. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM LOCAL CODE AUTHORITIES AND MAKING ANY REVISIONS DIRECTED BY THEM ON EMERGENCY AND EXIT LIGHTING.

EQUIPMENT FURNISHED WITH FACTORY FINISHES THAT IS DAMAGED DURING DELIVERY OR

EQUIPMENT TO PREVENT MARRING AND OTHER DEFACING.

THOROUGHLY CLEAN ALL FIXTURES, SWITCHES, OTHER DEVICES, PANELBOARDS, AND EQUIPMENT

PROVIDED OR CONNECTED IN THIS CONTRACT. ALL SURFACES SHALL BE PROPERLY POLISHED AND

SHALL BE FREE OF PAINT AND ALL OTHER DIRT OR DEBRIS. TOUCHUP OR COMPLETELY REFINISH ALL

CONSTRUCTION. PROPERLY PROTECT THE FRONTS OF ALL PANELBOARDS, SWITCHBOARDS AND SIMILAR

CAUSED BY THE WORK OF THE TRADESMEN DOING ELECTRICAL WORK. AT COMPLETION OF THE WORK, REMOVE ALL RUBBISH, TOOLS, EQUIPMENT, AND SURPLUS MATERIALS. BROOM CLEAN ALL ASSIGNED SPACES PRIOR TO LEAVING THE PREMISES. 3.10 TESTING AND LOAD BALANCING

B. AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH

- A. TEST ALL-CIRCUITS TO ASSURE THEM TO BE FREE OF GROUNDS AND SHORTS. LIGHT AND TEST EACH LAMP, PROVE AND TEST THE AVAILABLE VOLTAGE ON THE LOAD SIDE OF EACH DISCONNECT, VERIFY PROPER OPERATION OF THE DISCONNECT. VERIFY THE PHASE SEQUENCE, VOLTAGE, AND ROTATION AT EACH MOTOR IN THE PRESENCE OF THE INSTALLER. RUN EACH MOTOR WITH ITS CONTROL AS NEARLY AS POSSIBLE UNDER OPERATING CONDITIONS FOR A SUFFICIENT LENGTH OVER TIME TO DEMONSTRATE CORRECT ALIGNMENT, WIRING CAPACITY, SPEED, AND OVERALL SATISFACTORY OPERATION. CHECK THAT THE PROPER OVERLOAD HEATERS HAVE BEEN INSTALLED BY READING THE MOTOR NAMEPLATE, THE OVERLOAD HEATER TABLE, AND THE HEATER CODE. ADJUST THE SIZE OF THE OVERLOAD HEATER AS REQUIRED TO MATCH THE MOTOR NAMEPLATE. OPERATE ALL MAIN AND FEEDER SWITCHES AND
- B. THE VARIOUS BRANCH CIRCUITS SERVED FROM THE LIGHTING PANELBOARDS VARY IN LOADING. CAREFULLY BALANCE THE ACTUAL OPERATING LOAD ON EACH PANELBOARD WHEN ALL LOAD IS TURNED ON AND THE SYSTEM IS OPERATING AT 100% DEMAND, THE UNBALANCE SHALL NOT EXCEED 10%. DURING FINAL INSPECTION. FURNISH THE TEST INSTRUMENTS AND QUALIFIED PERSONNEL TO PERFORM COMPLETE TESTING. COSTS OF ALL TESTING. INCLUDING THE INCIDENT COSTS FOR RETESTING OCCASIONED BY DEFECTS AND FAILURES OF THE EQUIPMENT TO MEET THE SPECIFICATIONS, SHALL BE BORNE BY THE CONTRACTOR.
- FURNISH AT THE COMPLETION OF THE PROJECT A FINAL INSPECTION CERTIFICATE FROM THE LOCAL

INSPECTING AUTHORITY. END OF SECTION

SECTION 16740 TELEPHONE CONDUIT SYSTEMS

PART 1 — GENERAL

A. FURNISH AND INSTALL A SYSTEM OF PROPERLY SIZED AND PROPERLY LOCATED OUTLETS WITH ASSOCIATED CONNECTING CONDUIT RUNS, EXTENDING TO PULL BOXES AND TELEPHONE BACKBOARD. FURNISH AND INSTALL RACEWAYS, FOR INCOMING SERVICE WHERE INDICATED.

PART 2 - PRODUCTS

1.01 DESCRIPTION

- 2.01 OUTLET BOXES A. UNLESS OTHERWISE INDICATED, ALL TELEPHONE OUTLETS AND JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO ACCOMMODATE INTERNAL TERMINAL STRIPS BY TELEPHONE CO.
- TELEPHONE OUTLET COVER PLATES SHALL MATCH THOSE SPECIFIED FOR ADJACENT WIRING DEVICES, INCLUDING THOSE WITH SPECIAL FINISHES.

2.02 OUTLET COVER PLATES

PART 3 - EXECUTION

MATERIALS FOR TELEPHONE RACEWAY SYSTEM WORK SHALL BE IN ACCORDANCE WITH

CORRESPONDING RACEWAYS SPECIFIED HEREIN AND IN OTHER SECTIONS.

VERIFY LOCATION OF WALL OUTLETS BEFORE ROUGHING IN TO INSURE COORDINATION WITH OWNER'S FINAL INTENDED FURNITURE LAYOUT. PLAN INDICATIONS SHALL NOT BE SCALED UNLESS DIRECTED. OUTLETS SHALL BE RELOCATED WITHIN ROOMS BEFORE ROUGH-IN WHERE DIRECTED BY ARCHITECT-ENGINEER WITHOUT ADDITIONAL COST TO OWNER

TELEPHONE SERVICE CONDUIT LAYOUT SHALL HAVE THE JOB SITE APPROVAL OF AN AUTHORIZED

REPRESENTATIVE OF THE TELEPHONE CO. COORDINATE WORK SO THAT BOTH TELEPHONE CO. AND OWNER'S REPRESENTATIVES ARE PRESENT AT THE SAME TIME FOR APPROVAL OR CHANGES IN AMPLE TIME FOR ANY REQUIRED CORRECTIONS BEFORE COMPLETION OF PROJECT. FROM EACH TELEPHONE OUTLET, PROVIDE 3/4" EMT CONDUIT CONCEALED IN WALL TO 6" ABOVE

ACCESSIBLE CEILING, UNLESS SHOWN OTHERWISE ON DRAWINGS. 3.02 TELEPHONE TERMINAL BOARD

- PRIOR TO INSTALLATION OF TELEPHONE TERMINAL BOARD, THE EXACT LOCATION SHALL BE VERIFIED WITH THE TELEPHONE CO. THE TELEPHONE TERMINAL BOARD SHALL BE PROVIDED WITH TWO DUPLEX
- RECEPTACLE LOCATED WHERE INDICATED ON THE DRAWINGS. THE TERMINAL BOARD SHALL BE CONSTRUCTED OF 3/4" PLYWOOD WITH TWO COATS OF FLAME

RETARDANT PAINT END OF SECTION

1.01 DESCRIPTION

SECTION 16790

OWNER FURNISHED SYSTEMS PART 1 — GENERAL

REFER TO SCHEDULE IN ARCHITECTURAL SECTION FOR INSTALLATION RRESPONSIBILITY ON OWNER FURNISHED EQUIPMENT. FOR CONTRACTOR INSTALLED ITEMS, INSTALL ACCORDING TO MANUFACTURER RECOMMENDATIONS.

END OF SECTION

02917 T: 401-232-5010 F: 401-232-5080

OWNERSHIP AND USE OF DOCUMENTS, DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT THESE DOCUMENTS ARE NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES THAN THOSE PROPERLY AUTHORIZED BY CONTRACT WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE ARCHITECT.

DISCLAIMER

AHARONIAN

& ASSOCIATES, INC.

ARCHITECTS

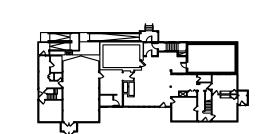
310 George Washington Highway

Suite 100

Smithfield, Rhode Island

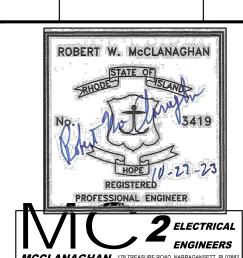
WWW.ARCH-ENG.COM





KEYPLAN (N REVISIONS

NUMBER REMARKS DATE



ASSOCIATES. INC.

FOR CONSTRUCTION



TOWN HALL ADDITION /RENOVATIONS

195 DANIELSON PIKE

SCITUATE, RI 02857 Providence County

DRAWING TITLE

ELECTRICAL SPECIFICATIONS

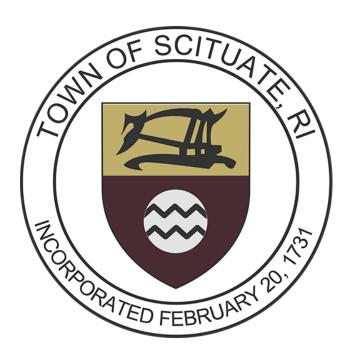
OCT 27, 2023 CHECKED BY RMM DRAWING NUMBER

PROJ NO

PROJECT MANUAL

Issued For Construction

October 2023



Scituate Town Hall Renovations 195 Danielson Pike Scituate, RI 02857



AHARONIAN & ASSOCIATES, INC. - ARCHITECTS

310 George Washington Highway - Suite 100 - Smithfield, Rhode Island 02917

T 401-232-5010 F 401-232-5080

Consultants:

Civil Engineer: Mechanical, Plumbing, Fire Protection

Crossman Engineering R.K. Baker & Assoc.

Structural Engineer Electrical Engineer:
DWD Engineering, Inc. McClanaghan & Assoc.



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SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

AA# 22173

DOCUMENT 00 21 13 INSTRUCTIONS TO BIDDERS

AIA DOCUMENT A701 - Latest Edition INSTRUCTION TO BIDDERS

Document not bound herewith. The Contractor and Subcontractors may review the Document at the Office of the Architect. The document is also available, for purchase, from the American Institute of Architects website. www.aiacontracts.org

Failure to review this document will not relieve parties of the contractual requirements contained herein.

END OF DOCUMENT 00 21 13



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SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

AA# 22173

SECTION 00 22 13 SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

SUPPLEMENTS

The following supplements modify, change, delete from or add to AIA Document A701, Latest Edition. Where any Article of the Instructions to Bidders is modified or any Paragraph, Subparagraph or Clause thereof is modified or deleted by these supplements, the unaltered provision of that Article, Paragraph, Subparagraph or Clause shall remain in effect.

ARTICLE 2 - BIDDER'S REPRESENTATIONS

Delete subparagraph 2.1.4 in its entirety and substitute the following:

"2.1.4 The Bidder has inspected the site, has familiarized him/herself with the actual conditions under which the Work is to be performed, has correlated the Bidder's personal observations with the requirements of the Contract Documents and has full knowledge of the work required;"

Add the following subparagraph:

"2.1.7 After award of Contract, no claim for additional compensation resulting from misunderstanding of the Contract Documents or resulting from errors in or conflicts within the Contract Documents will be entertained unless interpretations of the Contract Documents specifically relating to the portions thereof, which appear to the Bidder to be in question, error or conflict, are brought to the Owner's attention during the Bidding Period."

ARTICLE 3 - BIDDING DOCUMENTS

Add the following at the end of subparagraph 3.2.2

"Request for clarification and interpretation may be submitted either as paper copy by mail or electronic copy by email"

Add subparagraph 3.2.4:

"3.2.4 No interpretation of the meaning of the Contract Documents will be made to any Bidder orally. Neither the Owner or Architect will be responsible for any oral instructions."

Add subparagraph 3.2.5:

"3.2.5 Failure of any Bidder to receive any such addendum shall not relieve such bidder from any obligation under this bid as submitted."

Add subparagraph 3.3.6:

"3.3.6 Refer to Division 1 specification sections for additional provisions of this document,"

ARTICLE 4 - BIDDING PROCEDURES

Scituate Town Hall Renovations

Delete subparagraph 4.2.1 in its entirety and substitute the following:

"4.2.1 Each bid shall be accompanied by a bid security in the form and amount required [Five Percent (5%)] as stipulated in the Advertisement For Bids}

Delete subparagraph 4.2.2. in its entirety and substitute the followings:

"4.2.2. The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and will, if required, furnish bonds covering the faithful performance of the Contract and Payment of all obligations arising thereunder. In addition, the Owner shall have any other legal remedies that it is entitled, including but not limited to, any excess of the bid security in relation to the next lowest and qualified bidder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds as required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty."

Subparagraph 4.2.4 in the last sentence after the word "beginning" insert sixty(60)"

Delete subparagraph 4.3.1 in its entirety and substitute the followings:

" 4.3.1 A bidder shall submit its bid as indicated within the Invitation to Bid".

ARTICLE 5 - CONSIDERATION OF BIDS

At the end of paragraph 5.1 add the following:

"No award will be made on the date of Bid Opening."

Add subparagraph 5.2.1:

5.2.1 The Owner may reject any bid not prepared and submitted in accordance with the provisions hereof and may waive any informalities or reject any and all bids. Conditional bids will not be accepted."

Subparagraph 5.3.1 Delete the word "lowest" and insert "most" in its place in the first sentence.

Subparagraph 5.3.1 in the first sentence after the word "Bidder" insert "in the opinion of Owner."

Add subparagraph 5.3.1.1:

"5.3.1.1 The Owner does not obligate him/herself to accept the lowest or any other bid."

Add subparagraph 5.3.1.2:

"5.3.1.2 If the Base Bid exceeds the amount of funds available to finance the construction Contract, the Owner may reject all Bids or may award the Contract to that responsible Bidder submitting the lowest Bid."

Add subparagraph 5.3.1.3:

"5.3.1.3 Notice of Owner's Method of Award:

- 1. The Owner will use several factors in determining the method of award to the "Responsive Bidder" as follows:
 - a. Lowest responsible Lump Sum
 - b. Contractor's qualifications with respect to projects of similar scope.
 - c. Timely completion"

ARTICLE 6 – POST-BID INFORMATION

Refer to Paragraph 6.1 Contractor's attention is called to submission of a Contractor's Qualification Statement. Such statement shall illustrate Contractor's previous experience.

Contractor's Qualification Statement shall be submitted with his/her proposal.

Delete subparagraph 6.2 in its entirety.

ARTICLE 7 - PERFORMANCE BOND AND PAYMENT BOND

Delete subparagraph 7.1.1 in its entirety and substitute the following:

"7.1.1 The Bidder shall furnish a Performance Bond in the amount of one hundred percent (100%) of the contract amount and a Labor and Material Bond in the amount of one hundred percent (100%) of the contract amount as security for faithful performance of this Contract and for the payment of persons performing labor on the project under contract.

Delete subparagraph 7.1.2 in its entirety and substitute the following:

"7.1.2 The cost of such bonds shall be included in the Bid."

Delete subparagraph 7.1.3 in its entirety and substitute the following:

"7.1.3 The surety on such bonds shall be a duly authorized surety company satisfactory to the Owner and authorized to do business in the State of Rhode Island."

Delete subparagraph 7.1.4 in its entirety.

Subparagraph 7.2.1 Delete the first sentence in its entirety and substitute the following:

"Simultaneously with his/her delivery of the executed contract, the Contractor shall deliver the required bonds to the Owner."

ARTICLE 8 – EMUMLERATION OF THE PROPOSED CONTRACT DOCUMENTS

Delete paragraph 8.1 and all subparagraphs & replace with the following:

"8.1 Copies of the proposed Contract Documents have been made available to the Bidder and consists of the Documents set forth in the Solicitation and Article 9 of AIA Document A101-2017."

ARTICLE 9 - SUPPLEMENTARY INSTRUCTIONS

Add the following paragraphs:

"9.1 CONDITIONS OF WORK"

"9.1.1 Each bidder must inform him/herself of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his/her obligation to furnish all material and labor necessary to carry out the provisions of his/her contract. Insofar as possible, the Contractor, in carrying out his/her work, must employ such methods or means as will not cause any interruption with the work of any other Contractor."

"9.2 LAWS AND REGULATIONS"

"9.2.1 The bidder's attention is directed to the fact that all applicable State Laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full."

"9.3 LIEN RIGHTS"

"9.3.1 The project is municipal property owned by the Town of Scituate, Rhode Island and is thus exempt from liens."

"9.4 STATE SALES AND USE TAX EXEMPTION"

"9.4.1 Bidders and their subcontractors and material suppliers shall not include in their Bids any Rhode Island State Sales and Use Taxes relative to the performance of the Work that is covered by the exemption. The Owner will furnish tax exempt numbers required."

END OF DOCUMENT 00 22 13



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SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

AA# 22173

DOCUMENT 00 43 13 BID SECURITY FORM

AIA DOCUMENT A310 – Latest Edition BID BOND

Document not bound herewith. Contractors and Subcontractors may review the document at the Office of the Architect. The document is also available, for purchase, from the American Institute of Architects website. www.aiacontracts.org

Failure to review this document will not relieve parties of the contractual requirements contained herein.

END OF DOCUMENT 00 43 13

BID SECURITY FORM 00 43 13-1



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SCITUATE TOWN HALL

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DOCUMENT 00 45 10 CONTRACTOR'S QUALIFICATION STATEMENT

AIA DOCUMENT A305 - Latest Edition CONTRACTOR'S QUALIFICATION STATEMENT

Document not bound herewith. The Contractor and Subcontractors may review the Document at the Office of the Architect. The document is also available, for purchase, from the American Institute of Architects website. www.aiacontracts.org

Failure to review this document will not relieve the parties of the contractual requirements contained herein.

END OF DOCUMENT 00 45 10



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SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

AA# 22173

DOCUMENT 00 52 00 AGREEMENT FORM

AIA DOCUMENT A101 - Latest Edition STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR WHERE THE BASIS OF PAYMENT IS A STIPULATED SUM

A copy of this Document, as amended, is bound herewith following this page. Agreement made as of the date of issue of the Purchase Order for this work, and is assumed as executed once the Purchase Order is issued.

Failure to review this document will not relieve parties of the contractual requirements contained herein.

END OF DOCUMENT 00 52 00

AGREEMENT FORM 00 52 00-1

Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the day of in the year (In words, indicate day, month and year.)

BETWEEN the Owner:

(Name, legal status, address and other information)

and the Contractor:

(Name, legal status, address and other information)

for the following Project: (Name, location and detailed description)

The Architect:

(Name, legal status, address and other information)

The Owner and Contractor agree as follows.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties should complete A101™–2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201™–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

TABLE OF ARTICLES

- 1 THE CONTRACT DOCUMENTS
- 2 THE WORK OF THIS CONTRACT
- 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
- 4 CONTRACT SUM
- 5 PAYMENTS
- 6 DISPUTE RESOLUTION
- 7 TERMINATION OR SUSPENSION
- 8 MISCELLANEOUS PROVISIONS
- 9 ENUMERATION OF CONTRACT DOCUMENTS
- 10 INSURANCE AND BONDS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be:

(Check one of the following boxes.)

]]	The date of this Agreement.
[]	A date set forth in a notice to proceed issued by the Owner.
[]	Established as follows: (Insert a date or a means to determine the date of commencement of the Work.)

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of this Agreement.

§ 3.2 The Contract Time shall be measured from the date of commencement of the Work.

§ 3.3 Substantial Completion

§ 3.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work:

(Check one of the following boxes and complete the necessary information.)

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[] Not later than) calendar days from the date of commencement of	of the Work.
[] By the following	date:	
	The Contract Time as provided in the Contract Documential Completion of the entire Work, the Contractor state following dates:	
Portion of Work	Substantial Completion Date	
	·	
§ 3.3.3 If the Contractor fails to any, shall be assessed as set for	achieve Substantial Completion as provided in this South in Section 4.5.	ection 3.3, liquidated damages, if
ARTICLE 4 CONTRACT SUM § 4.1 The Owner shall pay the Contract. The Contract Sum shall Documents.	Contractor the Contract Sum in current funds for the Call be (\$), subject to additions and deductions as	
§ 4.2 Alternates § 4.2.1 Alternates, if any, include	ed in the Contract Sum:	
Item	Price	
execution of this Agreement. U	noted below, the following alternates may be accept pon acceptance, the Owner shall issue a Modification of the conditions that must be met for the Owner to accept the owner th	n to this Agreement.
Item	Price	Conditions for Acceptance
§ 4.3 Allowances, if any, includ (Identify each allowance.)	ed in the Contract Sum:	
ltem	Price	
§ 4.4 Unit prices, if any: (Identify the item and state the	unit price and quantity limitations, if any, to which th	he unit price will be applicable.)
Item	Units and Limitations	Price per Unit (\$0.00)
§ 4.5 Liquidated damages, if any (Insert terms and conditions for		
§ 4.6 Other: (Insert provisions for honus or	other incentives. if any, that might result in a change	e to the Contract Sum.)

ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

- § 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.
- § 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:
- § 5.1.3 Provided that an Application for Payment is received by the Architect not later than the day of a month, the Owner shall make payment of the amount certified to the Contractor not later than the day of the month. If an Application for Payment is received by the Architect after the application date fixed above, payment of the amount certified shall be made by the Owner not later than () days after the Architect receives the Application for Payment.

(Federal, state or local laws may require payment within a certain period of time.)

- § 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Architect may require. This schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.
- § 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.
- § 5.1.6 In accordance with AIA Document A201TM–2017, General Conditions of the Contract for Construction, and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:
- § 5.1.6.1 The amount of each progress payment shall first include:
 - .1 That portion of the Contract Sum properly allocable to completed Work;
 - .2 That portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction, or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing; and
 - .3 That portion of Construction Change Directives that the Architect determines, in the Architect's professional judgment, to be reasonably justified.
- § 5.1.6.2 The amount of each progress payment shall then be reduced by:
 - .1 The aggregate of any amounts previously paid by the Owner;
 - .2 The amount, if any, for Work that remains uncorrected and for which the Architect has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2017;
 - .3 Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, unless the Work has been performed by others the Contractor intends to pay;
 - For Work performed or defects discovered since the last payment application, any amount for which the Architect may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2017; and
 - .5 Retainage withheld pursuant to Section 5.1.7.

§ 5.1.7 Retainage

§ 5.1.7.1 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due:

(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

§ 5.1.7.1.1 The following items are not subject to retainage:

(Insert any items not subject to the withholding of retainage, such as general conditions, insurance, etc.)

§ 5.1.7.2 Reduction or limitation of retainage, if any, shall be as follows:

(If the retainage established in Section 5.1.7.1 is to be modified prior to Substantial Completion of the entire Work, including modifications for Substantial Completion of portions of the Work as provided in Section 3.3.2, insert provisions for such modifications.)

§ 5.1.7.3 Except as set forth in this Section 5.1.7.3, upon Substantial Completion of the Work, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 5.1.7. The Application for Payment submitted at Substantial Completion shall not include retainage as follows:

(Insert any other conditions for release of retainage upon Substantial Completion.)

- § 5.1.8 If final completion of the Work is materially delayed through no fault of the Contractor, the Owner shall pay the Contractor any additional amounts in accordance with Article 9 of AIA Document A201–2017.
- § 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 Final Payment

- § 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when
 - .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Article 12 of AIA Document A201–2017, and to satisfy other requirements, if any, which extend beyond final payment; and
 - .2 a final Certificate for Payment has been issued by the Architect.
- § 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

§ 5.3 Interest

Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located. (Insert rate of interest agreed upon, if any.)

%

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 Initial Decision Maker

The Architect will serve as the Initial Decision Maker pursuant to Article 15 of AIA Document A201–2017, unless the parties appoint below another individual, not a party to this Agreement, to serve as the Initial Decision Maker. (If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

Ş	6.2	Bind	ling	Dispute	Reso	lution
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For any Claim subject to, but not resolved by, mediation pursuant to Article 15 of AIA Document A201–2017	7, the
method of binding dispute resolution shall be as follows:	
(Check the appropriate box.)	

[]	Arbitration pursuant to Section 15.4 of AIA Document A201–2017
[]	Litigation in a court of competent jurisdiction
[1	Other (Specify)

If the Owner and Contractor do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201–2017.

§ 7.1.1 If the Contract is terminated for the Owner's convenience in accordance with Article 14 of AIA Document A201–2017, then the Owner shall pay the Contractor a termination fee as follows:

(Insert the amount of, or method for determining, the fee, if any, payable to the Contractor following a termination for the Owner's convenience.)

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2017.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201–2017 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 The Owner's representative:

(Name, address, email address, and other information)

§ 8.3 The Contractor's representative:

(Name, address, email address, and other information)

§ 8.4 Neither the Owner's nor the Contractor's representative shall be changed without ten days' prior notice to the other party.

§ 8.5 Insurance and Bonds

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth in AIA Document A101TM_2017, Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum, Exhibit A, Insurance and Bonds, and elsewhere in the Contract Documents.

§ 8.5.2 The Contractor shall provide bonds as set forth in AIA Document A101TM—2017 Exhibit A, and elsewhere in the Contract Documents.

§ 8.6 Notice in electronic format, pursuant to Article 1 of AIA Document A201–2017, may be given in accordance with AIA Document E203TM–2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:

(If other than in accordance with AIA Document E203–2013, insert requirements for delivering notice in electronic format such as name, title, and email address of the recipient and whether and how the system will be required to generate a read receipt for the transmission.)

§ 8.7 Other provisions:

(Paragraph deleted)

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

- .1 AIA Document A101TM–2017, Standard Form of Agreement Between Owner and Contractor
- .2 AIA Document A101TM 2017, General Conditions of the Contract for Construction

(1 ara	. 3	Drawings			
		Number	Title	Date	
	.4	Specifications			
		Section	Title	Date	Pages
	.5	Addenda, if any:			
		Number	Date	Pages	

Portions of Addenda relating to bidding or proposal requirements are not part of the Contract Documents unless the bidding or proposal requirements are also enumerated in this Article 9.

.6 Other Exhibits:

(Check all boxes that apply and include appropriate information identifying the exhibit where required.)

[] AIA Document E204TM_2017, Sustainable Projects Exhibit, dated as indicated below: (Insert the date of the E204-2017 incorporated into this Agreement.)

lnit.

User Notes:

(1095984720)

	Title	Date	Pages	
	[] Supplementory	and other Conditions of the Control	oot:	
		and other Conditions of the Contra		_
	Document	Title	Date	Pages
	Document A201 TM _2017 sample forms, the Contro requirements, and other proposals, are not part o	documents that are intended to for provides that the advertisement of actor's bid or proposal, portions of information furnished by the Own of the Contract Documents unless the dere only if intended to be part	r invitation to bid, Instr of Addenda relating to b er in anticipation of rec enumerated in this Agre	ructions to Bidders, idding or proposal ceiving bids or cement. Any such
				,
	ARTICLE 10 INSURANCE AND The Contractor shall purchase and Document A201-2007. (State bor Article 11 of AIA Document A20	maintain insurance and provide buding requirements, if any, and lim		icle 11 of AIA
	The Contractor shall purchase and Document A201-2007. (State bor	maintain insurance and provide hiding requirements, if any, and lim 1-2007.		icle 11 of AIA
	The Contractor shall purchase and Document A201-2007. (State bor Article 11 of AIA Document A20	maintain insurance and provide hiding requirements, if any, and lim 1-2007.		icle 11 of AIA
This .	The Contractor shall purchase and Document A201-2007. (State bor Article 11 of AIA Document A20	maintain insurance and provide be ding requirements, if any, and lim 1-2007. ay and year first written above.		icle 11 of AIA



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SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

AA# 22173

SECTION 00 61 13 PERFORMANCE AND PAYMENT BOND FORM

AIA DOCUMENT A312 – Latest Edition PERFORMANCE AND PAYMENT BOND

Document not bound herewith. Contractors and Subcontractors may review the document at the Office of the Architect. The document is also available, for purchase, from the American Institute of Architects website. www.aiacontracts.org

Failure to review this document will not relieve parties of the contractual requirements contained herein.

END OF DOCUMENT 00 61 13



SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

AA# 22173

SECTION 00 72 00 GENERAL CONDITIONS

AIA DOCUMENT A201 - 2017 Edition GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION

Document not bound herewith. Contractors and Subcontractors may review the document at the Office of the Architect. The document is also available, for purchase, from the American Institute of Architects website. www.aiacontracts.org

Failure to review this document will not relieve parties of the contractual requirements contained herein.

END OF DOCUMENT 00 72 00



SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

AA# 22173

DOCUMENT 00 73 00 SUPPLEMENTARY CONDITIONS

SUPPLEMENTS

- A. The following supplements modify the "General Conditions of the Contract for Construction", AIA Document A201-2017. Where a portion of the General Conditions is modified or deleted by these Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect.
- B. These Supplementary General Conditions are of the abbreviated or "stream-lined" type and include incomplete sentences. Omission of words or phrases such as "the Contractor shall", "in conformity therewith", "shall be", "as noted on the Drawings", "according to the plans", "a", "an", "the", and "all" are intentional. Omitted words and phrases shall be supplied by inference in the same manner as they are when a note occurs on the Drawings. Words "shall be" or "shall" will be supplied by inference when colon (:) is used within sentences or phrases.
- C. The Contractor shall provide all items, articles, materials, operations or methods listed, mentioned or scheduled on the Drawings and/or herein, including all labor, materials, equipment and incidentals necessary and required for their completion.

ARTICLE 2 - OWNER

2.1 GENERAL

2.1.1 Delete the first sentence in Paragraph 2.1.1 and substitute the following "The Owner is the person or entity identified as such in the Agreement between the Owner and the Contractor and is referred to throughout the Contract Documents as if singular in number".

2.3 INFORMATION AND SERVICES REQUIRED OF THE OWNER

2.3.4 At the end of the first sentence in Paragraph 2.3.4, delete "and a legal description of the site".

ARTICLE 3 – CONTRACTOR

3.1 GENERAL

3.1.1 Delete the first sentence of Subparagraph 3.1.1 and substitute the following: "The Contractor is the person or entity identified in the Agreement between the Owner and Contractor and is referred to throughout the Contract Documents as if singular in number.

3.4 LABOR AND MATERIALS

- 3.4.2 Add the following Subparagraphs 3.4.2.1 and 3.4.2.2 to Paragraph 3.4.2:
- 3.4.2.1 After the Contract has been executed, the Owner and the Architect will consider a formal request for the substitution of products in place of those specified only under the conditions set forth in the General Requirements (Division 1 of the Specifications).

- 3.4.2.2 By making requests for substitutions based on Subparagraph 3.4.2.above, the Contractor:
- 3.4.2.2.1 represents that the Contractor has personally investigated the proposed substitute product and determined that it is equal to or superior in all respects to that specified;
- 3.4.2.2.2 represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified;
- 3.4.2.2.3 certifies that the cost data presented is complete and includes all related costs under this Contract except the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently become apparent; and
- 3.4.2.2.4 will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.

3.8 ALLOWANCES

3.8.2.2 Add the following to the end of Subparagraph 3.8.2.2: "except when installation is specified as part of the allowance in the General Requirements (Division 1 of the Specifications)."

ARTICLE 5 - SUBCONTRACTORS

5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

- 5.2.1 Add the following Subparagraph 5.2.1.1 to Paragraph 5.2.1:
- 5.2.1.1 Not later than 15 days after the date of commencement, the Contractor shall furnish in writing to the Owner, through the Architect, the names of persons or entities proposed as manufacturers for each of the products identified in the General Requirements (Division 1 of the Specifications) and, where applicable, the name of the installing Subcontractor.

ARTICLE 7 – CHANGES IN THE WORK

7.3 CONSTRUCTION CHANGE DIRECTIVES

- 7.3.4 In the first sentence, delete the words "a reasonable amount" and substitute "an allowance for overhead and profit in accordance with Subparagraph 7.3.11 below: "
- 7.3.11 In Subparagraph 7.3.4, the allowance for the combined overhead and profit included in the total cost to the Owner shall be based on the following schedule:
- 7.3.11.1 For the Contractor, for Work performed by the Contractor's own forces, (10) ten percent of the cost.
- 7.3.11.2 For the Contractor, for Work performed by the Contractor's Subcontractor, (10) ten percent of the amount due the Subcontractor.
- 7.3.11.3 For each Subcontractor or Sub-subcontractor involved, for Work performed by that Subcontractor's or Sub-subcontractor's own forces, (12) twelve percent of the cost.
- 7.3.11.4 For each Subcontractor, for Work performed by the Subcontractor's Sub-subcontractors, (10) ten percent of the amount due the Sub-subcontractor.
- 7.3.11.5 Cost to which overhead and profit is to be applied shall be determined in accordance with Subparagraph 7.3.4.
- 7.3.11.6 In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, materials and Sub-contracts. Labor and materials shall be itemized in the manner prescribed above. Where major cost items are Sub-contracts, they shall be

itemized also. In no case will a change involving over \$500.00 be approved without such itemization

ARTICLE 9 – PAYMENTS AND COMPLETION

9.3 APPLICATIONS FOR PAYMENT

9.3.1 Add the following sentence to Subparagraph 9.3.1: "The form of Application for Payment shall be a notarized AIA Document G702, Application and Certification for Payment, supported by AIA Document G703, Continuation Sheet."

9.8 SUBSTANTIAL COMPLETION

9.8.5 Add the following sentence to Subparagraph 9.8.5: "The payment shall be sufficient to increase the total payments to 95 percent of the Contract Sum, less such amounts the Architect shall determine for incomplete work or unsettled claims."

ARTICLE 10 - PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

- 10.1 Add the following Subparagraphs 10.1.2 and 10.1.3 to Paragraph 10.1:
- 10.1.2 If reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop work in the affected area and report the condition to the Owner and the Architect in writing. The Owner, Contractor and Architect shall then proceed in the same manner described in Subparagraph 10.1.3.
- 10.1.3 The Owner shall be responsible for obtaining the services of a licensed laboratory to verify a presence or absence of the material or substance reported by the Contractor and, in the event the material or substance is found to be present, to verify that it has been rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform the task of removal or safe containment of such material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or the Architect has reasonable objection to the persons or entities proposed by the Owner, the Owner shall propose another to whom the Contractor or the Architect has no reasonable objection.

10.2 SAFETY OF PERSONS AND PROPERTY

- 10.2.3 Add the following Subparagraph 10.2.3.1 to Paragraph 10.2.3:
- When the use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary, the Contractor shall give the Owner reasonable advance notice.

ARTICLE 11 - INSURANCE AND BONDS

11.1.1 Delete the first sentence and replace with the following:
"The Contractor shall purchase and maintain insurance & provide bonds of the types and units of liability, containing the endorsements, and subject to the items and conditions as set forth in the Solicitation, Agreement, Section 00 73 16 Insurance Requirements, or elsewhere in the Contract Documents."

ARTICLE 13 – MISCELLANEOUS PROVISIONS

Add the following Paragraphs to Article 13:

13.6 EQUAL OPPORTUNITY

- 13.6.1 The Contractor shall maintain policies of employment as follows:
- 13.6.1.1 The Contractor and the Contractor's Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, or national origin. The Contractor shall take affirmative action to insure that applicants are employed, and that employees are treated during employment without regard to their race, religion, color, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.
- 13.6.1.2 The Contractor and the Contractor's Subcontractors shall, in all solicitations or advertisements for employees placed by them or on their behalf, state that all qualified applicants will receive consideration for employment without regard to their race, religion, color, sex, or national origin.

13.7 STATE SALES AND USE TAX EXEMPTION

13.7.1 Bidders and their Subcontractors and material suppliers shall not include in their Bids any Rhode Island State Sales and Use Taxes relative to the performance of the Work that is covered by the exemption. The Owner will furnish tax exempt numbers required.

13.8 NOTICE OF DEFINITION OF OWNER

13.8.1 The "Owner" as referred to in these specifications is the Town of Scituate, RI.

END OF DOCUMENT 00 73 00



SCITUATE TOWN HALL

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DOCUMENT 00 73 46 WAGE DETERMINATION SCHEDULE

The State of Rhode Island Department of Labor, Division of Professional Regulation General Decision Modification document, in effect at the time of the Bid issuance for this Project, is an integral part of the Bid Documents for use in fulfilling prevailing wage rate requirements. A copy is available on the web site of the State of Rhode Island Department of Administration, Division of Purchases.

The Division of Purchases Web Site Address:

www.dlt.ri.gov/pw

Click on "Information"; click on "Prevailing Wage Table".

Documents are not contained within this Project Manual but may be obtained from the State of Rhode Island, Department of Labor and Training, Division of Professional Regulations, 1511 Pontiac Avenue, Cranston, RI 02920-4407, Tel. No. 401-462-8580.

The Town of Scituate will require copies of certified payrolls to be submitted with the monthly application for payment. Said Certified payrolls must be submitted to Finance Office, Town of Scituate, 195 Danielson Pike, North Scituate, RI 02857.

END OF DOCUMENT 00 73 46



SCITUATE TOWN HALL

Renovations

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DOCUMENT 00 91 13 ADDENDA

PART 1 GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS

- A. As of the time of publication of this project manual no addenda had been issued.
- B. Should Addenda be issued during the Bid Period, They will augment this Document and become a part of the Project Manual.
- C. Such Addenda and Modifications when issued, with reference to the Project Manual, the General Conditions, Supplemental General Conditions, Drawings or Specifications, shall be inserted following this page and become integral parts of the Contract Documents.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTIONS (Not Applicable)

END OF SECTION 00 91 13

ADDENDA 00 91 13-1



SCITUATE TOWN HALL

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DOCUMENT 00 92 00

LIST OF DRAWING SHEETS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work specified in this Document.

1.02 REFERENCE

- A. The Drawings hereinafter listed represent an integral part of the Contract Documents. They should not be considered as a separate entity, as along with the technical specifications, form a process of disseminating information required to perform the Work of this Project.
- B. The Drawings may be issued in multiple packages or phases. The Schedule below will be modified as these packages are issued.

1.03 SCHEDULE

A. The following schedule indicates the Drawings of this Contract. The manner of listing and respective order are for convenience only and do not obligate the Contractor to perform the Work in any specific sequence. The work indicated on each drawing should not be construed as specific work for a specific trade, subcontractor or supplier.

B. SCHEDULE OF DRAWINGS:

Number	Title
CS	COVER SHEET
C1	SITE PLAN
CS0.1	CODE STUDY
CS0.2	EGRESS & OCCUPANCY DIAGRAMS
D0.1	DEMOLITION FOUNDATION & PARTIAL SLAB PENETRATION PLANS
D1.1	DEMOLITION 1 ST FLOOR PLAN
D1.2	DEMOLITION 2 ND FLOOR PLANS
D1.3	DEMOLITION FRAMING PLAN
D1.4	DEMOLITION ROOF PLAN
D3.1	DEMOLITION ELEVATIONS
. 1 1	1ST DI COD DI ANI
A1.1	1 ST FLOOR PLAN
A1.2	2 ND FLOOR PLAN
A1.3	1 ST FLOOR FLOOR FINISH PLAN
A1.4	2 ND FLOOR FLOOR FINISH PLAN
A1.5	1ST FLOOR REFLECTED CEILING PLAN & SCHEDULE
A1.6	2 ND FLOOR REFLECTED CEILING PLAN & SCHEDULE

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A1.7	ROOF PLAN & DETAILS
A2.1	DOOR & STOREFRONT SCHEDULE & DETAILS
A3.1	EXTERIOR ELEVATIONS & SCHEDULE
A4.1	BUILDING SECTIONS
A4.2	WALL SECTIONS
A4.3	WALL SECTIONS
A4.4	WALL SECTIONS
A4.5	RAMP & LANDING SECTIONS
A4.6	STAIR SECTIONS
A4.7	ENLARGED STAIR PLAN & DETAIL
A4.8	ENGLARGED RAMP PLAN & DETAIL
A5.1	DETAILS
A5.2	ROOF DETAILS
A6.1	INTERIOR ELEVATIONS
A6.2	INTERIOR ELEVATIONS, SCHEDULES & DETAILS
S0.1	STURCTURAL NOTES
S1.1	FOUNDATION PLAN
S1.2	FOUNDATION DETAILS
S1.3	FLOOR FRAMING PLANS & DETAILS
S1.4	ROOF FRAMING PLAN
MPD1.0	MECHANICAL & PLUMBING DEMOLITION
M1.1	PLANS, NOTES & SCHEDULES MECHANICAL
M2.1	MECHANICAL SPECIFICATIONS
P1.1	PLANS, DETAILS & SCHEDULES PLUMBING
E1.1	ELECTRICAL DEMOLITION CONDITIONS PLAN
E2.1	LIGHTING AND ELECTRICAL PLANS
E3.1	ELECTRICAL LIFE SAFETY PLANS
E4.1	ELECTIRICAL SPECIFIATIONS

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

END OF DOCUMENT 00 92 00



SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

AA# 22173

SECTION 01 11 00 SUMMARY OF WORK

PART 1 GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Project consists of additions and renovations to the existing Scituate Town Hall.
- B. The Work includes but is not limited to site improvements, building envelope repairs, building addition, concrete work, masonry work, installation of doors, frames and hardware, window systems, drywall systems, ceiling systems, floor coverings, painting, HVAC, plumbing, electrical and IT systems.
- C. Coordination with Owner's separate concurrent contracts, if any.
- D. The Work will be constructed under a single prime construction contract.

1.02 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.03 FUTURE WORK

A. FUTURE CONTRACT: The Owner reserves the right to award contracts for additional work to be performed at the site during construction and following the Substantial Completion. Completion of that future work depends on the progress of, and the successful and timely completion of, the preparatory and related Work of this Contract.

1.04 CONTRACTOR AND CONTRACTOR USE OF PREMISES

- A. GENERAL: During the construction period, the Contractor shall have use of the premises for construction operations, including use of the site, to the extent as directed by the Owner. Their use of the premises is also limited by the Owner's right to perform work or to retain other contractors on portions of the Project.
- B. USE OF THE SITE: Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated or as allowed by the Owner.

1.05 OCCUPANCY REQUIREMENTS

A. PARTIAL OWNER OCCUPANCY: The Owner reserves the right to occupy and to place and install equipment in completed areas of the building prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.

SUMMARY OF WORK 01 11 00 - 1

Aharonian & Associates, Inc. - Architects

Scituate Town Hall Renovations

Scituate, Rhode Island

- 1. The Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.
- 2. Obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
- 3. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.
- 4. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTIONS (Not Applicable)

END OF SECTION 01 11 00

SUMMARY OF WORK 01 11 00 - 2



SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

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SECTION 01 20 00 PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Procedures for preparation and submittal of applications for progress payments.
- B. Documentation of changes in Contract Sum and Contract Time.
- C. Change procedures.
- D. Defect assessment.
- E. Procedures for preparation and submittal of application for final payment.

1.02 RELATED REQUIREMENTS

- A. Section 00 52 00 Agreement Form: Contract Sum, retainages, and monetary values of unit prices.
- B. Section 00 72 00 General Conditions: Additional requirements for progress payment, final payment, changes in the Work.
- C. Section 01 21 00 Allowances: Payment procedures relating to allowances.
- D. Section 01 22 00 Unit Prices: Monetary values of unit prices; Payment and modification procedures relating to unit prices.
- E. Section 01 23 00 Alternates.
- F. Section 01 31 13 Project Coordination.
- G. Section 01 33 00 Submittal Procedures.
- H. Section 01 78 00 Closeout Procedures Submittals: Project Record Documents.

1.03 SCHEDULE OF VALUES

- A. Use Schedule of Values Form: AIA G703, edition stipulated in the Agreement.
- B. Forms filled out by hand will not be accepted.
- C. Submit Schedule of Values in duplicate within 15 days after date established in Notice to Proceed.
- D. Format: Utilize the Table of Contents of this Project Manual. Identify each line item with number and title of the specification section. Identify site mobilization, bonds and insurance, general conditions and closeout.

- E. Include in each line item, the amount of Allowances specified in Section 01 21 00 Allowances. For unit cost Allowances, identify quantities taken from Contract Documents multiplied by the unit cost to achieve the total for the item.
- F. Include separately from each line item, a direct proportional amount of Contractor's overhead and profit.
- G. Revise schedule to list approved Change Orders, with each Application For Payment.

1.04 APPLICATIONS FOR PROGRESS PAYMENTS

- A. Payment Period: Submit at intervals stipulated in the Agreement.
- B. Use form AIA G702 and Form AIA G703, edition stipulated in the Agreement.
 - 1. Prepare a draft version "pencil copy" of each application and distribute via email 5 days prior to due date for review by Architect and Owner's Representative.
 - 2. After making agreed revisions, individually sign and notarize with notary's official seal, all copies. Deliver to Owner's Representative for further processing and distribution.
 - 3. For each item, provide a For each item, provide a column for listing: Item Number; Description of Work; Scheduled Value. Previous Applications: Work in Place and Stored Materials under this Application: Authorized Change Orders; Total Completed and Stored to Date of Application; Percentage of Completion; Balance to Finish; and Retainage
- C. Forms filled out by hand will not be accepted.
- D. Execute certification by signature of authorized officer.
- E. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored products.
- F. List each authorized Change Order as a separate line item, listing Change Order number and dollar amount as for an original item of work.
- G. Submit three hard-copies of each Application for Payment.
- H. Include the following with the application:
 - 1. Transmittal letter as specified for submittals in Section 01 33 00/
 - 2. Construction progress schedule, revised, updated and current.
 - 3. Partial release of liens from major subcontractors and vendors.
 - 4. Project record documents as specified in Section 01 78 39, for review by Owner which will be returned to the Contractor.
 - 5. Affidavits attesting to off-site stored products.
 - 6. Copies of any/all inspection reports, by the authorities having jurisdiction performed since submission of previous requisitions are to be submitted to Architect prior to or coinciding with applications for payment. Failure to submit inspection reports will be considered grounds for withholding payments.
- I. When Architect requires substantiating information, submit data justifying dollar amounts in questions. Provide one copy of data with cover letter for each copy of submittal. Show application number and date, and line item by number and description.

1.05 CHANGE PROCEDURES

- A. The Architect will advise of minor changes in the Work not involving an adjustment to Contract Sum/Price or Contract Time as authorized by AIA A201/CM Article 12.4 by issuing supplemental instructions on AIA Form G710 Architect's Supplemental Instruction or other similar form.
- B. The Architect may issue a Proposal Request which includes a detailed description of a proposed change with supplementary or revised Drawings and specifications, a change in Contract Time for executing the change. Contractor will prepare and submit an estimate within 7 days.

- C. The Contractor may propose a change by submitting request for change to the Architect, describing the proposed change and its full effect on the Work. Include a statement describing the reason for the change, and the effect on the Contract Sum/Price and Contract Time with full documentation and a statement describing the effect on Work by separate or other contractors. Document any requested substitutions in accordance with Section 01 60 00.
- D. STIPULATED SUM/PRICE CHANGE ORDER: Based on Proposal Request and Contractor's fixed or maximum price quotation or Contractor's request for a Change Order as approved by Architect.
- E. UNIT PRICE CHANGE ORDER: For pre-determined unit prices and quantities, the Change Order will be executed on a fixed unit price basis. For unit costs or quantities of units of work which are not pre-determined, execute Work under a Construction Change Authorization. Changes in Contract Sum/Price or Contract Time will be computed as specified for Time and Material Change Order.
- F. CONSTRUCTION CHANGE AUTHORIZATION: Architect may issue a directive, on AIA Form G713 Construction Change Authorization or similar form, signed by the Owner, instructing the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order. Document will describe changes in the Work, and designate method of determining any change in Contract Sum/Price or Contract Time. Promptly execute the change.
- G. TIME AND MATERIAL CHANGE ORDER: Submit itemized account and supporting data after completion of change, within time limits indicated in the Conditions of the Contract. Architect will determine the change allowable in Contract Sum/Price and Contract Time as provided in the Contract Documents.
- H. Maintain detailed records of work done on Time and Material basis. Provide full information required for evaluation of proposed changes, and to substantiate costs for changes in the Work.
- I. CHANGE ORDER FORMS: AIA G701 Change Order.
- J. EXECUTION OF CHANGE ORDERS: Architect will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.

1.06 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Architect, it is not practical to remove and replace the work, The Architect will direct an appropriate remedy or adjust payment.
- C. The defective Work may remain, but the unit sum will be adjusted to a new sum at the discretion of the Architect.
- D. The defective Work will be partially repaired to the instructions of the Architect, and the unit sum will be adjusted to a new sum at the discretion of the Architect.
- E. The individual Specification Sections may modify these options or may identify a specific formula or percentage sum reduction.
- F. The authority of the Architect to assess the defect and identify a payment adjustment is final.
- G. Non-Payment for Rejected Products: Payment will not be made for rejected products for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable
 - 2. Products determined as unacceptable before or after placement
 - 3. Products not completely unloaded from the transporting vehicle
 - 4. Products placed beyond the lines and levels of the required Work.
 - 5. Products remaining on hand after completion of the Work.

1.07 APPLICATION FOR FINAL PAYMENT

- A. Reference the General Conditions, and as may otherwise be required in the Contract Documents.
- B. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments and sum remaining due.
- C. Application for Final Payment will not be considered until the following have been accomplished:
 - 1. All closeout procedures specified in Section 017800.
 - 2. Insurance certificates for products and completed operations where required and proof that taxes, fees and similar obligations were paid.
 - 3. AIA Document G706, "Contractor's Affidavit of Payment and Debts and Claims".
 - 4. AIA Document G706A, "Contractor's Affidavit of Release of Liens".
 - 5. AIA Document G707, "Consent of Surety to Final Payment".
 - 6. Evidence that claims have been settled.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTIONS (NOT USED)

END OF SECTION 01 20 00



SCITUATE TOWN HALL

Renovations

Scituate, Rhode Island

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SECTION 01 31 13 PROJECT COORDINATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Administrative and supervisory requirements necessary for coordinating construction operations including, but not necessarily limited to, the following:
 - 1. General project coordination, administrative procedures and conservation.
 - 2. Submittals.
 - 3. Field engineering.
 - 4. Cleaning and protection.

1.02 RELATED SECTIONS

- A. Section 01 31 19 Project Meetings: Progress and coordination meetings, pre-installation conferences.
- B. Section 01 33 00 Submittal Procedures: Contractor's Construction Schedule.
- C. Section 01 60 00 Product Requirements: Materials and Equipment.
- D. Section 01 78 00 Closeout Procedures and Submittals.
- E. Section 01 78 39 Project Record Documents.

1.03 COORDINATION

- A. Coordinate construction operations included in various Sections of these Specifications to assure efficient and orderly installation of each part of the Work. Coordinate construction operations included under different Sections that depend on each other for proper installation, connection and operation.
 - 1. Schedule construction operations in the sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to assure maximum accessibility for required maintenance, service and repair.
 - 3. Make provisions to accommodate items scheduled for later installation.
- B. Where necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports and attendance at meetings.

- 1. Prepare similar memoranda for the Owner and separate contractors where coordination of their work is required.
- C. ADMINISTRATIVE PROCEDURES: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and assure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of schedules.
 - 2. Installation and removal of temporary facilities.
 - 3. Delivery and processing of submittals.
 - 4. Progress meetings.
 - 5. Project closeout activities.
- D. CONSERVATION: Coordinate construction operations to assure that operations are carried out with consideration given to conservation of energy, water and materials.
 - Salvage materials and equipment involved in performance of, but not actually incorporated in, the Work.

1.04 SUBMITTALS

- A. COORDINATION DRAWINGS: Prepare coordination drawings where careful coordination is needed for installation of products and materials fabricated by separate entities. Prepare coordination drawings where limited space availability necessitates maximum utilization of space for efficient installation of different components.
 - 1. Show the relationship of components shown on separate Shop Drawings.
 - 2. Indicate required installation sequences.
 - 3. Comply with requirements contained in Section 01 33 00 Submittal Procedures.
- B. STAFF NAMES: Within 15 days of commencement of construction operations, submit a list of the Contractor's principal staff assignments, including the superintendent and other personnel in attendance at the Project Site. Identify individuals and their duties and responsibilities. List their addresses and telephone numbers.
 - 1. Post copies of the list in the Project meeting room, the temporary field office and each temporary telephone.

1.05 FIELD ENGINEERING

- A. Employ a Land Surveyor registered in the State of Rhode Island and acceptable to the Architect.
- B. Contractor to locate and protect survey control and reference points.
- C. Control datum for survey is that shown on Drawings.
- D. Provide field engineering services. Establish elevations, lines and levels utilizing recognized engineering survey practices.
- E. Submit a copy of registered site drawing and certificate signed by the Land Surveyor that the elevations and locations of the Work are in conformance with the Contract Documents.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.01 GENERAL COORDINATION PROVISIONS

- A. INSPECTION OF CONDITIONS: Require the Installer of each major component to inspect both the substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.
- B. Coordinate temporary enclosures with required inspections and tests to minimize the necessity of uncovering completed construction for that purpose.

3.02 CLEANING AND PROTECTION

- A. Clean and protect construction in progress and adjoining materials in place, during handling and installation. Apply protective covering where required to assure protection from damage or deterioration at Substantial Completion.
- B. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period.
- C. LIMITING EXPOSURES: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging or otherwise deleterious exposure during the construction period. Where applicable, such exposures include, but are not limited to, the following:
 - 1. Excessive static or dynamic loading; Excessive internal or external pressures.
 - Excessively high or low temperatures; Thermal shock; Excessively high or low humidity; Water or ice.
 - 3. Air contamination or pollution; Solvents, chemicals, light, radiation; Excessive weathering.
 - 4. Puncture, abrasion, heavy traffic.
 - 5. Soiling, staining and corrosion.
 - 6. Bacteria; Rodent and insect infestation.
 - 7. Combustion; Electrical current.
 - 8. High-speed operation; Improper lubrication; Unusual wear or other misuse; Misalignment.
 - 9. Contact between incompatible materials.
 - 10. Destructive testing;
 - 11. Unprotected storage, improper shipping or handling.
 - 12. Theft or vandalism.

END OF SECTION 01 31 13



SCITUATE TOWN HALL

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SECTION 01 33 00 SUBMITTAL PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Procedural requirements for non-administrative Submittals, including shop drawings, product data, samples and other miscellaneous work-related submittals. Shop drawings, product data, samples and other work-related submittals are required to amplify, expand and coordinate the information contained in the Contract Documents.
 - 1. Refer to other Division 1 Sections and other Contract Documents for specifications on administrative, non-work-related submittals. Such submittals include, but are not limited to the following items:
 - a. Permits; Written consents; Manifests
 - b. Payment applications; Performance and payment bonds; Insurance certificates.
 - c. Inspection and test reports; Progress reports.
 - d. Listing of subcontractors; Construction schedules.
- B. SHOP DRAWINGS: Technical drawings and data that have been specially prepared for this Project, including but not limited to the following items:
 - 1. Fabrication and installation drawings; Coordination drawings (for use on-site).
 - 2. Schedules.
 - 3. Design-mix formulas.
- C. PRODUCT DATA: Standard printed information on manufactured products that has not been specially prepared for this Project, including but not limited to the following items:
 - 1. Manufacturer's product specifications and installation instructions; Catalog cuts.
 - 2. Roughing-in diagram and templates; Standard wiring diagrams; Operational range diagrams.
 - 3. Printed performance curves.
- D. SAMPLES: Physical examples of work, including but not limited to the following items:
 - 1. Partial sections of manufactured or fabricated work.
 - 2. Small cuts or containers of materials.
 - 3. Complete units of repetitively used materials
- E. MISCELLANEOUS SUBMITTALS: Work-related, non-administrative submittals that do not fit in the three previous categories, including, but not limited to the following:
 - 1. Specially prepared and standard printed warranties; Testing and certification reports.
 - 2. Project photographs; Record Drawings; Field measurement data.
 - 3. Keys and other security protection devices.

1.02 RELATED DOCUMENTS

A. Drawings, General Provisions of the Contract and Division 1 Specification Sections apply to work of this Section.

1.03 SUBMITTAL PROCEDURES

- A. GENERAL: Refer to the General Conditions for basic procedures for submittal handling.
- B. COORDINATION: Coordinate the preparation and processing of submittals with the performance of the work. Coordinate each separate submittal with other submittals and related activities such as testing, purchasing, fabrication, delivery and similar activities that require sequential activity.
 - 1. Coordinate the submittal of different units of interrelated work so that one submittal will not be delayed by the Architect's need to review a related submittal. The Architect reserves the right to withhold action on any submittal requiring coordination with other submittals until related submittals are forthcoming.
- C. SCHEDULING: In each appropriate administrative submittal, such as the Progress Schedule, show the principal work-related submittals and time requirements for coordination of submittal activity with related work.
- D. COORDINATION OF SUBMITTAL TIMES: Prepare and transmit each submittal to the Architect sufficiently in advance of the scheduled performance of related work and other applicable activities. Transmit different kinds of submittals for the same unit of work so that processing will not be delayed by the Architect's need to review submittals concurrently for coordination.
- E. REVIEW TIME: Allow sufficient time so that the installation will not be delayed as a result of the time required to properly process submittals, including time for re-submittal, if necessary. Advise the Architect on each submittal, as to whether processing time is critical to the progress of the work, and if the work would be expedited if processing time could be shortened.
 - 1. Allow Fourteen (14) calendar days for the Architect's initial processing of each submittal. Allow a longer time period where processing must be delayed for coordination with subsequent submittals. The Architect will advise the Contractor promptly when it is determined that a submittal being processed must be delayed for coordination.
 - 2. Allow seven (7) calendar days for reprocessing each submittal.
 - 3. No extension of time will be authorized because of the Contractor's failure to transmit submittals to the Architect sufficiently in advance of the work.
- F. SUBMITTAL PREPARATION: Mark each submittal with a permanent label for identification. Provide the following information on the label for proper processing and recording of action taken.
 - 1. Project name; Date.
 - 2. Name and address of Owner, Contractor and Supplier.
 - 3. Name of manufacturer; Number and title of appropriate Specification Section; Drawing number and detail references, as appropriate; Similar definite information as necessary.
 - 4. Provide a space on the label for the Contractor's review and approval markings, and a space for the Architect's "Action" marking.
- G. SUBMITTAL TRANSMITTAL: Package each submittal appropriately for transmittal and handling. Transmit four (4) copies, plus the number of copies the Contractor wants returned to him after review of each submittal by the Architect, and to other destinations as required, by use of a transmittal form. Prepare a separate transmittal form for each division of work and identify each submittal by Specification Section number on the transmittal form. Submittals received from sources other than the Contractor will be returned to the sender "without action".

- 1. Record relevant information and requests for data on the transmittal form. On the transmittal form, or on a separate sheet attached to the form, record deviations from the requirements of the Contract Documents, if any, including minor variations and limitations.
- 2. Submittals will be accepted by the Architect if transmitted via E-mail.
- 3. No submittals will be accepted by the Architect if transmitted via FAX machine.
- 4. Include the Contractor's signed certification stating that information submitted complies with requirements of the Contract Documents.
- 5. Sequentially number the transmittal forms; re-submittals to have original number with an alphabetic suffix.
- H. CONTRACTOR'S REVIEW: Stamp of approval indicates to Owner and Architect that all quantities, dimensions, field construction criteria, materials, catalog numbers and similar data have been determined and verified, and that each submittal has been reviewed or coordinated with requirements of Work and Contract Documents. Failure to provide the Contractor's Review Stamp shall be grounds for the Submittal to be returned to the Contractor with no action taken.
- I. No portion of Work requiring shop drawings shall be started or any materials be fabricated, delivered to site or installed prior to approval of such items. Fabrication performed, materials purchased or onsite construction accomplished which does not conform to approved shop drawings and data shall be at Contractor's risk. Owner will not be liable for any expense or delay due to corrections or remedies required to accomplish conformity.
- J. Project work, materials, fabrications and installation shall conform to approved shop drawings.

1.04 PERFORMANCE REQUIREMENTS

A. MISCELLANEOUS SUBMITTALS

- 1. INSPECTION AND TEST REPORTS: Classify each inspection and test report as being either "shop drawings" or "product data" depending on whether the report is specially prepared for the project, or a standard publication of workmanship control testing at the point of production. Process inspection and test reports accordingly.
- 2. SURVEY DATA: Provide copies of all survey data collected for property surveys, field measurements, and quantitative records of actual work, damage surveys and similar data required by the individual Sections of these specifications. None of the specified copies will be returned.
- 3. STANDARDS: Where submittal of a copy of standards is indicated, and except where copies of standards are specified as an integral part of a "Product Data" submittal, submit a single copy of standards for the Architect's use. Where workmanship, whether at the project site or elsewhere, is governed by a standard, furnish additional copies of the standard to installers, Owner's field representative and others involved in the performance of the Work.
- 4. CLOSEOUT SUBMITTALS: Refer to section "Closeout Procedures and Submittals" and to individual Sections of these specifications for specific submittal requirements of project closeout information, materials, tools and similar items.
 - a. RECORD DOCUMENTS: Furnish set of original documents as maintained on the project site.
- 5. GENERAL DISTRIBUTION: Provide additional distribution of submittals to Subcontractors, suppliers, fabricators, installers, governing authorities and others as necessary for the proper performance of the Work. Include such additional copies of submittals in the transmittal to the Architect where the submittals are required to receive "Action" marking before final distribution. Record distributions on transmittal forms.

1.05 ARCHITECT'S ACTION

A. GENERAL: Except for submittals for the record and similar purposes, where action and return on submittals is required or requested, the Architect will review each submittal, mark with appropriate "Action", and where possible return within fourteen (14) calendar days of receipt. Where the submittal must be held for coordination the Architect will so advise the Contractor without delay.

- B. ACTION STAMP: The Architect will stamp, sign and date each submittal copy to be returned to Contractor and indicate disposition of each submittal in accordance with the following grading requirements:
 - 1. "Approved" or "Reviewed" indicates that Architect notes no exception to the intent of the Contract Documents. Fabrication of item may commence.
 - 2. "Approved as Noted" or "Furnish as Corrected" indicates that Contractor may begin implementing the Work method or incorporating the material and equipment covered by the submittal in accordance with the noted corrections. Where submittal information will be incorporated in Operation and Maintenance data, a corrected copy shall be provided.
 - 3. "Revise and Resubmit" indicates nonconformance with the Contract requirements or that too many corrections would be necessary. Except at its own risk, Contractor shall not undertake Work covered by this submittal until it has been revised, resubmitted, and returned marked either "Approved" or "Furnish as Corrected".
 - 4. "Rejected" indicates nonconformance with the Contract requirements. The Architect will state the reasons for rejections.

C. ARCHITECT'S REVIEW

- 1. Architect's review of submitted drawings and data will cover only general conformity to drawings and specification, external connections and dimensions which affect layout.
- 2. Architect's review does not indicate thorough review of all dimensions.
- 3. Architect's review of submittals does not relieve Contractor's responsibility for errors, omissions or deviations, field verification of all dimensions nor responsibility for compliance with Contract Documents.

1.06 RESUBMISSION REQUIREMENTS

- A. Make any corrections or changes in the submittals required by the Architect and resubmit until they are denoted "Approved", "Reviewed", "Approved as Noted" or "Furnish As Corrected" by the Architect. Resubmission requirements specified in individual specifications Sections, which differ from these requirements, will take precedence over these requirements.
- B. SHOP DRAWINGS AND PRODUCT DATA
 - 1. Revise initial drawings or data, and resubmit as specified for the initial submittal.
 - 2. Indicate any changes which have been made other than those requested by the Architect.
- C. SAMPLES: Submit new samples as required for initial submittal

1.07 DISTRIBUTION

- A. Distribute reproductions of shop drawings and copies of product data which carry the Architect's stamp denoting "Approved", "Reviewed", "Approved as Noted" or "Furnish As Corrected" to:
 - 1. Job site file; Record documents file.
 - 2. Subcontractors; Supplier or fabricator.
- B. Distribute samples which carry the Architect's stamp denoting "Approved", "Reviewed", "Approved as noted" or "Furnish as Corrected" as directed by the Architect.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

END OF SECTION 01 33 00



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SECTION 01 45 00 QUALITY CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Quality assurance and control of installation.
- B. References.
- C. Field samples.
- D. Mock-up.
- E. Inspection and testing laboratory services.
- F. Manufacturers' field services and reports.

1.02 RELATED SECTIONS

- A. Section 01 33 00 Submittal Procedures: Submission of Manufacturers' Instructions and Certificates.
- B. Section 01 45 29 Testing Laboratory Services.
- C. Section 01 60 00 Product Requirements: Requirements for material and product quality.

1.03 QUALITY ASSURANCE/CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, Products, services, site conditions and workmanship, to produce Work of specified quality.
- B. Comply fully with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- D. Comply with specified standards as a minimum quality for the Work except when more stringent tolerances, codes or specified requirements indicate higher standards or more precise workmanship.
- E. Perform work by persons qualified to produce workmanship of specified quality.
- F. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion or disfigurement.

1.04 REFERENCES

A. Conform to reference standard by date of issue current on date of Contract Documents.

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- B. Obtain copies of standards when required by Contract Documents. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- C. The contractual relationship of the parties to the Contract shall not be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.05 FIELD SAMPLES

- A. Install field samples at the site as required by individual specifications Sections for review.
- B. Acceptable samples represent a quality level for the Work.
- C. Where field sample is specified in individual Sections to be removed, clear area after field sample has been accepted by Architect.

1.06 MOCK-UP

- A. Assemble and erect specified items, with specified attachment and anchorage devices, flashings, seals and finishes.
- B. Where mock-up is specified in individual Sections to be removed, clear area after mock-up has been accepted by Architect.

1.07 INSPECTION AND TESTING LABORATORY SERVICES

- A. The Contractor will appoint and employ services of an independent firm, acceptable to the Owner and Architect, to perform inspection and testing. Contractor shall pay for services from an Allowance specified in Section 01 21 00 Allowances.
- B. The independent firm will perform inspections, tests and other services specified in individual specification Sections and as required by the Architect.
- C. Reports will be submitted by the independent firm to the Architect, in duplicate, indicating observations and results of tests and indicating compliance or non-compliance with Contract Documents.
- D. Cooperate with independent firm; furnish samples of materials, design mix, equipment, tools, storage and assistance as requested.
 - Notify Architect and independent firm 48 hours prior to expected time for operations requiring services.
 - 2. Make arrangements with independent firm and pay for additional samples and tests required for Contractor's use.
- E. Retesting required because of non-conformance to specified requirements shall be performed by the same independent firm on instructions by the Architect. Payment for retesting will be charged to the Contractor by deducting inspection or testing charges from the Contract Sum.

1.08 MANUFACTURERS' FIELD SERVICES AND REPORTS

- A. Submit qualifications of observer to Architect 30 days in advance of required observations. Observer subject to approval of Architect/Owner.
- B. When specified in individual specification Sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment as applicable, and to initiate instructions when necessary.

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- C. Individuals to report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.
- D. Submit report in duplicate within 30 days of observation to Architect for review.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTIONS (Not Applicable)

END OF SECTION 01 45 00

QUALITY CONTROL 01 45 00 - 3



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SECTION 01 60 00 PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Products, materials and equipment.
- B. Transportation and handling.
- C. Storage and protection.
- D. Product options.
- E. Substitutions.

1.02 RELATED SECTIONS

- A. Document 00 21 13 Instructions to Bidders: Product options and substitution procedures.
- B. Document 00 22 13 Supplementary Instructions to Bidders.
- C. Section 01 45 00 Quality Control: Product quality monitoring.

1.03 MANUFACTURED AND FABRICATED PRODUCTS

- A. Design, fabricate and assemble in accordance with the best engineering and shop practices.
- B. Manufacture like parts of duplicate units to standard sizes and gages, to be interchangeable.
- C. Two or more items of the same kind shall be identical, by the same manufacturer.
- D. Products shall be suitable for service conditions.
- E. Equipment capacities, sizes and dimensions shown or specified shall be adhered to unless variations are specifically reviewed by Architect.
- F. Do not use material or equipment for any purpose other than that for which it is designed or is specified.

1.04 MATERIAL AND EQUIPMENT INCORPORATED INTO THE WORK

- A. Conform to applicable specifications and standards.
- B. Comply with size, make, type and quality specified or as specifically reviewed by the Architect.

1.05 MANUFACTURER'S INSTRUCTIONS

- A. When the Contract Documents require that installation of Work shall comply with manufacturer's printed instructions, obtain and distribute copies of such instructions to parties involved in the installation, as specified in Section 01 33 00 Submittal Procedures.
- B. Maintain one set of complete instructions at the job site during installation and until completion.
- C. Handle, install, connect, clean, condition and adjust products in strict accordance with such instructions and in conformity with specified requirements.
- D. Should job conditions or specified requirements conflict with manufacturer's instructions, consult with Architect for further instructions.
- E. Do not proceed with Work without clear instructions.
- F. Perform Work in accordance with manufacturer's instructions. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by the Contract Documents.

1.06 CERTIFICATES OF CONFORMANCE AND MANUFACTURE

- A. In addition to other requirements specified herein, the Contractor shall furnish to the Architect, as specified in Section 01 33 00 Submittals, notarized certificates of conformance and manufacture that all materials and/or equipment to be furnished under this Contract meet the specification requirements. When directed, each shipment of material shall be accompanied by the manufacturer's notarized certificates of conformance and manufacture. Unless otherwise specifically specified, all testing of materials shall be provided by the Contractor at no additional expense to the Owner.
- B. Each manufacturer's certificate shall be endorsed or accompanied by the Contractor's certificate that the material certified by the manufacturer will be the material incorporated in the Work.

1.07 TRANSPORTATION AND HANDLING

- A. Arrange deliveries of products in accordance with construction schedules, coordinate to avoid conflict with Work and conditions at the site and also when two or more trades, contractors or suppliers are involved.
- B. Transport all materials and equipment on legally approved conveyances as required or recommended by the respective manufacturer or supplier.
- C. Deliver products in undamaged condition, in manufacturer's original containers or packaging with identifying labels intact and legible.
- D. Receive and handle all materials and equipment, at the Project site, by conveyances or methods as recommended by the respective manufacturer or supplier to prevent damage to products.
- E. Immediately on delivery, inspect shipments to assure compliance with requirements of Contract Documents and reviewed submittals, and that products are properly protected and undamaged.
- F. Remove from the site any material or item of equipment damaged during the transportation or handling process, and immediately replace at no additional cost to the Owner.

1.08 STORAGE AND PROTECTION

- A. Store products in accordance with the manufacturer's instructions, with seals and labels intact and legible.
- B. Store products subject to damage by the elements in weathertight enclosures.
- C. Maintain temperature and humidity within the ranges required by manufacturer's instructions.

D. Maintain all storage areas in a clean and orderly condition at all times.

1.09 EXTERIOR STORAGE

- A. Store fabricated products above the ground, on blocking or skids. Prevent soiling or staining. Cover products that are subject to deterioration with impervious sheet coverings and provide adequate ventilation to avoid condensation.
- B. Store loose granular materials in a well-drained area on solid surfaces to prevent mixing with foreign matter.
- C. Arrange storage in a manner to provide easy access for inspection. Make periodic inspections of stored products to assure that products are maintained under specified conditions and are free from damage or deterioration.
- D. Replace any material or item of equipment damaged due to inadequate storage or protection and immediately replace at no additional cost to the Owner.

1.10 PROTECTION AFTER INSTALLATION

A. Provide substantial coverings as necessary to protect installed products from damage from traffic and subsequent construction operations. Remove when no longer needed.

1.11 PRODUCT OPTIONS

- A. PRODUCTS SPECIFIED BY REFERENCE STANDARDS OR BY DESCRIPTION ONLY: Any product meeting those standards or description.
- B. PRODUCTS SPECIFIED BY NAMING ONE OR MORE MANUFACTURERS: Products of manufacturers named and meeting specifications, no options or substitutions allowed.
- C. PRODUCTS SPECIFIED BY NAMING ONE OR MORE MANUFACTURERS WITH A PROVISION FOR SUBSTITUTIONS: Submit a request for substitution for any manufacturer not named.

1.12 SUBSTITUTIONS

- A. Instructions to Bidders specify time restrictions for submitting requests for Substitutions during the bidding period to requirements specified in this Section.
- B. Thereafter, Substitutions may be considered when a product becomes unavailable through no fault of the Contractor.
- C. Document each request with complete data substantiating compliance of proposed Substitution with Contract Documents.

D. A REQUEST CONSTITUTES A REPRESENTATION THAT THE CONTRACTOR:

- 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
- 2. Will provide the same warranty for the Substitution as for the specified product.
- 3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete, with no additional cost to Owner.
- 4. Waives claims for additional costs or time extension that may subsequently become apparent.
- 5. Will reimburse Owner for review or redesign services associated with re-approval by authorities.

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E. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.

F. SUBSTITUTION SUBMITTAL PROCEDURE

- 1. Submit four copies of request for Substitution for consideration. Limit each request to one proposed Substitution.
- 2. Submit shop drawings, product data and certified test results attesting to the proposed product equivalence.
- 3. The Architect will notify the Contractor, in writing, of decision to accept or reject request.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

END OF SECTION 01 60 00



SCITUATE TOWN HALL

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SECTION 01 73 29 CUTTING AND PATCHING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Administrative and procedural requirements for cutting and patching.

1.02 RELATED SECTIONS

- A. Section 01 31 13 Project Coordination: Procedures for coordinating cutting and patching with other construction activities.
- B. Section 02 41 13 Selective Demolition: Demolition of selected portions of the building for alterations.
- C. Refer to other Sections for specific requirements and limitations applicable to cutting and patching individual parts of the Work.

1.03 SUBMITTALS

- A. CUTTING AND PATCHING PROPOSAL: Submit a proposal describing procedures well in advance of the time cutting and patching will be performed if the Owner requires approval of these procedures before proceeding. Request approval to proceed. Include the following information, as applicable, in the proposal:
 - 1. Describe the extent of cutting and patching required. Show how it will be performed and indicate why it cannot be avoided.
 - 2. Describe anticipated results in terms of changes to existing construction. Include changes to structural elements and operating components as well as changes in the building's appearance and other significant visual elements.
 - 3. List products to be used and firms or entities that will perform Work.
 - 4. Indicate dates when cutting and patching will be performed.
 - 5. UTILITIES: List utilities that cutting and patching procedures will disturb or affect. List utilities that will be relocated and those that will be temporarily out-of-service. Indicate how long service will be disrupted.
 - 6. Where cutting and patching involves adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with the original structure.
 - 7. Approval by the Architect to proceed with cutting and patching does not waive the Architect's right to later require complete removal and replacement of unsatisfactory work.

1.04 QUALITY ASSURANCE

- A. REQUIREMENTS FOR STRUCTURAL WORK: Do not cut and patch structural elements in a manner that would change their load-carrying capacity or load-deflection ratio.
 - 1. Obtain approval of the cutting and patching proposal before cutting and patching the following structural elements:
 - a. Foundation construction; Bearing and retaining walls.
 - b. Structural concrete; Structural steel and structural decking; Lintels; Miscellaneous structural metals.
 - c. Stair systems.
 - d. Exterior wall construction.
 - e. Equipment supports; Piping, ductwork, vessels and equipment.
- B. OPERATIONAL LIMITATIONS: Do not cut and patch operating elements or related components in a manner that would result in reducing their capacity to perform as intended. Do not cut and patch operating elements or related components in a manner that would result in increased maintenance or decreased operational life or safety.
 - 1. Obtain approval of the cutting and patching proposal before cutting and patching the following operating elements or safety related systems:
 - a. Primary operational systems and equipment.
 - b. Air or smoke barriers; Water, moisture or vapor barriers.
 - c. Membranes and flashings.
 - d. Fire protection systems.
 - e. Noise and vibration control elements and systems.
 - f. Electrical wiring systems; Control systems; Communication systems.
- C. VISUAL REQUIREMENTS: Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in the Architect's opinion, reduce the building's aesthetic qualities. Do not cut and patch construction in a manner that would result in visual evidence of cutting and patching. Remove and replace construction cut and patched in a visually unsatisfactory manner.
 - 1. If possible, retain the original Installer or fabricator to cut and patch the exposed Work. If it is impossible to engage the original Installer or fabricator, engage another recognized experienced and specialized firm.

1.05 WARRANTY

A. EXISTING WARRANTIES: Replace, patch and repair material and surfaces cut or damaged by methods and with materials in such a manner as not to void any warranties required or existing.

PART 2 PRODUCTS

2.01 MATERIALS - GENERAL

A. Use materials identical to existing materials. For exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible, if identical materials are unavailable or cannot be used. Use materials whose installed performance will equal or surpass that of existing materials.

PART 3 EXECUTION

3.01 INSPECTION

A. Examine surfaces to be cut and patched and conditions under which cutting and patching is to be performed before cutting. If unsafe or unsatisfactory conditions are encountered, take corrective action before proceeding.

 Before proceeding, meet at the Project Site with parties involved in cutting and patching. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

3.02 PREPARATION

- A. TEMPORARY SUPPORT: Provide temporary support of work to be cut.
- B. PROTECTION: Protect existing construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of the Project that might be exposed during cutting and patching operations.
- C. Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
- D. Avoid cutting existing utilities serving the building but scheduled to be removed or relocated until provisions have been made to bypass them.

3.03 PERFORMANCE

- A. GENERAL: Employ skilled workmen to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time and complete without delay.
 - 1. Cut existing construction to provide for installation of other components or performance of other construction activities and the subsequent fitting and patching required to restore surfaces to their original condition.
- B. CUTTING: Cut existing construction using methods least likely to damage elements retained or adjoining construction. Where possible, review proposed procedures with the original Installer; comply with the original Installer's recommendations.
 - 1. In general, where cutting, use hand or small power tools designed for sawing or grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. To avoid marring existing finished surfaces, cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Cut through concrete and masonry using a cutting machine, such as a carborundum saw or a diamond-core drill.
 - 4. Comply with requirements of applicable Division 31 Sections where cutting and patching requires excavating and backfilling.
 - 5. Where services are required to be removed, relocated, or abandoned, by-pass utility services, such as pipe or conduit before cutting. Cut-off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal the remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after by-passing and cutting.
- C. PATCHING: Patch with durable seams that are as invisible as possible. Comply with specified tolerances.
 - 1. Where feasible, inspect and test patched areas to demonstrate integrity of the installation.
 - 2. Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - 3. Where removing walls or partitions extends one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform color and

appearance. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

- a. Where patching occurs in a smooth painted surface, extend final paint coat over entire unbroken surface containing the patch after the area has received primer and second coat.
- 4. Patch, repair or rehang existing ceilings as necessary to provide an even-plane surface of uniform appearance.

3.04 CLEANING

A. Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar items. Thoroughly clean piping, conduit, and similar features before applying paint or other finishing materials. Restore damaged pipe covering to its original condition.

END OF SECTION 01 73 29



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SECTION 01 74 00 CLEANING AND WASTE MANAGEMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Provide all necessary material, labor and equipment to maintain the job site free of debris and waste material during construction and to perform final cleaning.

1.02 RELATED SECTIONS

- A. Section 01 78 00 Closeout Procedures and Submittals.
- B. Cleaning and protection requirements as described in other Sections of this Project Manual.

1.03 REQUIREMENTS OF REGULATORY AGENGIES

- A. SAFETY STANDARDS: Maintain project in accordance with the following safety and insurance standards: Federal Occupational Safety and Health Act of 1970.
- B. FIRE PROTECTION: Store volatile waste in covered metal containers and remove from premises daily.
- C. POLLUTION CONTROL: Conduct clean-up and disposal operations to comply with local ordinances and anti-pollution laws.
 - 1. Burning or burying of rubbish and waste materials on the Project site is not permitted.
 - 2. Disposal of volatile fluid waste (such as mineral spirits, oil or paint thinner) in storm sanitary sewer systems or into streams or waterways is not permitted.

PART 2 PRODUCTS

2.01 CLEANING MATERIALS

- A. Use only cleaning materials recommended by manufacturer of surface to be cleaned.
- B. Use cleaning materials only on surfaces recommended by cleaning material manufacturer.

PART 3 EXECUTION

3.01 DURING CONSTRUCTION

A. Oversee cleaning and insure that buildings and grounds are maintained free from accumulations of waste material and rubbish.

- B. Do not allow waste materials, rubbish and debris to accumulate and become an unsightly or hazardous condition. At reasonable intervals or as directed by the Architect during the progress of work, clean up site and access and dispose of waste materials, rubbish and debris from the site and legally dispose of at public or private dumping areas off the Owner's property.
- C. Immediately after unpacking, remove and dispose of all packing materials, case lumber, excelsior, wrapping or other rubbish from site.
- D. Remove all wastes from site and dispose in a manner complying with local ordinances and antipollution laws.
- E. Store volatile wastes in covered metal containers and remove daily.
- F. Vacuum clean interior building areas when ready to receive finish painting and continue vacuum cleaning on an as-needed basis until building is ready for acceptance or occupancy.
- G. Lower waste materials in a controlled manner with as few handlings as possible; do not drop or throw materials from heights.
- H. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet newly painted surfaces.
- I. Provide trash receptacles about site and empty containers daily.
- J. Neatly stack construction materials, such as concrete forms and scaffolding, when not in use.
- K. Promptly remove splattered concrete, asphalt, oil, paint, corrosive liquids and cleaning solution from surfaces to prevent marring or other damage to satisfaction of Architect.
- L. Sprinkle dusty debris with water and calcium chloride as needed.
- M. Ensure that wastes are not buried or burned on site or disposed into storm drains, sanitary sewers, steams or waterways.
- N. Cleanup as determined by Architect will be a condition for recommendation of progress payment application.
 - 1. Contractor shall have full responsibility for cleaning up during and immediately upon completion of work. Remove all rubbish, waste, tools, equipment and appurtenances caused by and used in execution of work, leaving site clean, free of debris and in condition acceptable to Architect.
 - 2. Equipment or material shall not be left within any work area after acceptance of Contract without written permission of Architect. Do not abandon any material at or near site regardless of its value.

3.02 FINAL CLEANING

- A. Use experienced workmen or professional cleaners for final cleaning.
- B. At completion of construction and just prior to acceptance or occupancy, conduct a final inspection of exposed exterior and interior surfaces.
- C. Execute final cleaning prior to final inspection.
- Remove grease, dust, dirt, stains, labels, fingerprints and other foreign materials from interior and exterior surfaces.
- E. Clean interior and exterior glass and surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum resilient, carpeted and soft surfaces.

- F. Repair, patch and touch-up marred surfaces to match adjacent surfaces.
- G. Clean equipment and fixtures to a sanitary condition.
- H. Replace filters of operating equipment.
- I. Replace air conditioning filters if units were operated during construction.
- Clean ducts, blowers and coils if air conditioning units were operated without filters during construction.
- K. Clean debris from roofs, gutters, downspouts and drainage systems.
- L. Broom clean paved surfaces; rake clean other surfaces of grounds.
- M. Remove waste and surplus materials, rubbish and construction facilities from the site.
- N. Maintain cleaning until the building or portion is accepted by the Owner.

END OF SECTION 01 74 00



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SECTION 01 78 00

CLOSEOUT PROCEDURES AND SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Closeout Procedures.
- B. Requirements.
- C. Substantial Completion.
- D. Final Review.
- E. Additional Reviews.
- F. Submittals.
- G. Final Adjustment of Accounts.
- H. Final Application for Payment.
- I. Adjusting.
- J. Operation and Maintenance Data.
- K. Warranties.
- L. Spare Parts and Maintenance Materials.

1.02 RELATED SECTIONS

- A. Section 01 20 00 Price and Payment Procedures
- B. Section 01 21 00 Allowances.
- C. Section 01 75 00 Starting and Adjusting: System start-up, testing, adjusting and balancing.
- D. Section 01 78 39 Project Record Documents.

1.03 REQUIREMENTS

A. Comply with requirements stated in conditions of the Contract and in specifications for administrative procedures in closing out the Work.

1.04 SUBSTANTIAL COMPLETION

- A. When Contractor considers the work is Substantially Complete, he shall submit to the Architect:
 - 1. A written notice that the Work or designated portion thereof, is Substantially Complete.
 - 2. A list of items to be completed or corrected.
- B. Within a reasonable time after receipt of such notice, Architect will review the Work to determine the status of completion.
- C. Should Architect determine that the Work is not Substantially Complete:
 - 1. Architect will promptly notify the Contractor in writing, giving the reasons therefor.
 - 2. Contractor shall remedy the deficiencies in the work and send out another written notice of substantial completion to the Architect.
 - 3. Architect will again review the work.
- D. When Architect concurs that the Work is Substantially Complete, he will:
 - 1. Prepare a Certificate of Substantial Completion, accompanied by Contractor's list of items to be completed or corrected, as verified and amended by the Architect.
 - 2. Submit the certificate to Owner, Contractor and manufacturer for their written acceptance of the responsibilities assigned to them in the certificate.

1.05 FINAL REVIEW

- A. When Contractor considers the Work is complete, he shall submit written certification that:
 - 1. Contract documents have been reviewed.
 - 2. Work has been inspected for compliance with Contract Documents.
 - 3. Work has been completed in accordance with Contract Documents.
 - 4. Equipment and systems have been tested in the presence of the Owner's representative and are operational.
 - 5. Work is completed and ready for final review.
- B. Architect will make final review to verify the status of completion with reasonable promptness after receipt of such certification.
- C. Should Architect consider that the Work is incomplete or defective:
 - 1. Architect will promptly notify the Contractor in writing, listing the incomplete or defective work.
 - 2. Contractor shall take immediate steps to remedy the stated deficiencies and send out another written certification to Architect that the work is complete.
 - 3. Architect will again review the Work.
 - 4. Should Architect consider that the Work is still incomplete or defective, all subsequent reviews shall be considered as Additional Reviews, subject to the provisions listed in 1.06 below.
- D. When the Architect finds that the Work is acceptable under the Contract Documents and that all Punch List items have been accomplished to his satisfaction, he shall request the Contractor to make closeout submittals.

1.06 FEES FOR ADDITIONAL REVIEWS

- A. Should Architect perform additional reviews due to failure of the Work to comply with the claims of status of completion made by the Contractor:
 - 1. Owner will compensate Architect for such additional services.
 - 2. Owner will deduct the amount of such compensation from the final payment to the Contractor.

1.07 CONTRACTOR'S CLOSEOUT SUBMITTALS TO ARCHITECT

- A. Provide (2) original copies & (2) digital copies (USB or CD) of all Closeout Documents as described below.
- B. OPERATING AND MAINTENANCE DATA: Submit documentation as described in 1.11 below.
- C. WARRANTIES, GUARANTEES AND BONDS: Submit documentation as described in 1.12 below.
- D. SPARE PARTS AND MAINTENANCE MATERIALS FOR OWNER: Submit documentation as described in 1.13 below.
- E. Contractor's affidavit of payment of debts and claims.
- F. Contractor's affidavit of release of liens.
- G. Consent of surety to final payment.
- H. Certificate of insurance for products and completed operations.
- I. PROJECT RECORD DRAWINGS: Submit documentation as described in Section 01 78 39.

1.08 FINAL ADJUSTMENT OF ACCOUNTS

- A. Submit a final statement of accounting to Architect.
- B. Statement shall reflect all adjustments to the Contract Sum:
 - 1. The original Contract Sum.
 - 2. Additions and deductions resulting from:
 - a. Previous Change Orders, allowances and unit prices.
 - b. Deductions for uncorrected work, liquidated damages and re-inspection payments.
 - c. Other adjustments.
 - 3. Total Contract Sum, as adjusted.
 - 4. Previous payments.
 - 5. Sum remaining due.
- C. Architect will prepare a final change order reflecting approved adjustments to the Contract sum that were not previously made by Change Orders.

1.09 FINAL APPLICATION FOR PAYMENT

A. Contractor shall submit the final application for payment in accordance with procedures and requirements stated in the General Conditions.

1.10 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

1.11 OPERATION AND MAINTENANCE DATA

- A. Submit one copy of completed volumes in final form 5 days prior to final inspection. This copy will be returned with Architect/Engineer comments. Revise content of documents as required prior to final submittal.
- B. Submit Operation and Maintenance Data bound in 8-1/2 x 11 inch text pages, three D side-ring capacity expansion binders with durable plastic covers. Prepare binder covers with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS", title of project and subject matter of binder when multiple binders are required.
- C. Internally subdivide the binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.
- D. CONTENTS: Prepare a Table of Contents for each volume, with each Product or system description identified, type on 24 pound white paper.
- E. PART 1: Directory, listing names, addresses and telephone numbers of Architect, Engineers, Contractor, Subcontractors and major equipment suppliers.
- F. PART 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses and telephone numbers of Subcontractors and suppliers. Identify the following:
 - 1. Significant design criteria.
 - 2. List of equipment.
 - 3. Parts list for each component.
 - 4. Operating instructions.
 - 5. Maintenance instructions for equipment and systems.
 - 6. Maintenance instructions for all finishes, including recommended cleaning methods and materials and special precautions identifying detrimental agents.
- G. PART 3: Project documents and certificates, including the following:
 - 1. Shop drawings and product data.
 - 2. Air and water balance reports.
 - 3. Certificates.
 - 4. Photocopies of warranties and bonds.
- H. Submit final volumes revised, within ten days after final inspection.

1.12 WARRANTIES

- A. Provide duplicate notarized copies.
 - 1. In addition to the Warranty and Guarantee Requirements of the General Conditions, provide all other guarantees, bonds, affidavits and certifications required throughout the Project Manual.

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- B. Execute and assemble documents from Subcontractors, suppliers and manufacturers.
- C. Provide Table of Contents and assemble in three D side-ring binder with durable plastic cover.
- D. Submit prior to final Application for Payment.
- E. For items of Work delayed beyond date of Substantial Completion, provide updated submittal within ten days after acceptance, listing date of acceptance as start of warranty period.

1.13 SPARE PARTS AND MAINTENANCE MATERIALS

- A. Provide products, spare parts, maintenance and extra materials in quantities specified in individual specification Sections.
- B. Deliver to Project site and place in location as directed by the Owner; obtain receipt prior to final payment.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

END OF SECTION 01 78 00



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SECTION 01 78 39 PROJECT RECORD DOCUMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

1. Project Record Documents required for Contract closeout.

1.02 RELATED SECTIONS

A. Section 01 78 00 – Closeout Procedures and Submittals.

1.03 REQUIREMENTS

- A. Maintain at the site for the Owner one record copy of:
 - 1. Drawings
 - 2. Specifications
 - Addenda
 - 4. Change Orders and other modifications to the Contract
 - 5. Architect field orders or written instructions
 - 6. Reviewed shop drawings, product data and samples
 - 7. Field test records
- B. The Contractor will be required to furnish, at no additional expense to the Owner, the services of a surveyor and/or Engineer registered in the state where the project is located and under whose direction shall be obtained and recorded all surveys, measurements and such other data required for the determination of the as-built records of the construction of all site work.

1.04 MAINTENANCE OF DOCUMENTS AND SAMPLES

- A. Store documents and samples in Contractor's field office apart from documents used for construction.
- B. Provide locked file cabinet for storage of documents and samples.
- C. File documents and samples in accordance with CSI/CSC format.
- D. Maintain documents in a clean, dry, legible condition and in good order. Do not use Record Documents for construction purposes.
- E. Make documents and samples available at all times for inspection by Architect and Owner.

1.05 MARKING DEVICES

A. Provide felt tip marking pens for recording information in the color code designated by Architect.

1.06 RECORDING

- A. Label each document "Project Record" in neat large printed letters.
- B. Record information concurrently with construction progress.
- C. Do not conceal any work until required information is recorded.
- D. DRAWINGS: Principal dimensions, elevations and other data as required shall be recorded for all work, such as:
 - 1. Deviations of any nature made during construction.
 - 2. Location of underground utilities.
 - 3. Field changes of dimension and detail.
 - 4. Changes made by field order or by Change Order.
 - 5. Details not on original Contract Drawings.
- E. The marked-up prints shall be inspected weekly by the Architect and shall be corrected immediately if found either inaccurate or incomplete.
- F. SPECIFICATIONS AND ADDENDA: Legibly mark each Section to record:
 - 1. Manufacturer, trade name, catalog number and supplier of each product and item of equipment actually installed.
 - 2. Changes made by field order or by Change Order.

1.07 FINAL MEASUREMENTS

A. The Contractor shall provide qualified personnel and equipment for taking final measurements for quantities and Record Documents.

1.08 RECORD DRAWINGS

- A. At the completion of the Project, the Record Drawings shall be submitted to the Architect for final review and comment.
- B. The Contractor shall correct, amplify and do all other work as may be required by the Architect to complete the drawings in a manner satisfactory to the Architect and at no additional cost to the Owner.
- C. Upon approval, the Contractor shall provide a final Record Drawing set to the Architect on heavyweight bond and electronic format (PDF). The bond and electronic version shall be submitted to the Owner by the Architect.

1.09 SUBMITTAL

- A. At Contract close-out, deliver Record Documents to Architect for the Owner.
- B. Accompany submittal with transmittal letter in duplicate, containing:
 - 1. Date.
 - Project title and number.

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- 3. Contractor's name and address.
- 4. Title and number of each record document.
- 5. Signature of Contractor or his authorized representative.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION 01 78 39