Request for Proposals Foundation Construction and Site Work for the Town of Johnson, Library Building

CALENDAR OF EVENTS / RFP TIMELINE

Listed below are the important dates and times by which the actions noted must be completed. All dates are subject to change by the TOWN OF JOHNSON. If the TOWN OF JOHNSON finds it necessary to change any of these dates or times prior to the due date, the change will be accomplished by addendum.

ACTION	COMPLETION DATE
Issue RFP	9/11/2025
Last Day for Questions	9/19/25
Addendums Posted (If Necessary)	
Submission Deadline	10/1/2025 4:00pm
Mandatory Site Visit	9/18/25 9:00am
Vendor Presentations	As requested by vendor, not required
Closed Review, Private Setting	10/1/2025 4:00pm
Public Opening	10/6/2025 6:30pm
TO BE CONSIDERED:	TO BE CONSIDERED:
Completion of Utilities across the Public Highway & Patching	No later than 11/1/2025
Completion of Concrete Foundation	No Later than 12/1/2025

Request for Proposals Concrete Foundation

townofjohnson.com

The Town of Johnson requests proposals from qualified Concrete Contractors to construct a new foundation for an addition to the relocated Johnson Public Library. In addition to the foundation, site work for utilities (power, water, and sewer) are needed to be installed across the road and patched with asphalt.

Background:

The Johnson Public Library has been relocated to 73 School Street in Johnson, Vermont. The town is building an addition to the existing structure and needs a new foundation and utilities for before winter.

The Building:

Johnson Public Library 73 School Street Johnson, Vermont, 05656

The proposed foundation is roughly 40' x 60' with one main section with three alcoves, one of which will tie into the existing foundation. Please refer to the attached bid specifications for the construction. Conduit for underground primary, wet tap and 1" waterline, and new sewer connections will have to be installed. The existing foundation has sleeves in place for water and sewer. Water will require a new wet tap.

Contractors submitting a proposal will be expected to be able to:

- COMPLETE THE WORK IN THE TOWN ROW BEFORE 11/1/2025
- COMPLETE THE FOUNDATION BEFORE 12/1/2025
- Provide a bid to construct the new foundation as specified.
- Work with the Architect, Structural Engineer, Mechanical Engineer and the Town to ensure the foundation is built as specified.
- Work with the Village of Johnson for water, sewer, and electric connections and specifications.
- Construct underground 3" conduit for primary construction, provide the CT cabinet or similar, install grounds as specified, install secondary conduit into the new foundation.
- Work with the Village for the wet tap into the water main, the contractor will have to use the Village's specified contractor, to be determined by the site visit.
- Work with the Village for the sewer connection.
- Work with the Village to install roughly 80' of 5' wide temporary asphalt sidewalk.
- Work with the Road Forman to organize road closures around school bus timing.
- Work with the Road Forman to patch the road where water, sewer, and electric were installed.
- Provide examples of foundations and site work for other municipalities, schools, building relocations, or government buildings.
- Clean up after construction.
- Ensure a safe construction zone throughout the construction.
- Work with Town staff to address any concerns that may arise.
- Attend the Site Visit on 9/18/25 at 9:00am 73 School Street, Johnson, Vermont 05656
- Maintain General Liability Insurance, and sign the Town of Johnson's Non-Employee Work Agreement

This request for proposal includes the following work; to be considered, your bid must contain all work included in this bid and specifications provided.

Contractors will:

- Pour the footing with reinforcement to specification.
- Pour the exterior walls, interior footings, and beam pockets, with reinforcement, per specification, to height.
- Install crushed stone to top of footer, install insulation on walls and top of footer height at ground, and install second layer of crushed stone, install vapor barrier, and install third layer of crushed stone per specification.
- Work with the Mechanical Engineer and Architect to allow a waterproof electrical conduit through pipe through the side wall of the foundation, location and size TBD.
- Work with the Town Road Foreman and the Village Foreman.
- Install 3" conduit for electrical primary. Install 3" conduit for secondary, seal the sleeve.
- Wet Tap and install 1" waterline, curb, box and rod. Seal foundation sleeve.
- Install 3" sewer line with connection to the main and seal the foundation sleeve.
- Patch the town highway with asphalt per specification of the Road Foreman.
- Install 5' wide temporary asphalt sidewalk connecting the existing sidewalks, approximately 80'.

This RFP does not include backfilling the completed foundation. However material will begin being trucked possibly during construction. Please also provide an optional hourly rate for backfilling the existing and new foundations. This price is for our information and will not in any way be associated with the contractor selection.

Any contractor who submits a proposal must be willing and able to fulfill the assigned requirements of this contract and shall follow all Town of Johnson standards for equal-opportunity employment and non-discrimination practices.

Site Visit, Mandatory:

• 9/18/25 at 9:00am 73 School Street, Johnson, Vermont 05656

Proposal Submittal

If the submitting contractor has not already been employed by the Town of Johnson, the proposal must include a minimum of three professional references or examples of similar work in picture or narrative form.

Please direct any questions regarding proposal submission to the Johnson Town Administrator, Thomas Galinat, at tojadministrator@townofjohnson.com or 802-793-8480

Completed proposals must be received no later than 10/1/25 at 4pm and delivered by email or in person to:

Thomas Galinat 293 Lower Main West Johnson, VT 05656, or tojadministrator@townofjohnson.com

Responses must be marked "Library Addition Foundation"

NOTE: The Town reserves the right to reject any and all proposals. Proposals received after this deadline may be refused and deemed ineligible for consideration.

Selection of Contractor

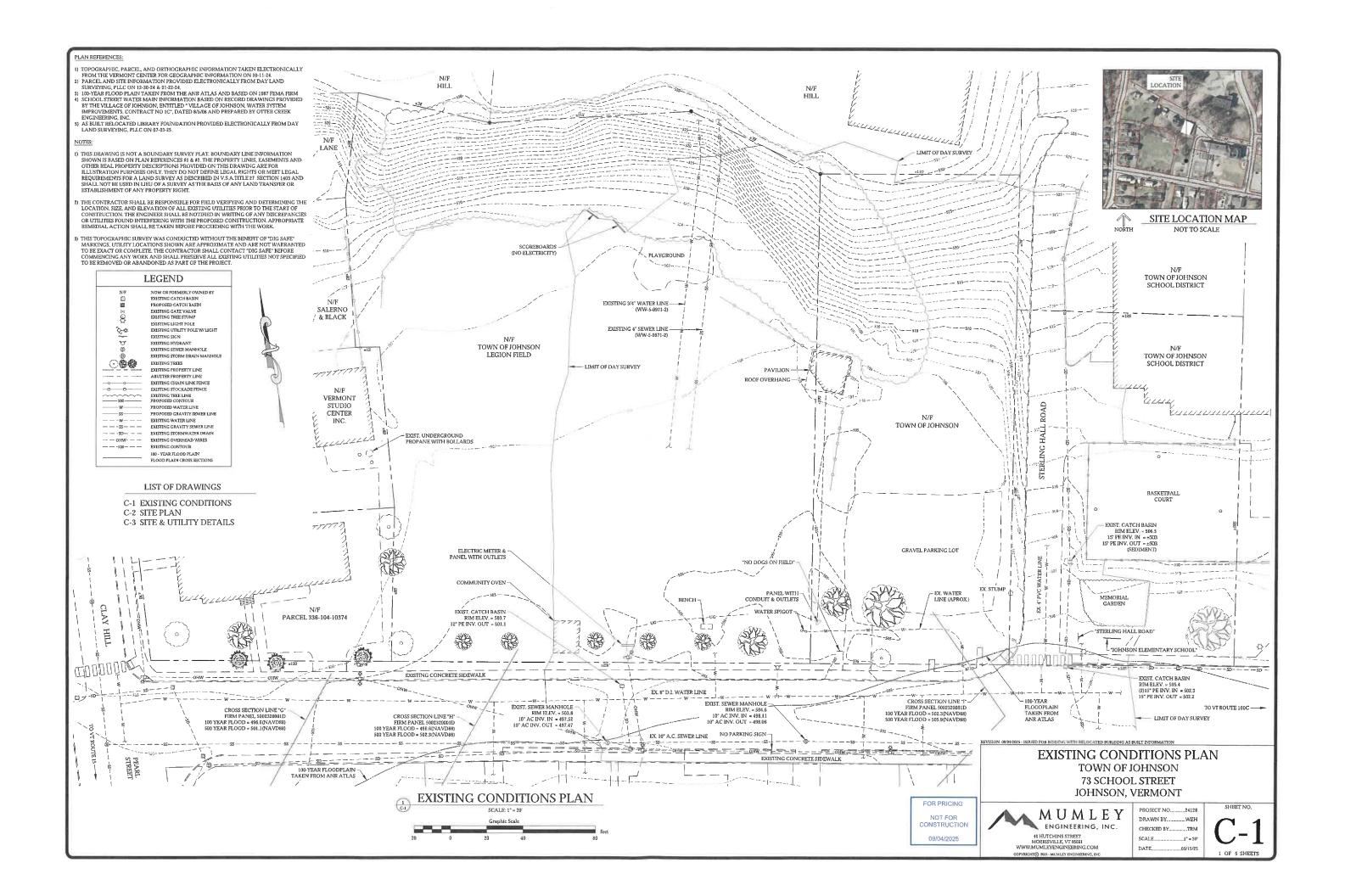
The Town of Johnson reserves the right to accept a proposal and enter into an agreement as a result of the initial proposals received, or alternatively, it may elect to conduct negotiations with those Bidders as determined by the Town, to be within an acceptable competitive range, or alternatively, to negotiate separately with any Bidders when it is determined to be in the best interest of the Town. In addition, the Town may request that Bidders provide a best and final offer. The Town may negotiate any proposal or best and final offer at any time after the deadline for the submission of proposals.

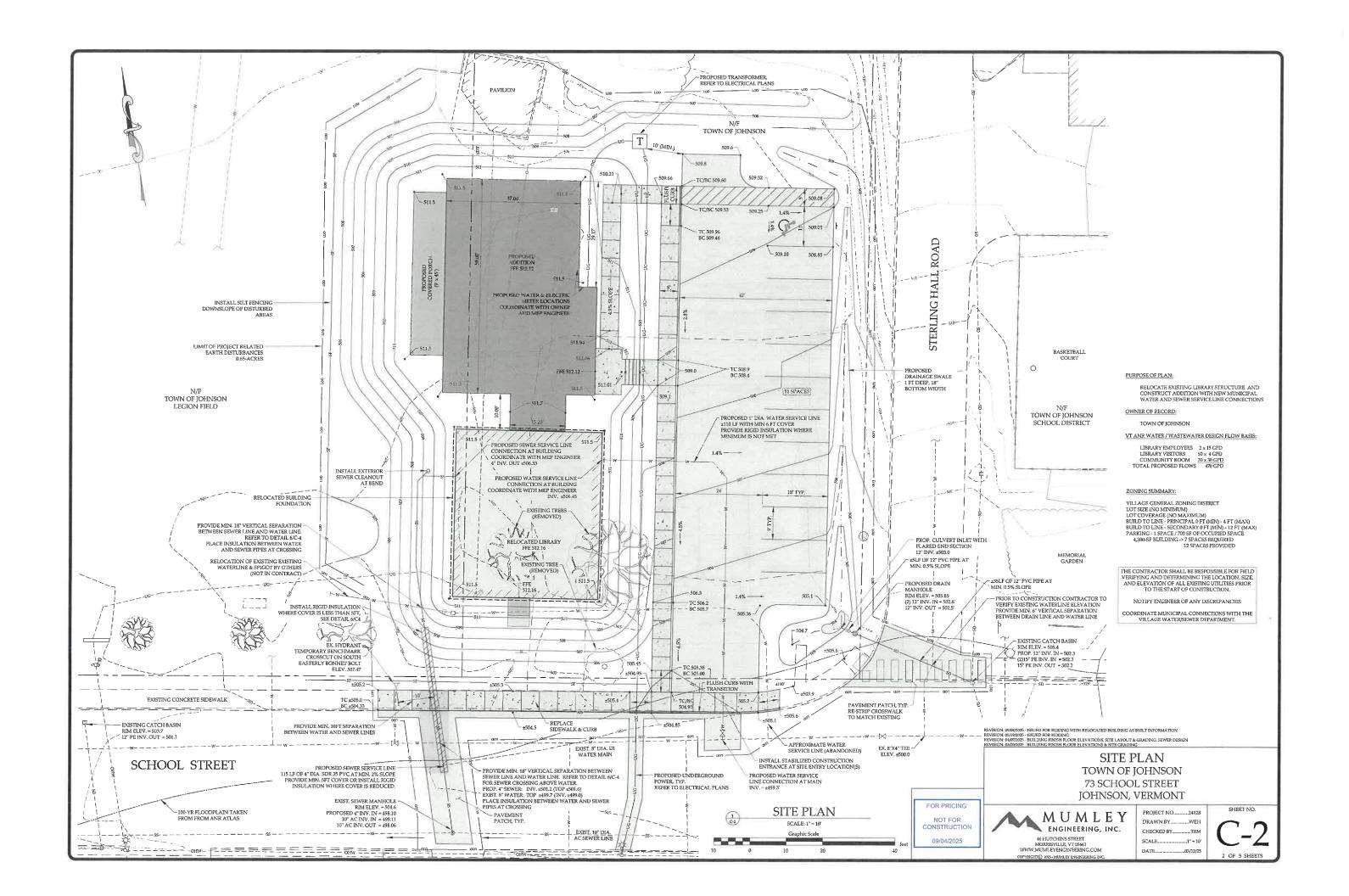
Proposal Requirements and Examination of Work to be Performed

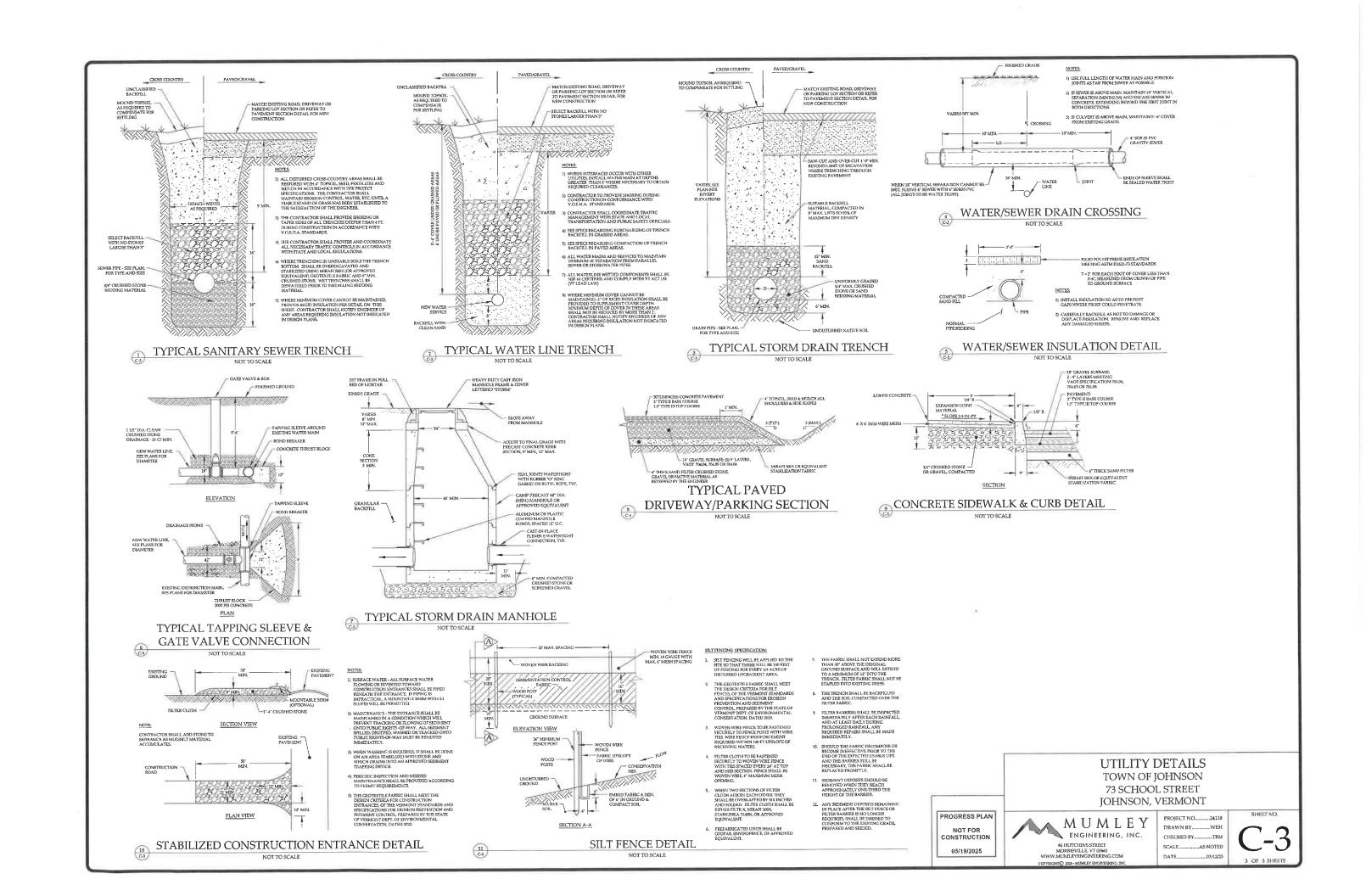
The contractor is required to thoroughly examine the request for proposal requirements and the work contemplated, and it will be assumed that the contractor has investigated and is satisfied as to the requirements. It is mutually agreed that submission of a request for proposal shall be considered evidence that the contractor has made such examination.

Confidentiality:

Please be advised that all notifications, releases, and addendums associated with this RFP will be posted on-line at townofjohnson.com and copies provided at the Town Clerk's Office where the original solicitation resides. The Town may not attempt to contact consultants with updated information. It is the responsibility of each consultant to provide an email contact and to periodically check their email and the town website for notifications, releases and addendums associated with the RFP. The Town encourages proposals from economically disadvantaged businesses enterprises and consultants shall comply with all federal funding requirements. The Town reserves the right to reject any and all submittals and to make a consultant selection based on the needs and requirements of the Town and may select the consultant that it feels will provide the best value to the Town.







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Title: General Notes

NES PROJECT NO: 25016 DATE: 05/30/2025 DESIGNED BY: AD/BD

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CONCRETE REINFORCEMENT:

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SUBMITTALS: SEE STRUCTURAL SUBMITTALS NOTES

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POST INSTALLED DOWELS: REBAR: ASTM A-615, GRADE 60;

AITHE TIME CONCRETE B PLACED, ALL REINFORCEMENT SHALL BE FREE FROM CIRT, MUD. ICE, RUST, SCALE, LODGE MILL SCALE, PAINT AND ALL OTHER COATINGS WHEN MAY DESTROY OR REDUCE BOND BETWEEN STEEL AND CONCRETE. CONCRETE COVER AROUND REINFORCING (MINIMUM):
CONCRETE FORMED AGAINST THE EARTH: 3 INCHES
SLASS ON FILL: 1/2 INCHES
WALLS, COLUMNS, BEAMS AND INTERIOR SLABS: 11/2 INCHES

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PLACE MOD COMPACTIONDALINE FILL HISTERIALS IN EVEN LIFTS NOT EXCEEDING 8 INCHES FOR HAND OPERATED VIBRATORY PLATE, COMPACTION REQUIREMENT OR 12" FOR MECHANIZED VIBRATORY PLATE, COMPACTION REQUIREMENT PLATE, COMPACTION RE REMOVE TOPSOIL AND ORGANICS AND PROVIDE 12 INCHES, MINIMUM STRUCTURAL FILL UNDER ALL SLABS. FINE GRADE TOP SLAB-ON-GRADE AGGREGATE TO THE FOLLOWING TOLERANCES, +0" TO -34".

INSIDE THE STRUCTURE FOOTPRINTINGELOW STRUCTURES. STRUCTURAL FILL COMPACTED TO 95% MODIFED PROCESSOR RENSITY. TEST FOR COMPACTEN PER THE FIELD GUALITY CONTROL SCHEDULE. TEST IN ACCORDANCE WITH ASTEM 8698.

THE COMBOTION GESION ASSURED. THE PERFORMANCE WERE THE PERFORMANCE OF COPERATION OF THE COMBOTION GESION ASSURED. THE COPERATION CONTRIBUTION OF THE PERFORMANCE OF T BAGORFIL EACH SIDE OF FOUNDATION WALLS EVEN.Y. WITH NO GREATER THAN 18 VERTICAL INCHES DIFFERENCE ENERSERPREACH SIDE OF WALL. FRALLA ARE DESIGNED FOR SEATH RETRANKEE, DON'D SACKLLL DIFFERENTALLY WITH ALL MEANS OF SERONS STREAMS. AROUND THE STRUCTURE PERMICIES, GRANULAR BACKFLL COMPACTED TO 90% MODINED PROCTOR DRASHITY EXCEPT COMPACT TO 95% MODIED PROCTOR DENSITY MURE SIDEMALES, APMENTATINATION STRUCTURES, ISSUE NATIONAL TO STRUCTURES, AND STRUCTUR

FORMATION WILLIAM TO SHE WAS A THE WAS FIN WITH BE FELL WITH BE FELL NOT UNLESS NOTED OTHERWISE. BUT LANGES TOGETHER THAT AND SECURE IN PLACE UNIT BACKELL OR PERMANENT CONSTRUCTION BUT LANGES HALL WAS BULL WITHOUT PRIOR PLACE AND CONSTRUCTED.

WHERE CALLED FOR, USE UNFACED POLYISOCYANURATE INSULATION. SECURE INSULATION TO AVOID DISPLACEMENT DURING CONSTRUCTION ACTIVITIES ON HORIZONTAL APPLICATIONS, BUTT JOINTS TIGHTLY AND TAPE JOINTS

VAPOR BARRIER:

PLACE TS MIL VAPOR BARRIER UNDER ENTIRE FLOOR SLAB AT LOCATION INDICATED INSTALL VAPOR BARRIER IN ACCORDANCE ASTM E1643.

UNROLL WAPOR BARRIER WITH THE LONGEST DIMENSION PARALLEL WITH THE DRECTION OF THE CONCRETE POSSIBLE.
POSSIBLE.

SLAB CRACK CONTROL JONTS ARE SHOWN. CONTRACTOR MAY CHOOSE TO CREATE A CONSTRUCTION LOINT AT CONTROL JOINT LOCKTURION SIGNED FOR MAINT OF SLAB THAT CAN BE PROPERLY CONSTRUCTED. ALLON S DAYS BETWEEN ADJACENT POURS.

DO NOT APPLY FLOOR SEALER HARDENER TO AREAS OF CONCRETE THAT WILL RECEIVE FLOOR FINISH

SLAB PENETRATIONS NOT SHOWN, CONTRACTOR TO COORDINATE CONSTRUCTION WITH ARCHITECTURAL AND MEP PLANS.

CONTROL JOINT LAYOUT: ALEN CONTROL JOINTS WITH SLAB INTERRUPTIONS AS SHOWN, WHERE NOT DIMENSIONED, SPACE CONTROL JOINTS EQUALLY BETWEEN ALENED CONTROL JOINTS.

FINE GRADING OF THE SLAB BASE IS CRITICAL TO SLAB PERFORMANCE AND MINIMIZATION OF CRACKS. SEE EXCAVATION AND BACKFILL NOTES

SEAL CONTROL JOINTS AS INDICATED WITH SIKADUR 51 SL BY SIKA CORPORATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

PROJUCE ONE SEARCE STEAMER FOR AN ADVISOR TO THE TOTAL T

EXTEND VAPOR BASIGHEN OF THE REBARDER FOR THE ASIA, ARE PREVIOUSALE. TENBRUSHET IN THE TOP OF THE ALE OTHERWISE IN A TA FORM ACCEPTABLE TO THE STRUCTURAL RELIGIERS FOR IBS WHERE ROBSTRUCTED BY MEDIBURISHES, SOLCH SE DOWNER, WATHERSTORS, OR ANY OTHER SITE COMPITION REQUIREMENT EASY, TEMBRANICH OF THE MACHINERS. OVERLAP JOINTS 6 INCHES AND SEAL WITH MANUFACTURER'S SEAM TAPE APPLY SEAM TAPE/CRETE CLAW TO A CLEAN AND DRY VAPOR BARRIER USE REINFORCING BAR SUPPORTS WITH BASE SECTIONS THAT ELMINATE OR MINIMIZE THE POTENTIAL FOR PUNCTURE OF THE VAPOR BARRIER.

ALL PENETRATIONS (INCLUDING PIPES) PER MANUFACTURER'S INSTRUCTIONS.

CONCRETE
CAST IN PLACE CONCRETE WORK IS TO BE PERFORMED IN ACCORDANCE WITH ACI 318.

CONCRETE MUST BE SOURCED FROM A RECOGNIZED CONCRETE IS PROHIBITED SUBMITTALS: SEE STRUCTURAL SUBMITTALS NOTES

FOUNDATION LAYOUT IS BY THE CONTRACTOR

OWNER SHALL ENGAGE A QUALIFED AND EXPERENCED TESTING AND INSPECTION AGENCY FOR THE PERFORMANCE OF CONSTRUCTION FIELD TESTING CTOR SHALL SCHEDULE THE TESTING AGENCY IN A

AGGREGATES NESTU AGGREGATE COMPACTION TESTING IN ACCORDANCE WITH ASTM D1557.

TESTING CECULION'S TREAT FOR THE STORY BLOST HET FOR ENERY 20 FEET OF WALL BELOW STRUCTHES MIAL FOOTNESS. ONE TEST FOR EACH LIFT TO ENERY 20 FEET OF WALL BELOW STRUCTHES BOARTED FOOTNESS. ONE TEST FOR EACH LIFT WITH A MANIMUM OF 3 FEST STORY SHOWS TO STRUCTHES TO STRUCTHES THE STORY STRUCTHES TO STRUCTH F COMPACTION TESTING DOES NOT MEET SPECIFICATION AND ADDITIONAL TESTING IS REQUIRED, THE DAWIER MAY CHARGE CONTRACTOR FOR THE ADDITIONAL TESTING. CONCRETE: CONCRETE TESTING IN ACCORDANCE WITH ASTMC172

TESTING FREQUENCY: ONE TEST FOR EACH 100 CY FOR EACH DESIGN MIX PER DAY ONE TEST FOR EACH 1500 SF OF SLAB FOR EACH DESIGN MIX, PER DAY QUALITY CONTROL TESTING SCHEDULE:
SAMPLING FRESH?

ISOLATE SLABS ON GRADE FROM VERTICAL SURFACES WITH 1/2" EXPANSION JOINT FILLER OR RIGID INSULATION FORM RELEASE AGENT, WATER BASED PRODUCT MANUFACTURED FOR THIS PURPOSE. DO NOT APPLY OR YOVERSPRAY RELEASE AGENT ON REBAR, IF RELEASE AGENT IS ON REBAR, RELATED WORK WILL BE REJECTED AND RECONSTRUCTED AT TRIMMERES DISCRETION. WALL JOINTS INDICATED ON PLAN OR FOLNDATION ELEVATIONS CAN BE CONTROL JOINTS OR CONSTRUCTION JOINTS AT CONTRACTORS OPTION, BASED UPON MAXIMUM REASONABLE SECTION LENGTH OR DAILY CONCRET PLACEMENT

8LUMP: 2-4" BEFORE ADDITION OF ADMIXTURES AND 6-8" AFTER THE ADDITION OF ADMIXTURES

CONCRETE MICTURE SPECIFICATIONS:
PROVIDE COMPRESSIVE STRENGTH AS INDICATED ON THE PLANS

EXTERIOR CONCRETE IS TO BE AIR ENTRAINED USING ADMIXTURES: 4% - 6%, ASTM C260

EXECUTION CONCERNE IN ALL AMBIESTED ACCORDING WITH AUTODECENTION TAYABLES OF PRESCRIPTION CONCERNED AND CONCERNE

PROTECT PLACED AND FINISHED CONCRETE FROM INJURY, PREMATURE DRYING, MECHANICAL DAMAGE, AND SUPPORT PRESSURE ON WALLS UNTIL FULLY CURED AND SUPPORTING RESTREAMES, UNE NILLY CURED AND SUPPORTING REMESTES ARE IN PLACE. BREAK OFF ALL FORM TIES. ON SURFACES TO REMAIN EXPOSED, PARGE HOLES SMOOTH FOR AN ATTRACTIVE FINSH.

COLD JOINTS IN A SINGLE POUR ARE PROHIBITED. PROVIDE CONSTRUCTION JOINTS DETAILED ON THE DRAWINGS.

PROVIDE 5'- O' MINIMUM BOTTOM OF FOOTING DEPTH IN ALL LOCATIONS.

FOUNDATION WALL AND SLAB PENETRATIONS NOT SHOWN. CONTRACTOR TO COORDINATE CONSTRUCTION WITH ARCHITECTURAL AND MEP PLANS.

FOR EACH TEST, FOUR CYLINDERS WILL BE TAKEN, TEST CYLINDERS AS FOLLOWS:

(2) TOWN'S TEST OWN CYLINDERS

(2) DANN'S TEST TWO CYLINDERS

(3) TOWN'S TEST TWO CYLINDERS

(3) THE THE TEST SPAIL, TO MEET DESIGN PARAMETERS, HOLD THE REMAINING CYDINS.

CONSTRUCTION FOR PHASE 3

UNITAGES IN SPECIAL INSPECTIVARE, AS APPLICABLE
ONLINEST, FOR EACH TYPE OF UNIT USED. TEST ACCORDING TO ASTILL CIA) (COMPRESSIVE
STREAMENT OF BACH MAY PROVIDED, TEST ACCORDING TO ASTIAL CIU ID
GROUT TEST. FOR BACH MAY PROVIDED. TEST ACCORDING TO ASTIAL CIU ID

UNTESTED CYLINDERS CAN BE DISCARDED AFTER SUCCESSFUL TESTING

ROUGH CARPENTRY

SLAB CURING, MODEY OR AUGMENT THESE METHODS, OR ADOPT ADDITIONAL PROTECTIVE MEASURES, WITH REQUIRED TO CONDERGAST FOR CHANGES IN HUMBITY, TEMPERATURE, WIND, OR OTHER CONDITIONS, MANUAR CURING PERIOD SHALL BE? DAYS.

WHERE APPLICABLE, SLOPE FLOORS UNIFORMLY TO DRAIN(S)

WHERE LEVEL FLOORS ARE SPECIFIED, PROVIDE A FLOOR FLATNESS EXCEEDING F. = 25. F. = 20 FOR GROUND FLOOR. ELEVATED SLASS SHALL HAVE A FLOOR FLAVES OF FF. = 2.

PROVIDE FINISH AS SHOWN ON THE PLANS

SLABS ON GRADE.

BUREN OF ALCOR SLAB CONSTRUCTION, THE DESIGN TEAM SHALL MEET TO DISCUSS FLOOR SLAB PROPERTY OF STATEMENT AND HAVE THE ARRENT THRISH. ETC. CONTRACTOR TO CALL FOR WEITING AT LEAST Y WREENS PROPERT OS SLAB CONSTRUCTION.

FORWWORK FINISHES PER ACI 347, AS APPLICABLE:
FOUNDATION WALLS: CLASS C
RETAINNG WALLS: CLASS C
FOOTINGS:
CLASS D

ERDIRECTED: UNABLE IN ACCOUNTING SEASOND D-2559

VICTOR OF THE SEASOND SEASOND SEASOND D-2559

INCLUMENTED STRAND LUMBER, AS FRANDO R RIN BOARDS, L. LAMINATED STRAND LUMBER AS FRANDO R RIN BOARDS, L. LAMINATED STRAND LUMBER AS FRANDO R RIN BOARDS, L. LAGUE STRAND LUMBER AS FRANDO R RIN BOARDS, L. LAGUE SEASOND SEASON

with England a slake of seek, white other other work of the seek of the state of th

AFTER THE WATER CURING PROCESS, APPLY FLOOR SEALERMARDENER INDICATED ON THE DRAWINGS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

Town Of Johnson 293 Lower Main St W, Johnson, VT 05656

INSTALL SHEATHING WITH LONG EDGE PERPENDICULAR TO FRAMING, EDGE JOINTS EVENLY STAGGERED WIND SECTION SEE SEE ASSOCIATION SECTION DANGEMENTS AND ASSOCIATION SECTION SEED AND SECTION S SHEATHAGT ASTREMS
TOOR SUBSTOOR ADHESIVE, SURINGSHAW NALS WITH 6" EDGE FASTENING AND 12" FELLD
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NOT, ASTREMS SHAWN ANLS WITH 6" EDGE FASTENING AND 12" FELLD PASTENING LIVIO. SUGERIER THEREPO CONSOLDECK IS PREMIUM LIMININ-SELOTTE SEALEN, HARDENER AND DENSIFER BY THEREPO CONSOLDECK IS PREMIUM SEALEN CLANS SHARK ACRIVIC CHARGE AND SEALEN COMPOUND MEETING ASTINCT ISS TYPE I.CANSS AND MORPE SAL 25-50%, SOLDS BY SECCREM.

Johnson Public Library Relocation & Addition

Corner of School St and George Hill Rd, Johnson, VT

TOP-RINGUATED VIALS SHEATHANG THERE REVORMEREDE VORGNEETS VORGUES OF SERVICE OF SERVICE

LICHTGGE REAMING CONTECTION ACCESSORIES
INDIVIDUE EN ENGEN STRONG THE OR PROPORTO EQUIVALENT
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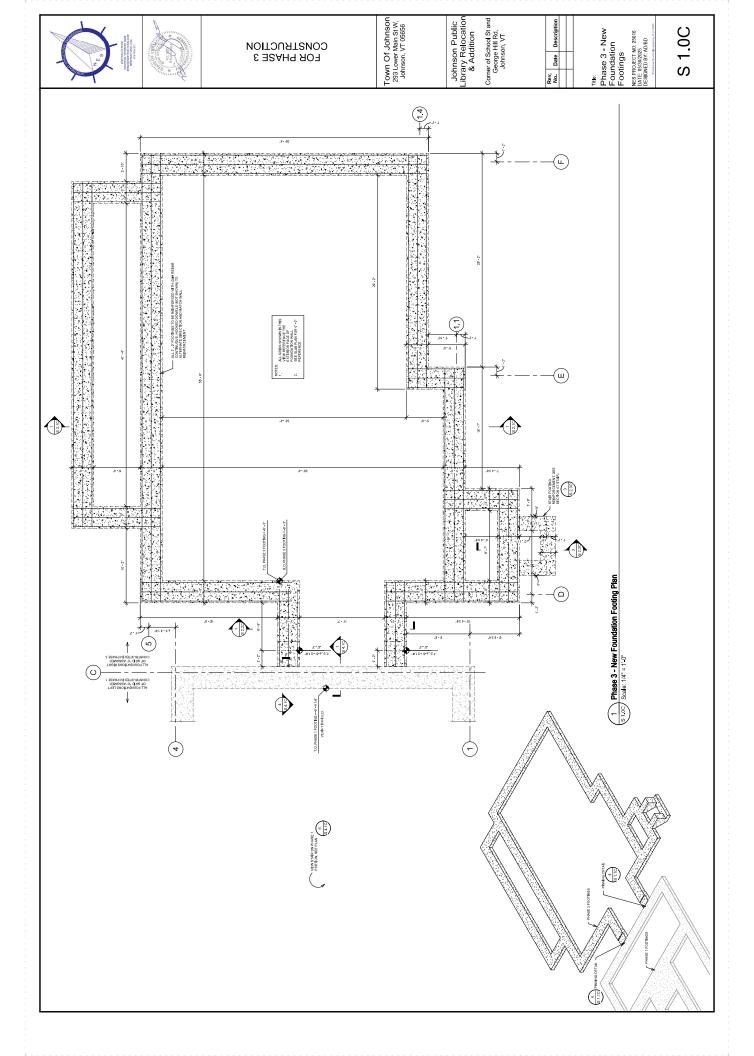
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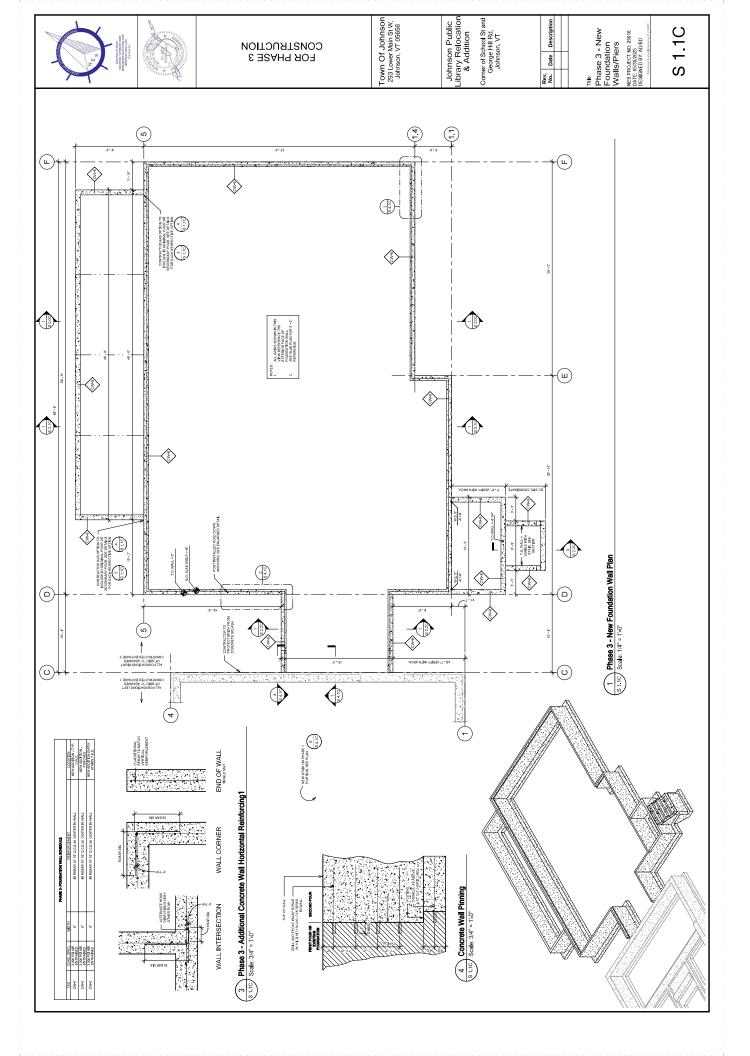
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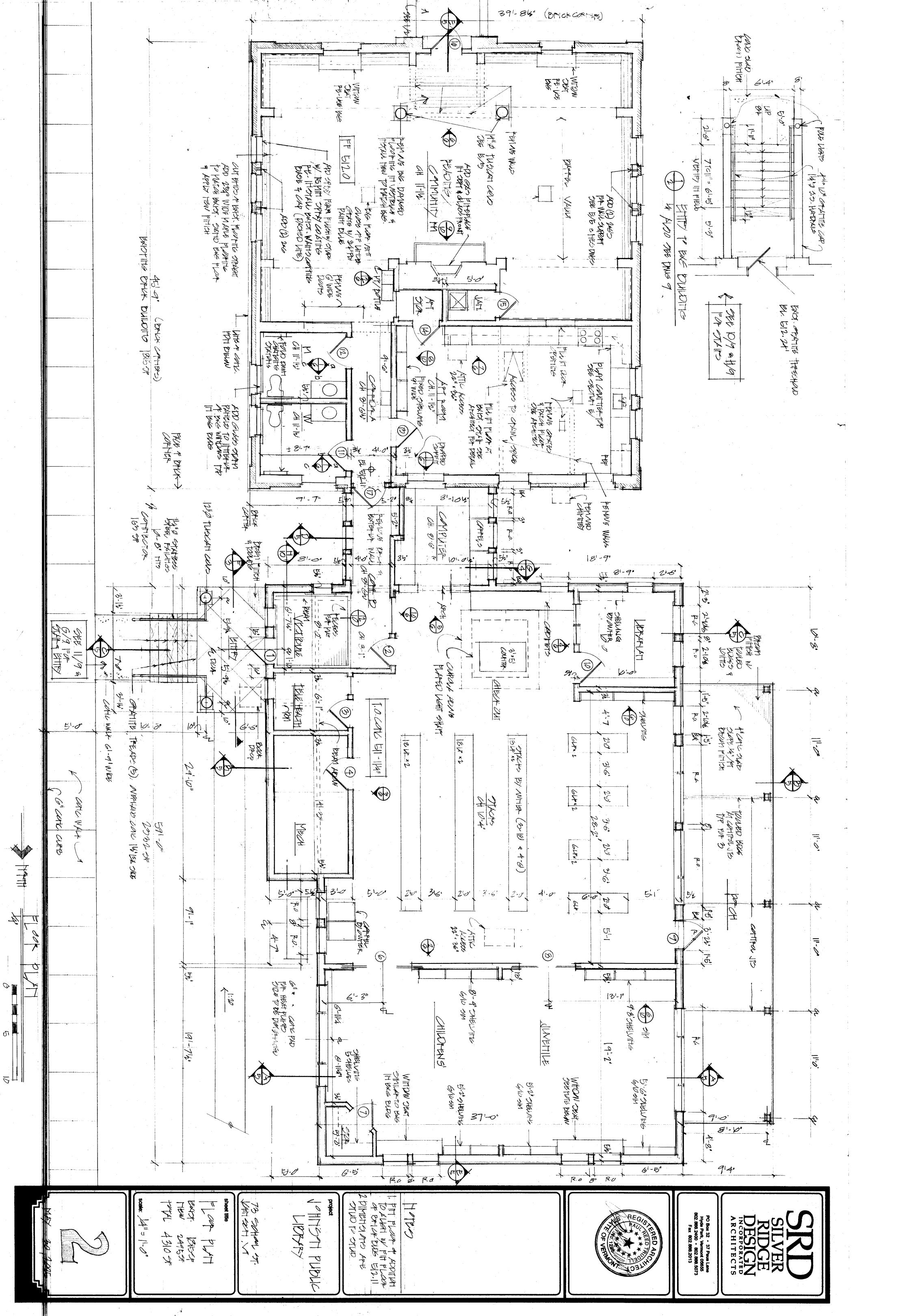
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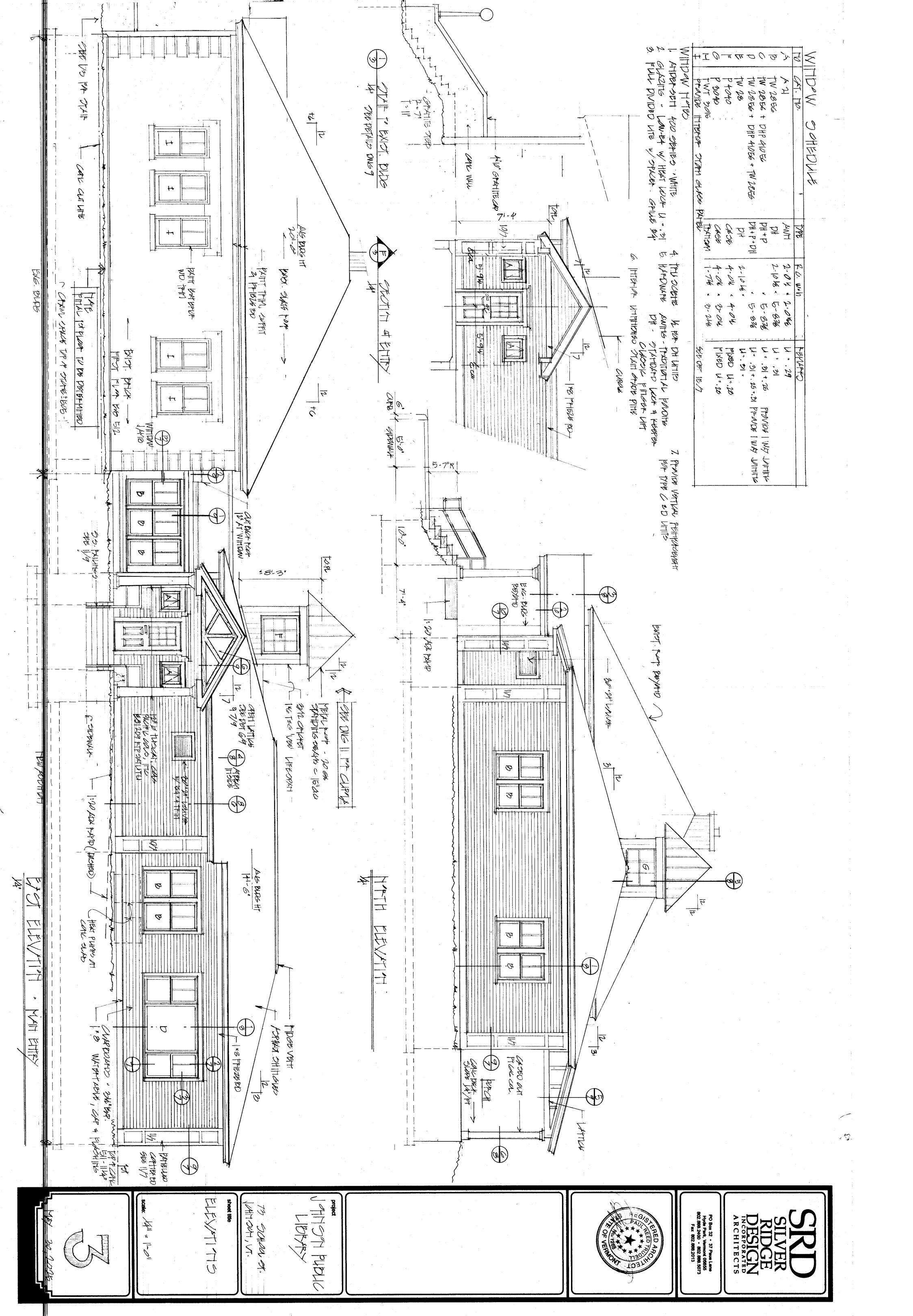
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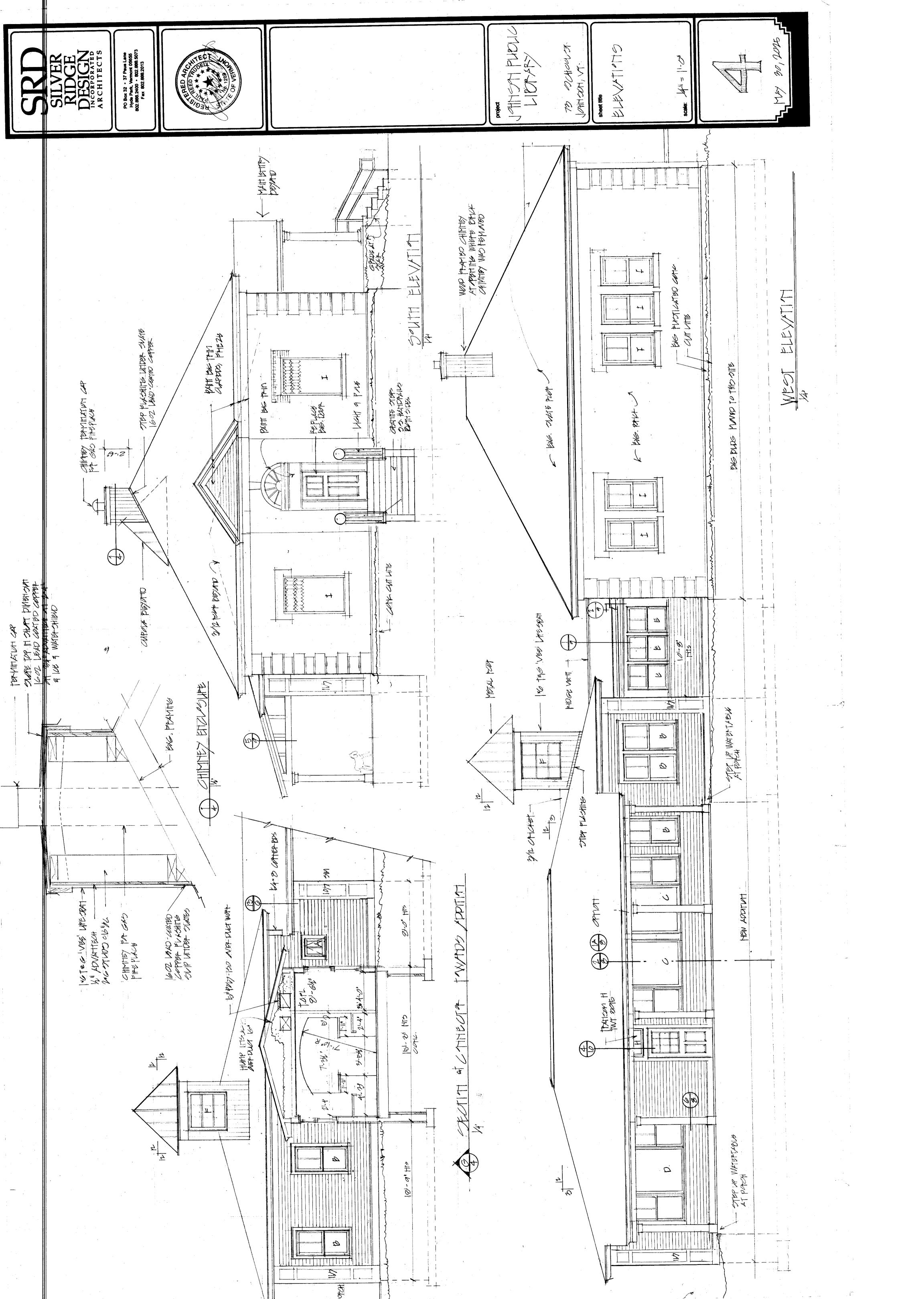
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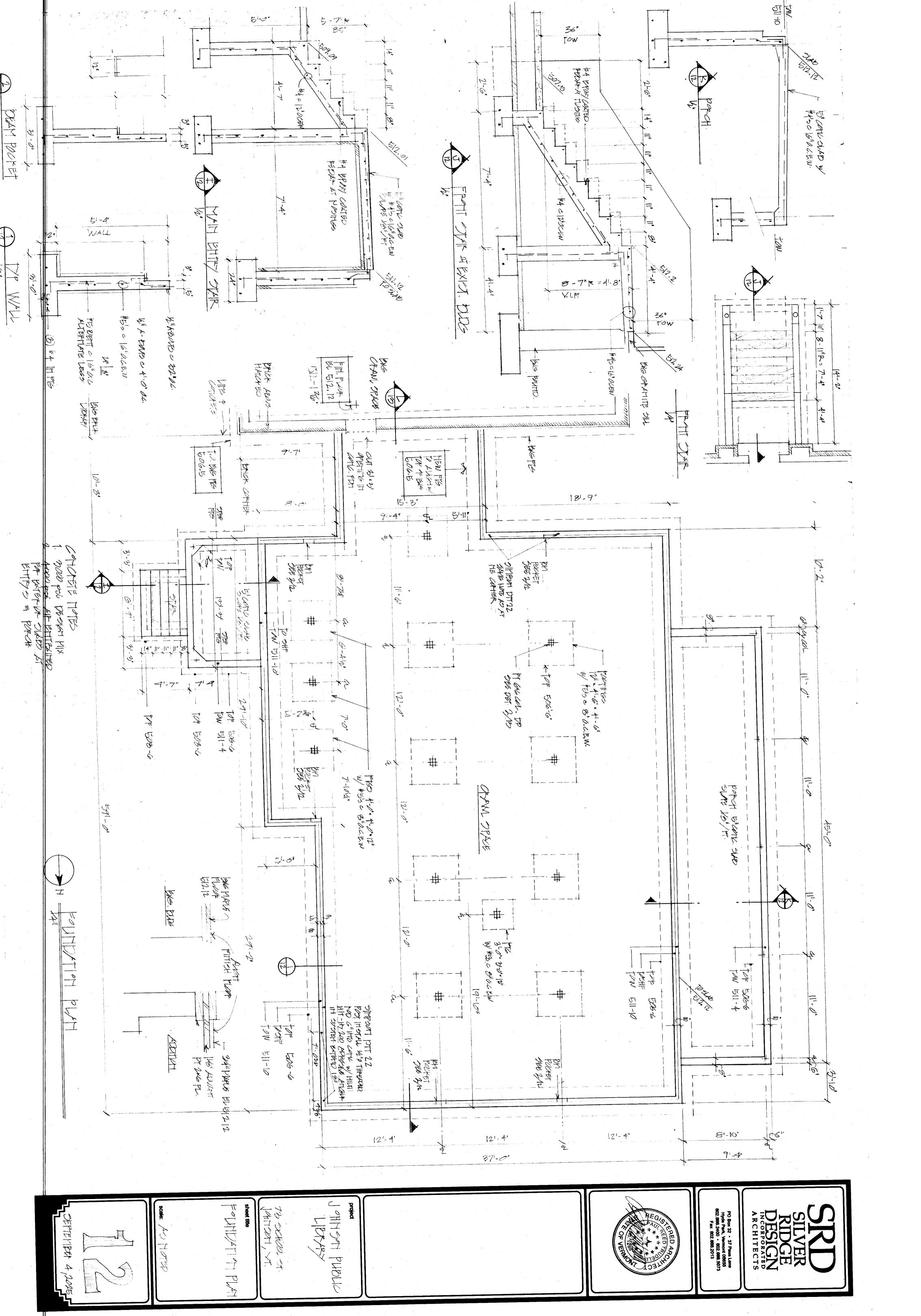


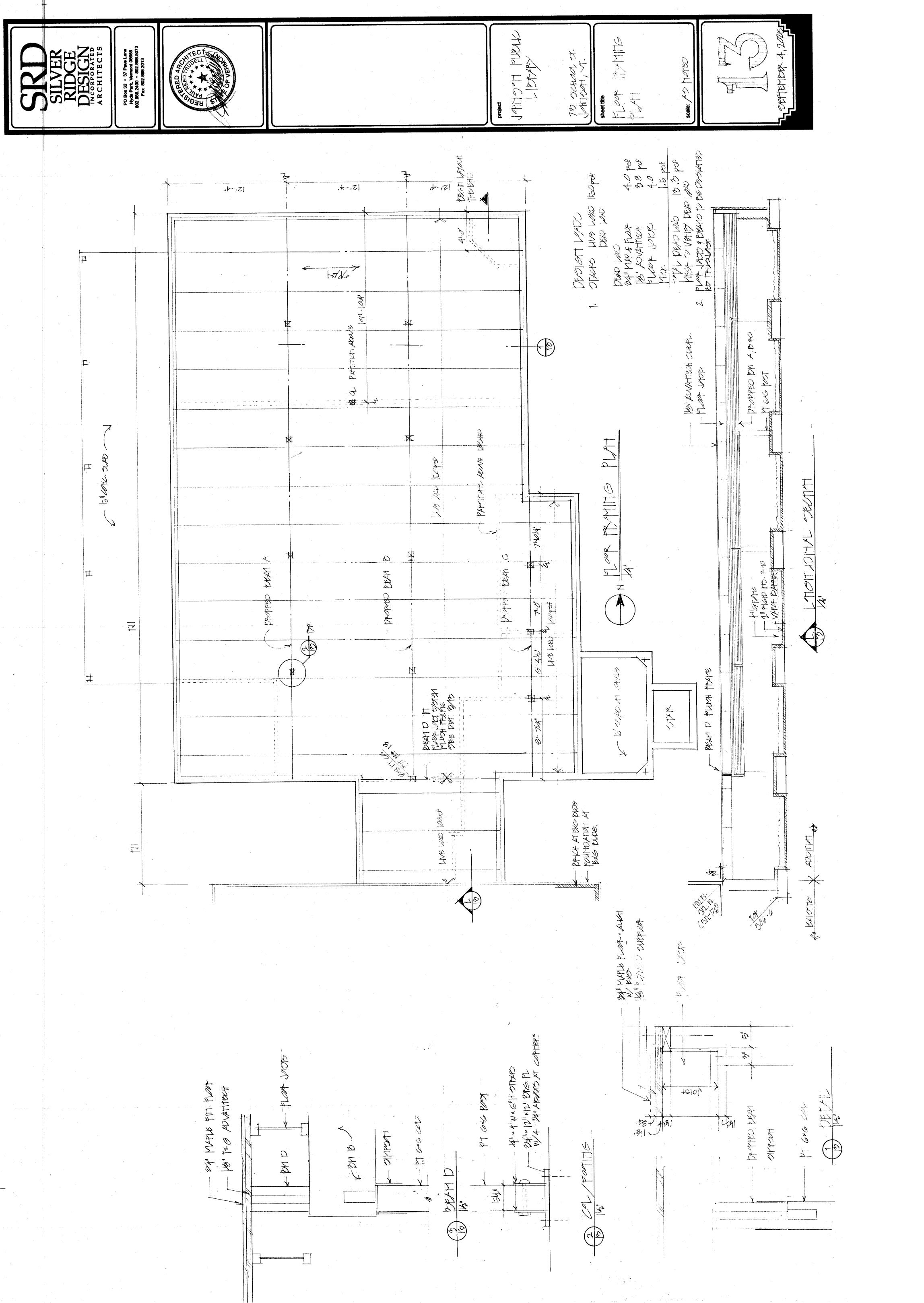


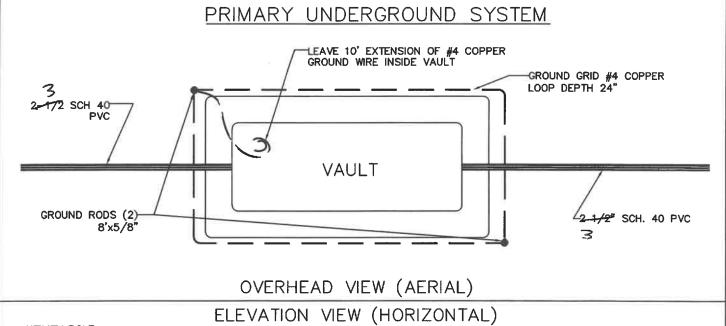












UTILITY POLE-RILEY BRACKET Cicling fact With both side In the 5-1/2" FROM POLE SINGLE PHASE #4 SOLID OPPER TRANSFORMER #4 STRANDED COPPER CONNECTION 10' Value VEC REQUIRES THAT THE TOP OF THE COIL VAULT IS EXPOSED 4" ABOVE FINISH GRADE 2-1/2" SCH. 40 PVC 3" 90° LONG SWEEP 2472", " DRAIN PIPE TO DAYLIGHT GROUND RODS (2) 8'x5/8"— SHALL BE FLUSH OR BELOW GROUND LEVEL PER NEC CODE TO BE OUTSIDE ON OPPOSITE 12-14" DRAINAGE ROCK EXTEND CONDUIT 6"

NOTES:

VAULT SHALL BE INSTALLED IN WELL TAMPED OR UNDISTURBED EARTH.

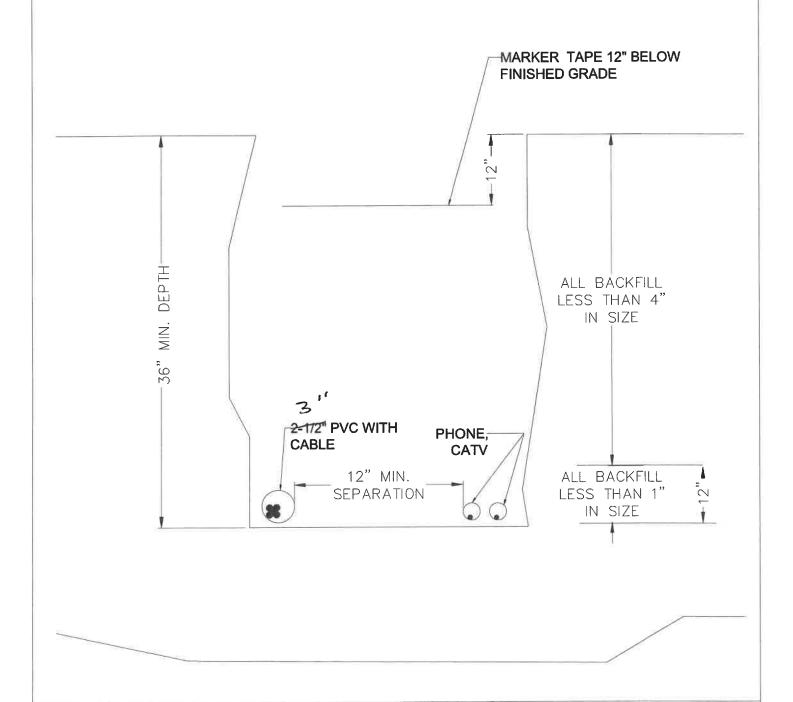
CORNERS OF THE VAULT

- ALL AREAS, SECTIONALIZING CABINET MAY BE INSTALLED ABOVE WATER TABLE WITH SUITABLE BERM CONSTRUCTED WITH SLOPE NOT EXCEEDING 30°
- LEAVE 10' EXTENSION OF #4 COPPER GROUND WIRE INSIDE VAULT. both sides 3.
- VAULTS SHALL BE HIGHLINE MODEL #HL-48 OR NORDIC GS-37-43-32A-CE-2. COVERS TO BE EQUIPPED WITH PENTA-HEAD BOLTS
- GRADUALLY TAPER THE DITCH BOTTOM UPWARDS TO THE EDGE OF THE VAULT. NOTE: NO 90° SWEEPS INTO THE VAULT.
- FOR INSTALLATIONS WHERE THE TAKEOFF POLE IS LOWER IN ELEVATION THAN ANY VAULTS TO BE INSTALLED, THE MEMBER WILL BE REQUIRED TO FURNISH AND INSTALL A VAULT AT THE BOTTOM OF THE TAKEOFF POLE FOR ADEQUATE DRAINAGE

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		,						JOHNSON, VT			
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TRENCHING & CONDUIT DEPTHS FOR PRIMARY EXTENSIONS

NOTE: ALL BACKFILL MATERIAL MUST BE OF A UNTREATED NATURE. NO SALT OR OTHER CHEMICALS ARE ALLOWED NO FROZEN BACKFILL CAN BE USED.



DES: RJP DRN: RJP

DATE: 07/10/2017

SCALE: NONE

DWG. NO.

CKD:

REV DATE

REVISION DESCRIPTION

DRN

CKD

VERMONT ELECTRIC COOPERATIVE INC.

JOHNSON, VT

TRENCHING & CONDUIT DEPTHS
FOR PRIMARY EXTENSIONS

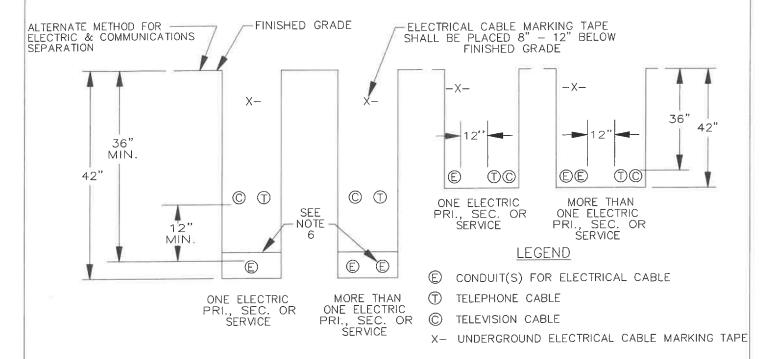
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REV/1

TYPICAL TRENCH CROSS SECTION U.G. CABLE IN CONDUIT

6,4

7



NOTES:

- 1. ALL TRENCHES AND ELECTRICAL CONDUIT(S) REQUIRE APPROVAL BY A VEC INSPECTOR BEFORE BACKFILLING.
 2. ALL TRENCHES SHALL BE 18 INCH MINIMUM WIDTH. THE CONDUIT SHALL BE EMBEDDED IN UNFROZEN SAND
 OR FINE GRAVEL, THAT WILL PASS A 1 INCH MESH. THIS MATERIAL SHALL BE A MINIMUM OF 4 INCHES THICK
 ON ALL SIDES OF THE CONDUIT. THE REMAINDER OF THE BACKFILL SHALL BE CLEAN, AND, SHALL NOT CONTAIN ROCKS LARGER THAN 4 INCHES IN ANY DIMENSION. CAREFULLY COMPACT THE FULL DEPTH OF BACKFILL, UNDER TRAVELLED WAYS AND PARKING LOTS. THE MINIMUM DEPTH, UNDER A HIGHWAY, SHALL BE 48 INCHES RATHER THAN 36 INCHES. MOUNDING THE TRENCH, TO PROVIDE THE REQUIRED DEPTH, IS NOT ALLOWED.
- 3. CONDUIT SHALL BE ENCASED IN A 4 INCH ENVELOPE OF CONCRETE UNDER THE FOLLOWING CONDITIONS:
 - A) BROOK CROSSINGS.
 - B) CROSSINGS OF WATER, SEWER, AND GAS PIPELINES. CROSSINGS SHALL BE DONE AT NINETY DEGREES IF POSSIBLE. NORMALLY, THE ELECTRICAL CONDUIT SHALL BE A MINIMUM OF 18 INCHES ABOVE THE PIPE. CAREFULLY COMPACT THE FILL BELOW THE ELECTRICAL CONDUIT. CONCRETE ENCASEMENT IS REQUIRED FOR 10 FEET ON EACH SIDE OF THE PIPE.

 C) UNDER THE TRAVELLED WAY OF CITY STREETS, AND, UNDER TOWN HIGHWAYS, IF REQUIRED BY THE
 - TOWN. A PIPE SLEEVE, SURROUNDING THE CONDUIT, MAY BE SUBSTITUTED.
- D) CONDUITS WITHIN 20 FEET OF TANKS CONTAINING FUELS, OR SOLVENTS. THESE TANKS MAY BE ABOVE OR BELOW GRADE. THIS REQUIREMENT DOES NOT APPLY TO URD SERVICES.

 4. TRENCHES SHOULD BE LOCATED 10 FEET FROM ANY STRUCTURE, UNLESS THE CONDUIT IS GOING TO THE
- STRUCTURE. CONTACT VEC IF CLOSER APPROACHES ARE NECESSARY.
- 5. TRENCHES SHOULD BE LOCATED 10 FEET FROM ANY WATER, SEWER, OR GAS PIPELINE THAT PARALLELS THE CONDUIT. CONTACT VEC IF CLOSER APPROACHES ARE NECESSARY.
- 6. COMMUNICATIONS CABLES AND CONDUITS MAY BE LOCATED IN THE SAME TRENCH WITH ELECTRIC CABLES OR CONDUITS. A MINIMUM HORIZONTAL OR VERTICAL SEPARATION OF 12 INCHES IS REQUIRED. ELECTRICAL CONDUITS SHALL BE SEPARATED BY 4 INCHES. THESE DISTANCES ARE MEASURED SURFACE-TO-SURFACE, NOT CENTER-TO-CENTER.
- 7. DEPTHS SHALLOWER THAN 36 INCHES MAY BE ALLOWED WHERE OBSTRUCTIONS SUCH AS LEDGE ARE ENCOUNTERED. ANY PORTION OF THE CONDUIT SHALLOWER THAN 24 INCHES SHALL BE COVERED WITH A MINIMUM 2 INCH CONCRETE CAP. SEE THE UTILITY FOR DEPTHS SHALLOWER THAN 12 INCHES.

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CLEARANCE AREA AROUND A PAD MOUNT TRANSFORMER OR VAULT

Many buildings are located in developments, or on sites with underground electrical utilities. While the underground services eliminate unattractive overhead pole lines, cabling and transformers, the installation of utility company transformers presents challenges of a different sort.

Utility company transformers are large, generally green in color, and can range from a small box (3'W X 3'D X 2'H) in a residential neighborhood, to a large enclosure with the oil-filled cooling fins (7'W X 7'D X 6'H) on a large pre-concrete base. Often for aesthetic reasons the transformers are located remote from the building, but due to the costs associated with the secondary conductors, a transformer may be mounted close to a building.

This article will define some of the requirements for clearances around a transformer, as well requirements for protecting a transformer from vehicular traffic.

Adjacent to buildings, transformers must generally be located in accordance with the following requirements. First, a transformer must be installed with the front (doors) facing away from buildings, with no balconies or overhangs above. The transformer must be accessible to line trucks (size and weight similar to a cement truck), for maintenance or replacement. Generally, a transformer located near a building requires a 4ft clearance from the building vertical surfaces, assuming no windows from grade to 18'. The sides of the transformer must be clear of all objects (including landscaping) for 4ft, and the transformer should be located 10ft horizontally from doors, windows or fire hydrants. The front (door side) of the transformer shall have a clearance of 10ft so that line crews can safely perform maintenance or repairs on the equipment. This required clearances includes landscaping. When encountering landscaping during emergency repairs, the utility can remove the landscaping (not very gently) or leave and await notification that the offending vegetation has been removed. During routine maintenance, the utility will not attempt to work on the transformer until the landscaping has been removed.



ACCEPTABLE







NOT ACCEPTABLE

NOT ACCEPTABLE



REV	DATE	REVISION DESCRIPTION	DRN	CKD



VERMONT ELECTRIC COOPERATIVE INC.

JOHNSON, VT

CLEARANCE AREA AROUND A
PAD MOUNT TRANSFORMER OR VAULT

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