

# DESIGN STUDIES NOT FOR CONSTRUCTION

THESE DRAWINGS ARE HAVE BEEN DEVELOPED FOR ZONING PERMIT AND DESIGN REVIEW ONLY. THEY DO NOT DIRECTLY ADDRESS LIFE SAFETY, ENERGY, EXCAVATION, OR HEALTH REQUIREMENTS.

THESE DRAWING DO NOT DIRECTLY ADDRESS STRUCTURAL REQUIREMENTS, MECHANICAL/HVAC REQUIREMENTS, OR ELECTRICAL REQUIREMENTS.

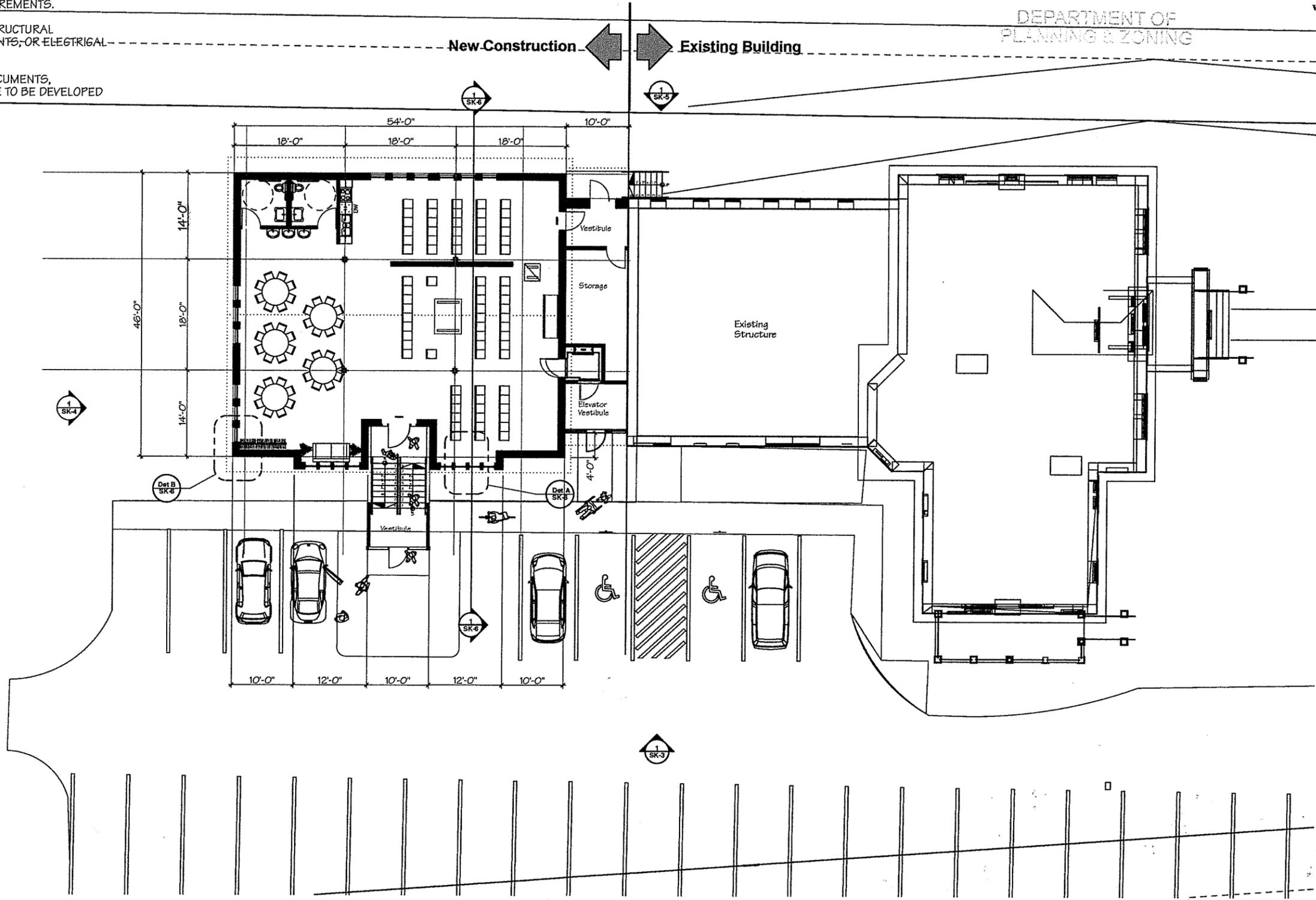
FULL DESIGN DEVELOPMENT, CONSTRUCTION DOCUMENTS, TECHNICAL DRAWINGS AND SPECIFICATIONS ARE TO BE DEVELOPED PRIOR TO CONSTRUCTION PERMIT APPLICATION.

RECEIVED

OCT 06 2016

**Wolfstein**  
ARCHITECTURE  
100 Church Street  
Burlington, Vermont 05401  
802-864-8334  
wastudio.com

DEPARTMENT OF  
PLANNING & ZONING



EW/2016/1610 - Chabad Synagogue/Chabad Meeting - 2016 - Study/MACTD-Rev06.rvt

**Chabad  
Expansion  
Project**

**Lubavitch  
of  
Vermont**

57 South William Street  
Burlington, Vermont  
05401



PROJECT NO: **1610**

DRAWN BY: EW

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

DATE: Thursday, October 6, 2016

SHEET TITLE

**UPPER LEVEL**

**SK-1**

Version N Rev. 6 - Issued for Zoning

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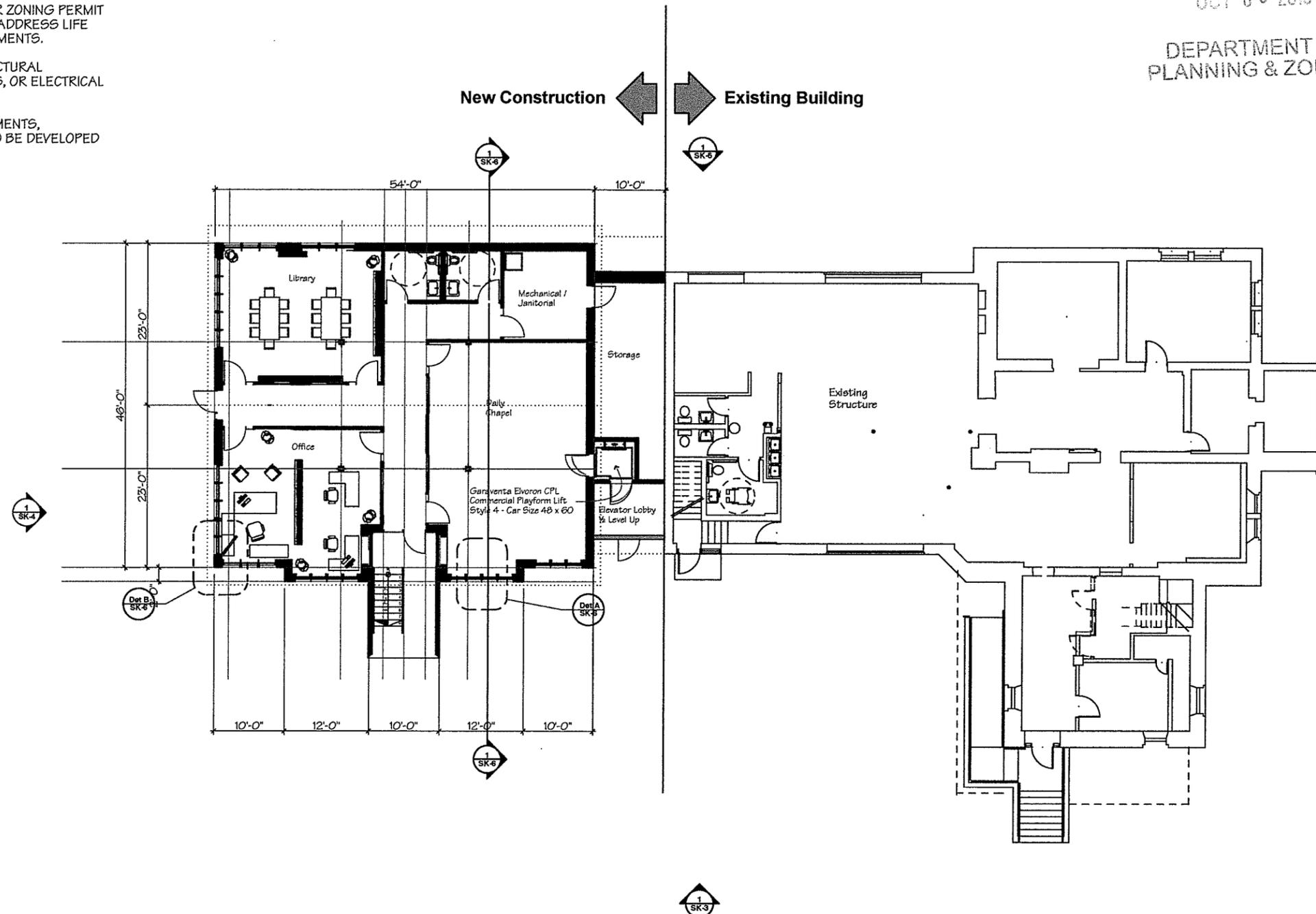
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**Chabad  
Expansion  
Project**

**Lubavitch  
of  
Vermont**

57 South William Street  
Burlington, Vermont  
05401



PROJECT NO: **1610**  
DRAWN BY: EW  
SCALE: 1/8" = 1'-0"  
DATE: Thursday, October 6, 2016  
SHEET TITLE  
**LOWER LEVEL**

**SK-2**

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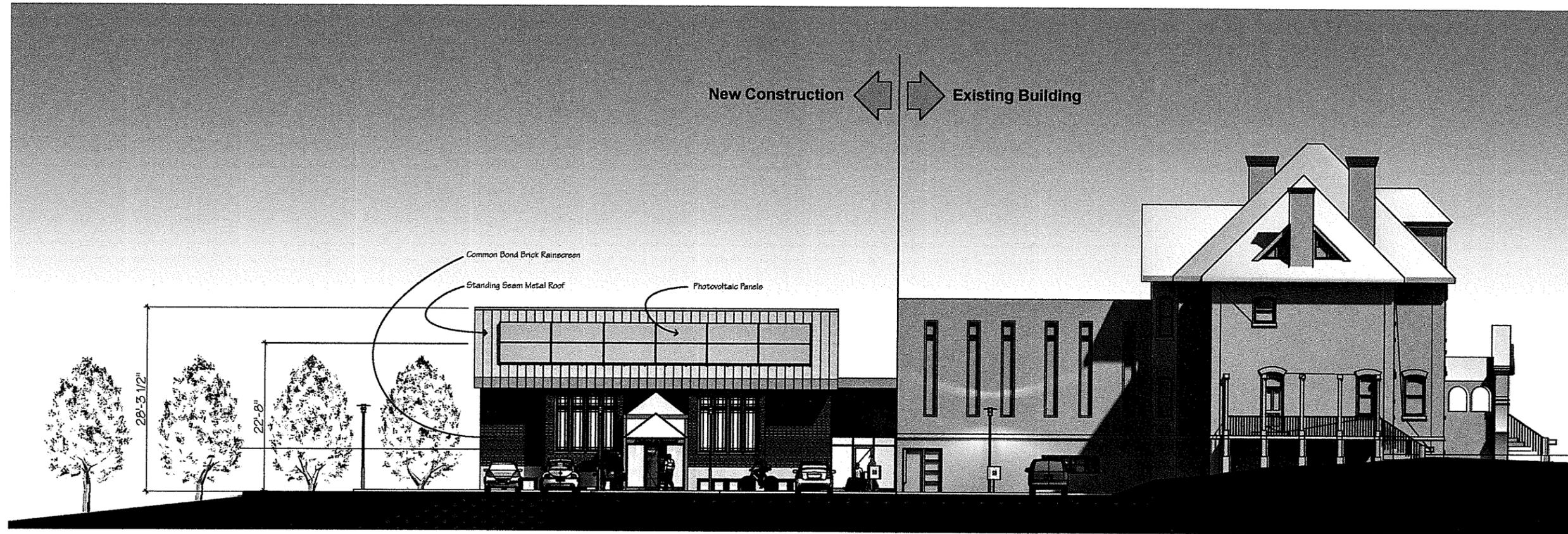
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Project**

**Lubavitch  
of  
Vermont**

**57 South William Street  
Burlington, Vermont  
05401**

PROJECT NO: **1610**

DRAWN BY: EW  
SCALE: 1/8" = 1'-0", 1:0.40  
DATE: Thursday, October 6, 2016

SHEET TITLE  
**SOUTH ELEVATION**

**SK-3**

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Section 1-1  
Scale: 1/8" = 1' - 0"



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**Chabad  
Expansion  
Project**

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Vermont**

57 South William Street  
Burlington, Vermont  
05401

PROJECT NO: **1610**

DRAWN BY: EW  
SCALE: 1/8" = 1'-0", 1:0.50  
DATE: Thursday, October 6, 2016

SHEET TITLE  
**WEST ELEVATION**

**SK-4**

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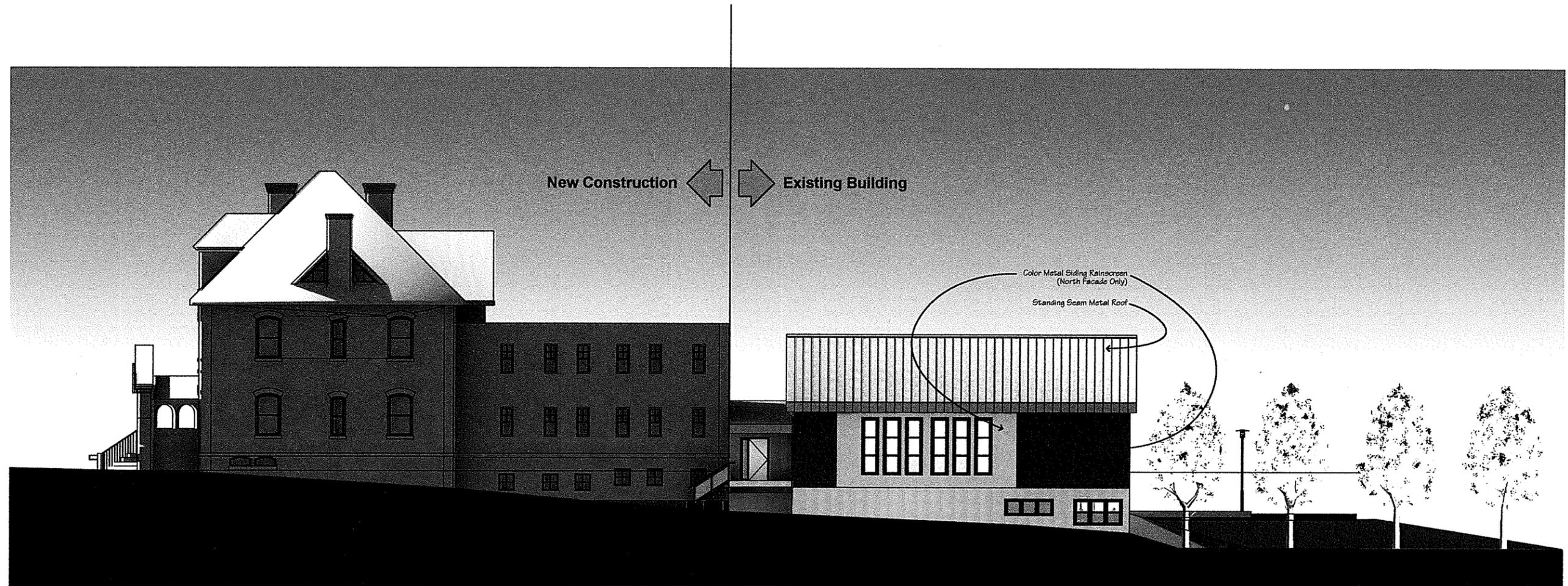
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05401

PROJECT NO: **1610**

DRAWN BY: EW

SCALE: 1/8" = 1'-0", 1:0.39

DATE: Thursday, October 6, 2016

SHEET TITLE

**NORTH ELEVATION**

**SK-5**

Version N Rev. 6 - Issued for Zoning

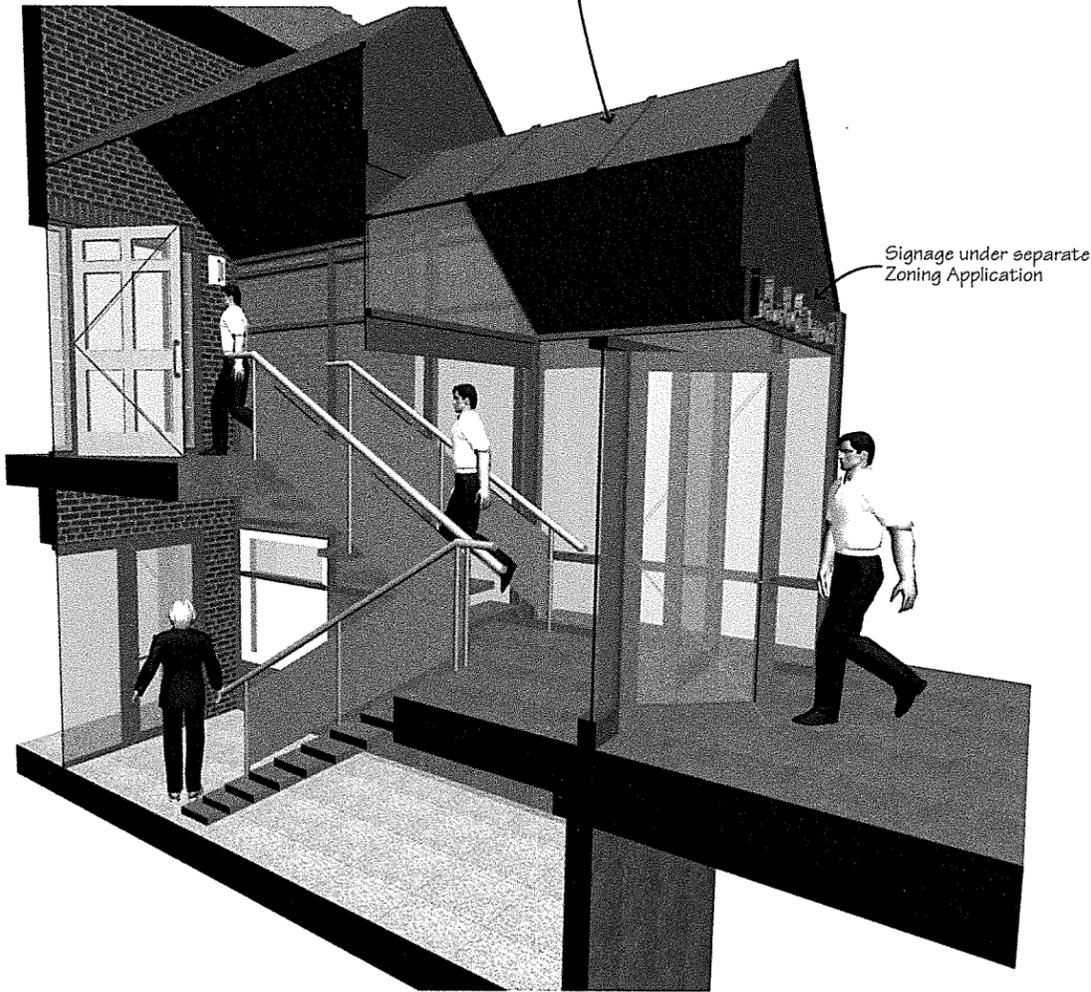
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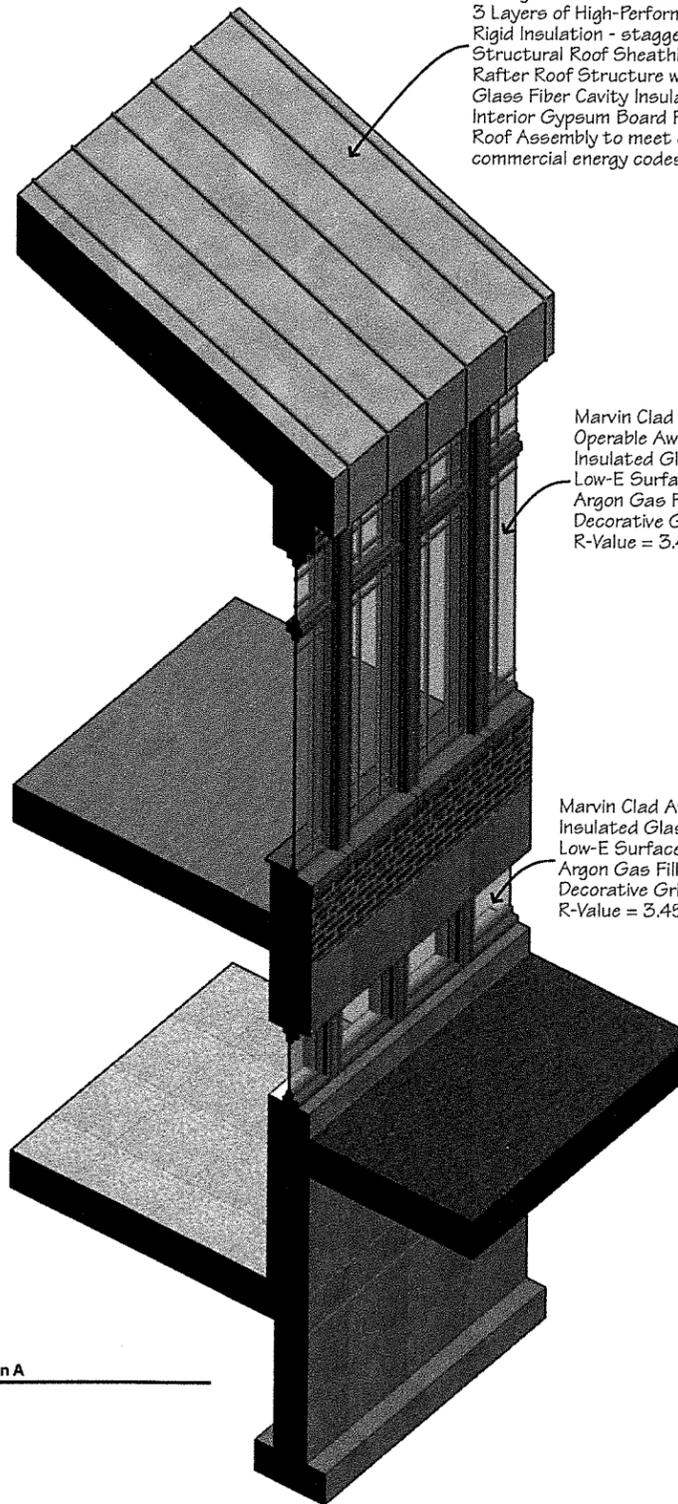
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Color Aluminum Storefront  
Framed Enclosure  
Non-Insulated Vestibule Space  
1/4 inch Glazing (Typical)  
Aluminum Storefront and Clad Doors  
Split Staircase to Upper and Lower Levels  
Non-Slip Surfaces  
Handrails and Treads to meet  
Life Safety Codes



3D Vestibule Detail Section  
Scale:

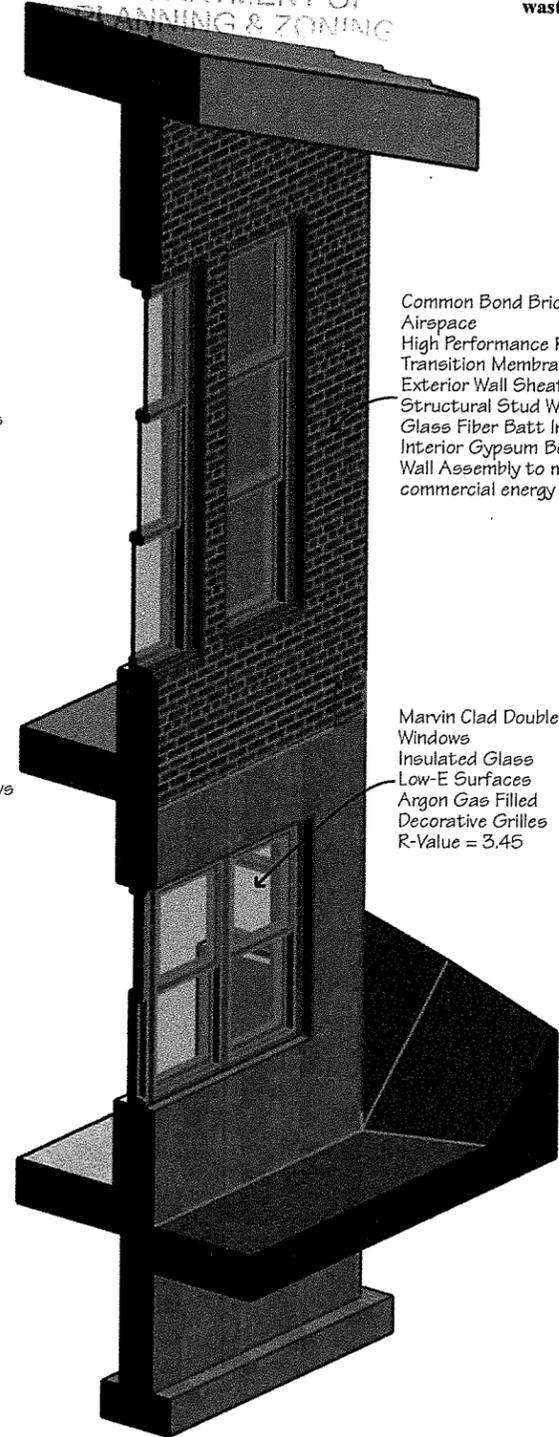


3D Detail Section A  
Scale:

Colored Galvalume Standing Seam  
Metal Roofing  
Self Adhesive Roof Membrane  
Nailing Board Roof Sheathing  
3 Layers of High-Performance  
Rigid Insulation - staggered seams  
Structural Roof Sheathing  
Rafter Roof Structure with  
Glass Fiber Cavity Insulation  
Interior Gypsum Board Finish  
Roof Assembly to meet current  
commercial energy codes

Marvin Clad Fixed and  
Operable Awning Windows  
Insulated Glass  
Low-E Surfaces  
Argon Gas Filled  
Decorative Grilles  
R-Value = 3.45

Marvin Clad Awning Windows  
Insulated Glass  
Low-E Surfaces  
Argon Gas Filled  
Decorative Grilles  
R-Value = 3.45



3D Corner Detail Section B  
Scale:

Common Bond Brick Rainscreen  
Airspace  
High Performance Rigid Insulation  
Transition Membrane  
Exterior Wall Sheathing  
Structural Stud Wall with  
Glass Fiber Batt Insulation  
Interior Gypsum Board Finish  
Wall Assembly to meet current  
commercial energy codes

Marvin Clad Double-Hung  
Windows  
Insulated Glass  
Low-E Surfaces  
Argon Gas Filled  
Decorative Grilles  
R-Value = 3.45

Signage under separate  
Zoning Application

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REV: 2016/10/10 - Chabad Synagogue/Chabad Master - 2016 - Study/HAC/20-Rev4.dwg

**Chabad  
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Project**

**Lubavitch  
of  
Vermont**

**57 South William Street  
Burlington, Vermont  
05401**

PROJECT NO: **1610**

DRAWN BY: EW  
SCALE: 1/8" = 1'-0", 1:105.57,  
DATE: Thursday, October 6, 2016

SHEET TITLE  
**DESIGN SECTIONS**

**SK-6**

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**Chabad  
Expansion  
Project**

**Lubavitch  
of  
Vermont**

**57 South William Street  
Burlington, Vermont  
05401**

PROJECT NO: **1610**

DRAWN BY: EW

SCALE: 1:0.98, 1:0.97

DATE: Thursday, October 6, 2016

SHEET TITLE

**Perspective Views - South Entrance**

**SK-7**

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**Chabad  
Expansion  
Project**

**Lubavitch  
of  
Vermont**

57 South William Street  
Burlington, Vermont  
05401

PROJECT NO: **1610**

DRAWN BY: EW

SCALE:

DATE: Thursday, October 6, 2016

SHEET TITLE

**Aerial Perspective - Roof Removed**

**SK-8**

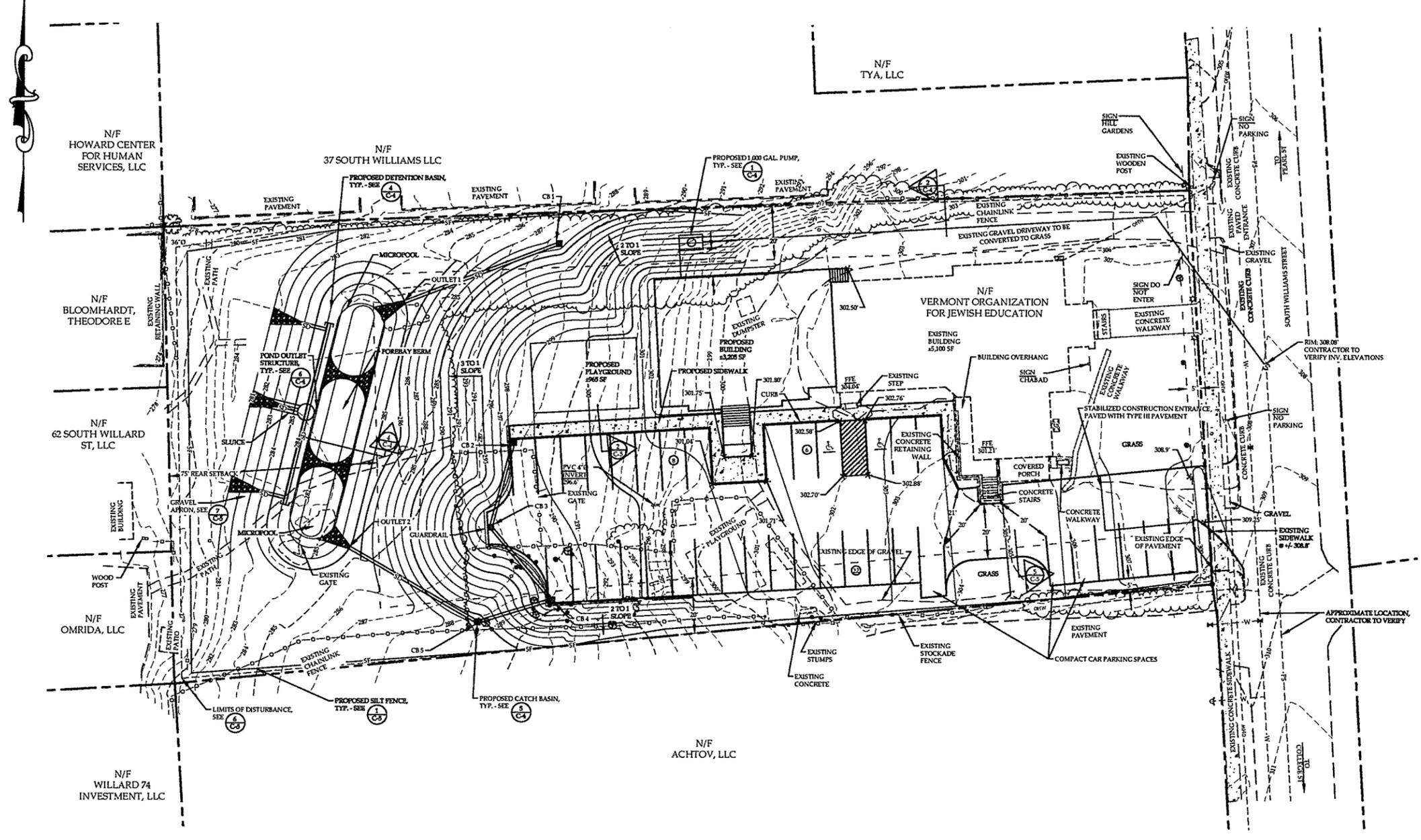
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STORMWATER DRAINAGE SUMMARY							
FROM STRUCTURE	RIM	INV. OUT	TO STRUCTURE	INVIN	DISTANCE	PIPE DIA.	SLOPE
CB 1	298.5000	298	OUTLET 1	295	35.5000	12"	0.0200
CB 2	296.6000	296	CB 3	297.6000	11.0000	12"	0.0200
CB 3	296.1000	297.5000	CB 4	296.6000	34.5000	12"	0.0200
CB 4	294.4000	296.5000	CB 5	296	28.2000	12"	0.0200
CB 5	297.5000	295.5000	OUTLET 2	295	33.6000	12"	0.0200



**PROPOSED SITE PLAN**  
SCALE: 1" = 20'  
Graphic Scale  
0 20 40 80 feet

**PRELIMINARY**  
NOT FOR CONSTRUCTION  
DATE: 09/14/16

PROPOSED SITE PLAN  
CHABAD OF VERMONT  
57 SOUTH WILLIAMS STREET  
BURLINGTON, VT 05401

**RUGGIANO**  
Engineering, inc.  
5 LAKE STREET  
ST. ALBANS, VERMONT 05478  
PHONE - (802) 524-9300 FAX - (802) 524-9700  
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PROJECT NO. 16022  
DRAWN BY: NJC  
CHECKED BY: SHR  
SCALE: 1" = 20'  
DATE: 07/19/16

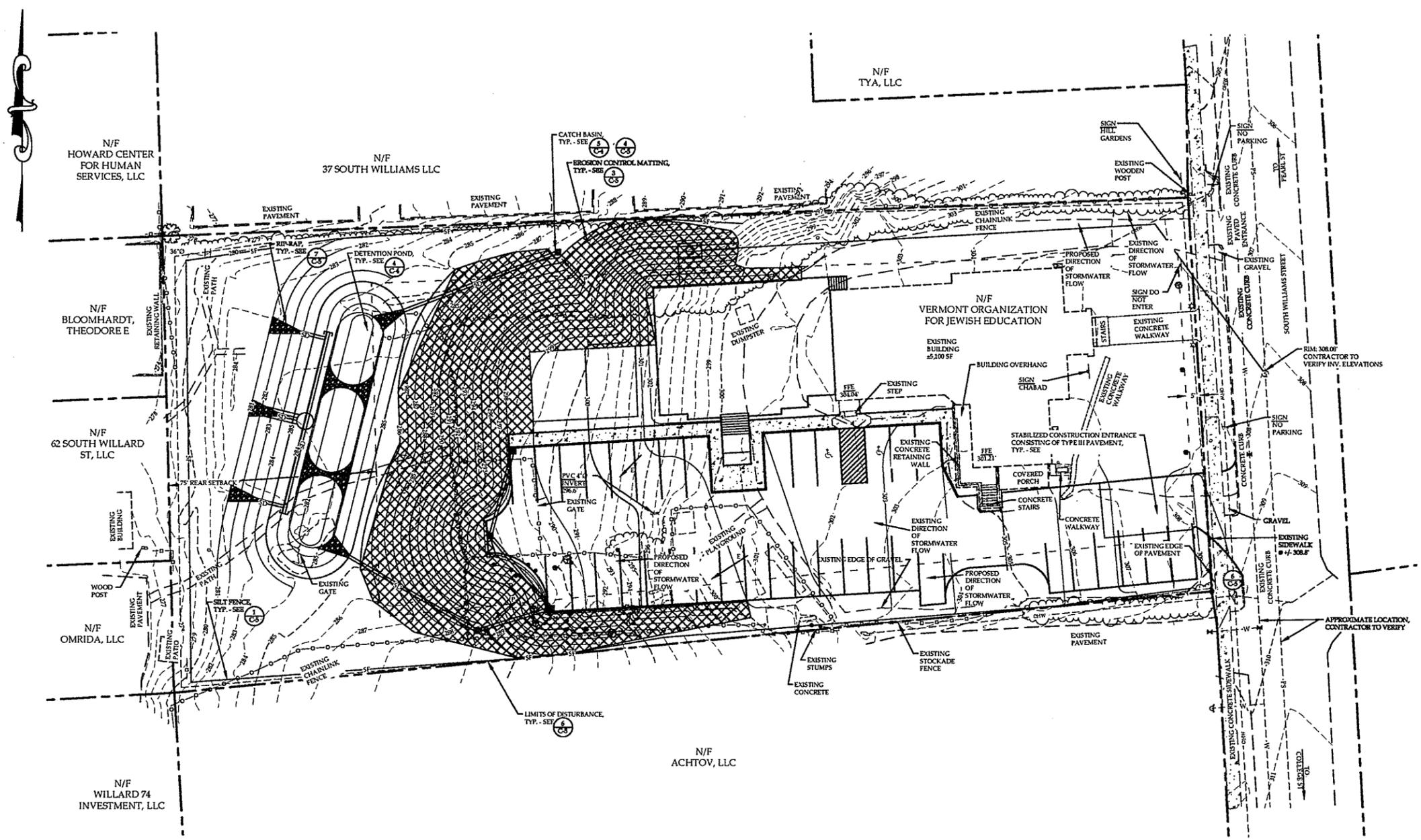
SHEET NO.  
**C-2**  
2 OF 5 SHEETS

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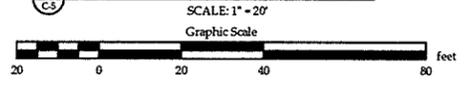
**EROSION CONTROL NOTES**

1. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT DAILY INSPECTION OF ROADWAYS AND SWEEPING AS NECESSARY OCCURS.
2. SILT FENCE WILL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION.
3. DISTURBED AREAS WILL BE COVERED AS SOON AS POSSIBLE WITH EROSION CONTROL MATTING WHERE INDICATED, FOLLOWING THE MANUFACTURER'S GUIDELINES TO STAPLE THE MATTING DOWN. DISTURBED AREAS THAT ARE NOT INDICATED TO RECEIVE EROSION CONTROL MATTING WILL BE COVERED AS SOON AS POSSIBLE WITH STRAW OR OTHER APPROVED MULCHING MATERIAL AS NECESSARY.
4. CATCH BASINS WILL BE PROTECTED AS SHOWN IN (CS)
5. DPW WILL BE CONTACTED TO SCHEDULE A STABILIZATION INSPECTION WHEN SITE WORK IS FINISHED AND STABILIZATION MEASURES HAVE BEEN INSTALLED.



**PRELIMINARY**  
 NOT FOR CONSTRUCTION  
 DATE: 09/14/16

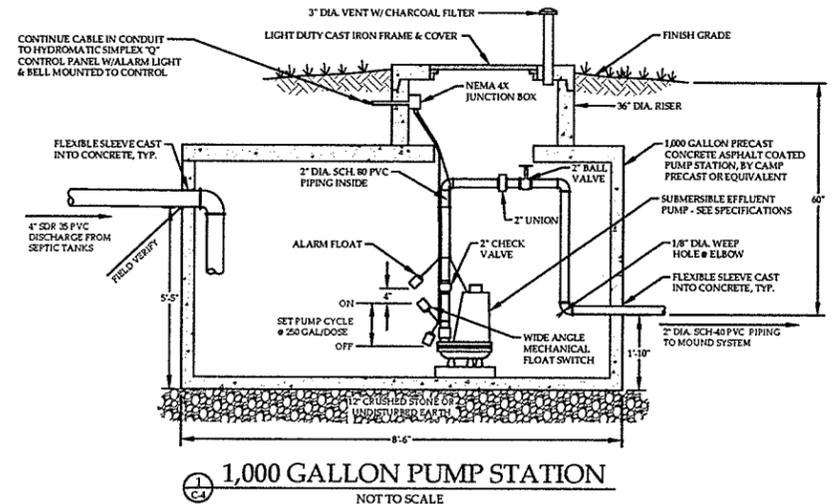
**PROPOSED SITE PLAN**



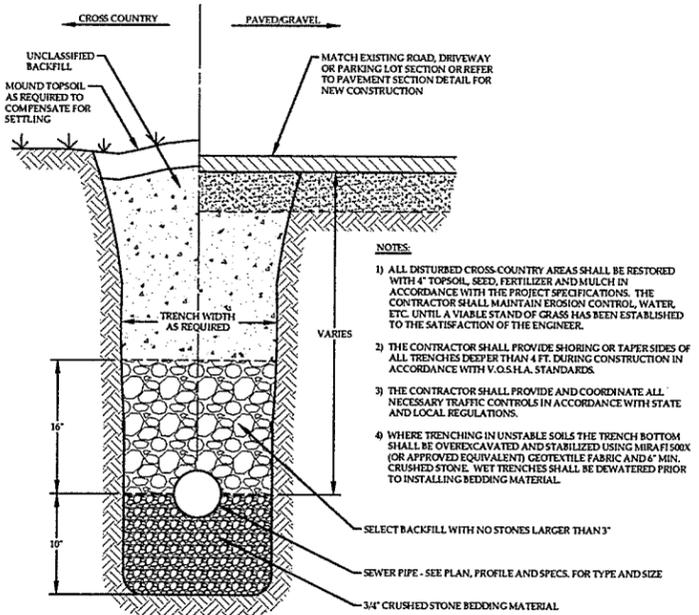
<b>EROSION PREVENTION AND          SEDIMENT CONTROL PLAN</b> CHABAD OF VERMONT 57 SOUTH WILLIAMS STREET BURLINGTON, VT 05401		
<b>RUGGIANO</b> <i>Engineering, inc.</i> <small>5 LAKE STREET          ST. ALBANS, VERMONT 05478          PHONE - (802) 524-9300 FAX - (802) 524-9700          COPYRIGHT © 2016 - RUGGIANO ENGINEERING, INC.</small>	PROJECT NO. 16022 DRAWN BY: NJC CHECKED BY: SHR SCALE: 1" = 20' DATE: 07/19/16	SHEET NO. <b>C-3</b> 3 OF 5 SHEETS

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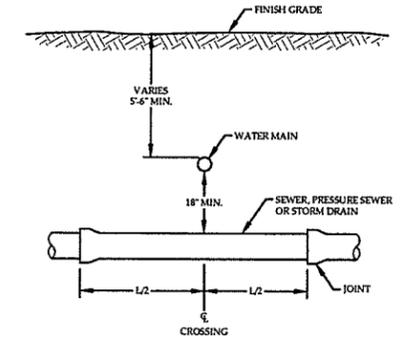


1,000 GALLON PUMP STATION  
NOT TO SCALE



TYPICAL SANITARY SEWER TRENCH  
NOT TO SCALE

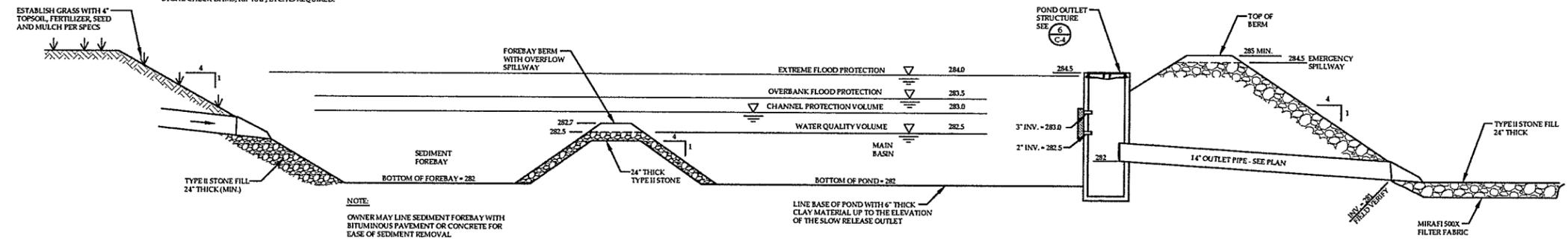
- NOTES:
- 1) USE FULL LENGTH OF WATER MAIN AND POSITION JOINTS AS FAR FROM SEWER AS POSSIBLE.
  - 2) IF SEWER IS ABOVE MAIN, MAINTAIN 18" VERTICAL SEPARATION (MINIMUM) AND ENCASE SEWER IN CONCRETE, EXTENDING BEYOND THE FIRST JOINT IN BOTH DIRECTIONS.
  - 3) WHEN IT IS IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, AND IF APPROVED BY THE ENGINEER, THE SEWER PIPE MUST ALSO BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING, OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER. THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND 1 FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS.



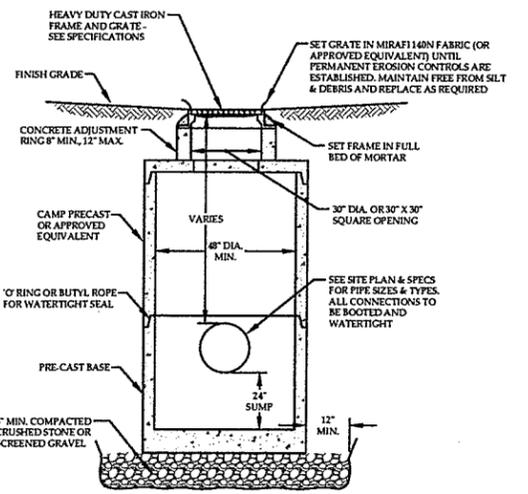
WATER/SEWER DRAIN CROSSING  
NOT TO SCALE

- NOTES:
- THE POND SHOULD BE REGULARLY INSPECTED FOR BUILD-UP OF SEDIMENT. SEDIMENT SHOULD BE REMOVED WHEN GREATER THAN A 6" DEPTH HAS ACCUMULATED.
- VEGETATION SHALL BE MAINTAINED IN ALL AREAS THAT DO NOT RECEIVE RIP RAP, PAVEMENT OR CONCRETE.
- PROPER SEDIMENT CONTROL SHALL BE PLACED AND MAINTAINED DURING CONSTRUCTION ACTIVITIES TO MINIMIZE THE AMOUNT OF SEDIMENT REACHING THE POND.
- ALL EROSION AND SEDIMENT CONTROLS SHOULD BE INSPECTED ON A REGULAR BASIS AND AFTER ANY SIGNIFICANT STORM EVENT AND REPAIRED AS NECESSARY. INSTALL ADDITIONAL EROSION CONTROL, SUCH AS STONE CHECK DAMS, RIP RAP, ETC. AS REQUIRED.

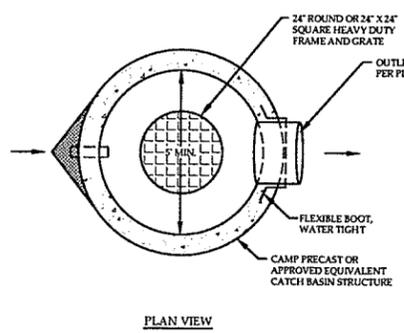
DETENTION POND SUMMARY						
	POND BOTTOM	2" CPV OUTLET	3" OUTLET	OVERFLOW GRATE	EMERGENCY SPILLWAY	TOP OF BERM
ELEVATION	282	282.5	283	284	284.5	285



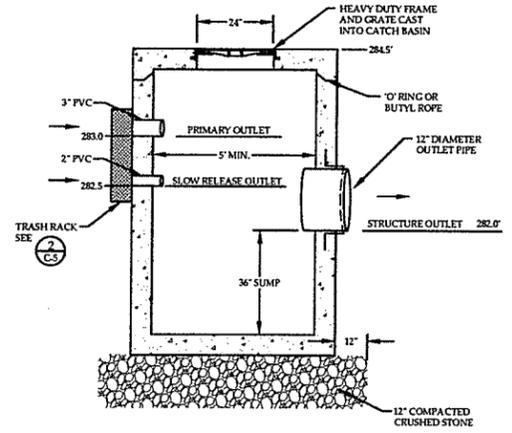
DETENTION POND SECTION  
NOT TO SCALE



TYPICAL CATCH BASIN  
NOT TO SCALE



PLAN VIEW



ELEVATION

POND OUTLET STRUCTURE  
NOT TO SCALE

PRELIMINARY  
NOT FOR CONSTRUCTION  
DATE: 09/14/16

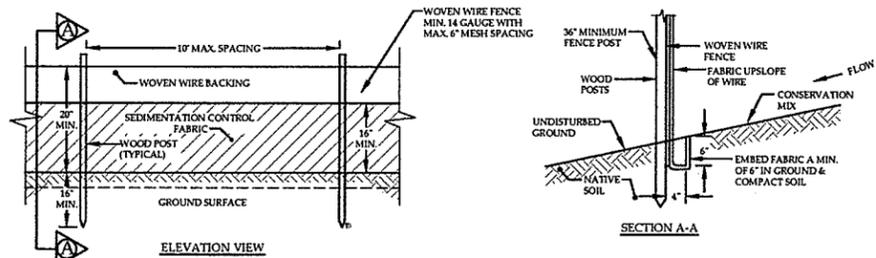
DETAILS  
CHABAD OF VERMONT  
57 SOUTH WILLIAMS STREET  
BURLINGTON, VT 05401

**RUGGIANO**  
engineering, inc.

PROJECT NO. 16022  
DRAWN BY: NJC  
CHECKED BY: SHR  
SCALE: AS NOTED  
DATE: 07/19/16

SHEET NO.  
**C-4**  
4 OF 5 SHEETS

5 LAKE STREET  
ST. ALBANS, VERMONT 05478  
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**CONSTRUCTION SPECIFICATIONS:**

SILT FENCING WILL BE APPLIED TO THE SITE SO THAT THERE WILL BE 100 FEET OF FENCING FOR EVERY 1/4 ACRE OF DISTURBED UPGRADIENT AREA.

THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES, OF THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL, PREPARED BY THE STATE OF VERMONT DEPT. OF ENVIRONMENTAL CONSERVATION, DATED 2006.

WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. WIRE FENCE REINFORCEMENT REQUIRED WITHIN 100 FT UPSLOPE OF RECEIVING WATERS.

FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.

WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTR X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.

PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OF APPROVED EQUIVALENT.

THE FABRIC SHALL NOT EXTEND MORE THAN 30" ABOVE THE ORIGINAL GROUND SURFACE AND WILL EXTEND TO A MINIMUM OF 12" INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED INTO EXISTING TREES.

THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

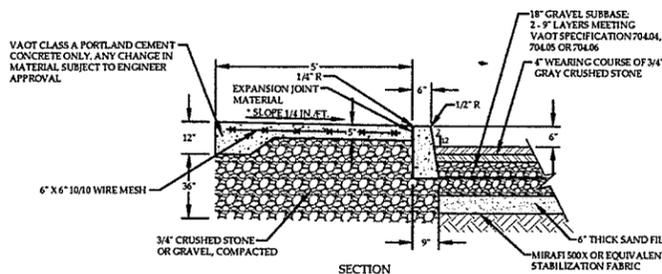
FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED FROM TLY.

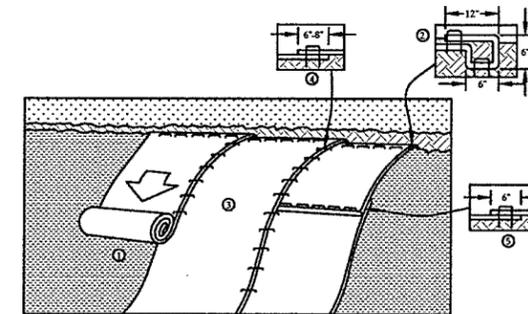
SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEDED.

**1 CS SILT FENCE DETAIL**  
NOT TO SCALE

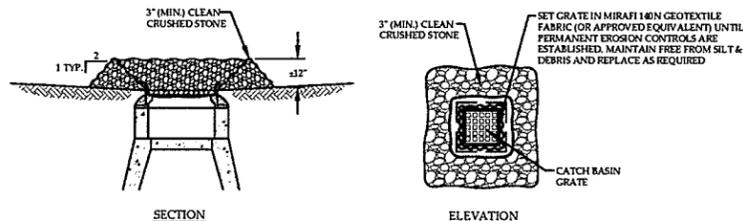


**2 CS CONCRETE SIDEWALK & CURB AT BUILDING DETAIL**  
NOT TO SCALE



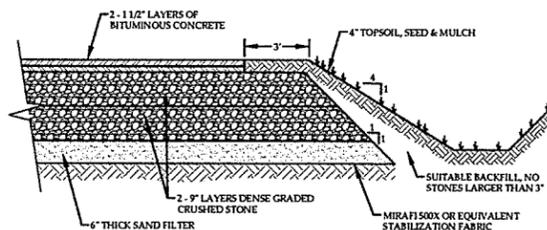
- NOTES:**
- 1) PREPARE SOIL BEFORE INSTALLING EROSION CONTROL BLANKET (ECB) INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
  - 2) BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE ECB IN A 6" DEEP, 4" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
  - 3) ROLL THE BLANKET DOWN THE SLOPE. BLANKET WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
  - 4) THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" - 8" OVERLAP DEPENDING ON BLANKET TYPE.
  - 5) CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
  - 6) IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKET.
  - 7) THE USE OF WELDED PLASTIC MATTING IS NOT PERMITTED. ALL EROSION CONTROL MATTING MUST BE BIODEGRADABLE AND DEGRADE IN 6-24 MONTHS, DEPENDING ON THEIR MAKEUP.

**3 CS EROSION CONTROL BLANKET - SLOPE INSTALLATION**  
NOT TO SCALE

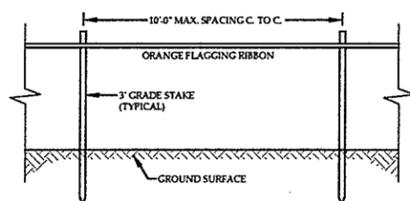


**NOTE:**  
INLET PROTECTION SHALL REMAIN IN PLACE UNTIL PAVEMENT IS INSTALLED OR VEGETATION IS ESTABLISHED TO THE SATISFACTION OF THE ENGINEER.

**4 CS CATCH BASIN INLET PROTECTION, STONE TYPE**  
NOT TO SCALE

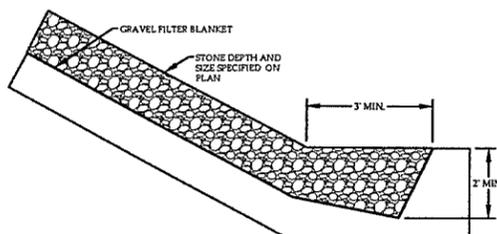


**5 CS TYPICAL PARKING LOT SECTION**  
NOT TO SCALE



**NOTE:**  
CONSTRUCTION FENCE SHALL BE USED WHERE THE PROPOSED DISTURBANCE IS WITHIN 100' OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC.), UNLESS THE AREA IS DENSELY WOODED. FENCE SHOULD BE CONTINUOUS.

**6 CS LIMITS OF DISTURBANCE DEMARCATON**  
NOT TO SCALE



**7 CS RIP-RAP SLOPE PROTECTION**  
NOT TO SCALE

**PRELIMINARY**  
NOT FOR CONSTRUCTION  
DATE: 09/14/16

**DETAILS**  
CHABAD OF VERMONT  
57 SOUTH WILLIAMS STREET  
BURLINGTON, VT 05401

**RUGGIANO Engineering, inc.**  
5 LAKE STREET  
ST. ALBANS, VERMONT 05478  
PHONE - (802) 524-9300 FAX - (802) 524-9700  
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PROJECT NO.....16022  
DRAWN BY.....NJC  
CHECKED BY.....SHR  
SCALE.....AS NOTED  
DATE.....07/19/16

SHEET NO.  
**C-5**  
5 OF 5 SHEETS

RECEIVED  
OCT 06 2016  
DEPARTMENT OF  
PLANNING & ZONING

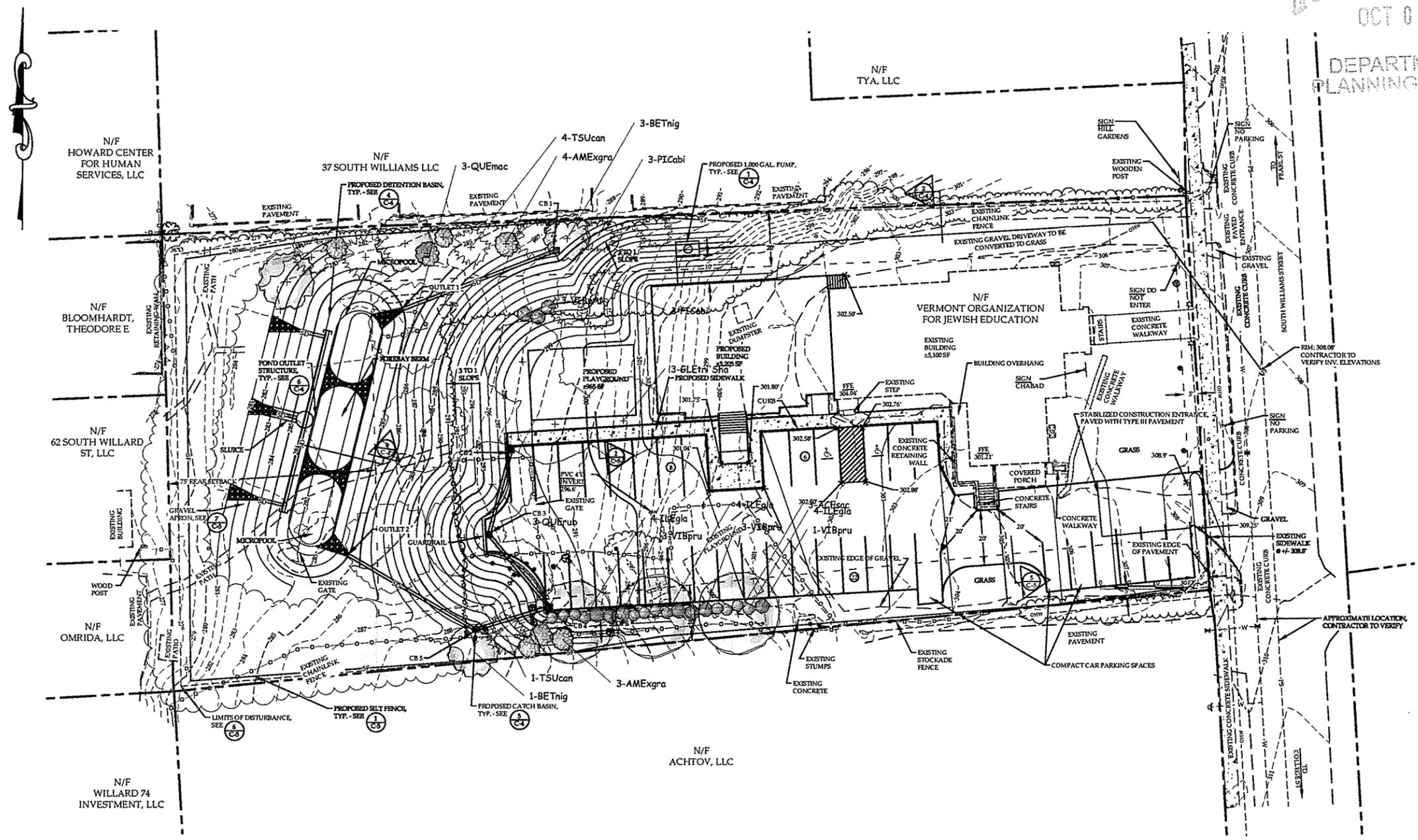
RECEIVED

OCT 06 2016

DEPARTMENT OF  
PLANNING & ZONING

Design  
Drawn  
Checked

Scale:  
Date:



Revision Description and Date:

Landscape Plan  
Chabad of Vermont  
57 South Williams Street  
Burlington, VT 05401

Ginkgo Design  
Smart Landscape Solutions  
22 Pearl Street  
Essex Jct., VT 05452  
(802) 857-5104  
www.GinkgoDesignVT.com

**Landscape Concepts and Objectives:**

This sustainable landscape plan will be achieved by using native plant species appropriately spaced to allow for healthy growth to maturity. The landscape plan will also provide the following functions and benefits:

- A contiguous green space is designed to stretch across the west side of the property wrapping north and south to connect to neighboring green spaces.
- We are recommending replacing the monoculture of black locusts that will be removed during construction, for plant species that support a higher number of Lepidoptera species that will help diversify the habitat making for a richer ecosystem.
- The landscape plan will give an overall park like feel to the property.
- Shrub plantings will be provided on the south side of the new parking to provide a screen for headlights.
- We recommended the planting of eight native shade trees adjacent to the new parking lot.
- Screen plantings along the north and south property lines are designed to replace existing plants that would be removed or potentially damaged during construction.
- Installation of an evergreen screen on the north side of the playground space is designed as a wind break and visual barrier.
- The shade trees surrounding the proposed playground will provide summer shade.
- Additional shade trees are recommended between the parking lot and the proposed detention basin to help with erosion control and obstructing views from the new addition.

Planting Schedule						
Count	ID	Common Name	Scientific Name	Unit	Height	Spread
<b>Trees</b>						
3	ACEsac	Sugar Maple	Acer saccharum	2.5-3"	35 - 50 ft	20 - 35 ft
7	AMExgra	Apple Serviceberry	Amelanchier x grandiflora	5'-6"	10 - 15 ft	7 - 12 ft
4	BETnig	River Birch Multi	Betula nigra	10-12'	35 - 50 ft	20 - 35 ft
3	GLEtr'Sha'	Shademaster Honeylocust	Gleditsia triacanthos inermis 'Shademaster'	2.5-3"	50 - 80 ft	> 35 ft
6	PIcabi	Norway Spruce	Picea abies	6-7'	35 - 50 ft	20 - 35 ft
3	QUEmac	Burr Oak	Quercus macrocarpa	2.5-3"	80 - 100 ft	> 35 ft
3	QUERub	Northern Red Oak	Quercus rubra	2.5-3"	50 - 80 ft	> 35 ft
5	TSUcan	Canadian Hemlock	Tsuga canadensis	8'-10'	35 - 50 ft	20 - 35 ft
<b>Shrubs</b>						
12	lLEgla	Shamrock Holly	Ilex glabra 'Shamrock'	#3	3 - 5 ft.	4 - 7 ft.
10	VIBpru	Black Haw Stagbrush	Viburnum prunifolium	7gal	10 - 15 ft	7 - 12 ft