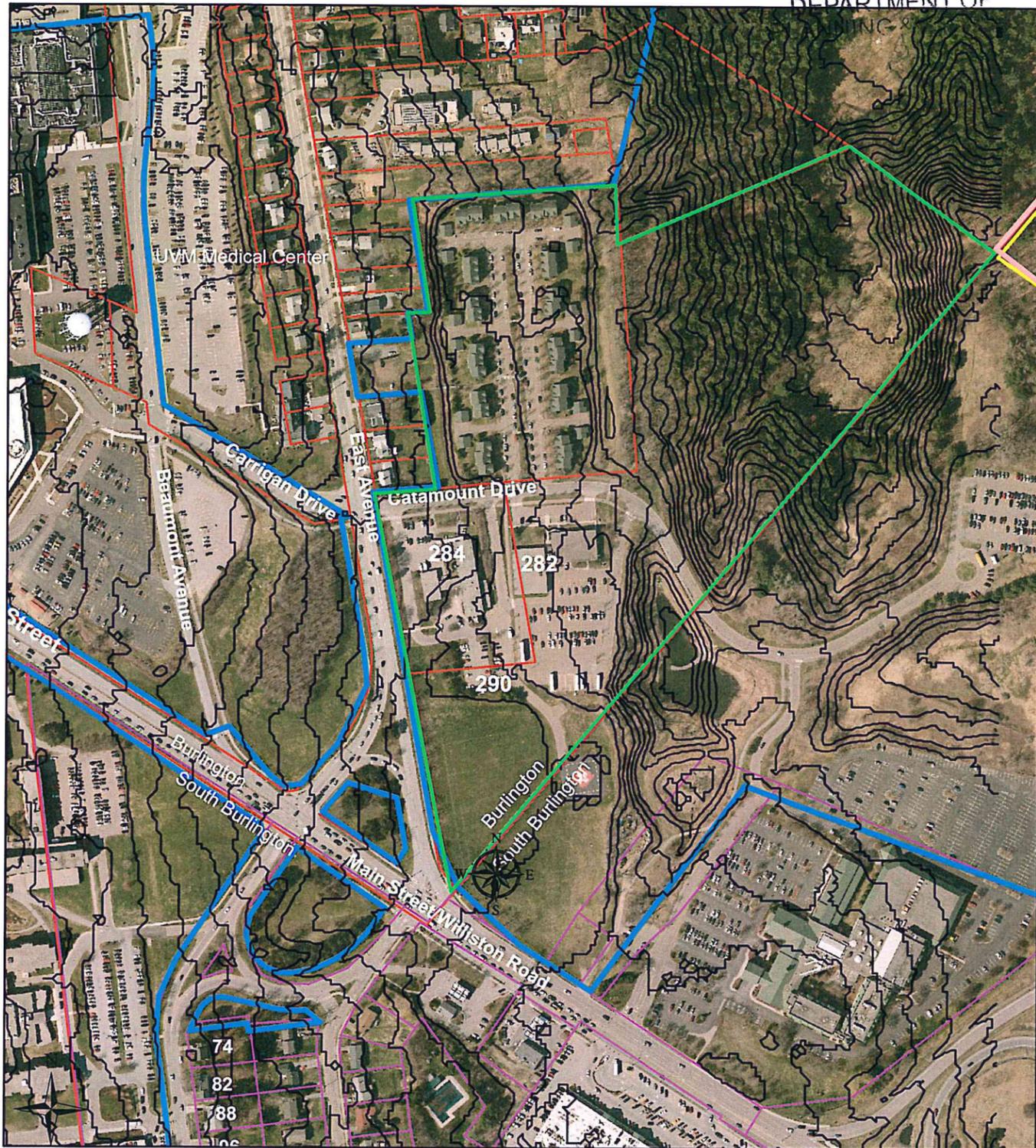


University of Vermont  
282, 284 and 290 (Proposed) East Avenue  
Site Location Plan

RECEIVED  
JUN 29 2016

DEPARTMENT OF



Prepared by Campus Planning Services

Date: 6/28/2016

Path: S:\cps\PLANNING\PROJECTS\PLANNING WORK\Lani master.mxd



0 135 270 540 Feet

Burlington Parcel Layer

UVM Property





CAMPUS PLANNING SERVICES

RECEIVED  
JUN 29 2016

DEPARTMENT OF  
PLANNING & ZONING

June 29, 2016

Scott Gustin, AICP, CFM, Principal Planner  
City of Burlington, Planning & Zoning  
149 Church Street  
Burlington, VT 05401

RE: University of Vermont New Rescue Facility, Proposed Address 290 East Avenue

Dear Scott,

The University of Vermont is requesting a COA Level II zoning permit to construct a new UVM Rescue facility, adjacent to where the existing UVM Rescue is located at 284 East Avenue.

The location is on one large lot, owned by the University of Vermont. There is an old lot line that bifurcates the site; the entire large lot will be improved but this application can only refer to the 280-290 East Avenue lot. See concurrent application for site work for the 284 East Avenue lot.

We are requesting that the new facility have an address of 290 East Avenue.

UVM Rescue is the primary emergency rescue service for UVM, and secondary responder for the surrounding communities. In addition UVM rescue serves the adjacent helipad, transporting patients to the UVM Medical Center nearby.

The building will be a one story building, metal construction, with horizontal and vertical insulated metal panels and a standing seam metal roof.

The new facility will be a much needed upgrade to enable UVM Rescue to better serve UVM and the surrounding communities. There will be room for two ambulances (currently only one ambulance can be parked indoors) as well as adequate space for responders to rest, study, exercise and meet for education and training.

The space vacated by UVM Rescue will be used by UVM Police Services (located at 284 East Avenue) for its own, much needed upgrades.

There will be no change in number of employees; the existing and new space is needed for existing staff. Parking will be reconfigured due to the location of the new building but the overall number of parking spaces on both lots will not change.

109 South Prospect Street, Burlington, VT 05405-0016  
Telephone (802) 656-3208, Fax (802) 656-8895  
Equal Opportunity / Affirmative Action Employer

UVM Rescue Facility

**RECEIVED**  
JUN 29 2016

Existing lot coverage for the 280-290 East Avenue parcel: 13.90%

Proposed new lot coverage for the 280-290 East Avenue parcel: 14.28%

DEPARTMENT OF  
PLANNING & ZONING

This application is being submitted concurrently with an application for parking and walkway reconfiguration at 284 East Avenue, near the Police Services entrance. Both lots are used together.

The cost of construction is estimated to be \$1,067,000. Please find attached check for \$2,244.

Please contact me if you would like additional information.

Sincerely,



Lani Ravin, AICP  
Associate Planner

Encs.

Zoning Permit Application

Check for \$2,244

Site Location Plan

Bega Wall Light Spec

Can Light Spec

EPSC Application

EX-1 Existing Conditions Plan

SP-1 Overall Site Plan

SP-2 Erosion Prevention & Sediment Control Plan

C-501 Civil Details

C-502 Civil Details

C-503 Civil Details

C-504 Civil Details

Photometric Analysis

Rendering: Aerial Looking Southwest

A100 Floor Plan

A200 Exterior Elevations

A301 Building Sections

cc: Linda Seavey, Director, Campus Planning Services  
Ken Bean, Project Manager and Campus Architect, Facilities Design & Construction

## Mary O'Neil

---

**From:** C. Ravin <Lani.Ravin@uvm.edu>  
**Sent:** Monday, July 18, 2016 12:12 PM  
**To:** Mary O'Neil  
**Subject:** UVM rescue building in the JIPMP  
**Attachments:** SKM\_C36816071812000.pdf

Hi Mary,

Thank you for speaking with me today. After our conversation I checked and yes, the UVM rescue building is listed in the 2014-2019 JIPMP. The only change is that we are not removing any parking spaces for this building.

As I mentioned, we look at parking campus wide, so we have an inventory of over 5,000 parking spaces on campus, and at peak times we have over 700 empty parking spaces. The JIPMP documents these numbers more exactly. So you can see the wider context shows that the University has adequate parking before and after this project.

Please let me know if you have any other comments or questions.

Lani

## SEC. 8.1.8 MINIMUM OFF-STREET PARKING REQUIREMENTS

Table 21 summarizes projects that may be built by 2019; because many elements of these planned projects are currently undefined, approximate square footages and associated employment were estimated based on a number of assumptions.<sup>16</sup> This is a conservative estimate, as it includes all projects that could potentially be constructed within the 2019 timeframe; in reality, it is likely that not all projects will be developed or pursued by then. The new facilities Gross Square Footage (GSF) estimated for these projects were added to the existing campus facilities described in Section 8.1.4 to calculate minimum parking requirements per the Ordinance.

TABLE 21: UVM PLANNED PROJECTS 2014-2019

Building Project	Primary Use	Change in GSF	Change in # of Beds	Change in # Parking Spaces
Multi-Purpose Event Center <sup>1</sup>	Athletic	200,000	0	0
STEM <sup>2</sup>	Administrative/Academic	100,000	0	0
Kalkin Addition	Administrative/Academic	21,750	0	0
61 Summit Street <sup>3</sup>	Administrative/Academic	5,300	0	16
UVM Rescue Building	Administrative/Academic	3,400	0	-38
Billings <sup>4</sup>	Administrative/Academic	0	0	0
Housing Master Plan – Phase I <sup>5</sup>	Residential	250,000	up to 730	0
Athletic Recreation Center	Athletic	58,000	0	0
Virtue Field Outdoor Seating <sup>6</sup>	Athletic	6,165	0	0
<b>Total New GSF</b>		<b>656,615</b>	<b>730</b>	<b>-22</b>
Demolition Project	Primary Use			
Angell Hall <sup>2</sup>	Administrative/Academic	-11,079	0	0
Housing Master Plan – Phase II <sup>5</sup>	Residential	-77,936	-391	0
<b>Total Demolished GSF</b>		<b>-89,015</b>	<b>-391</b>	<b>0</b>
<b>Net Change GSF</b>		<b>555,600</b>	<b>339</b>	<b>-22</b>

Notes: (1) Assumes new 6,500 to 7,500-seat facility.

(2) Total STEM project will include the renovation of Cook and Votey Buildings, the demolition of Angell Lecture Center, and the addition of a new 100,000 square-foot facility.

(3) Additional square footage in new pavilion addition; renovation of existing building will not add new space.

(4) Renovation; does not include any new additional space.

(5) Approximate square footage for new housing south of Main Street near Harris-Millis and Marsh-Austin-Tupper Residence Halls; assume that Chittenden, Buckham, and Wills Residence Halls (up to 391 beds) will be demolished within five years, with replacement occurring more than five years in the future.

(6) Includes the following accessory buildings: bathrooms, lockers, and a concession stand.

In the next five years, UVM expects a number of new projects with minimal changes to the parking inventory. These projects include ones that carried over from the last five-year projection: the Multi-Purpose Event Center, STEM Initiative, and the Athletic Recreation Center. In addition to these projects, UVM has several projects currently in design, including the Kalkin Addition, 61 Summit Street, and the Rescue Building. The Virtue Field Outdoor Seating has obtained a municipal permit. Billings, the Athletic Recreation Center, and the Housing Master Plan – Phase I project are also expected in the next five years.

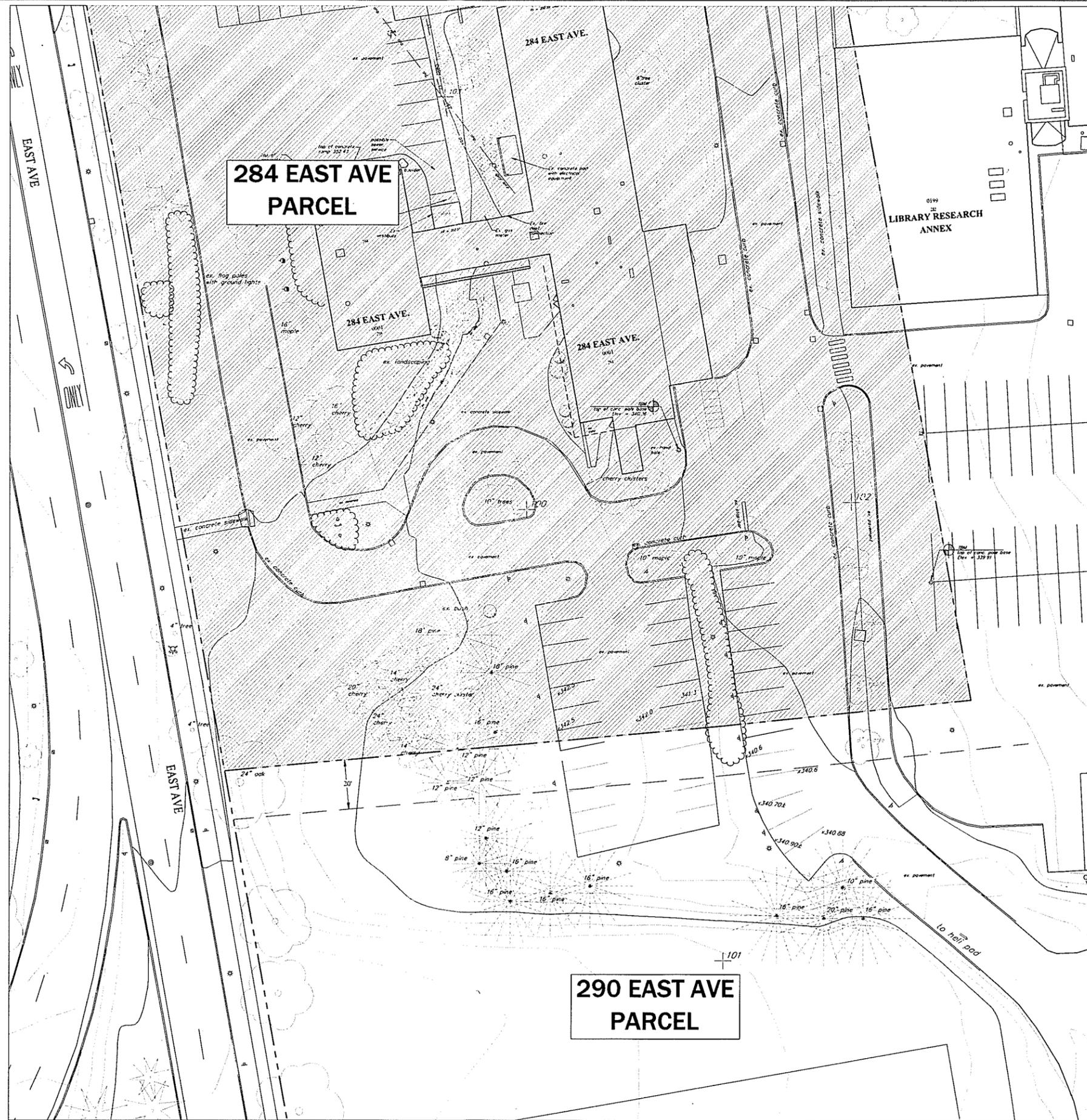
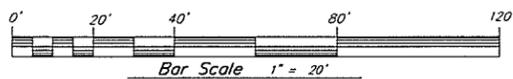
<sup>16</sup> Planned projects are not assumed to generate any new employment.

**LEGEND**

- Survey Control Point
- Existing Sign
- Existing Light Pole
- Existing Deciduous Tree
- Existing Evergreen Tree
- Existing Spot Grade Elevation
- Existing Contour
- Existing Gas Line/Valve
- Existing Sewer Line/Manhole
- Existing Storm Line/Manhole/Basin
- Existing Overhead Electric Line/Power Pole
- Existing Overhead Utility
- Existing Communications Line
- Existing PBX Line
- Existing Underground Electric & Telephone Line
- Existing Site Lite Line
- Existing Tree Line
- Existing Underground Power
- Existing Water Line/Hydrant/Valve/Shutoff
- Approximate Property Line
- Existing Setback

**Notes:**

1. This plan is not a boundary survey. Property lines are based on digital files provided by UVM and are considered approximate.
2. The underground utilities shown on this plan are based on visible utilities located during a topographic survey performed by Krebs & Lansing in Jan 2014 and UVM Utility Master Plan mapping. Underground utilities are approximate and not warranted to be exact or complete. Dig Safe shall be contacted prior to any excavation.
3. Elevations are based on GPS survey observations that reference the NAVD 88 vertical datum in US Survey Feet.
4. Project Horizontal Coordinates derived from GPS observation using reference frame NAD83 (2011) 2010.00 epoch. Project vertical datum based on NAVD 88 (Geoid 12A).



**RECEIVED**

JUN 29 2016

DEPARTMENT OF  
PLANNING & ZONING

290 EAST AVE  
PARCEL  
RESCUE FACILITY  
UNIVERSITY OF  
VERMONT

BURLINGTON, VT

PROJECT NO:		A1321	
ORGANIZATION DATE:	SCALE:	6/20/16	1"=20'
DRAWN BY:	CHECKED BY:	DMR	

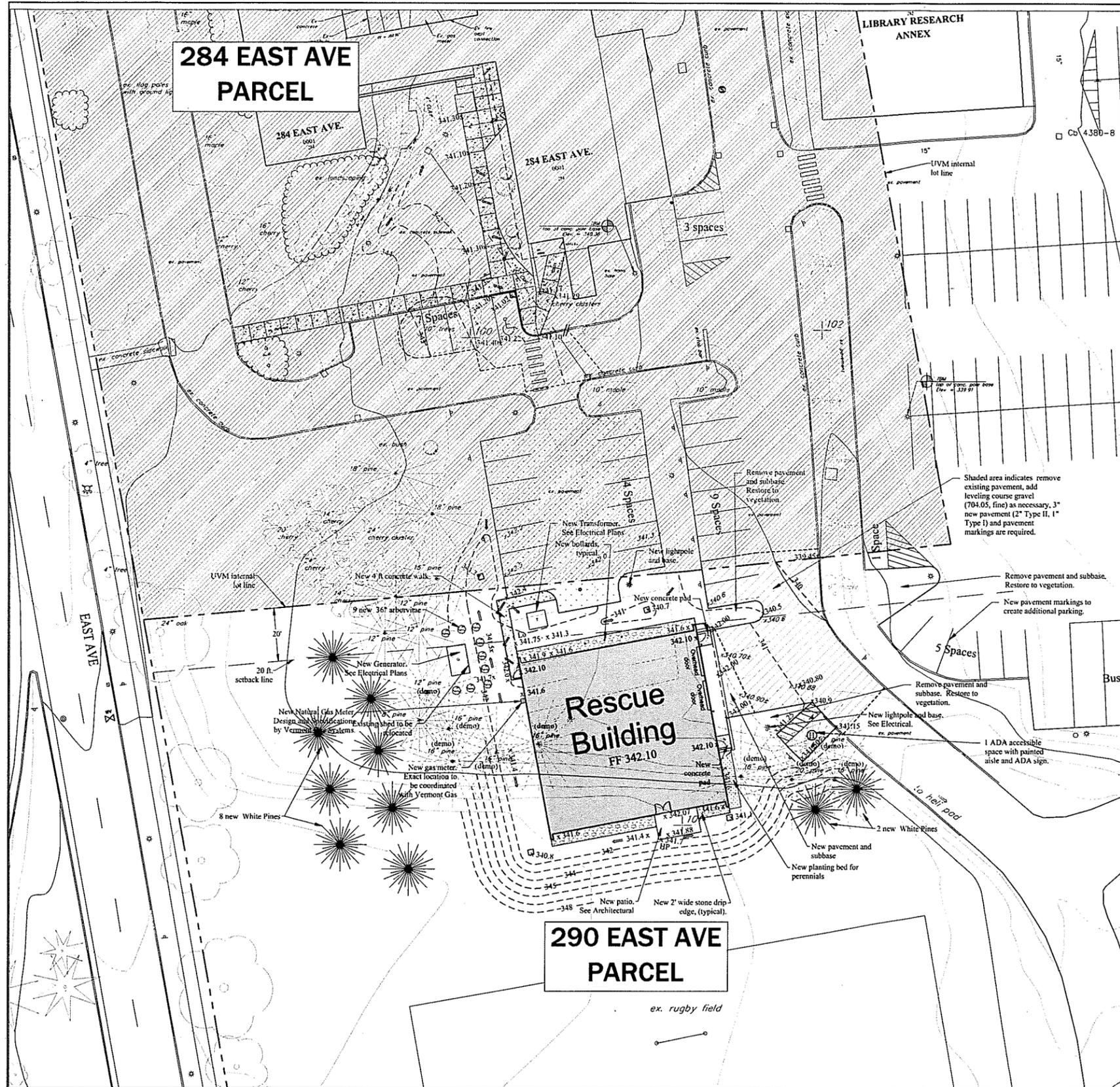
SHEET CONTENTS:  
**EXISTING  
CONDITIONS  
PLAN**

SHEET NO:  
**EX-1**



freeman | french | freeman  
81 Maple Street • Burlington VT 05401  
802-864-6844 • www.fffinc.com  
Architecture • Planning • Interiors

Krebs & Lansing Consulting Engineers, Inc.  
184 Main Street, Suite 201  
Colchester, VT 05445  
T: (802) 878-0375  
F: (802) 878-0518  
info@kreslandeng.com



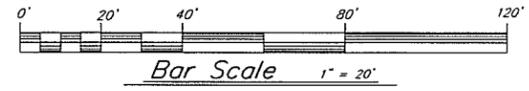
**Legend**

- 112 Survey Control Point
  - Existing Sign
  - Existing Light Pole
  - Existing Deciduous Tree
  - Existing Evergreen Tree
  - Existing Spot Grade Elevation
  - Existing Contour
  - New Finish Grade Contour
  - Existing Gas Line/Valve
  - New Gas Line/Valve
  - Existing Sewer Line/Manhole
  - New Sewer Line/Manhole
  - Existing Storm Line/Manhole/Basin
  - New Storm Line/Manhole/Basin
  - Existing Overhead Electric Line/Power Pole
  - Existing Overhead Utility
  - Existing PBX Line
  - Existing Site Lighting
  - Existing Tree Line
  - Existing Underground Power
  - Existing Water Line/Hydrant/Valve/Shutoff
  - New Water Line/Hydrant/Valve/Shutoff
  - Existing Property Line
  - Existing Setback
  - Existing Easement
- 
- New Building
  - New Concrete
  - New Pavement and Subbase
  - New Pavement (shim/topcoat)
  - Additional gravel and new pavement
  - New stone drip edge

**Notes:**

1. The underground utilities shown on this plan are based on limited dig safe markings and utility mapping provided by UVM. Utility locations are approximate and not warranted to be exact or complete. The Contractor shall contact Dig Safe prior to any site excavation.
2. The Contractor shall contact UVM Telecommunications and Network Services (656-3339) prior to any work in the vicinity of the PBX conduit. Contractor shall be responsible for placing Owner supplied locator bats over exposed conduits prior to backfilling.
3. Elevations are based on the NAVD 88 vertical datum.
4. The Contractor shall be responsible for repairing all disturbed areas back to original condition, including but not limited to curbing, sidewalks, road, parking areas, landscaping, site lighting, electrical, and etc. All asphalt shall be sawcut prior to paving.
5. All stumps, rock, and other non-approved trench backfill material discovered during construction is the exclusive property of the Contractor and shall be removed from UVM property and disposed of in a State approved disposal location.
6. All passing compaction and sieve testing expenses shall be paid by Owner. Testing coordination and expenses for load tests shall be the Contractor's responsibility.
7. The Contractor shall contact the Burlington Electric Department prior to any work in the vicinity of the existing electric conduits.
8. Contractor shall be responsible for all "As-built" measurement and drafting requirements as outlined on the Detail Sheets. All trench excavations shall remain open until all as-built survey shots have been taken. Progress Record Drawings shall be submitted to the Engineer as indicated in the Record Drawing specifications.
9. The Contractor shall be responsible for all construction barrier/safety fencing required for the project.
10. Definition of "Preconstruction Excavation" for these contract documents shall be:  
The site contractor shall expose utility and obtain all necessary information, including but not limited to, invert elevation, size, depth, pipe type, joint location, etc. Contractor shall transit survey the location and elevations of the utility. Contractor shall provide the engineer with sketches indicating horizontal and vertical information of pipe or conduit type and size, cross-section information, concrete encasement information (top and bottom elevations, width, etc.), joint location, etc. of each required existing underground utility. Accuracy of horizontal location is within 1 foot, and accuracy of vertical elevation is within 0.02 ft. (1/4"). Coordinate all excavation with City, Owner, and Engineer. Preconstruction excavations shall occur prior to ordering structures and prior to utility construction, to facilitate redesign if necessary.
11. Contractor shall be responsible for importing topsoil as required to complete the project. Contractor shall test topsoil for approval by the Owner and Engineer.
12. The Contractor shall be responsible for all signage and fencing necessary to providing safe vehicular and pedestrian access through or around the site during construction.
13. Traffic control flag people shall be used during construction within the East Avenue Right of Way.
14. Contractor shall be responsible for meeting with the University and the City of Burlington Public Works to obtain the necessary Construction Permit within the City Right of Way. The fee for the permit will be the Contractor's responsibility.
15. All storm pipes shall be PVC SDR 35 unless otherwise noted.
16. For this project, exposed soil shall be limited to a maximum 14 DAYS from initial disturbance. See Sheet CD-2 for exceptions.
17. All Civil Site and Civil Utility design extends from beyond 5 ft. outside the buildings. Contractor shall see Architectural, Structural, and Mechanical Plans for all design within 5 ft. of the building.
18. Refer to Structural Plans for design of all concrete building pads and other reinforced concrete.
19. The pavement and restoration shown on this plan may not include all restoration necessary to complete the utility work. The Contractor shall be responsible for repairing all pavement and subbase necessary to complete the work.
20. Site Contractor shall be responsible for extending all new water, sewer, and storm connections to the building plumbing connection where mechanical contractor starts. Coordinate with Mechanical Contractor. Site Contractor shall refer to mechanical and plumbing plans for design and specifications within 5 ft. of the building.
21. All new storm and sewer pipes shown on these plans are to be SDR 35 PVC, or approved equal, unless otherwise indicated. ENHROTITE or other PVC pipe with recycled content is NOT acceptable.
22. Site lighting design by others. Light poles shown are for graphical purposes only.

Parking	Existing	Post Construction	Net
Police Services/Rescue Lot	24 spaces	14 spaces	(-) 10 spaces
Helipad Access Road	14 spaces	10 spaces	(-) 4 spaces
Ex. Rescue Building	2 spaces	3 spaces	(+) 1 spaces
Police Services Loop	0 spaces	7 spaces	(+) 7 spaces
Bus Parking Area	0 spaces	6 spaces	(+) 6 spaces
Net Parking Change:			0 spaces



**RECEIVED**

JUN 29 2016

DEPARTMENT OF  
PLANNING & ZONING

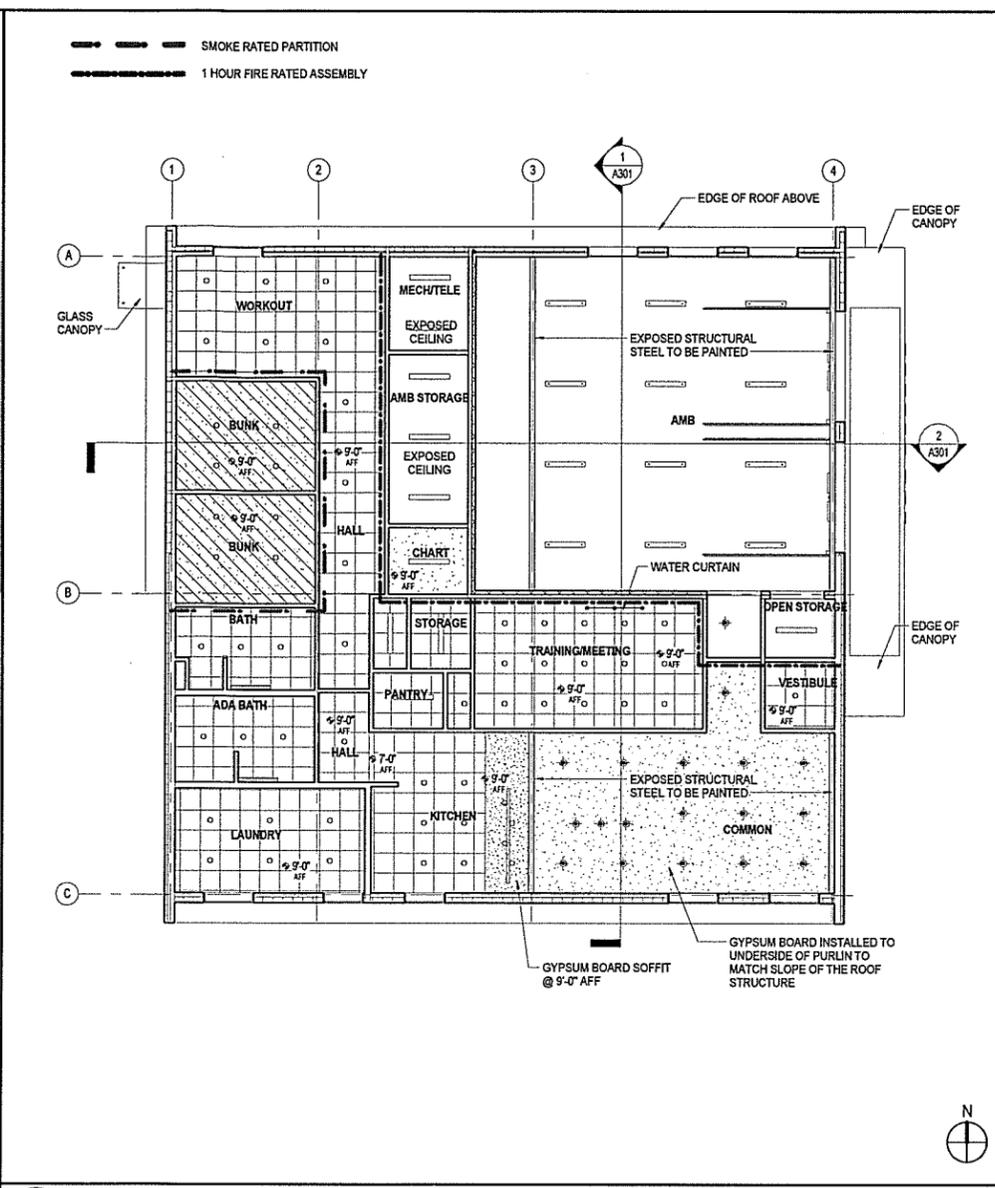
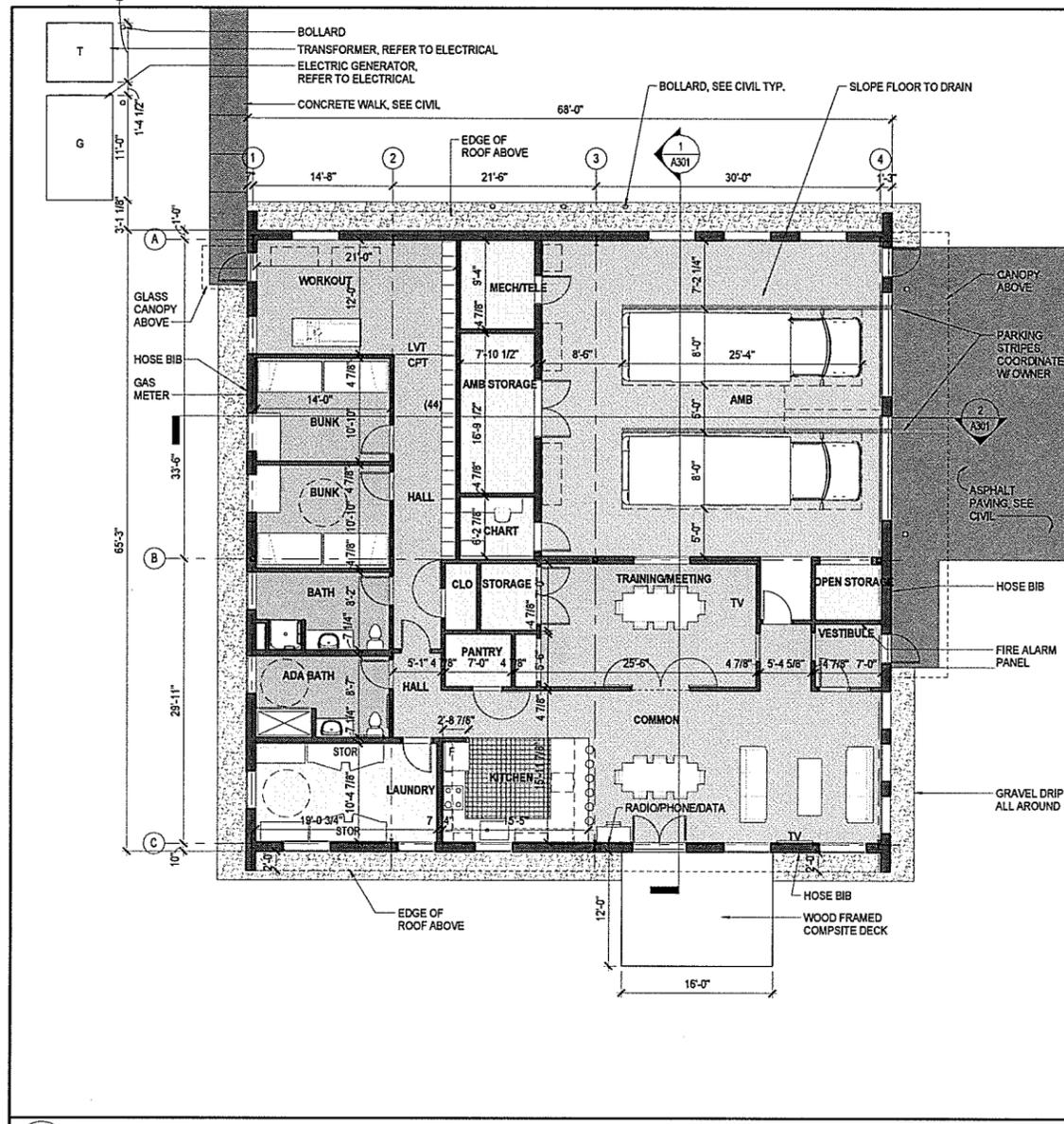
290 EAST AVE  
PARCEL  
RESCUE FACILITY  
UNIVERSITY OF  
VERMONT

BURLINGTON, VT

PROJECT NO:	A1321
ORGANIZATION DATE:	6/20/16
SCALE:	1"=20'
DRAWN BY:	DMR
CHECKED BY:	
DATE:	

OVERALL  
SITE  
PLAN

SHEET NO.  
**SP-1**



**1 FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**2 REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"

**FLOOR GENERAL NOTES**

- ALSO SEE SYMBOL LEGEND ON COVERSHEET
- DIMENSIONS:** ALL INTERIOR DIMENSIONS ARE TO FACE OF GWB FINISH UNLESS OTHERWISE NOTED EXTERIOR DIMENSIONS ARE TO NOMINAL CORNER OF MASONRY UNLESS NOTED OTHERWISE.
- PLANS ARE TO BE VIEWED IN CONJUNCTION WITH CIVIL, LANDSCAPE, STRUCTURAL, MEPP, AND ALL OTHER TRADES, AS APPROPRIATE. DISCREPANCIES ARE TO BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR RESOLUTION BEFORE COMMENCING WORK.
- ALL NON-ARCHITECTURAL INFORMATION SHOWN HERE IS FOR REFERENCE ONLY.
- REFER TO CIVIL PLANS FOR LIMIT OF WORK.
- THE DISTANCE FROM THE HINGE SIDE OF THE DOOR TO THE FACE OF ADJACENT PERPENDICULAR WALL SHALL BE 6 INCHES (INCLUDING FRAME) UNLESS NOTED OTHERWISE.
- ALL VERTICAL AND HORIZONTAL PENETRATIONS THROUGH RATED ASSEMBLIES ARE TO BE SEALED WITH UL-LISTED FIRESAFING AND/OR SEALANT ASSEMBLIES TO MAINTAIN RATING

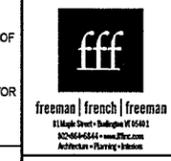
**FLOOR PLAN LEGEND**

ALSO SEE SYMBOL LEGEND ON COVERSHEET

- NEW METAL STUD / GYPSUM WALLBOARD WALL
- NEW MASONRY WALL
- FIRE EXTINGUISHER CABINET: FE-C: SEMI-RECESSED CABINET W/ FE-1
- FIRE EXTINGUISHER ON WALL BRACKET: FE-1: MULTI-PURPOSE DRY CHEM. EXTINGUISHER (TYPE A-B-C) FE-2: KITCHEN GREASE EXTINGUISHER (TYPE K)
- ROOM TAG - SEE A900 FOR FINISHES
- ROOM NAME
- ROOM NUMBER
- WALL TAG - SEE SHEETS A003, A004
- WALL TYPE WHERE A WALL TYPE LEADER PASSES THROUGH 2 OR MORE WALLS, ALL OF THOSE WALLS SHALL BE OF THE TYPE INDICATED.
- DOOR TAG - SEE SHEET A800
- DOOR NUMBER
- WINDOW OR CURTAIN WALL TAG SEE SHEET A810
- WINDOW OR CURTAIN WALL TYPE

**REFLECTED CEILING PLAN LEGEND**

- CAN LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- LINEAR LIGHT FIXTURE
- LINEAR WALL MOUNTED LIGHT FIXTURE (ABOVE VANITY)
- LINEAR PENDANT LIGHT FIXTURE
- TRACK LIGHTING
- SMOKE RATED CEILING
- GYPSUM BOARD CEILING
- ACT CEILING SYSTEM



**RECEIVED**

JUN 29 2016

DEPARTMENT OF PLANNING & ZONING

RESCUE FACILITY  
UNIVERSITY OF VERMONT

BURLINGTON, VT

PROJECT NO: **A1321**

ORGANIZATION DATE: 06/03/16 SCALE: As Indicated

DESIGNER: EC CHECKED BY: AH

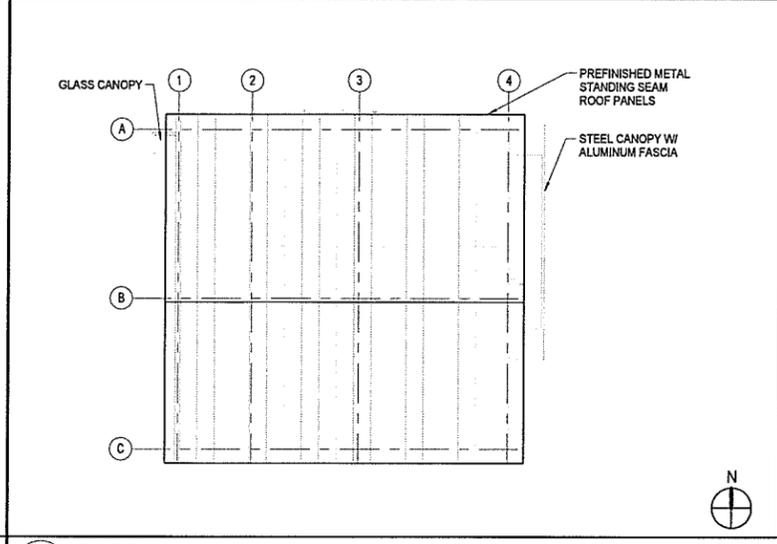
DATE LOG: 06/06/16

**FLOOR PLAN**

**A100**

ROOM FINISH SCHEDULE							
ROOM #	NAME	FLOOR	BASE	WALL FINISH	CEILING	COMMENTS	
01	VESTIBULE		WALK OFF MAT	PT1	ACT1	WALL TO WALL WALK-OFF MAT	
02	AMB		CONCRETE SEALER	RB1	PT1	EXPOSED HIGH PSI CONCRETE WITH SEALER. CMU WALLS TO BE PAINTED WITH EPOXY PAINT. SLOPE FLOOR TO DRAIN	
03	CHART		CONCRETE SEALER	RB1	PT1	PAINTED GWB	
04	AMB STORAGE		CONCRETE SEALER	RB1	PT1	PAINTED GWB	
05	MECH/TELE		CONCRETE SEALER	RB1	PT1	PAINTED GWB	
06	OPEN STORAGE		CONCRETE SEALER	RB1	PT1	OPEN TO ABOVE	
07	COMMON		CPT1	RB1	PT1	PAINTED GWB ALTERNATE: TECTUM OR ACOUSTIC PANEL CEILING, POWER, DATA, AND CABLE FOR TV. POWER, PHONE, & RADIO AT DESK	
08	KITCHEN		TILE	TILE BASE	PT1	ACT1	PAINTED GYPSUM BOARD SOFFITS
09	PANTRY		CPT1	RB1	PT1	ACT1	PLASTIC LAMINATE SHELVING
10	TRAINING/MEETING		CPT1	RB1	PT1	ACT1	HARDWOOD CHAIR RAIL AT PERIMETER. FLOOR OUTLET WITH POWER & DATA, POWER, DATA, AND CABLE FOR TV
11	STORAGE		CPT1	RB1	PT1	ACT1	
12	HALL		CPT1	RB1	PT1	ACT1	
13	LAUNDRY		VCT	RB1	PT1	ACT2	
14	ADA BATH		TILE	TILE BASE	PT1	ACT2	MOISTURE RESISTANT GYPSUM BOARD WITH TILE TO 6'-0" AFF
15	HALL		CPT1	RB1	PT1	ACT1	
16	BATH		TILE	TILE BASE	PT1	ACT2	MOISTURE RESISTANT GYPSUM BOARD WITH TILE TO 6'-0" AFF
17	CLO		CPT1	RB1	PT1	ACT1	
18	BUNK		CPT1	RB1	PT1	ACT1	ROOM TO HAVE CONTINUOUS SMOKE RATED ASSEMBLY
19	BUNK		CPT1	RB1	PT1	ACT1	ROOM TO HAVE CONTINUOUS SMOKE RATED ASSEMBLY
20	WORKOUT		LVT1	RB1	PT1	ACT1	CHAIR RAIL AND FULL HEIGHT MIRROR ON SOUTH WALL

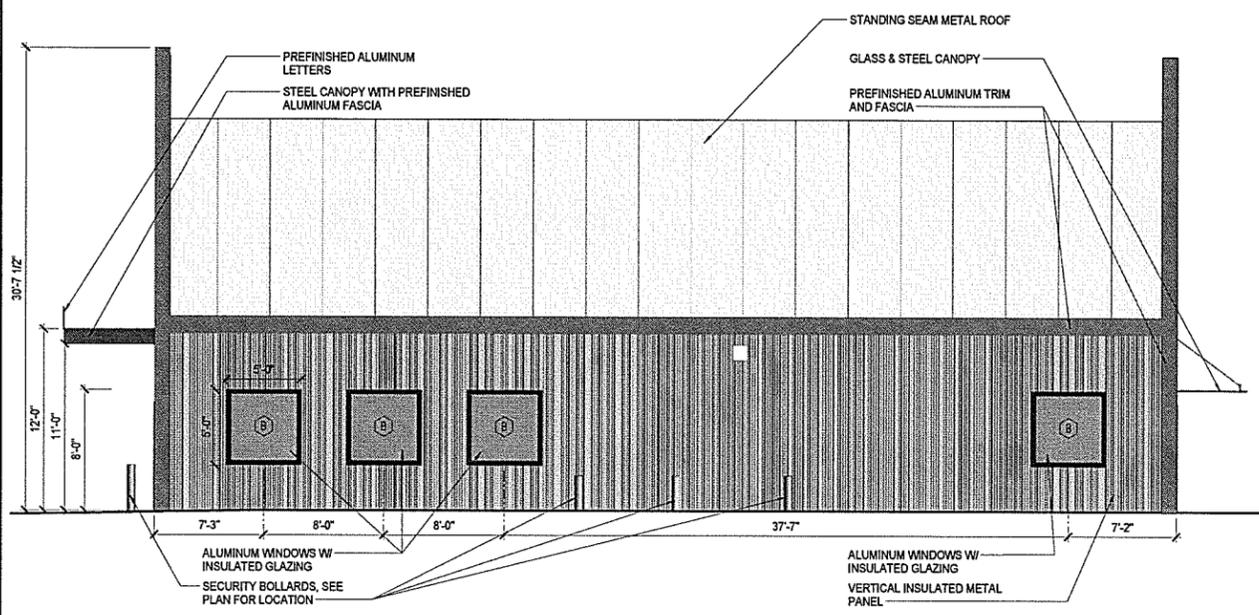
NOTE: ALL SPACED TO HAVE RADIANT HEAT FLOORS. LAUNDRY RM #13, HALL #12, HALL #15, & BUNK ROOMS TO HAVE ACOUSTIC RATE WALL ASSEMBLY



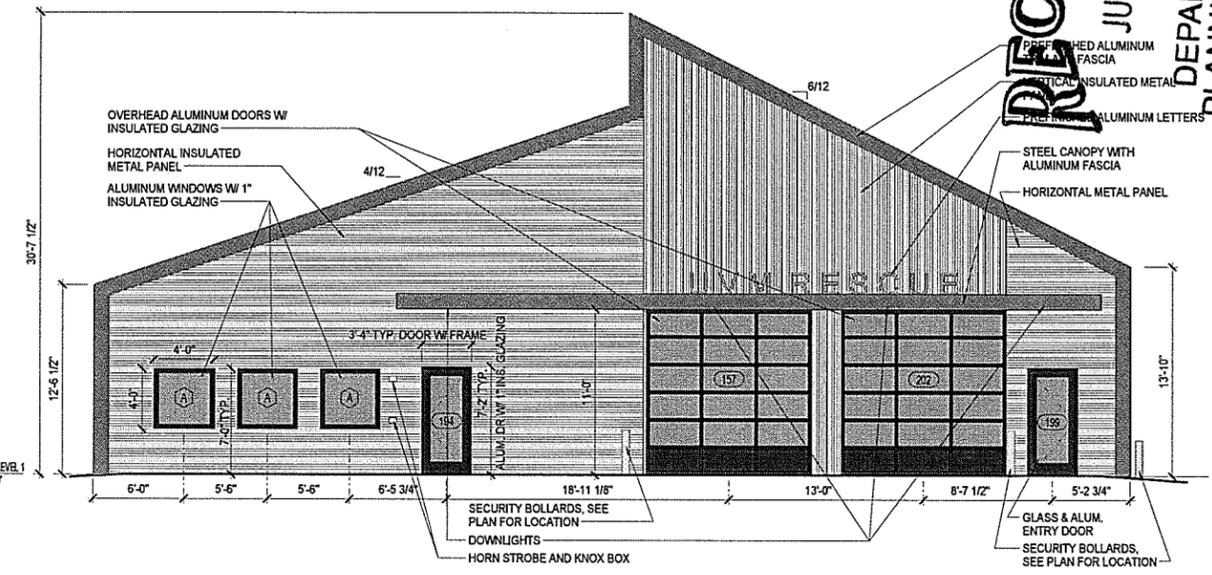
**3 ROOF PLAN**  
SCALE: 1/16" = 1'-0"

6/29/16 12:27 PM

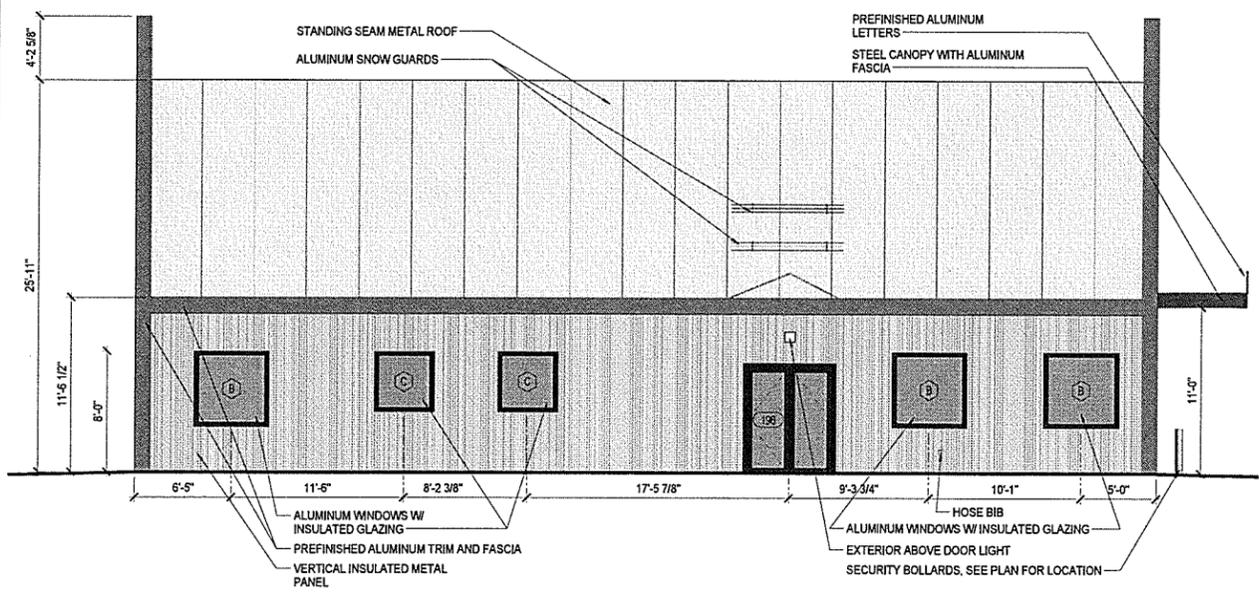
**RECEIVED**  
 JUN 29 2016  
 DEPARTMENT OF  
 PLANNING & ZONING



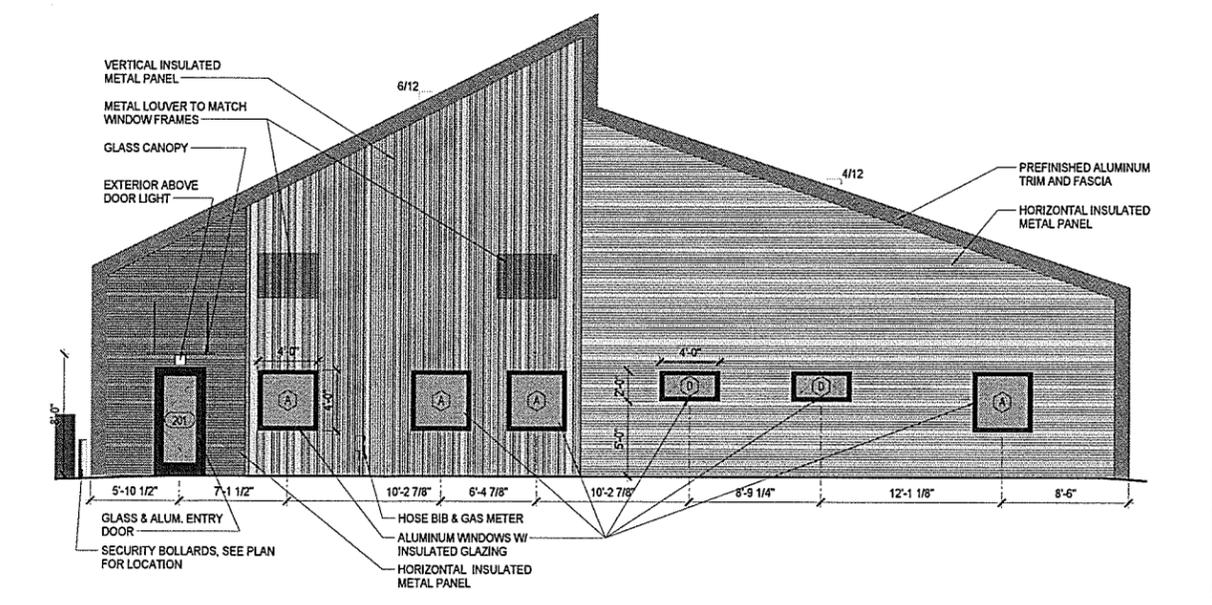
1 EXTERIOR ELEVATION - NORTH  
 SCALE: 3/16" = 1'-0"



2 EXTERIOR ELEVATION - EAST  
 SCALE: 3/16" = 1'-0"



3 EXTERIOR ELEVATION - SOUTH  
 SCALE: 3/16" = 1'-0"



4 EXTERIOR ELEVATION - WEST  
 SCALE: 3/16" = 1'-0"

RESCUE FACILITY  
 UNIVERSITY OF  
 VERMONT

BURLINGTON, VT

PROJECT NO:  
**A1321**

DATE: 06/03/16  
 SCALE: 3/16" = 1'-0"

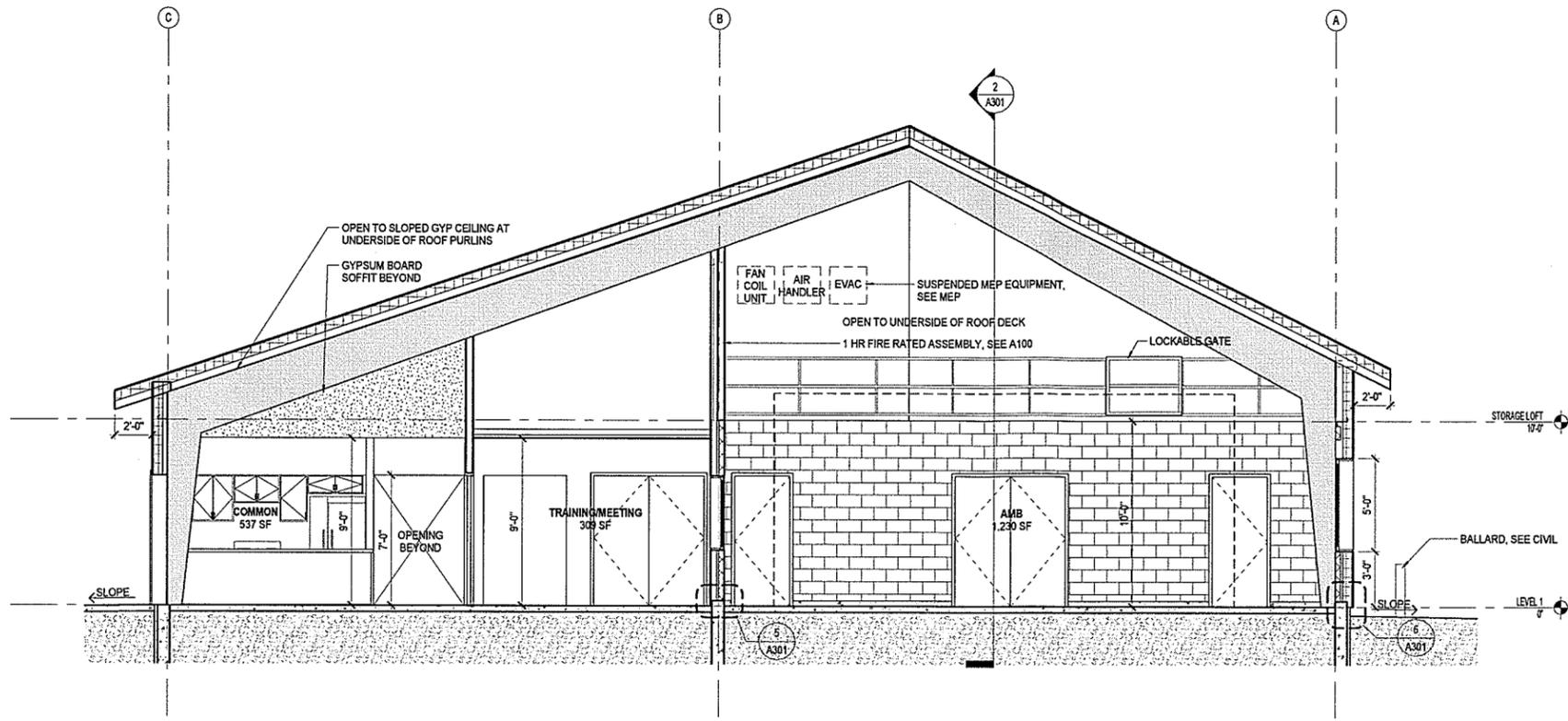
DRAWN BY: EC  
 CHECKED BY: AH

DATE LOG:  
 ZONING SUBMISSION 06/06/16

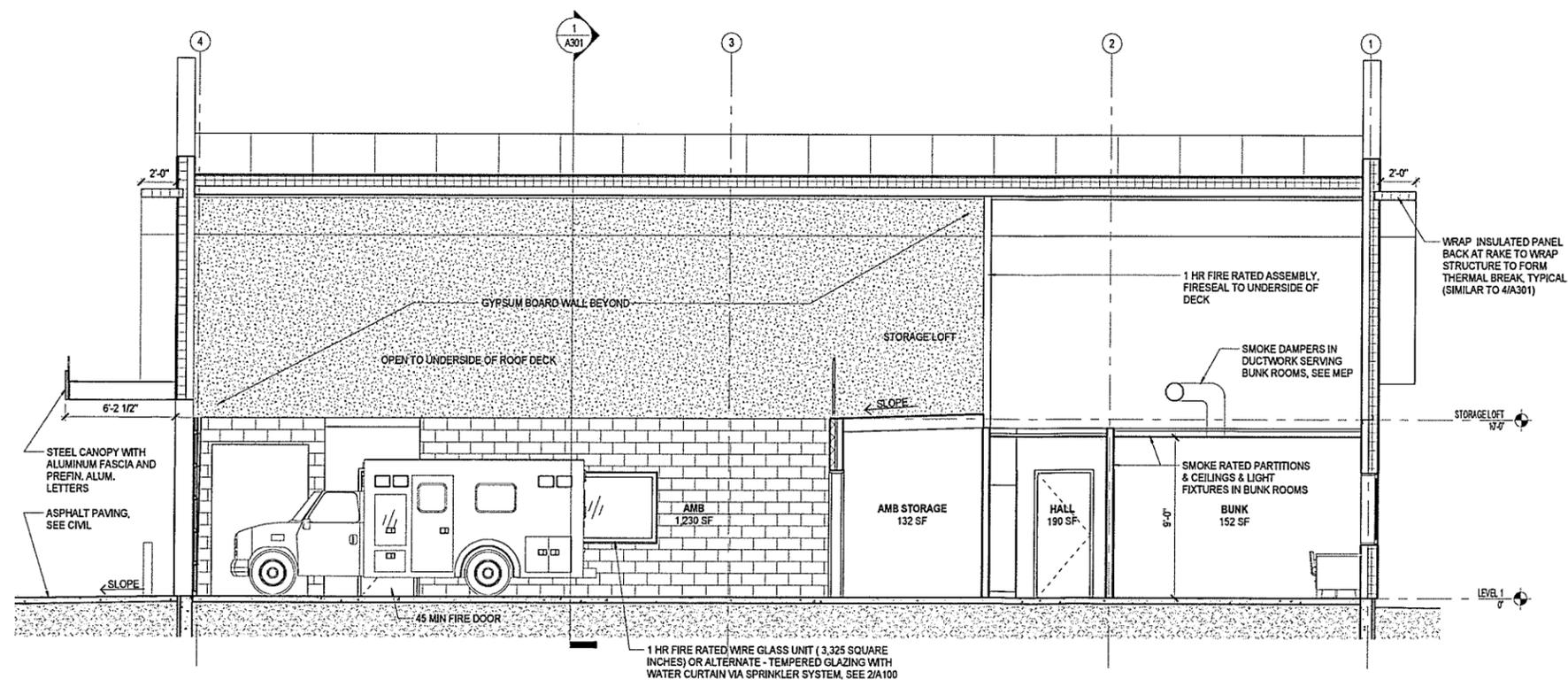
EXTERIOR  
 ELEVATIONS

SHEET NO:  
**A200**

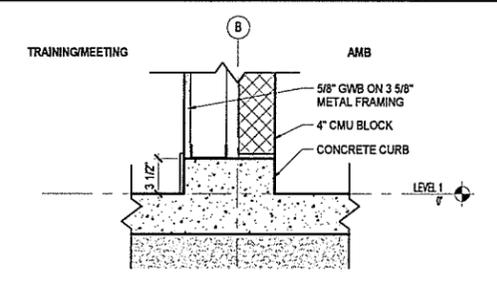
© 2013 Freeman | French | Freeman



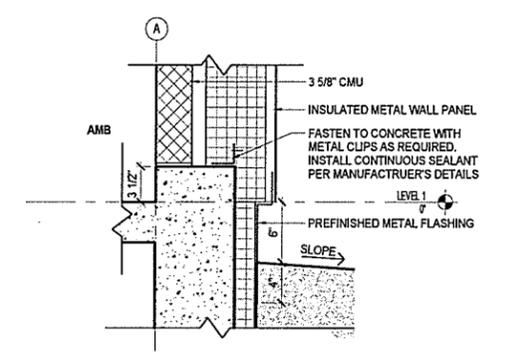
1 BUILDING SECTION, NORTH/SOUTH  
A301 SCALE: 1/4" = 1'-0"



2 BUILDING SECTION, EAST/WEST  
A301 SCALE: 1/4" = 1'-0"



5 BASE OF INTERIOR WALL DETAIL @ AMBULANCE BAY  
A301 SCALE: 1 1/2" = 1'-0"



6 BASE OF EXTERIOR WALL @ EXTERIOR WALL @ AMBULANCE BAY  
A301 SCALE: 1 1/2" = 1'-0"

RECEIVED  
JUN 29 2016

DEPARTMENT OF  
PLANNING & ZONING



freeman | french | freeman  
11 Main Street - Burlington, VT 05401  
802.249.4344 www.frfreeman.com  
Architect • Planning • Urban

RESCUE FACILITY  
UNIVERSITY OF  
VERMONT

BURLINGTON, VT

PROJECT NO:  
A1321

COPY/REVISION DATE: 02/13/14 SCALE: As Indicated

DRAWN BY: EC CHECKED BY: AH

DATE: ZONING SUBMISSION 06/09/16

BUILDING  
SECTIONS

A301

Product data sheet

Wall luminaire

RECEIVED

BEGA Lichttechnische Spezialfabrik  
Hespenbüsch D - 58708 Menden

BEGA

22 380

Project · Reference number

JUN 29 2016 Date

**Application**

LED wall luminaire for orientating lighting tasks.  
The used LED technique offers durability  
and optimal light output with low power  
consumption at the same time.

**Product description**

Luminaire made of aluminium alloy, aluminium  
and stainless steel

Matt safety glass

Silicone gasket

2 fixing holes  $\varnothing$  5 mm

274 mm spacing

2 cable entries for through-wiring of mains

supply cable up to  $\varnothing$  10.5 mm,

max.  $3 \times 1.5^D$

Connecting terminal  $2.5^D$

Earth conductor connection

LED power supply unit

220-240 V  $\sim$  0/50-60 Hz

DC 176-264 V

DC Start  $\geq$  198 V

Safety class I

Protection class IP 65

Dust tight and protection against water jets

Impact strength IK05

Protection against mechanical

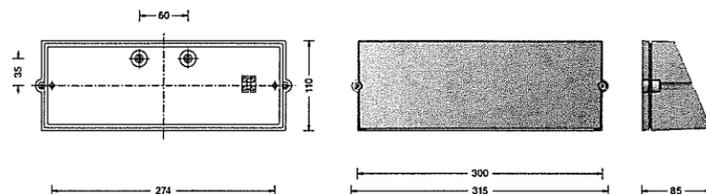
impacts < 0.7 joule

CE – Conformity mark

Weight: 1.6 kg

DEPARTMENT OF  
PLANNING & ZONING

www.bega.com

**Lamp**

Module connected wattage 11.2 W

Luminaire connected wattage 14 W

Rated temperature  $t_a = 25$  °C

Service life criteria 50 000 h/L<sub>70</sub>

**Article No. 22 380**

Colour temperature 3000 K.

Also available with 4000 K on request.

3000 K – article number

4000 K – article number + **K4**

Colour graphite or silver

graphite – article number

silver – article number + **A**

**22 380**

Module designation LED-0204/830

Colour temperature 3000 K

Colour rendering index  $R_a > 80$

Module luminous flux 875 lm

Luminaire luminous flux 490 lm

Luminaire luminous efficiency 35 lm/W

**22 380 K4**

Module designation LED-0204/840

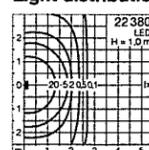
Colour temperature 4000 K

Colour rendering index  $R_a > 80$

Module luminous flux 940 lm

Luminaire luminous flux 526 lm

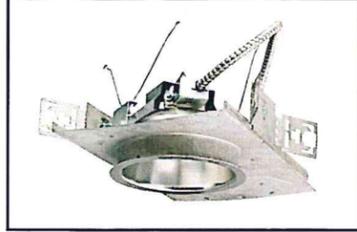
Luminaire luminous efficiency 37,6 lm/W

**Light distribution**

RECEIVED

DATE: JUN 29 2016

FIRM NAME: DEPARTMENT OF  
PROJECT: PLANNING & ZONING



6" LED Downlight  
**LC6LED**  
120 or 277V  
0-10V Dimming Option

**APPLICATIONS:**

LiteFrame Commercial (LC6LED) is a 6" commercial grade LED downlight with available outputs between 1000-1800 lumens. This is suitable to replace most CFL downlighting applications, while realizing substantial energy and maintenance savings. Rated for a minimum of 50,000 hours life (70% lumen maintenance) with ambient plenum temperatures up to 35°C (LED5), 28°C (LED6), 25°C (LED7). Free Air Flow around fixture is required for optimal life performance. This product is not recommended for use with 3rd party "FIREHAT" or insulation barriers.

**HOUSING:**

One-piece 22 gauge non-corrosive steel platform. Pre-wired J-box with snap-on cover for easy access. Snap-in connection from driver compartment allows easy installation of light engine/trim assembly and can be upgraded to accommodate technology improvements. Approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90°C through wiring.

**REFLECTOR:**

High purity aluminum, Alzak, iridescence suppressed, semi-diffuse reflector. Self-trim standard. Painted white self-trim (WT) available as option.

**LED LIGHT ENGINE:**

The LC6LED uses either 36, 48, 60 mid power Nichia LEDs, specifically mixed to provide a minimum of 80 CRI with 3 SDCM color consistency. The use of multiple mid power LEDs allows for optimal thermal management by effectively spreading the heat over a larger area and eliminating hot spots on the LEDs. A diffuse, yet highly transmissive lens obscures the view of the LEDs and creates a smooth, even look from below. The light engine is available in multiple Kelvin temperatures and the system is designed to provide optimal life and lumen maintenance (50,000 hours at 70% lumen maintenance). The reflector/light engine assembly is mechanically retained to the housing.

**LED DRIVER:**

The LC6LED utilizes a 25 watt constant current Thomas Research Products LED driver. This same driver is capable of running all three different lumen outputs, resulting in a reduction of housing skus and simplified specification. The driver is UL8750 and Class II compliant.

**DIMMING:**

A 0-10V dimming option is available (DM), providing flicker-free dimming down to 10%. See list of compatible dimmers on page (4). For the sizing of the control circuit, the dimming circuit may require up to 2mA of sink current.

**INSTALLATION:**

Light commercial bar hangers included. Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1 1/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6). Wall wash orientation may be field adjusted in 90° increments to housing.

**CERTIFICATIONS:**

CSA certified to US and Canadian safety standards. Suitable for wet locations (EM & WW damp location). ENERGY STAR qualified on standard downlight.

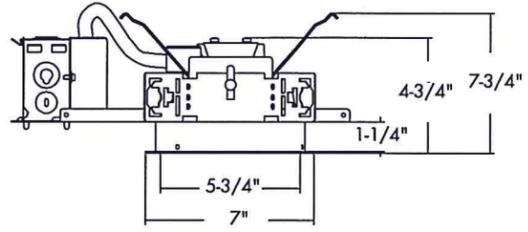
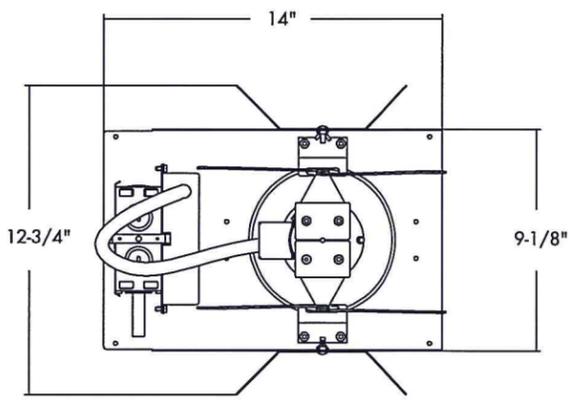
**WARRANTY:**

5 year warranty. See www.prescolite.com for details.

**LiteFrame**



Ceiling Cutout: 6 1/4"  
Maximum Ceiling Thickness 1 1/4"  
For conversion to millimeters,  
multiply inches by 25.4  
Not to Scale



6LCLED 5 & 6

\*See page 4 for 6LCLED 7 line art  
\*See page 4 for 6LCLEDEM line art

Order housing, reflector, and accessories separately

CATALOG NUMBER:

EXAMPLE: LC6LED120DM - 6LCLED535K8WT

HOUSING	VOLTAGE	HOUSING OPTIONS	TRIM APERTURE	OUTPUT	LED COLOR TEMP	CRI	REFLECTOR FINISH	REFLECTOR OPTIONS	ACCESSORIES
<input type="checkbox"/> <b>LC6LED</b> 6" LED Housing	<input type="checkbox"/> <b>120V</b> <input type="checkbox"/> <b>277V</b> <input type="checkbox"/> <b>347<sup>4,5</sup></b> 347V	<input type="checkbox"/> <b>Blank</b> No Dimming <input type="checkbox"/> <b>DM</b> 0-10V dimming to 10% <input type="checkbox"/> <b>DM1<sup>8</sup></b> 0-10V dimming to 1% <input type="checkbox"/> <b>EM<sup>3,5</sup></b> Badine BSL310C- DF Battery Pack with integral test switch and indicator light <input type="checkbox"/> <b>EMR</b> Badine BSL310C Battery Pack with remote test switch and indicator light <input type="checkbox"/> <b>CP<sup>4,7</sup></b> Chicago Plenum-	<input type="checkbox"/> <b>6LCLED</b> 6" Open Reflector/ Light Engine Assembly	<input type="checkbox"/> <b>5</b> Nominal 2700 Delivered 1000 Lumens <input type="checkbox"/> <b>6</b> Nominal 1400 Lumens Delivered <input type="checkbox"/> <b>7</b> Nominal 1800 Lumens Delivered	<input type="checkbox"/> <b>27K</b> 2700 Kelvin <input type="checkbox"/> <b>30K</b> 3000 Kelvin <input type="checkbox"/> <b>35K</b> 3500 Kelvin <input type="checkbox"/> <b>40K</b> 4000 Kelvin <input type="checkbox"/> <b>50K</b> 5000 Kelvin	<input type="checkbox"/> <b>8</b> 80+ CRI	<input type="checkbox"/> <b>Blank</b> Clear Alzak, Semi- Diffuse  <b>REFLECTOR COLOR</b> <input type="checkbox"/> <b>WH<sup>1</sup></b> White Paint	<input type="checkbox"/> <b>WT</b> White Trim <input type="checkbox"/> <b>EM<sup>3,5</sup></b> Pre-punched reflector to accept integral test switch <input type="checkbox"/> <b>WF</b> Wide Flange <input type="checkbox"/> <b>WW<sup>5,6</sup></b> Wall Wash <input type="checkbox"/> <b>CP<sup>4,7</sup></b> Chicago Plenum	<input type="checkbox"/> <b>B24</b> Set of two(2) 24" bar hangers for T-bar ceilings <input type="checkbox"/> <b>B6</b> Set of two (2) bar hangers for ceiling joist up to 24" centers <input type="checkbox"/> <b>LG15<sup>2,4</sup></b> Dual-Lite100VA Surface Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> <b>LG1R<sup>2,4</sup></b> Dual-Lite100VA Recessed Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> <b>LG1T<sup>2,4</sup></b> Dual-Lite100VA Recessed Ceiling T-Grid LiteGear Emergency Lighting Inverter <input type="checkbox"/> <b>LG2S<sup>2,4</sup></b> Dual-Lite 250 VA Surface Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> <b>SCA6D</b> Sloped ceiling adapter (see note on page 4)

<sup>1</sup> Requires WT option  
<sup>2</sup> See LC6LED and LiteGear Compatibility on page 3  
<sup>3</sup> EM must be selected on both the housing and the trim, not compatible with WW Trim  
<sup>4</sup> Not compatible with EM or EMR  
<sup>5</sup> Damp location only  
<sup>6</sup> Not compatible with EM (EMR is compatible)  
<sup>7</sup> CP must be selected on both the housing and the trim, not compatible with WW Trim  
<sup>8</sup> Not compatible with CP

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.  
Web: [www.prescolite.com](http://www.prescolite.com) • Tech Support: (888) 777-4832



LFR-LED-013

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
■	Wall	2	Bega 22 380 3500K	22380K4	LED 11,2W	be-22380K4.les	526	0.90	14
○	Shoe	3	GTSOLM21-MH-GR-NL	1910-2		GTSOLM21-MH-GR-NLIES	Absolute	0.81	48.1
□	Lntm	9	OMNI-40-4K-ME	Circular white plastic lamp with rubber frosted lens	96 White LEDs	OMNI-40-4K-11225212-1234532.les	Absolute	0.81	40.71

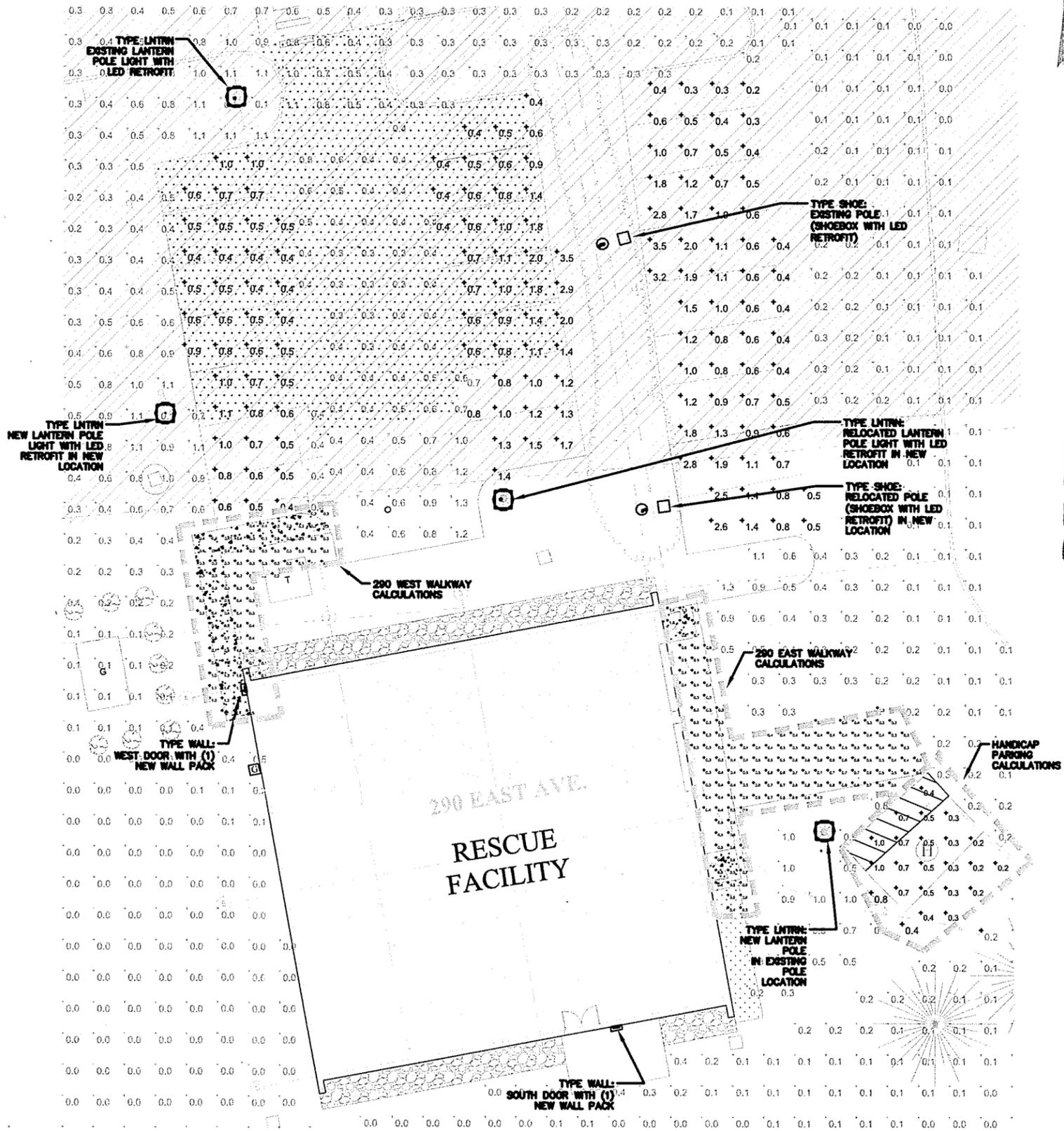
**PARKING LOT STATISTICS**

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CITY OF BURLINGTON, VT	DO NOT EXCEED REQUIREMENTS	4.0 fc			20:1	
<b>284 EAST AVENUE</b>						
9 Existing Parking Spaces	+	1.0 fc	3.5 fc	0.2 fc	17.5:1	5.0:1
284 - (7) Parking Spaces	+	0.5 fc	1.1 fc	0.3 fc	3.7:1	1.7:1
Main Parking Lot_North	+	0.8 fc	3.5 fc	0.4 fc	8.8:1	2.0:1
<b>290 EAST AVENUE</b>						
Handicap Parking Space	+	0.5 fc	1.0 fc	0.2 fc	5.0:1	2.5:1

**SIDEWALK & PATHWAY STATISTICS**

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CITY OF BURLINGTON, VT	DO NOT EXCEED REQUIREMENTS	0.5 fc	2.0 fc			
<b>284 EAST AVENUE</b>						
284 - Sidewalk	+	0.5 fc	1.3 fc	0.2 fc	6.5:1	2.5:1
<b>290 EAST AVENUE</b>						
290 - East Side Pathway	+	0.5 fc	1.8 fc	0.3 fc	4.7:1	1.7:1
290 - West Sidewalk	+	0.5 fc	1.7 fc	0.1 fc	17.0:1	5.0:1

REFER TO SHEET ES-2 FOR ENLARGED WALKWAY PHOTOMETRICS



**fff**  
 freeman | french | freeman  
 81 Maple Street  
 Burlington, VT 05401  
 Tel: (802) 864-6844

**K&L**  
 Krebs & Lansing Consulting Engineers, Inc.  
 164 Main Street, Suite 201  
 Colchester, VT 05446  
 T: (802) 878-0375  
 F: (802) 878-9518  
 email@kresbsanchr-sing.com

**KIRICK ENGINEERING ASSOCIATES, P.C.**  
 Electrical / Telecom Consulting  
 109 Williston Road  
 Williston, Vermont 05495  
 Phone 802-455-5731 | 888-377-7172

**RECEIVED**

JUN 29 2016

**DEPARTMENT OF PLANNING & ZONING**

290 EAST AVE  
 PARCEL

**RESCUE FACILITY  
 UNIVERSITY OF VERMONT**

**BURLINGTON, VERMONT**

FFF Project No. A1321  
 Scale 1" = 20'  
 Drawn by DJG  
 Checked by \_\_\_\_\_  
 Date 6/20/2016

Revisions	No.	Date

**PHOTOMETRICS  
 POINT BY POINT**

Drawing No.

**ES-1**



freeman | french | freeman  
81 Maple Street  
Burlington, VT 05401  
Tel: (802) 864-6844

Krebs & Lansing Consulting Engineers, Inc.  
164 Main Street, Suite 201  
Colchester, VT 05446  
T: (802) 878-0375  
F: (802) 878-9618  
email@krcbsanctansing.com

KIRICK ENGINEERING ASSOCIATES, P.C.  
Electrical / Telecom Consulting  
5399 Williston Road  
Suite 100  
Williston, Vermont 05495  
Phone: 802-655-5731 Fax: 888-844-7172

290 EAST AVE  
PARCEL

RESCUE FACILITY  
UNIVERSITY OF  
VERMONT

BURLINGTON, VERMONT

FFF Project No. A1321  
1" = 20"  
Drawn by DJG  
Checked by  
6/20/2016

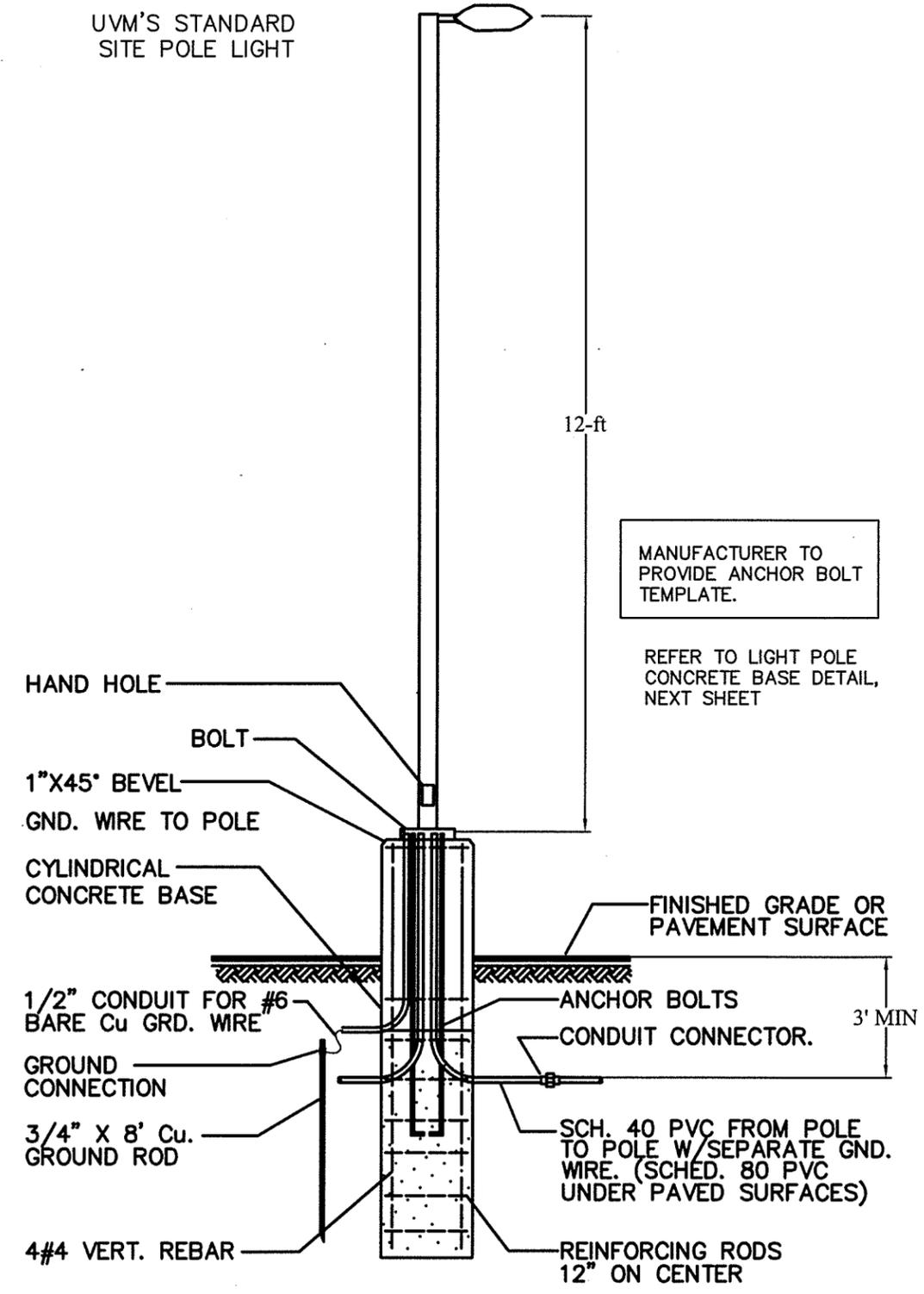
Revisions	No.	Date

SITE POLE  
DETAILS

Drawing No.

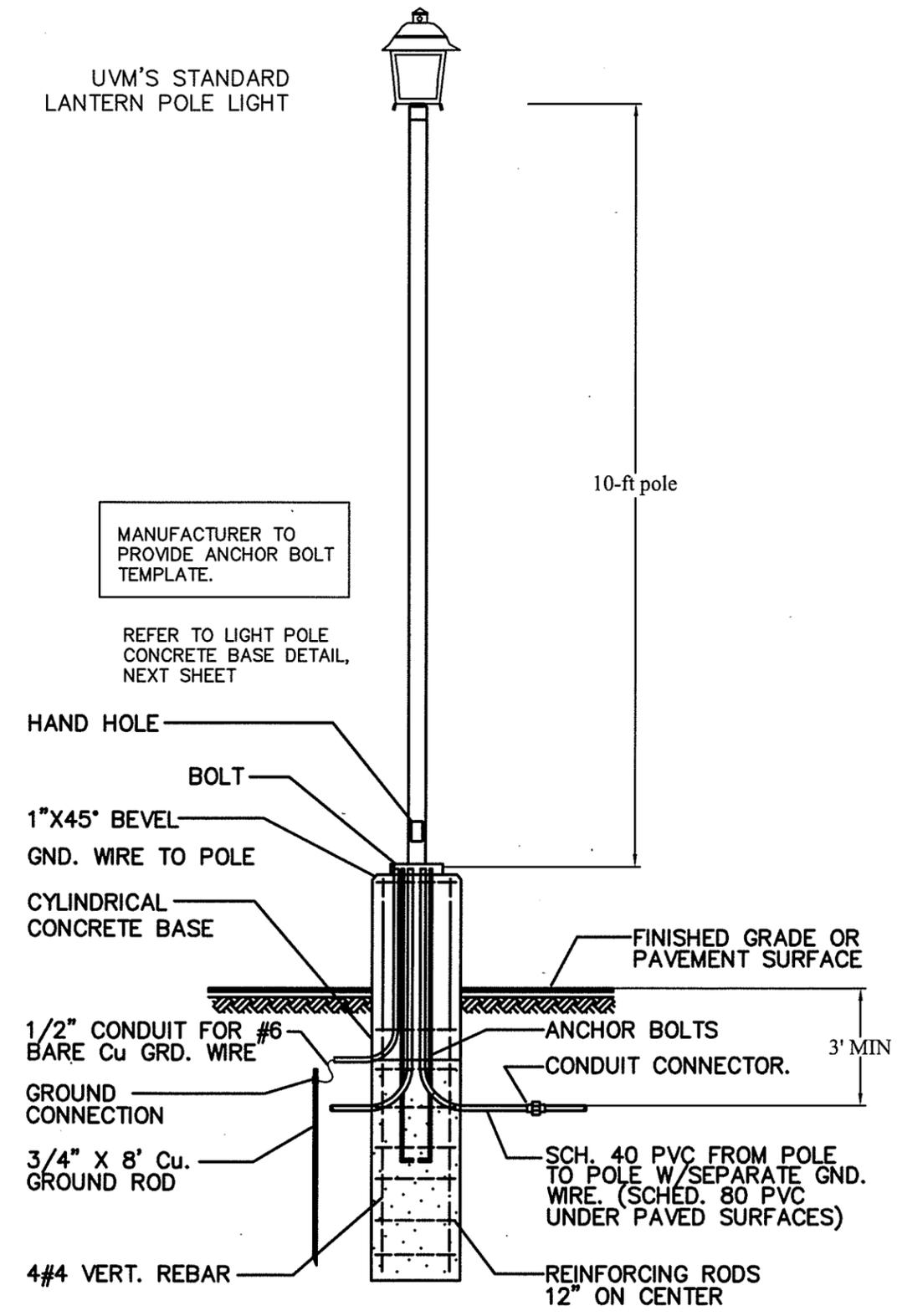
ES-3

UVM'S STANDARD  
SITE POLE LIGHT



TYPICAL PARKING LOT LIGHT POLE DETAIL  
SCALE N.T.S.

UVM'S STANDARD  
LANTERN POLE LIGHT



SINGLE LANTERN LIGHT POLE DETAIL  
SCALE N.T.S.



**UVM RESCUE**  
aerial looking southwest

RECEIVED

JUN 29 2016

DEPARTMENT OF  
PLANNING & ZONING



freeman | french | freeman