

Burlington Design Advisory Board

149 Church Street, City Hall

Burlington, VT 05401

www.burlingtonvt.gov/PZ/DAB

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Matthew Bushey
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Ron Wanamaker
Steven Offenhartz
Tom Cullins
Philip Hammerslough, Alt.
Phil Wagner, Alt.



DESIGN ADVISORY BOARD Tuesday June 25th 2019 at 3:00 PM Conference Room 12, City Hall, Burlington, VT

1. 19-0981CA; 475 Lake Street (DW-PT, Ward 3C) City of Burlington / CEDO

Deconstruct most of the existing Moran Plant except for the building frame, stabilize the remaining structure, and rework the site for conversion to parkland.

(Project Manager: Scott Gustin)

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Department of Planning and Zoning

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David White, FAICP, Director
Meagan Tuttle, AICP, Comprehensive Planner
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Scott Gustin, AICP, CFM, Principal Planner
Mary O'Neil, AICP, Principal Planner
Ryan Morrison, Associate Planner
Layne Darfler, Planning Technician
Tracey Crocker, Zoning Clerk



TO: Design Advisory Board
FROM: Scott Gustin
DATE: June 25, 2019
RE: 19-0981CA, 475 Lake Street

=====
Zone: DW-PT Ward: 3C
Owner/Applicant: City of Burlington / CEDO

Request: Deconstruct most of the existing Moran Plant except for the building frame, stabilize the remaining structure, and rework the site for conversion to parkland.

OVERVIEW:

The applicant is seeking approval to convert the vacant Moran Plant and the surrounding property into city parkland. Much of the building will be deconstructed. The frame will be left in place and stabilized. The east elevation will be stabilized, reconstructed, or replaced. Rooftops will be replaced. The basement will be filled to the surrounding grade. New structural space will be limited to public restrooms. The site will be converted to green space as additional waterfront parkland.

The Moran FRAME development is a municipal parks project and, therefore, is subject to only limited zoning review per 24 VSA, Sec. 4413, *Limitations on municipal bylaws*. This application may be reviewed only with respect to location, size, height, building bulk, yards, courts, setbacks, density of buildings, off-street parking, loading facilities, traffic, noise, lighting, landscaping, and screening requirements.

ARTICLE 6: DEVELOPMENT REVIEW STANDARDS

Part 1, Land Division Design Standards

Not applicable.

Part 2, Site Plan Design Standards

Sec. 6.2.2, Review Standards

(a) Protection of important natural features

The site contains no significant natural areas as identified in the Open Space Protection Plan. While the site is along the Lake Champlain waterfront, it (and the rest of the downtown waterfront) is not included in the Riparian and Littoral Conservation Zone. Some existing scrub growth will be replaced with grassy lawn as part of the site renovations.

(b) Topographical alterations

Not applicable per 24 VSA, Sec. 4413.

(c) Protection of important public views

Not applicable per 24 VSA, Sec. 4413.

(d) Protection of important cultural resources

Not applicable per 24 VSA, Sec. 4413.

(e) Supporting the use of alternative energy

Not applicable per 24 VSA, Sec. 4413.

(f) Brownfield sites

Not applicable per 24 VSA, Sec. 4413.

(g) Provide for nature's events

Not applicable per 24 VSA, Sec. 4413. The city's stormwater standards under Chapter 26 continue to apply.

(h) Building location and orientation

Not applicable per 24 VSA, Sec. 4413.

(i) Vehicular access

Not applicable per 24 VSA, Sec. 4413.

(j) Pedestrian access

Not applicable per 24 VSA, Sec. 4413.

(k) Accessibility for the handicapped

Not applicable per 24 VSA, Sec. 4413. Accessibility requirements under the City's building code continue to apply.

(l) Parking and circulation

No new parking is required or proposed for this development.

(m) Landscaping, fences, and retaining walls

The land surrounding the Moran Plant is presently a mix of lawn, scrub growth, gravel, and pavement. The site will be wholly revamped and converted to lawn for public park use. No new fencing or retaining walls are proposed.

(n) Public plazas and open space

This project aims to convert this long-vacant power plant and related site into public parkland. Open lawn will be created with pathways interspersed to facilitate pedestrian circulation. Public access throughout the ground level of the structure will be enabled.

(o) Outdoor lighting

Accent lighting will illuminate portions of the building frame as well as the replacement "hoppers."

Site lighting is limited to in and around the public restrooms. The proposed canister and wall pack units are acceptable as cutoff fixtures. Illumination levels; however, are too high. They are limited to an average of 5.0 footcandles per Sec. 5.5.2 of the CDO. Presently, the average is about

15 footcandles immediately around the public restrooms (canister fixtures). Illumination levels associated with the wall pack fixtures are unclear. As “hotspots” under the wall packs are just above 6.0 footcandles, average illumination may be acceptable; however, clarification is needed.

(p) Integrate infrastructure into the design

No new outdoor mechanical equipment is apparent. Only limited new electrical work is proposed. Any new utility lines must be buried.

Part 3, Architectural Design Standards

Sec. 6.3.2, Review Standards

(a) Relate development to its environment

1. Massing, Height, and Scale

While the physical framework and shape of the building will remain, perceived mass will be fundamentally altered by the near total removal of exterior walls. A large, massive industrial building will be converted into a transparent outline. The site and remaining structure will blend, affording uninterrupted access throughout. The proposed public restrooms are small, tucked inside the remaining frame. They will have little influence on the building’s perceived mass and scale.

2. Roofs and Rooflines

Not applicable per 24 VSA, Sec. 4413.

3. Building Openings

Not applicable per 24 VSA, Sec. 4413.

(b) Protection of important architectural resources

Not applicable per 24 VSA, Sec. 4413.

(c) Protection of important public views

Not applicable per 24 VSA, Sec. 4413.

(d) Provide an active and inviting street edge

Not applicable per 24 VSA, Sec. 4413.

(e) Quality of materials

Not applicable per 24 VSA, Sec. 4413.

(f) Reduce energy utilization

Not applicable per 24 VSA, Sec. 4413.

(g) Make advertising features complimentary to the site

The project plans include retention of the existing “City of Burlington” sign facing south along the upper portion of the structure. This sign is a preexisting nonconformity and may be retained. The plans also include the addition of “Electric Light Plant” under this existing sign. While such signage formerly existed, it has long since been removed. The proposed signage is likely not permissible due to its height. Existing and proposed sign area is not evident and must be indicated. An upper limit of 200 sf applies. There is also a smaller “Moran” sign newly proposed on the east

elevation. This sign appears to be acceptable. All exterior signage is subject to separate zoning permit review.

(h) Integrate infrastructure into the building design

The building will be largely stripped down. No heating, cooling, or related ventilation equipment is proposed. Only minor utility work is associated with this proposal.

(i) Make spaces safe and secure

The only new occupied building space included in this proposal is the public restroom. The area in and around this restroom will be illuminated.

RECOMMENDED MOTION:

Review and forward to the Development Review Board subject to the following conditions:

1. Revise the proposed outdoor lighting to comply with the applicable illumination standards of Sec. 5.5.2.
2. Any new utility lines must be buried.

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eman French Freeman, Inc.
Maple Street
Wilmington, Vermont 05401
Tel: (802) 864-6844

Engineering Ventures
8 Flynn Avenue, Suite 2A
Wilmington, Vermont
Tel: (802) 863-6225

Group
1 Church Street, Suite 300
Burlington, Vermont 05401
Tel: (802) 862-0098

Consulting INC.
Union Street
Mooski, Vermont 05404
(802) 655-1753

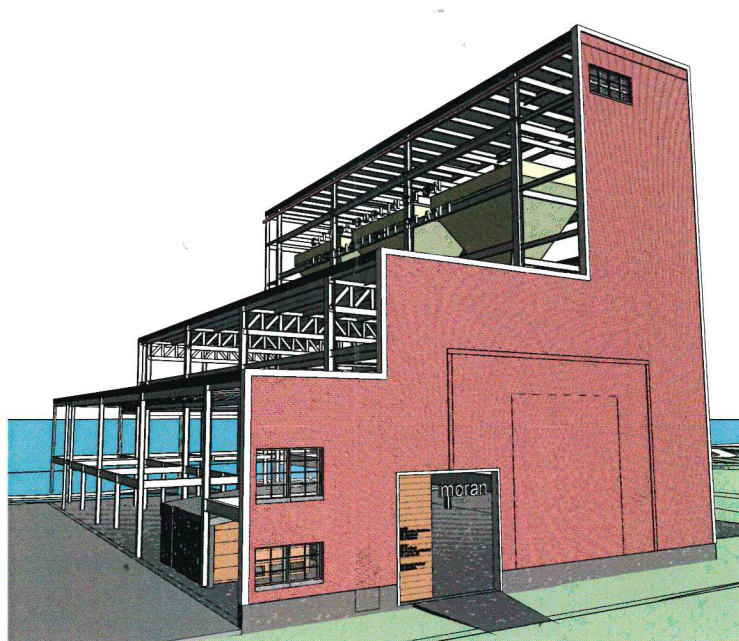
PLANNING AND ZONING

JUNE 12, 2019



freeman | french | free

81 Maple Street • Burlington Vermont
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ACT	ACOUSTICAL CEILING TILE	MATL	MATERIAL
ADA	AMERICANS WITH DISABILITIES ACT	MAX	MAXIMUM
AFF	ABOVE FINISH FLOOR	MECH	MECHANICAL
ALUM	ALUMINUM	MFR	MANUFACTURER
APPROX	APPROXIMATELY	MIN	MINIMUM / MINUTE
		MISC	MISCELLANEOUS
		MO	MASONRY OPENING
		MTD	MOUNTED
BD	BOARD	MTL	METAL
BLDG	BUILDING		
		NIC	NOT IN CONTRACT
CG	CORNER GUARD	NTS	NOT TO SCALE
CJ	CONTROL JOINT		
CL	CENTER LINE	OC	ON CENTER
CLG	CEILING	OFF	OFFICE
CLR	CLEAR	OH	OPPOSITE HAND OR
CMU	CONCRETE MASONRY UNIT		OVERHEAD
COL	COLUMN	OPP	OPPOSITE
CONC	CONCRETE	OFOI	OWNER FURNISHED
CONT	CONTINUOUS		OWNER INSTALLED
CORR	CORRIDOR	OFCl	OWNER FURNISHED
CPT	CARPET		CONTRACTOR INSTALLED
CT	CERAMIC TILE	OPNG	OPENING
CFCI	CONTRACTOR FURNISHED		
	CONTRACTOR INSTALLED		
CFOI	CONTRACTOR FURNISHED	PL	PLATE
	OWNER INSTALLED	PLAM/P-LAM	PLASTIC LAMINATE
		PLYWD	PLYWOOD
DF	DRINKING FOUNTAIN	PREFAB	PREFABRICATED
DIA	DIAMETER	PT	PRESSURE TREATED
DIM	DIMENSION	PTD	PAINTED
DN	DOWN		
DTL	DETAIL	QT	QUARRY TILE
DWG	DRAWING		
		RCP	REFLECTED CEILING PLAN
EJ	EXPANSION JOINT	REF	REFERENCE/REFRIGERAT
EL/ELEV	ELEVATION	REQD	REQUIRED
		RESIL	RESILIENT
ELEC	ELECTRIC	REV	REVISION
EMER	EMERGENCY	RM	ROOM
ENGR	ENGINEER	RO	ROUGH OPENING
EQ	EQUAL		
EQUIP	EQUIPMENT	SCHED	SCHEDULE
EW	ELECTRIC WATER COOLER	SECT	SECTION
EX/EXIST	EXISTING	SHT	SHEET
		SIM	SIMILAR
EXT	EXTERIOR	SPEC	SPECIFICATION
ETR	EXISTING TO REMAIN	STD	STANDARD
		STL	STEEL
FD	FLOOR DRAIN	SS, ST, STL	STAINLESS STEEL
FEC	FIRE EXTINGUISHER CABINET	STOR	STORAGE
FIN FLR	FINISH FLOOR	STRUCT	STRUCTURAL
FIN	FINISH		
FLR	FLOOR	TEL	TELEPHONE
FRM	FIRE RESISTIVE MATERIAL	TOC	TOP OF CONCRETE
FT	FOOT OR FEET	TOS	TOP OF STEEL
		TOW	TOP OF WALL
GALV	GALVANIZED	TYP	TYPICAL
GW	GYP SUM WALL BOARD	UNO	UNLESS NOTED OTHERWISE
GYP	GYP SUM	UC	UNDER CONTROL
HC	HANDICAP	VB	VINYL BASE
HDW	HARDWARE	VCT	VINYL COMPOSITION TILE
HM	HOLLOW METAL	VERT	VERTICAL
HORIZ	HORIZONTAL	VEST	VESTIBULE
HR	HANDRAIL		
HT	HEIGHT	W/	WITH

CIVIL	EXISTING CONDITIONS & DEMOLITION PLAN
C-100	
C-101	SITE LAYOUT & UTILITIES
<u>LANDSCAPE</u>	
LA-100	SITE PLAN
LA-101	RENDERED SITE PLAN
<u>ARCHITECTURAL</u>	
A-400	EAST ELEVATION OPTIONS
A-405	EXTERIOR ELEVATIONS
A-000	SITE PLAN
A-100	LEVEL 1 PLAN
A-101	ROOF PLAN
A-300	NORTH ELEVATIONS
A-301	EAST ELEVATION
A-302	SOUTH ELEVATION
A-303	WEST ELEVATIONS
A-401	EXTERIOR RENDERINGS
A-402	EXTERIOR RENDERINGS
A-403	EXTERIOR RENDERINGS
A-404	EXTERIOR RENDERINGS
A-500	DETAILS
A-501	BATHROOM
<u>MEP</u>	
P-111	PLUMBING LEVEL ONE PLAN
E-111	ELECTRICAL LEVEL ONE PLAN

1. ALL WORK TO BE DONE IN ACCORDANCE WITH STATE AND LOCAL CODES AND ORDINANCES.
2. ALL WORK PERFORMED TO BE OF ACCEPTED INDUSTRY STANDARDS AND PRACTICES GOVERNING THE HIGHEST DEFINED QUALITY OF WORKMANSHIP.
3. CONTRACTOR TO COORDINATE KEYING REQUIREMENTS WITH THE OWNER AND THOSE SCHEDULED WITHIN THESE DOCUMENTS.
4. FIRE PROTECTION DEVICES, FIRE ALARM DEVICES, EXIT SIGNS AND EMERGENCY LIGHTING ARE TO BE LOCATED AS DIRECTED AND REQUIRED BY CODE AND / OR AUTHORITIES HAVING JURISDICTION.
5. ALL EXTERIOR WOOD BLOCKING AND ALL WOOD IN CONTACT WITH CONCRETE SLABS AND / OR MASONRY TO BE PRESSURE TREATED.
6. CONTRACTOR TO VERIFY LAYOUT AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION AND TO CONSULT WITH THE ARCHITECT REGARDING ANY DISCREPANCIES THAT EXIST WITHIN THESE CONSTRUCTION DOCUMENTS.
7. CONTRACTOR TO COORDINATE WITH THE OWNER FOR ANY ITEMS TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
8. CONTRACTOR IS RESPONSIBLE FOR PERMITS, FEES, ETC. ASSOCIATED WITH THE EXECUTION AND COMPLETION OF THE WORK AS DEFINED IN THE CONTRACT.
9. PROVIDE FIRE TREATED WOOD BLOCKING IN PARTITIONS AS REQUIRED FOR MOUNTING OF CABINETS, SHELVING, GRAB BARS, TACK BOARDS, ETC.
10. ALL WOOD FRAMING/ BLOCKING AND UNIT MASONRY SIZES ARE NOMINAL, UNO.
11. ALL EXPOSED INTERIOR STEEL TO BE PAINTED, EXPOSED EXTERIOR STEEL TO BE GALVANIZED, UNO.
12. ALL INTERIOR PLAN DIMENSIONS FROM FINISHED FACE OF WALLS, UNO.
13. WHERE WALLS OR PARTITIONS ON EITHER SIDE OF A DOOR ARE SHOWN AS SOUND, SMOKE, OR FIRE RATED, THE WALL OR PARTITION OVER THE DOOR SHALL BE RATED TO THE HIGHEST RATING OF THE ADJACENT WALLS AND PARTITIONS, UNLESS OTHERWISE NOTED.
14. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AS DEFINED IN THE A201 GENERAL CONDITIONS. BRING CONFLICTING INFORMATION TO THE ATTENTION OF THE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONFLICTING REQUIREMENTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ARCHITECT WILL RENDER A DECISION ON HOW TO RESOLVE THE CONFLICT AT A LATER DATE.

	METAL STUD FRAMING
	CONCRETE
	MASONRY - BRICK
	MASONRY - CMU
	BATT INSULATION
	RIGID FOAM INSULATION
	RIGID MINERAL FIBER INSULATION
	SPRAY FOAM INSULATION
	EARTH
	GYPSUM BOARD
	STEEL
	ALUMINUM
	CRUSHED STONE
	PLYWOOD

1
A101

SIM

1Ref

A422

Ref

1Ref

SECTION / DETAIL CALL-OUT

MODIFIER

DETAIL NUMBER

SHEET NUMBER

ELEVATION CALL-OUT

VIEW NUMBER

MODIFIER

SHEET NUMBER

ROOM TAG - SEE A900 FOR FINISHES

Room name

101

ROOM NUMBER

WALL TAG - SEE SHEETS A003, A004

11

WALL TYPE

WHERE A WALLTYPE LEADER PASSES THROUGH 2 OR MORE WALLS, ALL OF THOSE WALLS SHALL BE OF THE TYPE INDICATED.

DOOR TAG - SEE SHEET A800

101

DOOR NUMBER

WINDOW TAG

A

SEE SHEET A700

WINDOW TYPE

CURTAINWALL TAG

CW

SEE SHEET A700

CURTAINWALL TYPE

ELEVATION MARK

Name

Elevation

LEVEL NAME

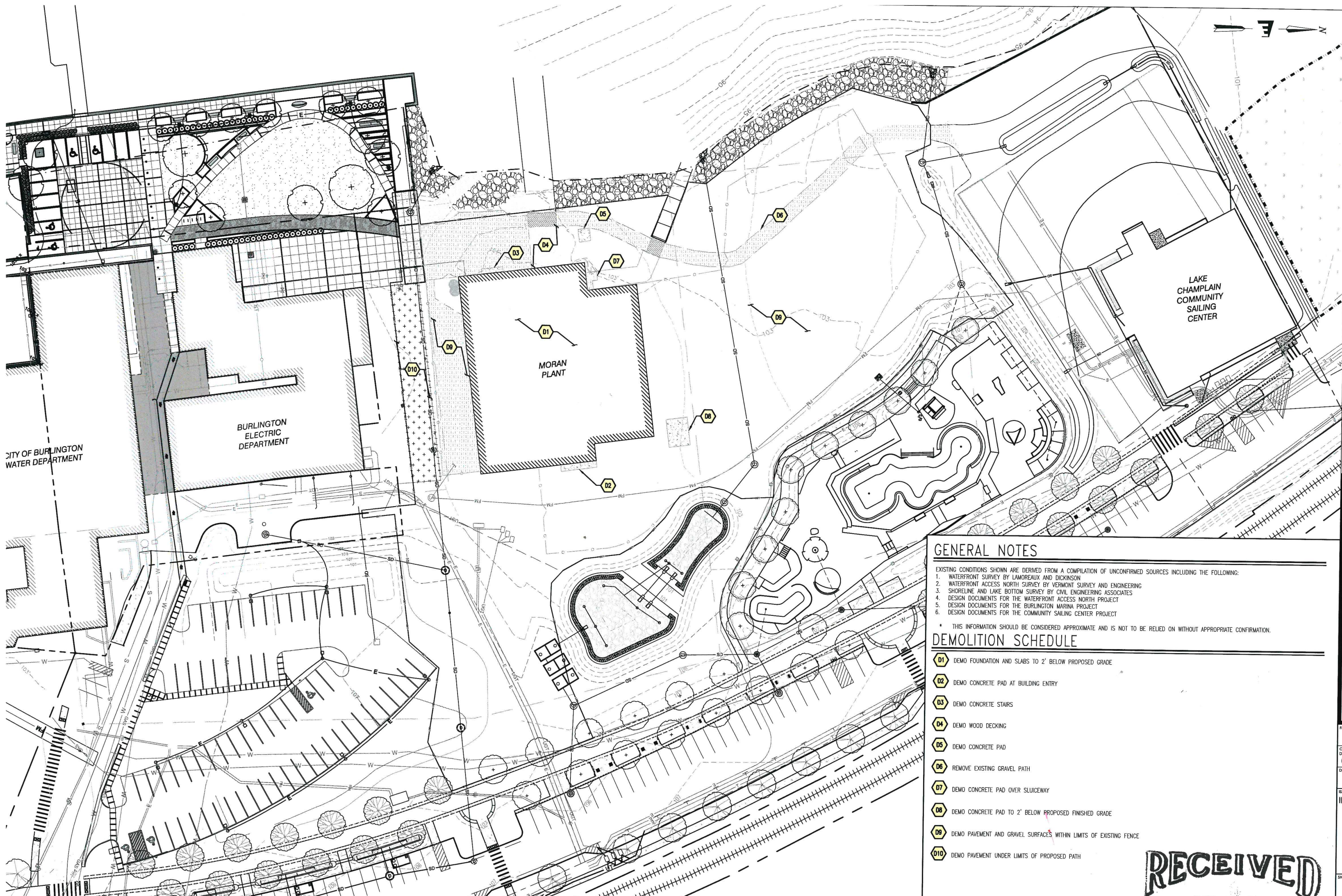
LEVEL ELEVATION IN FEET

CENTER LINE

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DEPARTMENT OF
PLANNING & ZONING



GENERAL NOTES

EXISTING CONDITIONS SHOWN ARE DERIVED FROM A COMPILATION OF UNCONFIRMED SOURCES INCLUDING THE FOLLOWING:

- 1. WATERFRONT SURVEY BY LAMOREAUX AND DICKINSON
- 2. WATERFRONT ACCESS NORTH SURVEY BY VERMONT SURVEY AND ENGINEERING
- 3. SHORELINE AND LAKE BOTTOM SURVEY BY CIVIL ENGINEERING ASSOCIATES
- 4. DESIGN DOCUMENTS FOR THE WATERFRONT ACCESS NORTH PROJECT
- 5. DESIGN DOCUMENTS FOR THE BURLINGTON MARINA PROJECT
- 6. DESIGN DOCUMENTS FOR THE COMMUNITY SAILING CENTER PROJECT

* THIS INFORMATION SHOULD BE CONSIDERED APPROXIMATE AND IS NOT TO BE RELIED ON WITHOUT APPROPRIATE CONFIRMATION.

DEMOLITION SCHEDULE

- D1 DEMO FOUNDATION AND SLABS TO 2' BELOW PROPOSED GRADE
- D2 DEMO CONCRETE PAD AT BUILDING ENTRY
- D3 DEMO CONCRETE STAIRS
- D4 DEMO WOOD DECKING
- D5 DEMO CONCRETE PAD
- D6 REMOVE EXISTING GRAVEL PATH
- D7 DEMO CONCRETE PAD OVER SLUICeway
- D8 DEMO CONCRETE PAD TO 2' BELOW PROPOSED FINISHED GRADE
- D9 DEMO PAVEMENT AND GRAVEL SURFACES WITHIN LIMITS OF EXISTING FENCE
- D10 DEMO PAVEMENT UNDER LIMITS OF PROPOSED PATH

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JUN 10 2019

Freeman
81 Maple Street
802-864-6100
Architects

MORAN
WATERFRONT

Lake
Burlington
VT

PROJECT NO. A1

ORIGINATOR

DATE: 06/11/19

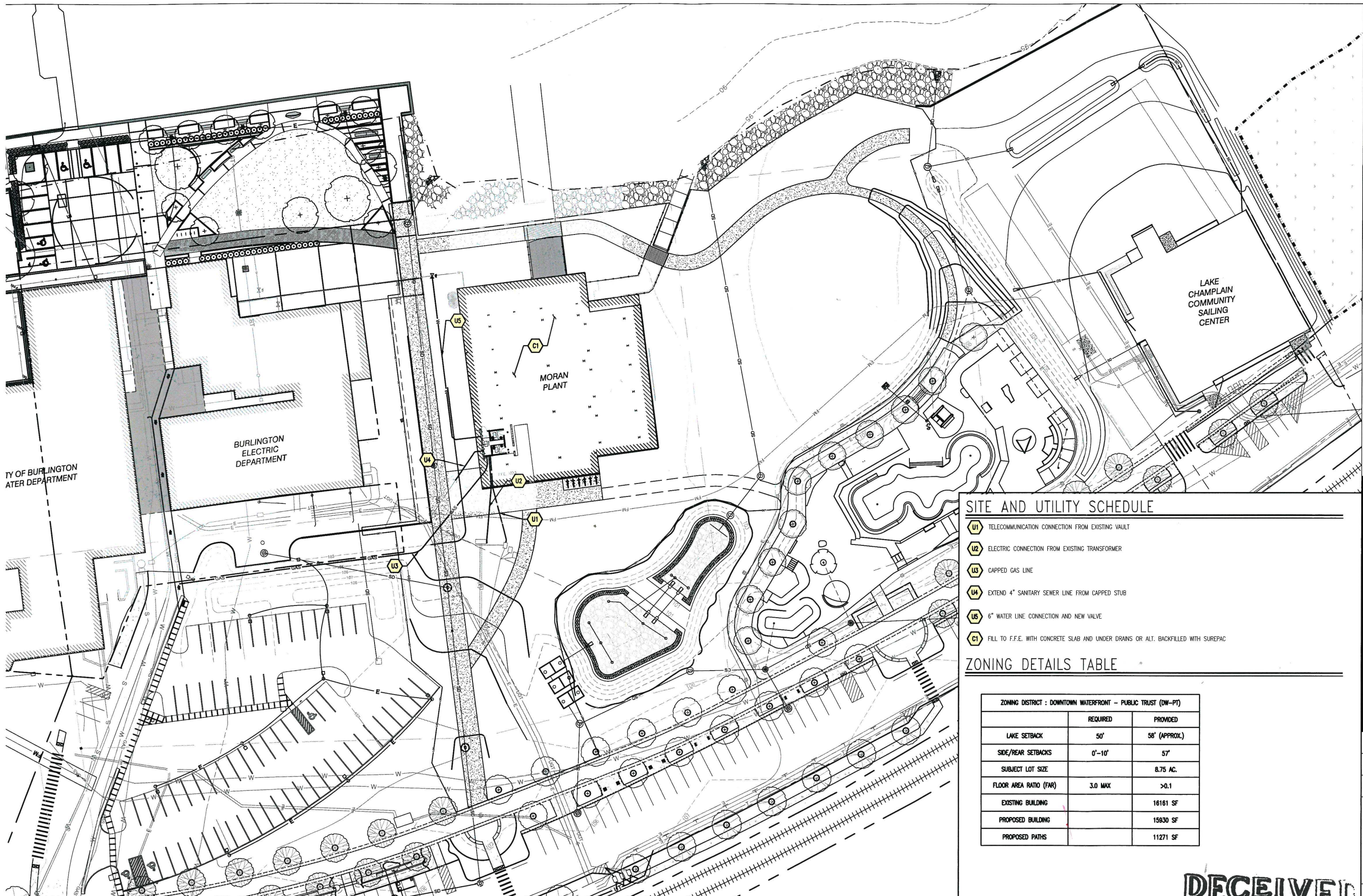
DRAWN BY: JG

ISSUE LOG:

IFZ - 6/

SHEET CONTENTS:

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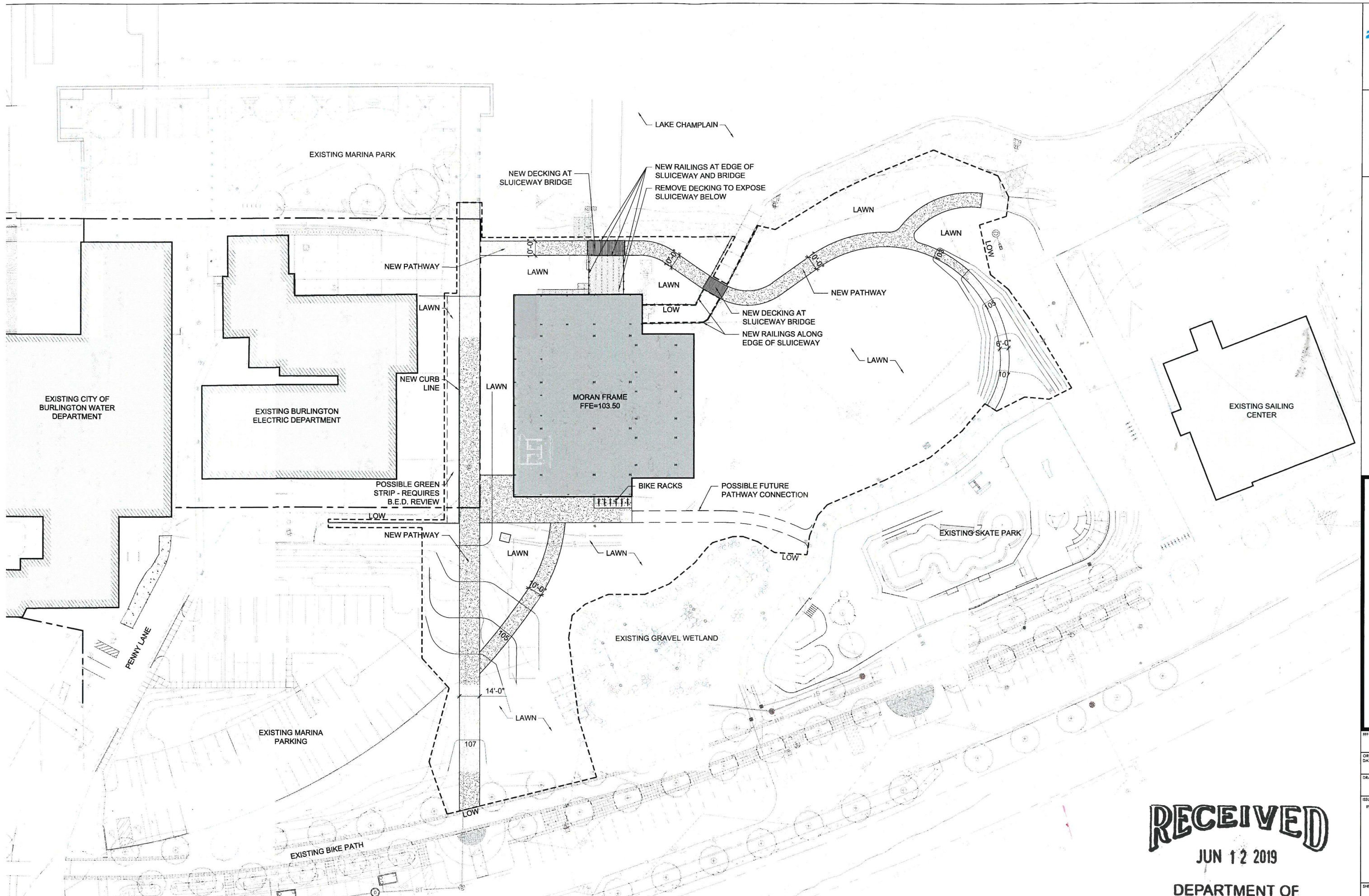


SITE AND UTILITY SCHEDULE

- U1 TELECOMMUNICATION CONNECTION FROM EXISTING VAULT
- U2 ELECTRIC CONNECTION FROM EXISTING TRANSFORMER
- U3 CAPPED GAS LINE
- U4 EXTEND 4" SANITARY SEWER LINE FROM CAPPED STUB
- U5 6" WATER LINE CONNECTION AND NEW VALVE
- C1 FILL TO F.F.E. WITH CONCRETE SLAB AND UNDER DRAINS OR ALT. BACKFILLED WITH SUREPAC

ZONING DETAILS TABLE

ZONING DISTRICT : DOWNTOWN WATERFRONT - PUBLIC TRUST (DW-PT)		
	REQUIRED	PROVIDED
LAKE SETBACK	50'	58' (APPROX.)
SIDE/REAR SETBACKS	0'-10'	57'
SUBJECT LOT SIZE		8.75 AC.
FLOOR AREA RATIO (FAR)	3.0 MAX	>0.1
EXISTING BUILDING		16161 SF
PROPOSED BUILDING		15930 SF
PROPOSED PATHS		11271 SF



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Landscape Architecture
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tel: 802.255.1111
www.se-landscape.com

freeman | franklin
81 Maple Street
802-964-6888
Architecture + Planning

FFC PROJECT NO: 16-012

ORIGINATOR:
DATE: 10/12/2019

DESIGNED BY:
RD

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ROOF PLAN GENERAL NOTES

1. SEE EXTERIOR WALL SECTION SHEETS AND EXTERIOR ASSEMBLIES SHEET FOR ROOF SYSTEM NOTES.

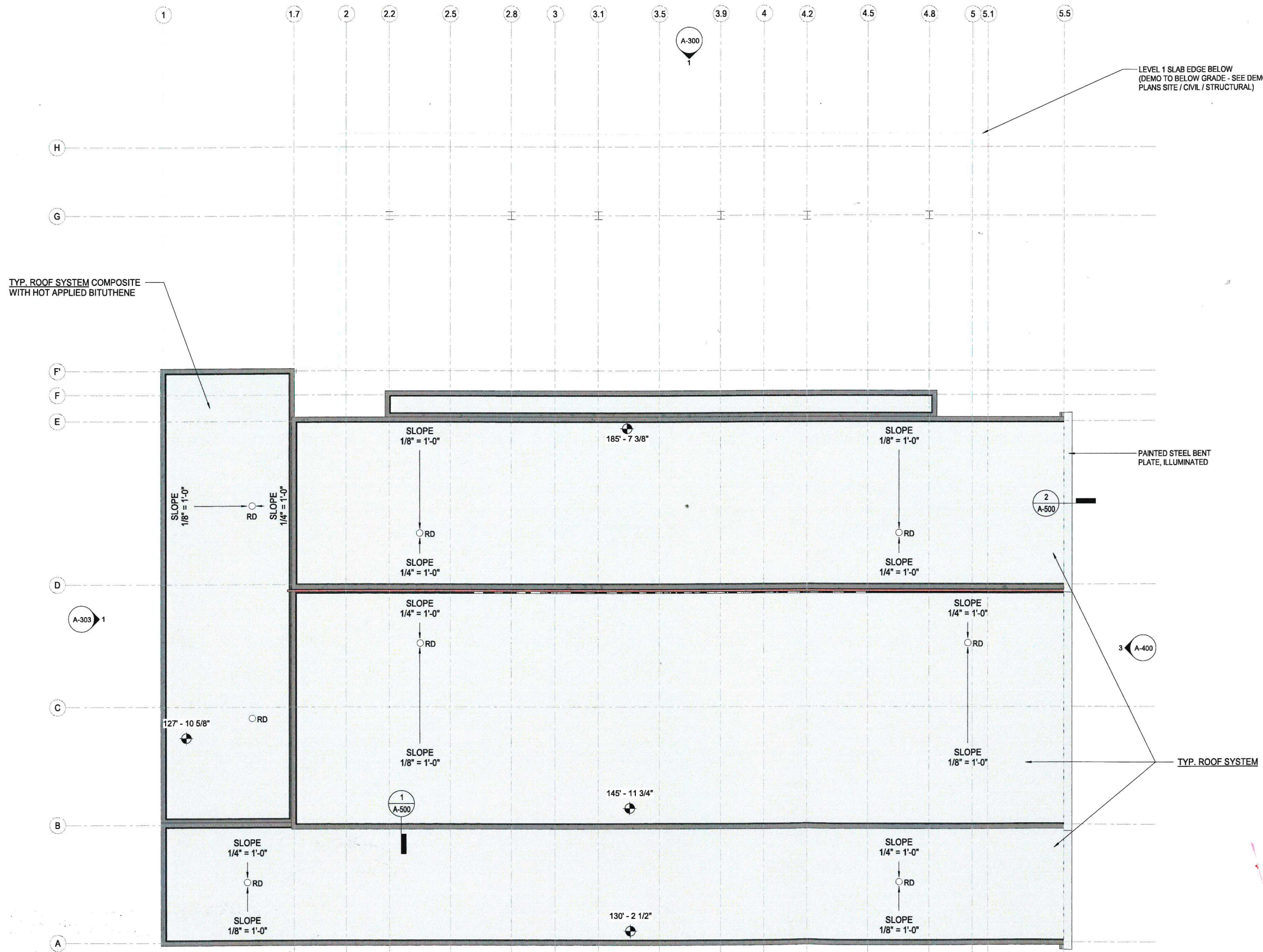
2. SEE MEP/FP DRAWINGS & SPECIFICATIONS FOR ROOF TOP EQUIPMENT REQUIREMENTS INCLUDING CURBS.

3. SEE PLUMBING DWGS FOR ROOF DRAIN QUANTITIES, SIZES & LAYOUT. CONTACT ARCHITECT IF DISCREPANCIES ARE FOUND.

TYP. ROOF SYSTEM: COMPOSITE WITH HOT APPLIED BITUTHENE

ROOF PLAN LEGEND

RD	ROOF DRAIN
MT	MAINTENANCE TIEDOWN
SC	SCUPPER
SCP	SCUPPER TO PAD ON ROOF BELOW
SWRL	SCUPPER WITH RAIN LEADER TO PAD ON ROOF BELOW
RMF	ROOF MANIFOLD



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81 Maple Street
802-954-0541
Architecture +

MORAN
WATERFR

Lake
Burlin

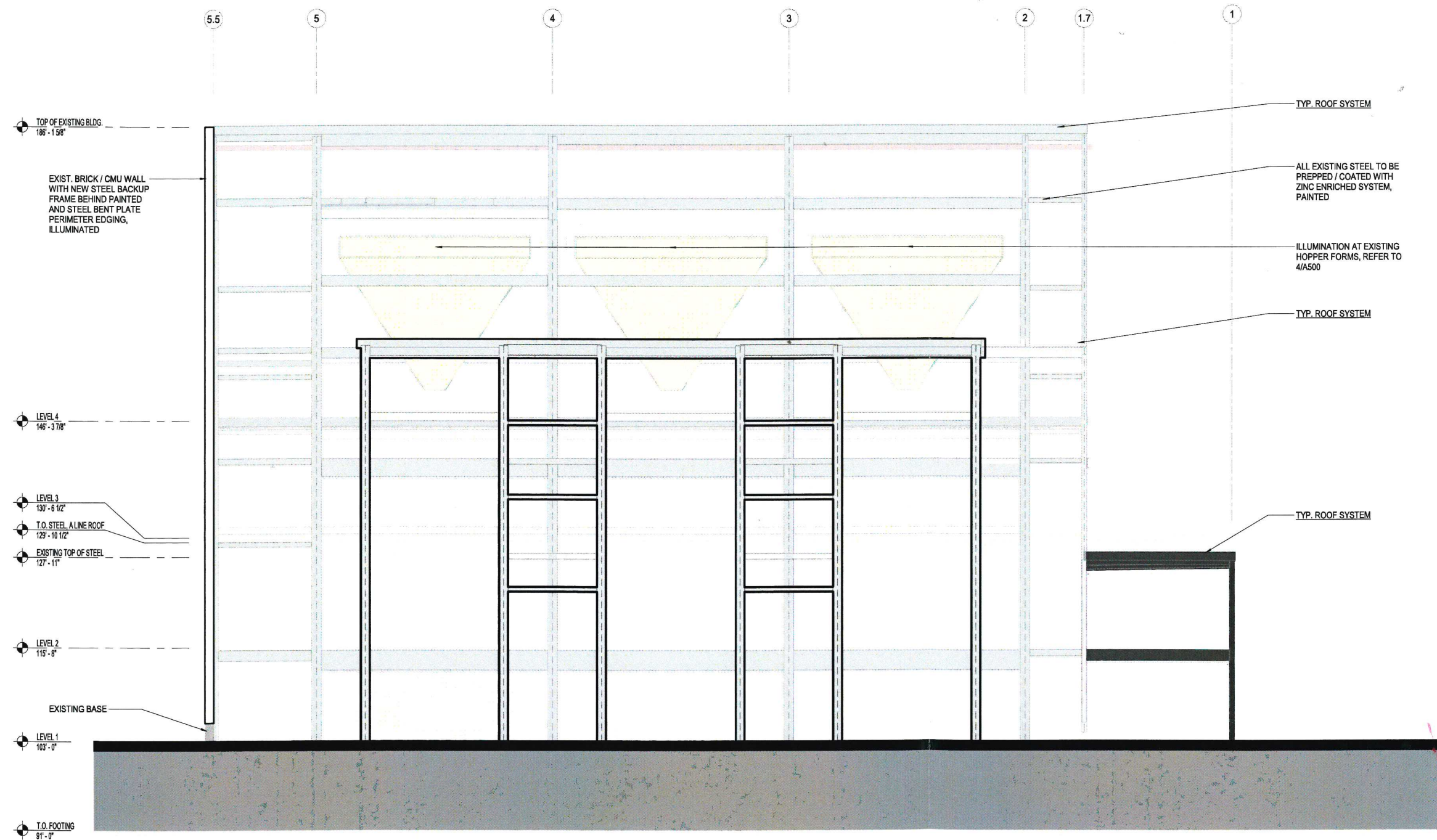
FF PROJECT NO: A1

ORIGINATION
DATE: 06/12/19

DRAWN BY: EC

ISSUE LOG:
IFZ

SHEET CONTENTS:



2 VIEW - NORTHWEST CORNER
A-300 SCALE:

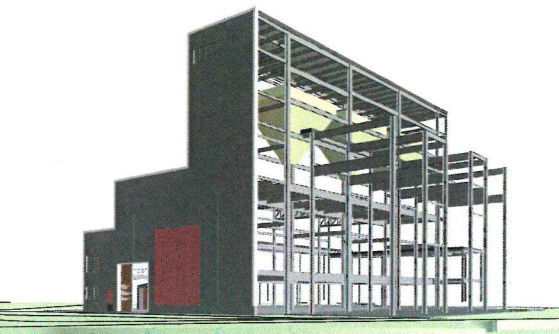
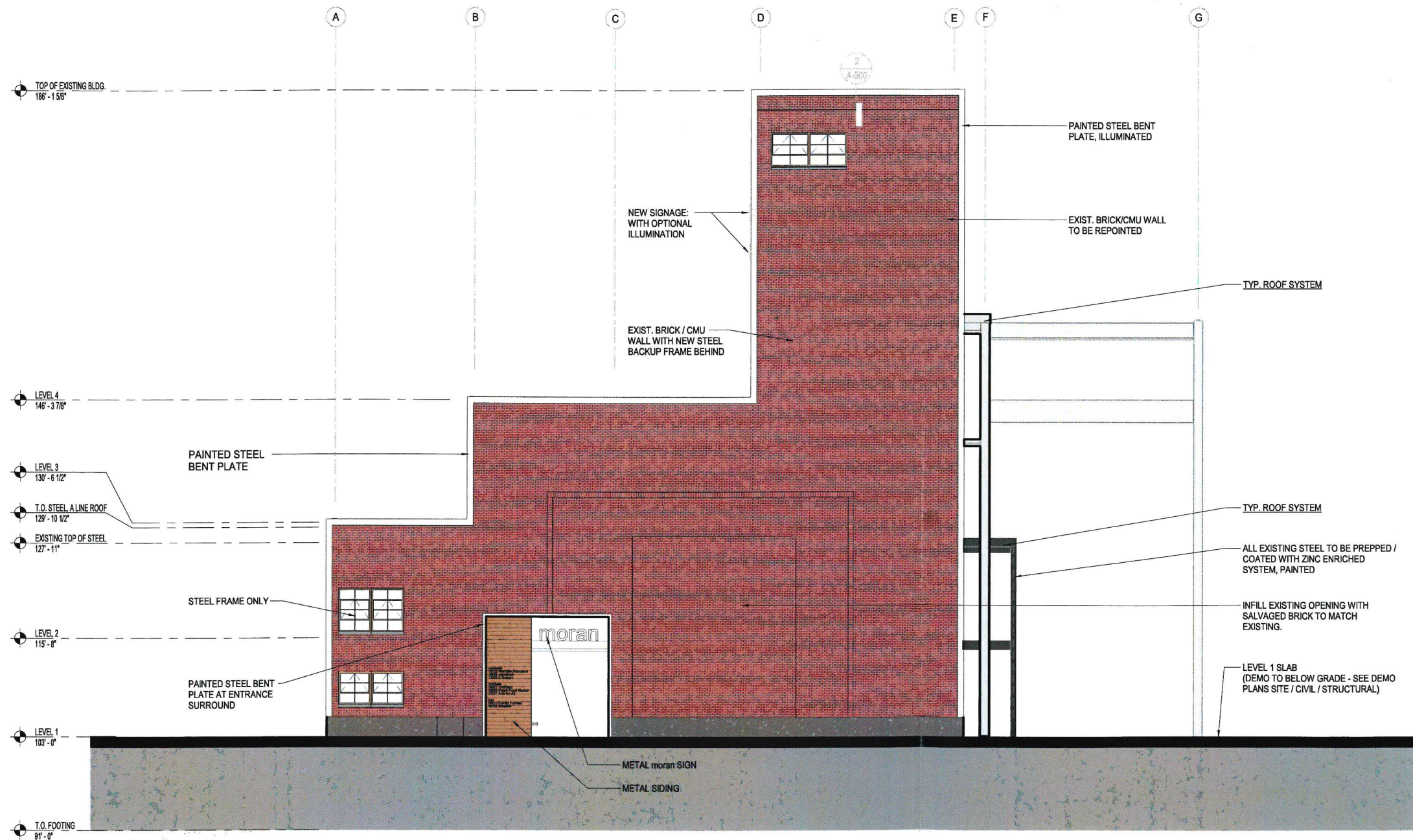


TYP. ASSEMBLIES

NOTE: ASSEMBLIES ARE LISTED FROM INTERIOR TO EXTERIOR.
SEE ASSOCIATED DETAILS FOR CLARIFICATIONS.

ROOF ASSEMBLY

- EXIST. STRUCTURAL STEEL - SEE STRUCTURAL DWGS.
- COMPOSITE ROOF SYSTEM - SEE STRUCTURAL DWGS.
- ASPHALT ROOFING



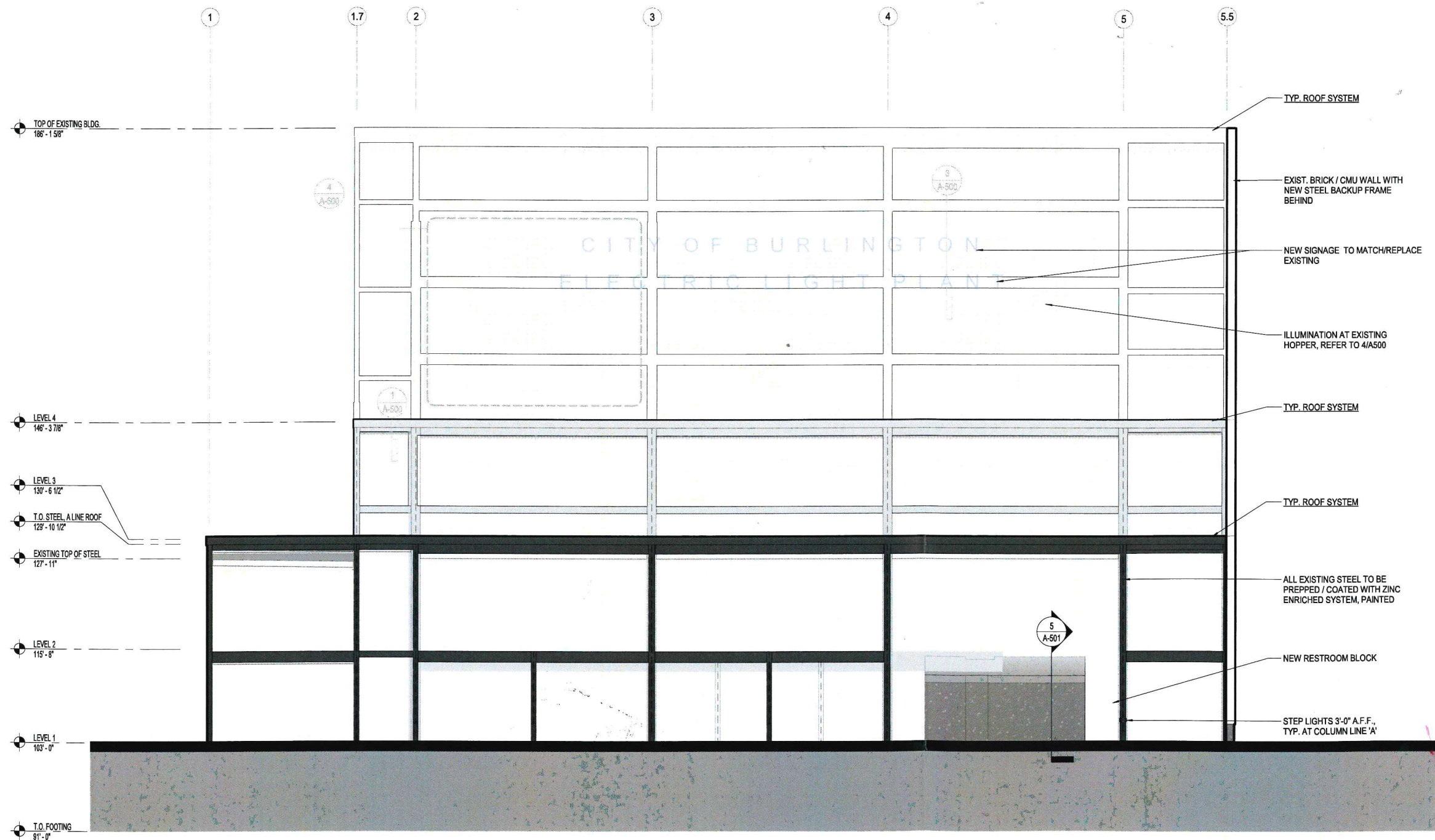
2 VIEW - NORTHEAST CORNER.
A-301 SCALE:



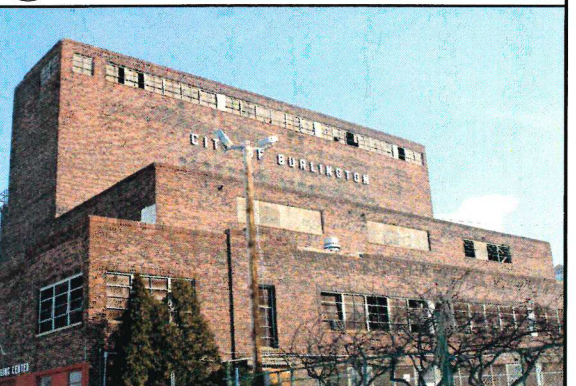
TYP. ASSEMBLIES

NOTE: ASSEMBLIES ARE LISTED FROM INTERIOR TO EXTERIOR. SEE ASSOCIATED DETAILS FOR CLARIFICATIONS.

- ROOF ASSEMBLY**
- EXIST. STRUCTURAL STEEL - SEE STRUCTURAL DWGS.
 - COMPOSITE ROOF SYSTEM - SEE STRUCTURAL DWGS.
 - ASPHALT ROOFING



2 VIEW - SOUTHEAST CORNER
A-302 SCALE:

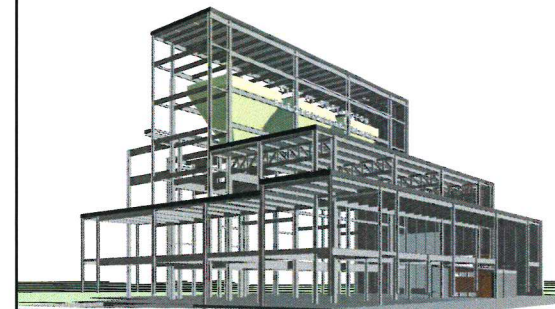
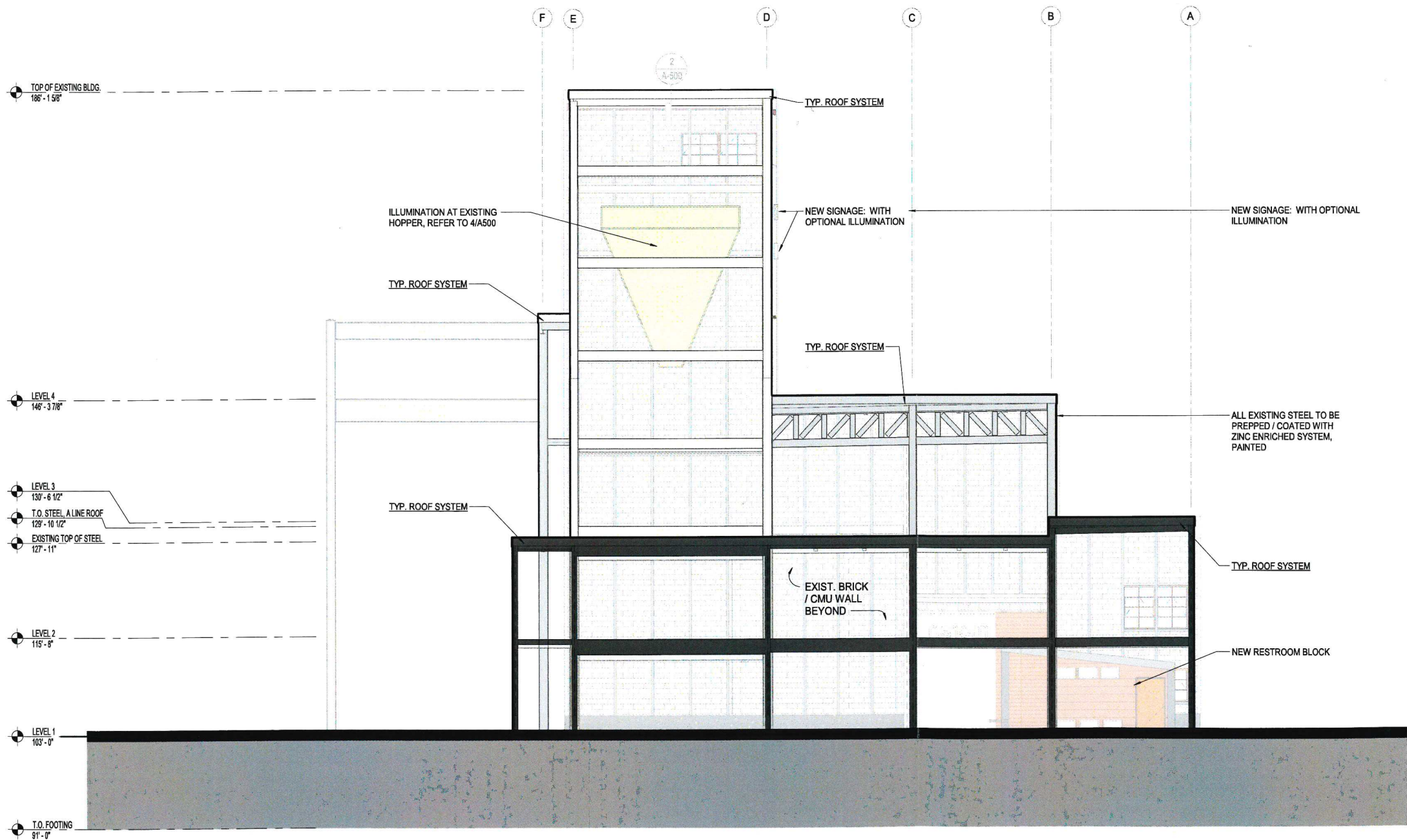


TYP. ASSEMBLIES

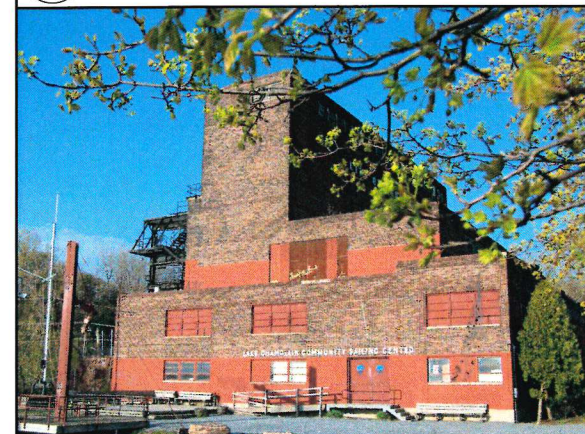
NOTE: ASSEMBLIES ARE LISTED FROM INTERIOR TO EXTERIOR.
SEE ASSOCIATED DETAILS FOR CLARIFICATIONS.

ROOF ASSEMBLY

- EXIST. STRUCTURAL STEEL - SEE STRUCTURAL DWGS.
- COMPOSITE ROOF SYSTEM - SEE STRUCTURAL DWGS.
- ASPHALT ROOFING



2 VIEW - SOUTHWEST CORNER
A-303 SCALE:

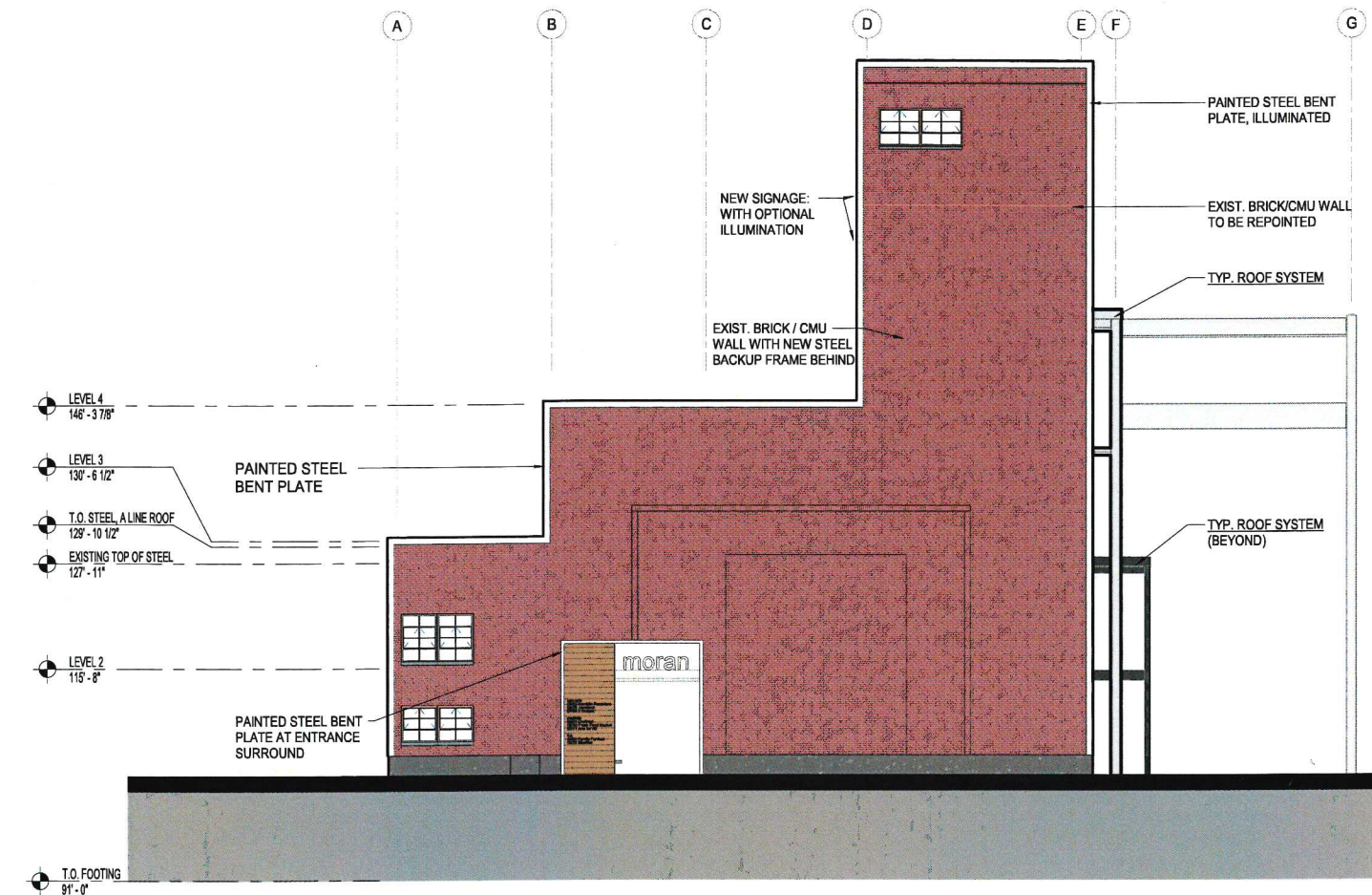


TYP. ASSEMBLIES

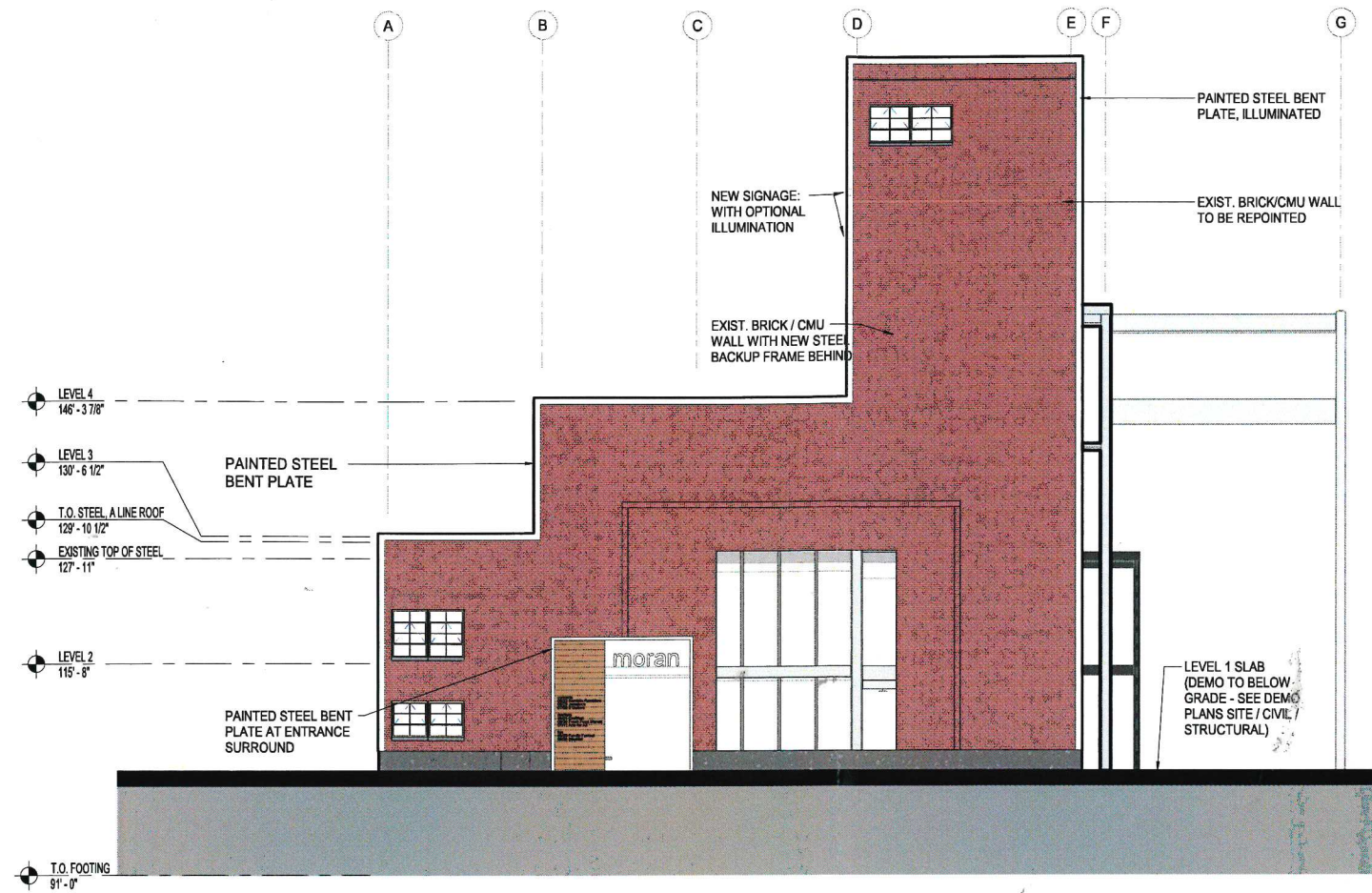
NOTE: ASSEMBLIES ARE LISTED FROM INTERIOR TO EXTERIOR.
SEE ASSOCIATED DETAILS FOR CLARIFICATIONS.

ROOF ASSEMBLY

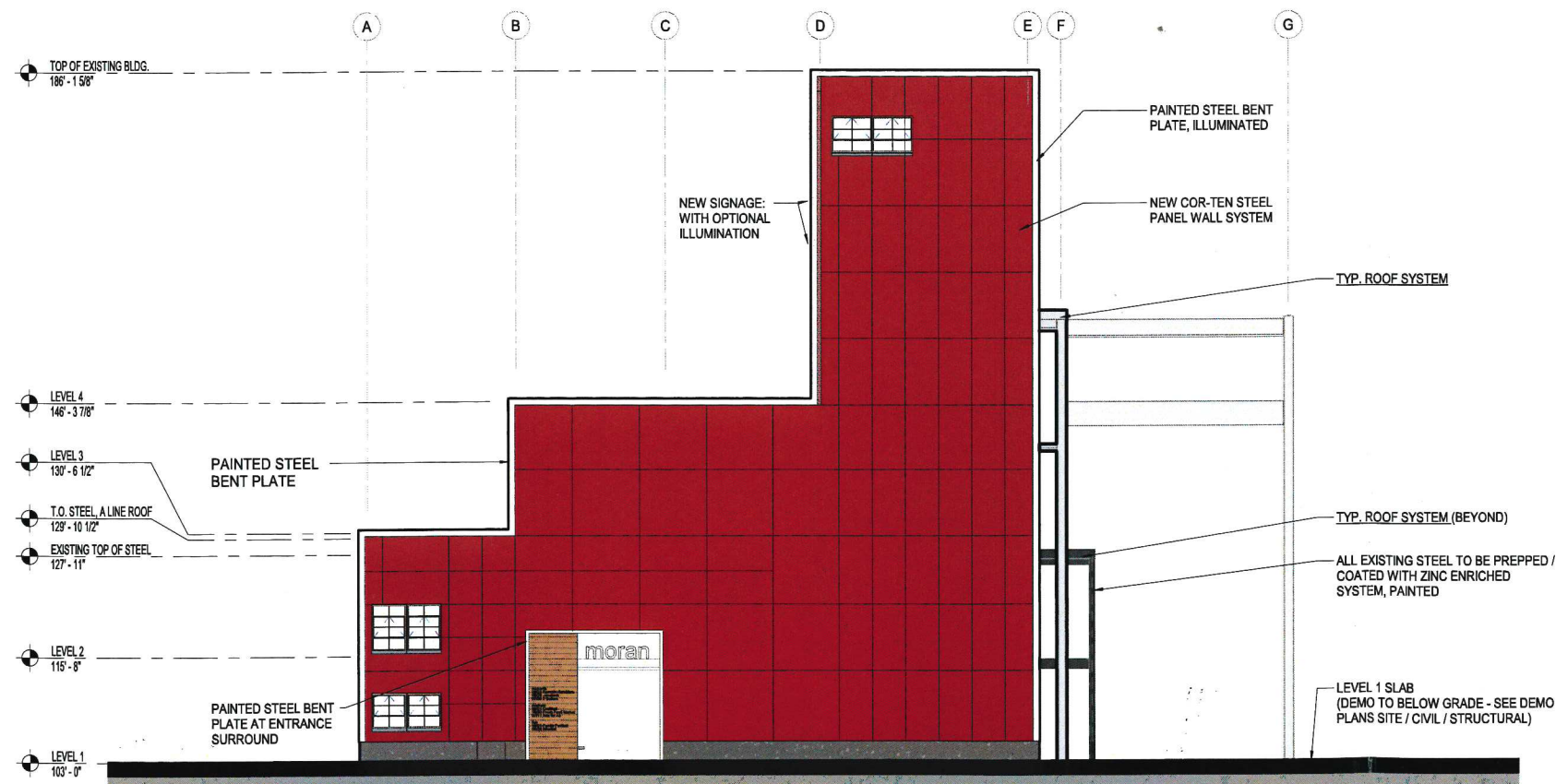
- EXIST. STRUCTURAL STEEL - SEE STRUCTURAL DWGS.
- COMPOSITE ROOF SYSTEM - SEE STRUCTURAL DWGS.
- ASPHALT ROOFING



00 EAST ELEVATION - ORIGINAL BRICK OPTION
SCALE: 3/32" = 1'-0"



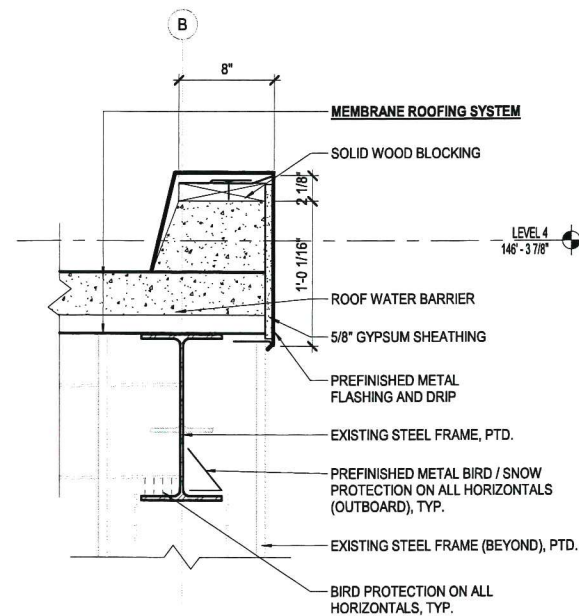
3 EAST ELEVATION OPTION C
A-400 SCALE: 3/32" = 1'-0"



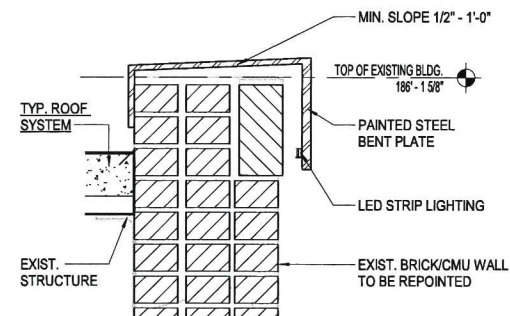
ALL EXISTING STEEL TO BE PREPPED /
COATED WITH ZINC ENRICHED
SYSTEM, PAINTED

LEVEL 1 SLAB
(DEMO TO BELOW GRADE - SEE DEMO
PLANS SITE / CIVIL / STRUCTURAL)

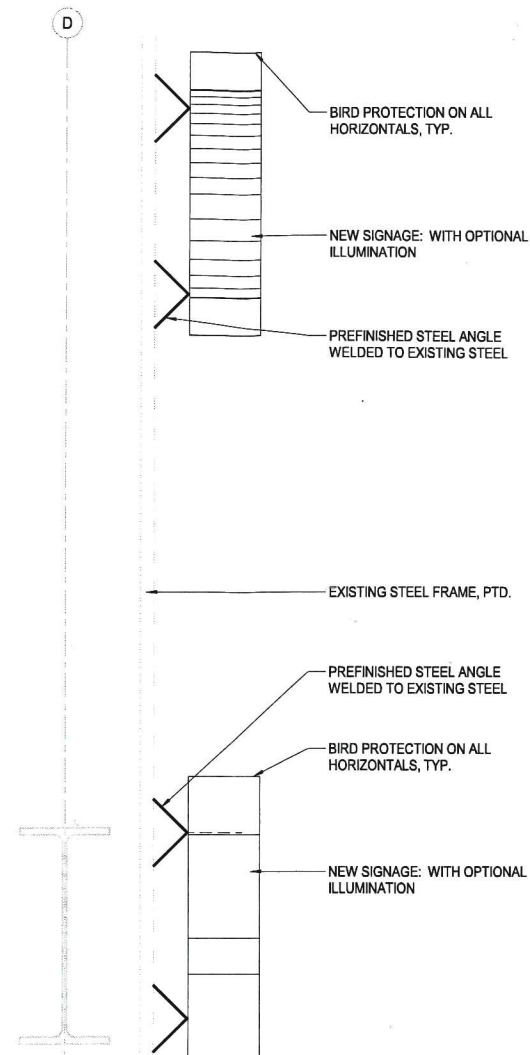
DECEIVE



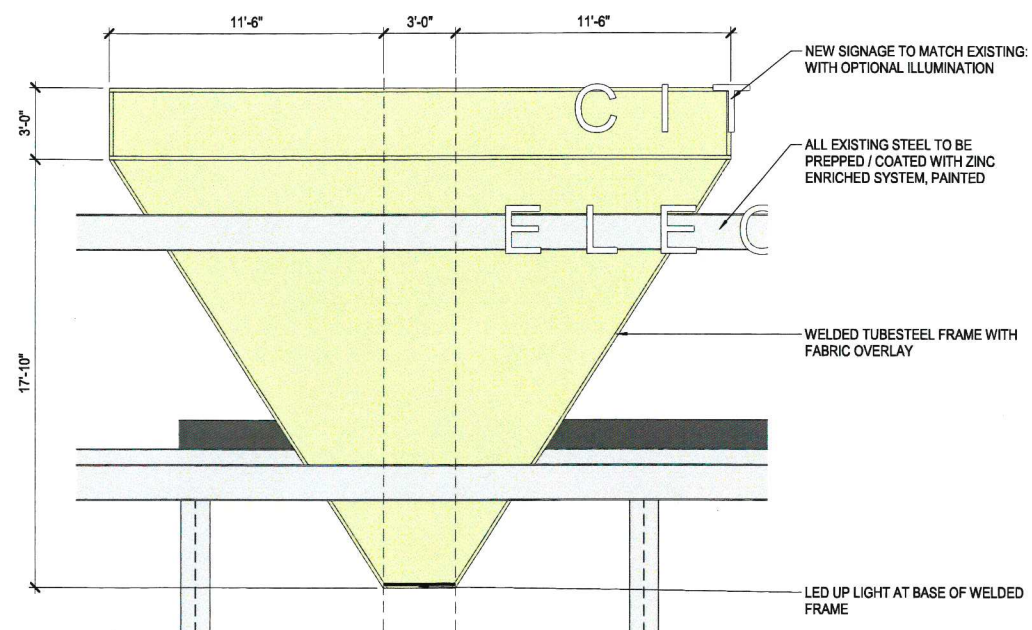
00 ROOF EDGE DETAIL, TYP.
SCALE: 1 1/2" = 1'-0"



2 ROOF EDGE DETAIL @ EXIST. BRICK WALL
A-500 SCALE: 1 1/2" = 1'-0"



3 ROOF DETAIL @ SIGNAGE
A-500 SCALE: 1 1/2" = 1'-0"

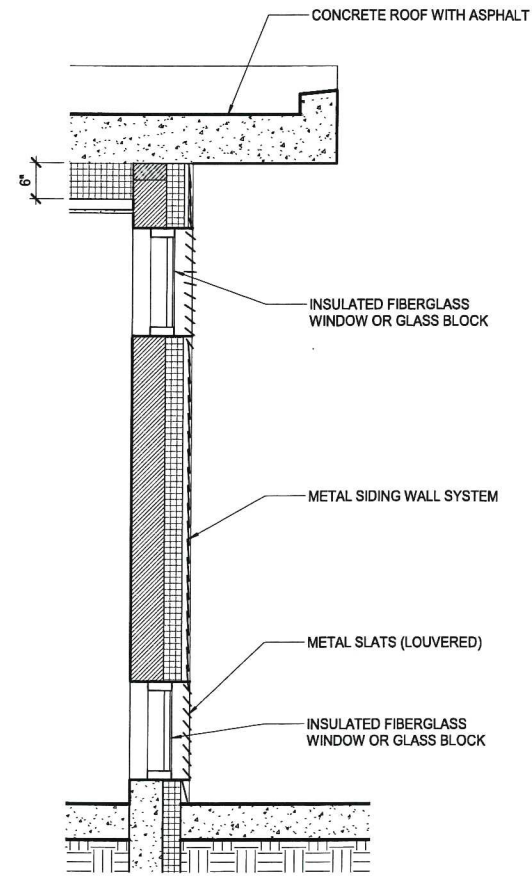


TYP. ASSEMBLIES

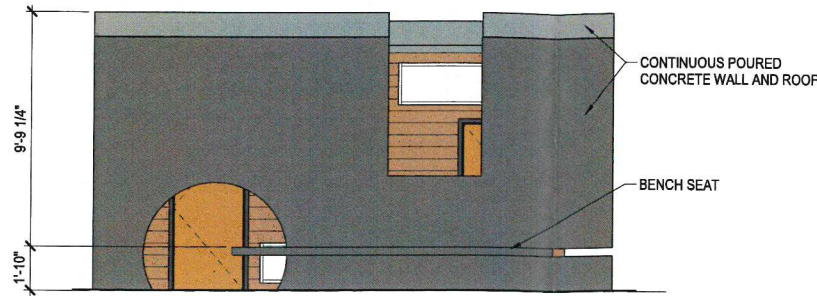
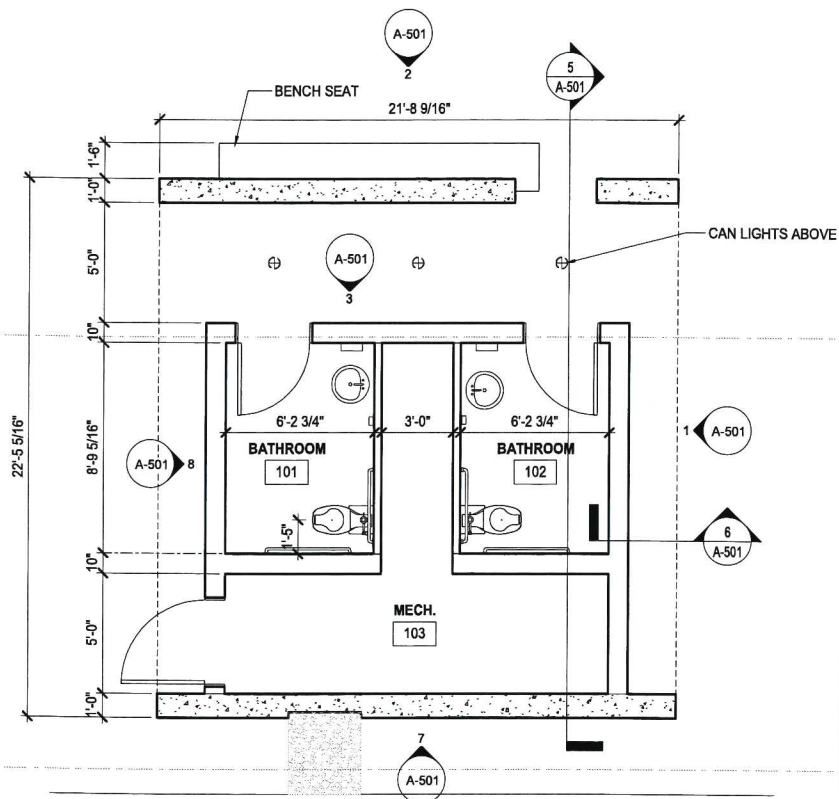
NOTE: ASSEMBLIES ARE LISTED FROM INTERIOR TO EXTERIOR. SEE ASSOCIATED DETAILS FOR CLARIFICATIONS.

ROOF ASSEMBLY

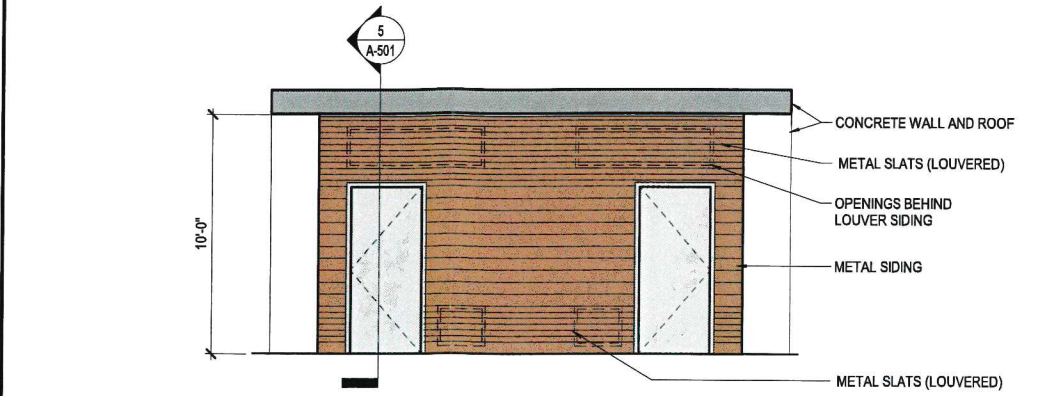
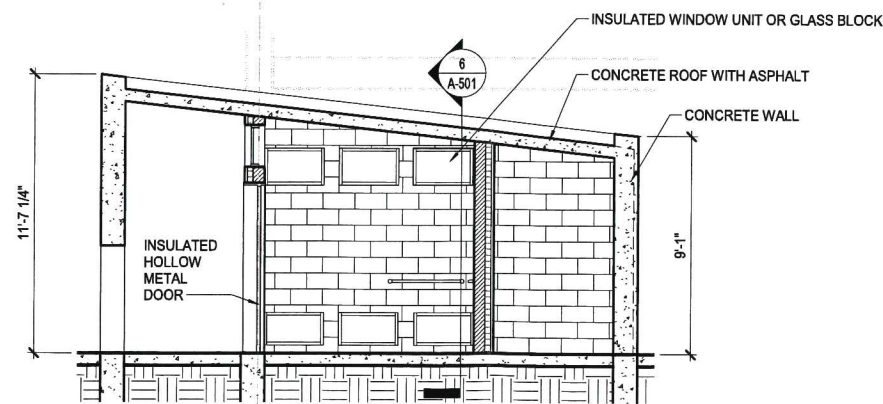
- EXIST. STRUCTURAL STEEL - SEE STRUCTURAL DWGS.
- COMPOSITE ROOF SYSTEM - SEE STRUCTURAL DWGS.
- ASPHALT ROOFING



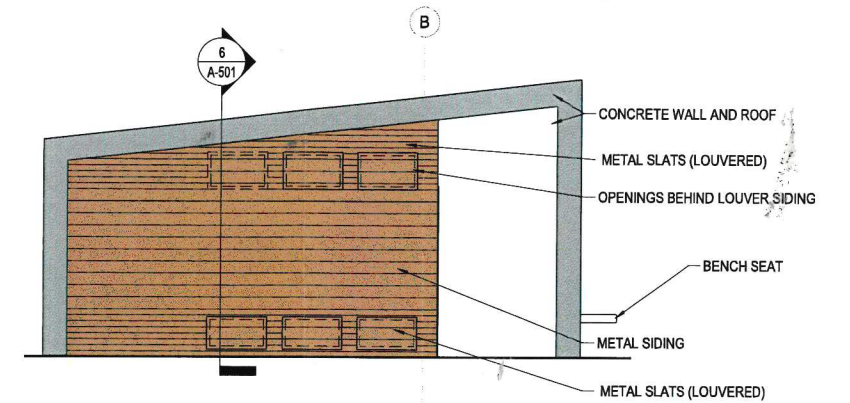
3 WALL SECTION
SCALE: 3/4" = 1'-0"



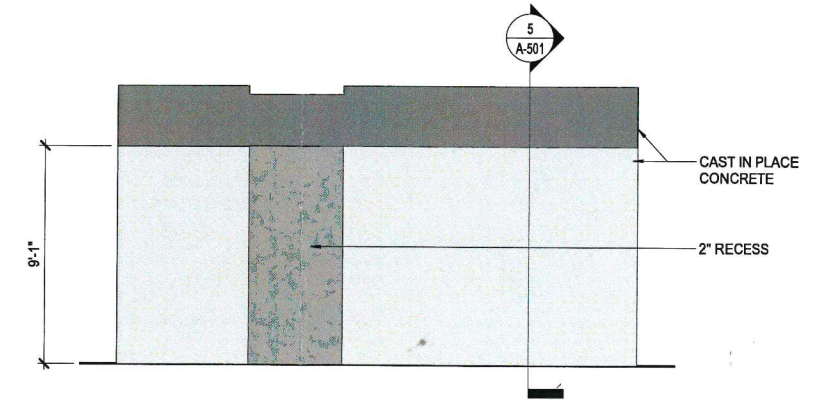
2 BATHROOM BLOCK - NORTH ELEVATION
A-501 SCALE: 1/4" = 1'-0"



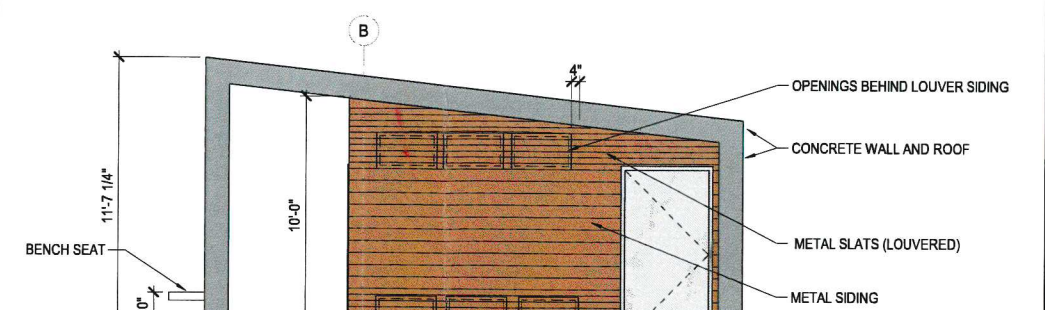
3 BATHROOM INSIDE NORTH
A-501 SCALE: 1/4" = 1'-0"

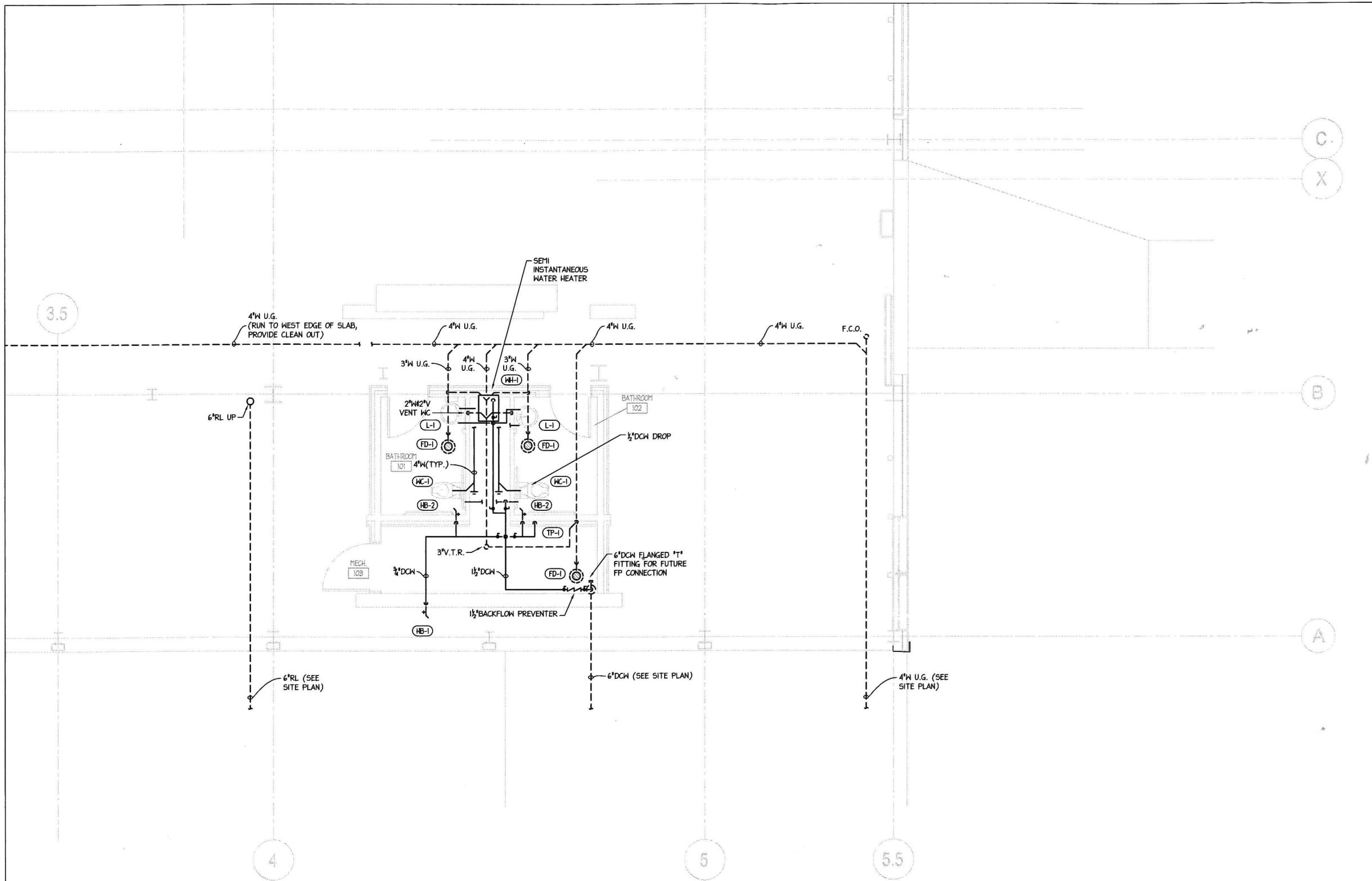


1 BATHROOM BLOCK - EAST ELEVATION
A-501 SCALE: 1/4" = 1'-0"



7 BATHROOM SOUTH
A-501 SCALE: 1/4" = 1'-0"





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DEPARTMENT OF
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LEGEND	
SYMBOL	DESCRIPTION
	DISCONNECT SWITCH
	WALL SWITCH, 0-10V DIMMING EXCEPT AS NOTED ON LIGHTING GENERAL NOTES.
	WALL SWITCH INDICATING ZONE CONTROLLED.
	OCCUPANCY SENSOR. LETTERS INDICATE ZONES CONTROLLED. (SQUARE = WALL MOUNT)
	CORRIDOR OCCUPANCY SENSOR. LETTERS INDICATE ZONES CONTROLLED. ARROW = DIRECTION AIMED.
	DIGITAL LIGHTING CONTROL POWER RELAY. SEE DETAIL DRAWINGS FOR INFORMATION REGARDING CIRCUITING.
	CABLE TV COAX JACK
	CEILING MOUNTED PHOTOCELL. LETTER INDICATES ZONE CONTROLLED. (SQUARE = WALL MOUNT)
	CEILING MOUNTED DATA JACK. PROVIDE 10' SLACK CABLE FOR OWNER FURNISHED WIRELESS DEVICE.
	DATA OUTLET - "X" = # OF DATA JACKS/CABLES. NO NUMBER = (2) JACKS
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE TIED TO FIRE ALARM SYSTEM FOR SOUND SYSTEMS ("AUDIO MUTE")
	RECEPTACLE/DATA/HDMI FLOOR BOX. DASHED LINE = 1.25' CONDUIT THROUGH FLOOR TO WALL AV BOX FOR AV CABLES.
	CEILING MOUNTED RECEPTICAL
	DUPLEX RECEPTICAL WITH (2) TYPE C USB CHARGING PORTS.
	GFCI RECEPTACLE
	WEATHERPROOF RECEPTACLE
	JUNCTION BOX - "F" = FUTURE POWER CONNECTION, "T" = FUTURE TELECOM CONNECTION.
	TYPICAL SQUARE OR RECTANGULAR LIGHT FIXTURE, LETTER INDICATES CONTROL
	TYPICAL ROUND FIXTURE, LETTER INDICATES CONTROL
	TYPICAL STRIP FIXTURE, LETTER INDICATES CONTROL
	TYPICAL EXIT LIGHT FIXTURE
	HOME RUN
	CEILING SPEAKER (SQUARE = WALL MOUNT)
	SECURITY SYSTEM CAMERA
	SECURITY SYSTEM DOOR LOCK
	WALL MOUNTED AUDIO/VIDEO BOX. USB, HDMI,
	FLOOR MOUNTED AUDIO/VIDEO BOX. USB, HDMI,
	EMERGENCY POWER OFF BUTTON
	EMERGENCY VENTILATION EXHAUST FAN SWITCH
	AUTOMATIC DOOR PUSH BUTTON OPENER. DASHED LINE INDICATES DOOR CONTROLLED
	ACCESS CONTROL CARD READER
	ACCESS CONTROL DOOR STRIKE
	ACCESS CONTROL REQUEST TO EXIT DEVICE
	SECURITY SYSTEM PANIC BUTTON
	ACCESS CONTROL DOOR RELEASE BUTTON

ELECTRICAL LEGEND	
	NEW ELECTRICAL WORK TO BE PROVIDED

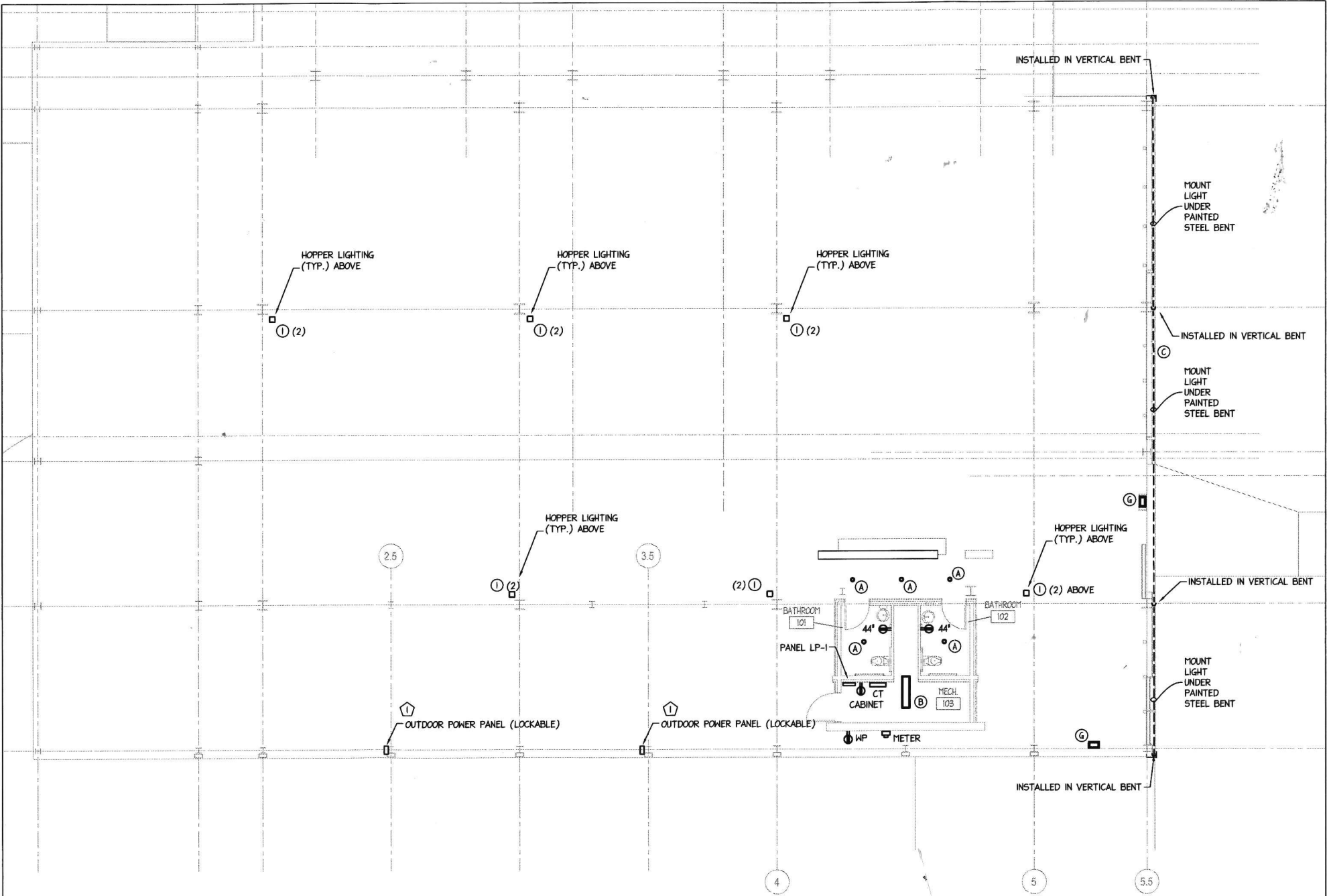
ELECTRICAL SPECIFIC NEW WORK NOTES:

1. PROVIDE NEW "ROAD SHOW PANEL" POWER PANEL TO MATCH EXISTING. UNMETERED TYPE, SURFACE MOUNTED TO 4"x4" PRESSURE TREATED WOOD PEDESTAL. PROVIDE WITH 50A-125/250A, NEMA 14-50R RECEPTACLE FED VIA 50A/2P BREAKER, (2) DUPLEX RECEPTACLES EACH FED VIA DEDICATED 20A/1P BREAKER AND (1) ADDITIONAL 20A/1P BREAKER. EATON TYPECHUIN7MMS OR EQUAL. FEED VIA 70A/2P CIRCUIT FROM PANEL LP-1.

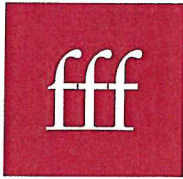
FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	DUCT SMOKE DETECTOR
	HORN STROBE-CEILING
	SPEAKER STROBE-CEILING
	STROBE-CEILING
	SNOKE DETECTOR-CEILING
	HEAT DETECTOR-CEILING
	CARBON MONOXIDE DETECTOR
	HORN STROBE-WALL
	SPEAKER STROBE-WALL
	STROBE-WALL
	SNOKE DETECTOR-WALL
	HEAT DETECTOR-WALL
	ISOLATION MODULE
	PULL STATION
	MAGNETIC DOOR HOLDER
	ZONED CONTROL RELAY
	TAMPER SWITCH
	FLOW SWITCH
	REMOTE TEST SWITCH
	HORN/STROBE-WEATHERPROOF
	ADDRESSABLE MODULE. MAY REQUIRE MORE THAN ONE.
	SMOKE CURTAIN- PROVIDE 24V VIA FIRE ALARM.
	FIRE DEPT KNOX BOX
	RADIO CALL BOX

ABBREVIATIONS	
ABBREV.	DESCRIPTION
ADO	AUTOMATIC DOOR OPENER
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AT	AMPERE TRIP
BC	BARE COPPER
BPIP	BOILER PLANT INSTRUMENTATION PANEL
CB, C/B	CIRCUIT BREAKER
DB	DIRECT BURIAL
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
FI	FILM ILLUMINATOR
FSS	FUSED SAFETY SWITCH
FSCP	FLAME SAFEGUARD CONTROL PANEL
GTB	GROUND TERMINAL BOX
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LF	LOW FREQUENCY FIRE SYSTEM ALARM
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
NFSS	NON-FUSED SAFETY SWITCH
PBPU	PREFABRICATED BEDSIDE PATIENT POWER UNIT
POD	POWER OPERATED DAMPER
PTRV	POWER TYPE ROOF VENTILATION
RR	REMOVE AND RELOCATE
R	RELOCATED
SS	SAFETY SWITCH
W	WIRE
EM	EMERGENCY POWER

INTERIOR LIGHTING SCHEDULE						
TAG	DESCRIPTION	MAKE & MODEL	LAMP(S)	EFFICACY	VOLTS	REMARKS
A	EXTERIOR 6" RECESSED CAN	PRESCOLITE LC6SL-6LCSL18L35K8-WH-WT	22.2 W LED	87	120 V	WET LOCATION.
B	4' LED WRAP FIXTURE	COLUMBIA LIGHTING RLH4-40ML-EDU	40W LED	131	120 V	COORDINATE MOUNTING WITH ARCHITECTURAL RCP.
C	EXTERIOR FLEXIBLE WET LOCATION	JESCO DL-FLEX-WETCC	1.3/LFW LED	89	120 V	WET LOCATION. 4000K COLOR TEMPERATURE.
G	EXTERIOR WALL PACK LIGHT	HUBBELL LNC2-12LU-4K-4-4-CC-SWPM-EH	29W LED	92	120 V	PROVIDE WIRELESS MESH SENSING WITH PHOTOEYE AND OCCUPANCY SENSOR (SITESYNC). OFF DAY, OFF NIGHT, FULL WHEN MOTION SENSED AT NIGHT.
I	HOPPER LIGHTING	LUMENPULSE-LUMENBEAM COLOR CHANGING LBM-COLOR CHANGING 28 WATT	28W LED	-	120 V	POWER AND CONTROL BOX, DAISY CHAIN CONFIGURATION, LUMENTALK DATA BRIDGE, LUMENTOUCH 2.0 CONTROLLER. COORDINATE MOUNTING WITH ARCHITECTURAL DETAILS.
NOTES:						
1. THE LIGHTING SHALL BE ENERGY STAR OR DESIGN LIGHTS RATED WHERE APPLICABLE. ALL SUBSTITUTE FIXTURES SHALL MATCH OR EXCEED THE SPECIFIED FIXTURES EFFICIENCY.						
2. PROVIDE ALL HARDWARE REQUIRED FOR MOUNTING. CONTRACTOR TO VERIFY CEILING OR SURFACE TYPES.						
3. ALL LIGHT FIXTURE PROVIDED WITH 1-100% 0-10V DIMMING UNLESS NOTED OTHERWISE.						
4. MOUNTING REQUIREMENTS AND EXACT LOCATIONS FOR ALL FIXTURES IS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.						
5. ALL TRIM AND COLORS TO BE SELECTED BY ARCHITECT.						



1 ELECTRICAL LEVEL 1 PLAN
1/8"=1'-0"



freeman | french | freeman

MEMORANDUM

Freeman French Freeman, Inc.
81 Maple Street, Burlington, VT 05401
802.864.6844 www.fffinc.com

Project Name: Moran FR

Project Number: A

Date: 6/12/

To: City of Burlington Department of Planning and Zoning

From: Alex Halpern, Project Manager

Subject: Moran FRAME – Project Description

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**DEPARTMENT OF
PLANNING & ZONING**

The Moran FRAME project site is located off of Lake Street between the skate park and the lake with the Community Sailing Center to the north and the electric department building and Waterworks Park (formerly fishing pier parking lot) to the south. This project is a deconstruction and stabilization of the existing Moran Building to create a public park amenity and nod to Burlington's history while preserving the opportunity for future development. Deconstruction consists of removing just about everything but the steel frame and the possibly the east wall. Stabilization consists of infilling the existing basement up to grade, placing three new internally drained flat roofs, coating the remaining steel frame with a high performance paint, and bracing/repairing the east masonry wall. There is no vertical circulation and no occupied levels above grade.

New program consists of a small restroom pavilion that houses two accessible single occupancy restrooms. The restrooms are to be clad in durable metal panel, concrete, and masonry. To emphasize the buildings unique shape and history, steel forms in the shape of the past coal bunkers are planned to be suspended within the high building frame and softly lit by down lights, and the east wall will be framed with metal channel and linear accent light that softly emphasizes the wall's perimeter edges.

The supporting site is the keystone to recent surrounding development and public improvement projects and consists primarily of lawn with several strategic pathways that connect the bike path to the new Waterworks Park, and to the Community Sailing Center, with a spur looping back around to the skate park. Plantings beyond lawn will be under the direction of the Burlington Parks, Recreation and Waterfront Department at a future time. Pathways will be primarily asphalt similar to the bike path, with other portions in concrete and possibly pavers.

For more than 25 years, the Moran Plant – a coal-fired generating plant decommissioned in 1986 – has sat as the last vacant, blighted reminder of the industrial past on Burlington's waterfront. While the site has long been recognized for its redevelopment potential because of the building's structural integrity and strategic location on the north end of the downtown waterfront, numerous concepts and plans for repurposing the building for programs were earnestly pursued but ultimately not successful. These plans included programs such as science and arts centers, various types of museums, university facilities, recreation facilities, a baseball stadium, and most recently a non-profit mixed-use development.

This project is limited by the fact that it is a brownfield regulated by the State requiring corrective action and the funding which cannot exceed ~\$5M as authorized by the voters in 2014. Therefore, we are going to proceed in phases as financing allows and this first phase is limited to demolition and site stabilization. The initial phasing plans is as follows:

Phase 1 a (the basic plan): remediation and establishment of lawn areas, some new pathways, removal of most or all of the brick and concrete block, infilling the existing basement up to grade, placing three new

internally drained flat roofs, coating the remaining steel frame with a high performance paint, and two accessible single occupancy restrooms.

Phase 1 b: reestablishment of an eastern façade by bracing/repairing the east masonry wall or replacing brick façade with cor-ten steel wall system and accent lighting.

Phase 1 c: steel forms in the shape of the past coal bunkers suspended within the high building frame and softly lit by down lights.

Phase 1 d: additional possible pathways, alternate materials of concrete and pavers for pathways, bike rack and pavers/concrete in place of lawn to the south and west of the structure.

Potential future phases may offer additional amenities.

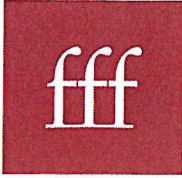
Having received overwhelming approval by the Parks, Arts and Culture Committee (PACC), Board of Finance and City Council, public outreach and engagement for this project has included presentations at Neighborhood Planning Assemblies, stakeholder, commission and committee meetings, and CEDO's website.

This memo is intended to provide a general description of the Moran FRAME project that supports the attached Zoning Permit Application and drawings that include the following:

- Site Plan with land owner, dimensions, and abutting streets; rights of way/ easements; setbacks; grading; existing and proposed lot coverage; existing structures and features;
- Landscape Plan
- Building Plan
- Colored Building Elevations
- Building mounted signage
- Wall Section
- Color-Rendered Perspective
- Building mounted light fixtures
- Photometric drawing
- Material Samples
- Photographs of the subject site and neighboring properties

CC:

Kirsten Merriman-Shapiro	, CEDO		
			File A1210.02



freeman | french | freeman

MEMORANDUM

Freeman French Freeman, Inc.
81 Maple Street, Burlington, VT 05401
802.864.6844 www.fffinc.com

Project Name: Moran FR

Project Number: A192

Date: 6/7

To: Department of Planning & Zoning
City Hall 149 Church St.
Burlington, VT. 05401

From: Alex Halpern, FFF

Subject: Moran FRAME - Adjacent Properties Reference Photographs



Burlington Electric to South

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Apartments – East

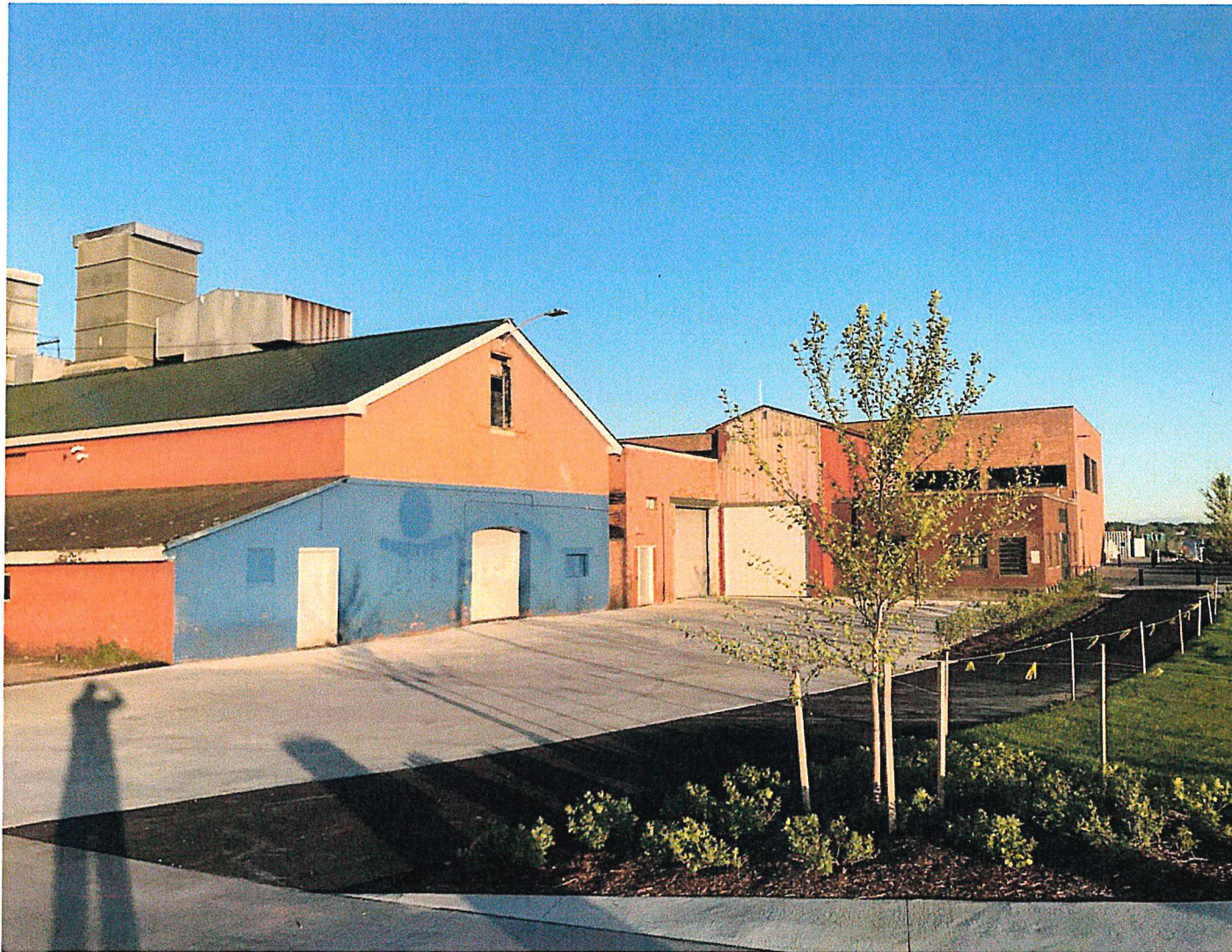
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DEPARTMENT OF
PLANNING & ZONING



Sailing Center –North

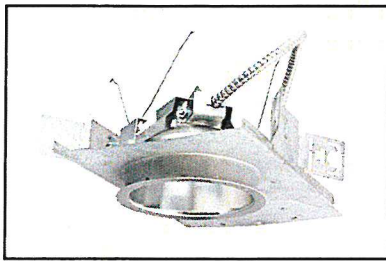
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Waterworks Park - Southwest

File: A1924.00	
KMS – City Burlington	

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6" LED Downlight LC6SL

1000/1400/1800 Lumens
120V-277V, 347V
0-10V Dimming

APPLICATIONS:

LiteFrame Commercial LC6SL 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. Free Air Flow around the 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 LC6SL uses 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 LC6SL utilizes a constant current 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, Class II compliant and universal 120V-277V.

DIMMING:

Comes standard with flicker-free 0-10V dimming to 10%. 0-10V to 1% dimming option is also available. 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 (not with WWCP option). 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, EMR and WW damp location). ENERGY STAR qualified.

WARRANTY:

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

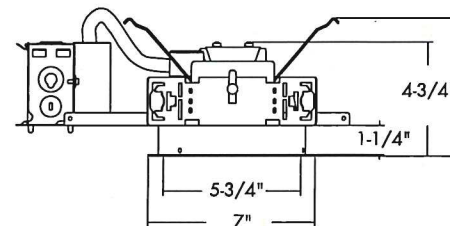
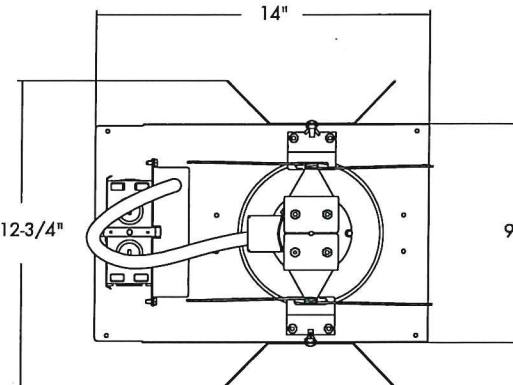
DA
FIR
PRC

TYPE A

LiteFrame



Ceiling Cutout
Maximum Ceiling Thickness
For conversion to millimeter
multiply inches by 25.4
Not to



LC6SL 10L & 14L

*See page 4 for LC6SL 18L line art
*See page 4 for LC6SL EM line art
*See page 4 for LC6SL CP line art
*See page 4 for LC6SL WWCP line art

Order housing, reflector, and accessories separately

CATALOG NUMBER:

HOUSING	DRIVER OPTIONS	VOLTAGE	HOUSING OPTIONS	TRIM APERTURE	OUTPUT	KELVIN	CRI	REF. FINISH/ COLOR OPTION	REFLECTOR OPTIONS	ACCESSORIES
☐ LC6SL Standard Lumen 0-10V Dimming to 10% 120V-277V	☐ Standard 0-10V ☐ DM1 10% Dimming ☐ 0-10V ☐ 1% Dimming	☐ Standard 120V-277V ☐ 347^{3,7,10} 347V	☐ EM^{2,4,8} Integral Battery Pack ☐ EMR⁴ Remote Battery Pack ☐ CP^{3,6,8} Chicago Plenum ☐ WWCP^{3,9} Wall Wash Chicago Plenum Housing	☐ 6LCSL Standard Lumen Clear Alzak Reflector	☐ 10L 1000 Lumen ☐ 14L 1400 Lumen ☐ 18L 1800 Lumen	☐ 27K 2700 Kelvin ☐ 30K 3000 Kelvin ☐ 35K 3500 Kelvin ☐ 40K 4000 Kelvin ☐ 50K 5000 Kelvin	☐ 8 80+ CRI ☐ 9 90+ CRI	☐ Standard Semi-Diffuse Clear Alzak ☐ WH Painted Matte White Reflector and Flange	☐ WT Painted White Flange Only ☐ WF Wide Flange ☐ WW^{4,5,7} Wall Wash ☐ EM^{2,4,8} Integral Battery Pack ☐ CP^{3,6} Chicago Plenum	☐ B24 Set of two(2) 24" bar hangers for T-bar ceiling ☐ B6 Set of two (2) bar hanging ceiling joist up to 24" c ☐ SCA6D Sloped ceiling adapter note on page 4) ☐ LiteGear¹ Inverter, single phase ceiling lighting, 125VA-250VA ☐ LPS Series¹ LitePower micro-inverter, 55VA

¹ See Central Inverter compatibility note and web links on page 4.

² EM must be selected on both the housing and the trim.

³ Not compatible with EM or EMR

⁴ Damp location only

⁵ Compatible with EMR only

⁶ CP must be selected on both the housing and the trim

⁷ Not compatible with CP

⁸ Not available with WW option

⁹ WW must be selected on trim

¹⁰ Not compatible with WWCP



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.

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PHOTOMETRIC DATA

LiteFrame - 6" LC6SL Downlight

TYPE A

DRIVER DATA	6LCSL10Lxxx	6LCSL14Lxxx	6LCSL18Lxxx
Input Voltage	120-277V	120-277V	120-277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input Current	0.111 (120v) 0.048 (277v)	0.148 (120v) 0.064 (277v)	0.185 (120v) 0.080 (277v)
Input Power	13.4W	17.8W	22.2W
Constant Current Output	700mA	700mA	700mA
Power Factor	≥0.90	≥0.90	≥0.90
THD	<25%	<20%	<20%
EMI Filtering	FCC 47CFR Part 15, Class A	FCC 47CFR Part 15, Class A	FCC 47CFR Part 15, Class A
Operating Temperature	-30 C to +35 C	-30 C to +28 C	-30 C to +25 C
Dimming	0-10V	0-10V	0-10V

Over-voltage, over-current, short-circuit protected

When operating in EM mode, the fixture will deliver approximately 30% of the published full lumen output.

Lumen Multiplier Table

Photometrics for the LC6SL are published below at a nominal 3500 Kelvin temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

5000 Kelvin	1.09
4000 Kelvin	1.00
3500 Kelvin	1.00
3000 Kelvin	0.99
2700 Kelvin	0.96

LC6SL 6LCSL18L35K8

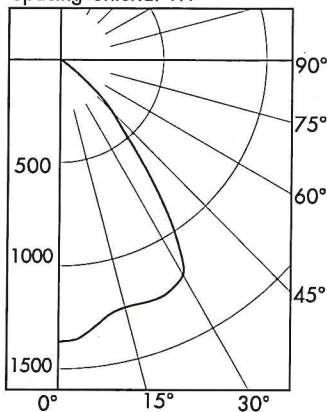
LED Light Engine: 3500K, 80+ CRI

System Wattage: 22.3W

Fixture Delivered Lumens: 1941

Fixture Efficacy: 87.0

Spacing Criteria: 1.1



CANDELA DISTRIBUTION

DEG CANDELA

0	1368
5	1345
15	1243
25	1247
35	923
45	357
55	27
65	5
75	1
85	0
90	0

Test No. 16.03178

Tested at 25 C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-60	1935	99.7
0-90	1941	100.0
90-180	0	0.0
0-180	1941	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average
45°	27667
55°	2580
65°	648
75°	212
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance					% Effective Floor Cavity Reflectance					% Wall Reflectance				
	80%					20%					70%				
	100%					10%					50%				
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90
3	100	93	87	83	98	92	88	82	89	85	81	86	83	80	84
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78
5	89	79	73	68	87	78	72	67	76	71	67	74	70	66	73
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52

LC6SL 6LCSL18L35K8

Test No. 16.03178

LC6SL 6LCSL14L35K8

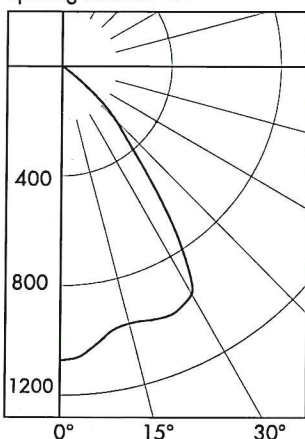
LED Light Engine: 3500K, 80+ CRI

System Wattage: 17.9W

Fixture Delivered Lumens: 1520

Fixture Efficacy: 84.9

Spacing Criteria: 1.1



CANDELA DISTRIBUTION

DEG CANDELA

0	1072
5	1050
15	971
25	990
35	721
45	277
55	20
65	4
75	1
85	0
90	0

Test No. 16.03177

Tested at 25 C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-60	1515	99.7
0-90	1520	100.0
90-180	0	0.0
0-180	1520	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average
45°	21467
55°	1911
65°	519
75°	212
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance					% Effective Floor Cavity Reflectance					% Wall Reflectance				
	80%					20%					70%				
	100%					10%					50%				
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90
3	100	93	87	83	98	92	88	82	89	85	81	86	83	80	84
4	94	86	80	75	92	84	79	74	82	77	73	80	76	72	78
5	89	79	73	68	87	78	72	67	76	71	67	74	70	66	73
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52

LC6SL 6LCSL14L35K8

Test No. 16.03177

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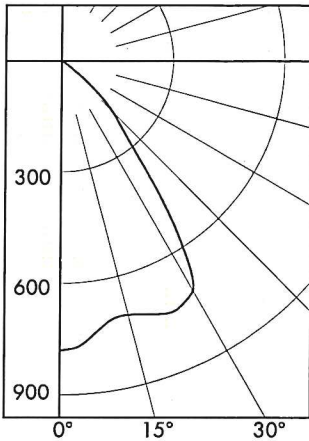
PHOTOMETRIC DATA

LiteFrame - 6" LC6SL Downlight

TYPE A

LC6SL 6LCSL10L35K8

LED Light Engine: 3500K, 80+ CRI
System Wattage: 13.5W
Fixture Delivered Lumens: 1106
Fixture Efficacy: 81.9
Spacing Criteria: 1.1



CANDELA DISTRIBUTION

DEG	CANDELA
0	780
5	762
15	708
25	740
35	518
45	196
55	15
65	3
75	1
85	0
90	0

Test No. 16.03179

Tested at 25 C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-60	1103	99.7
0-90	1106	100.0
90-180	0	0.0
0-180	1106	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average
45°	15190
55°	1433
65°	389
75°	212
85°	0

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method

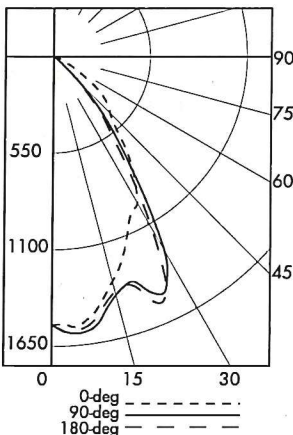
Room Cavity Ratio	% Effective Ceiling Cavity Reflectance					% Effective Floor Cavity Reflectance					% Wall Reflectance				
	80%	70%	50%	30%	10%	80%	70%	50%	30%	10%	70	50	30	10	50
	100	90	80	70	60	100	90	80	70	60	70	50	30	10	50
1	113	110	107	105	103	110	108	105	103	101	104	102	100	98	97
2	107	101	97	93	89	104	99	95	92	89	96	93	90	88	86
3	100	93	88	83	79	98	92	87	82	79	89	85	81	78	75
4	94	86	80	75	71	92	85	79	74	71	82	77	74	70	67
5	89	79	73	68	64	87	78	72	68	64	76	71	67	63	60
6	83	73	67	62	58	82	73	66	62	58	71	65	61	57	54
7	78	68	61	57	53	77	67	61	56	52	66	60	56	52	49
8	74	63	57	52	48	73	63	56	52	48	61	56	52	48	45
9	70	59	52	48	44	69	59	52	48	44	57	52	48	44	41
10	66	55	49	44	40	65	55	48	44	40	53	48	44	40	37

LC6SL 6LCSL10L35K8

Test No. 16.03179

LC6SL 6LCSL18L35K8 WW

LED Light Engine: 3500K, 80+ CRI
System Wattage: 22.2W
Fixture Delivered Lumens: 1938
Fixture Efficacy: 87.3



CANDELA DISTRIBUTION

DEG	0	90	180
0	1527	1527	1527
5	1545	1581	1565
15	1324	1404	1383
25	1030	1489	1517
35	792	780	670
45	454	219	189
55	273	8	8
65	64	2	2
75	9	1	1
85	0	0	0
90	0	0	0

Test No. 16.03309

Tested at 25 C Ambient in accordance to IESNA LM-79-2008

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	0 DEG	90 DEG	180 DEG
45°	38311	18480	15949
55°	28400	832	832
65°	9036	282	282
75°	2075	231	231
85°	0	0	0

MULTIPLE UNITS				
1'	2'	3'	4'	

2' DISTANCE FIXTURE MOUNTED OUT FROM WALLS
FOOTCANDLE DISTRIBUTION ON WALL SURFACE (DIRECT ONLY)

DISTANCE FROM CEILING IN FEET	15					15					15				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
1	15	11	6	2	1	15	5	15	15	15	15	1	15	15	15
2	40	36	26	13	5	41	27	41	41	41	40	10	40	40	40
3	36	35	28	18	11	41	36	41	41	41	36	22	36	36	36
4	22	22	22	19	13	33	39	33	33	33	25	27	25	25	25
5	14	14	14	14	13	27	30	27	27	27	20	25	20	20	20
6	10	10	9	9	9	24	22	24	24	24	16	19	16	16	16
7	7	7	6	6	6	19	18	19	19	19	14	14	14	14	14
8	5	5	5	4	4	15	15	15	15	15	12	11	12	12	12
9	4	4	3	3	3	12	13	12	12	12	10	9	10	10	10

LC6SL 6LCSL18L35K8 WW

Test No. 16.03309

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PHOTOMETRIC DATA

LiteFrame - 6" LC6SL Downlight

TYPE A

Dimming Compatibility Table

Dimming Ballast	Manufacturer	Web Link
DM/DM1	Lutron DTV	http://bit.ly/11jSvZg
DM/DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9

Central Inverters

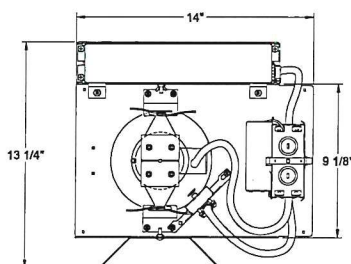
For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

LiteGear: www.dual-lite.com/products/litegear_lg_series

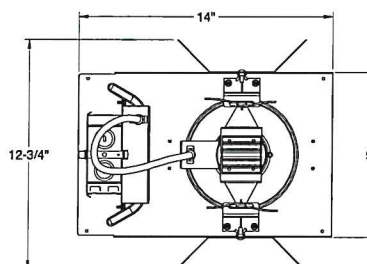
LPS Series: www.dual-lite.com/products/lps

SCA6D

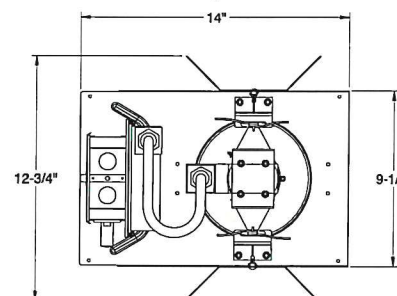
When ordering a sloped ceiling adapter, specify the degree of slope in 1 increments, maximum of 35 . For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed at the same time.



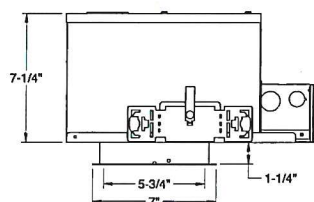
LC6SL EM



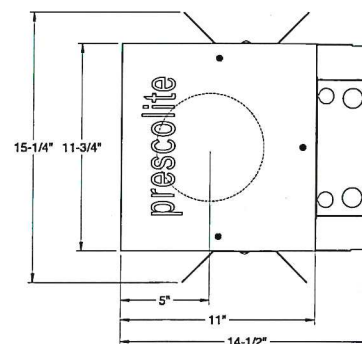
LC6SL 18L



LC6SL CP



LC6SL WWCP



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DL-FLEX-WETCC & DL-FLEX-WETCC-HO

LED FLEXIBLE LINEAR WET LOCATION
DL-FLEX-WETCC STATIC SERIES

Type

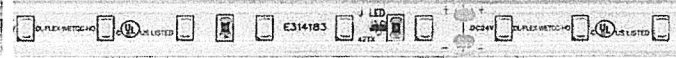
Project

Catalog No.

TYPE C



DL-FLEX-WETCC



DL-FLEX-WETCC-HO

DESCRIPTION

DL-FLEX-WETCC & DL-FLEX-WETCC-HO are flexible, outdoor LED tapes providing energy-efficient lighting for both indoor and outdoor applications. Constant current IC chips ensure consistent lumen output from the start of the run all the way to the end, and 3- Step MacAdam binning ensures color consistency. Both LED tapes are IP66 rated for outdoor applications with connectors having waterproof threaded cover to make the whole unit weatherproof. Uniquely molded endcaps with strain relief increases durability. Not field-cuttable.

Dimmable with a variety of dimming options. 3M™ VHB adhesive tape backing. For additional support, mounting clips or aluminum outdoor channel options available. (2) DL-PS-OD-CLIP mounting clips included with every run, recommended for use at the start and end of then run. For best results make bends on center between the LEDs with a bend angle no less than 45 degrees.

SPECIFICATIONS

Input Voltage	24V DC
Beam Angle	120°
Lamp Life	50,000 hours
CRI	80+
Dimensions (per section)	1/2"W x 1/4"H See Ordering Information for exact lengths.
LEDs (per ft)	18
LED Spacing	5/8"
Operating Temperature *	-22°F - 140°F
Max Run †	DL-FLEX-WETCC : 30 ft DL-FLEX-WETCC-HO : 20 ft
Cut Length †	~ 3-15/16"
Mounting	Double Sided 3M™ VHB tape (Optional: Clips or Channel)
Environment ‡	Dry, Damp, and Wet location IP66
Certifications	c US LISTED
Warranty	5 Years – see published warranty terms for detailed information.

* Exceeding the operating temperature values may damage the LEDs by reducing the lifespan, lumen output, and adversely impact color consistency. It is recommended adequate airflow and heatsinking be taken into consideration in the installation and application of this product. Improper thermal management may lead to premature product failure.

† Single runs cannot exceed max run values. Cut length indicates minimum increments.

‡ This product cannot be submersed in water.

LUMEN DATA

Part Number	Color Temp *	Watts (per ft)	Lumens (per ft)	Efficacy (lm/W)
DL-FLEX-WETCC	Warm White	1.3	108.6	83
	Neutral White	1.3	115.9	89
DL-FLEX-WETCC-HO	Warm White	3.25	266.5	82
	Neutral White	3.25	281.5	86.5

* Warm White: 2800-3200K, Neutral White: 3800-4200K

Contact factory for other color options.

APPLICATIONS

- Outdoor gardens
- Path and contour marking
- Outdoor display lighting
- Bathroom lighting
- Signage
- Accent and edge lighting
- Backlighting

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Rev
2/11/2017



DL-FLEX-WETCC & DL-FLEX-WETCC-HO

LED FLEXIBLE LINEAR WET LOCATION
DL-FLEX-WETCC STATIC SERIES

Type

Project

Catalog No.

TYPE C

LENGTH CHART

Note: DL-FLEX-WETCC is cut-to-length and, therefore, considered custom and non-returnable.

Length Chart

Order Length (feet)	Actual Length (+/- 1/2")
1	11'-13/16"
2	1' 11'-5/8"
3	2' 11'-7/16"
4	3' 11'-1/4"
5	4' 11'-1/16"
6	5' 10'-7/8"
7	6' 10'-11/16"
8	7' 10'-1/2"
9	8' 10'-5/16"
10	9' 10'-1/8"

Order Length (feet)	Actual Length (+/- 1/2")
11	10' 9'-15/16"
12	11' 9'-3/4"
13	12' 9'-9/16"
14	13' 9'-3/8"
15	14' 9'-3/16"
16	15' 9"
17	16' 8'-13/16"
18	17' 8'-5/8"
19	18' 8'-7/16"
20	19' 8'-1/4"

Order Length (feet)	Actual Length (+/- 1/2")
21	20' 11'-15/16"
22	21' 11'-3/4"
23	22' 11'-9/16"
24	23' 11'-3/8"
25	24' 11'-3/16"
26	25' 11"
27	26' 10'-13/16"
28	27' 10'-5/8"
29	28' 10'-7/16"
30	29' 6'-5/16"

Notes :

1. Add up to 1 to 1-1/4 inches to the specified length for the input and output connection options.
2. Specified lengths in white color temperatures can be cut down by increments of 3-15/16 inches.
Example: Desired length 20' 6". Order 21'. 21' = 20' 11-15/16".
20' 11-15/16" - 3-15/16" = 20' 8"
or
20' 11-15/16" - 7-1/16" = 20' 4-7/8"

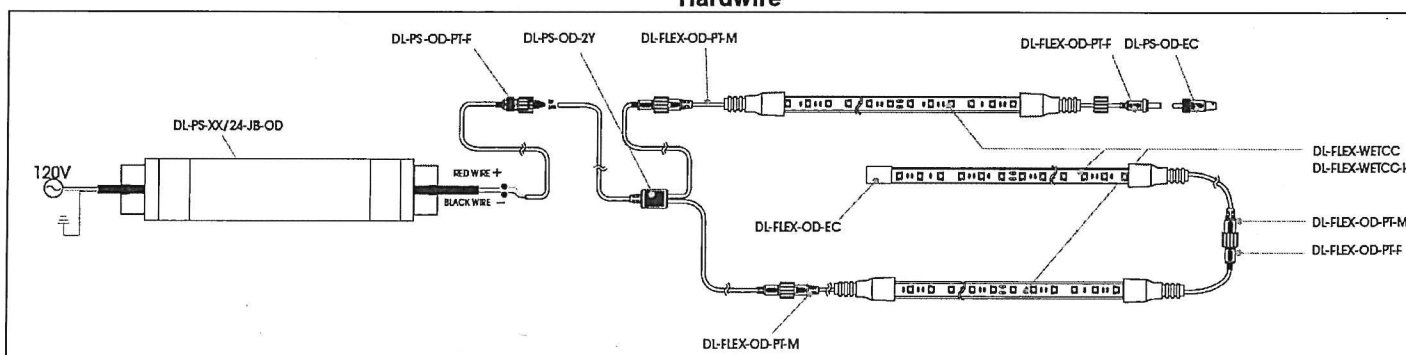
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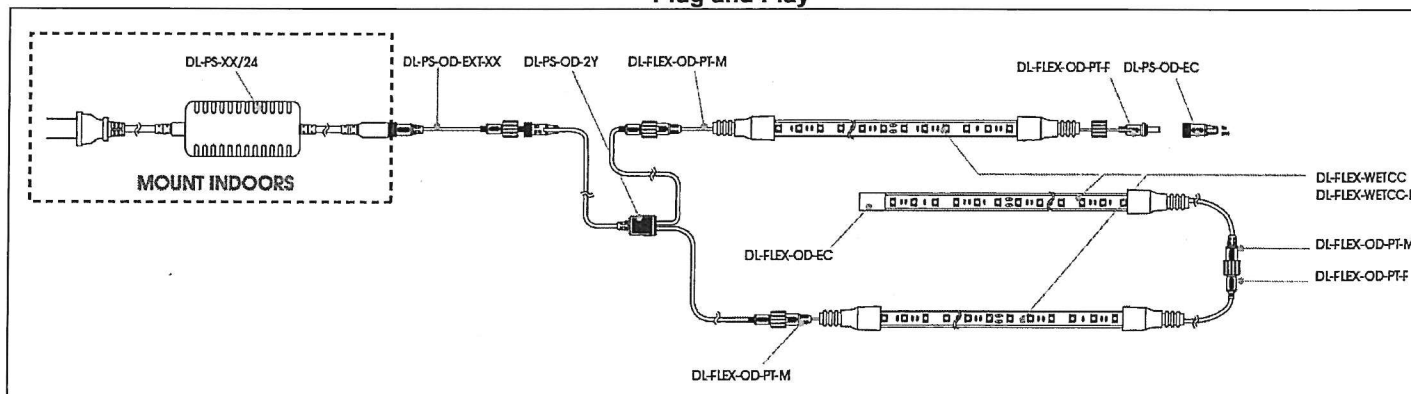
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WIRING DIAGRAMS – For reference purposes only. Not for installation. Not to scale.

Hardwire



Plug and Play



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DL-FLEX-WETCC & DL-FLEX-WETCC-HO

LED FLEXIBLE LINEAR WET LOCATION
DL-FLEX-WETCC STATIC SERIES

Type

Project

Catalog No.

TYPE C

POWER SUPPLY— See Specification Sheets for more information.

If the Max Load of a power supply exceeds the fixture's Max Run, then you may install multiple runs per given power supply.

Wattage = Max power capacity of power supply. May need to be de-rated if operating at max temperature.

Max Load = Fixture quantity a power supply can power.

Max Run = Maximum length of a single run.

Hard-Wire Dimmable Power Supplies* Dry and Wet Location (IP67) UL Listed (with Junction Box)		DL-FLEX-WETCC	DL-FLEX-WETCC-HO
		Max Run : 30 ft 1.3 W/ft	Max Run : 20 ft 3.25 W/ft
Model Number	Wattage	Max Load (ft) 8W min. load	Max Load (ft) 8W min. load
DL-PS-40/24-JB-DIM*	40	7-27	3-11
DL-PS-60/24-JB-DIM*	60	7-41	3-16
DL-PS-100/24-JB-DIM*	100	7-69	3-27

Hard-Wire Dimmable Power Supplies* Dry and Wet Location (IP67) UL Recognized		DL-FLEX-WETCC	DL-FLEX-WETCC-HO
		Max Run : 30 ft 1.3 W/ft	Max Run : 20 ft 3.25 W/ft
Model Number	Wattage	Max Load (ft) 8W min. load	Max Load (ft) 8W min. load
DL-PS-40/24-HW-DIM**	40	7-27	3-11
DL-PS-60/24-HW-DIM**	60	7-41	3-16
DL-PS-100/24-HW-DIM**	100	7-69	3-27

Hard-Wire Power Supplies Wet, Damp, or Dry Location UL Listed (with Junction Box)		DL-FLEX-WETCC	DL-FLEX-WETCC-HO
		Max Run : 30 ft 1.3 W/ft	Max Run : 20 ft 3.25 W/ft
Model Number	Wattage	Max Load (ft)	Max Load (ft)
DL-PS-80/24-JB-OD	80	55	22
DL-PS-96/24-JB-OD	96	66	26

Plug & Play Power Supplies Dry Location UL Listed		DL-FLEX-WETCC	DL-FLEX-WETCC-HO
		Max Run : 30 ft 1.3 W/ft	Max Run : 20 ft 3.25 W/ft
Model Number	Wattage	Max Load (ft)	Max Load (ft)
DL-PS-WP24/24	24	16	6
DL-PS-24/24	24	16	6
DL-PS-48/24	48	33	13
DL-PS-60/24	60	41	16
DL-PS-100/24	90	62	24
DL-PS-100/24-CL2 *	96	66	26

Hard-Wire Power Supplies Dry Location UL Listed (with Junction Box)		DL-FLEX-WETCC	DL-FLEX-WETCC-HO
		Max Run : 30 ft 1.3 W/ft	Max Run : 20 ft 3.25 W/ft
Model Number	Wattage	Max Load (ft)	Max Load (ft)
DL-PS-20/24-JBA	20	13	5
DL-PS-60/24-JBA	60	41	16
DL-PS-96/24-JBA	96	66	26

* UL listed Class 2 power supply.

** UL Recognized Class 2 power supply.

▲ Dimmable with TRIAC dimmer, requires a minimum 8W of load

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DL-FLEX-WETCC & DL-FLEX-WETCC-HO

LED FLEXIBLE LINEAR WET LOCATION
DL-FLEX-WETCC STATIC SERIES

Type

Project

Catalog No.

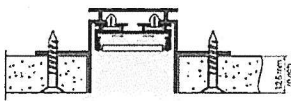
TYPE C

CHANNEL FEATURE MATRIX

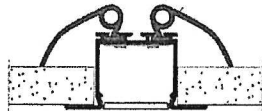
	ROUGH-IN				BASIC
	CH-RI-11	CH-RI-12	CH-RI-13	CH-RI-14	DL-FLEX-OD-CH6
DL-FLEX-UP	•	•	•	•	•
DL-FLEX-HO	•	•	•	•	•
DL-FLEX-UP-ULTRA	•	•	•	•	•
DL-FLEX-HD	•	•	•	•	•
DL-FLEX-UP-RGB	•	•	•	•	•
DL-FLEX-UP-CTA	•	•	•	•	•
DL-FLEX-WETCC	•	•	•	•	•
Surface Mounting			C	C/E	D
45° Mounting					
Recessed – For Miter Grooves					
Rough-in – For Walls & Ceilings	A/B	A	A	A	
Adjustable Mounting					
Outdoor Mounting					•
Flangeless			•	•	•
Flanged	•	•			
Lens Included					
Lensless					•
Lens – UV and Fire Rated up to 240F option	•	•	•		
Small Profile Depth – Diffused Light					•
Medium Profile Depth – More Diffused Light					
Large Profile Depth – Best Diffused Light	•	•	•	•	
Aluminum – Anodized	•	•	•	•	•
MDF (easy paintable)					
6 Ft. Length					•
6-1/2 Ft. Length (2 meters)	•	•	•	•	

SUGGESTED MOUNTING TECHNIQUES

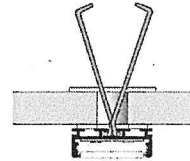
A Drywall Recessed Rough-In Mounting with Channel Housing



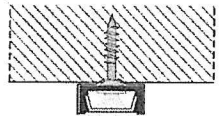
B Drywall Recessed Rough-In Mounting with Spring Clip



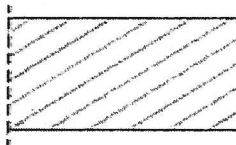
C Surface Mounting onto Drywall or Drop Ceilings



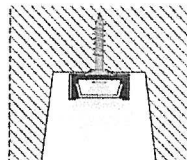
D Surface Mounting with Bracket



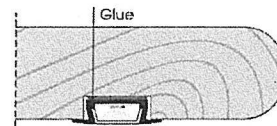
E Surface mounting by Sliding onto Flat Head Screws



F Recessed Mounting into Mitered Groove with Bracket



G Recessed Mounting into a Mitered Groove using a flanged Channel



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Rev
2/11/20

LNC SERIES

Cat.#

Job

TYPE G



HUBBELL
Outdoor Light

Approvals

SPECIFICATIONS

Intended Use:

The compact LED LNC is designed for entry/perimeter illumination for safety, security and identity. Typical mounting height is up to 12 feet with 40ft fixture spacing (without acrylic diffuser) and 30ft spacing with acrylic diffuser installed. Photocontrol option is available to provide dusk-to-dawn control for additional energy savings.

Construction:

Decorative die-cast aluminum housing and door. Rugged design protects internal components and provides excellent thermal management for long life – 60,000 hours minimum LED life at L96 rating per IESNA TM-21-11. Powder paint finishes provide lasting appearance in outdoor environments.

Optics/Electrical

LED:

Drivers are 120-277V, 50/60Hz Type II, III and Type IV lenses provide wide lateral spread.

- 0-10V dimming 120-277V only.
- LNC5L – 5 LEDs, Types II, III or IV available, see page 2 for electrical details
- LNC7L – 7 LEDs, Type II, III or IV available, see page 2 for electrical details
- LNC9L – 9 LEDs, Types II, III or IV available, see page 2 for electrical details
- 3000K - 80 CRI, 4000K - 70 CRI, and 5000K - 70 CRI, CCT nominal
- Minimum operating temperature is -40°C/-40°F
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion

Lenses:

Full cut-off distribution; Ambient diffuser included, use for applications near entrances or locations where reduced brightness is desired.

Installation:

Quick mount adapter provides quick installation, designed for recessed box 4" square junction box.

Listings:

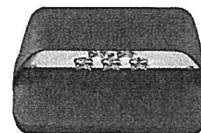
Listed and labeled to UL 1598 for wet locations, 25° C ambient environments. DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at: <http://www.designlights.org/>

- IES Progress Award Winner - 2012

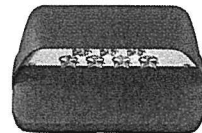
Warranty:

Five year limited warranty. For more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>

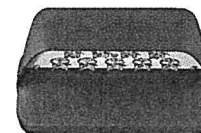
PRODUCT IMAGE(S)



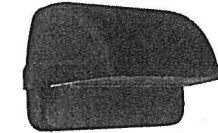
LNC-5L



LNC-7L

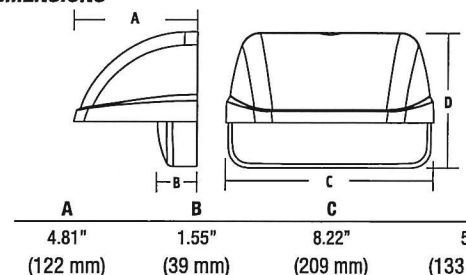


LNC-9L



With diffuser

DIMENSIONS



SHIPPING INFORMATION

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
LNC-5LU	9.6 (4.36)	14.5 (37)	9.6 (24.5)	6.8 (17.5)
LNC-7LU	9.6 (4.36)	14.5 (37)	9.6 (24.5)	6.8 (17.5)
LNC-9LU	9.6 (4.36)	14.5 (37)	9.6 (24.5)	6.8 (17.5)

CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only

ORDERING INFORMATION

ORDERING EXAMPLE: LNC-9LU-5K-3-1-PCU

LNC - [] - [] - [] - [] - []						
SERIES	NUMBER OF LEDS	VOLTAGE	CCT	IES DISTRIBUTION	FINISH	OPTIONS
LNC LNC zero uplight	5L 5 LEDs 7L 7 LEDs 9L 9 LEDs	U 120V-277V 1 120V 2 208V 3 240V 4 277V	3K 3000K nominal, 70 CRI 4K 4000K nominal, 70 CRI 5K 5000K nominal	2 Type II 3 Type III 4 Type IV	1 Bronze 2 Black 3 Gray 4 White 5 Platinum	PCU Universal Button Photocell
AM ¹ Amber (590 nm) available for "Turtle Friendly"/observatory applications, 350 mA (consult factory)						

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¹ Amber LEDs only available on 7LU and 9LU configurations, 350 mA only



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Due to our continued efforts to improve our products, product specifications are subject to change without notice.

LAREDO LNC-SPEC

Specification Sheet

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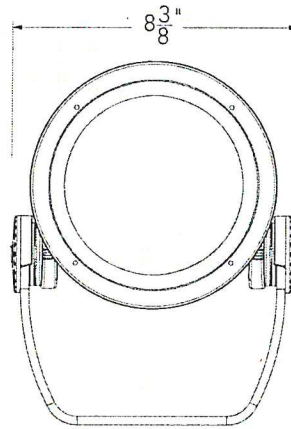
lumenbeam
Me
COLOR CHANG

Project Name _____

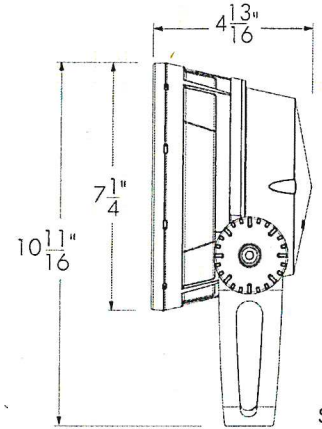
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Qty _____

Type _____ Catalog / Part Number _____



Front view



Side

Photometric Summary

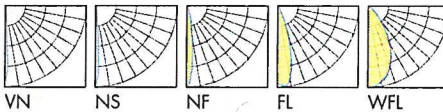
Based on RGBW color mix, full output

	Delivered output (lm)	Intensity (peak cd)
VN	1,024	43,534
NS	947*	34,718*
NF	905*	6,636*
FL	871*	2,442*
WFL	836*	800*

Photometric performance is measured in compliance with IESNA LM-79-08.

*Estimated. Consult website for the latest IES and IDT files.

Optics



Control

DMXrdm

Rating



Description

The Lumenbeam Medium Color Changing is a high-performance 28W luminaire for applying dynamic color to facades, columns, trees and other landscape features. It provides great flexibility offering a choice of optics for flood or accent lighting; RGB, RGBW or RGBA color mixing; various mounting options, accessories, spread lenses and controls.

Features

Color and Color Temperature	Additive RGB, Additive RGB + white 4000K, Additive RGB + amber
Optics (nominal distribution)	6°, 10°, 20°, 40°, 60°
Optical Option	Linear spread lens horizontal distribution, Linear spread lens vertical distribution
Options	Short Yoke, 3G ANSI C136.31 Vibration Rating for bridge applications, Corrosion-resistant coating for hostile environment
Power Consumption	28 W
Warranty	5-year limited warranty
Performance	
Delivered Output	887 lm (RGB full white, VN optic), 1,024 lm (RGBW full output, VN optic), 855 lm (RGBA full output, VN optic)
Delivered Intensity	36,162 cd at nadir (RGB full output, VN optic), 43,534 cd at nadir (RGBW full output, VN optic), 33,350 cd at nadir (RGBA full output, VN optic)
Color Consistency	2 SDCM
Lumen Maintenance	L70 120,000 hrs (Ta 25 °C)

Specification Sheet

Physical

Housing Material	Low copper content high pressure die-cast aluminum
Yoke Material	Heavy aluminum (standard yoke included)
Lens Material	Clear tempered glass
Hardware Material	Stainless steel
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	6.7 lbs
EPA	Front = 0.46 sq ft, Side = 0.37 sq ft

Electrical and control

Voltage	100 to 277 volts
Fixture Cable	Power and data in 1 cable, 3 ft cord standard (#16-5), other lengths available
Inrush Current (peak)	21A @230VAC (RGB), 75A @230VAC (RGBW, RGBA)
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBA)
Control	DMX/RDM enabled, Lumentalk system is enabled with LDB accessory - see typical wiring diagrams for details

Environmental

Operating Temperature	-13 °F to 122 °F
IP Rating	IP66
IK Rating	IK09

Accessories (order separately)

Control Boxes	Power and control box - daisy chain configuration, Power and control box - star configuration, Lumentalk Data Bridge
Control Systems	Lumentouch 2.0™, Lumencue, Lumentone
Diagnostic and Addressing Tools	LumenID, LumentalkID

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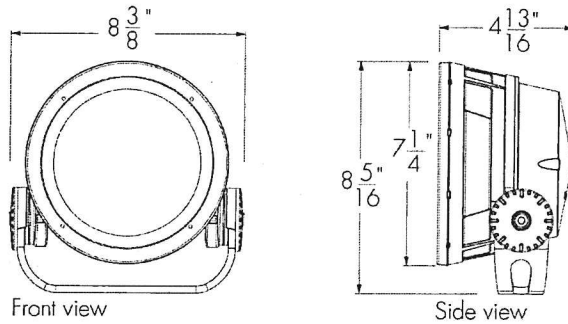
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Specification Sheet

lumenpulse
M
COLOR CHART

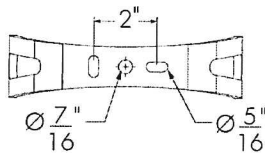
Mounting options

SY - Short yoke

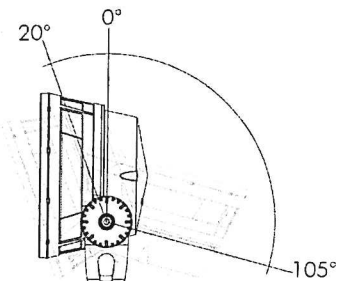
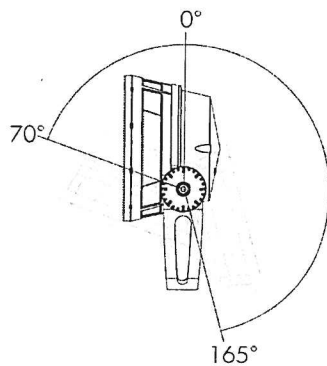


Mounting details

Mounting hole pattern - standard and short yoke

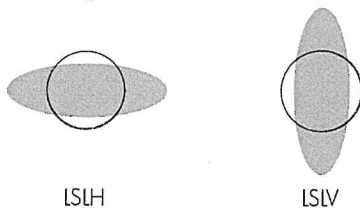


Adjustable pivot limits



Optical options

LSLH - Linear spread lens horizontal distribution
LSLV - Linear spread lens vertical distribution



	Beam angle with LSLH/LSLV
VN	8° x 60°
NS	9° x 60°
NF	18° x 65°
FL	32° x 72°

Factory installed, not adjustable on site. Not available for WFL optic.
See 'Optical Accessories' section for field adjustable spread lens (LSLA).

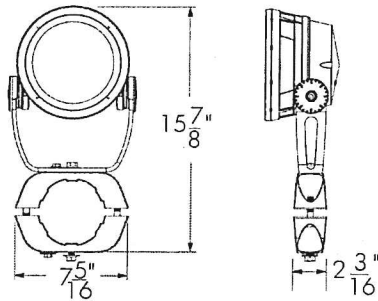
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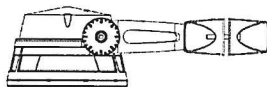
Specification Sheet

Mounting accessories (order separately)

Round pole mounting accessory



PM4 model shown.
Consult factory for square pole section.



PM4-1, PM4.5-1, PM5-1 - Round pole mounting accessory - single fixture

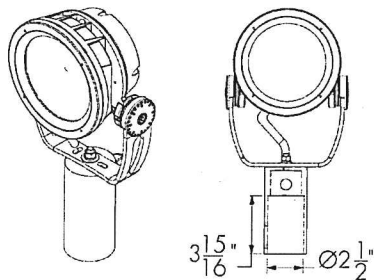


PM4-2, PM4.5-2, PM5-2 - Round pole mounting accessory - twin fixtures
*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

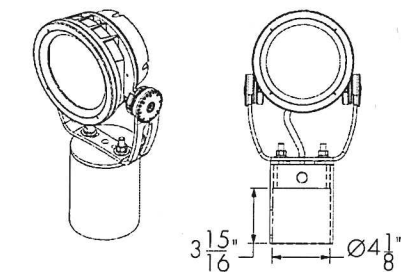
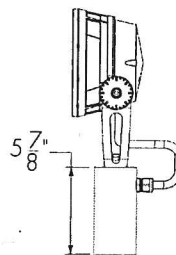
	PM4	PM4.5	PM5
For pole Ø	4" ± 1/16"	4.5" ± 1/16"	5" ± 1/16"

Consult factory for other pole diameters.

Tenon adapter

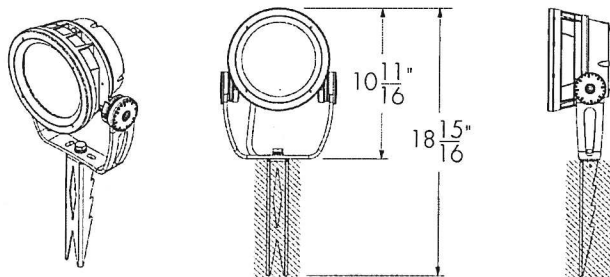


TN2 - Tenon adapter to fit on 2 3/8 in O.D. tenon



TN4 - Tenon adapter to fit on 4 in O.D. tenon

SK - Stake mounting



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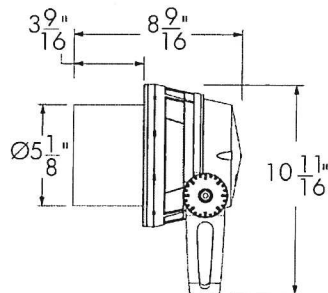
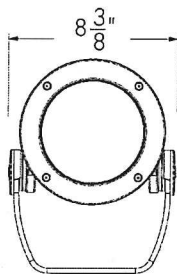
Specification Sheet

lumenpulse
M
COLOR CHART

Optical accessories (order separately)

Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

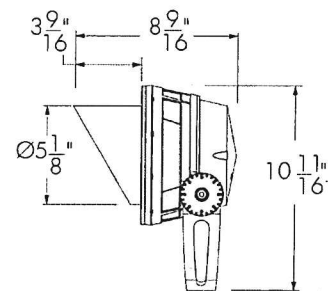
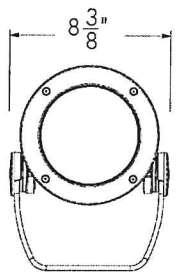
SN - Snoot



LBMSN-FINISH-BK

Interior surface painted black. Please specify desired exterior FINISH from list of available finishes.

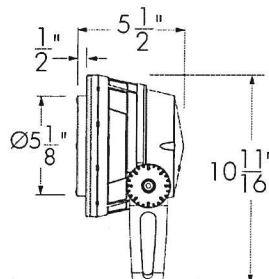
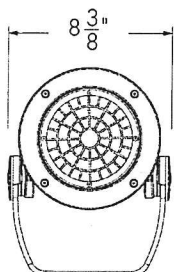
VS - Visor



LBMVS-FINISH-BK

Interior surface painted black. Please specify desired exterior FINISH from list of available finishes.

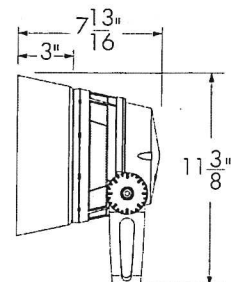
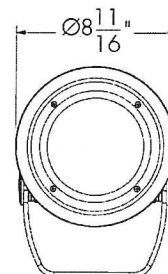
WG - Wire guard



LBMWG-FINISH

Please specify desired exterior FINISH from list of available finishes.

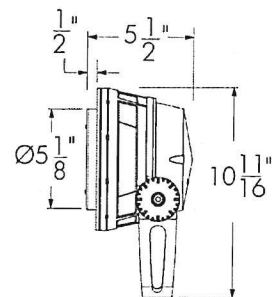
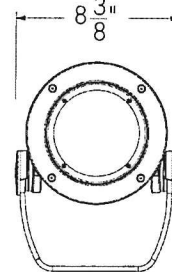
SNW - Snoot wide



LBMSNW-FINISH-BK

Interior surface painted black. Please specify desired exterior FINISH from list of available finishes.

LSLA - Linear spread lens adjustable



LBMLSLA-FINISH

Please specify desired exterior FINISH from list of available finishes.

Accessory combinations

	+	Snoot	Snoot wide	Visor
Linear spread lens adjustable		YES	NO*	YES
Wire guard		YES	NO	YES

Accessory combinations must be ordered together on a single line.

Ex: A snoot + wire guard combination order code is LBMSNWG-BK-BK.

*Consult factory for a linear spread lens adjustable + snoot wide combination.

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Specification Sheet

Available exterior finishes for optical accessories

BK - Black Sandtex®

BRZ - Bronze Sandtex®

SI - Silver Sandtex®

WH - Smooth white

BKTX - Textured black

BRZTX - Textured bronze, non-metallic

GRATX - Textured medium gray

GRNTX - Textured green

WHTX - Textured white

CC - Custom color and finish (please specify RAL color)*

*Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other textures and glosses, or to match alternate color charts. Final color matching results may vary.

Specification Sheet

lumenbeam™
Me
COLOR CHAN

How to order

1	2	3	4	5	6	7	8
LBM							
9	10						

1 . Housing

LBM Lumenbeam™ Medium

2 . Voltage

100	100 volts
120	120 volts
208	208 volts
220	220 volts
240	240 volts
277	277 volts

3 . Color and Color Temperature ⁽¹⁾

RGB	Additive RGB
RGBW	Additive RGB + white 4000K
RGBA	Additive RGB + amber

4 . Optics

VN	Very Narrow 6°
NS	Narrow Spot 10°
NF	Narrow Flood 20°
FL	Flood 40°
WFL	Wide Flood 60°

5 . Optical Option

LSLH	Linear spread lens horizontal distribution ⁽²⁾
LSLV	Linear spread lens vertical distribution ⁽²⁾

6 . Finish

BK	Black Sandtex®
BRZ	Bronze Sandtex®
SI	Silver Sandtex®
WH	Smooth white
BKTX	Textured black
BRZTX	Textured bronze non-metallic
GRATX	Textured medium gray
GRNTX	Textured green
WHTX	Textured white
CC	Custom color and finish (please specify RAL color) ⁽³⁾

7 . Control ⁽⁴⁾ ⁽⁵⁾

DMX/RDM	DMX/RDM enabled
---------	-----------------

8 . Options

SY	Short Yoke
3GV	3G ANSI C136.31 Vibration Rating for bridge applications
CRC	Corrosion-resistant coating for hostile environments ⁽⁶⁾

9 . Certification

UL	UL compliant
CE	CE compliant

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Specification Sheet

10 . Cable Length ⁽⁷⁾

3FT	3 ft ⁽⁷⁾ ⁽⁸⁾
10FT	10 ft
20FT	20 ft
30FT	30 ft
50FT	50 ft
70FT	70 ft
100FT	100 ft

Notes:

⁽¹⁾ Consult factory for color mix with Royal Blue, 3000K or other white color temperature LEDs.

⁽²⁾ Factory installed, not available for 60° optic. Field adjustable spread lens optical accessory available order separately.

⁽³⁾ Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

⁽⁴⁾ Lumentalk system is enabled with LDB-DMX accessory, DMX/RDM must be specified in the order. See the typical wiring diagrams in the specification sheet for details.

⁽⁵⁾ A Lumentranslator and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator and Lumentalk pages and specification sheets for details.

⁽⁶⁾ Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure.

⁽⁷⁾ 3 ft cable length is standard unless otherwise specified.

⁽⁸⁾ Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.

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VALUES ARE FC, SCALE: 1 IN=4.0 FT, VERT GRID (E), VERT CALC ROOM BEET STANCES TO 40.00 " 31.00 "

ROOM REFLECTIONS: 80 / 50 / 20 (Ceiling/Walls/Floor,

Computes in accordance with IES recommendations

Statistics

GROUP	MIN	MAX	AVE	AVE/MIN	MAX/MIN
(+)	0.00	43.03	3.00	N/A	N/A

Luminaires Used

TYPE	QTY	TEST#	DESCRIPTION
C	40	DL-FLEX-	JESCO LIGHTING, DL-FLEX-UP-30, 1/4"L. X 12"W. X 1/8"H. LED FL, SHOULD NOT BE FACTORED FOR DIFF LAMPS: (1) NA, 116 LUMENS, BLST: JESCO ACADAPTOR, LLF = 0.90 @27.00

[illegible]

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LitePro 2.030 Point-By-Point Results

6/12/2019

PROJECT: Moran Bathrooms/19089 GROUP: Level 1 AREA: Bathroom GRID: Ground

PREPARED BY:

VALUES ARE FC, SCALE: 1 IN= 2.0FT, HORZ GRID (U), HORZ CALC, Z= 0.0

ROOM REFLECTANCES: 80 / 50 / 20 (Ceiling/Walls/Floor)

Computed in accordance with IES recommendations

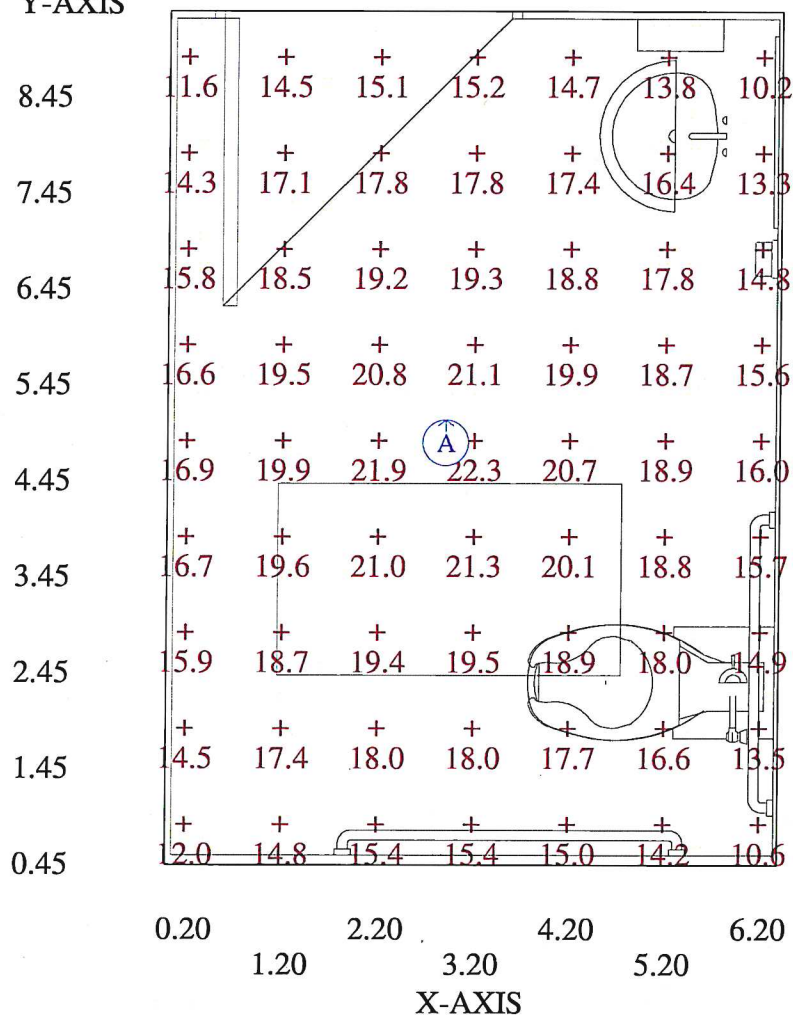
Statistics

GROUP	MIN	MAX	AVE	AVE/MIN	MAX/MIN
(+)	10.24	22.30	17.05	1.66	2.18

Luminaires Used

TYPE	QTY	TEST#	DESCRIPTION
A	1	LC6SL_6L	PRESCOLITE, LC6SL 6LCSL18L35K8, 6" LED Downlight, 3500K, 3 SDC, LAMPS: (1) NFSL757GT-V1, 1904 LUMENS, BLST: LED25W-36-C0700, LLF = 0.90 @8.00

Y-AXIS



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PROJECT: Moran Bathrooms/19089 GROUP: Level 1 AREA: Inside Building GRID: Ground
 PREPARED BY:
 VALUES ARE FC, SCALE: 1 IN=5.0FT, HORZ GRID (U), HORZ CALC, Z=0.0

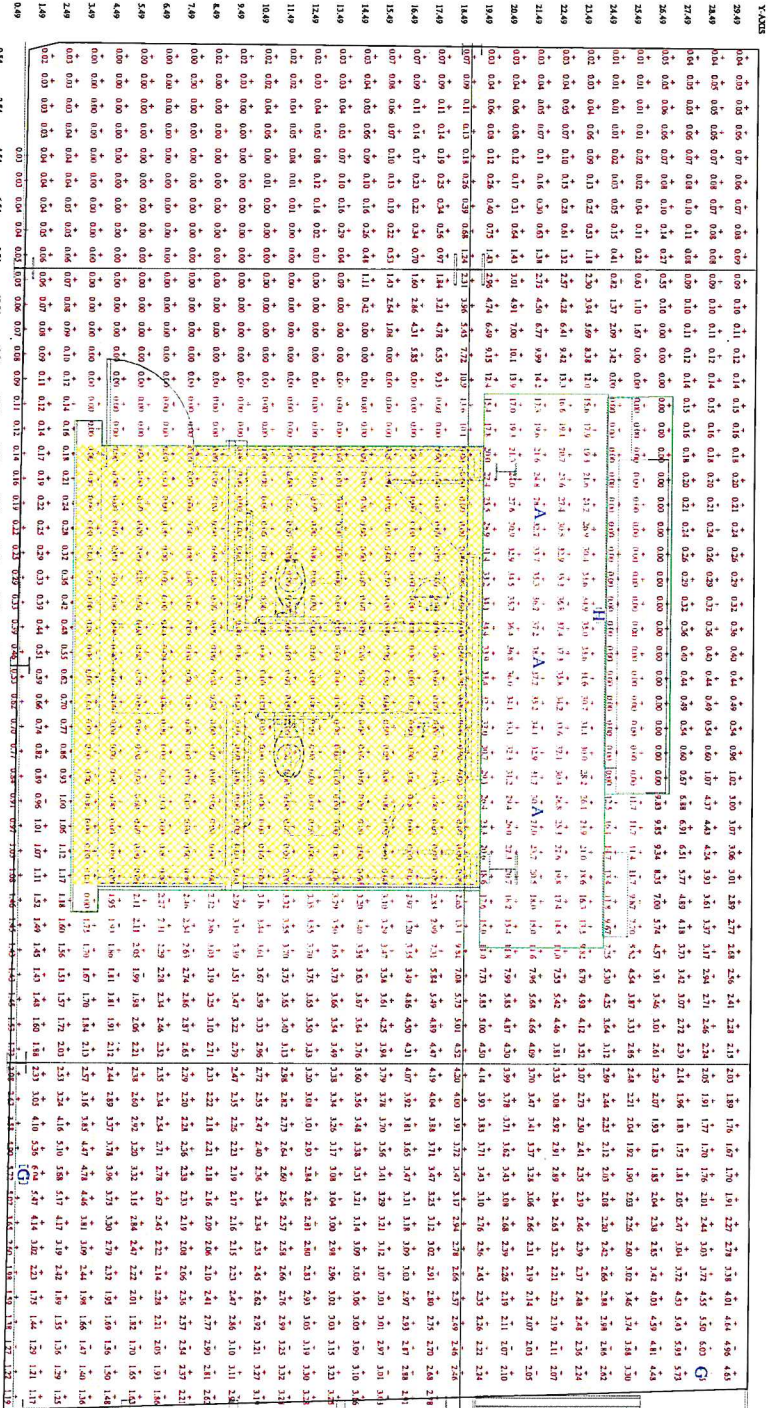
Computed in accordance with IES recommendations

Statistics

GROUP	MIN	MAX	AVE	AVE/MIN	MAX/MIN
(+)	0.00	38.09	3.35	N/A	N/A

Luminaires Used

TYPE	QTY	TEST#	DESCRIPTION
A	3	LC6SL_6L	PRESCOLITE, LC6SL 6LCSL18L35K8, 6" LED Downlight, 3500K, 3 SDG, LAMPS: (1) NFSU/75GT-V1, 1904 LUMENS, BLST: LED25W-36-C0700, LLF = 0.90 @ 8.90
G	2	LN2-12L	HUBBELL OUTDOOR, LN2-12L-4K-070-4, Liepak LN2, LAMPS: (1), 2785 LUMENS, BLST: , LLF = 0.90 @ 12.00
H	1	CY2-35-3	ARCHITECTURAL A, CY2-35-3K7-1-4-R, CY2, DATA SHOWN IS ABSOLUTE, LAMPS: (1), 3129 LUMENS, BLST: , LLF = 0.90 @ 7.00



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LitePro 2.030 Point-By-Point Results

6/12/2019

PROJECT: Moran Bathrooms/19089 GROUP: Level 1 AREA: Mech 103 GRID: Ground

PREPARED BY:

VALUES ARE FC, SCALE: 1 IN= 3.0FT, HORZ GRID (U), HORZ CALC, Z= 0.0

ROOM REFLECTANCES: 80 / 50 / 20

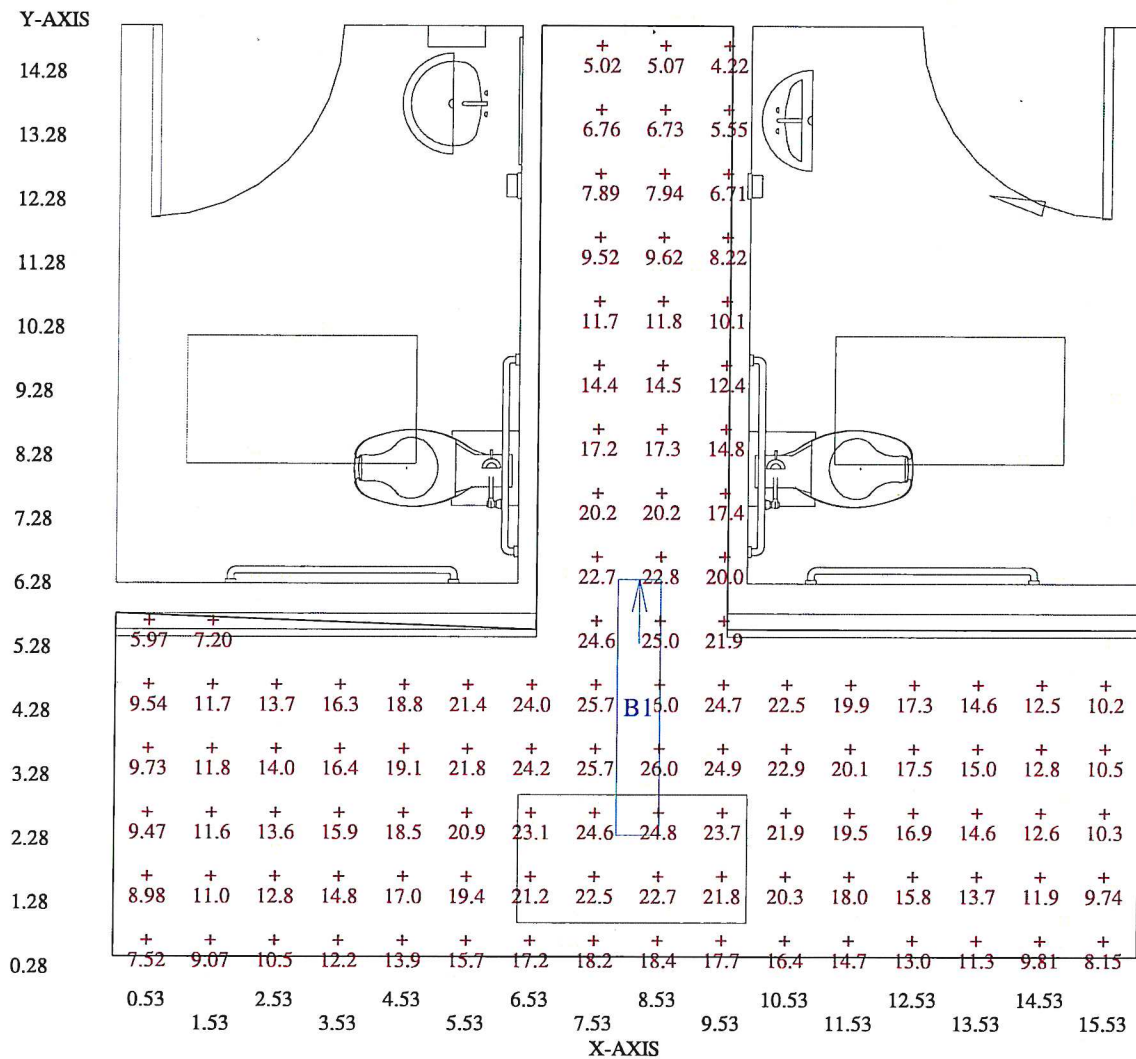
Computed in accordance with IES recommendations

Statistics

GROUP	MIN	MAX	AVE	AVE/MIN	MAX/MIN
(+)	4.22	26.01	15.66	3.71	6.16

Luminaires Used

TYPE	QTY	TEST#	DESCRIPTION
B1	1	RLW4-40M	COLUMBIA LIGHTI, RLW4-40ML-FAW-EDU, Revalume Linear Surface, Wraps, 8.5" x 48" with frosted acryli LAMPS: (1) Led, 4931 LUMENS, BLST: XI040C110V054BS, LLF = 0.90 @8.40



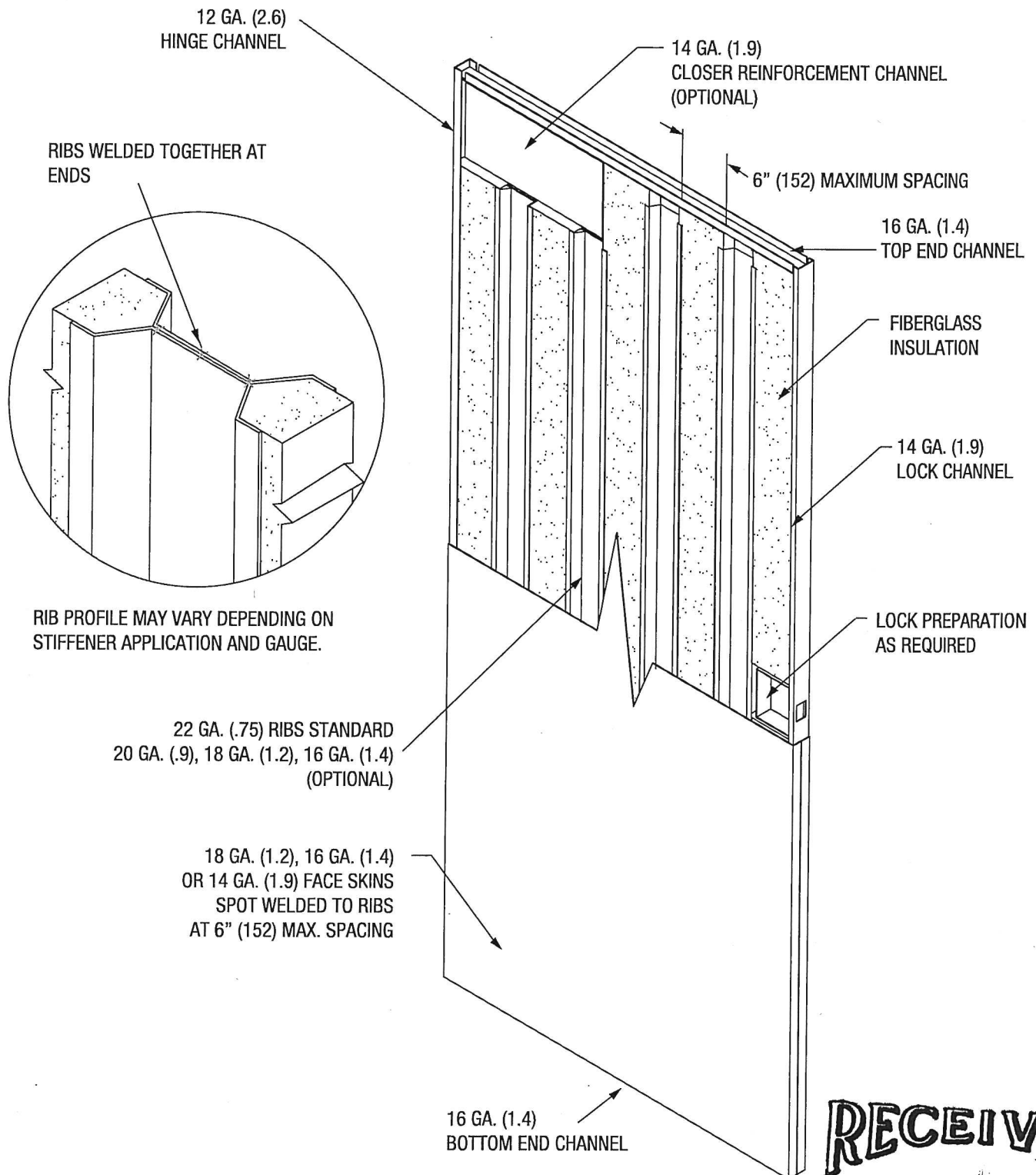
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747 Door Construction**Door Technical Data**

September, 2014

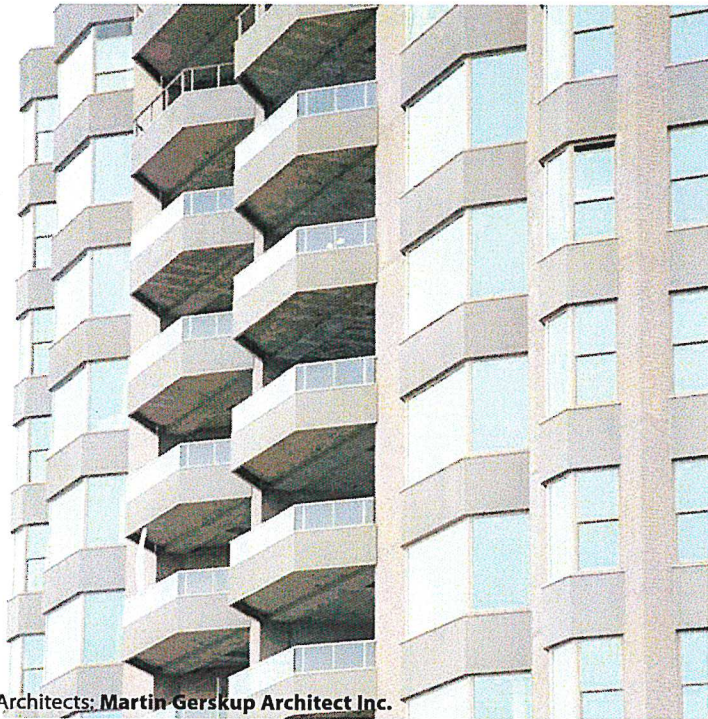
CURRIES**ASSA ABLOY**

A STEEL STIFFENED DOOR DESIGN IS AVAILABLE WITH A
450° TEMPERATURE RISE FIRE RATING ON PAGE 169.

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Architects: **Martin Gerskup Architect Inc.**

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- *Excellent energy efficiency with NO need for a thermal break.*
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Commercial Applications WHERE EFFICIENCY IS CRITICAL

From office towers to apartment complexes

An experienced, dedicated team of engineers and designers have created window and door systems which are uniquely suited to broad architecture/design applications and are guaranteed to exceed your expectations.

Whether you are designing "assisted living facilities", replacing windows in hotels or buildings, consider the exceptional advantages of pultruded fiberglass window and door systems. Included performance tables provide basic performance levels.

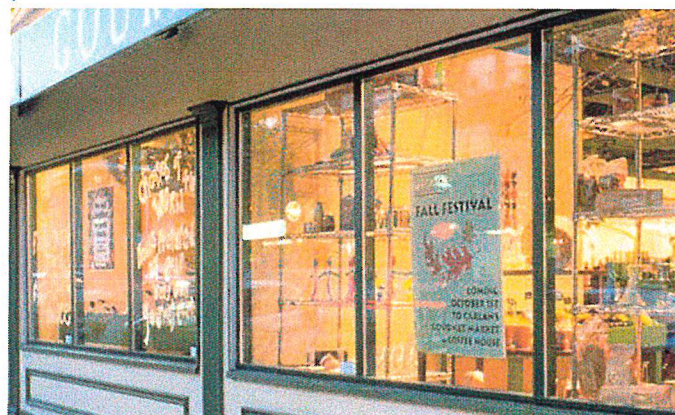
Additional information is readily available at
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Architects: **Teeple Architects**

400 SERIES

- 4" frame available in full range of configurations including T-mullion or strip style assembly.
- **STRONG**, Low conductive material creates superior thermal characteristics, further enhanced when combined with high performance glazing options.
- **FULL** range of finish choices including 5 standard colors as well as custom colors suitable for split finish (interior or exterior) combinations.





How Plan

