



Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review
Planning & Preservation Division
900 E. Broad Street, Room 510
Richmond, Virginia 23219
(804) 646-6335

<http://www.richmondgov.com/CommitteeUrbanDesign>

Application Type

- Addition/Alteration to Existing Structure
 New Construction
 Streetscape
 Site Amenity

- Encroachment
 Master Plan
 Sign
 Other

Review Type

- Conceptual
 Final

Project Name: _____

Project Address: _____

Brief Project Description (this is not a replacement for the required detailed narrative) : _____

Applicant Information

(on all applications other than encroachments, a City agency representative must be the applicant)

Name: _____ Email: _____

City Agency: _____ Phone: _____

Address: _____

Main Contact (if different from Applicant): _____

Company: _____ Phone: _____

Email: _____

Submittal Deadlines

All applications and support materials must be filed no later than 21 days prior to the scheduled meeting of the Urban Design Committee (UDC). Please see the schedule on page 3 as actual deadlines are adjusted due to City holidays. **Late or incomplete submissions will be deferred to the next meeting.**

Filing

Applications can be mailed or delivered to the attention of "Urban Design Committee" at the address listed at the top of this page. **It is important that the applicant discuss the proposal with appropriate City agencies, Zoning Administration staff, and area civic associations and residents prior to filing the application with the UDC.**

UDC Background

The UDC is a ten member committee created by City Council in 1968 whose purpose is to advise the City Planning Commission on the design of projects on City property or right-of-way. The UDC provides advice of an aesthetic nature in connection with the performance of the duties of the Commission under Sections 17.05, 17.06 and 17.07 of the City Charter. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.

March 19, 2015

Urban Design Committee
Department of Planning and Development Review
Planning & Preservation Division
900 E. Broad Street, Room 510
Richmond, VA 23219

RE: City of Richmond Department of Public Works – Commerce Road Complex

Dear Urban Design Committee:

The City of Richmond Department of Public Works is submitting this application for final approval for the construction of two new buildings on the Commerce Road Complex. The Conceptual Plan was reviewed and approved conditionally by the UDC on the March 5th meeting with the following comments:

- The final plans include a landscaping plan, showing plant species, quantity, location and size at the time of installation.
- That the applicant considers providing landscaping and/or an architectural treatment along the Commerce Road side of Building 2 to break up the large blank façade.
- That the final plans include a lighting plan, showing make, model and finish for any light pole and fixture, as well as fixture light source and color temperature.
- That the outdoor employee break area adjacent to the office building be located in a landscaped area rather than next to the mechanical equipment.
- That a similar outdoor break area be located adjacent to the garage building.
- That the applicant considers providing skylights in the roof of the garage building to maximize access to natural light.
- That concertina or barbed wire is not used on the fences between the buildings along the Commerce Road frontage of the site.

The site design team has addressed each of these comments and provides the following responses:

- The final site plans include a detailed landscaping plan and planting schedule including plant type, size, and quantity. The final landscape design incorporates Red Maple and Red Eastern Redbud trees which provide shade canopy coverage with shrubbery interspersed throughout the site. All plantings following the “Recommended Plant Species” list included in Appendix 5 of the City of Richmond Urban Design Guidelines.
- The provided landscape plan includes an enhanced landscape area on the Commerce Road side of Building 2. As requested, the design incorporates attractive tree and shrubbery plantings designed to complement and soften the proposed building exterior. Red maple trees are included

along the western face of Building 2 to aid in softening the façade. Architecturally, the building design has changed slightly to meet budget constraints. The splitface CMU block, originally shown on all Building 2 facades, has been removed with the exception of the Commerce Road façade. The CMU splitface block will remain on this side of the structure to provide architectural interest on the façade facing the public right-of-way.

- The revised final site plan shows a total of four (4) freestanding light poles placed mainly in the visitor/employee parking area along Commerce Road. The one exception is a light pole adjacent to the existing Police Forensics building. The fixtures will be Cimarron LED fixtures, matching the approved fixtures at the 1801 Commerce Road project. The lighting temperature is specified as 3000k. It is the intent for the fixtures to be cut-off fixtures to limit light shed to the subject property and also meet LEED credit criteria. Cut sheets for this fixture are attached to this submittal. In addition to freestanding light poles, the buildings will include wall packs to light sidewalks and parking spaces adjacent to the buildings. The cut sheets for these lights are attached to this submittal. Fixture and pole colors will be selected to blend with the surrounding development and the proposed building facades.
- The outdoor employee break area associated with Building 1 has been relocated to a landscape island on the southwest corner of the proposed building. A shade tree is located adjacent to the break area to provide shade and cover for the employees.
- Per the UDC suggestion, a similar outdoor break area has been provided adjacent to Building 2. This break area is located on the southeast corner of the building in a shaded landscape island.
- Building 2 is strictly a storage-type facility and, similar to the recently approved facility at 1801 Commerce Road, the building functions do not include office, maintenance or repairs. The use is strictly for the parking of fleet vehicles. Therefore, there is no regular occupation of the facility. In addition, the schematic project budget reflected a shortfall of approximately \$1.5 million. In order to align the project scope with the budget and in careful consideration of the occupancy issue, the Department of Public Works opted to not include skylights in the building design.
- The Department of Public Works has agreed to not include concertina or barbed wire on the fencing in between Buildings 1, 2 and the existing Police Forensics Building.

As part of the project design process, the Department of Public Works, in conjunction with the design team, performed a cost estimate of the conceptual design documents. The results of that estimate showed the project to be approximately \$1.5 million over the approved project budget. In order to align the budget and proposed features while maintaining the required LEED certification elements, minor architectural treatments were altered and the overall site work scope significantly reduced. As mentioned above, the splitface CMU treatment of Building 2 was reduced to help meet the construction budget. Masonry treatment has been included on the Commerce Road building façade and Building 1 design has not been altered from the Conceptual Design. The final site work scope encompasses the areas surrounding the proposed Building 1 and Building 2 only. All work associated with grading, paving, and striping the remaining complex have been eliminated in this phase. This particular scope will be performed under a separate project included in the 2017 year budget cycle.

Construction Schedule

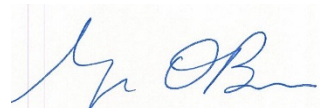
The construction schedule is unchanged from the Conceptual Design submittal. Construction is slated to commence in June 2015. The relocation of City operations and occupancy of the new facilities is scheduled to occur in December 2015. After the occupation of the new facilities at both the Commerce Road Complex and the N. Hopkins Road Complex, building abatement and demolition, soil remediation

and general site work will proceed on the Boulevard / Parker Field Complex. This construction project will be completed concurrently with the N. Hopkins Road Complex project.

Project Budget and Funding Sources

As stated previously, Conceptual Design construction estimates exceed the approved project budget by approximately \$1.5 million. The Department of Public Works and design team are working to reduce scope to align the costs with the approved budget. The Commerce Road Complex and N. Hopkins Road Complex projects are considered one project in the City budget. The total project construction budget inclusive of Commerce Road and N. Hopkins Road is estimated to be \$8 million, utilizing funding source 500598-50001-0601-1122-SV0400-102952.

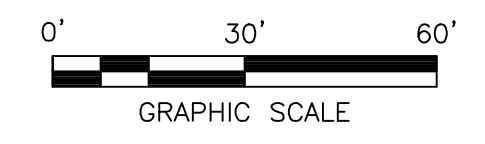
Sincerely,

A handwritten signature in blue ink, appearing to read "Meaghan O'Brien", is written over a light blue rectangular background.

Meaghan O'Brien, PE
Project Manager

PLANT SCHEDULE					
KEY	QUANTITY	NAME	SIZE	REMARKS	SPACING
DECIDUOUS TREES					
AR	15	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2 1/2" CAL.	B#B	PER PLAN
CC	15	CERCIS CANADENSIS 'APPALACHIAN RED' APPALACHIAN RED EASTERN REDBUD	2 1/2" CAL.	B#B	PER PLAN
SHRUBS					
AA	108	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA' RED CHOKEBERRY	2' HT.	CONT.	PER PLAN
RR	21	ROSA RADRAZZ 'RED KNOCK OUT' RED KNOCK OUT ROSE	2' HT.	CONT.	PER PLAN

MATERIAL LEGEND					
	MEDIUM DUTY POROUS PAVEMENT		NEW BUILDINGS		SITE STORAGE AREAS
	LIGHT DUTY POROUS PAVEMENT		LANDSCAPED AREAS		STORMWATER MANAGEMENT AREA
	NEW GRAVEL AREAS		NEW CONCRETE AREAS		EXISTING ASPHALT



njb ARCHITECTURE
A Professional Limited Company
GROVE PARK SQUARE
11537-B NUCKOLS ROAD
Glen Allen, Virginia 23059
Tel: (804) 273-9811 Fax: (804) 273-9843

Dewberry
Dewberry Engineers, Inc.
One Riverchase Drive, Suite 200
Chesapeake, Virginia 23060
Tel: 804-200-7000 Fax: 804-200-7009
www.dewberry.com

CITY OF RICHMOND
FOUR NEW DPW FACILITIES
COMMERCE AND HOPKINS ROAD

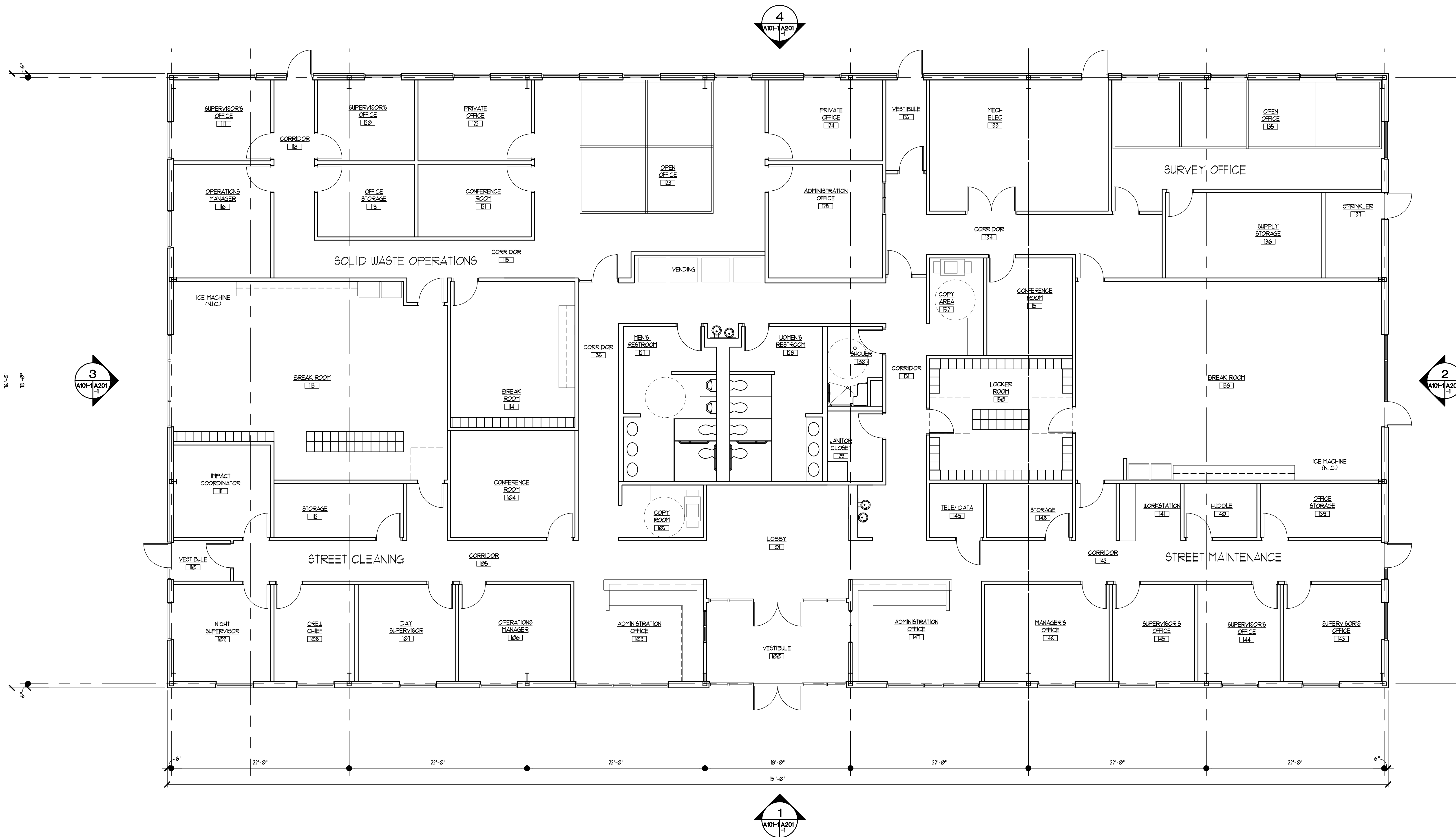
SITE + LANDSCAPING PLAN
COMMERCE ROAD

Date: MARCH 2015

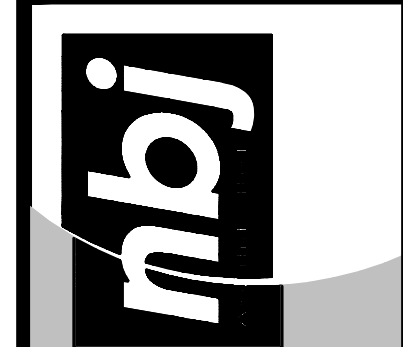
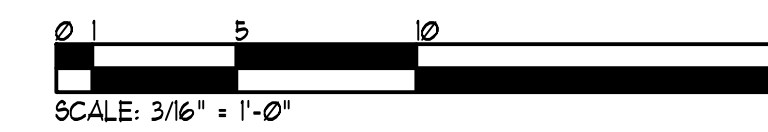
NO.	REVISIONS	DATE

Sheet **1A**
File Name: SITE & LANDSCAPING PLAN.DWG

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1 BUILDING 1 - FLOOR PLAN
 SCALE: 3/16" = 1'-0"



Date: MARCH 11, 2015

REVISIONS	
NO.	DATE

**SCHEMATIC
 DESIGN
 SUBMISSION**

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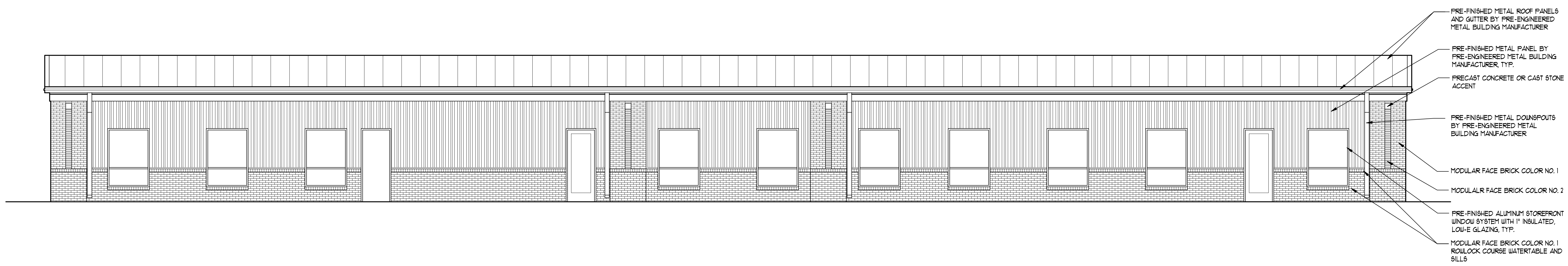


Date: MARCH 17, 2015

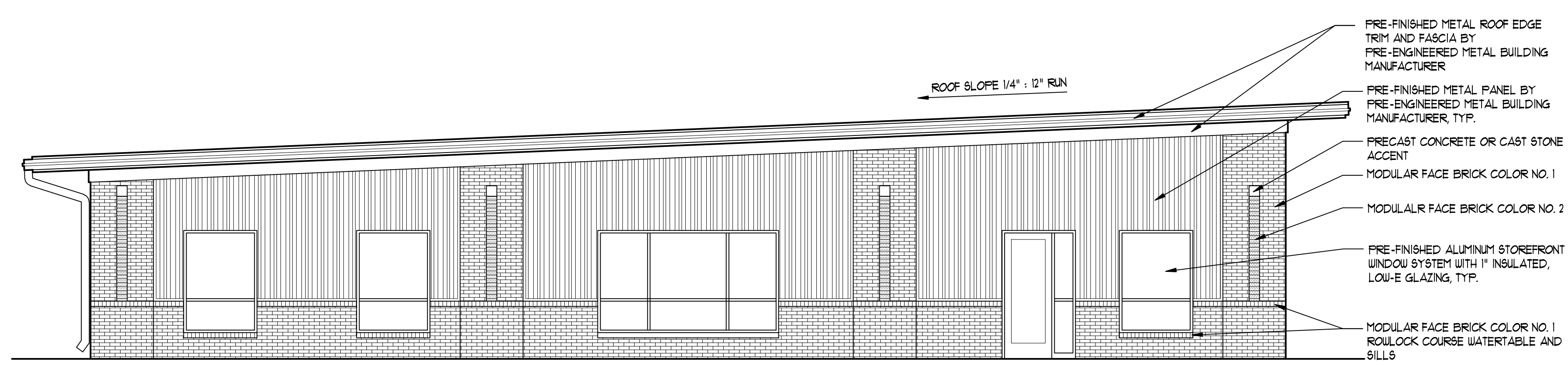
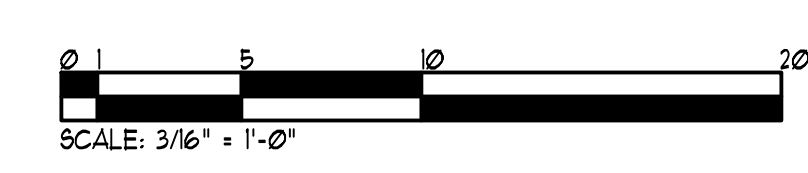
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NO.	DATE

**SCHEMATIC
 DESIGN
 SUBMISSION**

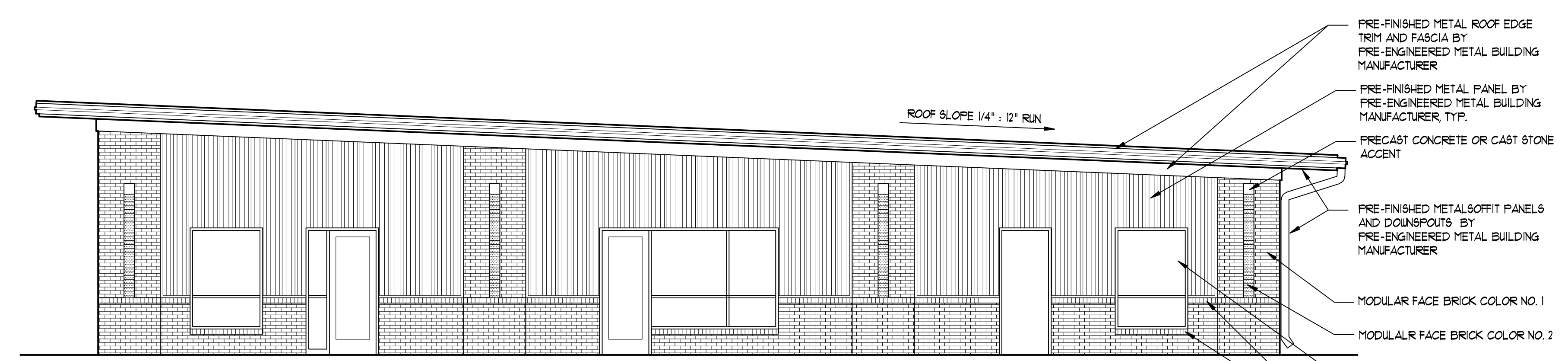
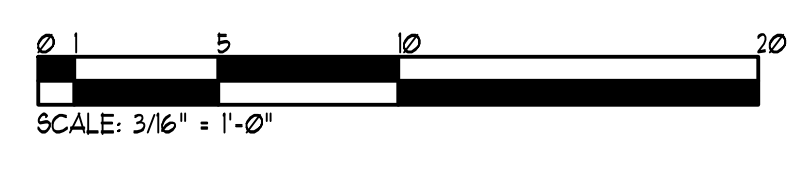
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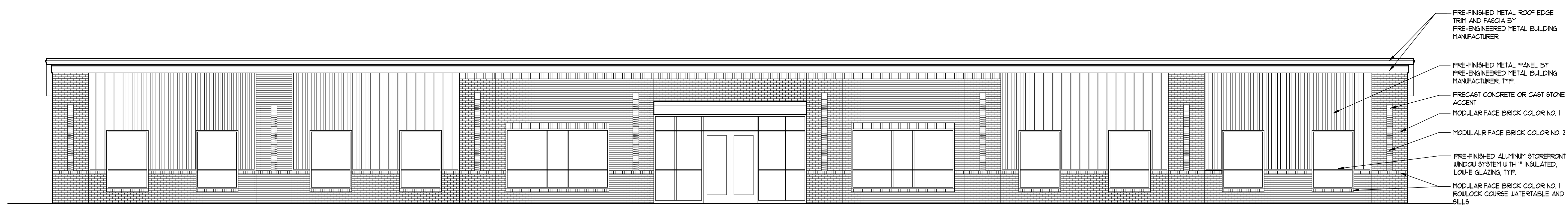
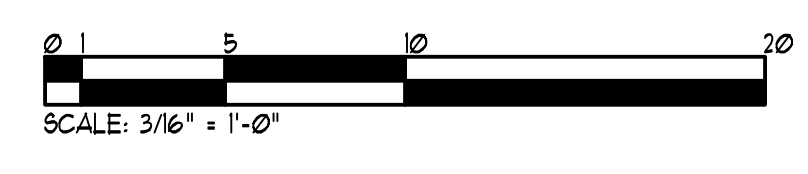
4 BUILDING 1 - EAST ELEVATION
 A101-A201 SCALE: 3/16" = 1'-0"



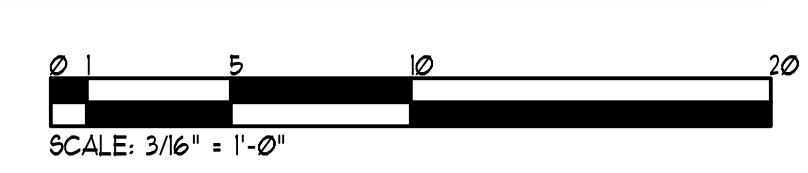
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 A101-A201 SCALE: 3/16" = 1'-0"



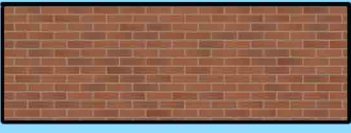
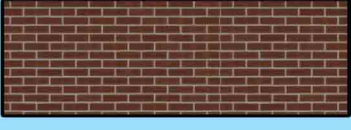

2 BUILDING 1 - SOUTH ELEVATION
 A101-A201 SCALE: 3/16" = 1'-0"



1 BUILDING 1 - WEST ELEVATION
 A101-A201 SCALE: 3/16" = 1'-0"





-  MODULAR FACE BRICK COLOR 1
-  MODULAR FACE BRICK COLOR 2
-  PRE-FINISHED METAL PANEL

SOUTH ELEVATION

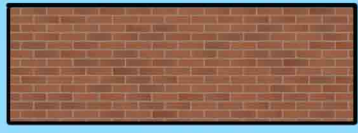




WEST ELEVATION

CITY OF RICHMOND
FOUR NEW DPW FACILITIES
COMMERCE AND HOPKINS ROAD
BUILDING - 1



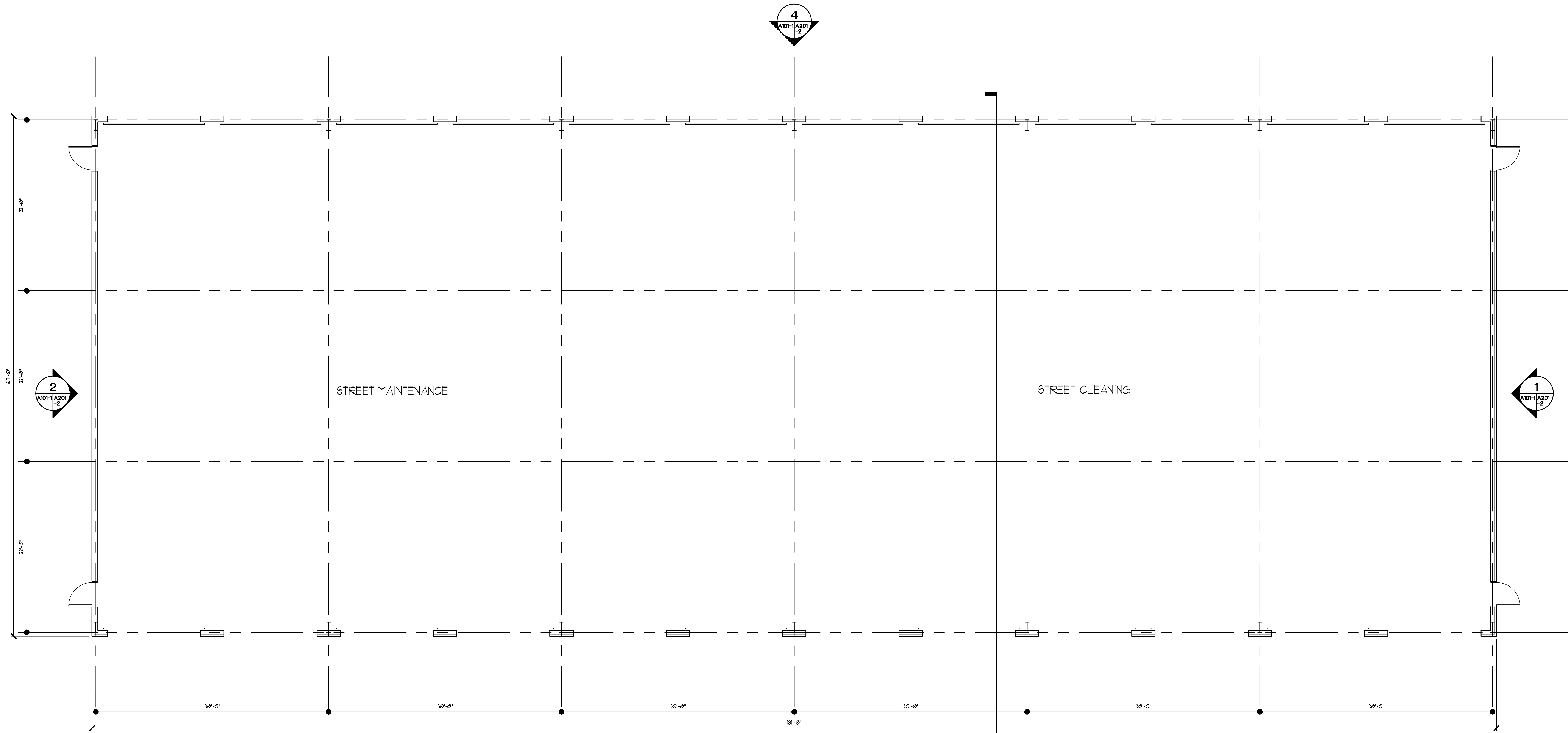
NORTH ELEVATION

-  MODULAR FACE BRICK COLOR 1
-  MODULAR FACE BRICK COLOR 2
-  PRE-FINISHED METAL PANEL

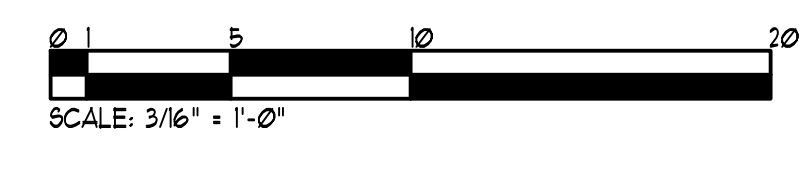


EAST ELEVATION

CITY OF RICHMOND
FOUR NEW DPW FACILITIES
COMMERCE AND HOPKINS ROAD
BUILDING - 1



1 BUILDING 2 - FLOOR PLAN
A101-2 SCALE: 3/16" = 1'-0"



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**CITY OF RICHMOND
 FOUR NEW DPW FACILITIES
 COMMERCE TWO
 RICHMOND, VA 23224
 PC: O-28651**

**BUILDING 2
 FLOOR PLAN**

Date: FEBRUARY 20, 2015

REVISIONS	
NO.	DATE

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 SUBMISSION**

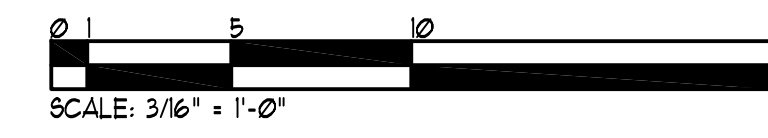
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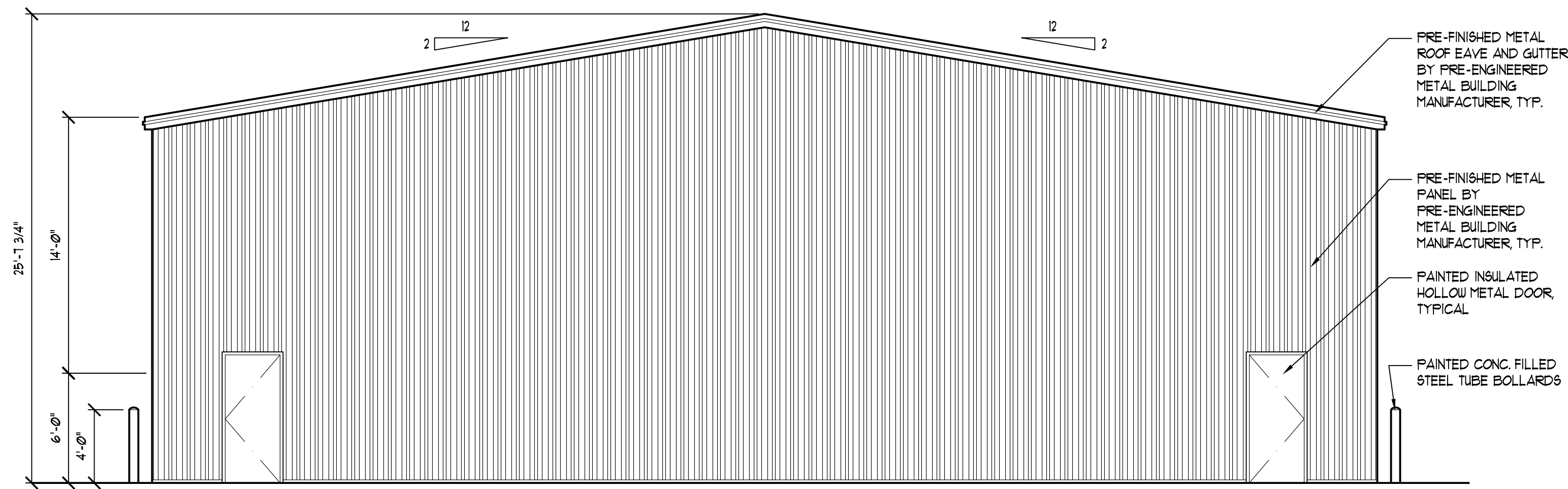
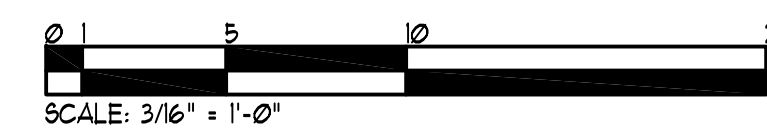
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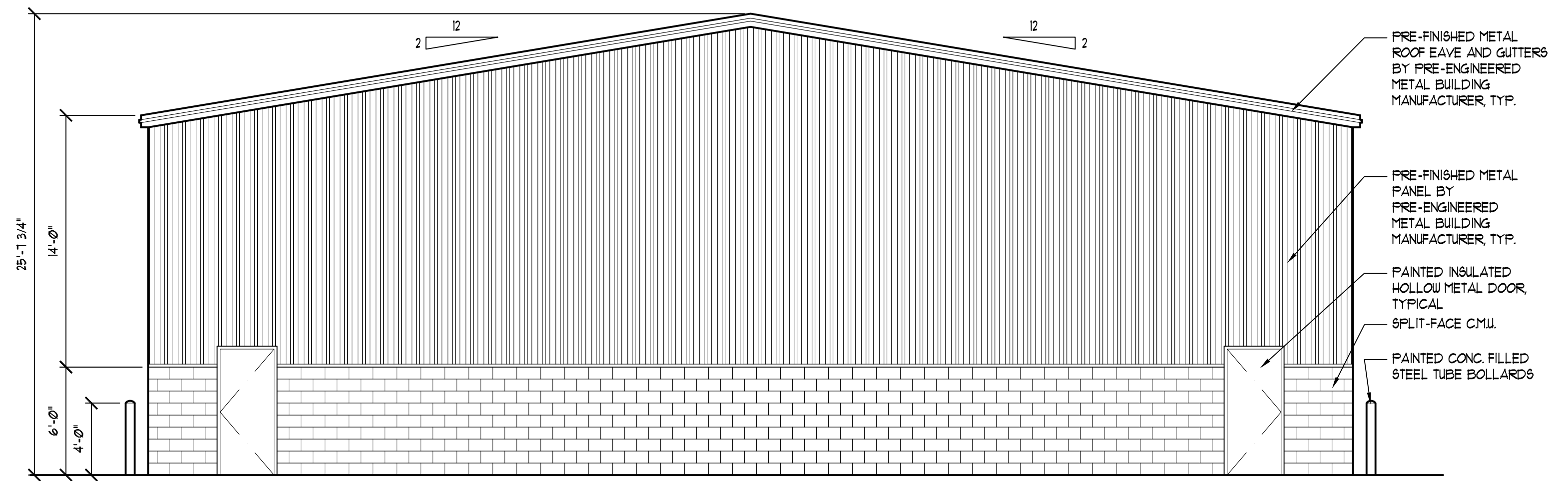
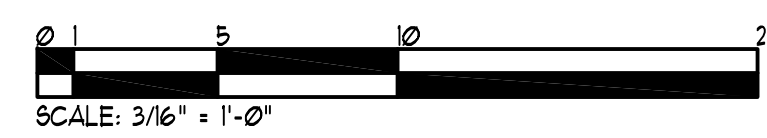
4 BUILDING 2 - SOUTH ELEVATION
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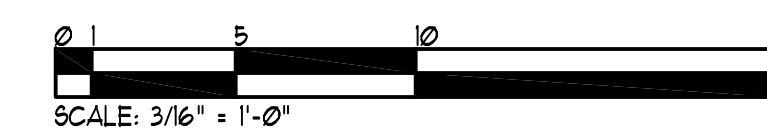
3 BUILDING 2 - NORTH ELEVATION
 SCALE: 3/16" = 1'-0"



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

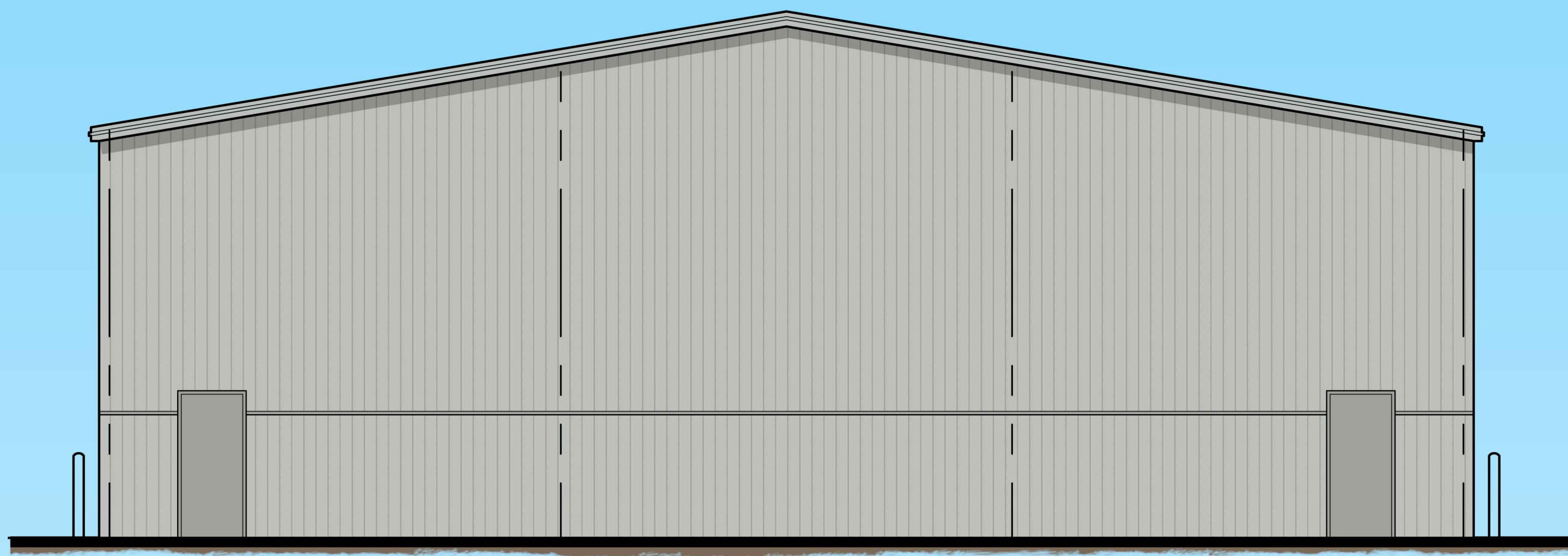


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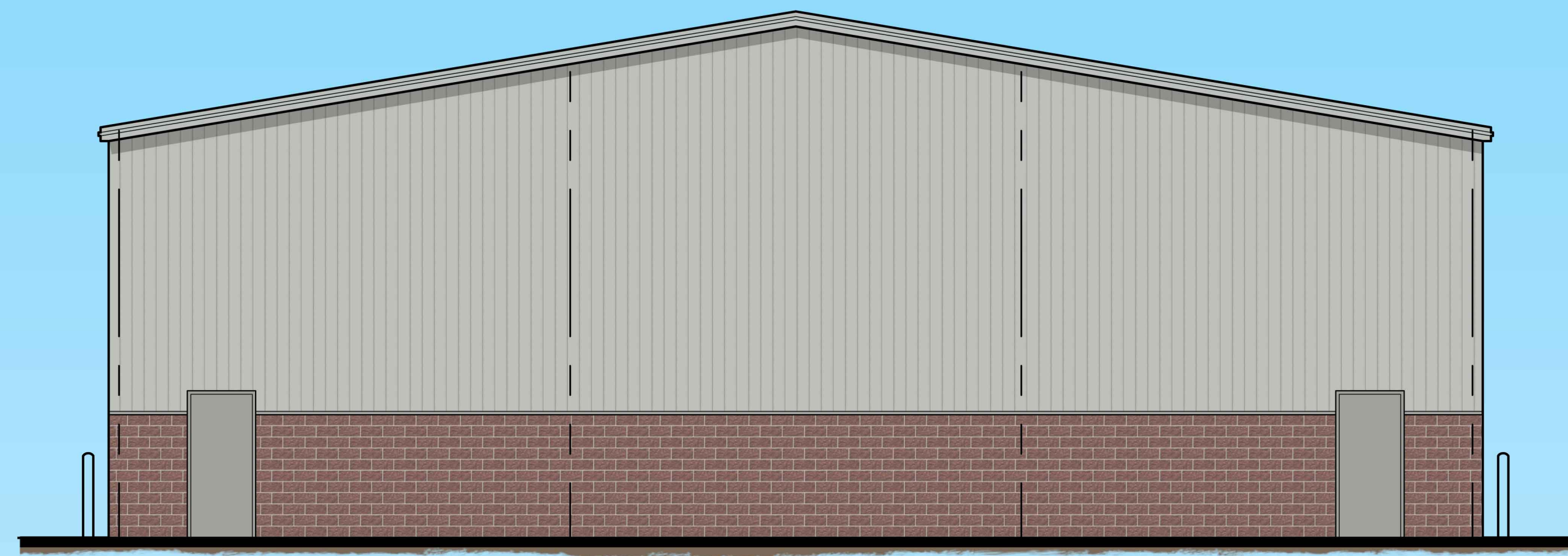


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REVISIONS	
NO.	DATE

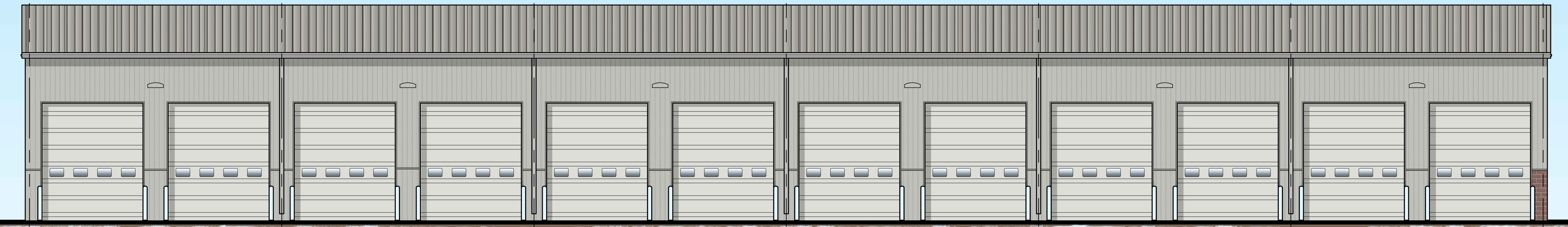
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EAST ELEVATION.



WEST ELEVATION.



NORTH AND SOUTH ELEVATION.

CITY OF RICHMOND
FOUR NEW DPW FACILITIES
COMMERCE AND HOPKINS ROAD
BUILDING - 2



TRP LED ARCHITECTURAL WALLPACK	Cat.#	
	Job	
	Approvals	

SPECIFICATIONS

Applications:

- Architectural wallpack in stylish Trapezoid shape with molded contours to accentuate building architecture. Provides excellent illumination in energy-saving LED systems.

Construction:

- Die-cast aluminum housing and door
- Seven powder coat standard finishes, plus custom color options

LED:

- 30 high power LEDs deliver up to 5,062 lumens
- Up to 105 lumens per watt
- Variety of IES distribution patterns - Type II, III, and IV (Forward Throw)
- 3000K - 80 CRI, 4000K - 70 CRI, and 5000K - 67 CRI, CCT nominal

Operating Temperature:

- 40°C/-40°F to 40°C/104°F for 350mA
- 30°C/-22°F to 40°C/104°F for 530mA

Electrical:

- Two driver options: 34w at 350mA (1 driver) and 53w at 525mA (1 driver)
- 120-277VAC, 50/60Hz
- Power factor ≥ 90%

Electrical (Cont.):

- THD (Total Harmonic Distortion) <20%
- 10 KA, 10 KV, 270 joules surge suppressor

Controls:

Drivers are 0-10V dimming standard. Photocell and occupancy sensor options available for complete on/off and dimming control.

Listings:

- UL1598 listed for use in wet locations
- 4K and 5K models meet DesignLights Consortium (DLC) qualifications, consult DLC website for more details: <http://www.designlights.org/QPL>
- Zero uplight (UO), dark sky, neighbor friendly
- Drivers IP66 and RoHS compliant

TRP-BBU Egress Wallpack:

Designed to meet strict 1fc minimum requirements. At 12ft mounting height 1fc covers 16x16ft area, well beyond the 10x10ft standard; No uplight, external test button; 120V or 277V only; Rated -20°C to 35°C

Warranty:

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

PRODUCT IMAGE(S)



TRP



TRP with Motion Sensor

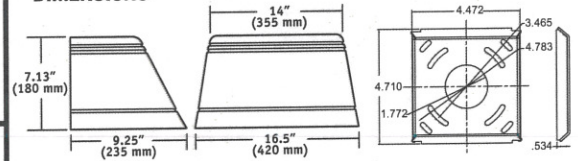


TRP with BBU

SHIPPING INFORMATION

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
TRP	16 (7.3)	18.5 (47)	9.5 (24)	11.5 (29)

DIMENSIONS



Weight:
13.2 lbs 5.98 kg

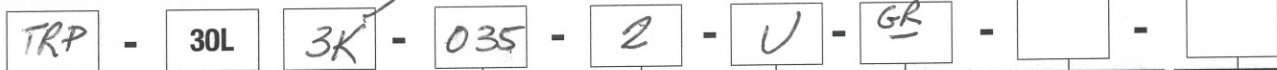
Mounting Plate
Dimensions

CERTIFICATIONS/LISTINGS



ORDERING INFORMATION

ORDERING EXAMPLE: TRP-30L5K-053-2-U-DB



FAMILY	# OF LEDS	CCT	DRIVE CURRENT	DISTRIBUTION	VOLTAGE	FINISH	CONTROL OPTIONS	OPTIONS
TRP Trapezoid	30L 30 High brightness LEDs	3K ⁴ 3000K 4K 4000K 5K 5000K	035 ⁵ 350mA 053 525mA	2 Type II 3 ⁶ Type III 4 Type IV	U 120V-277V 1 ^{1,6} 120V 2 ¹ 208V 3 ¹ 240V 4 ^{1,6} 277V	CC ³ Custom Color BL Black DB Bronze FG Forest Green GR Gray PS Platinum RD Red WH White	PC ¹ Photocell (Must specify individual voltage) SC0 ^{2,5} Motion sensor On/Off control, No light output when no motion detected SCP ^{2,5} Programmable motion control, factory default is 10% light output	BBU ^{1,6} Integral battery for 120 or 277V only rated for -20°C to 35°C (Must specify individual voltage) F ¹ Fusing (Must specify individual voltage)

¹ Must specify individual voltage for BBU, PC and Fusing options
² Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120V or 277V only
³ Consult factory for Custom Color option
⁴ DLC qualification 4K and 5K models only
⁵ PC option not applicable, included in sensor.
⁶ BBU only available in TRP, 350mA, Type III, 120V or 277V

ACCESSORIES - Order separately

Catalog Number	Description
SCP-REMOTE ²	Remote control for SCP option. Order at least one per project to program and control.



CIMARRON LED

Cat.#

Job

Type



Approvals

SPECIFICATIONS

Construction:

- Stylish vertically finned die-cast solid top housing for maximum heat dissipation; Stops collection of unsightly debris from gathering on top of the housing
- Rugged lower die-cast aluminum heat sink accelerates thermal management and optimizes PCB and optical performance
- Separate optical and electrical compartment for optimum component operation
- One piece die cut silicone gasket ensures weather proof seal around each individual LED for IP65 rating
- Backlight Control (BC) option available for 85% spill light reduction, doesn't change fixture appearance or EPA, recommended for Type III and Type IV distributions
- Stamped bezel provides mechanical compression to seal the optical assembly
- Complements the Hubbell Southwest series of outdoor fixtures
- Weight - 45.0 pounds, EPA - 1.3 ft²
- Suitable for applications requiring 3G testing prescribed by ANSI C136.31

Optics:

- Choice of 72 high brightness LED configurations with individual acrylic lenses specially designed for IES Type II, III, IV and V distributions
- Auto optics designed for front row 1A and interior rows 2A (see distribution under ordering and page 2)
- CCT: 3000K (80 CRI), 4000K (70 CRI), 5100K (67 CRI), and turtle friendly Amber LED options
- CRI: 70

Electrical:

- Universal input voltage 120-277 VAC, 50/60 Hz
- Integral step-down transformer for 347V & 480V
- Ambient operating temperature -40° C to 40° C
- Automatic thermal self-protection
- Drivers have greater than 90% power factor and less than 10% THD
- Optional continuous dimming to 10% or dual circuitry available

- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- 1050 mA driver available with 90L configuration for increased lumen output
- LED electrical assembly, including PR devices, consumes no power in the 'off' state
- Field replaceable surge protection device provides 20KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3. The SPD is designed with a clamping voltage of 1600V at 20KA using industry standard 8/20µs waveform.

Controls:

- Drivers are 0-10V dimming standard. Photocell and occupancy sensors available for complete on/off and dimming control

Lumen maintenance:

- L90 at 60,000 hours (Projected per IESNA TM-21-11)

Installation:

- Two die-cast aluminum arm designs: The decorative arm offers a sleek upswept look while the straight arm follows the housing's contoured lines for continuity of style
- Fixture ships with arm installed for ease of installation and mounts to #2 drill pattern
- Wall bracket, mast arm fitter and pole accessories are also available allowing easy mounting for virtually any application

Finish:

- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

Warranty:

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

Listings:

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
- Models meet DesignLights Consortium (DLC) qualifications, consult DLC website for more details: <http://www.designlights.org/QPL>
- IDA approved • IP65

PRODUCT IMAGE(S)



90 LED 3/4 VIEW



30 LED

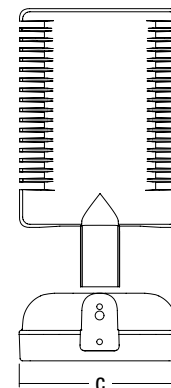
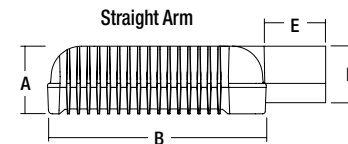
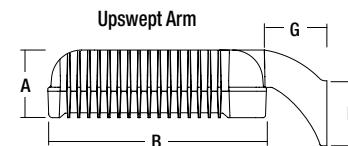


60 LED



90 LED

DIMENSIONS



A	B	C	D	E	F	G
6 3/4"	21 3/4"	16"	6 5/8"	6 5/16"	5 5/8"	6 1/8"
171mm	552mm	406mm	168mm	160mm	143mm	155mm

CERTIFICATIONS/LISTINGS



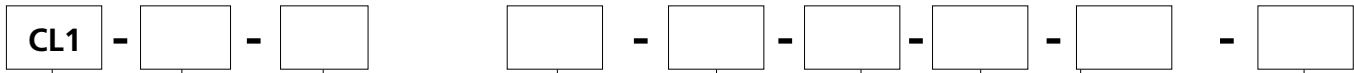
ORDERING INFORMATION SEE NEXT PAGE



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ORDERING INFORMATION ORDERING EXAMPLE: CL1-A-90LU-5K-3-DB-RPA3



SERIES	NO. OF LEDs	VOLTAGE	CCT	DRIVE CURRENT	OPTIONS
CL1 Cimarron LED	90L 90 High brightness LEDs 60L 60 High brightness LEDs 30L 30 High brightness LEDs	U³ Universal 120V-277V, 50/60 Hz 1 120V 2 208V 3 240V 4 277V 5 480V, 60 Hz F 347V, 60 Hz E⁴ 220V, 50 Hz	3K 3000K 4K 4000K 5K 5100K AM⁷ Amber (590 nm available for "Turtle Friendly" applications (consult factory))	Leave blank for 700mA (standard) 035 350mA Amber CCT only 105 1050 mA (use with 90L only for higher lumen output)	BC⁶ Backlight control BL^{1,2,5} Bi-level control CD² Continuous dimming WB Wall bracket RPA3 3" Round pole adapter RPA4 4" Round pole adapter RPA5 5" Round pole adapter RPA6 6" Round pole adapter F(X)^{3,4} Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V) SSB Stainless steel LED bezel VG Vandal guard

MOUNTING

- A** Arm mount construction (6" straight rigid arm included & acceptable for 90° configurations)
- AD** Decorative arm mount const. (6" decorative upswept arm incl. & acceptable for 90° configurations)
- MAF** Mast arm fitter for mounting to standard 2 3/8" mast arm bracket, includes 6" straight rigid arm

DISTRIBUTION

- 2** Type II
- 3** Type III
- 4** Type IV
- 5M** Type V Medium
- 5S** Type V Short
- 5W** Type V Wide
- 2L** Type II Rotated 90° left
- 3L** Type III Rotated 90° left
- 4L** Type IV Rotated 90° left
- 2R** Type II Rotated 90° right
- 3R** Type III Rotated 90° right
- 4R** Type IV Rotated 90° right
- 1A** Auto Front Row Type I
- 1AR** Auto Front Row Type I Rotated 90° right
- 1AL** Auto Front Row Type I Rotated 90° left
- 2A** Auto Front Row Type II
- 2AR** Auto Front Row Type II Rotated 90° right
- 2AL** Auto Front Row Type II Rotated 90° left

COLOR

- DB** Dark Bronze
- BL** Black
- WH** White
- GR** Gray
- PS** Platinum Silver
- RD** Red (premium color)
- FG** Forest Green (premium color)
- CC** Custom Color

CONTROL OPTIONS

- SCPW** Wide Lens
- WIR** WiSCAPE
- WIRPC** WiSCAPE motion control
- TCM** TOTUS control module
- SCP^{8,9}** Programmable motion control, factory default is 10%
[Controls Guide](#)
- PR(X)⁵** NEMA Photo cell receptacle (replace X with voltage: U=120-277, 5=480, 6 =347)

Notes: 1- For BL option 90L and 60L; N/A 347V & 480V
 2 - BL & CD cannot be combined
 3 - Fuse option not available with universal voltage
 4 - Select F3 fusing option for 220V
 5 - Photocell receptacle not available with BL option
 6 - Recommended for Type III and IV distributions only
 7 - Available in 350mA drive current only Type IV, 5M
 8 - 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings; must order minimum of one remote control to program dimming settings (see accessories)
 9 - 120V/277V/347V/480V only

ENERGY SAVING DATA

ENERGY DATA		INPUT WATTS		LUMENS DELIVERED						DRIVERS CURRENT
Power Factor	>.9	120V-277V	347V-480V	TYPE 2	TYPE 3	TYPE 4	TYPE 5M	TYPE 5S	TYPE 5W	CURRENT
Total Harmonic Distortion	<10%									
30L-5K	70	87	6384	6164	6641	7108	6999	6619	2@700mA	
60L-5K	140	157	13300	12842	13125	13185	13675	12954	4@700mA	
90L-5K	210	227	19684	19006	19202	20592	19610	18973	6@700mA	
90L-5K-105	336	363	26974	25351	26548	25793	27445	25195	6@1050mA	
30L-4K	70	87	6089	6109	6104	6417	6439	6046	2@700mA	
60L-4K	140	157	11583	11468	12036	12038	12581	11807	4@700mA	
90L-4K	210	227	17143	16973	17648	18521	20220	17394	6@700mA	
90L-4K-105	336	363	23896	23912	24199	24583	25357	23128	6@1050mA	
30L-3K	70	87	4606	4668	4686	4858	4902	4601	2@700mA	
60L-3K	140	157	9013	9175	9216	9409	9461	8844	4@700mA	
90L-3K	210	227	13360	13601	13575	13923	14004	13902	6@700mA	
90L-3K-105	336	363	17645	17612	17469	17950	18271	17330	6@1050mA	

AUTOMOTIVE DEALERSHIP OPTICS

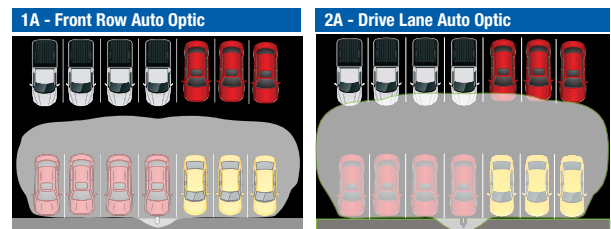
For Automotive Dealership applications Spaulding Lighting has developed two optics designed for enhanced and proper lighting of the auto dealership merchandise and the front row 1A and interior rows 2A (See CL1 distribution information for details)

Optic 1A

- Maximum illumination on front row display
- Maximum pole spacing

Optic 2A

- Excellent front row illumination and drive lane
- Optimal uniformity for drive lane and interior rows



ACCESSORIES SEE NEXT PAGE



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ACCESSORIES

Catalog Number	Description
SCP-REMOTE ⁹	Remote control for SCP option. Order at least one per project to program and control.

Catalog Number	Description
CR-RPA3-XX ¹	Round pole adapter for straight arm (3¼ - 3¾")
CR-RPA4-XX ¹	Round pole adapter for straight arm (3⅞ - 4½")
CR-RPA5-XX ¹	Round pole adapter for straight arm (5")
CR-RPA6-XX ¹	Round pole adapter for straight arm (6")
CRD-RPA2-XX ¹	Round pole adapter for upswept arm (2¾ - 3⅝")
CRD-RPA3-XX ¹	Round pole adapter for upswept arm (3¼ - 3¾")
CRD-RPA4-XX ¹	Round pole adapter for upswept arm (3⅞ - 4½")
CRD-RPA5-XX ¹	Round pole adapter for upswept arm (5")
CRD-RPA6-XX ¹	Round pole adapter for upswept arm (6")
WB-CR-XX ¹	Wall bracket
TPLB-XX ¹	Twin parallel luminaire bracket
MAF-CL-XX ³	Horizontal mast arm fitter for 2 3/8" OD arm. Mounts to standard 6" arm (ordered with fixture)

1 Replace XX with color choice, eg.: DB for Dark Bronze

2 When ordering poles, specify Pole Drill Pattern #2

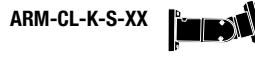
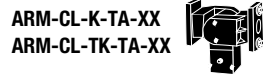
3 Fixture must include standard 6" arm

MOUNTING ACCESSORIES

Catalog Number	Description
ARM-CL-K-TA-XX ¹	Adjustable mounting arm for single fixture (2-3/8 tenon) – 5 lbs. 2.3 kgs.
ARM-CL-TK-TA-XX ¹	Adjustable mounting arm for two fixtures at 180° (2-3/8 tenon) – 7 lbs. 3.2 kgs.
ARM-CL-K-S-XX ¹	10" adjustable arm – .5 lbs. .05 kgs. – 5.75 lbs. 2.6 kgs.

1 Replace XX with color choice, eg.: DB for Dark Bronze

2 Fixture must include standard 6" straight arm



TENON TOP POLE BRACKET ACCESSORIES

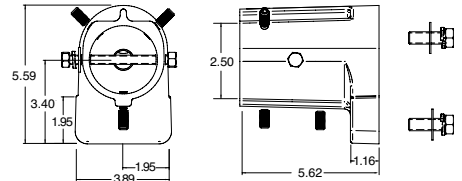
(2 3/8" OD tenon) (RSS version requires 4" round pole adapter)

Catalog Number	Description
SETA-XX ¹	Square pole tenon adapter (4 at 90 degrees)
RETA-XX ¹	Round pole tenon adapter (4 at 90 degrees)
TETA-XX ¹	Hexagonal pole tenon adapter (3 at 120 degrees)

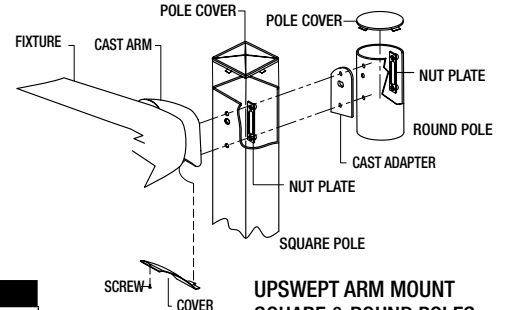
1 Replace XX with color choice, eg.: DB for Dark Bronze

PHOTOCONTROL EQUIPMENT

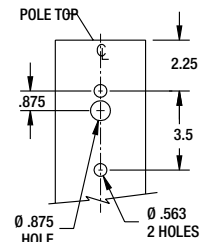
Catalog Number	Description
PTL-1	Photocontrol - twist-lock cell (120V)
PTL-8	Photocontrol - twist-lock cell (120-277V)
PTL-5	Photocontrol - twist-lock cell (480V)
PTL-6	Photocontrol - twist-lock cell (347V)
PSC	Shorting cap - twist-lock



MAF – HORIZONTAL MAST ARM FITTER



UPSWEPT ARM MOUNT SQUARE & ROUND POLES



#2 DRILL PATTERN FOR POLES

LIGHTING FACTS

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **6270**
Watts **68.4**
Lumens per Watt (Efficacy) **91**

Color Accuracy
Color Rendering Index (CRI) **74**

Light Color
Correlated Color Temperature (CCT) **4021 (Bright White)**

Warranty** **Yes**

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.

Registration Number: A29K-22276D (11/2/2012)
Model Number: CL1-A-303-5-4-3
Type: Outdoor area/roadway fixture

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **6892**
Watts **69.7**
Lumens per Watt (Efficacy) **98**

Color Accuracy
Color Rendering Index (CRI) **68**

Light Color
Correlated Color Temperature (CCT) **5008 (Daylight)**

Warranty** **Yes**

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.

Registration Number: A29K-112043 (11/2/2012)
Model Number: CL1-A-303-5-4-3
Type: Outdoor area/roadway fixture

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **15056**
Watts **208.8**
Lumens per Watt (Efficacy) **72**

Color Accuracy
Color Rendering Index (CRI) **76**

Light Color
Correlated Color Temperature (CCT) **5433 (Daylight)**

Warranty** **Yes**

All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: A29K-189H5J (11/2/2011)
Model Number: CL1-A0-90L-1-4K-3
Type: Outdoor area/roadway fixture

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **22898**
Watts **339.5**
Lumens per Watt (Efficacy) **67**

Color Accuracy
Color Rendering Index (CRI) **75**

Light Color
Correlated Color Temperature (CCT) **4102 (Bright White)**

Warranty** **Yes**

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.

Registration Number: A29K-47EAXX (11/2/2012)
Model Number: CL1-A-90L-4K-2-105
Type: Outdoor area/roadway fixture



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**Job Name:**1801 Commerce Rd - City of Richmond DPU
Stormwater Division**Catalog Number:**

SNS-25-40-11-AB-PC(XX)-DM19

Notes:

Type:**SGL POLE**

LV - CENTRAL14-15625

Square Non-Tapered Steel Pole Specification

Pole Shaft

The pole shaft shall be fabricated from weldable grade carbon steel structural tubing which has uniform wall thickness of 11 gauge (.1196"), 7 gauge (.1793"), or 3 gauge (.2391"). The pole shaft material shall conform to ASTM A-500 Grade B with minimum yield strength of 46,000 psi. Each section is one-piece construction with a full-length longitudinal weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate

The base plate is fabricated from a structural quality hot rolled carbon steel plate that meets or exceeds ASTM A-36 with a minimum yield strength of 36,000 psi. The base plate telescopes the pole shaft and is circumferential welded top and bottom. The base plate has slotted bolt holes for a 1/2" variation in the anchor bolt setting.

Hand Hole

An oval reinforced hand hole, having a nominal 3" x 5" X .237" wall, will be installed 18" above the base plate. A hand hole cover and attaching hardware is included with each hand hole assembly. A ground lug will be welded inside the pole opposite the hand hole. The 3" x 5" hand hole and ground lug comes standard on all poles unless otherwise specified.

Anchor Bolts

Anchor bolts are fabricated from a commercial quality hot rolled carbon steel bar that meets or exceeds minimum yield strength of 55,000 psi. Anchor bolts are sized according to each pole design and are furnished with 2 galvanized hex nuts and 2 galvanized flat washers. Anchor bolts for galvanized steel poles shall have 4" minimum galvanized on the threaded end to ASTM A-153. Prime finish poles are normally furnished with non-galvanized anchor bolts unless otherwise specified. Anchor bolts will ship with the poles unless otherwise noted.

Pole Top

Each pole assembly is provided with either a 2-3/8" O.D. x 5" tenon (other size tenons are available) or a removable pole cap. The pole top assembly will be determined by the type of brackets and/or fixtures to be supplied on each pole.

Design

The selection of the correct pole design is predicated on the specific loading requirements of each application. The poles located in the steel pole chart are designed to withstand dead loads and theoretical dynamic loads developed by sustained winds of 80 MPH through 100 MPH times the 1.3 gust factor. Effective Projected Area (EPA) is the actual adjusted projected area of the fixtures and mounting equipment taking into account the appropriate shape factor to result in an area having a coefficient of drag equal to unity (1.0). The combined EPA and the weight of the luminaire, light support brackets, platforms and any other attachments cannot exceed the rated EPA or allowable weight on that pole.

Welding

All welds shall be of the highest quality and performed by American Welding Society certified welders.

Finish

All poles, mounting brackets and platforms are furnished with a coating of red oxide/zinc primer, factory painted, or hot dipped galvanized to ASTM A-123 as specified. Miscellaneous hardware will be galvanized to ASTM A-153. Exterior finish coatings are available by special request.





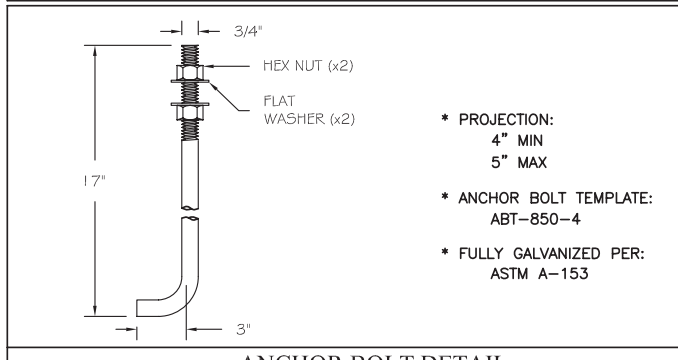
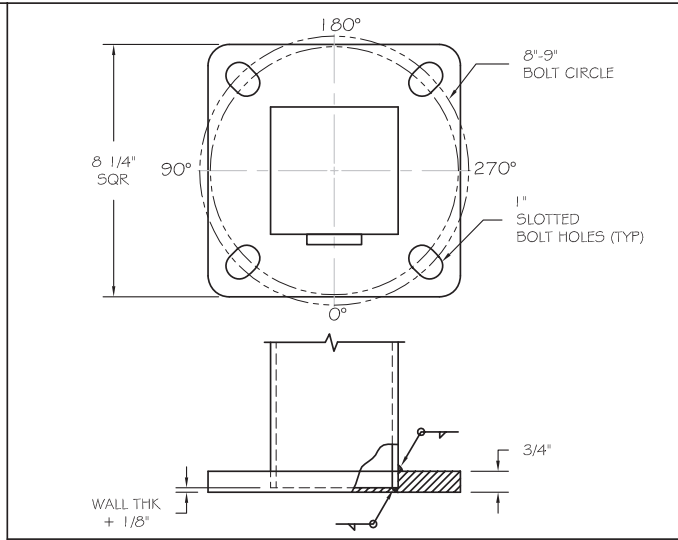
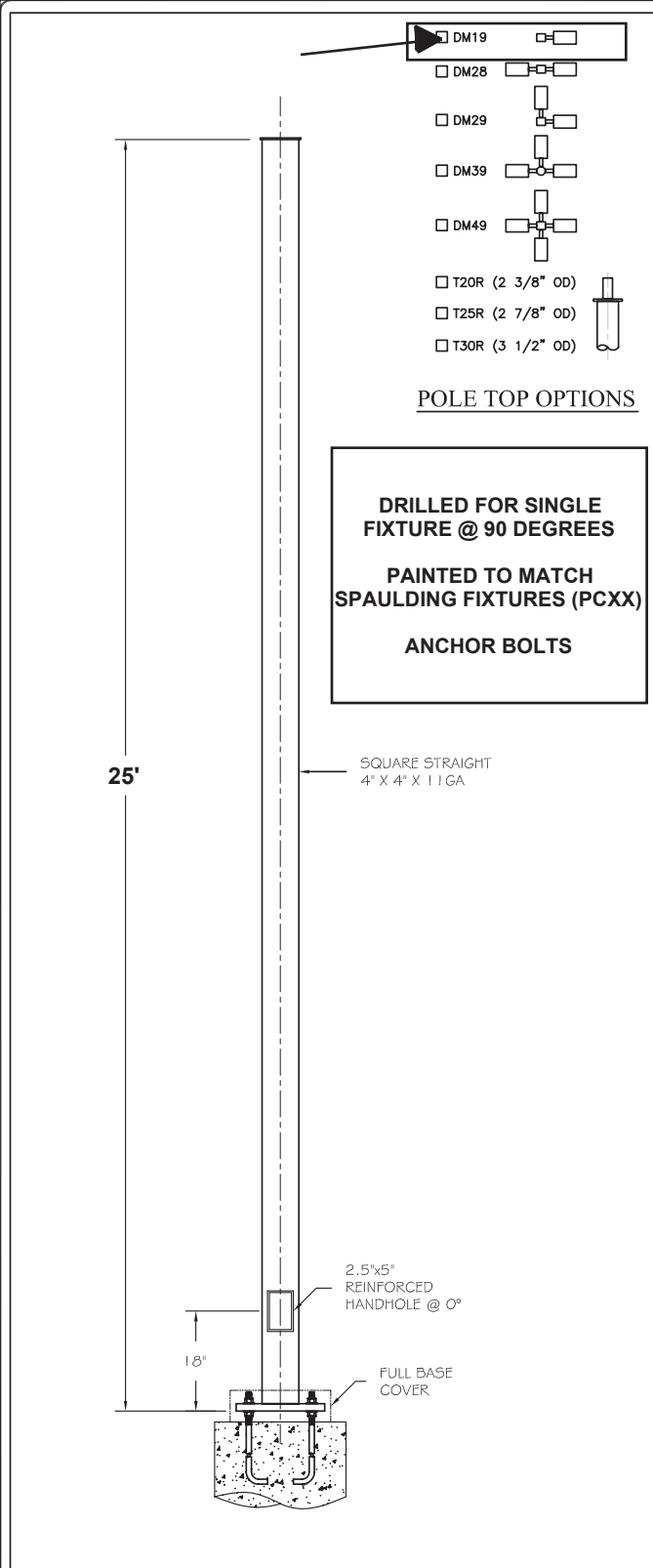
Job Name:
1801 Commerce Rd - City of Richmond DPU
Stormwater Division

Catalog Number:
SNS-25-40-11-AB-PC(XX)-DM19

Type:
SGL POLE

Notes:

LV - CENTRAL14-15625



WIND (MPH)	80	90	100		
EPA	4.8	2.6	1.0		
WEIGHT	150	100	50		

LOADING CHART

COMPONENT	SPECIFICATION
POLE SHAFT	ASTM A-500 GRADE C
BASE PLATE	ASTM A-36
ANCHOR BOLTS	ASTM F-1554 GRADE 55
MISC. STEEL	ASTM A-36

SPECIFICATIONS

1. ALL HARWARE TO BE GALVANIZED TO ASTM A153.
2. POLE ASSEMBLY TO BE PAINTED OR GALVANIZED .
3. ALL WELDING TO CONFORM TO AWS D1.1 MOST RECENT EDITION.
4. POLE DESIGN IS BASED AGAINST COMMERCIAL GRADE STANDARDS.
5. DESIGN WIND SPEEDS IN LOADING CHART INCLUDE 1.3 GUST FACTOR.
6. POLES SHOULD BE MONITORED FREQUENTLY FOR SIGNS OF HARMONIC VIBRATION, WHICH WILL CAUSE STRUCTURAL FATIGUE. CONSULT FACTORY FOR A DAMPING DEVICE THAT CAN HELP MINIMIZE THE EFFECTS OF VIBRATION.

GENERAL NOTES

POLE MARK (FOR APPROVAL)

TYPE: _____ BY: _____ DATE: _____

	AMERICAN LITE POLE 2800 S. HULEN, SUITE 200 FORT WORTH, TX 76109 817-924-3682 PH. 817-924-7049 FAX	REV. DATE BY REVISION DESCRIPTION PROJECT NAME:	SCALE: NONE DATE: 08/06/07 DWG BY: BM
	** CONFIDENTIAL ** THE INFORMATION CONTAINED IN THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL. UNAUTHORIZED DUPLICATION OR DISSEMINATION OF THIS DOCUMENT IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN NOTICE FROM AMERICAN LITE POLE.	DESCRIPTION: SQUARE STRAIGHT STEEL 25' X 4" X 11 GA	PO NUMBER: _____ QTY: _____ CHKD BY: CKR