

To: Development and Sustainability
Department, City of Mesa

From: Brad Vokes

Subject: Design Review Narrative
SuperStar Express Carwash

Date: February 2, 2016

NARRATIVE

This application is made to identify the development requirements for the new +/-4,931 square foot 'SuperStar Car Wash' located south of the southeast corner of Southern Avenue and Crismon Road. The site is approximately 45,000 S.F. (+/-1.033 acres) and will be located directly south of the new Burger King project. The current APN is 220-81-745. The project will provide complete site and building improvements.

On September 9, 2015, we met informally with the planner on call and the following entitlement process's were discussed;

- Pre-Submittal Application
- Site Plan Modification
- Use Permit Application (automobile/vehicle washing)
- Land Split and/or Subdivision Plat
- Engineering and Building Permits

Zoning, Use and Conformance:





This site is zoned LC (limited commercial) with no proposed zoning change. The lot is a part of the overall +/- 127,824 S.F. lot (APN #220-81-745) and will be parceled into the lot size as noted above. The project meets the required setbacks for coverage, parking and access.

Vehicular Access and Parking:

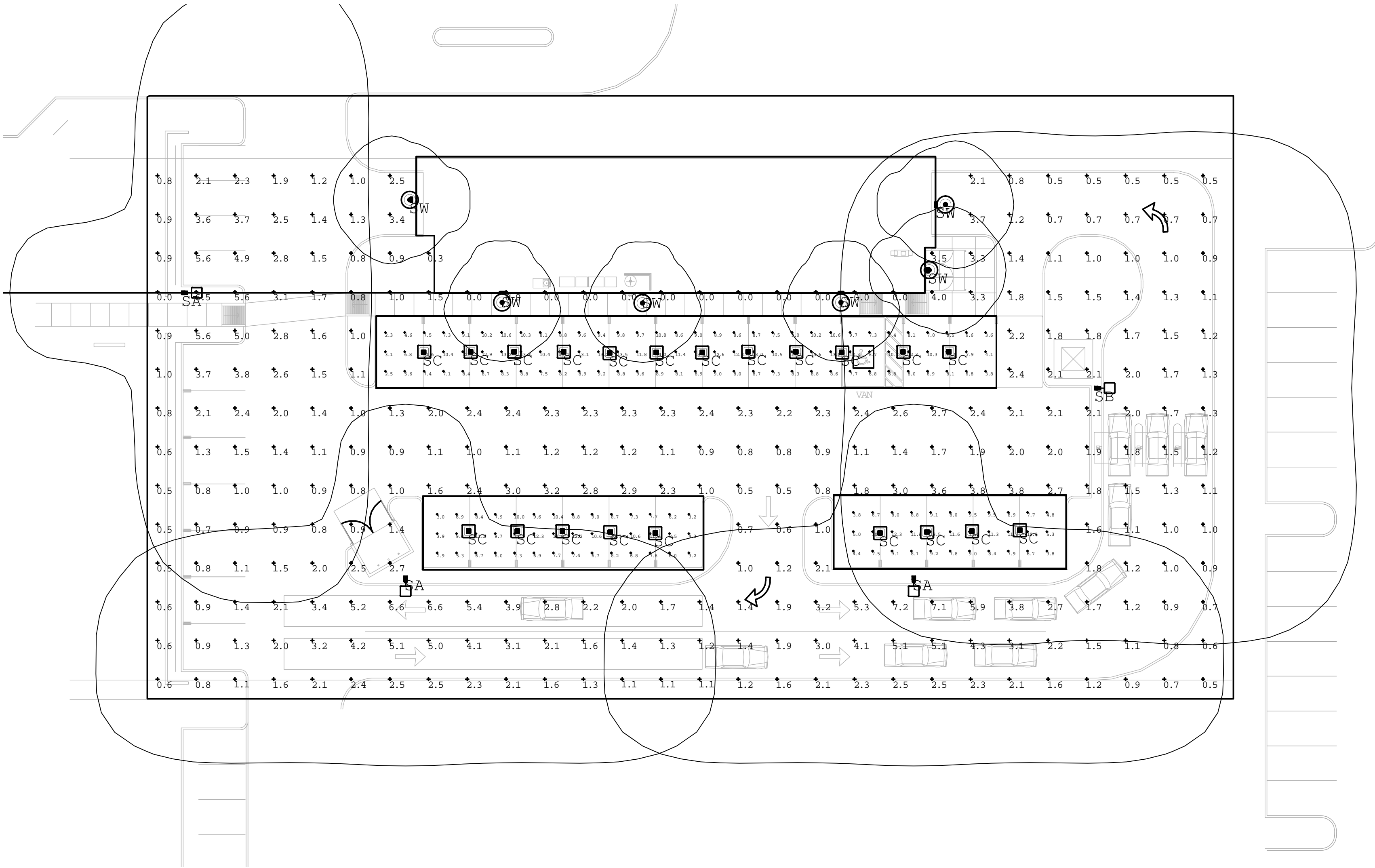
The project will utilize existing shared drives (Burger King) and shared access with no additional drives proposed. The number of parking spaces are provided to meet both ordinance and operational requirements for this use. Fire Truck and Refuse maneuvering and access are provided per City of Mesa standards.

Landscape, R.O.W. and Offsite Improvements, Easements:

The site is designed to utilize the existing shared drive access points and circulation within the overall development. All R.O.W. dedications and offsite improvements are

Luminaire Schedule								
Label	Symbol	[MANUFAC]	MTG HGT	Description	LLF	Lum. Lumens	Lum. Watts	Qty
SA		HUBBELL OUTDOOR	25'	ASL-24L-4K-210-3	0.900	16365	180.8	3
SB		HUBBELL OUTDOOR	25	ASL-24L-4K-210-5	0.900	16510	181.2	1
SC		DECO LIGHTING	9.75'	D534-LED-39	0.982	2491	35.4	21
SW		DECO LIGHTING	10' - 12'	D441-LED-30	0.900	1135	36	6

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Canopy 1	Illuminance	Fc	9.17	14.0	2.3	3.99	6.09
Canopy 2	Illuminance	Fc	8.05	12.7	2.9	2.78	4.38
Canopy 3	Illuminance	Fc	8.62	13.5	3.8	2.27	3.55
Site	Illuminance	Fc	1.87	7.2	0.0	N.A.	N.A.

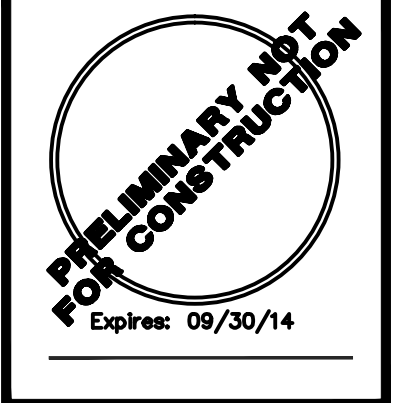


KEYED NOTES

① A

GENERAL NOTES - SITE

1. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
2. ELECTRICAL CONTRACTOR SHALL CONTACT TELEPHONE COMPANY REGARDING EXACT LOCATION OF ALL PRIMARY SERVICE EQUIPMENT, TRENCH LOCATION, ETC.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE TRENCHING, BACKFILL, AND CONDUIT STUBS INTO TRENCH AS REQUIRED BY TELEPHONE COMPANY AND TO THEIR SPECIFICATIONS.
4. ALL WIRING FOR OUTSIDE LIGHTING SHALL BE A MINIMUM OF #10 COPPER WITH TYPE THWN INSULATION. RUN UNDERGROUND CIRCUITS IN P.V.C. AND PROVIDE A #10 COPPER BOND IN ADDITION TO CIRCUIT CONDUCTORS. UNDERGROUND WIRING SHALL COMPLY WITH APPLICABLE CODES OF THE NEC.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY SECONDARY CONDUCTORS, POWER TRENCHING, BACKFILL AND CONCRETE PADS FOR TRANSFORMERS AND SERVICE EQUIPMENT. ADDITIONALLY PROVIDE CONDUIT STUBS INTO TRENCH PER POWER COMPANY SPECIFICATIONS AND REQUIREMENTS.
6. ALL WIRING SHALL BE COPPER. WIRING #4 AWG AND LARGER SHALL BE XHHW TYPE INSULATION.



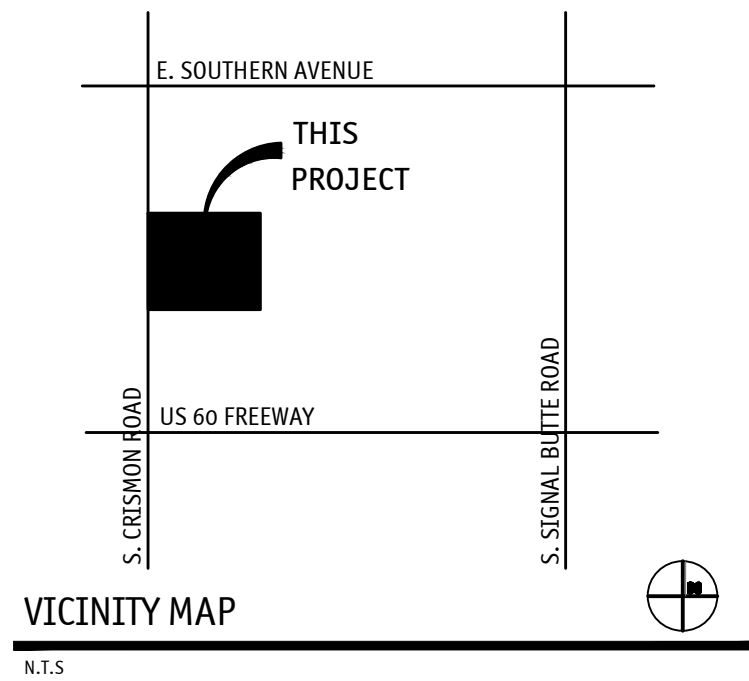
SUPERSTAR
EXPRESS
CARWASH

SEC CRISMON RD
& SOUTHERN AVE
MESA
ARIZONA

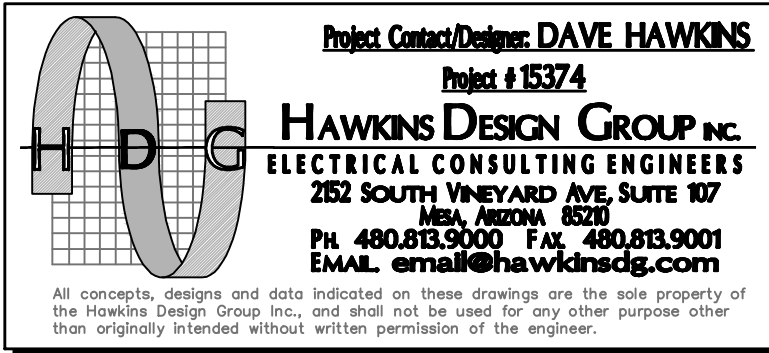
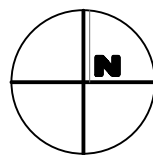
DATE

PRE-APP SUBMITTAL
11-02-2015

REVISED SITE PLAN
11-25-2015



ELECTRICAL SITE PLAN



Project: SCW

ES1.0



6" LED Downlight LC6LED

120 or 277V
0-10V Dimming Option

APPLICATIONS:

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

HOUSING:

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

REFLECTOR:

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

LED LIGHT ENGINE:

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

LED DRIVER:

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

DIMMING:

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

INSTALLATION:

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

CERTIFICATIONS:

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

WARRANTY:

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

DATE: TYPE:

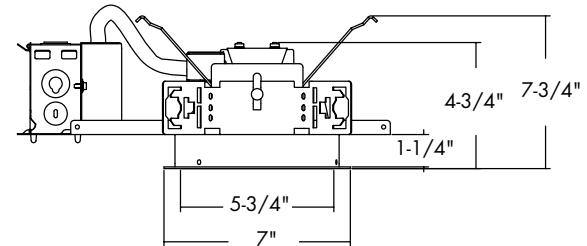
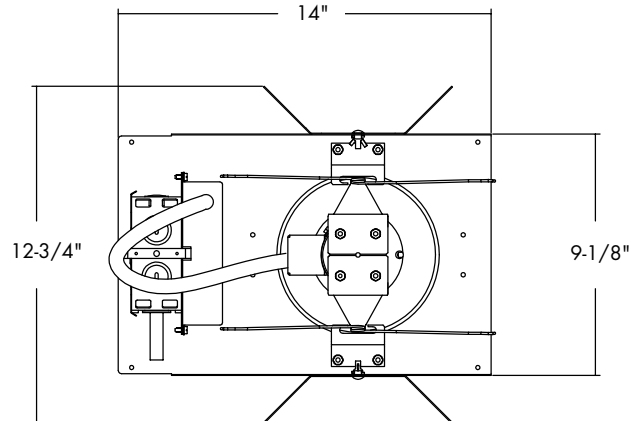
FIRM NAME:

PROJECT:

LiteFrame®



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



6LCLED 5 & 6

*See page 4 for 6LCLED 7 line art

*See page 4 for 6LCLEDEM line art

Order housing, reflector, and accessories separately

CATALOG NUMBER:

EXAMPLE: LC6LED120DM - 6LCLED535K8WT

HOUSING	VOLTAGE	HOUSING OPTIONS	TRIM APERTURE	OUTPUT	KELVIN	CRI	REFLECTOR FINISH	REFLECTOR COLOR	REFLECTOR OPTIONS	ACCESSORIES
<input type="checkbox"/> LC6LED 6" LED Housing	<input type="checkbox"/> 120 120V <input type="checkbox"/> 277 277V	<input type="checkbox"/> Blank No Dimming <input type="checkbox"/> DM 0-10V dimming to 10% <input type="checkbox"/> DM1 0-10V dimming to 1% <input type="checkbox"/> EM³ Bodine BSL310C- DF Battery Pack with integral test switch and indicator light <input type="checkbox"/> EMR Bodine BSL310C Battery Pack with remote test switch and indicator light <input type="checkbox"/> CP^{7,8} Chicago Plenum-	<input type="checkbox"/> 6LCLED 6" Open Reflector/ Light Engine Assembly	<input type="checkbox"/> 5 Nominal 1000 Delivered Lumens <input type="checkbox"/> 6 Nominal 1400 Lumens Delivered <input type="checkbox"/> 7 Nominal 1800 Lumens Delivered	<input type="checkbox"/> 27K 2700 Kelvin <input type="checkbox"/> 30K 3000 Kelvin <input type="checkbox"/> 35K 3500 Kelvin <input type="checkbox"/> 40K 4000 Kelvin	<input type="checkbox"/> 8 80+ CRI	<input type="checkbox"/> Blank Clear Alzak, Semi- Diffuse	<input type="checkbox"/> WH¹ White Paint	<input type="checkbox"/> WT White Trim <input type="checkbox"/> EM^{3,5} Pre-punched reflector to accept integral test switch <input type="checkbox"/> WF Wide Flange <input type="checkbox"/> WW^{5,6} Wall Wash <input type="checkbox"/> CP^{7,8} Chicago Plenum	<input type="checkbox"/> B24 Set of two(2) 24" bar hangers for T-bar ceilings <input type="checkbox"/> B6 Set of two (2) bar hangers for ceiling joist up to 24" centers <input type="checkbox"/> LG15^{2,4} Dual-Lite100VA Surface Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> LG1R^{2,4} Dual-Lite100VA Recessed Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> LG1T^{2,4} Dual-Lite100VA Recessed Ceiling T-Grid LiteGear Emergency Lighting Inverter <input type="checkbox"/> LG25^{2,4} Dual-Lite 250 VA Surface Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> SCA6D Sloped ceiling adapter (see note on page 6)

¹ Requires WT option

² See LC6LED and LiteGear Compatibility on page 3

³ EM must be selected on both the housing and the trim, not compatible with WW trim

⁴ Not compatible with EM or EMR

⁵ Damp location only

⁶ Not compatible with EM (EMR is compatible)

⁷ Not compatible with EM or EMR

⁸ CP must be selected on both the housing and the trim, not compatible with WW trim

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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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LFR-LED-013

PHOTOMETRIC DATA

LiteFrame - 6" LC6LED Downlight

DRIVER DATA	6LCLED5xxx	6LCLED6xxx	6LCLED7xxx
Input Voltage	120, 277V	120, 277V	120, 277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input Current	0.142 (120v) 0.061 (277v)	0.179 (120v) 0.078 (277v)	0.217 (120v) 0.094 (277v)
Input Power	17.0W	21.5W	26.0W
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.

LC6LED120 6LCLED535K8

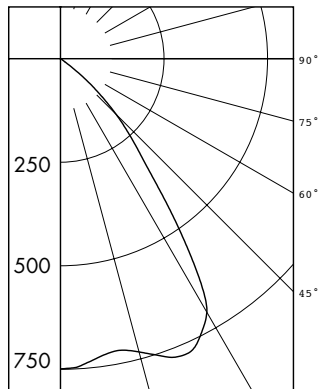
LED Light Engine: 3500K, 80+ CRI

System Wattage: 17.0W

Fixture Delivered Lumens: 1107

Fixture Efficacy: 65.1

Spacing Criteria: 1.1



CANDELA DISTRIBUTION

DEG	CANDELA
0	749
5	737
15	733
25	768
35	494
45	190
55	10
65	3
75	1
85	0
90	0

Test No. 9439

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-60	1104
0-90	1107
90-180	0
0-180	1107

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average - 0°
45°	16033
55°	1040
65°	424
75°	231
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																			
	80%				70%				50%				30%				10%			
	20% Effective Floor Cavity Reflectance																			
	% Wall Reflectance																			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	98	97	96	95	94		
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84		
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77		
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	78	75	72	72		
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	66		
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	61		
7	79	68	62	57	77	68	61	57	66	61	56	65	60	56	64	59	56	56		
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	52		
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	48		
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	53	48	44	44		

LC6LED120 6LCLED535K8

Test No. 9439

LC6LED120 6LCLED635K8

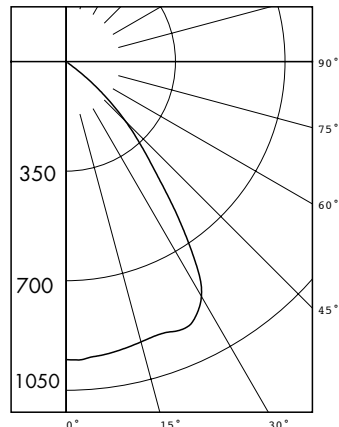
LED Light Engine: 3500K, 80+ CRI

System Wattage: 21.5W

Fixture Delivered Lumens: 1424

Fixture Efficacy: 66.2

Spacing Criteria: 1.1



CANDELA DISTRIBUTION

DEG	CANDELA
0	952
5	947
15	927
25	931
35	653
45	270
55	16
65	3
75	1
85	0
90	0

Test No. 9440

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-60	1420
0-90	1424
90-180	0
0-180	1424

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average - 0°
45°	22784
55°	1664
65°	424
75°	231
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																			
	80%				70%				50%				30%				10%			
	20% Effective Floor Cavity Reflectance																			
	% Wall Reflectance																			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10			
1	113	110	107	105	110	108	105	103	104	102	100	98	97	96	95	94	93			
2	106	101	97	93	104	99	95	92	96	93	90	88	87	86	85	84	83			
3	100	93	87	83	98	92	86	82	89	85	81	78	75	74	73	72	71			
4	94	86	79	75	92	84	79	74	82	77	73	70	67	66	65	64	63			
5	88	79	72	68	87	78	72	67	76	71	67	64	61	60	59	58	57			
6	83	73	66	62	82	72	66	61	71	65	61	58	55	54	53	52	51			
7	78	68	61	56	77	67	61	56	66	60	56	53	50	49	48	47	46			
8	74	63	56	52	72	62	56	52	61	55	51	48	45	44	43	42	41			
9	70	59	52	48	68	58	52	47	57	51	47	44	41	40	39	38	37			
10	65	55	48	44	64	54	48	44	53	47	43	40	37	36	35	34	33			

LC6LED120 6LCLED635K8

Test No. 9440



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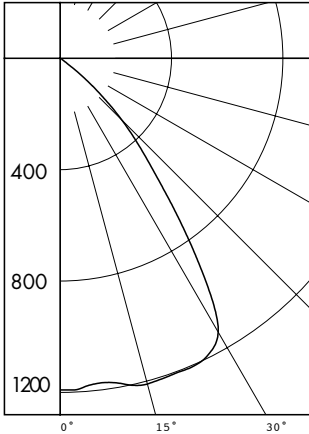
HUBBELL
Lighting, Inc.

PHOTOMETRIC DATA

LiteFrame - 6" LC6LED Downlight

LC6LED120 6LCLED735K8

LED Light Engine: 3500K, 80+ CRI
System Wattage: 26.0W
Fixture Delivered Lumens: 1797
Fixture Efficacy: 69.1
Spacing Criteria: 1.1



CANDELA DISTRIBUTION

DEG CANDELA

0	1191
5	1179
15	1211
25	1201
35	823
45	313
55	20
65	4
75	1
85	0
90	0

Test No. 9441

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-60	1791
0-90	1797
90-180	0
0-180	1797

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average - 0°
45°	26412
55°	2081
65°	565
75°	231
85°	0

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method

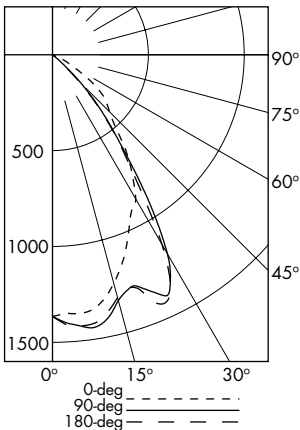
Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																			
	80%				70%				50%				30%				10%			
	20% Effective Floor Cavity Reflectance																			
	% Wall Reflectance																			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79			
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72			
5	89	79	73	68	87	78	72	68	77	71	67	75	70	67	73	69	66			
6	84	74	67	62	82	73	66	62	71	66	61	70	65	61	68	64	61			
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56			
8	74	63	57	52	73	63	57	52	62	56	52	61	55	52	60	55	51			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48			
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44			

LC6LED120 6LCLED735K8

Test No. 9441

LC6LED1206LCLED735K8 WW

LED Light Engine: 3500K, 80+ CRI
System Wattage: 26.1W
Fixture Delivered Lumens: 1830
Fixture Efficacy: 70.1



CANDELA DISTRIBUTION

DEG 0.0 90.0 180.0

0	1365	1365	1365
5	1356	1415	1420
15	1235	1327	1312
25	955	1388	1417
35	709	763	697
45	420	215	185
55	250	8	7
65	62	3	3
75	8	2	2
85	0	0	0
90	0	0	0

Test No. 15.00244

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°	32550	16662	14337
55°	23885	764	669
65°	8039	389	389
75°	1694	423	423
85°	0	0	0

MULTIPLE UNITS									
⊕	1'	2'	3'	4'	⊕	UNITS ON 3' CENTER	⊕	UNITS ON 4' CENTER	⊕

3' DISTANCE FIXTURE MOUNTED OUT FROM WALLS FOOTCANDLE DISTRIBUTION ON WALL SURFACE

DISTANCE FROM CEILING IN FEET	5	4	2	1	1	8	8	8	3	1	3
	10	8	4	2	1	16	16	16	14	6	14
	14	11	7	4	2	23	23	23	18	15	18
	15	13	9	5	3	28	28	28	18	17	18
	13	12	9	6	3	28	28	28	18	19	18
	10	10	9	6	4	27	27	27	15	18	15
	8	8	7	6	4	25	25	25	14	15	14
	6	6	6	5	4	22	22	22	13	12	13
	5	5	5	5	4	19	19	19	11	10	11

LC6LED120-6LCLED735K8 WW

Test No. 15.00244



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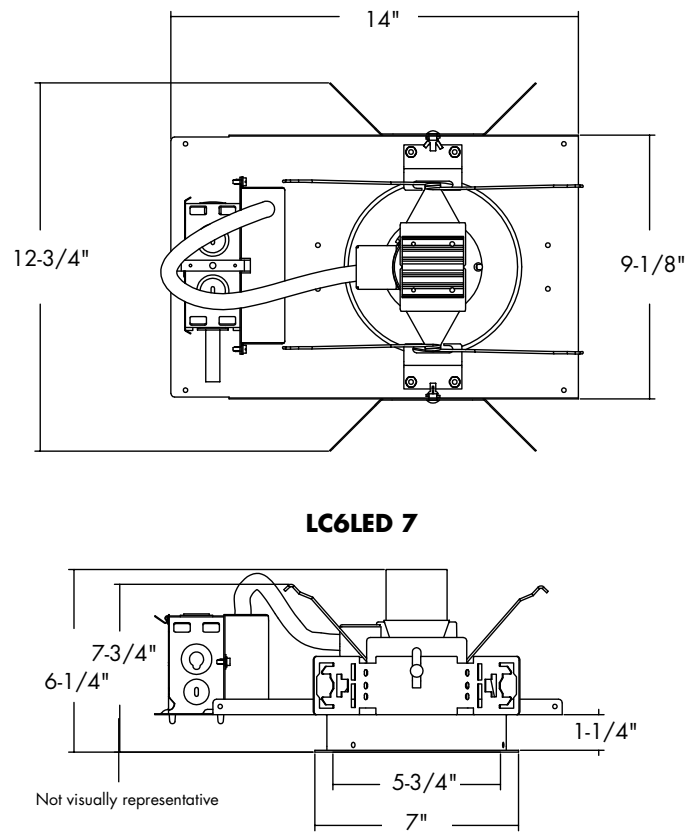
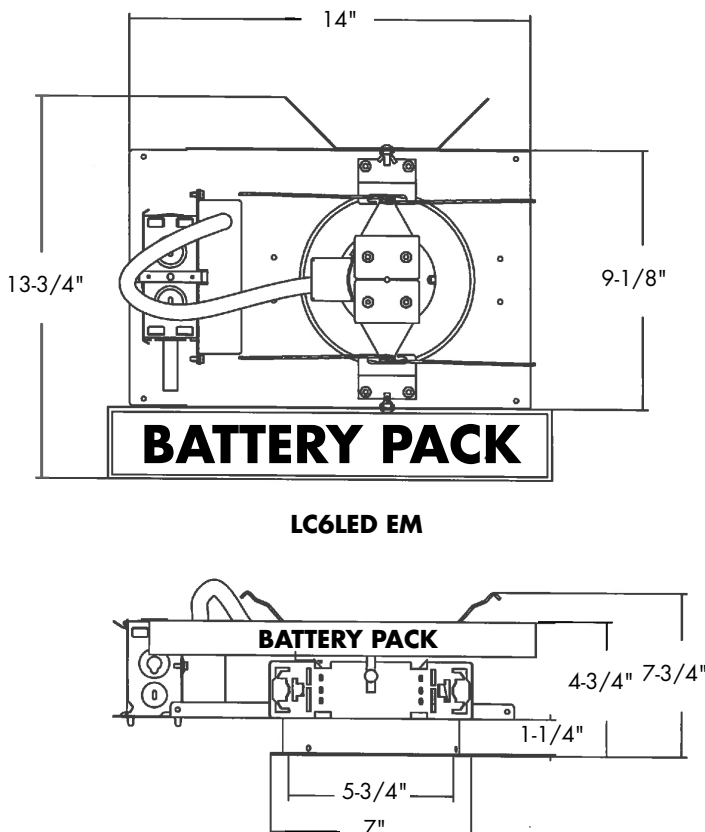
HUBBELL
Lighting, Inc.

Dimming Compatibility Table

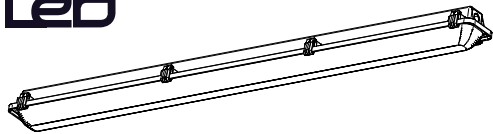
Dimming Ballast	Manufacturer	Web Link
DM/DM1	Lutron DTV	http://bit.ly/11jSvZg
DM/DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9

Central Inverters

For fixture full light output in back-up mode, Prescolite and Dual-lite have jointly tested the LiteFrame Commercial LED with the 100 (LG1) and 250 (LG2) VA LiteGear inverters. For more information on LiteGear go to http://www.dual-lite.com/resources/litegear_luminaire_loading_chart/



LED



createchange

- Available in 4' length
- Narrow housing design for applications with limited space
- Long life 60,000 hour LEDs at L80 for reduced maintenance
- Four LED color choices
- IP65 and IP67 Standard
- IP66 all sizes when ordered with standard polyacetal (POM) latches
- Fiberglass housing with F1 weatherability rating, standard
- Wet label standard
- UL Sanitation certified to NSF standards
- Gasket is non-porous to ensure seal
- Impact modified acrylic lens equivalent to 100% DR
- Lens firmly secured with captive tamper resistance ready polyacetal latches
- Stainless steel latching optional
- Removable gear tray electrical access
- Includes surface mounting brackets
- Operates from -20°C to 25°C as standard
- Optional elevated ambient on most models
- Five year warranty (Terms and Conditions apply)

PROJECT INFORMATION

Project Name

Type

Catalog No.

Date

CONSTRUCTION

Housing is formed from UL 5VA fiberglass. F1 weatherability rating, suitable for indoor or outdoor use with respect to exposure to UV light. Pour-in-place non-porous gasketing assures seal. LED affixed to removable gear tray. 8 Latches per 4' length. Latches are provided tamper resistance ready, tamper resistant screws by others. Latches are standard polyacetal (POM), optional in stainless steel. Access openings are provided for electrical connection.

SHIELDING

Lineal ribbed frosted acrylic lens impact modified equivalent to 100% DR; modification adds flexibility to reduce impact breakage compared to standard acrylic formulations.

FINISH

White painted parts are treated with a five-stage phosphate bonding process and finished with high reflectance baked enamel.

ELECTRICAL

Long-life LEDs are rated for 60,000 hours at L80 lumen maintenance. Driver options include fixed output for on/off function or continuous 0-10V dimming. QR code label affixed to housing for easy traceability.

CERTIFICATION

All luminaires are built to UL1598 and 2108 standards, and bear appropriate CSA labels. Ingress protection IP65, IP66, and IP67 standard. UL Sanitation certified. Wet location labeling is standard.

WARRANTY

Five year warranty (Terms and Conditions Apply).

ORDERING INFORMATION

EXAMPLE LXEN4-35LW-RFA-EDU-HT

LXEN	4	-	-	RFA	-	U	-
MODEL	SIZE	COLOR TEMP	LUMEN OUTPUT	LENS	DRIVER	VOLTAGE	OPTIONS
LXEN ED Narrow Enclosed and Gasketed	4 4'	30 3000K 35 3500K 40 4000K 50 5000K	XW Extra Low Watt LW Low Watt	RFA Ribbed Frosted Acrylic ¹	E Fixed Output ED 0-10V Dimming	U 20V-277V	GLR Fast Blow Fuse SSL Stainless Steel Tamper Resistance Ready Latches TP Tamper Proof Latches F3C8W 3 Wire 8' Wet Cord F3C15W 3 Wire 15' Wet Cord SWH Single Wet Hub 1/2" NPT Hub DWH Dual Wet Hub 1/2" NPT Hub XEDPM Dual Pendant Brackets (pendant by others) ² WIH wiHUBB Enabled HT Elevated Ambient to 40°C

PRODUCT AVAILABILITY				
Size	Lumen Package	Nominal Lumen Range (DFA Lens)	Nominal Watts	Lumens/Watt
4'	XW	2000 - 2200	18	111 - 122
	LW	3800 - 4300	37	102 - 116

Nominal lumen range represents 3000K through 5000K. Lumens vary according to color temperatures and other factors. See specific photometric test(s).

¹ Standard impact resistant equivalent to 100% DR.

² Requires 3/4" OD threaded rod by others.

PHOTOMETRIC DATA

Test 15629 Test Date 10/8/15

LUMINAIRE DATA

Luminaire	LXEN4-40XW-RFA-EU LXEN LED Narrow Enclosed and Gasketed, Extreme Environment 7" x 51" LED with Ribbed Frosted Acrylic Diffuser
Ballast	XIO20C056V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	2095
Watts	17.70
Mounting	Surface
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.19 90° = 1.18
Luminous Opening in Feet	Length: 4.25 Width: 0.31 Height: 0.17

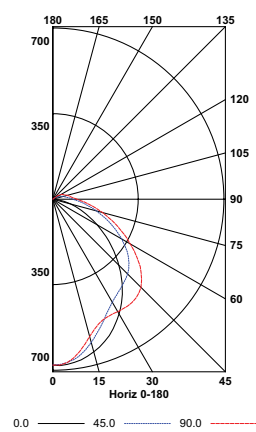
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	484	23.1	23.1
0-40	789	37.6	37.6
0-60	1435	68.5	68.5
0-90	1964	93.7	93.7
0-180	2095	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	100%
Total Lumens per Watt	118
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.07 based on 3000 hrs. and \$0.08 per KWH

INDOOR CANDELA PLOT



LUMINAIRE DATA

Luminaire	LXEN4-40LW-RFA-EU LXEN LED Enclosed and Gasketed, Extreme Environment 7" x 51" LED with Ribbed Frosted Acrylic Diffuser
Ballast	XIO40C110V054BPT1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4085
Watts	36.60
Mounting	Surface
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.19 90° = 1.26
Luminous Opening in Feet	Length: 4.13 Width: 0.29 Height: 0.00

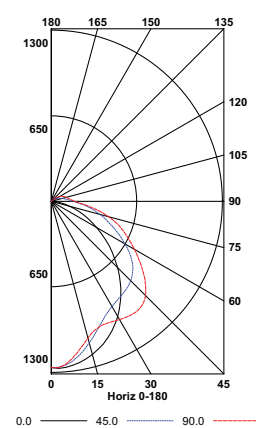
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	900	22.0	22.0
0-40	1483	36.3	36.3
0-60	2746	67.2	67.2
0-90	3822	93.5	93.5
0-180	4085	100.0	100.0

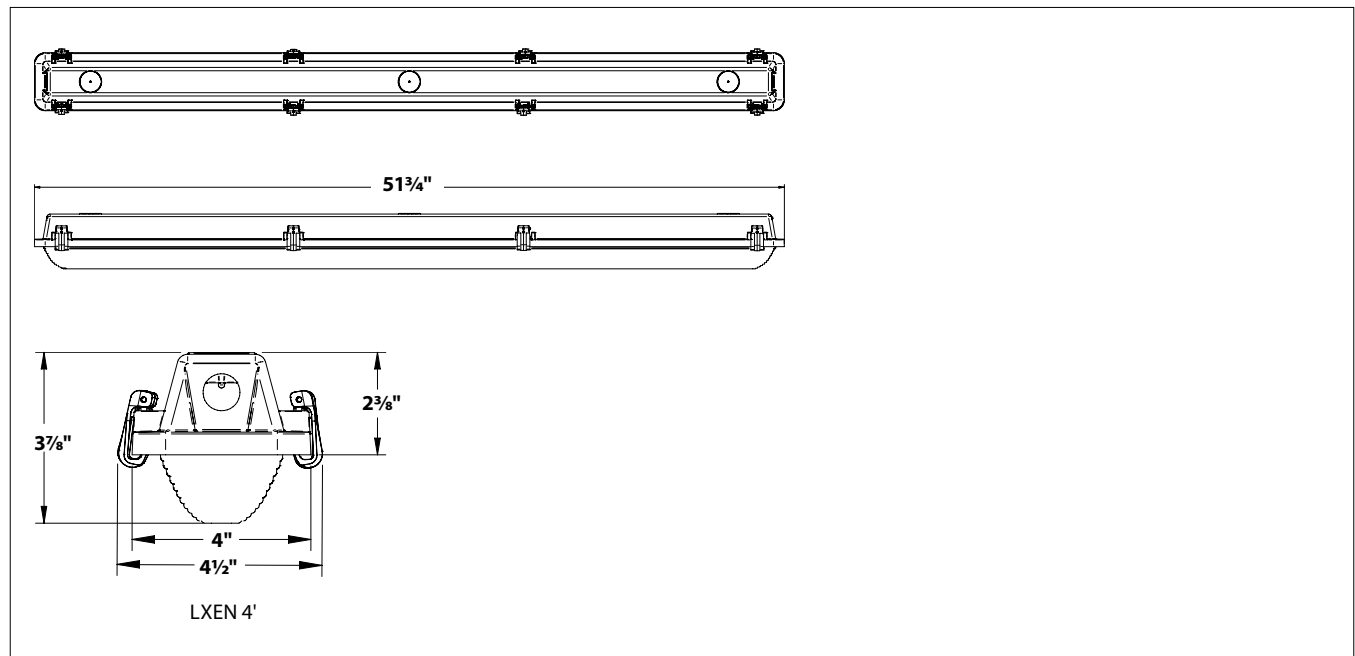
ENERGY DATA

Total Luminaire Efficiency	100%
Total Lumens per Watt	112
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.18 based on 3000 hrs. and \$0.08 per KWH

INDOOR CANDELA PLOT



DIMENSIONAL DATA



NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

ASL LED SERIES AREA/SITE/ROAD LIGHTER

Cat.#

Job

Type



HUBBELL
Outdoor Lighting

Approvals

SPECIFICATIONS

Construction:

- Stylish vertically finned die-cast and extruded aluminum for maximum heat dissipation
- Separate optical and electrical compartment for improved thermal management and optimum component operation
- EPA: 8L – .50ft²
16L – .62 ft²
24L – .74 ft²

Optics:

- Premium engineered individual acrylic lenses deliver IES Type II, III, IV and V distributions
- Lens distributions are field rotatable (in 90° increments) or exchangeable for job site fine-tuning
- 3000K, 4000K, or 5000K (70 CRI) CCT
- Zero uplight

Electrical:

- Configured with 8, 16, or 24 high current and high output LEDs to replace 150, 250 and 400w HID respectively
- Universal 120-277 VAC input voltage, 50/60 Hz
- Single driver, 2100mA drive current
- Ambient operating temperature -40° C to 40° C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 10KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is consumed

Controls:

- 0-10V dimming standard photocell, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- Dimming leads can be pulled for use with remote control devices, order as special

Installation:

- Tool-less entry to wiring/driver compartment
- Universal mounting block works with #2 drill pattern (See page 4 illustration)
- Fixture ships with slotted mounting block to accommodate wide range of drill patterns for easy retrofit opportunities (See page 4 illustration for dimensions)
- Mast arm fitter accessory or option available for 2-3/8" OD brackets

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:

- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- IP65 optical assembly
- IDA approved

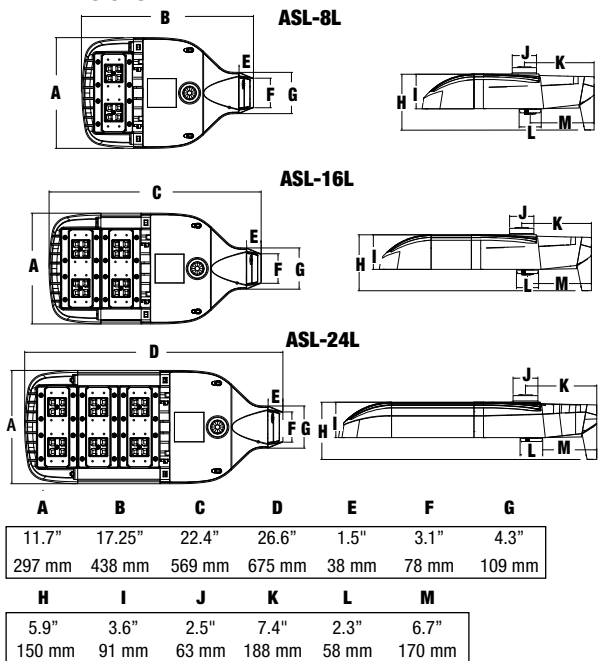
PRODUCT IMAGE(S)

ASL-24L

ASL-16L

ASL-8L

DIMENSIONS



SHIPPING INFORMATION

Catalog Number	G.W(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
ASL-8L	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
ASL-16L	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)
ASL-24L	24 (10.8)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

CERTIFICATIONS/LISTINGS



ORDERING INFORMATION - STOCK CONFIGURATIONS

Catalog Number	Description	Distribution	Wattage	# Drivers Drive Current	Voltage	Color Temperature	Lumens	LPW	Weight lbs. (kg)
ASL-16L-3	Medium size 16 LED configuration, Dark Bronze	Type III	123	1@2100mA	120V-277V	4000K	11153	91	18 (8.16)
ASL-16L-4	Medium size 16 LED configuration, Dark Bronze	Type IV	123	1@2100mA	120V-277V	4000K	11417	93	18 (8.16)
ASL-24L-3	Large size 24 LED configuration, Dark Bronze	Type III	181	1@2100mA	120V-277V	4000K	16364	91	20 (9.07)
ASL-24L-4	Large size 24 LED configuration, Dark Bronze	Type IV	181	1@2100mA	120V-277V	4000K	16752	93	20 (9.07)

CONFIGURABLE ORDERING INFORMATION NEXT PAGE



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ASLLED-SPEC 11/15

ORDERING INFORMATION

ORDERING EXAMPLE: ASL-A-24L4K-210-4-U-DB

ASL	-		-		-	210	-		-		-	
FAMILY	MOUNTING	# LEDS	CCT	DRIVE CURRENT	DISTRIBUTION	VOLTAGE	COLOR	OPTIONS				
ASL ASL Series	A Arm MAF Mast Arm Fitter	8L 8 High brightness LEDs 16L 16 High brightness LEDs 24L 24 High brightness LEDs	3K 3000K, 70 CRI 4K 4000K, 70 CRI 5K 5000K, 70 CRI	210 2100mA	2 IES TYPE II 3 IES TYPE III 4 IES TYPE IV 5 IES TYPE V	U Universal 1 120 2 208 3 240 4 277	BL Black DB Dark Bronze GR Gray PS Platinum Silver WH White CC ¹ Custom Color	F Fusing (voltage specified and determined by voltage field) 7PR ² 7-pin ANSI twist-lock photocell receptacle RPA(X) Round pole adapter (Replace X with 3, 4, 5 or 6 indicating pole diameter) SCPW Programmable motion sensor with dimming control (line voltage device not for use with 7PR receptacle option and external wireless control devices); A minimum of one SCP-REMOTE accessory remote control required for configuration; Wide lens with motion detection radius equal to 1.3 X luminaire mounting height (approx. distance) TB Terminal block				

1 – Contact factory for minimum order quantities

2 – 7-pin ANSI C136.41—2013 receptacle for use with standard Twist-Lock® photo controls, shorting caps, and ANSI C136.41 external wireless control devices with and without motion/occupancy override

1 - Contact factory for minimum order quantities

2 - 7-pin ANSI C136.41—2013 receptacle for use with standard Twist-Lock® photo controls, shorting caps, and ANSI C136.41 external wireless control devices with and without motion/occupancy override

ACCESSORIES - Order Separately

Catalog Number	Description
ASL-MAF	Mast arm kit with wildlife shield for mounting on 2 3/8" OD arms
RATA-XX ¹	Single round arm tenon fits 2 3/8" OD, requires ASL-MAF accessory kit for stocked configurations
SCP-REMOTE	Remote control for SCPW option. Order at least one per project to program and control
CR-RPA(X)-XX ¹	Round pole adapters are available for 3, 4, 5, and 6 inch diameter round poles. Requires universal mounting block option.
WB-CR-XX ¹	Wall bracket. Requires universal mounting block option.
PTL-1	Photocontrol - twist-lock cell (120V) - Requires 7PR option
PTL-8	Photocontrol - twist-lock cell (120-277V) - Requires 7PR option
PSC	Shorting cap - twist-lock - Requires 7PR option

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



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ASLLED-SPEC 11/15

PERFORMANCE DATA

				5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 80 CRI)				
# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
8	2100	62	2	6304	102	1	0	1	5775	93	1	0	1	5068	82	1	0	1
			3	6139	99	1	0	1	5624	91	1	0	1	4935	80	1	0	1
			4	6285	101	1	0	1	5757	93	1	0	1	5149	83	1	0	1
			5	6194	100	3	0	1	5674	92	3	0	1	4979	80	3	0	1
16		123	2	12502	102	2	0	2	11453	93	2	0	2	10441	85	2	0	2
			3	12175	99	2	0	2	11153	91	2	0	2	10168	83	2	0	2
			4	12463	101	2	0	2	11417	93	2	0	2	10409	85	2	0	2
			5	12283	100	4	0	2	11253	91	4	0	2	10259	83	4	0	2
24		181	2	18343	101	3	0	3	16804	93	3	0	3	15437	85	3	0	3
			3	17863	99	3	0	3	16364	90	3	0	3	15033	83	3	0	3
			4	18287	101	2	0	2	16752	93	2	0	2	15389	85	2	0	2
			5	18022	100	4	0	2	16510	91	4	0	2	15167	84	4	0	2

1 - Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

ELECTRICAL DATA

# OF LEDS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
8	1@(2100mA)	120	62	0.52
		208	62	0.30
		240	62	0.26
		277	62	0.22
16		120	123	1.03
		208	123	0.60
		240	123	0.52
		277	123	0.45
24		120	181	1.49
		208	181	0.86
		240	181	0.74
		277	181	0.64

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0° C	32° F	1.06
10° C	50° F	1.03
20° C	68° F	1.01
25° C	77° F	1.00
30° C	86° F	0.99
40° C	104° F	0.97
50° C	122° F	0.94

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	OPERATING HOURS					L70 (hours)
	0	25,000	TM-21-11 ¹ L90 36,000	50,000	100,000	
25°C / 77°F	1.00	0.93	0.90	0.86	0.75	>125,000
40°C / 104°F	0.99	0.90	0.86	0.81	0.67	>88,000

1. Projected per IESNA TM-21-11 (* Cree XP-L, 2100mA, 105°C Ts, 6,000hrs)



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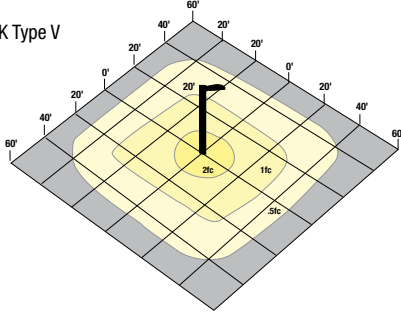
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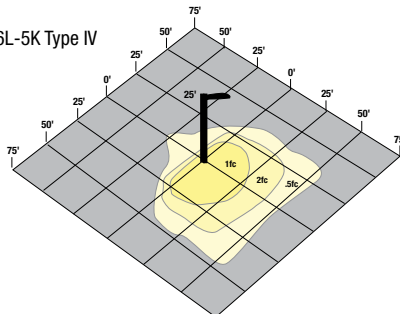
ASLED-SPEC 11/15

PHOTOMETRICS For additional photometric information and IES downloads, visit our web site at www.hubbelloutdoor.com

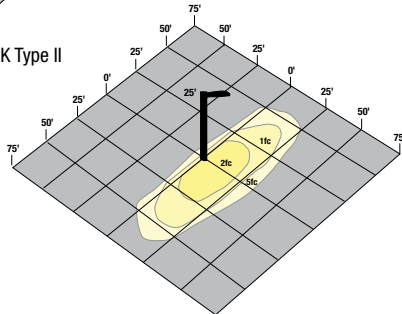
ASL-8L-5K Type V



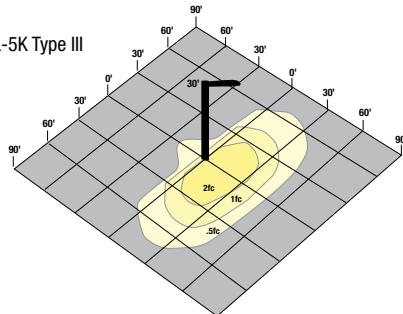
ASL-16L-5K Type IV



ASL-16L-5K Type II

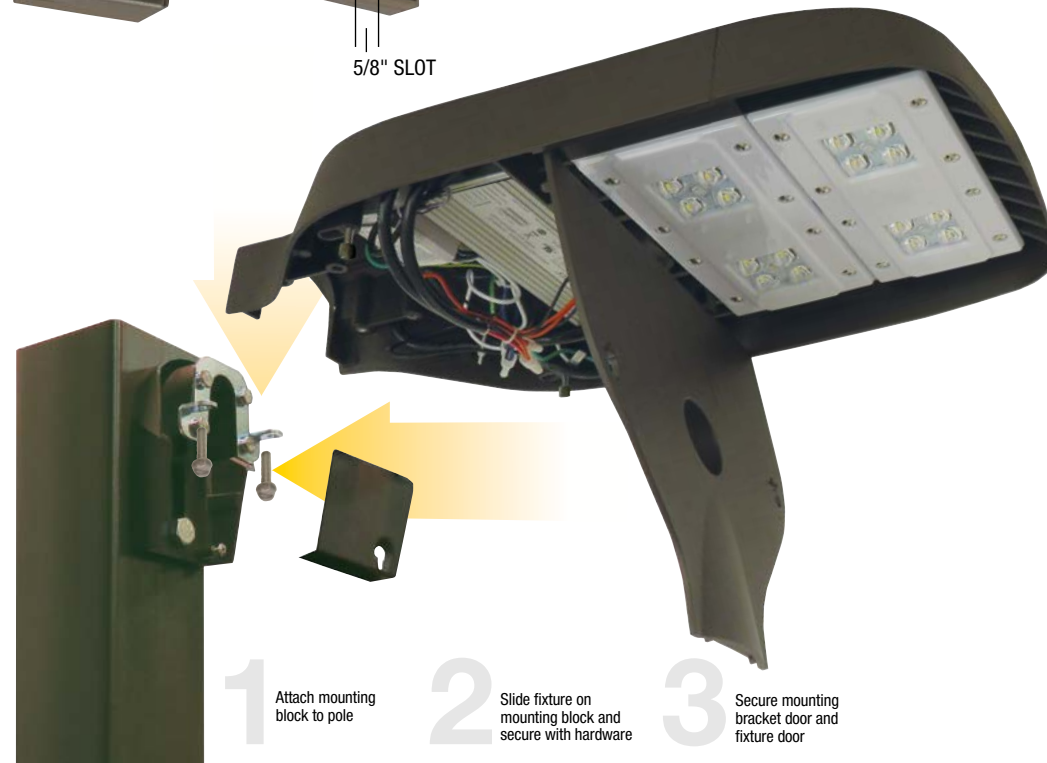
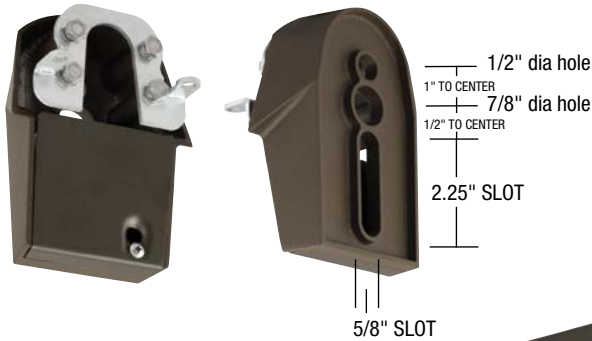


ASL-24L-5K Type III



MOUNTING BLOCK

Fixture ships with universal mounting block for ease of installation. Compatible with #2 drill pattern.





Type:

Catalog #:

Project:

Comments:

Prepared by:

Description

The D534-LED is an efficient under canopy and garage light. Its rugged construction easily installs on junction boxes. High quality thermal heat sinks dissipate the LED heat and insure reliable long life. Also perfect for retrofit lighting applications.

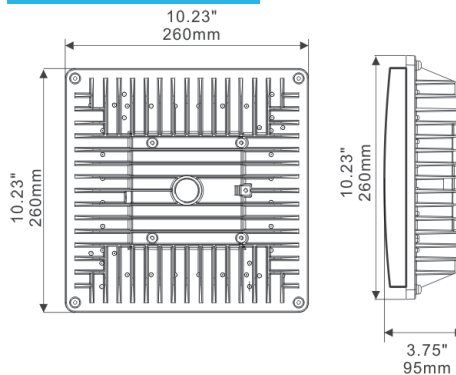
D534-LED



Features

- Technical Specifications
- Die cast housing with polycarbonate lens
- Bronze UV resistant powder coat finish is standard (white is optional)
- Input voltage: 120-277V AC
- High quality, long life LED. Estimated lifespan of 50,000 hours
- 30 Watts that offers 3810 total delivered lumens
- 4700K color temperature
- Low starting temperature of -30°C
- Compatible with external photocell (not supplied)
- Optional weatherproof junction box for conduit entry
- 1KVAC surge protection included (120-277V only)

Dimensions



Ordering Information:

Example: (D534-LED-30-50-UNV-SL-BG)

D534-LED

Series	Wattage/Lumen	Color Temp.	Voltage	Option
LED Under Canopy and Garage Light	30 30W/3810 ¹	47 4700K	UNV 120-277V	TP Vandal resistant screws
¹ Initial Lumens Delivered				



Transforming tomorrow's lighting....today!

Job Information

Type:

Catalog #:

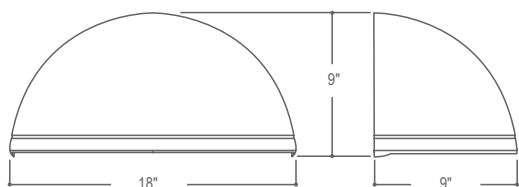
Project:

Comments:

Prepared by:



Dimensions



Description

The Quarter Sphere cutoff wall luminaire has a traditional style of spherical form with geometrical symmetry and balance that gives a blended form to complement site design. U.L. Listed and CSA Certified for wet locations in down mount applications and damp locations in up mounted applications.

Features

- Two-piece die-cast aluminum housing
- Rigid steel mounting attachment fits directly to 4" J-Box or wall for quick installation
- Die-cast door features 1/8" heat- and impact-resistant clear tempered glass lens.
- Hinged door secured in place via two (2) captive fasteners
- Durable polyester powder coat finish. Standard color is bronze. Other finish colors available
- U.L. 1598 listed for wet locations. CSA certified
- Dark Sky compliant
- Approx. Weight: 13 lbs
- Standard color is bronze; also available in black and white. Contact factory for custom finishes.
- DLC listed.
- CRI: 80+
- 10 Year Limited Warranty
- 100,000 hours lifetime

ORDERING INFORMATION:

Example: (D441-LED-20-50-UNV-BZ-WSF)

D441-LED

Series
 Quarter Sphere
 Cut-Off Wallpack

Wattage/Lumens
 20 - 20W/2540^{3,5}
 30 - 30W/3810^{3,5}
 40 - 40W/5080^{3,5}
 60 - 60W/7620^{3,5}

Color Temp.
 41 - 4100K
 50 - 5000K^{4,5}

Voltage
 UNV - 122-277V
 347 - 347V
 480 - 480V
 (Step-Down Transformer
 used for 480V Divider)

Finish
 BZ - Bronze¹
 BL - Black
 WH - White
 CU - Custom²

**DARK SKY
 COMPLIANT** ^{FCO}
 Full Cut-Off

Options
 WDF - Wired Double Fuse
 WSF - Wired Single Fuse
 PC - Photocell
 EMB - Integral Emergency Backup

¹ Standard color for this fixture
 Contact factory for custom finishes

³ Initial lumens delivered

⁴ Standard Color temperature

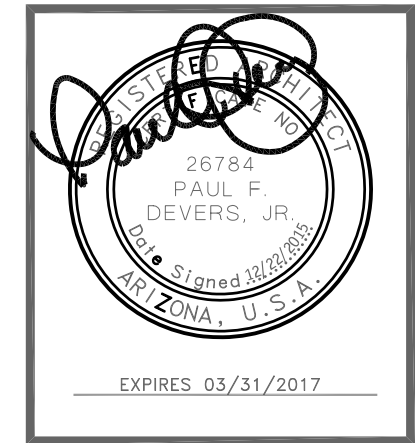
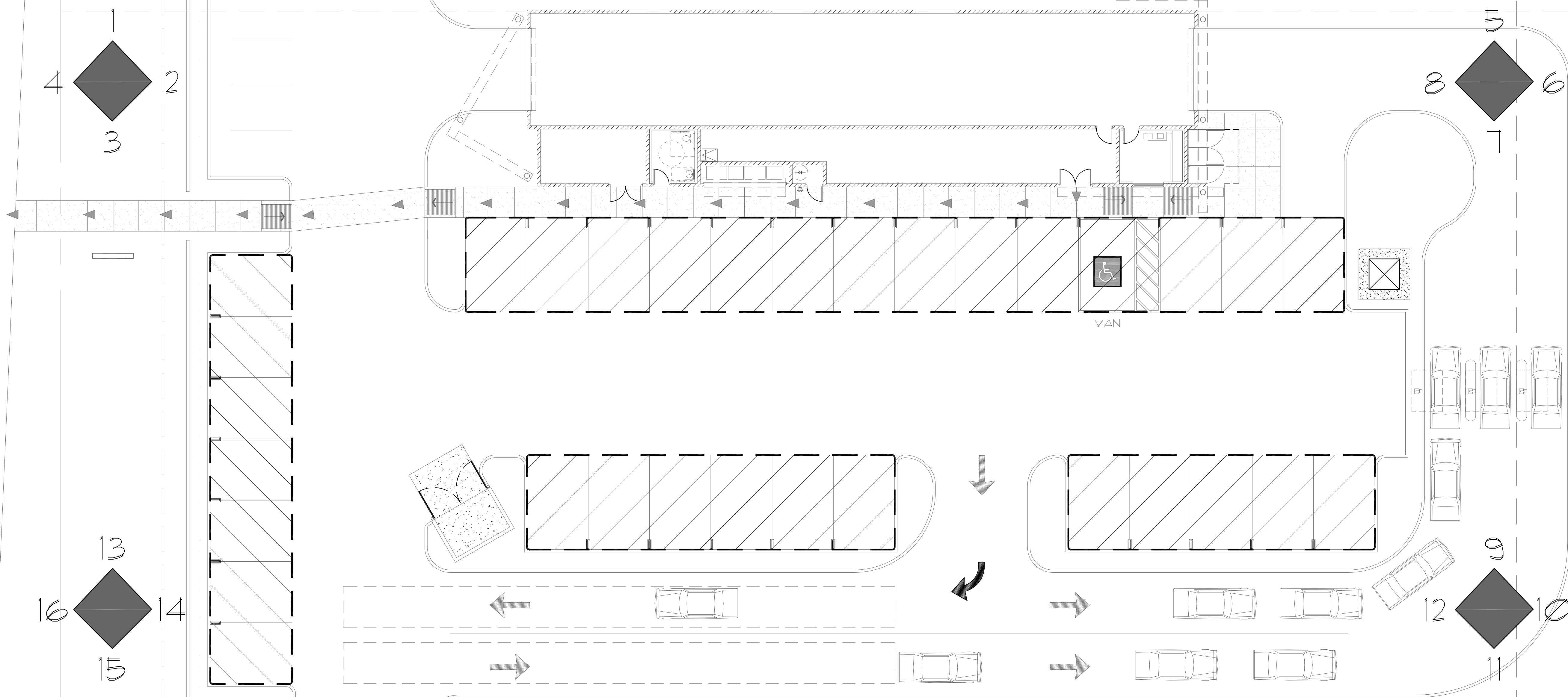
⁵ DLC Listed

SITE PHOTOS

Superstar Express Car Wash

1239 South Crismon Road
Mesa, AZ

S. CRISMON ROAD



**SUPERSTAR
EXPRESS
CARWASH**

SEC CRISMON RD
& SOUTHERN AVE
MESA
ARIZONA

DATE
PRE-APP SUBMITTAL 11-02-2015
REVISED SITE PLAN 11-25-2015
DR SUBMITTAL 12-28-2015

**NOTICE OF ALTERNATE BILLING
CYCLE:**
This contract allows the owner to require
submission of billings or estimates in billing
cycles other than thirty days. A written
description of such other billing cycle
applicable to this project is available from
the owner or the owner's designated agent
(see owner's telephone number and address
on cover sheet) and the owner or its
designated agent shall provide this written
description upon request.

The architectural design, conception and
data presented herein represents an
instrument of service provided in connection
with the design-build project development
agreement for the exclusive use of Cawley
Architects. Any other use or release of these
drawings may result in civil damages.

This site plan has been prepared without the
benefit of a survey. Depictions may not be
accurate or fully reflect all dimensions, data,
etc., which may affect the design and
usability of this site. All design shown here is
strictly conceptual.

Superstar Express Car Wash / Site Photos



1



2

Superstar Express Car Wash / Site Photos



3



4

Superstar Express Car Wash / Site Photos



5



6

Superstar Express Car Wash / Site Photos



7



8

Superstar Express Car Wash / Site Photos



9



10



11



12

Superstar Express Car Wash / Site Photos



13



14



15



16

existing, no additional dedications are proposed. The allowable building height per ordinance is 30'-0" and this building will comply.

Setbacks per Table 11-6-3A: Developments are proposed as follows;

- Front and Street Side setback – 15'-0" required | 29'-3" proposed (face of parking curb).
- Interior Side and Rear setback – 15'-0" required | proposed;
 - North interior – 5'-0" adjusted based on city comment (face of building)
 - East interior – 5'-0" proposed (face of curb)
 - South interior – 5'-0" adjusted based on city comments
- These interior setbacks proposed are based on the overall commercial center as a whole in regards to layout, use, access and circulation and comments received.

Architecture and Building Design:

The design of the project will bring a cohesive and contemporary building that will add interest and style complimentary to the center as a whole. The exterior elevations will be comprised of a variety of materials including; glazing, concrete masonry units (both running bond and single score units) and perforated metal building elements. The building is intentionally articulated both in plan and at the top of the building.

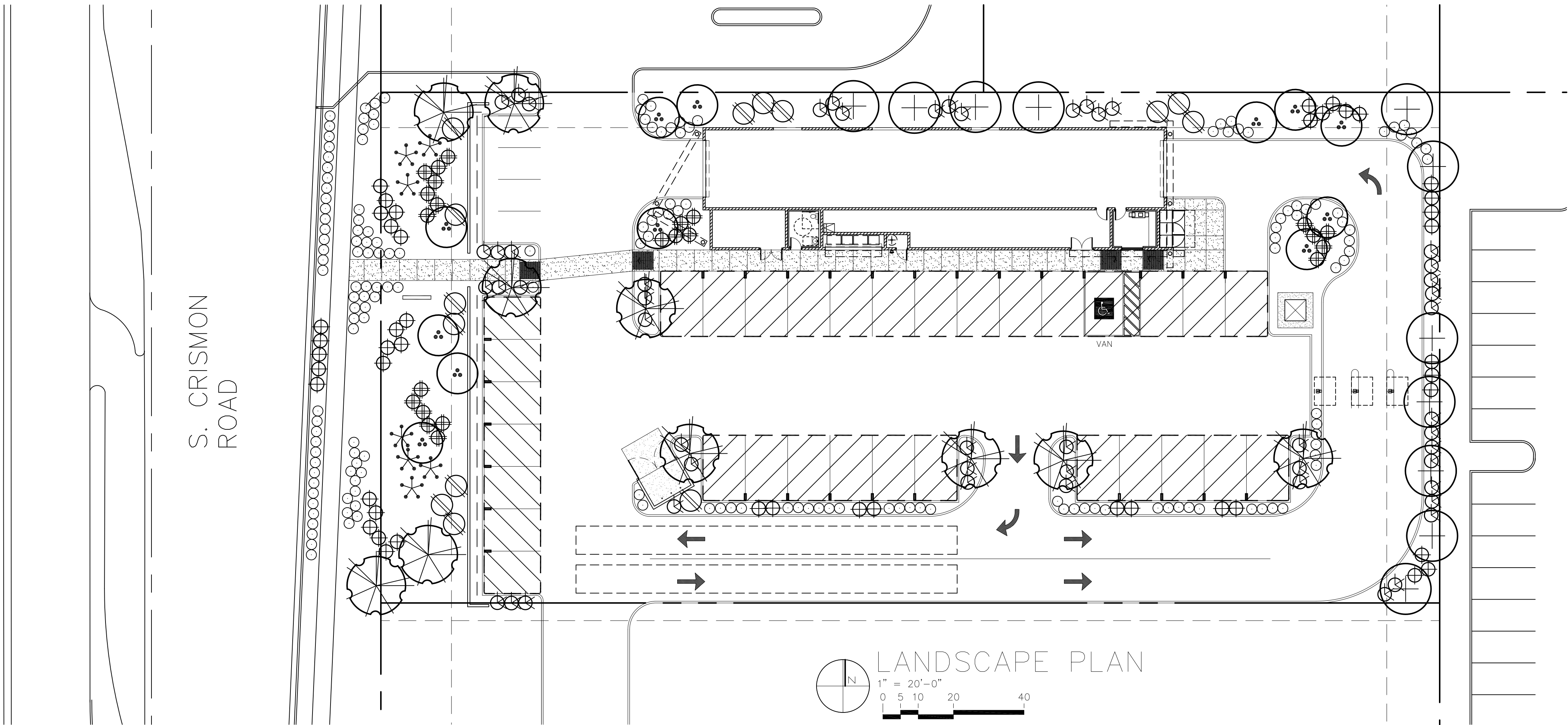
The long north and south facades are rich in articulation with varied colors, materials and painted steel accents on the building proper. Additionally, perforated metal panels forms are added to help articulate the building facades, adding interest to the overall composition. Also, with the perforated metal panel sections visual interest will be added with the relative transparency created.

The main portion of the building will have a flat roof with roof top mechanical units that will be fully screened by parapet walls which compliment the building design. Building articulation is provided through varied horizontal and vertical building elements, richness of colors variety of materials and shade and shadow.

As always, we look forward to a successful development that will bring another valued project to both the City and the surrounding neighborhood as a whole.

Sincerely,

Brad Vokes
Design Manager
Cawley Architects, Inc.



LANDSCAPE LEGEND

- QUERCUS VIRGINIANA
LIVE OAK
24" BOX (MATCHING)
- ACACIA SALICINA
WILLOW ACACIA
24" BOX
- SOPHORA SECUNDIFLORA
TEXAS MOUNTAIN LAUREL
24" BOX
- TECOMA 'ORANGE JUBILEE'
ORANGE JUBILEE
5 GALLON
- HESPERALOE PARVIFLORA
RED YUCCA
5 GALLON
- DASYLIRION WHEELERII
DESERT SPOON
5 GALLON
- CAESALPINIA MEXICANA
MEXICAN BIRD OF PARADISE
5 GALLON
- RUELLIA PENINSULARIS
BAJA RUELLIA
5 GALLON
- LANTANA MONTEVIDENSIS
'GOLD MOUND'
1 GALLON

CITY OF MESA
LANDSCAPE NOTES

- ALL LANDSCAPE AREAS TO RECEIVE 2" LAYER DECOMPOSED GRANITE
- ALL LANDSCAPE AREA TO BE WATERED BY UNDERGROUND AUTOMATIC IRRIGATION SYSTEM.
- THE HEIGHTS AND CALIPERS SHALL COMPLY WITH 'ARIZONIA NURSERY ASSOCIATION SPECIFICATIONS' FOR THAT SIZE AND TYPE OF TREE.
- REQUIRED TREES SHALL BE PROVIDED IN EQUAL NUMBERS OF 15 GALLON SIZE AND 24" BOX SIZE OR LARGER.
- REQUIRED SHRUBS SHALL HAVE A MATURE GROWTH HEIGHT OF 18" AT LEAST 50% OF REQUIRE SHRUBS SHALL BE 5 GALLON SIZE.
- PLANT MATERIAL SHALL BE CALCULATED BASED ON A LINEAR MODULE OF 25 FEET. TREES AND SHRUBS MAY BE CLUSTERED.

ARTERIAL STREET:

(2) TREES AND (6) SHRUBS PER 25' OF STREET FRONTAGE

MAJOR, MIDSECTION COLLECTOR STREET:

(2) TREES AND (6) SHRUBS PER 25' OF STREET FRONTAGE

COLLECTOR/INDUSTRIAL/COMMERICAL STREET:

(1) TREES AND (4) SHRUBS PER 25' OF STREET FRONTAGE

PUBLIC OR PRIVATE LOCAL STREET:

(1) TREES AND (4) SHRUBS PER 25' OF STREET FRONTAGE

7. PLANT MATERIAL SIZES REQUIRED:

TREES: (TOTAL REQUIRED TREES)

25% SHALL BE 36" BOX OR LARGER
50% SHALL BE 24" BOX OR LARGER
NO TREES LESS THAN 15 GALLON

SHRUBS: (TOTAL REQUIRED SHRUBS)

50% SHALL BE 5 GALLON OR LARGER.
NO SHRUBS LESS THAN 1 GALLON

8. 1 TREES AND 3 SHRUBS FOR EVERY 15' PARKING ISLAND. PARKING SHALL BE INSTALLED @ EACH END OF ROW OF STALLS AND IN BETWEEN FOR MAXIMUM OF EIGHT CONTIGUOUS PARKING SPACES

9. FOUNDATION LANDSCAPING:LANDSCAPING TO A MINIMUM HEIGHT OF 18" IS REQUIRED IMMEDIATELY ADJACENT TO, OR PROVIDED IN PLANTER AREAS ADJACENT TO BUILDING, WHICH HAVE FRONTAGE ON A PUBLIC STREET. PLANTING AREAS MUST BE A MIN. OF 5' WIDE AND A MIN. OF 50% PLANT COVERAGE.

10. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE TESTED AND APPROVED BY A CERTIFIED TECHNICIAN DESIGNATED IN THE CURRENT CITY OF MESA LIST THE APPROVED INSPECTORS PRIOR TO THE REQUEST FOR FINAL INSPECTION".

11. THE REQUIRED BACKFLOW PREVENTION ASSEMBLY SHALL BE MANUFACTURER AND MODEL NUMBER DESIGNATED IN THE CURRENT CITY OF MESA LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES".

12. ALL WORK WILL BE DONE UNDER SEPARATE PERMIT FOR SIGNS".

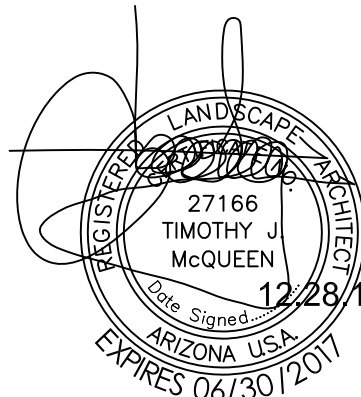
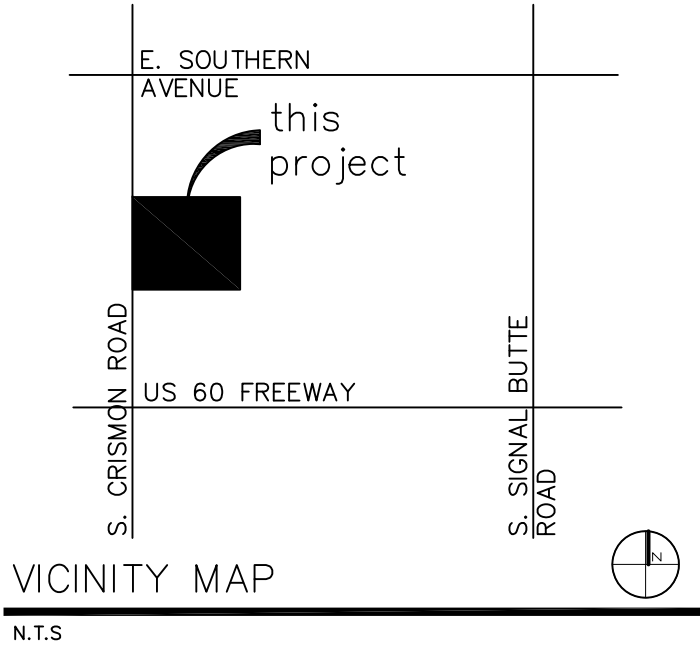
13. ALL LANDSCAPING INSTALLED WITH THIS PROJECT TO BE MAINTAINED BY OWNERS ASSOC. OR OWNERS ASSOCIATION OF COMMERCIAL SUBDIVISION OR MANAGEMENT COMPANY IF COMMERCIAL RENTALS

14. THAT ALL TREES AND SHRUBS LOCATED IN LINE-OF-SIGHT WILL BE MAINTAINED TO A CLEAR AREA BETWEEN OF 3' TO 7'

15. RIP-RAP MUST BE ON NATURAL MATERIALS MATCHING D.G COLORS CONCRETE OR GUNITE MUST BE COLORED TO MATCH D.G. COLOR

16. TREES SHALL BE PLANTED @ LEAST 20' AWAY FROM ANY STREET LIGHT POLE OR LOCATION. SHRUBS SHALL BE PLANTED @ LEAST 7' FEET AWAY FROM ANY STREET LIGHT POLE OR LCC.

17. 10% OF TOTAL TREES IN PARKING SHALL BE 36" BOX OR LARGER.



T.J. McQUEEN & ASSOCIATES, INC.
LANDSCAPE ARCHITECTURE
URBAN DESIGN
SITE PLANNING

8433 East Cholla St., Suite 101
Scottsdale, Arizona 85260
P. (602) 265-0320 F. (602) 266-6619
EMAIL: timmcqueen@tjmla.net



730 N. 52nd St. Ste. 203
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NOTICE OF ALTERNATE BILLING CYCLE:

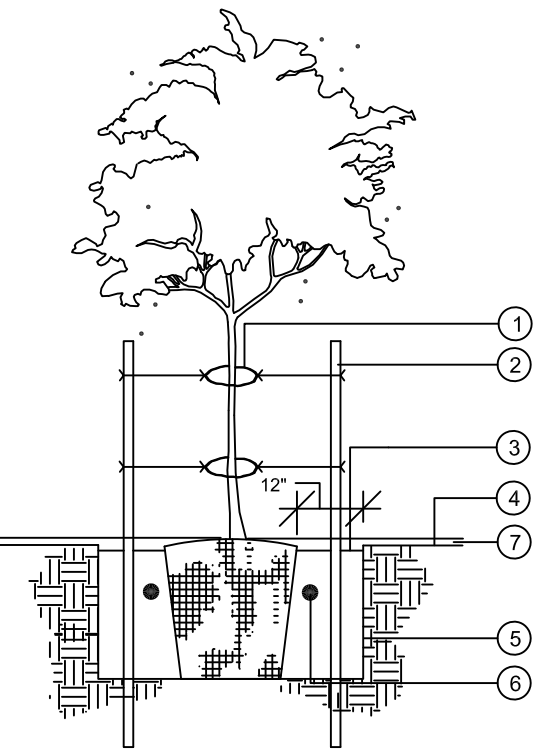
The contract allows the owner to require submission of billings or estimates in billing cycles other than thirty days. A written description of such other billing cycle applicable to this project is available from the owner or the owner's designated agent (see owner's telephone number and address on cover sheet) and the owner or its designated agent shall provide this written description upon request.

The architectural design, conception and data presented herein represents an instrument of service provided in connection with the design build phased development agreement for the exclusive use of Cawley Architects. Any other use or release of these drawings may result in civil damages.

The site plan has been prepared without the benefit of a survey. Discrepancies may not be accurate or fully reflect all dimensions, data, etc., which may affect the design and usability of the site. All design shown here is strictly conceptual.

Project: SCW

La.01



- 1/2" RUBBER HOSE WITH #10 WIRE
- TWO 2" ROUND BY 8' LONG GREEN TREE STAKES BURY 3" BELOW GRADE
- 4" BASIN
- GRADE (PRIOR TO GRANITE)
- ROUGHEN SIDES OF PLANT PIT TO PREVENT GLAZING
- AGRIFORM TABLETS
- 2" DEPTH OF DECOMPOSED GRANITE. (SEE LEGEND FOR TYPE)

BACKFILL PLANT PIT WITH SOIL MIX NOTED IN SPECS.



DOUBLE STAKING DETAIL

NOT TO SCALE

NOTE: MULTI-TRUNKED TREES TO HAVE ALL MAJOR LEADERS STAKED

MULTI-TRUNK

DOUBLE-TRUNK

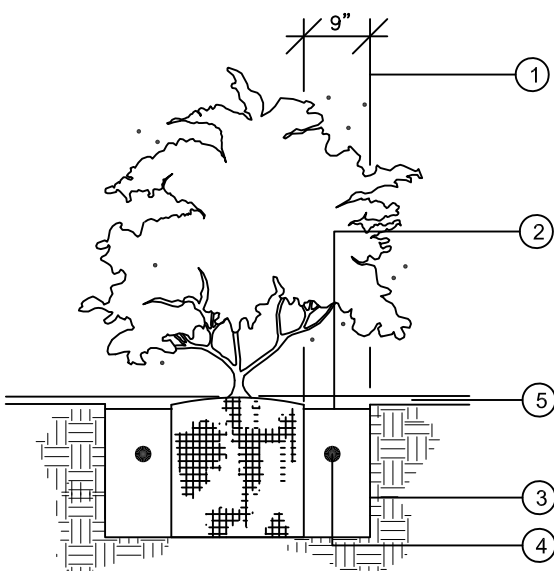
SINGLE-TRUNK

1. NOTCH TUBING LOOP WIRE THROUGH EXPOSED WIRE
2. #10 WIRE RUBBER COATED
3. 1/2" RUBBER HOSE



TREE GUYING DETAIL

NOT TO SCALE



1. MINIMUM DIMENSION FOR 5 GAL. PLANTS
- 1" BASIN
- ROUGHEN SIDES OF PLANT PIT TO PREVENT GLAZING
- AGRIFORM TABLETS SEE SPECS. FOR RATIO
5. 2" DEPTH OF DECOMPOSED GRANITE. (SEE LEGEND FOR TYPE)

BACKFILL PLANT PIT WITH SOIL MIX NOTED IN SPECS.



SHRUB PLANTING DETAIL

NOT TO SCALE

A NEW BUILDING PROJECT
BY:
**SUPERSTAR
EXPRESS CARWASH**

PROJECT: SUPERSTAR EXPRESS CARWASH
ADDRESS: 1239 S. Crismon Rd.
Mesa, Arizona
SCOPE: A NEW COMMERCIAL BUILDING
LEGAL DESCRIPTION: SEE CIVIL
ASSESSOR PARCEL #: 220-81-745
ZONING: LC (LIMITED COMMERCIAL)
SITE AREA: +/- 43,400 S.F. (+/- 0.99 ACRES)
BUILDING AREA: 4,508 S.F. GROSS
STORIES: SINGLE STORY
LOT COVERAGE: 10 %
LANDSCAPE AREA: 9,898 S.F.
LANDSCAPE COVERAGE: 23 %
OCCUPANCY: B - BUSINESS
CONSTRUCTION TYPE: V-B W/ A.F.E.S.
ALLOWABLE AREA: 36,000 S.F. (SINGLE STORY)
CLEAR HEIGHT: TBD
STRUCTURAL DEPTH: TBD
SLOPE DEPTH: 1/4" PER 1'-0" MIN.
SCREENING HEIGHT: 50" MAX.
BUILDING HEIGHT: 30' MAX ALLOWABLE

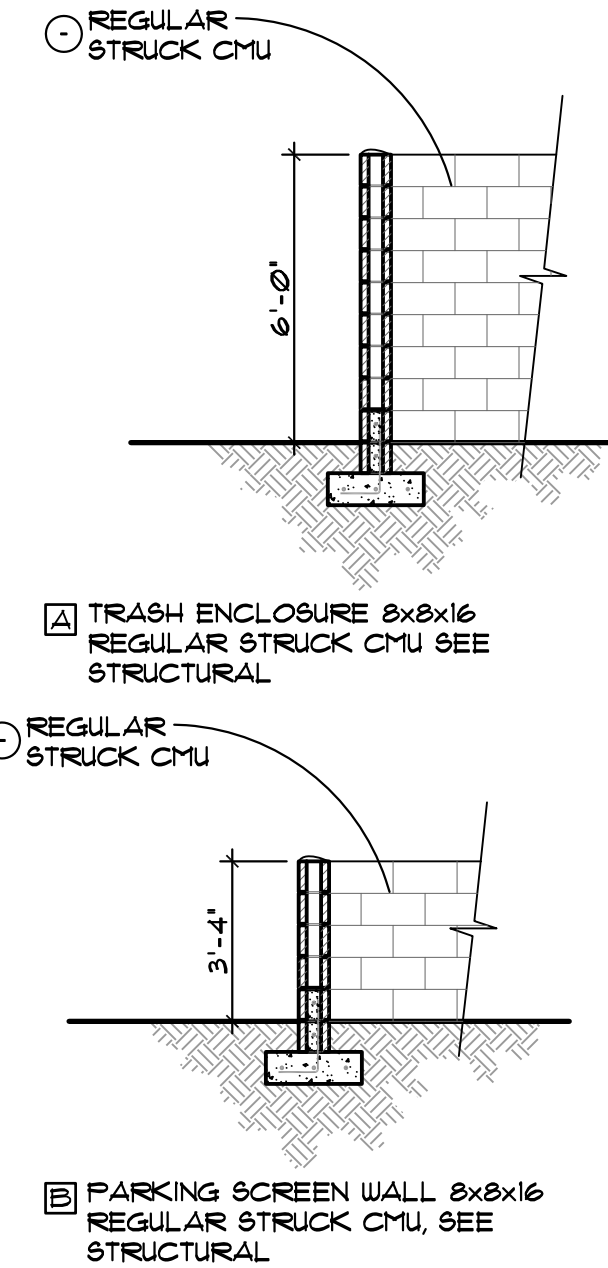
AREA CALC.	TOTALS
OFFICE / VENDING	250 S.F.
EQUIPMENT AREA	867 S.F.
WASH TUNNEL	3,021 S.F.
VACUUM RESTROOM	253 S.F.
TOTAL:	117 S.F.
	4,508 S.F.

REQUIRED PARKING CALCS			
OCCUPANCY	S.F.	FACTOR	TOTAL
B - CAR WASH	4,508 S.F.	1 / 375	13
TOTAL REQUIRED:			13
PARKING PROVIDED			
TOTAL REGULAR SPACES			11
TOTAL ACCESSIBLE SPACES			(1)
TOTAL COVERED SPACES (INCLUDING ACCESSIBLE SPACE)			23
TOTAL SPACES ON SITE			34
BICYCLE PARKING CALCS			
RATIO	REQUIRED	PROVIDED	
	0	0	

LEGEND

- PROPERTY LINE
- EASEMENT/SETBACK LINE
- CAR OVERHANG MEASURED FROM FACE OF CURB AS DIMENSIONED ON SITE PLAN.
- FIRE LANE FIRE LANE
- CURBS SHALL BE PAINTED RED, WITH MARKING THAT STATES 'FIRE LANE - NO PARKING' PER MESA FIRE DEPARTMENT DETAIL FPD 503.3
- 6' CURB
- SITE WALL
- SALT FINISH CONC. SIDEWALK
- PAINT STRIPING ON PAVING
- NEW FIRE HYDRANT
- EXISTING FIRE HYDRANT
- FIRE DEPT. CONNECTION
- ACCESSIBLE ROUTE/PATH OF TRAVEL
- FIRE RISER

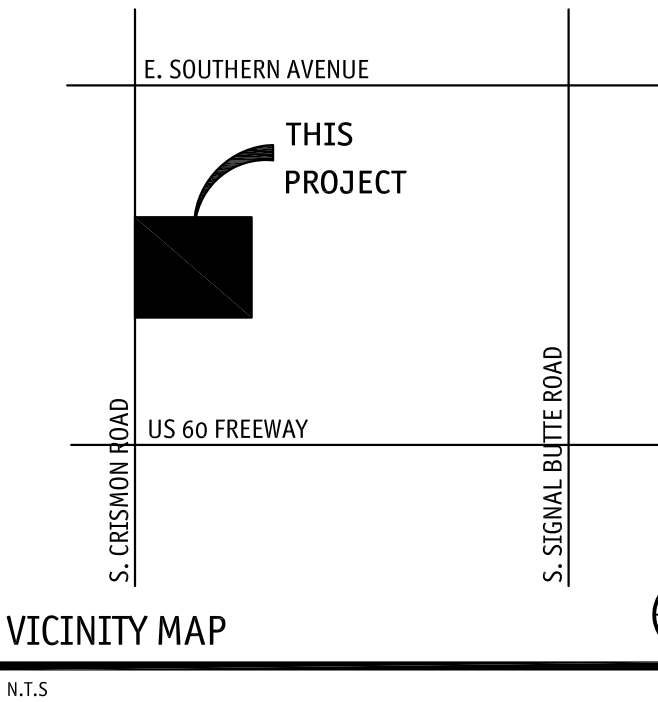
SITE SCREEN WALL SCHEDULE



SCREEN WALL NOTES

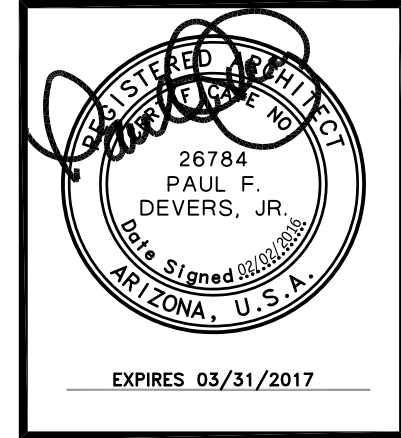
- PARKING SCREEN WALLS ARE TO BE A MINIMUM OF THREE FEET AND A MAXIMUM OF FOUR FEET ABOVE THE HIGHEST FINISHED GRADE OF THE PARKING AREA OR STREET CURB, WHICHEVER IS HIGHER.
- PROVIDE STEPPED FOOTINGS PER THE STRUCTURAL DRAWINGS AT SCREEN WALLS IN RETENTION AREAS AS REQUIRED BY THE CIVIL GRADING AND DRAINAGE PLANS.
- GROUT SOLID ALL CELLS BELOW GRADE.
- SEE STRUCTURAL DRAWINGS, SC-1, FOR ALL FOOTING AND REINFORCING INFORMATION.
- COORDINATE OPENINGS AND WEEPS IN BOTTOM OF WALLS WITH CIVIL DRAWINGS.

SITE PLAN



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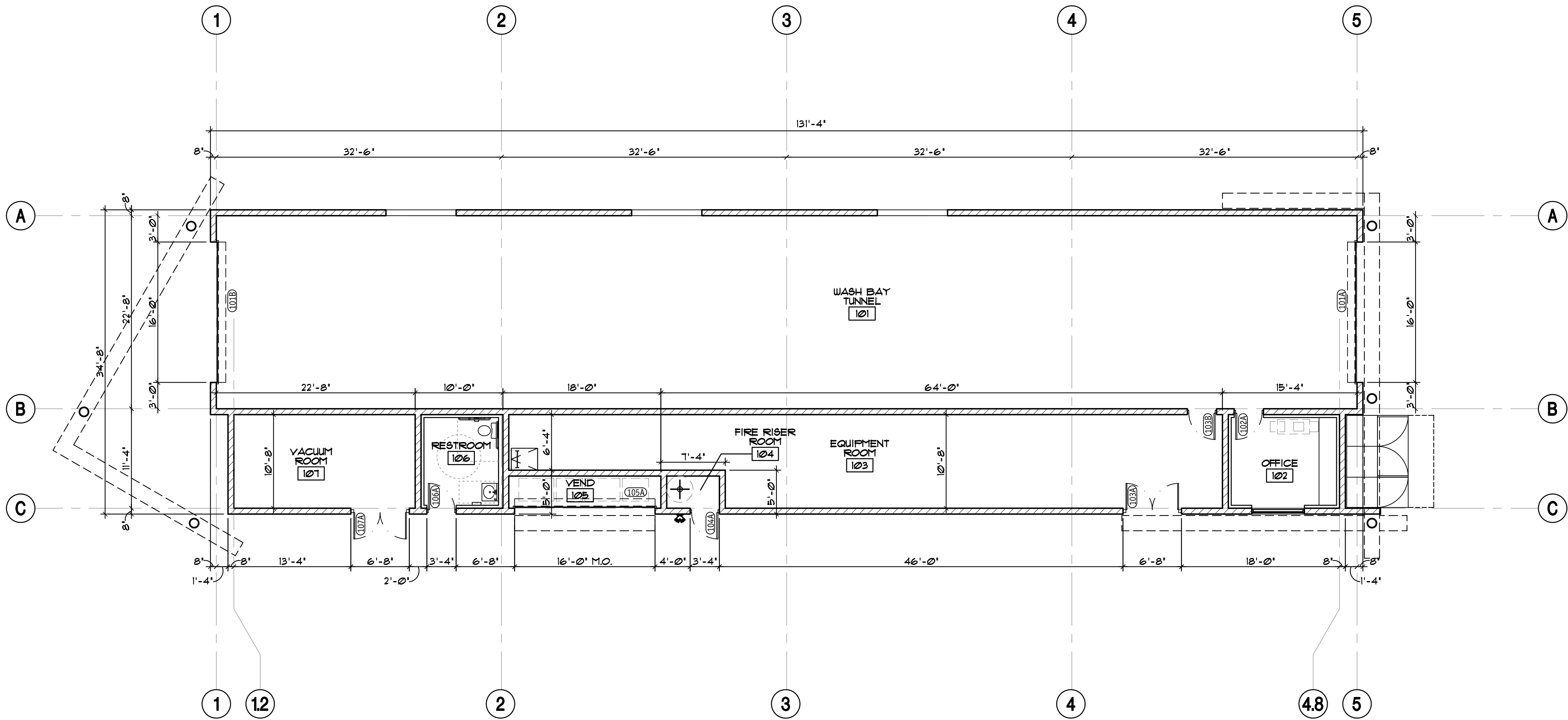
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CARWASH**

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GENERAL NOTES

- DIMENSIONS AS NOTED IN THE DRAWINGS ARE TO THE CENTERLINE OF INTERIOR PARTITION WALLS AND TO THE INTERIOR FACE OF EXTERIOR MASONRY, UNO.
- REFER TO MECHANICAL, PLUMBING, FIRE SUPPRESSION AND ELECTRICAL DRAWINGS FOR ALL EQUIPMENT LOCATIONS, DIMENSIONS, AND OTHER REQUIREMENTS.
- WHERE FLOORING MATERIALS CHANGE, THE CHANGE IS TO OCCUR AT THE CENTERLINE OF THE DOOR FLOAT FLOOR AS REQUIRED PRIOR TO INSTALLATION OF FLOOR COVERING.
- MAINTAIN A MINIMUM OF 48" CLEAR UNOBSTRUCTED EMERGENCY EXIT AISLE TO DESIGNATED EXITS.
- PROVIDE LEVEL FLOOR OR LANDING ON EACH SIDE OF ALL DOORS. THRESHOLD SHALL BE LESS THAN 1/2" HIGH & BEVELED 1:2.
- ALL WALLS/FURRING IN TOILET ROOMS, CONFERENCE ROOMS ARE TO HAVE R-11 BATT INSULATION/SOUND BATTS, UNO.
- SEE SSMA NON-STRUCTURAL/NON-BEARING INTERIOR STEEL STUDS & TRACKS DETAIL FOR LIMITING HEIGHTS, GAUGE, SPACING, SEE SHEET A2.0

DRAWING LEGEND

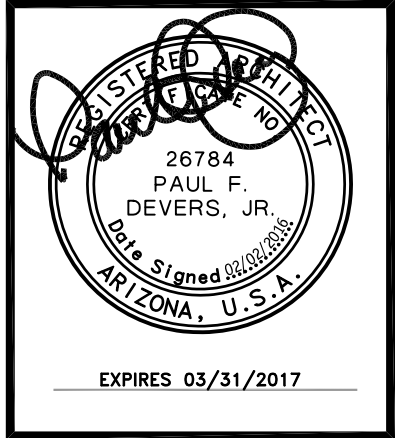
- CMU WALL SEE ELEVATIONS
- INTERIOR DEMISING WALL
- INTERIOR PARTITION
- DOOR NUMBER
- DOOR NUMBER
- WINDOW TYPE
- PARTITION TYPE KEY, SEE SHEET A2.0
- VERIFY OWNER REQUIREMENTS FOR CASEWORK & EQUIPMENT
- 2A 10BC FIRE EXTINGUISHER MOUNTED ON BRACKET @ 48" AFF
- 2A 10BC FIRE EXTINGUISHER RECESSED IN CABINET @ 48" AFF
- DETAIL NUMBER
- DETAIL KEY
- SHEET NUMBER
- SECTION NUMBER
- WALL SECTION
- SECTION NUMBER
- BUILDING SECTION
- GRID BUBBLE
- FURNITURE, EQUIPMENT, ETC. W/ DASHED LINES AS SHOWN ARE NOT IN CONTRACT AND ARE PROVIDED BY TENANT, UNO.



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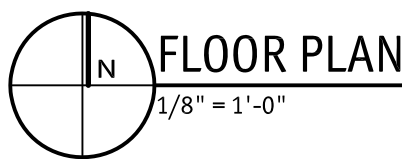
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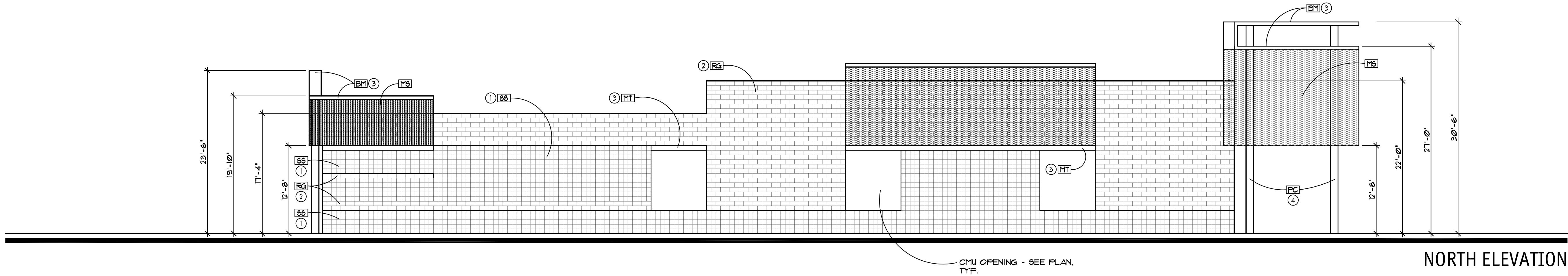
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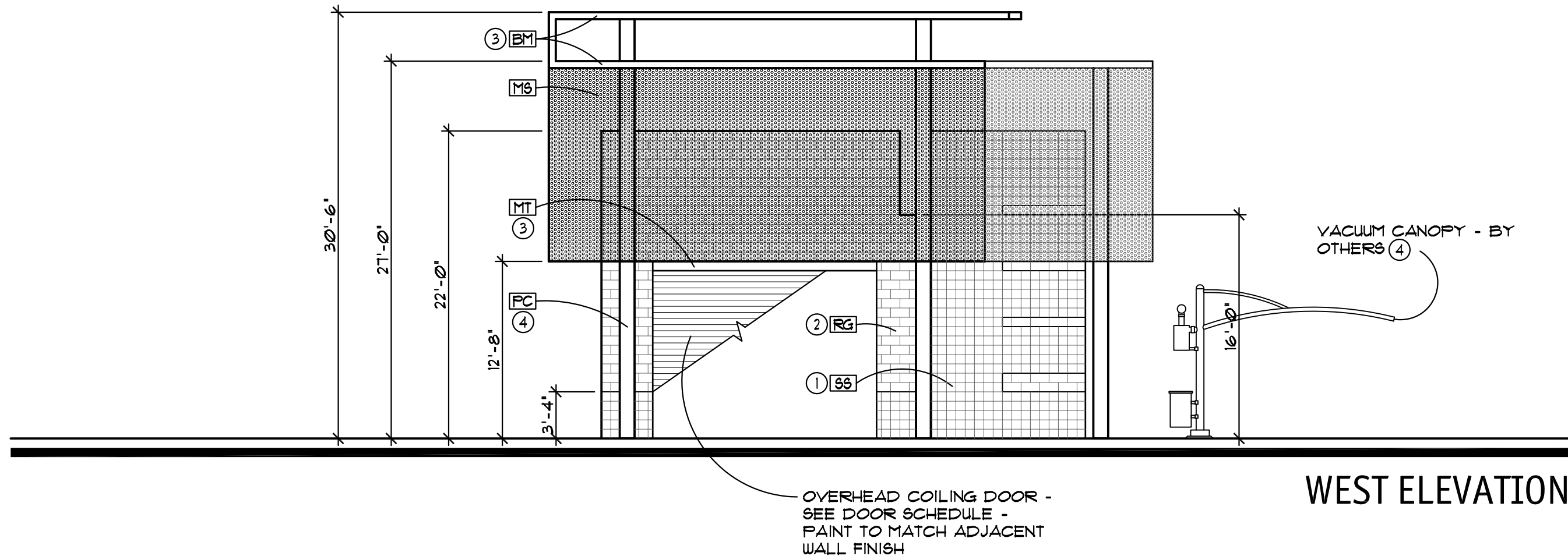
FLOOR PLAN

Project: SCW

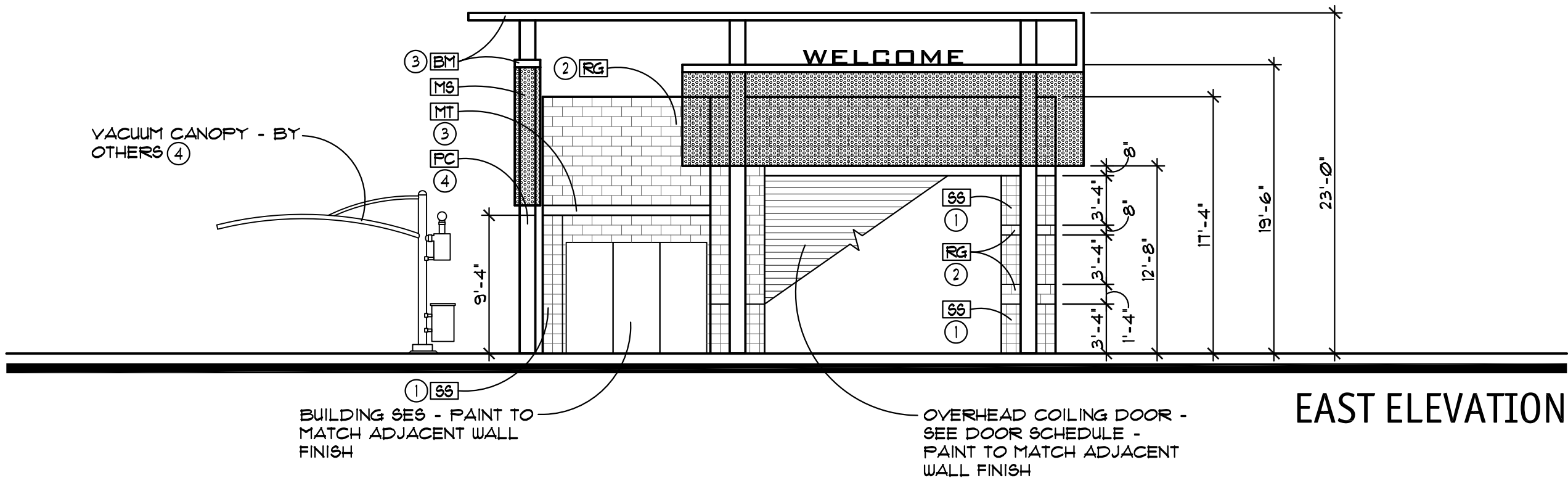
A2.1



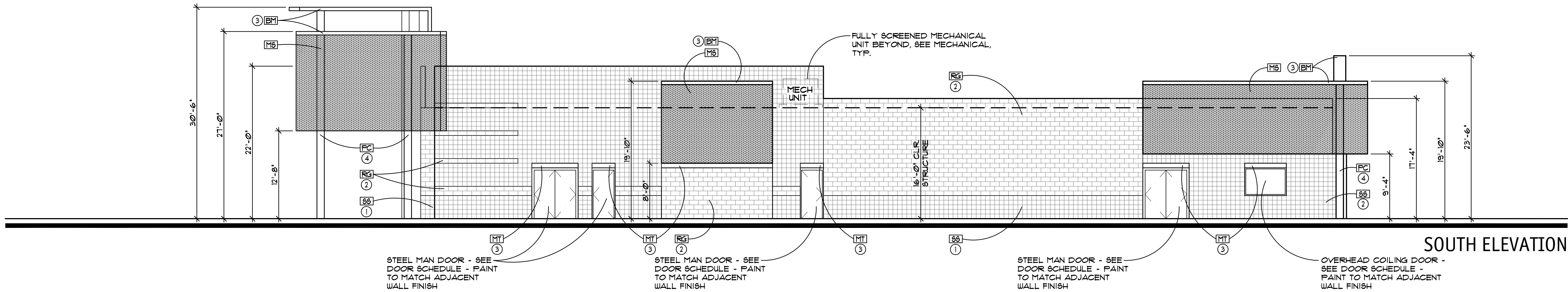
NORTH ELEVATION



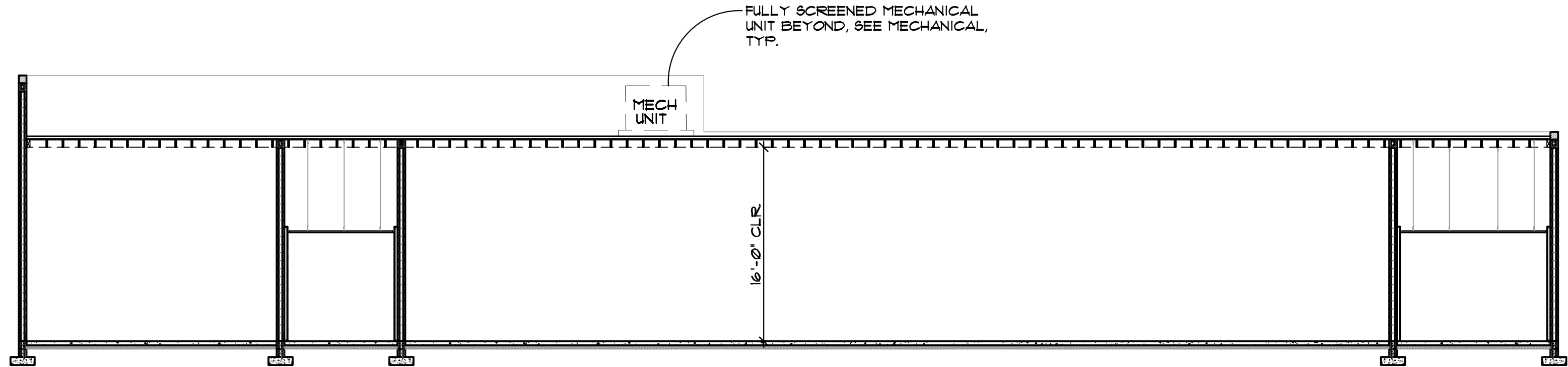
WEST ELEVATION



EAST ELEVATION



SOUTH ELEVATION



BUILDING SECTION

GENERAL NOTES

1. SEE STRUCTURAL FOR LINTEL INFORMATION.
2. SEE DOOR SCHEDULE FOR DOOR HEIGHTS.
3. SEE STRUCTURAL FOR CONTROL JOINTS.

MATERIAL SAMPLE APPROVAL

1. PRIOR TO ORDERING, G.C. TO PROVIDE INDIVIDUAL SAMPLES OF ALL BUILDING COLORS AND MATERIALS FOR REVIEW AND APPROVAL BY THE ARCHITECT AND OWNER.
2. ALL INDIVIDUAL SAMPLES TO BE PRESENTED AT ONE TIME, ONSITE IN SIZES OF NO LESS THAN 12" X 12".

MATERIAL KEY

MATERIAL	DESCRIPTION
RG	SMOOTH FACE REGULAR STRUCK 8 X 8 X 16 CMU
SS	SINGLE-SCORE 8 X 8 X 16 CMU
BM	BREAK METAL OVER METAL FRAME
PC	12-3/4" DIAMETER PAINTED STEEL PIPE COLUMN
MT	8" DEEP PAINTED TUBE STEEL HEADER
MS	METAL WALL PANELS - MCNICHOLS - PERFORATED 3/4" HOLE, 1/16" STAGGER PANELS, THICKNESS - ØØ356-INCH (2Ø GA), 1 1/2" PANEL HEIGHT

STOREFRONT / GLAZING KEY

MATERIAL	COLOR
FRAMES	MEDIUM BRONZE AB-4 ANODIZED ALUMINUM
GLAZING	1" INSULATED CLEAR REFLECTIVE

INSULATED GLAZING SYSTEM SPECIFICATION

OLDCASTLE - 1" INSULATED GLAZING SYSTEM
U-FACTOR: Ø23
SOLAR HEAT GAIN COEFFICIENT (SHGC): Ø23
OUTBOARD: 1/4" PPG SOLARBAN 10ØVT CLEAR (ØRF 12)
AIRSPACE: 1/2" (AIR FILL)
INBOARD: 1/4" CLEAR

1. 'S' AT WINDOW LOCATIONS INDICATES SPANDREL PANELS.
2. SEE WINDOW TYPES FOR LOCATIONS OF TEMPERED GLASS.

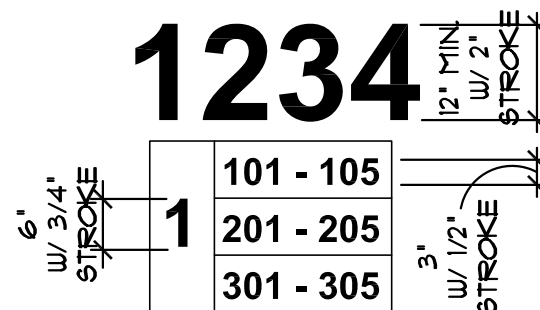
COLOR KEY

KEY	MANUF. - DUNN EDWARDS COLOR NAME
1	'COCOA' DEC155
2	'RINCON COVE' DEC151
3	'SUNFLOWER' DE5391
4	'HOT JAZZ' DEA1Ø1
5	'JET' DE6318

MATERIAL	KEY
BOLLARDS	4
VACUUM CANOPY	4
SES	1
TRANSFORMER	1

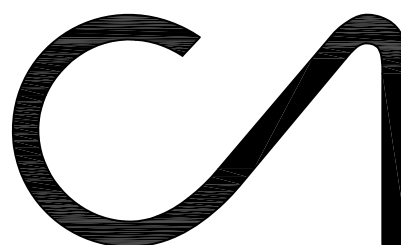
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MESA TYPICAL ADDRESS MARKER



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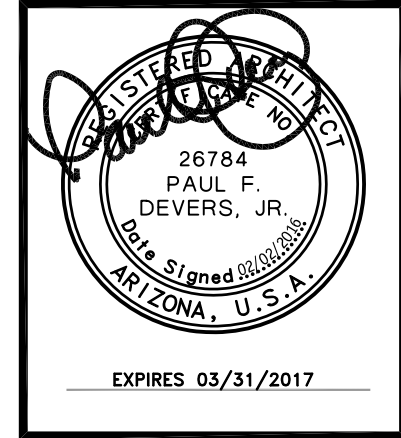
EXTERIOR ELEVATIONS



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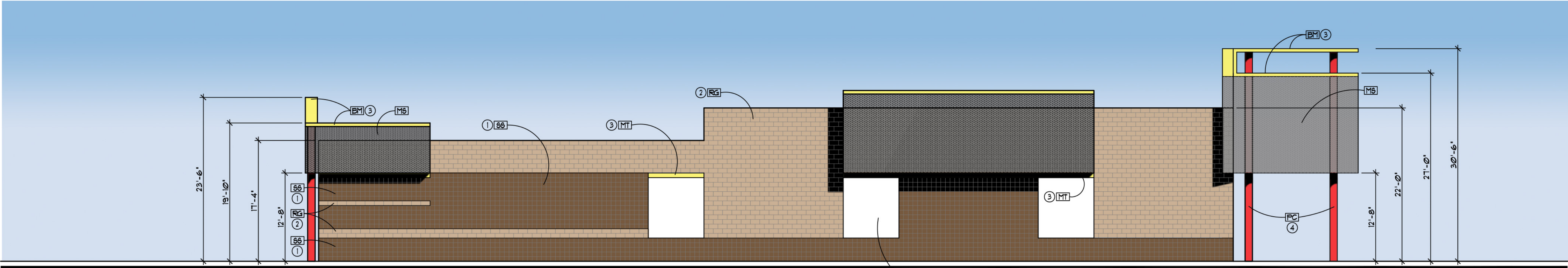


SUPERSTAR EXPRESS CARWASH

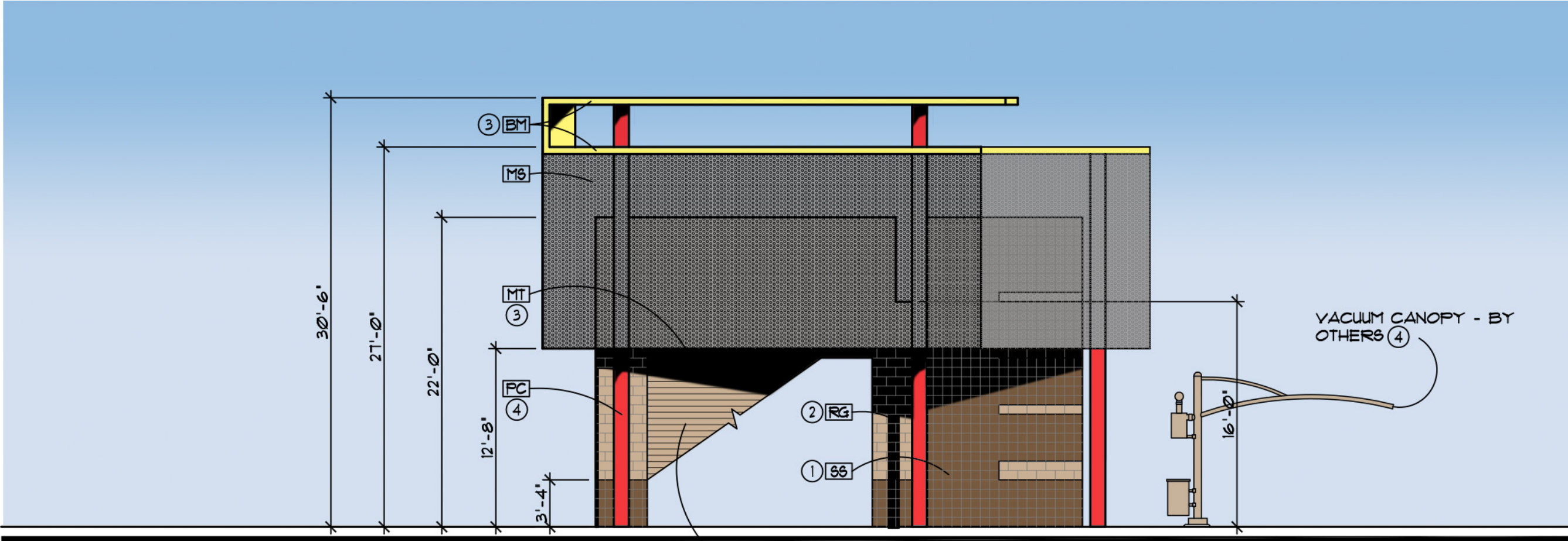
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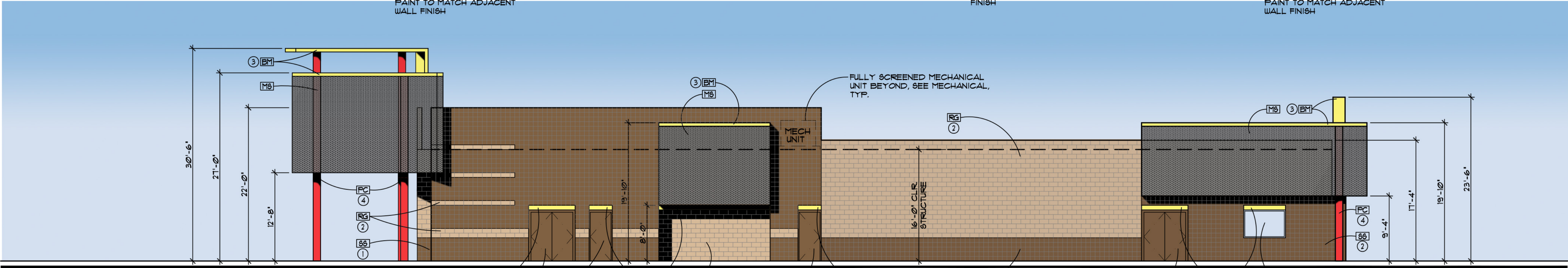
NORTH ELEVATION



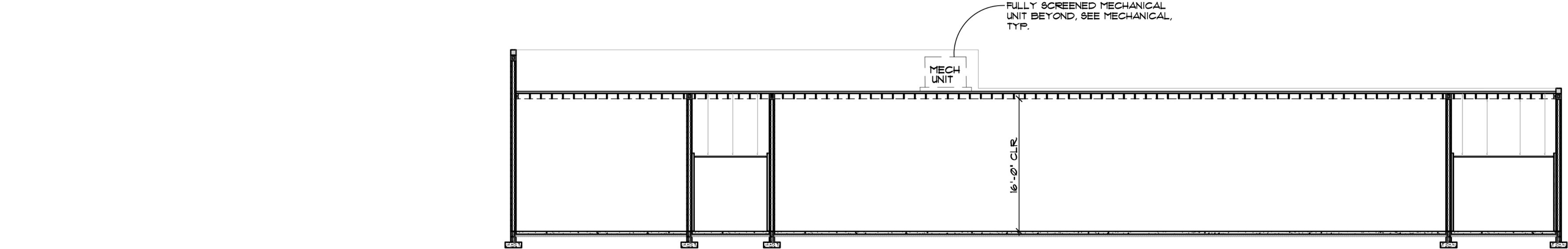
WEST ELEVATION



EAST ELEVATION



SOUTH ELEVATION



BUILDING SECTION

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(MS)	METAL WALL PANELS - MCNICHOLS - PERFORATED 3/4" HOLE, 1/16" STAGGER PANELS, THICKNESS - 0.0356-INCH (20 GA), 1 1/2" PANEL HEIGHT

STOREFRONT / GLAZING KEY

MATERIAL	COLOR
FRAMES	MEDIUM BRONZE AB-4 ANODIZED ALUMINUM
GLAZING	1" INSULATED CLEAR REFLECTIVE

INSULATED GLAZING SYSTEM SPECIFICATION
OLDCASTLE - 1" INSULATED GLAZING SYSTEM
U-FACTOR: 0.23
SOLAR HEAT GAIN COEFFICIENT (SHGC): 0.23
OUTBOARD: 1/4" PPG SOLARBAN 100VT CLEAR (SRF #2)
AIRSPACE: 1/2" (AIR FILL)
INBOARD: 1/4" CLEAR

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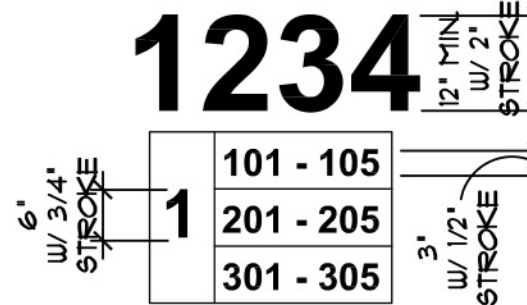
COLOR KEY

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(5)	'JET' DE6318

MATERIAL	KEY:
BOLLARDS	(4)
VACUUM CANOPY	(4)
SES	(1)
TRANSFORMER	(1)

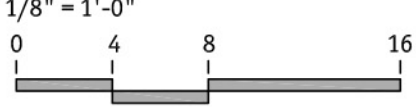
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MESA TYPICAL ADDRESS MARKER



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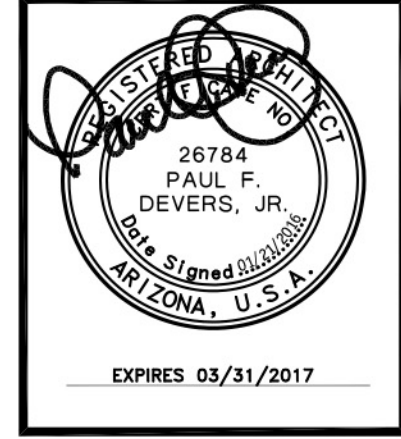
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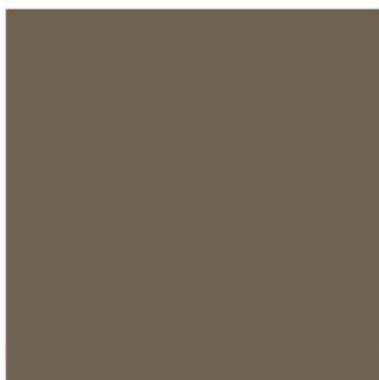
PRE-APP SUBMITTAL
11-02-2015
REVISED SITE PLAN
11-25-2015
DR SUBMITTAL
12-28-2015
REVISED SITE PLAN
01-21-2016
2nd DR SUBMITTAL
02-02-2016



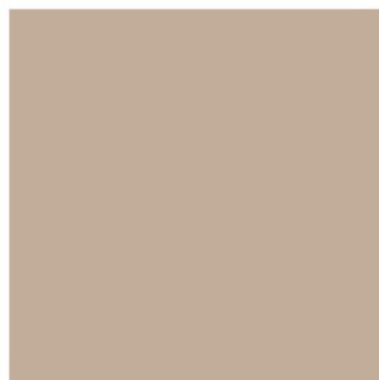
Superstar Express Carwash

This artist's rendering is for conceptual design and should not be referred to as a construction document

2016 . 02 . 02



① **Material:** Paint
 Manufacturer: Dunn Edwards
 Color: 'Cocoa'
 Color Number: DEC755



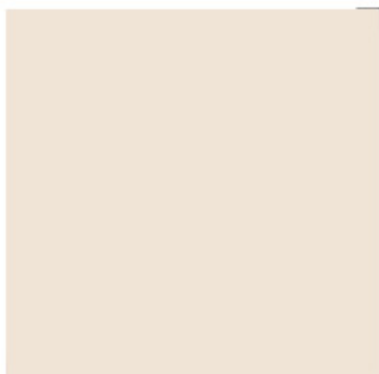
② **Material:** Paint
 Manufacturer: Dunn Edwards
 Color: 'Rincon Cove'
 Color Number: DEC757



③ **Material:** Paint
 Manufacturer: Dunn Edwards
 Color: 'Sunflower'
 Color Number: DE5391



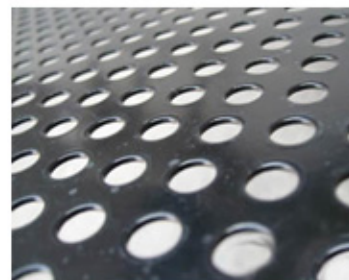
④ **Material:** Paint
 Manufacturer: Dunn Edwards
 Color: 'Hot Jazz'
 Color Number: DEA107



⑤ **Material:** Paint
 Manufacturer: Dunn Edwards
 Color: 'Salt Box'
 Color Number: DE6141



FI **Material:** Pre-Finished Storefront
 Manufacturer: Arcadia
 Color: 'Medium Bronze' # AB-4



MS **Material:** Metal Screen
 Manufacturer: McNichols
 Color: 'Stainless Steel'
 Pattern: Perforated 3/4" Hole,
 11/16" Stagger (N.T.S.)



GL **Material:** Insul. Glazing
 Manufacturer: PPG
 Color: Clear Reflective'
 Refer to A7 Building Elev.
 Sheets for Glass spec.

ADDITIONAL MATERIALS:

SC **Material:** Concrete Block
 Manufacturer: Superlite
 Size: 8"x8"x16" Single Score

RG **Material:** Concrete Block
 Manufacturer: Superlite
 Size: 8"x8"x16" Running Bond

BM **Material:** Break Metal
 Manufacturer: Fabricator
 Size: Varies,

PC **Material:** Steel Pipe
 Manufacturer: Fabricator
 Size: 12 3/4" OD

MT **Material:** Metal Tube
 Manufacturer: Fabricator
 Size: 8" x 8" x Length

SUPERSTAR EXPRESS CAR WASH

MESA, ARIZONA

See A7 Building Elevation Sheets for actual specifications and material locations

