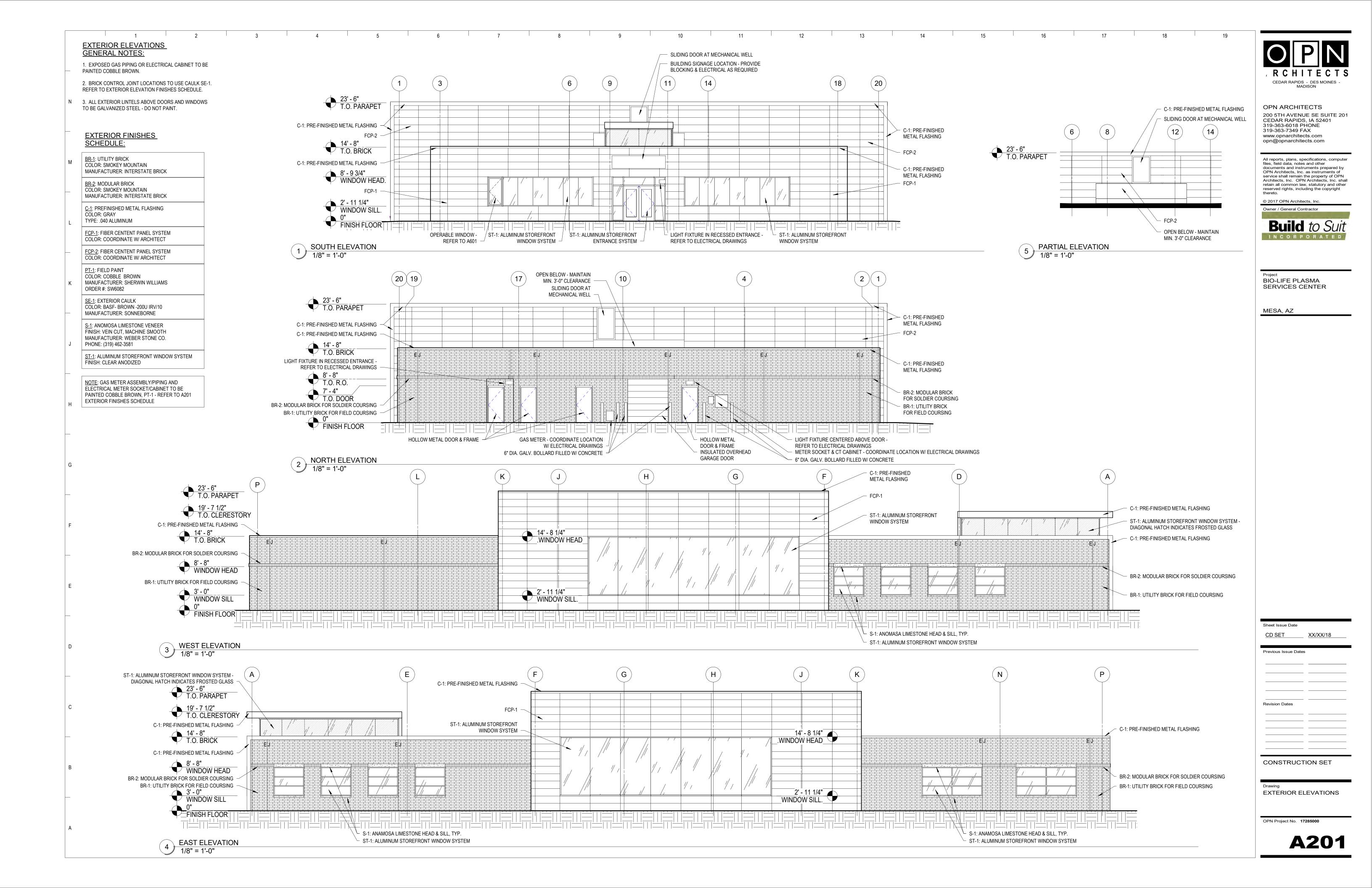




200 5TH AVENUE SE SUITE 201

documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall





LEGEND:

	<u>EXISTING</u>	<u>PROPOSED</u>
TRACT BOUNDARY PROPERTY LINE RIGHT-OF-WAY CENTERLINE CURB		
CURB & GUTTER		
FIRE SERVICE SANITARY SEWER LINE GAS LINE ELECTRIC LINE FIBER OPTICS		FS————————————————————————————————————
FIRE HYDRANT WATER VALVE FIRE DEPARTMENT CONNECTION	FDC _G	FH ⊕ ⊗ FDC →
BENCHMARK		
WATER METER		WM.
SEWER MANHOLE		\$
YARD DRAIN		
PAVEMENT ELEVATION	*P:60.43	†P:60.43
NATURAL GROUND ELEVATION CONCRETE ELEVATION TOP OF CURB ELEVATION GUTTER ELEVATION	*NG:60.43 *C:60.43 *TC:60.50 *G:60.00	*NG:60.43 *C:60.43 *TC:60.50 *G:60.00
FLOW ARROW		•
CONTOUR LINE – ADA ACCESS ROUTE CATCH BASIN UNDERGROUND RETENTION RISEI	20 	20
STORM DRAIN MANHOLE		©

(3) FINISH GRADE.

3' SCREEN WALL

ABBI	REVIATIONS:
APN	ASSESSOR PARCEL NUMBER.
B.C.H.H.	
B.O.B.	
B.C.F.	BRASS CAP FLUSH.
	CURB OPENING.
CTV	
	CONTROLLED VEHICULAR-ACCESS EASEMENT.
EM	
ET	ELECTRIC TRANSFORMER.
FH	
(M)	MEASURED.
PC	PROPERTY CORNER.
	POWER DISTRIBUTION EASEMENT.
P/L	PROPERTY LINE.
PUFE	
RAE	RECIPROCAL ACCESS EASEMENT.
(R)	RECORD.
RE	REFUSE ENCLOSURE.
R/W	RIGHT OF WAY.
R.L.S.	REGISTERED LAND SURVEYOR.
SMH	SEWER MANHOLE.
	STORM DRAIN MANHOLE.
	SEWER CLEANOUT.
TDE	TEMPORARY DRAINAGE EASEMENT.
TR	TELEPHONE RISER.

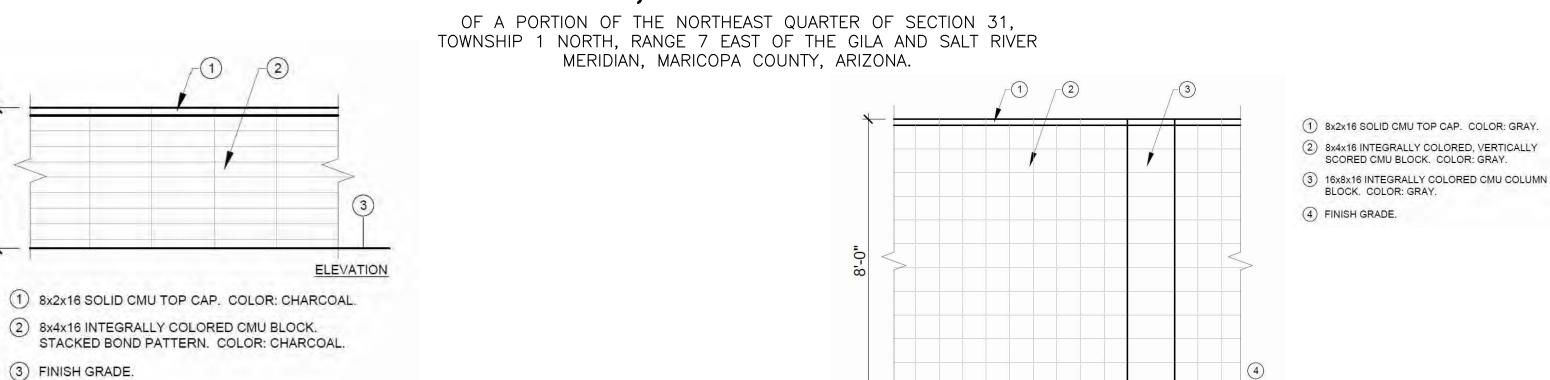
SEWER CLEANOUT

KEY NOTES:	
1 NEW 6" CONCRETE CURB	16 NEW FLAG POLE
2 NEW MOUNTABLE CURB	17 NEW MAIL BOX
3 RETENTION BASIN	18 NEW CATCH BASIN
4 NEW REFUSE ENCLOSURE	19 NEW STORMTECH RISER
5 NEW ASPHALT PAVEMENT	20 NEW SECONDARY ELECTRICAL SERVICE
6 NEW SIDEWALK	21 NEW GAS METER
7 NEW SIDEWALK RAMP	22 NEW STORM DRAIN MANHOLE
8 NEW ADA ACCESS ROUTE	NEW DOMESTICE/LANDSCAPE METERS WITH BACKFLOW ASSEMBLIES
9 NEW LANDSCAPE AREA	24 NEW MONUMENT SIGN
10 NEW SCREEN WALL, SEE DETAIL 1 ON THIS SHEET	25 NEW TRANSFORMER
11 NEW BIKE RACK AREA	NEW STORMTECH CHAMBER INSPECTION PORT
12 TRUCK ROUTE	27 NEW SEWER CLEANOUT
13 EXISTING CELL PHONE TOWER	28 NEW REMOTE FDC
14 LOADING AREA	29 NEW 6" MOUNTABLE CURB
15 NEW PERIMETER WALL, SEE DETAIL 2 ON THIS SHEET	30 NO PARKING VERIZON ACCESS EASEMENT

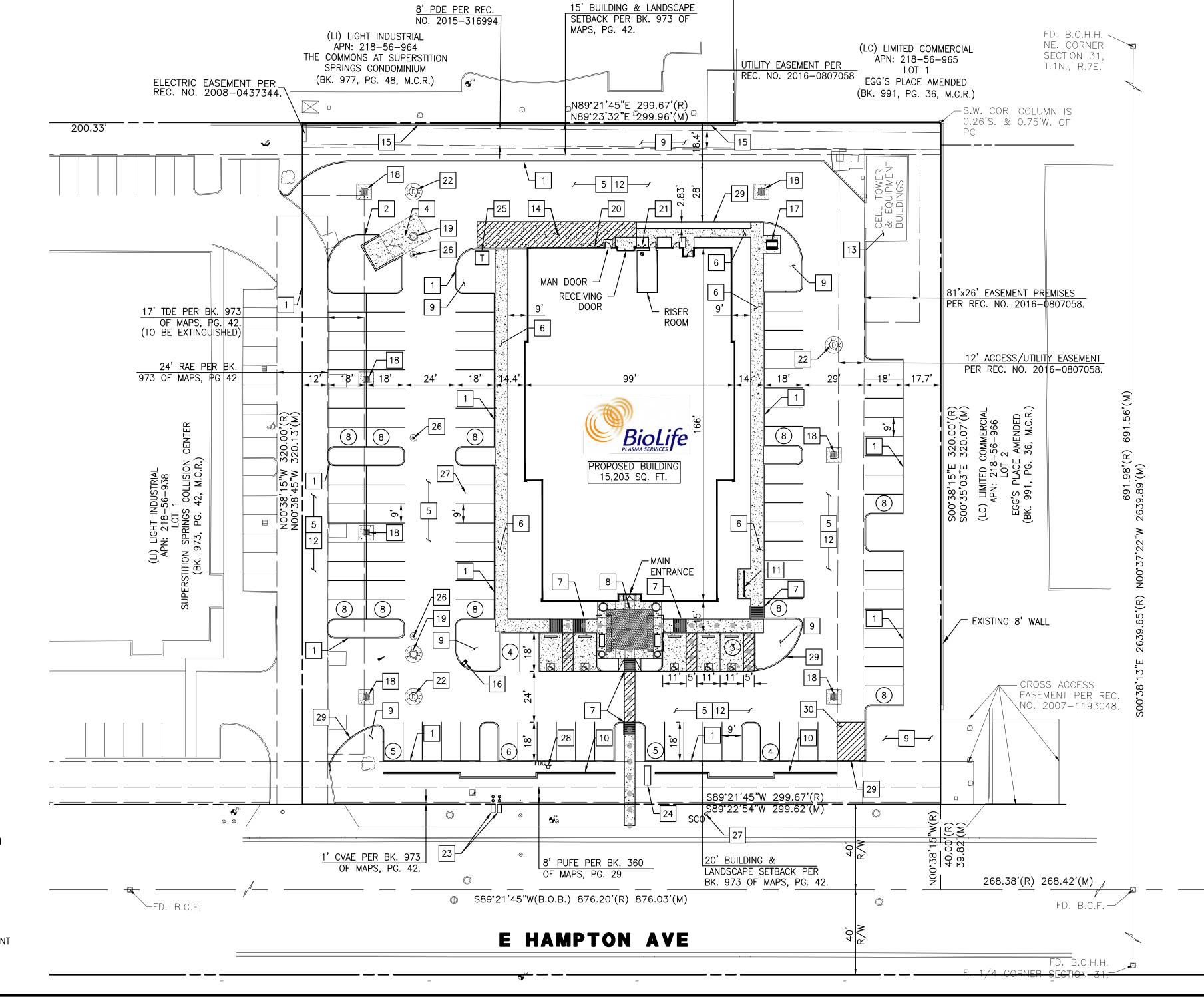
PRELIMINARY SITE PLAN

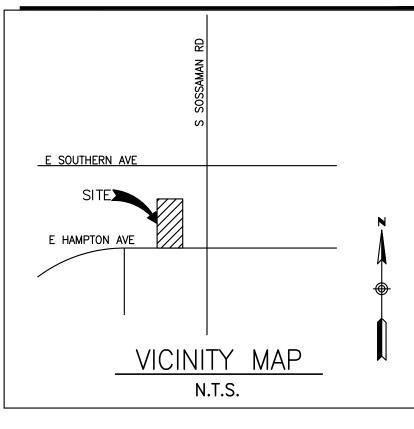
BIOLIFE PLASMA SERVICES CENTER

7538 E. HAMPTON AVE. MESA, ARIZONA 85203



REAR PERIMETER SCREEN WALL





OWNER/DEVELOPER:

BUILD TO SUIT, INC. 1805 STATE STREET, SUITE 101 BETTENDORF, IA 52722 CONTACT: JASON HARDER PHONE: (563) 355-2022

ENGINEER:

RICK ENGINEERING COMPANY 6150 N 16TH STREET PHOENIX, ARIZONA 85016 CONTACT: JOSEPH M. CIRONE, PE PHONE: (602) 957-3350 EMAIL: JCIRÒNE@RICKENGINEERING.COM

ARCHITECT:

OPN ARCHITECTS 200 5TH AVE. SE #201 CEDAR RAPIDS, IA 52401 CONTACT: DOUG ELSBURY PHONE: (319) 363-6018

APN:

218-56-939

AREA:

95,963± SQ. FT. OR 2.203 ACRES (M)

LEGAL DESCRIPTION:

BEING LOT 2 SHOWN ON THE FINAL PLAT OF SUPERSTITION SPRINGS COLLISION CENTER, RECORDED 02/19/2008 IN BOOK 973, PAGE 42 OF THE MÁRICÓPA COUNTY RECORDS.

BENCHMARK

BRASS TAG ON TOP OF CURB IN THE NORTHEAST CORNER OF THE INTERSECTION OF SOSSAMAN ROAD AND SOUTHERN AVENUE. ELEVATION: 1408.69 NAVD88 (CITY OF MESA DATUM)

PROJECT DATA:			
PROPOSED USE	PLASMA DONATION FACILITY		
ZONING	LI-PAD (LIGHT INDUSTRIAL PAD)		
GROSS LOT AREA	107,881 SQ. FT.		
NET LOT AREA	95,894 SQ. FT.		
LOT COVERAGE REQUIRED	LESS THAN 60% OF NET LOT AREA		
LOT COVERAGE PROVIDED	15.9%		
BUILDING AREA	15,203 SQ. FT.		
BUILDING OCCUPANCY	В		
CONSTRUCTION TYPE	IIB - SPRINKLERED		
PARKING DATA:			
PARKING REQUIRED	77 SPACES (1 SPACE/200 SF)		
PARKING PROVIDED*	107 SPACES (INCLUDING 5 ACCESSIBLE) (1 SPACE/142 SF)		
ACCESSIBLE PARKING REQUIRED	5 SPACES		
ACCESSIBLE PARKING PROVIDED	5 SPACES		
BICYCLE PARKING PROVIDED	9 SPACES		

*ADMINISTRATIVE USE PERMIT REQUIRED, PROJECT REQUIRES MINIMUM OF 77 PARKING SPACES. PROJECT SHALL HAVE MAXIMUM OF 125% OF THE MINIMUM REQUIRED (97 SPACES). PROJECT PROPOSES 139% OF MINIMUM REQUIRED (107 SPACES).

GRAPHIC SCALE: 1"=30'

BUILD	DING & LANDSCAPE SETBACKS*	
NORTH	15'	
EAST	0'	
WEST	0'	
SOUTH	20'	
*PER BK	. 973 OF MAPS, PG. 42	ŀ
		l
		-

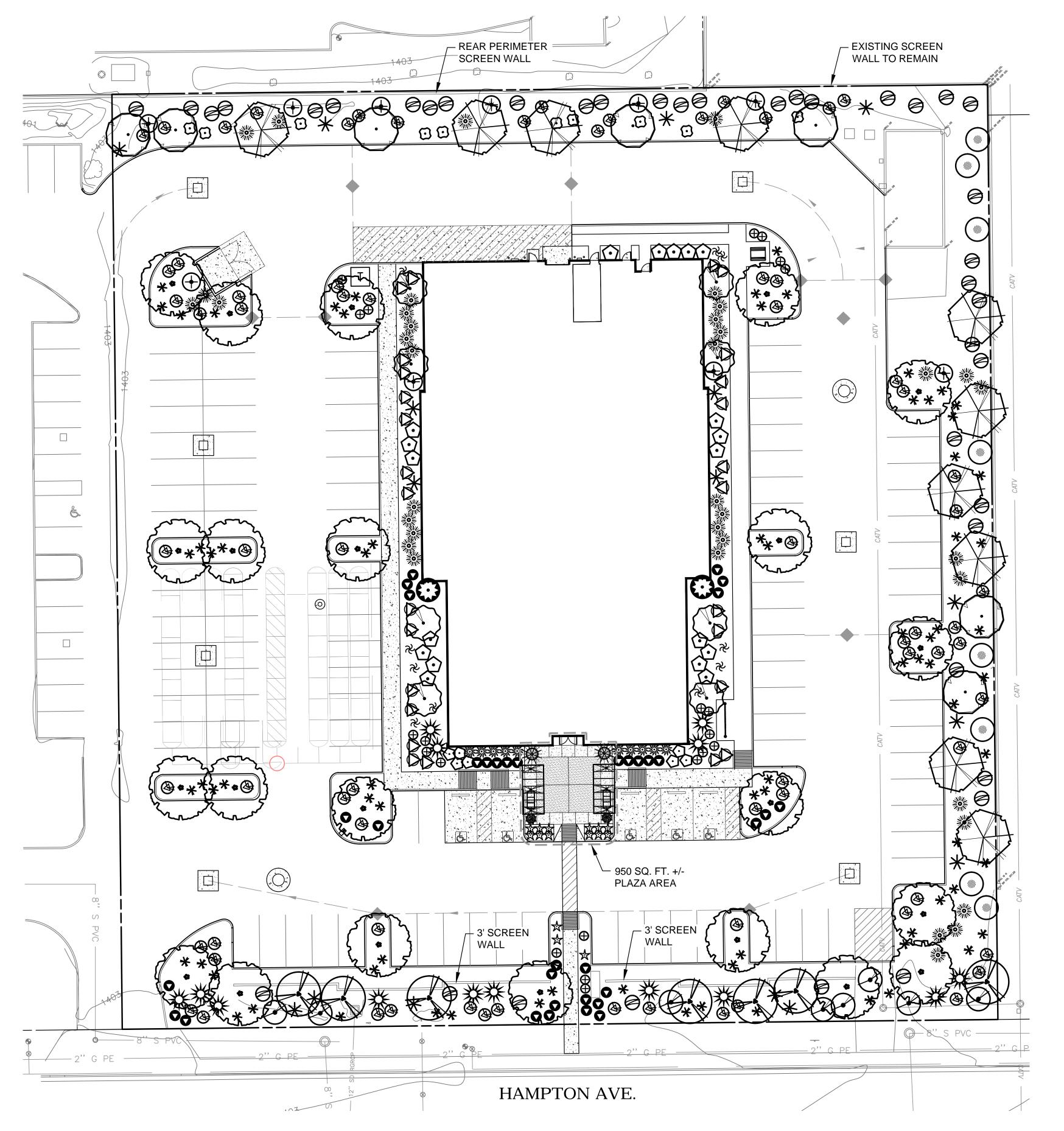


6150 NORTH 16TH STREET PHOENIX. AZ 85016 602.957.3350 (FAX)602.285.2396 Tucson - San Diego - Riverside - Orange Sacramento - San Luis Obispo - Denve rickengineering.con 40968 Expires: 6-30-2019

Contact Arizona 811 at least two full working days before you begin excava

AND STARE, IDE. Call 811 or click Arizona811.com JANUARY 11, 2018 DATE:

DRAWN: MSG DESIGNED: 4883



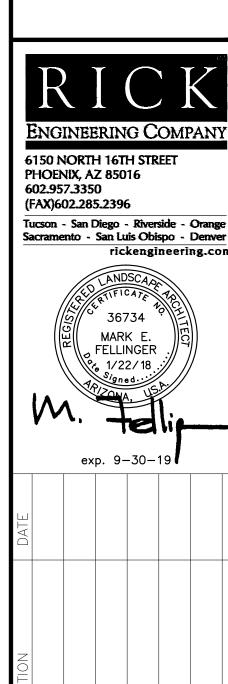
LANDSCAPE CA	ALCULATIONS

LANDSCAPE AREA	TREES	TREES	SHRUBS	SHRUBS
	REQ'D.	PROVIDED	REQ'D.	PROVIDED
STREETSCAPE (300 LF)	12	12	48	48+
NORTH PROP. LINE (300 LF)	9	9	60	60
EAST PROP. LINE (300 LF)	9	9	60	60
PARKING ISLANDS	1 EA.	1 EA.	3 EA.	3 EA. MIN.

SYMBOL	BOTANICAL NAME COMMON NAME	QTY.	SIZE
TREES			
	ACACIA SCHAFFNERI TWISTED ACACIA	10	15 GAL.
	ACACIA WILLARDIANA	7	15 GAL.
	PALO BLANCO CAESALPINIA MEXICANA MEXICAN BIRD OF PARADISE	8	24" BOX
*	PARKINSONIA 'DESERT MUSEUM' DESERT MUSEUM PALO VERDE	22	36" BOX
	SOPHORA SECUNDIFLORA TEXAS MOUNTAIN LAUREL	7	24" BOX
SHRUBS	AND ACCENTS		
ઋ	AGAVE GEMINIFLORA TWIN-FLOWERED AGAVE	10	5 GAL.
*	ALOE FEROX CAPE ALOE	2	15 GAL.
*	ALOE 'BLUE ELF' BLUE ELF ALOE	15	5 GAL.
\oplus	BERLANDIERA LYRATA CHOCOLATE FLOWER	21	5 GAL.
\Diamond	BULBINE FRUTESCENS BULBINE	27	5 GAL.
	CALLIANDRA CALIFORNICA BAJA FAIRY DUSTER	38	5 GAL.
(3)	DALEA FRUTESCENS BLACK DALEA	74	5 GAL.
	DALEA GREGGII TRAILING INDIGO BUSH	8	5 GAL.
*	DASYILIRION LONGISSIMA TOOTHLESS SOTOL	2	15 GAL.
*	DASYILIRION WHEELERI DESERT SPOON	16	5 GAL.
	DODONAEA VISCOSA HOPSEED BUSH	8	5 GAL.
0	EUPHORBIA RIGIDA GOPHER PLANT	10	5 GAL.
*	HESPERALOE FUNIFERA GIANT HESPERALOE	14	5 GAL.
*	HESPERALOE PARVIFLORA RED YUCCA	77	5 GAL.
•	LANTANA MONTEVIDENSIS TRAILING LANTANA	35	1 GAL.
\bigcirc	LEUCOPHYLLUM 'GREENCLOUD' GREENCLOUD TEXAS RANGER	19	5 GAL.
0	LEUCOPHYLLUM LAEVIGATUM CHIHUAHUAN RAIN SAGE	40	5 GAL.
**	PEDILANTHUS MACROCARPA SLIPPER PLANT	10	5 GAL.
\oplus	SALVIA CLEVELANDII CLEVELAND'S SAGE	10	5 GAL.
\bigcirc	SALVIA GREGGI AUTUMN SAGE	7	5 GAL.
\odot	TECOMA STANS MEXICAN YELLOW BELLS	2	5 GAL.

INORGANIC GROUNDCOVER

A MINIMUM 2" DEPTH LAYER OF DECORATIVE ROCK SHALL BE PLACED IN ALL LANDSCAPE AREAS.

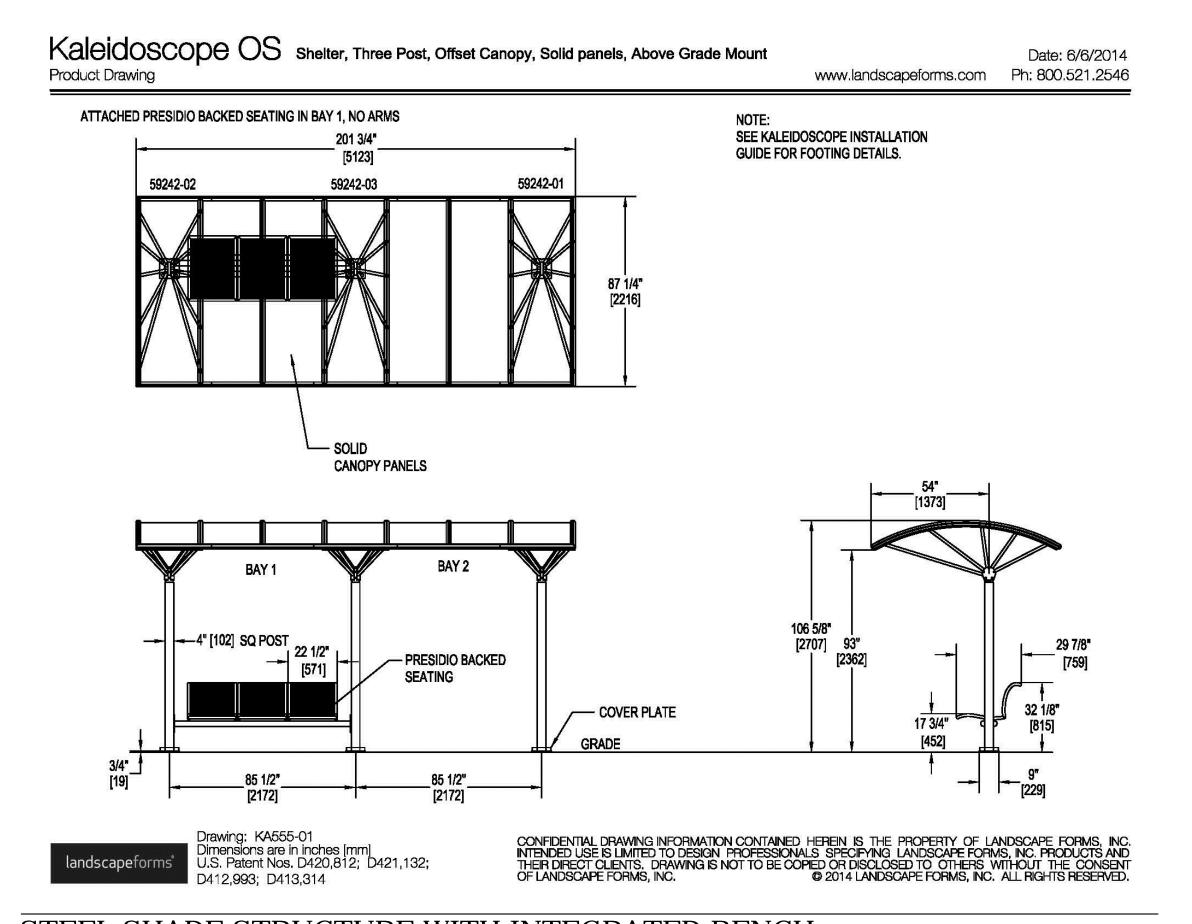


Contact Arizona 811 at least two full working days before you begin excavation Call 811 or click Arizona811.com

JANUARY 22, 2018

SHT 1 OF 2

MEXICAN YELLOW BELLS



INTEGRALLY COLORED CONCRETE WITH LIGHT EXPOSED AGGREGATE FINISH AND SCORING AS SHOWN. DAVIS COLORS OMAHA TAN OR EQUAL.

48° INTEGRALLY COLORED CONCRETE BAND WITH SCORING AS SHOWN. DAVIS COLORS 'PEWTER' OR EQUAL. MEDIUM BROOM FINISH.

48° +/- DIAM. CONCRETE PLANTER, TYP.

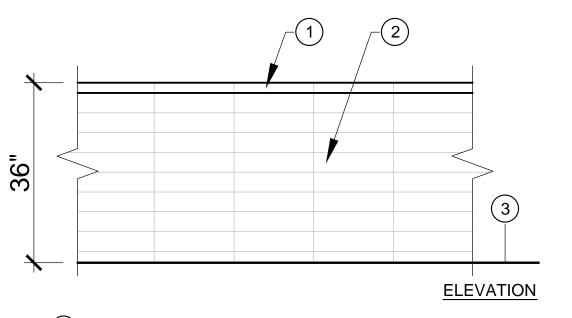
STEEL SHADE STRUCTURE WITH INTEGRATED BENCH, TYP. LANDSCAPE FORMS KALEIDOSCOPE OS. COLOR: STONE.

36° +/- DIAM. CONCRETE PLANTER, TYP.

ENTRY PLAZA HARDSCAPE PLAN

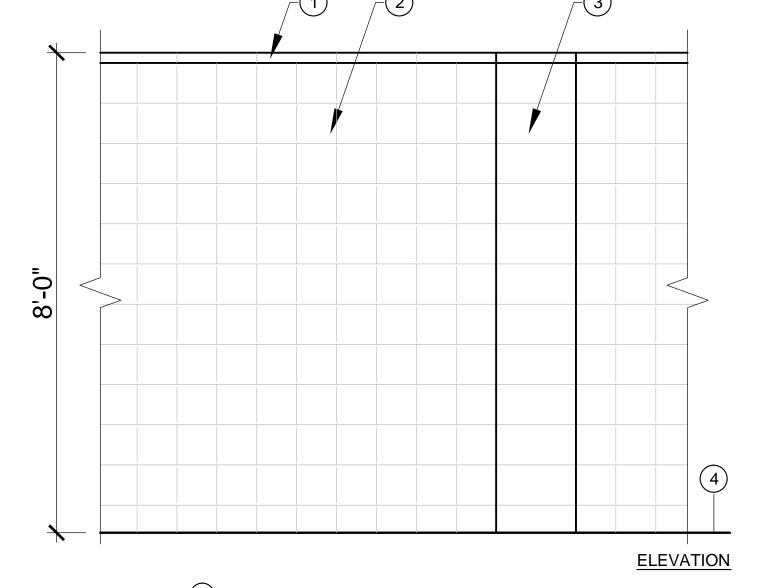
SCALE: 1/8° = 1'-0'

STEEL SHADE STRUCTURE WITH INTEGRATED BENCH



- 1) 8x2x16 SOLID CMU TOP CAP. COLOR: CHARCOAL.
- 2 8x4x16 INTEGRALLY COLORED CMU BLOCK. STACKED BOND PATTERN. COLOR: CHARCOAL.
- (3) FINISH GRADE.





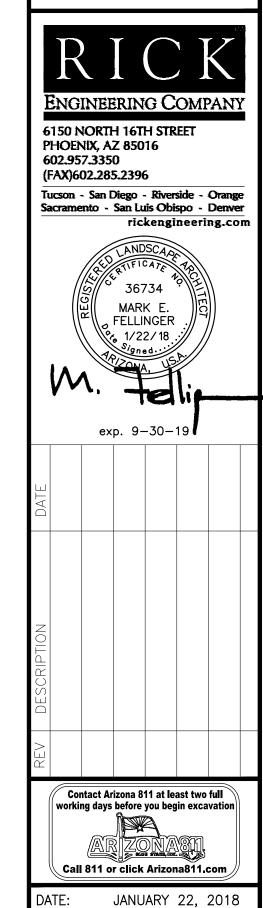
- 1) 8x2x16 SOLID CMU TOP CAP. COLOR: GRAY.
- 2 8x4x16 INTEGRALLY COLORED, VERTICALLY SCORED CMU BLOCK. COLOR: GRAY.
- 3 16x8x16 INTEGRALLY COLORED CMU COLUMN BLOCK. COLOR: GRAY.
- (4) FINISH GRADE.





MINARY

MESA, ARIZONA
PRELIMINA



DESIGNED:

SHT 2 OF 2

ON BOTH SIDES OF WALL AND ARE INTENDED TO ALLOW

CUSTOM CASEWORK TO BE INSTALLED TIGHT TO WALL.

7 1/8" = 1'-0"

NOTE: SEE A121 REFLECTED CEILING PLAN FOR CONTROL JOINT LOCATIONS.

NOTE: REFER TO STRUCTURAL DRAWINGS FOR FLOOR SLAB CONTROL JOINT LOCATIONS, AND REFER TO CONCRETE SEALANT FINISH SPECIFICATION ON A602 FOR CONTROL JOINT FILLER

GENERAL NOTES

1. ALL INTERIOR PARTITIONS ARE WALL TYPE A1 UNLESS NOTED OTHERWISE. SEE SHEET A001 FOR WALL TYPE DESIGNATIONS.

2. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.

3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL

4. REFER TO ENLARGED PLANS FOR ADDITIONAL WALL TYPE LOCATIONS, DIMENSIONS AND

5. REFER TO SHEETS A151 AND A161 FOR ADDITIONAL CASEWORK GROMMET LOCATIONS.

KEYNOTE LEGEND

01 CASEWORK - REFER TO INTERIOR ELEVATIONS 02 COAT HOOK RAIL LOCATION - SMEDBO 12" BESLAGS BODEN HOOK SME-B1054, TYP. MOUNT COAT RAIL @ 5'-1" O.C. A.F.F. FOR ALL LOCATIONS - REFER TO DETAIL 4/A131 OWNER PROVIDED TV - CONTRACTOR TO INSTALL TV ON CENTER OF CASEWORK. VERIFY HEIGHT W/ ARCHITECT

04 CARD READER - PROVIDE CONDUIT & JUNCTION BOX ONLY. REFER TO ELECTRICAL

05 TWO LEVEL ELECTRIC WATER COOLER -REFER TO PLUMBING DRAWINGS 06 OWNER PROVIDED TV CENTERED ON WALL -CONTRACTOR TO INSTALL TV 6'-0" A.F.F.

CABINET 46" A.F.F. 08 RECESSED AED WALL CABINET PROVIDED BY OWNER - FINISH RECESSED OPENING W/ DRYWALL CORNER BEAD, MUD, SAND & PAINT. MOUNT HANDLE 48" A.F.F.

09 INSTALL 'AC' PLYWOOD ON WALL OF TELE/DATA/ELEC ROOM - COORDINATE HEIGHT & LOCATION W/ TELE/DATA/ELEC CONTRACTOR

CONTROLS - REFER TO MECHANICAL 11 CONCRETE STOOP 14 RECESSED FLOOR BOX - TO BE INSTALLED

PARALELL W/ LONG DIRECTION OF ROOM 15 FURNITURE SYSTEM BY OWNER 16 FREEZER UNIT W/ RECESSED SLAB - REFER TO

17 MOP SINK W/ MOP RAIL & NRP 8'-0" A.F.F., ALL 18 70 DEGREE SHIPS LADDER TO ROOF HATCH KEYPAD, WIRELESS REMOTE & HOLDER FOR BATTERY OPERATED ROOF HATCH - MOUNT

AT SWITCH HEIGHT 20 WALL MOUNTED FIRE EXTINGUISHER 21 VENDING MACHINE PROVIDED & INSTALLED BY

-(10) 22 6" DIA. GALV. BOLLARDS FILLED W/ CONCRETE - PRIME THEN COVER W/ BLACK PLASTIC **BOLLARD COVERS**

> WALL SURFACE. REFER TO A161 & MECHANICAL 24 FLOOR DRAIN FOR CONDENSATE LINES -REFER TO MECHANICAL. VERIFY LOCATION W/

MECHANICAL

25 EQUIPMENT PROVIDED BY OWNER 26 FREEZER CHART RECORDER BY OTHERS -REFER TO A161 & FREEZER DRAWINGS

FREEZER DRAWINGS 28 ADJUSTABLE HEIGHT TABLE PROVIDED BY OWNER

29 EXPOSED COLUMNS - PAINT PT-1 30 APPLY PERMANENT SAFETYTAC YELLOW TAPE LINE - OFFSET 4" FROM PERIMETER WALL AT RECEIVING AREA WHERE INDICATED ON

LINE - OFFSET 4" FROM PERIMETER WALL AT BIOHAZARD AREA WHERE INDICATED ON 32 PROVIDE INTERIOR GYP. BD. CONTROL JOINT

ON WALL ABOVE - ALIGN W/ HINGE SIDE OF 34 4" CONCRETE HOUSEKEEPING PAD -COORDINATE SIZE & LOCATION W/ EQUIPMENT 35 FREEZER ENHANCED MONITORING SYSTEM -

REFER TO A161 & FREEZER DRAWINGS 36 ALIGN F.O. GWB W/ WINDOW JAMB 37 ROOF DRAIN - REFER TO PLUMBING 38 APPLY PERMANENT SAFETYTAC YELLOW TAPE LINE AS INDICATED 39 METER SOCKET & CT CABINET - COORDINATE

LOCATION W/ ELECTRICAL DRAWINGS 40 GAS METER - COORDINATE LOCATION W/ MECHANICAL DRAWINGS 41 GROMMET IN COUNTER TOP TYP. REFER TO

INFORMATION 43 YELLOW TAPE LINE INDICATING 36" CLEARANCE AREA IN FRONT OF ELECTRICAL

FLOOR PLAN LEGEND

INSULATION/ SOUND BATT FREEZER UNIT



OPN ARCHITECTS 200 5TH AVENUE SE SUITE 201 CEDAR RAPIDS, IA 52401 319-363-6018 PHONE 319-363-7349 FAX www.opnarchitects.com opn@opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright

© 2017 OPN Architects, Inc. Owner / General Contractor

Build to Suit INCORPORATED

BIO-LIFE PLASMA SERVICES CENTER

MESA, AZ

Sheet Issue Date CD SET XX/XX/18 Previous Issue Dates

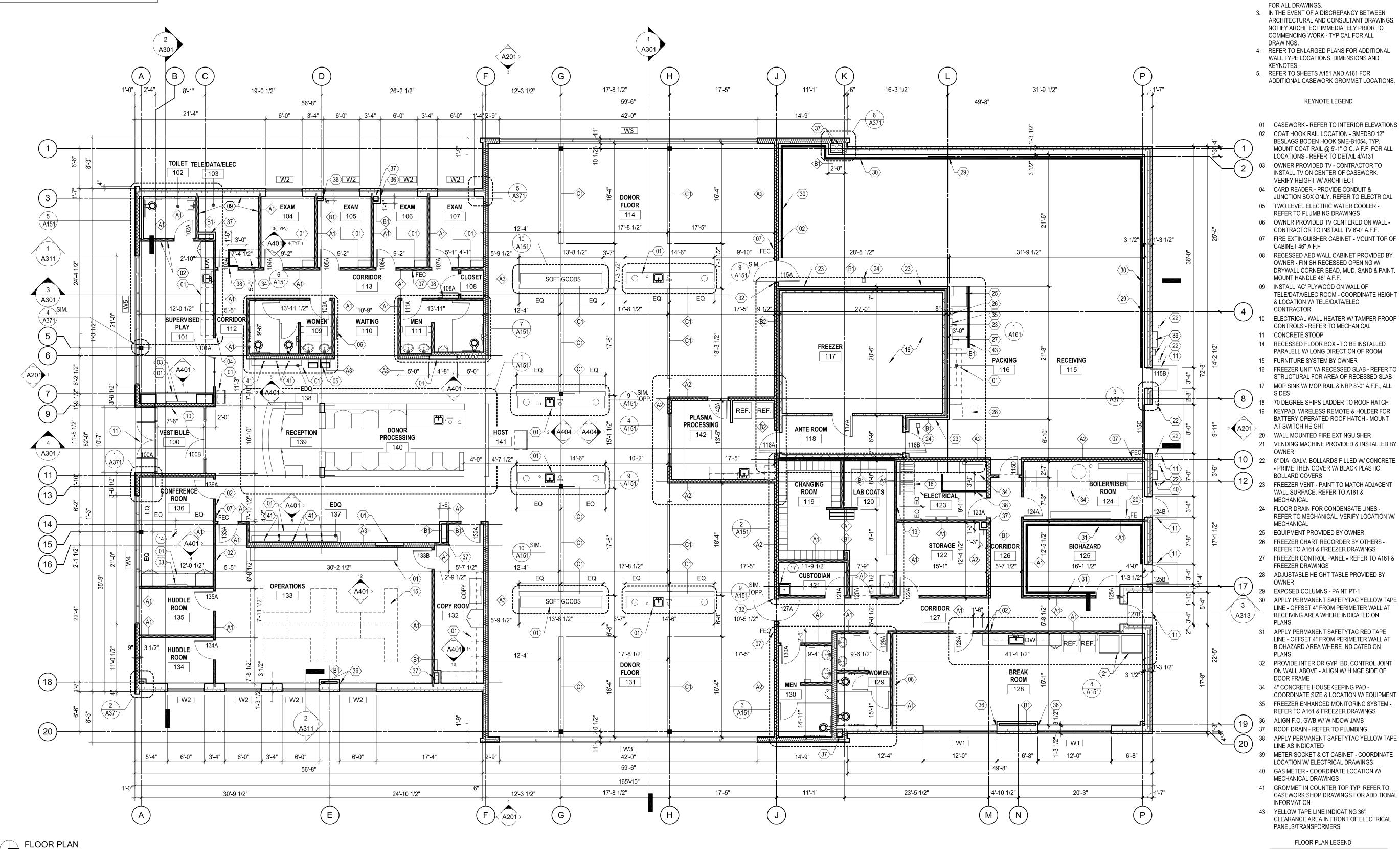
CONSTRUCTION SET

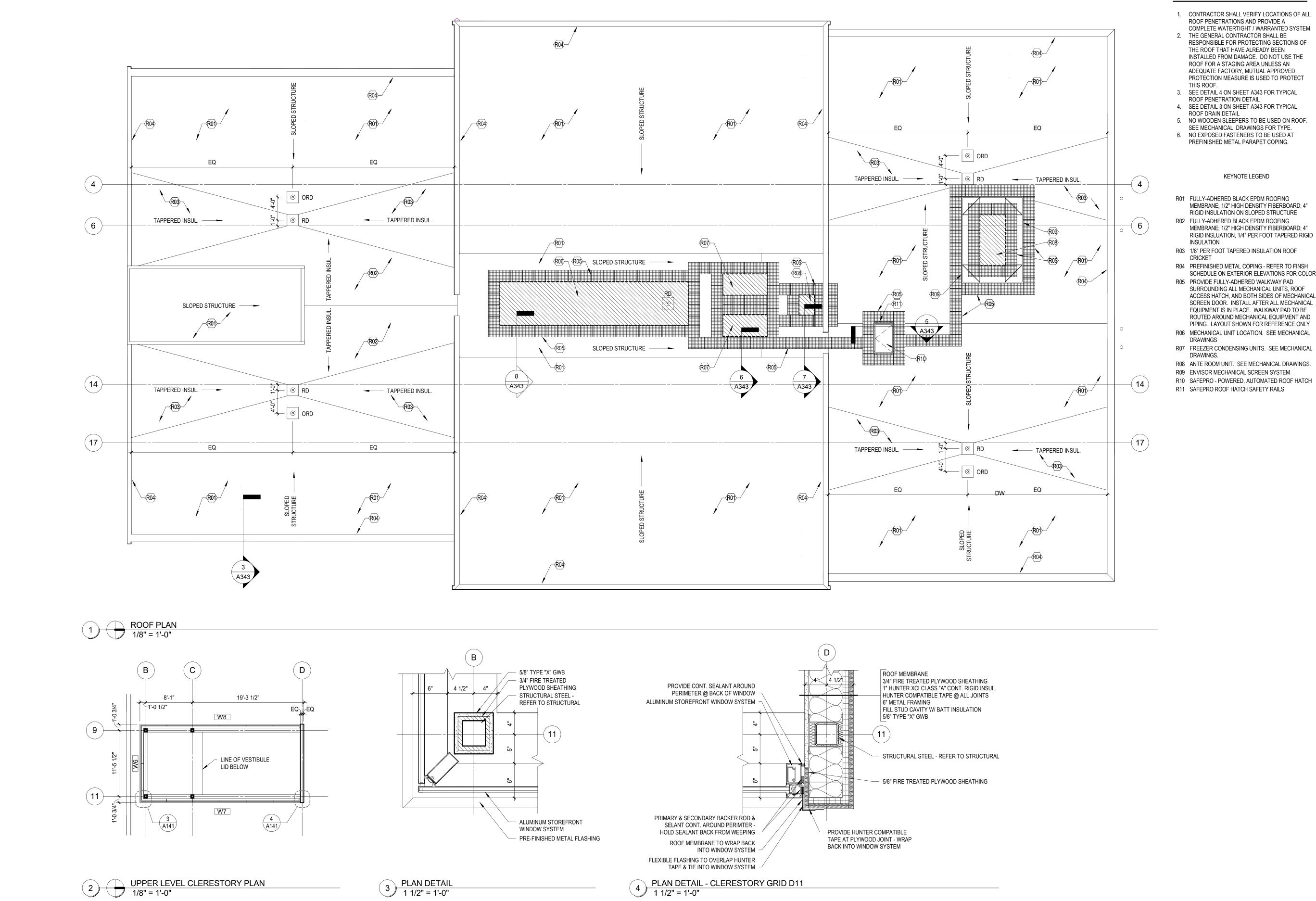
FLOOR PLAN

Revision Dates

OPN Project No. 17285000

A111





GENERAL NOTES

- 1. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ROOF PENETRATIONS AND PROVIDE A COMPLETE WATERTIGHT / WARRANTED SYSTEM.
- 2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING SECTIONS OF THE ROOF THAT HAVE ALREADY BEEN INSTALLED FROM DAMAGE. DO NOT USE THE ROOF FOR A STAGING AREA UNLESS AN ADEQUATE FACTORY, MUTUAL APPROVED PROTECTION MEASURE IS USED TO PROTECT
- 3. SEE DETAIL 4 ON SHEET A343 FOR TYPICAL ROOF PENETRATION DETAIL
- 4. SEE DETAIL 3 ON SHEET A343 FOR TYPICAL ROOF DRAIN DETAIL
- 5. NO WOODEN SLEEPERS TO BE USED ON ROOF. SEE MECHANICAL DRAWINGS FOR TYPE.
- 6. NO EXPOSED FASTENERS TO BE USED AT PREFINISHED METAL PARAPET COPING.

KEYNOTE LEGEND

- R01 FULLY-ADHERED BLACK EPDM ROOFING MEMBRANE; 1/2" HIGH DENSITY FIBERBOARD; 4" RIGID INSULATION ON SLOPED STRUCTURE R02 FULLY-ADHERED BLACK EPDM ROOFING MEMBRANE; 1/2" HIGH DENSITY FIBERBOARD; 4"
- R03 1/8" PER FOOT TAPERED INSULATION ROOF
- R04 PREFINISHED METAL COPING REFER TO FINSH SCHEDULE ON EXTERIOR ELEVATIONS FOR COLOR.
- R05 PROVIDE FULLY-ADHERED WALKWAY PAD SURROUNDING ALL MECHANICAL UNITS, ROOF ACCESS HATCH, AND BOTH SIDES OF MECHANICAL SCREEN DOOR. INSTALL AFTER ALL MECHANICAL EQUIPMENT IS IN PLACE. WALKWAY PAD TO BE ROUTED AROUND MECHANICAL EQUIPMENT AND PIPING. LAYOUT SHOWN FOR REFERENCE ONLY
- R06 MECHANICAL UNIT LOCATION. SEE MECHANICAL DRAWINGS
- R07 FREEZER CONDENSING UNITS. SEE MECHANICAL DRAWINGS.
- R08 ANTE ROOM UNIT. SEE MECHANICAL DRAWINGS. R09 ENVISOR MECHANICAL SCREEN SYSTEM
- R10 SAFEPRO POWERED, AUTOMATED ROOF HATCH
- R11 SAFEPRO ROOF HATCH SAFETY RAILS

CEDAR RAPIDS - DES MOINES -MADISON

OPN ARCHITECTS 200 5TH AVENUE SE SUITE 201 CEDAR RAPIDS, IA 52401 319-363-6018 PHONE 319-363-7349 FAX www.opnarchitects.com opn@opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2017 OPN Architects, Inc. Owner / General Contractor

BIO-LIFE PLASMA SERVICES CENTER

MESA, AZ

Sheet Issue Date CD SET XX/XX/18 Previous Issue Dates

ROOF PLAN

CONSTRUCTION SET

OPN Project No. 17285000

LEGEND:

FIRE DEPARTMENT CONNECTION

BENCHMARK

FLOW ARROW

SEWER CLEANOUT

TDE

EGEND:		
	EXISTING	PROPOSED
RACT BOUNDARY		
ROPERTY LINE		

	EXISTING	<u>PROPOSED</u>
TRACT BOUNDARY PROPERTY LINE RIGHT-OF-WAY CENTERLINE CURB		
CURB & GUTTER		
FENCE-WOOD EASEMENT		

WATER LINE FIRE SERVICE SANITARY SEWER LINE		——————————————————————————————————————
GAS LINE ELECTRIC LINE	G E	
FIBER OPTICS TELEPHONE	FO T	F0 T
FIRE HYDRANT	FH	•
WATER VALVE	\otimes	8

WATER METER		Ŭ.
SEWER MANHOLE		S
YARD DRAIN		
PAVEMENT ELEVATION	+P:60.43	*P:60.43
NATURAL GROUND ELEVATION	*NG:60.43	*NG:60.43
CONCRETE ELEVATION	*C:60.43	*C:60.43
TOP OF CURB ELEVATION	*TC:60.50	*TC:60.50
GUTTER ELEVATION	+G:60.00	†G:60.00

STORM DRAIN		
CONTOUR LINE	20	——20——
ADA ACCESS ROUTE		
DRYWELL		
CATCH BASIN		
UNDERGROUND RETENTIO	N RISER	
STORM DRAIN MANHOLE	(D)	(D)

APN	ASSESSOR PARCEL NUMBER.
B.C.H.H.	
	BASIS OF BEARING.
	BRASS CAP FLUSH.
CO	CURB OPENING.
CTV	
CVAE	CONTROLLED VEHICULAR—ACCESS EASEMENT
EM	ELECTRIC METER.
ET	ELECTRIC TRANSFORMER.
FH	FIRE HYDRANT.
(M)	MEASURED.
PC	PROPERTY CORNER.
PDE	POWER DISTRIBUTION EASEMENT.
P/L	PROPERTY LINE.
PUFE	PUBLIC UTILITY AND FACILITIES EASEMENT.
RAE	RECIPROCAL ACCESS EASEMENT.
(R)	RECORD.
RE	REFUSE ENCLOSURE.
R/W	RIGHT OF WAY.
Ř.L.S.	REGISTERED LAND SURVEYOR.
SMH	SEWER MANHOLE.
SDMH	STORM DRAIN MANHOLE.
SCO	SEWER CLEANOUT.

TEMPORARY DRAINAGE EASEMENT.

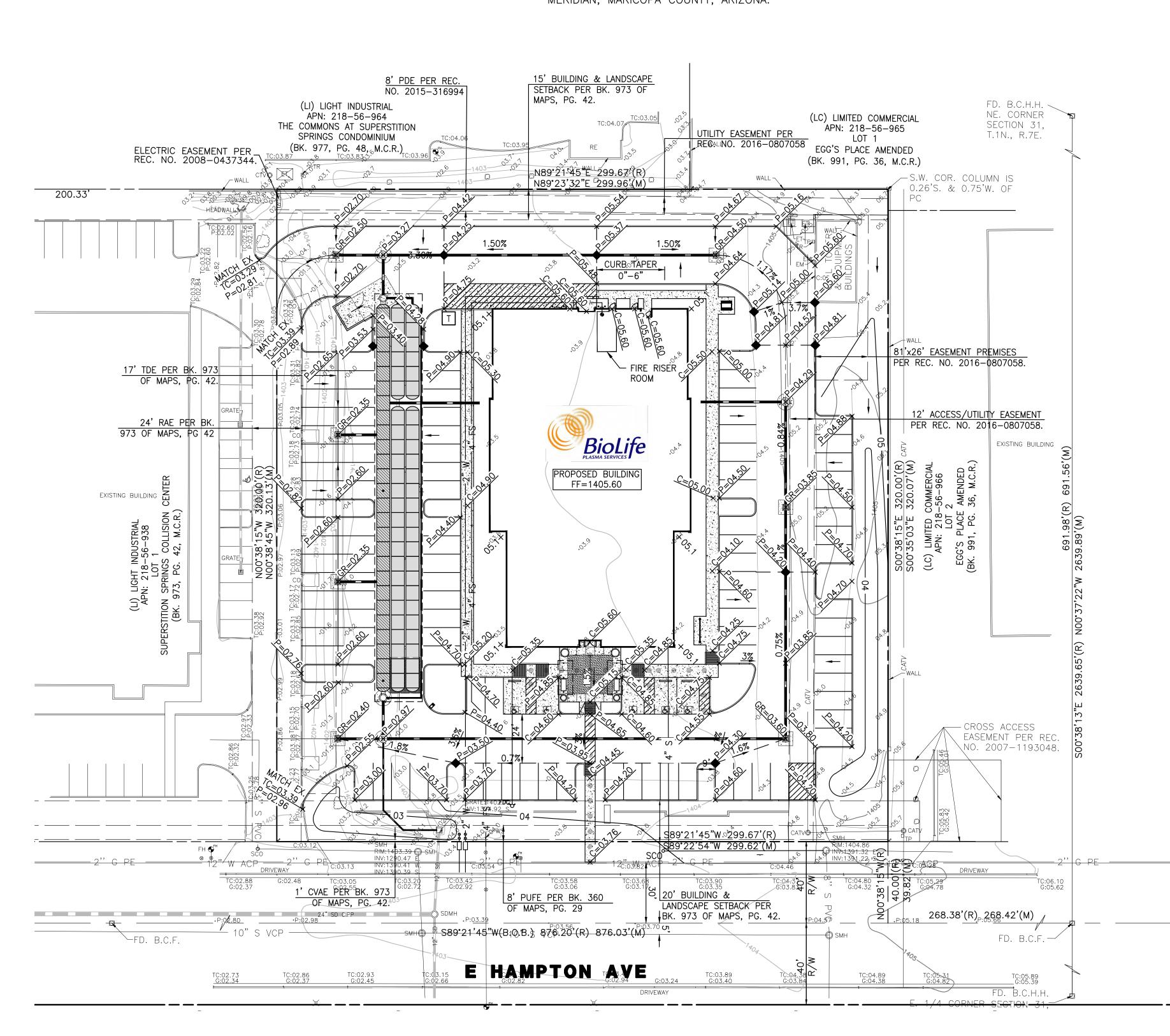
TELEPHONE RISER.

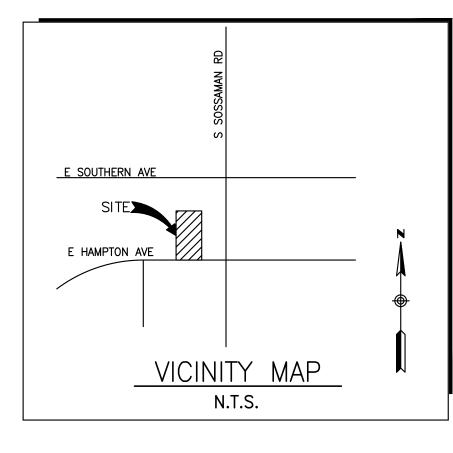
PRELIMINARY GRADING AND DRAINAGE PLAN

BIOLIFE PLASMA SERVICES CENTER

7538 E. HAMPTON AVE. MESA, ARIZONA 85203

OF A PORTION OF THE NORTHEAST QUARTER OF SECTION 31, TOWNSHIP 1 NORTH, RANGE 7 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA.





OWNER/DEVELOPER:

BUILD TO SUIT, INC. 1805 STATE STREET, SUITE 101 BETTENDORF, IA 52722 CONTACT: JASON HARDER PHONE: (563) 355-2022

ENGINEER:

RICK ENGINEERING COMPANY 6150 N 16TH STREET PHOENIX, ARIZONA 85016 CONTACT: JOSEPH M. CIRONE, PE PHONE: (602) 957-3350 EMAIL: JCIRONE@RICKENGINEERING.COM

ARCHITECT:

OPN ARCHITECTS 200 5TH AVE. SE #201 CEDAR RAPIDS, IA 52401 CONTACT: DOUG ELSBURY PHONE: (319) 363-6018

APN:

218-56-939

AREA:

95,963± SQ. FT. OR 2.203 ACRES (M)

LEGAL DESCRIPTION:

BEING LOT 2 SHOWN ON THE FINAL PLAT OF SUPERSTITION SPRINGS COLLISION CENTER, RECORDED 02/19/2008 IN BOOK 973, PAGE 42 OF THE MARICOPA COUNTY RECORDS.

BENCHMARK

BRASS TAG ON TOP OF CURB IN THE NORTHEAST CORNER OF THE INTERSECTION OF SOSSAMAN ROAD AND SOUTHERN AVENUE. ELEVATION: 1408.69 NAVD88 (CITY OF MESA DATUM)

RETENTION CALCULATION:

REQUIRED VOLUME

V = REQUIRED RETENTION VOLUME, CF D = DEPTH OF WATER TO RETAIN, 2.2 INCH A = TOTAL SITE AREA, 95,962.68 SF (2.203 AC)

 $V_R = \frac{D}{12} AC$

 $V_R = \frac{2.2}{12} (95,962.68) (0.90)$

C = RUNOFF COEFFICIENT, 0.90

 $V_R = 15,834 \text{ CF}$

PROVIDED VOLUME
UNDERGROUND VOLUME = 16,493 CF

NOTES:

- 1. THE BASIS OF BEARING USED FOR THIS SURVEY IS S89°21'45"W LOCATED ALONG THE MONUMENT LINE EAST HAMPTON AVENUE PER THE FINAL PLAT OF THE SUPERSTITION SPRINGS COLLISION CENTER RECORDED IN BOOK 973 OF MAPS, PAGE 42, RECORDS OF MARICOPA COUNTY
- 2. THIS SITE IS LOCATING IN ZONE "X" (DOTTED) PER "F.E.M.A." FLOOD INSURANCE RATE MAP NUMBER 04013C2295L, DATED: OCTOBER 16, 2013, ZONE "X" (DOTTED) IS DEFINED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD: AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE: AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

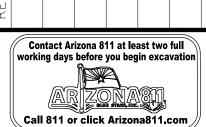


Engineering Company 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350

(FAX)602.285.2396

rickengineering.com 40968 Expires: 6-30-2019

Tucson - San Diego - Riverside - Orange Sacramento - San Luis Obispo - Denver

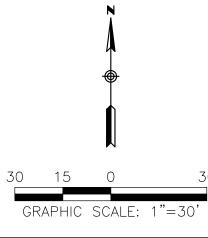


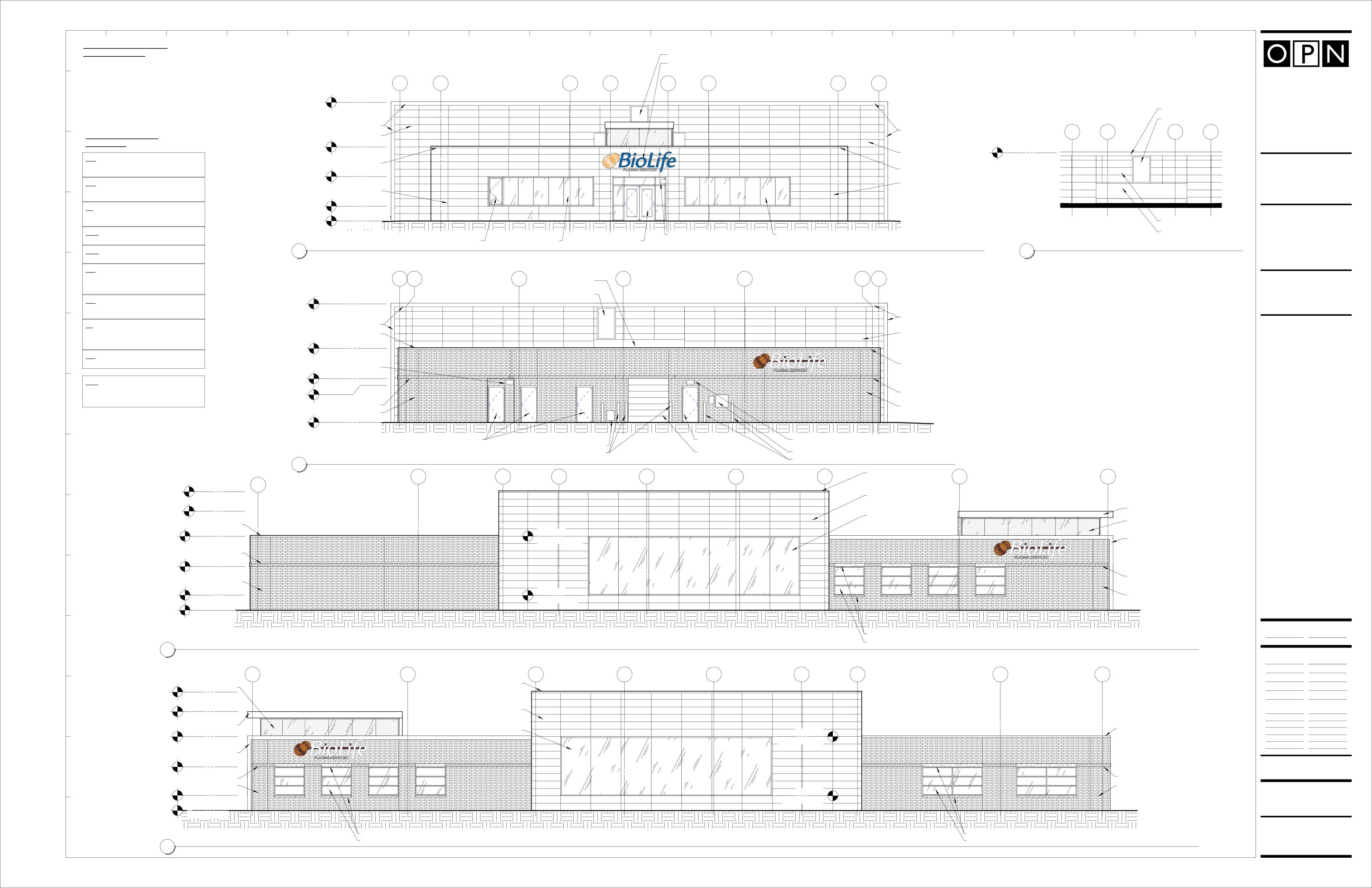
DATE: JANUARY 11, 2018

DRAWN: MSG DESIGNED: PROJ NO.

4883

SHT 1 OF 1





NARRATIVE SPECIAL USE PERMIT

BIOLIFE PLASMA SERVICES

LOCATION: 7538 EAST HAMPTON AVENUE (PARCEL NUMBER: 218-56-939)

The proposal is for the following:

Special Use Permit for Plasma Center in a Light Industrial (LI) Zoning District.

The purpose of this Special Use Permit is to allow a Plasma Center (i.e., BioLife Plasma Services) in the Light Industrial ("LI") zoning district. This site is located at 7538 East Hampton Avenue, which we are requesting approval of a site plan (case number: ZON17-00593), special use permit (i.e., this submittal), and design review (i.e., to be submitted January 29, 2018) for a plasma service building called BioLife Plasma Services on an unimproved 2.2 acre parcel. This property has remained vacant for more than 10-years and the proposed use/building will provide needed tax revenue and a service to the community.

BioLife Plasma Services is an industry leader in the collection of high-quality plasma that is processed into life-saving plasma-based therapies. BioLife Plasma Services operates and maintains numerous state-of-the-art plasma collection facilities in more than half the states throughout the United States - collecting around five million liters of plasma per year. Donors not only contribute the source of life-saving therapeutics, but also contribute to the commercial vitality of their immediate neighborhoods.

Some additional points about BioLife Plasma Services and plasma donations:

- Licensed by the Food and Drug Administration (FDA).
- Plasma-based therapies are used in the treatment of serious conditions such as hemophilia, immune deficiencies and to treat victims of shock and burns. To learn more about the products made from the plasma, please visit www.shire.com
- Donors mirror the demographics of the surrounding community.
 - ✓ Majority come from within a 7-mile radius of the center.
 - ✓ Approximately 86% are either employed, students, retired or homemakers.
 - ✓ All donors must provide proof of residency, ID and be in good general health.
- Use Debit Cards for donor compensation (no cash on site).
- Utilize online appointment scheduling.

Below is a YouTube video link that outlines their business model, their need in a community, their benefit to the community (i.e., medically, etc.), and the virtues of the plasma business today as compared to the past.

https://www.youtube.com/embed/_uw9pHyUlLs

The request for the Special Use Permit is based on the following below definitions and the LI zoning district's allowed list of uses as described within the City of Mesa's Zoning Ordinance.

1. Definition of "Plasma Center," which defines our client's use.

Plasma Center: Any facility used in the collection, storage, or distribution of liquid blood plasma. (Chapter 87 of the Zoning Ord.))

2. Definition/Land Use Classification of a "Clinic," which states "Plasma Centers" are included in this classification for clinics.

Hospitals and Clinics. Facilities providing medical, surgical, psychiatric, or emergency medical services to sick or injured persons. This classification includes facilities for inpatient or outpatient treatment, including substanceabuse programs as well as training, research, and administrative services for patients and employees.

Clinics. Facilities other than hospitals where patients are admitted for examinations and treatment by one (1) or more physicians, on either a "walk-in" or "appointment" basis. Patients are treated on an outpatient basis and are not admitted for overnight treatment or observation. This classification includes emergency medical services offered exclusively on an out-patient basis, such as urgent care centers, as well as licensed facilities offering substance abuse treatment, blood banks and plasma centers. (Chapter 86 of the Zoning Ord.)

3. The LI zoning district's list of uses, which allows "Clinics" via a SUP with additional "Standards for Specific Uses and Activities" noted in Section 11-31-15 as stated below and will be addressed in the site plan and design review applications.

11-31-15: Hospitals and Clinics

Hospitals and Clinics, as described in Section 11-86-3 shall be located, developed, and operated in compliance with the land use regulations in Article 2 and the following standards:

- A. Patient Entrances: Patient entrances shall:
 - 1. Be clearly distinctive from the remainder of the building, and be readily visible from the public street;
 - 2. Be identified by directional signage in conformance with requirements of Article 5;

- 4. Include an extended foundation base to provide a patient drop-off area of a minimum 900 sqft, extending a minimum 20-feet measured perpendicular from the patient entrance door; and
- 5. Pedestrian connections within parking areas, to other buildings on site, and to the public street and transit shall follow the requirements of Section 11-30-8, Pedestrian Connections and Section 11-32-4(G)3, Pedestrian Access.

Moreover, we are working with Technical Solutions, a neighborhood outreach coordinator, and they have gone out into the community to advise them of our proposal (i.e., the plasma center) and they have gotten very good responses so far. They have a petition/letters of approximately 40+ people in support and they are continuing to walk the neighborhoods and businesses in the area to advise them of the proposal. Moreover, we will be having a neighborhood meeting mid-February to go over all the cases submitted, confirm the status of the neighborhood, etc. Although we hope for no opposition, we recognize that may not be the case and we have heard of 7 people not supportive, but it is unclear how much so and it appears they are some distance from the proposed use.

The following discusses the findings for approving our Special Use Permit pursuant to the City of Mesa's Zoning Ordinance.

11-70-5: Special Use Permit

E. **Required Findings.** A SUP shall only be granted if the approving body determines that the project as submitted or modified conforms to all of the following criteria.

It if is determined that it is not possible to make all of the required findings, the application shall be denied. The specific basis for denial shall be established in the record.

- 1. Approval of the proposed project will advance the goals and objectives of and is consistent with the policies of the General Plan and any other applicable City plan and/or policies;
- **Response:** Per the Mesa 2040 General Plan the Character area designation for this property is Mixed Use Activity District. Mixed Use Activity District is defined as and its focus is as follows (*emphasis added*):

"Mixed Use Activity Districts – Areas of activity, generally larger than 25 acres that serve the larger community; primarily retail areas and entertainment centers, but often also include offices, multiresidential, and other supporting uses.

Focus: The Mixed Use Activity Districts are largescale (typically over 25 acres) community and regional activity areas that **usually have a significant retail commercial component** including shopping areas such as malls, power centers, or lifestyle centers that are **designed and**

developed to attract customers from a large radius. These districts often include other uses such as office, entertainment and residential.

Big box development (individual retail spaces in excess of 80,000 sq. ft.) is appropriate in these districts. Particularly with redevelopment of shopping centers, these districts may take on a significant residential character, but will still have a mix of uses. The goal is to help these districts be strong and viable centers of commercial activity that attract people to unique shopping and entertainment experiences."

The proposed BioLife Plasma Services building and use will fit nicely within this infill lot as a part of the large retail area, which includes: Costco, CVS, auto-body collision services, retail stores (i.e., inline suites), offices, and residential (i.e., apartments). This also includes the proximity to single-family homes the freeway (U.S. 60) and major arterial street (i.e., Sossaman Road). BioLife Plasma Services operate near major retail centers in order for the donation to be a part of the individual's weekly routine with easy access. The daily hours of operation will be consistent and compatible with the existing uses in the area (i.e., retail and office) from 8:00 AM to 6:00 PM and will employ approximately 50 people. In addition, the ancillary benefit is that it helps in keeping the tax dollars within the community.

The development of this infill, somewhat challenged visibility, and underutilized vacant lot will be beneficial for the retail users and the City.

- 2. The location, size, design, and operating characteristics of the proposed project are consistent with the purposes of the district where it is located and conform with the General Plan and with any other applicable City plan or policies;
- Response: The proposed facility is being designed to provide a general medical office type environment as well as additional design amenities. BioLife Plasma Services' building materials will be both durable and have low maintenance requirements with all building sides reflecting continuity in architectural detail and character. All rooftop mechanical systems will have screening integrated into the design. (Note: A concurrent Design Review application will be filed on January 29, 2018) However, the proposed site plan submittal (case number: ZON17-00593) focuses on creating a pedestrian-oriented environment by providing safe walking routes from the building to the street and surrounding parking lot area. The site plan and overall design will be in accordance with the City of Mesa's Development Standards, Chapter 11-7-3. We look forward to a successful relationship with the City of Mesa. (Note: An Administrative Use Permit [AUP] request will be submitted to allow for additional parking above the required.)

Moreover, the proposed use will fits nicely within the City of Mesa's Zoning Ordinance definition of Light Industrial (*emphasis added*).

"Light Industrial (LI). To provide areas for limited manufacturing and processing, wholesaling, research, warehousing, and distribution activities take place within enclosed buildings, with restricted accessory outdoor storage as needed to support the primary uses. Light Industrial areas can be used to buffer General Industrial uses from other less intense uses. This district also provides for a full range of commercial activities, generally on a limited scale, including high-impact commercial uses, outdoor display and outdoor sale. Individual developments include well-designed buildings on sites that may or may not have campus-like settings, and areas visible to the general public include well-designed landscape areas."

Finally, the daily hours of operation will be consistent and compatible with the existing uses in the area (i.e., retail and office) from 8:00 AM to 6:00 PM and will employ approximately 50 people.

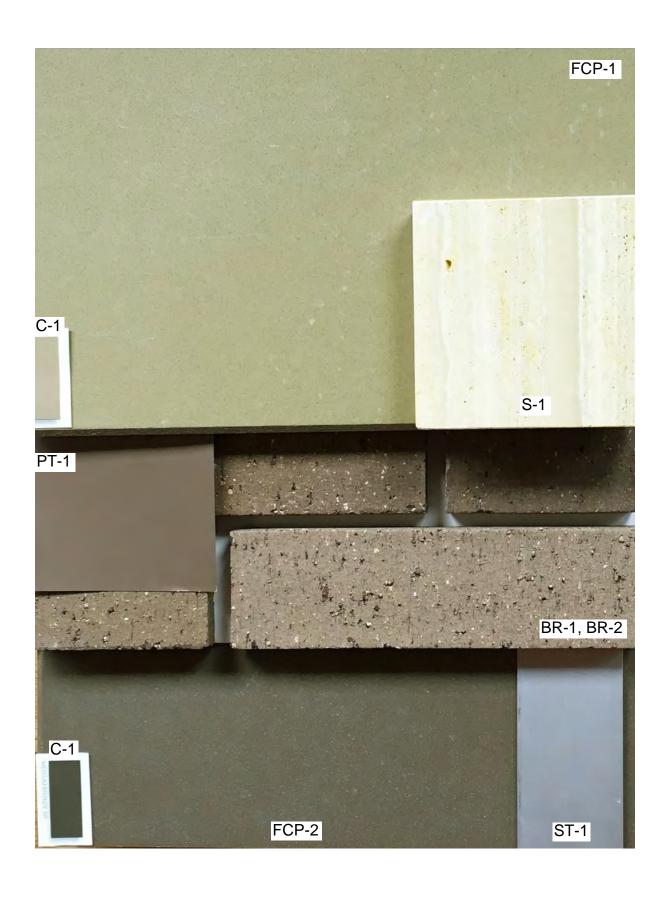
3. The proposed project will not be injurious or detrimental to the adjacent or surrounding properties in the area, nor will the proposed project or improvements be injurious or detrimental to the neighborhood or to the general welfare of the City; and

The development of this remnant (infill), underutilized property will provide a needed use, tax dollars (i.e., sales, property, construction, etc.) for this commercial/retail area. Moreover, the proposed use is buffered by a major arterial street (Sossaman Road) and commercial/office type uses, which it will also blend nicely with a contemporary medial office design. The proposed use and ultimate development will not have any injurious or detrimental effect to the adjacent or surrounding properties in the area; conversely it will provide a benefit.

4. Adequate public services, public facilities and public infrastructure are available to serve the proposed project.

The proposed development will be on a vacant (infill) lot that currently has all the necessary, adequate services along with fully improved streets to afford a quick "plug-in" style of development, which is more sustainable and cost effective for both the developer and the City.

It is clear the findings have been met to allow said use, per the Special Use Permit four (4) requirements. With that being said, we are pleased to submit the enclosed Special Use Permit materials for the proposed BioLife Plasma Services use for your review. In the meantime, if you have any questions regarding this request, please feel free to contact Dennis M. Newcombe, Beus Gilbert PLLC at: (480) 429-3065 or via email: dnewcombe@beusgilbert.com.





BIOLIFE PLASMA SERVICES

CENTER – MESA, AZ

MATERIAL INFORMATION





CSX1 LED LED Area Luminaire







Specifications

0.7 ft²

23-1/2" Length: (59.7 cm)

18-1/2"

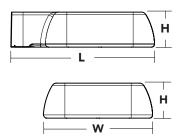
Width: (46.9cm)

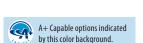
5-7/8"

Height: (14.9 cm)

Weight 37 |bs

Weight 37 lbs (max): (16.8 kg)





Ordering Information

CSX1 LED 60C 1000 40K T5M MVOLT SPA HS DDBXD Notes Type LH

** Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1
- This luminaire is part of an A+ Certified solution for ROAM®2 or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

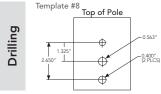
- 1. See ordering tree for details.
- 2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

EXAMPLE: CSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

CSX1 LED	60C										
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting	Mounting			Finish (required)	
CSX1 LED	60C 60 LEDs	700 700 mA 1000 1000 mA (1 A)	40K 4000 K 50K 5000 K	T2M Type II T3M Type III T4M Type IV T5M Type V TFTM Forward throw	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 480	RPA WBA Shipped Separat SPUMBA RPUMBA KMA8 DDBXD U	Square pole mounting Round pole mounting Wall bracket	PER DCR DMG HS SF DF DS BL30 BL50	ed installed NEMA twist-lock receptade only (no controls) Dimmable and controllable via ROAM® (no controls) 0-10V dimming driver (no controls) 6 House-side shield 2 Single fuse (120, 277, 347V) 7 Double fuse (208, 240, 480V) 7 Dual switching 89 Bi-level switched dimming, nominal 30% 8,10 Bi-level switched dimming, nominal 50% 8,10 Bi-ded separately 2 Vandal guard Bird-deterrant spikes	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white



Ordering Information



Accessories

PUMBA DDBXD U* Ing bracket adaptor (specify finish)
CSX1HS U House-side shield (includes 2 shields)
CSX1YG U Vandal guard accessory
CSX1BS U Bird-deterrent spikes accessory

For more control options, visit DTL and ROAM online.

CSX1 shares a unique drilling pattern with the AERIS $^{\rm TM}$ family. Specify this drilling pattern when specifying poles.

 DM19AS
 Single unit
 DM29AS
 2 at 90° *

 DM28AS
 2 at 180°
 DM39AS
 3 at 90° *

 DM49AS
 4 at 90° *
 DM32AS
 3 at 120° **

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.

Round pole top must be 3.25" O.D. minimum. **For round pole mounting (RPA) only.

Tenon Mounting Slipfitter **

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
- 2 Also available as a separate accessory; see Accessories information at left.
- 3 1.5 G vibration load rating per ANCI C136.31.
- Requires "SPA" mounting option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- 5 Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Add'l hardware and services required for ROAM® deployment; call 1-800-442-6745.
- Not available with 347 or 480V.
- 7 Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 8 Provides 50% dimming capability via two independent drivers, each operating half the luminaire. Available with MVOLT and two light engines only. N/A with PER, DCR or DMG.
- 9 Requires an additional switched line.
- 10 Dimming driver standard. MVOLT only. Not available with DCR.
- 11 Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current	. System		40K					50K				
	(mA)	Watts	Туре	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW
			T2M	15,590	3	0	3	116	15,687	3	0	3	117
			T3M	16,502	3	0	3	123	16,605	3	0	3	124
	700 mA	134	T4M	16,479	2	0	3	123	16,582	3	0	3	124
			T5M	16,539	4	0	2	123	16,643	4	0	2	124
60C			TFTM	16,710	2	0	3	125	16,814	2	0	3	125
buc.			T2M	21,048	3	0	3	101	21,180	3	0	3	101
			T3M	22,279	3	0	3	107	22,418	3	0	4	107
	1000 mA 209	209	T4M	22,248	3	0	4	106	22,387	3	0	4	107
			T5M	22,330	5	0	3	107	22,469	5	0	3	108
			TFTM	22,560	3	0	3	108	22,701	3	0	4	109

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40 $^{\circ}\text{C}$ (32-104 $^{\circ}\text{F}).$

Amb	ient	Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the CSX1 LED 60C platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.90	0.83

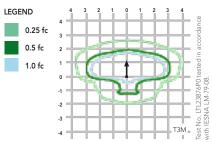
Electrical Load

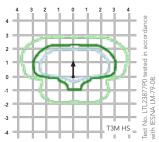
					Curre	nt (A)		
Number of LEDs	Drive Current (mA)	System Watts	120V	208V	240V	277V	347V	480V
(0)	700	134W	1.321	0.756	0.659	0.580	0.462	0.337
60C	1000	209W	2.068	1.198	1.056	0.943	0.764	0.605

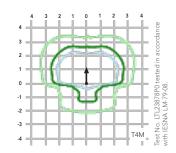
Photometric Diagrams

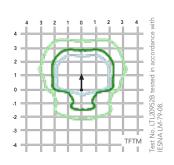
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's CSX1 homepage.

Isofootcandle plots for the CSX1 LED 60C 1000 40K. Distances are in units of mounting height (20')











FEATURES & SPECIFICATIONS

INTENDED USE

The Contour Series LED area luminaire is ideal for streets, walkways, parking lots, and surrounding areas that call for high-performance LED lighting in a transitional dayform.

CONSTRUCTION

Single-piece die cast housing has a unique flow-through design that allows for optimized thermal management through convective cooling. A metallic screen covers the top of the housing, preventing debris build-up while allowing natural cleaning of the heat sinks. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver and electronics are thermally isolated from the light engine(s), ensuring long life. Housing is completely sealed against moisture and environmental contaminants.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

Precision-molded acrylic lenses provide optimal luminaire spacing and improved uniformity. Lenses are indexed to the circuit board to ensure consistent optical alignment and delivering repeatable photometric performance. Light engines are available in standard 4000 K (70 CRI) or optional 5000 K (67 CRI) configurations. The CSX1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engines consist of 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (100,000 hrs at 40° C, L70). Class 1 electronic driver

designed to have a power factor >90%, THD <20%, with an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Integral arm provides easy installation to a pole and assists in alignment and leveling. Secure connection withstands up to 3.0 G vibration load rating per ANSI C136.31. The CSX1 utilizes the AERIS™ series pole drilling pattern for SPA and RPA options; wall mounting bracket also available. Available mast arm adapter accessory accepts horizontal tenons up to 2-3/8" O.D.

LISTINGS

CSA Certified to U.S. and Canadian standards. Light engines and luminaire are IP66 rated. U.S. Patent No. D632830. U.S. Patent No. D653,382 S.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms and conditions.asp.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





CSX1 LED LED Area Luminaire







Specifications

EPA: (0.07 m²)

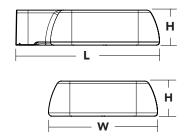
23-1/2" Length: (59.7 cm)

18-1/2" Width:

(46.9cm)

5-7/8" Height: (14.9 cm)

Weight 37 lbs (16.8 kg) (max):









Notes Туре

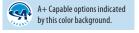
4 Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1
- This luminaire is part of an A+ Certified solution for ROAM®2 or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

- 1. See ordering tree for details.
- 2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL



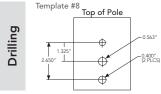
Ordering Information

EXAMPLE: CSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

CSX1 LED	60C										
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting		Options	Finish (req	Finish (required)	
CSX1 LED	60C 60 LEDs	700 700 mA 1000 1000 mA (1 A)	40K 4000 K 50K 5000 K	T2M Type II T3M Type III T4M Type IV T5M Type V TFTM Forward throw	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 480	RPA Rom WBA W. Shipped Separately SPUMBA Sq un RPUMBA Ro un MR Ad RPUMBA RO un MR	quare pole nounting ound pole nounting vall bracket ly ² quare pole niversal nounting daptor ³ ound pole niversal nounting daptor ³ last arm nounting racket adaptor specify finish) ⁴	Shipped installed PER NEMA twist-lock receptacle only (no controls) DCR Dimmable and controllable via ROAM® (no controls) 5 DMG 0-10V dimming driver (no controls) 6 HS House-side shield 2 SF Single fuse (120, 277, 347V) 7 DF Double fuse (208, 240, 480V) 7 DS Dual switching 89 BL30 Bi-level switched dimming, nominal 30% 9,10 Shipped separately 2 VG Vandal guard BS Bird-deterrant spikes	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white	



Ordering Information



Accessories

PUMBA DDBXD U* Ing bracket adaptor (specify finish)
CSX1HS U House-side shield (includes 2 shields)
CSX1YG U Vandal guard accessory
CSX1BS U Bird-deterrent spikes accessory

For more control options, visit DTL and ROAM online.

CSX1 shares a unique drilling pattern with the AERIS $^{\rm TM}$ family. Specify this drilling pattern when specifying poles.

 DM19AS
 Single unit
 DM29AS
 2 at 90° *

 DM28AS
 2 at 180°
 DM39AS
 3 at 90° *

 DM49AS
 4 at 90° *
 DM32AS
 3 at 120° **

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.

Round pole top must be 3.25" O.D. minimum. **For round pole mounting (RPA) only.

Tenon Mounting Slipfitter **

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
- 2 Also available as a separate accessory; see Accessories information at left.
- 3 1.5 G vibration load rating per ANCI C136.31.
- Requires "SPA" mounting option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- 5 Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Add'l hardware and services required for ROAM® deployment; call 1-800-442-6745.
- Not available with 347 or 480V.
- 7 Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 8 Provides 50% dimming capability via two independent drivers, each operating half the luminaire. Available with MVOLT and two light engines only. N/A with PER, DCR or DMG.
- 9 Requires an additional switched line.
- 10 Dimming driver standard. MVOLT only. Not available with DCR.
- 11 Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current	. System		40K					50K				
	(mA)	Watts	Туре	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW
			T2M	15,590	3	0	3	116	15,687	3	0	3	117
			T3M	16,502	3	0	3	123	16,605	3	0	3	124
	700 mA	134	T4M	16,479	2	0	3	123	16,582	3	0	3	124
			T5M	16,539	4	0	2	123	16,643	4	0	2	124
60C			TFTM	16,710	2	0	3	125	16,814	2	0	3	125
buc.			T2M	21,048	3	0	3	101	21,180	3	0	3	101
			T3M	22,279	3	0	3	107	22,418	3	0	4	107
	1000 mA 209	209	T4M	22,248	3	0	4	106	22,387	3	0	4	107
			T5M	22,330	5	0	3	107	22,469	5	0	3	108
			TFTM	22,560	3	0	3	108	22,701	3	0	4	109

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40 $^{\circ}\text{C}$ (32-104 $^{\circ}\text{F}).$

Amb	ient	Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the CSX1 LED 60C platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.90	0.83

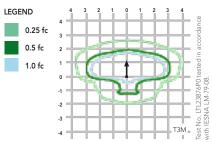
Electrical Load

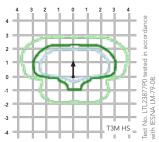
			Current (A)					
Number of LEDs	Drive Current (mA)	System Watts	120V	208V	240V	277V	347V	480V
(0)	700	134W	1.321	0.756	0.659	0.580	0.462	0.337
60C	1000	209W	2.068	1.198	1.056	0.943	0.764	0.605

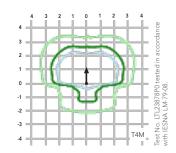
Photometric Diagrams

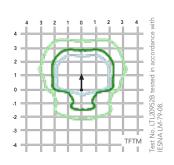
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's CSX1 homepage.

Isofootcandle plots for the CSX1 LED 60C 1000 40K. Distances are in units of mounting height (20')











FEATURES & SPECIFICATIONS

INTENDED USE

The Contour Series LED area luminaire is ideal for streets, walkways, parking lots, and surrounding areas that call for high-performance LED lighting in a transitional dayform.

CONSTRUCTION

Single-piece die cast housing has a unique flow-through design that allows for optimized thermal management through convective cooling. A metallic screen covers the top of the housing, preventing debris build-up while allowing natural cleaning of the heat sinks. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver and electronics are thermally isolated from the light engine(s), ensuring long life. Housing is completely sealed against moisture and environmental contaminants.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

Precision-molded acrylic lenses provide optimal luminaire spacing and improved uniformity. Lenses are indexed to the circuit board to ensure consistent optical alignment and delivering repeatable photometric performance. Light engines are available in standard 4000 K (70 CRI) or optional 5000 K (67 CRI) configurations. The CSX1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engines consist of 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (100,000 hrs at 40° C, L70). Class 1 electronic driver

designed to have a power factor >90%, THD <20%, with an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Integral arm provides easy installation to a pole and assists in alignment and leveling. Secure connection withstands up to 3.0 G vibration load rating per ANSI C136.31. The CSX1 utilizes the AERISTM series pole drilling pattern for SPA and RPA options; wall mounting bracket also available. Available mast arm adapter accessory accepts horizontal tenons up to 2-3/8" O.D.

LISTINGS

CSA Certified to U.S. and Canadian standards. Light engines and luminaire are IP66 rated. U.S. Patent No. D632830. U.S. Patent No. D653,382 S.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms and conditions.asp.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





FEATURES & SPECIFICATIONS

INTENDED USE — Square straight steel pole for up to 39-foot mounting height.

CONSTRUCTION — Weldable-grade, hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi (11-gauge), or 50,000 psi (7-gauge). Uniform wall thickness of .1196" or .1793". Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4, 5 and 6 inches.

Anchor base is fabricated from hot-rolled carbon steel plate conforming to ASTM A36, that meets or exceeds a minimum-yield strength of 36,000 psi. Base plate and shaft are circumferentially welded top and bottom. Base cover is finished to match pole.

A handhole having nominal dimensions of 3" x 5" for all shafts. Included is a cover with attachment screws. Top cap provided with all drill-mount and open top "PT" poles.

Fasteners are high-strength galvanized, zinc-plated or stainless steel.

Finish: Must specify finish.

Grounding: Provision located immediately inside handhole rim. Grounding hardware is not included (provided by others).

Anchor bolts: Top portion of anchor bolt is galvanized per ASTM A-153. Made of steel rod having a minimum yield strength of 55,000 psi.

Note: Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

Catalog SSS 25 4G DM19AS VD DNA

Notes

Mounted on 3'-0" concrete base

Туре

Pole

Anchor Base Poles

SQUARE STRAIGHT STEEL

ORDER	ING INFORMATION	Lead times will vary de	epending on options selected. Consult with	n your sales representative.		Example: SSS 20 5C DM19 DDB
SSS	25	4G	DM19AS		VD	DNA
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness	Mounting ¹		Options	Finish ¹⁰
SSS	10 – 39 feet (See back page.)	(See back page.)	Tenon mounting PT Open top (includes top cap) T20 2-3/8" 0.D. (2" NPS) T25 2-7/8" 0.D. (2-1/2" NPS) T30 3-1/2" 0.D. (3" NPS) T35 4" 0.D. (3-1/2" NPS) Drill mounting² DM19 DM28 2 at 180° DM28 PL 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° CSX/DSX/AERIS™/OMERO™ Drill mounting² DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90°	AERIS™ Suspend drill mounting ^{2,3} DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 3 at 90° DM39AST_ 4 at 90° OMERO™ Suspend drill mounting ^{2,3} DM19MRT_ 1 at 90° DM29MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90°	Shipped installed L/AB Less anchor bolts VD Vibration dampe TP Tamper proof H1-18Sxx Horizontal arm b (1 fixture) ^{4,5} FDLxx Festoon outlet le electrical ⁴ CPL12xx 1/2" coupling ⁴ CPL1xx 1" coupling ⁴ CPL1xx 1" coupling ⁴ NPL12xx 1/2" threaded nip NPL34xx 3/4" threaded nip NPL1xx Extra handhole ^{4,} MAEX Match existiing ⁷ USPOM United States poi manufacture ⁸ IC Interior coating ⁹	pracket DWH White DBL Black DMB Medium bronze DNA Natural aluminum Classic colors DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue Architectural colors (powder finish) ¹⁰

NOTES:

- 1. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/ T20. The combination includes a required extra handhole.
- 2. The drilling template to be used for a particular luminaire depends on the luminaire that is used. Refer to the Technical Data Section of the Outdoor Binder for Drilling Templates.
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- Specify location and orientation when ordering option. Specify the height in feet above base of pole. Example: 5ft = 5 and 20ft = 20Specify orientation from handhole (A,B,C,D)

Refer to the Handhole Orientation diagram above.

- Horizontal arm is 18" x 2-3/8" O.D. tenon standard.
- Combination of tenon-top and drill mount includes extra
- Must add original order number
- 8. Use when mill certifications are required.
- Provides enhanced corrosion resistance.
- Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Powder finish standard.

HANDHOLE ORIENTATION

Handhole

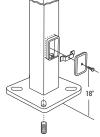
IMPORTANT INSTALLATION NOTES:

- · Do not erect poles without having fixtures installed.
- · Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- · Lithonia Lighting is not responsible for the foundation design.

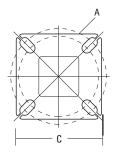
OUTDOOR POLE-SSS

	TECHNICAL INFORMATION												
						EPA (f	t²) with 1.	3 gust					
Catalog Number	Nominal mount ht. (ft)	Pole Shaft Size (in x ft)	Wall Thickness (in)	Gauge	80 mph	Max. weight	90 mph	Max. weight	100 mph	Max. weight	Bolt Circle (in)	Bolt Size (in x in x in)	Approximate ship (lbs)
SSS 10 4C	10	4.0 x 10.0	0.1196	11	30.6	765	23.8	595	18.9	473	89	3/4 x 18 x 3	75
SSS 12 4C	12	4.0 x 12.0	0.1196	11	24.4	610	18.8	470	14.8	370	89	3/4 x 18 x 3	90
SSS 14 4C	14	4.0 x 14.0	0.1196	11	19.9	498	15.1	378	11.7	293	89	3/4 x 18 x 3	100
SSS 16 4C	16	4.0 x 16.0	0.1196	11	15.9	398	11.8	295	8.9	223	89	3/4 x 18 x 3	115
SSS 18 4C	18	4.0 x 18.0	0.1196	11	12.6	315	9.2	230	6.7	168	89	3/4 x 18 x 3	125
SSS 20 4C	20	4.0 x 20.0	0.1196	11	9.6	240	6.7	167	4.5	150	89	3/4 x 18 x 3	140
SSS 20 4G	20	4.0 x 20.0	0.1793	7	14	350	11	275	8	200	89	3/4 x 30 x 3	198
SSS 20 5C	20	5.0 x 20.0	0.1196	11	17.7	443	12.7	343	9.4	235	1012	1 x 36 x 4	185
SSS 20 5G	20	5.0 x 20.0	0.1793	7	28.1	703	21.4	535	16.2	405	1012	1 x 36 x 4	265
SSS 25 4C	25	4.0 x 25.0	0.1196	11	4.8	150	2.6	100	1	50	89	3/4 x 18 x 3	170
SSS 25 4G	25	4.0 x 25.0	0.1793	7	10.8	270	7.7	188	5.4	135	89	3/4 x 30 x 3	245
SSS 25 5C	25	5.0 x 25.0	0.1196	11	9.8	245	6.3	157	3.7	150	1012	1 x 36 x 4	225
SSS 25 5G	25	5.0 x 25.0	0.1793	7	18.5	463	13.3	333	9.5	238	1012	1 x 36 x 4	360
SSS 30 4G	30	4.0 x 30.0	0.1793	7	6.7	168	4.4	110	2.6	65	89	3/4 x 30 x 3	295
SSS 30 5C	30	5.0 x 30.0	0.1196	11	4.7	150	2	50			1012	1 x 36 x 4	265
SSS 30 5G	30	5.0 x 30.0	0.1793	7	10.7	267	6.7	167	3.9	100	1012	1 x 36 x 4	380
SSS 30 6G	30	6.0 x 30.0	0.1793	7	19	475	13.2	330	9	225	1113	1 x 36 x 4	520
SSS 35 5G	35	5.0 x 35.0	0.1793	7	5.9	150	2.5	100			1012	1 x 36 x 4	440
SSS 35 6G	35	6.0 x 35.0	0.1793	7	12.4	310	7.6	190	4.2	105	1113	1 x 36 x 4	540
SSS 39 6G	39	6.0 x 39.0	0.1793	7	7.2	180	3	75			1113	1 x 36 x 4	605

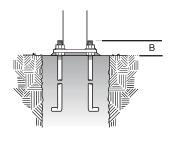




	POLE DATA										
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description	Anchor bolt and template number					
4"C	8-1/2"	2-3/4"-4"	8"	ABTEMPLATE PJ50004	AB18-0	ABSSS-4C					
4"G	8-1/2"	2-3/4"-4"	8"	ABTEMPLATE PJ50004	AB30-0	ABSSS-4G					
5"	10"-12"	3-3/8"-4"	11"	ABTEMPLATE PJ50010	AB36-0	ABSSS-5					
6"	11"-13"	3-3/8"-4"	12-1/2"	ABTEMPLATE PJ50011	AB36-0	N/A					



OUTDOOR:



www.lithonia.com

• These specifications are intended for general purposes only. Lithonia reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.



POLE-SSS

HBLED13A





Project:	Type:
Biolife	LF
Prepared By:	Date:
Nelson Electric	11.15.16

Driver Info		LED Info	
Type: 120V: 208V:	Constant Current 0.12A 0.09A	Watts: Color Temp:	13W 5000K (Cool) 67 CRI
240V: 277V:	0.09A 0.08A 0.07A	Color Accuracy: L70 Lifespan: Lumens:	100,000 1,490
Input Watts: Efficiency:	14W 92%	Efficacy:	105 LPW

Notes: Floods aimed directly at front building facade



Technical Specifications

Listings

UL Listing:

Suitable for wet locations. Suitable for ground mounting.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

LED Characteristics

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

Construction

Thermal Management:

Cast aluminum patent pending Thermal Management system for optimal heat sinking. The LFLOOD is designed for cool operation, most efficient output and maximum LED life by minimizing LED junction temperature.

Swivels:

Fully adjustable with sure-grip locks. 1/2" NPS threaded arm with serrated locking swivel fits all standard mounting covers. Color matched EZ Grip lock nuts. Stainless steel screw.

Housing:

Precision die cast aluminum housing.

Gaskets:

High Temperature Silicone.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

RAB LEDs are Mercury and UV free.

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

LFLOOD 13W:

LED Floodlight that reduces energy consumption by 85% compared to 100W PAR38. Spot and Flood beam patterns. Recommended for Residential and Commercial applications.

Electrical

THD:

10% at 120V

Power Factor:

98.6% at 120V

Driver:

Multi-chip 13W high output long life LED Driver Constant Current, 100V - 277V, 50/60 Hz.

Surge Protection:

4KV

Other

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

California Title 24:

HBLED13 complies with 2013 California Title 24 building and electrical codes as a commercial outdoor non-pole-mounted fixture < 30 Watts when used with a photosensor control. Select catalog number PCS900(120V) or PCS900/277 to order a photosensor.

Equivalency:

The HBLED13 is Equivalent in delivered lumens to a 100W PAR Halogen.

Patents:

LFLOOD thermal Management technology is protected under utility patents pending in the U.S., Canada and China.

Equivalency:

The HBLED13 is Equivalent in delivered lumens to a 90W PAR Floodlight.

HID Replacement Range:

The HBLED13 can be used to replace 90-100W PAR Floodlights based on delivered lumens.

Country of Origin:

Designed by RAB in New Jersey and assembled in Taiwan.

Technical Specifications (continued)

Othe

Trade Agreements Act Compliant:

This product is a product of Taiwan and a "designated country" end product that complies with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Optical

Lumen Maintenance:

The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

Reflectors:

NEMA 5x5 floodlight reflector with 4x4 optional spotlight reflector for field installation. Photometrics show flood configuration.

HBLED13A



Dimensions

Features

Ultra efficient LED and optical design

Rugged die cast aluminum housing with powder coat finish

Glare shield for effective light control

Weatherproof high temperature silicone gaskets

5-year warranty

Ordering Matrix			
Family	Watts	Color Temp	Finish
HBLED	13		Silver/Aluminum
	13 = 13W	= Cool	A = Bronze
		Y = Warm	W = White
			B = Black
			VG = Verde Green



WSR LED Architectural Wall Sconce







Inverted available with WLU option only.

Specifications

Luminaire

Height: 7-1/4" (18.4 cm)

Width: 18" (45.7 cm)

Depth: 9" (22.8 cm)

Weight: 17 lbs (7.7 kg)



Optional Back Box (BBW)

Height: 4" (10.2 cm)

Width: 5-1/2" (14.0 cm)

Depth: 1-1/2" (3.8 cm)



Number WSR LED 1 10A700/40K SR4 M

Notes
Type LG

Hit the Tab key or mouse over the page to see all interactive elements

Introduction

The classic Architectural Wall Sconce is now available with the latest in LED technology. The result is a long-life, maintenance-free product with typical energy savings of 75% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity.

The WSR LED is ideal for replacing existing 50 – 175W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

Ordering Information

EXAMPLE: WSR LED 2 10A700/40K SR3 MVOLT DDBTXD

WSR LED	1		10A700	0/4₽	SR	4	MV					DDBX	(D				
Series	Light E	ingines	Performance Package		Distrib	ution	Voltage	Voltage Mounting		ge Mounting		Mounting		Mounting Options ³		Finish (requ	ired)
WSR LED	2 T	One engine 10 LEDs) Iwo engines 20 LEDs)	700 mA opti 10A700/30K 10A700/40K 10A700/50K	3000K 4000K 5000K	SR2 SR3 SR4	Type II Type III Type IV	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 480	(blank)	d included Surface mount d separately ² Surface-mounted back box Uptilt 5 degrees	PE SF DF DMG ELCW WLU PIR DS	installed Photoelectric cell, button type 4.5 Single fuse (120, 277, 347V) 4 Double fuse (208, 240, 480V) 4 0-10V dimming driver (no controls) Emergency battery backup 6 Wet location door for up orientation 7 Motion/ambient light sensor 8 Dual switching 9 separately Vandal guard Wire guard	DDBXD DBLXD DNAXD DWHXD DSSXD DDBTXD DBLBXD DNATXD DWHGXD DWHGXD DSSTXD	Dark bronze Black Natural aluminum White Sandstone Textured dark bronze Textured black Textured natural aluminum Textured white Textured sandstone				

Emergency Battery Operation

The emergency battery backup (ELCW option) is integral to the luminaire - no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

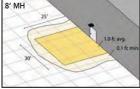
All ELCW configurations include an independent secondary driver with an integral relay to immediately detect AC power loss. Dual light engines are wired in parallel so both engines operate in emergency mode and provide additional component redundancy. These design features meet various interpretations of NFPA $70/NEC\ 2008\ -\ 700.16$

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the single-engine Type IV product in

emergency mode.

WST LED 1 10A700/40K SR4 MVOLT ELCW 10' x 10' Gridlines 8' and 12' Mounting Height





NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with photocell (PE), fusing (SF, DF), or dual switching (DS).
- 2 May also be ordered separately as an accessory. Ex: WSBBW DDBXD U. Must specify finish.
- Must be ordered with fixture; cannot be field installed.
- 4 Not available with MVOLT option. Button photocell (PE) can be ordered with a dedicated voltage option. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 5 Not available with 480V option. Not available with motion/ambient light sensor (PIR).
- 6 Integral battery pack is rated for -20° to 60°C operating temperature. ELCW warranty is 3-year period. Not available with 347V or 480V. Not available with WLU.
- 7 WLU not available with PIR or ELCW.
- 8 Specifies the SensorSwitch SFOD-7-ODP control (photocell included); see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with WLU, VG or WG.
- 9 Provides 50/50 luminaire operation via two independent drivers and light engines on two separate circuits. Not available with one engine, MVOLT, ELCW, WLU, SF, or DF. Must specify voltage; voltage must be the same for both drivers. When ordered with photocell (PE) or motion sensor (PIR), only the primary power source leads will be controlled.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Light Drive Current		Performance	System Watts	Dist.	40K (4000K, 70 CRI)					
Engines	(mA)	Package	(MVOLT ¹)	Туре	Nominal Lumens	В	U	G	LPW	
		0 10A700/K		SR2	2,005	1	0	1	84	
(10 LED-)	700		24W	SR3	2,029	1	0	1	84	
(10 LEDs)				SR4	1,959	1	0	1	82	
2				SR2	3,944	1	0	1	84	
2 (20 LEDs)	700	10A700/K	47W	SR3	4,028	1	0	1	86	
(20 LEDS)				SR4	3,851	1	0	1	82	

¹ See electrical load chart for 347/480V system watts.

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40 $^{\circ}$ C (32-104 $^{\circ}$ F).

Amb	Ambient					
0°C	32°F	1.10				
10°C	50°F	1.06				
20°C	68°F	1.02				
25°C	77°F	1.00				
30°C	86°F	0.98				
40°C	104°F	0.92				

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **WSR LED 2 10A700** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.88	0.77

Electrical Load

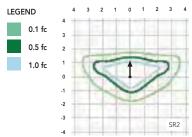
			Current (A)					
Light Engines	Drive Current (mA)	System Watts	120	208	240	277	347	480
1	700	24W	0.24	0.14	0.12	0.1	-	-
1		29W1	-	-	-	-	0.09	0.07
2	700	47W	0.44	0.27	0.23	0.20	-	-
2		53W1	-	-	-	-	0.17	0.12

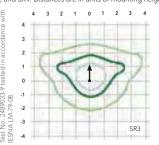
¹ Higher wattage is due to electrical losses from step-down transformer.

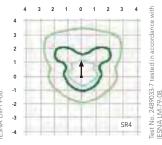
Photometric Diagrams

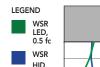
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WSR LED homepage.

Isofootcandle plots for the WSR LED 2 10A700/40K SR2, SR3, and SR4. Distances are in units of mounting height (12')

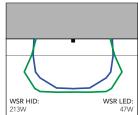








0.5 fc 10' W Sidewalk LLDs: WSR HID = 0.72 WSR LED = 0.95



Distribution overlay comparison to 175W metal halide

WSR LED 2 10A700 40K SR4, WSR 175M FT Probe, 12' Mounting Ht

FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WSR LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Precision-molded acrylic lenses are engineered for superior distribution, uniformity, and spacing in wall-mount applications. Light engines are 4000K (70 CRI). The WSR LED has zero uplight and qualifies as a Nighttime Friendly $^{\rm TM}$ product, meaning it is consistent with the LEED® and Green Globes $^{\rm TM}$ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L77). Class 2 electronic driver has a power factor >90%, +1MD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated and suitable for wet locations when mounted with the lenses down. WLU option offers wet location listing in "up" orientation. Rated for -30°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/ CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
<u> </u>	LH	4	Lithonia Lighting	CSX1 LED 60C 1000 40K T5M HS	CONTOUR SERIES LED AREA LUMINAIRE WITH 60 4000K LEDS OPERATED AT 1000MA AND PRECISION MOLDED ACRYLIC TYPE V LENS WITH HOUSE SIDE SHIELD	LED	1	CSX1_LED_60C_1000_40 K_T5M_HS.ies	13961	1	209
Ô	LI	3	Lithonia Lighting	CSX1 LED 60C 700 40K T5M HS	CONTOUR SERIES LED AREA LUMINAIRE WITH 60 4000K LEDS OPERATED AT 700mA AND PRECISION MOLDED ACRYLIC TYPE V LENS WITH HOUSE SIDE SHIELD	LED	1	CSX1_LED_60C_700_40K _T5M_HS.ies	10340	1	134
< 🗆	LG	3	Lithonia Lighting	WSR LED 1 10A700/40K SR4 MVOLT	WSR LED WITH 1 MODULE, 10 LEDfts, 700mA DRIVER, 4000K COLOR TEMPERATURE, TYPE 4 LENS	LED	1	WSR_LED_1_10A700_40K _SR4_MVOLT.ies	1927	1	24
$\stackrel{\wedge}{\triangle}$	LF	8	RAB LIGHTING, INC.	HBLED13 (WIDE FLOOD)	CAST METAL HOUSING, BROWN PAINTED FLAT METAL HEAT SINK MOUNTING PLATE, CAST BROWN PAINTED FINNED METAL HEAT SINK, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, 1 CIRCUIT BOARD EACH WITH 1 LED, CLEAI FLAT GLASS LENS IN CAST BROWN PAINTED METAL FRAME.	ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), AIMED AT THE HORIZON.	1	HBLED13A.ies	1500	1	14.2

Site Photometric Plan Notes:

 Site lighting fixtures (Type LH and LI) mounted to 25'-0" pole on 3'-0" concrete base.
 Flagpole & building facade fixtures (Type LF) are ground mounted and aimed appropriately to eliminate any glare. 3. Building mounted wall pack fixture (Type LG) mounted at +8'-0".

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.4 fc	2.3 fc	0.6 fc	3.8:1	2.3:1

Designer 1/15/2018 Scale Not to Scale Drawing No. Summary

Plan View
Scale - 1" = 17'

 $^{+}1.1$ $^{-}1.1$ $^{+}1.1$ $^{+}1.2$ $^{+}1.2$ $^{+}1.1$ $^{+}1.1$ $^{+}1.1$ $^{+}1.2$ $^{+}1.4$ $^{+}1.6$ $^{+}1.9$ $^{+}2.2$ $^{+}2.2$ $^{+}2.2$ $^{+}2.1$ $^{+}1.7$ $^{+}1.5$ $^{+}1.3$ $^{+}1.2$ $^{+}1.2$ $^{+}1.3$ $^{+}1.4$ $^{+}$

 $^{+}1.0$ $^{+}1.0$ $^{+}1.0$ $^{+}1.0$ $^{+}1.0$ $^{+}1.1$ $^{+}1.1$ $^{+}1.3$ $^{+}1.6$ $^{+}1.7$ $^{+}1.8$ $^{+}2.1$ $^{+}2.2$ $^{+}2.1$ $^{+}1.9$ $^{+}1.7$ $^{+}1.6$ $^{+}1.5$ $^{+}1.2$ $^{+}1.1$ $^{+}$

|-----

 $^{\dagger}0.9$ $^{\dagger}1.0$ $^{\dagger}1.1$ $^{\dagger}1.1$ $^{\dagger}1.2$ $^{\dagger}1.4$ $^{\dagger}1.5$ $^{\dagger}1.5$ $^{\dagger}1.8$ $^{\dagger}2.2$ $^{\dagger}2.3$ $^{\dagger}2.0$ $^{\dagger}1.6$ $^{\dagger}1.5$ $^{\dagger}1.4$ $^{\dagger}1.1$ $^{\dagger}0.9$ $^{\dagger}0.7$ $^{\dagger}0.7$ $^{\dagger}0.6$ $^{\dagger}0.6$

+1.1 +1.0 +1.2 +1.3 +1.4 +1.4 +1.5 +1.5 +1.6 +1.7 +1.9 +2.0 +1.8 +1.6 +1.5 +1.4 +1.3 +1.0 +0.9 +0.9 +0.9 +0.9 +0.9 +0.9

1-----

[†]0.9 [†]1.3 [†]1.7 [†]1.7 [†]1.8 [†]2.0 [†]1.5

⁺0.9 ⁺1.4 ⁺1.6 ⁺1.6 ⁺1.5 ⁺1.6 ⁺1.2

[†]0.9 [†]1.2 [†]1.4 [†]1.4 [†]1.4 [†]1.4 [†]0.9

[†]0.8 [†]1.1 [†]1.2 [†]1.3 [†]1.4 [†]1.4 [†]1.0

[†]0.7 [†]0.9 [†]1.1 [†]1.3 [†]1.3 [†]1.2 [†]0.9

1.6 Table 1.7 Table 1.8 Ta

0.8 ⁺1.3 ⁺1.6 ⁺1.8 ⁺1.8 ⁺2.1 ⁺1.9

1.0 ° 1.3 ° 1.7 ° 1.8 ° 1.9

[†]0.9
[†]1.3
[†]1.7
[†]1.8
[†]2.0

 $\begin{picture}(100,0) \put(0,0) \put(0$

<u>_____</u>

⁺1.3 ⁺1.5

[†]0.7 [†]1.6 [†]1.9 [†]1.8 [†]1.7 [†]1.5 [†]1.2 [†]0<mark>.</mark>8

[†]0.7 [†]1.8 [†]2.0 [†]1.8 [†]1.7 [†]1.5 [†]1.2 [†]0.7

 $^{+}0.6$ $^{+}1.6$ $^{+}1.6$ $^{+}1.7$ $^{+}1.7$ $^{+}1.5$ $^{-}$ $^{+}1.1$ $^{+}0.6$

⁺1.1 ⁺1.9 ⁺1.9 ⁺1.7 ⁺1.6 ⁺1.4 ⁺1.0 ⁺0.6

[†]0.9 [†]1.7 [†]1.8 [†]1.7 [†]1.5 [†]1.1 [†]0.**6**

[†]0.7 [†]1.8 [†]1.9 [†]1.9 [†]1.7 [†]1.5 [†]1.2 [†]0.7

⁺1.4 ⁺1.3

1 of 1

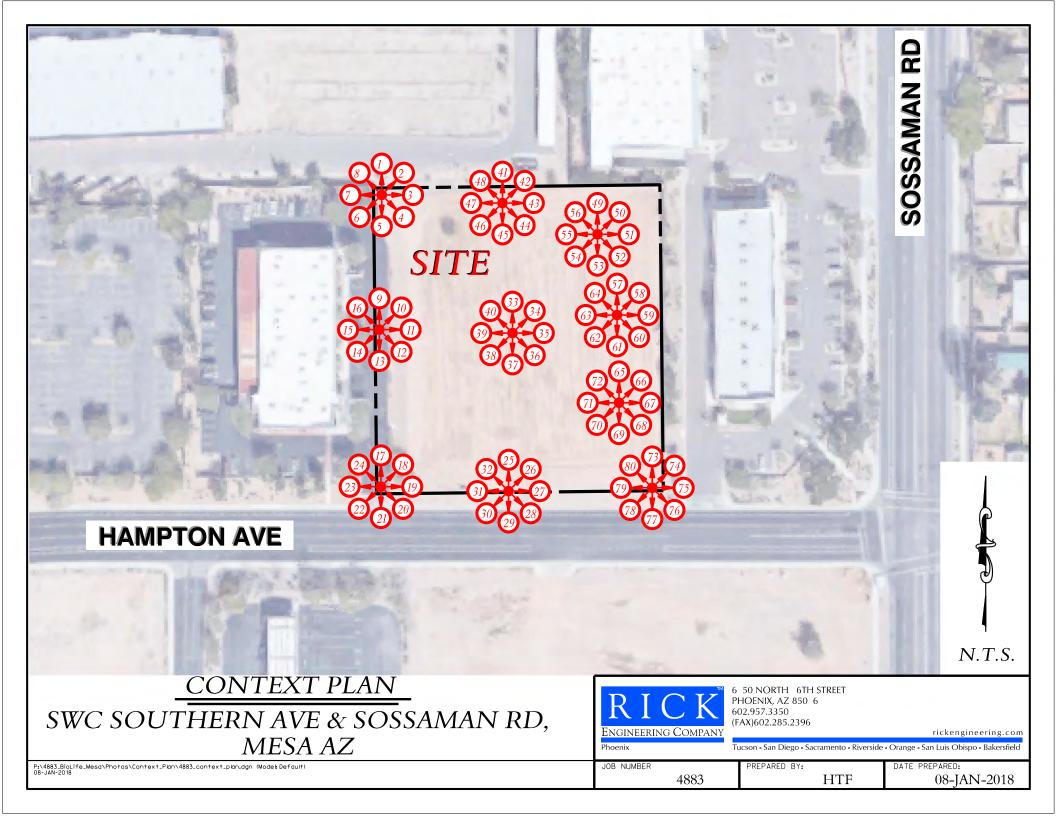




Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 5:



Photo 6:



BioLife - Mesa - SWC Southern and Sossaman, Mesa AZ



Photo 7:



Photo 10:



Photo 8:



Photo 11:



Photo 9:



Photo 12:





Photo 13:



Photo 16:



Photo 14:



Photo 17:



Photo 15:



Photo 18:





Photo 19:



Photo 20:



Photo 21:



Photo 22:



Photo 23:



Photo 24:





Photo 25:



Photo 28:



Photo 26:



Photo 29:



Photo 27:



Photo 30:





Photo 31:



Photo 34:



Photo 32:



Photo 35:



Photo 33:



Photo 36:





Photo 37:



Photo 40:



Photo 38:



Photo 41:



Photo 39:



Photo 42:



BioLife - Mesa - SWC Southern and Sossaman, Mesa AZ



Photo 43:



Photo 44:



Photo 45:



Photo 46:



Photo 47:



Photo 48:





Photo 49:





Photo 50:



Photo 53:



Photo 51:



Photo 54:





Photo 55:



Photo 56:



Photo 57:



Photo 58:



Photo 59:



Photo 60:





Photo 61:



Photo 64:



Photo 62:



Photo 65:



Photo 63:



Photo 66:





Photo 67:



Photo 68:



Photo 69:



Photo 70:



Photo 71:



Photo 72:





Photo 73:



Photo 76:



Photo 74:



Photo 77:



Photo 75:



Photo 78:





Photo 79:



Photo 80:



Existing Bio Life Plasma Centers







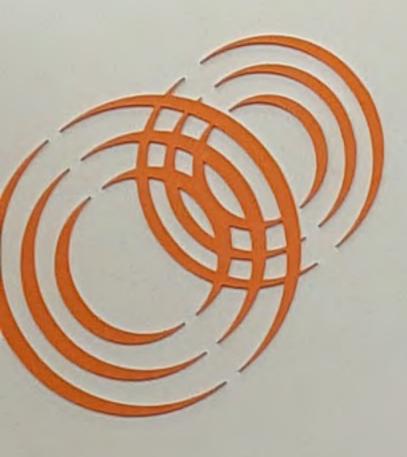












BioLife PLASMAS SERVICES













