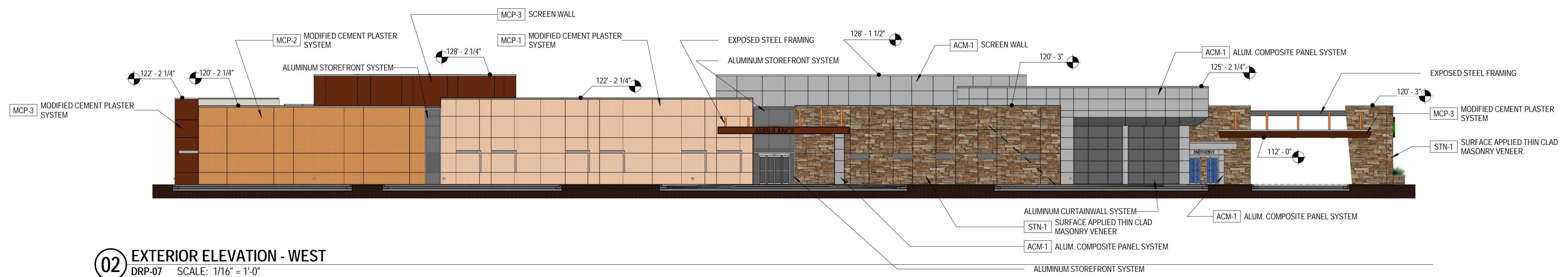
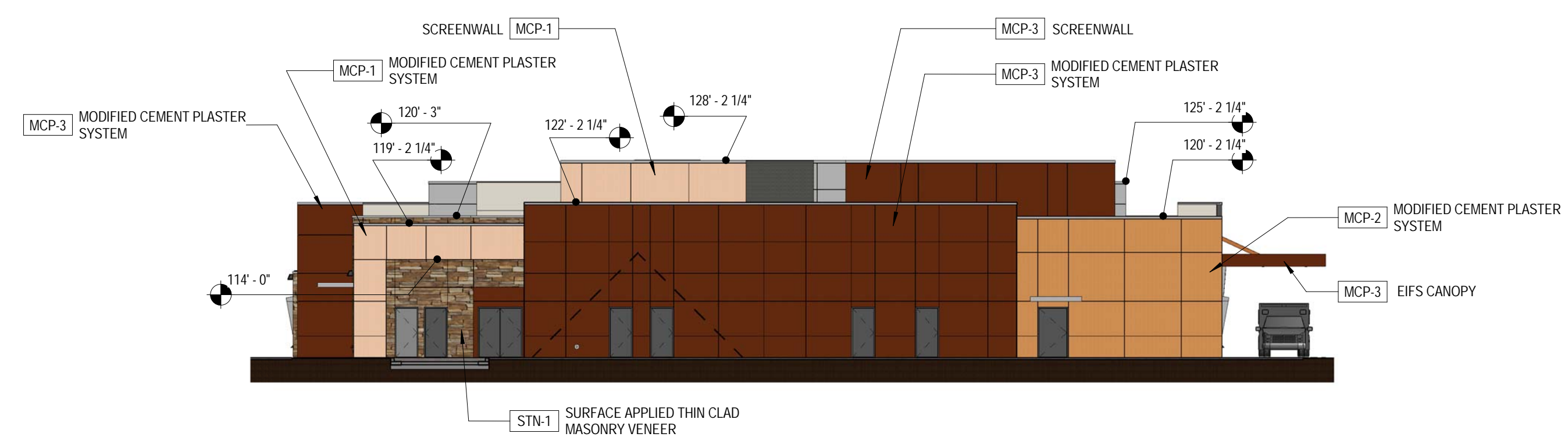


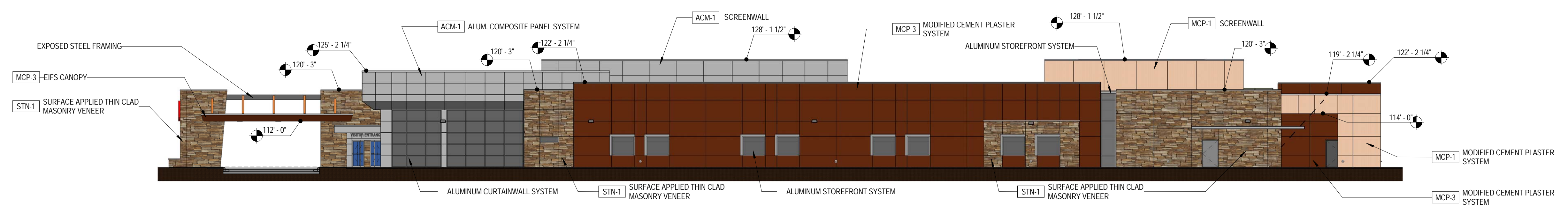
01 EXTERIOR ELEVATION - SOUTH
DRP-07 SCALE: 1/16" = 1'-0"



02 EXTERIOR ELEVATION - WEST
DRP-07 SCALE: 1/16" = 1'-0"



03 EXTERIOR ELEVATION - NORTH
DRP-07 SCALE: 1/16" = 1'-0"



04 EXTERIOR ELEVATION - EAST
DRP-07 SCALE: 1/16" = 1'-0"

EXTERIOR MATERIAL GENERAL NOTES

- CONTROL JOINTS ARE TO BE PROVIDED CONSISTENT WITH BUILDING ELEVATIONS. MAXIMUM PORTLAND CEMENT STUCCO PANEL SIZE SHALL NOT EXCEED 144 SQ. FT. FROM CONTROL JOINT TO CONTROL JOINT(S) AT ANY EXTERIOR LOCATION. PROVIDE VERTICAL PROPRIETARY REVEAL AT THE CORNER OF A CHANGE IN PORTLAND CEMENT STUCCO COLOR. REF. ELEV.
- MASONRY EXPANSION AND CONTROL JOINTS ARE TO BE PROVIDED PER MANUFACTURER AND TRADE INDUSTRY STANDARDS
- MATCH MORTAR COLOR
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT
- IDENTIFIED DIMENSIONS ARE TO ROUGH OPENINGS. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMMODATE NOTED JOINT WIDTHS
- REFERENCE SPECIFICATIONS FOR EXTERIOR MATERIAL FINISH AND COLORS

EXTERIOR MATERIAL COLOR LEGEND

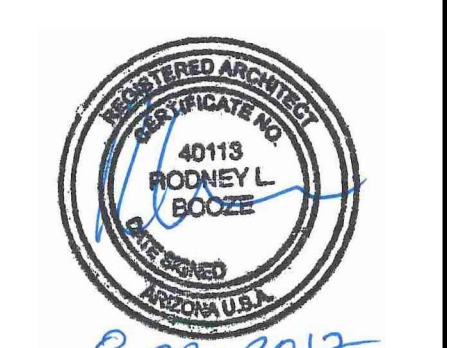
- ADHERED MANUFACTURED STONE MASONRY VENEER (THIN STONE)
STN-1 - ELDORADO STONE - MOUNTAIN LEDGESTONE - SHASTA
- ALUMINUM COMPOSITE PANEL SYSTEM
ACM-1 - CLEAR ANODIZED
- MODIFIED CEMENT PLASTER SYSTEM
MCP-1 - DRYVIT #389 "SOUTHERN TAN"
- MODIFIED CEMENT PLASTER SYSTEM
MCP-2 - DRYVIT #426A "GOLDEN HARVEST"
- MODIFIED CEMENT PLASTER SYSTEM
MCP-3 - DRYVIT #374B "FUDGE"



DESIGN REVIEW PACKAGE

**ABRAZO COMMUNITY HEALTH NETWORK
MICRO HOSPITAL - MESA, AZ**
NEC BASELINE RD & SLATER DR
MESA, AZ 85206

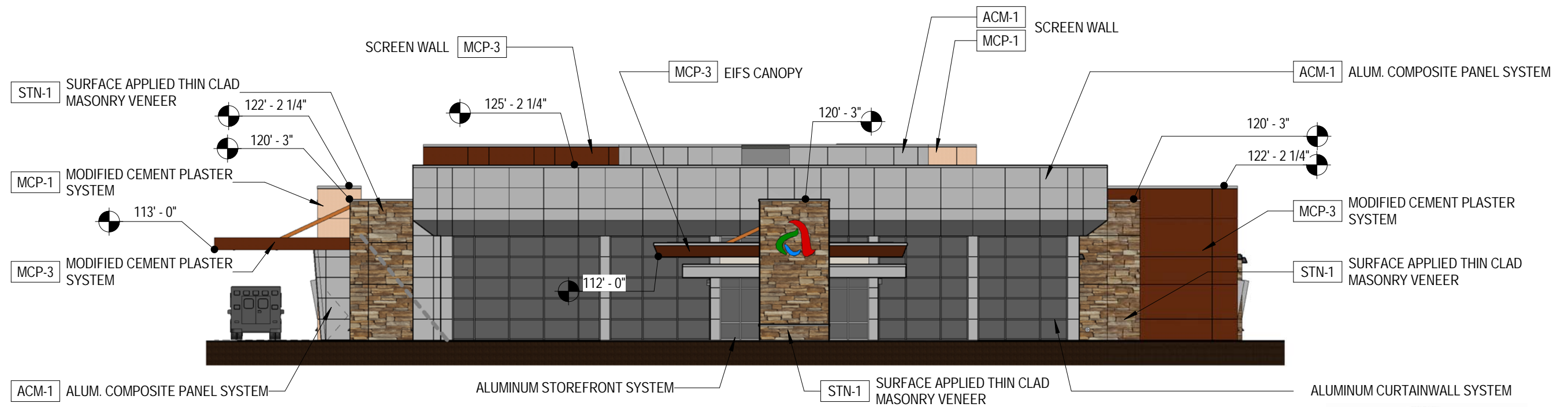
REV	DESCRIPTION	DATE



SEAL: 8-28-2017
EXPIRES: 12/31/2018
PROJECT NUMBER: 3017024
DATE: 28 August 2017
SHEET TITLE AND NUMBER:

DRP-07

COLOR ELEVATIONS



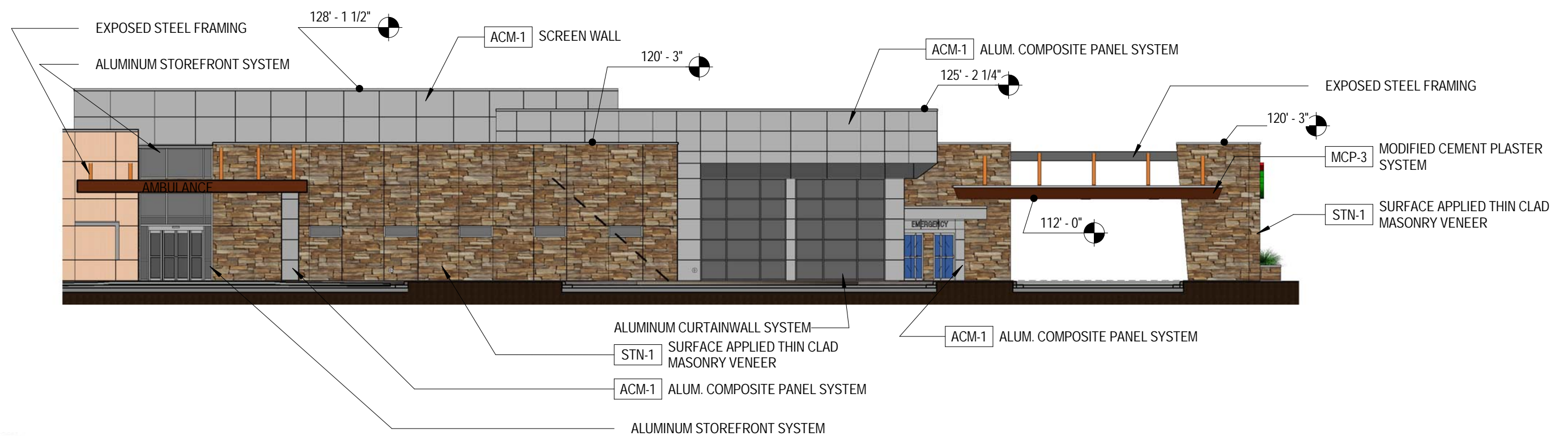
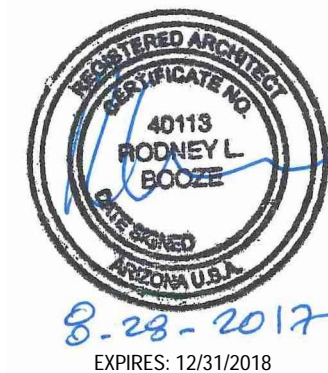
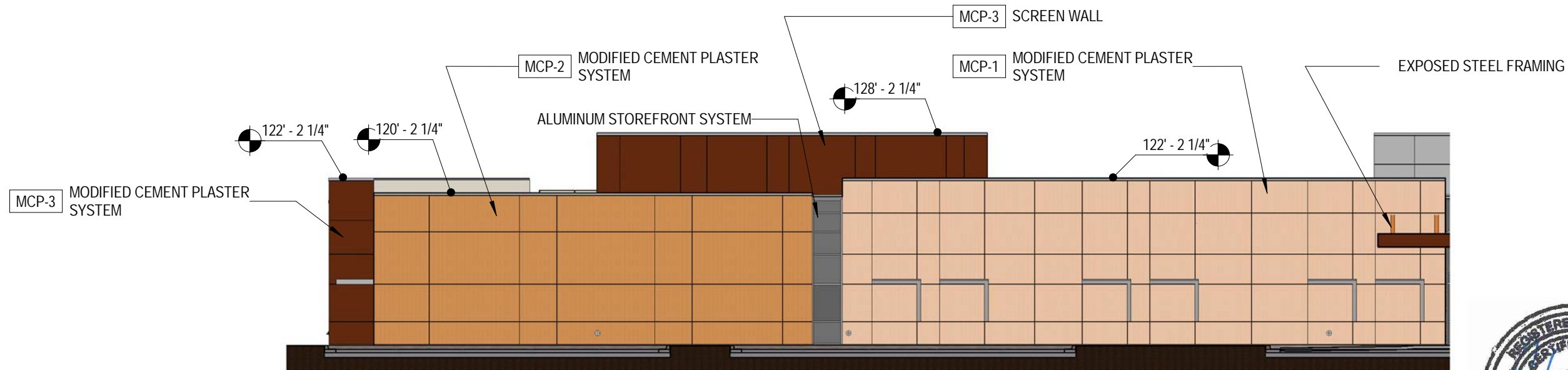
MICRO HOSPITAL - MESA, AZ

COLOR ELEVATION - SOUTH

28 August 2017



ascension group
 ENVIRONMENTS
 FOR HEALTH
 ARCHITECTURE

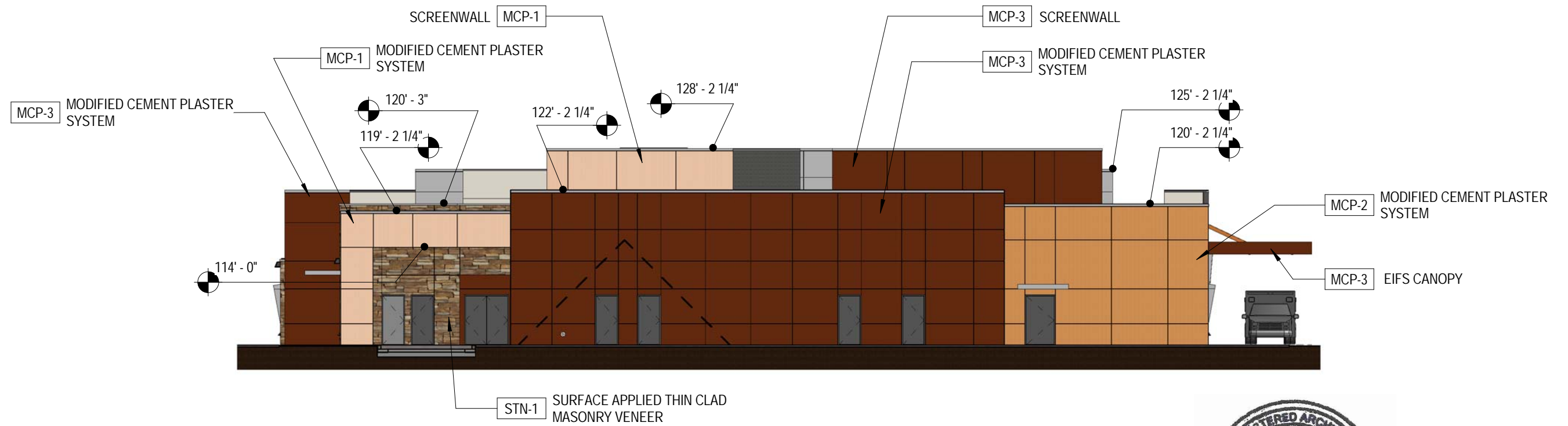


MICRO HOSPITAL - MESA, AZ

COLOR ELEVATION - WEST

28 August 2017



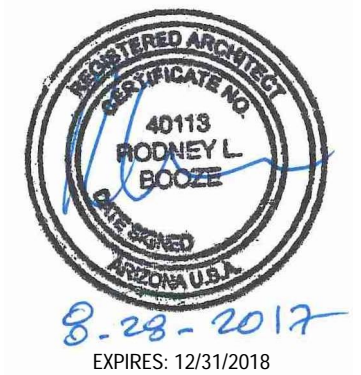
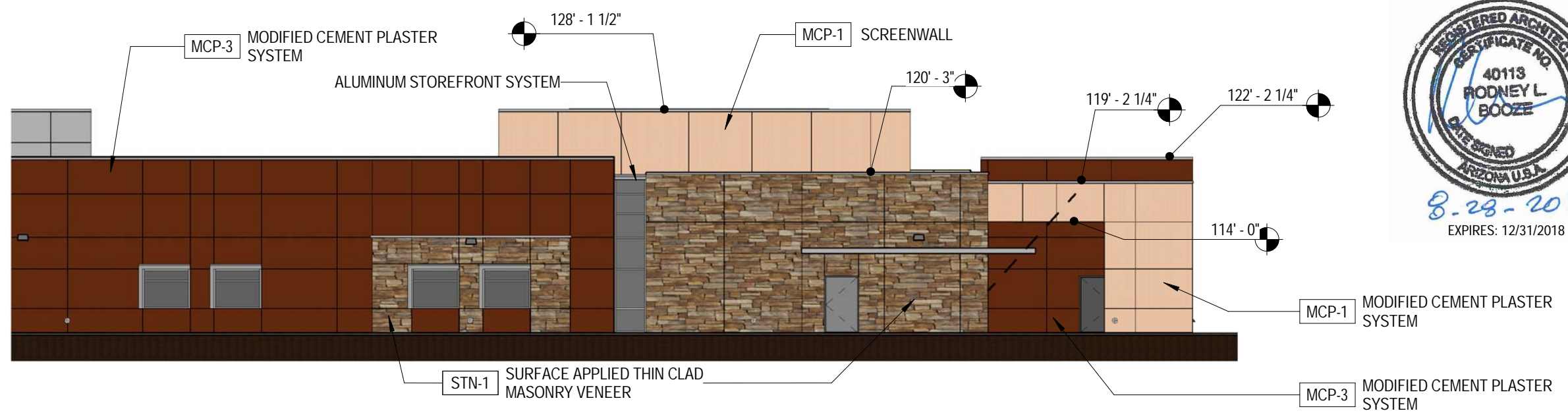
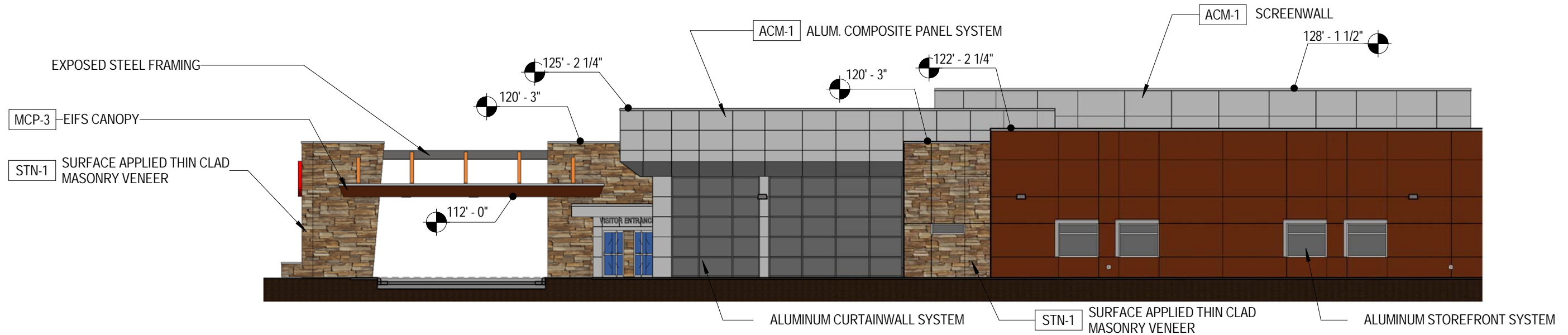


MICRO HOSPITAL - MESA, AZ

COLOR ELEVATION - NORTH

28 August 2017





MICRO HOSPITAL - MESA, AZ

COLOR ELEVATION - EAST

28 August 2017



ascension group
ENVIRONMENTS
FOR HEALTH
ARCHITECTURE

ABRAZO COMMUNITY HEALTH MICRO HOSPITAL - MESA, AZ

DESIGN REVIEW PACKAGE



OWNER TENET HEALTHCARE 1445 ROSS AVE. SUITE 1400 DALLAS, TX 75202 V: 469.893.2000 CONTACT: KENNETH SUTHERLAND	DEVELOPER USPI 1920 MAIN STREET, SUITE 250 IRVINE, CA 92614 V: 714.428.6769 CONTACT: RICHARD BECK	OPERATOR ABRAZO COMMUNITY HEALTH NET 10020 N. 25th AVE. PHOENIX, AZ 85021 V: 602.674.1410 CONTACT: KATHLEEN RONDEAU	ARCHITECT ENVIRONMENTS FOR HEALTH 1250 E. COPELAND RD. STE. 500 ARLINGTON, TX 76011 V: 817.226.1917 F: 817.226.1919 CONTACT: JEREMY PEARCE CONTACT: STUART COOK	STRUCTURAL AG&E 15280 ADDISON ROAD, SUITE 310 ADDISON, TX 75001 V: 214.520.7202 F: 214.520.7204 CONTACT: CHET EMMETT, P.E.	MEP SW ASSOCIATES 5429 LBJ FREEWAY, SUITE 300 DALLAS, TX 75240 V: 214.397.0211 F: 214.397.0886 CONTACT: MARK STRINGER	CIVIL KIMLEY-HORN AND ASSOCIATES, INC. 7740 N. 16th STREET, SUITE 300 PHOENIX, AZ 85020 V: 602.216.1234 CONTACT: TRAVER JONES	DIETARY FIVE OAKS KITCHEN DESIGN 10206 FIVE OAKS LANE MISSOURI CITY, TX 77459 V: 713.705.0952 F: 281.778.8536 CONTACT: ROBERT A. PURSELL	EQUIPMENT PLANNING MAZZETTI+GBA 1893 GENERAL GEORGE PATTON DRIVE FRANKLIN, TN 37067 V: 615.376.3100 CONTACT: TERRY ESQUIBELL
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01 CONCEPTUAL 3D RENDERING FROM SOUTHEAST
DRP-00 SCALE: 12" = 1'-0"

DESIGN REVIEW PACKAGE

ABRAZO COMMUNITY HEALTH NETWORK
MICRO HOSPITAL - MESA, AZ

NEC BASELINE RD & SLATER DR MESA, AZ 85206

REV	DESCRIPTION	DATE

SYMBOLS KEY

DRAFTING GRAPHICS	DRAWING NUMBER KEY
Room name (ERT01)	ROOM NAME AND NUMBER
(ERT01)	COLUMN REFERENCE GRID (LETTER, NUMBER)
(ERT01)	DOOR MARK
01/A101	SECTION
01/A101	DETAIL
(A)	WINDOW TYPE
(A3)	WALL TYPE
(A3)	COLOR MARK (LETTER) REVISION # (NUMBER)
(A3)	DIM TO FACE OF FINISH MATERIAL
(A3)	DIM TO
(A3)	LEVEL LINE
(A3)	ELEVATION
(A3)	NAME
(A3)	ELEVATION
(A3)	LEVEL LINE
(A3)	DISCIPLINE
(A3)	GENERAL ZONING
(A3)	ENERGY ANALYSIS
(A3)	CIVIL
(A3)	LANDSCAPE
(A3)	STRUCTURAL
(A3)	ARCHITECTURAL
(A3)	ARCHITECTURAL SITE
(A3)	INTERIOR DESIGN
(A3)	PLUMBING
(A3)	MECHANICAL
(A3)	ELECTRICAL
(A3)	FOOD SERVICE
(A3)	OTHERS
(A3)	NUMBER OF PLAN
(A3)	TOTAL NO. ON SHEET
(A3)	SHEET NO. OR KEYPLAN AREA NO.
(A3)	15/A-211C
(A3)	DISCIPLINE
(A3)	GENERAL ZONING
(A3)	ENERGY ANALYSIS
(A3)	CIVIL
(A3)	LANDSCAPE
(A3)	STRUCTURAL
(A3)	ARCHITECTURAL
(A3)	ARCHITECTURAL SITE
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(A3)	SHEET NO. OR KEYPLAN AREA NO.
(A3)	15/A-211C

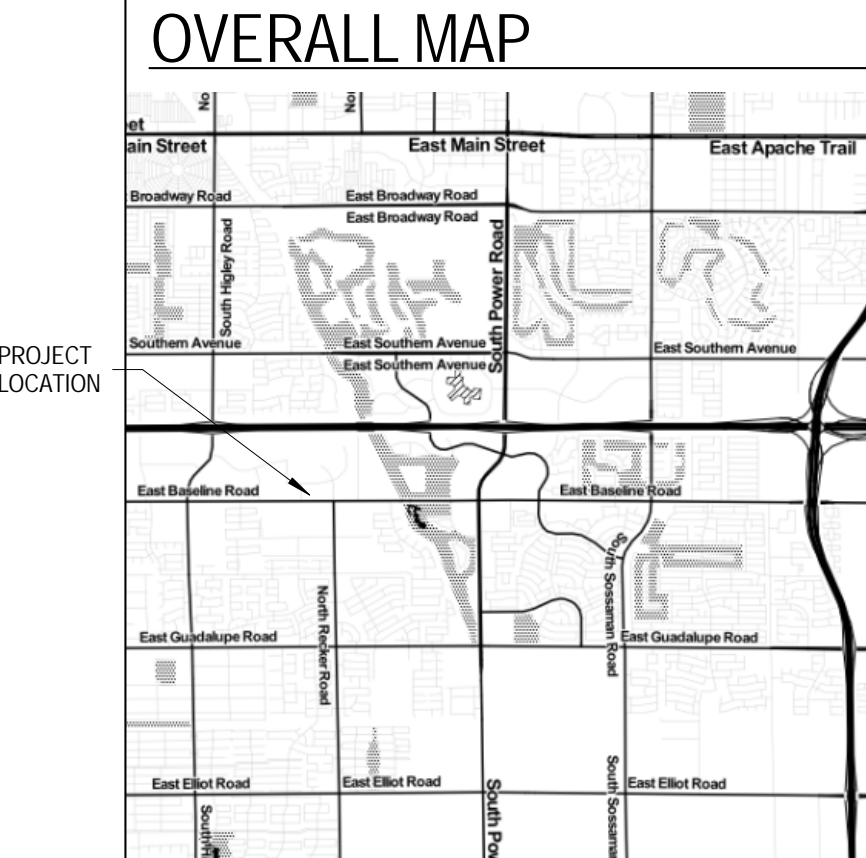
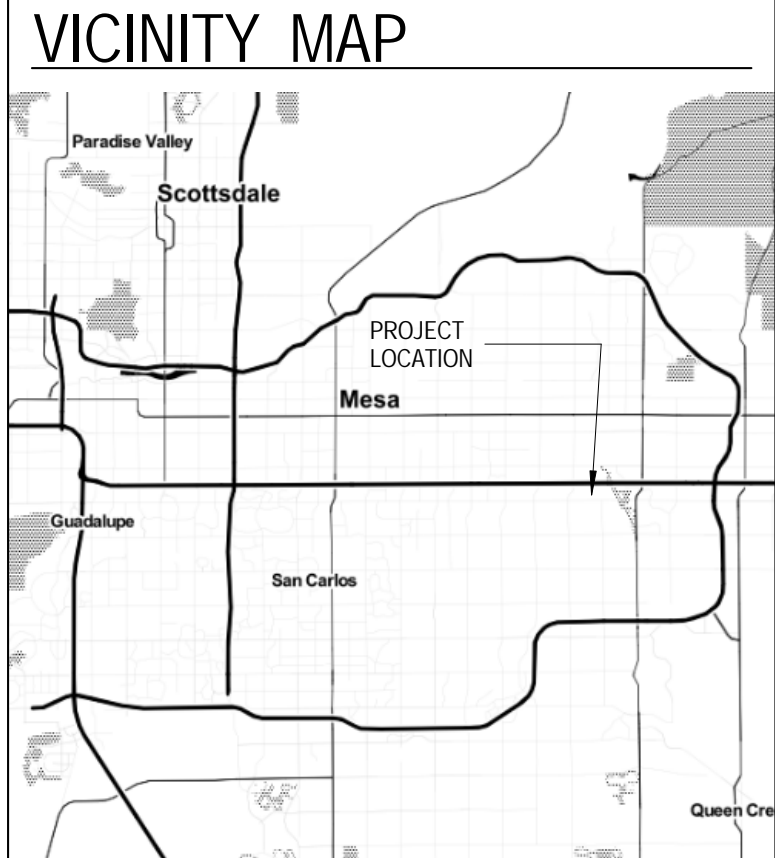
GENERAL NOTES

- DETAILS ON THE DRAWINGS ARE INTENDED AS TYPICAL OF ALL SIMILAR CONDITIONS THROUGHOUT THE PROJECT AND ARE NOT ISOLATED REQUIREMENTS.
- DETAILS, TYPICAL WALL TYPE CONSTRUCTION AND WALL TYPE INDICATIONS ARE DIAGRAMMATIC AND MUST BE REFERENCED TOGETHER WITH DOOR SCHEDULES, SECTIONS, ELEVATIONS, FINISH SCHEDULE, ETC. TO DETERMINE CORRECT CONSTRUCTION AND FINISH.
- THE CONSTRUCTION DOCUMENTS WITHIN THIS SET ARE NOT TO BE SCALED FOR MATERIAL TAKEOFFS, MATERIAL FABRICATION, OR CONSTRUCTION PURPOSES. THE CONTRACTOR IS TO RELY ON DIMENSIONS SHOWN ON THE DOCUMENTS, AND ANY DISCREPANCY IS TO BE DISCUSSED WITH THE ARCHITECT.
- NOTHING IN THE CONSTRUCTION DOCUMENTS, EITHER EXPRESSED OR IMPLIED, RELIEVES THE CONTRACTOR OF THE RESPONSIBILITY OF CONSTRUCTING THE PROJECT BASED ON APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND STANDARDS. THE LIST OF APPLICABLE CODES AND STANDARDS PROVIDED HEREIN IS MEANT AS A GUIDE. REFER TO THE ARCHITECT FOR ANY CLARIFICATION REQ'D.
- "LINE OF STRUCTURE" IS DEFINED AS BOTTOM OF DECK. THE GYPSUM BOARD OF THE PARTITIONS REQUIRED TO EXTEND TO THE DECK IS TO BE CUT TO FIT. THE FLUTES AND THE ASSEMBLY ARE TO BE COMPLETELY SEALED TO THE DECK WITH FIRE SEALANT. GAPS BETWEEN THE TOP OF THE PARTITION AND THE STRUCTURE WILL NOT BE ALLOWED. (REF. PARTITION TAGS ON PLAN & PARTITION TYPES ON SHEET A5.01 FOR ADDITIONAL INFO.)

SHEET INDEX LEGEND

SHEET NUMBER	SHEET NAME	ORIGINAL ISSUE DATE	DATE OF LAST REV. TO SHEET	NAME OF LAST REV. TO SHEET
A-311	EXTERIOR WALL SECTIONS	02 October 2017	10/20/2017	CITY COMMENTS

INDICATES SHEET IS INCLUDED IN CURRENT ISSUE



DESIGN REVIEW PACKAGE - SHEET LIST

Sheet Number	Sheet Name	Sheet Issue Date	Current Revision	Current Revision Date
DRP-00	3D RENDERING AND INDEX OF SHEETS	28 August 2017		
DRP-01	OVERALL FLOOR PLAN	28 August 2017		
DRP-02	FLOOR PLAN - AREA A	28 August 2017		
DRP-03	FLOOR PLAN - AREA B	28 August 2017		
DRP-04	ROOF PLAN	28 August 2017		
DRP-05	EXTERIOR ELEVATIONS	28 August 2017		
DRP-06	BUILDING SECTIONS	28 August 2017		
DRP-07	COLOR ELEVATIONS	28 August 2017		
DRP-08	COLOR ELEVATION - SOUTH	28 August 2017		
DRP-09	COLOR ELEVATION - WEST	28 August 2017		
DRP-10	COLOR ELEVATION - NORTH	28 August 2017		
DRP-11	COLOR ELEVATION - EAST	28 August 2017		
E1.01P	SITE PLAN PHOTOMETRICS	28 August 2017		



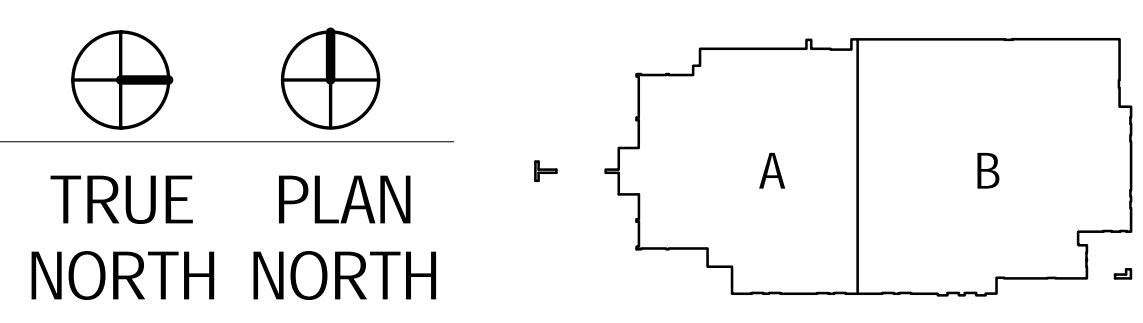
SEAL: EXPRES: 12/31/2018
PROJECT NUMBER: 3017024
DATE: 28 August 2017
SHEET TITLE AND NUMBER:

DRP-00
3D RENDERING AND INDEX OF SHEETS

8/25/2017 4:55:44 PM



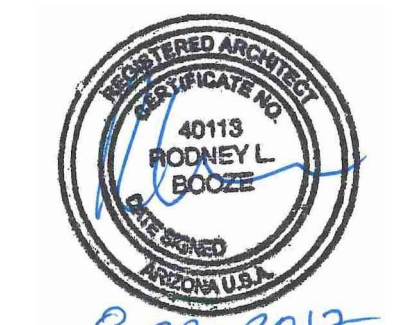
01 FINISH FLOOR - OVERALL 32,250 GSF
 DRP-01 SCALE: 3/32" = 1'-0"



DESIGN REVIEW PACKAGE

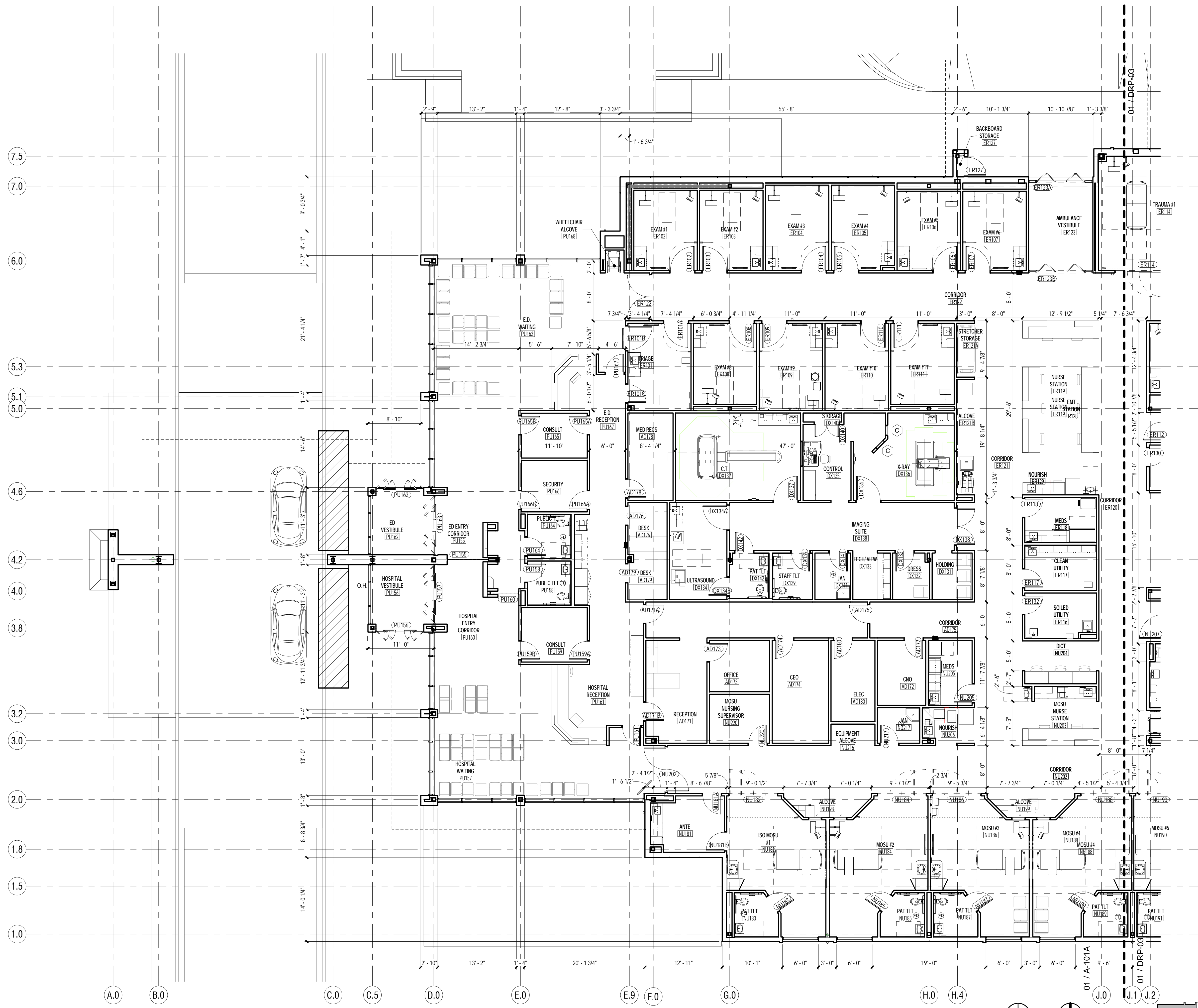
ABRAZO COMMUNITY HEALTH NETWORK
 MICRO HOSPITAL - MESA, AZ
 MESA, AZ 85206
 NEC BASELINE RD & SLATER DR

REV	DESCRIPTION	DATE



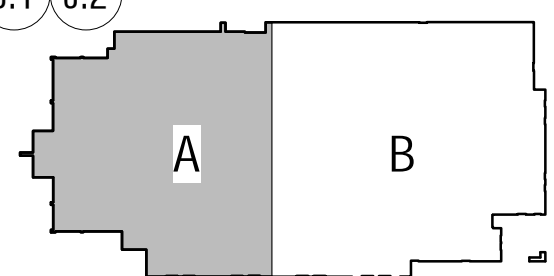
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 PROJECT NUMBER: 3017024
 DATE: 28 August 2017
 SHEET TITLE AND NUMBER:

DRP-01



01 FINISH FLOOR - AREA A
DRP-02 SCALE: 1/8" = 1'-0"

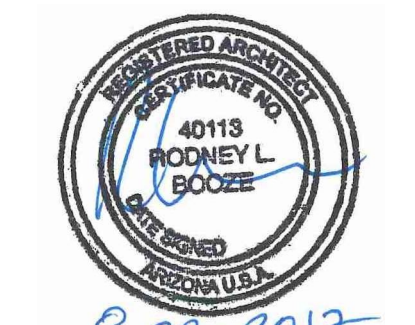
TRUE PLAN
NORTH NORTH



DESIGN REVIEW PACKAGE

ABRAZO COMMUNITY HEALTH NETWORK
MICRO HOSPITAL - MESA, AZ
MESA, AZ 85206
NEC BASELINE RD & SLATER DR

REV	DESCRIPTION	DATE



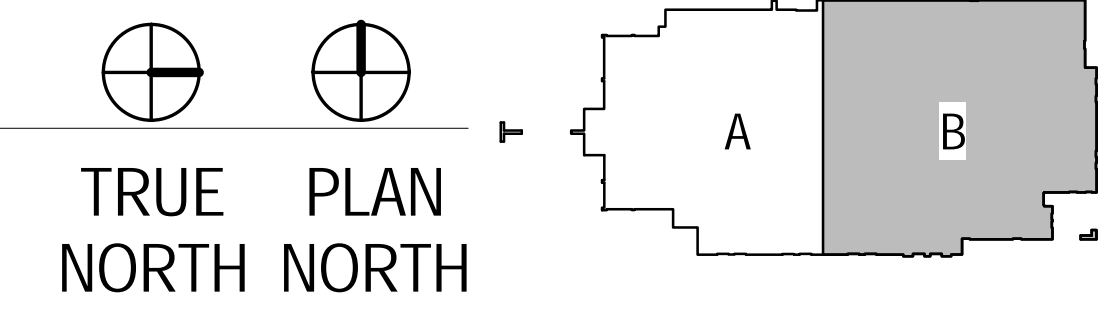
PROJECT NUMBER: 3017024
DATE: 28 August 2017
SHEET TITLE AND NUMBER:

DRP-02

8/25/2017 4:55:09 PM



01 FINISH FLOOR - AREA B
 DRP-03 SCALE: 1/8" = 1'-0"



DESIGN REVIEW PACKAGE

**ABRAZO COMMUNITY HEALTH NETWORK
 MICRO HOSPITAL - MESA, AZ**
 MESA, AZ 85206
 NEC BASELINE RD & SLATER DR

REV	DESCRIPTION	DATE



PROJECT NUMBER: 3017024
 DATE: 28 August 2017
 SHEET TITLE AND NUMBER:

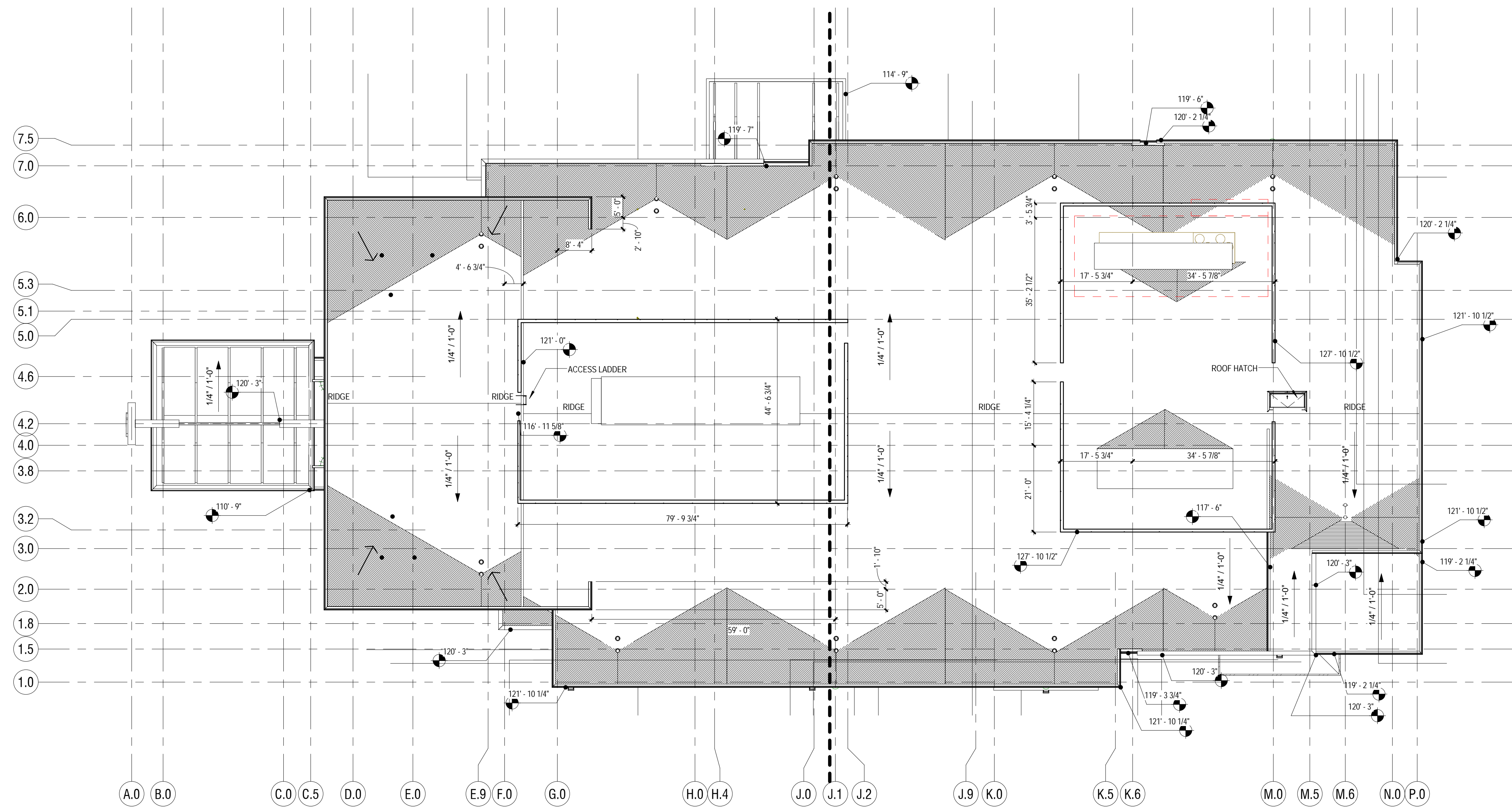
DRP-03

ROOF PLAN GENERAL NOTES

1. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL TO DIMENSIONALLY TIE DOWN LOCATIONS FOR PIPING, CURBS, VENTS, DUCTS, FANS, AND OTHER ITEMS ON THE ROOF SURFACE.
2. PAINT EXPOSED ROOF MOUNTED EQUIPMENT, PIPING, ETC. IN COLOR AS SELECTED BY THE ARCHITECT, EXCEPT THOSE ITEMS WHICH ARE ALUMINUM OR STAINLESS STEEL.
3. ALL ROOF FLASHING TO BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. THE GENERAL CONTRACTOR SHALL VERIFY THAT THERE IS PROPER COORDINATION BETWEEN THE ROOFING CONTRACTOR AND THE PLUMBING CONTRACTOR SO THAT ALL ROOF DRAINS ARE SET AT A "LOW POINT" AND SO THAT ALL AREAS OF ALL ROOFS SLOPE TO A ROOF DRAIN.
5. REF. TO 'A1' SERIES FOR TYP. ROOF DETAILS.
6. ALL ROOF ACCESS, MECHANICAL EQUIPMENT, OR OTHER COMPONENTS THAT REQUIRES SERVICE THAT IS LOCATED WITHIN 15 FEET OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW SHALL HAVE A GUARD PER IBC 1013.5. SEE 'A1' SERIES FOR GUARD DETAIL.

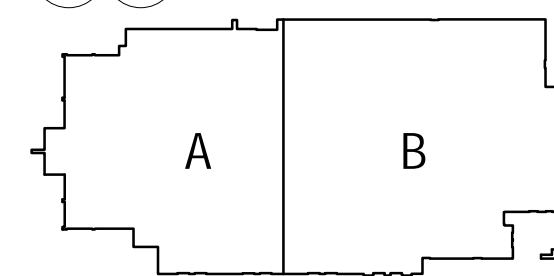
ROOF LEGEND

- SLOPE 1/4" PER FOOT MINIMUM - FLOW TO DRAIN.
- XXX-X' T.O.P. TOP OF PARAPET ELEVATION
- ⊕ ROOF DRAIN



01 ROOF PLAN
DRP-04 SCALE: 1/16" = 1'-0"

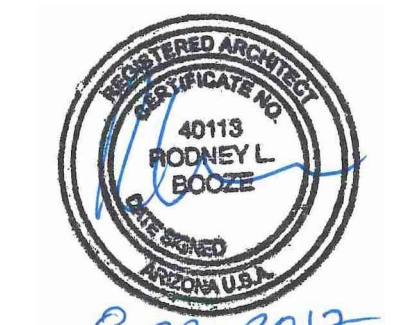
⊕ ⊕
TRUE PLAN
NORTH NORTH



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ABRAZO COMMUNITY HEALTH NETWORK
MICRO HOSPITAL - MESA, AZ
NEC BASELINE RD & SLATER DR
MESA, AZ 85206

REV	DESCRIPTION	DATE



SEAL: 8-28-2017
PROJECT NUMBER: 3017024
DATE: 28 August 2017
SHEET TITLE AND NUMBER:

DRP-04

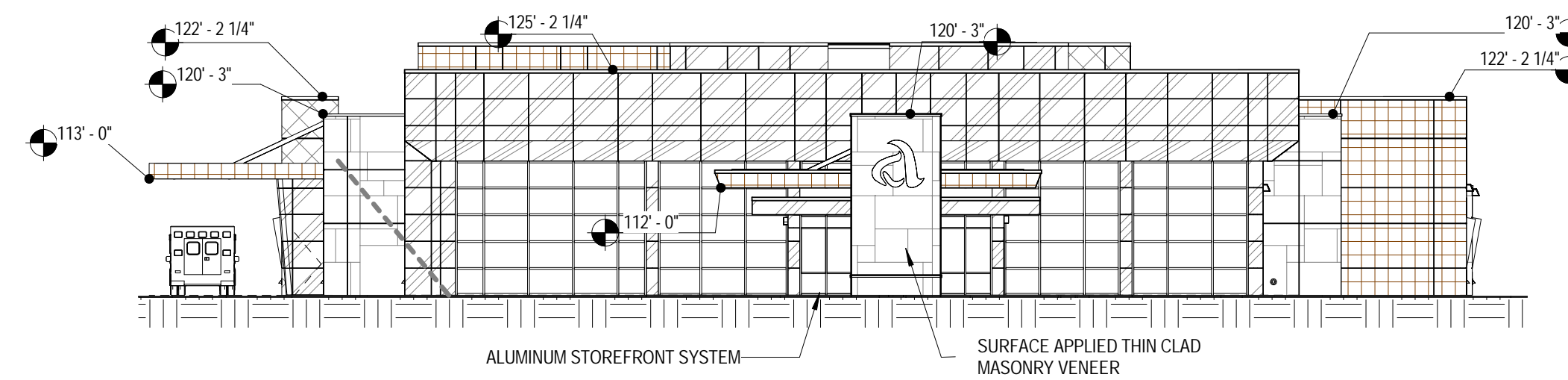
ROOF PLAN

EXTERIOR MATERIAL GENERAL NOTES

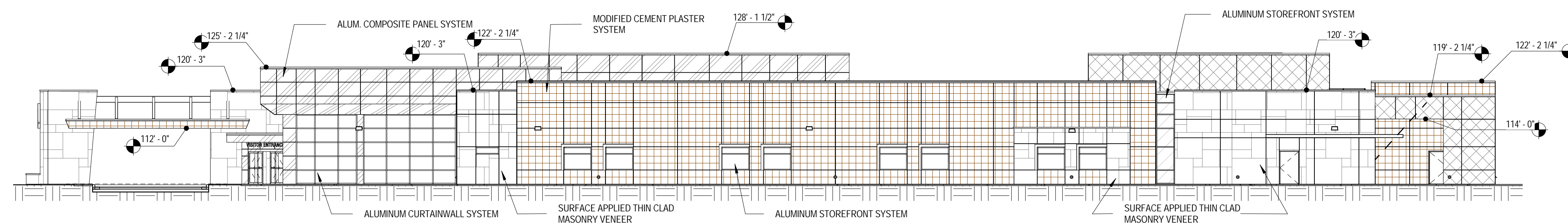
- CONTROL JOINTS ARE TO BE PROVIDED CONSISTENT WITH BUILDING ELEVATIONS. MAXIMUM PORTLAND CEMENT STUCCO PANEL SIZE SHALL NOT EXCEED 144 SQ. FT. FROM CONTROL JOINT TO CONTROL JOINT(S) AT ANY EXTERIOR LOCATION. PROVIDE VERTICAL PROPRIETARY REVEAL AT THE CORNER OF A CHANGE IN PORTLAND CEMENT STUCCO COLOR. REF. ELEV.
- MASONRY EXPANSION AND CONTROL JOINTS ARE TO BE PROVIDED PER MANUFACTURER AND TRADE INDUSTRY STANDARDS
- MATCH MORTAR COLOR
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT
- IDENTIFIED DIMENSIONS ARE TO ROUGH OPENINGS. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMMODATE NOTED JOINT WIDTHS
- REFERENCE SPECIFICATIONS FOR EXTERIOR MATERIAL FINISH AND COLORS

EXTERIOR MATERIAL COLOR LEGEND

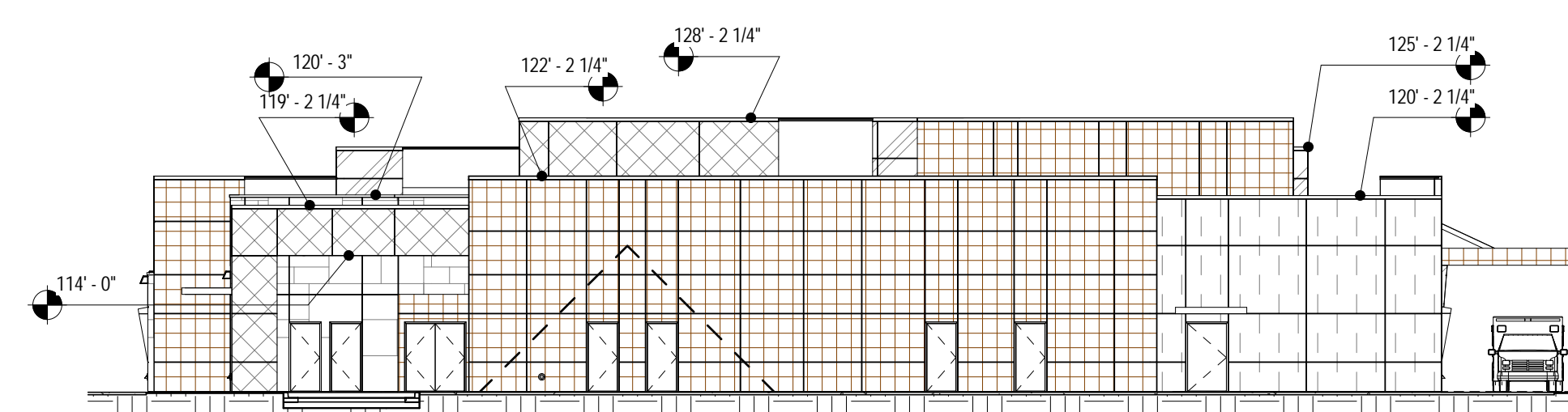
- ADHERED MANUFACTURED STONE MASONRY VENEER (THIN STONE)
STN-1 - ELDORADO STONE - MOUNTAIN LEDGESTONE - SHASTA
- ALUMINUM COMPOSITE PANEL SYSTEM
ACM-1 - CLEAR ANODIZED
- MODIFIED CEMENT PLASTER SYSTEM
MCP-1 - DRYVIT #389 "SOUTHERN TAN"
- MODIFIED CEMENT PLASTER SYSTEM
MCP-2 - DRYVIT #426A "GOLDEN HARVEST"
- MODIFIED CEMENT PLASTER SYSTEM
MCP-3 - DRYVIT #374B "FUDGE"



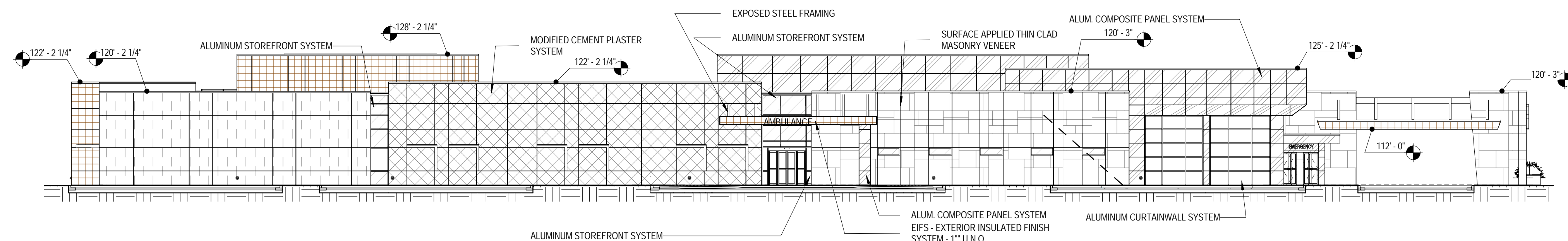
01 EXTERIOR ELEVATION - SOUTH
DRP-05 SCALE: 1/16" = 1'-0"



02 EXTERIOR ELEVATION - EAST
DRP-05 SCALE: 1/16" = 1'-0"

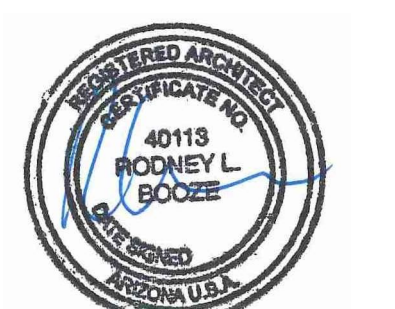


03 EXTERIOR ELEVATION - NORTH
DRP-05 SCALE: 1/16" = 1'-0"



04 EXTERIOR ELEVATION - WEST
DRP-05 SCALE: 1/16" = 1'-0"

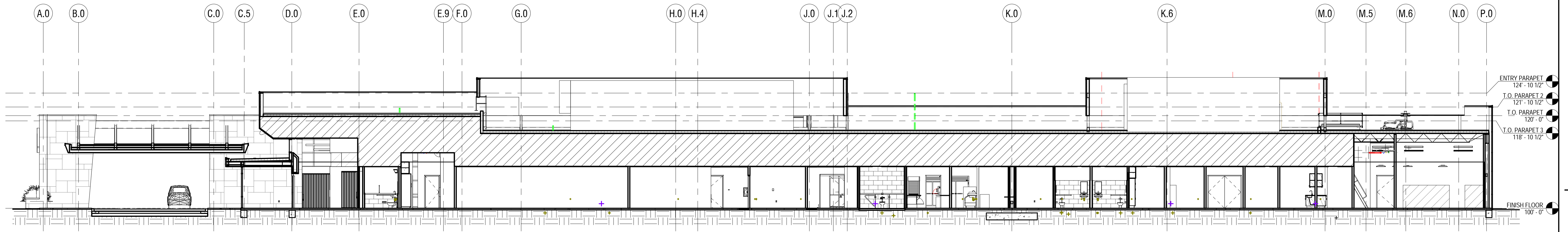
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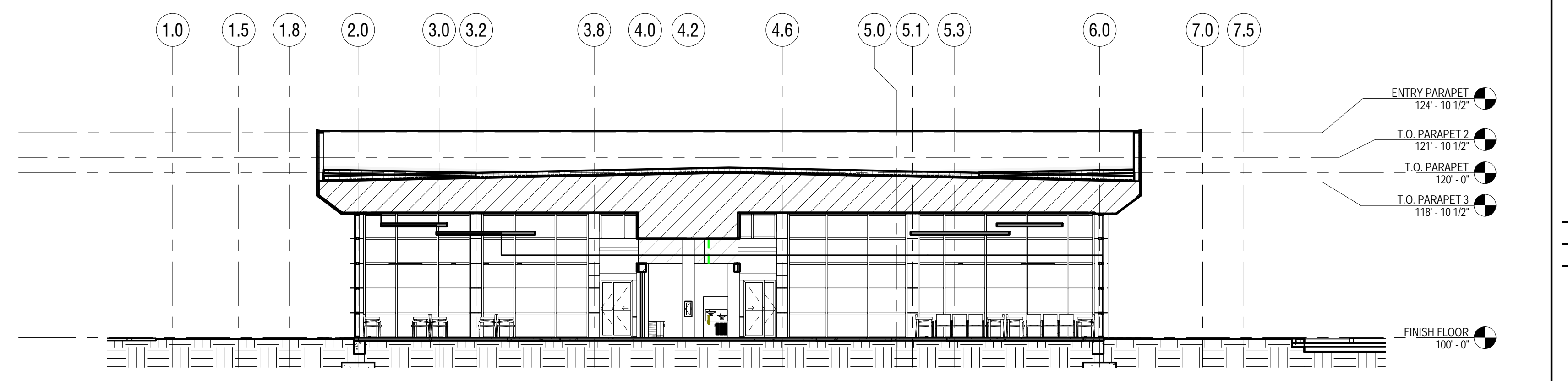
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PROJECT NUMBER: 3017024
DATE: 28 August 2017
SHEET TITLE AND NUMBER:

DRP-05

8/25/2017 4:56:20 PM



01 LONGITUDINAL BUILDING SECTION
DRP-06 SCALE: 3/32" = 1'-0"



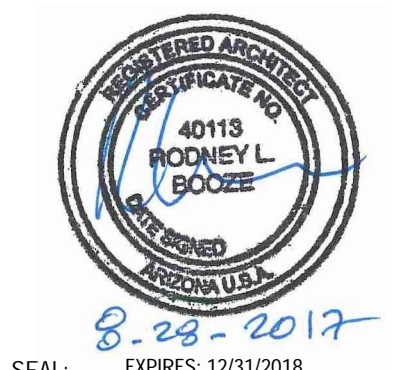
02 CROSS-SECTIONAL BUILDING SECTION
DRP-06 SCALE: 3/32" = 1'-0"



DESIGN
REVIEW
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ABRAZO COMMUNITY HEALTH NETWORK
MICRO HOSPITAL - MESA, AZ
NEC BASELINE RD & SLATER DR MESA, AZ 85206

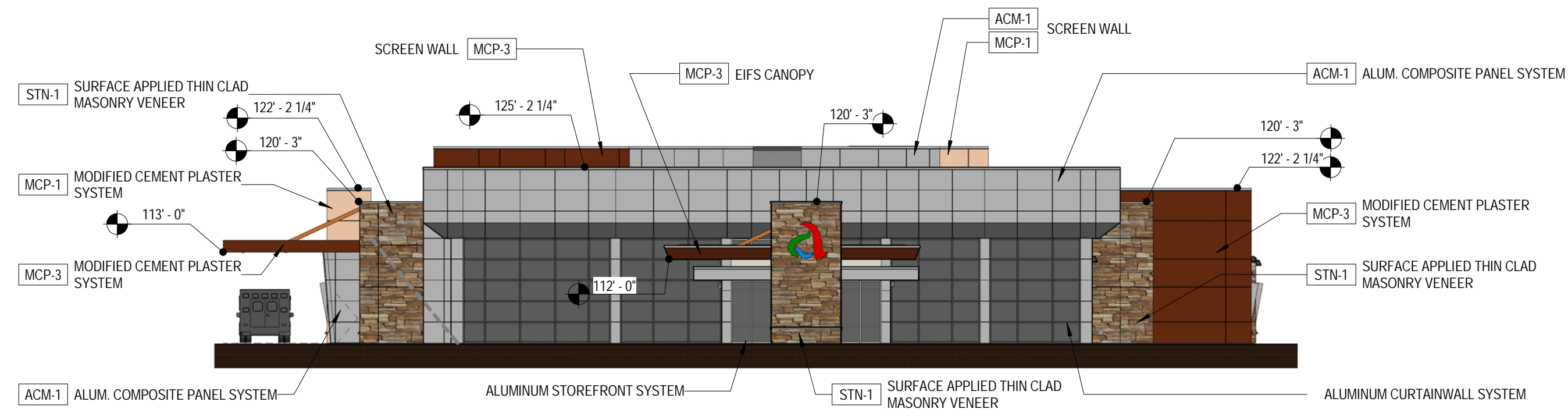
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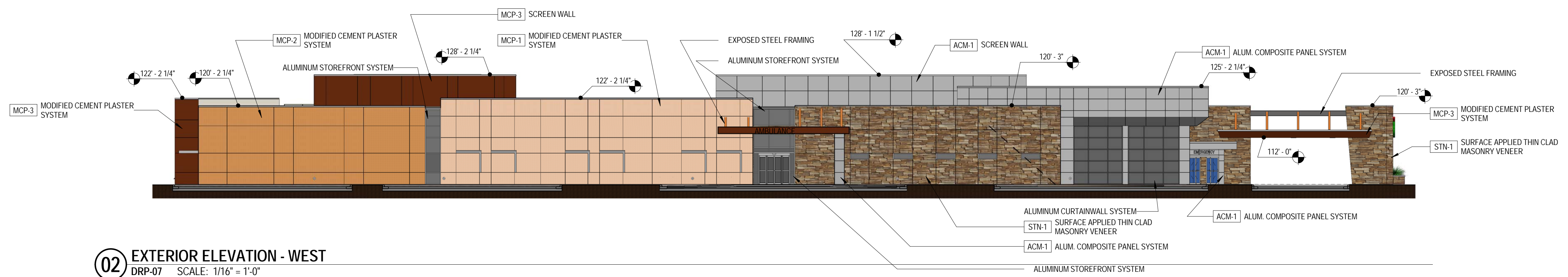
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PROJECT NUMBER: 3017024
DATE: 28 August 2017
SHEET TITLE AND NUMBER:

DRP-06

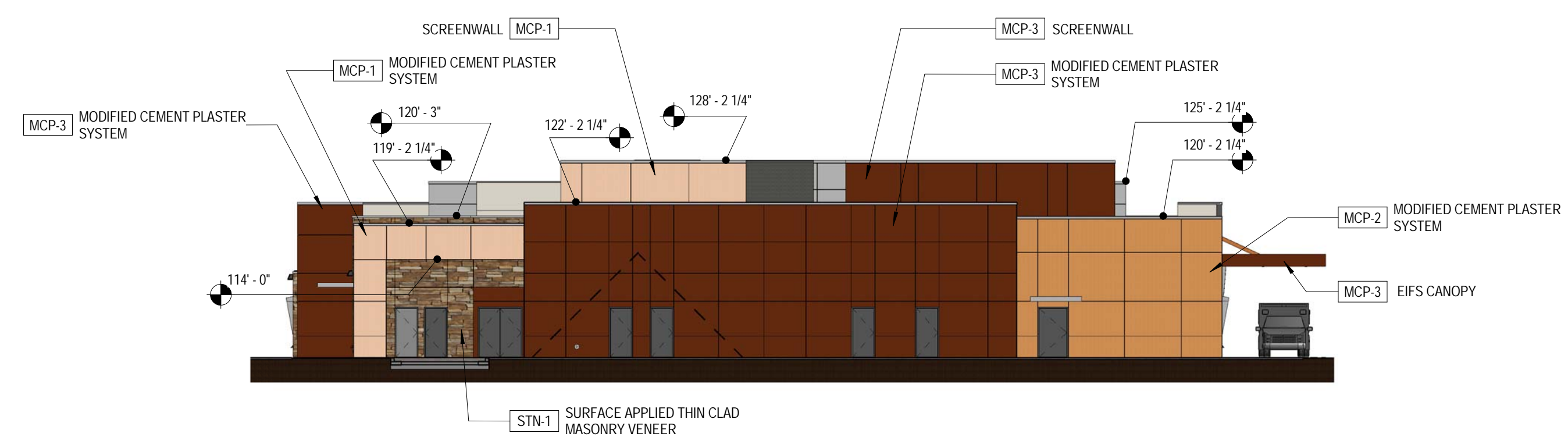
BUILDING SECTIONS



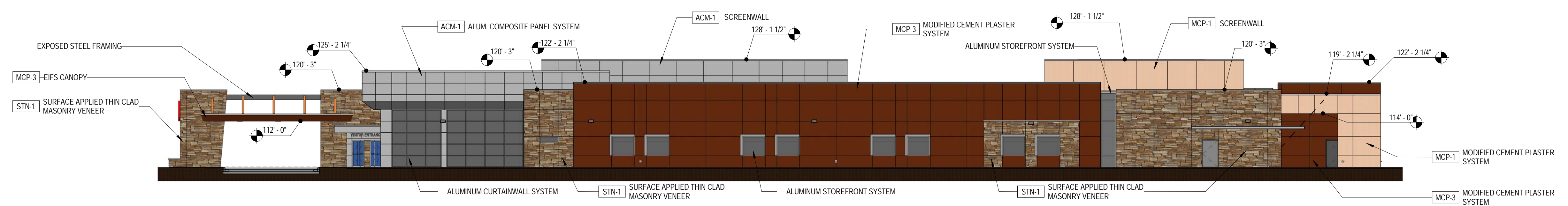
01 EXTERIOR ELEVATION - SOUTH
DRP-07 SCALE: 1/16" = 1'-0"



02 EXTERIOR ELEVATION - WEST
DRP-07 SCALE: 1/16" = 1'-0"



03 EXTERIOR ELEVATION - NORTH
DRP-07 SCALE: 1/16" = 1'-0"



04 EXTERIOR ELEVATION - EAST
DRP-07 SCALE: 1/16" = 1'-0"

EXTERIOR MATERIAL GENERAL NOTES

- CONTROL JOINTS ARE TO BE PROVIDED CONSISTENT WITH BUILDING ELEVATIONS. MAXIMUM PORTLAND CEMENT STUCCO PANEL SIZE SHALL NOT EXCEED 144 SQ. FT. FROM CONTROL JOINT TO CONTROL JOINT(S) AT ANY EXTERIOR LOCATION. PROVIDE VERTICAL PROPRIETARY REVEAL AT THE CORNER OF A CHANGE IN PORTLAND CEMENT STUCCO COLOR. REF. ELEV.
- MASONRY EXPANSION AND CONTROL JOINTS ARE TO BE PROVIDED PER MANUFACTURER AND TRADE INDUSTRY STANDARDS
- MATCH MORTAR COLOR
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT
- IDENTIFIED DIMENSIONS ARE TO ROUGH OPENINGS. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMMODATE NOTED JOINT WIDTHS
- REFERENCE SPECIFICATIONS FOR EXTERIOR MATERIAL FINISH AND COLORS

EXTERIOR MATERIAL COLOR LEGEND

- ADHERED MANUFACTURED STONE MASONRY VENEER (THIN STONE)
STN-1 - ELDORADO STONE - MOUNTAIN LEDGESTONE - SHASTA
- ALUMINUM COMPOSITE PANEL SYSTEM
ACM-1 - CLEAR ANODIZED
- MODIFIED CEMENT PLASTER SYSTEM
MCP-1 - DRYVIT #389 "SOUTHERN TAN"
- MODIFIED CEMENT PLASTER SYSTEM
MCP-2 - DRYVIT #426A "GOLDEN HARVEST"
- MODIFIED CEMENT PLASTER SYSTEM
MCP-3 - DRYVIT #374B "FUDGE"

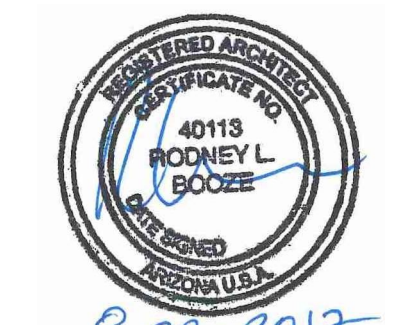


DESIGN REVIEW PACKAGE

**ABRAZO COMMUNITY HEALTH NETWORK
MICRO HOSPITAL - MESA, AZ**

NEC BASELINE RD & SLATER DR
MESA, AZ 85206

REV	DESCRIPTION	DATE



SEAL: EXPIRES: 12/31/2018
PROJECT NUMBER: 3017024
DATE: 28 August 2017
SHEET TITLE AND NUMBER:

DRP-07

COLOR ELEVATIONS

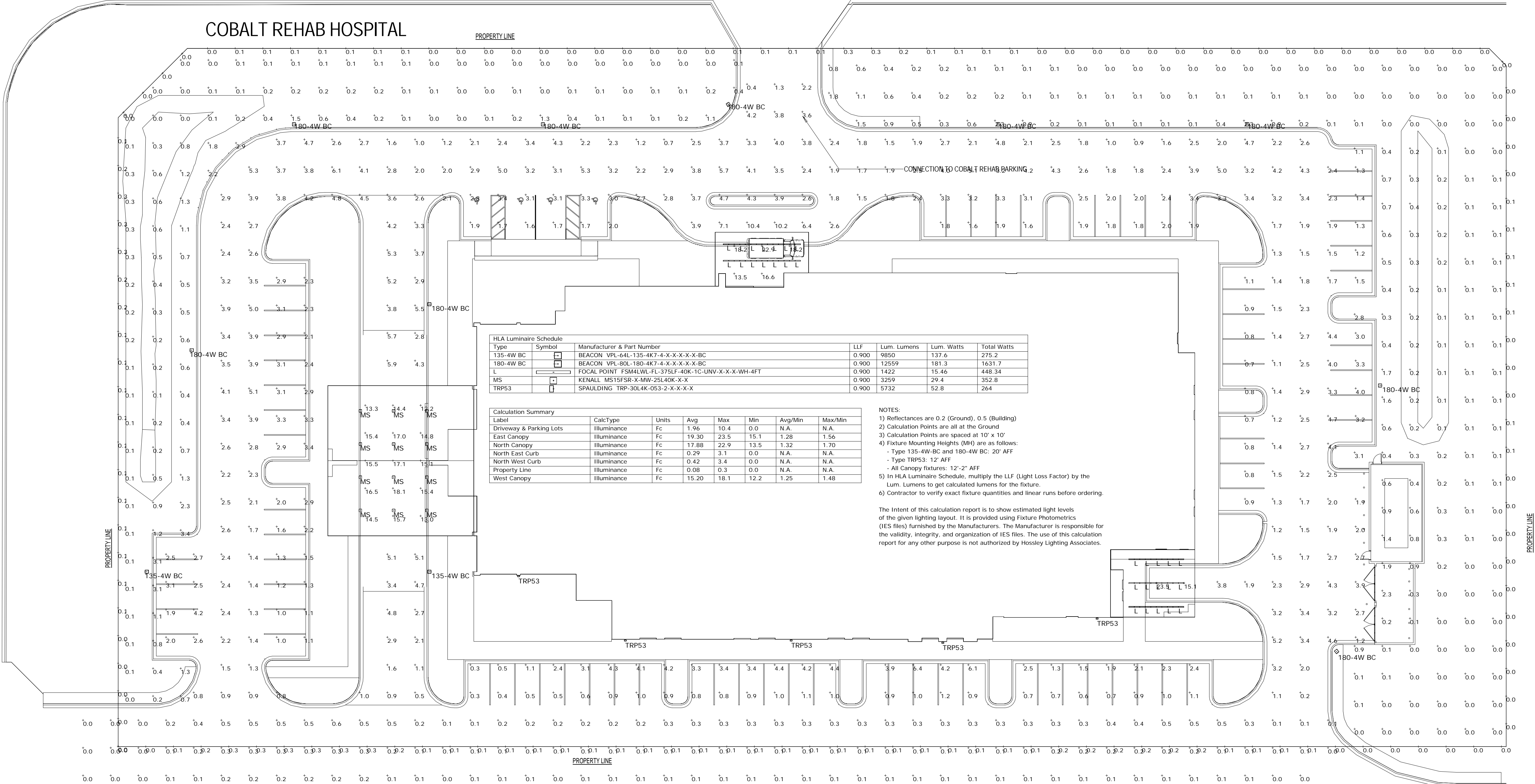
REV	DESCRIPTION	DATE



SEAL:
PROJECT NUMBER: 3017024
DATE: 28 August 2017
SHEET TITLE AND NUMBER:

W. BELL RD

COBALT REHAB HOSPITAL



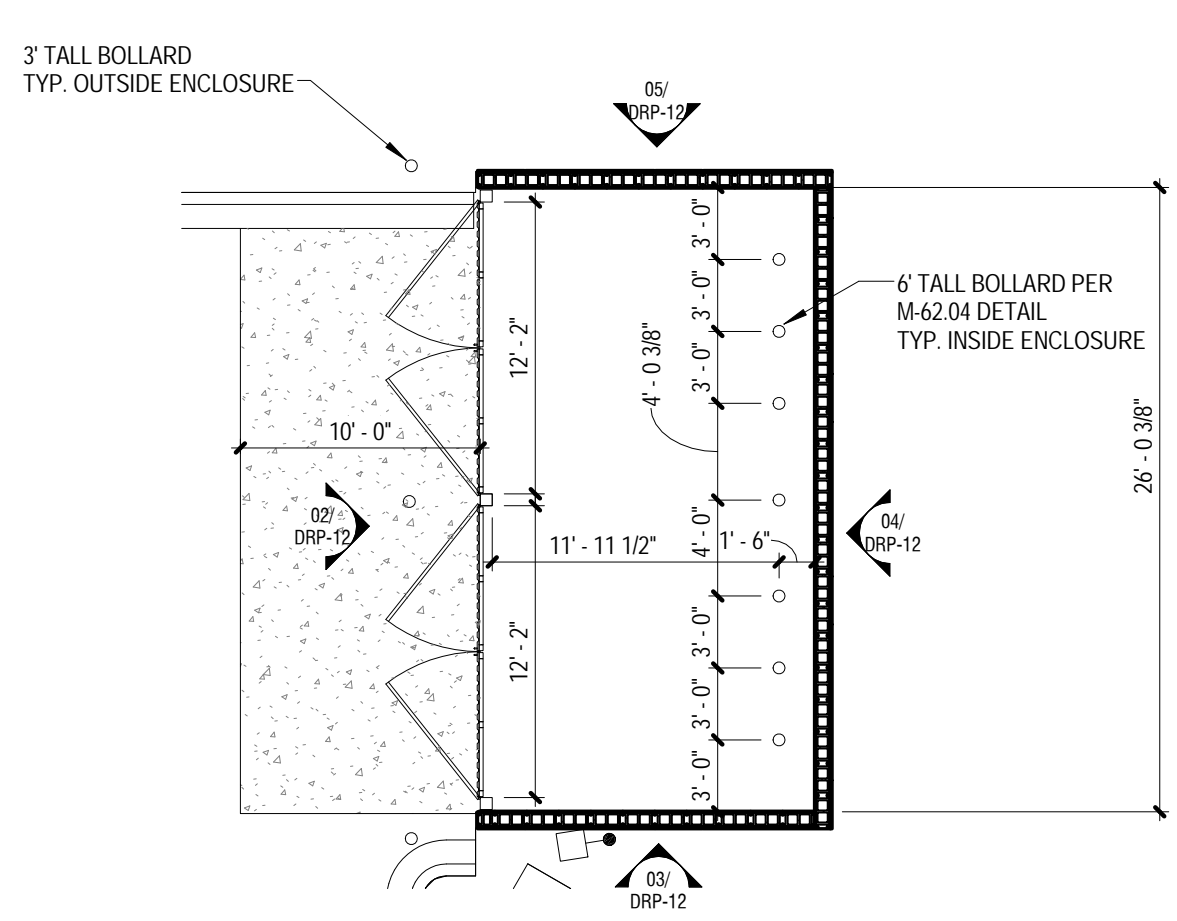
Type	Symbol	Manufacturer & Part Number	LLF	Lum. Lumens	Lum. Watts	Total Watts
135-4W BC	[Symbol]	BEACON VPL-64L-135-4K7-4-X-X-X-X-BC	0.900	9850	137.6	275.2
180-4W BC	[Symbol]	BEACON VPL-80L-180-4K7-4-X-X-X-X-BC	0.900	12559	181.3	363.7
L	[Symbol]	FOCAL POINT FSM4LWL-FL-375LF-40K-1C-UNV-X-X-X-WH-4FT	0.900	1422	15.46	448.34
MS	[Symbol]	KENALL MS15FSR-X-MW-25L40K-X-X	0.900	3259	29.4	352.8
TRP53	[Symbol]	SPAULDING TRP-30L4K-053-2-X-X-X-X	0.900	5732	52.8	264

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Driveway & Parking Lots	Illuminance	Fc	1.96	10.4	0.0	N.A.	N.A.
East Canopy	Illuminance	Fc	19.30	23.5	15.1	1.28	1.56
North Canopy	Illuminance	Fc	17.88	22.9	13.5	1.32	1.70
North East Curb	Illuminance	Fc	0.29	3.1	0.0	N.A.	N.A.
North West Curb	Illuminance	Fc	0.42	3.4	0.0	N.A.	N.A.
Property Line	Illuminance	Fc	0.08	0.3	0.0	N.A.	N.A.
West Canopy	Illuminance	Fc	15.20	18.1	12.2	1.25	1.48

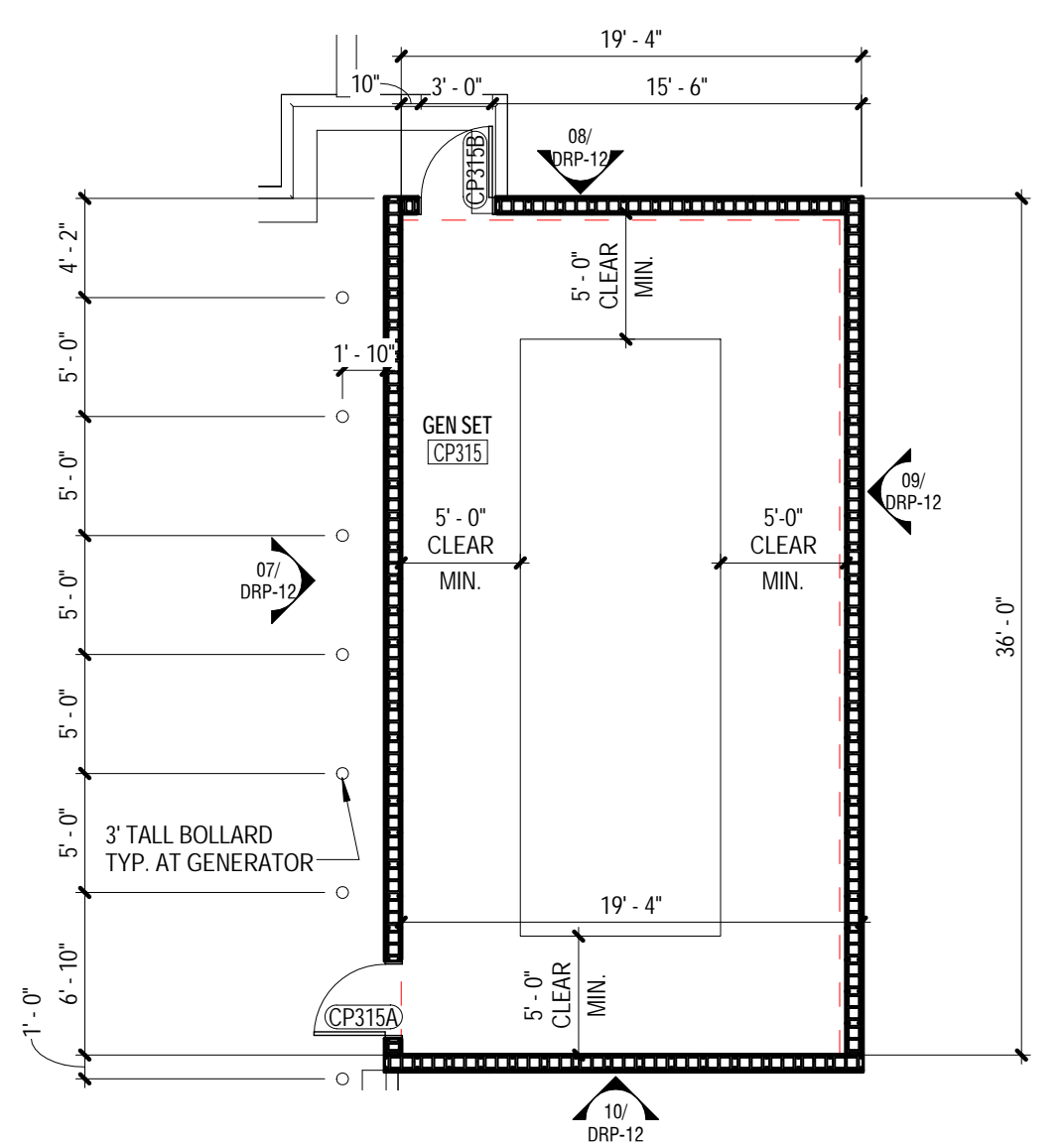
- NOTES:
- 1) Reflectances are 0.2 (Ground), 0.5 (Building)
 - 2) Calculation Points are all at the Ground
 - 3) Calculation Points are spaced at 10' x 10'
 - 4) Fixture Mounting Heights (MH) are as follows:
- Type 135-4W-BC and 180-4W-BC: 20' AFF
- Type TRP53: 12' AFF
- All Canopy fixtures: 12'-2" AFF
 - 5) In IHLA Luminaire Schedule, multiply the LLF (Light Loss Factor) by the Lum. Lumens to get calculated lumens for the fixture.
 - 6) Contractor to verify exact fixture quantities and linear runs before ordering.

The intent of this calculation report is to show estimated light levels of the given lighting layout. It is provided using Fixture Photometrics (IES files) furnished by the Manufacturers. The Manufacturer is responsible for the validity, integrity, and organization of IES files. The use of this calculation report for any other purpose is not authorized by Hossley Lighting Associates.

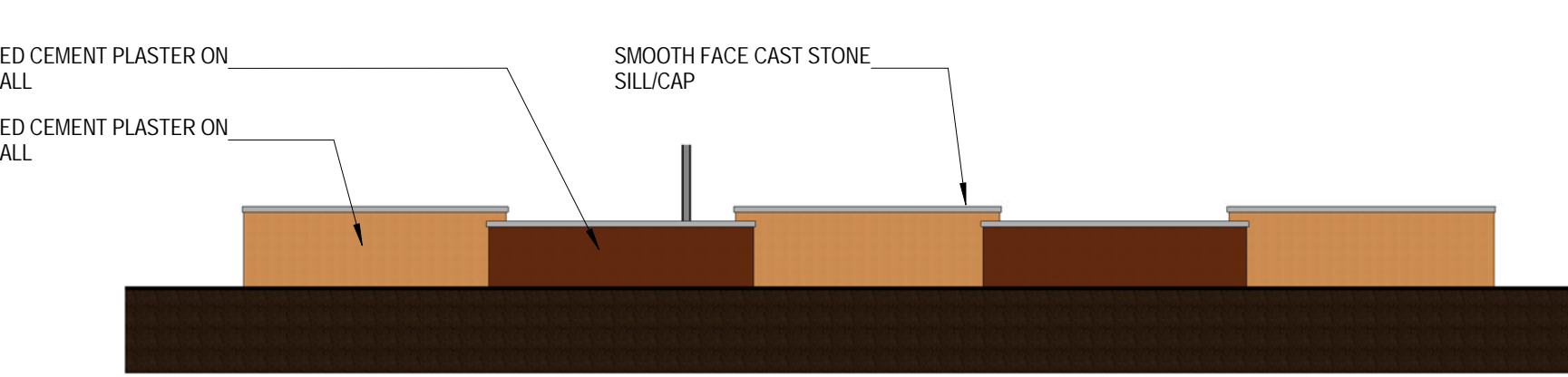
1 SITE PLAN - PHOTOMETRICS
1" = 20'-0"



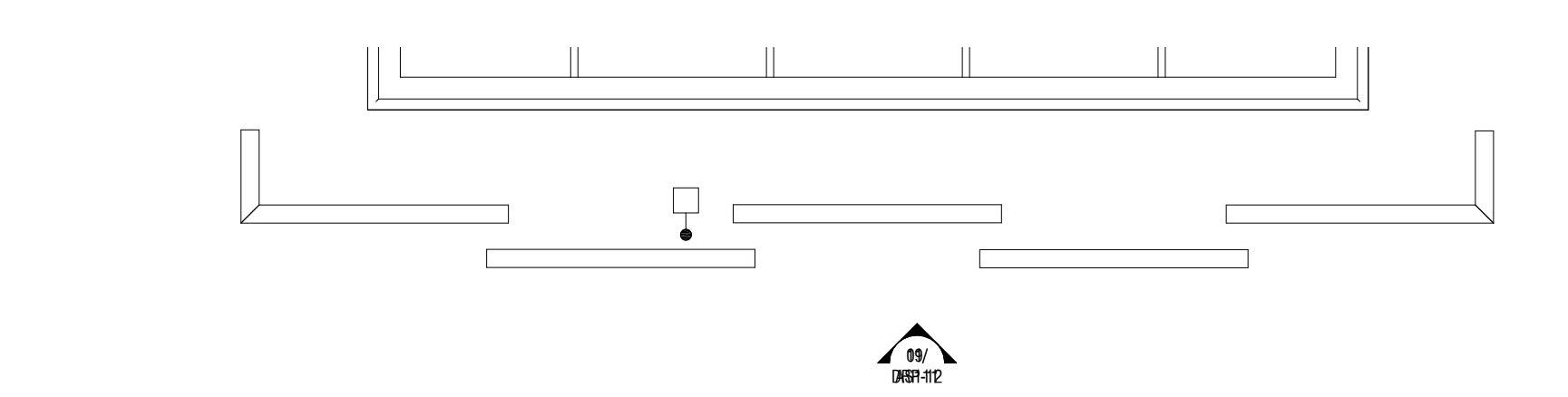
01 SITE PLAN - DUMPSTER ENCLOSURE
DRP-12 SCALE: 1/8" = 1'-0"



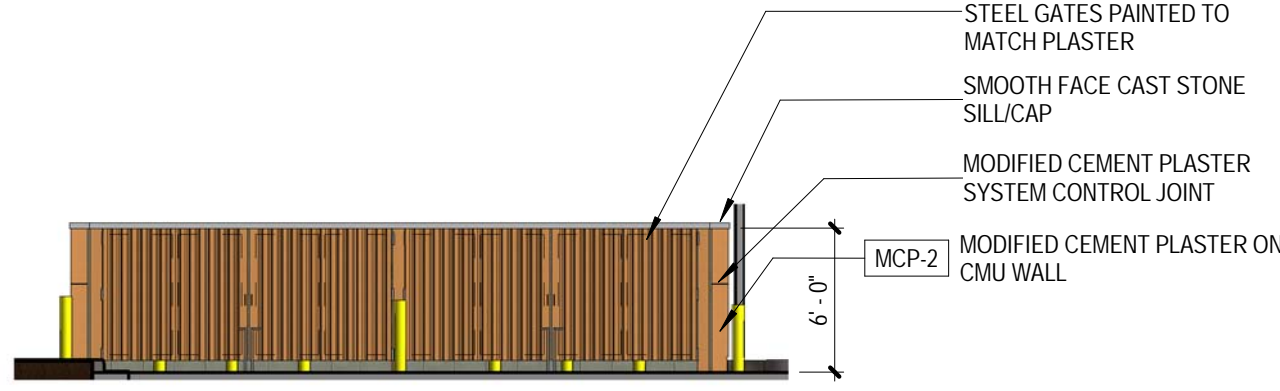
06 SITE PLAN - GENERATOR ENCLOSURE
DRP-12 SCALE: 1/8" = 1'-0"



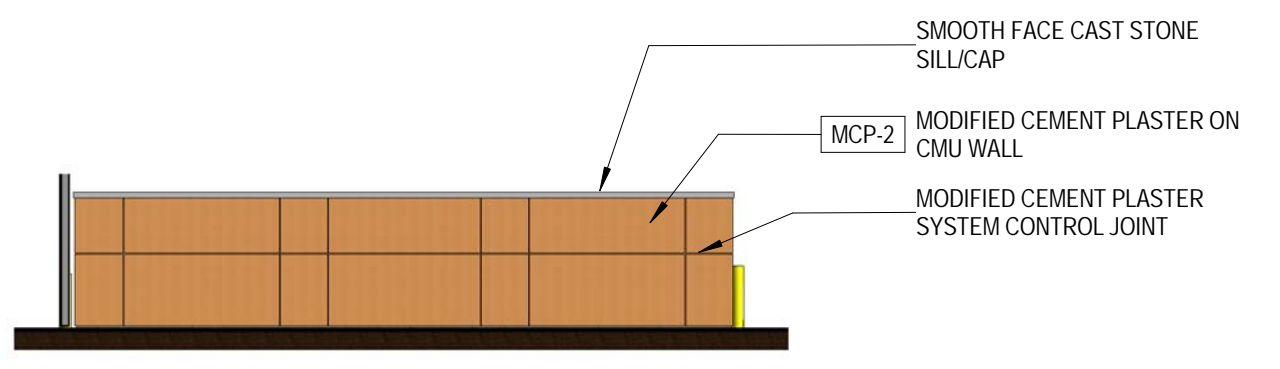
11 SITE WALL ELEVATION - SOUTH
DRP-12 SCALE: 1/8" = 1'-0"



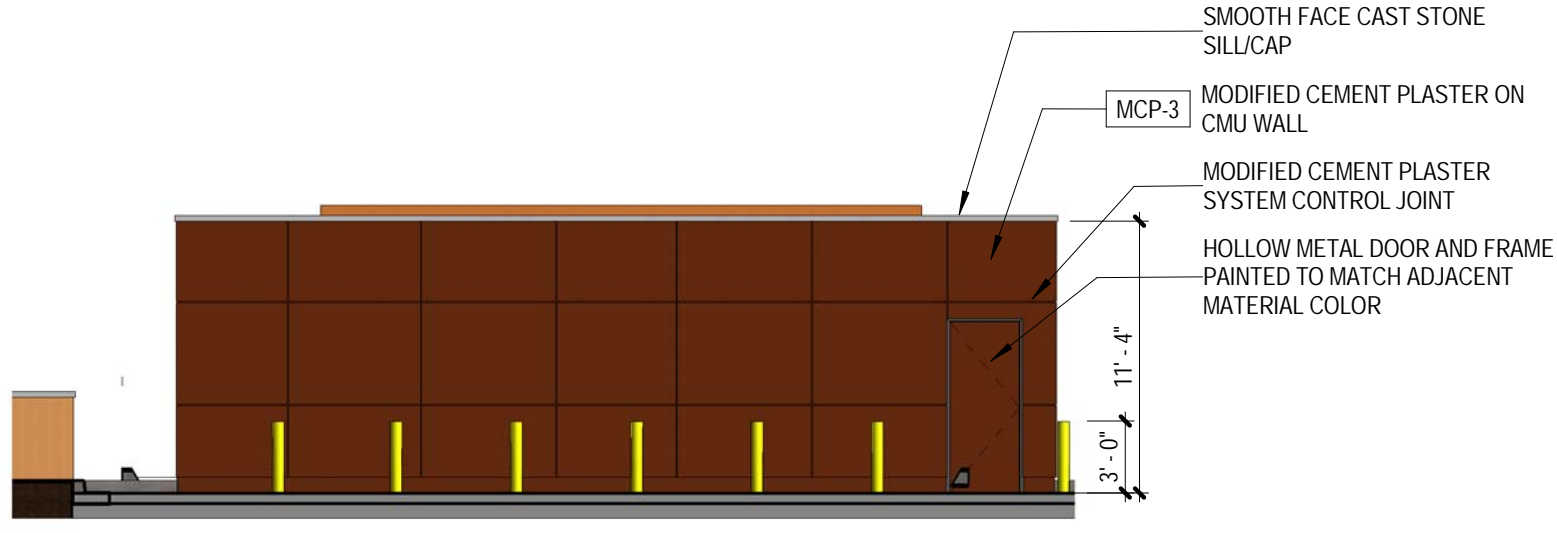
13 SITE WALL PLAN - SOUTH
DRP-12 SCALE: 1/8" = 1'-0"



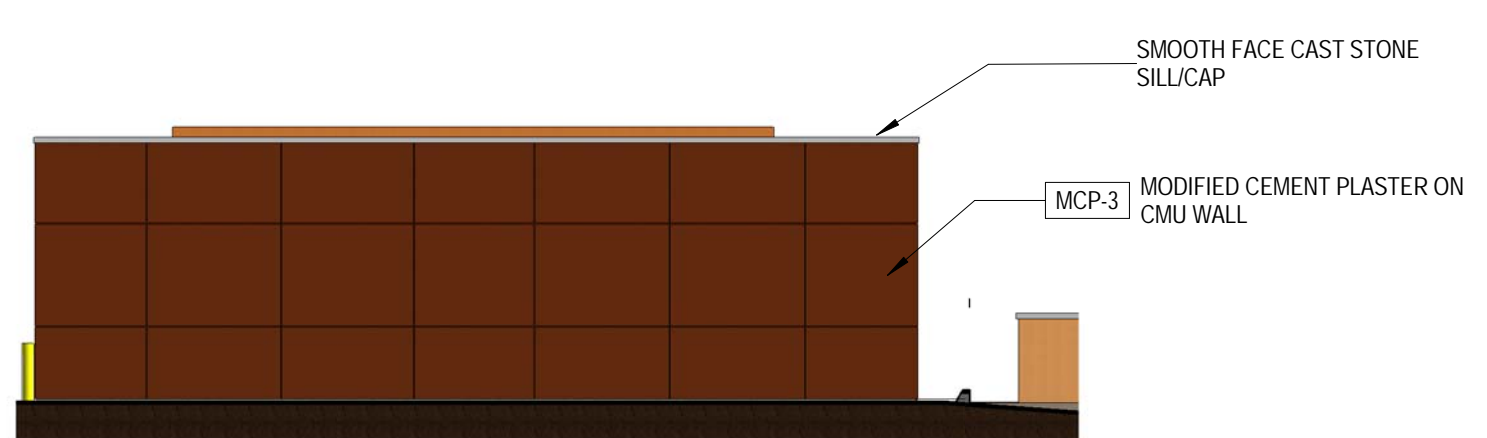
02 DUMPSTER ENCLOSURE - FRONT ELEVATION
DRP-12 SCALE: 1/8" = 1'-0"



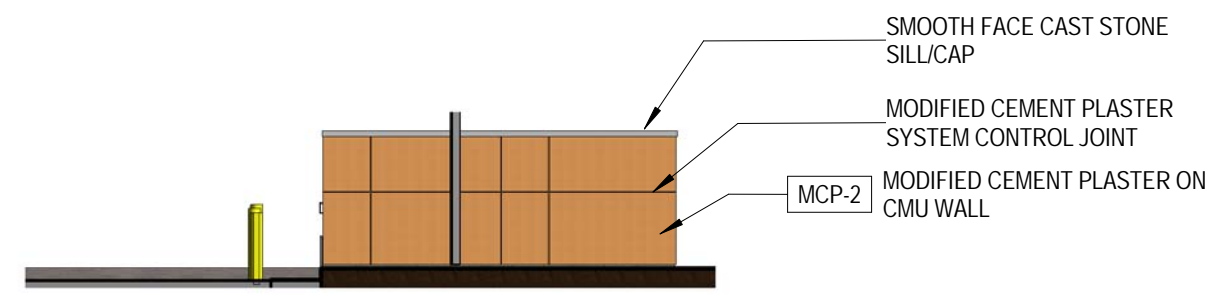
04 DUMPSTER ENCLOSURE - REAR ELEVATION
DRP-12 SCALE: 1/8" = 1'-0"



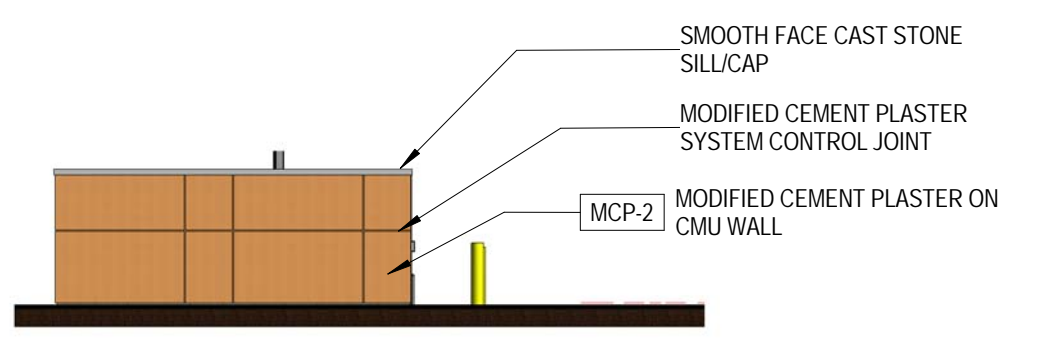
07 GENERATOR ENCLOSURE - SOUTH ELEVATION
DRP-12 SCALE: 1/8" = 1'-0"



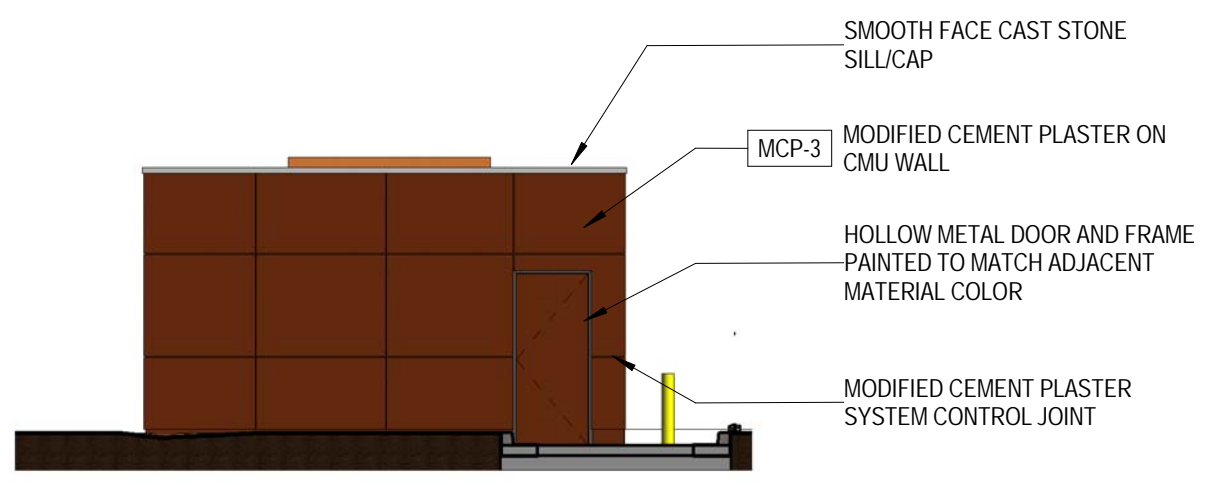
09 GENERATOR ENCLOSURE - NORTH ELEVATION
DRP-12 SCALE: 1/8" = 1'-0"



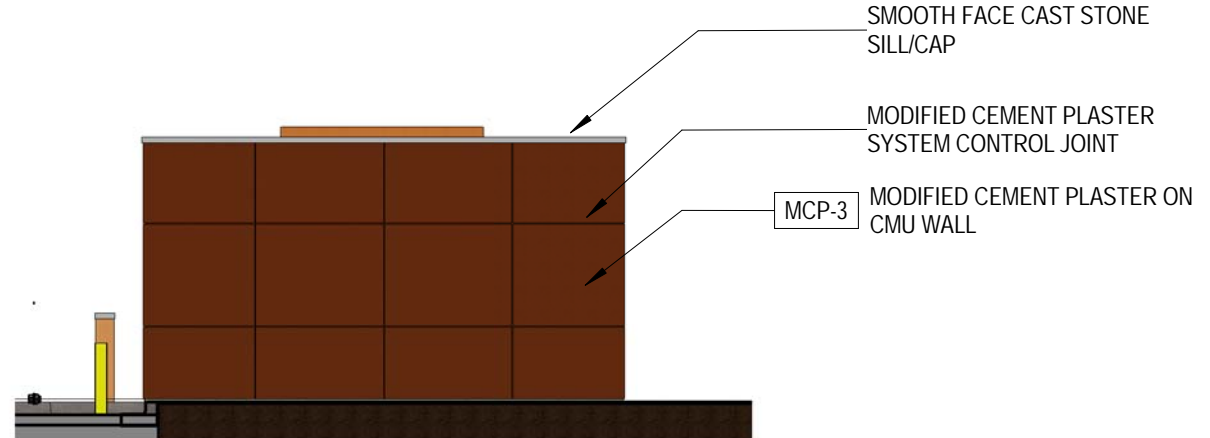
03 DUMPSTER ENCLOSURE - LEFT ELEVATION
DRP-12 SCALE: 1/8" = 1'-0"



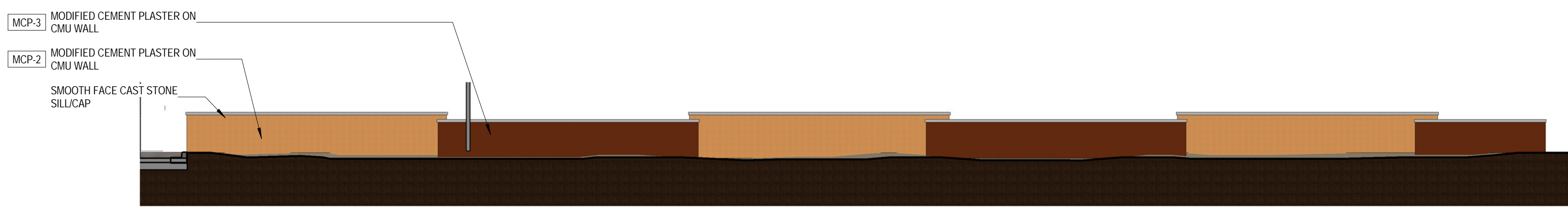
05 DUMPSTER ENCLOSURE - RIGHT ELEVATION
DRP-12 SCALE: 1/8" = 1'-0"



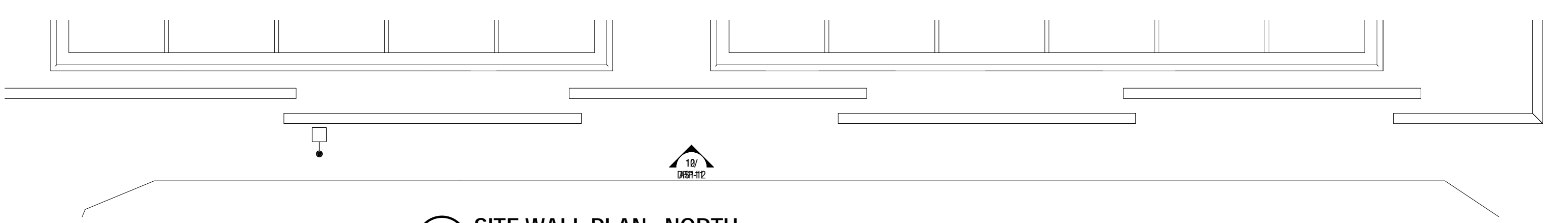
08 GENERATOR ENCLOSURE - WEST ELEVATION
DRP-12 SCALE: 1/8" = 1'-0"



10 GENERATOR ENCLOSURE - EAST ELEVATION
DRP-12 SCALE: 1/8" = 1'-0"



12 SITE WALL ELEVATION - NORTH
DRP-12 SCALE: 1/8" = 1'-0"



14 SITE WALL PLAN - NORTH
DRP-12 SCALE: 1/8" = 1'-0"

EXTERIOR MATERIAL GENERAL NOTES

- CONTROL JOINTS ARE TO BE PROVIDED CONSISTENT WITH BUILDING ELEVATIONS. MAXIMUM PORTLAND CEMENT STUCCO PANEL SIZE SHALL NOT EXCEED 144 SQ. FT. FROM CONTROL JOINT TO CONTROL JOINT(S) AT ANY EXTERIOR LOCATION. PROVIDE VERTICAL PROPRIETARY REVEAL AT THE CORNER OF A CHANGE IN PORTLAND CEMENT STUCCO COLOR. REF. ELEV.
- MASONRY EXPANSION AND CONTROL JOINTS ARE TO BE PROVIDED PER MANUFACTURER AND TRADE INDUSTRY STANDARDS.
- MATCH MORTAR COLOR.
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
- IDENTIFIED DIMENSIONS ARE TO ROUGH OPENINGS. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMMODATE NOTED JOINT WIDTHS.
- REFERENCE SPECIFICATIONS FOR EXTERIOR MATERIAL FINISH AND COLORS.

EXTERIOR MATERIAL COLOR LEGEND

- ADHERED MANUFACTURED STONE MASONRY VENEER (THIN STONE)
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- ALUMINUM COMPOSITE PANEL SYSTEM
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MCP-3 - DRYVIT #374B "FUDGE"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
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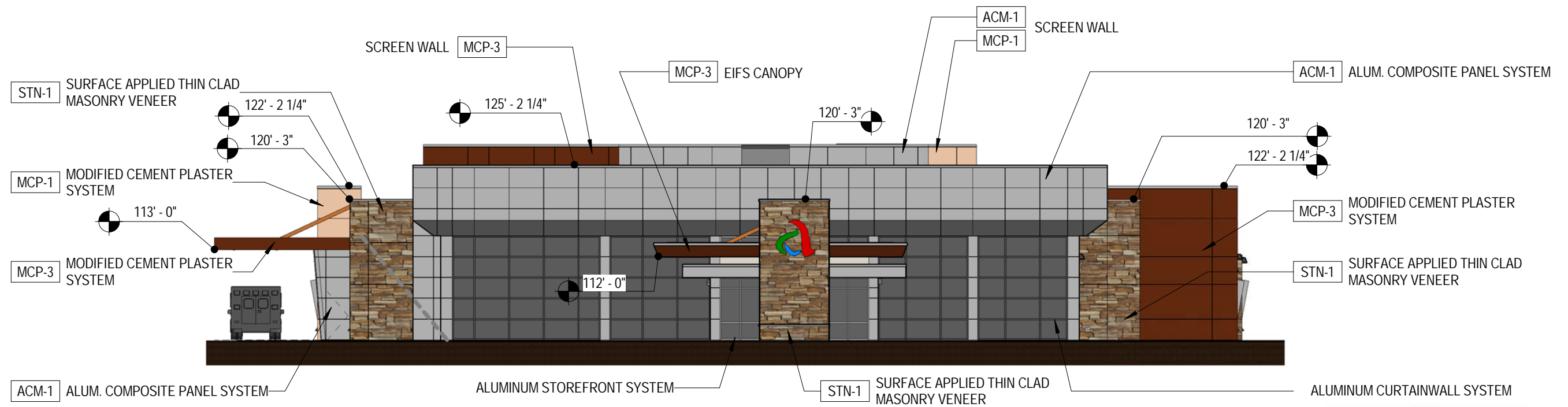
DESIGN REVIEW PACKAGE

ABRAZZO COMMUNITY HEALTH NETWORK
MICRO HOSPITAL - MESA, AZ
NEC BASELINE RD & SLATER DR
MESA, AZ 85206

REV	DESCRIPTION	DATE

SEAL:
PROJECT NUMBER: 3017024
DATE: 28 August 2017
SHEET TITLE AND NUMBER:

DRP-12

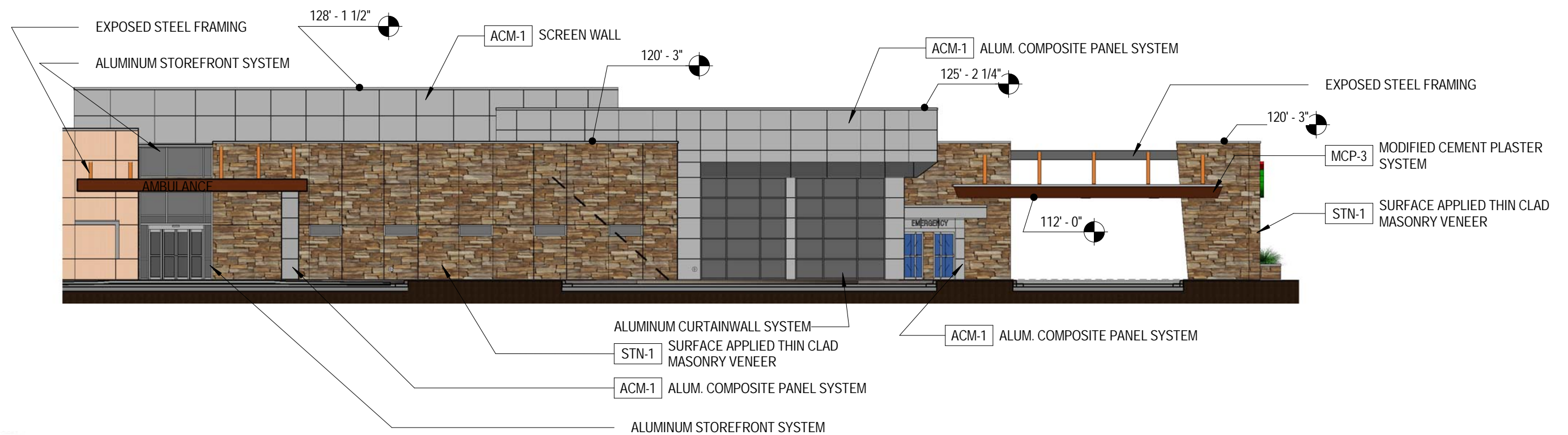
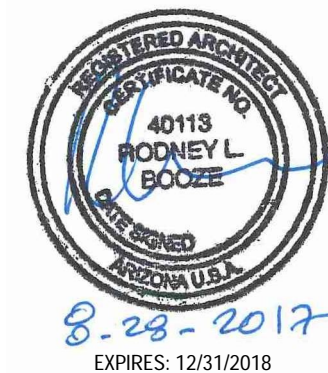
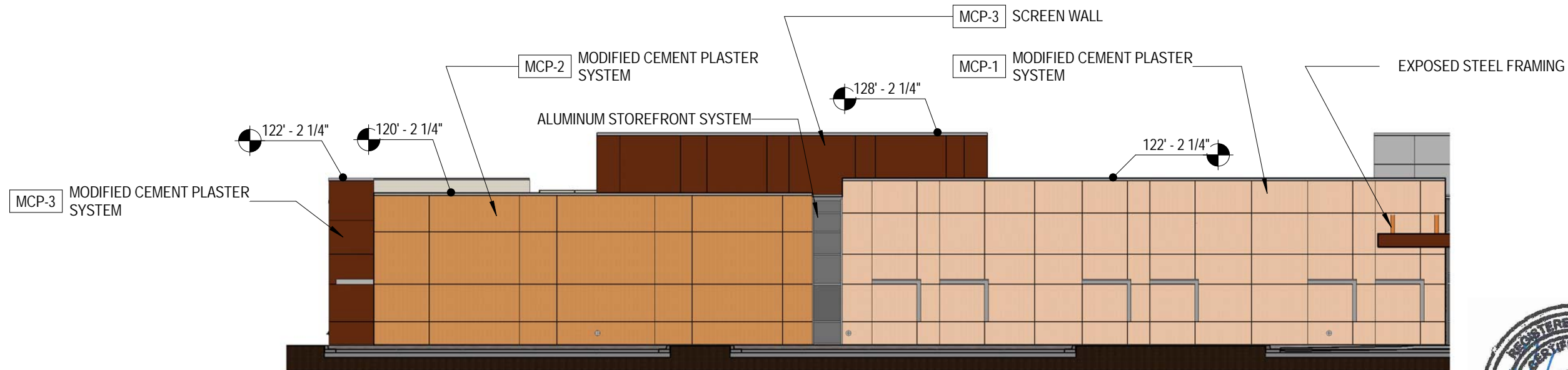


MICRO HOSPITAL - MESA, AZ

COLOR ELEVATION - SOUTH

28 August 2017



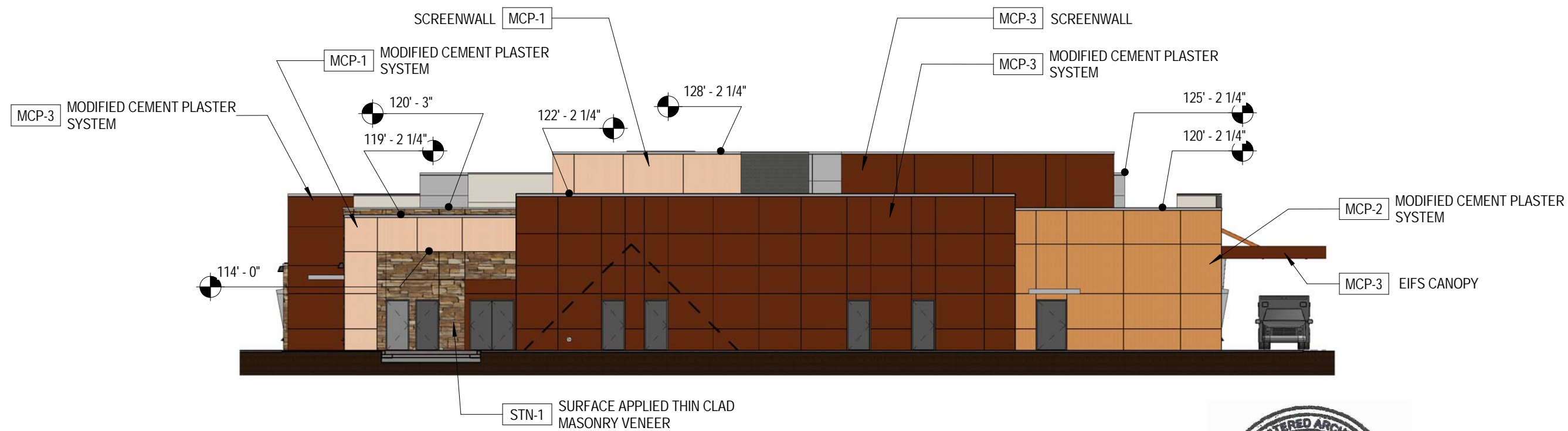


MICRO HOSPITAL - MESA, AZ

COLOR ELEVATION - WEST

28 August 2017



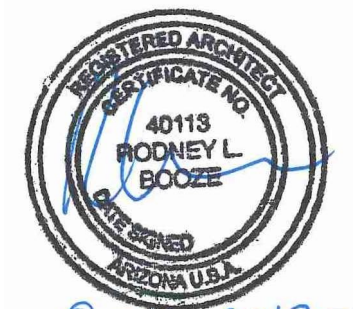
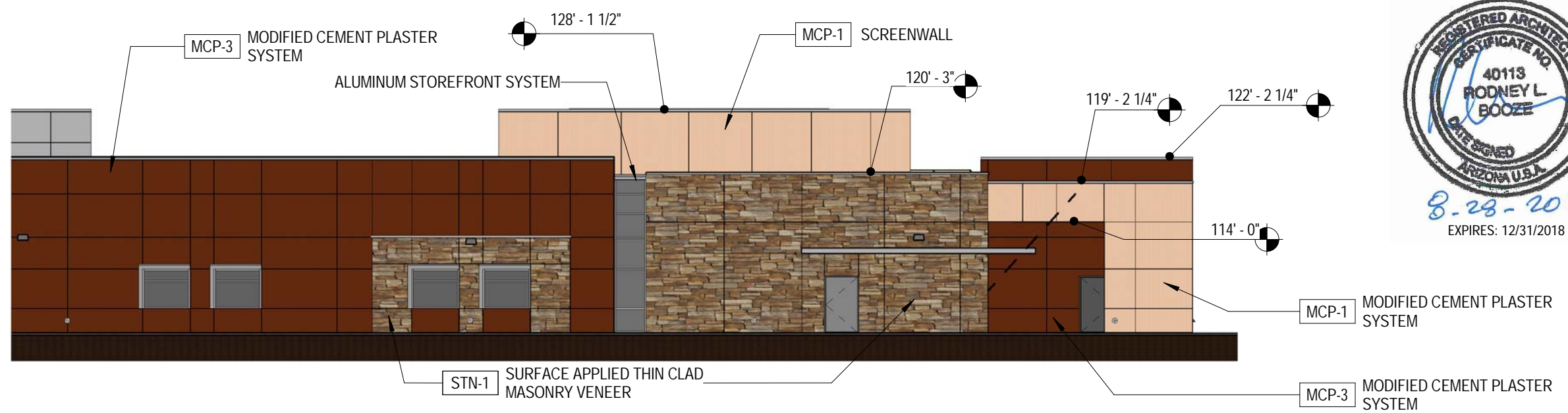
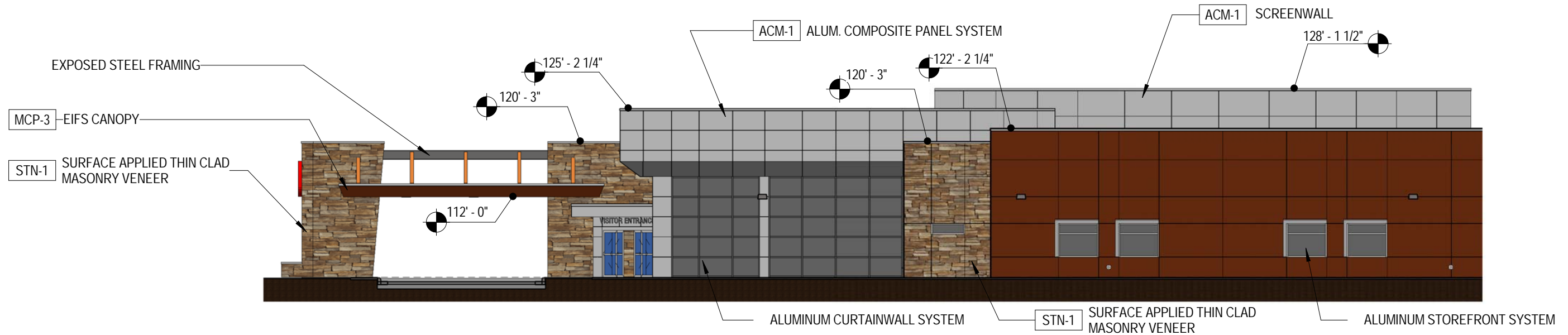


MICRO HOSPITAL - MESA, AZ

COLOR ELEVATION - NORTH

28 August 2017





8-28-2017
EXPIRES: 12/31/2018



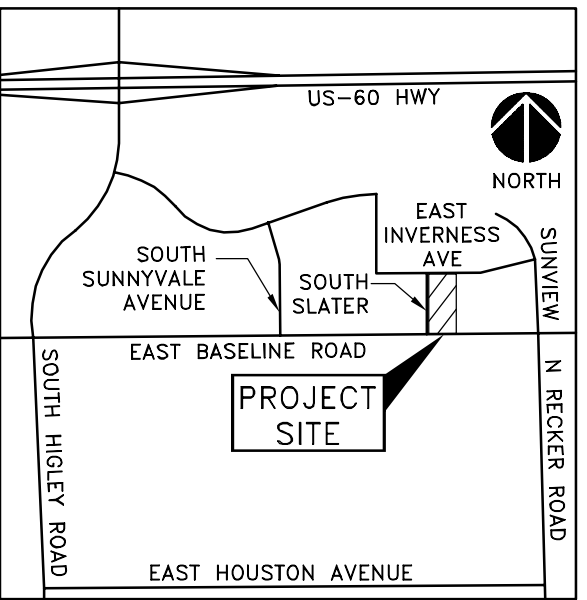
MICRO HOSPITAL - MESA, AZ

COLOR ELEVATION - EAST

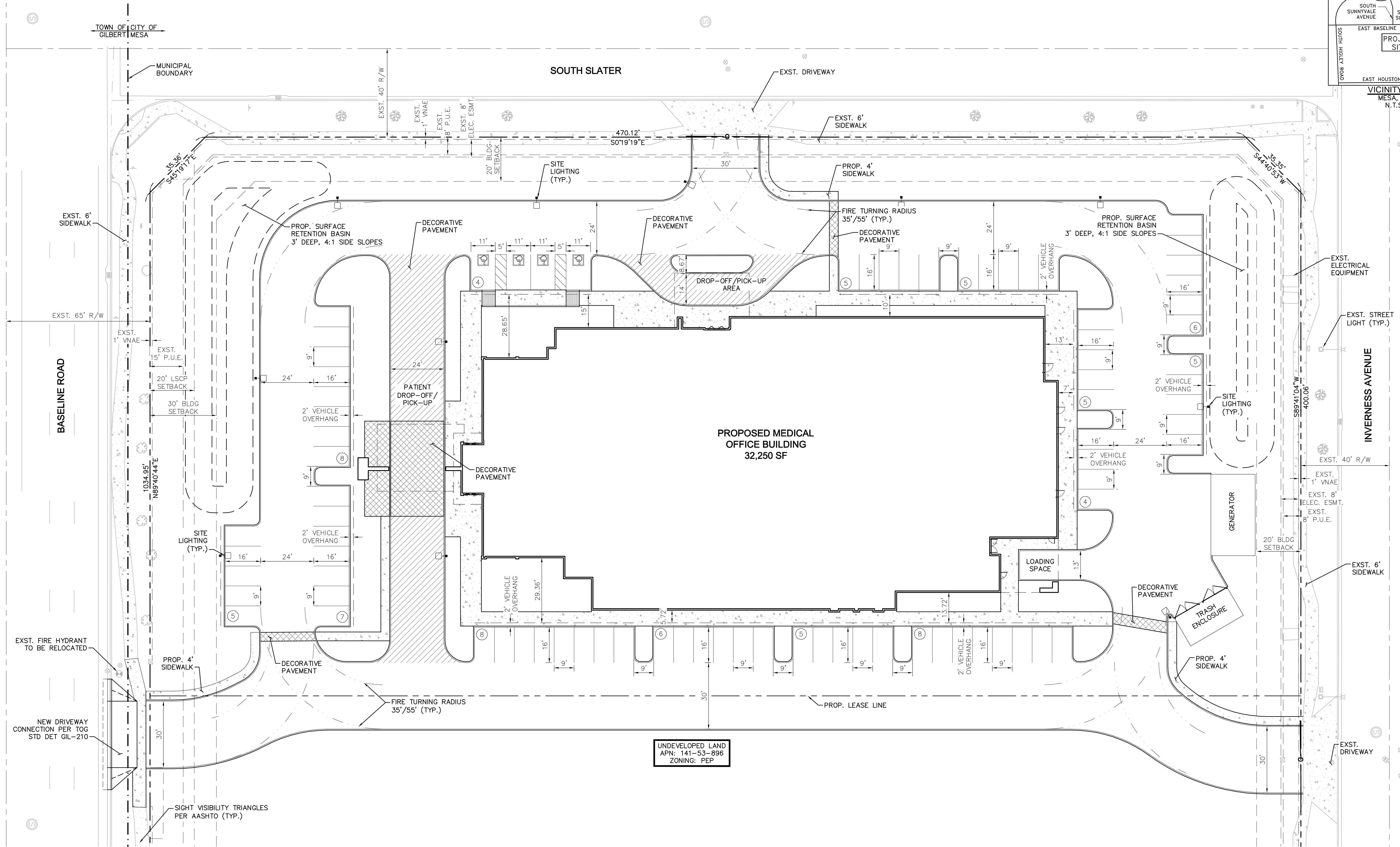
28 August 2017



ascension group
ENVIRONMENTS
FOR HEALTH
ARCHITECTURE



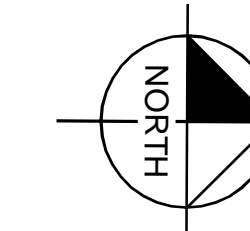
VICINITY MAP
MESA, AZ
N.T.S.



UNDEVELOPED LAND
APN: 141-53-896
ZONING: PEP

SITE DATA:

GROSS AREA: 130,677 SF (2.99 AC)
 NET AREA: 120,497 SF (2.77 AC)
 ZONING: PEP (PLANNED EMPLOYMENT PARK)
 PARKING REQUIRED: 1 PER 400 SF (HOSPITAL)
 32,250/400 = 81 SPACES
 PARKING PROVIDED: 81 SPACES (77 STANDARD, 4 ADA)
 APN: 141-53-896



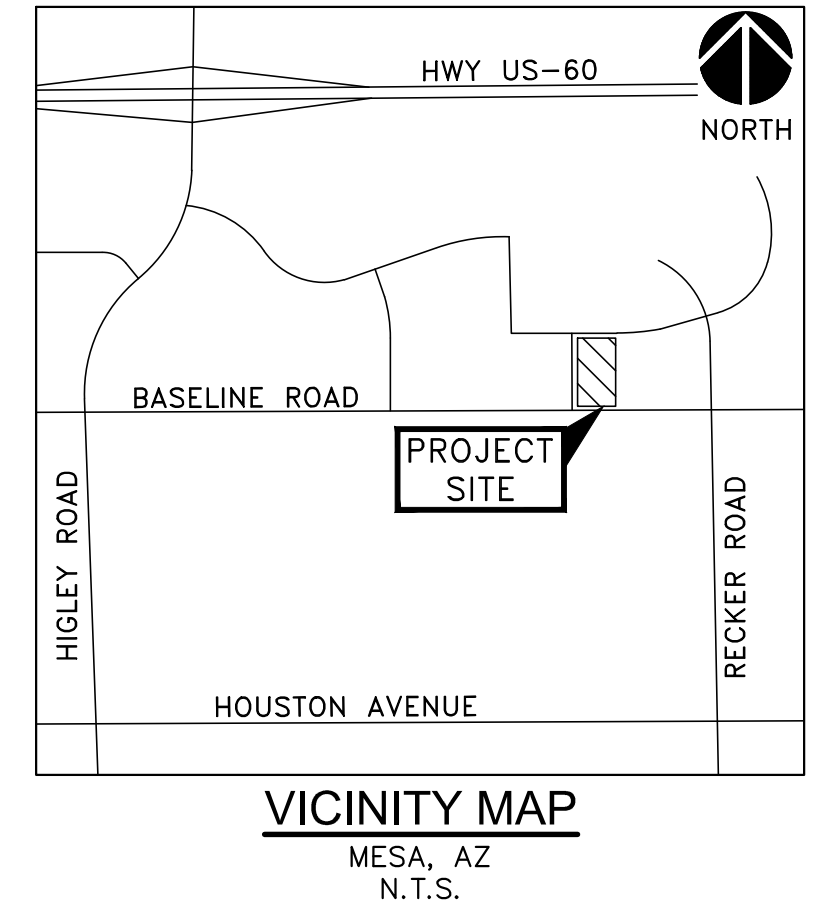
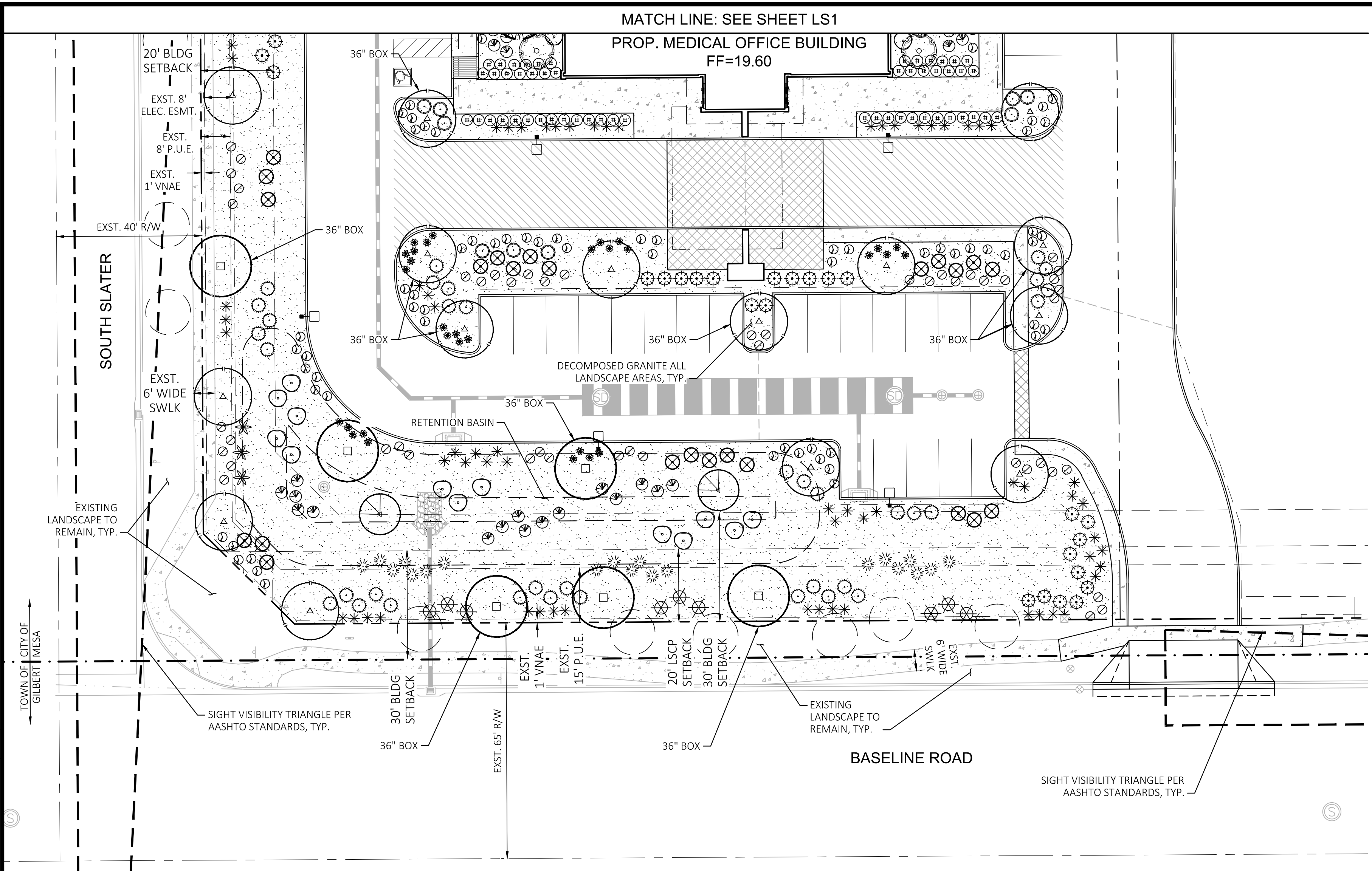
PRELIMINARY SITE PLAN



K:\PHX_Civil\291175000-Mesa_Tenet\CADD\175000SP.dwg Aug 28, 2017 bryce.quigley

REV	DESCRIPTION	BY	DATE	APPR

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 I hereby certify that the information furnished on this drawing is true and correct to the best of my knowledge and belief, and that I am a duly Licensed Professional Engineer in the State of Arizona. I am not providing my professional seal or signature to anyone other than the client. I shall be held liable for any and all damages, including reasonable attorneys' fees, that may be incurred by the client as a result of my negligence or malpractice in the performance of my professional services.



PLANTING LEGEND

TREES			
BOTANICAL NAME / COMMON NAME	SIZE	QTY	
Existing Tree	N/A	14	
Chilopsis linearis 'Bubba' / Desert Willow	24" Box, 7' Ht. Min., 1 1/2" Cal. Min.	5	○
Parkinsonia x 'Desert Museum' / Desert Museum Palo Verde	36" Box, 10' Ht. Min., 2" Cal. Min. / 24" Box, 10' Ht. Min., 2" Cal. Min.	15 / 27	△
Prosopis x 'Phoenix' / Thornless Mesquite	36" Box, 10' Ht. Min., 2 1/2" Cal. Min. / 24" Box, 7' Ht. Min., 1 1/2" Cal. Min.	7 / 7	□
Sophora secundiflora 'Silver Peso' / Silver Texas Mountain Laurel	36" Box, 6' Ht. Min., 2" Cal. Min.	8	○
Vitex angust-castus 'Montrose Purple' / Chaste Tree	36" Box, 8' Ht. Min., 2 1/2" Cal. Min. / 24" Box, 6' Ht. Min., 1 1/2" Cal. Min.	7	○

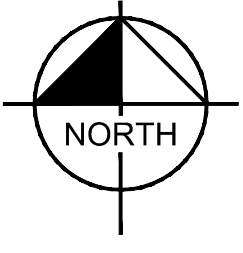
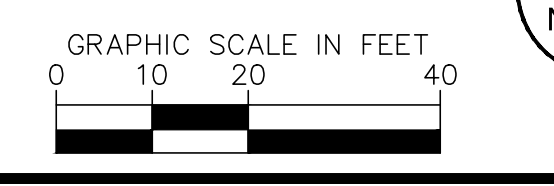
SHRUBS			
BOTANICAL NAME / COMMON NAME	SIZE	QTY	
Hesperaloe funifera / Giant Yucca	5 Gal.	36	⊗
Hesperaloe parvifolia 'perpa' / Brakelights Red Yucca	5 Gal.	100	*
Calliandra californica / Baja Fairy Duster	5 Gal.	47	○
Leucophyllum frutescens 'Compacta' / Compact Sage	5 Gal.	61	○
Leucophyllum langmaniae / Lynn's Legacy	5 Gal.	79	⊗
Ruellia brittoniana / Ruellia	5 Gal.	61	⊗
Ruellia 'Katie' / Katie Ruellia	5 Gal.	112	•
Tecoma stans 'Gold Star' / Yellow Bells	5 Gal.	55	○

ACCENTS & GRASSES			
BOTANICAL NAME / COMMON NAME	SIZE	QTY	
Agave americana 'Medio-picta' / White-Striped Century Plant	18" Ht. Min. / 18" Width Min.	12	*
Agave parryi / Parry's Agave	10" Ht. Min. / 10" Width Min.	31	*
Dasylium wheeleri / Desert Spoon	5 Gal.	14	⊗
Muhlenbergia rigida 'Nashville' / Nashville Muhly Grass	5 Gal.	56	*

GROUNDCOVERS			
BOTANICAL NAME / COMMON NAME	SIZE	QTY	
Convolvulus cneorum / Bush Morning Glory	1 Gal.	52	⊗
Lantana camara 'New Gold' / New Gold Lantana	1 Gal.	186	⊗
Lantana montevidensis 'Trailing Purple' / Trailing Purple Lantana	1 Gal.	117	⊗

CITY OF MESA REQUIREMENTS	REQUIRED	PROVIDED
PERIMETER LANDSCAPING: EAST PERIMETER Undeveloped Land - Zoning:PEP	N/A	N/A
SOUTH PERIMETER - BASELINE ROAD: Collector Street: 1 Tree/25 LF, 6 Shrubs/25 LF	252 LF = 10 Trees, 60 Shrubs 10 Trees = 3 - 36" Box Trees 30 Shrubs = 5 gal.	10 Trees (6 Exist), 66 Shrubs 3 - 36" Box Trees 63 Shrubs = 5 gal.
WEST PERIMETER- SOUTH SLATER: Public Local Street: 1 Tree/25 LF, 4 Shrubs/25 LF	520 LF = 21 Trees, 84 Shrubs 21 Trees = 6 - 36" Box Trees 42 Shrubs = 5 gal.	21 Trees, 84 Shrubs 3 - 36" Box Trees 52 Shrubs = 5 gal.
NORTH PERIMETER - INVERNESS AVENUE: Public Local Street: 1 Tree/25 LF, 4 Shrubs/25 LF	252 LF = 10 Trees, 40 Shrubs 10 Trees = 3 - 36" Box Trees 20 Shrubs = 5 gal.	10 Trees (8 Exist), 47 Shrubs 3 - 36" Box Trees 35 Shrubs = 5 gal.
INTERIOR PARKING LOT: PARKING ISLANDS 1 Shade Tree & 3 Shrubs / Parking Island 1 Shade Tree & 8 Shrubs Median / 8 spaces Min. 10% parking lot trees = 36-inch box size, remaining 24-inch box size.	18 Islands = 18 Trees, 54 Shrubs 1 Median (15 spaces) = 2 Trees, 12 shrubs 20 Trees Total = 2-36" Box Trees	20 Trees, 63 Shrubs 2 - 36" Box Trees

CITY OF MESA REQUIREMENTS	REQUIRED	PROVIDED
FOUNDATION BASE: Exterior Walls with Public Entrance: 1 Tree / 50 LF 10% Min. @ 36" Box, remaining @ 24" Box Landscape Area = 33% min. of adjacent wall	West Side of Building: 260 LF = 6 Trees Min. 1 Tree @ 36" Box 86 LF of landscape South Side of Building: 92 LF = 2 Trees Min. 1 Tree @ 36" Box 31 LF of landscape	6 Trees 1 Tree @ 36" Box 163 LF of landscape 2 Trees 1 Tree @ 36" Box 90 LF of landscape
Exterior Walls without Public Entrance: 1 Tree / 50 LF 10% Min. @ 36" Box, remaining @ 24" Box Landscape Area = 25% min. of adjacent wall	East Side of Building: 260 LF = 6 Trees Min. 1 Tree @ 36" Box 65 LF of landscape	9 Trees 1 Tree @ 36" Box 97 LF of landscape
RETENTION BASIN: Landscape in all areas of basin (slope, top and bottom)		Provided



Kimley»Horn © 2017
7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

NEC BASELINE ROAD AND SOUTH SLATE
PRELIMINARY LANDSCAPE PLAN
PHOENIX, ARIZONA

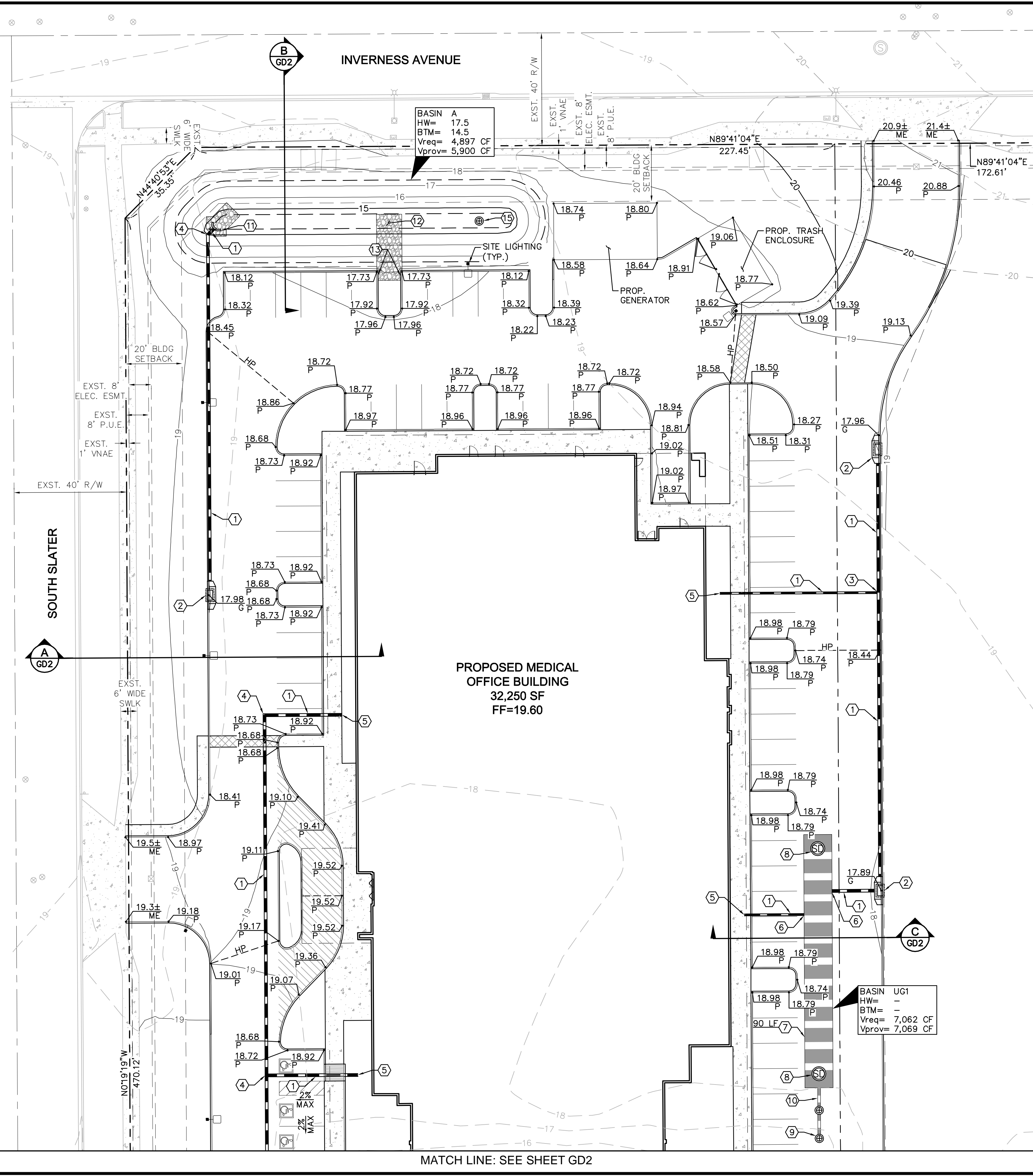
PROJECT No. 291175000
SCALE (H): 1"=20'
SCALE (V): NONE
DRAWN BY: KF
DESIGN BY: KF
CHECK BY: AAV
DATE: 08/21/17

Expires 09/30/2018
175000Prel-LS.dwg
LS2
2 OF 2 SHEETS

CASE # PRS17-00104

REV	DESCRIPTION	DATE	BY	APP

K:\VHX_Civil\291175000-Mesa Tenet\CADD\175000Pre-GD.dwg, Layout:GD1 Aug 28, 2017 - 10:18am bryce.qigley
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DEVELOPER/OWNER

TENET HEALTHCARE
1920 MAIN STREET, SUITE 250
IRVINE, CA 92614
PH: (714) 428-6769
CONTACT: DICK BECK

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC
7740 N. 16TH STREET, SUITE 300
PHOENIX, AZ 85020
PH: (602) 944-5500
CONTACT: TRAVER JONES, PE

LAND SURVEYOR

DIBBLE ENGINEERING
7500 N. DREAMY DRAW DRIVE, SUITE 200
PHOENIX, ARIZONA 85020
PH: (602) 957-1155
CONTACT: JASON GRAHAM, RLS

ARCHITECT

E4H ARCHITECTURE
1250 E. COPELAND ROAD, SUITE 500
ARLINGTON, TEXAS 76011
PH: (817) 226-1917
CONTACT: STUART COOK

BASIS OF BEARING

PER DIBBLE ENGINEERING, THE ASSUMED BASIS OF BEARING IS LOCATED IN THE SOUTHEAST LINE OF THE SOUTHEAST QUARTER OF SECTION 35, TOWNSHIP 1 NORTH, TOWNSHIP 6 EAST. SAID LINE BEARS N89°40'44"E.

FLOOD INFORMATION

ACCORDING TO THE FLOOD INSURANCE RATE MAP #04013C2290 M DATED NOVEMBER 15, 2015, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X".

GRADING AND DRAINAGE NOTES

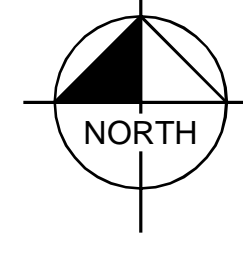
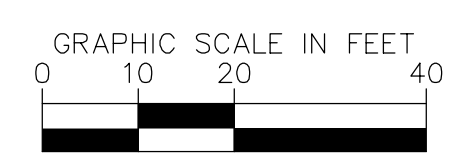
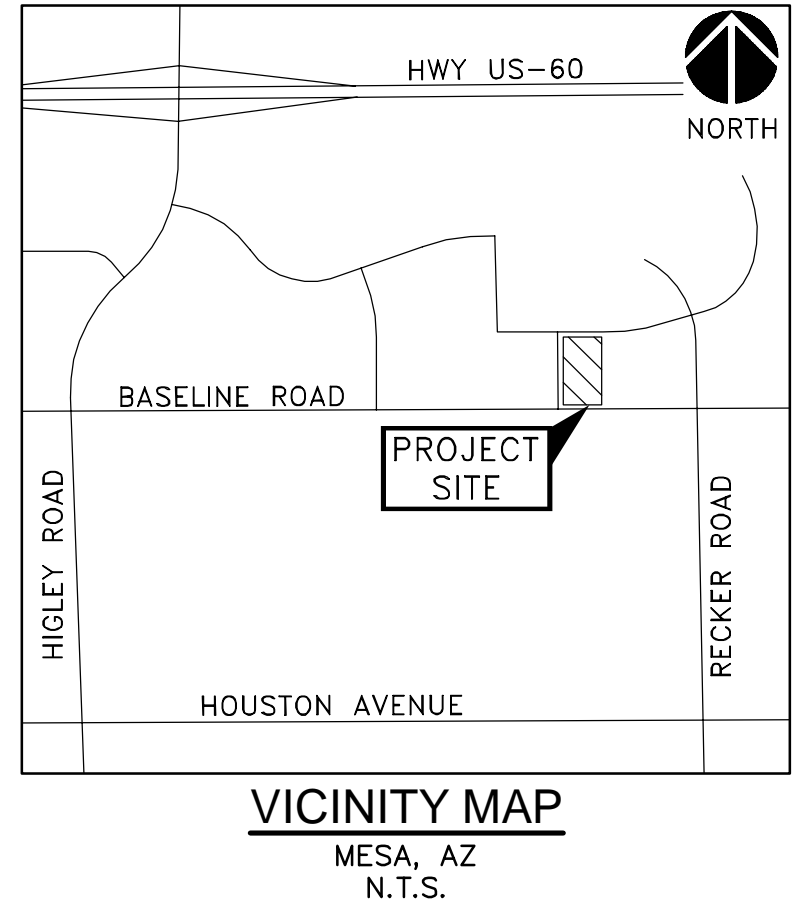
- ① HDPE STORM DRAIN PIPE
- ② CATCH BASIN PER MAG STD DET 534
- ③ HDPE STORM DRAIN TEE
- ④ HDPE STORM DRAIN BEND
- ⑤ BUILDING ROOF DRAIN AIR BREAK
- ⑥ STORM DRAIN CONNECTION TO UNDERGROUND RETENTION TANK
- ⑦ 10' DIAMETER CMP UNDERGROUND RETENTION TANKS
- ⑧ RETENTION TANK ACCESS RISER
- ⑨ DUAL-CHAMBER DRYWELL
- ⑩ CMP CONNECTOR PIPE
- ⑪ U-TYPE HEADWALL PER MAG STD DET 501 WITH RIP-RAP PROTECTION
- ⑫ RIP-RAP SPILLWAY
- ⑬ 2' WIDE CURB OPENING
- ⑭ SINGLE-CHAMBER DRYWELL

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- STREET CENTERLINE
- EASEMENT LINE
- S --- EXISTING SEWER MAIN
- W --- EXISTING PUBLIC WATER MAIN
- DW --- PROPOSED DOMESTIC WATER LINE
- F --- PROPOSED FIRE LINE
- S --- PROPOSED SEWER MAIN
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- HP --- HIGH POINT
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPOSED PAVEMENT SPOT ELEVATION
- EXISTING SPOT ELEVATION
- S --- EXISTING SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED CATCH BASIN

NOTES

1. ADD 1300' TO ALL ELEVATIONS.
2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS FOR TOP OF CURB ELEVATIONS FOR VERTICAL CURBS.
3. ALL SPOT ELEVATIONS ARE FINISHED GRADE PAVEMENT (P), GUTTER/GRATE (G), OR SIDEWALK (SW) ELEVATIONS UNLESS OTHERWISE NOTED.



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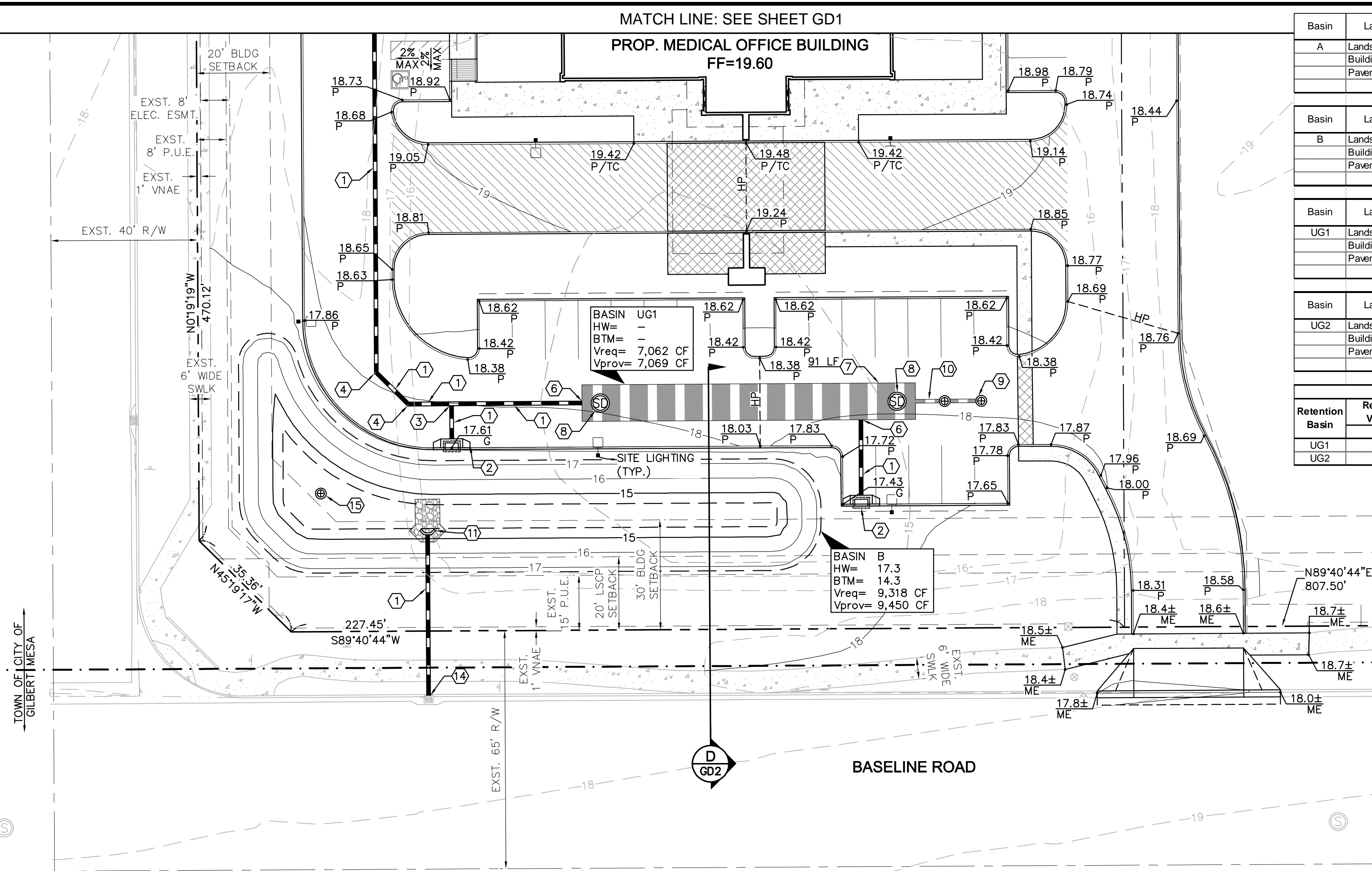
PRELIMINARY GRADING AND DRAINAGE PLAN
 PHOENIX, ARIZONA

PROJECT No.
291175000
 SCALE (H): 1"=20'
 SCALE (V): NONE
 DRAWN BY: CGF
 DESIGN BY: CGF
 CHECK BY: TMJ
 DATE: 08/21/17

PRELIMINARY
 FOR REVIEW ONLY
 NOT FOR CONSTRUCTION

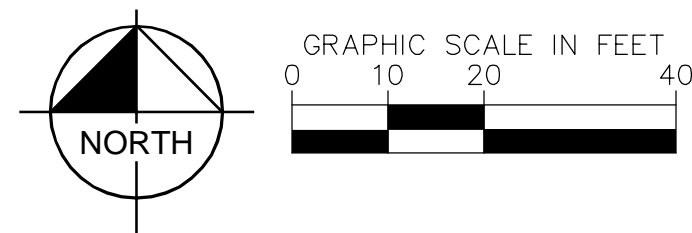
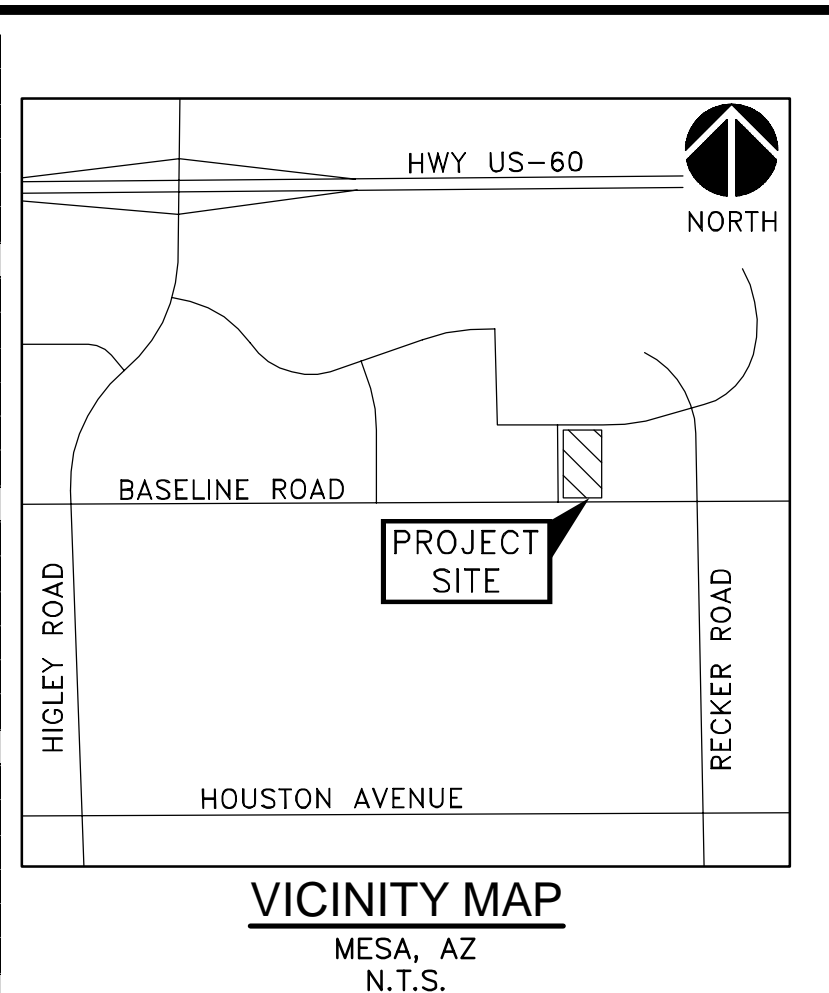
 ENGINEER T. JONES
 PE NO. 52238 DATE: 08/21/17
 175000Pre-GD.dwg
GD1
 1 OF 2 SHEETS

REV	DESCRIPTION	DATE	BY	APP

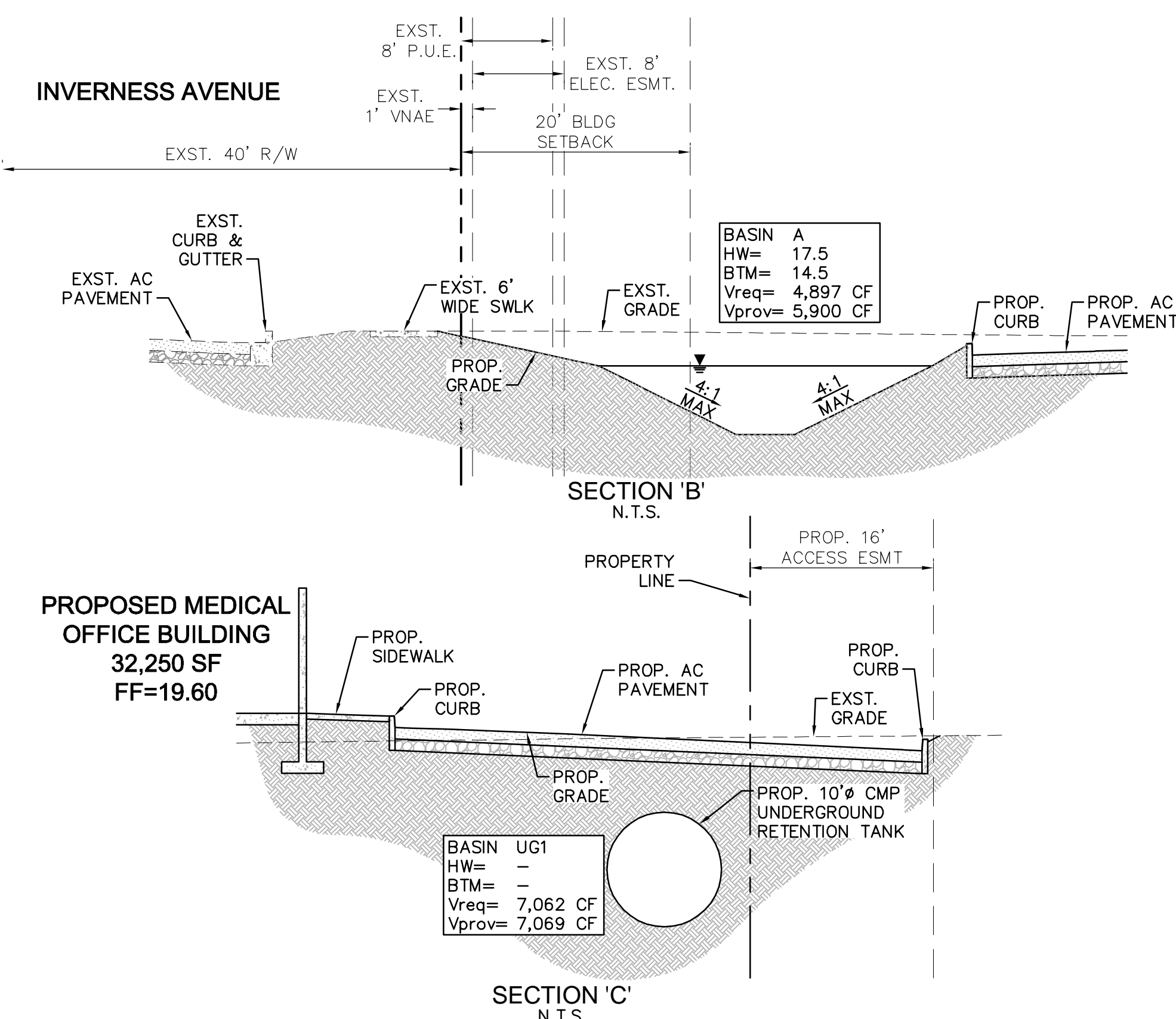
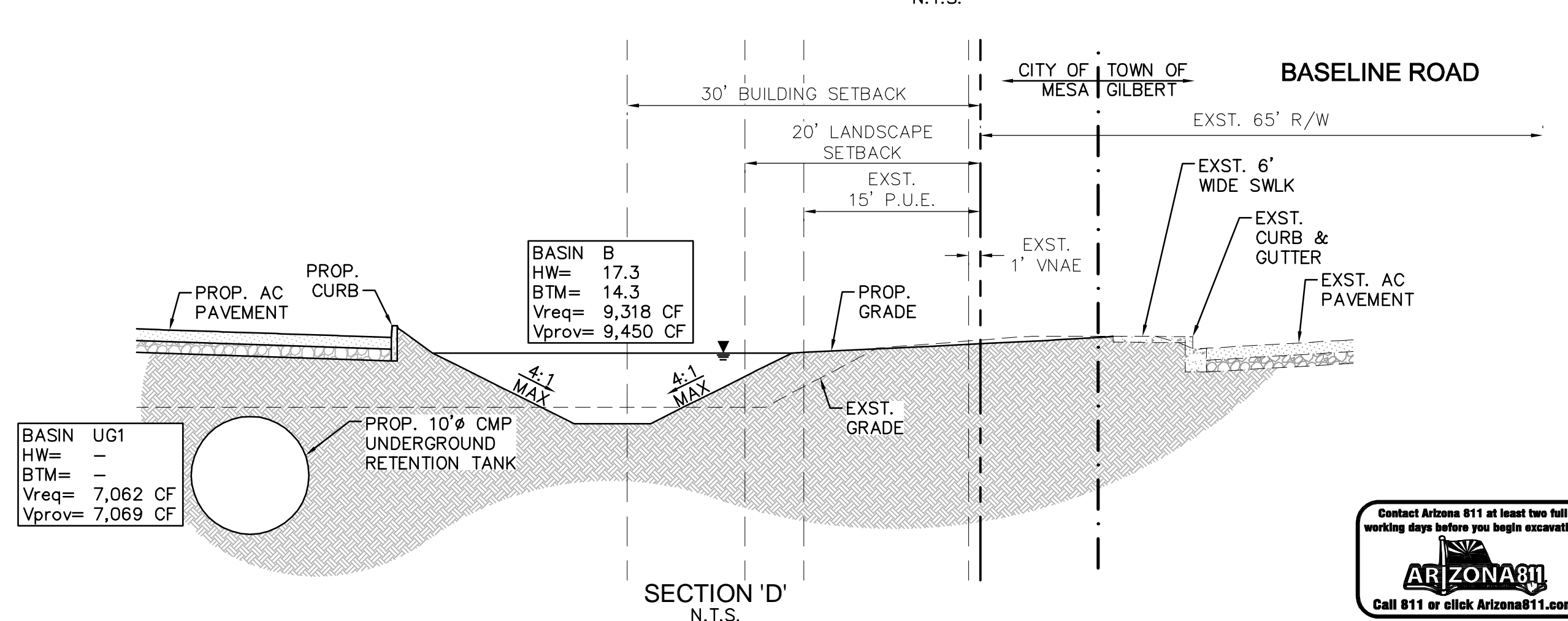
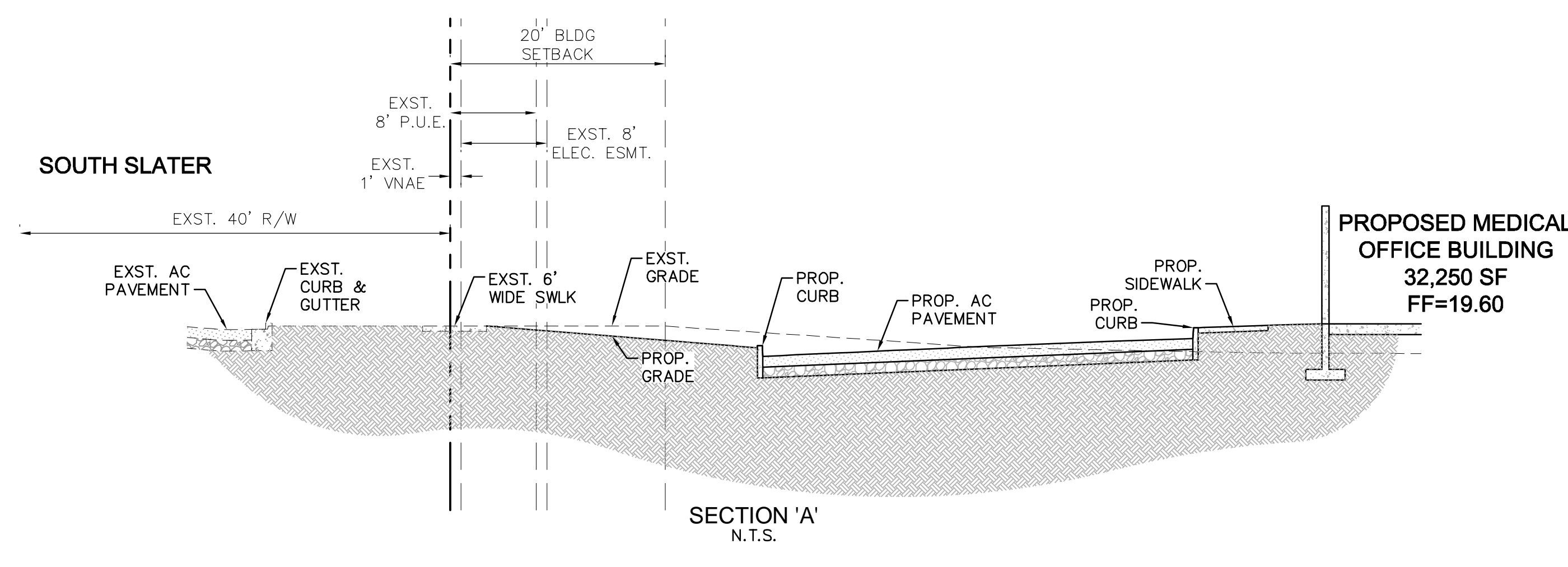


Basin	Land Use	Runoff Coefficient	Drainage Area (ft ²)	Required Volume (ft ³)	Provided Volume (ft ³)	Surplus (ft ³)	Drywells Required
A	Landscaping	0.50	16,182	1,450			
	Building	0.85	0	0			
	Pavement	0.85	22,638	3,448			
				4,897	5,900	1,003	1
B	Landscaping	0.50	21,520	1,928			
	Building	0.85	0	0			
	Pavement	0.85	48,526	7,390			
				9,318	9,450	132	1
UG1	Landscaping	0.50	0	0			
	Building	0.85	16,007	3,047			
	Pavement	0.85	26,366	4,015			
				7,062	7,069	7	1
UG2	Landscaping	0.50	0	0			
	Building	0.85	16,007	3,047			
	Pavement	0.85	26,464	4,030			
				7,077	7,147	70	1

Underground Retention Summary				
Retention Basin	Required Volume cf	Diameter ft	Required Length ft	Provided Length ft
UG1	7,062	10	90	90
UG2	7,077	10	91	91



- GRADING AND DRAINAGE NOTES**
- ① HDPE STORM DRAIN PIPE
 - ② CATCH BASIN PER MAG STD DET 534
 - ③ HDPE STORM DRAIN TEE
 - ④ HDPE STORM DRAIN BEND
 - ⑥ STORM DRAIN CONNECTION TO UNDERGROUND RETENTION TANK
 - ⑦ 10' DIAMETER CMP UNDERGROUND RETENTION TANKS
 - ⑧ RETENTION TANK ACCESS RISER
 - ⑨ DUAL-CHAMBER DRYWELL
 - ⑩ CMP CONNECTOR PIPE
 - ⑪ U-TYPE HEADWALL PER MAG STD DET 501 WITH RIP-RAP PROTECTION
 - ⑭ STORM DRAIN CONNECTION TO EXISTING CATCH BASIN
 - ⑮ SINGLE-CHAMBER DRYWELL



K:\PHX_Civil\291175000-Mesa\175000Pre-GD.dwg, Layout: GD2 Aug 28, 2017 - 10:18am bryce.qigley
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 Phoenix, Arizona 85020 (602) 944-5500

NEC BASELINE ROAD AND SOUTH SLATER
PRELIMINARY GRADING AND DRAINAGE PLAN
 PHOENIX, ARIZONA

PROJECT No. 291175000
 SCALE (H): 1"=20'
 SCALE (V): NONE
 DRAWN BY: CGF
 DESIGN BY: CGF
 CHECK BY: TMJ
 DATE: 08/21/17

PRELIMINARY
 FOR REVIEW ONLY
 NOT FOR CONSTRUCTION
Kimley»Horn
 ENGINEER T. JONES
 PE NO. 52238 DATE: 08/21/17
 17500Pre-GD.dwg
GD2
 2 OF 2 SHEETS



CASE # PRS17-00104

VIPER L

OPTICS

STRIKE

LARGE VIPER LUMINAIRE

Cat.#

Job

Type



Approvals

SPECIFICATIONS

Intended Use:

The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- Two-piece silicone and microcellular polyurethane foam gasket ensures a weather-proof seal around each individual optic.

Electrical:

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (UNV), 347V, or 480V input.
- Power factor is $\geq .90$ at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Fixture electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20kA.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see www.beaconproducts.com/products/energeni).
- In addition, Viper can be specified with **SiteSync™** wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: www.hubbelling.com/sitesync

Installation:

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included.

Finish:

- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Certifications/Ratings:

- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>
- Certified to UL 1598, UL 8750, and CSA C22.2
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://www.beaconproducts.com/products/viper_large

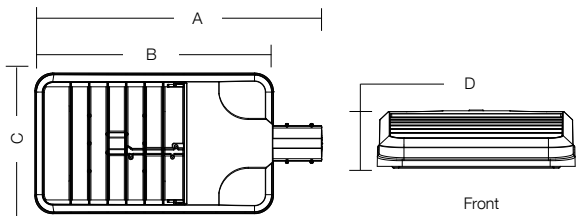
Warranty:

Five year limited warranty for more information visit: www.hubbelling.com/resources/warranty

PRODUCT IMAGE(S)

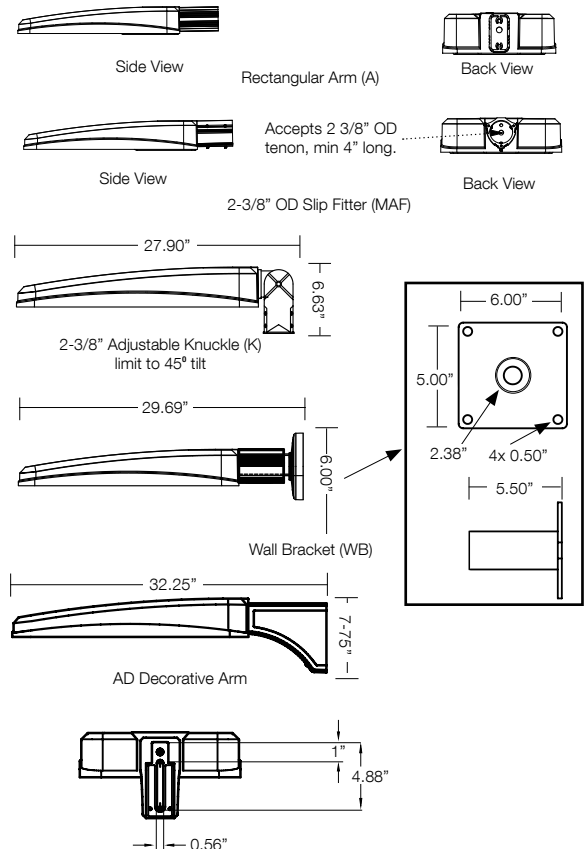


DIMENSIONS



A	B	C	D	Weight:	EPA
29.9"	24.19"	14.25"	4.13"	25.0 lbs	1.2 ft ²
(741 mm)	(614 mm)	(362 mm)	(105 mm)	(11.3 kg)	

MOUNTING OPTIONS



CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

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

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ORDERING INFORMATION ORDERING EXAMPLE: VPL/96L-280/4K7/4W/UNV/A/DBT/7PR-TL/GENI-04/BC

VPL								
SERIES	LED ENGINE	CCT/CRI ⁷	ROTATION	VOLTAGE	COLOR	OPTIONS		
VPL Viper	64L-135 135W LED array 80L-180 180W LED array 80L-235 235W LED array 96L-220 220W LED array 96L-280 280W LED array 96L-315 315W LED array 96L-395 395W LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	Leave blank for no rotation L ⁵ Optic rotation left R ⁵ Optic rotation right	UNV 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	DBT Dark Bronze Textured BMT Black Matte Textured PS Platinum Silver Smooth WHT White Textured CC Custom Color (RAL#)	F Fusing BSP Bird Spikes BC Backlight control (limited to Type 4W only)		

DISTRIBUTION

- FR Type 1/Front Row
- 2 Type 2
- 3 Type 3
- 4 Type 4
- 4W Type 4 Wide
- 5QM Type 5QM
- 5QN Type 5QN
- 5R Type 5R (rectangular)
- 5W Type 5W (round wide)

MOUNTING

- A Rectangular Arm (formerly RA) for square or round pole
- MAF Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm
- K Knuckle (formerly PK2) limit to 45° tilt or 2-3/8" OD horizontal arm or vertical tenon
- WB Wall Bracket
- AD Universal Arm for square pole
- AD3 Universal Arm for 2.4"-4.1" round pole
- AD4 Universal Arm for 4.2"-5.3" round pole
- AD5 Universal Arm for 5.5"-5.9" round pole
- AD6 Universal Arm for 6.0"-6.5" round pole

CONTROL OPTIONS

- 7PR 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)
- 7PR-SC 7-Pin Receptacle w/Shorting Cap
- 7PR-TL 7-Pin Receptacle w/Twist Lock photo control
- SCP/_F^{1,2,6} Programmable Occupancy Sensor w/ daylight control (120-277 volts only)
- WSP/_F^{1,2} WASP Occupancy Sensor w/ daylight control (347 or 480 volts only)
- GENI-XX³ ENERGENI
- SWP^{1,4} SiteSync Pre-Commission
- SWPM^{1,2,4} SiteSync Pre-Commission w/ Sensor

HOUSE SIDE SHIELD ACCESSORIES

- HSS/EVP-L/90-FB/XXX 90° shield front or back
- HSS/EVP-L/90-LR/XXX 90° shield left or right
- HSS/EVP-L/270-FB/XXX 270° shield front or back
- HSS/EVP-L/270-LR/XXX 270° shield left or right
- HSS/EVP-L/360/XXX Full shield

(Replace XXX with notation for desired finish color)
(Refer to page 5 for shield images)

MOUNTING ACCESSORIES

- VPL-AD-RPA3 2.4"-4.1" Round Pole Adapter for AD arm
- VPL-AD-RPA4 4.2"-5.3" Round Pole Adapter for AD arm
- VPL-AD-RPA5 5.5"-5.9" Round Pole Adapter for AD arm
- VPL-AD-RPA6 6.0"-6.5" Round Pole Adapter for AD arm

Accessories and Services (Ordered Separately)

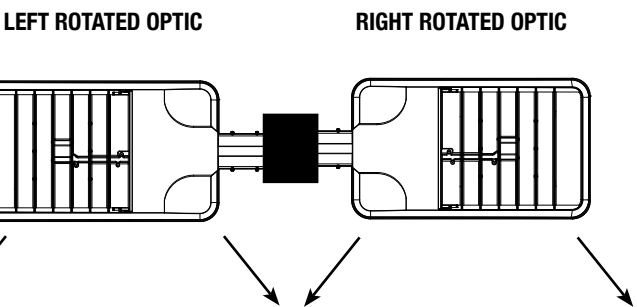
Catalog Number	Description
SWUSB*	SiteSync loaded on USB flash drive (Windows based only)
SWTAB*	SiteSync Windows Tablet
SWBRG*	SiteSync Wireless Bridge Node
SCP-REMOTE	Remote Control for SCP/_F option. Order at least one per project to program and control

* When ordering with SiteSync, one of the interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.
+ If needed, an additional Bridge Node can be ordered.

PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.hubbell-automation.com/products/sitesync/ or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DBT/SWP/ SiteSync only
VP-L/80L-235/4K7/3/UNV/A/DBT/SWPM-40F/ SiteSync with Motion Control



¹ Not available with other wireless control or sensor options
² Specify mounting height; 8 = 8" or less, 40 = 9' to 40'
³ Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options.
⁴ Specify group and zone at time of order. See www.hubbellighting.com/sitesync for further details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node
⁵ Only available with 1A, 2, 3, 4, 4W and 5R distributions
⁶ Order at least one SCP-REMOTE per project location to program and control
⁷ This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://cdn.beaconproducts.com/content/products/specs/specs_files/Viper_Large_LED_turtle_spec_sheet.pdf



Hubbell Control Solutions - Accessories (sold separately)

Catalog Number	Description	HCS System
NX0FM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE™ Lighting Control

For additional information related to these accessories please visit www.hubbellcontrolsolutions.com. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

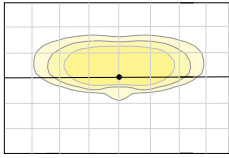
PERFORMANCE DATA				5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
64	625 mA	135W	FR	18220	132	2	0	2	18783	137	2	0	2	16341	119	2	0	2
			2	17228	125	2	0	2	17761	129	2	0	2	15452	112	2	0	2
			3	17257	125	2	0	3	17791	129	2	0	3	15478	112	2	0	3
			4	16864	123	1	0	4	17386	126	1	0	4	15125	110	1	0	3
			4W	16797	122	2	0	3	17317	126	2	0	3	15066	109	2	0	3
			5QM	17259	125	4	0	2	17792	129	4	0	2	15479	112	4	0	2
			5QN	18023	131	4	0	0	18580	135	4	0	0	16165	117	4	0	0
			5R	17410	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4
			5W	16498	120	4	0	2	17009	124	4	0	3	14797	108	4	0	2
			FR	23230	128	2	0	2	23948	132	2	0	2	20835	115	2	0	2
80	700 mA	180W	2	21965	121	3	0	3	22645	125	3	0	3	19701	109	2	0	3
			3	22003	121	2	0	4	22683	125	3	0	4	19734	109	2	0	4
			4	21502	119	2	0	4	22167	122	2	0	4	19285	106	2	0	4
			4W	21416	118	2	0	4	22079	122	2	0	4	19209	106	2	0	4
			5QM	22005	121	4	0	2	22686	125	4	0	2	19736	109	4	0	2
			5QN	22979	127	4	0	1	23689	131	4	0	1	20610	114	4	0	0
			5R	22197	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4
			5W	21035	116	5	0	3	21686	120	5	0	3	18867	104	4	0	3
			FR	27849	121	2	0	2	28711	125	2	0	2	24978	108	2	0	2
			2	26334	114	3	0	3	27148	118	3	0	4	23619	102	3	0	3
80	875 mA	235W	3	26378	114	3	0	4	27194	118	3	0	4	23659	103	3	0	4
			4	25777	112	2	0	4	26575	115	2	0	5	23120	100	2	0	4
			4W	25675	111	3	0	4	26469	115	3	0	4	23028	100	3	0	4
			5QM	26381	114	4	0	2	27196	118	4	0	2	23661	103	4	0	2
			5QN	27548	119	5	0	1	28400	123	5	0	1	24708	107	5	0	1
			5R	26611	115	5	0	5	27434	119	5	0	5	23868	104	4	0	4
			5W	25218	109	5	0	3	25998	113	5	0	3	22618	98	5	0	3
			FR	27876	128	2	0	2	28738	132	2	0	2	25002	115	2	0	2
			2	26359	121	3	0	3	27174	125	3	0	4	23641	109	3	0	3
			3	26403	121	3	0	4	27220	125	3	0	4	23681	109	3	0	4
96	700 mA	220W	4	25802	119	2	0	4	26600	122	2	0	5	23142	106	2	0	4
			4W	25700	118	3	0	4	26494	122	3	0	4	23050	106	3	0	4
			5QM	26406	121	4	0	2	27222	125	4	0	2	23683	109	4	0	2
			5QN	27575	127	5	0	1	28427	131	5	0	1	24732	114	5	0	1
			5R	26637	122	5	0	5	27460	126	5	0	5	23890	110	4	0	4
			5W	25242	116	5	0	3	26023	120	5	0	3	22640	104	5	0	3
			FR	33419	121	3	0	2	34453	125	3	0	2	29974	108	2	0	2
			2	31600	114	3	0	4	32577	118	3	0	4	28342	102	3	0	4
			3	31654	114	3	0	5	32633	118	3	0	5	28390	103	3	0	4
			4	30933	112	2	0	5	31889	115	2	0	5	27744	100	2	0	5
96	875 mA	280W	4W	30810	111	3	0	5	31763	115	3	0	5	27634	100	3	0	4
			5QM	31657	114	5	0	3	32636	118	5	0	3	28393	103	4	0	2
			5QN	33058	119	5	0	1	34080	123	5	0	1	29650	101	5	0	1
			5R	31933	115	5	0	5	32921	119	5	0	5	28641	104	5	0	5
			5W	30262	109	5	0	4	31198	113	5	0	4	27142	98	5	0	3
			FR	35666	113	3	0	2	36769	117	3	0	2	31989	101	2	0	2
			2	33725	107	3	0	4	34768	110	3	0	4	30248	96	3	0	4
			3	33782	107	3	0	5	34827	110	3	0	5	30299	96	3	0	4
			4	33012	105	2	0	5	34033	108	2	0	5	29609	94	2	0	5
			4W	32882	104	3	0	5	33899	107	3	0	5	29492	93	3	0	5
96	1000mA	315W ²	5QM	33785	107	5	0	3	34830	110	5	0	3	30302	96	5	0	2
			5QN	35280	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1
			5R	34080	108	5	0	5	35134	111	5	0	5	30567	97	5	0	5
			5W	32302	102	5	0	4	33301	106	5	0	4	28972	92	5	0	4
			FR	39569	101	3	0	4	43125	110	3	0	3	37518	96	3	0	2
			2	39569	101	3	0	4	40793	104	3	0	4	35490	91	3	0	4
			3	39619	101	3	0	5	40845	104	3	0	5	35535	91	3	0	5
			4	38723	98	3	0	5	39921	101	3	0	5	34731	88	2	0	5
			4W	38570	98	3	0	5	39763	101	3	0	5	34594	88	3	0	5
			5QM	39623	101	5	0	3	40848	104	5	0	3	35538	90	5	0	3
96	1225mA	395W ²	5QN	41394	105	5	0	1	42675	109	5	0	1	37127	95	5	0	1
			5R	39969	102	5	0	5	41205	105	5	0	5	35848	91	5	0	5
			5W	37877	97	5	0	4	39048	100	5	0	4	33986	87	5	0	4

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.
² 315W and 395W 3000K versions are not DLC QPL listed. Reference highlighted cells in table.

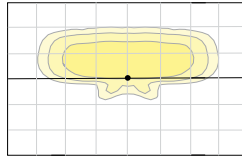


PHOTOMETRICS

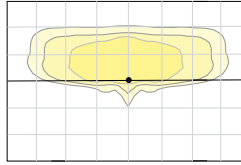
Type FR - Front Row/Auto Optic



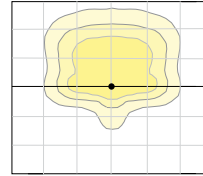
Type 2



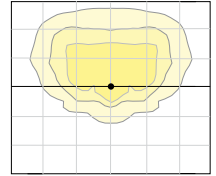
Type 3



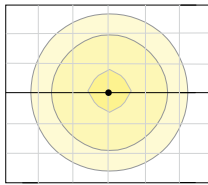
Type 4



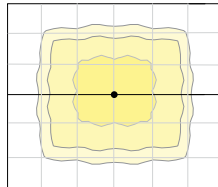
Type 4W



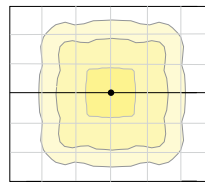
Type 5W



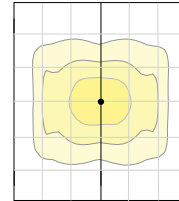
Type 5QN



Type 5QM



Type 5R



ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			277		0.6
			347		0.5
			480		0.3
80	2	700 mA	120	180	1.8
			277		0.8
			347		0.6
			480		0.5
80	2	875 mA	120	235	2.4
			277		1.0
			347		0.8
			480		0.6
96	2	700 mA	120	220	2.2
			277		1.0
			347		0.8
			480		0.6
96	2	875 mA	120	280	2.8
			277		1.2
			347		1.0
			480		0.7
96	2	1000 mA	120	315	3.2
			277		1.4
			347		1.1
			480		0.8
96	2	1225 mA	120	395	4.0
			277		1.7
			347		1.4
			480		1.0

PROJECTED LUMEN MAINTENANCE

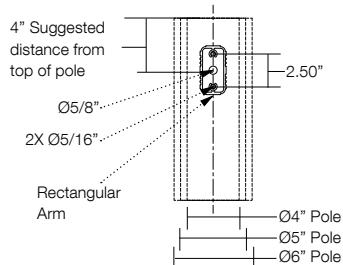
AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

¹ Projected per IESNA TM-21-11

Data references the extrapolated performance projections for the 700mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

DRILL PATTERN

Compatible with Pole drill pattern B3



EPA

Config.	EPA	Config.	EPA
1	1.2	3 @ 120°	3.0
2 @ 90°	1.9	3 @ 90°	3.1
2 @ 180°	2.4	4 @ 90°	3.8

TENON TOP POLE BRACKET ACCESSORIES (Order Separately)

(2 3/8" OD tenon)

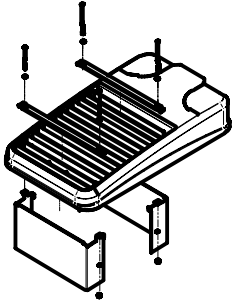
Catalog Number	Description
SETA2-XX ^{1,2}	Square tenon adapter (4 at 90 degrees)
RETA2-XX ^{1,3}	Round tenon adapter (4 at 90 degrees)
TETA2-XX ^{1,2}	Hexagonal tenon adapter (3 at 120 degrees)

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

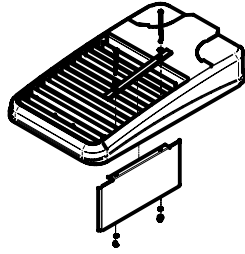
² Only for use with AD mounting option

³ Only for use with AD3 mounting option

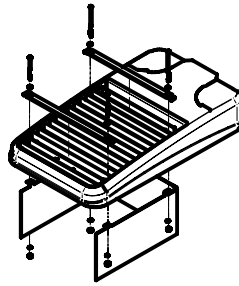
HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



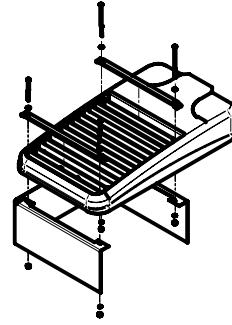
HSS/EVP-L/90-FB/XXX
90° shield front or back
(2 shields shown)



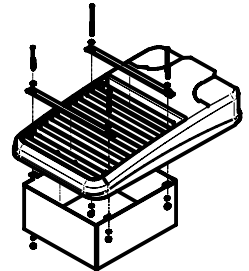
HSS/EVP-L/90-LR/XXX
90° shield left or right
(1 shield shown in left orientation)



HSS/EVP-L/270-FB/XXX
270° shield front or back
(1 shield shown in back orientation)

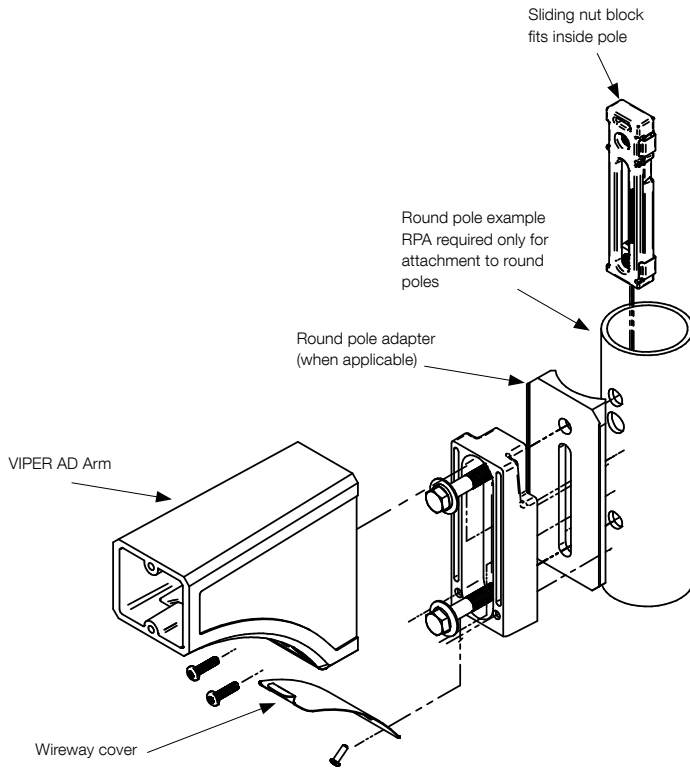


HSS/EVP-L/270-LR/XXX
270° shield left or right
(1 shield shown in right orientation)



HSS/EVP-L/360/XXX
Full shield
(1 shield shown)

AD ARM MOUNTING INSTRUCTIONS



VIPER L

OPTICS

STRIKE

LARGE VIPER LUMINAIRE

Cat.#

Job

Type


BEACON
 design . performance . technology

Approvals

SPECIFICATIONS

Intended Use:

The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- Two-piece silicone and microcellular polyurethane foam gasket ensures a weather-proof seal around each individual optic.

Electrical:

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (UNV), 347V, or 480V input.
- Power factor is $\geq .90$ at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Fixture electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20kA.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see www.beaconproducts.com/products/energeni).
- In addition, Viper can be specified with **SiteSync™** wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: www.hubbelling.com/sitesync

Installation:

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included.

Finish:

- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Certifications/Ratings:

- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>
- Certified to UL 1598, UL 8750, and CSA C22.2
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://www.beaconproducts.com/products/viper_large

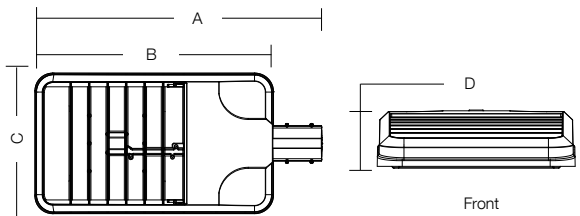
Warranty:

Five year limited warranty for more information visit: www.hubbelling.com/resources/warranty

PRODUCT IMAGE(S)

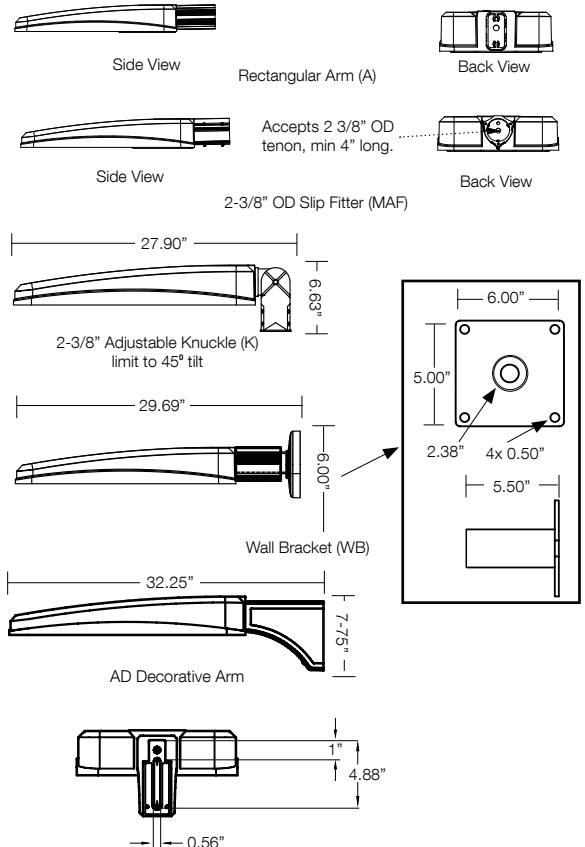


DIMENSIONS



A	B	C	D	Weight:	EPA
29.9"	24.19"	14.25"	4.13"	25.0 lbs	1.2 ft ²
(741 mm)	(614 mm)	(362 mm)	(105 mm)	(11.3 kg)	

MOUNTING OPTIONS



CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

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

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VPL								
SERIES	LED ENGINE	CCT/CRI ⁷	ROTATION	VOLTAGE	COLOR	OPTIONS		
VPL Viper	64L-135 135W LED array 80L-180 180W LED array 80L-235 235W LED array 96L-220 220W LED array 96L-280 280W LED array 96L-315 315W LED array 96L-395 395W LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	Leave blank for no rotation L ⁵ Optic rotation left R ⁵ Optic rotation right	UNV 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	DBT Dark Bronze Textured BMT Black Matte Textured PS Platinum Silver Smooth WHT White Textured CC Custom Color (RAL#)	F Fusing BSP Bird Spikes BC Backlight control (limited to Type 4W only)		

DISTRIBUTION

- FR Type 1/Front Row
- 2 Type 2
- 3 Type 3
- 4 Type 4
- 4W Type 4 Wide
- 5QM Type 5QM
- 5QN Type 5QN
- 5R Type 5R (rectangular)
- 5W Type 5W (round wide)

MOUNTING

- A Rectangular Arm (formerly RA) for square or round pole
- MAF Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm
- K Knuckle (formerly PK2) limit to 45° tilt or 2-3/8" OD horizontal arm or vertical tenon
- WB Wall Bracket
- AD Universal Arm for square pole
- AD3 Universal Arm for 2.4"-4.1" round pole
- AD4 Universal Arm for 4.2"-5.3" round pole
- AD5 Universal Arm for 5.5"-5.9" round pole
- AD6 Universal Arm for 6.0"-6.5" round pole

CONTROL OPTIONS

- 7PR 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)
- 7PR-SC 7-Pin Receptacle w/Shorting Cap
- 7PR-TL 7-Pin Receptacle w/Twist Lock photo control
- SCP/_F^{1,2,6} Programmable Occupancy Sensor w/ daylight control (120-277 volts only)
- WSP/_F^{1,2} WASP Occupancy Sensor w/ daylight control (347 or 480 volts only)
- GENI-XX³ ENERGENI
- SWP^{1,4} SiteSync Pre-Commission
- SWPM^{1,2,4} SiteSync Pre-Commission w/ Sensor

HOUSE SIDE SHIELD ACCESSORIES

- HSS/EVP-L/90-FB/XXX 90° shield front or back
- HSS/EVP-L/90-LR/XXX 90° shield left or right
- HSS/EVP-L/270-FB/XXX 270° shield front or back
- HSS/EVP-L/270-LR/XXX 270° shield left or right
- HSS/EVP-L/360/XXX Full shield

(Replace XXX with notation for desired finish color)
(Refer to page 5 for shield images)

MOUNTING ACCESSORIES

- VPL-AD-RPA3 2.4"-4.1" Round Pole Adapter for AD arm
- VPL-AD-RPA4 4.2"-5.3" Round Pole Adapter for AD arm
- VPL-AD-RPA5 5.5"-5.9" Round Pole Adapter for AD arm
- VPL-AD-RPA6 6.0"-6.5" Round Pole Adapter for AD arm

Accessories and Services (Ordered Separately)

Catalog Number	Description
SWUSB*	SiteSync loaded on USB flash drive (Windows based only)
SWTAB*	SiteSync Windows Tablet
SWBRG*	SiteSync Wireless Bridge Node
SCP-REMOTE	Remote Control for SCP/_F option. Order at least one per project to program and control

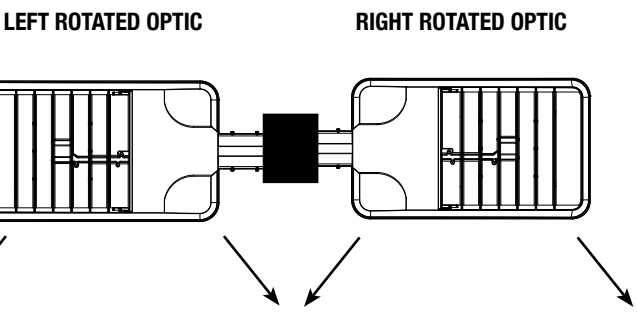
* When ordering with SiteSync, one of the interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.
+ If needed, an additional Bridge Node can be ordered.

PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.hubbell-automation.com/products/sitesync/ or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DBT/SWP/ SiteSync only
VP-L/80L-235/4K7/3/UNV/A/DBT/SWPM-40F/ SiteSync with Motion Control

¹ Not available with other wireless control or sensor options
² Specify mounting height; 8 = 8" or less, 40 = 9' to 40'
³ Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options.
⁴ Specify group and zone at time of order. See www.hubbellighting.com/sitesync/ for further details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node
⁵ Only available with 1A, 2, 3, 4, 4W and 5R distributions
⁶ Order at least one SCP-REMOTE per project location to program and control
⁷ This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://cdn.beaconproducts.com/content/products/specs/specs_files/Viper_Large_LED_turtle_spec_sheet.pdf



Hubbell Control Solutions - Accessories (sold separately)

Catalog Number	Description	HCS System
NX0FM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE™ Lighting Control

For additional information related to these accessories please visit www.hubbellcontrolsolutions.com. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.



SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.



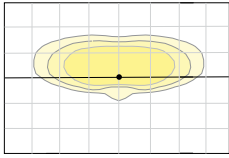
PERFORMANCE DATA				5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
64	625 mA	135W	FR	18220	132	2	0	2	18783	137	2	0	2	16341	119	2	0	2
			2	17228	125	2	0	2	17761	129	2	0	2	15452	112	2	0	2
			3	17257	125	2	0	3	17791	129	2	0	3	15478	112	2	0	3
			4	16864	123	1	0	4	17386	126	1	0	4	15125	110	1	0	3
			4W	16797	122	2	0	3	17317	126	2	0	3	15066	109	2	0	3
			5QM	17259	125	4	0	2	17792	129	4	0	2	15479	112	4	0	2
			5QN	18023	131	4	0	0	18580	135	4	0	0	16165	117	4	0	0
			5R	17410	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4
			5W	16498	120	4	0	2	17009	124	4	0	3	14797	108	4	0	2
			5W	23230	128	2	0	2	23948	132	2	0	2	20835	115	2	0	2
80	700 mA	180W	FR	21965	121	3	0	3	22645	125	3	0	3	19701	109	2	0	3
			2	22003	121	2	0	4	22683	125	3	0	4	19734	109	2	0	4
			3	21502	119	2	0	4	22167	122	2	0	4	19285	106	2	0	4
			4	21416	118	2	0	4	22079	122	2	0	4	19209	106	2	0	4
			4W	22005	121	4	0	2	22686	125	4	0	2	19736	109	4	0	2
			5QM	22979	127	4	0	1	23689	131	4	0	1	20610	114	4	0	0
			5QN	22197	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4
			5R	21035	116	5	0	3	21686	120	5	0	3	18867	104	4	0	3
			5W	27849	121	2	0	2	28711	125	2	0	2	24978	108	2	0	2
			5W	26334	114	3	0	3	27148	118	3	0	4	23619	102	3	0	3
80	875 mA	235W	2	26378	114	3	0	4	27194	118	3	0	4	23659	103	3	0	4
			3	25777	112	2	0	4	26575	115	2	0	5	23120	100	2	0	4
			4	25675	111	3	0	4	26469	115	3	0	4	23028	100	3	0	4
			4W	26381	114	4	0	2	27196	118	4	0	2	23661	103	4	0	2
			5QM	27548	119	5	0	1	28400	123	5	0	1	24708	107	5	0	1
			5QN	26611	115	5	0	5	27434	119	5	0	5	23868	104	4	0	4
			5R	25218	109	5	0	3	25998	113	5	0	3	22618	98	5	0	3
			5W	27876	128	2	0	2	28738	132	2	0	2	25002	115	2	0	2
			5W	26359	121	3	0	3	27174	125	3	0	4	23641	109	3	0	3
			5W	26403	121	3	0	4	27220	125	3	0	4	23681	109	3	0	4
96	700 mA	220W	2	25802	119	2	0	4	26600	122	2	0	5	23142	106	2	0	4
			3	25700	118	3	0	4	26494	122	3	0	4	23050	106	3	0	4
			4	26406	121	4	0	2	27222	125	4	0	2	23683	109	4	0	2
			4W	27575	127	5	0	1	28427	131	5	0	1	24732	114	5	0	1
			5QM	26637	122	5	0	5	27460	126	5	0	5	23890	110	4	0	4
			5QN	25242	116	5	0	3	26023	120	5	0	3	22640	104	5	0	3
			5R	33419	121	3	0	2	34453	125	3	0	2	29974	108	2	0	2
			5W	31600	114	3	0	4	32577	118	3	0	4	28342	102	3	0	4
			5W	31654	114	3	0	5	32633	118	3	0	5	28390	103	3	0	4
			5W	30933	112	2	0	5	31889	115	2	0	5	27744	100	2	0	5
96	875 mA	280W	4	30810	111	3	0	5	31763	115	3	0	5	27634	100	3	0	4
			4W	31657	114	5	0	3	32636	118	5	0	3	28393	103	4	0	2
			5QM	33058	119	5	0	1	34080	123	5	0	1	29650	101	5	0	1
			5QN	31933	115	5	0	5	32921	119	5	0	5	28641	104	5	0	5
			5R	30262	109	5	0	4	31198	113	5	0	4	27142	98	5	0	3
			5W	35666	113	3	0	2	36769	117	3	0	2	31989	101	2	0	2
			5W	33725	107	3	0	4	34768	110	3	0	4	30248	96	3	0	4
			5W	33782	107	3	0	5	34827	110	3	0	5	30299	96	3	0	4
			5W	33012	105	2	0	5	34033	108	2	0	5	29609	94	2	0	5
			5W	32882	104	3	0	5	33899	107	3	0	5	29492	93	3	0	5
96	1000mA	315W ²	5QM	33785	107	5	0	3	34830	110	5	0	3	30302	96	5	0	2
			5QN	35280	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1
			5R	34080	108	5	0	5	35134	111	5	0	5	30567	97	5	0	5
			5W	32302	102	5	0	4	33301	106	5	0	4	28972	92	5	0	4
			5W	39569	101	3	0	4	43125	110	3	0	3	37518	96	3	0	2
			5W	39569	101	3	0	4	40793	104	3	0	4	35490	91	3	0	4
			5W	39619	101	3	0	5	40845	104	3	0	5	35535	91	3	0	5
			5W	38723	98	3	0	5	39921	101	3	0	5	34731	88	2	0	5
			5W	38570	98	3	0	5	39763	101	3	0	5	34594	88	3	0	5
			5W	39623	101	5	0	3	40848	104	5	0	3	35538	90	5	0	3
96	1225mA	395W ²	5QN	41394	105	5	0	1	42675	109	5	0	1	37127	95	5	0	1
			5R	39969	102	5	0	5	41205	105	5	0	5	35848	91	5	0	5
			5W	37877	97	5	0	4	39048	100	5	0	4	33986	87	5	0	4

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.
² 315W and 395W 3000K versions are not DLC QPL listed. Reference highlighted cells in table.

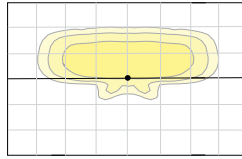


PHOTOMETRICS

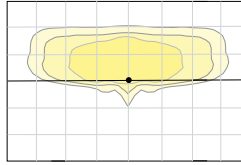
Type FR - Front Row/Auto Optic



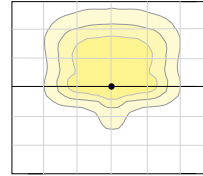
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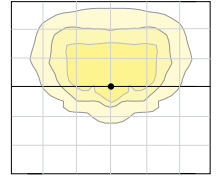
Type 3



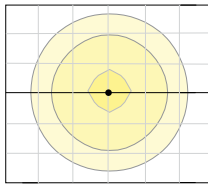
Type 4



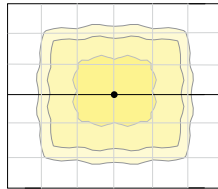
Type 4W



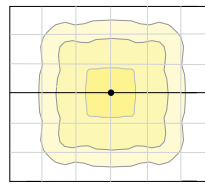
Type 5W



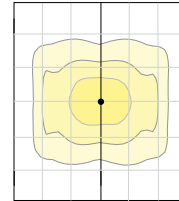
Type 5QN



Type 5QM



Type 5R



ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			277		0.6
			347		0.5
			480		0.3
80	2	700 mA	120	180	1.8
			277		0.8
			347		0.6
			480		0.5
80	2	875 mA	120	235	2.4
			277		1.0
			347		0.8
			480		0.6
96	2	700 mA	120	220	2.2
			277		1.0
			347		0.8
			480		0.6
96	2	875 mA	120	280	2.8
			277		1.2
			347		1.0
			480		0.7
96	2	1000 mA	120	315	3.2
			277		1.4
			347		1.1
			480		0.8
96	2	1225 mA	120	395	4.0
			277		1.7
			347		1.4
			480		1.0

PROJECTED LUMEN MAINTENANCE

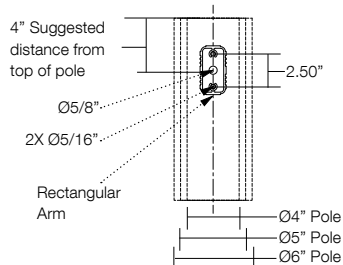
AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

¹ Projected per IESNA TM-21-11

Data references the extrapolated performance projections for the 700mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

DRILL PATTERN

Compatible with Pole drill pattern B3



EPA

Config.	EPA	Config.	EPA
1	1.2	3 @ 120°	3.0
2 @ 90°	1.9	3 @ 90°	3.1
2 @ 180°	2.4	4 @ 90°	3.8

TENON TOP POLE BRACKET ACCESSORIES (Order Separately)

(2 3/8" OD tenon)

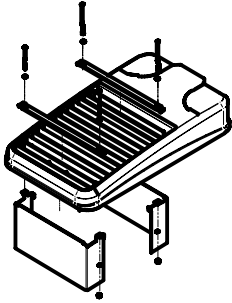
Catalog Number	Description
SETA2-XX ^{1,2}	Square tenon adapter (4 at 90 degrees)
RETA2-XX ^{1,3}	Round tenon adapter (4 at 90 degrees)
TETA2-XX ^{1,2}	Hexagonal tenon adapter (3 at 120 degrees)

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

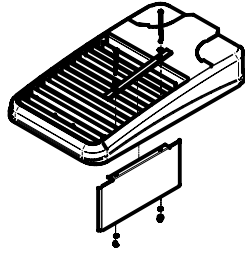
² Only for use with AD mounting option

³ Only for use with AD3 mounting option

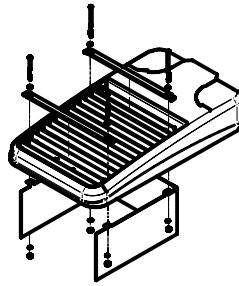
HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



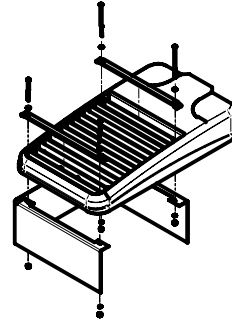
HSS/EVP-L/90-FB/XXX
90° shield front or back
(2 shields shown)



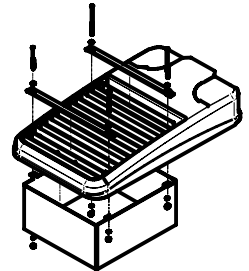
HSS/EVP-L/90-LR/XXX
90° shield left or right
(1 shield shown in left orientation)



HSS/EVP-L/270-FB/XXX
270° shield front or back
(1 shield shown in back orientation)

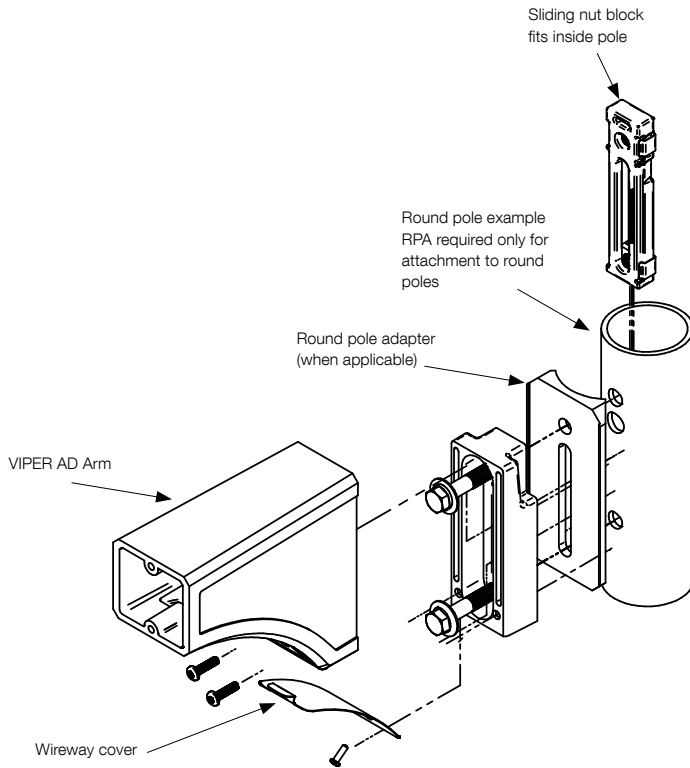


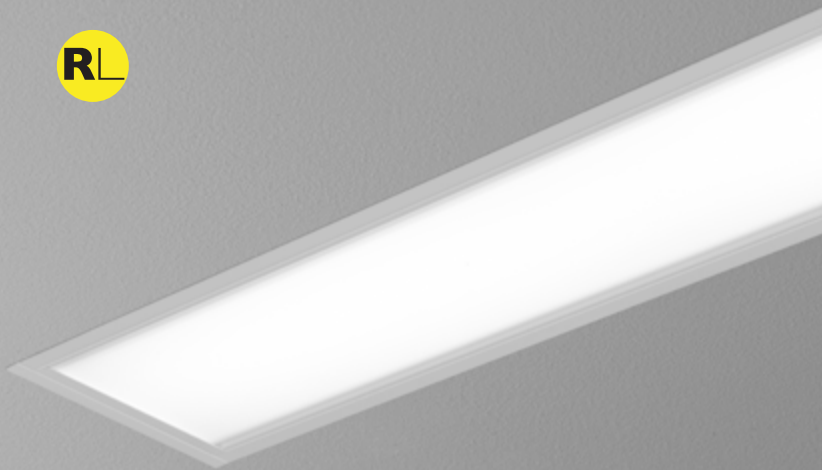
HSS/EVP-L/270-LR/XXX
270° shield left or right
(1 shield shown in right orientation)



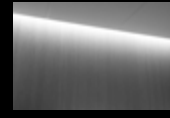
HSS/EVP-L/360/XXX
Full shield
(1 shield shown)

AD ARM MOUNTING INSTRUCTIONS



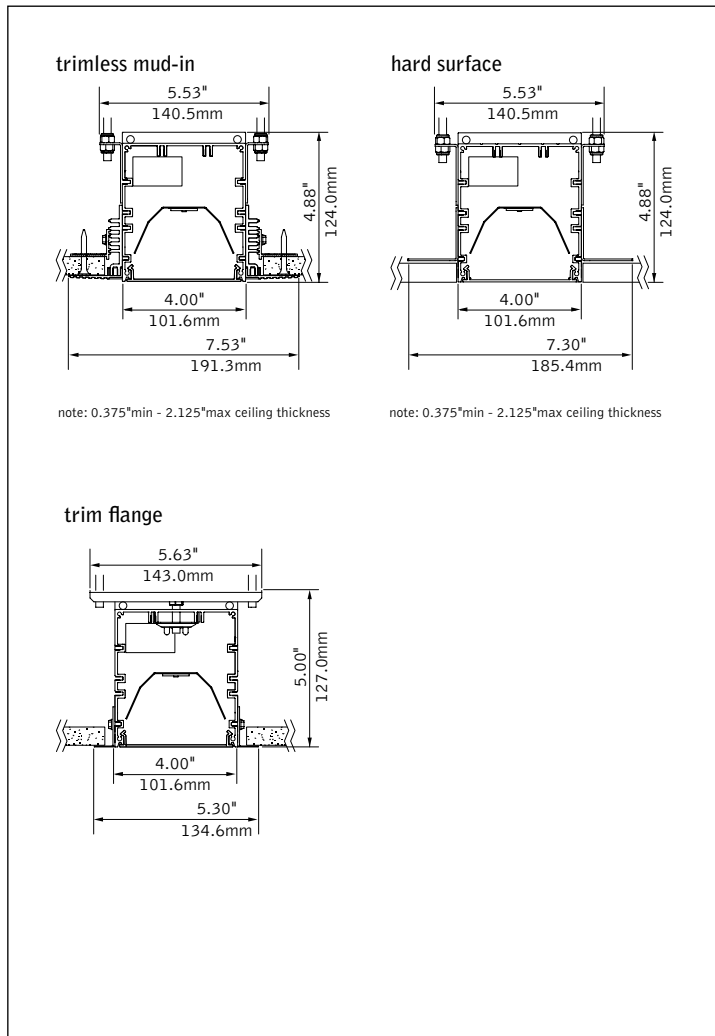


end detail



perimeter companion

DIMENSIONAL DATA



FEATURES

Narrow extruded aluminum 4" aperture recessed slot LED suitable for wet location.

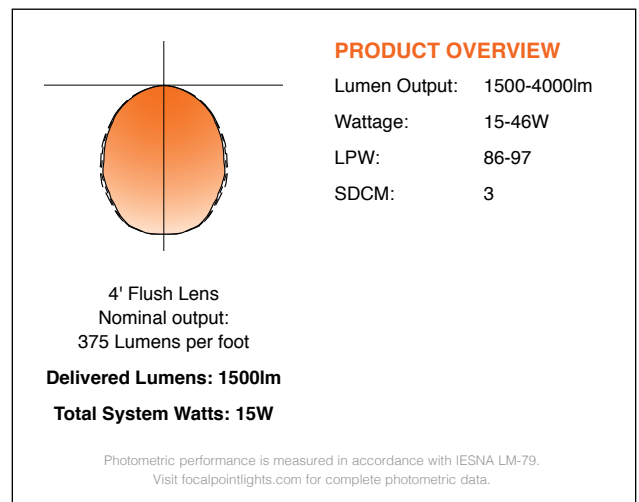
Integrates with ceiling for a clean, unobtrusive aesthetic.

Individual units in 1' increments up to 8'.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

PERFORMANCE



fixture:

project:

SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 3000K, 3500K or 4000K with CRI>80, 3SDCM. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Housing for new construction applications. XFW acceptable for use with wood, consult factory for Type IC availability. 2' unit weight: 18 lbs., 3' unit weight: 24 lbs., 4' unit weight: 30 lbs., 5' unit weight: 36 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Dimming range 100% to 10%. Power factor > .9.

Emergency

Output - 10 watts for 90 minutes. Maximum mounting height: 19.2ft.

Labels

UL and cUL wet listed for recessed ceiling applications in indoor and outdoor locations. Lutron Drivers not recommended for outdoor environments below 0°C.

Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance

Reported: L70 at >61,000 hours Calculated: L70 at 287,000 hours
 L90 at >61,000 hours L90 at 74,000 hours
Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

4' PERFORMANCE CHART

Shielding	Lumens per Foot	Delivered Lumens	Tested System Watts	LWP
Flush Lens	375LF	1500	15	97
	625LF	2500	26	95
	875LF	3500	39	89
	1000LF	4000	46	86

Based on 3500k, 4' lengths. *Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

ORDERING

Luminaire Series	FSM4LWL
Seem 4 LED Wet Location	FSM4LWL
Shielding	FL
Flush Satin Lens <small>(Ceiling applications only)</small>	FL
Lumen Output	
275 Lumens per foot <small>(Not available with L3D driver)</small>	275LF
375 Lumens per foot	375LF
625 Lumens per foot	625LF
875 Lumens per foot	875LF
1000 Lumens per foot <small>(Not available with L3D driver)</small>	1000LF
Color Temperature	
3000K	30K
3500K	35K
4000K	40K
Circuit	1C
Single Circuit	1C
Voltage	UNV
UNV 120/277 Volt	UNV
Control System & Dimming Level	
0-10V - 1% Dimming <small>(Consult factory)</small>	L11
0-10V - 10% Dimming	LD1
Lutron A-Series	
1% EcoSystem Digital <small>(Not recommended for outdoor environments below 0°C. Consult factory for 3-wire control)</small>	L3D
Ceiling Configuration	
Trim Flange Drywall <small>(3' minimum with Lutron Drivers)</small>	TF
Trim Flange Wood <small>(3' minimum with Lutron Drivers)</small>	TFW
Mud-in Trimless, pre-set for 1/2" Drywall	XF1
Mud-in Trimless, pre-set for 5/8" Drywall	XF2
Mud-in Trimless, set thickness in field <small>(Mounting equipment assembled in field)</small>	XFF
Non-Drywall Hard Surface	XFN
Hard Surface, Wood	XFW
Factory Options	
Chicago Plenum	CP
Emergency Circuit	EC
Emergency Battery Pack <small>(4' lengths or longer)</small>	EM
6' New York City Flex Whip (120V)	FNY1
6' New York City Flex Whip (277V)	FNY2
6' Flex Whip	FW
Finish	WH
Matte White Housing	WH
Luminaire Length <small>(Lengths are nominal)</small>	
2' <small>(not available with combination of TF or TFW & L3D options)</small>	2'
3'	3'
4'	4'
5'	5'
6'	6'
7'	7'
8'	8'
<small>(Smaller increments available. Consult factory for details.)</small>	

confirm

Seem® 4

LED - FLUSH LENS

FSM4L-FL-375LF-35K-1C-UNV-LD1-G1-CP-WH-4'

Filename: FSM4LFL375LF35K.IES

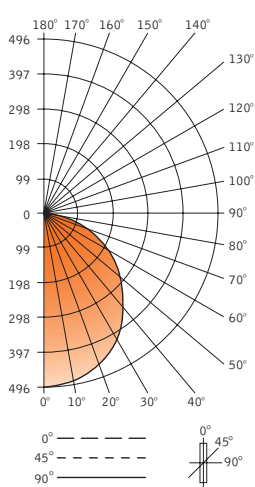
Test #: 11499493.01

Lumens: 1423lm

System Watts: 15W

LPW: 95

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	496	496	496	496	496
5°	493	496	493	493	494
15°	475	479	475	476	477
25°	439	443	439	440	440
35°	386	390	387	387	388
45°	322	325	322	323	324
55°	253	255	253	254	254
65°	176	179	178	179	180
75°	100	102	102	104	104
85°	31	32	31	31	31
90°	0	2	2	2	2
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	384	27.0
0-40°	627	44.1
0-60°	1103	77.5
0-90°	1423	100.00
Total Luminaire 0-180°	1423	100.0

LUMINANCE DATA (cd/M²)

Vertical Angle	Horizontal		
	0°	45°	90°
45°	3757	3760	3774
55°	3634	3642	3657
65°	3441	3473	3506
75°	3193	3261	3313
85°	2923	2967	2970

Go to www.focalpointlights.com for additional photometric data.

T-SERIES: ROUND-SQUARE LED

TRO, TRE, TSO, TSE

SPECIFICATION FEATURES

- HOUSING:** Die cast aluminum housing with a choice of an open front frame or half cut off front frame (eyelid).
- LENS:** Opal Polycarbonate.
- LED:** Available in three color temperatures 3500°K, 4000°K and 5000°K. Other color temperatures available, consult factory.
- REFLECTOR:** Aluminum, removable, and utilized with all electrical components for easy installation and maintenance.
- FASTENERS:** Tamper resistant Allen Head screws.
- FINISH:** Extremely durable powder coat finish over a chromate conversion coating. Available in Bronze or Custom Color.
- GASKET:** Long-life gasket promotes water and dust tight seal between housing and front-lens assembly.



APPLICATION:
Public Areas, Corridors, Stairways, Underpasses, Parking Garages, Restrooms, Lobbies, Schools, and more.

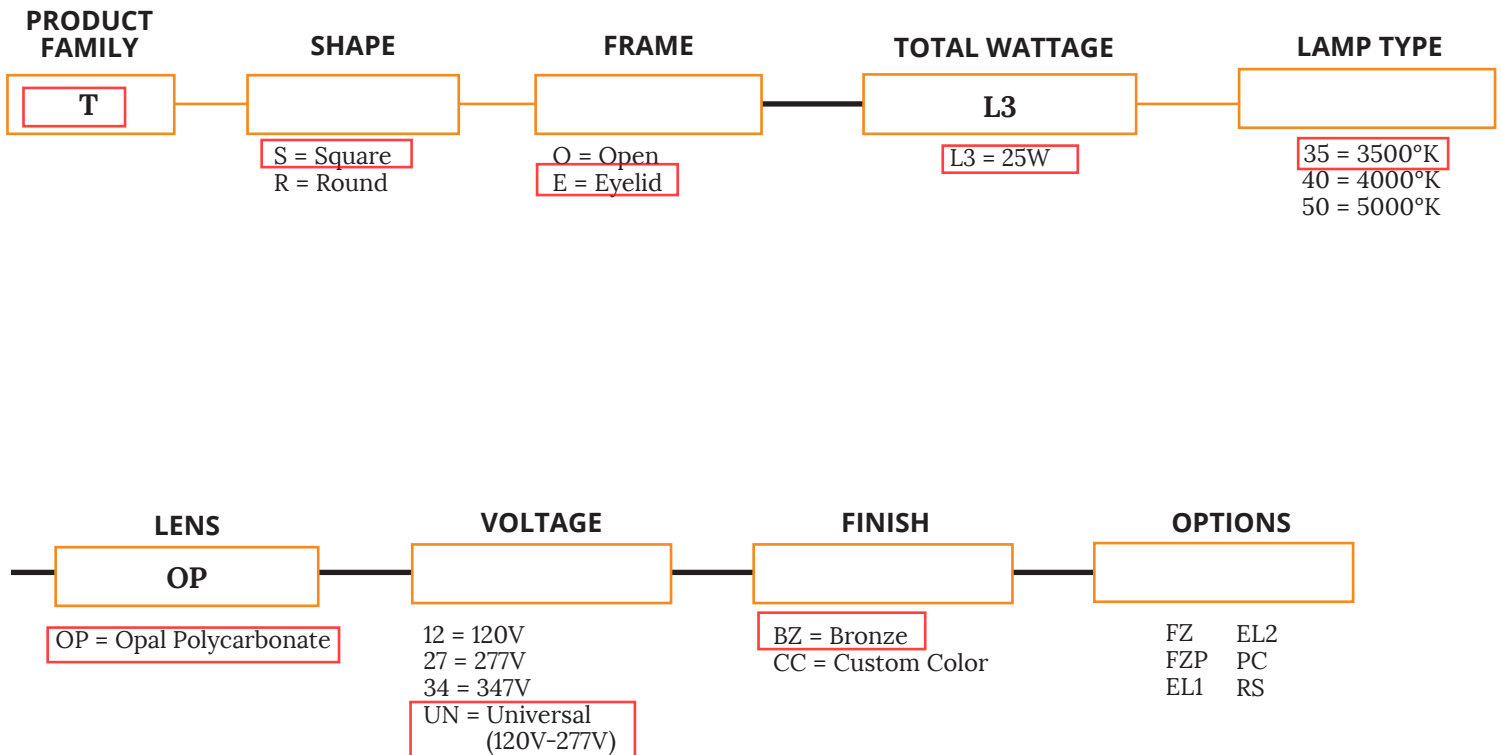
MOUNTING:
Surface Wall Mount Installation

LABEL:
Fixture is certified to UL standards



ORDERING INFORMATION

Ex: TRE-L335-OP-UN-BZ



KEY

- FZ = Fuse (standard in-line) PC = Photocell .. Subject to change
FZP = Fuse (panel mount for Eyelid only) RS = Rocker Switch (Eyelid only)
- EL1 = Emerg. Bat. LED Low (5W)
EL2 = Emerg. Bat. LED High (12W)

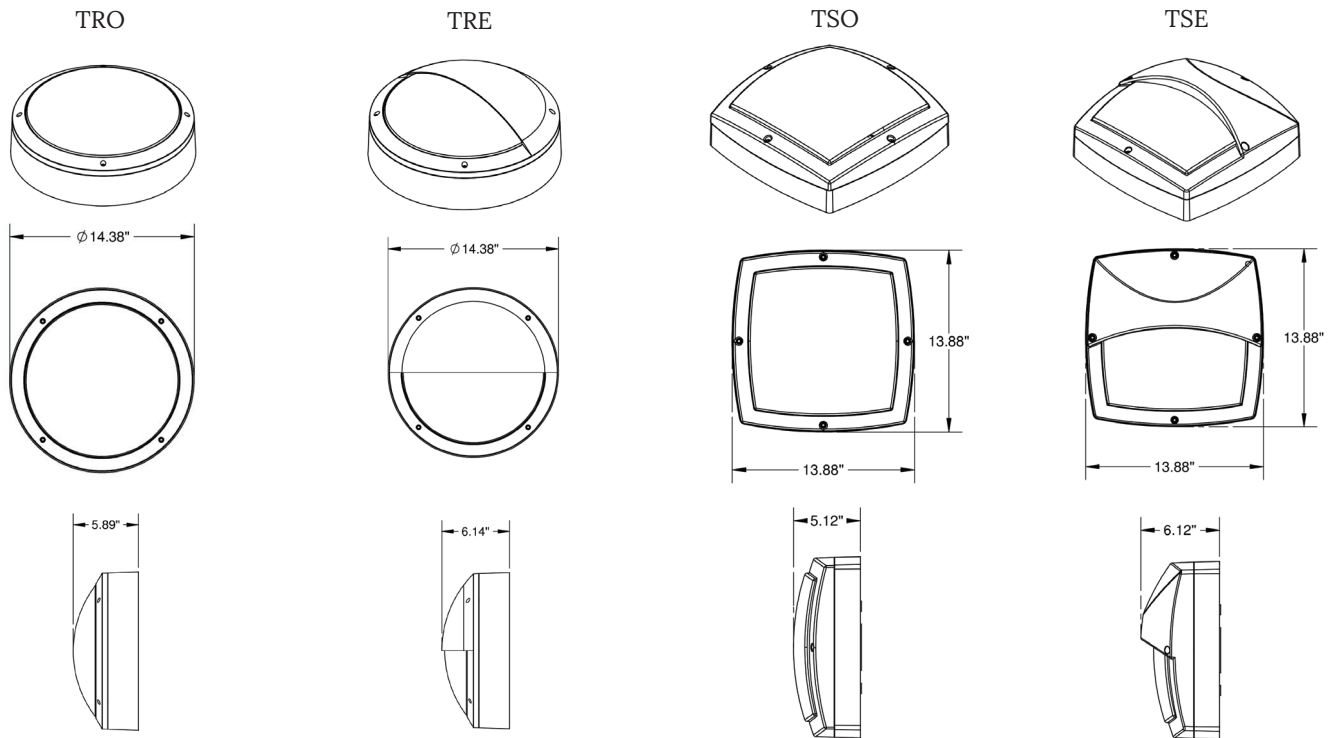
Notes:
Image shown is a TRE
Specifications and Dimensions are subject to change without notice.
For additional options and dimensional details please consult your New Star Lighting Representative.

T-SERIES: ROUND-SQUARE LED

TRO, TRE, TSO, TSE



DIMENSIONAL DATA



PERFORMANCE DATA**

MODEL	LAMP TYPE	LUMENS DELIVERED	EFFICACY (lm/W)	INPUT POWER (W)
TRO	3500°K	2650	106	25
	4000°K	2824	113	25
	5000°K	2812	112	25
TRE	3500°K	2240	90	25
	4000°K	2345	94	25
	5000°K	2378	95	25
TSO	3500°K	2273	91	25
	4000°K	2379	95	25
	5000°K	2413	97	25
TSE	3500°K	2055	82	25
	4000°K	2150	86	25
	5000°K	2181	87	25

Notes:

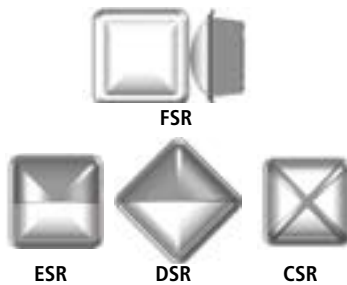
**Specifications, Performance Data and Dimensions are subject to change without notice.
For additional options and dimensional details please consult your New Star Lighting Representative.

MILLENIUM™ SQUARE

MS15 SERIES – SEMI-RECESSED

PRODUCT FEATURES:

- » Semi-recessed mount – ceiling (FSR & CSR only) or wall mount; 15"W×15"W×4"D (CSR, ESR, FSR) 20"W×20"W×4"D (DSR)
- » Peace of Mind Guarantee®
- » Dust and water protected to IP64 standards
- » ADA Compliant



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS

HOUSING (SERIES PP, ND, CO): Marine grade die-cast aluminum housing with integral heat sinks. Housing interlocks to lens base producing maximum moisture deflection and resistance to prying. Standard dark bronze exterior TGIC polyester powder coat – 5-step pre-treatment.

HOUSING (SERIES NL, CC): 18-gauge CRS housing. Housing interlocks to lens base producing maximum moisture deflection and resistance to prying. Standard matte white exterior TGIC polyester powder coat – 5-step pre-treatment.

REFLECTOR: Full reflector/wire cover – 92% reflectivity.

LENS: UV-stabilized, high impact resistant, virgin injection molded polycarbonate. High efficiency blonded fluted lens maximizes uniformity. Lens secured with four concealed captive Torx® with center pin fasteners. Exclusive water channeling lens design provides 360° ingress protection.

LENS BASE: Marine grade die-cast aluminum. Standard matte black, dark bronze or matte white exterior TGIC polyester powder coat finished – 5-step pre-treatment. See Ordering Information for optional finishes.

EYELID/GRILLE: High impact resistant, injection molded matte black, dark bronze or matte white polycarbonate. Optional Light Gray, Silver, Forest Green or Custom Color (see Ordering Information below) are chemically bonded, impact resistant finishes.

GASKETING: Closed cell, silicone "O" ring gaskets positioned in gasket channels of lens base and in Series PP, ND, CO housing.

HARDWARE: Four stainless steel Torx® with center pin fasteners.

ELECTRICAL: Available in 3500K, 4000K, and 5000K color temperatures, 80 CRI. 120-277VAC, 50/60Hz electrical input with high power factor electronic, constant-current driver (>.90 PF). Standard 0-10V dimming with 1-100% range; maximum driver source of 200 µA

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric information, go to www.kenall.com.

INSTALLATION: See [Technical Data Sheets](#) for semi-recessed installation details, mounting options and rough-in box part number.

WARRANTY: One (1) year warranty against defects in materials and workmanship. Five (5) year warranty on LED lamps and driver for defects resulting in a fixture lumen depreciation of 30% or greater.

LISTINGS: UL and CUL listed for Wet Location (listing includes Emergency Battery Pack "LEL" option). UL certified IP64 per IEC 60598.



ORDERING INFORMATION (Ex: MS15ESR-PP-PP-MB-25L40K-DV)

Model	Mounting	Lens Type	Finish	Lamp Type	Voltage	Options	Accessories
PP							
Model			Finish		Voltage		
MS15FSR	Full Face		MB	Matte Black	347	347 Volts	
MS15CSR	Crossbar		MW	Matte White	DV	120-277 Volts	
MS15DSR	Diamond Eyelid		DB	Dark Bronze			
MS15ESR	Eyelid		LG	Light Gray			
			SL	Silver			
			FG	Forest Green			
			CC	Custom Color (Consult factory)			
Mounting Type			Lamp Type			Options	
PP	Pour-in-Place or Masonry		15L35K	15 Watt 3500K LED		LEL▲	LED Emergency Battery Backup (n/a with 347V; 15L max. on MS15DSR/ESR)
ND	Non IC (Deep Profile)		15L40K	15 Watt 4000K LED		10KV▲	IEEE C62.41.2 High Surge Protector
NL	Non IC (Low Profile)		15L50K	15 Watt 5000K LED		FS	Single Fuse & Holder
CC*	Canopy (Covered Top)		25L35K	25 Watt 3500K LED		NAT	Natatorium Environment Option
CO*	Canopy (Open Top)		25L40K	25 Watt 4000K LED			
			25L50K	25 Watt 5000K LED			
Lens Type						Accessories	
PP	Pearlescent Polycarbonate					9500	Torx® Screwdriver
							* Ceiling Mounting Only
							▲ LEL and 10KV options not available in conjunction



www.kenall.com

P: 800-4-Kenall

F: 262-891-9701

10200 55th Street Kenosha, Wisconsin 53144

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MS15_SR-021116

MILLENIUM™ SQUARE

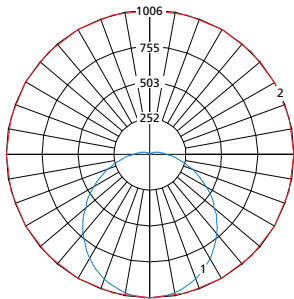
MS15 SERIES – SEMI-RECESSED

PERFORMANCE

Model	Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (hrs)
		@ 25°C (lm)	Efficacy (lm/W)			
MS15FSR	15L35K	2,222	113	20	75	100,000
	15L40K	2,222	113	20	75	100,000
	15L50K	2,422	124	20	75	100,000
	25L35K	3,258	111	30	63	100,000
	25L40K	3,258	111	30	63	100,000
	25L50K	3,551	121	30	63	100,000
MS15CSR	15L35K	1,784	91	20	75	100,000
	15L40K	1,784	91	20	75	100,000
	15L50K	1,945	99	20	75	100,000
	25L35K	2,616	89	30	63	100,000
	25L40K	2,616	89	30	63	100,000
	25L50K	2,851	97	30	63	100,000
MS15DSR	15L35K	1,823	95	20	75	85,000
	15L40K	1,823	95	20	75	85,000
	15L50K	1,988	104	20	75	85,000
	25L35K	2,674	91	30	63	85,000
	25L40K	2,674	91	30	63	85,000
	25L50K	2,914	99	30	63	85,000
MS15ESR	15L35K	1,860	97	20	75	85,000
	15L40K	1,860	97	20	75	85,000
	15L50K	2,028	106	20	75	85,000
	25L35K	2,727	93	30	63	85,000
	25L40K	2,727	93	30	63	85,000
	25L50K	2,973	101	30	63	85,000

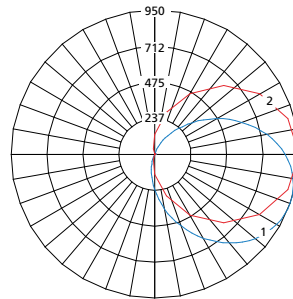
Info subject to change. Visit www.kenall.com for IES files and additional information.

Model: MS15FSR-PP-MW-25L40K-DCC-DV



Max Candela = 1006 Located At Horizontal Angle = 0, Vertical Angle = 0
 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: MS15ESR-PP-MW-25L40K-DCC-DV



Max Candela = 950 Located At Horizontal Angle = 0, Vertical Angle = 65
 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)



www.kenall.com

P: 800-4-Kenall

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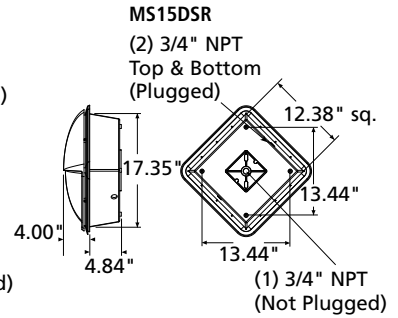
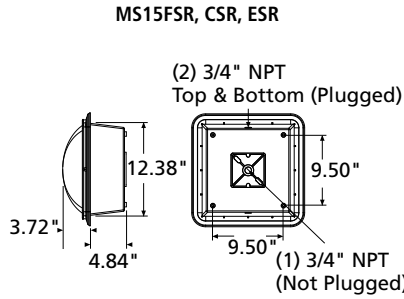
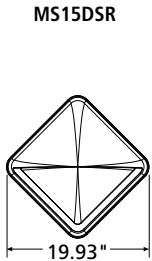
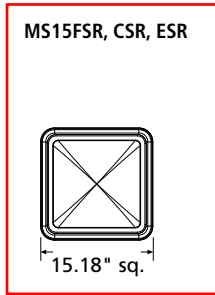
MS15_SR-021116

MILLENIUM™ SQUARE

MS15 SERIES – SEMI-RECESSED

DIMENSIONAL DATA

SERIES PP, ND, CO (SIDE & BACK VIEW)



SERIES NL, CC (SIDE & BACK VIEW)

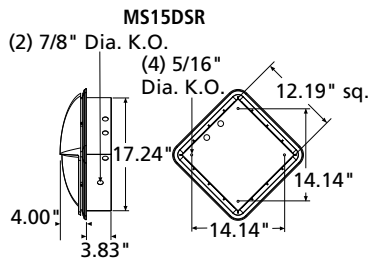
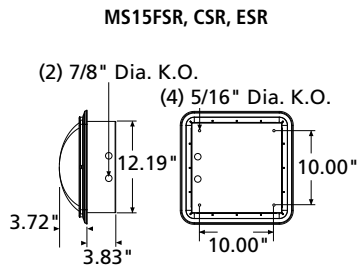


EXHIBIT 5: SITE PLAN (Supplemental)

	Cat.#		
	Job	Type	
Approvals			

SPECIFICATIONS

Intended Use:

The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- Two-piece silicone and microcellular polyurethane foam gasket ensures a weather-proof seal around each individual optic.

Electrical:

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (UNV), 347V, or 480V input.
- Power factor is $\geq .90$ at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Fixture electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20kA.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see www.beaconproducts.com/products/energeni).
- In addition, Viper can be specified with **SiteSync™** wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: www.hubbelling.com/sitesync

Installation:

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included.

Finish:

- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Certifications/Ratings:

- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>
- Certified to UL 1598, UL 8750, and CSA C22.2
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://www.beaconproducts.com/products/viper_large

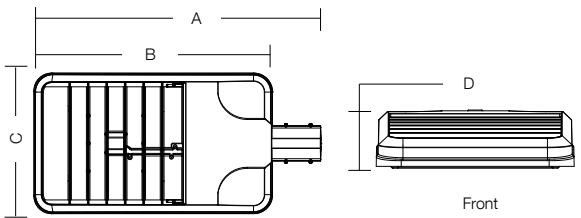
Warranty:

Five year limited warranty for more information visit: www.hubbelling.com/resources/warranty

PRODUCT IMAGE(S)

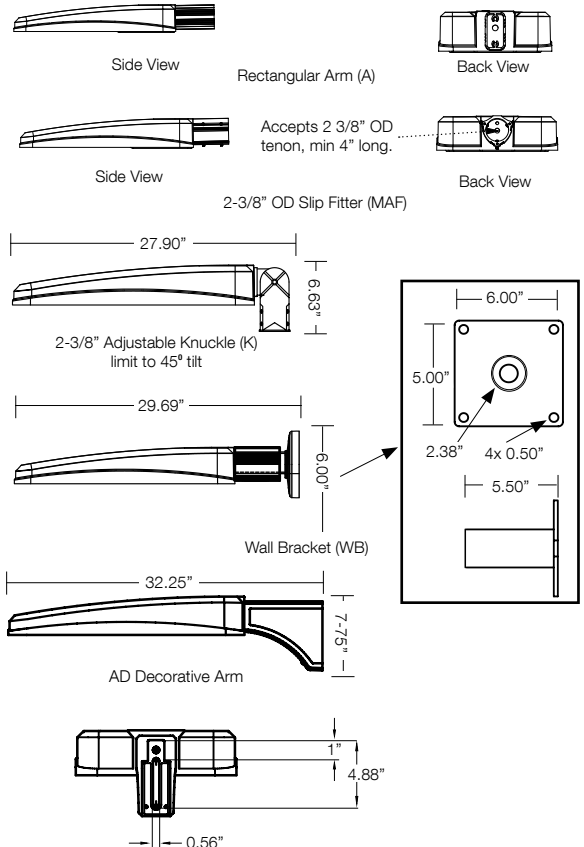


DIMENSIONS



A	B	C	D	Weight:	EPA
29.9"	24.19"	14.25"	4.13"	25.0 lbs	1.2 ft ²
(741 mm)	(614 mm)	(362 mm)	(105 mm)	(11.3 kg)	

MOUNTING OPTIONS



CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only

Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

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

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VPL								
SERIES	LED ENGINE	CCT/CRI ⁷	ROTATION	VOLTAGE	COLOR	OPTIONS		
VPL Viper	64L-135 135W LED array 80L-180 180W LED array 80L-235 235W LED array 96L-220 220W LED array 96L-280 280W LED array 96L-315 315W LED array 96L-395 395W LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	Leave blank for no rotation L⁵ Optic rotation left R⁵ Optic rotation right	UNV 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	DBT Dark Bronze Textured BMT Black Matte Textured PS Platinum Silver Smooth WHT White Textured CC Custom Color (RAL#)	F Fusing BSP Bird Spikes BC Backlight control (limited to Type 4W only)		
		DISTRIBUTION		MOUNTING				
		FR Type 1/Front Row 2 Type 2 3 Type 3 4 Type 4 4W Type 4 Wide 5QM Type 5QM 5QN Type 5QN 5R Type 5R (rectangular) 5W Type 5W (round wide)		A Rectangular Arm (formerly RA) for square or round pole MAF Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm K Knuckle (formerly PK2) limit to 45° tilt or 2-3/8" OD horizontal arm or vertical tenon WB Wall Bracket AD Universal Arm for square pole AD3 Universal Arm for 2.4"-4.1" round pole AD4 Universal Arm for 4.2"-5.3" round pole AD5 Universal Arm for 5.5"-5.9" round pole AD6 Universal Arm for 6.0"-6.5" round pole				

HOUSE SIDE SHIELD ACCESSORIES

- HSS/EVP-L/90-FB/XXX** 90° shield front or back
- HSS/EVP-L/90-LR/XXX** 90° shield left or right
- HSS/EVP-L/270-FB/XXX** 270° shield front or back
- HSS/EVP-L/270-LR/XXX** 270° shield left or right
- HSS/EVP-L/360/XXX** Full shield

(Replace XXX with notation for desired finish color)
(Refer to page 5 for shield images)

MOUNTING ACCESSORIES

- VPL-AD-RPA3** 2.4"-4.1" Round Pole Adapter for AD arm
- VPL-AD-RPA4** 4.2"-5.3" Round Pole Adapter for AD arm
- VPL-AD-RPA5** 5.5"-5.9" Round Pole Adapter for AD arm
- VPL-AD-RPA6** 6.0"-6.5" Round Pole Adapter for AD arm

PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.hubbell-automation.com/products/sitesync/ or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DBT/SWP/ SiteSync only
VP-L/80L-235/4K7/3/UNV/A/DBT/SWPM-40F/ SiteSync with Motion Control

¹ Not available with other wireless control or sensor options
² Specify mounting height; 8 = 8' or less, 40 = 9' to 40'
³ Specify routine setting code (example GENI-04). See EMERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options.
⁴ Specify group and zone at time of order. See www.hubbellighting.com/sitesync for further details. Order at least one SiteSync interface Accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node
⁵ Only available with 1A, 2, 3, 4, 4W and 5R distributions
⁶ Order at least one SCP-REMOTE per project location to program and control
⁷ This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://cdn.beaconproducts.com/content/products/specs/specs_files/Viper_Large_LED_turtle_spec_sheet.pdf

CONTROL OPTIONS

- 7PR** 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)
- 7PR-SC** 7-Pin Receptacle w/Shorting Cap
- 7PR-TL** 7-Pin Receptacle w/Twist Lock photo control
- SCP/_F^{1,2,6}** Programmable Occupancy Sensor w/ daylight control (120-277 volts only)
- WSP/_F^{1,2}** WASP Occupancy Sensor w/ daylight control (347 or 480 volts only)
- GENI-XX³** EMERGENI
- SWP^{1,4}** SiteSync Pre-Commission
- SWPM^{1,2,4}** SiteSync Pre-Commission w/ Sensor

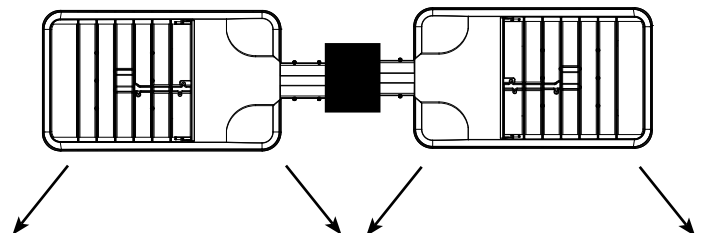
Accessories and Services (Ordered Separately)

Catalog Number	Description
SWUSB*	SiteSync loaded on USB flash drive (Windows based only)
SWTAB*	SiteSync Windows Tablet
SWBRG*	SiteSync Wireless Bridge Node
SCP-REMOTE	Remote Control for SCP/_F option. Order at least one per project to program and control

* When ordering with SiteSync, one of the interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.
 + If needed, an additional Bridge Node can be ordered.

LEFT ROTATED OPTIC

RIGHT ROTATED OPTIC



SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.



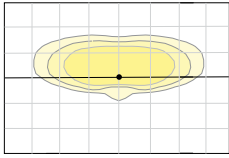
PERFORMANCE DATA				5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
64	625 mA	135W	FR	18220	132	2	0	2	18783	137	2	0	2	16341	119	2	0	2
			2	17228	125	2	0	2	17761	129	2	0	2	15452	112	2	0	2
			3	17257	125	2	0	3	17791	129	2	0	3	15478	112	2	0	3
			4	16864	123	1	0	4	17386	126	1	0	4	15125	110	1	0	3
			4W	16797	122	2	0	3	17317	126	2	0	3	15066	109	2	0	3
			5QM	17259	125	4	0	2	17792	129	4	0	2	15479	112	4	0	2
			5QN	18023	131	4	0	0	18580	135	4	0	0	16165	117	4	0	0
			5R	17410	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4
			5W	16498	120	4	0	2	17009	124	4	0	3	14797	108	4	0	2
			5W	23230	128	2	0	2	23948	132	2	0	2	20835	115	2	0	2
80	700 mA	180W	FR	21965	121	3	0	3	22645	125	3	0	3	19701	109	2	0	3
			2	22003	121	2	0	4	22683	125	3	0	4	19734	109	2	0	4
			3	21502	119	2	0	4	22167	122	2	0	4	19285	106	2	0	4
			4	21416	118	2	0	4	22079	122	2	0	4	19209	106	2	0	4
			4W	22005	121	4	0	2	22686	125	4	0	2	19736	109	4	0	2
			5QM	22979	127	4	0	1	23689	131	4	0	1	20610	114	4	0	0
			5QN	22197	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4
			5R	21035	116	5	0	3	21686	120	5	0	3	18867	104	4	0	3
			5W	27849	121	2	0	2	28711	125	2	0	2	24978	108	2	0	2
			5W	26334	114	3	0	3	27148	118	3	0	4	23619	102	3	0	3
80	875 mA	235W	2	26378	114	3	0	4	27194	118	3	0	4	23659	103	3	0	4
			3	25777	112	2	0	4	26575	115	2	0	5	23120	100	2	0	4
			4	25675	111	3	0	4	26469	115	3	0	4	23028	100	3	0	4
			4W	26381	114	4	0	2	27196	118	4	0	2	23661	103	4	0	2
			5QM	27548	119	5	0	1	28400	123	5	0	1	24708	107	5	0	1
			5QN	26611	115	5	0	5	27434	119	5	0	5	23868	104	4	0	4
			5R	25218	109	5	0	3	25998	113	5	0	3	22618	98	5	0	3
			5W	27876	128	2	0	2	28738	132	2	0	2	25002	115	2	0	2
			5W	26359	121	3	0	3	27174	125	3	0	4	23641	109	3	0	3
			5W	26403	121	3	0	4	27220	125	3	0	4	23681	109	3	0	4
96	700 mA	220W	2	25802	119	2	0	4	26600	122	2	0	5	23142	106	2	0	4
			3	25700	118	3	0	4	26494	122	3	0	4	23050	106	3	0	4
			4	26406	121	4	0	2	27222	125	4	0	2	23683	109	4	0	2
			4W	27575	127	5	0	1	28427	131	5	0	1	24732	114	5	0	1
			5QM	26637	122	5	0	5	27460	126	5	0	5	23890	110	4	0	4
			5QN	25242	116	5	0	3	26023	120	5	0	3	22640	104	5	0	3
			5R	33419	121	3	0	2	34453	125	3	0	2	29974	108	2	0	2
			5W	31600	114	3	0	4	32577	118	3	0	4	28342	102	3	0	4
			5W	31654	114	3	0	5	32633	118	3	0	5	28390	103	3	0	4
			5W	30933	112	2	0	5	31889	115	2	0	5	27744	100	2	0	5
96	875 mA	280W	4	30810	111	3	0	5	31763	115	3	0	5	27634	100	3	0	4
			4W	31657	114	5	0	3	32636	118	5	0	3	28393	103	4	0	2
			5QM	33058	119	5	0	1	34080	123	5	0	1	29650	101	5	0	1
			5QN	31933	115	5	0	5	32921	119	5	0	5	28641	104	5	0	5
			5R	30262	109	5	0	4	31198	113	5	0	4	27142	98	5	0	3
			5W	35666	113	3	0	2	36769	117	3	0	2	31989	101	2	0	2
			5W	33725	107	3	0	4	34768	110	3	0	4	30248	96	3	0	4
			5W	33782	107	3	0	5	34827	110	3	0	5	30299	96	3	0	4
			5W	33012	105	2	0	5	34033	108	2	0	5	29609	94	2	0	5
			5W	32882	104	3	0	5	33899	107	3	0	5	29492	93	3	0	5
96	1000mA	315W ²	5QM	33785	107	5	0	3	34830	110	5	0	3	30302	96	5	0	2
			5QN	35280	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1
			5R	34080	108	5	0	5	35134	111	5	0	5	30567	97	5	0	5
			5W	32302	102	5	0	4	33301	106	5	0	4	28972	92	5	0	4
			FR	39569	101	3	0	4	43125	110	3	0	3	37518	96	3	0	2
			2	39569	101	3	0	4	40793	104	3	0	4	35490	91	3	0	4
			3	39619	101	3	0	5	40845	104	3	0	5	35535	91	3	0	5
			4	38723	98	3	0	5	39921	101	3	0	5	34731	88	2	0	5
			4W	38570	98	3	0	5	39763	101	3	0	5	34594	88	3	0	5
			5QM	39623	101	5	0	3	40848	104	5	0	3	35538	90	5	0	3
96	1225mA	395W ²	5QN	41394	105	5	0	1	42675	109	5	0	1	37127	95	5	0	1
			5R	39969	102	5	0	5	41205	105	5	0	5	35848	91	5	0	5
			5W	37877	97	5	0	4	39048	100	5	0	4	33986	87	5	0	4

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.
² 315W and 395W 3000K versions are not DLC QPL listed. Reference highlighted cells in table.

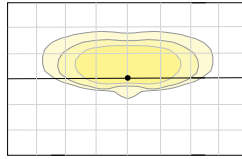


PHOTOMETRICS

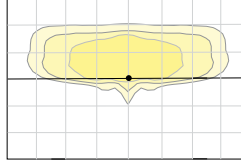
Type FR - Front Row/Auto Optic



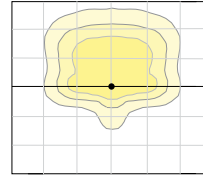
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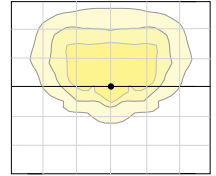
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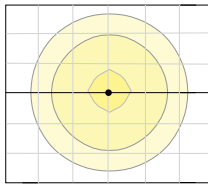
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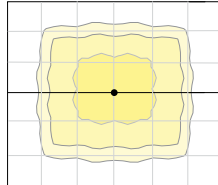
Type 4W



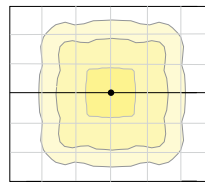
Type 5W



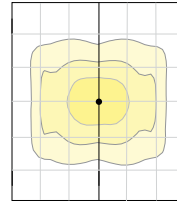
Type 5QN



Type 5QM



Type 5R



ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			277		0.6
			347		0.5
			480		0.3
80	2	700 mA	120	180	1.8
			277		0.8
			347		0.6
			480		0.5
80	2	875 mA	120	235	2.4
			277		1.0
			347		0.8
			480		0.6
96	2	700 mA	120	220	2.2
			277		1.0
			347		0.8
			480		0.6
96	2	875 mA	120	280	2.8
			277		1.2
			347		1.0
			480		0.7
96	2	1000 mA	120	315	3.2
			277		1.4
			347		1.1
			480		0.8
96	2	1225 mA	120	395	4.0
			277		1.7
			347		1.4
			480		1.0

PROJECTED LUMEN MAINTENANCE

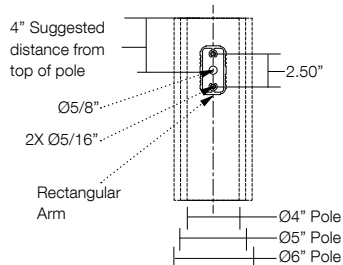
AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

¹ Projected per IESNA TM-21-11

Data references the extrapolated performance projections for the 700mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

DRILL PATTERN

Compatible with Pole drill pattern B3



EPA

Config.	EPA	Config.	EPA
1	1.2	3 @ 120°	3.0
2 @ 90°	1.9	3 @ 90°	3.1
2 @ 180°	2.4	4 @ 90°	3.8

TENON TOP POLE BRACKET ACCESSORIES (Order Separately)

(2 3/8" OD tenon)

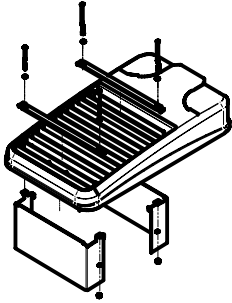
Catalog Number	Description
SETA2-XX ^{1,2}	Square tenon adapter (4 at 90 degrees)
RETA2-XX ^{1,3}	Round tenon adapter (4 at 90 degrees)
TETA2-XX ^{1,2}	Hexagonal tenon adapter (3 at 120 degrees)

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

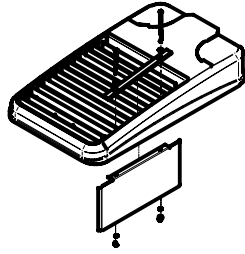
² Only for use with AD mounting option

³ Only for use with AD3 mounting option

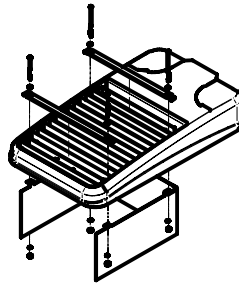
HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



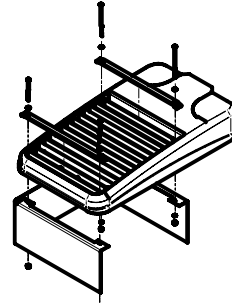
HSS/EVP-L/90-FB/XXX
90° shield front or back
(2 shields shown)



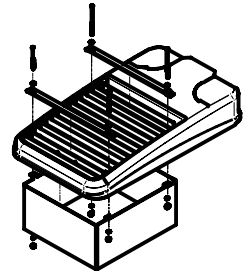
HSS/EVP-L/90-LR/XXX
90° shield left or right
(1 shield shown in left orientation)



HSS/EVP-L/270-FB/XXX
270° shield front or back
(1 shield shown in back orientation)



HSS/EVP-L/270-LR/XXX
270° shield left or right
(1 shield shown in right orientation)



HSS/EVP-L/360/XXX
Full shield
(1 shield shown)

AD ARM MOUNTING INSTRUCTIONS

