

Final Plans

No Documents in this Category

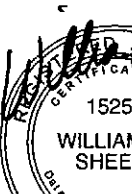
[illegible]

orcutt | winslow

3003 n central ave
sixteenth floor
phoenix az 85012
mail@owp.com

602.257.1764 t
602.257.9029 f

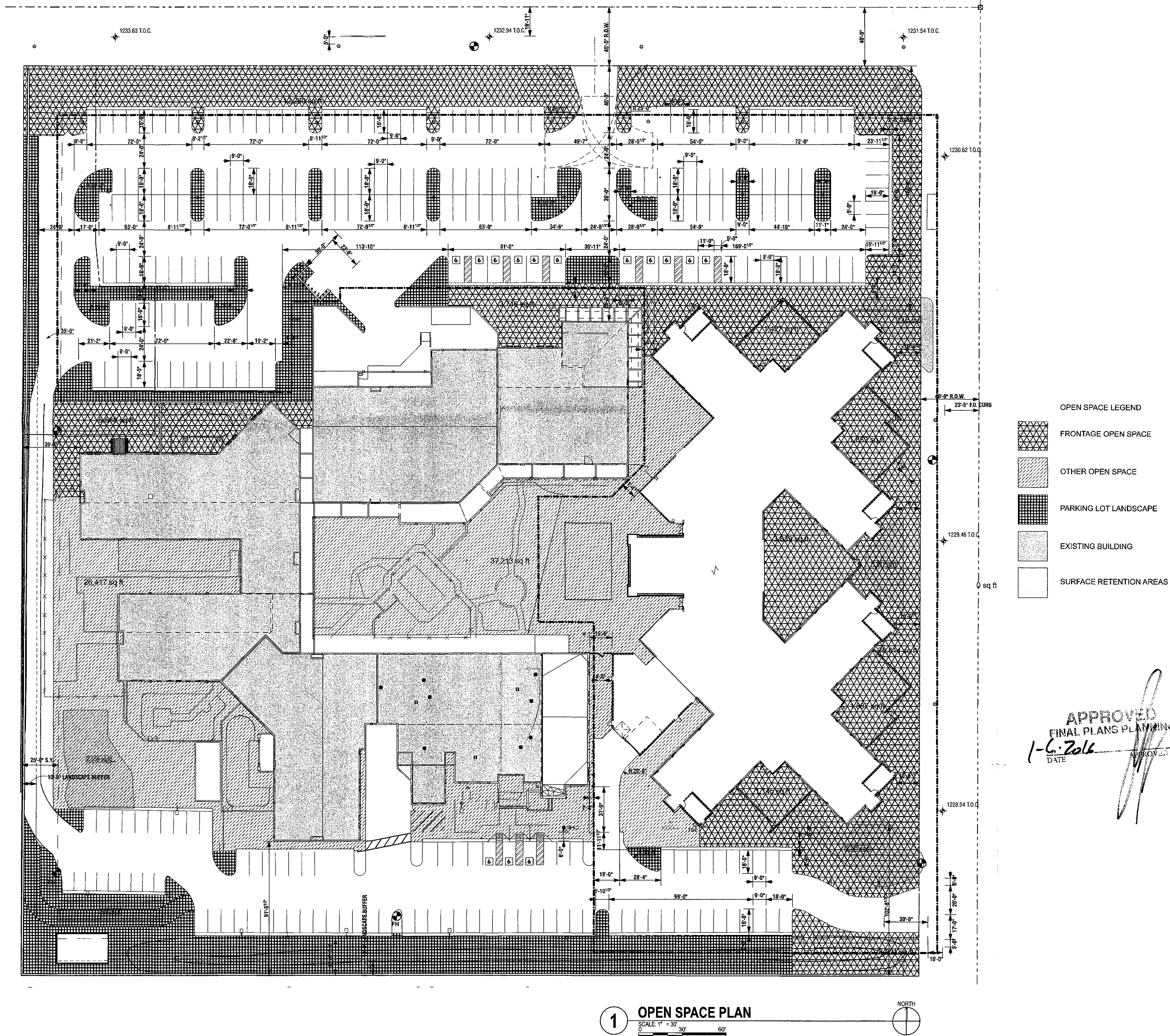
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expires 06/30/16

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This contract follows the practice to make payment between DRI (DRI) design professionals and approved of fellows and members.



BANNER HEALTH
Banner Behavioral Health Hospital
Inpatient Building
7575 EAST EARLL DRIVE, SCOTTSDALE, ARIZONA 86251

CLIENT CONTACT

Bill Smith 480.226.9947 t
2145 W. Southern Ave. 480.412.4219 f
Mesa, Arizona 85202 bill.smith@bannerhealth.com

<u>PROJECT NO.</u>	<u>DATE OF ISSUE</u>
2015_043	11.09.2015

REVISION NO.	DATE
1 design team coordination	12.18.2015
2 GC RFIs	12.18.2015
3 owner comments	12.18.2015
4 city comments	12.18.2015
5 ADHS comments	12.18.2015

PROJECT TEAM	DRAWN BY
mulhall	team

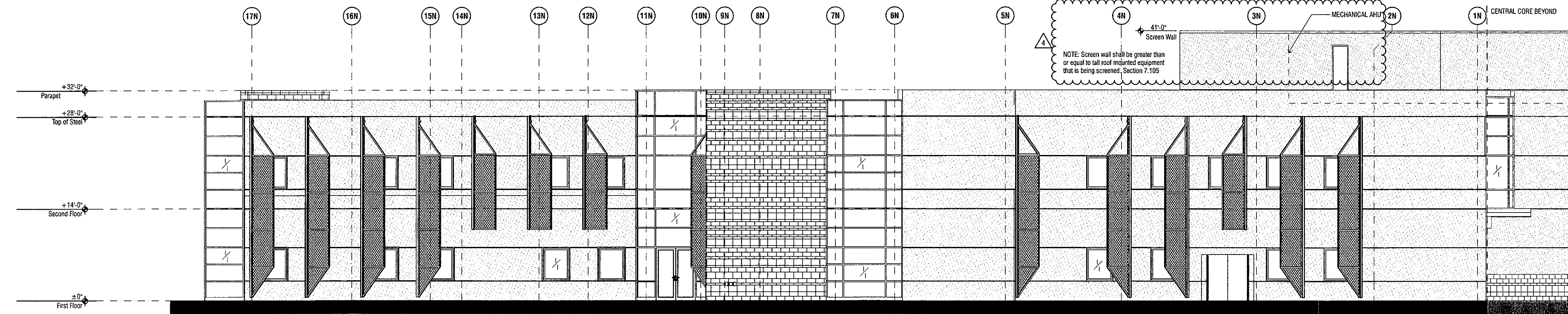
PROJECT PHASE
construction documents

open space plan

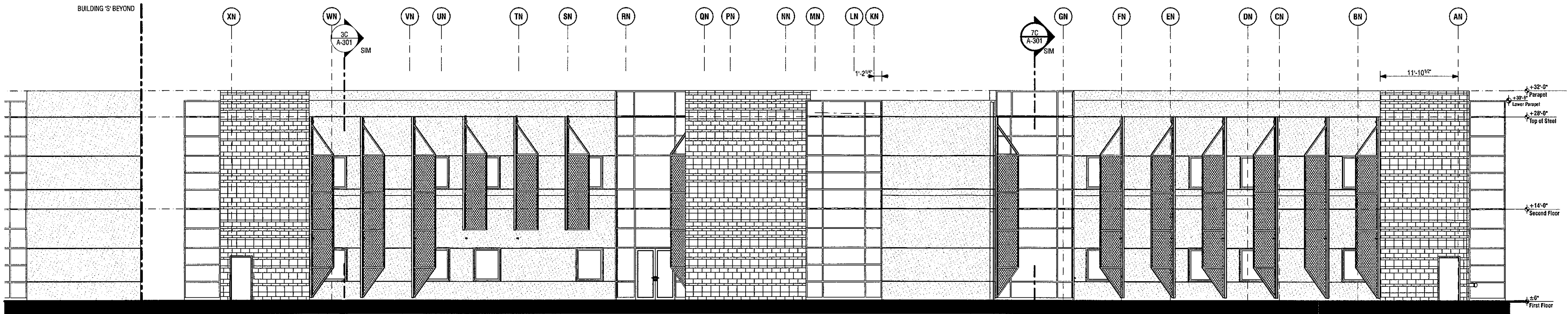
SHEET NO. _____

AS-201

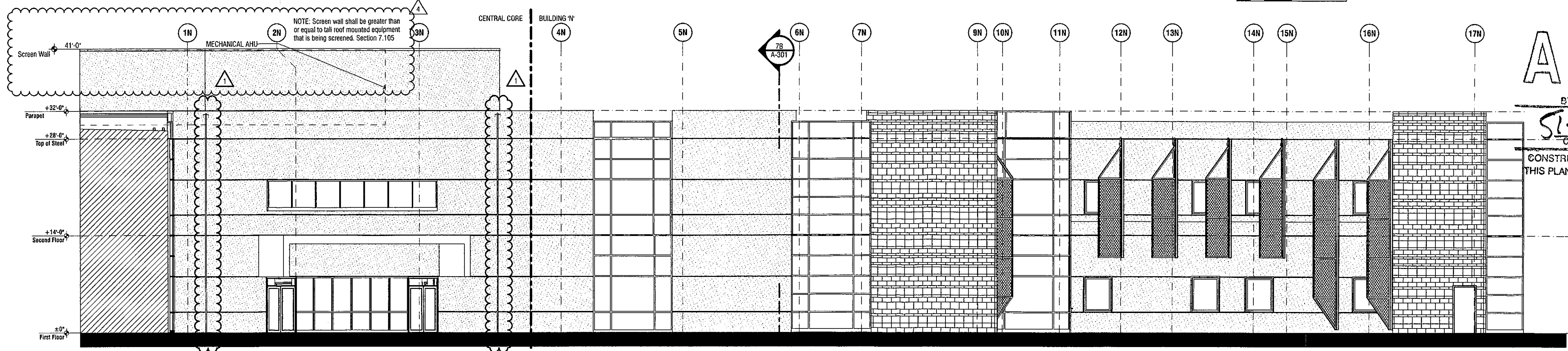
Grant Winslow Project 2015_043 Banner Behavioral Health Hospital Inpatient Building, 200 Elevations Sheet A-201 Building elevations was plotted by Alex Buttimer on Tuesday, January 5, 2016 at 8:51 AM. File saved at BIM Server: Bimserver3.owp.com - BIM Server 10/Health Care Studio/EG_043 BPHH Inpatient Building



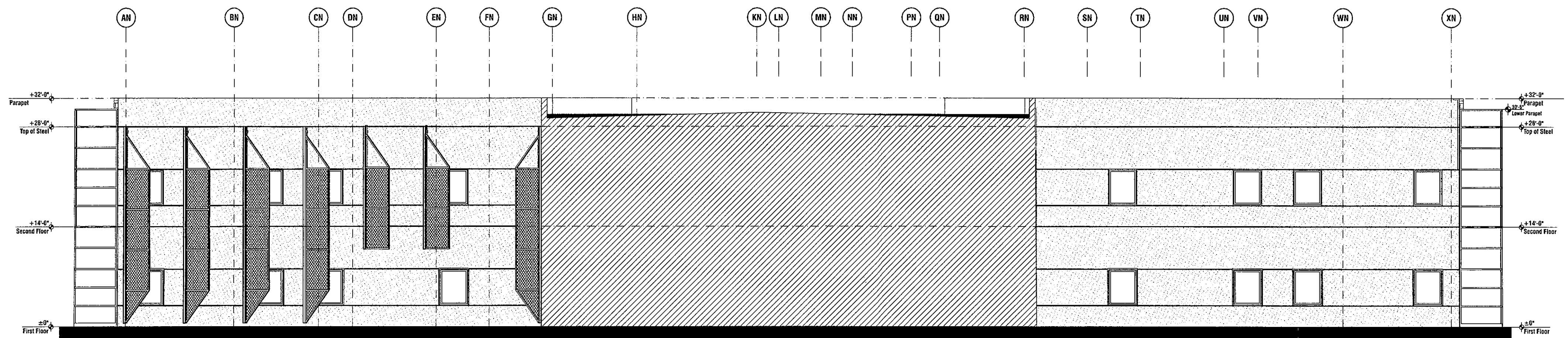
7B BLDG N NORTHWEST ELEVATION
SCALE: 1/8" = 1'-0"
0 4 8 16'



7C BLDG N NORTHEAST ELEVATION
SCALE: 1/8" = 1'-0"
0 4 8 16'



7D BLDG N SOUTHEAST ELEVATION
SCALE: 1/8" = 1'-0"
0 4 8 16'



7E BLDG N SOUTHWEST ELEVATION
SCALE: 1/8" = 1'-0"
0 4 8 16'

ELEVATION GENERAL NOTES:

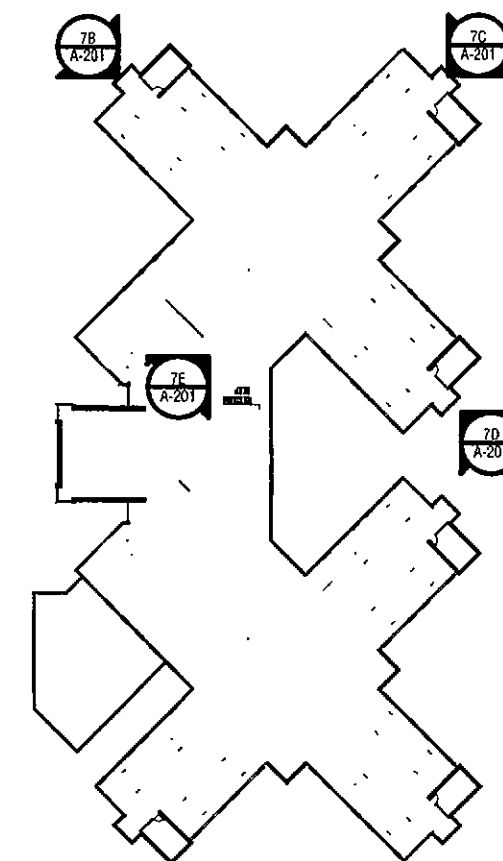
- All exposed steel walls shall be of masonry type indicated for walls above floor line.
- Sidewalks at building and structures shall match finish floor flush at doorways and slope away from building.
- Paint all exposed metal that is not specified to receive factory finish.
- All exposed flashing shall be factory finished.
- See Plans and Schedule for door and window types and sizes.

ELEVATION KEYNOTES:

ELEVATION LEGEND

- Banner Block - Refer to Elevation 1/A-204
- EIFS SW Beige
- Curtain Wall Mullions - Clear Anodized with Transparent Glazing
- Curtain Wall Mullions- Clear Anodized, show spandrel panels, typ.
- Shading Panels- Zinc finish
- Shading Panels- Zinc finish, to come via deferred submittal

ARCHITECTURAL ELEVATIONS
APPROVED
BY THE CITY OF SCOTTSDALE PLANNING DEPARTMENT
CASE NUMBER *SI-DR-2015-11* DATE *1-6-2016*
CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND ANY AND ALL DEVIATIONS WILL REQUIRE REAPPROVAL



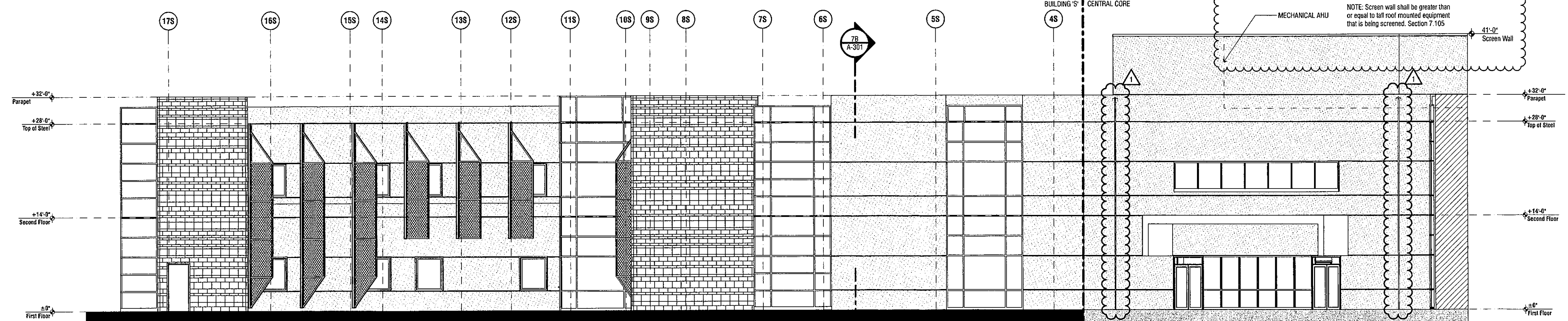
ELEVATION KEY PLAN

Banner Health Banner Behavioral Health Hospital Inpatient Building

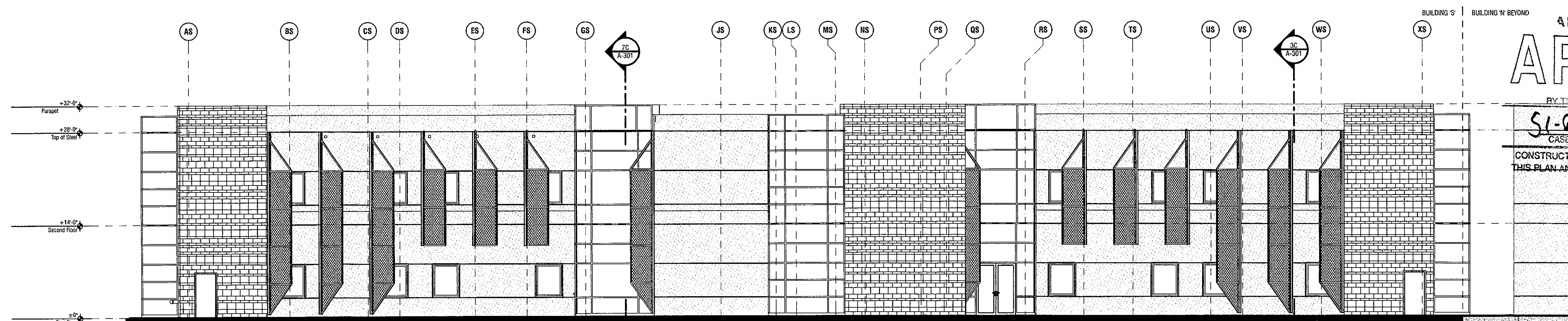
7575 EAST EARL DRIVE, SCOTTSDALE, ARIZONA 85251

CLIENT CONTACT	
Bill Smith 2145 W. Southern Ave. Mesa, Arizona 85202	480.226.9947 t 480.412.4219 f bill.smith@bannerhealth.com
PROJECT NO. 2015_043	DATE OF ISSUE 11.09.2015
REVISION NO.	DATE
△ design team coordination	12.18.2015
△ GC RFI's	12.18.2015
△ owner comments	12.18.2015
△ city comments	12.18.2015
△ ADHS comments	12.18.2015
PROJECT TEAM multihall	DRAWN BY team
PROJECT PHASE construction documents	
SHEET CONTENTS building elevations	
SHEET NO. A-201	

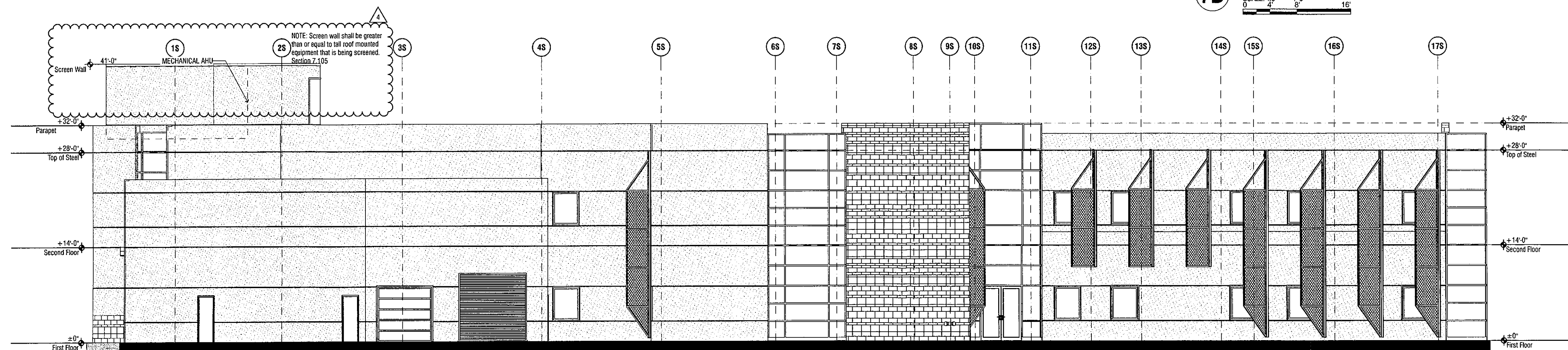
SCALE: $\frac{1}{8}" = 1'-0"$



SCALE: $1/8" = 1'-0"$
0 4' 8' 16'



SCALE: $\frac{1}{8}" = 1'-0"$
0 4' 8' 16'



SCALE: $\frac{1}{8}" = 1'-0"$

	Banner Block - Refer to Elevation 1/A-204
	EIFS SW Beige
	Curtain Wall Mullions - Clear Anodized with Transparent Glazing
	Curtain Wall Mullions - Clear Anodized, show spandrel panels, typ.
	Shading Panels- Zinc finish
	Shading Panels- Zinc finish, to come via deferred submittal

BY THE CITY OF SEATTLE PLANNING DEPARTMENT

51-222015⁴² 1-6-2016

CASE NUMBER DATE

CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH
THIS PLAN AND ANY AND ALL DEVIATIONS WILL REQUIRE REAPPROVAL

BANNER HEALTH
Banner Behavioral Health Hospital
Inpatient Building
7575 EAST EARLL DRIVE, SCOTTSDALE, ARIZONA 85251

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PROJECT TEAM **mulhall** DRAWN BY **team**

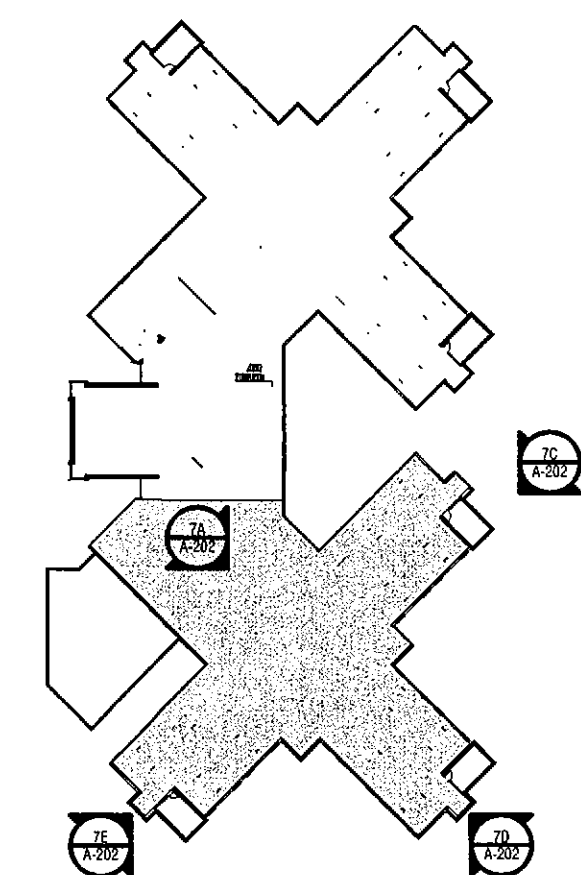
PROJECT PHASE
construction documents

SHEET CONTENTS

building elevations

SHEET NO.

A-202

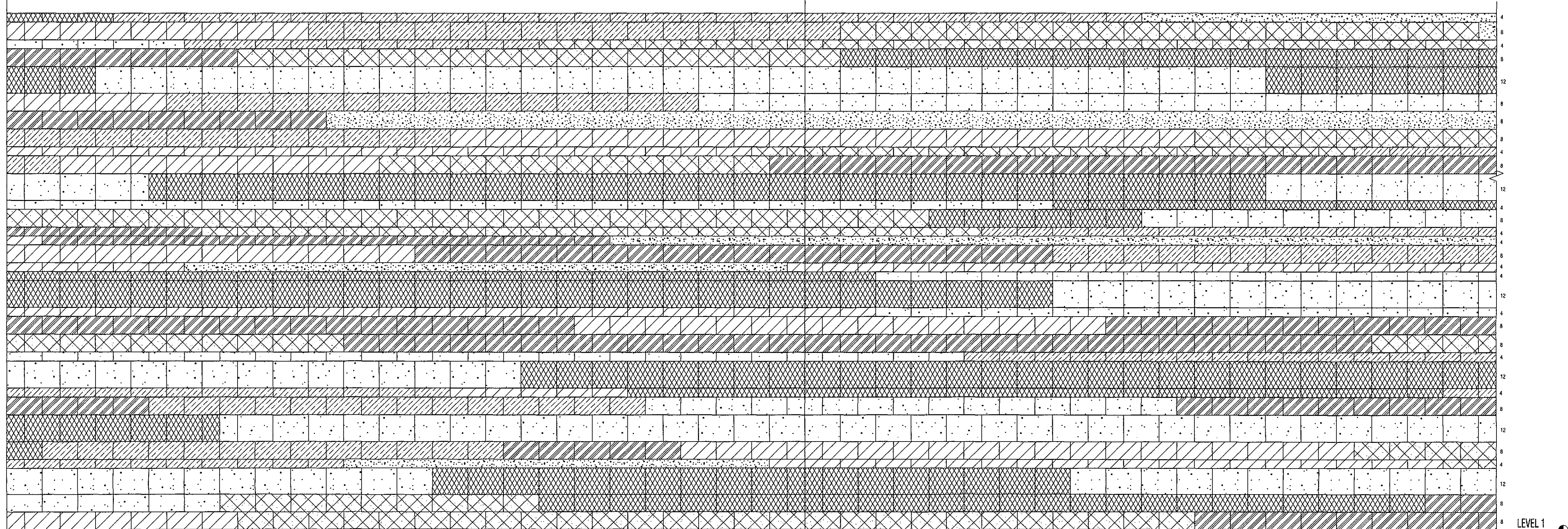


ELEVATION KEY PLAN

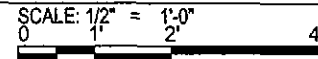
A-203

WORKPOINT - A

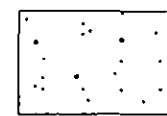
WORKPOINT - A



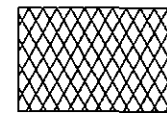
1 BANNER BLOCK BOND PATTERN



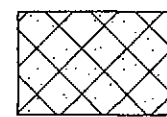
PEARL WHITE: GROUND FACE



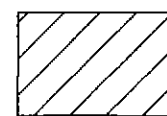
PEARL WHITE: SAND BLASTED



MALIBU: SAND BLASTED



MALIBU: GROUND FACE



MISSION WHITE: GROUND FACE



MISSION WHITE: SAND BLASTED



WALNUT CREEK: GROUND FACE

NOTE: ALL COLORS BY TRENWYTH. REFER
TO ALL SECTIONS & DETAILS FOR BLOCK
THICKNESS

ELEVATION GENERAL NOTES:

- A. All exposed stem walls shall be of masonry type indicated for walls above floor line.
- B. Sidewalks at building and structures shall match finish floor flush at doorways and slope away from building.
- C. Paint all exposed metal that is not specified to receive factory finish.
- D. All exposed flashing shall be factory finished.
- E. See Plans and Schedule for door and window types and sizes.

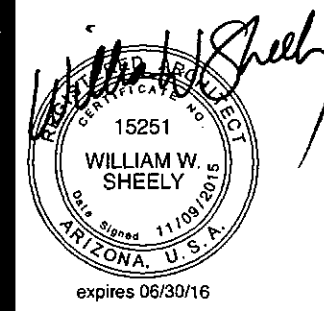
ELEVATION KEYNOTES:

1. Keynotes will automatically wrap to the next line and tab accordingly.
2. There is no need to return at the end of a line and manually tab text to align.
3. Provide a blank line in between each note paragraph
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

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BANNER HEALTH
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Inpatient Building
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BANNER HEALTH

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Banner Behavioral Health Hospital

Inpatient Building

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CLIENT CONTACT

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Mesa, Arizona 85202 bill.smith@barnernutrition.com

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1 design team coordination	12.18.2015
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PROJECT TEAM DRAWN BY
mulhall team

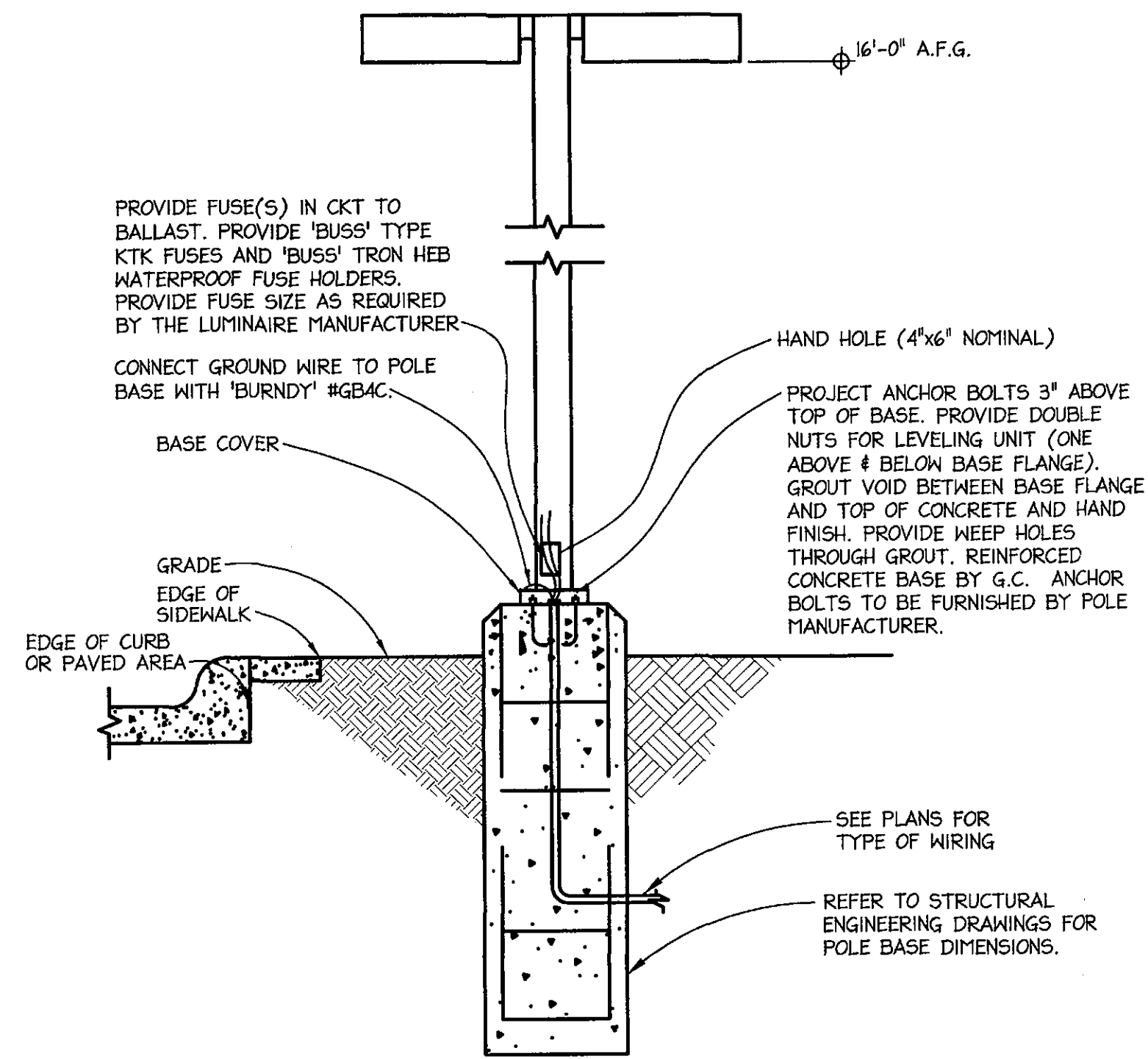
PROJECT PHASE
construction documents

**building elevations- banner
cmu pattern**

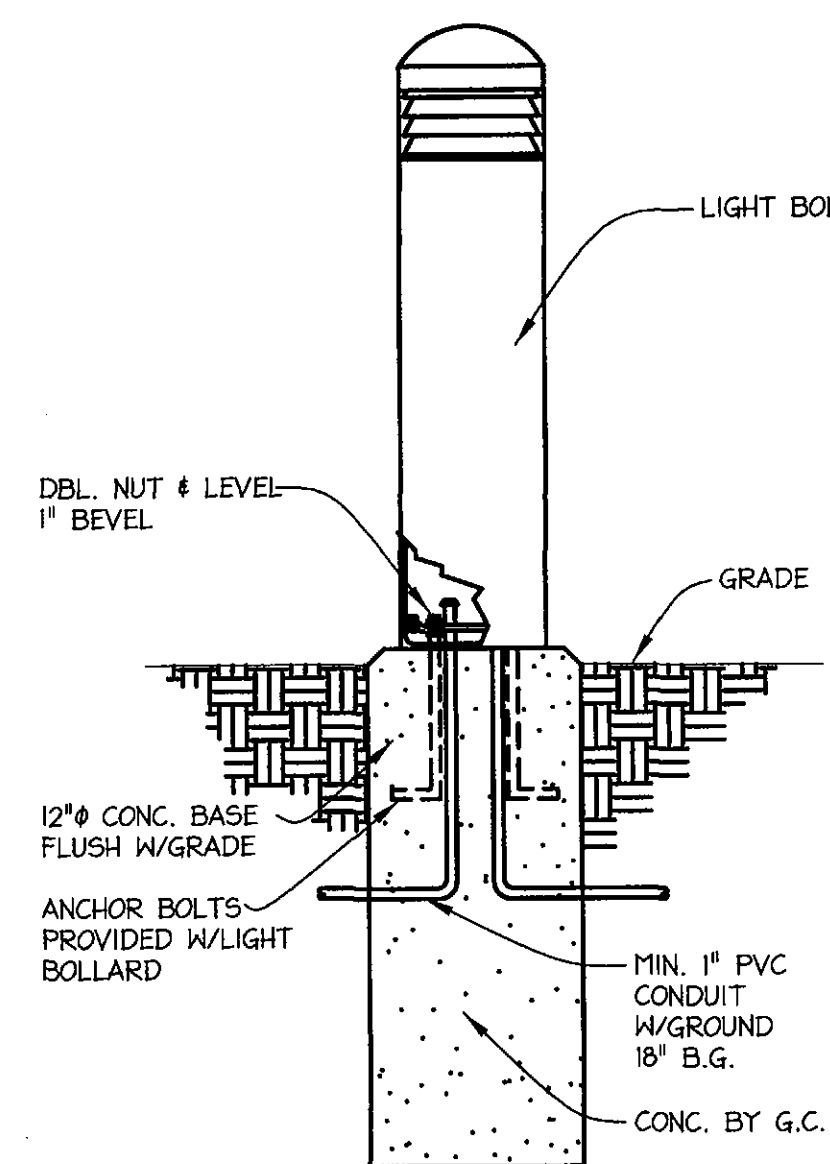
SHEET NO.

A-204

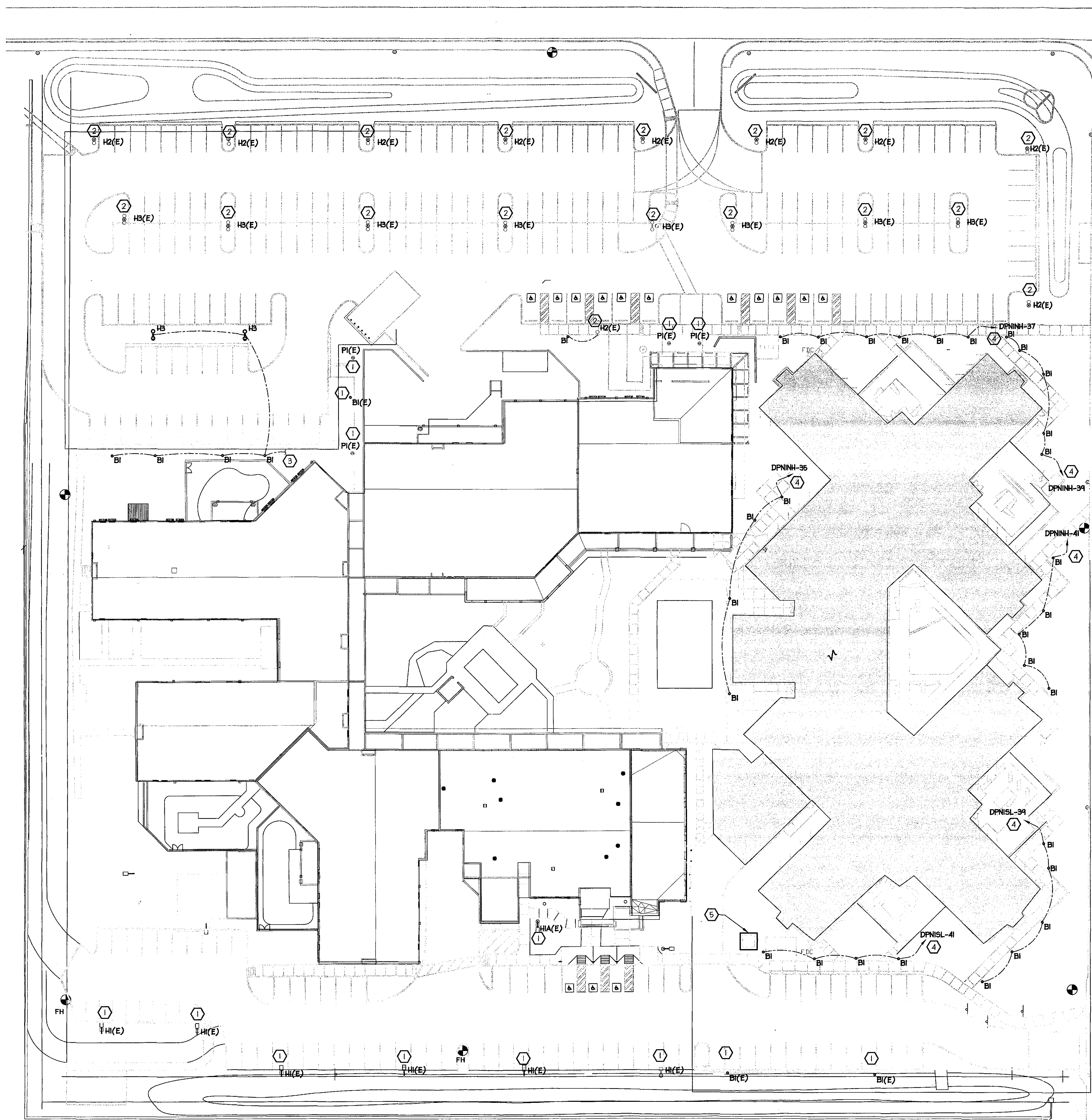
APPROVED
FINAL PLANS PLANNING
1-6-2016
DATE



POLE BASE DETAIL
NOT TO SCALE



LIGHT BOLLARD BASE DETAIL
NOT TO SCALE



NORTH
SITE LIGHTING PLAN
SCALE: 1" = 30'-0"

- LIGHTING NOTES:**
- GENERAL NOTES:**
1. REFER TO LIGHT FIXTURE SCHEDULE ON DRAWING E411 FOR LIGHT FIXTURE DESCRIPTIONS.
- KEYED NOTES:**
- 1 EXISTING LIGHT FIXTURE TO REMAIN.
 - 2 RELOCATED EXISTING LIGHT FIXTURE. MAINTAIN EXISTING CIRCUITING AND CONTROL.
 - 3 CONNECT NEW LIGHT FIXTURE TO EXISTING SITE LIGHTING CIRCUIT SERVING AREA. LOAD ADDED = 250VA.
 - 4 PROVIDE 6 POLE LIGHTING CONTACTOR IN ELECTRICAL ROOM TO CONTROL SITE LIGHTING FIXTURES. PROVIDE CONTACTOR WITH ASTRONOMICAL TIME CLOCK AND PHOTOCELL INPUT. MOUNT PHOTOCELL ON ROOF PER MANUFACTURERS INSTRUCTIONS.
 - 5 UTILITY SERVICE TRANSFORMER CONCRETE PAD. PROVIDE PER AFS REQUIREMENTS.

orcutt winslow

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Richard M. Seger
Professional Engineer
No. 37389
Expire 03-31-2017

D/H/E
ENGINEERING
3300 N. Central Ave. STE 1520
Phoenix, AZ 85012
TL 602.606.7432

Banner Health
Banner Behavioral Health Hospital
Inpatient Building
7575 East Earll Drive, Scottsdale, Arizona 85251

CLIENT CONTACT
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Mesa, Arizona 85202 bill.smith@bannerhealth.com

PROJECT NO.	DATE OF ISSUE
2015_043	11.09.2015
REVISION NO.	DATE
1 DESIGN TEAM	2015-12-17
2 COORDINATION	2015-12-17
3 GC RFI	2015-12-17
4 OWNER COMMENTS	2015-12-17
5 CITY COMMENTS	2015-12-17
6 ADHS COMMENTS	2015-12-17

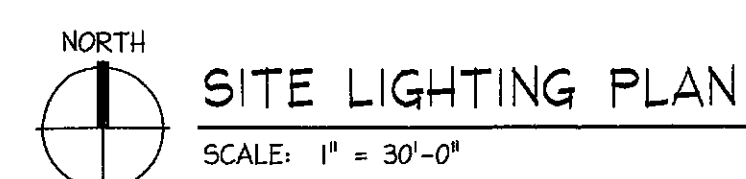
PROJECT TEAM
mulhall team

PROJECT PHASE
construction documents

SHEET CONTENTS
SITE LIGHTING PLAN

SHEET NO.
E011

APPROVES
FINAL PLANS PLANNING
163016
DATE



5 UTILITY SERVICE TRANSFORMER CONCRETE PAD.
PROVIDE PER APS REQUIREMENTS.

Professional Engineer
 License No. 37389
 RICHARD M.
 SEGER
 12.17.15
 State of
 ARIZONA, USA
 Expires 03-31-2017

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Banner Behavioral Health Hospital
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PROJECT NO.	DATE OF ISSUE
15 043	11.09.2015

SIGN NO.	DATE
IGN TEAM	2015-12-17
RDINATION	
RFIs	2015-12-17
IER COMMENTS	2015-12-17
COMMENTS	2015-12-17
S COMMENTS	2015-12-17

PROJECT TEAM _____ DRAWN BY _____
hall _____ team _____

construction documents

TABLE OF CONTENTS

ET NO.

011

APPROVED
FINAL PLANS PLANNING
6-30-16
DATE

LUMINAIRE SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP DATA			INPUT WATTS	VOLTS	NOTES
				TYPE	QTY	WATTS			
A4	2'X4' RECESSED DIRECT/INDIRECT LED TROFFER	CREE	AR24-32L-40K-10V	LED, 4000K	N/A	40	40	120/277	1,2,3
B4	2'X4' RECESSED LENSED LED TROFFER	LITHONIA	2TL4-30L-FW-A12-EZ1-LP840	LED, 4000K	N/A	25	25	120/277	1
F1	2' ROUND SUSPENDED HIGH BAY LED FIXTURE	LITHONIA	JBL-12000LM-GL-WD-MVOLT-GZ10-4000K-80CRI	LED, 4000K	N/A	120	120	120/277	1
F2	2'X2' TAMPER RESISTANT DIRECT/INDIRECT TROFFER	KENALL	M1AC22-G/F-0-7-45L40K-DCC-1-DV	LED, 4000K	N/A	45	45	120/277	1
F4	2'X4' TAMPER RESISTANT DIRECT/INDIRECT TROFFER	KENALL	M1AC24-G/F-0-7-45L40K-DCC-1-DV	LED, 4000K	N/A	45	45	120/277	1
G4	6" RECESSED LED DOWNLIGHT	GOTHAM	EVO-40-10-6AR-MVOLT	LED, 4000K	N/A	18	18	120/277	1,2
H4	2'X4' TAMPER RESISTANT LENSED TROFFER	KENALL	HASEDI-24-45L40K-DCC-DV-2F-2H-6	LED, 4000K	N/A	45	45	120/277	1
L4	4' LED STRIPLIGHT	COLUMBIA	LPT-4-4000K-MLE-E-U	LED, 4000K	N/A	53	53	120/277	1,2
L4C	4' VANDAL RESISTANT LED FIXTURE	KENALL	RMCA-4-FL/TR-0-45L40K-DCC-DV-1-I	LED, 4000K	N/A	45	45	120/277	1,2
L4W	4' WALL MOUNT LED	KENALL	WCBU-4-0-1/1-45L40K-DCC-DV-1	LED, 4000K	N/A	45	45	120/277	1,2
N6	6" LED DOWNLIGHT	GOTHAM	ICO-40/20-6AR-20D-277	LED, 4000K	N/A	28	28	277	1,2
NL	PATIENT ROOM NIGHT LIGHT	MP LIGHTING	L47-6-K275-A	LED, 2700K	N/A	6	6	120/277	8
P1	ELEVATOR PIT LIGHT	LITHONIA	TPH-LED-16C-1000-40K-T5H-1-20V	LED, 4000K	N/A	31	31	120	1,2
P2	TAMPER RESISTANT 6" RECESSED LED DOWNLIGHT	KENALL	HADI4VL2-3L40K-DV-DCFK-T	LED, 4000K	N/A	13	13	120/277	1
W1	EXTERIOR WALL MOUNTED FIXTURE	SPAULDING	TRP-30L4K-53-4-U	LED, 4000K	N/A	53	53	277	1,7,8
B1	EXTERIOR VANDAL RESISTANT BOLLARD	KIM	VRBI-20L-4K-UV	LED, 4000K	N/A	25	25	277	1,8
H3	EXTERIOR POLE MOUNTED PARKING FIXTURE	LITHONIA	MRI LED 42C 530 40K SR2 MVOLT	LED, 4000K	N/A	98	98	277	9
⊗	LED EXIT SIGN	LITHONIA	EDGR-W-(1/2)-R	LED	N/A	4.5	4.5	277	1

- NOTES:
- LUMINAIRES IN EQUAL FORM AND FUNCTION ARE ACCEPTABLE.
 - PROVIDE 120V-0-10V DIMMING DRIVER.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - FEATURE WITH PHOTOCELL OPTION.
 - COLOR AS SELECTED BY ARCHITECT.
 - HATCH EXISTING FIXTURE.

COMcheck Software Version 4.0.1
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: Banner Behavioral Health Inpatient Bldg.
Project Type: New Construction

Construction Site: 7575 E. Earl Drive, Scottsdale, AZ 85251
Owner/Agent: Bill Smith, Banner Health, 2145 W. Southern Ave., Mesa, AZ 85202, 480-226-9947, bill.smith@bannerhealth.com
Designer/Contractor: Richard Seger, DHE Engineering, 3300 N. Central Ave., Ste 1520, Phoenix, AZ 85012, 602-606-7432, rsieger@dheeng.com

Additional Efficiency Package
Unspecified

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft²)	C Allowed Watts / ft²	D Allowed Watts (B X C)
1-Hospital	79000	1.19	94800
Total Allowed Watts = 94800			

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 1: B4: 2'x4' Recessed Lensed: LED Other Fixture Unit 25W:	1	34	25	850
LED 2: F1: 2' Round High Bay: LED Other Fixture Unit 125W:	1	12	120	1440
LED 3: F2: 2'x2' Direct/Indirect: LED Other Fixture Unit 46W:	1	90	45	4050
LED 4: F4: 2'x4' Direct/Indirect: LED Other Fixture Unit 46W:	1	208	45	9360
LED 5: G4: 6" Down Downlight: LED Other Fixture Unit 16W:	1	20	18	360
LED 6: L4: 4' Strip Light: LED Other Fixture Unit 50W:	1	12	53	636
LED 7: P1: Elevator Pit Light: LED Other Fixture Unit 40W:	1	2	39	78
LED 8: P2: 6" Downlight: LED Other Fixture Unit 13W:	1	749	13	9737
LED 9: A4: 2'x4' Direct/Indirect: LED Other Fixture Unit 40W:	1	24	40	960
LED 10: H4: 2'x4' Lensed: LED Other Fixture Unit 46W:	1	24	45	1080
LED 11: N6: 6" Downlight: LED Other Fixture Unit 28W:	1	28	28	772
Total Proposed Watts =				29153

Interior Lighting PASSES: Design 69% better than code

Interior Lighting Compliance Statement
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

Project Title: Banner Behavioral Health Inpatient Bldg. Report date: 11/04/15
Data filename: N:\2015\00244.00 - BBHH Patient Tower\02_Documents\MEPELEC\Other\BBHH Comcheck.cck Page 1 of 8

In the Inspection Checklist:
Richard M. Seger, P.E.
Name - Title Signature Date 11.09.2015

Project Information

Energy Code: 2012 IECC
Project Title: Banner Behavioral Health Inpatient Bldg.
Project Type: New Construction
Exterior Lighting Zone: 2 (Neighborhood business district)

Construction Site: 7575 E. Earl Drive, Scottsdale, AZ 85251
Owner/Agent: Bill Smith, Banner Health, 2145 W. Southern Ave., Mesa, AZ 85202, 480-226-9947, bill.smith@bannerhealth.com
Designer/Contractor: Richard Seger, DHE Engineering, 3300 N. Central Ave., Ste 1520, Phoenix, AZ 85012, 602-606-7432, rsieger@dheeng.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Walkway >= 10 feet wide	45797 ft²	0.14	Yes	6412
Total Tradable Watts (a) =				6412
Total Allowed Watts =				6412
Total Allowed Supplemental Watts (b) =				600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Walkway >= 10 feet wide (45797 ft²): Tradable Wattage				
LED 1: B1: LED Other Fixture Unit 25W:	1	28	25	700
LED 2: W1: LED Other Fixture Unit 50W:	1	13	53	689
Total Tradable Proposed Watts =				1389

Exterior Lighting PASSES: Design 84% better than code

Exterior Lighting Compliance Statement
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

Richard M. Seger, P.E.
Name - Title Signature Date 11.09.2015

Project Title: Banner Behavioral Health Inpatient Bldg. Report date: 11/04/15
Data filename: N:\2015\00244.00 - BBHH Patient Tower\02_Documents\MEPELEC\Other\BBHH Comcheck.cck Page 3 of 8

LUMINAIRE SCHEDULE							
TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP DATA		INPUT WATTS	VOLTS
				TYPE	QTY		
A4	2'X4' RECESSED DIRECT/INDIRECT LED TROFFER	CREE	AR24-32L-40K-10V	LED, 4000K	N/A	40	120/277
B4	2'X4' RECESSED LENSED LED TROFFER	LITHONIA	2TL4-30L-FH-A12-EZ1-LP840	LED, 4000K	N/A	25	120/277
F1	2' ROUND SUSPENDED HIGH BAY LED FIXTURE	LITHONIA	JBL-12000LM-GL-WD-MVOLT-GZ10-4000K-80CRI	LED, 4000K	N/A	120	120/277
P2	2'X2' TAMPER RESISTANT DIRECT/INDIRECT TROFFER	KENALL	MMAC22-G/F-0-7-45L40K-DCC-1-DV	LED, 4000K	N/A	45	120/277
F4	2'X4' TAMPER RESISTANT DIRECT/INDIRECT TROFFER	KENALL	MMAC24-G/F-0-7-45L40K-DCC-1-DV	LED, 4000K	N/A	45	120/277
G4	6" RECESSED LED DOWNLIGHT	GOTHAM	EVO-40-10-6AR-MVOLT	LED, 4000K	N/A	18	120/277
H4	2'X4' TAMPER RESISTANT LENSED TROFFER	KENALL	HASEDI-24-44L40K-DCC-DV-2F-2H-6	LED, 4000K	N/A	45	120/277
L4	4' LED STRIPLIGHT	COLUMBIA	LPY-4-4000K-FIL-E-U	LED, 4000K	N/A	53	120/277
L4C	4' VANDAL RESISTANT LED FIXTURE	KENALL	RMCA-4-FL/TR-0-45L40K-DCC-DV-1-1	LED, 4000K	N/A	45	120/277
L4N	4' WALL MOUNT LED	KENALL	WCBU-4-0-1/1-45L40K-DCC-DV-1	LED, 4000K	N/A	45	120/277
N6	6" LED DOWNLIGHT	GOTHAM	ICO-40/20-6AR-20D-277	LED, 4000K	N/A	28	277
NL	PATIENT ROOM NIGHT LIGHT	MP LIGHTING	L47-6-W275-A	LED, 2700K	N/A	6	120/277
P1	ELEVATOR PIT LIGHT	LITHONIA	THN-LED-40C-100K-40K-120-120V	LED, 4000K	N/A	34	120
P2	TAMPER RESISTANT 6" RECESSED LED DOWNLIGHT	KENALL	HADL6VL2-13L40K-DV-DCFM-T	LED, 4000K	N/A	13	120/277
W1	EXTERIOR WALL MOUNTED FIXTURE	SPAULDING	TRP-30L4K-53-4-U	LED, 4000K	N/A	53	277
B1	EXTERIOR VANDAL RESISTANT BOLLARD	KIM	VRBI-20L-4K-UV	LED, 4000K	N/A	25	277
HB	EXTERIOR POLE MOUNTED PARKING FIXTURE	LITHONIA	MRI LED 42C 530 40K SR2 MVOLT	LED, 4000K	N/A	98	277
ES	LED EXIT SIGN	LITHONIA	EDGR-N-1/2-R	LED	N/A	4.5	277

- NOTES:
1. LUMINAIRES IN EQUAL FORM AND FUNCTION ARE ACCEPTABLE.
 2. ~~WYOTEC TWIN~~
 3. NOT USED.
 4. NOT USED.
 5. NOT USED.
 6. NOT USED.
 7. ~~SECURE WITH PHOTOCELL OPTION.~~
 8. COLOR AS SELECTED BY ARCHITECT.
 9. MATCH EXISTING FIXTURE.

COMcheck Software Version 4.0.1 Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: Banner Behavioral Health Inpatient Bldg.
Project Type: New Construction

Construction Site: 7575 E. Earle Drive, Scottsdale, AZ 85251
Owner/Agent: Bill Smith, Banner Health, 2145 W. Southern Ave., Mesa, AZ 85202, 480-226-9947, bill.smith@bannerhealth.com
Designer/Contractor: Richard Seger, DNE Engineering, 3300 N. Central Ave., Ste 1520, Phoenix, AZ 85012, 602-606-7432, rseger@dneeng.com

Additional Efficiency Package

Unspecified

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Hospital	79000	1.19	94800
Total Allowed Watts = 94800			

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Hospital				
LED 1: B4: 2x4 Recessed Lensed LED Other Fixture Unit 25W:	1	34	25	850
LED 2: F1: 2' Round High Bay LED Other Fixture Unit 120W:	1	12	120	1440
LED 3: F2: 2'x2' Direct/Indirect LED Other Fixture Unit 48W:	1	90	45	4050
LED 4: F4: 2'x4' Direct/Indirect LED Other Fixture Unit 48W:	1	206	45	9270
LED 5: G4: 6" Down Downlight LED Other Fixture Unit 18W:	1	20	18	360
LED 6: L4: 4' Strip Light LED Other Fixture Unit 50W:	1	12	53	636
LED 7: P1: Elevator Pit Light LED Other Fixture Unit 40W:	1	2	39	78
LED 8: P2: 6" Downlight LED Other Fixture Unit 13W:	1	749	13	9737
LED 9: A4: 2'x4' Direct/Indirect LED Other Fixture Unit 40W:	1	24	40	960
LED 10: H4: 2'x4' Lensed LED Other Fixture Unit 46W:	1	24	45	1080
LED 11: N6: 6" Downlight LED Other Fixture Unit 28W:	1	24	28	672
Total Proposed Watts =				29133

Interior Lighting PASSES: Design 69% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements listed

Project Title: Banner Behavioral Health Inpatient Bldg. Report date: 11/04/15
Data filename: N:\2015\00244.00 - BBHH Patient Tower\02_Documents\MEPELEC\Other\BBHH COMcheck.cck Page 1 of 8

In the Inspection Checklist

Richard M. Seger, P.E.

Name - Title

Signature

11.09.2015

Date

Project Title: Banner Behavioral Health Inpatient Bldg. Report date: 11/04/15
Data filename: N:\2015\00244.00 - BBHH Patient Tower\02_Documents\MEPELEC\Other\BBHH COMcheck.cck Page 2 of 8

COMcheck Software Version 4.0.1 Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: Banner Behavioral Health Inpatient Bldg.
Project Type: New Construction
Exterior Lighting Zone: 2 (Neighborhood business district)

Construction Site: 7575 E. Earle Drive, Scottsdale, AZ 85251
Owner/Agent: Bill Smith, Banner Health, 2145 W. Southern Ave., Mesa, AZ 85202, 480-226-9947, bill.smith@bannerhealth.com
Designer/Contractor: Richard Seger, DNE Engineering, 3300 N. Central Ave., Ste 1520, Phoenix, AZ 85012, 602-606-7432, rseger@dneeng.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Walkway >= 10 feet wide	45797 ft ²	0.14	Yes	6412
Total Tradable Watts (a) =				6412
Total Allowed Watts =				6412
Total Allowed Supplemental Watts (b) =				600

(a) Wattage tradable is only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Walkway >= 10 feet wide (45797 ft ²): Tradable Wattage				
LED 1: B1: LED Other Fixture Unit 25W:	1	28	25	700
LED 2: W1: LED Other Fixture Unit 50W:	1	13	53	689
Total Tradable Proposed Watts =				1389

Exterior Lighting PASSES: Design 80% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

Richard M. Seger, P.E.

Name - Title

Signature

11.09.2015

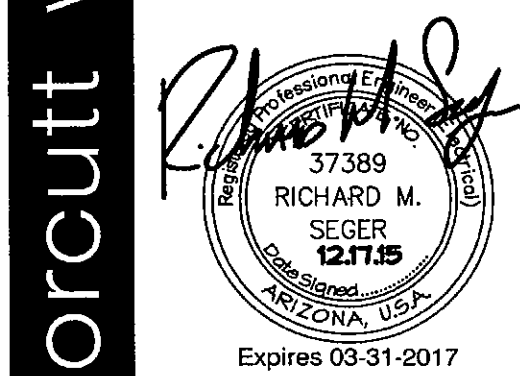
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Project Title: Banner Behavioral Health Inpatient Bldg. Report date: 11/04/15
Data filename: N:\2015\00244.00 - BBHH Patient Tower\02_Documents\MEPELEC\Other\BBHH COMcheck.cck Page 3 of 8

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3300 N. Central Ave. STE 1520
Phoenix, AZ 85012
TL 602.606.7432

Banner Health
**Banner Behavioral Health Hospital
Inpatient Building**
7575 East Earle Drive, Scottsdale, Arizona 85251

CLIENT CONTACT

Bill Smith: 480.226.9947
2145 W. Southern Ave.: 480.412.4219
Mesa, Arizona 85202: bill.smith@bannerhealth.com

PROJECT NO.: 2015_043
DATE OF ISSUE: 11.09.2015

REVISION NO.:
DATE:

1 DESIGN TEAM 2015-12-17
2 COORDINATION 2015-12-17
3 OWNER COMMENTS 2015-12-17
4 CITY COMMENTS 2015-12-17
5 ADHS COMMENTS 2015-12-17

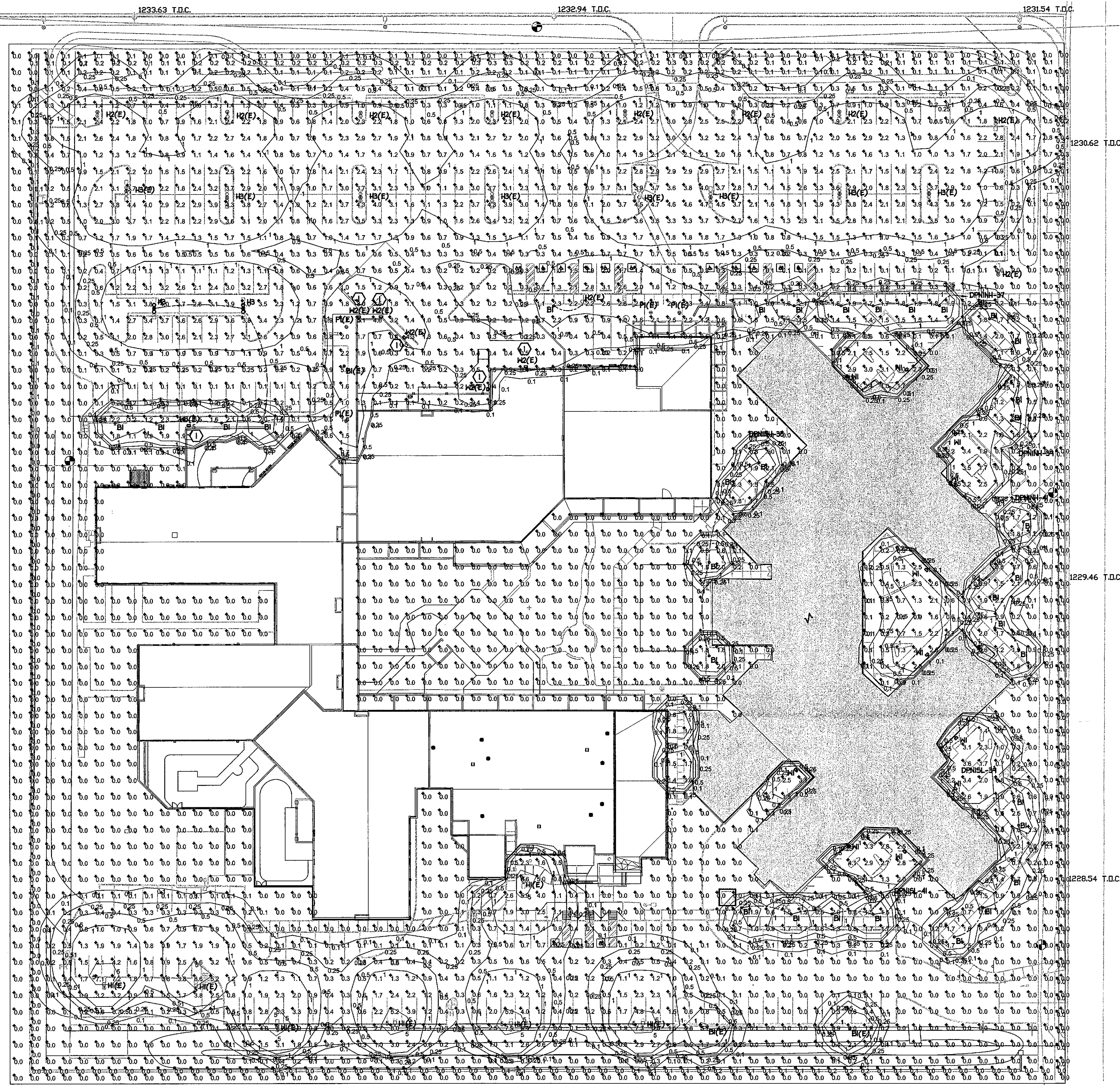
PROJECT TEAM: mulhall
DRAWN BY: team

PROJECT PHASE: construction documents

SHEET CONTENTS: LIGHTING SCHEDULES

SHEET NO.:

E411



LIGHTING NOTES:

GENERAL NOTES:

1. NOT USED

LIGHTING CALCULATION STATISTICS

Description	Symbol	Avg	Max	Min	MaxMin	AvgMin
Site Calculation	+	0.7 fc	6.7 fc	0.0 fc	N/A	N/A
North Property Line	+	0.2 fc	0.3 fc	0.0 fc	N/A	N/A
East Property Line	+	0.1 fc	0.3 fc	0.0 fc	N/A	N/A
South Property Line	+	0.0 fc	0.2 fc	0.0 fc	N/A	N/A
West Property Line	+	0.0 fc	0.3 fc	0.0 fc	N/A	N/A

LIGHT FIXTURE SCHEDULE									
Symbol	Label	Qty	Manufacturer	Catalog Number	Description	Lamp	File Name	Lumens Per Lamp	Wattage
	B1	35	KIM LIGHTING	VRB1-20L4K	VANDAL-RESISTANT ROUND BOLLARD LED CAST ALUMINUM CONE AND DOWNERS ATTACHED TO AN ALUMINUM RISER, TEMPERED CLEAR GLASS	20 LEDS, 4200K	vr1-20L4K.lvs	1000,096	24.2
	B1E	3	KIM LIGHTING	VRB1102PMH-ED17	VANDAL-RESISTANT ROUND BOLLARD LUMINAIRE CAST ALUM CAP & COVER ASSEMBLY WITH ALUM OR CONCRETE SHAFT	100 WATT PMH COATED ED-17 MED BASE VERT.	vr1-100p.lvs	7800	100
	H1E	7	SPALDING LIGHTING	RCS-p-P15H4	OUTDOOR ARCHITECTURAL ROADWAY LUMINAIRE CAST ALUM ENCL. CLEAR FLAT GLASS	150W MET HAL ED 26	RCS-p-P15-H4.lvs	12950	169
	H2E	9	Lithonia Lighting	MR1 LED 42C 350 40K SR2 MVCLT	MR1 AREA LIGHT 42 LEDS 350 MA DRIVE CURRENT 40K COLOR TEMP TYPE 2 DISTRIBUTION	HLM LIGHT ENGINE	MR1_LED_42C_350_40K_SR2_MVCLT.lvs	5127,416	49
	H3	2	Lithonia Lighting	MR1 LED 42C 350 40K SR2 MVCLT	MR1 AREA LIGHT 42 LEDS 350 MA DRIVE CURRENT 40K COLOR TEMP TYPE 2 DISTRIBUTION	HLM LIGHT ENGINE	MR1_LED_42C_350_40K_SR2_MVCLT.lvs	5127,416	98
	H3E	6	Lithonia Lighting	MR1 LED 42C 350 40K SR2 MVCLT	MR1 AREA LIGHT 42 LEDS 350 MA DRIVE CURRENT 40K COLOR TEMP TYPE 2 DISTRIBUTION	HLM LIGHT ENGINE	MR1_LED_42C_350_40K_SR2_MVCLT.lvs	5127,416	98
	P1E	4	KIM LIGHTING	NS1H270PMH-ED17	NEOSPHERE AREA & PATH LUMINAIRE DIE CAST ALUM. REFLECTOR SYSTEM WITH SPECULAR PANELS DIE CAST ALUM HOUSING AND LENS FRAME CLEAR HEMISPHERICAL ACRYLIC LENS	70 WATT COATED, PMH ED17 MEDIUM BASE LAMP, HORIZONTAL POSITION, RATED AT 4750 INITIAL LUMENS	ns1h2-70p.lvs	4750	70
	W1	11	SPALDING LIGHTING	TWP-30L4K-053-4	TWP GEOMETRIC SCONCE 4000K, 53S 1/4 TYPE 4 LENS	30-NICHIA LEDS 4000K	TWP-30L4K-053-4.lvs	3178,638	50
	W2E	5	Lithonia Lighting	TWP-70M	DIE-CAST GENERAL PURPOSE WALLPACK WITH POLYCARBONATE REFRACTOR	ONE 10-WATT CLEAR ED-17 METAL HALIDE, HORIZONTAL POSITION.	TWP_70M.lvs	5200	95
	W3E	1	NULITE	EA-175M4	CAST ALUMINUM HOUSING FORMED SEMI-SPHERICAL HAMMERTONE ALUMINUM REFLECTOR, CLEAR GLASS ENCLOSURE	ONE CLEAR HORIZONTAL M7 175 WATT METAL HALIDE LAMP RATED AT 14,000 LUMENS.	EA-175M.lvs	5200	175

NORTH
SCALE: 1" = 30'-0"

SITE LIGHTING PHOTOMETRIC CALCULATION PLAN

APPROVED
FINAL PLANS PLANNING
DATE: 11/09/2015

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RICHARD M.
SEGER
2715
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 03-31-2017

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CLIENT CONTACT

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PROJECT NO. 2015_043
DATE OF ISSUE 11.09.2015

REVISION NO.
DATE

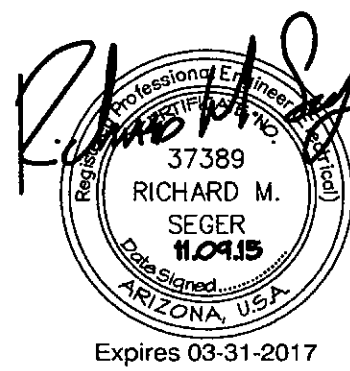
1 DESIGN TEAM 2015-12-17
2 GC RFPs 2015-12-17
3 OWNER COMMENTS 2015-12-17
4 CITY COMMENTS 2015-12-17
5 ADHS COMMENTS 2015-12-17

PROJECT TEAM muhall
DRAWN BY team

PROJECT PHASE construction documents

SHEET CONTENTS
SITE LIGHTING
PHOTOMETRIC PLAN
SHEET NO.

E012

[illegible]

FIXTURE TYPE H1E - EXISTING

[illegible]

Lumen Output

Lumen output is per photometric test, per foot-candle or foot-candle with 1000 lux. Data is provided to be representative of the performance of the luminaire shown by lighting layout. Luminaire layout is provided for performance data in any configuration for floor down.

FOOT CANDLE	FOOT	FOOT CANDLE				
		1	2	3	4	5
150	150	182	1,128	1	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
150	150	192	1,160	1	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
150	150	192	1,160	1	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
150	150	192	1,160	1	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
150	150	192	1,160	1	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
150	150	192	1,160	1	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
150	150	192	1,160	1	0	1
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		193	1,161	0	0	1
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150	150	192	1,160	1	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
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		193	1,161	0	0	1
		193	1,161	0	0	1
150	150	192	1,160	1	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1
		193	1,161	0	0	1

FIXTURE TYPE H2E, H3E - EXISTING; H2 - NEW

APPROVED
FINAL PLANS PLANNING
1/6/2016
DATE APPROVED

