

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	ENTRANCE
102	WOMENS
103	MENS
104	FIRE SPRINKLER/ RISER
105	EXHIBIT AREA
106	RECEIVING AREA
107	LOADING/UNLOADING
108	CHAIR STORAGE
109	MULTI-PURPOSE ROOM
110	OFFICE
111	OFFICE
112	OFFICE
113	LOBBY
114	OFFICE
115	OFFICE
116	STAIR
117	FOYER
118	BOX OFFICE
119	FOYER
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125	BACKSTAGE WORK AREA
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WALL LEGEND

	EXISTING WALL TO REMAIN
	EXISTING CMU WALL TO REMAIN
	EXISTING CMU WALL TO REMAIN
	NEW 6" METAL STUD WALL @ 16" O.C. WITH 1/2" TYPE "X" GYP. BD. TO 6" ABOVE CEILING, SEE DETAIL 1 ON SHEET AG3.10
	NEW CMU WALL

WALL FURRING TYPES

	1-1/2" Z-FURRING WITH RIGID INSULATION (R-10 MIN.)
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ACCESSORY SCHEDULE

#	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING TYPE	MOUNTING HT.	REMARKS
A	PAPER TOWEL DISPENSER/WASTE RECEPTICLE	BOBRICK	B-3949	SURFACE	58"	
B	SOAP DISPENSER	BOBRICK	B-4112	SURFACE	48"	
C	GRAB - BAR36	BOBRICK	B-6806	SURFACE	33"	
D	GRAB - BAR42	BOBRICK	B-6806	SURFACE	33"	
E	GRAB - BAR18	BOBRICK	B-6806	SURFACE	59"	
F	MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK	B-4288	SURFACE	26"	
G	SANITARY NAPKINS DISPOSAL	BOBRICK	B-270	SURFACE	25"	
H	SEAT-COVER DISPENSER	BOBRICK	B-4221	SURFACE	48"	
I	MIRROR	TBD	TBD	SURFACE	76"	
J	HAT AND COAT HOOK	BOBRICK	B-211	SURFACE	42"	

- A. ALL FINISHES SHALL BE SATIN U.N.O.
B. ALL MOUNTING HEIGHTS ARE FROM FINISH FLOOR TO TOP OF UNIT U.N.O.

FINISH LEGEND

	NEW CERAMIC TILE, (CT-5). IN AREAS WITH (CT-5) USE BASE (CB-1).
	EPOXY FLOORING (EP-1). IN AREAS WITH (EP-1) USE BASE (RB-1).
	ROOM FINISH SYMBOL

SHEET NOTES

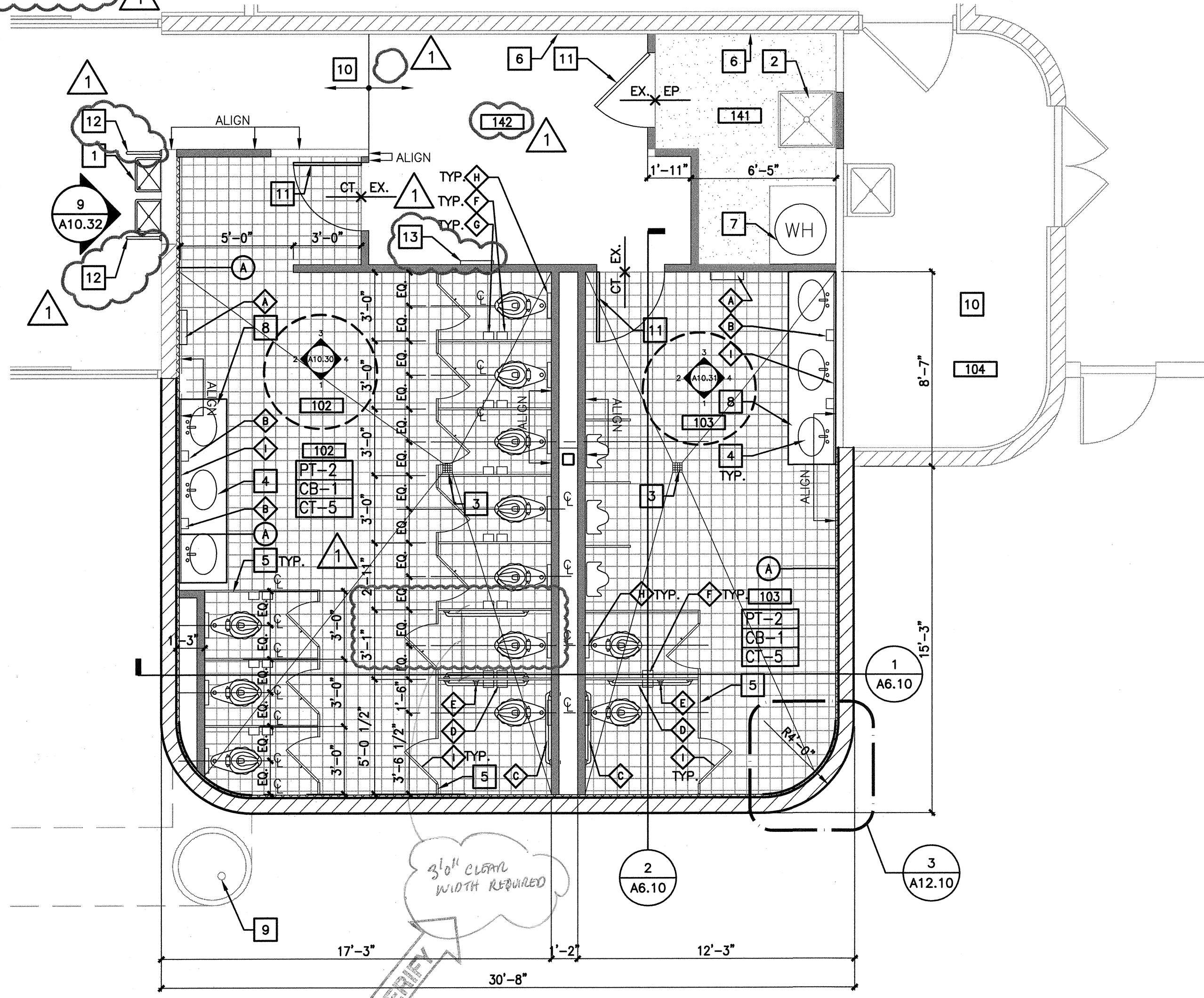
- A. SEE SHEET G1.00 FOR ALL ACCESSORY DIMENSIONS AND ADA COMPLIANCE
B. PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES - TYPICAL FOR MOUNTING AND WITH ADEQUATE SUPPORT TO MEET CODE REQUIREMENTS
C. INSULATE ALL LAVATORY AND HAND SINK EXPOSED DRAIN AND/OR HOT WATER PIPING BELOW FIXTURES PER ADAAG
D. PROTECT ALL EXISTING FINISHES, FURNITURE, EQUIPMENT, ETC. TO REMAIN DURING CONSTRUCTION. REPAIR ANY DAMAGES CAUSED TO EXISTING FINISHES DURING CONSTRUCTION.

KEY NOTES

- 1 NEW DRINKING FOUNTAINS.
2 EXISTING MOP SINK TO REMAIN. PROTECT DURING CONSTRUCTION.
3 FLOOR DRAIN.
4 NEW SINK AND MANUAL FAUCETS. SEE PLUMBING DRAWINGS.
5 NEW TOILET PARTITIONS.
6 PATCH AND REPAIR WALL WHERE DEMOLITION OCCURS.
7 INSTALL NEW WATER HEATER WITH 4" CONCRETE HOUSEKEEPING PAD.
8 SOLID SURFACE COUNTERTOP AND BACKSPLASH.
9 EXISTING PIPE COLUMN.
10 NO WORK TO BE DONE THIS AREA. PROTECT IN PLACE
11 REUSE EXISTING DOOR AND FRAME.
12 PROVIDE STAINLESS STEEL WALL TO FLOOR DRINKING FOUNTAIN SAFETY RAIL. SEE DETAIL 6/A12.10
13 PROVIDE DIRECTIONAL SIGNAGE TO READ "SINGLE USER/FAMILY RESTROOMS LOCATED BEHIND MULTI-PURPOSE ROOM."

FINISH LEGEND

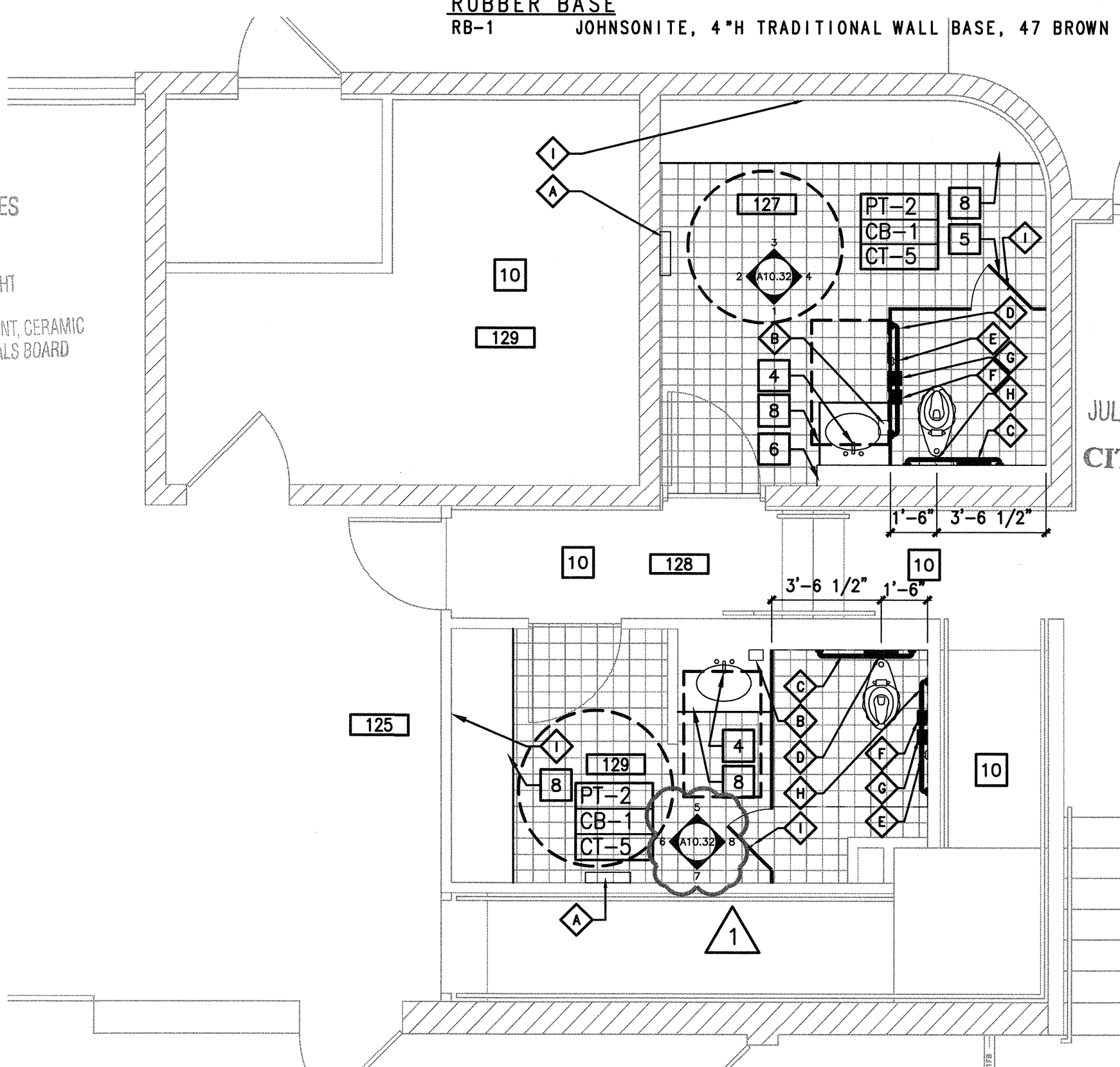
CEILING	ACT-1 ARMSTRONG #1903 ULTIMA SQUARE LAY-IN, 2X4
PAINT	PT-1 VISTA PAINT, WARM OYSTER, SEMI-GLOSS PT-2 SHERWIN WILLIAMS, SW 2839 ROYCROFT COPPER RED
CERAMIC TILE	CT-1 DALTILE, SEMI-GLOSS, K101 WHITE, 4-1/4" X 4-1/4" CT-2 DALTILE, SEMI-GLOSS, 0161 URBAN PUTTY, 4-1/4" X 4-1/4" CT-3 DALTILE, SEMI-GLOSS, 0182 SUEDE GRAY, 4-1/4" X 4-1/4" CT-4 DALTILE, SEMI-GLOSS, 0093 FIRE BRICK, 4-1/4" X 4-1/4" CT-5 DALTILE, KEYSTONES, D201 URBAN PUTTY SPECKLE, 2"X 2"
CERAMIC BASE	CB-1 DALTILE, SEMI-GLOSS, K101 WHITE, 4-1/4" X 4-1/4"
SOLID SURFACE	SS-1 FORMICA SIGNATURES, 742 BIANCO TERRAZZO
TOILET PARTITIONS	TP-1 BRADLEY POWDER COATED PARTITIONS, 0412 WARM GRAY
GROUT	GT-1 LATICRETE, 61 PARCHMENT
EPOXY FLOORING	EP-1 STONHARD, STONCLAD GS, COLOR: BEECHWOOD
RUBBER BASE	RB-1 JOHNSONITE, 4"H TRADITIONAL WALL BASE, 47 BROWN



ENLARGED FLOOR PLAN

1/4" = 1'-0"

A



ENLARGED FLOOR PLAN

1/4" = 1'-0"

B

REVISIONS
7/18/16 PLAN COMMENTS

ARCHITECT

ARCHITECTURE
7250 Peak Drive Suite 216 Las Vegas Nevada 89128
Phone: 702.229.6535
Fax: 702.229.6535
www.charlestonheights.com

DEPARTMENT OF PUBLIC WORKS

Charleston Heights Community Center
- Renovation -

ENLARGED FLOOR PLANS

07/18/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN: CJT
FILE: PLANS APPROVED
CONSTRUCTION
DATE: Building & Safety Dept.
City of Las Vegas
05/02/2016

SCALE: 1/4" = 1'-0"
15 SEP 14 2016

1559806.JH
Does Not Indicate Structural, Plumbing, Mechanical, Electrical or Civil Work
Improvement No Change
Permit to Violate Any Ordinance.
59806

SHEET NO.

A2.11

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	ENTRANCE
102	WOMENS
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105	EXHIBIT AREA
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SHEET NOTES

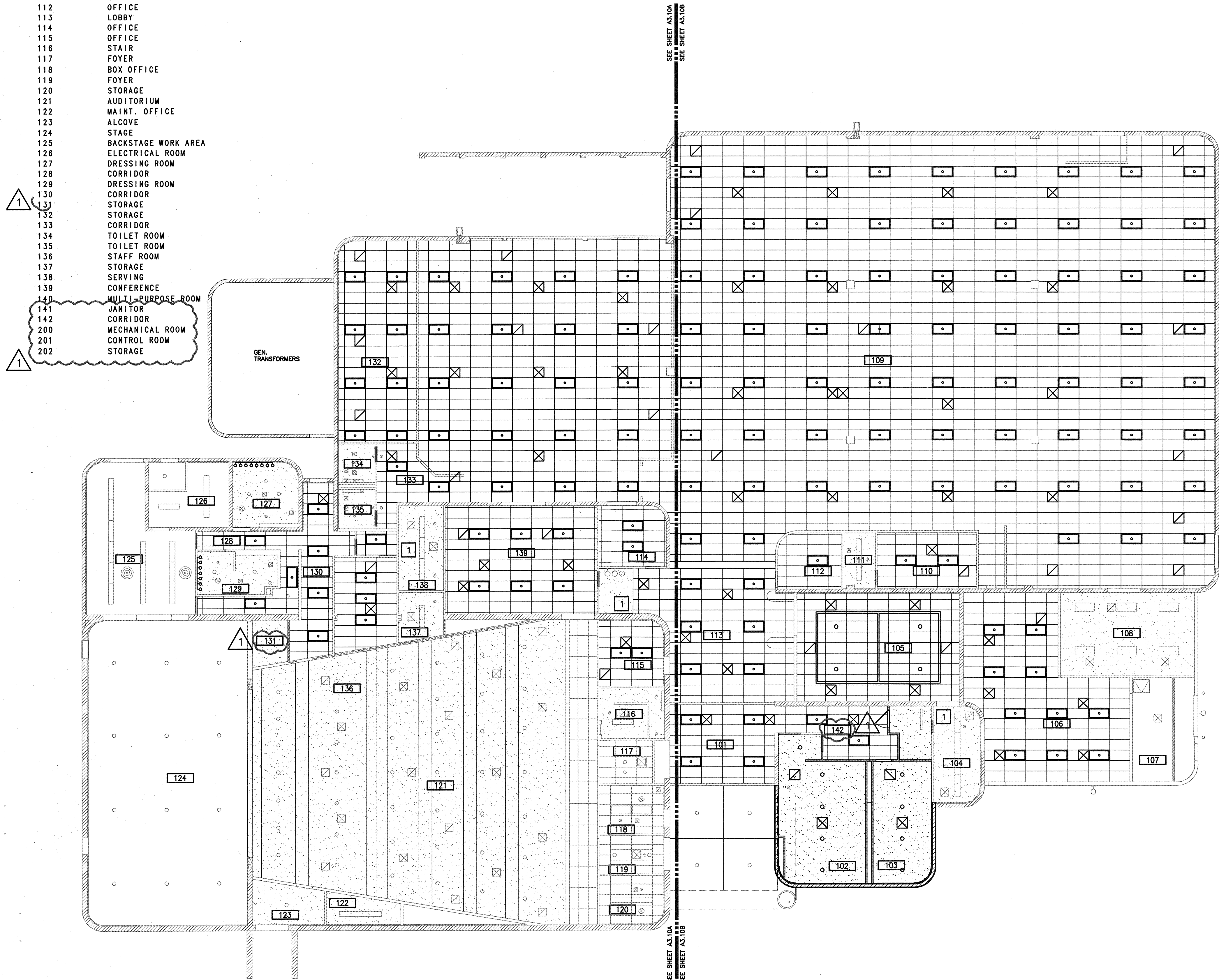
A. REFER TO SHEET A2.11 FOR FINISH LEGEND.

FIXTURE LEGEND

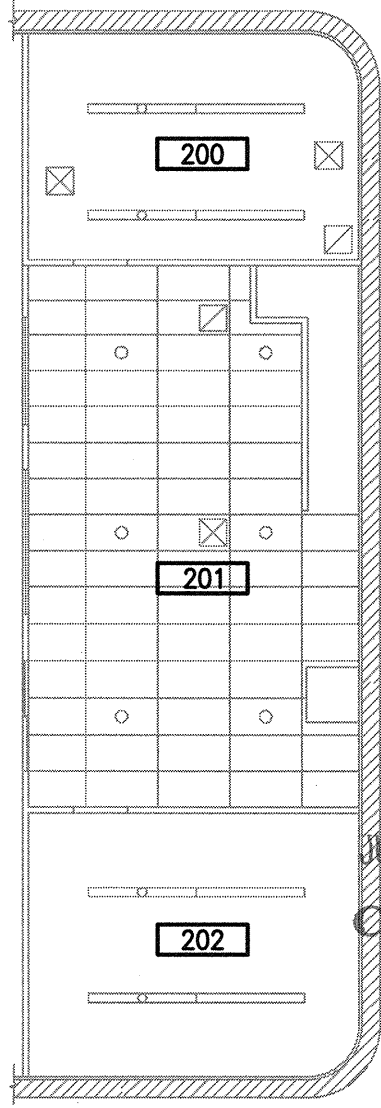
SYMBOL	DESCRIPTION
○	RECESSED DOWN LIGHT FIXTURE
⊕	SURFACE MOUNTED LIGHT FIXTURE
○○○○○	WALL MOUNTED VANITY MIRROR LIGHT FIXTURE
◻◻	RECESSED 2X4 OR 2X2 LAY-IN LIGHT FIXTURE
⌵	PENDANT MOUNTED LIGHT FIXTURE
— —	SURFACE MOUNTED STRIP FLUORESCENT LIGHT FIXTURE
— / —	CHAIN-MOUNTED STRIP FLUORESCENT LIGHT FIXTURE
⊙	CEILING MOUNTED ILLUMINATED EXIT SIGN
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⊕	BATTERY PACK
⊕	CEILING SPEAKER
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⊕	JUNCTION BOX
⊕	WALL MOUNTED JUNCTION BOX
⊕	SECURITY CAMERA
⊕	ACCESS PANEL
⊕	SUPPLY AIR DIFFUSER
⊕	RETURN AIR DIFFUSER / EXHAUST
⊕	EXHAUST FAN

CEILING TYPE LEGEND

SYMBOL	DESCRIPTION
A FINISH HEIGHT	ACOUSTICAL TILE CEILING, SEE DETAIL 1/A3.20
B FINISH	EXISTING CEILING TO REMAIN
C FINISH HEIGHT	GYPSUM BOARD CEILING, SEE DETAIL 2/A3.20
D FINISH HEIGHT	GYPSUM BOARD HEADER, SEE DETAIL 3/A3.20



Acoustical Ceiling
Systems Comply with
IBC Section-
808



OVERALL REFLECTED CEILING PLAN

3/32" = 1'-0"

MEZZANINE RCP

3/32" = 1'-0"

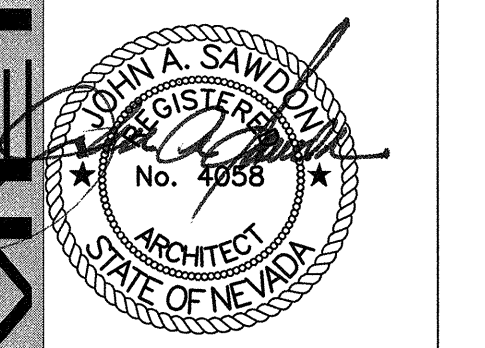


REVISIONS
7/18/16 PLAN COMMENTS

ARCHITECT

SH ARCHITECTURE
7250 Peak Drive Suite 216 Las Vegas Nevada 89128
Office 702.261.2222
www.sharchitecture.com

Charleston Heights Community Center
- Renovation -
OVERALL REFLECTED CEILING PLAN



07/18/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: 702.229.6535
FAX: 702.229.6535
TDD: 702.229.6535

DRAWN: City of Las Vegas, Nevada
CJT

7/18/2016

DATE: 07/18/2016

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SHEET NOTES

A. REFER TO SHEET A2.11 FOR FINISH SCHEDULE.

FIXTURE LEGEND

SYMBOL	DESCRIPTION
⊙	RECESSED DOWN LIGHT FIXTURE
⊕	SURFACE MOUNTED LIGHT FIXTURE
⊙⊙⊙⊙	WALL MOUNTED VANITY MIRROR LIGHT FIXTURE
⊙⊙	RECESSED 2X4 OR 2X2 LAY-IN LIGHT FIXTURE
⊗	PENDANT MOUNTED LIGHT FIXTURE
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CEILING TYPE LEGEND

SYMBOL	DESCRIPTION
A FINISH HEIGHT	ACOUSTICAL TILE CEILING, SEE DETAIL 1/A3.20
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C FINISH HEIGHT	GYPSUM BOARD CEILING, SEE DETAIL 2/A3.20
D FINISH HEIGHT	GYPSUM BOARD HEADER, SEE DETAIL 3/A3.20

KEYNOTES

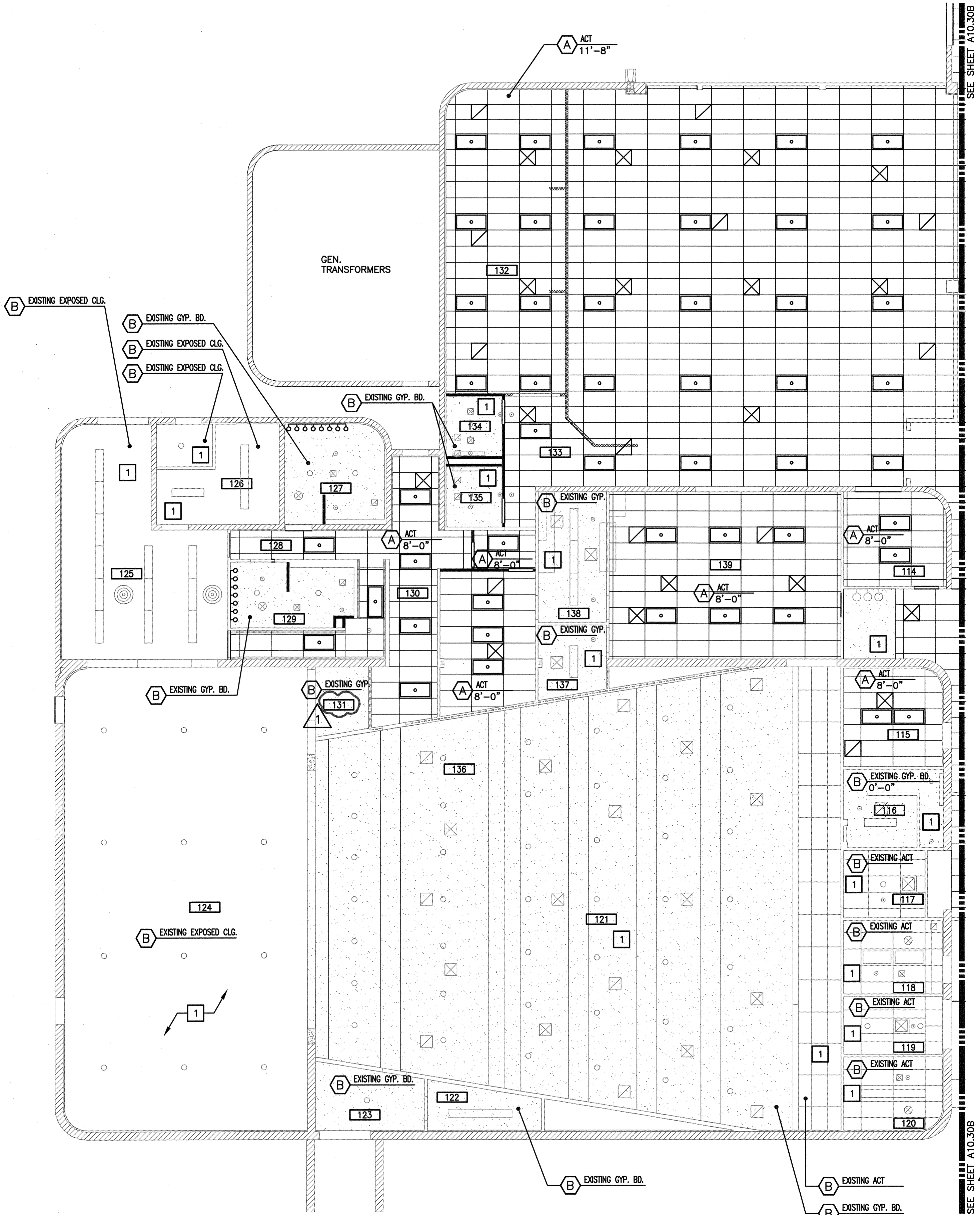
- 1 NO WORK TO BE DONE IN THIS AREA
- 2 PATCH AND REPAIR CEMENT PLASTER CANOPY AFTER INSTALLING RESTROOM EXPANSION. HEIGHT AND FINISH TO MATCH EXISTING.

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REFLECTED CEILING PLAN "A"

1/8" = 1'-0"



REVISIONS
7/18/16 PLAN COMMENTS

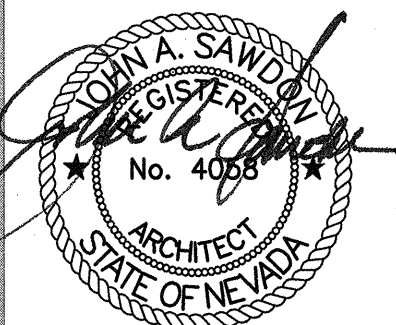
ARCHITECT

SH ARCHITECTURE
7250 East Drive Suite 216 Las Vegas Nevada 89128
Office 702.363.2222 www.sharchitecture.com

Charleston Heights Community Center

Renovation

REFLECTED CEILING PLAN "A"



07/18/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 229-6535
TDD: (702) 229-6535

DRAWN: Building & Safety Dept.
City of Las Vegas, Nevada

FILE: JBK SEP 14 2016

DATE: 05/02/2016

Does Not Conform to Mechanical, Plumbing
SCALE: Mechanical Structural or Off-Site
Improvements. Make No Change

Not a Permitting Ordinance
15.59806.01

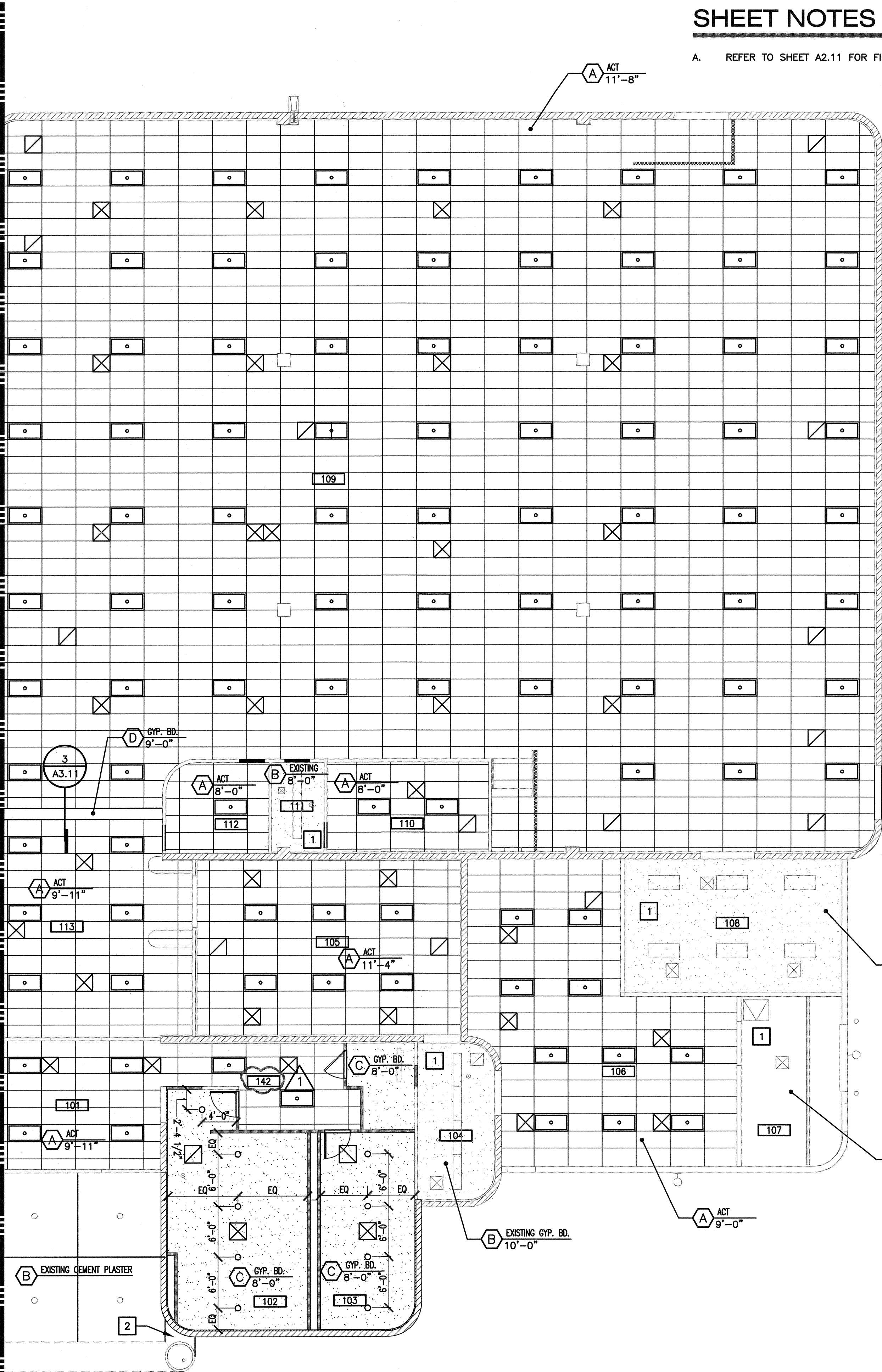
CLV DWG NO: 620-10B

HANSEN NO: 59806

SHT NO: A3.10A



SEE SHEET A10.30A



SHEET NOTES

A. REFER TO SHEET A2.11 FOR FINISH SCHEDULE.

FIXTURE LEGEND

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CEILING TYPE LEGEND

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B ^{FINISH} _{HEIGHT}	EXISTING CEILING TO REMAIN
C ^{FINISH} _{HEIGHT}	GYPSUM BOARD CEILING, SEE DETAIL 2/A3.20
D ^{FINISH} _{HEIGHT}	GYPSUM BOARD HEADER, SEE DETAIL 3/A3.20

KEYNOTES

- NO WORK TO BE DONE IN THIS AREA
- PATCH AND REPAIR CEMENT PLASTER CANOPY AFTER INSTALLING RESTROOM EXPANSION. HEIGHT AND FINISH TO MATCH EXISTING.

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REFLECTED CEILING PLAN "B"

1/8" = 1'-0"



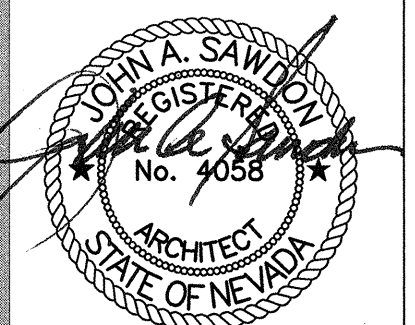
REVISIONS
7/18/16 PLAN COMMENTS

ARCHITECT

SH
ARCHITECTURE
7250 Peck Drive Suite 216 Las Vegas Nevada 89128
Office 702.363.2222 www.sharchitecture.com

Charleston Heights Community Center
- Renovation -

REFLECTED CEILING PLAN "B"



07/18/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: 702.251.5535
FAX: 702.251.5546
TDD: 702.251.5546

DRAWN: City of Las Vegas, Nevada
CJT

CHK: SEP 14 2016

Does Not Include Plumbing, Mechanical, or Electrical Off-Site Work.

Scale Improvements: Make No Changes Without Approval. Plan is for Information Only.

15.59806.JH

CLV DWG NO 620-10B

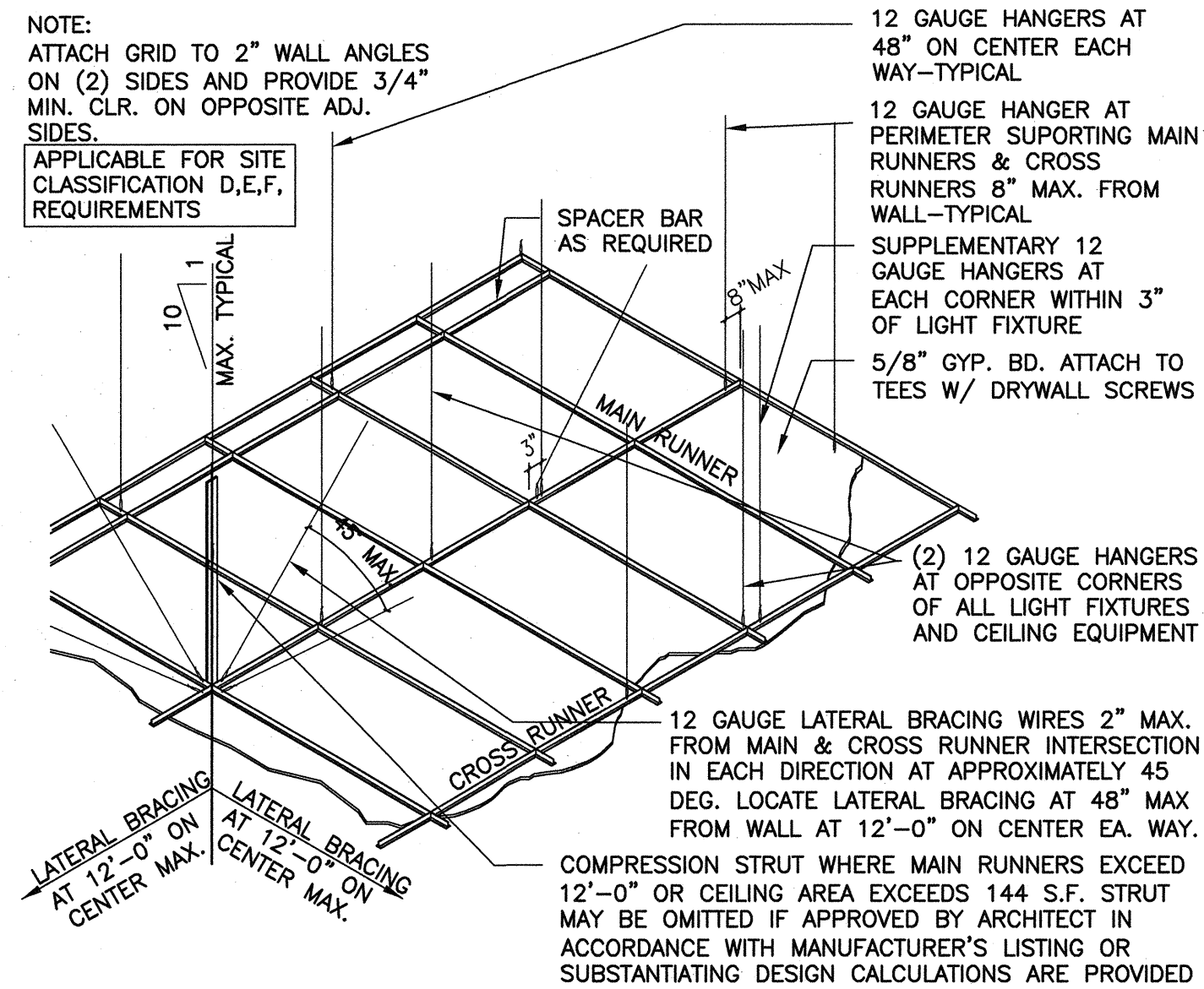
HANSEN NO 59806

SHEET NO

59806

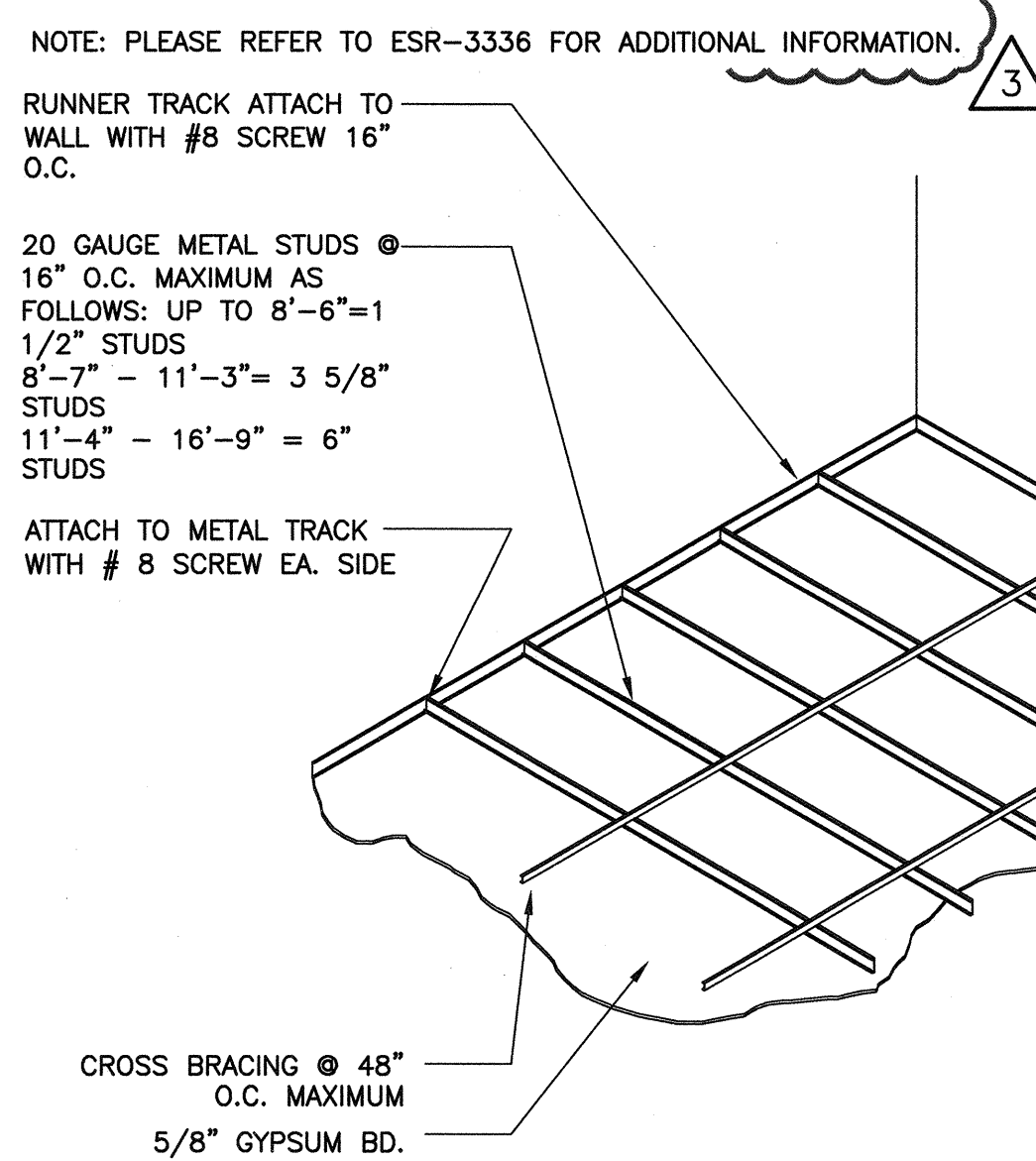
A3.10B

RECEIVED
JUL 21 2016 65103
CITY OF LAS VEGAS



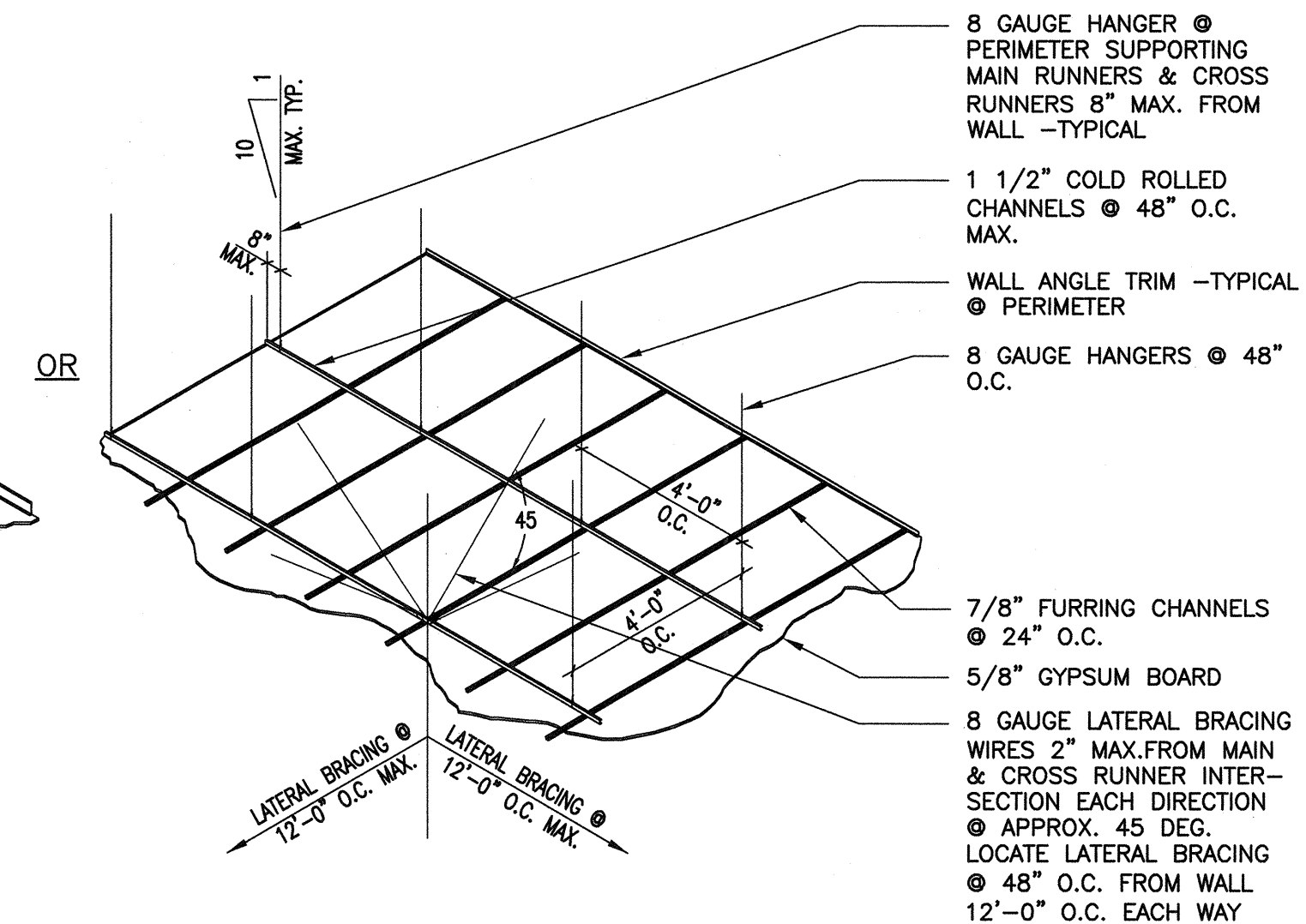
DETAIL 1
1/2" = 1'-0"

M102-03

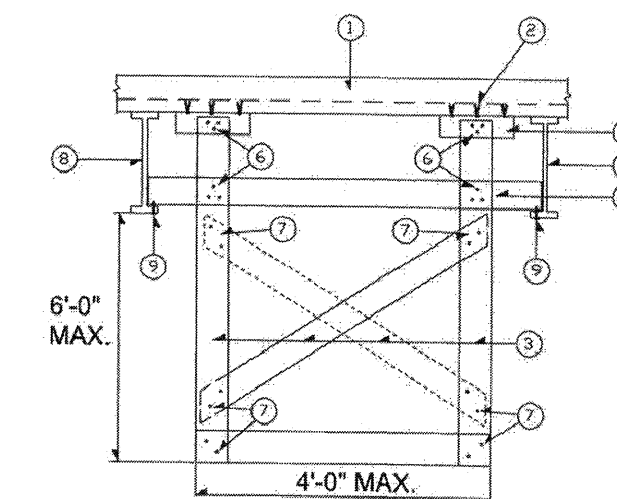


GYPSUM BOARD CEILING - METAL FRAME OR SUSPENDED 2

M102-01

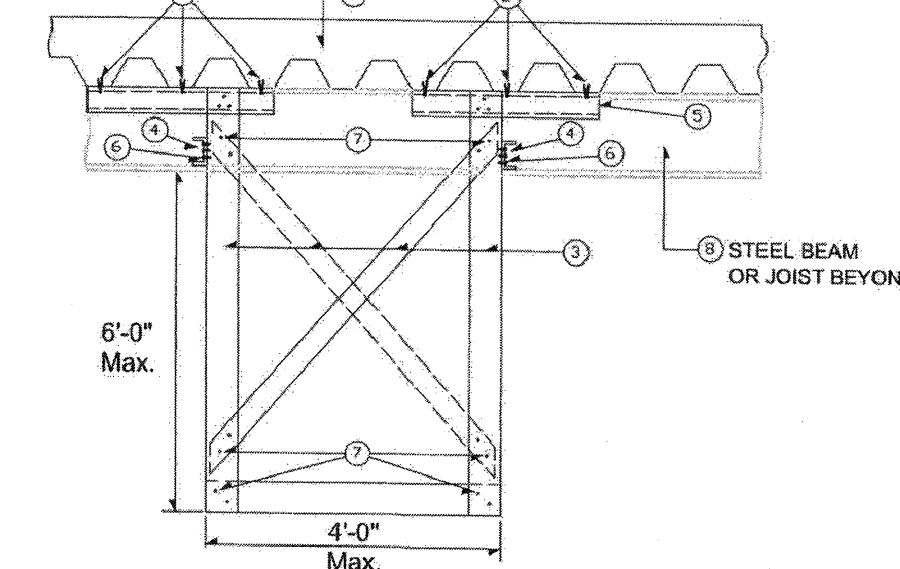


STEEL STUD SOFFIT FRAMING PARALLEL TO STEEL BEAM OR STEEL JOISTS



- LEGEND:
- ① CONCRETE ON METAL DECK
 - ② 1770 X 1" HILTI SHOT PINS IN CONCRETE, SPACED @ 6" O.C.
 - ③ 362S137-33 STEEL STUDS @ 24" O.C. (WITH DIAGONALS ALTERNATE OR STAGGERED)
 - ④ 600S162-33 @ EACH STUD WITH 2 # 12 SCREWS AT EACH END
 - ⑤ 600S125-33 @ EACH STUD, 18" MIN. LENGTH
 - ⑥ 3 # 10 SCREWS
 - ⑦ 2 # 10 SCREWS
 - ⑧ STEEL BEAMS OR STEEL JOISTS
 - ⑨ 2 # 12 SCREWS AT EACH END

STEEL STUD SOFFIT FRAMING PERPENDICULAR TO STEEL BEAM OR STEEL JOISTS



- NOTES:
1. 5 PSF LATERAL LOAD
 2. Fy (MIN.) = 33 ksi
 3. MATERIALS, LOADS AND INSTALLATION SHALL COMPLY WITH THE 2012 IBC.
 4. GYPSUM BOARD MATERIALS, ACCESSORIES AND ATTACHMENT SHALL COMPLY WITH 2012 IBC.
 5. THESE DETAILS ARE GUIDELINES ONLY. THE REGISTERED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER) MAY PROVIDE ALTERNATE DESIGN AND CALCULATIONS THAT COMPLY WITH 2012 IBC.
 6. SEE ARCHITECTURAL FOR SOFFIT DIMENSIONS.
 7. DOES NOT APPLY TO SOFFIT FRAMING WITH DIFFERENT CONFIGURATIONS.

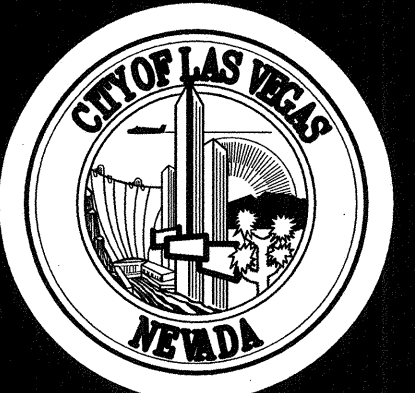
SOFFIT FRAMING DETAIL 3

RECEIVED

SEP 13 2016 65103

CITY OF LAS VEGAS

NTS



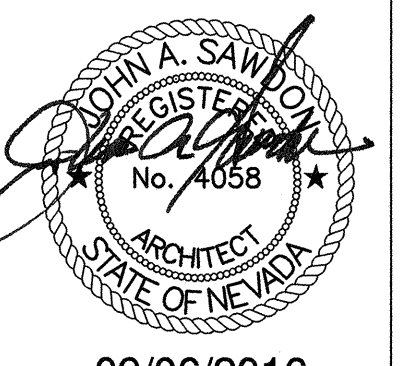
REVISIONS
8/2/16 PLAN COMMENTS
9/6/16 PLAN COMMENTS

ARCHITECT

SHORCH ARCHITECTURE
7750 East Dillard Avenue, Suite 214, Las Vegas, Nevada 89128
Office: 702.363.2222
www.shorcharchitecture.com

Charleston Heights Community Center
- Renovation -

CEILING DETAILS



09/06/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 251-4525
FAX: (702) 251-4546
TDD: (702) 251-4546
City of Las Vegas, Nevada
CJT

DATE: Does Not Include Electrical, Plumbing, Mechanical, or Off-Site

SCALE: Implementation: make no change

Without Approval, Plan is

Not a Permit to Violate Any Ordinance

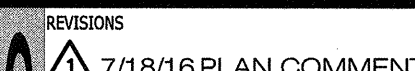
RID NO 15.59806.JH

CLY DWG NO 620-10B

HANSEN NO 59806

SHT NO

A3.20

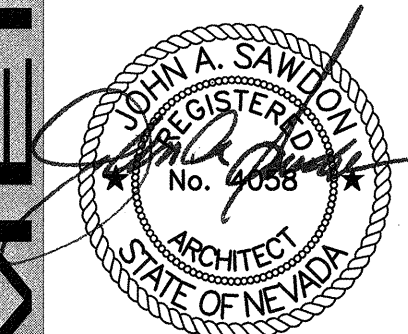


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2250 Peak Drive Suite 216 Las Vegas Nevada 89102
Office 702.363.2222 www.shenichitecture.com

Charleston Heights Community Center

PROOF BY AN



07/18/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN CJT
FILE PLANS APPROVED
CONSTRUCTION
DATE Building & Safety Dept.
City of Nevada 05/02/2016
SCALE JBK SEP 14 2016

BID NO. **15-59806-JH**
 Does Not Include Mechanical, Plumbing, Mechanical Structural or Off-Street
 CIV DWG NO. **620-005**
 Improvements. Make No Change Without Approval. Plan is
 Subject to Permit to Violate Any Ordinance.
 HANSEN NO. **59806**
 SHEET NO.

A4.1C

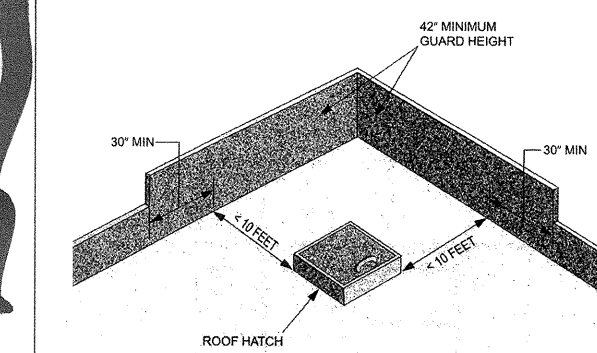
- 1 NEW ROOFING MEMBRANE a/ EXISTING SHEATHING AND STRUCTURE
- 2 NEW EXHAUST FAN
- 3 EXISTING MECHANICAL UNIT TO REMAIN
- 4 REUSE EXISTING ROOF ACCESS HATCH. PROVIDE ADDITIONAL TELESOPING LADDER SAFETY POST
- 5 CRICKET
- 6 EXISTING ROOF DRAIN AND OVERFLOW DRAIN
- 7 NEW PARAPET LADDER, SEE DETAIL 6 ON SHEET A4.11
- 8 4" VENT PIPE
- 9 NEW MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- 10 NEW ROOF AND OVERFLOW DRAIN
- 11 PROVIDE GUARDRAIL FOR FALL PROTECTION.

NEW SINGLE PLY ROOFING o/ NEW R-38 RIGID INSULATION o/ EXISTING ROOF
SHEATHING o/ EXISTING JOISTS

2012 IBC Section 1013.3: Guard height.
Required guards shall not be less than 42 inches high, measured vertically as follows: 1. From the adjacent walking surfaces; 2. On stairs, from the line connecting the leading edges of the treads; and 3. On ramps, from the ramp surface at the guard.

2012 IBC Section 1013.6: Mechanical equipment.
Guards shall be provided where appliances, equipment, fans or roof hatch openings or other components that require service are located within 10 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. The guard shall be constructed so as to prevent the passage of a sphere 21 inches in diameter. The guard shall extend not less than 30 inches beyond each end of such appliance, equipment, fan or component.

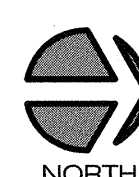
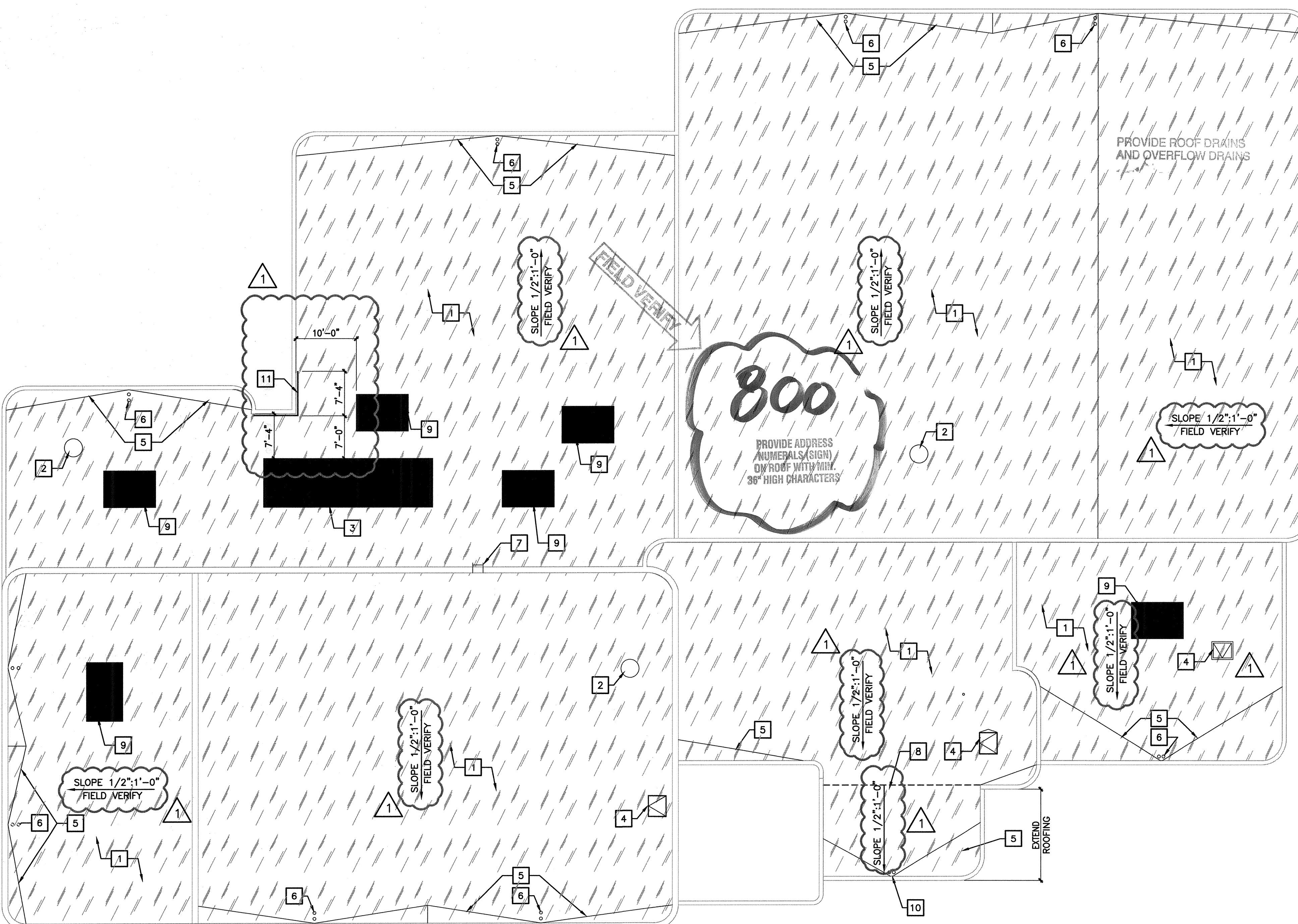
2012 IBC Section 1013.7: Roof access.
Guards shall be provided where the roof hatch opening is located within 10 feet of a roof edge or open side of a walking surface and such edge or open side is located more than 30 inches above the floor, roof or grade below. The guard shall be constructed so as to prevent the passage of a sphere 21 inches in diameter.

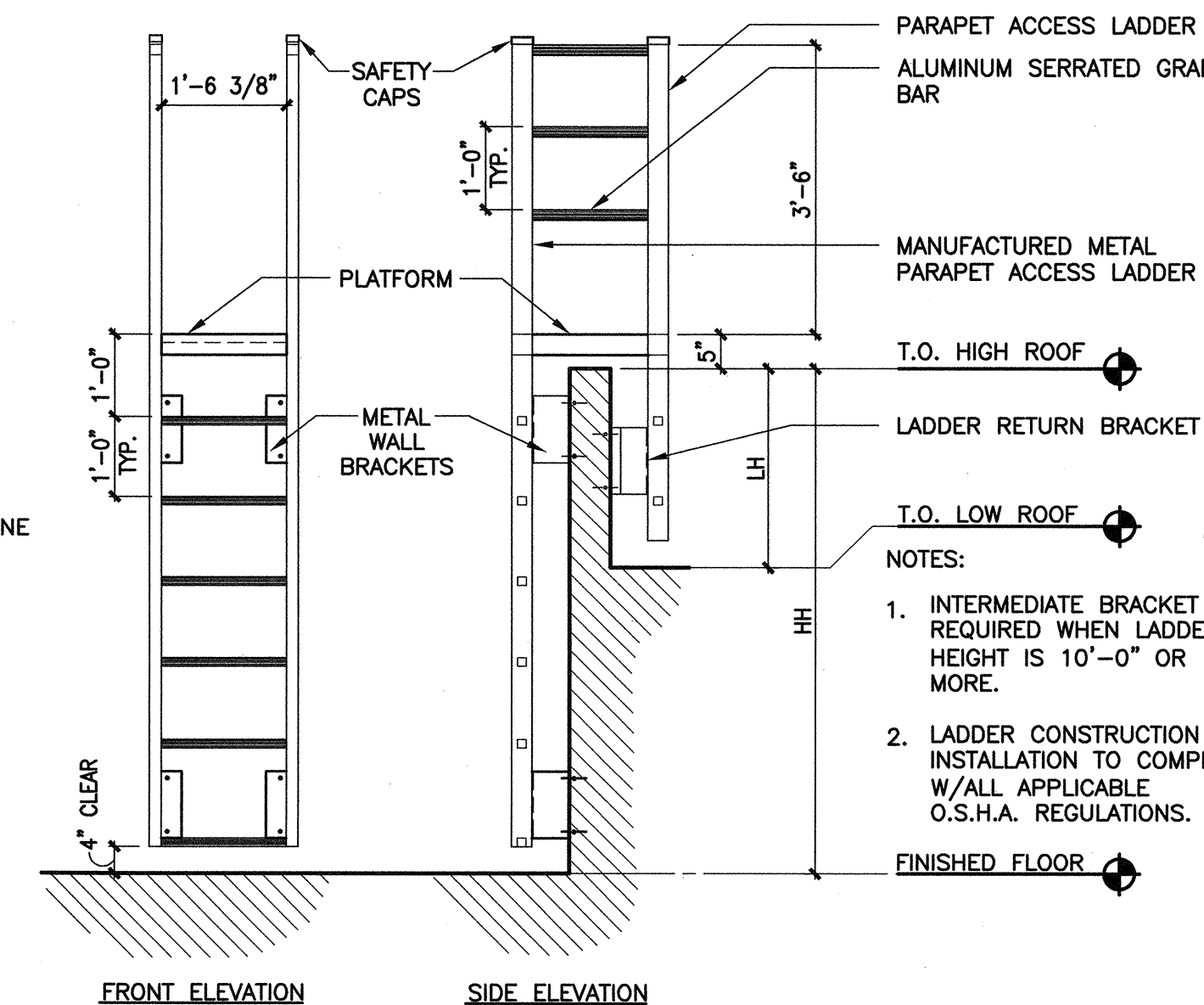
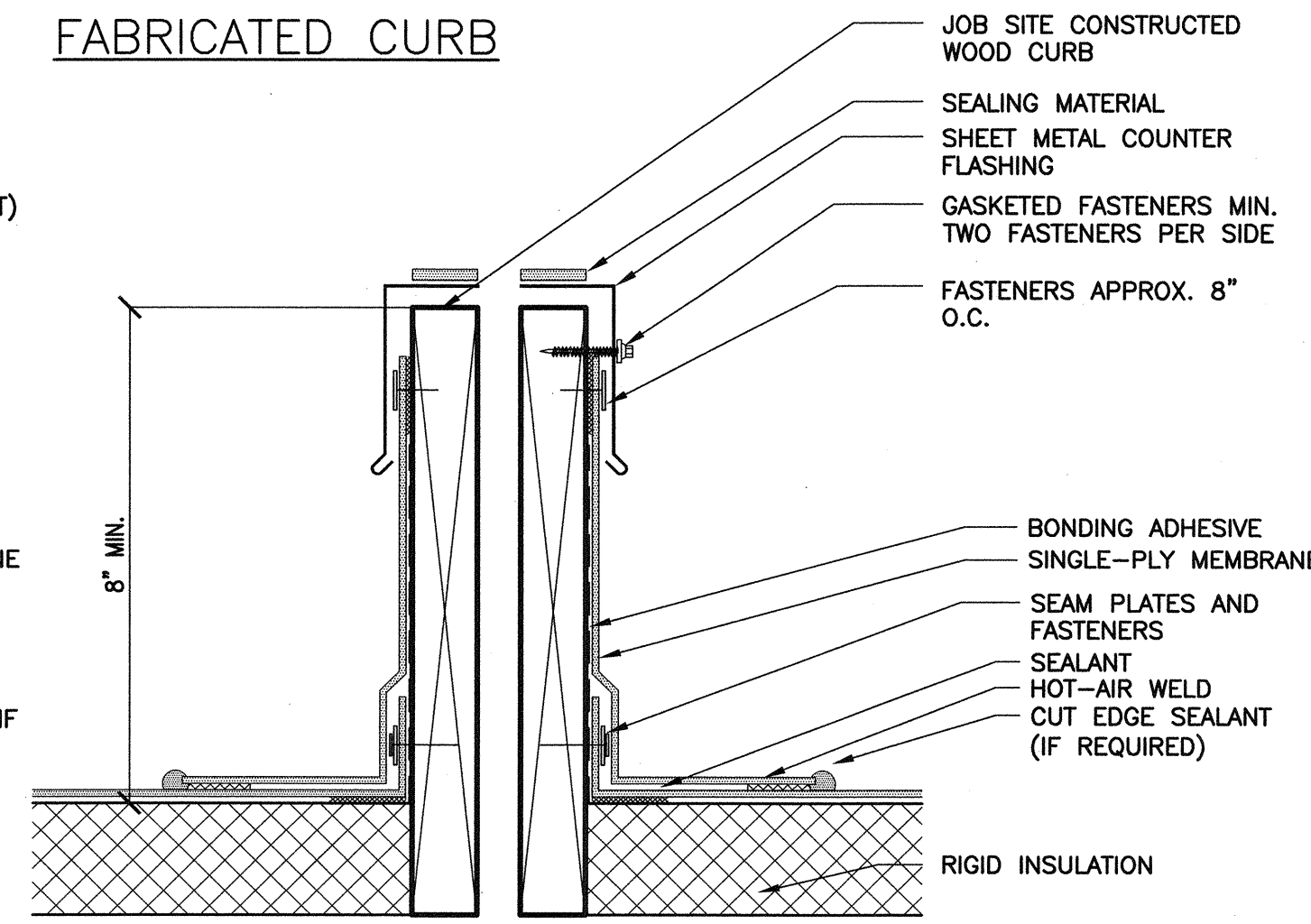
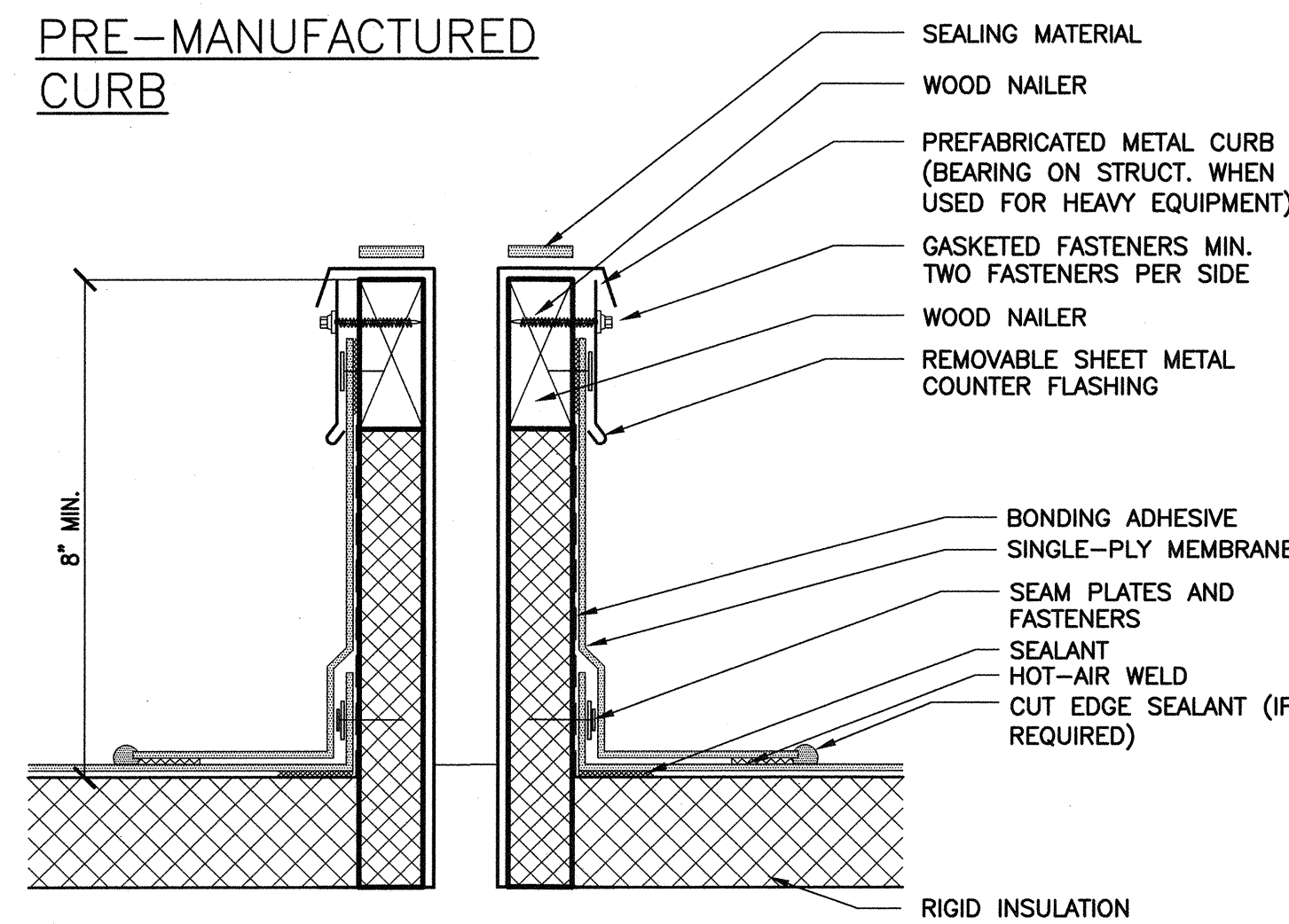
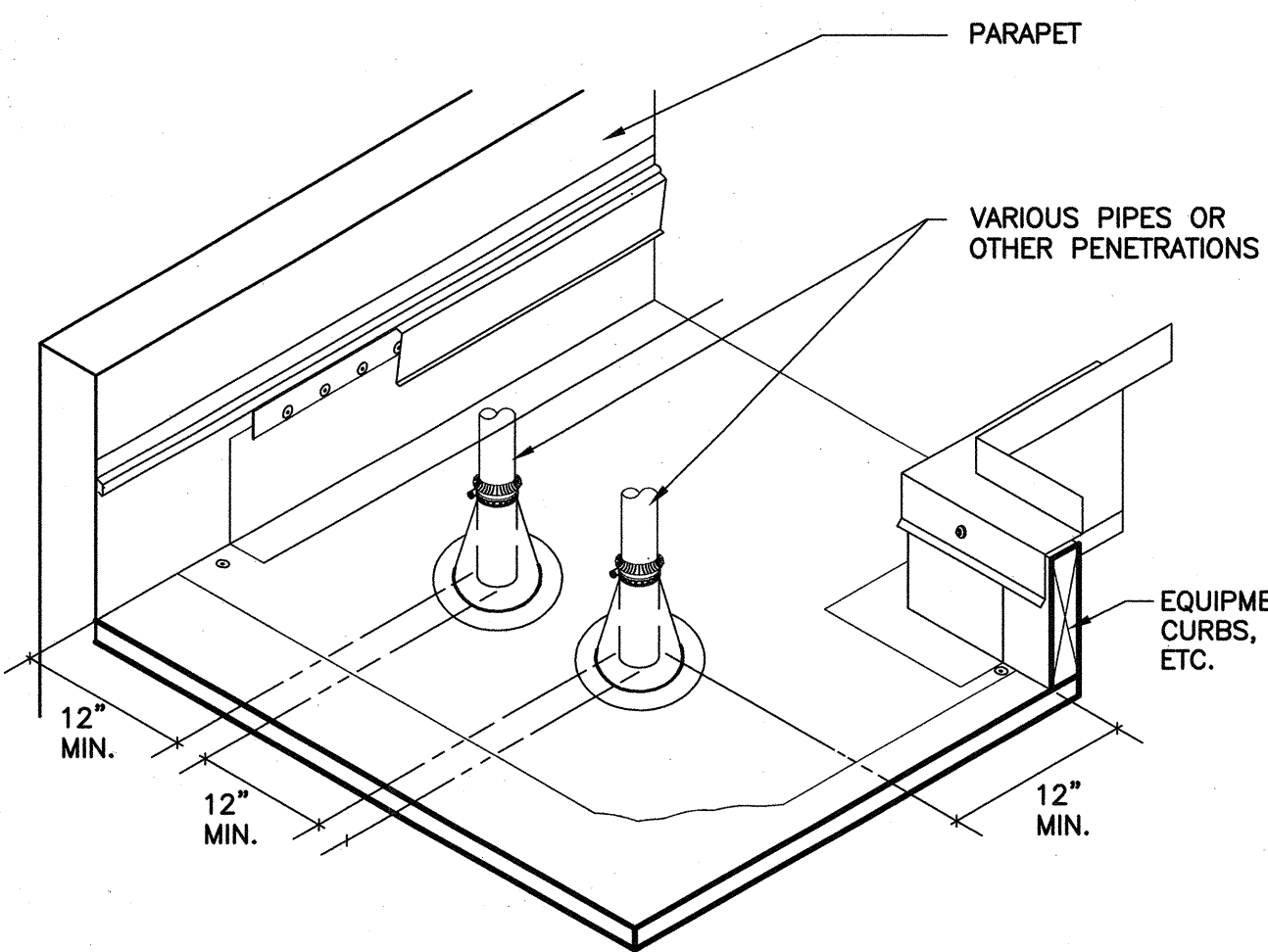
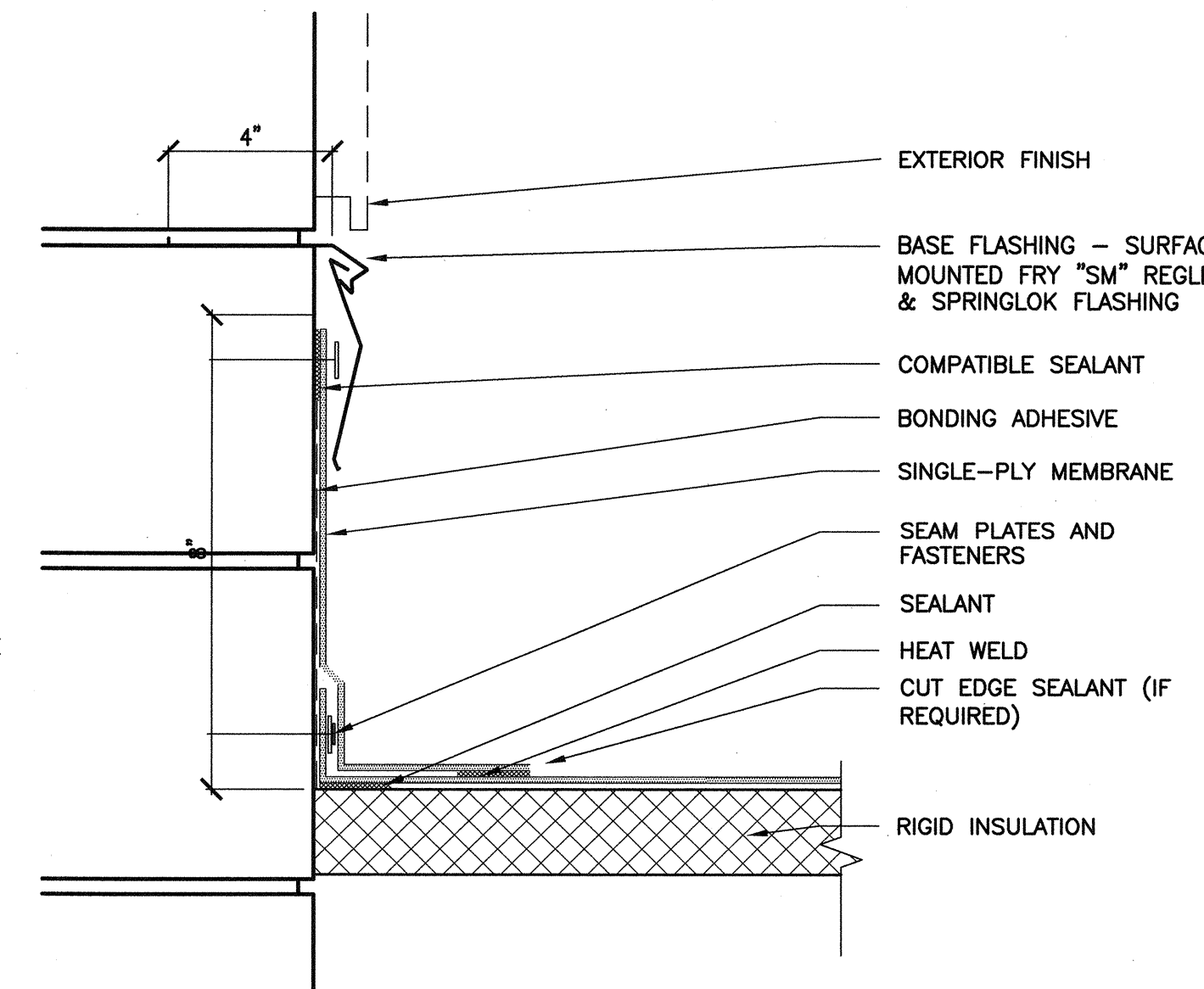
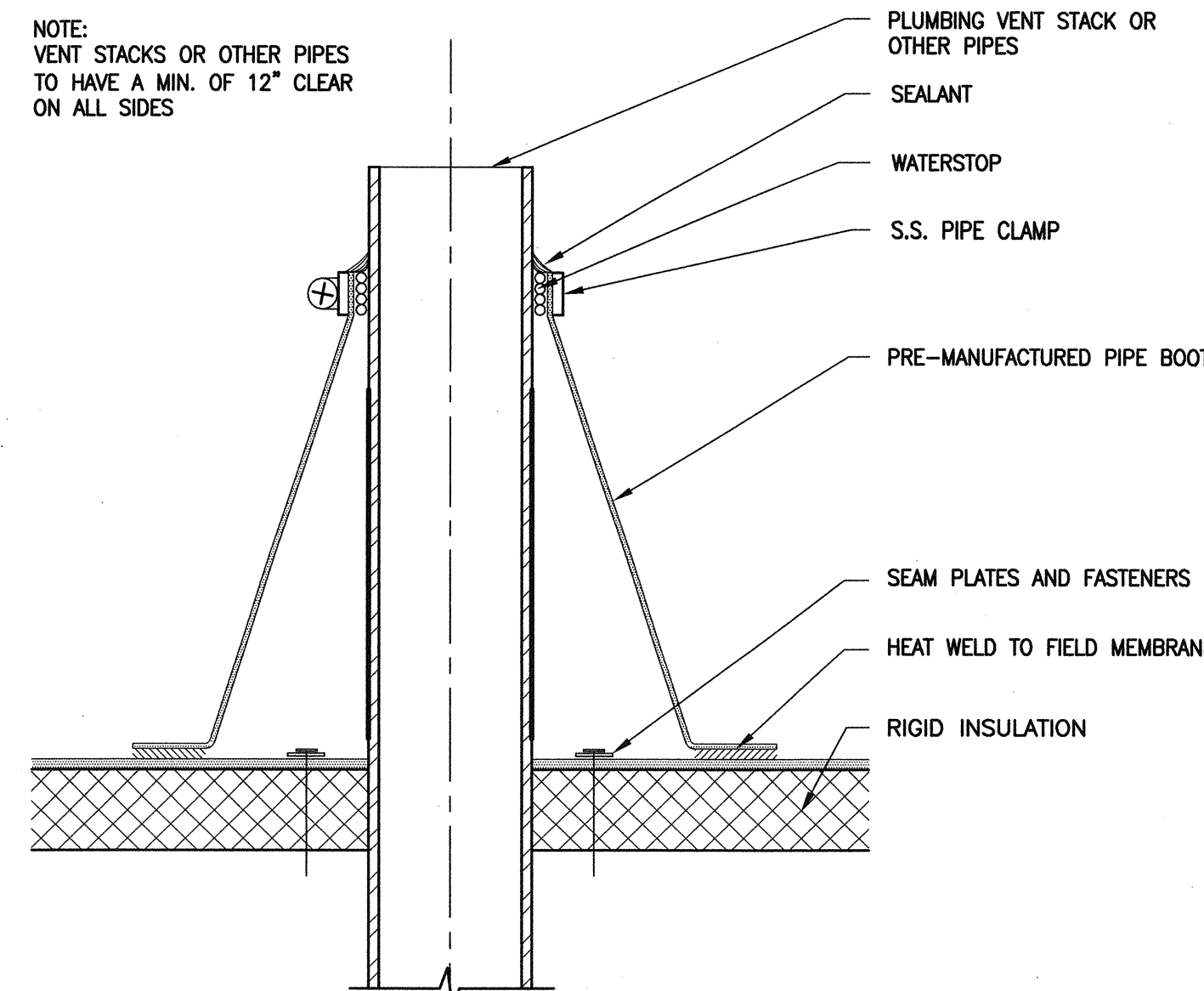
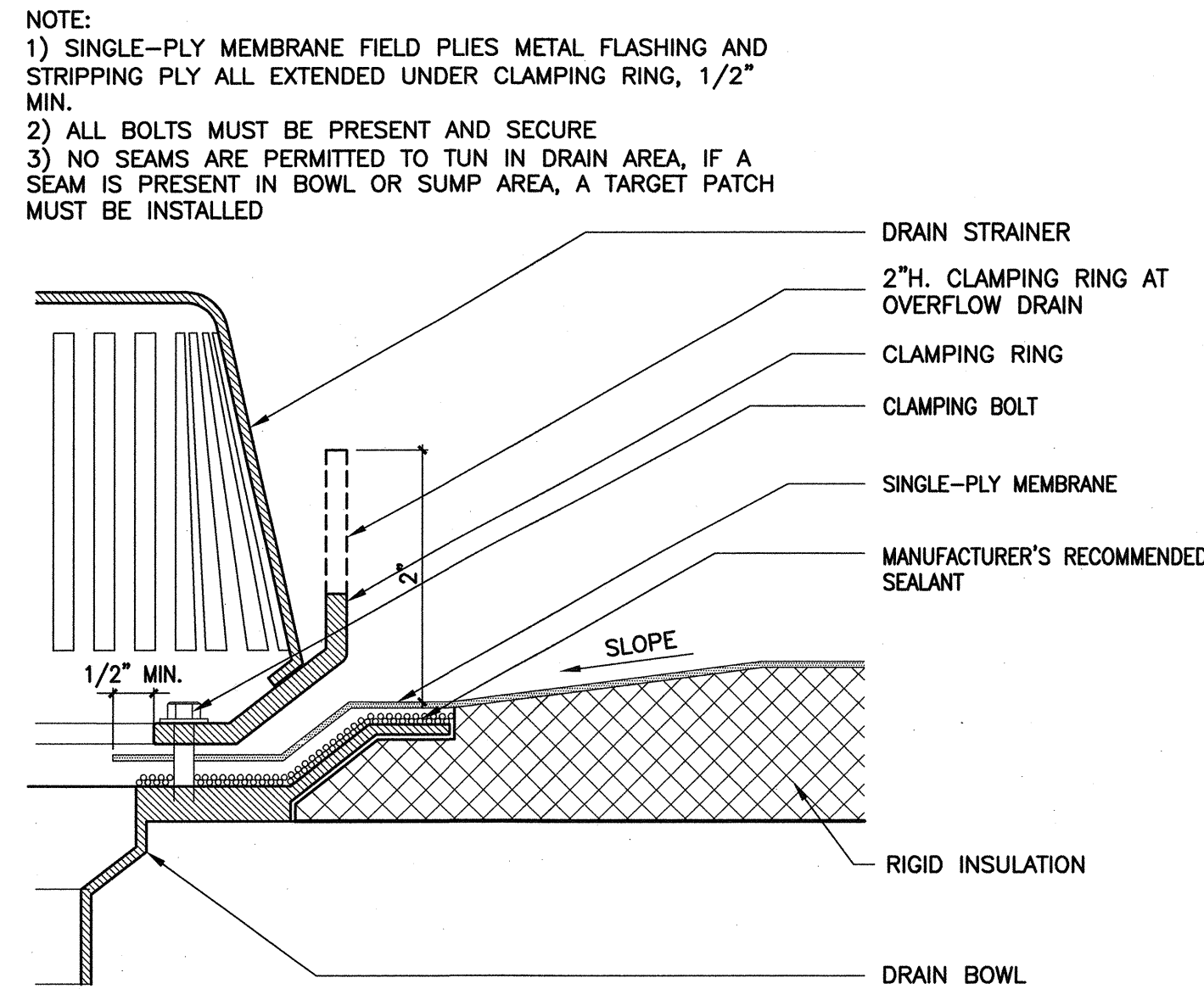
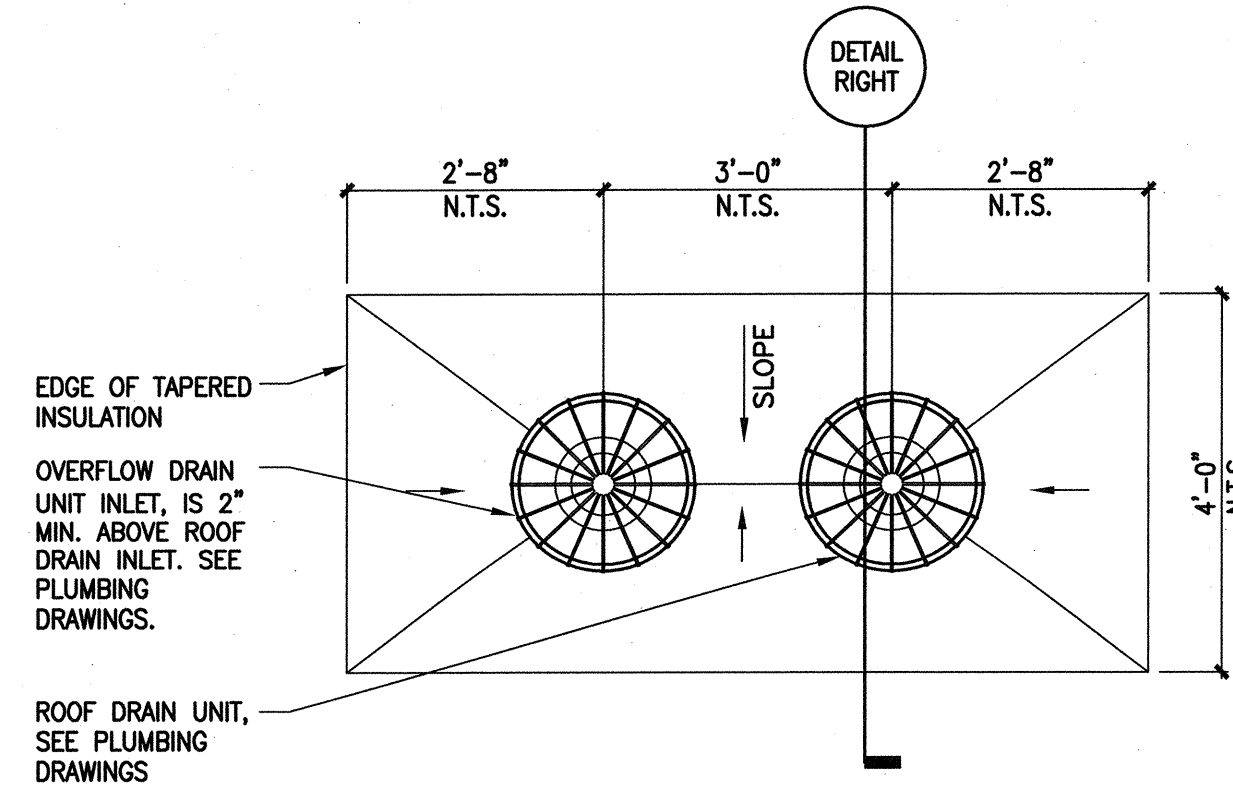


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JUL 21 2016 6 51 03
CITY OF LAS VEGAS

ROOF PLAN

$$3/32'' = 1'-0''$$




DETAIL 4

N.T.S.

D606-04

DETAIL 5

3" = 1'-0"

D606-02

DETAIL 6

3" = 1'-0"

D608-02

DETAIL 7

1/2" = 1'-0"

L420-04



REVISIONS

ARCHITECT

SH ARCHITECTURE

7220 Reg. Drive Suite 216 Las Vegas Nevada 89128

Office 702.243.2222

www.sharchitecture.com

DEPARTMENT OF PUBLIC WORKS

Charleston Heights Community Center

- Renovation -

ROOF DETAILS



05/02/2016

OWNER: CITY OF LAS VEGAS

DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE

LAS VEGAS, NEVADA 89106

PHONE: (702) 229-6535

FAX: (702) 229-6536

TDD: (702) 229-6537

City of Las Vegas, Nevada

FILE JBK SEP 14 2016

DATE 05/02/2016

Does Not Show Plumbing

SCALE Improvements, Make No Change

Without Approval, Date

15.59806.JH

CLV DWG NO 620-10B

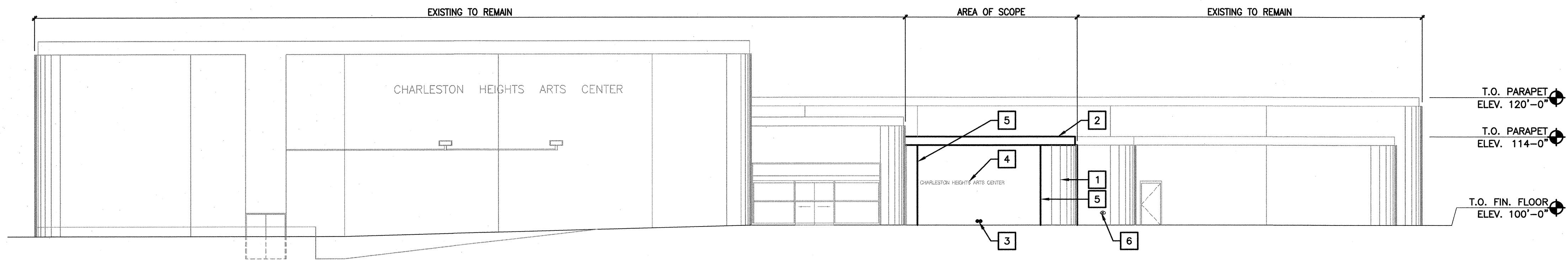
HANGEN NO 59806

SHT NO

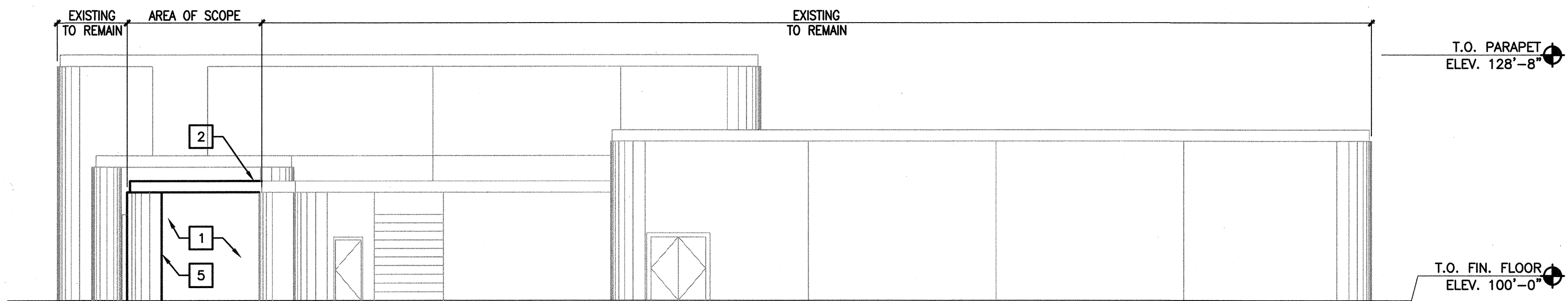
A4.11

KEYNOTES

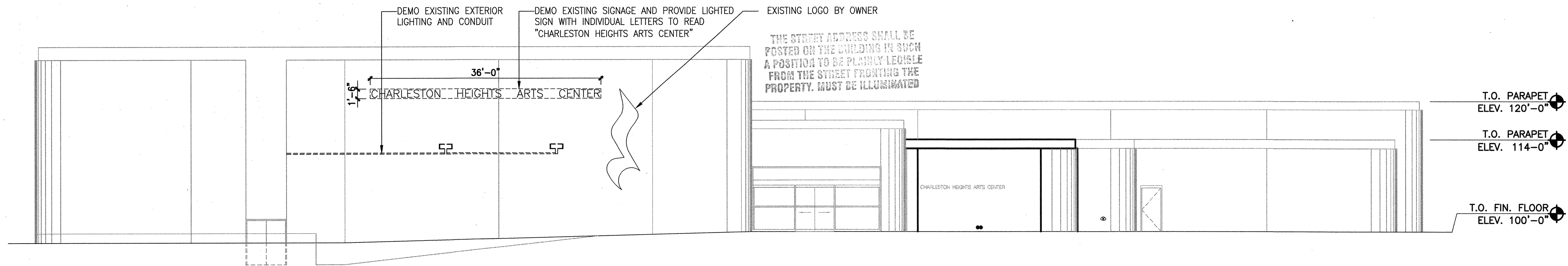
- 1 CEMENT PLASTER EXTERIOR FINISH o/ 8X8X16 CMU BLOCK WALL
- 2 CEMENT PLASTER EXTERIOR FINISH o/ 4X8X16 CMU BLOCK WALL
- 3 NEW ROOF AND OVERFLOW DRAIN OUTLETS
- 4 EXISTING BUILDING SIGNAGE TO BE RELOCATED TO NEW WALL – CONTRACTOR TO PROTECT SIGNAGE DURING CONSTRUCTION
- 5 CEMENT PLASTER CONTROL JOINT
- 6 EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN



EXTERIOR ELEVATION (A)
3/32" = 1'-0"



EXTERIOR ELEVATION (B)
3/32" = 1'-0"



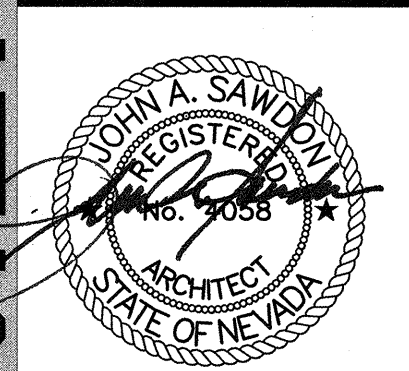
EXTERIOR ELEVATION - AD ALT #1 (C)
3/32" = 1'-0"



REVISIONS

ARCHITECT
SH
ARCHITECTURE
7250 Pecos Drive Suite 216 Las Vegas Nevada 89128
Office 702.363.2222 www.sharchitecture.com

Charleston Heights Community Center
– Renovation –
EXTERIOR ELEVATIONS



05/02/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: 702.337.6535
FAX: 702.337.6536
TDD: 702.337.6536
DRAWN: City of Las Vegas, Nevada

FILE: JBK SEP 14 2016

DATE: 05/02/2016
Does Not Show: Plumbing, Mechanical, Electrical, or Other
SCALE: Improvements. Make No Change
Without Approval. Plan is
15.59806.JH

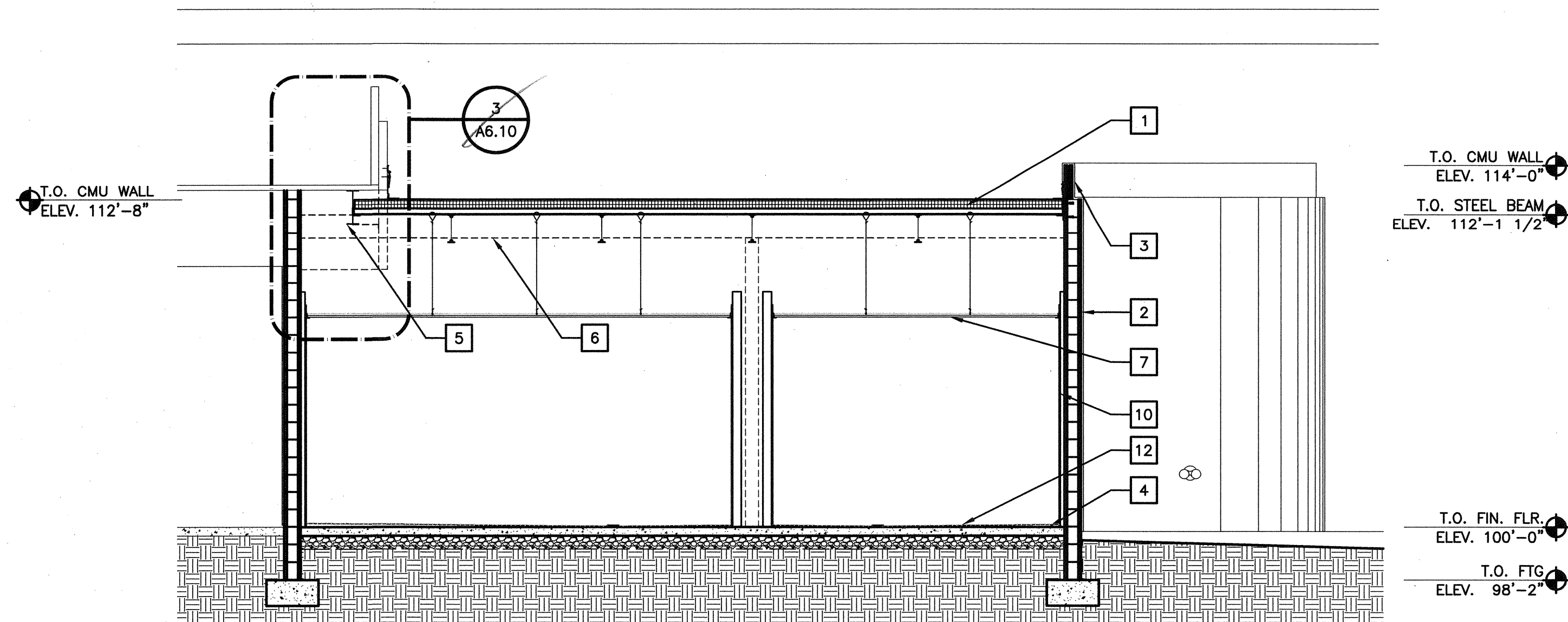
CIV. DWG. NO. 620-10B

HANSEN NO. 59806

SHEET NO. A5.10

DEPARTMENT OF PUBLIC WORKS

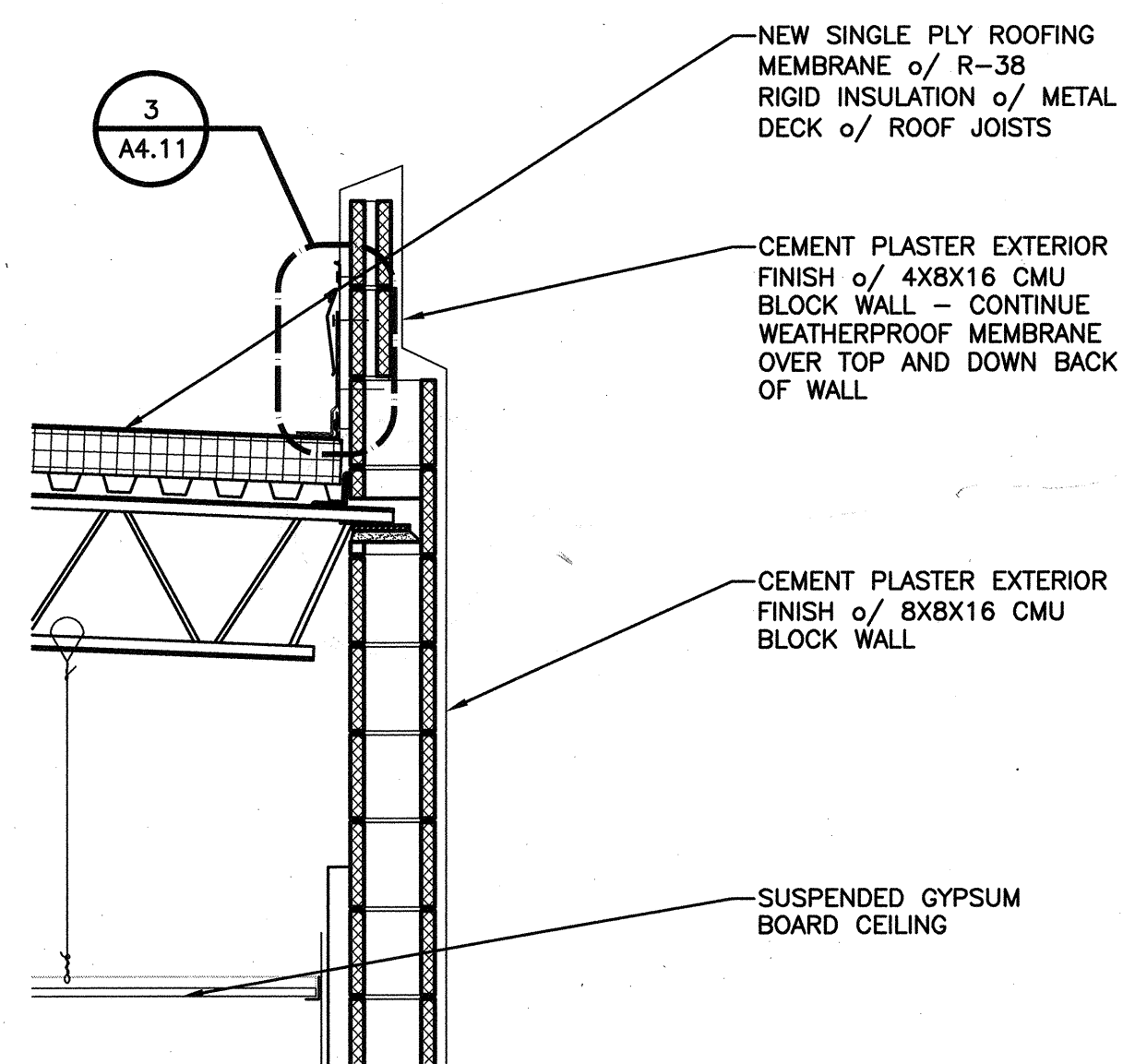
DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL. WHOSE STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS. ANY USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED. COPIES OF THE DRAWINGS AND SPECIFICATIONS REMAINED BY THE CLIENT MAY BE UTILIZED ONLY FOR OCCUPANCY OF THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT. A & C 523780



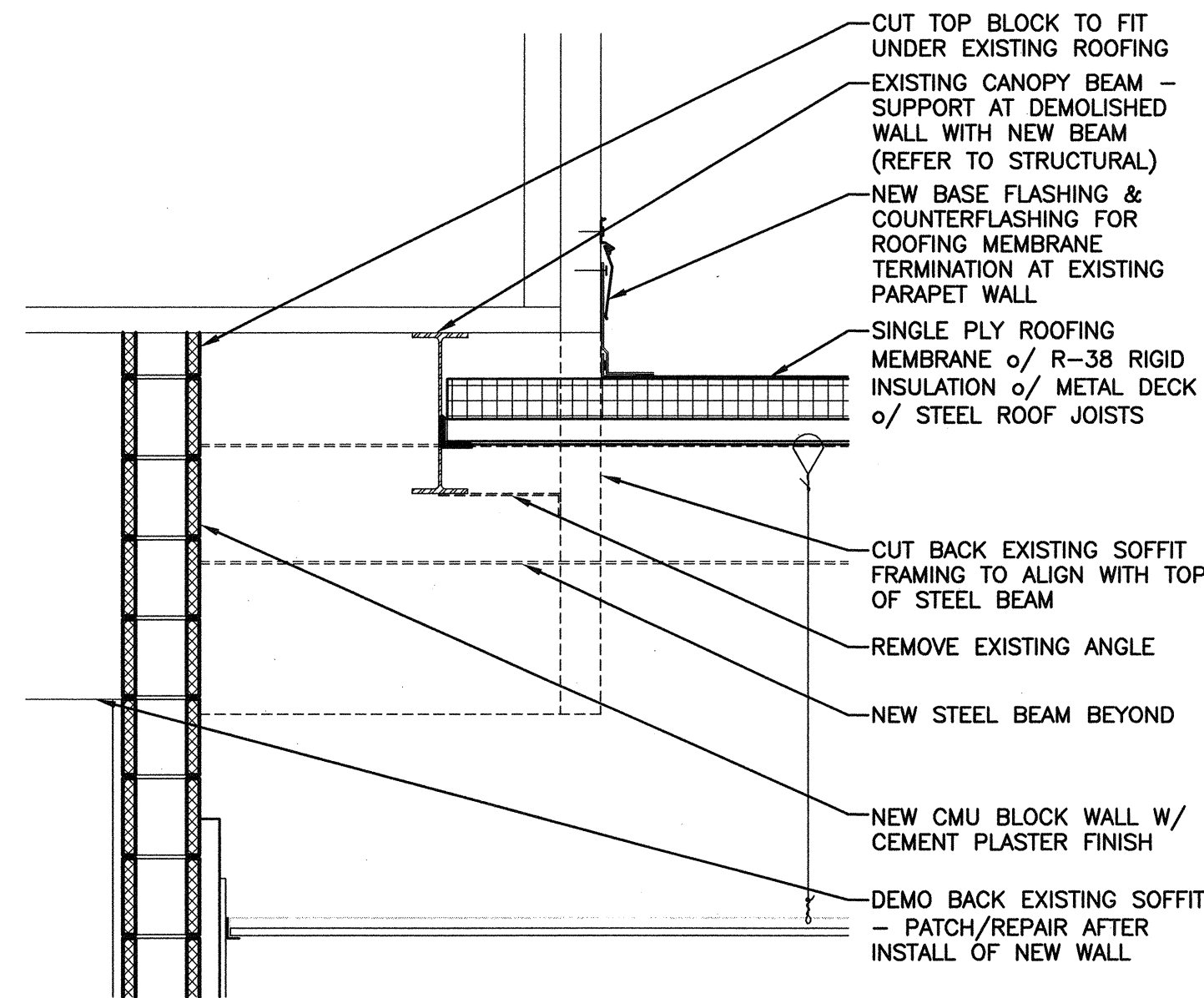
BUILDING SECTION 1
1/4" = 1'-0"

KEYNOTES

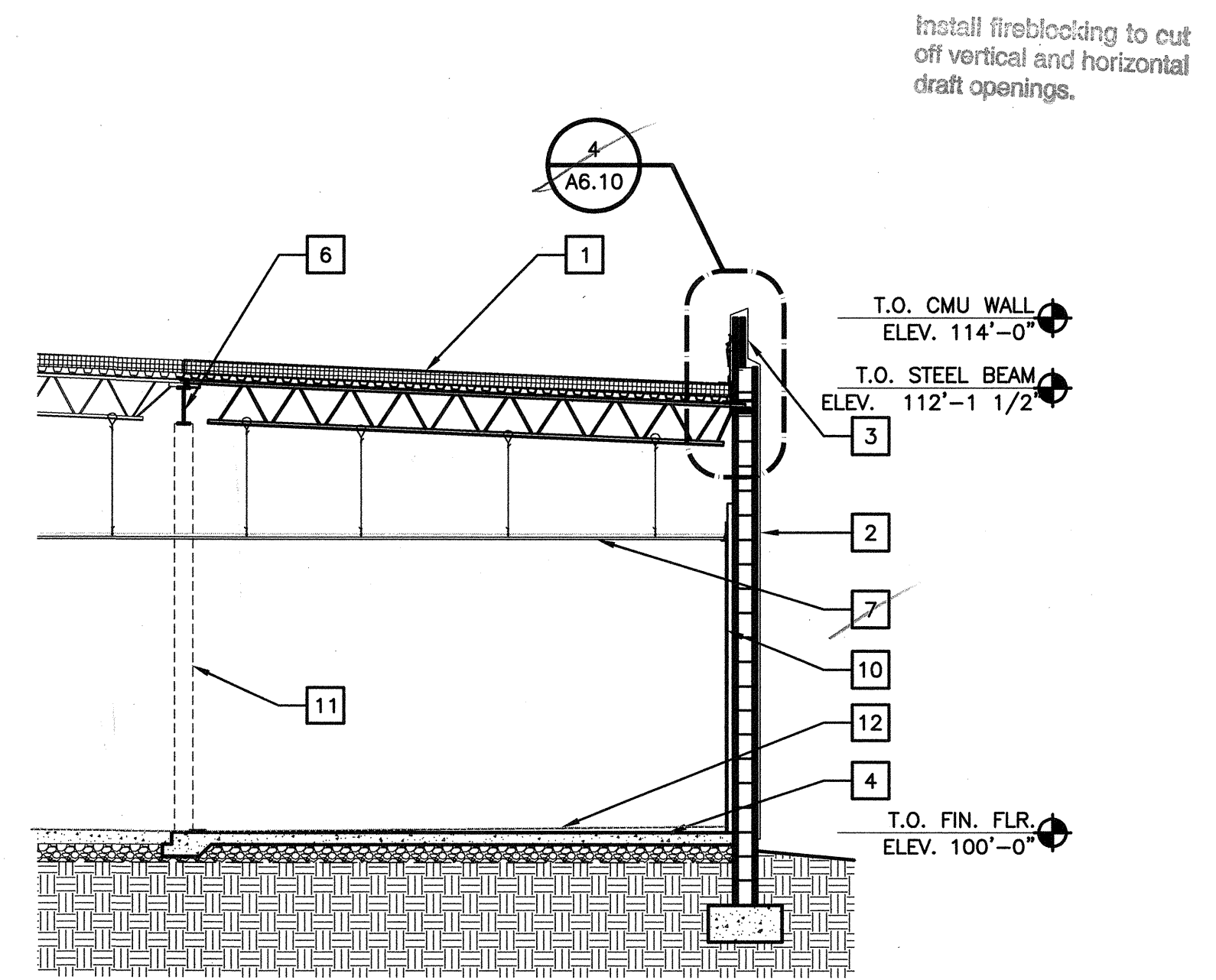
- 1 NEW SINGLE PLY ROOFING MEMBRANE o/ R-38 RIGID INSULATION o/ METAL DECK o/ ROOF JOISTS
- 2 CEMENT PLASTER EXTERIOR FINISH o/ 8X8X16 CMU BLOCK WALL
- 3 CEMENT PLASTER EXTERIOR FINISH o/ 4X8X16 CMU BLOCK WALL
- 4 CONCRETE SLAB ON GRADE o/ 6" GRANULAR FILL o/ VAPOR BARRIER
- 5 EXISTING STEEL BEAM
- 6 NEW STEEL BEAM
- 7 SUSPENDED GYPSUM BOARD CEILING - REFER TO TYPICAL DETAIL SHEET A3.20.
- 8 EXISTING ENTRY HARDSCAPE TO REMAIN - PATCH AS NECESSARY AFTER INSTALL OF NEW WALL
- 9 EXISTING ENTRY CEILING TO REMAIN - PATCH AS NECESSARY AFTER INSTALL OF NEW WALL
- 10 5/8" GYPSUM GLASS BOARD o/ 1-1/2" Z FURRING WITH R-10 RIGID INSULATION
- 11 STRUCTURAL STEEL POST BEYOND
- 12 TILE FLOORING o/ MORTAR BED



PARAPET DETAIL 4
3/4" = 1'-0"



PARAPET DETAIL 3
3/4" = 1'-0"



BUILDING SECTION 2
1/4" = 1'-0"



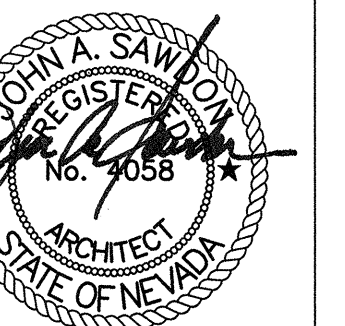
REVISIONS

ARCHITECT

SH
ARCHITECTURE
7250 Pease Drive Suite 216 Las Vegas Nevada 89128
Office: 702.280.2222
www.sh-architecture.com

Charleston Heights Community Center
- Renovation -

BUILDING SECTIONS



05/02/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN: CJT
FILE: PLANS APPROVED
CONSTRUCTION
DATE: 05/02/2016
City of Las Vegas

CHK: SEP 14 2016
59806
Does Not Include Plumbing
Covers Remnants, Make No Change
Without Plan Is

59806

SHT NO

A6.10

DEPARTMENT OF PUBLIC WORKS

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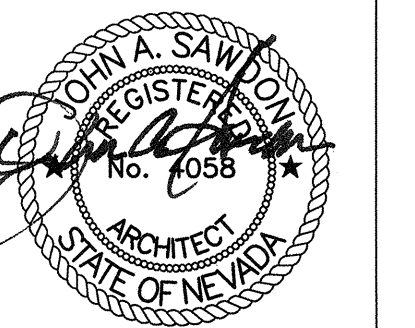
REVISIONS

ARCHITECT

SH
ARCHITECTURE
7280 Peas Drive Suite 216 Las Vegas Nevada 89128
Office 702.267.2222
www.sharchitecture.com

Charleston Heights Community Center
- Renovation -

RESTROOM ELEVATIONS



05/02/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: 702.267.2222
FAX: 702.267.2222
TDD: 702.267.2222

DRAWN: CITY OF LAS VEGAS, NEVADA
CJT

DATE: 05/02/2016
SCALE: 1/8" = 1'-0"

BID NO: 15.59806.JH

CLV DWG NO: 620-10B

HANSEN NO: 59806

SHT NO: A10.30

SHEET NOTES

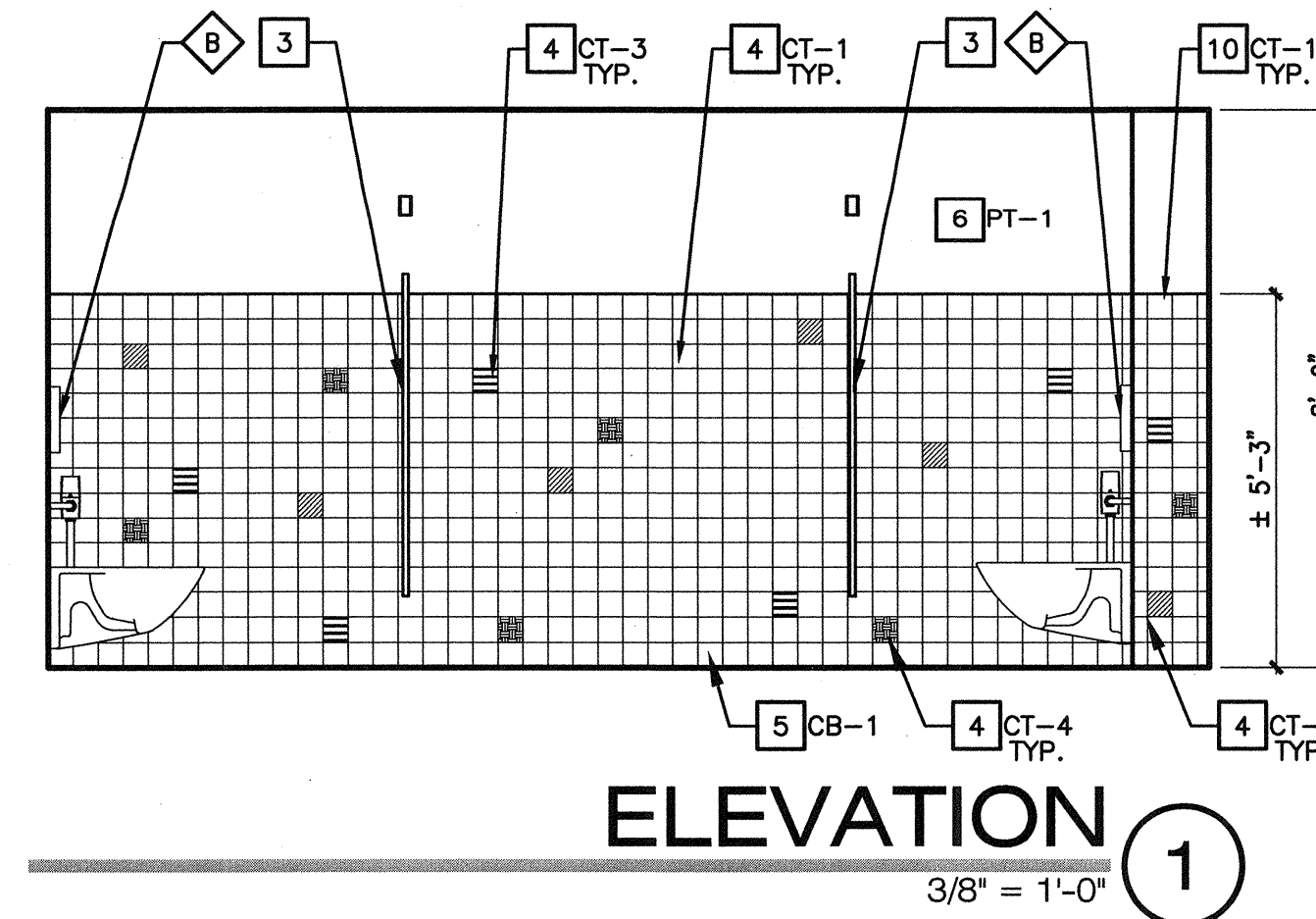
- SEE SHEET G1.20 FOR ACCESSORY DIMENSIONS AND ADA COMPLIANCE
- PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES - TYPICAL FOR MOUNTING AND WITH ADEQUATE SUPPORT TO MEET CODE REQUIREMENTS.
- INSULATE ALL LAVATORY AND HAND SINK EXPOSED DRAIN AND/OR HOT WATER PIPING BELOW FIXTURES PER ADAAG
- REFER TO SHEET A2.11 FOR FINISHES AND ACCESSORY SCHEDULE.

KEY NOTES

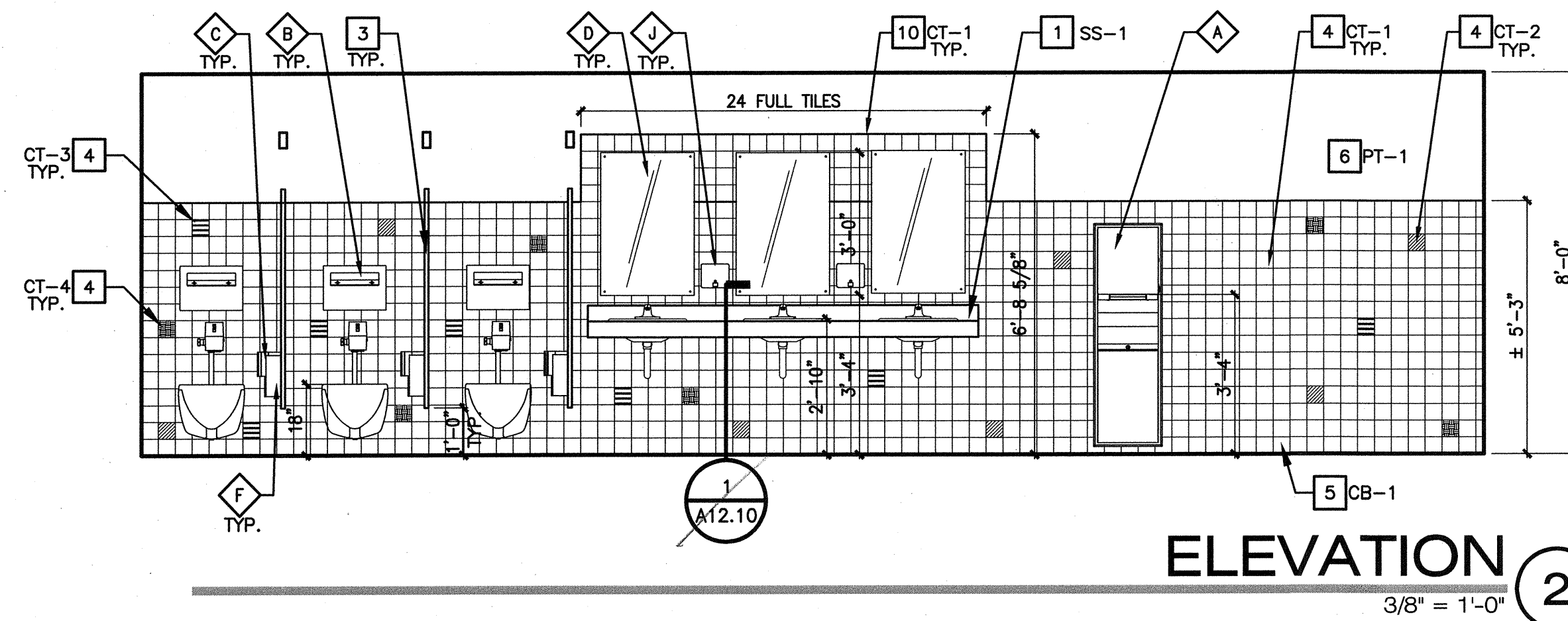
- SOLID SURFACE COUNTERTOP WITH 4"H BACKSPLASH, SS-1.
- INSTALL NEW MIRROR WITH LIGHT/POWER SUPPORT FRAME.
- TOILET PARTITION, TP-1. PROVIDE BACKING FOR ATTACHMENT PER MANUFACTURER'S REQUIREMENTS.
- WALL TILE
- TILE COVE BASE, SEE DETAIL 4/A12-10.
- GYP. BD, PAINTED
- INSTALL NEW HI-LO DRINKING FOUNTAIN.
- EXISTING BASE TO REMAIN.
- EXISTING GYP. BD. TO REMAIN.
- BULLNOSE TILE, SEE DETAIL 5/A12-10.

INSTALL TOILET FACILITIES
FOR THE DISABLED
SEE I.B.C., CHAPTER 11

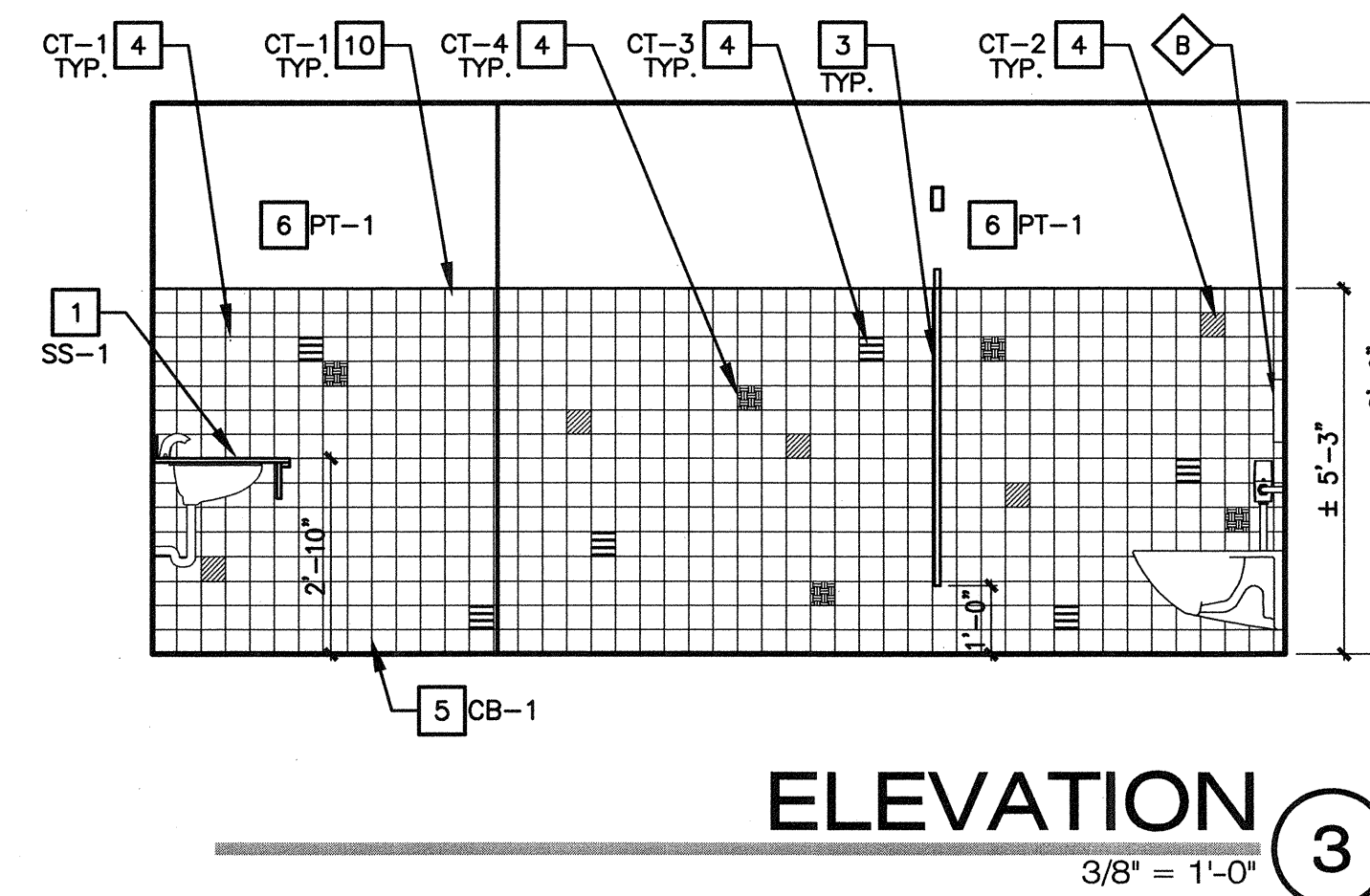
THE FLOOR AND WALLS TO 4 FEET IN HEIGHT
IN TOILET AREA SHALL HAVE A SMOOTH
HARD NONABSORBENT SURFACE OF CEMENT, CERAMIC
TILE, OR EQUAL APPROVED BY THE APPEALS BOARD



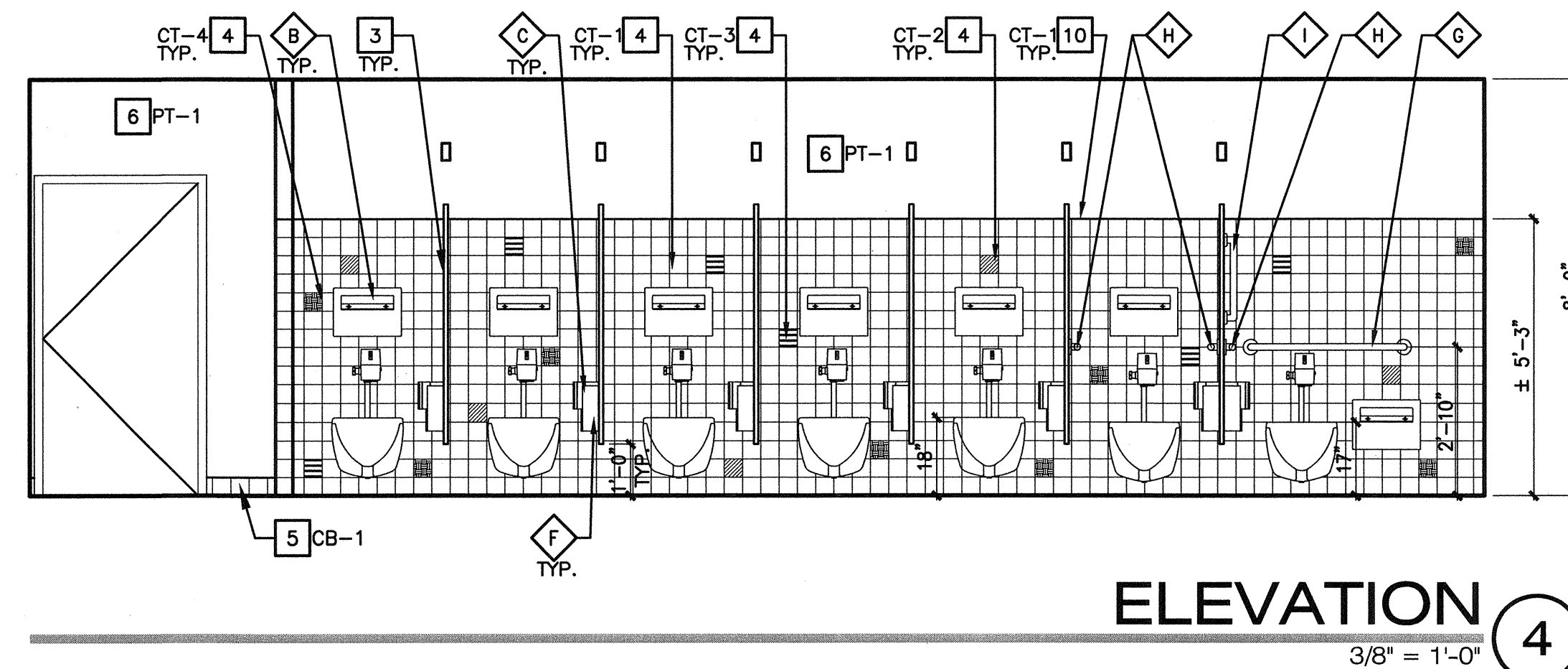
ELEVATION 1
3/8" = 1'-0"



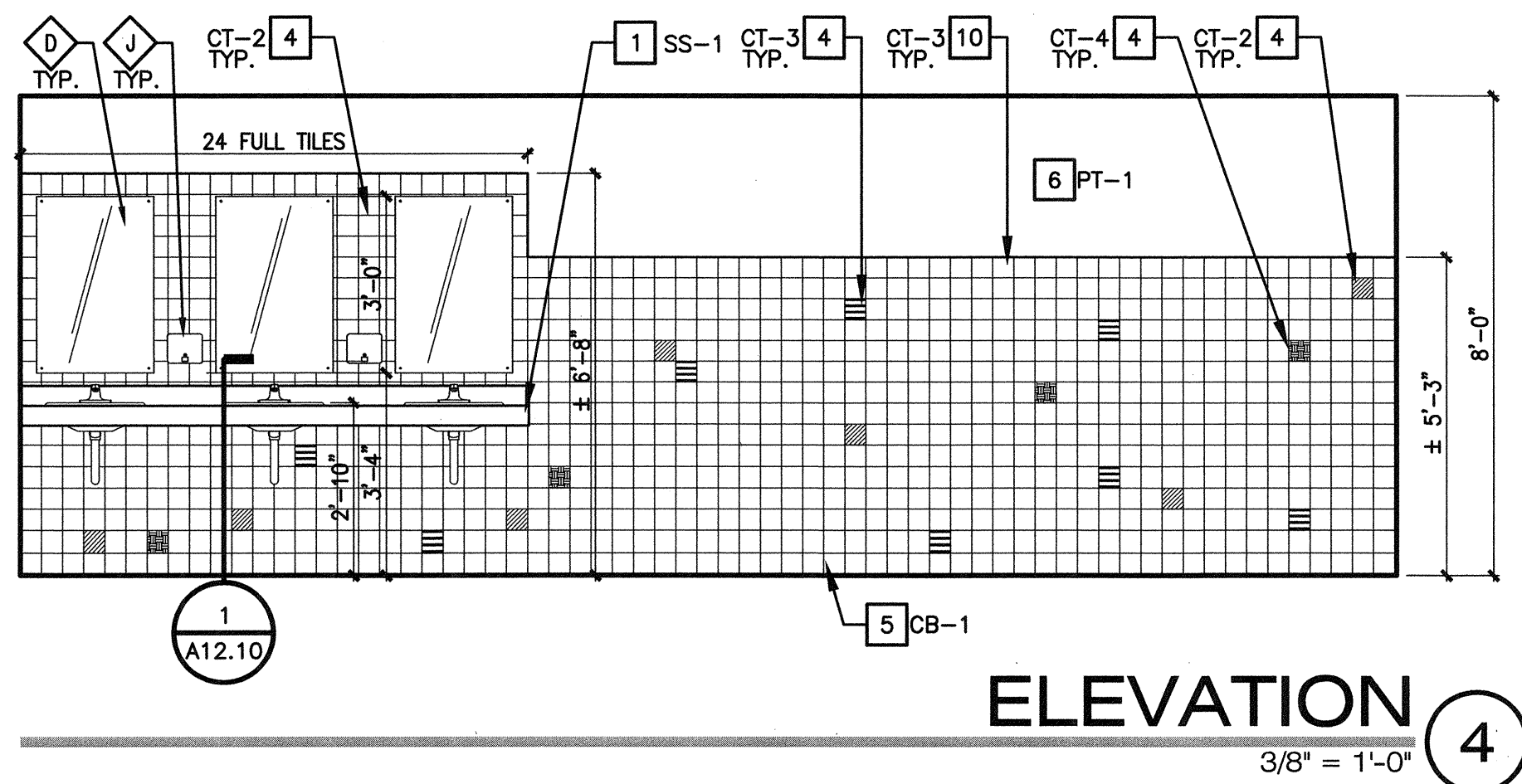
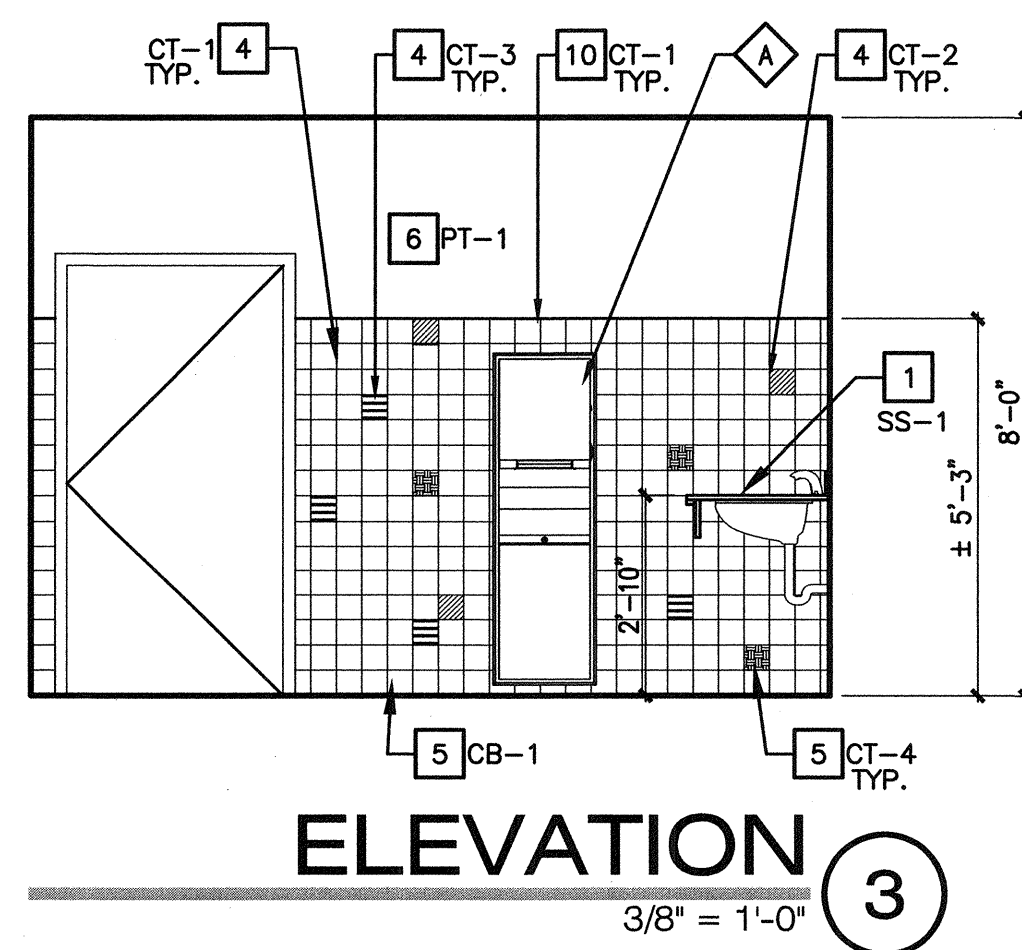
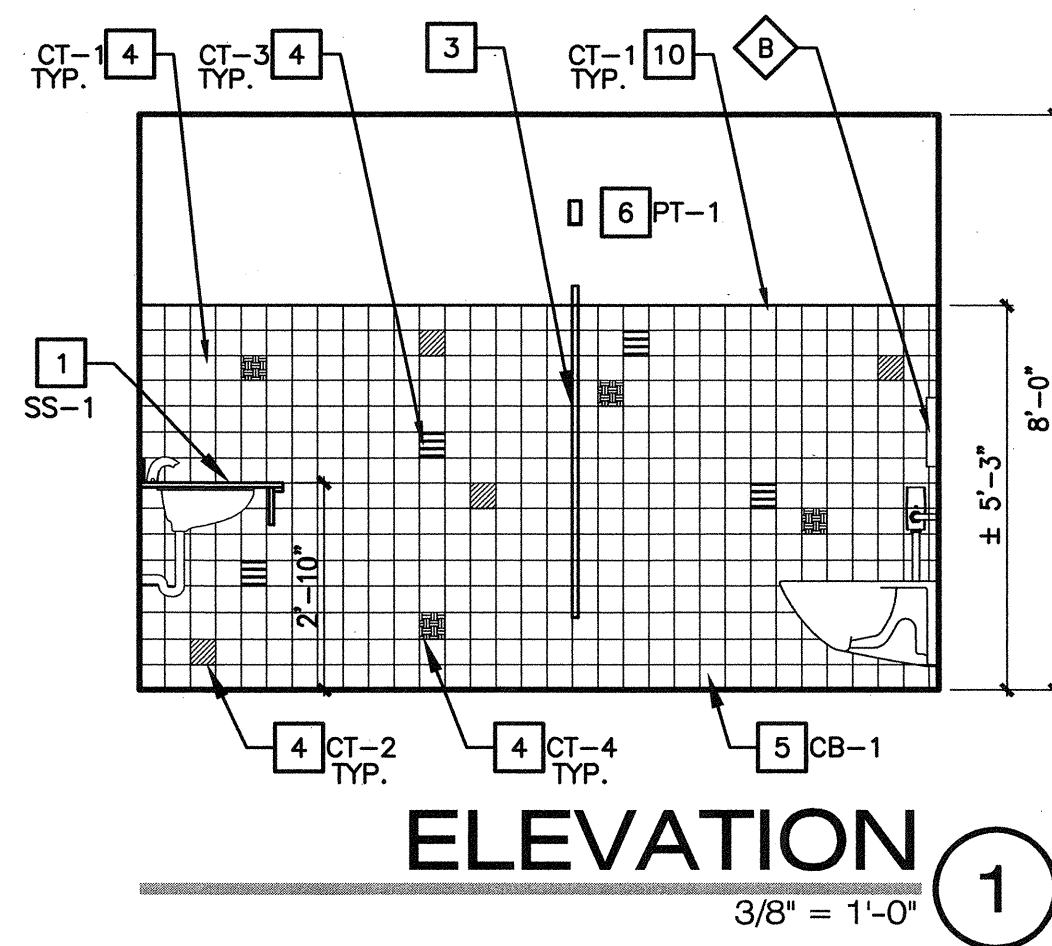
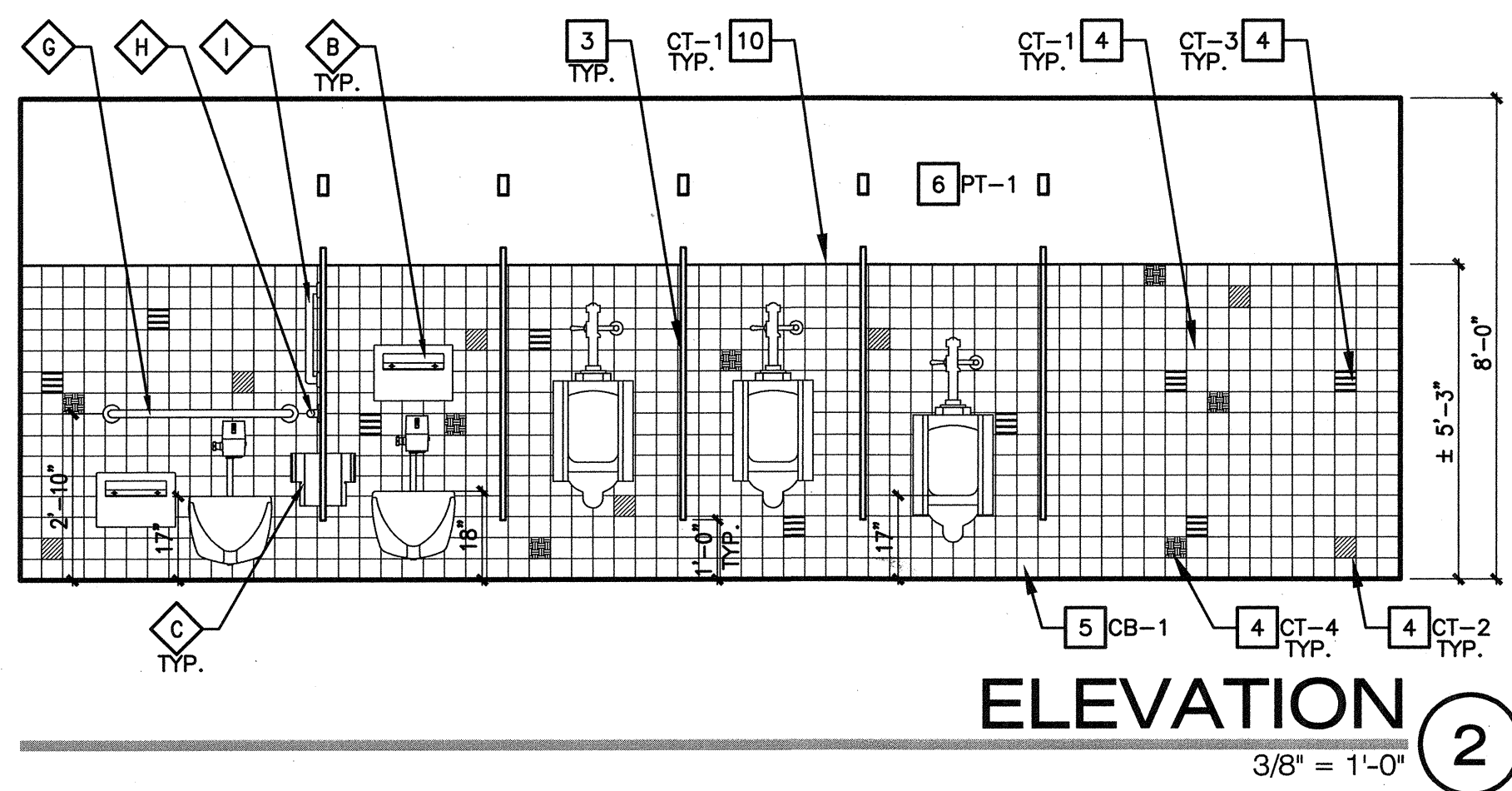
ELEVATION 2
3/8" = 1'-0"



ELEVATION 3
3/8" = 1'-0"



ELEVATION 4
3/8" = 1'-0"



INSTALL TOILET FACILITIES
FOR THE DISABLED
SEE I.B.C., CHAPTER 11

THE FLOOR AND WALLS TO 4 FEET IN HEIGHT
IN TOILET AREA SHALL HAVE A SMOOTH
HARD NONABSORBENT SURFACE OF CEMENT, CERAMIC
TILE, OR EQUAL APPROVED BY THE APPEALS BOARD

SHEET NOTES

- SEE SHEET G1.20 FOR ACCESSORY DIMENSIONS AND ADA COMPLIANCE
- PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES - TYPICAL FOR MOUNTING AND WITH ADEQUATE SUPPORT TO MEET CODE REQUIREMENTS.
- INSULATE ALL LAVATORY AND HAND SINK EXPOSED DRAIN AND/OR HOT WATER PIPING BELOW FIXTURES PER ADAAG
- REFER TO SHEET A2.11 FOR FINISHES AND ACCESSORY SCHEDULE.

KEY NOTES

- SOLID SURFACE COUNTERTOP WITH 4"H BACKSPLASH, SS-1.
- INSTALL NEW MIRROR WITH LIGHT/POWER SUPPORT FRAME.
- TOILET PARTITION, TP-1. PROVIDE BACKING FOR ATTACHMENT PER MANUFACTURER'S REQUIREMENTS.
- WALL TILE
- TILE COVE BASE, SEE DETAIL 4/A12.10.
- GYP. BD, PAINTED
- INSTALL NEW HI-LO DRINKING FOUNTAIN.
- EXISTING BASE TO REMAIN.
- EXISTING GYP. BD. TO REMAIN.
- BULLNOSE TILE, SEE DETAIL 5/A12.10



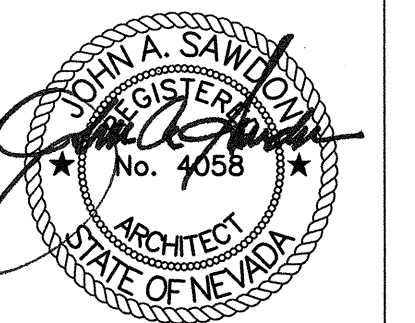
REVISIONS

ARCHITECT

SH
ARCHITECTURE
7280 Peck Drive Suite 216 Las Vegas Nevada 89128
Office 702.583.2222 www.sharchitecture.com

Charleston Heights Community Center
- Renovation -

RESTROOM ELEVATIONS



05/02/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: 702.261.4535
FAX: 702.261.4535
TDD: 702.261.4535

DRAWN BY: J. SANDOZ
CHECKED BY: J. SANDOZ
DATE: SEP 14 2016

Does Not Include Electrical, Plumbing,
Mechanical, or Fire Protection Work.
Without Approval, Plan is
Not a Permit to Violate Any Ordinance.

BID NO 15.59806.JH

CLV DWG NO 620-10B

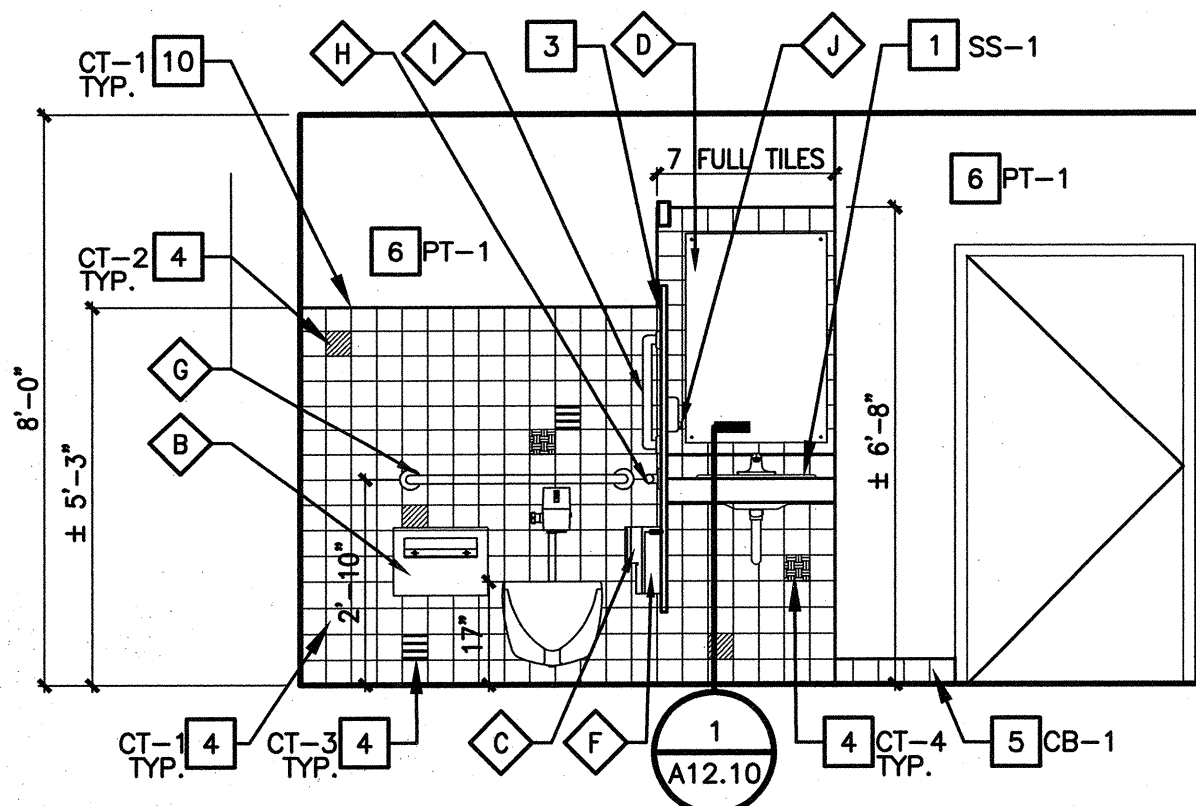
HANSEN NO 59806

SHEET NO

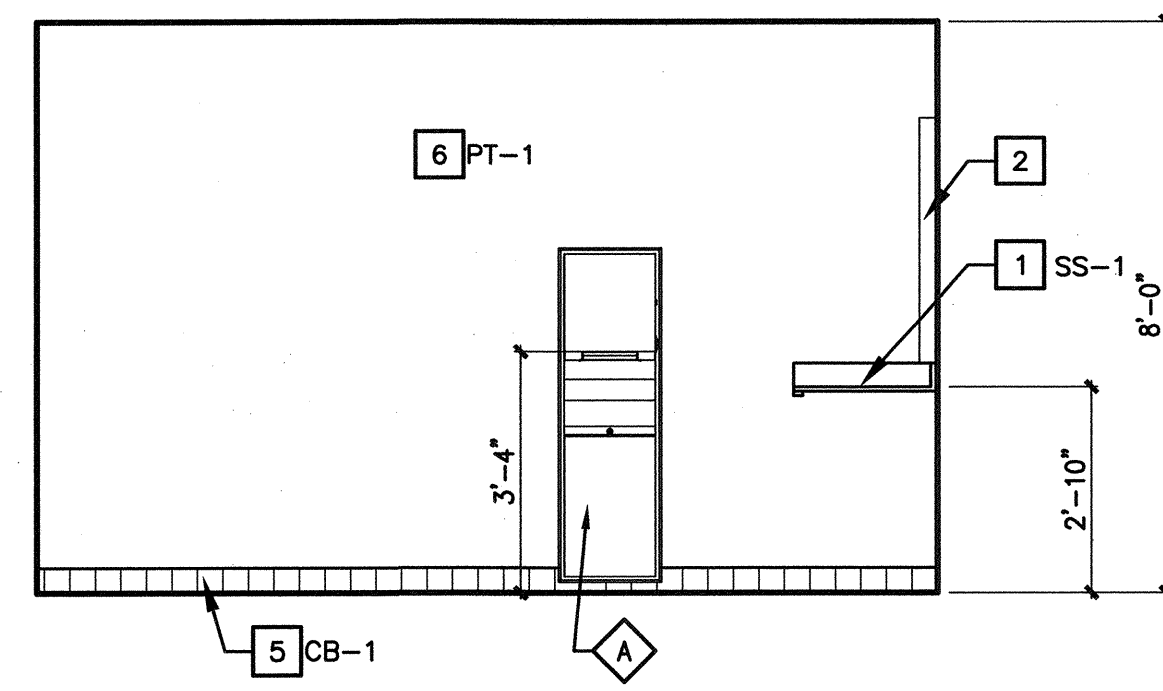
A10.31

DEPARTMENT OF PUBLIC WORKS

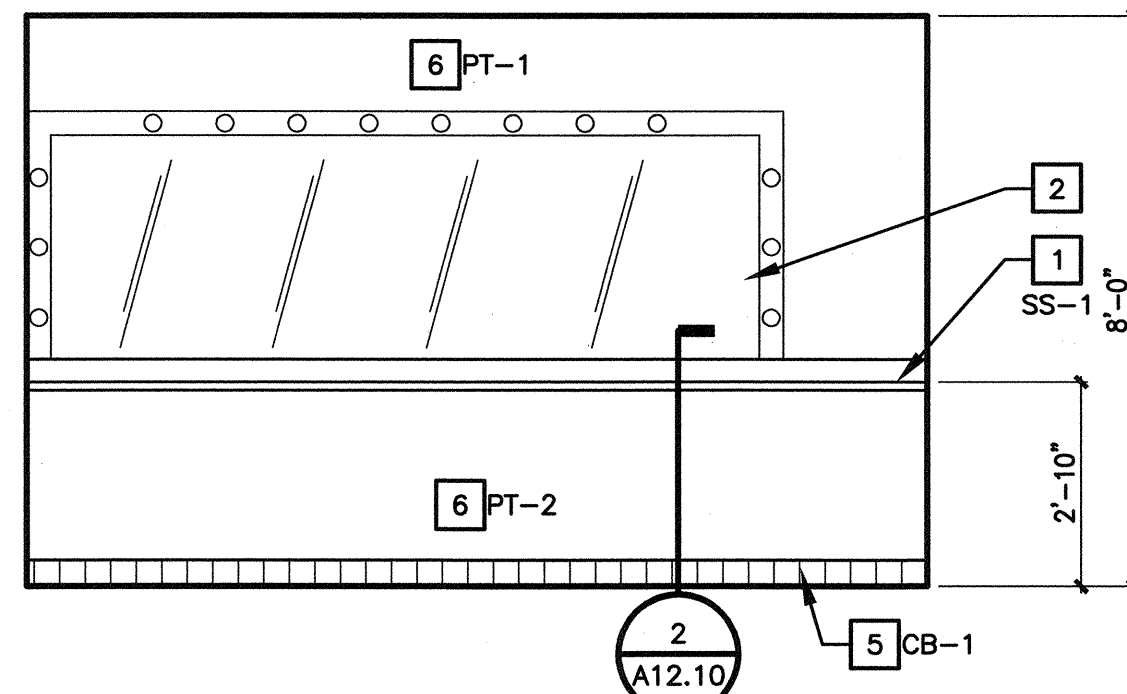
DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL. WHOSE STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE CLIENT MAY BE UTILIZED ONLY FOR THE CONSTRUCTION OF ANY OTHER PROJECT. IT IS THE RESPONSIBILITY OF THE CLIENT TO OBTAIN THE NECESSARY PERMISSIONS FROM THE DESIGN PROFESSIONAL FOR ANY OTHER USE.



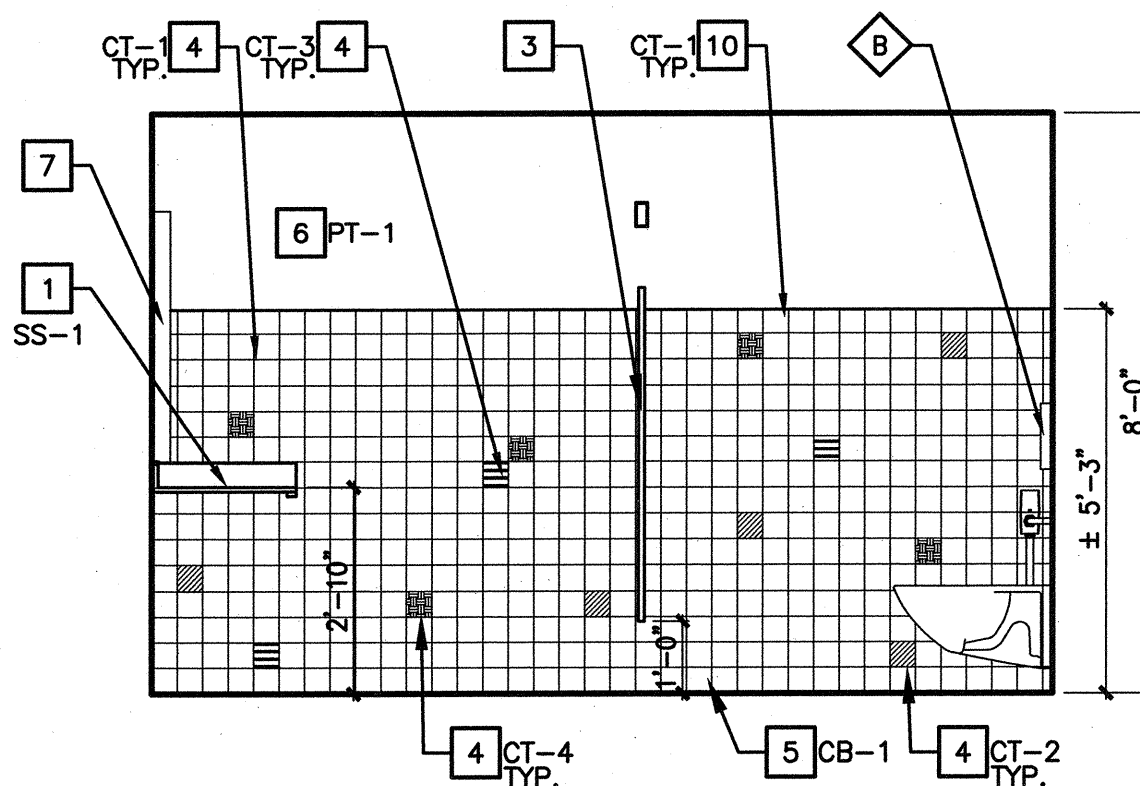
ELEVATION - ROOM 127 (1)
3/8" = 1'-0"



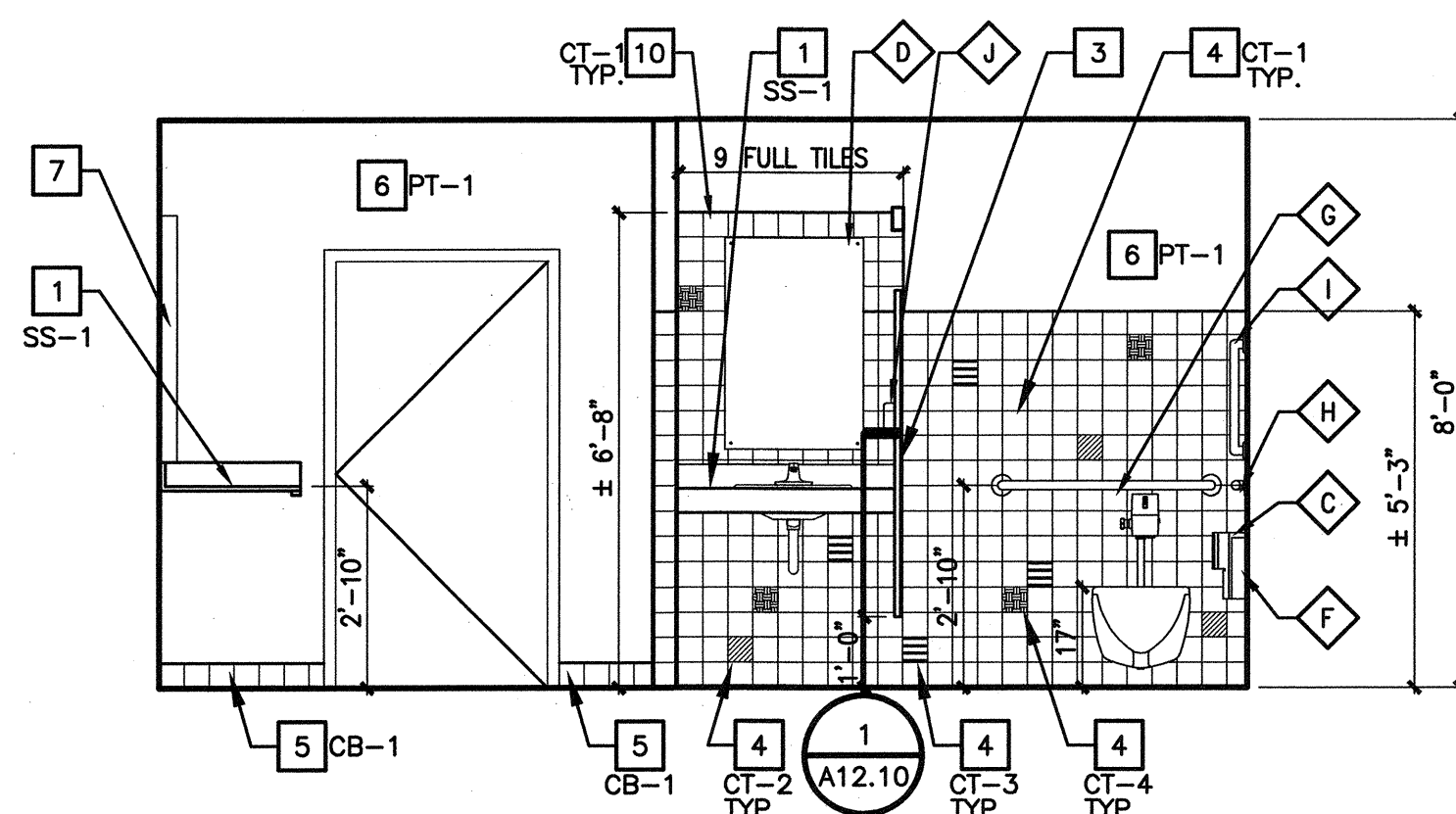
ELEVATION - ROOM 127 (2)
3/8" = 1'-0"



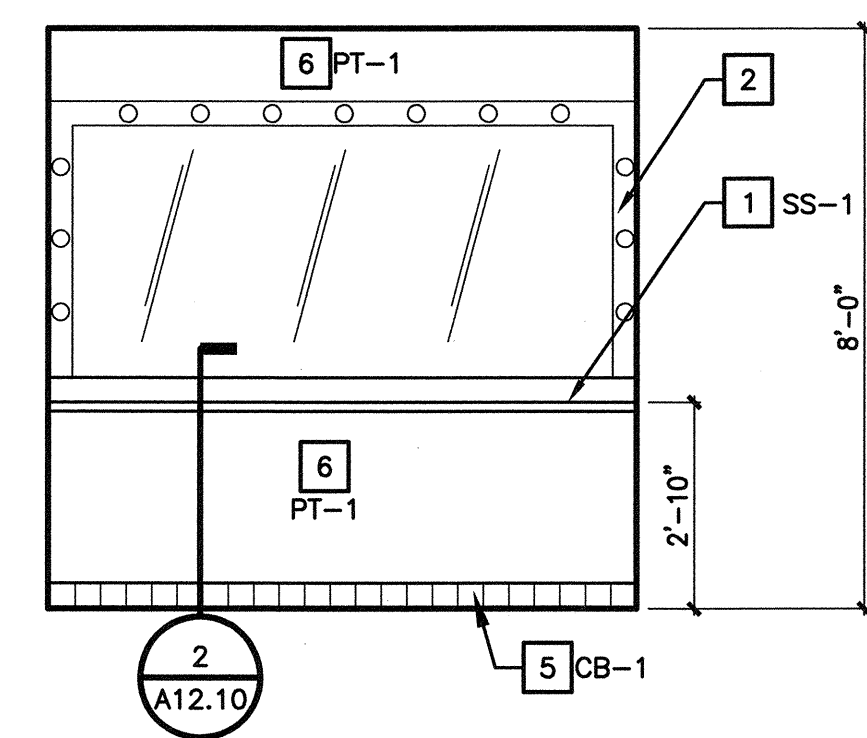
ELEVATION - ROOM 127 (3)
3/8" = 1'-0"



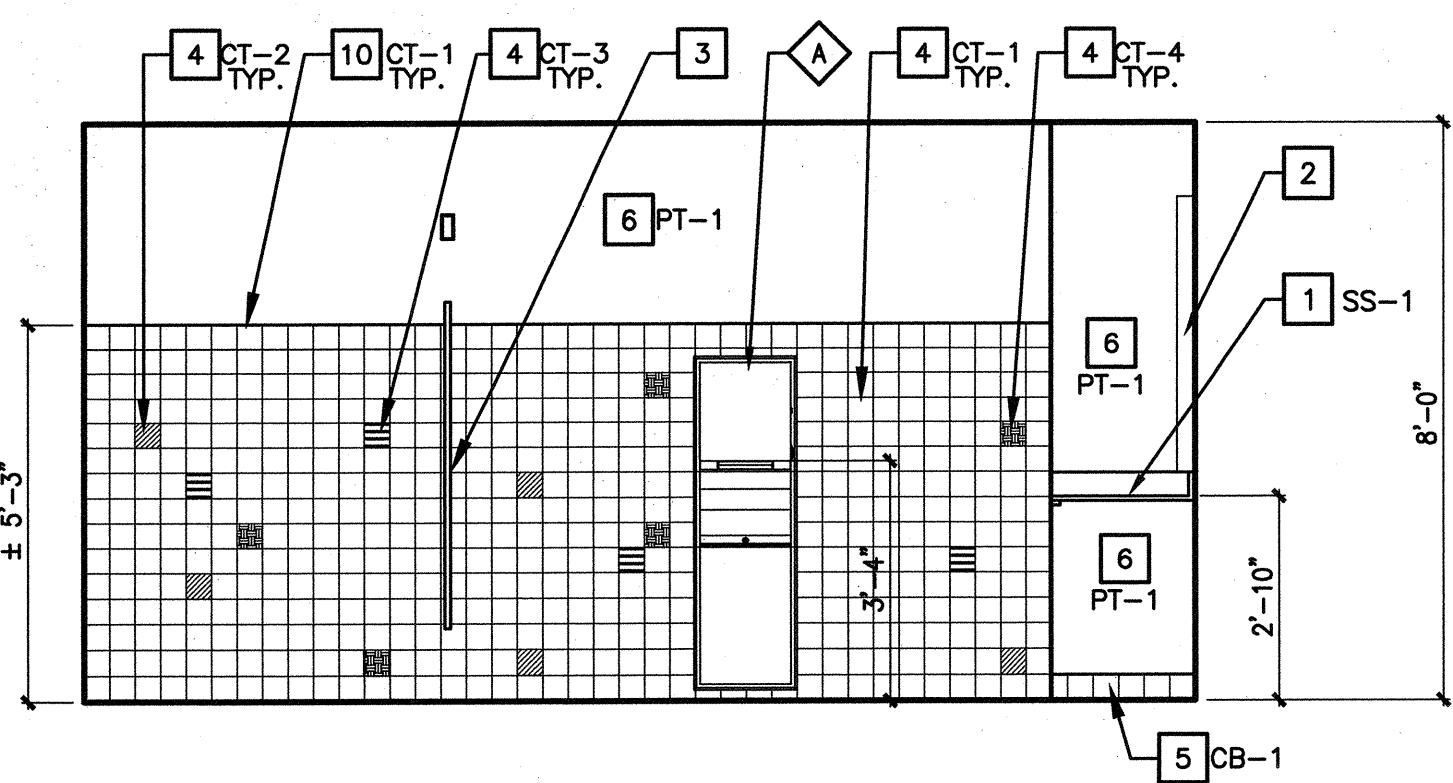
ELEVATION - ROOM 127 (4)
3/8" = 1'-0"



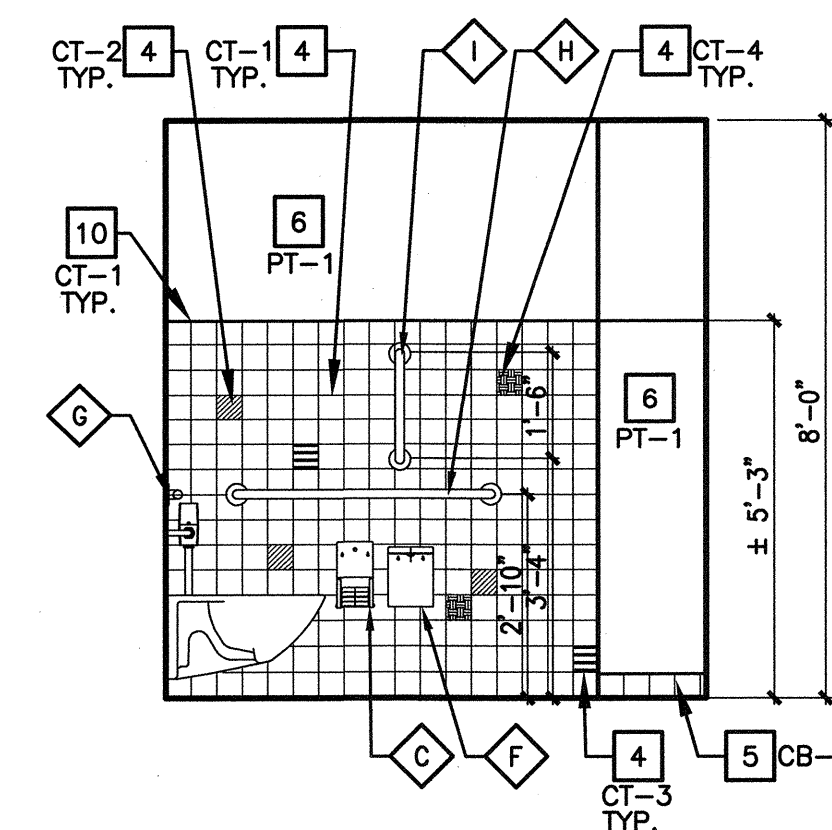
ELEVATION - ROOM 129 (5)
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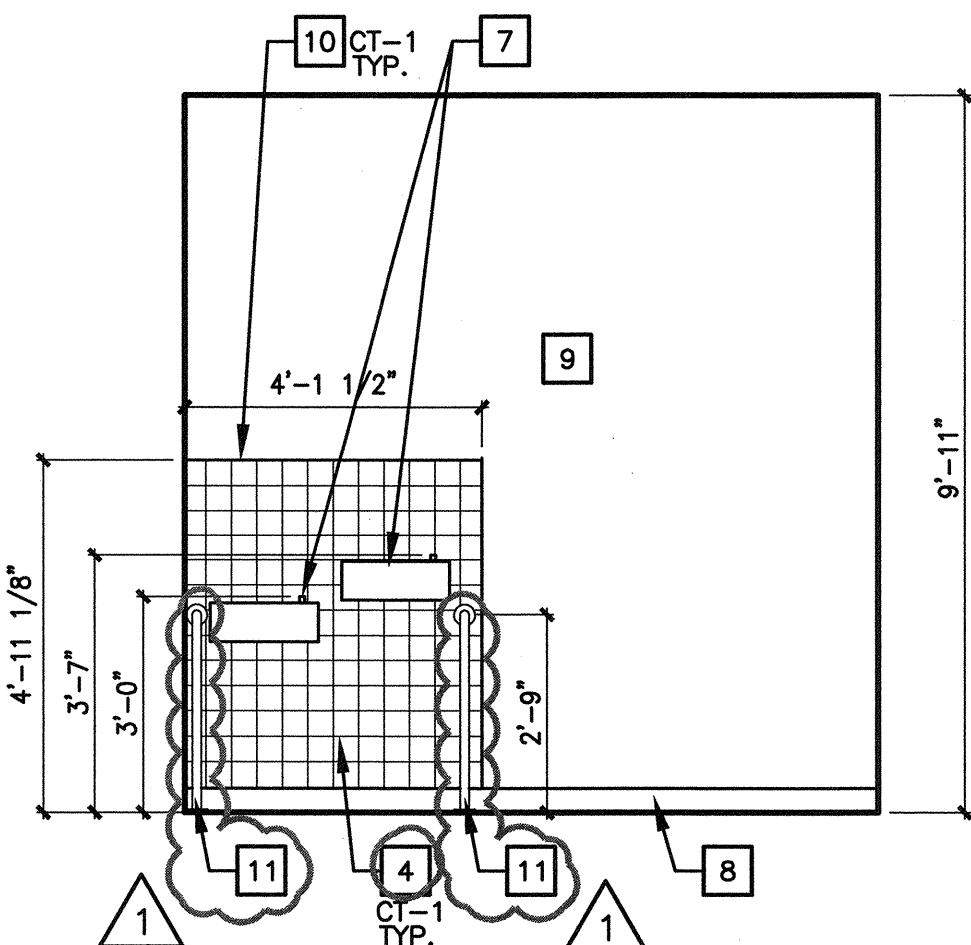
ELEVATION - ROOM 129 (6)
3/8" = 1'-0"



ELEVATION - ROOM 129 (7)
3/8" = 1'-0"



ELEVATION - ROOM 129 (8)
3/8" = 1'-0"



ELEVATION - ROOM 101 (9)
3/8" = 1'-0"

SHEET NOTES

- SEE SHEET G1.20 FOR ACCESSORY DIMENSIONS AND ADA COMPLIANCE
- PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES - TYPICAL FOR MOUNTING AND WITH ADEQUATE SUPPORT TO MEET CODE REQUIREMENTS.
- INSULATE ALL LAVATORY AND HAND SINK EXPOSED DRAIN AND/OR HOT WATER PIPING BELOW FIXTURES PER ADAAG
- REFER TO SHEET A2.11 FOR FINISHES AND ACCESSORY SCHEDULE.

KEY NOTES

- SOLID SURFACE COUNTERTOP WITH 4"H BACKSPLASH, SS-1.
- INSTALL NEW MIRROR WITH LIGHT/POWER SUPPORT FRAME.
- TOILET PARTITION, TP-1, PROVIDE BACKING FOR ATTACHMENT PER MANUFACTURER'S REQUIREMENTS.
- WALL TILE
- TILE COVE BASE, SEE DETAIL 4/A12.10.
- GYP. BD, PAINTED
- INSTALL NEW HI-LO DRINKING FOUNTAIN.
- EXISTING BASE TO REMAIN.
- EXISTING GYP. BD. TO REMAIN.
- BULLNOSE TILE, SEE DETAIL 5/A12.10
- STAINLESS STEEL WALL TO FLOOR DRINKING FOUNTAIN RAIL, SEE DETAIL 6/A12.10

INSTALL TOILET FACILITIES
FOR THE DISABLED
SEE I.B.C., CHAPTER 11

THE FLOOR AND WALLS TO 4 FEET IN HEIGHT
IN TOILET AREA SHALL HAVE A SMOOTH
HARD NONABSORBENT SURFACE OF CEMENT, CERAMIC
TILE, OR EQUAL APPROVED BY THE APPEALS BOARD

RECEIVED

JUL 21 2016 65103
CITY OF LAS VEGAS



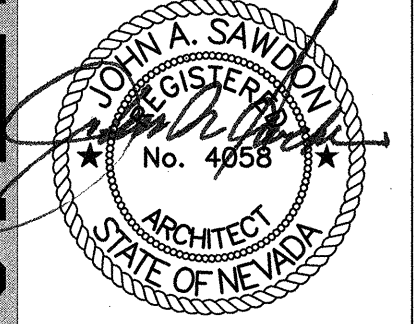
REVISIONS
7/18/16 PLAN COMMENTS

ARCHITECT

SH
ARCHITECTURE
7250 Peck Drive Suite 216 Las Vegas, Nevada 89128
Office: 702.385.2222
www.sh-architecture.com

Charleston Heights Community Center
- Renovation -

RESTROOM ELEVATIONS



07/18/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 385-6335
FAX: (702) 385-6346
TDD: (702) 385-6346

DRAWN: City of Las Vegas, Nevada
CJT

FILE: JKB SEP 14 2016

DATE: Does Not Include Electrical, Plumbing, Mechanical, or Off-Site Improvements

SCALE: Without Approval, Plan is Not a Permit to Violate Any Ordinance

SHEET NO: 15.59806.JH

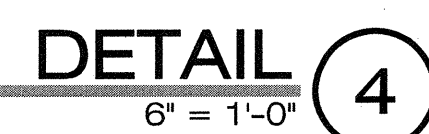
CLV DWG NO: 620-10B

HANSEN NO: 59806

SHEET NO: A10.32

DEPARTMENT OF PUBLIC WORKS

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ARCHITECT

SH ARCHITECTURE
2250 Peak Drive Suite 216 Las Vegas Nevada 89111
Office 702.363.2222 www.sh-architecture.com

Charleston Heights Community Center
- Renovation -

DETAILS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

RAWN CJT
FILE PLANS APPROVED
CONSTRUCTION
DATE Building & Safety Dept.
City of Las Vegas Nevada
05/02/2016
CALE
JBK SEP 14 2016

Does Not Include Electrical, Plumbing,
Mechanical Structural or Off-Site
Improvements. Make No Change
Without Approval. Plan is

59806

A12.10

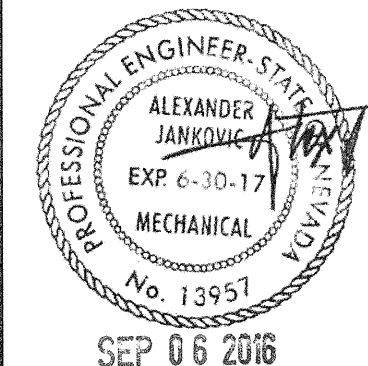
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CITY OF LAS VEGAS

59806



REVISIONS
3 GENERAL REVISION

ARCHITECT



Charleston Heights Community Center

- Renovation -

COVER SHEET



jba Las Vegas
5155 W. Pecos Ln
Las Vegas, NV 89118
p 702.382.9200

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-6846
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DRAWN	JU
FILE	
DATE	05/02/2016
SCALE	
BID NO	15.59806.JH
CLV DWG NO	620-10B
HANSEN NO	59806
SHT NO	

MO.00

SHEET INDEX

ISSUE			
2016-09-06	GENERAL REVISION		
2016-05-02	ISSUED FOR PERMIT		
		SHEET NUMBER	SHEET DESCRIPTION
		M0.00	COVER SHEET
		M0.01	GENERAL NOTES AND SCHEDULES
		M0.02	SCHEDULES
		M0.03	VENTILATION COMPLIANCE
		M0.04	ENERGY COMPLIANCE
		MD1.10	DEMOLITION MECHANICAL ROOF PLAN
		MD2.10	DEMOLITION MECHANICAL PLAN
		MD2.10A	DEMOLITION MECHANICAL PLAN - BID ALTERNATE
		M1.10	MECHANICAL ROOF PLAN
		M2.10	MECHANICAL PLAN
		M2.10A	MECHANICAL PLAN - BID ALTERNATE
		M6.00	DESIGN DETAILS
		M6.01	DESIGN DETAILS

EXISTING CONDITIONS

THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERRABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE (INCLUDING BUT NOT LIMITED TO SIZES, INVERTS AND POINTS OF CONNECTION) AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN HIS BID ALL COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.

MECHANICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
		SHEET NOTE
		REVISION NUMBER
		RECTANGULAR DUCTWORK (IN) - ROUND DUCTWORK (IN)
SA		SUPPLY AIR DUCT UP/DOWN
RA		RETURN AIR DUCT UP/DOWN
EA		EXHAUST AIR DUCT UP/DOWN
OA		OUTSIDE AIR DUCT UP/DOWN
		SUPPLY, RETURN, EXHAUST - DIFFUSER, GRILLE, OR REGISTER
		LINEAR SLOT DIFFUSER, GRILLE OR REGISTER
		SIDEWALL SLOT DIFFUSER, GRILLE OR REGISTER
		AIR FLOW DIRECTION ARROW
		SINGLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
		DOUBLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
		SINGLE/DOUBLE LINE RADIUS DUCT ELBOW
		SINGLE/DOUBLE LINE MITERED DUCT ELBOW
		DOUBLE LINE DUCT TRANSITION
FSD		DAMPERS - FIRE, SMOKE, AND COMBINATION FIRE/SMOKE
MD, BDD		DAMPERS - MOTORIZED AND BACKDRAFT
MVD		DAMPERS - MANUAL AND MANUAL WITH REMOTE OPERATION
DD		DUCT MOUNTED SMOKE DETECTOR
CHS/R		CHILLED WATER - SUPPLY AND RETURN
HS/R		HOT WATER - SUPPLY AND RETURN
D		DRAIN
ICW		INDUSTRIAL COLD WATER
CS/R		CONDENSER WATER - SUPPLY AND RETURN
LPS/R		LOW PRESSURE STEAM - SUPPLY AND RETURN
HPS/R		HIGH PRESSURE STEAM - SUPPLY AND RETURN
RL/S		REFRIGERANT - LIQUID AND SUCTION
PD		PUMPED DRAIN
S/R		HYDRONIC LOOP - SUPPLY AND RETURN
CV		CONTROL VALVE (2-WAY, 3-WAY)
PCV		PNEUMATIC CONTROL VALVE (2-WAY, 3-WAY)
GV, SOV		GATE VALVE/SHUT-OFF VALVE
TV		THROTTLING VALVE
BV		BALANCING VALVE
CV		CHECK VALVE
PRV		PRESSURE REDUCING VALVE
RV		RELIEF VALVE
		STRAINER WITH BLOW-DOWN VALVE
FPC		FLEXIBLE PIPE CONNECTION
		UNION
AV		AIR VENT
		DUCT OR PIPE SINGLE LINE TRANSITION
PG		PRESSURE GAUGE
TH		THERMOMETER
TW		TEST WELL (PETE'S PLUG)
		FLOW SWITCH
		PIPE DOWN AND PIPE TEE DOWN
		PIPE UP AND PIPE TEE UP
		PIPE CAP
		ANCHOR
		GUIDE
		FLOW ARROW
		THERMOSTAT
		HUMIDISTAT
		SPACE TEMPERATURE SENSOR WITH PLUG-IN PORT
		OCCUPANCY SENSOR
		CARBON DIOXIDE SENSOR
		CARBON MONOXIDE SENSOR
POC		POINT OF CONNECTION TO EXISTING
POD		POINT OF DISCONNECTION FROM EXISTING
		ITEM TO BE REMOVED
		EQUIPMENT TYPE
		EQUIPMENT NUMBER
		CFM/GPM, E = EXISTING
		SUPPLY DIFFUSER TAG, E = EXISTING
		CFM/DIRECTION
		RETURN/EXHAUST GRILLE TAG, E = EXISTING
		CFM/DIRECTION
		PLAN/RISER TYPE
		SHEET/RISER NUMBER
		AHU EQUIPMENT NUMBER
		TERMINAL BOX TAG
		CFM/GPM

MECHANICAL ABBREVIATION LIST

(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

AABC	AMERICAN AIR BALANCE COUNCIL	LAT	LEAVING AIR TEMPERATURE
AD	ACCESS DOOR	LBS	POUNDS
ADA	AMERICANS WITH DISABILITIES ACT	LWT	LEAVING WATER TEMPERATURE
AF	AIR FOIL		
AFF	ABOVE FINISH FLOOR	MAT	MIXED AIR TEMPERATURE
AFMS	AIR FLOW MEASURING STATION	MAX	MAXIMUM
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MBH	1000 BRITISH THERMAL UNITS PER HOUR
AHU (AH)	AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPS
AP	ACCESS PANEL	MCC	MOTOR CONTROL CENTER
APD	AIR PRESSURE DROP	MERV	MINIMUM EFFICIENCY REPORTING VALUE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MIN	MINIMUM
		MOCP	MAXIMUM OVER CURRENT PROTECTION
AUTO	AUTOMATIC		
		NA	NOT APPLICABLE
B	BOILER	NC	NORMALLY CLOSED
BAS	BUILDING AUTOMATION SYSTEM	NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
BHP	BRAKE HORSE POWER		
BI	BACKWARD INCLINED	NEC	NATIONAL ELECTRICAL CODE
BMS	BUILDING MANAGEMENT SYSTEM	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
		NO	NORMALLY OPEN
°C	DEGREES CELSIUS	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE
CBC	CALIFORNIA BUILDING CODE	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
CFH	CUBIC FEET PER HOUR		
CFM	CUBIC FEET PER MINUTE	OED	OPEN END DUCT
CH	CHILLER	OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
CHWP	CHILLED WATER PUMP		
CMC	CALIFORNIA MECHANICAL CODE	OPA	OSHPD PRE-APPROVAL OF ANCHORAGE
CO	CARBON MONOXIDE	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
CO2	CARBON DIOXIDE		
COP	COEFFICIENT OF PERFORMANCE	OSP	OSHPD SPECIAL SEISMIC CERTIFICATION PRE-APPROVAL
CPC	CALIFORNIA PLUMBING CODE		
CT	COOLING TOWER	P	PUMP
CU	CONDENSING UNIT	PCF	POUND PER CUBIC FOOT
CV	CONSTANT VOLUME	PCU	POLLUTION CONTROL UNIT
CWP	CONDENSER WATER PUMP	PD	PRESSURE DROP
		PH	PHASE
DB	DRY BULB TEMPERATURE	PPM	PARTS PER MILLION
dB	DECIBEL	PRV	PRESSURE REDUCING VALVE
DC	DIRECT CURRENT	PSI	POUND PER SQUARE INCH
DDC	DIRECT DIGITAL CONTROL	PSIA	POUND PER SQUARE INCH ABSOLUTE
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL	PSIG	POUND PER SQUARE INCH GAUGE
DIA (ø)	DIAMETER	PTAC	PACKAGED THROUGH THE WALL AIR CONDITIONER UNIT
DN	DOWN		
DP	DIFFERENTIAL PRESSURE	PTHP	PACKAGED THROUGH THE WALL HEAT PUMP UNIT
DS	DUCT SUMP		
DX	DIRECT EXPANSION	REFR	REFRIGERANT
		RH	RELATIVE HUMIDITY
E	EXISTING	RPM	REVOLUTIONS PER MINUTE
EAT	ENTERING AIR TEMPERATURE	RTU	ROOFTOP UNIT
EC	EVAPORATIVE COOLER		
EER	ENERGY EFFICIENCY RATIO	SD	SMOKE DAMPER
EF	EXHAUST FAN	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY	SEF	SMOKE EXHAUST FAN
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	SF	SUPPLY FAN
ESP	EXTERNAL STATIC PRESSURE	SH	STATIC HEAD
ET	EXPANSION TANK	SP	STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	SQ FT (Ø)	SQUARE FEET
		TAB	TESTING AND BALANCING
°F	DEGREES FAHRENHEIT	TCP	TEMPERATURE CONTROL PANEL
FCU (FC)	FAN COIL UNIT	TD	TEMPERATURE DIFFERENCE
FLA	FULL LOAD AMPS	TDH	TOTAL DEVELOPED HEAD
FM	FLOW METER	TEL	TOTAL EQUIVALENT LENGTH
FPM	FEET PER MINUTE	TEMP (T)	TEMPERATURE
FPS	FEET PER SECOND	TF	TRANSFER FAN
FT	FEET	TSP	TOTAL STATIC PRESSURE
		TYP	TYPICAL
GA	GAUGE		
GAL	GALLONS	UH	UNIT HEATER
GBS	GALVANIZED BIRD SCREEN	UMC	UNIFORM MECHANICAL CODE
GPH	GALLONS PER HOUR	UNO	UNLESS NOTED OTHERWISE
GPM	GALLONS PER MINUTE	UPC	UNIFORM PLUMBING CODE
		UV	ULTRA VIOLET
H	HEIGHT	V	VOLT
HD	HEAD	VAV	VARIABLE AIR VOLUME
HOA	HAND OFF AUTO	VD	VOLUME DAMPER (MANUAL)
HP	HORSE POWER	VEL	VELOCITY
HR	HOUR	VFD	VARIABLE FREQUENCY DRIVE
HWP	HOT WATER PUMP		
HX	HEAT EXCHANGER	W	WATT, WIDTH
HZ	HERTZ	WB	WET BULB TEMPERATURE
		WC	WATER COLUMN
IBC	INTERNATIONAL BUILDING CODE	WG	WATER GAUGE
IFC	INTERNATIONAL FIRE CODE	WMS	WIRE MESH SCREEN
IH	INTAKE HOOD	WP	WATER PRESSURE
IMC	INTERNATIONAL MECHANICAL CODE	WPD	WATER PRESSURE DROP
IN	INCH	WSHP (WHP)	WATER SOURCE HEAT PUMP
IPC	INTERNATIONAL PLUMBING CODE	WT	WEIGHT
KW	KILOWATT		
L	LENGTH		

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CITY OF LAS VEGAS

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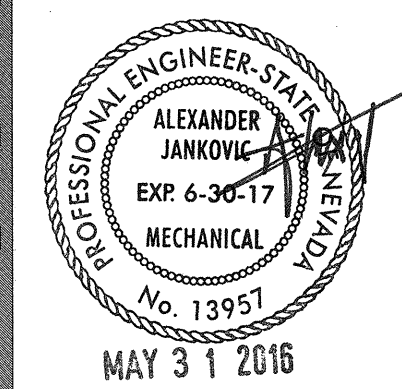
JUN 28 2016 DK

BUREAU VERITAS NORTH AMERICA, INC.

#15.0821

The seal of the City of Las Vegas, Nevada, is a circular emblem. It features a central illustration of the New York-New York Hotel & Casino skyline, including the replicas of the Empire State Building and the Big Ben clock tower. The words "CITY OF LAS VEGAS" are inscribed in a circle around the top, and "NEVADA" is at the bottom.

- | REVISIONS |
|-----------|
| |
| |
| |



Charleston Heights Community Center
- Renovation -

GENERAL NOTES AND SCHEDULES



- OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	JU
FILE	
DATE	05/02/2016
SCALE	
EID NO	15.59806.JH
CLV DWG NO	620-10B
HANSEN NO	59806

MO.01

REVIEWED FOR CODE COMPLIANCE

JUN 28 2016 DK

BUREAU VERITAS NORTH AMERICA, INC.

DIFFUSER & REGISTER SCHEDULE							
SUPPLY AIR				RETURN or EXHAUST AIR			
ITEM	NECK SIZE	CFM RANGE	TYPE	ITEM	NECK SIZE	CFM RANGE	TYPE
1	6ø - 6 X 6	0 - 90	S1	1	6ø - 6 X 6	0 - 80	R1
2	8ø - 8 X 8	91 - 160	S1	2	8ø - 8 X 8	81 - 140	R1
3	10ø - 10 X 10	161 - 250	S1	3	10ø - 10 X 10	141 - 215	R1
4	12ø - 12 X 12	251 - 360	S1	4	12ø - 12 X 12	216 - 315	R1
5	14ø - 14 X 14	361 - 460	S1	5	14ø	316 - 430	R1
6	16ø - 16 X 16	461 - 600	S1	6	16ø	431 - 560	R1
7	6 X 6	0 - 190	S2	7	18 X 18	561 - 900	R1
8	8 X 8	191 - 310	S2	8	22 X 22	901 - 1345	R1
9	10 X 10	311 - 430	S2	9	6 X 6	0 - 100	R2
10	12 X 12	431 - 560	S2	10	8 X 8	101 - 200	R2
11	14 X 14	561 - 695	S2	11	10 X 10	201 - 300	R2
12	16 X 16	696 - 820	S2	12	12 X 12	301 - 450	R2
13	18 X 18	821 - 950	S2	13	14 X 14	451 - 625	R2
14	20 X 20	951 - 1085	S2	14	16 X 16	626 - 810	R2
15	22 X 22	1086 - 1200	S2	15	18 X 18	811 - 965	R2
16	24 X 24	1201 - 1330	S2	16	20 X 20	966 - 1110	R2
17	6 X 6	0 - 125	S3	17	22 X 22	1111 - 1255	R2
18	8 X 8	126 - 250	S3	18	24 X 24	1256 - 1375	R2
19	12 X 8	251 - 350	S3				
20	18 X 8	351 - 550	S3				
21	24 X 12	551 - 1000	S3				
22	-	200 - 550	S4				
23	-	160 - 400	S5				
24	20 X 20	800 - 900	S6				
DIFFUSER & REGISTER SPECIFICATIONS							
SUPPLY AIR:							
TYPE S1: TITUS MODEL TMS-AA DIFFUSER WITH ADJUSTABLE VANES, BORDER TYPE 3 WITH 24" X 24" MODULE SIZE FOR LAY-IN CEILINGS. THROW PATTERN SHALL BE 4 WAY UNLESS NOTED OTHERWISE.							
TYPE S2: TITUS MODEL MCD MODULAR CORE DIFFUSER WITH BORDER TYPE 3 FOR LAY-IN CEILINGS OR BORDER TYPE 6 FOR SURFACE MOUNT. THROW PATTERN SHALL BE 4 WAY UNLESS NOTED OTHERWISE.							
TYPE S3: TITUS MODEL 300RS DOUBLE DEFLECTION SIDE WALL SUPPLY AIR GRILLE.							
TYPE S4: TITUS MODEL FL-20, 4' LONG FLOW BAR, SLOT DIFFUSER WITH 2" SLOTS AND BORDER TYPE 22 INCLUDING MODEL FBPI-20 INSULATED PLENUM.							
TYPE S5: PRICE, MODEL DF1R 48 X 24 DISPLACEMENT DIFFUSER. FOR RECESSED APPLICATION PROVIDE STANDARD RECESSED FRAME. FINAL FINISH TO BE SELECTED BY ARCHITECT.							
TYPE S6: TITUS MODEL PAR PERFORATED FLUSH FACE GRILLE WITH BORDER TYPE 3 WITH 24" X 24" MODULE SIZE FOR LAY-IN CEILINGS.							
RETURN/EXHAUST AIR:							
TYPE R1: TITUS MODEL PAR PERFORATED FLUSH FACE GRILLE WITH BORDER TYPE 3 WITH 24" X 24" MODULE SIZE FOR LAY-IN CEILINGS.							
TYPE R2: TITUS MODEL 350RL BLADE TYPE GRILLE WITH 3/4" SPACED BLADES AND 35° DEFLECTION, BORDER TYPE 1 FOR SURFACE MOUNT OR BORDER TYPE 3 FOR LAY-IN CEILINGS. INSTALL WITH BLADES OPPOSED TO LINE OF SIGHT.							

EXHAUST FAN SCHEDULE														
ITEM	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER	TYPE	AIRFLOW (CFM)	SP (IN WG)	FAN RPM	ELECTIRCAL					MAX OPERATING WEIGHT (LBS)	NOTES
								BHP	HP	RPM	FLA (A)	V/PH		
EF-1	ROOF	RESTROOMS 102,103	GREENCHECK CUE-121-VG	-	1,200	0.6	-	-	1/2	1,725	6.2	120/1	75	1, 2, 3, 4
1. PROVIDE SOUND ATTENUATING ROOF CURB. 2. OPERATION AT 2,200 FEET ABOVE SEA LEVEL. 3. PROVIDE BACKDRAFT DAMPER AND UNIT MOUNTED DISCONNECT SWITCH. 4. PROVIDE HINGED CURB CAP KIT WITH CABLES.														

REVIEWED FOR CODE COMPLIANCE
JUN 28 2016 DK
BUREAU VERITAS NORTH AMERICA, INC.



REVISIONS

ARCHITECT



MAY 31 2016

Charleston Heights Community Center
- Renovation -

SCHEDULES



333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89105
PHONE: (702) 229-6535
FAX: (702) 384-6846
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OWNER: CITY OF LAS VEGAS
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DRAWN: JU

FILE:

DATE: 05/02/2016

SCALE:

BID NO: 15.59806-JH

CLV DWG NO: 620-10B

HANSEN NO: 59806

SHT NO:

M0.02

#15.0821

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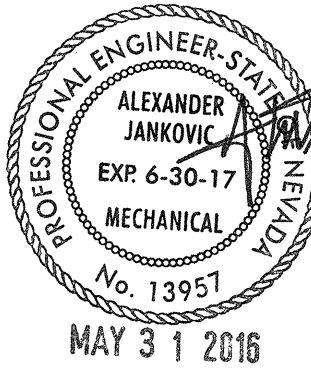
VENTILATION COMPLIANCE (PER ASHRAE 62.1)										
ROOM NUMBER	ROOM NAME	AREA CALCULATION			OCCUPANT CALCULATION			TOTAL OA REQUIRED (CFM)	TOTAL OA PROVIDED (CFM)	NOTES
		AREA (SQ FT)	AREA OA RATE (CFM/SQ FT)	AREA OA REQUIRED (CFM)	OCCUPANT QTY	OCCUPANT OA RATE (CFM/PERSON)	OCCUPANT OA REQUIRED (CFM)			
101	ENTRANCE	500	0.06	30	4	5	20	5		
105	EXHIBIT AREA	629	0.06	37.7	20	7.5	150	188		
113	LOBBY	649	0.06	38.9	20	5	100	139		
114	OFFICE	147	0.06	3.8	2	5	10	14		
							AC-1	346	900	
109	MULTI-PURPOSE ROOM	8,438	0.06	506.3	450	5	2,250	2,756		
110	OFFICE	201	0.06	12.1	2	5	10	22		
111	OFFICE	65	0.06	3.9	2	5	10	14		
112	OFFICE	127	0.06	7.6	2	5	10	18		
							AC-2	2,810	3,000	
127	DRESSING ROOM	146	0.06	8.8	2	5	10	19		
130	CORRIDOR	204	0.06	12.2	-	-	-	12		
132	STORAGE	567	0.06	34	-	-	-	34		
133	CORRIDOR	194	0.06	11.6	-	-	-	12		
140	MULTI-PURPOSE ROOM	2,311	0.06	138.7	120	5	600	739		
							AC-3	816	800	
115	OFFICE	150	0.06	9	2	5	10	19		
116	STAIR	121	0.06	7.3	-	-	-	7		
117	FOYER	85	0.06	5.1	-	-	-	5		
129	DRESSING ROOM	117	0.06	7	2	5	10	17		
138	SERVING	138	0.06	8.3	4	5	20	28		
139	CONFERENCE	598	0.06	35.9	20	5	100	136		
136	STAFF ROOM	204	0.06	12.2	5	5	25	37		
137	STORAGE	74	0.06	4.4	-	-	-	4		
							AC-4	253	300	
124	STAGE	4,750	0.06	285	30	5	150	435		
125	BACKSTAGE WORK AREA	477	0.06	28.6	6	5	30	59		
							AC-6	494	500	
106	RECEIVING AREA	863	0.06	51.2	4	5	20	71		

REVIEWED FOR CODE COMPLIANCE
JUN 28 2016
BUREAU VERITAS NORTH AMERICA, INC.



REVISIONS

ARCHITECT



CHARLESTON HEIGHTS COMMUNITY CENTER
- Renovation -



333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
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SHEET NO: M0.03

DEPARTMENT OF PUBLIC WORKS

#15.0821

VENTILATION COMPLIANCE

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COMcheck Software Version 4.0.2.5

Mechanical Compliance Certificate

Section 1: Project Information

Energy Code: 2009 IECC

Project Title: Charleston Heights Art Center

Project Type: Alteration

Construction Site:

800 Brush Street
Las Vegas, NV 89197

Owner/Agent:

City of Las Vegas
Department of Public Works

Designer/Contractor:

JBA Consulting Engineers
5155 W. Patrick Ln
Las Vegas, NV 89118

Section 2: General Information

Building Location (for weather data):
Climate Zone:

Las Vegas, Nevada
(36)

Section 3: Mechanical Systems List

Quantity System Type & Description

- 1 AC-1 Exhibit Area (Single Zone) :
- Heating: 1 each - Central Furnace, Gas, Capacity = 194 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency = 80.00% Et
Cooling: 1 each - Single Package DX Unit, Capacity = 143 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.50 EER, Required Efficiency = 10.80 EER
Fan System: FAN SYSTEM 1 | AC-1 -- Compliance (Motor nameplate HP method) : Passes
- Fans:
FAN 1 Supply, Constant Volume, 5000 CFM, 5.0 motor nameplate hp
- 1 AC-2 Multi-purpose room (Single Zone) :
- Heating: 1 each - Central Furnace, Gas, Capacity = 350 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency = 80.00% Et
Cooling: 1 each - Single Package DX Unit, Capacity = 375 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 10.00 EER, Required Efficiency = 9.80 EER
Fan System: FAN SYSTEM 2 | AC-2 -- Compliance (Motor nameplate HP method) : Passes
- Fans:
FAN 2 Supply, Constant Volume, 12500 CFM, 10.0 motor nameplate hp
- 1 AC-3 Meeting/Function (Single Zone) :
- Heating: 1 each - Central Furnace, Gas, Capacity = 194 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency = 80.00% Et
Cooling: 1 each - Single Package DX Unit, Capacity = 200 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.10 EER, Required Efficiency = 10.80 EER
Fan System: FAN SYSTEM 3 | AC-3 -- Compliance (Motor nameplate HP method) : Passes
- Fans:
FAN 3 Supply, Constant Volume, 6000 CFM, 5.0 motor nameplate hp
- 1 AC-4 Work room (Single Zone) :
- Heating: 1 each - Central Furnace, Gas, Capacity = 155 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency = 80.00% Et
Cooling: 1 each - Single Package DX Unit, Capacity = 114 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.30 EER, Required Efficiency = 11.00 EER
Fan System: FAN SYSTEM 4 | AC-4 -- Compliance (Motor nameplate HP method) : Passes
- Fans:
FAN 4 Supply, Constant Volume, 4000 CFM, 3.0 motor nameplate hp
- 1 AC-6 Stage (Single Zone) :

Project Title: Charleston Heights Art Center
Data filename: J:\15.0821\Docs\Design\M2012 IECC\Charleston Heights Art Ctr Energy Compliance.cck

Report date: 05/23/16
Page 1 of 4

Heating: 1 each - Central Furnace, Gas, Capacity = 194 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency = 80.00% Et
Cooling: 1 each - Single Package DX Unit, Capacity = 197 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency = 10.80 EER
Fan System: FAN SYSTEM 5 | AC-6 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 5 Supply, Constant Volume, 5800 CFM, 5.0 motor nameplate hp

- 1 AC-7 NE corner area (Single Zone) :
- Heating: 1 each - Central Furnace, Gas, Capacity = 64 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency = 80.00% Et
Cooling: 1 each - Single Package DX Unit, Capacity = 41 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 16.40 SEER, Required Efficiency = 13.00 SEER
Fan System: FAN SYSTEM 6 | AC-7 -- Compliance (Motor nameplate HP method) : Passes
- Fans:
FAN 6 Supply, Constant Volume, 1600 CFM, 1.5 motor nameplate hp
- 1 Water Heater WH-1:
Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 199 Btu/h w/ Circulation Pump
Proposed Efficiency: 94.00 % Et, Required Efficiency: 80.00 % Et

Section 4: Requirements Checklist

Requirements Specific To: AC-1 Exhibit Area :

- ☐ 1. Equipment minimum efficiency: Central Furnace (Gas): 80.00 % Et (or 78% AFUE)
- ☐ 2. Equipment minimum efficiency: Single Package Unit: 10.80 EER
- ☐ 3. Integrated economizer is required for this location and system.
- ☐ 4. Cooling system provides a means to relieve excess outdoor air during economizer operation.
- ☐ 5. Hot gas bypass prohibited unless system has multiple steps of unloading or continuous capacity modulation
- ☐ 6. Hot gas bypass limited to 50% of total cooling capacity

Requirements Specific To: AC-2 Multi-purpose room :

- ☐ 1. Equipment minimum efficiency: Central Furnace (Gas): 80.00 % Et
- ☐ 2. Equipment minimum efficiency: Single Package Unit: 9.80 EER (9.5 IPLV)
- ☐ 3. Integrated economizer is required for this location and system.
- ☐ 4. Cooling system provides a means to relieve excess outdoor air during economizer operation.
- ☐ 5. Hot gas bypass prohibited unless system has multiple steps of unloading or continuous capacity modulation
- ☐ 6. Hot gas bypass limited to 25% of total cooling capacity

Requirements Specific To: AC-3 Meeting/Function :

- ☐ 1. Equipment minimum efficiency: Central Furnace (Gas): 80.00 % Et (or 78% AFUE)
- ☐ 2. Equipment minimum efficiency: Single Package Unit: 10.80 EER
- ☐ 3. Integrated economizer is required for this location and system.
- ☐ 4. Cooling system provides a means to relieve excess outdoor air during economizer operation.
- ☐ 5. Hot gas bypass prohibited unless system has multiple steps of unloading or continuous capacity modulation
- ☐ 6. Hot gas bypass limited to 50% of total cooling capacity

Requirements Specific To: AC-4 Work room :

- ☐ 1. Equipment minimum efficiency: Central Furnace (Gas): 80.00 % Et (or 78% AFUE)
- ☐ 2. Equipment minimum efficiency: Single Package Unit: 11.00 EER
- ☐ 3. Integrated economizer is required for this location and system.
- ☐ 4. Cooling system provides a means to relieve excess outdoor air during economizer operation.
- ☐ 5. Hot gas bypass prohibited unless system has multiple steps of unloading or continuous capacity modulation
- ☐ 6. Hot gas bypass limited to 50% of total cooling capacity

Requirements Specific To: AC-6 Stage :

- ☐ 1. Equipment minimum efficiency: Central Furnace (Gas): 80.00 % Et (or 78% AFUE)
- ☐ 2. Equipment minimum efficiency: Single Package Unit: 10.80 EER
- ☐ 3. Integrated economizer is required for this location and system.
- ☐ 4. Cooling system provides a means to relieve excess outdoor air during economizer operation.
- ☐ 5. Hot gas bypass prohibited unless system has multiple steps of unloading or continuous capacity modulation
- ☐ 6. Hot gas bypass limited to 50% of total cooling capacity

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Report date: 05/23/16
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Requirements Specific To: AC-7 NE corner area :

- ☐ 1. Equipment minimum efficiency: Central Furnace (Gas): 80.00 % Et (or 78% AFUE)
- ☐ 2. Equipment minimum efficiency: Single Package Unit: 13.00 SEER

Requirements Specific To: Water Heater WH-1 :

- ☐ 1. Water heating equipment meets minimum efficiency requirements: Gas Storage Water Heater efficiency: 80.00 % Et (259 Btu/kBtu)
- ☐ 2. All piping in circulating system insulated
- ☐ 3. Hot water storage temperature controls that allow setpoint of 90°F for non-dwelling units and 110°F for dwelling units.
- ☐ 4. Automatic time control of heat tapes and recirculating systems present
- ☐ 5. Controls will shut off operation of circulating pump between water heater/boiler and storage tanks within 5 minutes after end of heating cycle

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- ☐ 1. Plant equipment and system capacity no greater than needed to meet loads
- Exception(s):
- ☐ Standby equipment automatically off when primary system is operating
- ☐ Multiple units controlled to sequence operation as a function of load
- ☐ 2. Minimum one temperature control device per system
- ☐ 3. Minimum one humidity control device per installed humidification/dehumidification system
- ☐ 4. Load calculations per ASHRAE/ACCA Standard 183.
- ☐ 5. Automatic Controls: Setback to 55°F (heat) and 65°F (cool); 7-day clock; 2-hour occupant override; 10-hour backup
- Exception(s):
- ☐ Continuously operating zones:
- ☐ 6. Outside-air source for ventilation; system capable of reducing OSA to required minimum:
- ☐ 7. R-5 supply and return air duct insulation in unconditioned spaces
- ☐ R-8 supply and return air duct insulation outside the building
- ☐ R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
- Exception(s):
- ☐ Ducts located within equipment:
- ☐ Ducts with interior and exterior temperature difference not exceeding 15°F.
- ☐ 8. Mechanical fasteners and sealants used to connect ducts and air distribution equipment
- ☐ 9. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
- ☐ 10. Hot water pipe insulation: 1.5 in. for pipes <= 1.5 in. and 2 in. for pipes > 1.5 in.
- ☐ Chilled water/refrigerant/bribe pipe insulation: 1.5 in. for pipes <= 1.5 in. and 1.5 in. for pipes > 1.5 in.
- ☐ Steam pipe insulation: 1.5 in. for pipes <= 1.5 in. and 3 in. for pipes > 1.5 in.
- Exception(s):
- ☐ Piping within HVAC equipment.
- ☐ Fluid temperatures between 55 and 105°F.
- ☐ Fluid not heated or cooled with renewable energy.
- ☐ Piping within room fan-coil (with AHR440 rating) and unit ventilators (with AHR1840 rating).
- ☐ Runouts < 4 ft in length.
- ☐ 11. Operation and maintenance manual provided to building owner
- ☐ 12. Thermostats controls have 5°F deadband
- Exception(s):
- ☐ Thermostats requiring manual changeover between heating and cooling
- ☐ Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
- ☐ 13. Balancing devices provided in accordance with IMC 603.17
- ☐ 14. Demand control ventilation (DCV) present for high design occupancy areas (> 40 person/1000 ft² in spaces > 600 ft²) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
- Exception(s):
- ☐ Systems with heat recovery.
- ☐ Multiple-zone systems without DDC of individual zones communicating with a central control panel.
- ☐ Systems with a design outdoor airflow less than 1200 cfm.
- ☐ Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
- ☐ 15. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
- Exception(s):

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Data filename: J:\15.0821\Docs\Design\M2012 IECC\Charleston Heights Art Ctr Energy Compliance.cck

Report date: 05/23/16
Page 3 of 4

- ☐ Gravity dampers acceptable in buildings < 3 stories
- ☐ 16. Automatic controls for freeze protection systems present
- ☐ 17. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted
- Exception(s):
- ☐ Hazardous exhaust systems, commercial kitchen and clothes dryer exhaust systems that the International Mechanical Code prohibits the use of energy recovery systems.
- ☐ Systems serving spaces that are heated and not cooled to less than 60°F.
- ☐ Where more than 60 percent of the outdoor heating energy is provided from site-recovered or site solar energy.
- ☐ Heating systems in climates with less than 3600 HDD.
- ☐ Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64°F.
- ☐ Systems requiring dehumidification that employ energy recovery in series with the cooling coil.
- ☐ Laboratory fume hood exhaust systems that have either a variable air volume system capable of reducing exhaust and makeup air volume to 60 percent or less of design values or; a separate make up air supply meeting the following makeup air requirements:
- a) at least 75 percent of exhaust flow rate, b) heated to no more than 2°F below room setpoint temperature, c) cooled to no lower than 3°F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling.

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical alteration project has been designed to meet the 2009 IECC, Chapter 6, requirements in COMcheck Version 4.0.2.5 and to comply with the mandatory requirements in the Requirements Checklist.

Name: Title Signature Date

Section 6: Post Construction Compliance Statement

- ☐ HVAC record drawings of the actual installation, system capacities, calibration information, and performance data for each equipment provided to the owner.
- ☐ HVAC O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor.
- ☐ Written HVAC balancing and operations report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer-Name Signature Date

REVIEWED FOR CODE COMPLIANCE

JUN 28 2016 DK

BUREAU VERITAS NORTH AMERICA, INC.



REVISIONS

ARCHITECT



Charleston Heights Community Center
- Renovation -

ENERGY COMPLIANCE



JBA Las Vegas
5155 W Patrick Ln
Las Vegas, NV 89118
p 702.362.8200

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN JU

FILE

DATE 05/02/2016

SCALE

BID NO 15.59806.JH

CLV DWG NO 620-10B

HANSEN NO 59806

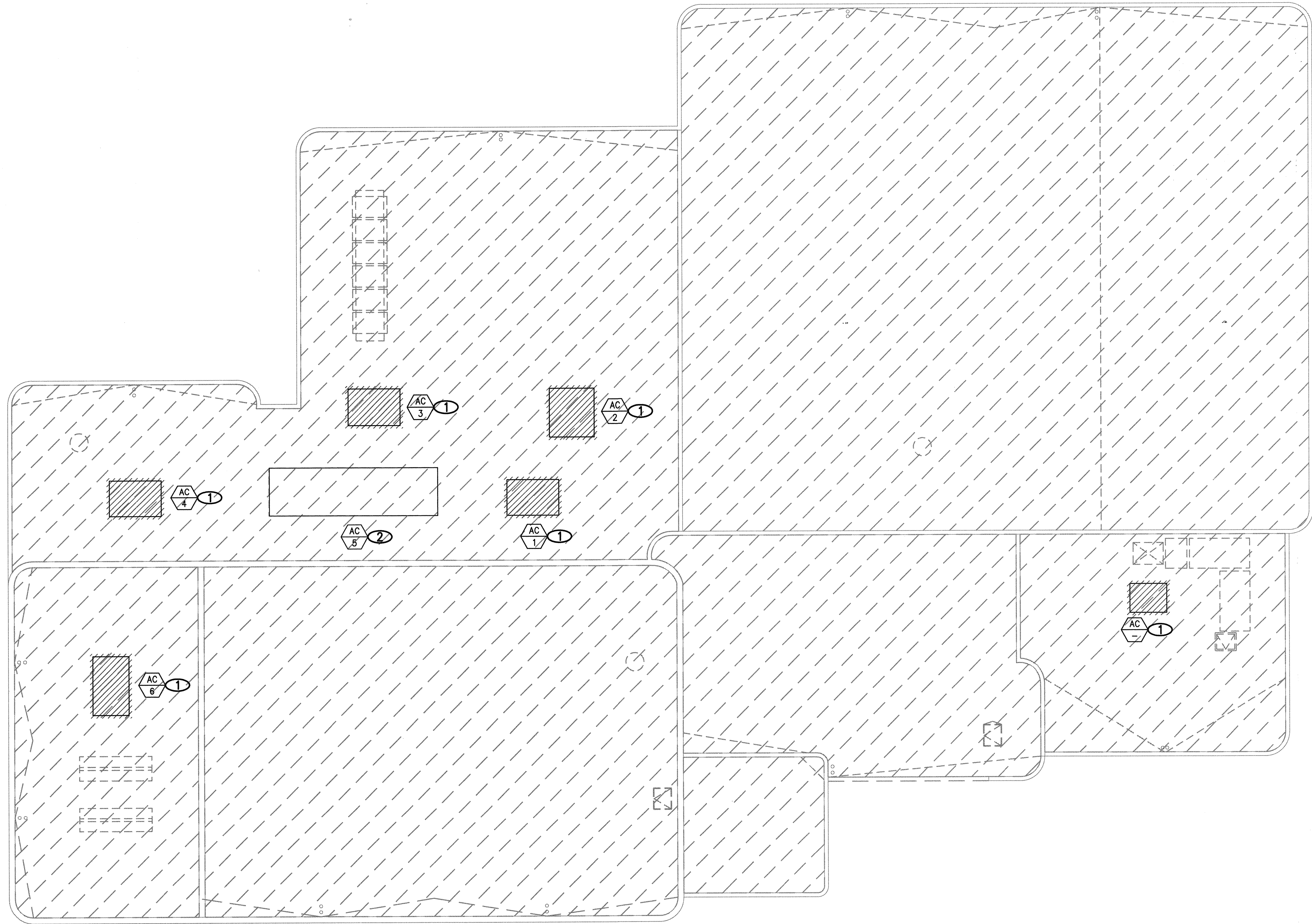
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Project Title: Charleston Heights Art Center
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Report date: 05/23/16
Page 4 of 4

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DEMOLITION MECHANICAL ROOF PLAN

A

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JUN 28 2016 DK

BUREAU VERITAS NORTH AMERICA, INC.

NOTICE

1. NOT USED.

NOTES

1. EXISTING ROOFTOP UNIT TO BE REMOVED. CAP EXISTING SA, RA DUCTS AND PREPARE TO CONNECT TO NEW EQUIPMENT.
2. EXISTING AC UNIT SERVICING THE THEATER TO REMAIN AND TO BE REUSED.



REVISIONS

ARCHITECT



Charleston Heights Community Center
- Renovation -

DEMOLITION MECHANICAL ROOF PLAN



jba Las Vegas
5155 W Flamingo Ave
Las Vegas, NV 89119
p 702.382.9200

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 386-4846
TDD: (702) 386-9108

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FILE	
DATE	05/02/2016
SCALE	
BID NO	15.59806.JH
CLV DWG NO	620-10B
HANSEN NO	59806
SHT NO	

MD1.10

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$$3/32'' = 1'-0''$$

1. NOT USED.

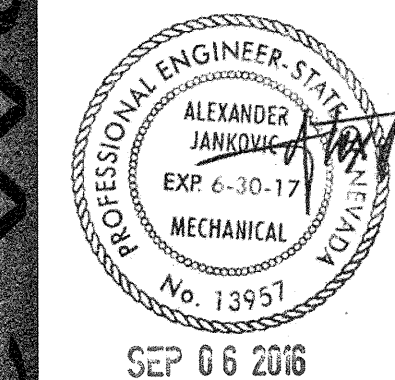
- ① EXISTING DUCTWORK AND ASSOCIATED DIFFUSERS TO REMAIN.
- ② EXISTING DUCTWORK TO REMAIN AND TO BE REUSED. REMOVE EXISTING DIFFUSERS ONLY.
- ③ EXISTING THERMOSTAT TO BE REMOVED AND RETURNED TO OWNER.
- ④ EXISTING HUMIDIFIER, CONTROLS, AND ASSOCIATED PIPING AND WIRING TO BE REMOVED.
- ⑤ EXISTING SA, RA SHEET METAL PLENUMS TO REMAIN AND TO BE REUSED.

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JUN 28 2016 DK
BUREAU VERITAS NORTH AMERICA, INC.

CITY OF LAS VEGAS

REVISIONS
3 GENERAL REVISION

ARCHITECT



Charleston Heights Community Center
- Renovation -

DEMOLITION MECHANICAL PLAN



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

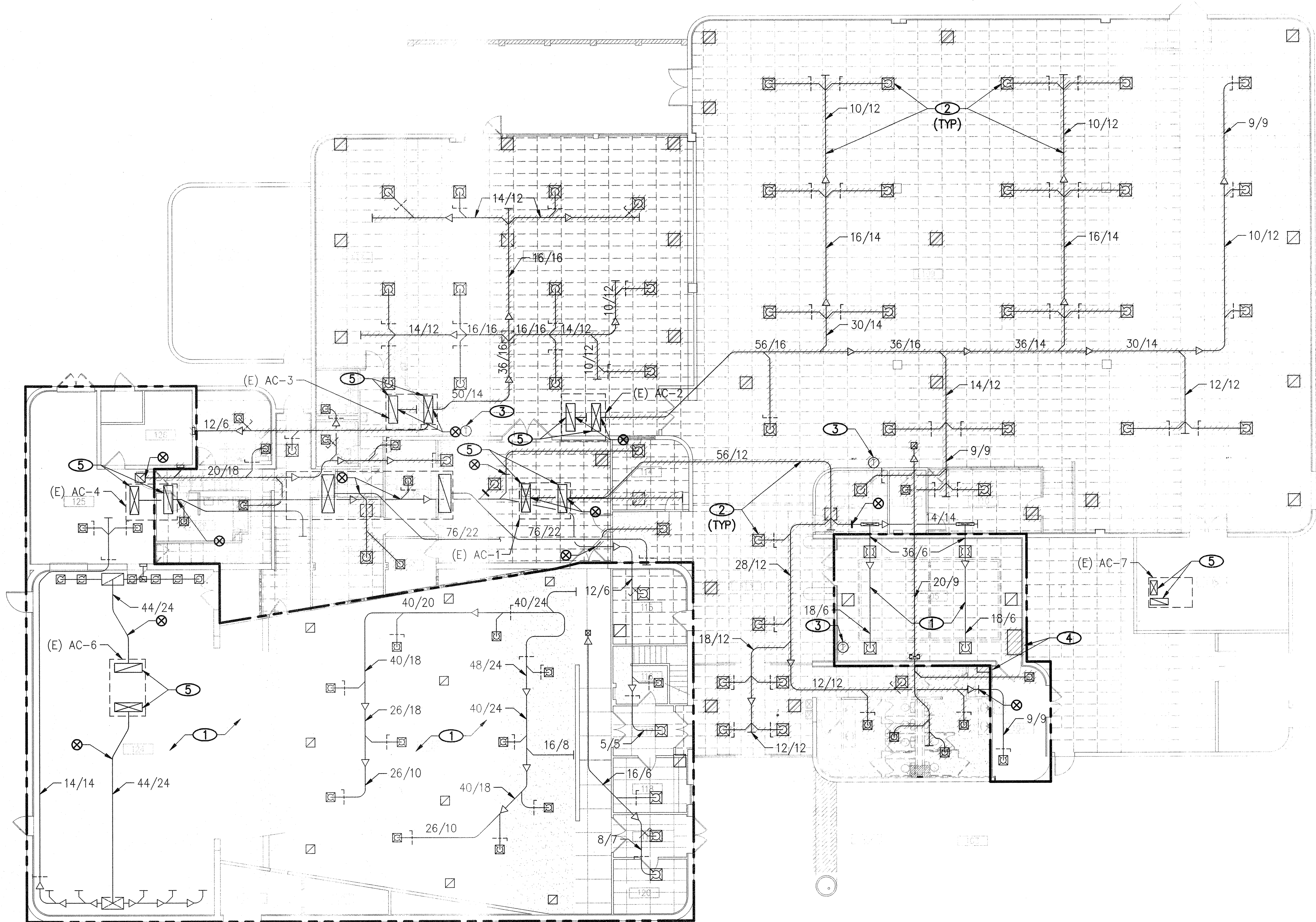
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
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FILE	
DATE	05/02/2016
SCALE	
BID NO	15.59806.JH
CLV DWG NO	620-10B
HANSEN NO	59806

MD2.10

#15.0821

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DEMOLITION MECHANICAL PLAN - BID ALTERNATE A

3/32" = 1'-0"

NOTICE

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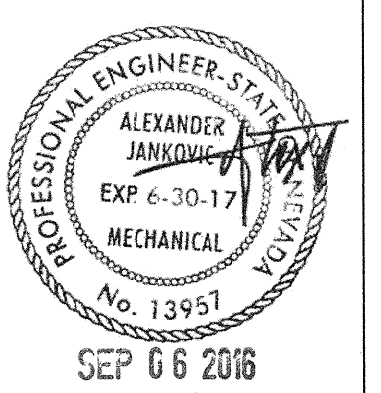
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3. EXISTING THERMOSTAT TO BE REMOVED AND RETURNED TO OWNER.
4. EXISTING HUMIDIFIER, CONTROLS, AND ASSOCIATED PIPING AND WIRING TO BE REMOVED.
5. EXISTING SA, RA SHEET METAL PLENUMS TO REMAIN AND TO BE REUSED.



REVISIONS
3 GENERAL REVISION

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Charleston Heights Community Center
- Renovation -

DEMOLITION MECHANICAL PLAN - BID ALTERNATE



jba Las Vegas
5155 W. Pecos Ln
Las Vegas, NV 89118
p 702.362.9200

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
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SHT NO	

#15.0821
MD2.10A

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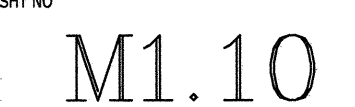
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JUN 28 2016 DK
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$$3/32'' = 1'-0''$$

BUREAU VERITAS NORTH AMERICA, INC.

MECHANICAL ROOF PLAN

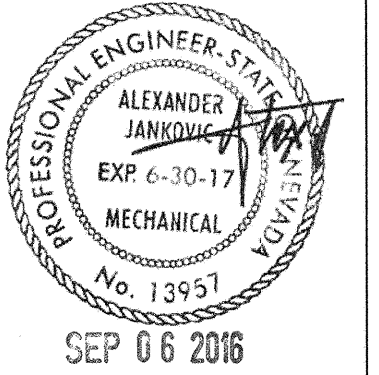


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3 GENERAL REVISION

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SEP 06 2016

Charleston Heights Community Center
- Renovation -

MECHANICAL PLAN



jba Las Vegas
5150 W. Flamingo Ave.
Las Vegas, NV 89119
p 702.362.9200

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
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SCALE	
BID NO	15.59806.JH
CLV DWS NO	620-10B
HANSEN NO	59806
SHT NO	

M2.10

NOTICE

1. PROVIDE VOLUME CONTROL DAMPER TO ALL BRANCH DUCTWORK UPSTREAM OF DIFFUSER AND RETURN GRILLE. PROVIDE REMOTE DAMPER OPERATOR BY YOUNG REGULATOR MANUFACTURER, TO ALL VOLUME DAMPERS WHICH ARE NOT ACCESSIBLE. INSTALL DAMPER CONTROLLER INSIDE THE SLOT DIFFUSER OR INSIDE THE DIFFUSER.
2. TRANSITION AS REQUIRED FROM AIR HANDLING UNIT TO DUCTWORK SIZES SHOWN.
3. VERIFY DUCTWORK ROUTING AND CLEARANCES WITH THE ARCHITECTURAL AND STRUCTURAL PLANS TO AVOID ANY CONFLICTS WITH THREADED ROD HANGERS.
4. HVAC DUCTWORK SHALL BE SEISMICALLY BRACED PER IBC.
5. PROVIDE SEISMIC RESTRAINTS FOR MECHANICAL EQUIPMENT PER IBC.

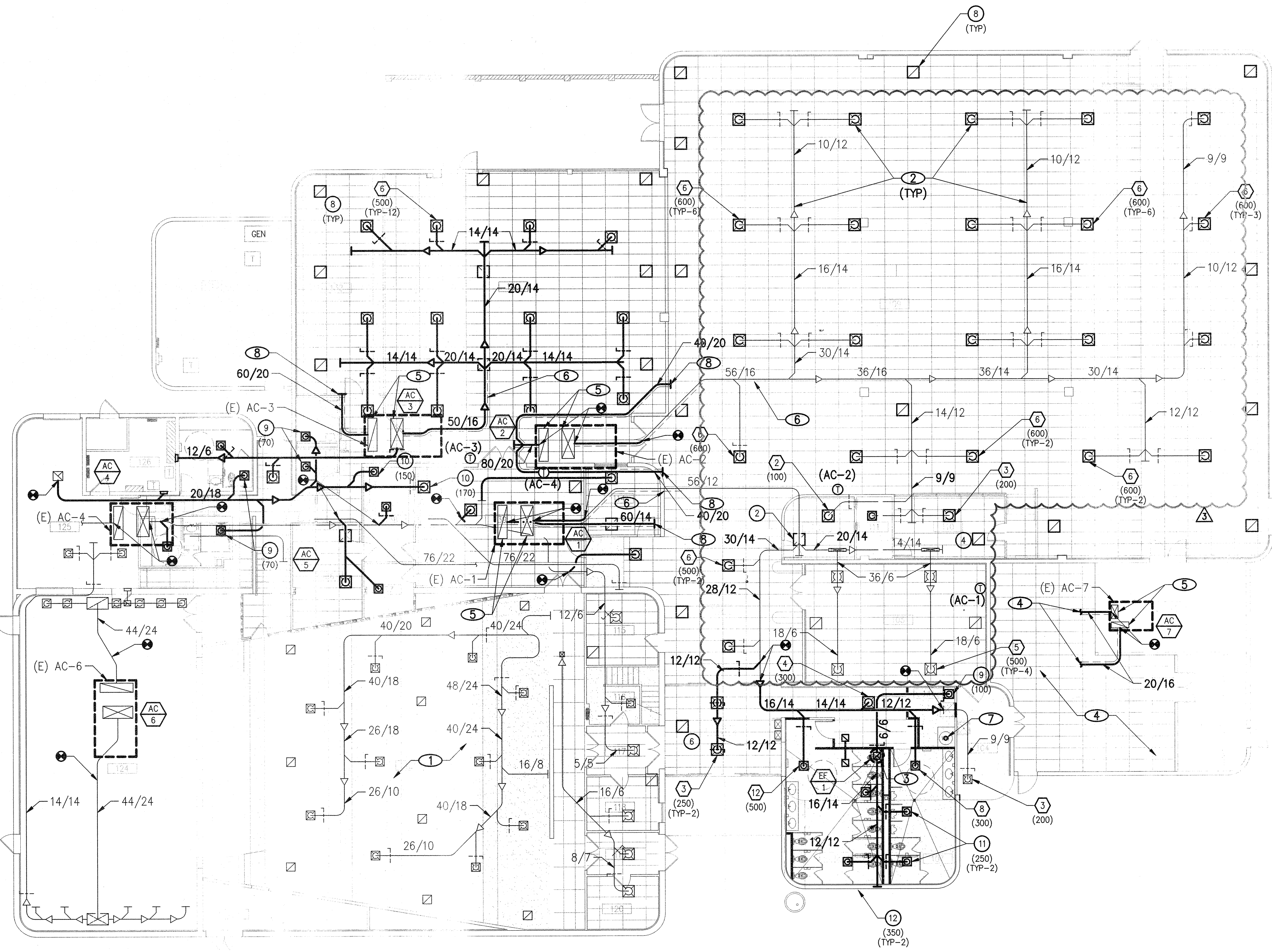
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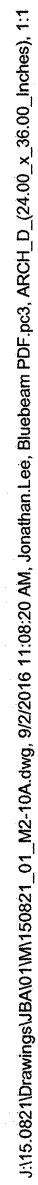
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- 2 EXISTING DUCTWORK TO BE REUSED. PROVIDE NEW SA, RA DIFFUSERS.
- 3 14/14 EA DUCT UP THROUGH ROOF AND CONNECT TO EF-1.
- 4 EXISTING SA, RA DUCTWORK AND DIFFUSERS TO REMAIN AND TO BE REUSED.
- 5 FULL SIZE UNIT OPENING DOWN TO ACOUSTICALLY LINED SA, RA PLENUM.
- 6 PROVIDE 1" THICK ACOUSTIC LINING AS INDICATED.
- 7 4" CONCENTRIC VENT UP THRU ROOF.
- 8 PROVIDE WIREMESH SCREEN AT RA DUCT TERMINATION. UPSIZE THE INTAKE OPENING BY 30%.

MECHANICAL PLAN

3/32" = 1'-0"

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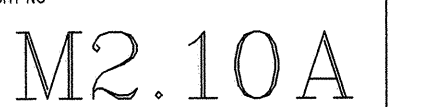


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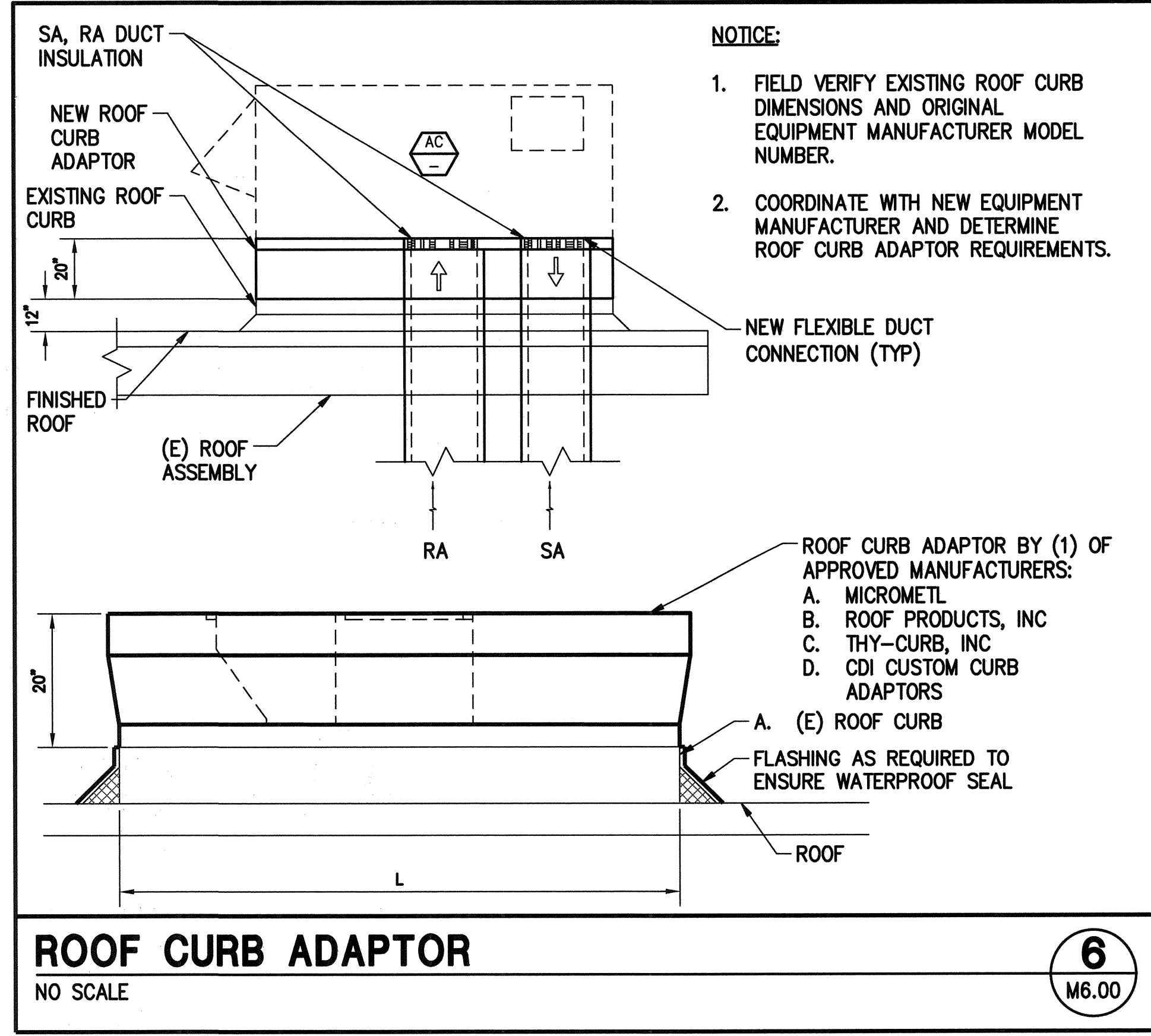
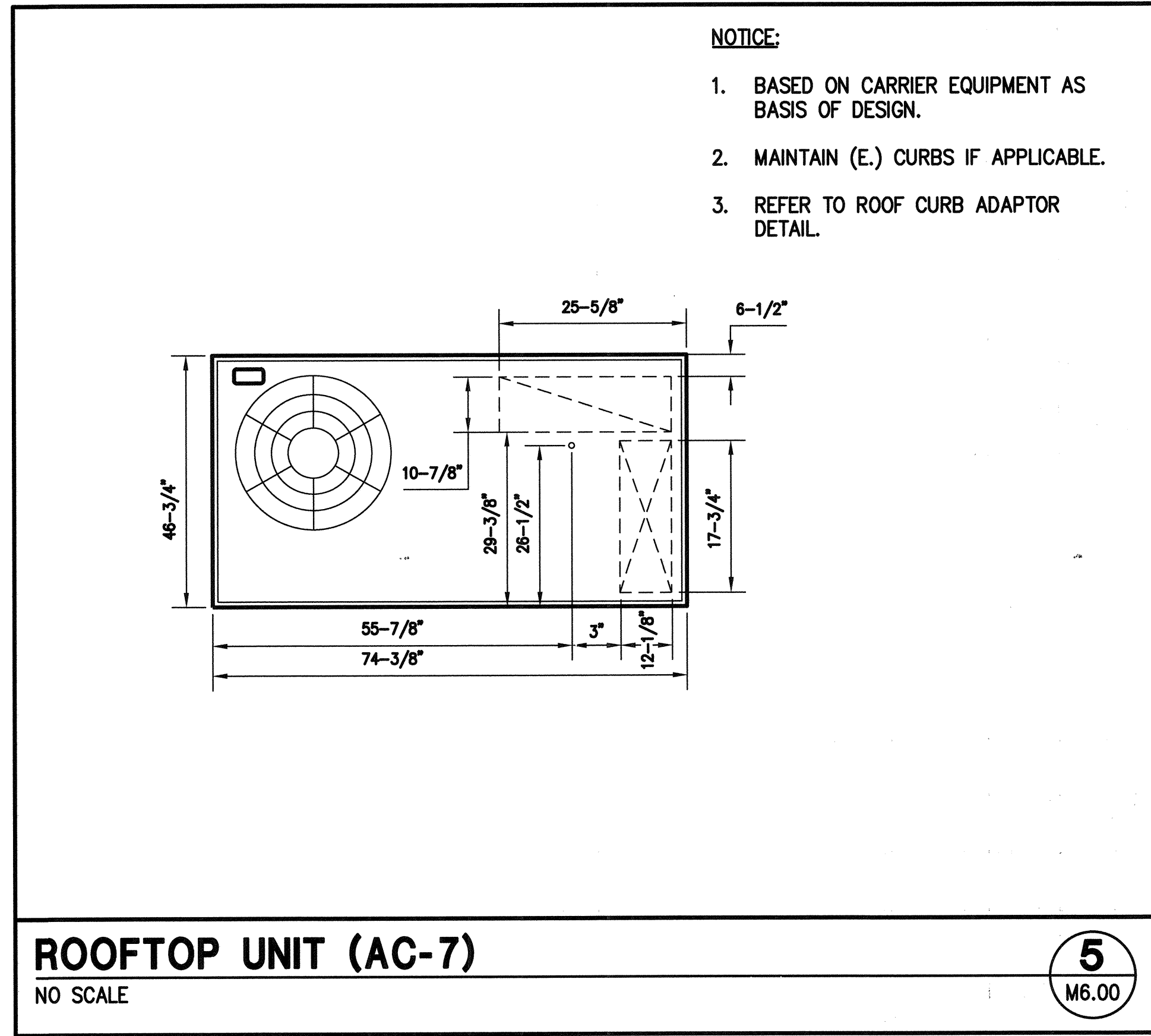
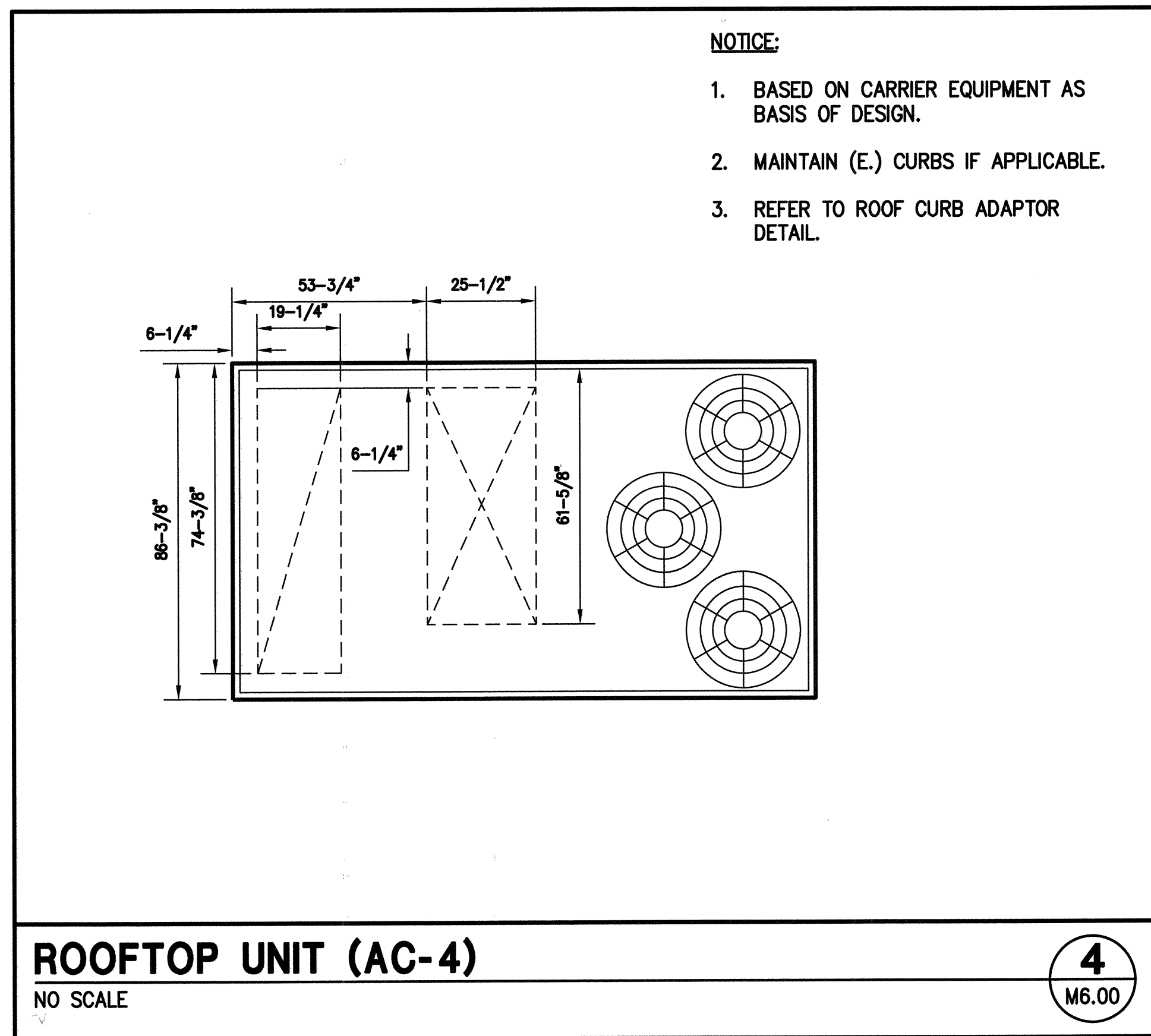
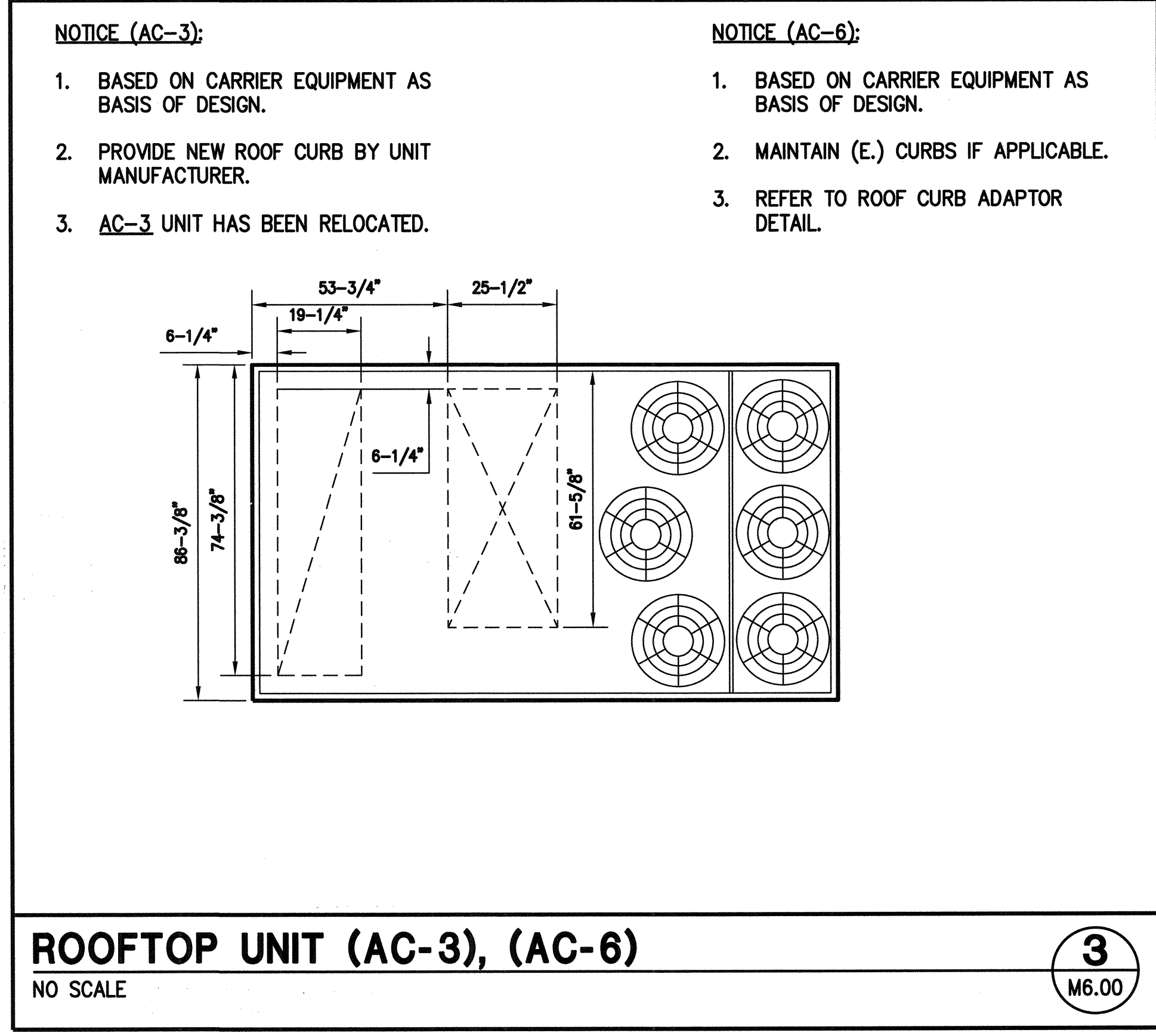
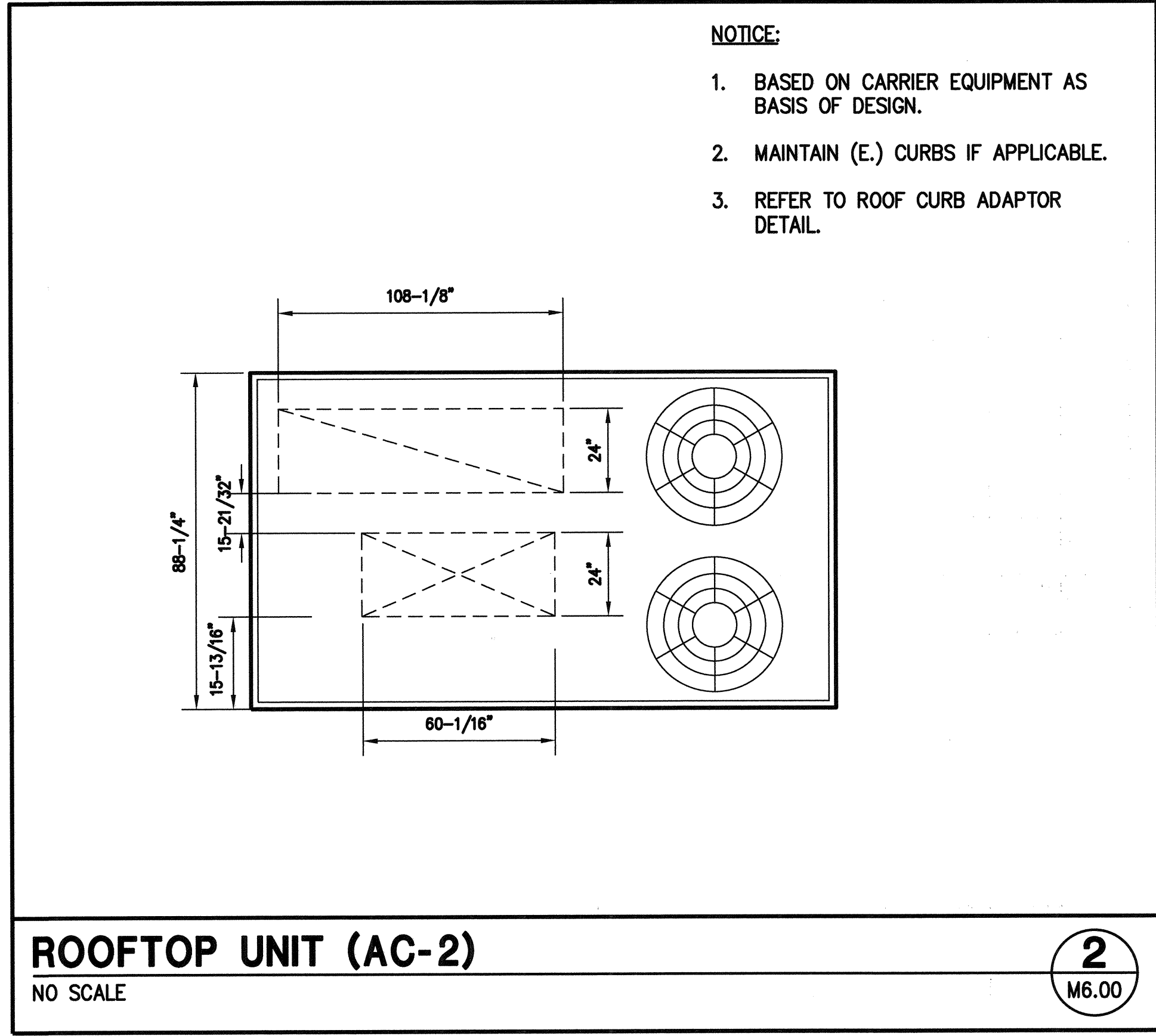
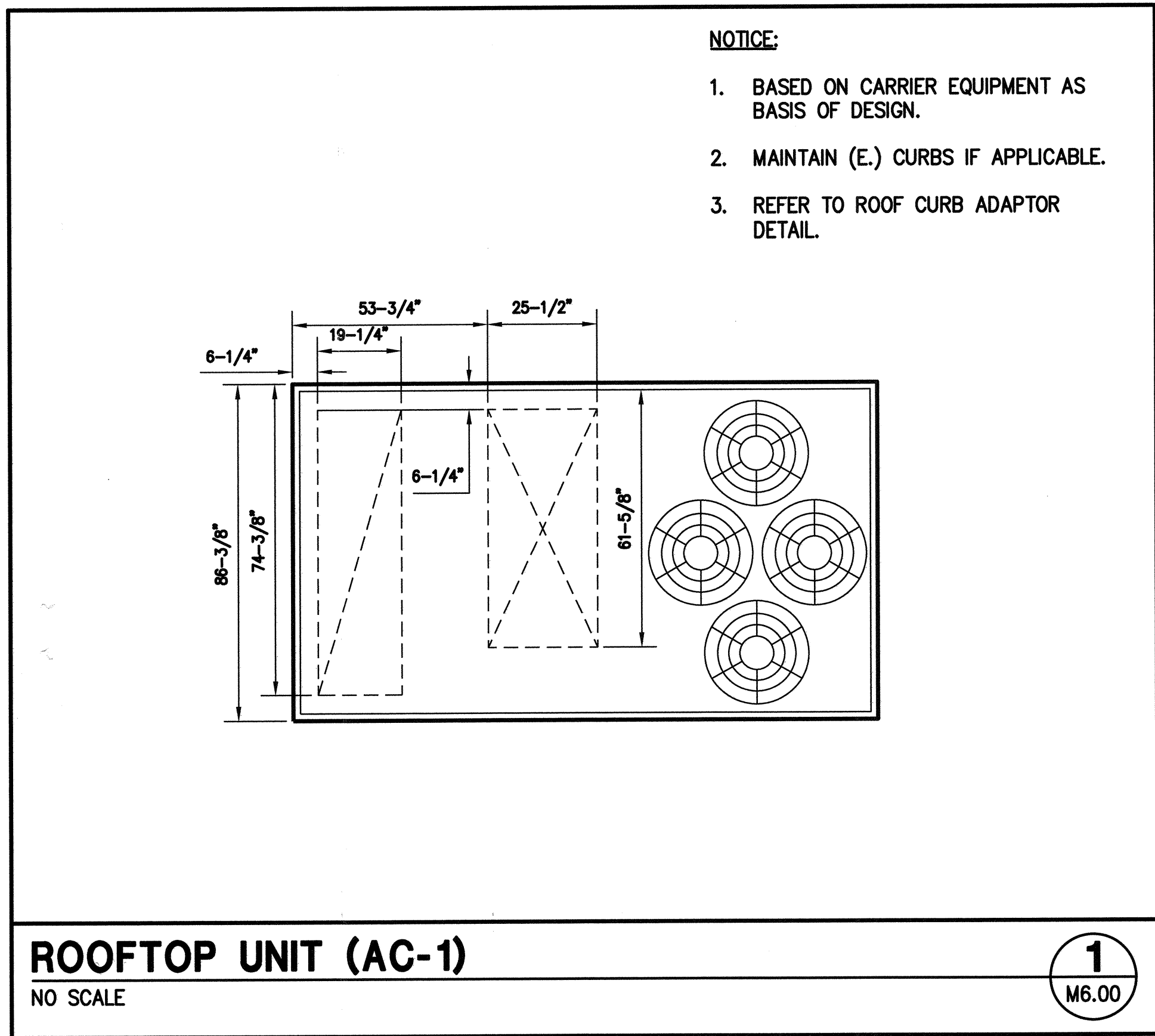
- ① EXISTING DUCTWORK AND ASSOCIATED SA, RA DIFFUSERS TO REMAIN.
- ② NEW SHEET-METAL DUCTWORK AND NEW SA, RA DIFFUSERS.
- ③ 14/14 EA DUCT UP THROUGH ROOF AND CONNECT TO EF-1.
- ④ EXISTING SA, RA DUCTWORK AND DIFFUSERS TO REMAIN AND TO BE REUSED.
- ⑤ FULL SIZE UNIT OPENING DOWN TO ACOUSTICALLY LINED SA, RA PLENUM.
- ⑥ PROVIDE 1" THICK ACOUSTIC LINING AS INDICATED.
- ⑦ 4" CONCENTRIC VENT UP THRU ROOF.
- ⑧ PROVIDE WIREMESH SCREEN AT RA DUCT TERMINATION. UPSIZE THE INTAKE OPENING BY 30%.

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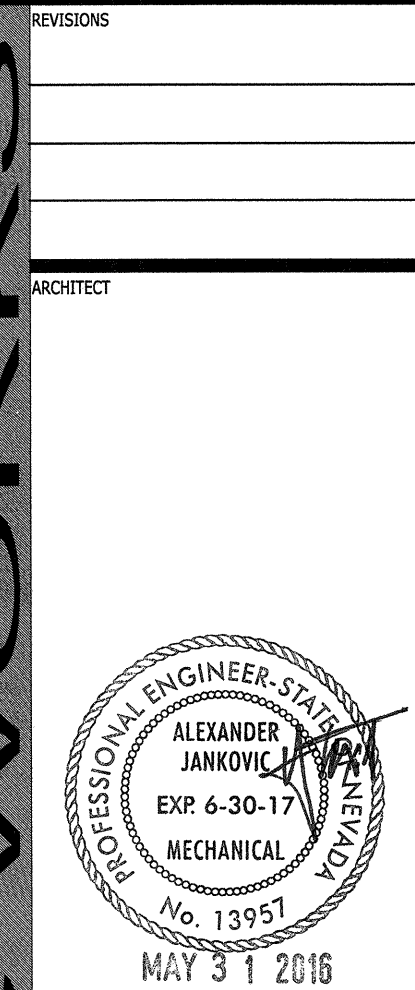
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REVIEWED FOR CODE COMPLIANCE
JUN 28 2016 DK
BUREAU VERITAS NORTH AMERICA, INC.



CHARLESTON HEIGHTS COMMUNITY CENTER
- Renovation -



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 384-5108

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SCALE:
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SHT NO:

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