

GENERAL NOTES/ ACCESSIBILITY

1. THESE DRAWINGS AND COPIES THEREOF ARE LEGAL INSTRUMENTS OF SERVICE, AND REMAIN THE PROPERTY OF THE CONTRACTOR FOR THE USE OF THE OWNER AND AUTHORIZED AGENTS ON THE DESIGNATED PROJECT ONLY.
2. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL CAREFULLY AND THOROUGHLY EXAMINE THE PROJECT SITE, INCLUDING ALL EXISTING CONDITIONS, BEFORE BEGINNING WORK. THE DIMENSIONS OF THE PROJECT SITE, INCLUDING ALL EXISTING CONDITIONS, SHALL BE REPORTED TO THE DESIGNER IMMEDIATELY BY THE DESIGNER IN WRITING BEFORE BEGINNING WORK.
3. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL REVIEW AND THOROUGHLY EXAMINE ALL EXISTING CONDITIONS, INCLUDING ALL EXISTING CONDITIONS, BEFORE BEGINNING WORK. THE DIMENSIONS OF THE PROJECT SITE, INCLUDING ALL EXISTING CONDITIONS, SHALL BE REPORTED TO THE DESIGNER IMMEDIATELY BY THE DESIGNER IN WRITING BEFORE BEGINNING WORK.
4. ALL CONSTRUCTION, FABRICATION AND INSTALLATIONS SHALL CONFORM TO THE LATEST EDITIONS OF THE U.S. NATIONAL BUILDING CODE, AS APPLICABLE, AND ALL OTHER APPLICABLE CODES AND ORDINANCES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
5. EACH SUB-CONTRACTOR IS CONSIDERED A PROFESSIONAL IN HIS RESPECTIVE FIELD AND SHALL BE RESPONSIBLE FOR THE QUALITY OF HIS WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE OVERALL QUALITY OF THE PROJECT.
6. DUE TO DIFFERENCES IN PROCESSES, THESE PLANS MAY NOT BE ACCURATE TO SCALE. ALL DIMENSIONS SHALL BE TO THE FACE UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE TO THE FACE UNLESS OTHERWISE NOTED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF HIS WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE OVERALL QUALITY OF THE PROJECT.
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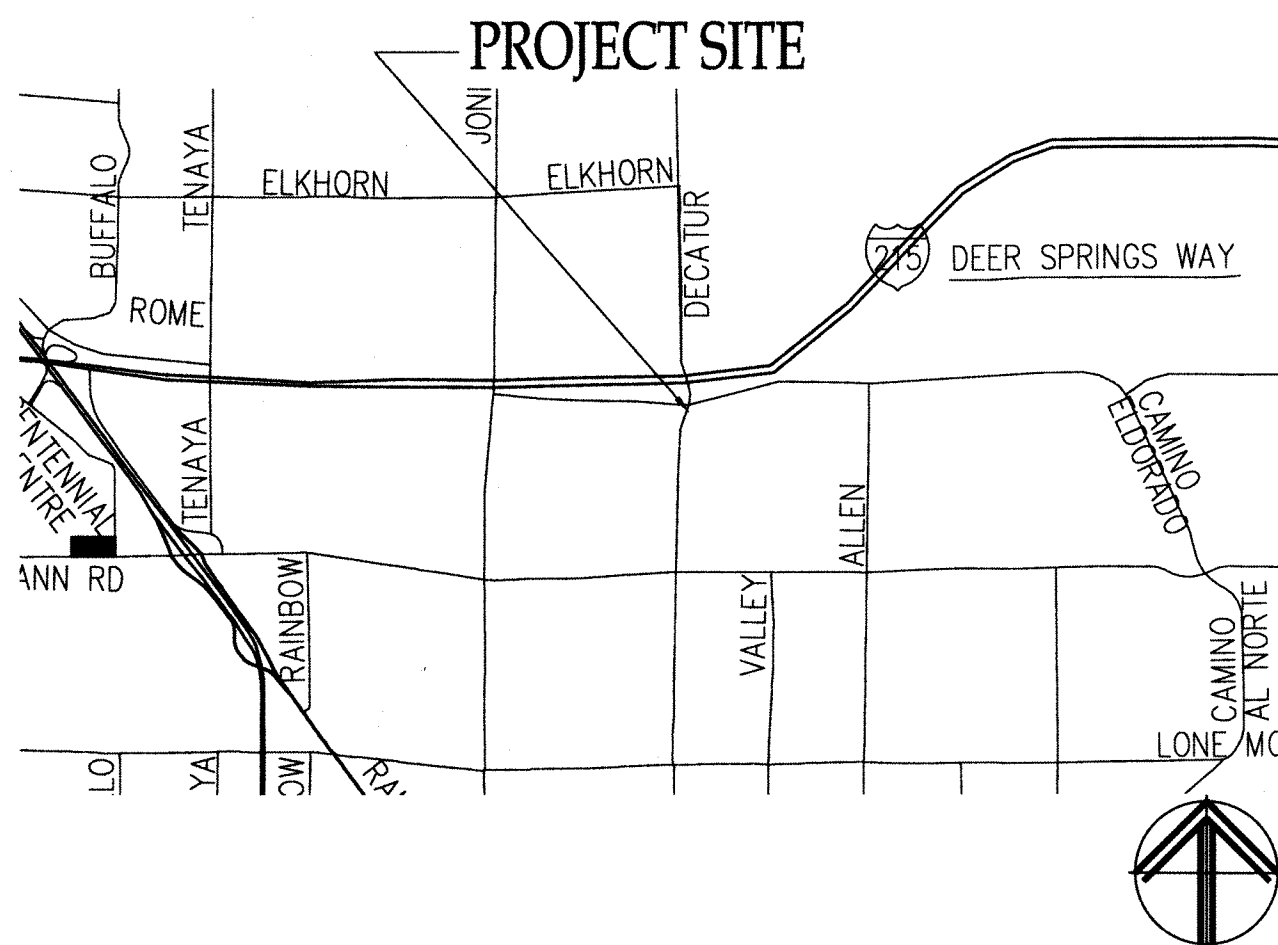
ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	EQUIP.	EQUIPMENT	LGTH.	LENGTH	SHWR.	SHOWER
A.C.T.	ACOUSTIC TILE	EXH.	EXHAUST	LI.	LIGHT	SIM.	SIMILAR
A.C.	AIR CONDITIONING	EXST.	EXISTING	MJL.	MANHOLE	S.C.	SOLID CORE
ALUM.	ALUMINUM	EXP.	EXPOSED	MAT.	MATERIAL	SPEC.	SPECIFICATION
ALT.	ALTERNATING	EXP.	EXPOSED STRUCTURE	MTL.	METAL	ST.STL.	STAINLESS STEEL
A.B.	ANCHOR BOLT	ASBVE	AS ABOVE	MEZZ.	MEZZANINE	STD.	STANDARD
ARCH.	ARCHITECT	EXT.	EXTERIOR	MIN.	MINIMUM	STRUC.	STRUCTURE
ARCHT.	ARCHITECTURAL	F.O.S.	FACE OF STUD	MISC.	MISCELLANEOUS	SUSP.	SUSPENDED
A.D.	AREA DRAIN	F.B.R.	FIBERGLASS REINFORCED PANEL	M.R.	MOISTURE RESISTANT	SW.BRD.	SWITCH BOARD
ASB.	ASBESTOS	FIN.	FINISH	NOM.	NOMINAL	SYM.	SYMMETRICAL
A.C.	ASPHALTIC CONCRETE	FIXT.	FIXTURE	N.I.C.	NOT IN CONTRACT	TEL.	TELEPHONE
BSMT.	BASEMENT	FLR.	FLOOR	OC.	OCCUPANCY	TV.	TELEVISION
BM.	BEAM	F.D.	FLOOR DRAIN	OC.	ON CENTER	THCK.	THICK
BLK.	BLOCK	FLOR.	FLOOR	O.D.	OUTSIDE DIAMETER	T.P.	TOP OF PAVEMENT
BLDG.	BLOCKING	FLU.	FLUORESCENT	OF	OF	T.W.	TOP OF WALL
BRD.	BOARD	FTG.	FOOTING	O.R.D.	OVERFLOW ROOF DRAIN	TYP.	TYPICAL
BTM.	BOTTOM	FRN.	FOUNDATION	P.D.	PAINTED	UNO.	UNLESS NOTED OTHERWISE
BLDG.	BUILDING	FRMG.	FRAMING	PLYWD.	PLYWOOD	U.B.C.	UNIFORM BUILDING CODE
CLG.	CEILING	FTT.	FUTURE	P.L.	PROPERTY LINE	UR.	URINAL
C.L.	CENTERLINE	FT.	FOOT, FEET	Q.T.	QUARRY TILE	V.T.R.	VENT THROUGH ROOF
C.T.	CERAMIC TILE	GA.	GAUGE	RAD.	RADIUS	V.	VENT
CONE.	CONCRETE	G.C.	GENERAL CONTRACTOR	REF.	REFERENCE	VERT.	VERTICAL
CMU.	CONCRETE MASONRY UNIT	GL.	GLASS	REFL.	REFLECTED	VEST.	VESTIBULE
CONN.	CONNECTION	GYP.	GYPSON BOARD	REIN.	REINFORCED	V.C.P.	VENTILATION COMPOSITION
CONSTR.	CONSTRUCTION	H.R.	HANDRAIL	REQ.	REQUIRED	W.C.	WATER CLOSET
C.J.	CONSTRUCTION JOINT	HTR.	HEATER	RENT.	REINFORCED	W.H.	WATER HEATER
CONT.	CONTINUOUS	HGT.	HEIGHT	REQ.	REQUIRED	W.	WATER
CONTR.	CONTRACTOR	H.C.	HOLLOW CORE	RENTS.	REQUIREMENTS	W.	WATER
CNTR.	COUNTER	H.O.	HORIZONTAL	RESIL.	RESILIENT	W.	WATER
DEPT.	DEPARTMENT	H.B.	HOSE BIBB	REV.	REVISION	W.C.	WATER CLOSET
DET.	DETAIL	H.W.	HOT WATER	R.D.	ROUGH DRAIN	W.H.	WATER HEATER
DM.	DIMENSION	H.C.	HOLLOW CORE	R.FG.	ROOFING	W.	WATER
DRG.	DRAWING	INFO.	INFORMATION	R.M.	ROOM	W.	WATER
DRYW.	DRYWALL	IN.	INCH INCHES	R.O.	ROUGH OPENING	W.	WATER
DS.	DOWNSPUT	ID.	INSIDE DIAMETER	R.D.	ROUGH DRAIN	W.	WATER
D.F.	DOWNSPUT	INSUL.	INSULATION	R.C.	ROUGH OPENING	W.	WATER
EA.	EACH	KIT.	KITCHEN	R.D.	ROUGH DRAIN	W.	WATER
ELC.	ELECTRIC	LAM.	LAMINATED	SCHED.	SCHEDULE	W.	WATER
ENCL.	ENCLOSURE	LAT.	LATERAL	SCR.	SCREW	W.	WATER
RQ.	EQUAL	LAV.	LAVATORY	SECT.	SECTION	W.	WATER

SYMBOLS

1	DETAIL NUMBER	B	DRAWING NUMBER
1	MAIN TITLE	C	INT. ELEVATION REFERENCE
1	DETAIL NUMBER	D	SHEET NUMBER
1	DETAIL REFERENCE	1	ELEVATION REFERENCE
1	SHEET NUMBER	1	SECTION REFERENCE
1	DRAWING NUMBER	1	GRID REFERENCE
1	ELEVATION REFERENCE	1	DOOR TYPE
1	SHEET NUMBER	A	WINDOW TYPE

VICINITY MAP



NEVADA WELFARE TENANT IMPROVEMENT

6390 N. DECATUR BLVD. STE 100
N. LAS VEGAS, NEVADA 89130

PROJECT TEAM

GENERAL CONTRACTOR	DESIGN BUILD TEAM	MECHANICAL	PLUMBING	ELECTRICAL
NAME: LM CONSTRUCTION CO. ADDRESS: 5075 CAMERON #H LAS VEGAS, NV 89118 PHONE: 702-262-6032 FAX: 702-262-6150	NAME: LM CONSTRUCTION CO. ADDRESS: 5075 CAMERON #H LAS VEGAS, NV 89118 PHONE: 702-262-6032 FAX: 702-262-6150	NAME: A-1 MECHANICAL ADDRESS: 5985 POLARIS AVE. LAS VEGAS, NEVADA 89118 PHONE: (702) 363-6222 FAX: (702) 914-5808	NAME: U.S. PLUMBING ADDRESS: 201 E. BROOKS AVE. N. LAS VEGAS, NV 89030 PHONE: (702) 647-3552	NAME: ADOBE ELECTRIC ADDRESS: 4360 W. TOMPKINS AVE., STE C LAS VEGAS, NV 89103 PHONE: (702) 362-5557

SITE MAP

SCALE: N.T.S.



CODE ANALYSIS:

1. DESIGN CODE FOR NEW CONSTRUCTION:	2012 IBC, UMC, UPC, IFC, 2009 IECC AND 2011 NEC, ICC A117.1-2009, ALL SOUTHERN NEVADA CODE AMENDMENTS
2. OCCUPANCY CLASSIFICATION:	B/A-3
3. TYPE OF CONSTRUCTION:	V-B
4. FIRE SPRINKLERS:	YES, (NFPA 13)
5. FIRE ALARM:	PROVIDE ALARM
6. HEIGHT:	22'-0"
7. STORIES:	ALLOWABLE: 1-STORY, ACTUAL: 1-STORY
8. AREA:	BLDG AREA: 14,112 S.F.
9. OCCUPANT ALLOWABLE LOAD:	TENANT FLOOR AREA: 12,216 S.F. B: BUSINESS OCCUPANT LOAD: 7,185 S.F./100 = 72 OCC. A-3: LOBBY OCCUPANT LOAD: 2,724 S.F./15 = 182 OCC. B: TRAINING OCCUPANT LOAD: FIXED SEATING-31 OCC. B: TOILET OCCUPANT LOAD: 892 S.F./70 = 12 OCC. TOTAL=285 OCC
10. NUMBER OF EXITS:	12- PROVIDED
11. FIRE RESISTANCE RATING BLDG ELEMENTS:	DEMISING WALL 1 HOUR RATED
12. FIRE RESISTANCE OF EXTERIOR WALLS DUE TO LOCATION ON PROPERTY:	NONE REQUIRED
13. PROTECTED OPENINGS DUE TO LOCATION ON PROPERTY AND MAXIMUM WALL OPENINGS:	NOT REQUIRED
14. SPACES REQUIRING FIRE RESISTANT RATED SEPARATION:	NONE REQUIRED
15. NON-SEPARATED OR SEPARATED USE CALCULATIONS:	NON-SEPARATED OCCUPANCIES A-3 OCC. ALLOWABLE AREA = 6,000 S.F. + 300% SPRINKLER INCREASE = 24,000 S.F. B OCC. ALLOWABLE AREA = 9,000 S.F. + 300% SPRINKLER INCREASE = 36,000 S.F.
16. ROOF COVERING MATERIAL:	EXISTING
17. FIXTURE (PLUMBING) REQUIREMENTS:	PLUMBING LOAD: TOTAL OCCUPANT LOAD 325, 325/2 = 163 MEN, 163 WOMEN TOTAL REQ. W/C = ASSEMBLY + OFFICE = FIXTURES TOTAL REQ. FEMALE W/C = 91/65 + (50/25 + 2/40) = 3.45 = 4 FIXTURES TOTAL REQ. MALE W/C = 91/125 + (50/25 + 2/40) = 2.78 = 4 FIXTURES TOTAL REQ. FEMALE LAV. = 91/200 + 52/40 = 1.76 = 3 FIXTURES TOTAL REQ. MALE LAV. = 91/200 + 52/40 = 1.76 = 3 FIXTURES 2- STANDARD DRINKING FOUNTAINS PROVIDED 2- HANDICAP ACCESSIBLE DRINKING FOUNTAINS PROVIDED 1-SERVICE SINK PROVIDED
18. SPECIAL INSPECTIONS REQUIRED:	NONE REQUIRED
19. IECC COMPLIANCE REPORT:	SEE SHEET T14.0

SHEET INDEX

REV.	NO.	DESCRIPTION
		CITY OF NORTH LAS VEGAS PLANNING & ZONING DEPARTMENT PLANS APPROVED 9/30/15
	C 1.0	COVER SHEET
	AS1.0	SITE PLAN
	AE1.0	EGRESS PLAN
	D 1.0	DEMO PLAN
	T1 1.0	FLOOR PLAN
	T1 2.0	REFLECTED CEILING PLAN
	T1 3.0	REST ROOM ELEVATIONS: MENS REST ROOM
	T1 3.1	REST ROOM ELEVATIONS: WOMENS REST ROOM
	T1 3.2	REST ROOM ELEVATIONS: MENS REST ROOM
	T1 3.3	REST ROOM ELEVATIONS: WOMENS REST ROOM
	T1 4.0	DOOR & WINDOW SCHEDULE
	T1 5.0	DETAILS
	M1.0	MECHANICAL NOTES & SCHEDULES
	M2.0	MECHANICAL FLOOR PLAN
	M2.1	MECHANICAL FLOOR PLAN
	M3.0	MECHANICAL ROOF PLAN
	M4.0	MECHANICAL IECC
	P1.0	PLUMBING PLAN
	E1.0	ELECTRICAL PANEL SCHEDULES & SINGLE LINE
	E2.0	ELECTRICAL LIGHTING PLAN
	E3.0	ELECTRICAL POWER PLAN
	E4.0	ELECTRICAL HVAC PLAN
	E5.0	AUXILIARY CONDUIT PLAN
	E6.0	IECC ELECTRICAL CALCULATIONS

COVER SHEET

NEVADA WELFARE
6390 N. DECATUR BLVD.
N. LAS VEGAS, NV 89130

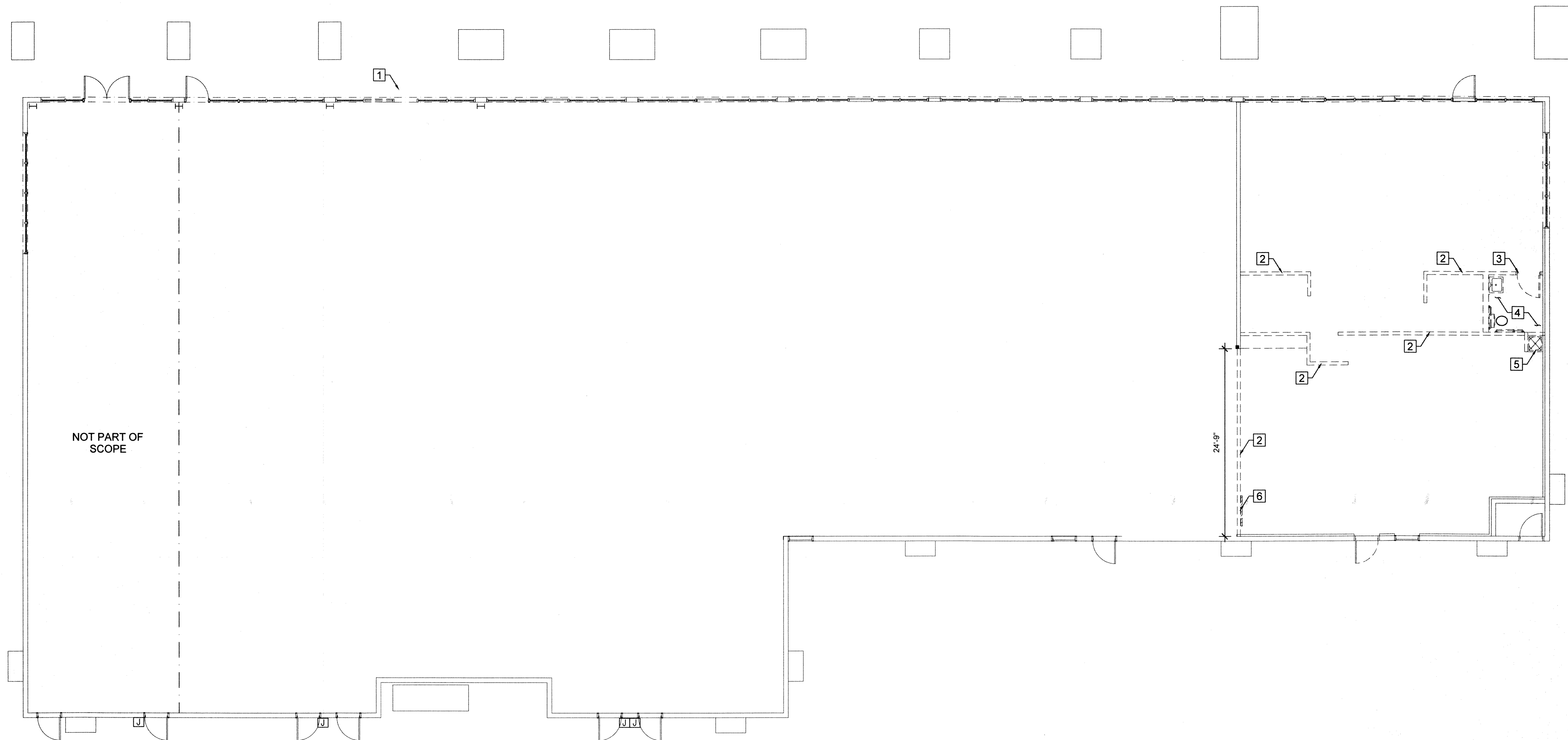
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JOB NUMBER: 2029
DATE: 07-16-15

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1 FLOOR DEMO PLAN

KEY NOTES (DEMO FLOOR PLAN)	
1	EXIST. STOREFRONT DOOR & WINDOW SYSTEMS TO BE REMOVED
2	EXIST. INTERIOR WALLS TO BE REMOVED.
3	EXIST. DOOR TO BE REMOVED
4	EXIST. RESTROOM TO BE REMOVED.
5	EXIST. MOP SINK TO BE REMOVED.
6	DEMO/ RELOCATE ELECTRICAL PANEL

DEMO WALL LEGEND	
	EXISTING WALLS TO REMAIN
	DEMO EXISTING WALLS

CITY OF NORTH LAS VEGAS
BUILDING SAFETY
SEP 29 2015
Reviewed and Accepted
Edgar Surtia

DEMOLITION PLAN

NEVADA WELFARE
6390 N. DECATUR BLVD.
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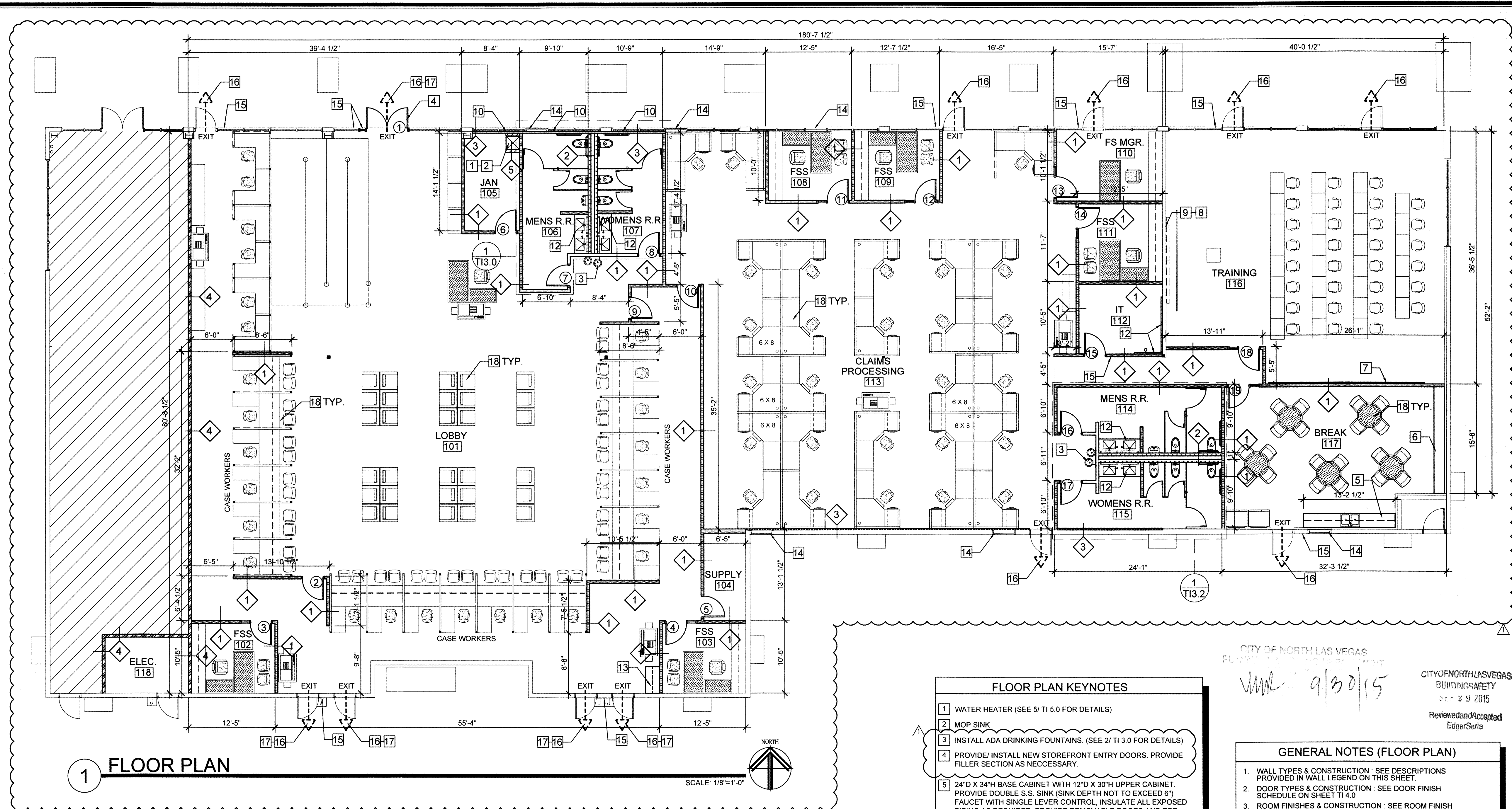
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These plans are prepared and submitted by the contractor for the purpose of obtaining a permit from the City of North Las Vegas Building Safety Department. The contractor warrants that the information provided is true and correct to the best of their knowledge and belief. The contractor warrants that the information provided is not intended to be used for any other purpose than the specific project identified in the permit application. The contractor warrants that the information provided is not intended to be used for any other purpose than the specific project identified in the permit application. The contractor warrants that the information provided is not intended to be used for any other purpose than the specific project identified in the permit application.

CONTRACTOR:
LM CONSTRUCTION CO.
(Company Name)
0042596A
(Contractors License #)
MIKE BROWN
(Plans Prepared By)

(Signature)



FLOOR PLAN KEYNOTES

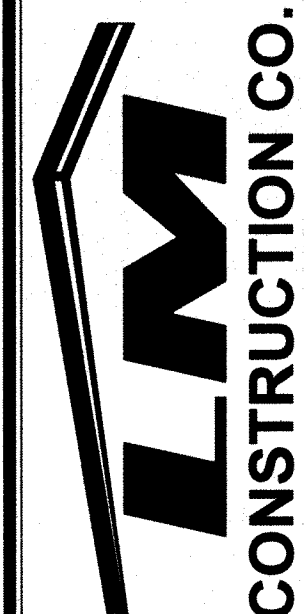
- 1 WATER HEATER (SEE 5/ TI 5.0 FOR DETAILS)
- 2 MOP SINK
- 3 INSTALL ADA DRINKING FOUNTAINS. (SEE 2/ TI 3.0 FOR DETAILS)
- 4 PROVIDE/INSTALL NEW STOREFRONT ENTRY DOORS. PROVIDE FILLER SECTION AS NECESSARY.
- 5 24"D X 34"H BASE CABINET WITH 12"D X 30"H UPPER CABINET. PROVIDE DOUBLE S.S. SINK (SINK DEPTH NOT TO EXCEED 6") FAUCET WITH SINGLE LEVER CONTROL. INSULATE ALL EXPOSED PIPING AS REQUIRED. PROVIDE REMOVABLE DOORS AND TOE KICK FOR ACCESSIBILITY.
- 6 18"D COUNTER TOP @ 42" A.F.F. WITH 36" W DROPPED COUNTER @ 34" A.F.F. AS SHOWN. (OPEN BELOW) SUPPORT WITH WALL RECESSED METAL ANGLE BRACKET TYPICAL.
- 7 PROVIDE BLOCKING IN WALL FOR TENANT PROVIDED 4' X 8' WHITEBOARDS.
- 8 INSTALL PROJECTION SCREEN AND CEILING MOUNTED BRACKET 18" OFF WALL FOR SUPPORT. COORDINATE WITH TENANT.
- 9 PROVIDE BACKING IN WALL FOR TENANT PROVIDED FLAT SCREEN TELEVISIONS. TELEVISIONS TO BE CENTERED EDGE TO EDGE BEHIND PROJECTOR SCREEN. VERIFY WITH TENANT ON FINAL LOCATION.
- 10 PROVIDE 2-1/2" STUD FURR OUT WITH GYP. BOARD @ EXISTING DOORS AND STOREFRONT AS SHOWN.
- 11 INSTALL (3) 4'X8' TELEPHONE BACKBOARDS (PAINT TO MATCH WALLS)
- 12 24" WALL-HUNG COUNTER TOP WITH (2) SINKS AND 4" SPLASH AND SKIRT. COUNTER TOP W/ 1-1/2" BULLNOSE EDGE TO BE NO HIGHER THAN 34" A.F.F. INSULATE ALL EXPOSED PIPES AS REQUIRED.
- 13 24"D X 34"H BASE CABINET WITH DOORS, AND 1 ROW OF DRAWERS (HORIZONTAL BELOW COUNTER TOP) AND 12"D X 30"H UPPER CABINET.
- 14 EXISTING EXTERIOR DOOR TO REMAIN LOCK AND REMOVE EXIT PASSAGE HARDWARE.
- 15 PROVIDE JUNCTION BOX AND CONDUIT FOR TENANTS CARD READER. CONTRACTOR TO SUPPLY AND INSTALL CIPHER LOCKS. FINAL LOCATIONS TO BE COORDINATED WITH TENANT.
- 16 EMERGENCY EXIT EGRESS
- 17 ADD PANIC DOOR HARDWARE
- 18 FURNITURE PROVIDED BY OTHERS ALL FURNITURE TO MEET ADA REQUIREMENTS
- 19 NOTE: ALL ROOMS DENOTED AS FSS STAND FOR FAMILY SERVICES SPECIALIST STAFF MEMBER.

GENERAL NOTES (FLOOR PLAN)

1. WALL TYPES & CONSTRUCTION : SEE DESCRIPTIONS PROVIDED IN WALL LEGEND ON THIS SHEET.
2. DOOR TYPES & CONSTRUCTION : SEE DOOR FINISH SCHEDULE ON SHEET TI 4.0
3. ROOM FINISHES & CONSTRUCTION : SEE ROOM FINISH SCHEDULE ON SHEET TI 4.0
4. ALL DIMENSIONS ARE REFERENCED TO FACE OF STUD UNLESS NOTED OTHERWISE.
5. INTERIOR WALL FINISHES IN REST ROOMS SHALL BE MOISTURE RESISTANT GYPSUM BOARD TAPED & PRIMED TO 48" A.F.F. SEE FINISH ON FINISH SCHEDULE TYPE "X" GYP. BRD FROM 48" A.F.F. TO CEILING W/ ORANGE PEEL TEXTURE. SEE ENLARGED RESTROOM PLANS AND ELEVATIONS. REST ROOM PLAN & FINISH SCHEDULE FOR MATERIAL ON SHEET TI 3.0.
6. ACCESSIBLE ENTRANCES TO TOILET FACILITIES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (PER ICC/ANSI A117.1 - 2003; CHAPTER 7)
7. MAINTAIN ALL EGRESS AS SHOWN ON SHEET TI 1.0.
8. ALL HARDWARE SHALL COMPLY WITH IBC 2012 & ICC/ANSI A117.1 - 2003)
9. ALL DOOR HARDWARE SHALL BE LEVER TYPE OPEN ABLE FROM ALL BUILDING INTERIOR WITHOUT SPECIAL KNOWLEDGE (SEE DOOR NOTES & SCHEDULE).

WALL LEGEND

- 1 PARTITION WALLS NEW 5/8" TYPE "X" GYP. BRD. BOTH SIDES OF 3-5/8" X 20 GA. METAL STUDS @ 24" O.C. W/ R-7 UNFACED BATT SOUND INSULATION (SEE DET. 2/ TI 5.0)
- 2 PARTITION WALLS NEW 5/8" TYPE "X" GYP. BRD. BOTH SIDES OF 6" X 20 GA. METAL STUDS @ 24" O.C. W/ R-7 UNFACED BATT SOUND INSULATION (SEE DET. 2/ TI 5.0)
- 3 FURRING WALL NEW 5/8" GYP. BRD. BOTH SIDES OF 2-1/2" X 25 GA. METAL STUDS @ 24" O.C. W/ R-11 UNFACED BATT INSULATION (SEE DET. 384/ TI 5.0)
- 4 1-HOUR RATED DEMISING WALLS -18'-0" MAXIMUM HEIGHT NEW 5/8" GYP. BRD. BOTH SIDES OF 6" X 20 GA. METAL STUDS @ 24" O.C. W/ R-11 UNFACED BATT INSULATION (SEE DET. 1/ TI 5.0)
- 5 PONY WALLS - 4'-0" HIGH NEW 5/8" PLYWOOD BOTH SIDES 20 GA. METAL STUDS @ 8" O.C. (SEE DET. 5/ TI 5.0)



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FLOOR PLAN

NEVADA WELFARE
6390 N. DECATUR BLVD.
N. LAS VEGAS, NV 89130

8-25-15 CNLV COMMENTS

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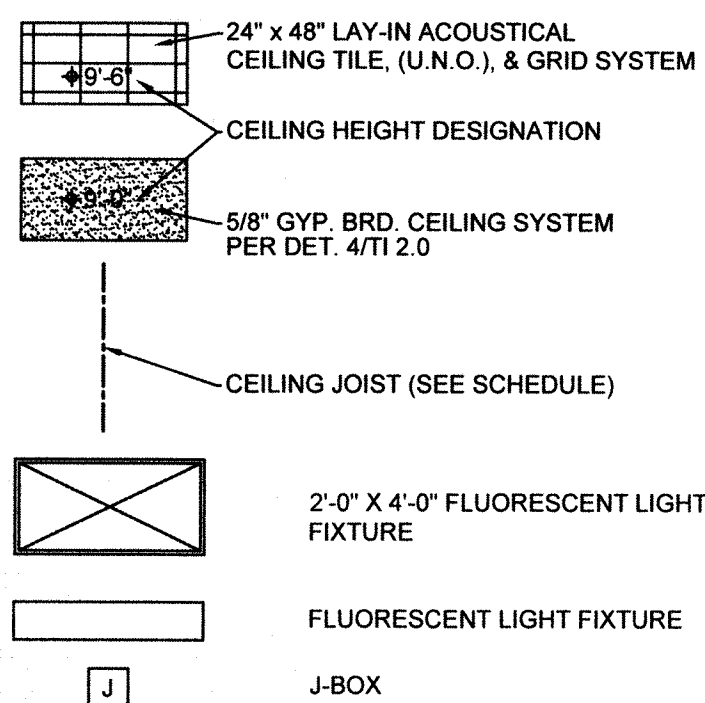
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CONTRACTOR:
Nevada Welfare Construction Co., LLC
(Company Name)
0042596A License #
MIKE BROWN
(Print Name)
(Signature)

GENERAL NOTES (CEILING PLAN)

- THIS PLAN IS FOR GENERAL COORDINATION REFERENCE. THE CONTRACTOR SHALL REFER TO ELECTRICAL, MECHANICAL, HVAC AND PLUMBING DOCUMENTS FOR ALL FIXTURE TYPES, PLACEMENTS AND QUANTITIES.
- AREA INCREASES FOR DRAFT STOP PLACEMENT AND MAXIMUM SPACING IS GOVERNED BY A.F.E.S. WITH 9,000 S.F. MAXIMUM AREA & 100 FT. MAXIMUM LENGTH IN ANY DIRECTION.
- CEILING GRID LAYOUT SHALL BE CENTERED IN EACH AREA AS PER THE CEILING PLAN PROVIDED ON THIS SHEET. ANY DIMENSIONS WHICH MAY BE INCLUDED ON THIS PLAN ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR TO VERIFY EXACT CENTER DIMENSIONS OF EACH ROOM PRIOR TO INSTALLATION OF SUSPENDED ACOUSTICAL GRID CEILING.
- 2012 IBC SEISMIC CATEGORY C, ALTERNATE INSTALLATION OF SUSPENDED CEILING SYSTEM (PER ESR-1308) SEE DETAIL 2/TI.2.0 INSTALLATION CONSISTS OF THE FOLLOWING COMPONENTS:
 - MINIMUM 7/8" MOLDING
 - GRID MUST BE ATTACHED ON TWO ADJACENT WALLS - OPPOSITE WALL REQUIRE BERC2 WITH 3/4" CLEARANCE.
 - BERC2 CLIPS MAINTAIN MAIN BEAM AND CROSS TIE SPACING, NO OTHER COMPONENTS REQUIRED.
 - HEAVY DUTY GRID SYSTEM AS IDENTIFIED PER ESR-1308
 - FOR CEILING AREAS EXCEEDING 2,500 S.F. A SEISMIC SEPARATION JOINTS WILL BE REQUIRED.
- NOTE: SUSPENDED CEILING TO COMPLY WITH ASTM C 635 & ASTM 636, ASCE 7-10 AS WELL AS CISCA REQUIREMENTS.

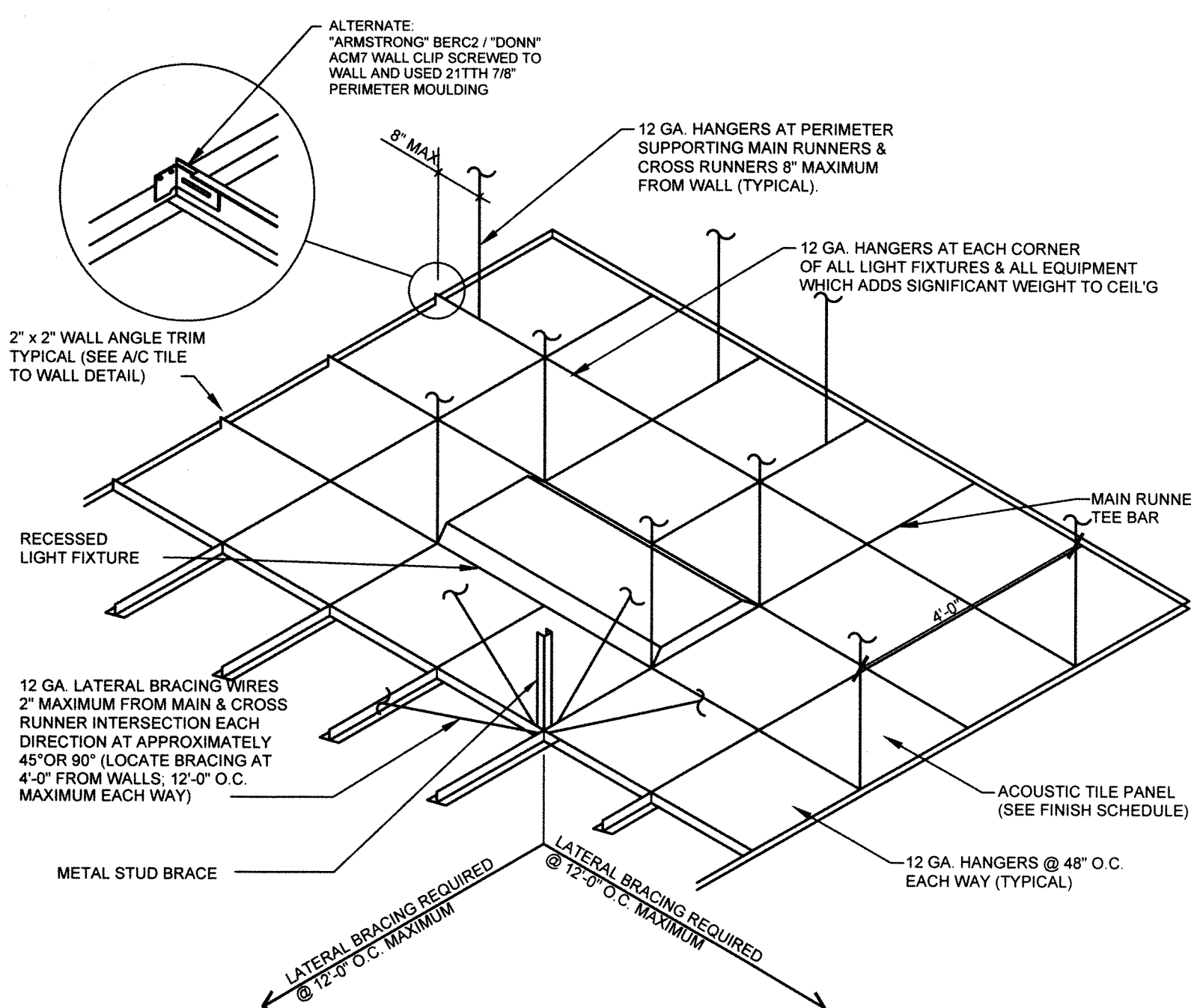
CEILING LEGEND



CEILING JOIST SCHEDULE

MAX. SPAN	JOIST TYP.	GA.	ACT SPACING	SHEET ROCK CLG. SPACING
6'-0"	3 5/8" X 1 5/8"	20	@ 48" O.C.	@ 24" O.C.
8'-0"	6" X 1 3/8"	20	@ 48" O.C.	@ 24" O.C.
10'-0"	6" X 1 3/8"	20	@ 48" O.C.	@ 24" O.C.
12'-0"	6" X 1 3/8"	18	@ 48" O.C.	@ 24" O.C.
14'-0"	8" X 1 5/8"	20	@ 48" O.C.	@ 24" O.C.
16'-0"	8" X 1 5/8"	18	@ 48" O.C.	@ 24" O.C.
18'-0"	10" X 1 5/8"	18	@ 48" O.C.	@ 24" O.C.
22'-0"	10" X 1 5/8"	16	@ 48" O.C.	@ 24" O.C.

NOTES:
1. PROVIDE 3-5/8"X1-1/4"X25 GA. FLAT STUD BRACING ABOVE AT 4'-0" O.C. PERPENDICULAR TO JOISTS. SCREWS TO JOIST TOP FLANGE AT EACH CONTACT AND SCREW TO TRACK AT (EXISTING) DEMISING WALL.



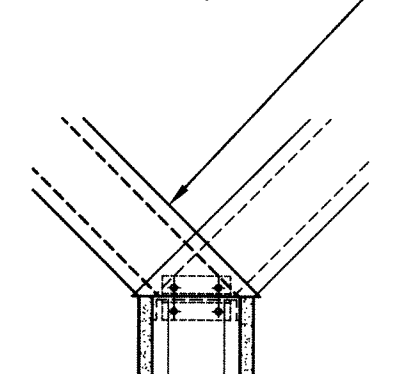
2 SUSPENDED CEILING SYSTEM

SCALE: N.T.S.

CEILING KEYNOTES

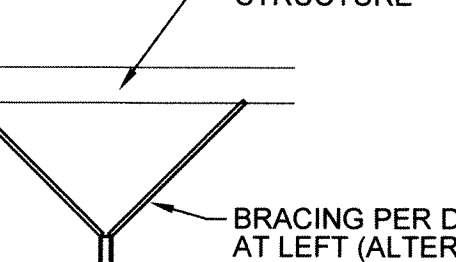
- HARD LID (SEE DET. 4/TI.2.0)
- PROVIDE BLOCKING AND J BOX FOR POWER/DATA IN CEILING FOR PROJECTOR OR TVS.
- PROVIDE JUNCTION BOX IN CEILING FOR TENANT PROVIDED VIDEO CONFERENCE SPEAKERS AND MICROPHONES.

3 5/8" x 20 GA. MTL. BRACING @ 48" O.C. (ALTERNATE EACH BRACE) TO BOTTOM OF ROOF STRUCTURE W/ #8 SCREWS



BRACING OPTION
SCALE: N.T.S.

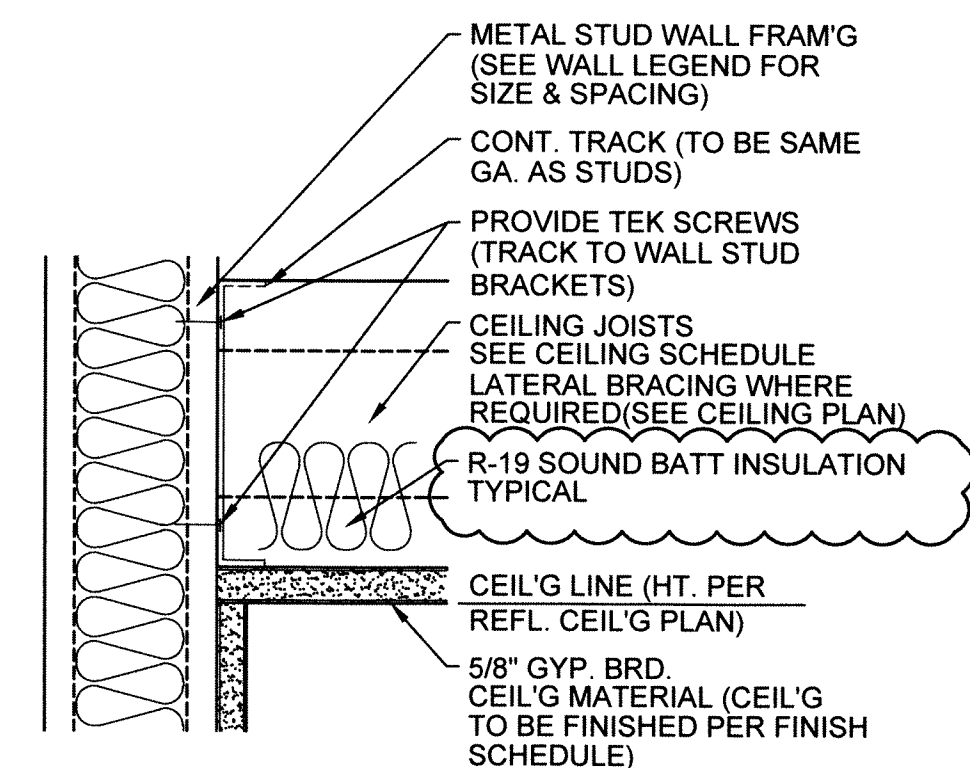
EXISTING ROOF STRUCTURE



WALL SECTION
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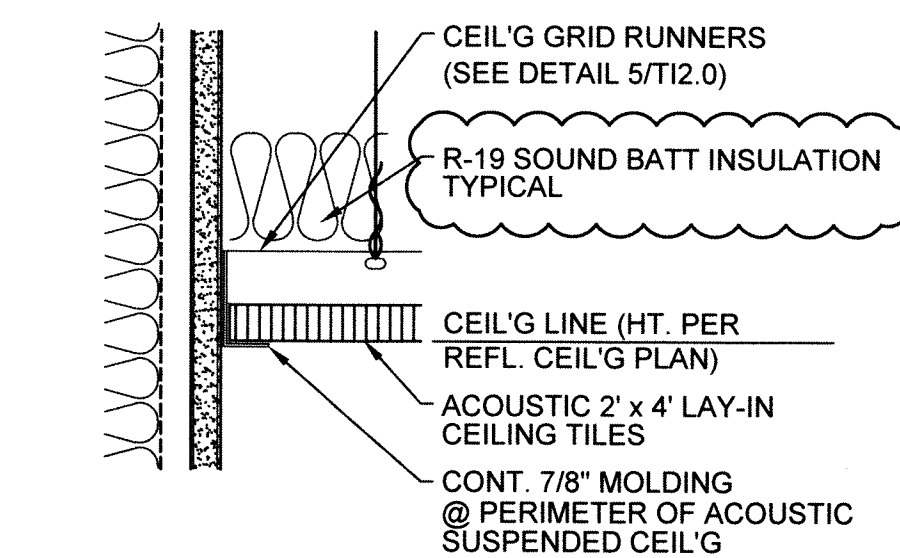
3 WALL BRACING

SCALE: 1-1/2"=1'-0"



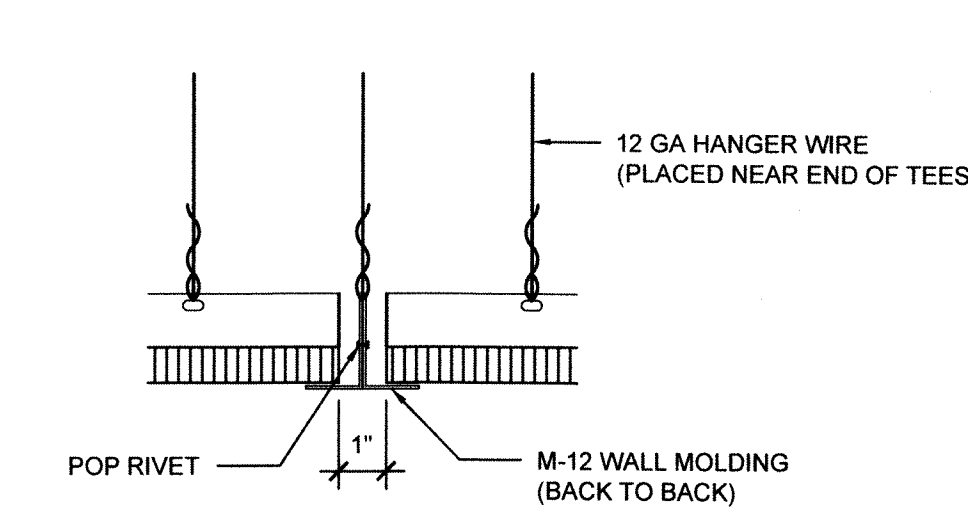
4 GYP. BRD. CEILING

SCALE: 3"=1'-0"



5 SUSPENDED CEILING

SCALE: 3"=1'-0"



6 ACT CEILING EXPANSION JT.

SCALE: 3"=1'-0"

REFLECTED CEILING PLAN

NEVADA WELFARE
6390 N. DECATUR BLVD.
NORTH LAS VEGAS, NV 89130

9-14-15	ONLY COMMENTS

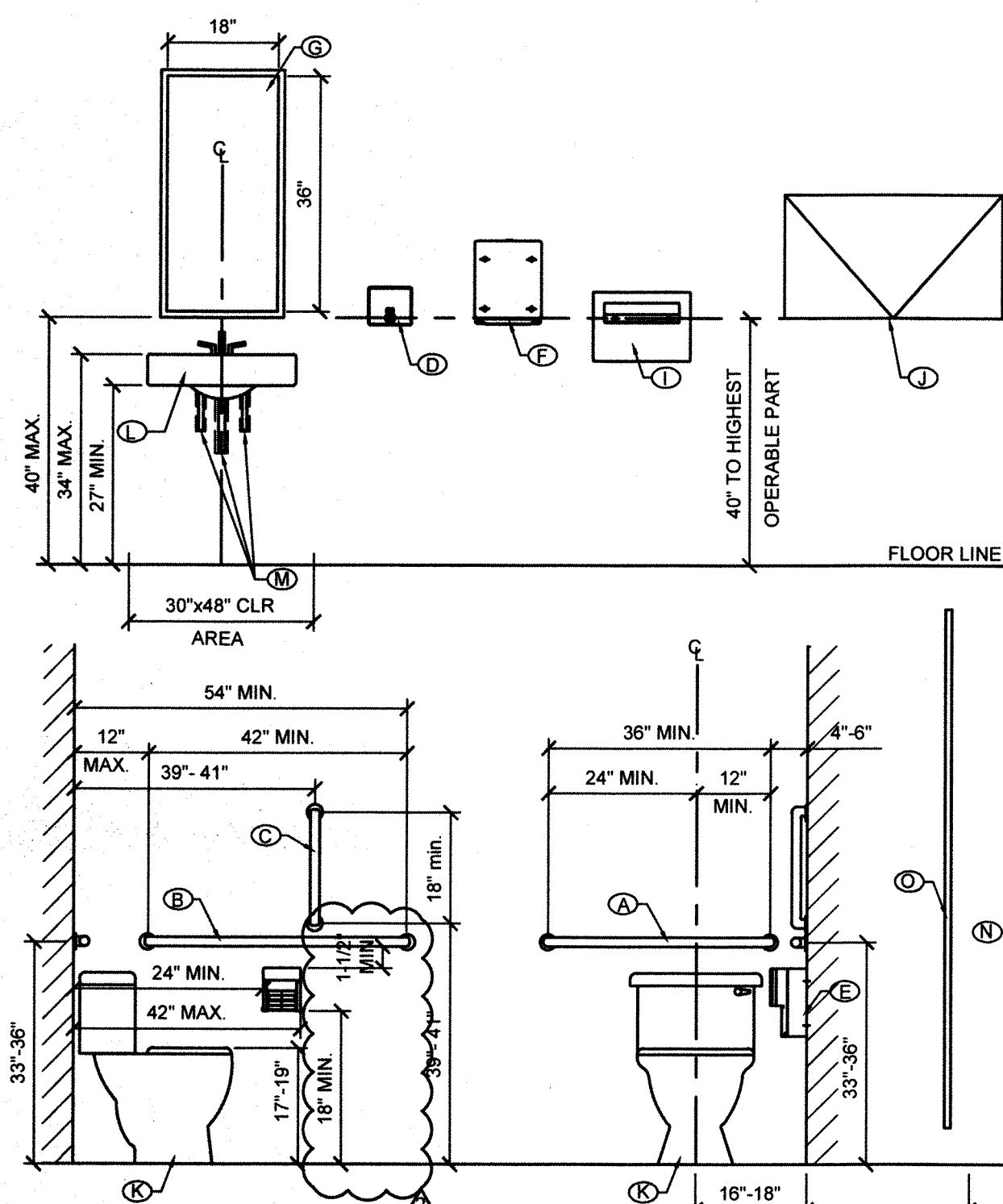
DRAWN BY: MS
CHECKED BY: MB
JOB NUMBER: 2029
DATE: 7-16-15

TI 2.0

CONTRACTOR:
These plans are prepared and submitted by the contractor for the project and are not to be used for any other project without the written consent of the contractor.
L.M. CONSTRUCTION CO., LLC
(Company Name)
0042596A
(Contractor License #)
MIKE BROWN
(Plans Prepared By)
M.B.
(Signature)
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L.M. CONSTRUCTION CO., LLC
5075 CAMERON SUITE #H
LAS VEGAS, NEVADA 89118
(702) 262-6032, FAX (702) 262-6150
NEVADA L.I.C. # 0042596A

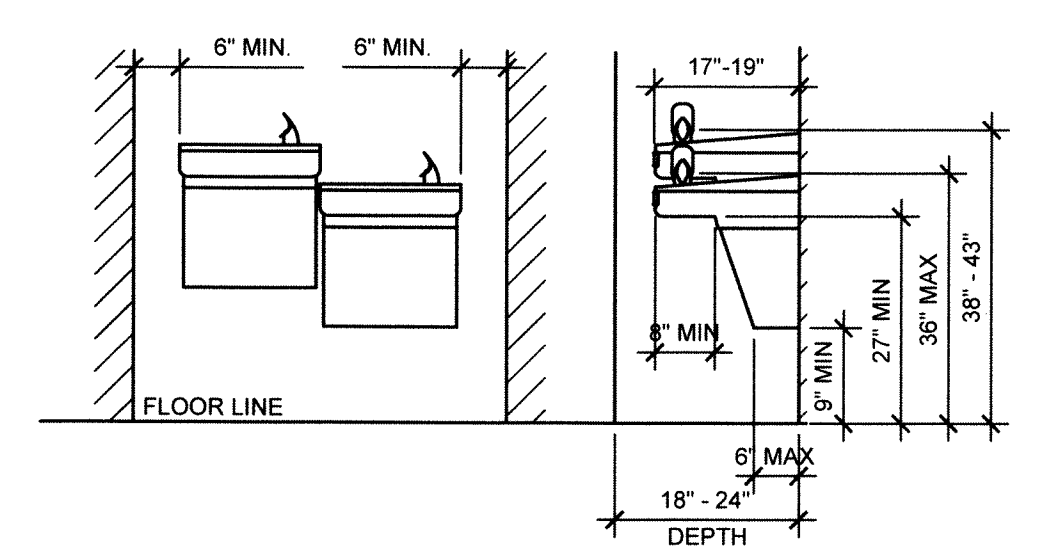
JOB SITE COPY



NOTE:
1. MOUNTING HEIGHT OF REST ROOM FIXTURES AND ACCESSORIES, PROVIDE BACKING AT ALL WALL MOUNTED FIXTURES AND EQUIPMENT.
2. ACCESSORIES TO BE BOBRICK SURFACE MOUNTED U.N.O.

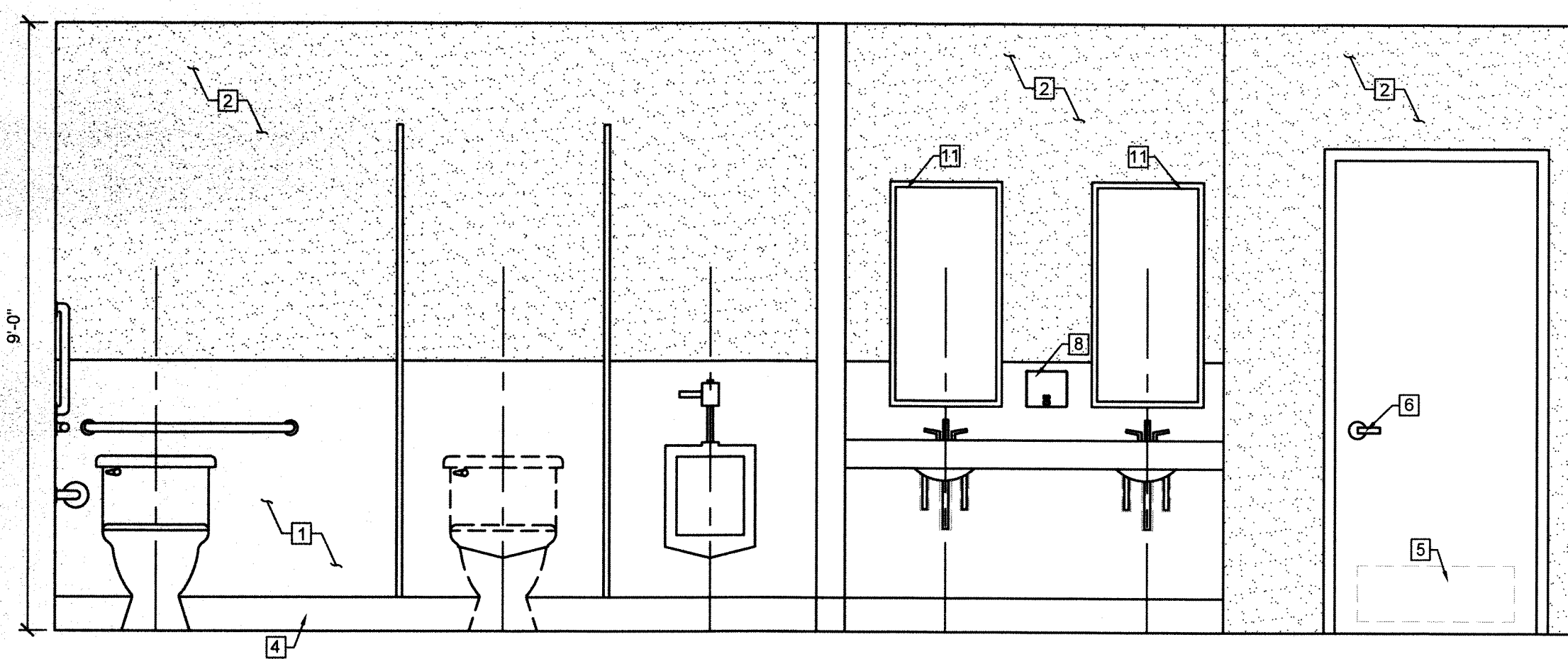
- ### REST ROOM ACCESSORIES
- Ⓐ BOBRICK B-5806x36 SURFACE MOUNTED GRAB BAR (36" L x 1 1/4" DIAMETER) OR EQUAL.
 - Ⓑ BOBRICK B-5806x42 SURFACE MOUNTED GRAB BAR (42" L x 1 1/4" DIAMETER) OR EQUAL.
 - Ⓒ BOBRICK B-5806x18 SURFACE MOUNTED GRAB BAR (18" L x 1 1/4" DIAMETER) OR EQUAL.
 - Ⓓ BOBRICK B-4112 CONTURA SERIES SURFACE MOUNTED SOAP DISPENSER W/ KEY OR EQUAL.
 - Ⓔ BOBRICK B-4268 CONTURA SERIES SURFACE MOUNTED MULTIROLL TOILET PAPER HOLDER OR EQUAL.
 - Ⓕ BOBRICK B-4262 CONTURA SERIES SURFACE MOUNTED PAPER TOWEL DISPENSER.
 - Ⓖ BOBRICK B-290 18x36 SERIES FRAMED MIRROR OR EQUAL.
 - Ⓛ BOBRICK B-4221 CONTURA SERIES SURFACE MOUNTED SEAT-COVER DISPENSER OR EQUAL.
 - Ⓚ BOBRICK KB200-00 HORIZONTAL WALL MOUNTED KOALA BABY CHANGING STATION OR EQUAL.
 - Ⓝ HANDICAP FLOOR MOUNTED WATER CLOSET W/ FLUSH TANK OR EQUAL.
 - Ⓞ ACCESSIBLE WALL MOUNTED LAVATOR SINK
 - Ⓜ PROVIDE INSULATION OVER ALL EXPOSED WATER SUPPLIES & DRAIN PIPES
 - Ⓟ WALL MOUNTED URINAL
 - Ⓠ TOILET PARTITION & UNRINAL SCREEN

- ### GENERAL NOTES (RESTROOMS)
1. WALL TYPES & CONSTRUCTION: SEE WALL LEGEND ON THIS SHEET.
 2. DOOR TYPES & CONSTRUCTION: SEE DOOR SCHEDULE SHEET TI 4.0.
 3. ROOM FINISH SCHEDULE: SEE SHEET TI 4.0.
 4. ALL DIMENSIONS ARE REFERENCED TO FACE OF STUD UNLESS NOTES OTHERWISE.
 5. FOR ALL ELECTRICAL LOCATIONS & SPECIFICATIONS REFER TO ELECTRICAL DRAWINGS.
 6. ALL INTERIOR WALL FINISHES IN REST ROOM SHALL BE 5/8" MOISTURE RESISTANT GYP. BRD. TAPED & PRIMED TO 48" A.F.F. SEE FINISH SCHEDULE FOR FINISH. TYP "X" GYP. BRD. FROM 48" A.F.F. TO CEILING, W/ ORANGE PEEL TEXTURE. SEE FINISH SCHEDULE.
 7. ACCESSIBLE ENTRANCES TO TOILET FACILITIES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (PER ICC/ANSI A117.1 - 2003, CHAPTER 7)

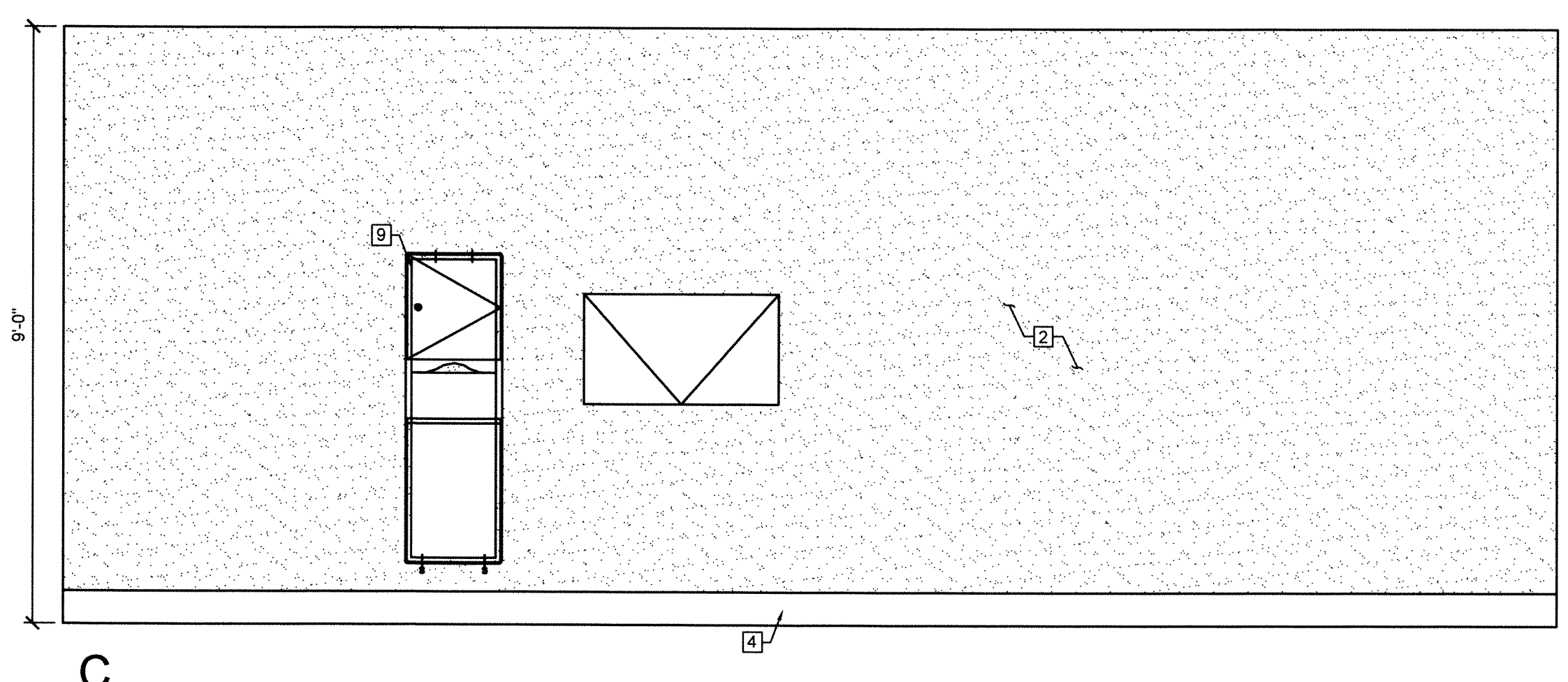
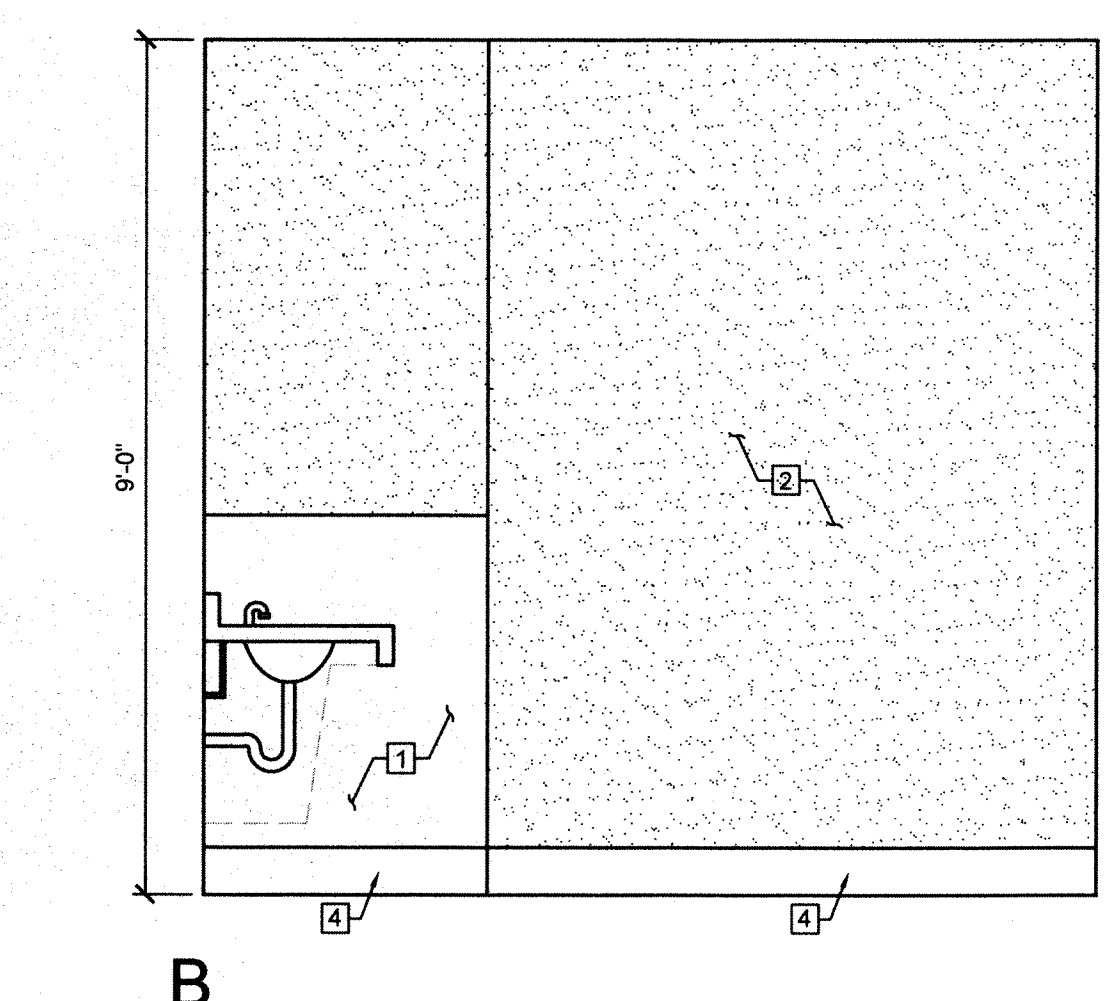


2 TYPICAL RESTROOM DIMENSIONS

SCALE: 1/2"=1'-0"

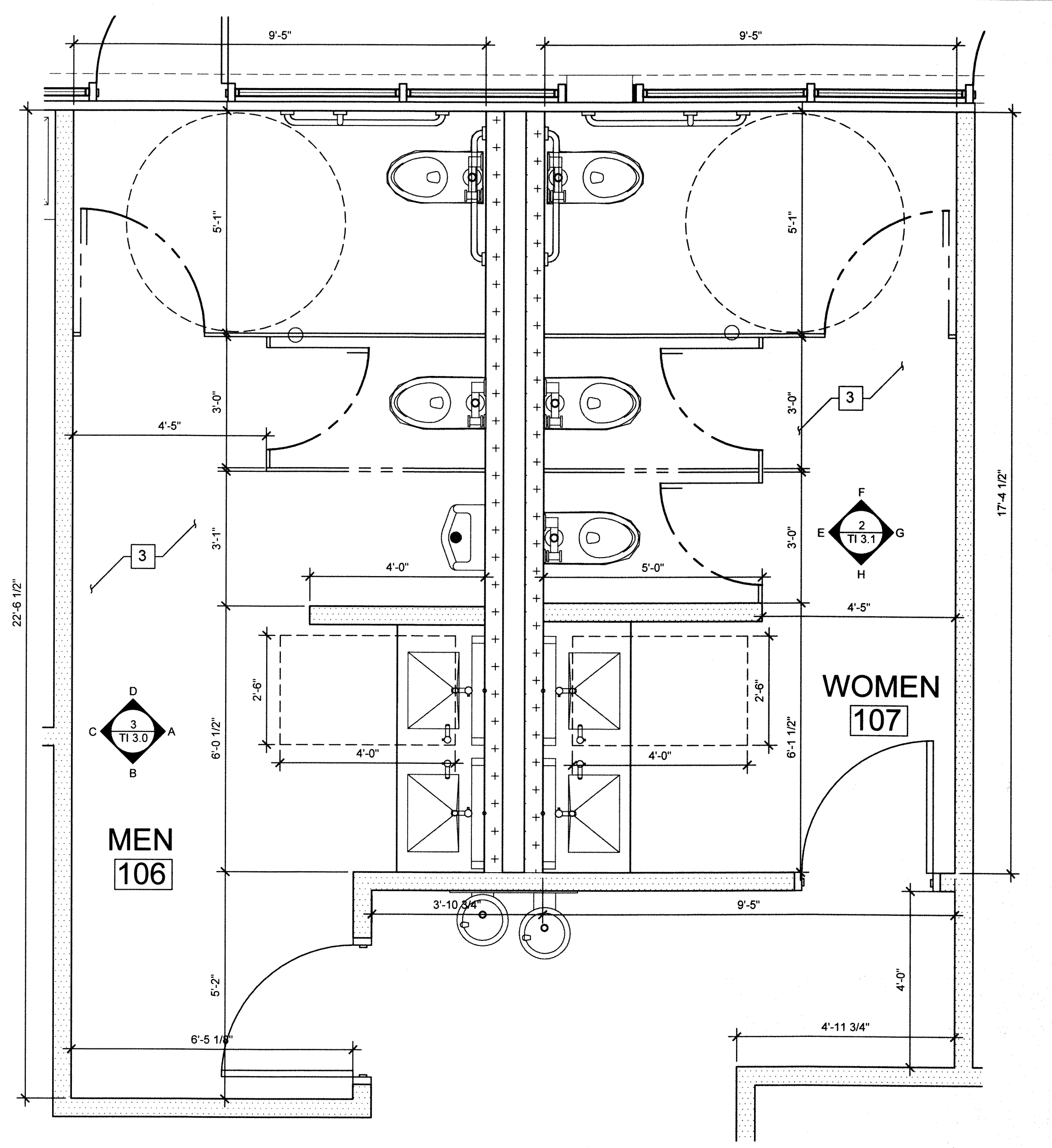


- ### KEY NOTES (RESTROOM)
- 1 F.R.P. BOARDS @ 48" A.F.F.
 - 2 5/8" TYPE "X" GYP. BRD. TAPED & PAINTED.
 - 3 TILE FLOOR COVERING (COLOR & STYLE TO BE SELECTED BY TENANT).
 - 4 6" VINYL WALL BASE
 - 5 SMOOTH FINISH KICK PLATE ON PUSH SIDE ONLY.
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 - 7 ADA HANDRAILS AS REQUIRED.
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 - 9 PAPER TOWEL/WASTE RECEPTACLES.
 - 10 TOILET PAPER HOLDER - SURFACE MOUNTED
 - 11 SURFACE MOUNTED MIRROR
 - 12 WALL MOUNT LAVATORY
 - 13 FLOOR MOUNTED TOILET



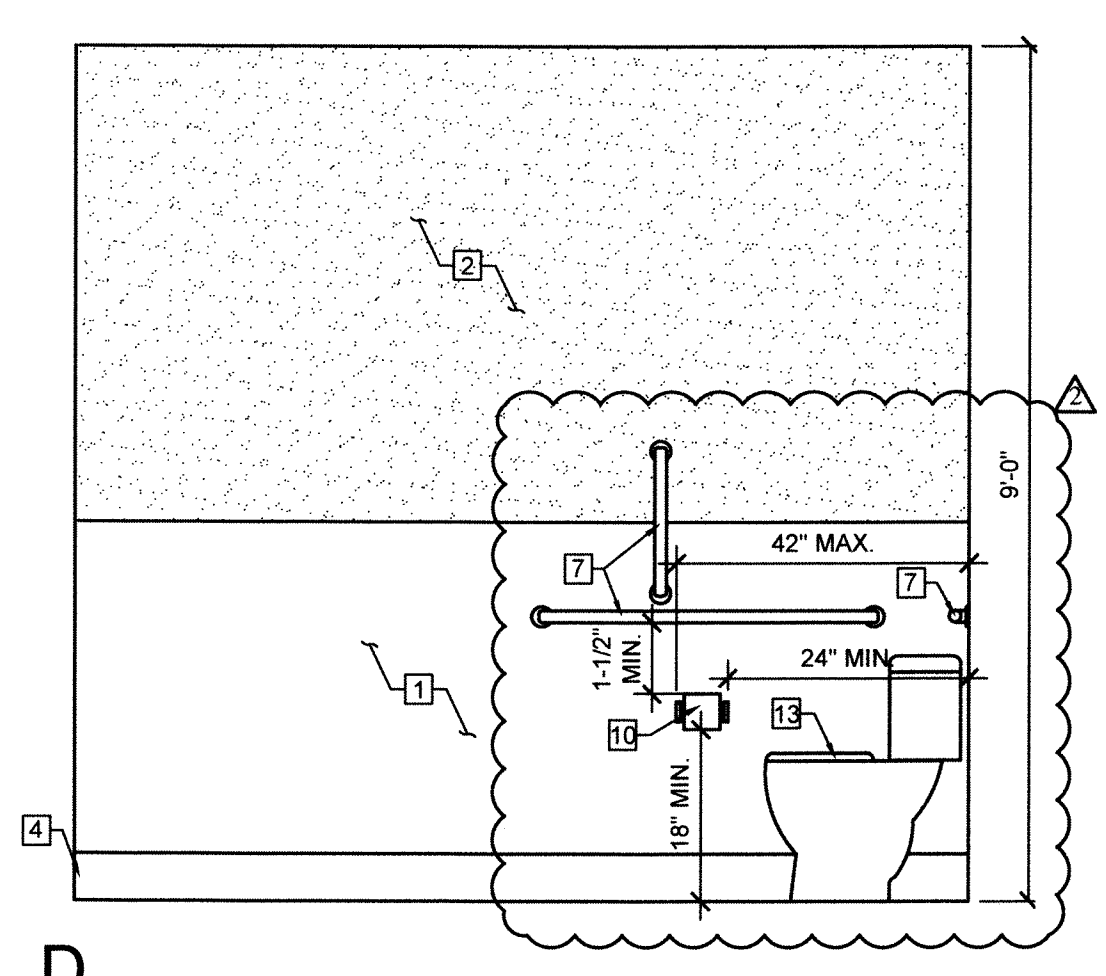
3 REST ROOM ELEVATIONS: MENS REST ROOM

SCALE: 1/2"=1'-0"



1 ENLARGED RESTROOM PLAN

SCALE: 1/2"=1'-0"



CITY OF NORTH LAS VEGAS
BUILDINGS SAFETY
SEP 29 2015
Reviewed and Accepted
Edgar Surita

ENLARGED REST ROOM PLAN

NEVADA WELFARE
6390 N. DECATUR BLVD.
N. LAS VEGAS, NV 89130

LM CONSTRUCTION CO.
5075 CAMERON SUITE #H
LAS VEGAS, NEVADA 89118
(702) 262-6032, FAX (702) 262-6150
NEVADA LIC. # 0042596A

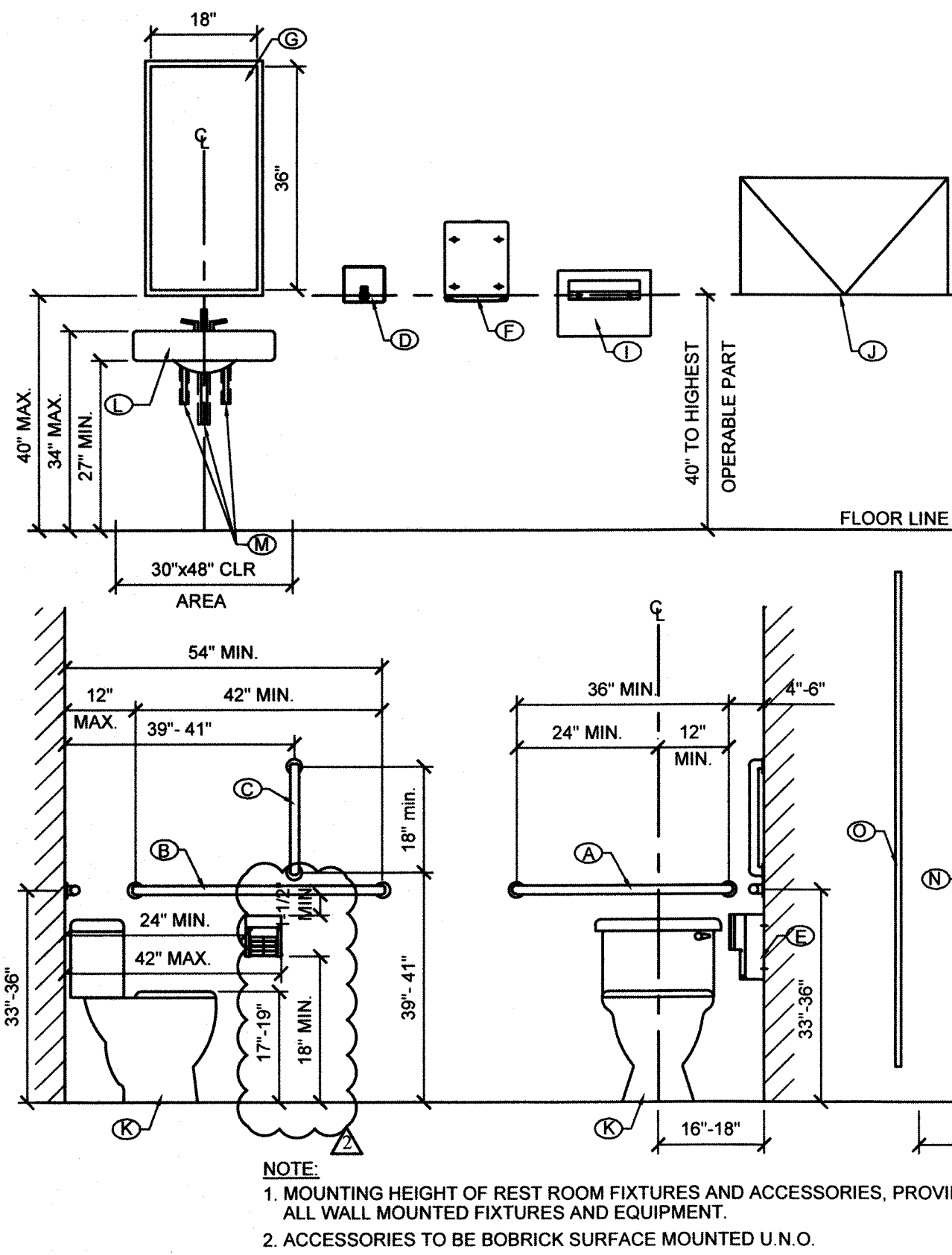
CONTRACTOR:
These plans were prepared by the contractor as an example of the work to be done. The contractor is responsible for the accuracy of the information and for obtaining all necessary permits. The contractor shall be responsible for the construction of the project in accordance with the plans and specifications. The contractor shall be responsible for the completion of the project within the specified time frame. The contractor shall be responsible for the payment of all bills and for the maintenance of the project. The contractor shall be responsible for the safety of the project and for the protection of the environment. The contractor shall be responsible for the quality of the work and for the satisfaction of the client. The contractor shall be responsible for the completion of the project within the specified time frame. The contractor shall be responsible for the payment of all bills and for the maintenance of the project. The contractor shall be responsible for the safety of the project and for the protection of the environment. The contractor shall be responsible for the quality of the work and for the satisfaction of the client.

9-14-15 CNLV COMMENTS
9-22-15 CNLV COMMENTS
DRAWN BY: MS
CHECKED BY: MB
JOB NUMBER: 2029
DATE: 07-16-15

TI 3.0

CORRECTIONS RECEIVED
SEP 13 15

CONNECTIONS JOB SITE COPY



REST ROOM ACCESSORIES

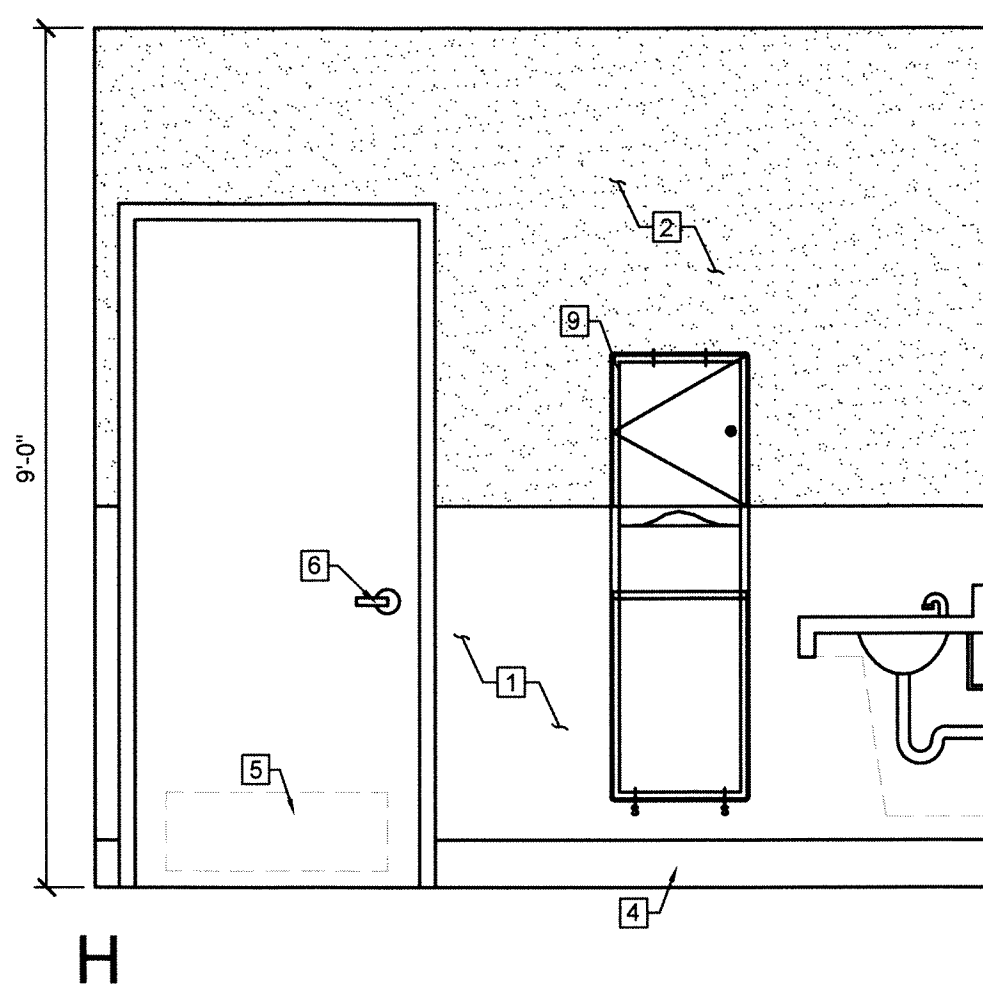
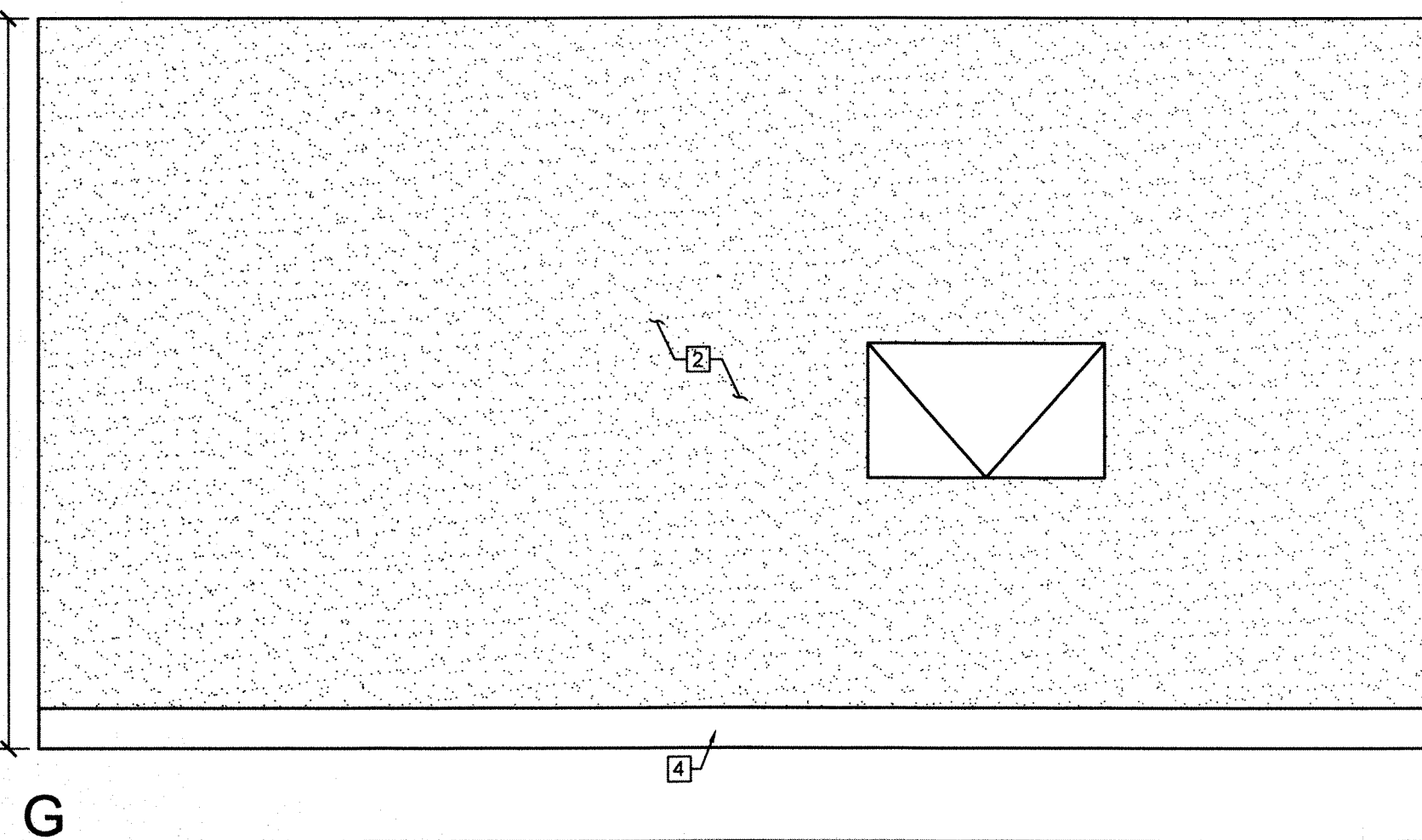
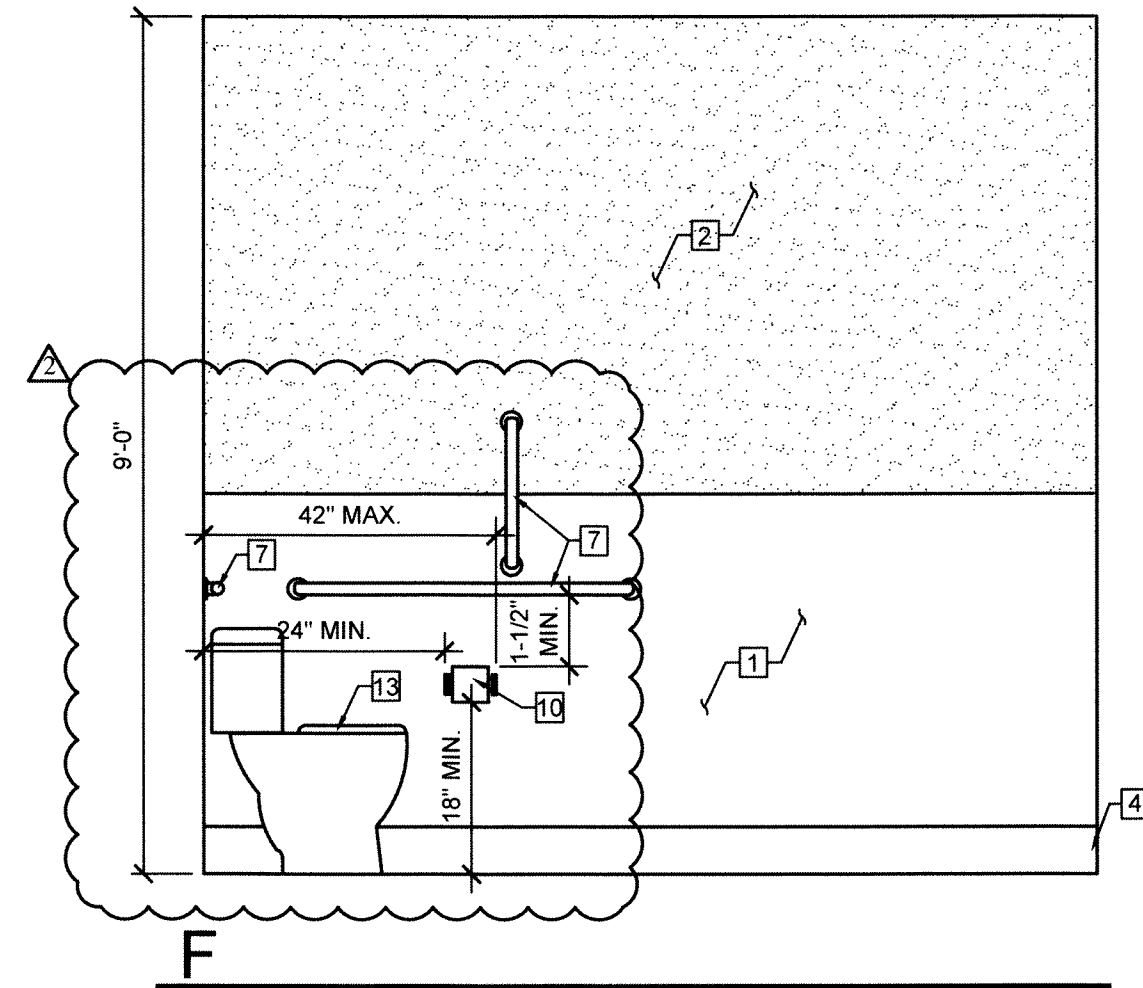
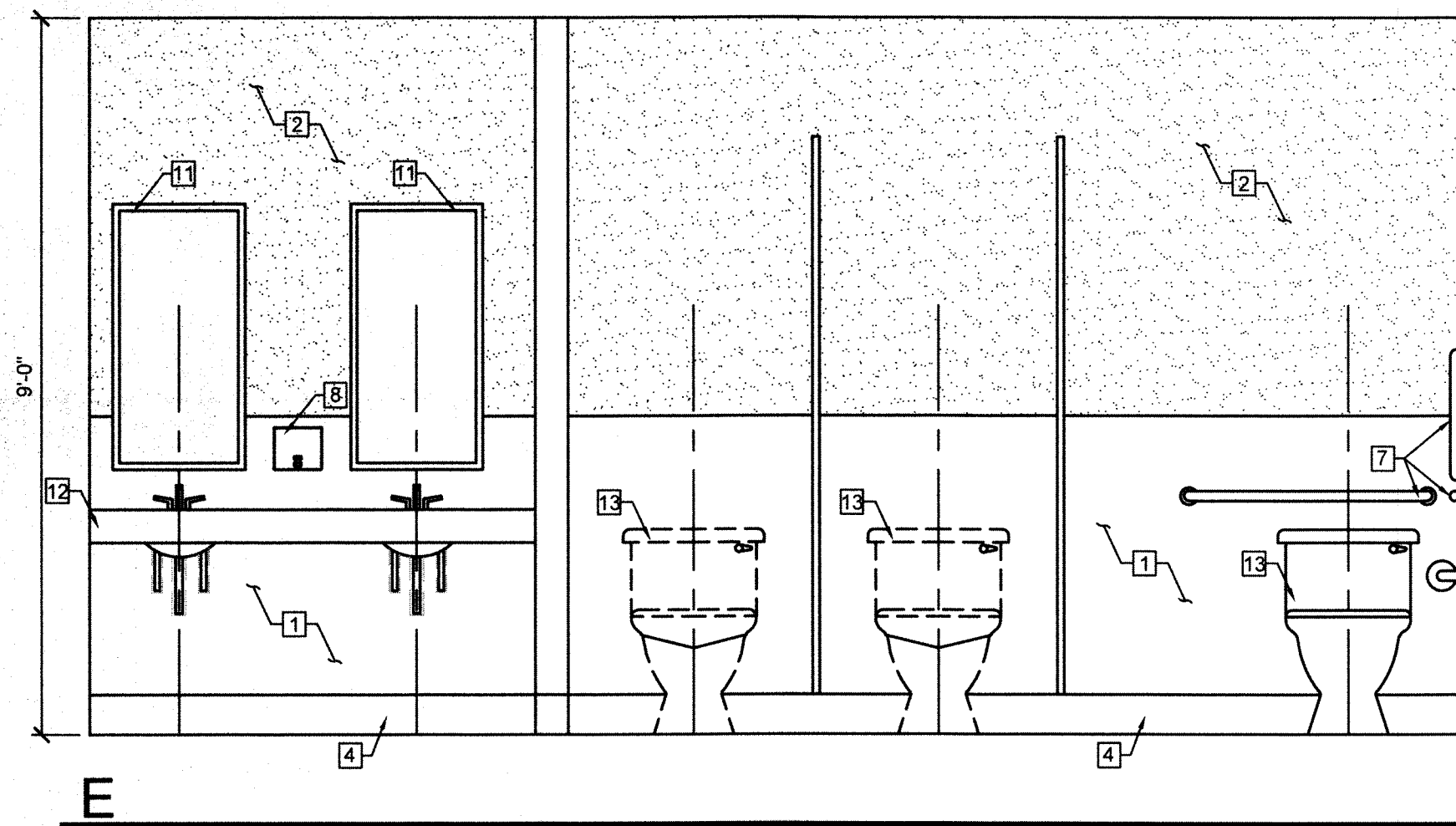
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- ⑥ BOBRICK B-4262 CONTURA SERIES SURFACE MOUNTED PAPER TOWEL DISPENSER
- ⑦ BOBRICK B-290 18x36 SERIES FRAMED MIRROR OR EQUAL
- ⑧ BOBRICK B-4221 CONTURA SERIES SURFACE MOUNTED SEAT-COVER DISPENSER OR EQUAL
- ⑨ BOBRICK KB200-00 HORIZONTAL WALL MOUNTED KOALA BABY CHANGING STATION OR EQUAL
- ⑩ HANDICAP FLOOR MOUNTED WATER CLOSET W/ FLUSH TANK OR EQUAL
- ⑪ ACCESSIBLE WALL MOUNTED LAVATOR SINK
- ⑫ PROVIDE INSULATION OVER ALL EXPOSED WATER SUPPLIES & DRAIN PIPES
- ⑬ WALL MOUNTED URINAL
- ⑭ TOILET PARTITION & UNRINAL SCREEN

KEY NOTES (RESTROOM)

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- 11 SURFACE MOUNTED MIRROR
- 12 WALL MOUNT LAVATORY
- 13 FLOOR MOUNTED TOILET

1 TYPICAL REST ROOM DIMENSIONS

SCALE: 1/2"=1'-0"



2 REST ROOM ELEVATION: WOMENS REST ROOM

SCALE: 1/2"=1'-0"

CONSTRUCTION CO.
5075 CAMERON SUITE #H
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(702) 262-6032, FAX (702) 262-6150
NEVADA LIC. # 0042596A

ENLARGED REST ROOM PLAN

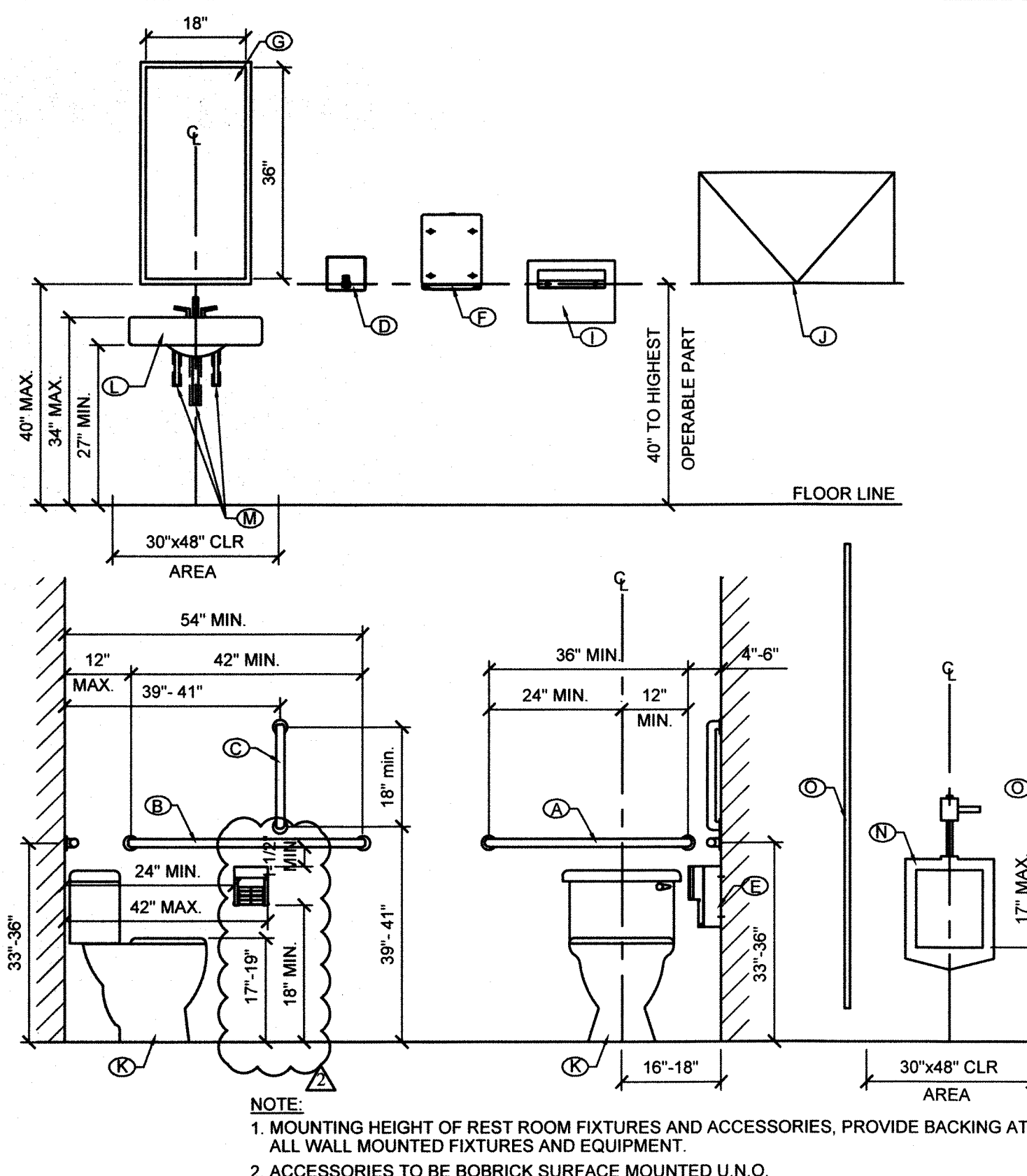
NEVADA WELFARE
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CITY OF NORTH LAS VEGAS
BUILDING SAFETY
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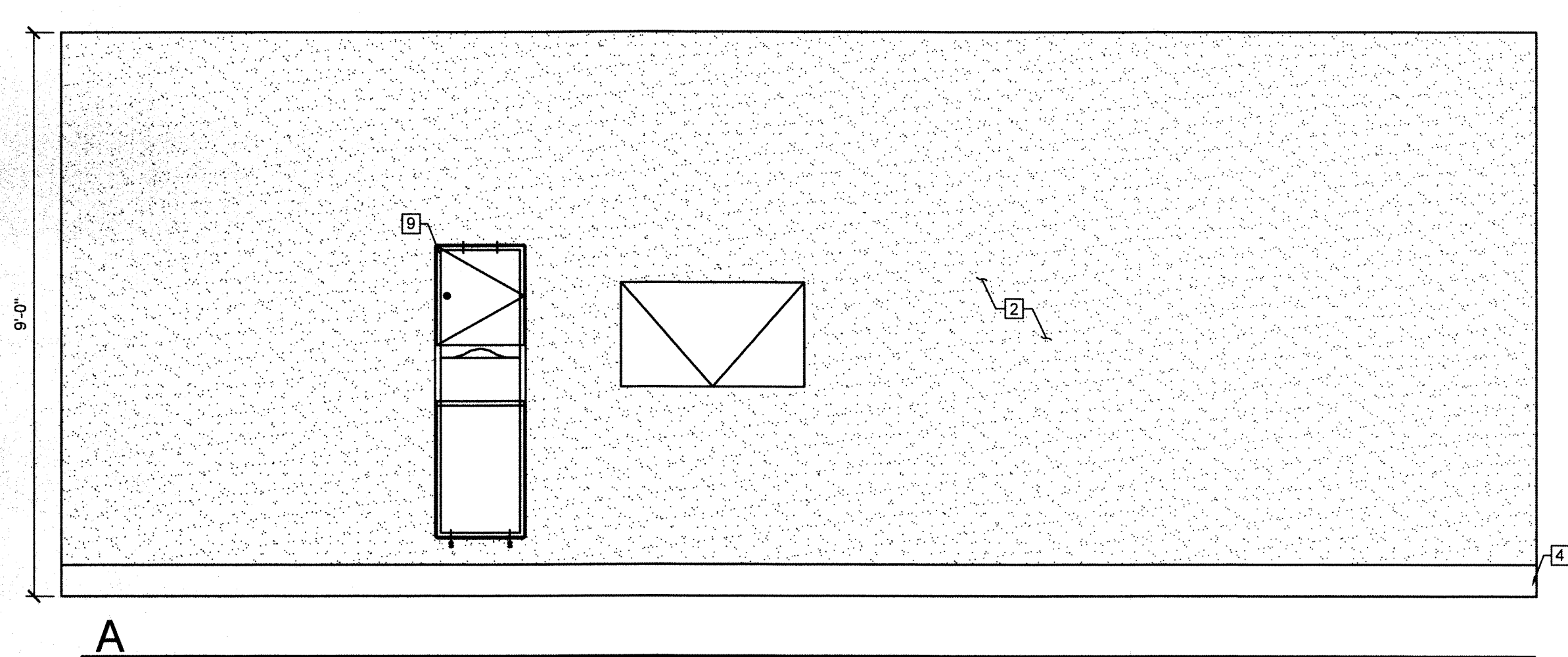
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TI 3.1

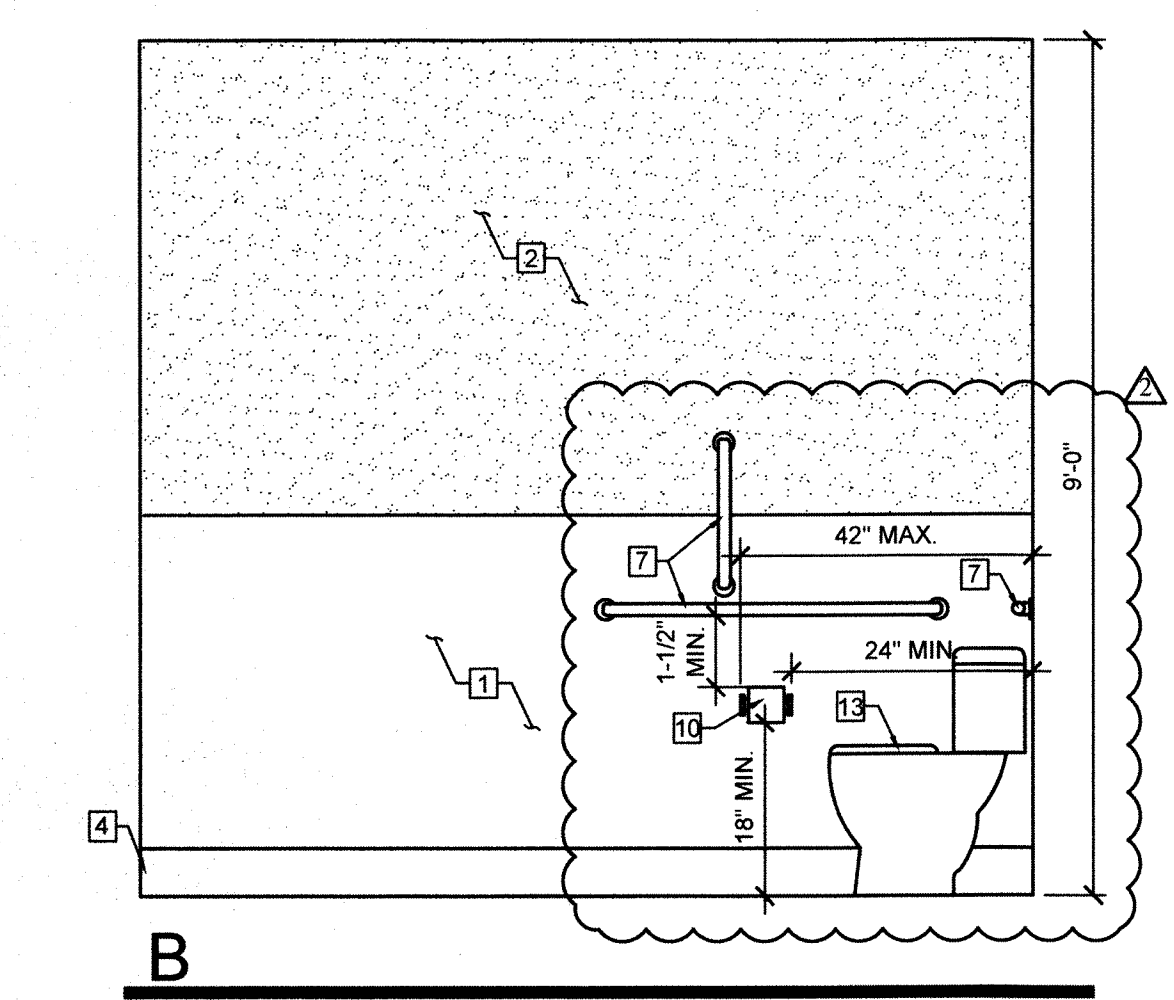
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2 TYPICAL REST ROOM DIMENSIONS
 SCALE: 1/2"=1'-0"



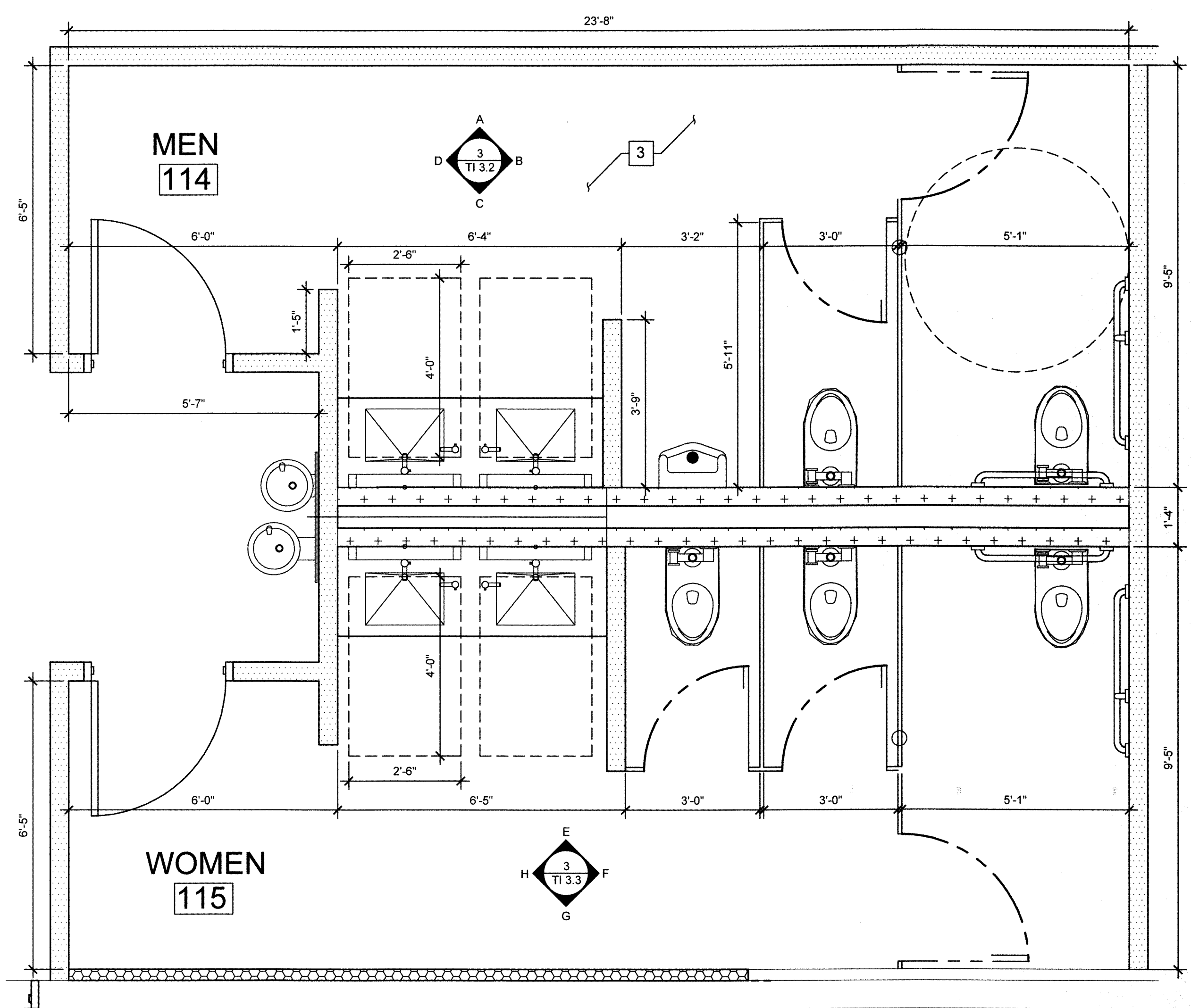
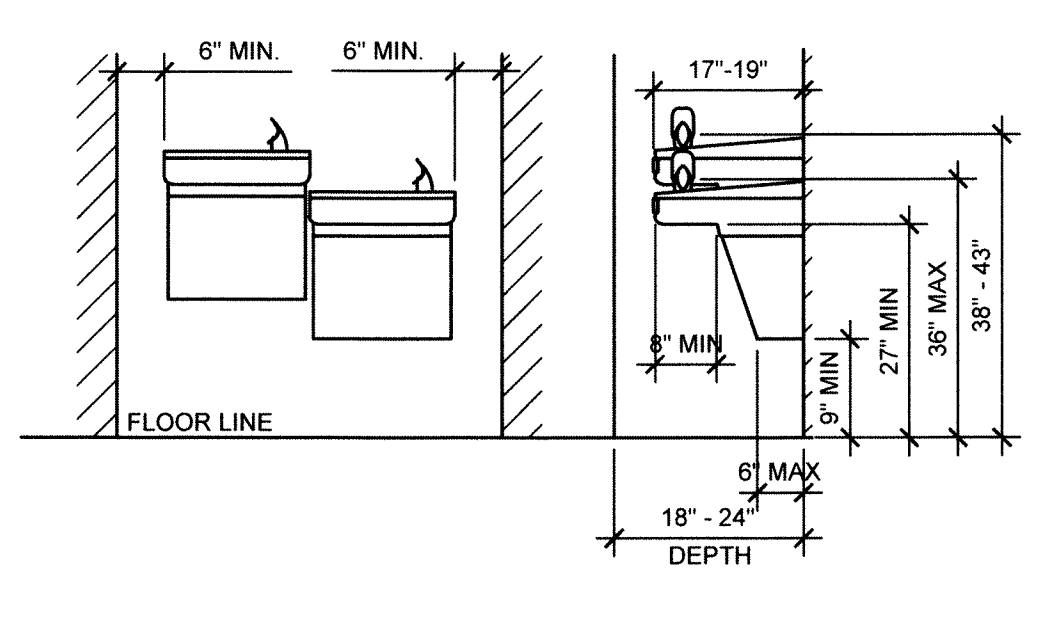
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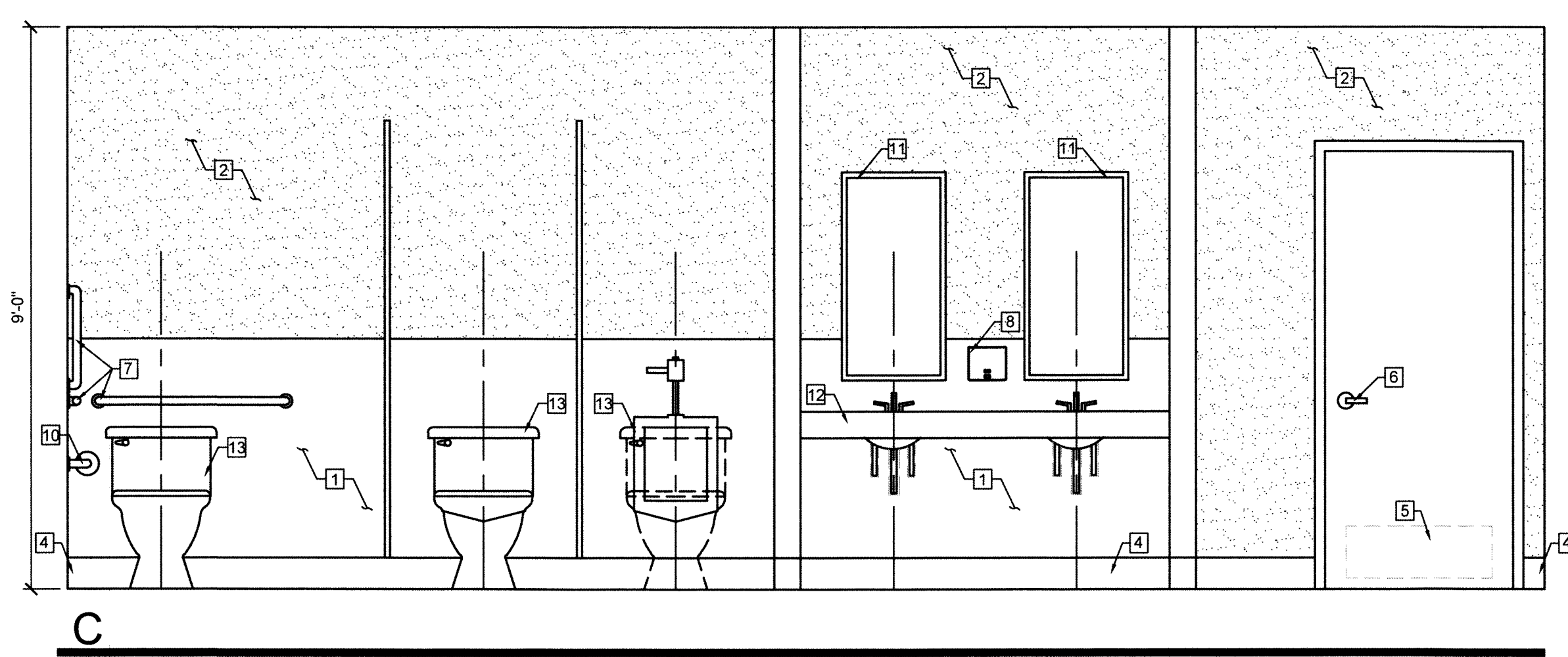
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 - Ⓕ BOBRICK B-4262 CONTURA SERIES SURFACE MOUNTED PAPER TOWEL DISPENSER.
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 - Ⓛ BOBRICK KB200-00 HORIZONTAL WALL MOUNTED KOALA BABY CHANGING STATION OR EQUAL.
 - Ⓜ HANDICAP FLOOR MOUNTED WATER CLOSET W/ FLUSH TANK OR EQUAL.
 - Ⓝ ACCESSIBLE WALL MOUNTED LAVATOR SINK.
 - Ⓟ WALL MOUNTED URINAL.
 - Ⓡ TOILET PARTITION & URINAL SCREEN.

- GENERAL NOTES (RESTROOMS)**
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 6. ALL INTERIOR WALL FINISHES IN REST ROOM SHALL BE 5/8" MOISTURE RESISTANT GYP. BRD., TAPED & PRIMED TO 48" A.F.F. SEE FINISH SCHEDULE FOR FINISH TYPE "X" GYP. BRD. FROM 48" A.F.F. TO CEILING. W/ ORANGE PEEL TEXTURE. SEE FINISH SCHEDULE.
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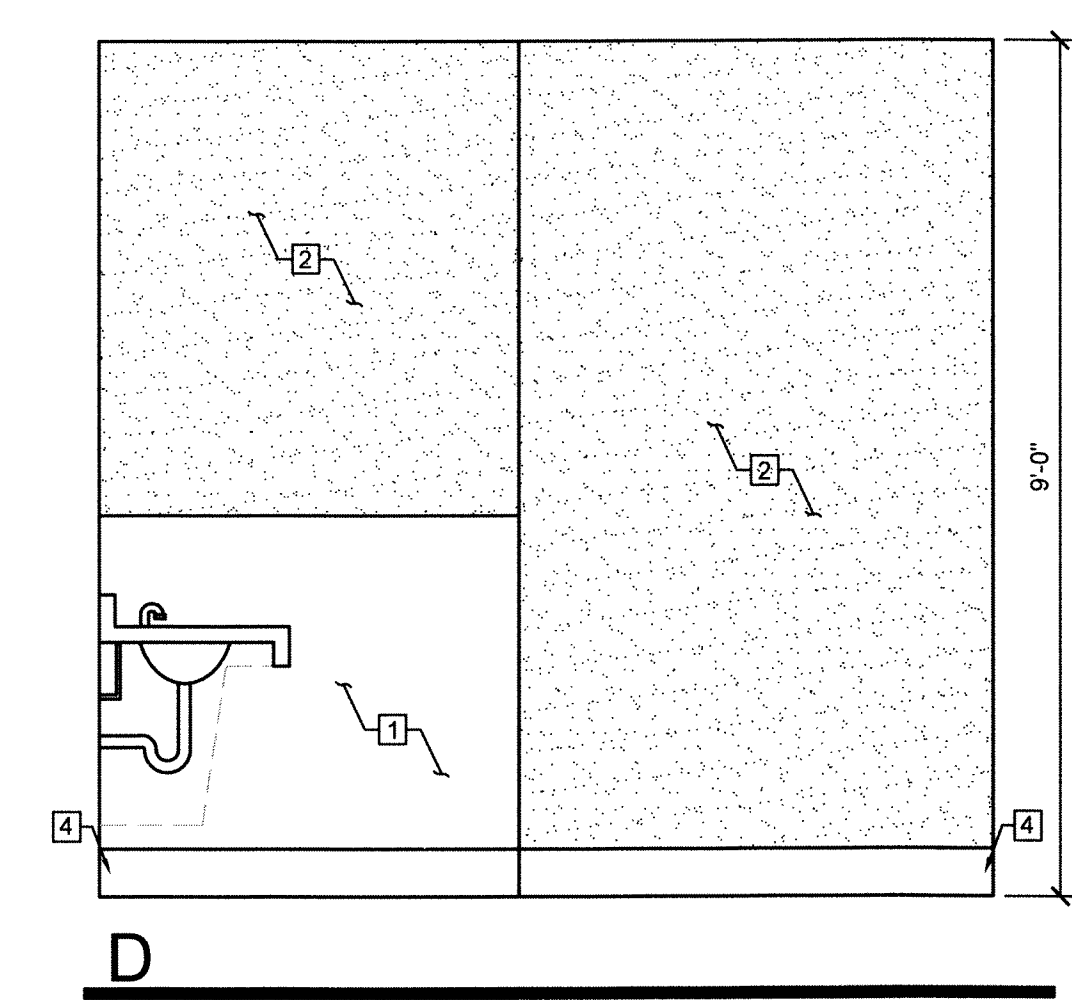


1 ENLARGED FLOOR PLAN
 SCALE: 1/2"=1'-0"

- KEY NOTES (RESTROOM)**
- 1 F.R.P. BOARDS @ 48" A.F.F.
 - 2 5/8" TYPE "X" GYP. BRD. TAPED & PAINTED.
 - 3 TILE FLOOR COVERING (COLOR & STYLE TO BE SELECTED BY TENANT).
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 - 10 TOILET PAPER HOLDER - SURFACE MOUNTED.
 - 11 SURFACE MOUNTED MIRROR.
 - 12 WALL MOUNT LAVATORY.
 - 13 FLOOR MOUNTED TOILET.



C



D

3 REST ROOM ELEVATION: MENS REST ROOM
 SCALE: 1/2"=1'-0"

CITY OF NORTH LAS VEGAS
 BUILDINGS SAFETY
 SEP 29 2015
 Reviewed and Accepted
 Edgar Suria

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CONTRACTOR:
 LAM CONSTRUCTION CO.
 (Company Name)
 # 0042596A
 (Contractors License #)
 MIKE BROWN
 (Prints Prepared By)
 (Signature)

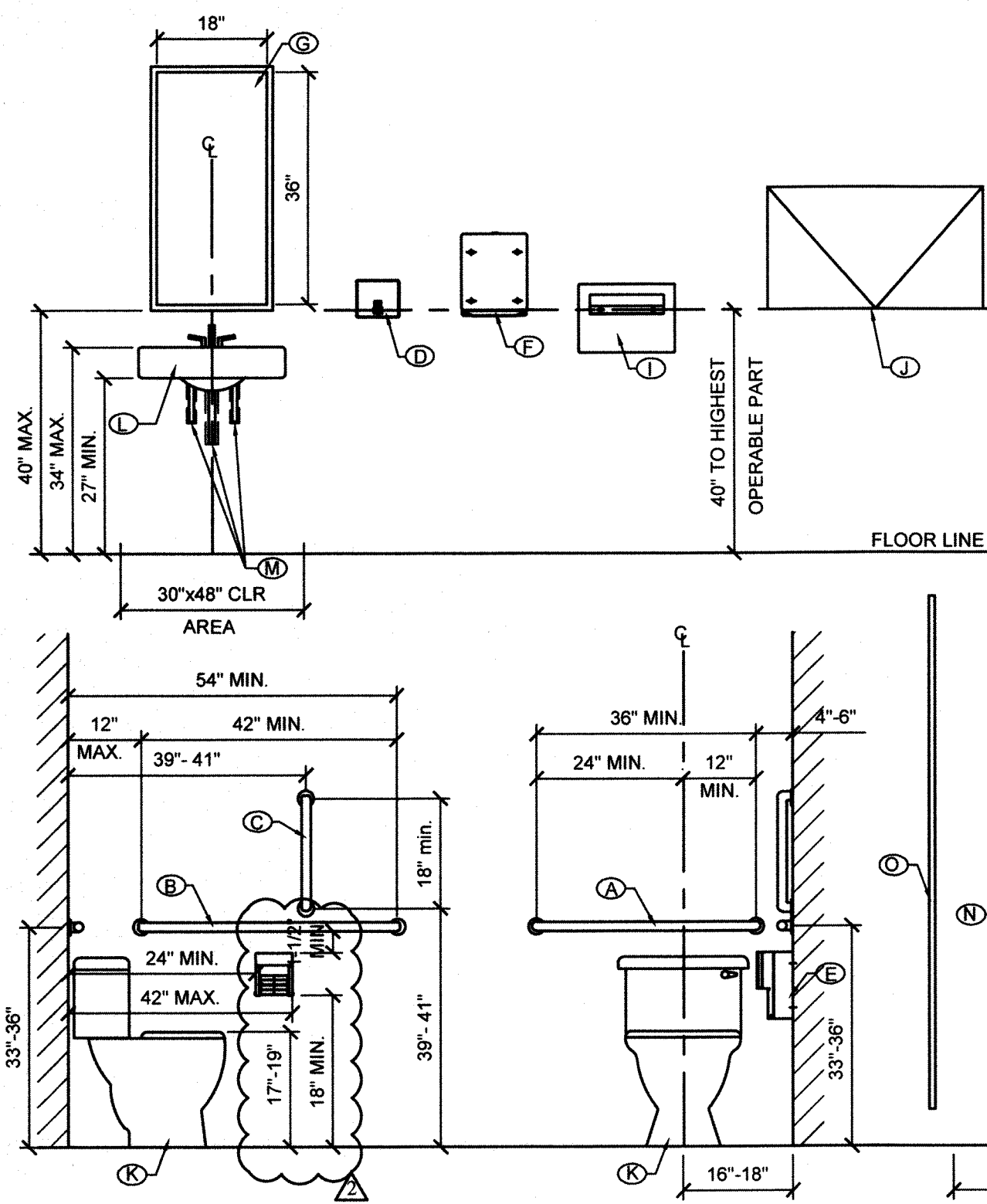
CONSTRUCTION CO.
 5075 CAMERON SUITE #H
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 (702) 262-6032, FAX (702) 262-6150
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ENLARGED REST ROOM PLAN
 NEVADA WELFARE
 6390 N. DECATUR BLVD.
 N. LAS VEGAS, NV 89130

9-14-15 CNLV COMMENTS
 9-22-15 CNLV COMMENTS
 DRAWN BY: MS
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TI 3.2

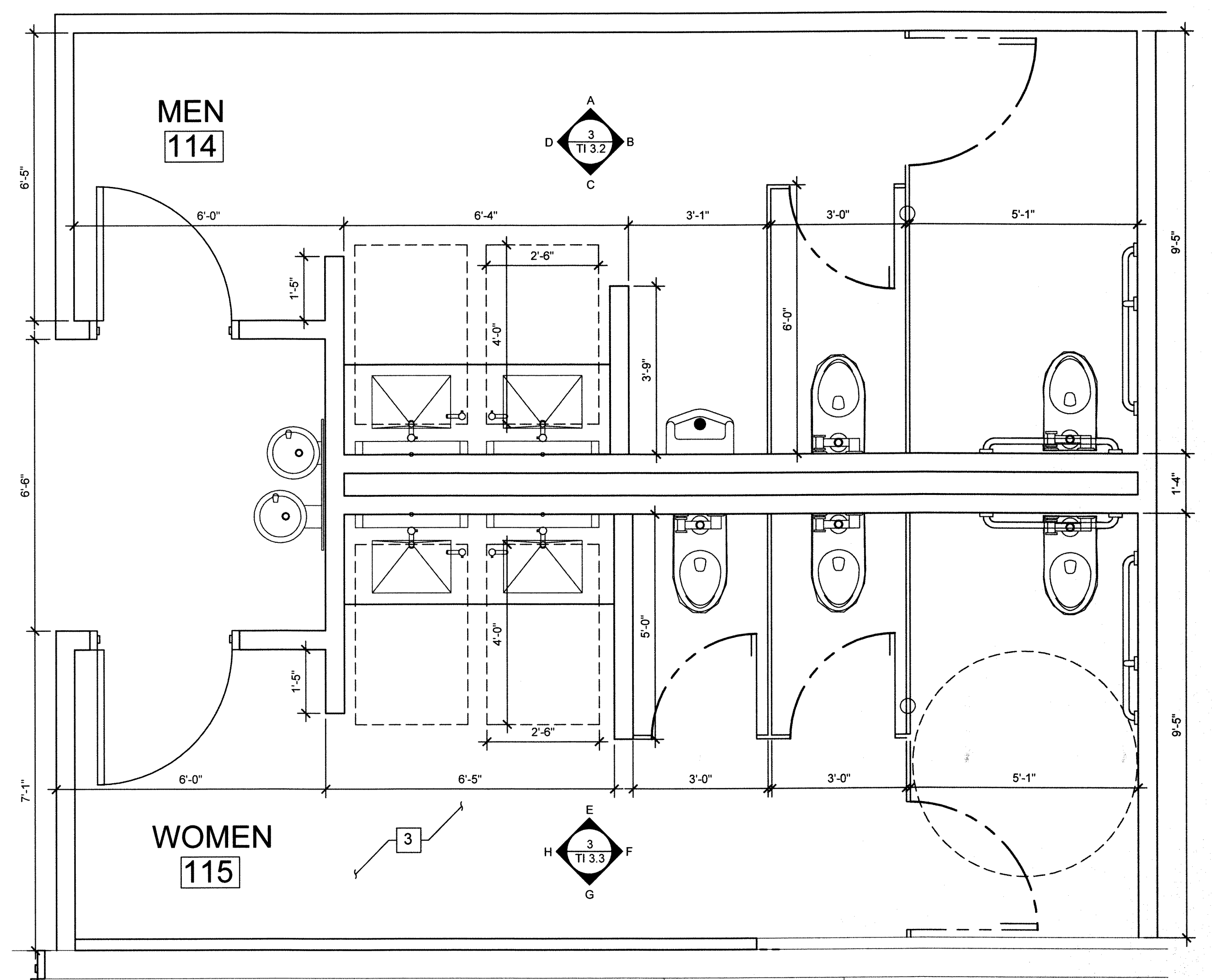
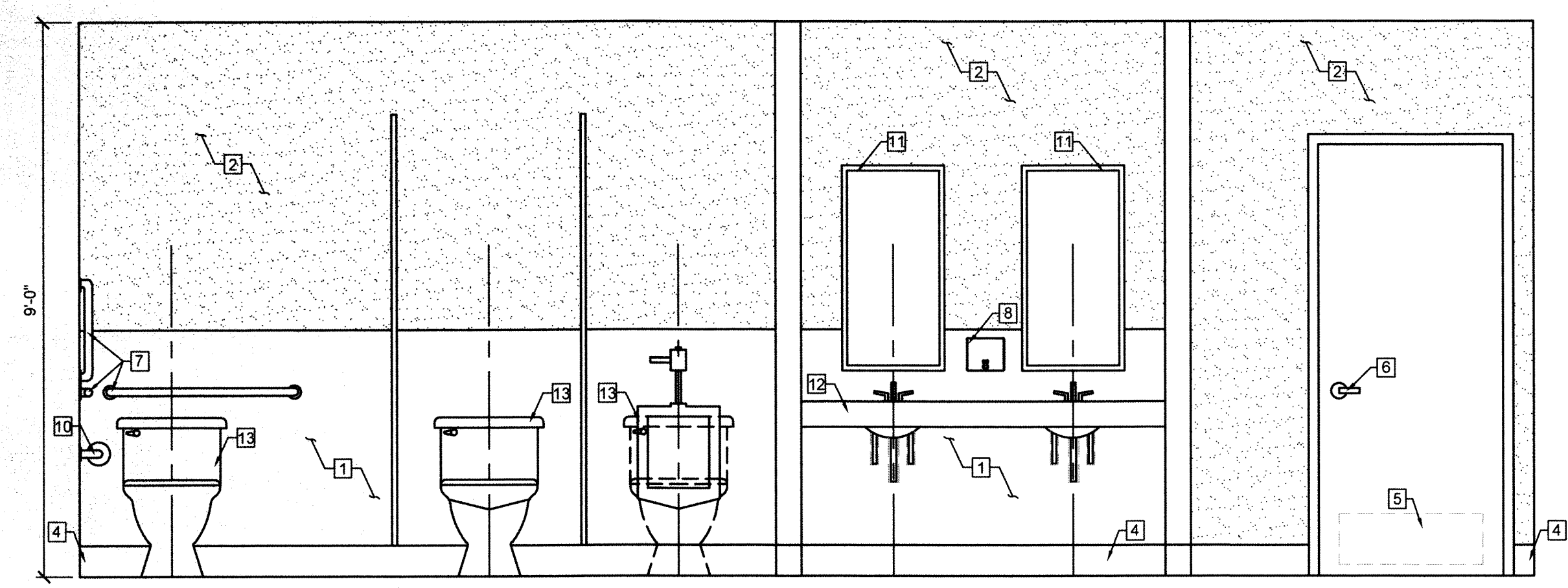
JOB SITE COPY



- ### REST ROOM ACCESSORIES
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 - Ⓞ TOILET PARTITION & UNRINAL SCREEN.

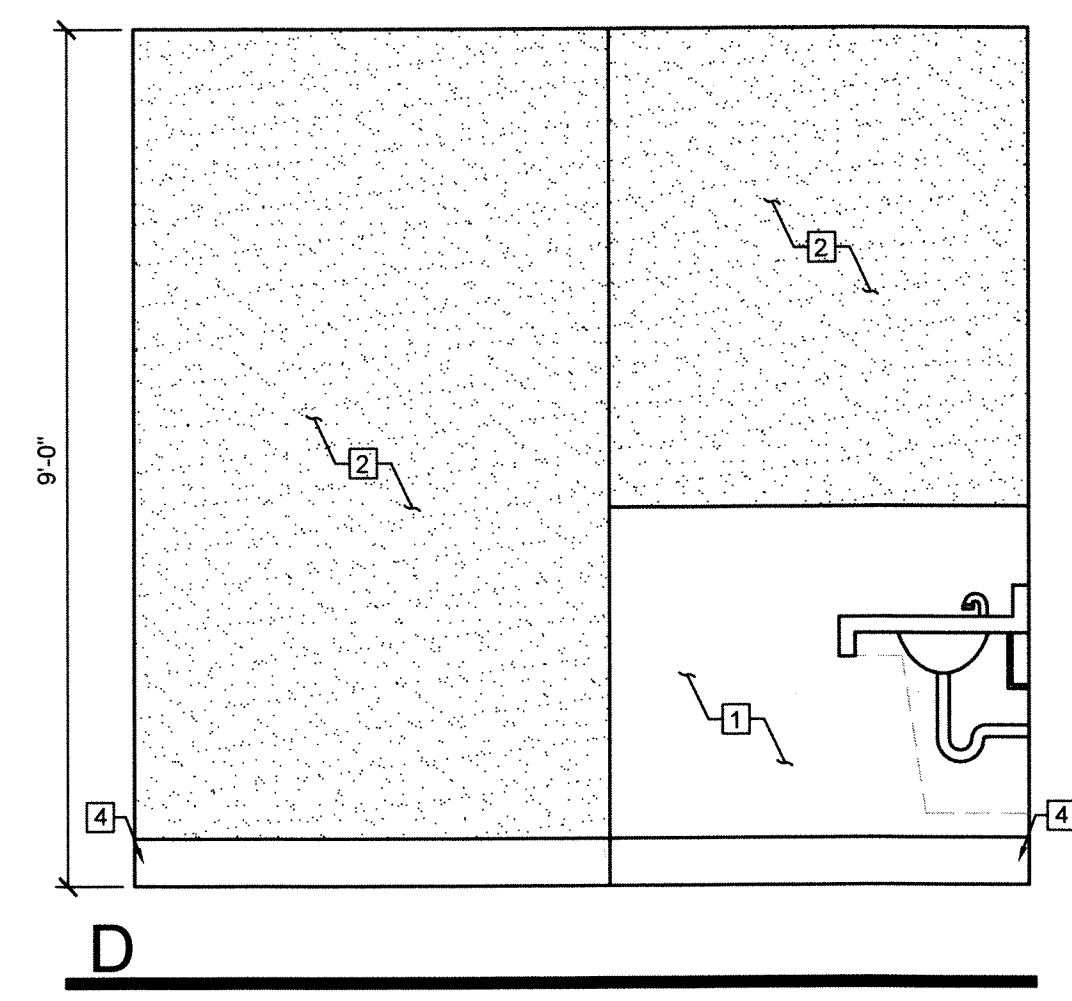
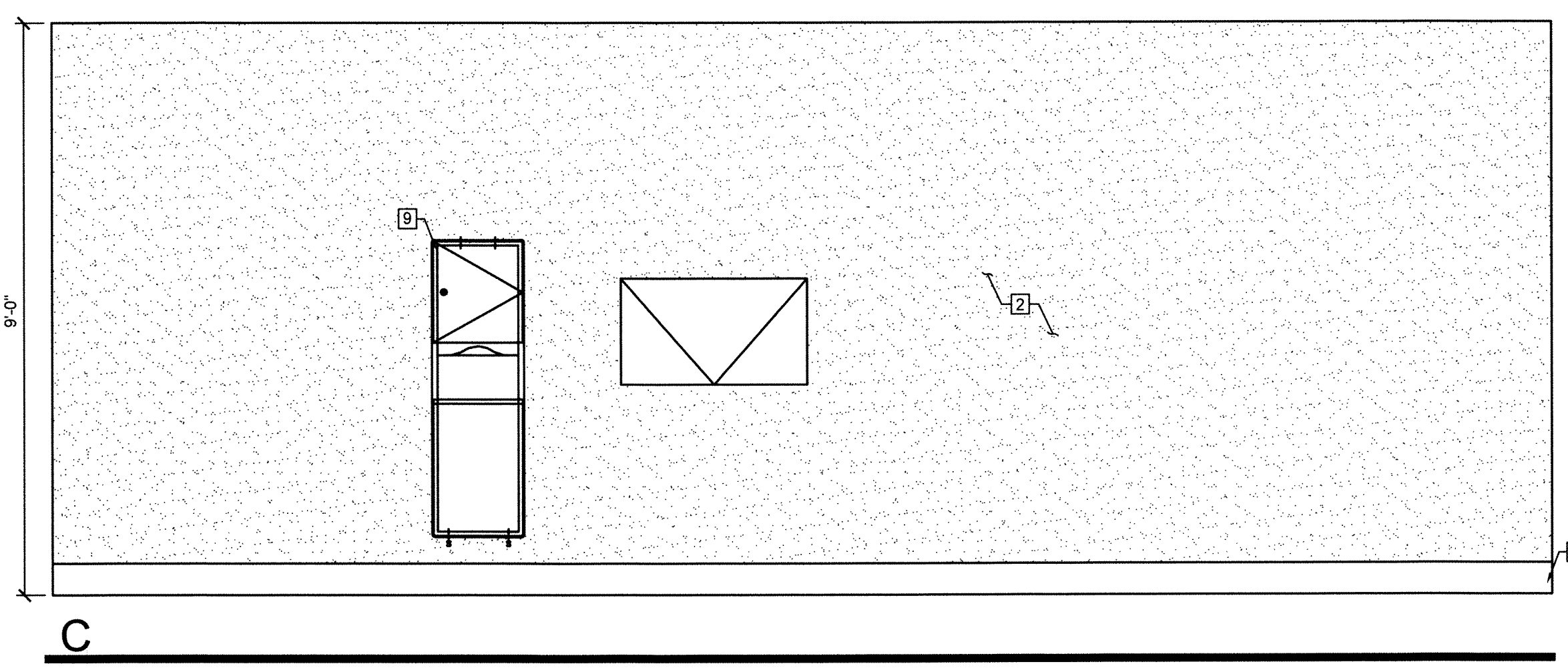
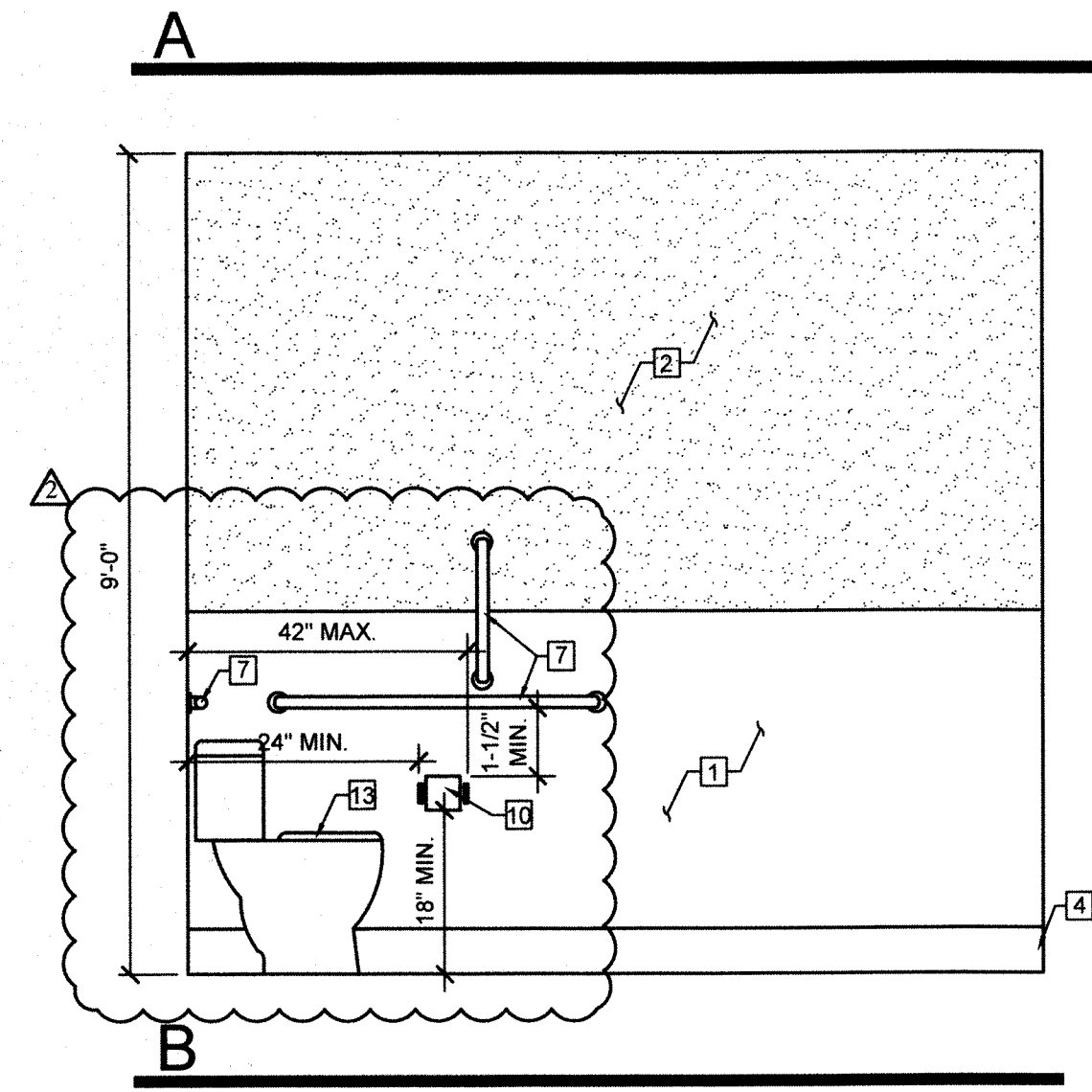
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2 TYPICAL REST ROOM DIMENSIONS
SCALE: 1/2"=1'-0"



1 ENLARGED FLOOR PLAN
SCALE: 1/2"=1'-0"

- ### KEY NOTES (RESTROOM)
- | | |
|---|--|
| 1 F.R.P. BOARDS @ 48" A.F.F. | 8 SURFACE MOUNTED SOAP DISPENSER W/KEY |
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| 4 6" VINYL WALL BASE | 11 SURFACE MOUNTED MIRROR |
| 5 SMOOTH FINISH KICK PLATE ON PUSH SIDE ONLY. | 12 WALL MOUNT LAVATORY |
| 6 LEVER TYPE HANDLE W/ QUICK RELEASE LOCK FROM INTERIOR SIDE | 13 FLOOR MOUNTED TOILET |
| 7 ADA HANDRAILS AS REQUIRED. | |



3 REST ROOM ELEVATION: WOMENS REST ROOM
SCALE: 1/2"=1'-0"

Notes of the drawings provided on this document may be used, reproduced or modified in whole or in part, by any person for any purpose, without the written consent of the contractor. The contractor shall be responsible for the accuracy of the information provided to the project. The contractor shall be responsible for the accuracy of the information provided to the project. The contractor shall be responsible for the accuracy of the information provided to the project.

CONTRACTOR:
These plans are prepared and submitted by the contractor. The contractor shall be responsible for the accuracy of the information provided to the project. The contractor shall be responsible for the accuracy of the information provided to the project. The contractor shall be responsible for the accuracy of the information provided to the project.

LM CONSTRUCTION CO.
(Company Name)
0042596A
(Contractors License #)
MIKE BROWN
(Plaintiff Prepared By)
(Signature)

LM CONSTRUCTION CO.
5075 CAMERON SUITE #H
LAS VEGAS, NEVADA 89118
(702) 262-6032, FAX (702) 262-6150
NEVADA LIC. # 0042596A

ENLARGED REST ROOM PLAN

NEVADA WELFARE
6390 N. DECATUR BLVD.
N. LAS VEGAS, NV 89130

9-14-15 ONLY COMMENTS
9-22-15 ONLY COMMENTS

DRAWN BY: MS
CHECKED BY: MB
JOB NUMBER: 2029
DATE: 07-16-15

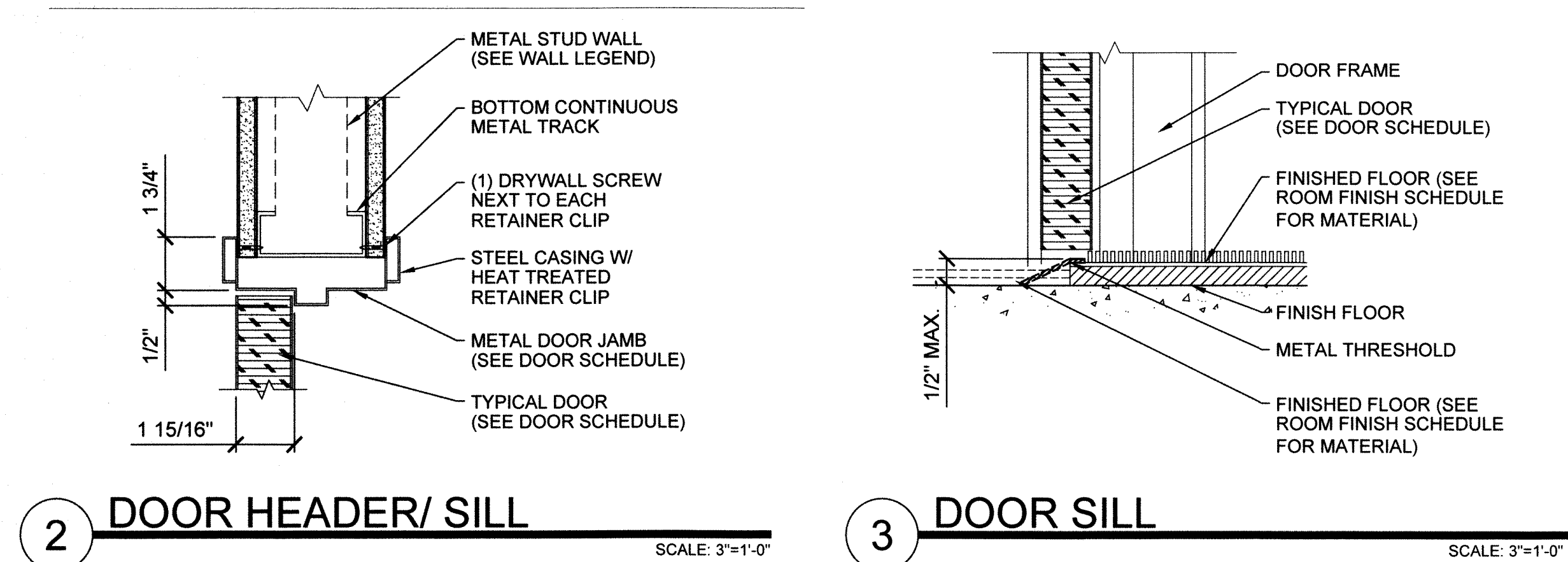
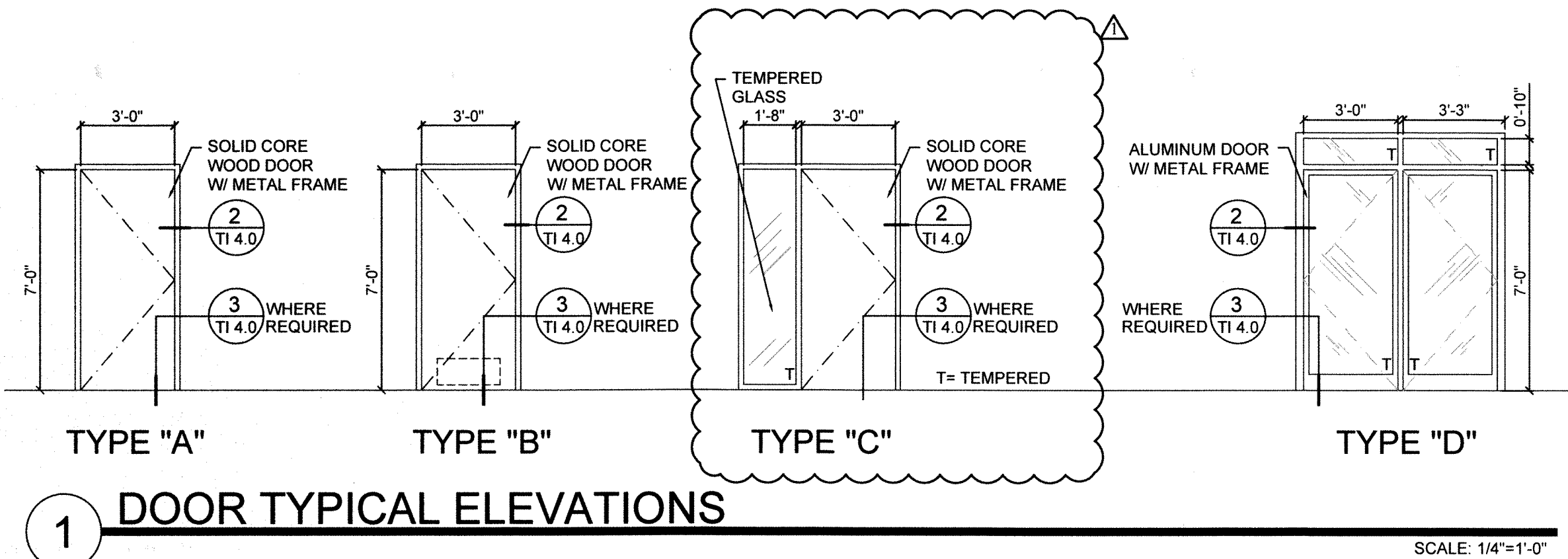
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DOOR SCHEDULE										
DOOR NO.	DOOR SIZE	DOOR TYPE		DOOR FRAME		DETAIL (SEE 283/TI 4.0)		HARDWARE (OR EQUAL)	FIRE RATING	REMARKS (SEE DOOR NOTES)
	W x H x T	TYPE	MATERIAL	PRE-FINISH	MATERIAL	FINISH COLOR	HEAD	JAMB	THRSH	
1	6'-0" x 7'-0" x 1-3/4"	D	ALUMINUM	PAINTED	TIMELY	BLACK	-	-	-	SEE REMARKS
2	3'-0" x 7'-0" x 1-3/4"	A	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
3	3'-0" x 7'-0" x 1-3/4"	C	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
4	3'-0" x 7'-0" x 1-3/4"	C	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
5	3'-0" x 7'-0" x 1-3/4"	B	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
6	3'-0" x 7'-0" x 1-3/4"	B	SOLID CORE	PAINTED	TIMELY	BLACK	-	-	-	SEE REMARKS
7	3'-0" x 7'-0" x 1-3/4"	B	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
8	3'-0" x 7'-0" x 1-3/4"	B	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
9	3'-0" x 7'-0" x 1-3/4"	A	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
10	3'-0" x 7'-0" x 1-3/4"	A	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
11	3'-0" x 7'-0" x 1-3/4"	C	SOLID CORE	PAINTED	TIMELY	BLACK	-	-	-	SEE REMARKS
12	3'-0" x 7'-0" x 1-3/4"	C	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
13	3'-0" x 7'-0" x 1-3/4"	C	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
14	3'-0" x 7'-0" x 1-3/4"	C	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
15	3'-0" x 7'-0" x 1-3/4"	B	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
16	3'-0" x 7'-0" x 1-3/4"	B	SOLID CORE	PAINTED	TIMELY	BLACK	-	-	-	SEE REMARKS
17	3'-0" x 7'-0" x 1-3/4"	B	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
18	3'-0" x 7'-0" x 1-3/4"	C	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS
19	3'-0" x 7'-0" x 1-3/4"	C	SOLID CORE	PAINTED	TIMELY	BLACK	2/TI4.0	2/TI4.0	3/TI4.0	SEE REMARKS

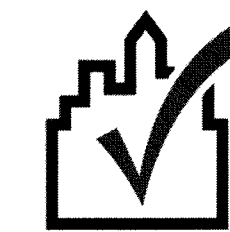
DOOR NOTES
1. ALL DOOR HARDWARE SHALL COMPLY WITH I.B.C. 2012 AND ICC/ANSI A117.1-2003.
2. ALL DOOR HANDLES TO BE HANDICAP APPROVED "SCHLAGE-AL" SERIES "RHODES" LEVER STYLE OR EQUAL (OPEN ABLE WITHOUT SPECIAL KNOWLEDGE OR SKILL). ALL HARDWARE IS TO BE BRUSHED CHROME (U.N.O.).
3. PROVIDE NORTON 8501 SERIES MULTI-SIZED DOOR CLOSER.
4. PROVIDE TRIMCO KICK PLATE MODEL # K0050-304 STAINLESS STEEL.
5. PROVIDE ROCKWOOD WROUGHT WALL STOP #409.
6. PROVIDE PASSAGE LOCK.
7. PROVIDE PRIVACY LOCK.

8. PROVIDE ENTRANCE/ OFFICE LOCK.
9. PROVIDE STOREROOM LOCK.
10. DOOR HINGES TO BE IVES FULL MORTISE HINGES 5 KNUCKLE 5bbi 630 FINISH (OR EQUAL).
11. PROVIDE CIPHER LOCKS MODEL: ALARMLOCK TRILOGY T2-DL700.
12. PANIC HARDWARE DOOR HARDWARE.



ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR INFO		CEILING INFO		WALL INFO				FINISH NOTES
		FINISH	BASE	FINISH	HEIGHT	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	
101	LOBBY	VCT	4" VINL.	2 x 4 ACOUSTIC	10'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 3 7
102	FSS OFFICE	VCT	4" VINL.	2 x 4 ACOUSTIC	10'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 3 7
103	FSS OFFICE	VCT	4" VINL.	2 x 4 ACOUSTIC	10'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 3 7
104	SUPPLY	VINYL FLOOR	6" VINL.	2 x 4 ACOUSTIC	9'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 3 7
105	JANITOR	VINYL FLOOR	6" VINL.	GYP BRD. PNTD	9'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 3 7
106	MENS REST ROOM	TILE	6" VINL.	GYP BRD. PNTD	9'-0" AFF	GP BD PD FRP	GYP BRD. PNTD	GP BD PD FRP	GYP BRD. PNTD	1 4 5
107	WOMENS REST ROOM	TILE	6" VINL.	GYP BRD. PNTD	9'-0" AFF	GP BD PD FRP	GYP BRD. PNTD	GP BD PD FRP	GYP BRD. PNTD	1 4 5
108	FSS OFFICE	CARPET	4" VINL.	2 x 4 ACOUSTIC	10'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 6
109	FSS OFFICE	CARPET	4" VINL.	2 x 4 ACOUSTIC	10'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 6
110	FS MANAGER	CARPET	4" VINL.	2 x 4 ACOUSTIC	10'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 6
111	FSS OFFICE	CARPET	4" VINL.	2 x 4 ACOUSTIC	9'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 6
112	IT ROOM	VINYL FLOOR	6" VINL.	GYP BRD. PNTD	10'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 3 7
113	PROCESSING	CARPET	4" VINL.	2 x 4 ACOUSTIC	9'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 6
114	MENS REST ROOM	TILE	6" VINL.	GYP BRD. PNTD	9'-0" AFF	GP BD PD FRP	GP BD PD FRP	GP BD PD FRP	GYP BRD. PNTD	1 4 5
115	WOMENS REST ROOM	TILE	6" VINL.	GYP BRD. PNTD	9'-0" AFF	GP BD PD FRP	GP BD PD FRP	GP BD PD FRP	GYP BRD. PNTD	1 4 5
116	TRAINING ROOM	CARPET	4" VINL.	2 x 4 ACOUSTIC	10'-0" AFF	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	GYP BRD. PNTD	1 2 6
117	BREAKROOM	VCT	6" VINL.	2 x 4 ACOUSTIC	9'-0" AFF	GYP BRD. PNTD	GP BD PD FRP	GYP BRD. PNTD	GYP BRD. PNTD	1 3 7
118	ELECTRICAL	VINYL FLOOR	6" VINL.	-	9'-0" AFF	-	-	-	-	

FINISH NOTES:
1. TWO COAT PAINT COLOR TO BE VISTA/DUNN-EDWARDS EGGSHELL SWISS COFFEE (OR APPROVED EQUAL).
2. FURNISH/INSTALL QUEEN ULTIMATE SATISFACTION 30 OZ. GLUE DOWN, LEVEL LOOP, COMMERCIAL GRADE CARPET.
3. PROVIDE 12" x 12" MANNINGTON COMMERCIAL ESSENTIAL STANDARD VINYL TILE, SERVER ROOMS SHALL HAVE ANTI-STATIC VCT. COLOR: 122 GLACIER.
4. PROVIDE/INSTALL NEW TILE FLOORING, MANUFACTURER TBD.
5. PROVIDE/INSTALL MARLITE FRP AND TRIM ON ALL WEST WALLS IN REST ROOMS & WATER HEATER LOCATIONS @ 48" A.F.F. (COLORS TO BE WHITE OR APPROVED EQUAL).
6. PROVIDE/INSTALL 4" JOHNSONITE VINYL WALL BASE IN ALL CARPET AREAS.
7. PROVIDE/INSTALL 6" JOHNSONITE VINYL WALL BASE IN ALL VCT AREAS. COLOR: 20-CHARCOAL.



COMcheck Software Version 3.9.2 Envelope Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**
Project Title: **NEVADA WELFARE**
Construction Site: 6390 N. Decatur 89130
Owner/Agent: Mike Brown
Designer/Contractor: LM Construction Co., Inc.
5075 Cameron
Las Vegas, NV 89118
702-262-6032

Section 2: General Information

Building Location (for weather data): **Las Vegas, Nevada**
Climate Zone: **3b**
Building Space Conditioning Type(s): **Nonresidential**
Vertical Glazing / Wall Area Pct.: **20%**

Activity Type(s): **OFFICE (Office)**
Floor Area: **12409**

Section 3: Requirements Checklist

Envelope **PASSES**. Design 1% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Floor 1: Slab-On-Grade/Unheated	536	---	---	---	---
Exterior Wall 1: Wood-Framed, 24" o.c.	7613	5.0	11.0	0.056	0.069
Window 1: Metal Frame with Thermal Break/Double Pane, Tinted, SHGC 0.25	1373	---	---	0.600	0.650
Door 1: Glass (> 50% glazing)/Metal Frame, Entrance Door, SHGC 0.25	126	---	---	0.900	0.900
Door 2: Insulated Metal, Swinging	126	---	---	0.700	0.700
Roof 1: Attic Roof with Wood Joists	12409	15.0	19.0	0.029	0.027

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- 2. Windows, doors, and skylights certified as meeting leakage requirements.
- 3. Component R-values & U-factors labeled as certified.
- 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- 5. Other components have supporting documentation for proposed U-factors.
- 6. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- 7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.

Project Title: **NEVADA WELFARE**
Data filename: **Untitled.cck**

Report date: **08/31/15**
Page 1 of 2

Project Title: **NEVADA WELFARE**
Data filename: **Untitled.cck**

Report date: **08/31/15**
Page 2 of 2

6 IECC

CITY OF NORTH LAS VEGAS
BUILDING SAFETY
SEP 29 2015
Reviewed and Accepted
Edgar Surtia



DOOR & WINDOW SCHEDULE

NEVADA WELFARE
6390 N. DECATUR BLVD.
N. LAS VEGAS, NV 89130

CONSTRUCTION CO.
5075 CAMERON SUITE #H
LAS VEGAS, NEVADA 89118
(702) 262-6032, FAX (702) 262-6150
NEVADA LIC. # 0042596A

9-14-15 CNLV COMMENTS

DRAWN BY: MS
CHECKED BY: MB
JOB NUMBER: 2029
DATE: 07-16-15

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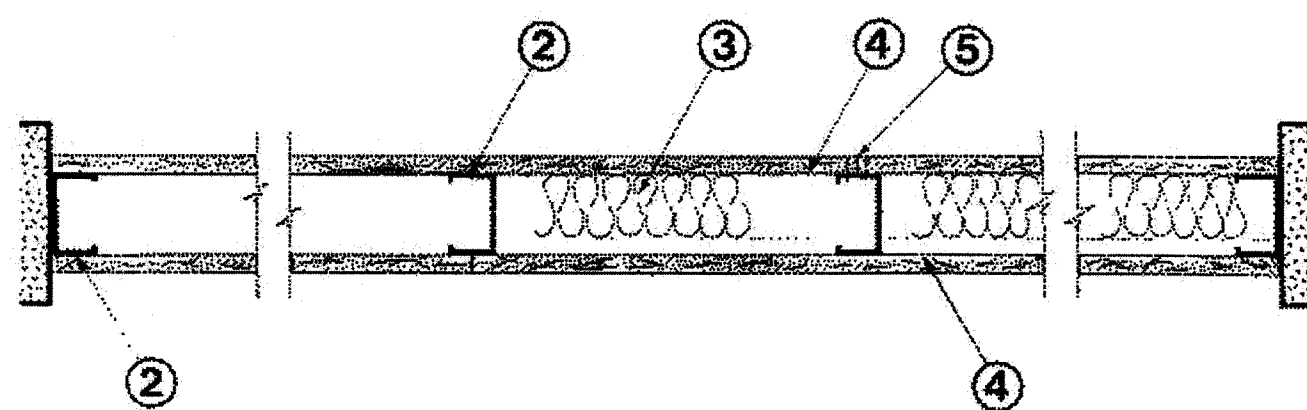
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See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. U465

May 23, 2007

Nonbearing Wall Rating — 1 HR.



1. **Floor and Ceiling Runners** — (not shown) — Channel shaped runners, 3-5/8 in. wide (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

2. **Steel Studs** — Channel shaped, 3-5/8 in. wide (min), 1-1/4 in. legs, 3/8 in. folded back returns, formed from min No. 25 MSG galv steel spaced 24 in. OC max.

3. **Batts and Blankets*** — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.

See Batts and Blankets (BZJZ) category for names of Classified companies.

3A. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft³. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft³.

U S GREENFIBER L L C — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)

3B. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3) and Item 3A — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

4. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type 5 steel screws spaced 8 in. OC, along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to item 5 (resilient channels), wallboard is screw attached to furring channels with 1 in. long, Type 5 steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AG-C, AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC

LTD CO — Type DBX-1.

CERTAINTED GYPSUM INC — Types 1, EGRG, ProRoc Type X, ProRoc Type C.

CERTAINTED GYPSUM CANADA INC — ProRoc Type C, ProRoc Type X or ProRoc Type Abuse-Resistant.

CANADIAN GYPSUM COMPANY — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

G-P GYPSUM CORP, SUB OF

GEORGIA-PACIFIC CORP — Types 5, 9, C, DAP, DD, DA, DGG, DS, GPF56.

LAFARGE NORTH AMERICA INC — Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A.

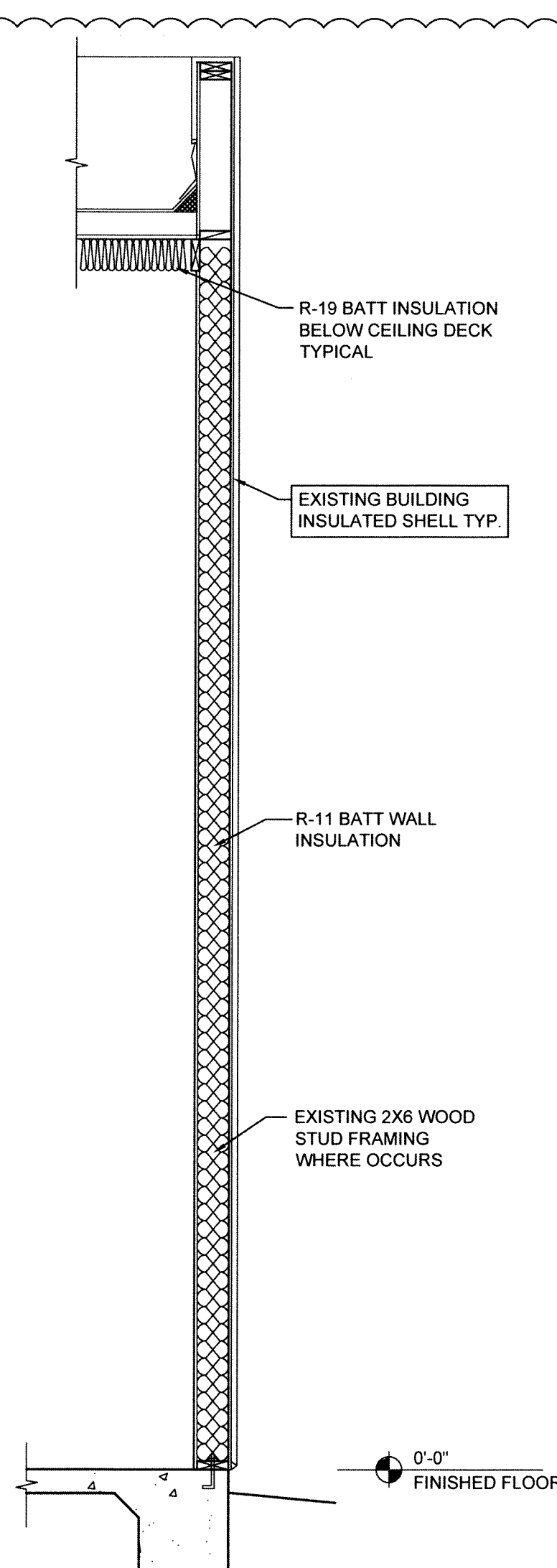
NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW-3, FSW-5.

PABCO BUILDING PRODUCTS L L C, DBA

PABCO GYPSUM — Type PG-C or PG-9.

7

UL WALL REFERENCE

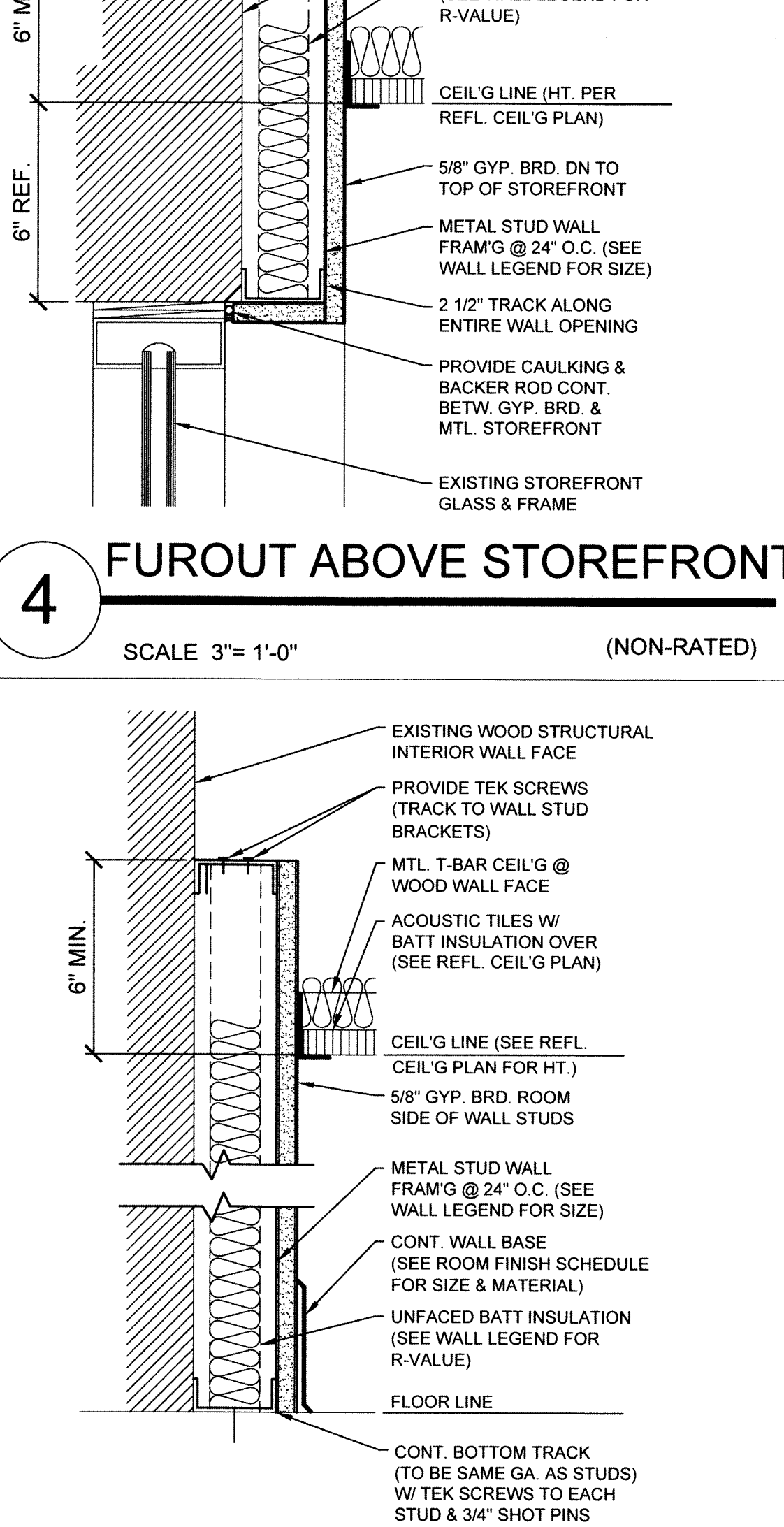


6

EXISTING EXTERIOR WALL

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(NON-RATED)

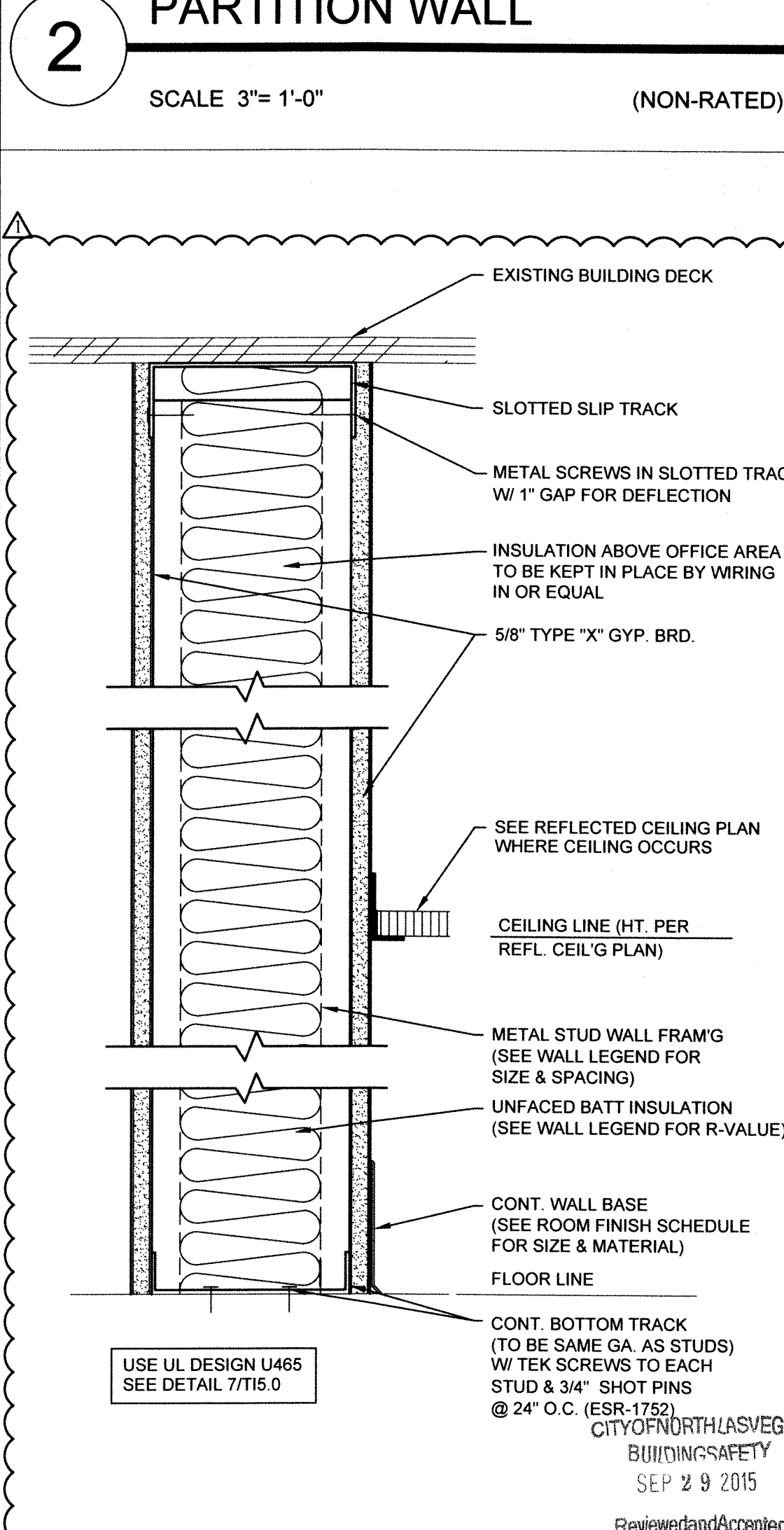


3

FUROUT @ EXTERIOR WALL

SCALE 3"= 1'-0"

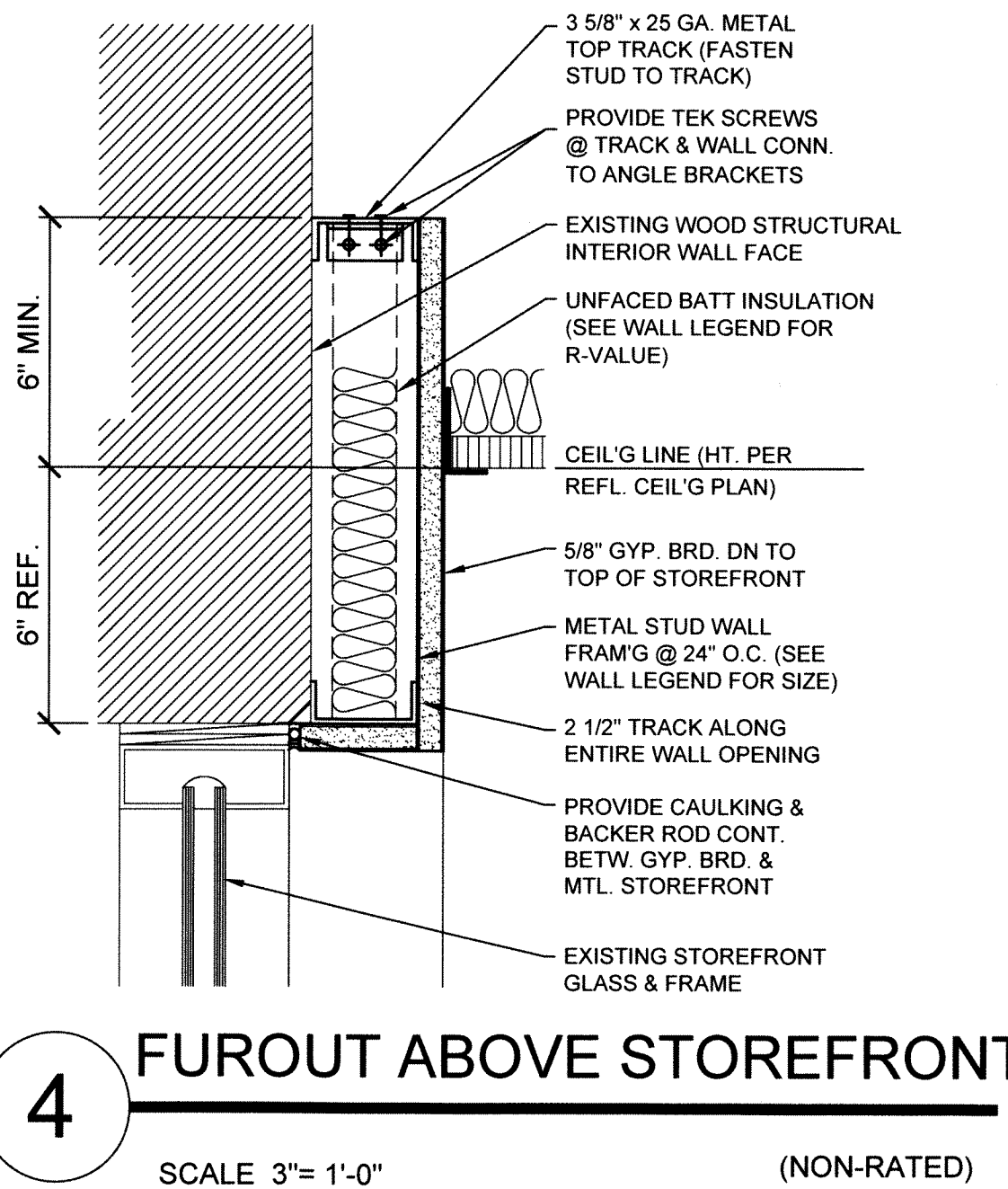
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1

1-HOUR DEMISING WALL

SCALE 3"= 1'-0"

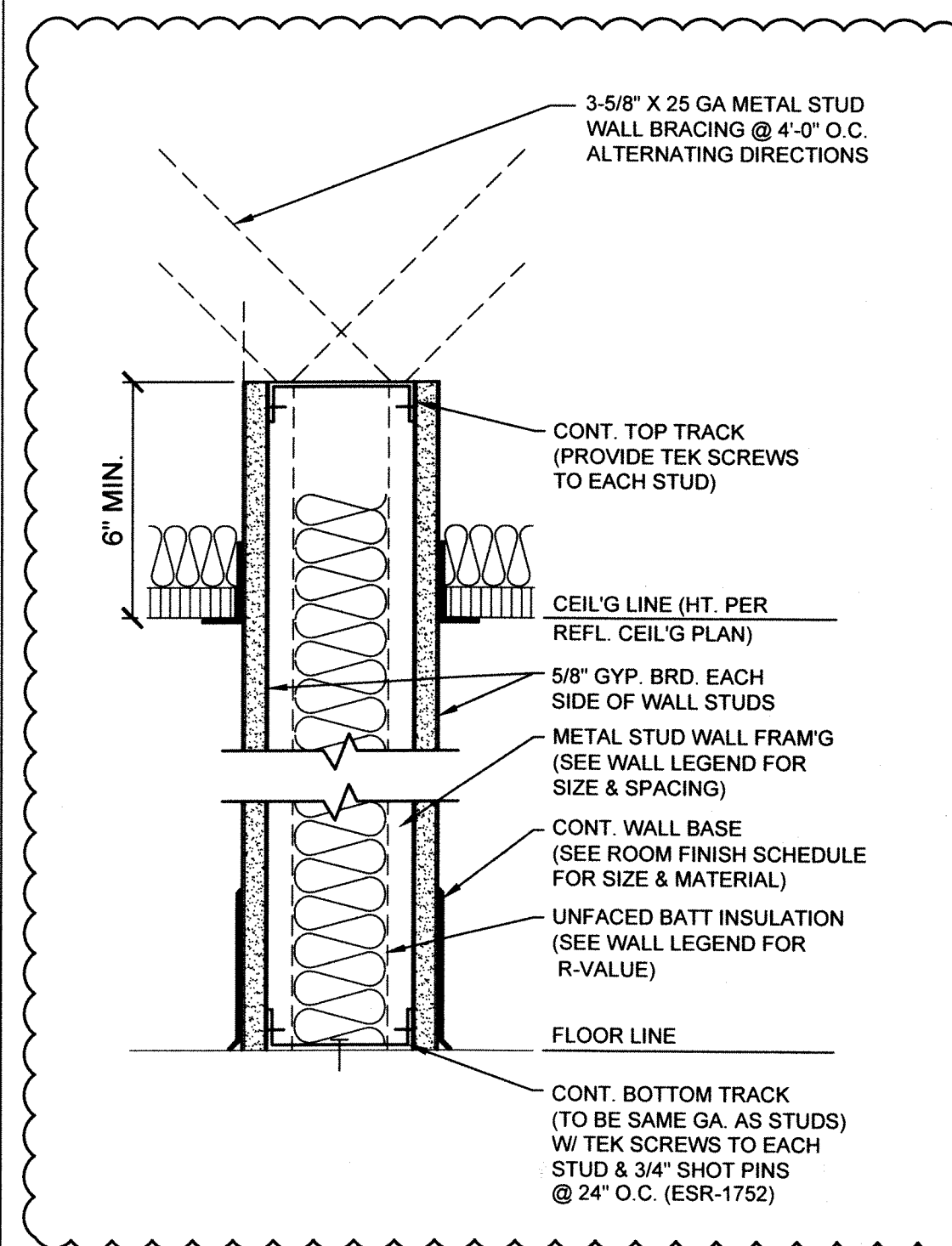


4

FUROUT ABOVE STOREFRONT

SCALE 3"= 1'-0"

(NON-RATED)

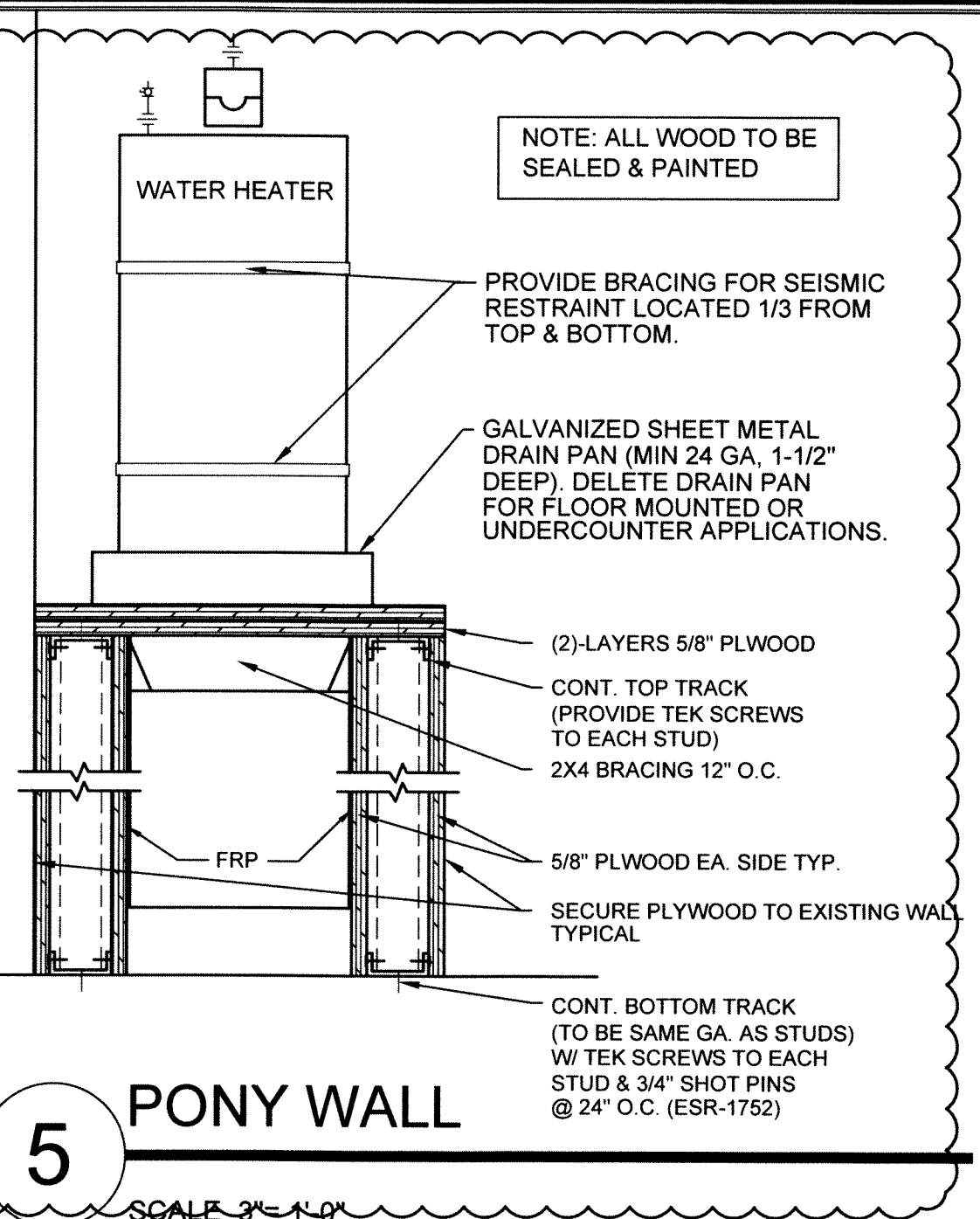


2

PARTITION WALL

SCALE 3"= 1'-0"

(NON-RATED)



5

PONY WALL

SCALE 3"= 1'-0"

(NON-RATED)

DETAILS

NEVADA WELFARE
6390 N. DECATUR BLVD.
N. LAS VEGAS, NV 89130

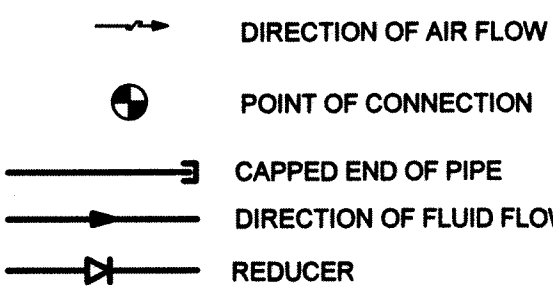
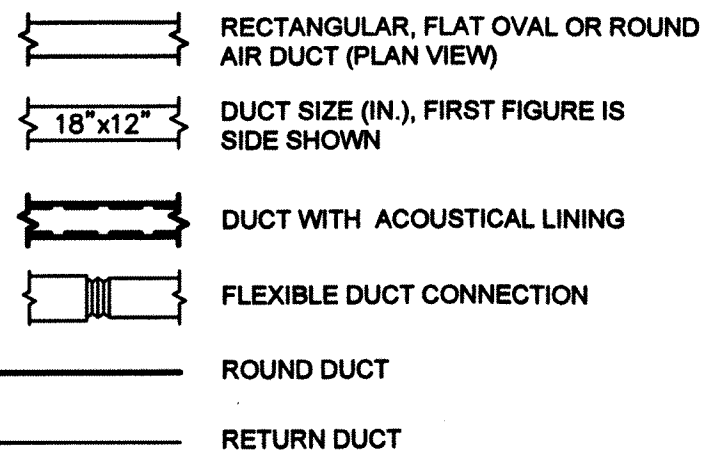
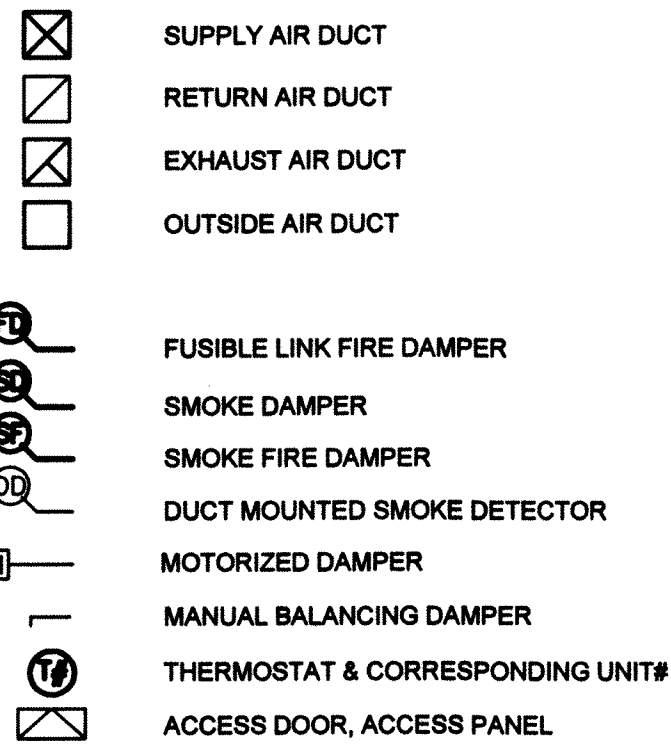
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TI 5.0

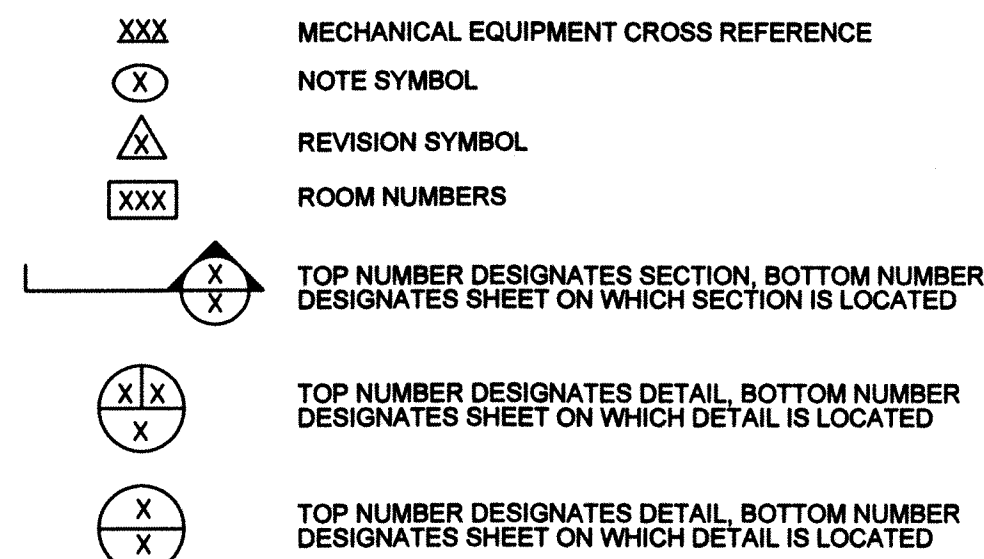
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MECHANICAL LEGEND



NOTE: SYMBOLS AND ABBREVIATIONS SHOWN MAY INCLUDE ITEMS NOT USED FOR THIS PROJECT.

ANNOTATION TAGS AND NOMENCLATURE



DUCTLESS AIR CONDITIONER													
INDOOR UNIT						CONDENSING UNIT							
SYMBOL	SPECIFIED MFR. AND SERIES NO.	TYPE	AIR FLOW (CFM)	ELECTRICAL	OPER. WEIGHT (LBS)	SYMBOL	SPECIFIED MFR. AND SERIES NO.	VOLTAGE	PHASE	MCA	MOCP	OPER. WEIGHT (LBS)	A.R.I RATING
1	QUITESIDE M# QSC-123	WALL MOUNTED (COOLING ONLY)	400	POWERED BY OUTDOOR UNIT	28.0	CU-1	QUITESIDE M# QSCC-121	115	1	9.8A	20A	79	11.8 EER
COOL ONLY TOTAL CAPACITY (BTUH)						REMARKS							
12,000						INSTALLED WITH LOW AMBIENT KIT FOR OPERATION WHEN OUTSIDE TEMPERATURE IS BELOW 70 DEGREES F.							

MECHANICAL NOTES AND SPECIFICATIONS

- SUPPLY DIFFUSERS TO BE STEP DOWN TYPE. CARNES, KRUGER, TITUS, J & J OR EQUAL.
- RETURN GRILLS TO MATCH SUPPLY DIFFUSERS, UNLESS OTHERWISE NOTED.
- VERIFY FIELD CONDITIONS AND ARCHITECTURAL PLANS.
- ANY TRANSITIONS OR OFFSETS IN DUCTWORK SHALL BE MADE AS TO MAINTAIN THE FACE AREA OF THE DUCTWORK QUAL TO OR GRATER THAN SIZE LISTED ON PLANS.
- PROVIDE DIGITAL, PROGRAMMABLE, THERMOSTAT AT 48" ABOVE FINISHED FLOOR, 1 STAGE HEAT, EMERGENCY HEAT AND 1 STAGE COOL. THERMOSTATS TO COMPLY WITH 2009 IECC AND PROVIDE FOR 7-DAY PROGRAMMABLE FEATURES.
- MECHANICAL CONTRACTOR TO PROVIDE MANUAL VOLUME DAMPERS FOR ALL SUPPLY AIR DIFFUSERS.
- ALL DUCT JOINTS TO BE SEALED WITH TWO WRAPS OF DUCT TAPE. METAL DUCTWORK SHALL BE WRAPPED AFTER BEING FASTENED WITH THREE SHEET METAL SCREWS, EXCEPT IN EXPOSED LOCATIONS.
- INSTALLING CONTRACTOR TO SURVEY, SITE AND STUDY COMPLETE ARCHITECTURAL PLANS. A-1 MECHANICAL, INC. WILL NOT BE LIABLE FOR DETAILS OMITTED ON PLANS WHICH MAY BE REQUIRED IN THE FIELD. THIS PLAN IS A DIAGRAMMATIC IN NATURE, THE PLAN DOES NOT SHOW ALL TRANSITIONS OR FITTINGS WHICH MAY BE REQUIRED.
- INSTALLING CONTRACTOR TO SUPPLY ALL MATERIALS AND LABOR WHICH COMPRISE A COMPLETE WORKING H.V.A.C. SYSTEM THAT COMPLIES WITH THE MOST RESTRICTIVE BUILDING AND MECHANICAL CODES IN EFFECT.
- ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH AND SEALED BY THE ROOFING CONTRACTOR. CONTRACTOR SHALL INSTALL EQUIPMENT AND FLASHINGS AFTER VERIFYING INSTALLATION WITH THE ROOFING CONTRACTOR AND ARCHITECT.
- ALL WORK AND MATERIALS SHALL COMPLY WITH THE MOST RESTRICTIVE GOVERNING CODES AND REGULATIONS IN EFFECT.
- SERVICE, REPAIR, OR REPLACEMENT OF EXISTING UNITS, TERMINAL BOXES, AIR HANDLING UNITS, REMOVE CONDENSERS, FURNACES, BOILERS, FANS, CONTROLS, OR THERMOSTATS ARE NOT INCLUDED IN THIS SCOPE OF WORK UNLESS SPECIFICALLY ADDRESSED AND DETAILED ON THE MECHANICAL DRAWINGS. SUCH ITEMS SHALL BE REPAIRED AND THE COST CHARGED TO THE BUILDING OWNER AS A SEPARATE CHANGE-ORDER.
- THIS INSTALLATION SHALL COMPLY WITH THE 2012 EDITION OF THE UNIFORM MECHANICAL CODE, THE UNIFORM BUILDING CODE THE UNIFORM PLUMBING CODE, THE 2009 INTERNATIONAL FIRE CODE, THE 2012 INTERNATIONAL BUILDING CODE AND ALL OTHER GOVERNING CODES AS APPLICABLE.
- ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE DUCT CONSTRUCTION STANDARDS SET FORTH IN THE MECHANICAL CODE. THE MINIMUM R RATING OF INSULATION OF MECHANICAL DUCTS LOCATED IN UNCONDITIONAL SPACE IS R-6 AND OUTSIDE THE BUILDING IS R-8 PER IECC 2009.
- ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE, SUSPENDED EQUIPMENT SHALL HAVE SEISMIC RESTRAINTS.
- SET FRESH AIR DAMPER ON EACH AIR HANDLER TO PROVIDE A MINIMUM CFM PER OUTSIDE AIR CALCULATIONS SCHEDULE.
- AIR MOVING EQUIPMENT IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUT OFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE MAIN SUPPLY AIR DUCT SERVED BY SUCH EQUIPMENT. SMOKE DETECTORS SHALL BE LABELED BY AN APPROVED AGENT FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITY OF THE SYSTEM. WHERE FIRE DETECTORS OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, THE SMOKE DETECTORS REQUIRED BY THIS SECTION SHALL BE SUPERVISED BY SUCH SYSTEM.
- ACCESS SHALL BE PROVIDED TO ALL HVAC EQUIPMENT, ROOF LADDERS, HATCHES, STAIRS OR OTHER ACCESSSES SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SHALL COMPLY WITH THE UNIFORM MECHANICAL CODE. ROOF HATCH IS EXISTING AND LOCATED IN THE RISER ROOM, SHOWN ON SHEET M2.1 WITH A DELTA 1 CLOUD.
- ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES, WHEN MORE THAN ONE HEATING OR COOLING UNIT SERVICES THE OCCUPANTS.
- COORDINATE ALL DIFFUSER AND GRILL LOCATIONS WITH THE ELECTRICAL LIGHTING PLAN AND ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL INSULATION FOR DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE IECC 503.2.7
- READILY VISIBLE ANNUNCIATORS FOR THE SMOKE DETECTORS WILL BE CLOSE TO THE THERMOSTATS FOR THE UNITS IT SERVES. FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT, WIRE AND ANNUNCIATOR IN A VISIBLE AND ACCESSIBLE LOCATION, LABELED TO INDICATE FUNCTION AND UNIT SERVED.

ROOFTOP PACKAGE HEAT PUMP UNIT SCHEDULE													
UNIT DESCRIPTION						UNIT ELECTRICAL							
SYMBOL	SPECIFIED MFR. AND MODEL NO.	TYPE	S.A. CFM	O.A. CFM	TOTAL TONS	COOLING BTUH	MIN EFFICIENCY (EER)	HEATING BTUH INPUT	MAX WEIGHT (LBS)	FLA	MOCP	VOLTS/PH	REMARKS
RTU-1	CARRIER 50HJQ007	ROOFTOP MOUNTED	2,400	550	6	71,000	-	69,000	-	32.8	50	208-230/3	EXISTING
RTU-2	CARRIER 50HJQ007	ROOFTOP MOUNTED	2,400	550	6	71,000	-	69,001	-	32.8	50	208-230/3	EXISTING
RTU-3	CARRIER 50HJQ007	ROOFTOP MOUNTED	2,300	95	6	71,000	-	69,002	-	32.8	50	208-230/3	EXISTING
RTU-4	CARRIER 50HJQ007	ROOFTOP MOUNTED	2,400	105	6	71,000	-	69,003	-	32.8	50	208-230/3	EXISTING
RTU-5	CARRIER 50TCQA07	ROOFTOP MOUNTED	2,400	115	6	70,000	11.1	67,000	590	32.8	50	208-230/3	NEW REPLACEMENT UNITS. SAME MAKE/MODEL NUMBERS ON EXISTING CURBS
RTU-6	CARRIER 50TCQD09	ROOFTOP MOUNTED	3,010	100	8.5	99,000	11.2	96,000	910	44.2	60	208-230/3	NEW REPLACEMENT UNITS. SAME MAKE/MODEL NUMBERS ON EXISTING CURBS
RTU-7	CARRIER 50TCQD09	ROOFTOP MOUNTED	3,400	160	8.5	99,000	11.2	96,000	910	44.2	60	208-230/3	NEW REPLACEMENT UNITS. SAME MAKE/MODEL NUMBERS ON EXISTING CURBS
RTU-8	CARRIER 50TCQD09	ROOFTOP MOUNTED	3,400	750	8.5	99,000	11.2	96,000	910	44.2	60	208-230/3	NEW REPLACEMENT UNITS. SAME MAKE/MODEL NUMBERS ON EXISTING CURBS
RTU-9	CARRIER 50TCQD09	ROOFTOP MOUNTED	3,400	105	8.5	99,000	11.2	96,000	910	44.2	60	208-230/3	NEW REPLACEMENT UNITS. SAME MAKE/MODEL NUMBERS ON EXISTING CURBS

- NOTES:
- PERMANENTLY SET ECONOMIZER FOR MINIMUM O.S.A. REQUIRED. EACH RTU WILL BE FURNISHED WITH AN OUTSIDE AIR ECONOMIZER.
 - SMOKE DETECTORS TO BE PROVIDED BY FIRE ALARM CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.
 - SEE MOUNTING DETAIL 1/M1.0
 - CONDENSATE TO BE PROVIDED BY PLUMBER
 - DEMAND CONTROL VENTILATION WILL BE PROVIDED FOR RTU-8. SEE SHEET M5.0 FOR DESCRIPTION, SEQUENCE OF OPERATION, HONEYWELL PARTS AND LOCATION OF SENSORS.

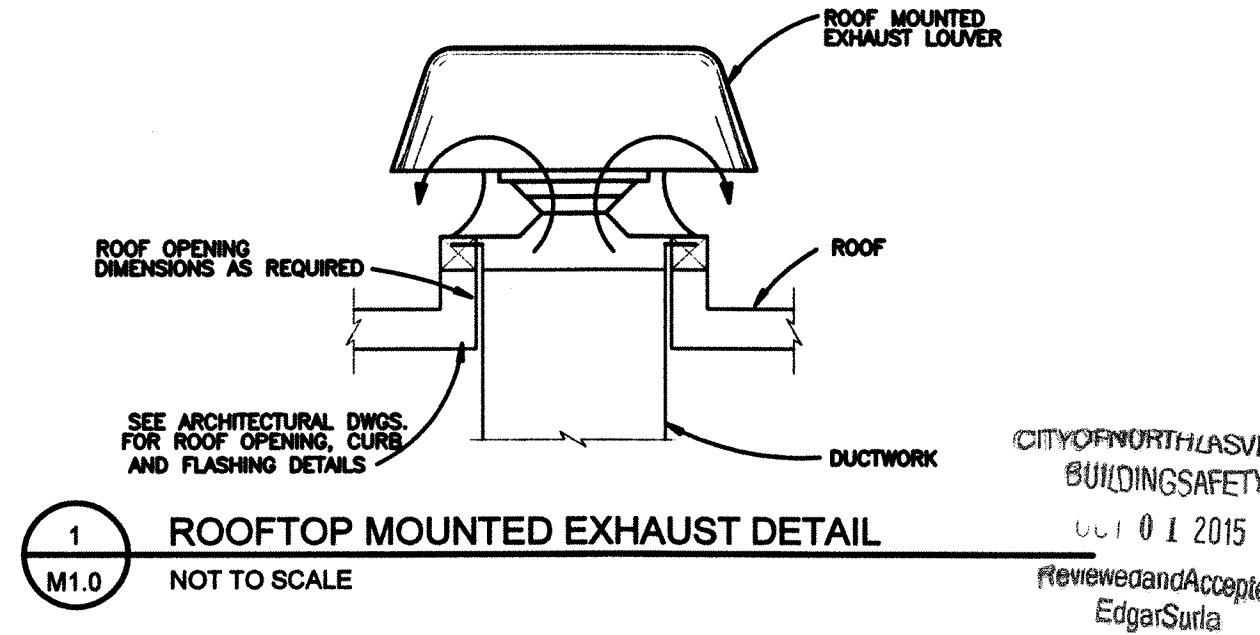
EXHAUST FAN SCHEDULE									
SYMBOL	SPECIFIED MANF. AND SERIES NO.	TYPE	CFM	ESP	EQUIP. WEIGHT	UNIT ELECTRICAL LOAD	VOLTS/PH	REMARKS	
EF-1	GREENHECK M# G-080	ROOF MOUNT	400	0.25"	38LBS	3.4A	120/1	VENT THROUGH THE ROOF WITH ROOF CAP, BIRD SCREEN AND THERMAL OVERLOAD. FANS SET TO RUN CONTINUOUSLY DURING OCCUPANCY.	
EF-2	GREENHECK M# G-075	ROOF MOUNT	330	0.25"	34 LBS	3.4A	120/1	VENT THROUGH THE ROOF WITH ROOF CAP, BIRD SCREEN AND THERMAL OVERLOAD. FANS SET TO RUN CONTINUOUSLY DURING OCCUPANCY.	

NOTE: SEE DETAIL 1/M1.0 - EACH EXHAUST WILL BE FURNISHED WITH A BACKDRAFT DAMPER.

OUTSIDE AIR CALCULATIONS				
OCCUPANCY AREA	SQ. FT.	ACT. # PEOPLE	CFM / PERSON	CFM
OFFICE	7,185	72	15	1,080
TRAINING	1,415	71	15	1,080
RESTROOMS	892	12	5	60
LOBBIES	2,724	182	15	2,730
TOTAL OUTDOOR AIR REQUIRED IS:				4,935
TOTAL OUTDOOR AIR SUPPLIED IS:				2,530
TOTAL OUTDOOR AIR SUPPLIED IS:				4,975

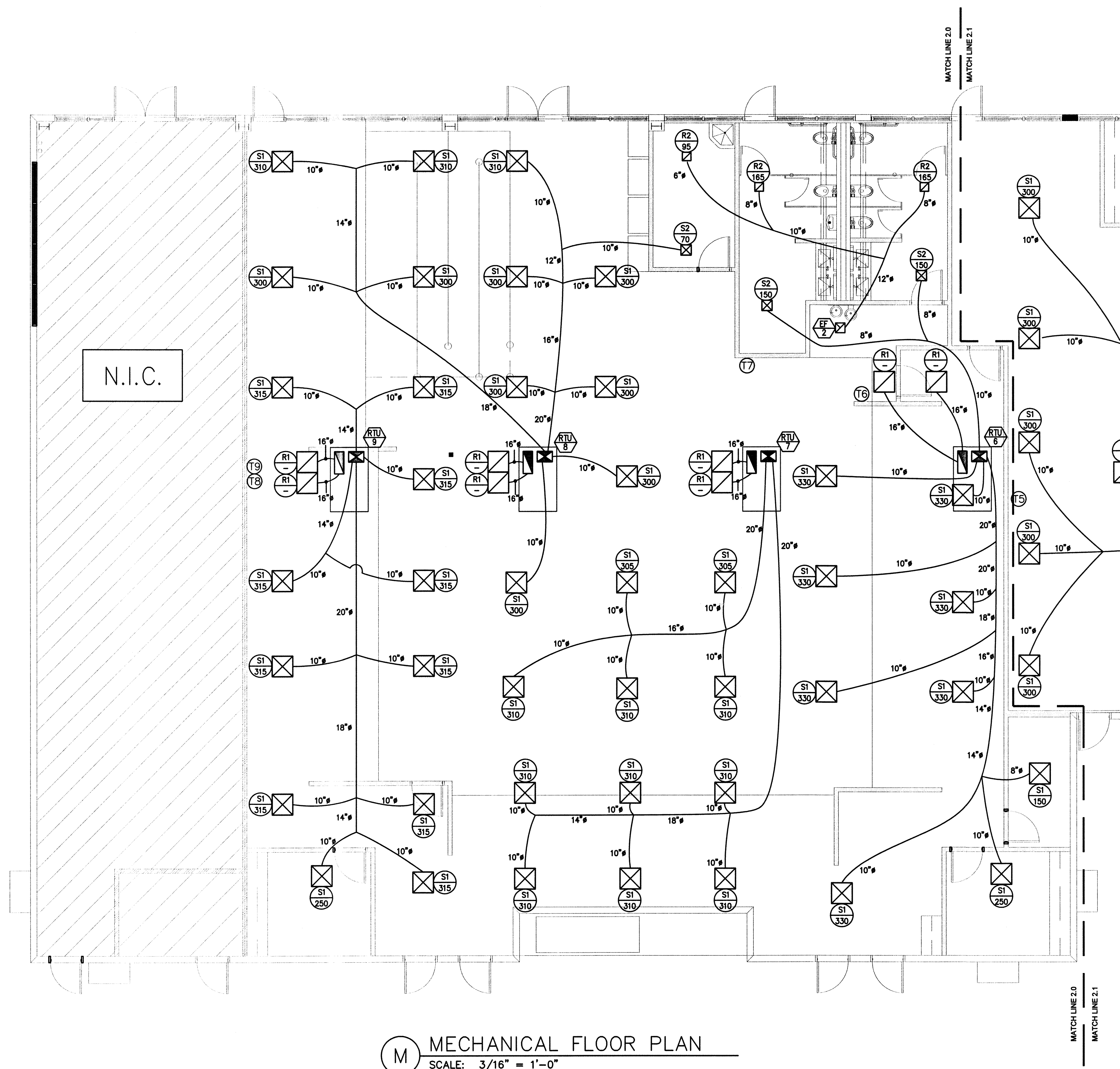
AIR BALANCE SCHEDULE				
SUPPLY AIR EQUIPMENT	SUPPLY CFM	RETURN CFM	OSA CFM	TOTAL CFM
RTU-1	2,400	1,950	550	2,400
RTU-2	2,400	1,850	550	2,400
RTU-3	2,300	2,205	95	2,300
RTU-4	2,400	2,295	105	2,400
RTU-5	2,400	2,285	115	2,400
RTU-6	3,010	2,910	100	3,010
RTU-7	3,400	3,240	160	3,400
RTU-8	3,400	2,850	750	3,400
RTU-9	3,400	3,295	105	3,400
TOTAL OUTSIDE AIR				2,530

DIFFUSER SCHEDULE				
SYMBOL	SPECIFIED MANUFACTURER AND SERIES NUMBER	TYPE	NECK SIZE	PANEL SIZE
S-1	J&J SERIES 1500 (OR EQUAL)	SUPPLY	REFER TO PLANS	24"x24"
S-2	J&J SERIES 900 (OR EQUAL)	SUPPLY	REFER TO PLANS	10"x10"
R-1	J&J SERIES 1230 (OR EQUAL)	RETURN	REFER TO PLANS	24"x24"
R-2	J&J SERIES 900 (OR EQUAL)	RETURN	REFER TO PLANS	10"x10"



DRAWING INDEX			
	DATE	DELTA	ISSUE DESCRIPTION
	8/31/2015	1	ONLY REVIEW COMMENTS 8/31/15
	9/30/2015	2	ONLY COMMENTS 9/30/15

PROJECT INFORMATION		MECHANICAL FLOOR PLAN		DEPARTMENT OF WELFARE AND SUPPORTIVE SERVICES		3300 N DECATUR BLVD., SUITES 100-140 NORTH LAS VEGAS, NV 89130		THIS DRAWING IS THE EXCLUSIVE PROPERTY OF A-1 MECHANICAL AND WAS PREPARED FOR THE EXCLUSIVE USE OF A-1 MECHANICAL FOR THE SERVICES PERFORMED BY A-1 MECHANICAL. NO USE, REPRODUCTION, OR DUPLICATION OF THIS DRAWING, IN PART OR WHOLE MAY BE MADE WITHOUT WRITTEN PERMISSION OF A-1 MECHANICAL.	
REVISIONS:		NO. 1		DATE: 8/31/2015		ONLY - REVIEW COMMENTS 8/24/15		ONLY COMMENTS 9/30/2015	
GENERAL INFORMATION:		DRPATER: EP		DESIGNER: JD		OPS MANAGER: JD		PROJECT MANAGER: JD	
DATE: 7/8/2015		NO SCALE		1 OF 6		JOB NO:		JOB SITE COPY	
M1.0		M1.0		M1.0		M1.0		M1.0	



(M) MECHANICAL FLOOR PLAN
SCALE: 3/16" = 1'-0"

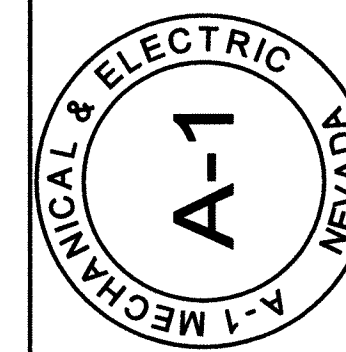
GENERAL NOTES:
1. ALL AIR INTAKE SHALL BE INSTALLED AT A MINIMUM OF 10'-0" AWAY FROM ANY EXHAUST OUTLET.

CITY OF NORTH LAS VEGAS
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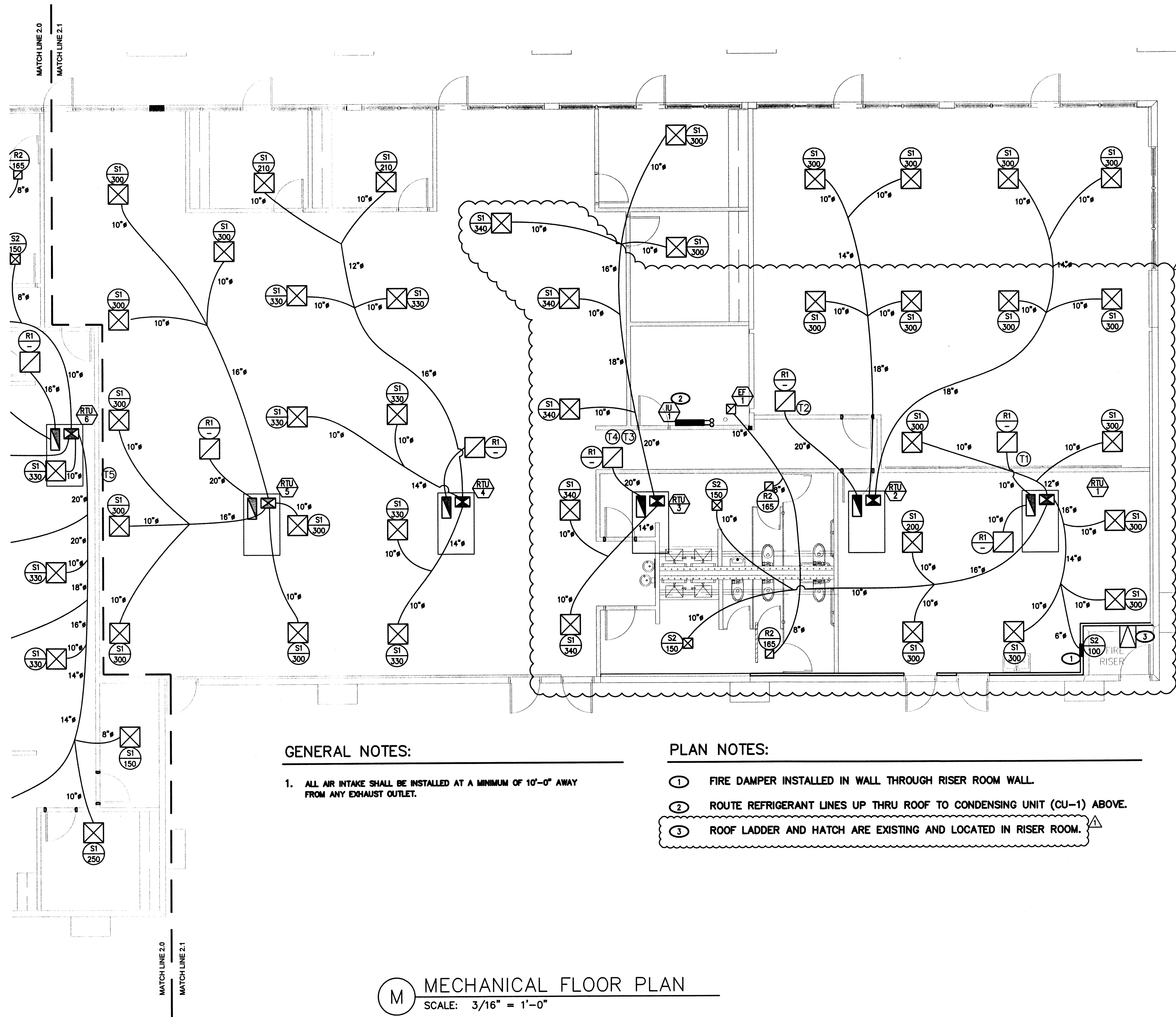
GENERAL INFORMATION:		DATE:	NO.:	REVISIONS:	
DRAWN:	EP				
DESIGNED:	JD				
OPS. MANAGER:	JD				
PROJECT MANAGER:	JD				
DATE:	7/8/2015				
SCALE:	3/16" = 1'-0"				
SHEET:	2 OF 5				
JOB NO.:					
M2.0					

PROJECT INFORMATION	
MECHANICAL FLOOR PLAN	
DEPARTMENT OF WELFARE AND SUPPORTIVE SERVICES	
6390 N. DECATUR BLVD., SUITES 100-140 NORTH LAS VEGAS, NV 89130	
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QUALIFIED EMPLOYEE	
SIGNATURE	DATE
<i>John Davis</i>	7-14-15
5886 POLARIS AVENUE LAS VEGAS, NEVADA 89118 TELEPHONE: 702-363-6222, FAX: 702-314-5808 MECHANICAL LIC. NO. 86241, ELECTRICAL LIC. NO. 60483	



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GENERAL NOTES:

- ALL AIR INTAKE SHALL BE INSTALLED AT A MINIMUM OF 10'-0" AWAY FROM ANY EXHAUST OUTLET.

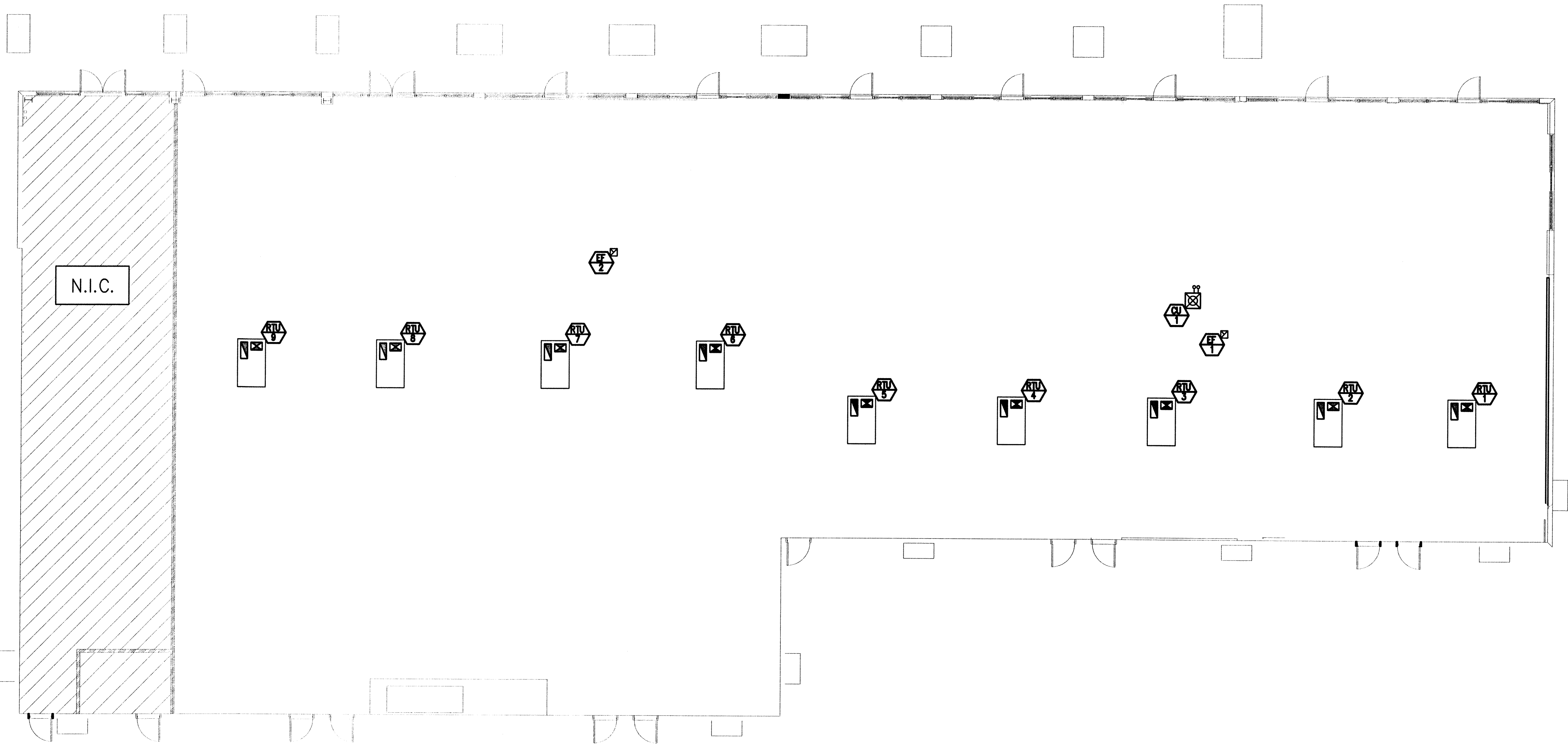
PLAN NOTES:

- FIRE DAMPER INSTALLED IN WALL THROUGH RISER ROOM WALL.
- ROUTE REFRIGERANT LINES UP THRU ROOF TO CONDENSING UNIT (CU-1) ABOVE.
- ROOF LADDER AND HATCH ARE EXISTING AND LOCATED IN RISER ROOM.

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PROJECT INFORMATION MECHANICAL FLOOR PLAN CONTINUATION DEPARTMENT OF WELFARE AND SUPPORTIVE SERVICES 6390 N DECATUR BLVD., SUITES 100-140 NORTH LAS VEGAS, NV 89130		SIGNATURE: <i>John Davis</i> DATE: 8-31-15 QUALIFIED EMPLOYEE	
GENERAL INFORMATION: DRAFTER: EP DESIGNER: JD OPS MANAGER: JD PROJECT MANAGER: JD DATE: 7/8/2015 SCALE: 3/16" = 1'-0" SHEET: 3 OF 5		REVISIONS: NO. 1 DATE: 8/31/2015 ONLY REVIEW COMMENTS 8/24/15	
JOB NO: M2.1		JOB NO:	

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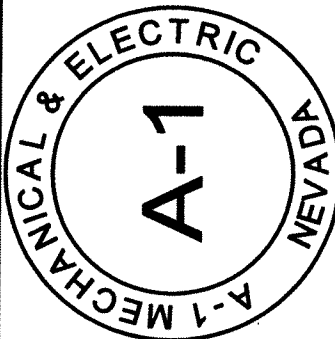
M MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL AIR INTAKE SHALL BE INSTALLED AT A MINIMUM OF 10'-0" AWAY FROM ANY EXHAUST OUTLET.

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BUILDINGS SAFETY
SEP 29 2015
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GENERAL INFORMATION:		DATE:		NO:		REVISIONS:		PROJECT INFORMATION:		SIGNATURE		DATE:		QUALIFIED EMPLOYEE	
DRAFTER:		EP						MECHANICAL ROOF PLAN		John Davis		7-14-15			
DESIGNER:		JD						DEPARTMENT OF WELFARE AND SUPPORTIVE SERVICES							
OPS MANAGER:		JD						6390 N DECATUR BLVD., SUITES 100-140							
PROJECT MANAGER:		JD						NORTH LAS VEGAS, NV 89130							
DATE:		7/8/2015						THIS DRAWING IS THE EXCLUSIVE PROPERTY OF A-1 MECHANICAL AND WAS PREPARED FOR THE EXCLUSIVE USE OF A-1 MECHANICAL FOR THE SERVICES PERFORMED BY A-1 MECHANICAL. NO USE, REPRODUCTION, OR COPIATION OF THIS DRAWING, IN PART OR WHOLE MAY BE MADE WITHOUT WRITTEN PERMISSION OF A-1 MECHANICAL.							
SCALE:		1/8" = 1'-0"													
SHEET:		1 OF 5													
JOB NO:															
M3.0															



6985 POLARIS AVENUE LAS VEGAS, NEVADA 89118
TELEPHONE: 702-363-6222, FAX: 702-314-5808
MECHANICAL LIC. NO. 86241, ELECTRICAL LIC. NO. 50483

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COMcheck Software Version 4.0.1
Mechanical Compliance Certificate

Section 1: Project Information

Energy Code: 2009 IECC
Project Title: Department of Welfare Supportive Services
Project Type: Alteration

Construction Site: 6390 N. Decatur Blvd., Suites 100-140
North Las Vegas, NV 89130
Owner/Agent: LM Construction Co.
5075 Cameron St., #H
Las Vegas, NV 89118
Designer/Contractor: A-1 Mechanical & Electric
5985 Polaris Ave.
Las Vegas, NV 89118

Section 2: General Information

Building Location (for weather data): Las Vegas, Nevada
Climate Zone: 3b

Section 3: Mechanical Systems List

Quantity	System Type & Description
1	RTU-5 (Single Zone): Single Package Heat Pump Heating Mode: Capacity = 67000 kBtu/h, Proposed Efficiency = 3.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 70000 kBtu/h, Air Economizer Proposed Efficiency = 11.10 EER, Required Efficiency = 9.50 EER Fan System: None
4	RTU 6-9 (Single Zone): Single Package Heat Pump Heating Mode: Capacity = 96000 kBtu/h, Proposed Efficiency = 3.40 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 99000 kBtu/h, Air Economizer Proposed Efficiency = 11.20 EER, Required Efficiency = 9.50 EER Fan System: None
1	IU-1 & CU-1 (Single Zone): Cooling: 1 each - Split System (Ductless Split), Capacity = 12000 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: High Efficiency Equipment Proposed Efficiency = 11.80 EER, Required Efficiency = 11.15 EER Fan System: None

Section 4: Requirements Checklist

Requirements Specific To: RTU-5:

- ☐ 1. Equipment minimum efficiency: Heat Pump: 3.20 COP 9.50 EER (9.2 IPLV)
☐ 2. Discharge dampers prohibited with fan motors > 25 hp
☐ 3. Integrated economizer is required for this location and system.
☐ 4. Cooling system provides a means to relieve excess outdoor air during economizer operation.

Requirements Specific To: RTU 6-9:

- ☐ 1. Equipment minimum efficiency: Heat Pump: 3.20 COP 9.50 EER (9.2 IPLV)
☐ 2. Discharge dampers prohibited with fan motors > 25 hp
☐ 3. Integrated economizer is required for this location and system.
☐ 4. Cooling system provides a means to relieve excess outdoor air during economizer operation.

Requirements Specific To: IU-1 & CU-1:

Project Title: Department of Welfare Supportive Services
Data Filename: S:\AutoCad\NV Welfare Office\NV Welfare 7-15-15.cck

Report date: 08/31/15
Page 1 of 3

- ☐ 1. Equipment minimum efficiency: Split System: 11.15 EER
☐ 2. Discharge dampers prohibited with fan motors > 25 hp
☐ 3. Integrated economizer is required for this location and system.
☐ 4. Hot gas bypass prohibited unless system has multiple steps of unloading or continuous capacity modulation
☐ 5. Hot gas bypass limited to 25% of total cooling capacity

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 mastic
☐ 10. Hot water pipe insulation: 1.5 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in.
Chilled water/refrigerant/brine 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 AHR840 rating).
☐ Runouts <4 ft in length.
☐ 11. Operation and maintenance manual provided to building owner
☐ 12. Balancing devices provided in accordance with IMC 603.17
☐ 13. Demand control ventilation (DCV) present for high design occupancy areas (>40 persons/1000 ft² in spaces >500 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.
☐ 14. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
Exception(s):
☐ Gravity dampers acceptable in buildings <3 stories
☐ 15. Automatic controls for freeze protection systems present
☐ 16. 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 50 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 8, requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements in the Requirements Checklist.

Eric Polashnick-V.P. Eric Polashnick-V.P. 8/31/15
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

Project Title: Department of Welfare Supportive Services
Data Filename: S:\AutoCad\NV Welfare Office\NV Welfare 7-15-15.cck

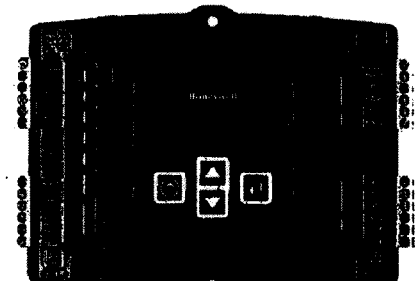
Report date: 08/31/15
Page 3 of 3

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		5985 POLARIS AVENUE LAS VEGAS, NEVADA 89118 TELEPHONE: 702-363-6222, FAX: 702-914-5808 MECHANICAL LIC. NO. 95241, ELECTRICAL LIC. NO. 80483	
PROJECT INFORMATION		IECC DEPARTMENT OF WELFARE AND SUPPORTIVE SERVICES 6390 N. DECATUR BLVD., SUITES 100-140 NORTH LAS VEGAS, NV 89130	
GENERAL INFORMATION:	REVISIONS:	DATE:	NO.:
DRAWER: EP	1	8/31/2015	1
DESIGNER: JD			
OPS MANAGER: JD			
PROJECT MANAGER: JD			
DATE: 7/8/2015			
SCALE: NO SCALE			
SHEET: 5 OF 5			
M4.0			
JOB NO:		JOB NO:	
SIGNATURE: JOHN DAVIS		DATE:	
QUALIFIED EMPLOYEE			

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JADE™ Economizer Module (MODEL W7220)



PRODUCT DESCRIPTION

The JADE™ Economizer System is an expandable economizer control system, which includes a W7220 Economizer Module (controlled) with an LCD and keypad. The W7220 can be configured with optional sensors.

The W7220 Economizer Module can be used as a stand-alone economizer module wired directly to a commercial set back space thermostat and sensors to provide Outdoor Air dry-bulb economizer control.

The W7220 Economizer Module can be connected to optional Syk Bus sensors for single or differential enthalpy control. The W7220 Economizer Module provides power and communications on the Syk Bus for the Syk Bus sensors.

The W7220 Economizer Module automatically detects sensors by polling to determine which sensors are present. If a sensor loss communications after it has been detected, the W7220 Economizer indicates a device fail error on its LCD.



PRODUCT DATA

System Components

The JADE™ Economizer System includes an Economizer Module, 20k mixed air sensor, damper actuator, an optional CO₂ sensor, and either a 20k outdoor air temperature sensor or Syk Bus sensors for measuring Outdoor Air and return air enthalpy, temperature, and humidity.

Economizer Module

This is the core of the JADE™ Economizer System and includes the user interface for the system. The W7220 Economizer Module provides the basic inputs and outputs to provide simple economizer control. When used with the optional Syk Bus sensors, the Economizer Module provides more advanced economizer functionality.

Syk Bus Sensors (optional)

The Syk Bus Sensor is a combination temperature and humidity sensor which is powered by and communicates on the Syk Bus. Up to three sensors may be configured with the JADE™ Economizer Module. See page 2 for details.

CO₂ Sensor (optional)

A CO₂ sensor can be added to Demand Control Ventilation (DCV). Either an analog (0-10 Vdc) or a wall-mount Syk Bus TR40 CO₂ sensor can be used with the Jade economizer.

PC MOD Tool (optional)

The PC MOD tool is connected to a personal computer and communicates with the Jade economizer controller via the Syk bus. The W7220 PCMOD tool software is free and can be downloaded from the web in the Accessories section.

Some features on the Jade controller can only be enabled or disabled using the W7220 PC MOD tool. See the PC MOD tool options section in Table 5.

Contents
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Specifications
Before Installation
Installation and Setup
Mounting
Wiring
Wiring Application Examples
Interface Overview
Sensor and Configuration
Checklist
Troubleshooting

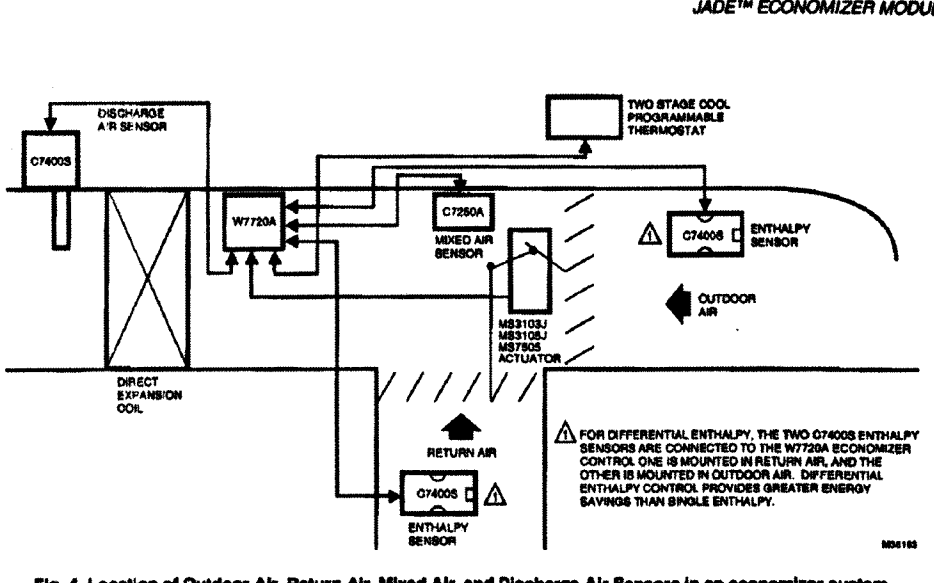
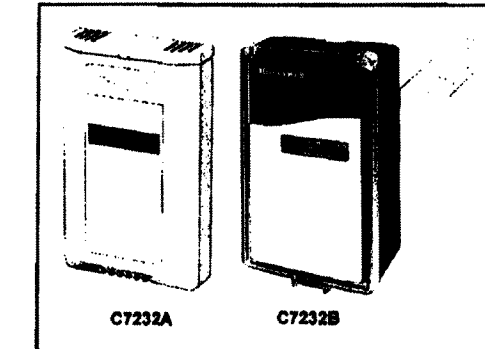


Fig. 4. Location of Outdoor Air, Return Air, Mixed Air, and Discharge Air Sensors in an economizer system.

Honeywell C7232A,B Sensor and Controller CARBON DIOXIDE SENSOR



APPLICATION

The C7232 Sensor and Controller is a stand-alone carbon dioxide (CO₂) sensor for use in determining ventilation necessity with HVAC controllers. The C7232 measures the CO₂ concentration in the ventilated space or duct. The C7232 is used in ventilation and air conditioning systems to control the amount of fresh outdoor air supplied to maintain acceptable levels of CO₂ in the space.

FEATURES

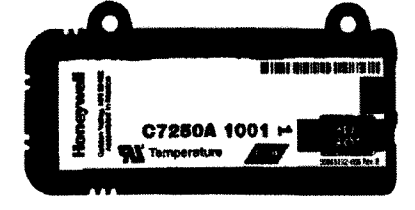
- Models available with LCD that provides sensor readings and status information.
- Non-Dispersion-Infrared (NDIR) technology used to measure carbon dioxide gas.
- Gold-plated sensor provides long-term calibration stability.
- Device provides voltage output based on CO₂ levels.
- Models available with SPST relay output.
- Used for CO₂ based ventilation control.
- Automatic Background Calibration (ABC) algorithm based on long-term evaluation reduces required typical zero-drift check maintenance.

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C7250 Mixed Air Sensor



PRODUCT DESCRIPTION

The C7250 Mixed Air sensor is designed for use as a 20k input to a controller for mixed air temperature in rooftop packaged air conditioning equipment.

A separate controller such as the JADE™ Economizer System (Model W7220) provides power and communications for the C7250 Mixed Air sensor.

SPECIFICATIONS

Electrical

Output Rating: 20k ohms at 77 °F (25 °C)

Wiring: 2-wire (18 to 22 AWG)

INSTALLATION INSTRUCTIONS

Environmental

Operating Temperature range: -40 to 150 °F (-40 to 65 °C)

Storage Temperature range: -40 to 150 °F (-40 to 65 °C)

Shipping Temperature range: -40 to 150 °F (-40 to 65 °C)

Temperature, C7250:

Temperature sensing range: 0 to 150 °F (18 to 65 °C)

Dimensions (See Fig. 1):

Height: 0.8 inches (20.5 mm)

Width: 2.17 inches (55 mm)

Length: 4.25 inches (108 mm)

Weight: 0.55 lb. (0.25 kg)

Listing Agency Approvals:

EN1000-6-5, EN1000-3-2, EN1000-3-3, EN1000-8-1;

EN60730-1 Annex H.23 (entensions)

Annex H.26 (immunity)

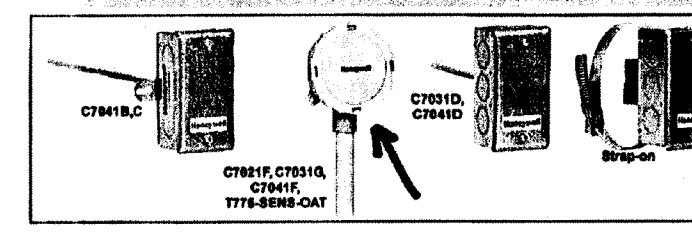
CE Mark FOR EU

Fig. 1. Dimensions in inches and (mm) showing mounting holes.



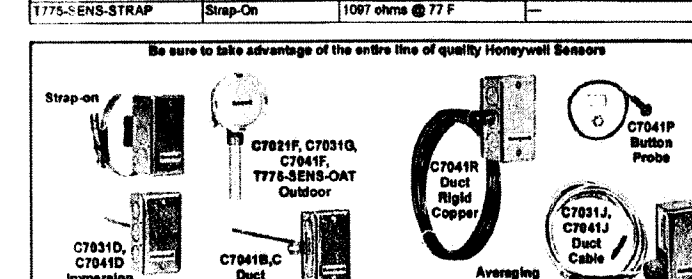
Honeywell C7021F; C7031G; C7041B,C,F,K; T775-SENS-OAT/STRAP Series 2000 Electronic Temperature Sensors

C7021F, C7031G, C7041F, T775-SENS-OAT OUTDOOR; STRAP-ON, C7041B, C DUCT; C7031D, C7041D IMMERSION



SENSOR APPLICATIONS

Model	Application	Output	Electrical Input Length
C7021F	Outdoor	10k ohm NTC @ 77 °F	5 ft. (152 mm)
C7031G	Immersion	10k ohm NTC @ 77 °F	5 ft. (152 mm)
C7041B	Outdoor	10k ohm NTC @ 77 °F	5 ft. (152 mm)
C7041C	Duct	20 k ohm NTC @ 77 °F	5 ft. (152 mm)
C7041D	Immersion	20 k ohm NTC @ 77 °F	5 ft. (152 mm)
C7041E	Outdoor	20 k ohm NTC @ 77 °F	5 ft. (152 mm)
C7041F	Outdoor	20 k ohm NTC @ 77 °F	5 ft. (152 mm)
T775-SENS-OAT	Outdoor	10k ohm NTC @ 77 °F	5 ft. (152 mm)
T775-SENS-STRAP	Strap-On	10k ohm NTC @ 77 °F	5 ft. (152 mm)



DEMAND CONTROL VENTILATION (DCV):

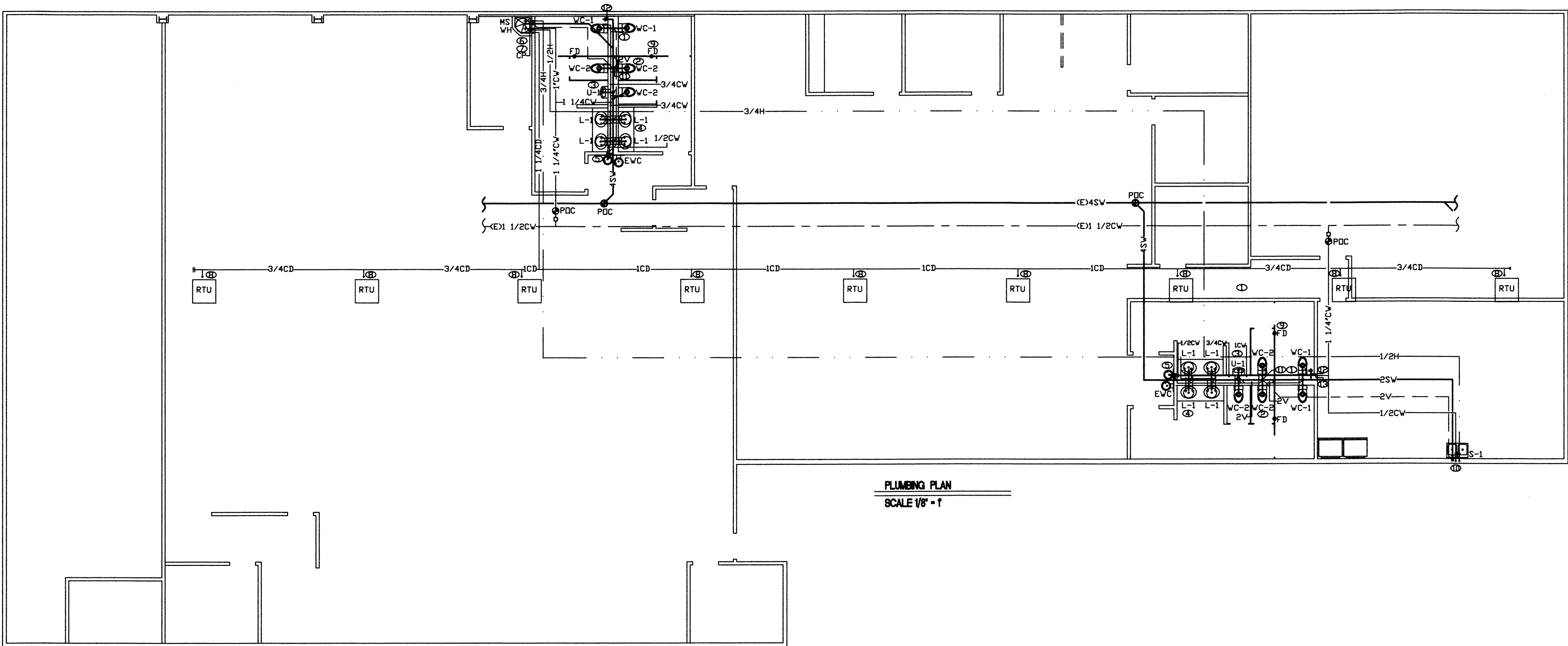
In order to obtain Demand Control Ventilation, in accordance with Southern Nevada Amendments to the 2012 IBC, a Honeywell "Jade" economizer module, Model # W7220 controller will be installed. Included with the economizer module is a wall mounted CO₂ sensor and controller (Model # C7232A) that is a stand-alone carbon dioxide sensor for use in determining ventilation necessity with HVAC controllers. Also required are a mixed air sensor (Model # C7250A) and an Outdoor temperature sensor (Model # C7041F). All these Honeywell devices except the wall mounted CO₂ sensor will be located inside the roof top unit.

The Jade controller will be wired directly into the existing economizer on the Carrier RTU-8. The fan for RTU-8 will be set to run continuously during occupancy. Once an increase in CO₂ is detected, the economizer will begin to open more than the minimum setting allowing up to 100% outside air or 3,400 CFM to enter the space which exceeds the 2,730 CFM required for the lobby area.

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NEW SHEET

		6886 POLARIS AVENUE LAS VEGAS, NEVADA 89118 TELEPHONE: 702-363-6222 FAX: 702-914-5808 MECHANICAL LIC. NO. 56241, ELECTRICAL LIC. NO. 60483	
PROJECT INFORMATION		DEMAND CONTROL VENTILATION (DCV) DEPARTMENT OF WELFARE AND SUPPORTIVE SERVICES 6880 N DECATUR BLVD., SUITES 100-140 NORTH LAS VEGAS, NV 89130	
REVISIONS:		THIS DRAWING IS THE EXCLUSIVE PROPERTY OF A-1 MECHANICAL AND WAS PREPARED FOR THE EXCLUSIVE USE OF A-1 MECHANICAL FOR THE SERVICES PERFORMED BY A-1 MECHANICAL. NO USE, REPRODUCTION OR DISSEMINATION OF THIS DRAWING, IN PART OR WHOLE MAY BE MADE WITHOUT WRITTEN PERMISSION OF A-1 MECHANICAL.	
GENERAL INFORMATION:	DATE:	NO.:	REVISIONS:
DRAFTER: EP	8/31/2015	1	ONLY REVIEW COMMENTS & 24/15
DESIGNER: JD	9/30/2015	2	ONLY COMMENTS 9/30/2015
OPS MANAGER: JD			
PROJECT MANAGER: JD			
DATE: 7/8/2015			
SCALE: NO SCALE			
SHEET: 6 OF 6			
JOB NO:			
M5.0			
JOB-SITE COPY			



PLUMBING PLAN
SCALE 1/8" = 1'

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	DESCRIPTION	CW	HW	W	V	Q	WATER F.U. EACH	TOTAL WATER FU	WASTE F.U. EACH	TOTAL WASTE F.U.	NOTES
WC-1	ADA WATER CLOSET	AM STD WHITE 215AA104 FLOOR MOUNT W/ TANK	1/2		3	2	4	2.5	10	4	16	INSTALL WITH OPEN FRONT SEAT
WC-2	WATER CLOSET	AM STD WHITE 215CA104 FLOOR MOUNT W/ TANK	1/2		3	2	6	2.5	15	4	24	INSTALL WITH OPEN FRONT SEAT
L-1	LAVATORY	AS WHITE 0476.028 W/ CFG 40719 FAUCET	1/2	1/2	2	2	8	1	8	1	8	INSTALL WITH THERMOSTATIC MIXING VALVE.
U-1	URINAL	AM STD WHITE 6550.001 WITH SLOAN 186-1 VALVE	3/4		3	2	2	20	40	4	4	INSTALL WITH HAMMER ARRESTER.
S-1	SINK	DAYTON K23322 S/S WITH MDEN 67425	1/2	1/2	2	2	1	1.5	1.5	2	4	INSTALL WITH GARBAGE DISPOSAL
MS	MOP SINK	FIAT MSB2424 WITH T&S FAUCET	1/2	1/2	2	2	1	3	3	3	3	
EWC	DRINKING FOUNTAIN	ELKAY EZS8L	1/2		2	2	2	.5	1	.5	1	
WH-1	WATER HEATER	A.D.SMITH ECS-40 40 GALLON	3/4	3/4			1					INSTALL WITH EXPANSION TANK WATTS DETS
CP	CIRCULATING PUMP	GRUNDFOS UP15-10BUC 5-TLC					1					INSTALL CHECK VALVE ON COLD WATER
FD	FLOOR DRAIN	JOSAM 30000-5A			2	2	4					INSTALL WITH SURE SEAL SS2009V

ALL FIXTURE SHALL COMPLY WITH CLARK COUNTY WATER CONSERVATION CODES

TOTAL FIXTURE UNITS 78.5

OVERALL DEVELOPED LENGTH- 199LF

WATER PIPING SIZED AS PER 2012 UPC TABLES 610.3 & 610.4 USING 46-60 PSI RANGE.

FIXTURE UNIT BRANCH SIZING

1/2" = 3

3/4" = 11

1" = 25

1 1/4" = 52

1 1/2" = 117

WATER HEATER SCHEDULE

SYMBOL	STORAGE CAPACITY	GPH RECOVERY @ 90*	TEMPERATURE RISE F*	ELECTRICAL KW	VOLTAGE	MANUFACTURER & MODEL NO.
WH-1	40 GAL	21	90	4.5	240/30	AD SMITH ECS-40

SPECIFICATIONS

1. DOMESTIC WATER PIPING: TYPE L COPPER
2. WASTE AND VENT PIPING: SCHEDULE 40 ABS/PVC
3. GAS PIPING: SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS
4. CONDENSATE DRAIN PIPING: TYPE M COPPER
5. PIPE INSULATION: INSULATE ALL HOT WATER PIPING WITH 1" THICK FIBERGLASS OR RUBBER
6. PIPE HANGERS: PIPE SIZES 1/2"-2" USES CARBON STEEL ADJUSTABLE SWIVLE SPLIT RING. PIPE SIZES 3"-4" USE CARBON STEEL CLEVIS

KEYNOTES

1. ALL DOMESTIC WATER PIPE SIZING HAS BEEN DONE USING UPC 2012 TABLES 610.3 & 610.4
2. ALL WASTE PIPE SIZING HAS BEEN DONE USING UPC 2012 TABLES 702.1 & 703.2
3. ALL VENT PIPING HAS BEEN SIZED USING UPC 2012 CHAPTER 9 INCLUDING SECTION 905
4. ALL GAS PIPING HAS BEEN SIZED USING UPC 2012 TABLE 1216(1)
5. ALL CONDENSATION DRAIN PIPING ARE NEW
6. CONDENSATION DRAIN PIPING SHALL TERMINATE AT APPROVED FIXTURE USING AIR GAP
7. T&P DRAIN SHALL TERMINATE AT AN APPROVED FIXTURE USING AIR GAP OR AT 6" AFF. O DAYLIGHT IN LANDSCAPE AREA
8. AFTER MARKET HEAT TRAPS SHALL BE INSTALLED ON ALL TANK STYLE WATER HEATERS
9. PROVIDE APPROVED PRESSURE REDUCING VALVE IF REQUIRED BY AUTHORITY HAVING JURISDICTION
10. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING WATER VALVES
11. PROVIDE CLEAN OUTS IN SANITARY, WASTE AND DRAIN LINES AS SHOWN AND AS REQUIRED BY LOCAL CODE. ALL CLEAN OUTS SHALL BE READILY ACCESSIBLE

NOTES

- ① 3" SEWER WASTE, 2" VENT AND 1/2" COLD WATER TO WC-1, TYP (4).
- ② 3" SEWER WASTE, 2" VENT AND 1/2" COLD WATER TO WC-2, TYP (6).
- ③ 2" SEWER WASTE, 2" WCD, 2" VENT AND 3/4" COLD WATER TO U-1, TYP (2).
- ④ 2" SEWER WASTE, 2" VENT AND 1/2" HOT AND COLD WATER TO L-1, TYP (8).
- ⑤ 2" SEWER WASTE, 2" VENT AND 1/2" COLD WATER TO EWC TYP (2).
- ⑥ 2" SEWER WASTE, 2" WCD, 2" VENT AND 1/2" HOT AND COLD WATER TO MS. ON SHELF ABOVE MS - 3/4" HOT AND COLD WATER DOWN TO WH.
- ⑦ 1 1/4" CONDENSATE DRAIN TO MS.
- ⑧ 3/4" CONDENSATE DRAIN UP THROUGH ROOF TO RTU.
- ⑨ 2" SEWER WASTE, 2" VENT TO FD. TYP (4).
- ⑩ 2" SEWER WASTE, 2" WCD, 2" VENT AND 1/2" COLD AND HOT WATER TO S-1.
- ⑪ 3" VENT UP FROM LAST VENT CONNECTION OF WC-1 UP THROUGH ROOF.
- ⑫ 4" WALL CLEAN OUT
- ⑬ 1 1/4" COLD WATER DROP IN WALL.

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CITY COMMENTS		8/25/15

No.	Description	Date.
	△ Revisions	

These plans are prepared and submitted by the contractor as an exemption to NRS 623.500 for work under contractor license category authorized under NRS 624.
U.S. Plumbing Inc.
Kenneth Champagne
Signet

U S PLUMBING INC
201 E. BROOKS AVE.
NORTH LAS VEGAS, NEVADA 89030
PHONE (702) 647-3552

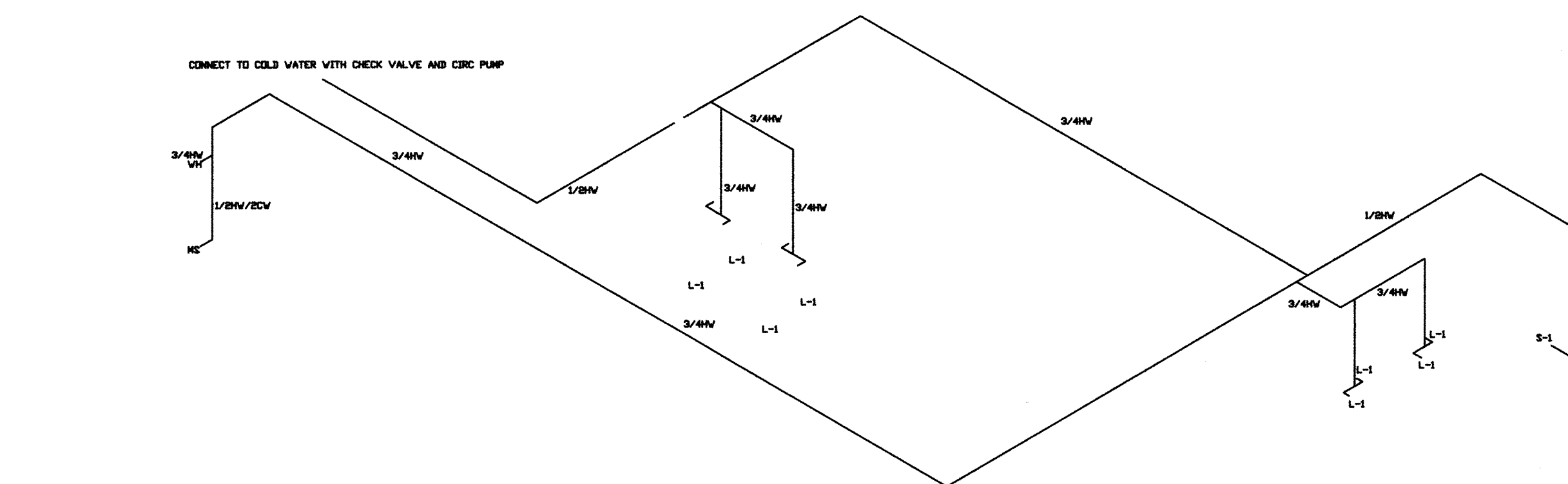
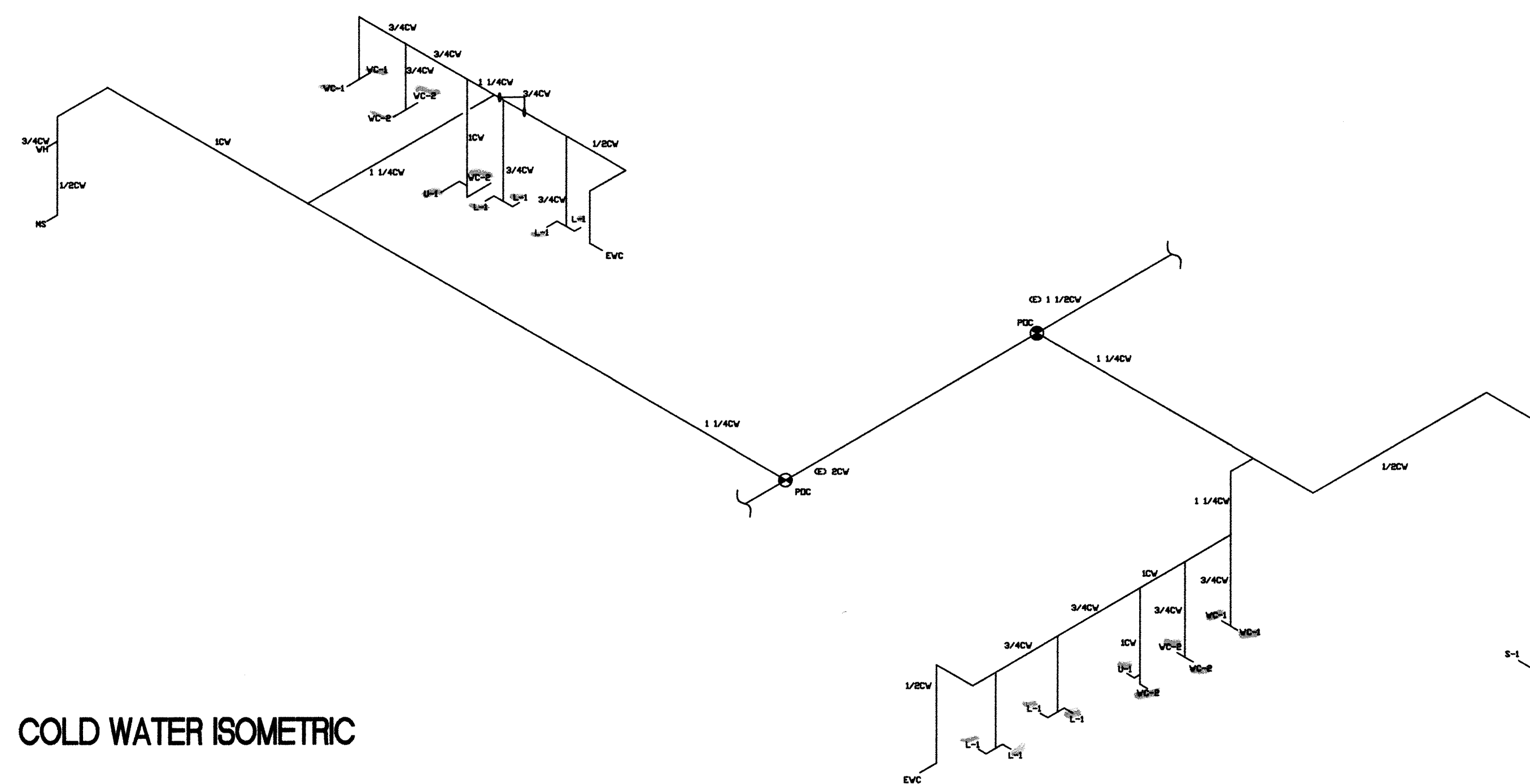
NV WELFARE T.I.
6390 N. DECATUR 100 - 140
N. LAS VEGAS, NV 89130

DATE: 7/10/15
DRAWN BY: L.H.

SHEET NO.

P-1

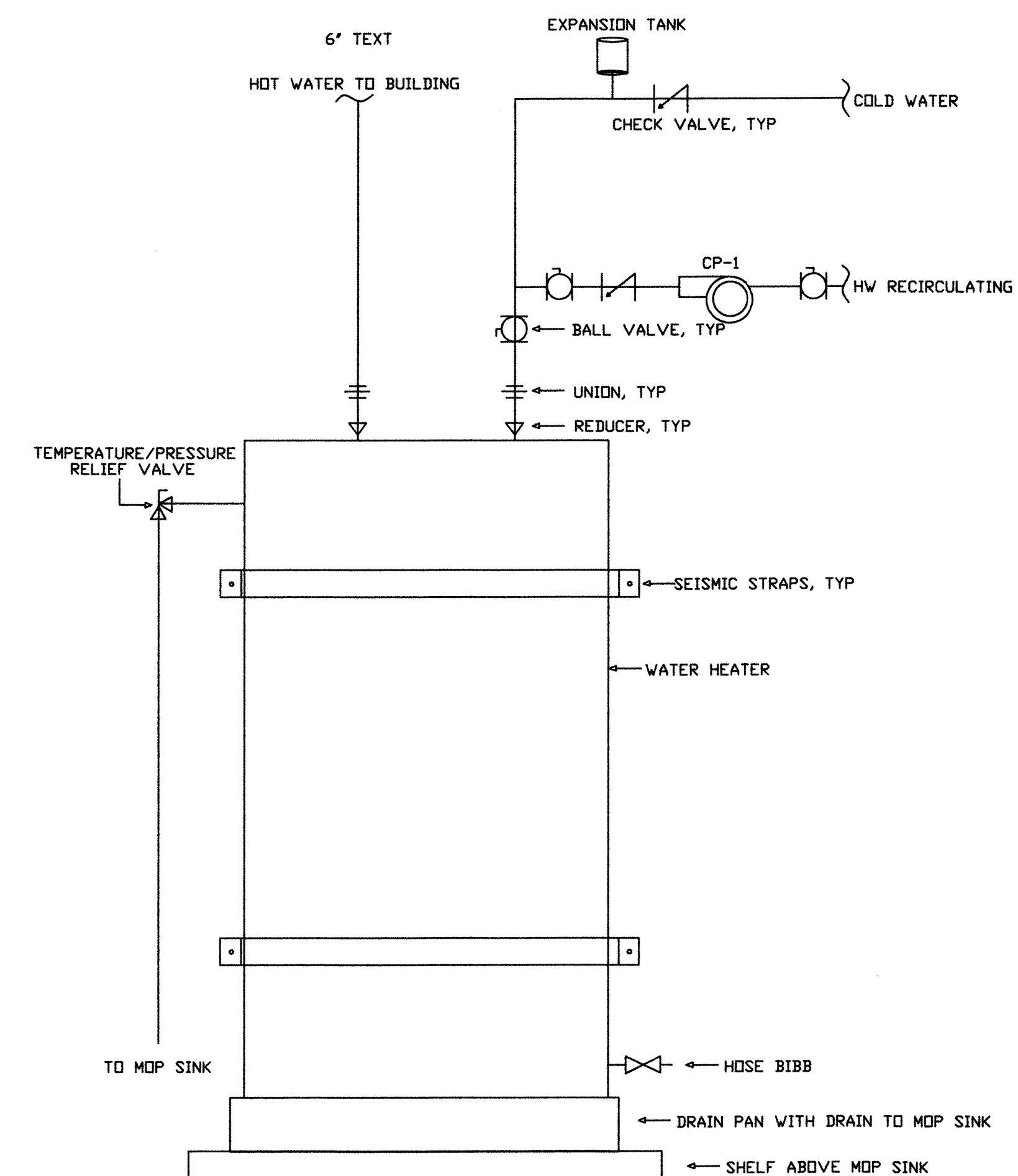
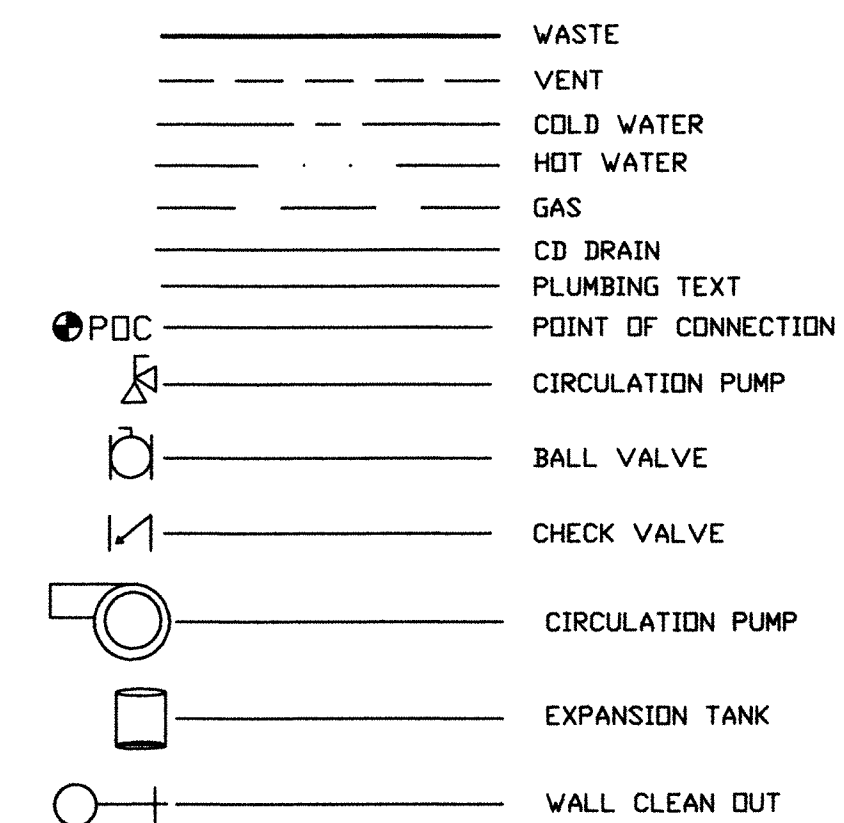
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HOT WATER ISOMETRIC

WC	10
UR	2
LAV	8

PLUMBING LEGEND



WATER HEATER PIPING DETAIL

ENTIRE PAGE

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These plans are prepared and submitted by the contractor
as an exemption to NFS 623.330 for work under contractor
license category authorized under NFS 624.

U.S. Plumbing Inc.
Kenneth Champagne

Service: 

U S PLUMBING INC

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PHONE (702) 647-3552

NV WELFARE T.I.
6390 N. DECATUR 100 - 140
N. LAS VEGAS, NV 89130

DATE: 7/10/15

SHEET NO.

P-2

JOB SITE COPY

PANEL: L1

DATE: 07/16/15 TIME: 12:51:25

JOB: DEPT. OF WELFARE

PANEL VOLTAGE: 208/120 3 Ø 4 W

BUS: 200A

WIRING: MLD

AIC RATING: 65,000

CIRCUIT CODE: blank or N : NON-CONTINUOUS

ENCLOSURE: NEMA1

MOUNTING: SURFACE

LOCATION: ELEC RM

R : DEMANDABLE RECEPTACLES

K : KITCHEN

NO. OF EQUIPMENT: 00

LINE NO	CIRCUIT CODE	TRIP	POLE	LOAD DESIGNATION			CONNECTED VA												LOAD DESIGNATION			TRIP	CIRCUIT CODE	POLE	CIRCUIT CODE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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PANEL: L2

DATE: 07/16/15 TIME: 11:51:27

JOB: DEPT. OF WELFARE

PANEL VOLTAGE: 208/120 3 Ø 4 W

BUS: 200A

WIRING: M-CB

AIC RATING: 65,000

CIRCUIT CODE: blank or N : NON-CONTINUOUS

ENCLOSURE: NEMA 1

MOUNTING: SURFACE

LOCATION: ELEC RM

NO. OF EQUIPMENT: 0

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PANEL: L3

DATE: 07/16/15 TIME: 12:54:23

JOB: DEPT. OF WELFARE

PANEL VOLTAGE: 208/120 3 φ 4 W

BUS: 000A

BATHING-MED

AIC RATING: 65,000

CIRCUIT CODE: blank or N : NON-CONTINUOUS

ENCLOSURE: NEMA1

MOUNTING: SURFACE

LOCATION: ELEC RM

NO. OF EQUIPMENT: 0

LINE

TRIP

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DESCRIPTION (NOTE)

M

R

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ΦA

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ΦC

ABC

ΦA

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DESCRIPTION (NOTE)

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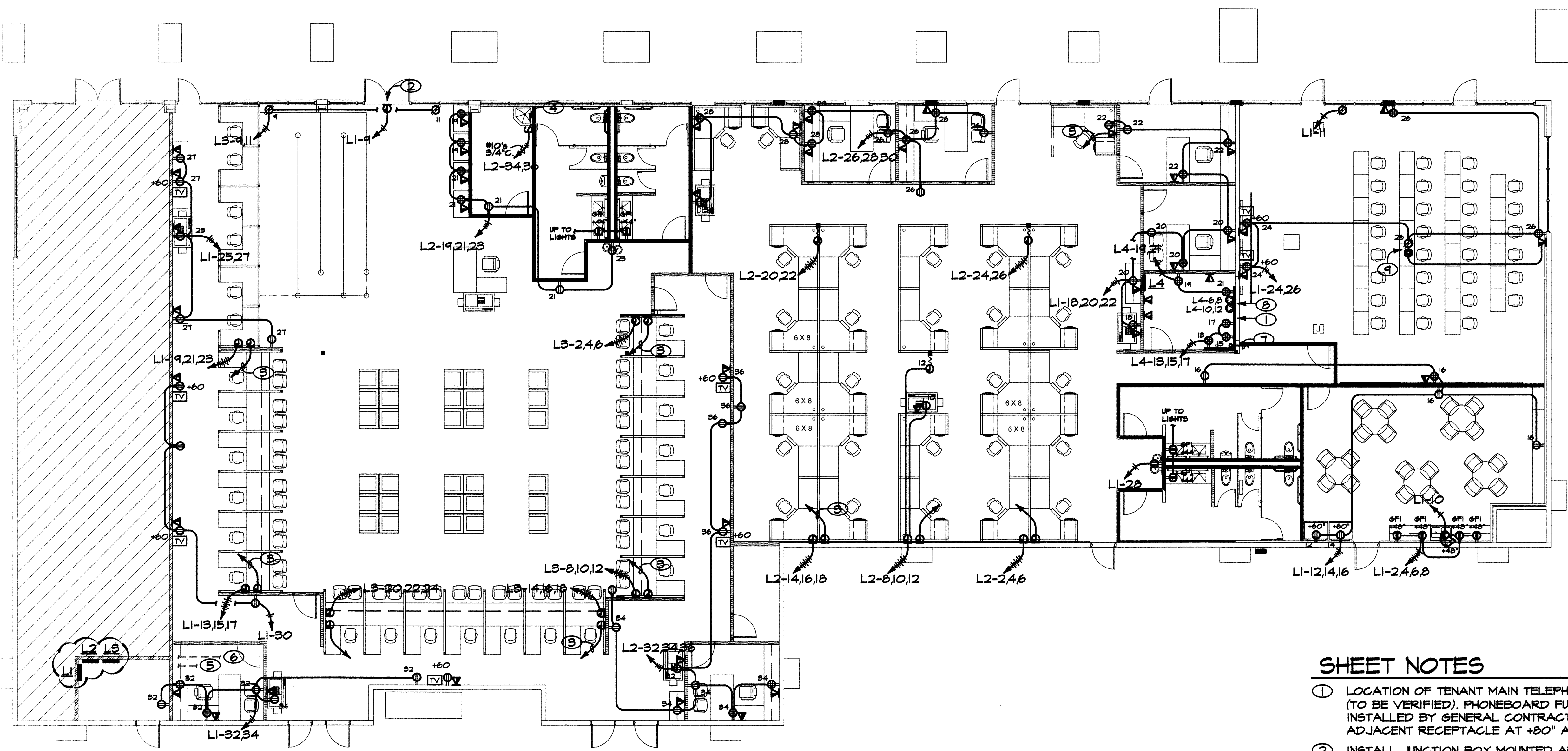
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LOAD DESIGNATION

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POWER PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

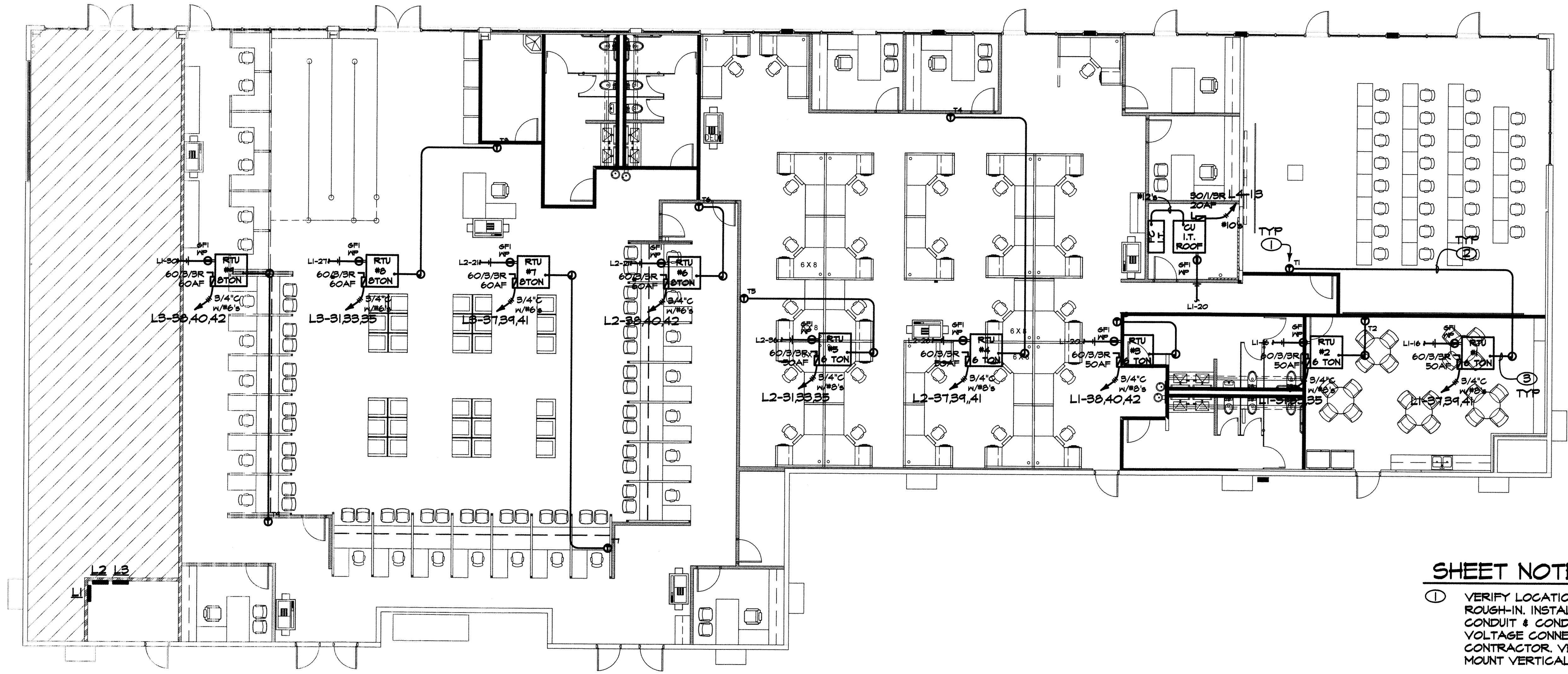
- ① LOCATION OF TENANT MAIN TELEPHONE TERMINAL BOARD (TO BE VERIFIED). PHONEBOARD FURNISHED & INSTALLED BY GENERAL CONTRACTOR. INSTALL ADJACENT RECEPTACLE AT +80" AFF.
- ② INSTALL JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING INSIDE TENANT SPACE FOR FUTURE SIGN.
- ③ VOICE/DATA OUTLET W/BLANK COVER AND TYPICAL 3/4" EMPTY CONDUIT W/PULL STRING TO 6" ABOVE CEILING PLATE LINE.
- ④ CONNECT STORAGE TYPE WATER HEATER, VERIFY LOCATION & REQUIREMENTS PRIOR TO ROUGH-IN.
- ⑤ APPROXIMATE LOCATION OF EXISTING 2-1/2" CONDUIT STUB INTO TENANT FOR POWER. EXTEND CONDUIT TO NEW TENANT PANEL BOARD LOCATION AS SHOWN.
- ⑥ APPROXIMATE LOCATION OF EXISTING 2" CONDUITS STUB INTO TENANT FOR PHONE AND CABLE. EXTEND CONDUIT TO NEW TENANT TELEPHONE BOARD LOCATION AS SHOWN.
- ⑦ NEW 2" CONDUIT STUB INTO I.T. ROOM FOR PHONE AND CABLE. EXTEND CONDUIT TO ⑥.
- ⑧ (1) 208 VOLT 20 AMP L6-20 TWIST LOCK RECEPTACLE AND (1) 208 VOLT 30 AMP L6-30 TWIST LOCK RECEPTACLE. VERIFY PLUG CONFIGURATION, PRIOR TO ROUGH-IN.
- ⑨ CEILING MOUNTED 120V RECEPTACLE AND 45 BOX W/ E.C. FOR LOW VOLTAGE.

GENERAL NOTES

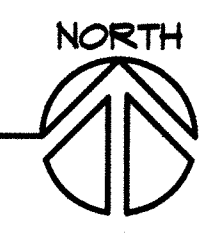
1. ALL ELECTRICAL DESIGN IS BASED OFF THE NEC 2011 CODE AND THE 2012 IECC.

CITY OF NORTH LAS VEGAS
BUILDING SAFETY
SEP 29 2015
Reviewed and Accepted
Edgar Suda

REVISION: 08-25-15 PLANS CHECK	
THESE PLANS ARE PREPARED AND SUBMITTED BY ADOBE ELECTRIC INC. CONTRACTOR'S LICENSE #2346-A, AS AN EXEMPTION TO NRS 623.330, CONTRACTORS' LICENSE #2346-A, AS AN EXEMPTION TO NRS 623.330, AUTHORIZED UNDER NRS 623.330, THESE PLANS AND DESIGN ARE THE PROPERTY OF, AND FOR THE SOLE USE OF ADOBE ELECTRIC INC. AND SHALL NOT BE REPRODUCED IN PART OR IN WHOLE, BY ANY MANNER, WITHOUT THE WRITTEN CONSENT OF ADOBE ELECTRIC INC.	
PLANS PREPARED BY: G.P. LOEFFLER MASTER ELECTRICIAN #0255 ADOBE ELECTRIC INC.	
ADOBE ELECTRIC, INC. 4360 W. Tompkins Ave., Suite C Las Vegas, Nevada, 89103 Phone No. (702) 362-5557 Fax No. (702) 362-2191	
DESIGN BUILD FOR: DEPT. OF WELFARE SUPPORTIVE SERVICES 6360 N. DECATUR BLVD. SUITES 100-140 84130 CITY OF N. LAS VEGAS	
SHEET TITLE: POWER PLAN	
SHEET NUMBER: M-3	
DATE: 07-13-15 JOB #1513E	



ELEC HVAC PLAN
SCALE: 1/8" = 1'-0"



SHEET NOTES

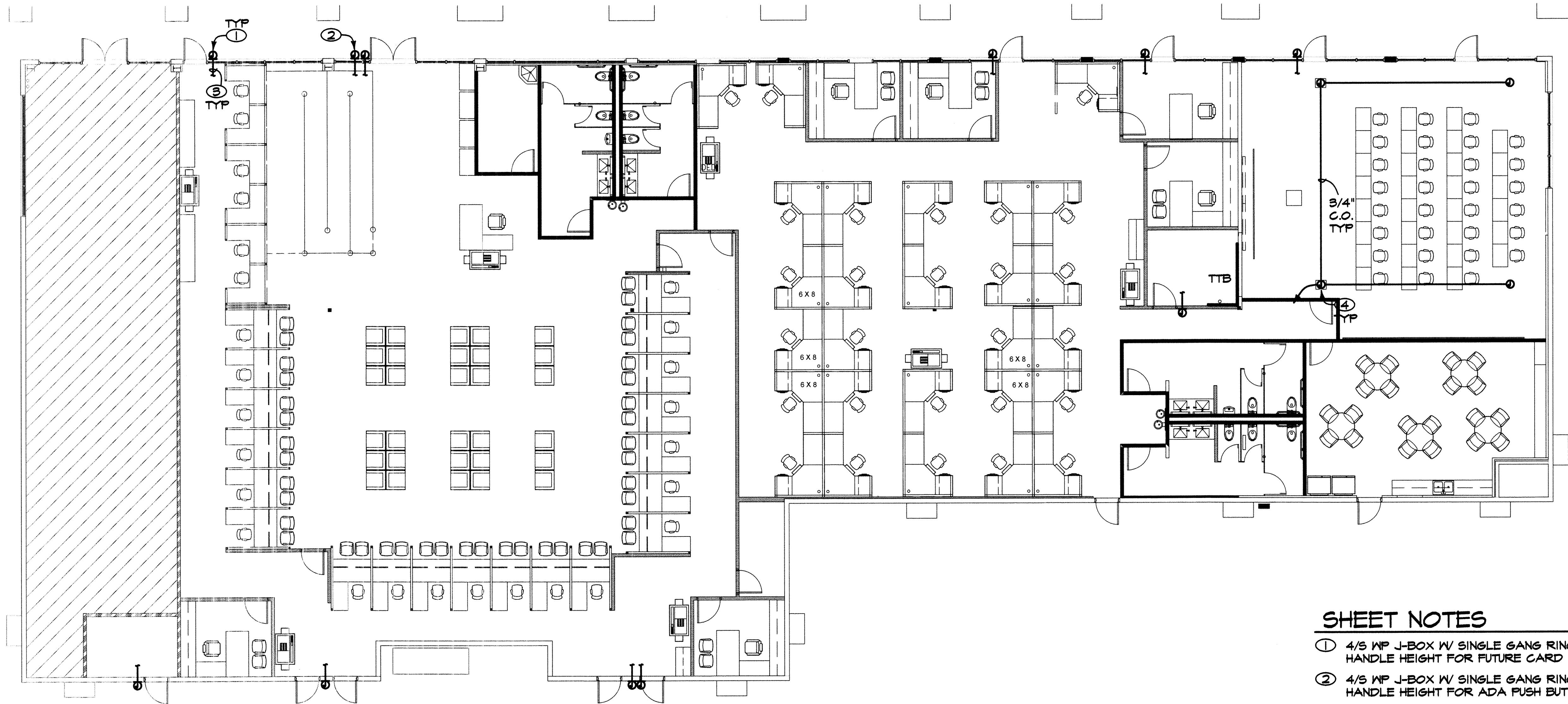
1. VERIFY LOCATION OF THERMOSTAT PRIOR TO ROUGH-IN. INSTALL OUTLET AT +54" AFF W/ CONDUIT & CONDUCTORS AS SHOWN. ALL LOW VOLTAGE CONNECTIONS BY MECHANICAL CONTRACTOR. VERIFY IF THERMOSTAT WILL MOUNT VERTICAL OR HORIZONTAL.
2. 1/2" C. W. B. - #18'S.
3. 1/2" C. W. 10 - #18'S.

GENERAL NOTES

1. ALL ELECTRICAL DESIGN IS BASED OFF THE NEC 2011 CODE AND THE 2012 IECC.

CITY OF NORTH LAS VEGAS
BUILDING SAFETY
SEP 29 2015
Reviewed and Accepted
Edgar Suria

REVISION: 08-25-15 PLANS CHECK	
THESE PLANS ARE PREPARED AND SUBMITTED BY ADOBE ELECTRIC INC. CONTRACTOR'S LICENSE #2346-A, AS AN EXEMPTION TO NRS 623.330, FOR WORK UNDER CONTRACTOR LICENSE CLASSIFICATION C-2, AS THE PROPERTY OF ADOBE ELECTRIC INC. AND FOR THE SALE OF ADOBE ELECTRIC INC. SHALL NOT BE REPRODUCED IN PART OR IN WHOLE, BY ANY MANNER, WITHOUT THE WRITTEN CONSENT OF ADOBE ELECTRIC INC.	
PLANS PREPARED BY: G.P. LOEFFLER MASTER ELECTRICIAN #0255 ADOBE ELECTRIC INC.	
ADOBE ELECTRIC, INC. 4360 W. Tompkins Ave., Suite C Las Vegas, Nevada, 89103 Phone No. (702) 362-5557 Fax No. (702) 362-2191	
DESIGN BUILD FOR: DEPT. OF WELFARE SUPPORTIVE SERVICES 6360 N. DECATUR BLVD. SUITES 100-140 89130 CITY OF N. LAS VEGAS	
SHEET TITLE: ELEC HVAC PLAN	
SHEET NUMBER: E-4	
DATE: 07-13-15	
JOB #1519E	



AUXILIARY CONDUIT PLAN

SCALE: 1/8" = 1'-0"



SHEET NOTES

- ① 4/8 WP J-BOX W/ SINGLE GANG RING MOUNTED AT DOOR HANDLE HEIGHT FOR FUTURE CARD READER.
- ② 4/8 WP J-BOX W/ SINGLE GANG RING MOUNTED AT DOOR HANDLE HEIGHT FOR ADA PUSH BUTTON.
- ③ 3/4" EMPTY CONDUIT FROM BOX STUBBED TO ACCESSIBLE CEILING 6" ABOVE PLATE.
- ④ CEILING MOUNTED 4S BOX FOR TENANT FURNISHED SPEAKERS AND MICROPHONES. 3/4" EMPTY CONDUIT FROM BOXES TO I.T. ROOM.

GENERAL NOTES

- I. ALL ELECTRICAL DESIGN IS BASED OFF THE NEC 2011 CODE AND THE 2012 IECC.

CITY OF NORTH LAS VEGAS
BUILDING SAFETY
SEP 29 2015
Reviewed and Accepted
Edgar Suria

REVISION: 09-25-15 PLANS CHECK	THESE PLANS ARE PREPARED AND SUBMITTED BY ADOBE ELECTRIC INC., CONTRACTOR'S LICENSE #23467-A, AS AN EXEMPTION TO LAS 622.330, CHAPTER 26, NRS 260.010, AND NRS 260.015. THESE PLANS AND DESIGNS ARE THE PROPERTY OF, AND FOR THE SOLE USE OF, ADOBE ELECTRIC INC., AND SHALL NOT BE REPRODUCED IN PART OR IN WHOLE, BY ANY MANNER, WITHOUT THE WRITTEN CONSENT OF ADOBE ELECTRIC INC.
ADOBE ELECTRIC, INC. 4360 W. Tompkins Ave., Suite C Las Vegas, Nevada, 89103 Phone No. (702) 362-5557 Fax No. (702) 362-2191	PLANS PREPARED BY: G.P. LOETZNER MASTER ELECTRICIAN #0255 ADOBE ELECTRIC INC.
DESIGN BUILD FOR: DEPT. OF WELFARE SUPPORTIVE SERVICES 6360 N. DECATUR BLVD. SUITES 100-140 89130 CITY OF N. LAS VEGAS	
SHEET TITLE: AUX. CONDUIT PLAN	
SHEET NUMBER: M-5	
DATE: 07-13-15	
JOB # 1513E	

COMcheck Software Version 4.0.1
Interior Lighting Compliance Certificate

Project Information
Energy Code: 2012 IECC
Project Title: Department of Welfare
Project Type: New Construction
Permit No. CNLV - #141373

Construction Site: 6390 N. Decatur Blvd.
Las Vegas, NV
Owner/Agent:
Designer/Contractor: Benny Cedillo
Adobe Electric
4360 W. Tompkins Ave.
Las Vegas, NV 89113
702-362-5557
benny@adobelectric.com

Additional Efficiency Package

On-site renewable energy:

Allowed Interior Lighting Power

A Area Category	B Floor Area (F2)	C Allowed Watts / F2	D Allowed Watts (B X C)
1-TRAINING (Common Space Types: Classroom / Lecture / Training)	1415	1.30	1840
2-BREAK ROOM (Common Space Types: Bar/lounge/leisure dining)	656	1.39	918
3-BATHROOMS (Common Space Types: Restroom)	892	1	892
4-ELECT./T./MECH ROOM (Common Space Types: Electrical/mechanical)	345	1.10	380
5-OFFICES (Common Space Types: Office - Enclosed)	897	1.10	987
6-OPEN OFFICE (Common Space Types: Office - Open plan)	5287	1	5287
7-LOBBY (Common Space Types: Lobby)	2724	1.10	2996
Total Allowed Watts = 13300			

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-TRAINING (Common Space Types: Classroom / Lecture / Training) Linear Fluorescent 1: AAE: 2X4 TROFFER: 48" T8 32W: Electronic:	3	20	76	1520
2-BREAK ROOM (Common Space Types: Bar/lounge/leisure dining) Linear Fluorescent 1: AAE: 2X4 TROFFER: 48" T8 32W: Electronic:	3	8	76	608
3-BATHROOMS (Common Space Types: Restroom) Compact Fluorescent 1: C: CE: RECESS DOWN CFL: Triple 4-pin 32W: Electronic: LED 1: D: LED TAPE LIGHT: Other:	1	27	32	864
4-ELECT./T./MECH ROOM (Common Space Types: Electrical/mechanical) Linear Fluorescent 3: B: 1X4 SURFACE WRAP: 48" T8 32W: Electronic:	2	7	64	448
5-OFFICES (Common Space Types: Office - Enclosed) Linear Fluorescent: AAE: 2X4 TROFFER: 48" T8 32W: Electronic:	3	12	76	912
6-OPEN OFFICE (Common Space Types: Office - Open plan)				

Project Title: Department of Welfare
Data filename: N:\ACAD\Projects\Adobe Electric\2015\1513 - Nevada Welfare\Elec\IECC\AREA METHOD.cck
Report date: 08/26/15
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A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Linear Fluorescent: AAE: 2X4 TROFFER: 48" T8 32W: Electronic:	3	44	76	3344
7-LOBBY (Common Space Types: Lobby) Linear Fluorescent: AAE: 2X4 TROFFER: 48" T8 32W: Electronic:	3	70	76	5320
Total Proposed Watts =				13084

Interior Lighting PASSES: Design 2% 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.

Name - Title Signature Date

Project Title: Department of Welfare
Data filename: N:\ACAD\Projects\Adobe Electric\2015\1513 - Nevada Welfare\Elec\IECC\AREA METHOD.cck
Report date: 08/26/15
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COMcheck Software Version 4.0.1
Inspection Checklist

Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

2012 IECC	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR4) ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C406 (PR9) ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Department of Welfare
Data filename: N:\ACAD\Projects\Adobe Electric\2015\1513 - Nevada Welfare\Elec\IECC\AREA METHOD.cck
Report date: 08/26/15
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2012 IECC	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 (EL12) ²	Automatic controls to shut off all building lighting installed in all buildings.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Lighting controlled by occupancy sensors.
C405.2.1 (EL23) ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C405.2.1 (EL15) ²	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Areas that are controlled by an occupancy sensor.
C405.2.2 (EL16) ²	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C405.2.3 (EL17) ²	Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.2.2 (EL18) ²	Occupancy sensors installed in required spaces.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Automatic-on controls are allowed in corridors, stairways, restrooms, primary building entrance areas and lobbies, and areas where manual-on controls could impact safety or security.
C405.2.2 (EL20) ¹	Primary sidelighted areas are equipped with required lighting controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.2.2 (EL21) ¹	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.2.3 (EL4) ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C405.3 (EL19) ³	Fluorescent luminaires with odd numbered lamp configurations that are with 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Electronic high-frequency ballasts.
C405.4 (EL6) ¹	Exit signs do not exceed 5 watts per face.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.2.3 (EL8) ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Department of Welfare
Data filename: N:\ACAD\Projects\Adobe Electric\2015\1513 - Nevada Welfare\Elec\IECC\AREA METHOD.cck
Report date: 08/26/15
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GENERAL NOTES

1. ALL ELECTRICAL DESIGN IS BASED OFF THE NEC 2011 CODE AND THE 2012 IECC.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Department of Welfare
Data filename: N:\ACAD\Projects\Adobe Electric\2015\1513 - Nevada Welfare\Elec\IECC\AREA METHOD.cck
Report date: 08/26/15
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1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Department of Welfare
Data filename: N:\ACAD\Projects\Adobe Electric\2015\1513 - Nevada Welfare\Elec\IECC\AREA METHOD.cck
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Project Title: Department of Welfare
Data filename: N:\ACAD\Projects\Adobe Electric\2015\1513 - Nevada Welfare\Elec\IECC\AREA METHOD.cck
Report date: 08/26/15
Page 7 of 7

CITY OF NORTH LAS VEGAS
BUILDINGS SAFETY
SEP 29 2015
Reviewed and Accepted
Edgar Sutila

REVISION:
08-25-15
PLANS CHECK

THESE PLANS ARE PREPARED AND SUBMITTED BY ADOBE ELECTRIC INC., CONTRACTOR'S LICENSE #12345-A, AS AN EXEMPTION TO NRS 623.330, FOR WORK UNDER CONTRACTOR LICENSE CLASSIFICATION C-2 AS AUTHORIZED UNDER NRS 624.045. THESE PLANS AND DESIGN ARE THE PROPERTY OF ADOBE ELECTRIC INC. AND SHALL NOT BE REPRODUCED IN PART OR IN WHOLE BY ANY MANNER WITHOUT THE WRITTEN CONSENT OF ADOBE ELECTRIC INC.
PLANS PREPARED BY:
G.P. LOETLER
MASTER ELECTRICIAN #0255
ADOBE ELECTRIC INC.

ADOBE ELECTRIC, INC.
4360 W. Tompkins Ave., Suite C
Las Vegas, Nevada, 89103
Phone No. (702) 362-5557
Fax No. (702) 362-2191

DESIGN BUILD FOR:
DEPT. OF WELFARE
SUPPORTIVE SERVICES
6360 N. DECATUR BLVD.
SUITES 100-140 89130
CITY OF N. LAS VEGAS

SHEET TITLE: IECC CALCS

SHEET NUMBER:

M-6

DATE: 07-13-15
JOB # 1513E

JOB SITE COPY