Sparks Municipal Court
Restroom, Office, and Lobby Renovation

1450 C Street
Sparks, Nevada 89431

City of Sparks
431 Prater Way
Sparks, NV 89432

Bid # 14/15-015
PWP # WA-2015-117

February 26, 2015

Bid Documents

John A. Martini, P.E., City Engineer — Date

Heidi Shaw, Court Administrator — Date

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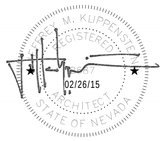
Professional Seal



	Date	Revision

Consultant

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Restroom, Office, and Lobby Renovation

1450 C Street
Sparks, Nevada 89431

Title Sheet

February 26, 2015
H+K Project No: 1406

G001

Abbreviations

&	And
@	At
(e)	Existing
⊥	Perpendicular
#	Pound or Number

A

Adj.	Adjustable
Aggr.	Aggregate
Alt.	Alternate
Alum.	Aluminum
Approx.	Approximately
Arch.	Architectural/Architect
A.C.	Asphalt Concrete

B

Bm.	Beam
Blk.	Block
Blkg.	Blocking
Bd.	Board
B.O.	Bottom of
Bldg.	Building
B.U.R.	Built up Roofing

C

C.I.	Cast Iron
C.B.	Catch Basin
Clg.	Ceiling
Ctr.	Center
C.L.	Center Line
Cer.	Ceramic
C.O.	Cleanout
C.W.	Cold Water
Col.	Column
Conc.	Concrete
Conn.	Connection
Const.	Construction
C.J.	Construction Joint
Contin.	Continuous
Contr.	Contractor
Cu. Ft.	Cubic Foot

D

D.G.	Decomposed Granite
Dept.	Department
Det.	Detail
Dia.	Diameter
Diff.	Diffuser
Dim.	Dimension
Dbl.	Double
DN	Down
D.S.	Downspout
Dwg.	Drawing
D.F.	Drinking Fountain

E

Ea.	Each
Etc.	Etcetera
E.W.C.	Electric Water Cooler
Elec.	Electrical
Elev.	Elevation
Emer.	Emergency
Encl.	Enclosure
Eq.	Equal
Equip.	Equipment
Exh.	Exhaust
Exp.	Expansion
E.J.	Expansion Joint
Ext.	Exterior

F

F.O.	Face of
Fin.	Finish
F.G.	Finish Grade
F.E.	Fire Extinguisher
F.E.C.	Fire Extinguisher Cabinet
Fprf.	Fireproof(ing)
Fxt.	Fixture
Flash.	Flashing
Flr.	Floor
F.D.	Floor Drain
F.L.	Flow Line
Ft.	Foot
Ftg.	Footing
Fdn.	Foundation
FBO	Furnished by Others
Furr.	Furring
Fut.	Future

G

Galv.	Galvanized
G.I.	Galvanized Iron
Ga.	Gage
Gen.	General
Gl.	Glass
GLB	Glue-Laminated Beam
Gyp.	Gypsum

H

Ht.	Height
H.C.	Hollow Core
H.M.	Hollow Metal
Horiz.	Horizontal
H.B.	Hose Bibb
H.W.	Hot Water
Hr.	Hour

I

In.	Inch(es)
I.D.	Inside Diameter
Insul.	Insulation
Int.	Interior

J

Jt.	Joint

L

Lab	Laboratory
Lav.	Lavatory
Lt.	Light

M

Mfr.	Manufacturer
M.O.	Masonry Opening
Max.	Maximum
Mech.	Mechanical
Memb.	Membrane
Met.	Metal
Min.	Minimum
Misc.	Miscellaneous
MPH	Miles per hour
Mtd.	Mounted

N

Nom.	Nominal
N.I.C.	Not in Contract
N.T.S.	Not to Scale
No.	Number

O

O.C.	On Center
O.D.	Outside Diameter
O.H.	Opposite Hand

P

Pr.	Pair
P. Lam.	Plastic Laminate
Pl.	Plate
Plywd.	Plywood
Pt.	Point
Prefab.	Prefabricated
Prop.	Property
PSF	Pounds per square foot
PSI	Pounds per square inch

R

Rad.	Radius
Ref.	Reference
Reinf.	Reinforced
Req.	Required
R.A.	Return Air
Rev.	Revision
R.O.W.	Right of Way
R.D.	Roof Drain
Rm.	Room
R.O.	Rough Opening

S

Sched.	Schedule
Sect.	Section
Sht.	Sheet
Sim.	Similar
S.C.	Solid Core
Spec.	Specification
Sq.	Square
SF	Square foot
St. Stl.	Stainless Steel
Std.	Standard
Stl.	Steel
Stg.	Storage
Struct.	Structural
Susp.	Suspended
Sym.	Symmetrical

T

Tel.	Telephone
T.V.	Television
T.&G.	Tongue and Groove
T.C.	Top of Curb (or Concrete)
T.O.	Top of

U

U.N.O.	Unless Noted Otherwise

V

Vert.	Vertical
V.C.T.	Vinyl Composition Tile

W

W.C.	Water Closet
Wt.	Weight
W.F.	Wide Flange
Wdw.	Window
W/	With
W/O	Without
Wd.	Wood
W.J.	Weakened Plane Joint

Y

Yd.	Yard

General Notes

1. These general notes pertain to work described on all contract documents.
2. The contract documents consist of the owner-contractor agreement, the conditions of the contract (general, supplementary and other conditions), the drawings, the specifications, and all addenda issued prior to and all modifications issued after execution of the contract.
3. The work comprises the completed construction required by the contract documents and includes all labor necessary to produce such construction, and all materials and equipment incorporated or to be incorporated in such construction.
4. Shop drawings, product data and samples are not a part of the contract documents. The Architect will review them, but only for conformance with the design concept of the work and with the information given in the contract documents. The Contractor shall not be relieved of responsibility for any deviation from the requirements of the contract documents by the Architect's review of shop drawings, product data or samples.
5. The Contractor shall carefully study and compare the contract documents and shall at once report to the Architect any error, inconsistency or omission he may discover. The Contractor shall perform no portion of the work at any time without contract documents or, where required, approved shop drawings, product data or samples for such portion of the work.
6. All work is to conform with the contract documents. Drawings are NOT to be scaled for information. If unable to locate dimensions for any item of work, consult with the Architect before proceeding with construction.
7. In the event certain features of the construction are not fully shown on the contract documents, then their construction shall be of the same character as for similar conditions that are shown or called for and shall be reviewed by the Architect.
8. All work shall be performed within strict conformance to the minimum standards of the current edition of the adopted building codes of the authority having jurisdiction and all applicable national, state, and local laws, regulations, and ordinances.
9. The Contractor shall be responsible for the general safety during construction, and all work shall conform to pertinentsafety regulations.
10. The Contractor shall coordinate locations of any and all mechanical, telephone, electrical, lighting and plumbing including all piping, ductwork and conduit. Coordinate all required clearances for installation and maintenance of the above equipment.
11. The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
12. The Contractor shall be responsible for the acts and omissions of his employees, subcontractors, and their agents and employees, and other persons performing any work under a contract with the Contractor.
13. The Contractor shall pursue work in a continuous and diligent manner to ensure a timely completion of the project.
14. The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery, and surplus materials.
15. The Contractor shall be responsible for the location and/or protection of all existing and proposed piping, utilities, structures, adjacent streets and improvements during the period of construction.
16. Unless otherwise provided in the contract documents, the Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.
17. Where conflicts occur, coordinate the layout and exact location of all partitions, doors, telephones, and electrical/communication outlets and switches with Architect in the field before proceeding with construction.
18. Where conflict is encountered between the contract documents that will materially affect the quality or extent of the work, such conflict shall be resolved to the satisfaction of the Architect before the affected items and/or material are purchased, fabricated and/or installed.
19. Where pre-manufactured or prefabricated items and/or materials are to be installed - the Contractor shall verify rough or finished dimensions in the field prior to purchase or fabrication.
20. The Contractor shall guarantee all work and materials to be free from defects for a minimum of one year from date of final acceptance, and promptly remedy such defects and any subsequent damage caused by the defects or repair thereof, at no expense to the owner. Guarantee periods of greater than one year may be required and contained within the contract documents.
21. Where any item and/or material is indicated in the contract documents, and not necessarily detailed in each specific case, but is required for a complete and professional installation - such item and/or material shall provided as if shown and detailed in full. Provide means to furnish and install.
22. Contractor is requested to visit the site as part of the pre-bid site visit to compare the drawings and specifications with any work in place, and inform himself of all conditions, including the work, if any, being performed. Failure to visit the site will in no way relieve the Contractor from necessity of furnishing any materials or performing any work in accordance with the drawings and specifications that may be required to complete the work without additional cost to the owner.
23. Existing conditions including material sizes, configurations, and locations as shown on the drawings may not be an exact illustration of existing as-built conditions. The Contractor shall include in his bid the cost of furnishing, installing, modifying, existing and/or new materials (minor in nature) required for a complete and professional installation that may be required by minor variations between existing conditions as shown, and actual as-built conditions.

Project Team

Owner:

City of Sparks Public Works
PO Box 857
Sparks, Nevada 89432
353-2212
353-1635 (Fax)
Contact: Ross Soderstrom, P.E.

Using Agency:

Sparks Municipal Court
1450 C Street
Sparks, NV 89431

Architect:

H+K Architects
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511
332-6640
332-6642 (Fax)
Contact: Phil O'Keefe, AIA

Electrical Engineer:

JP Engineering, LLC
10597 Double R Blvd, Suite 1
Reno, Nevada 89521-8909
852-2337
852-9455 (Fax)
Contact: Mark Tatro

Mechanical Engineer:

Ainsworth Associates Mechanical Engineers
1420 Holcomb Avenue, Suite 201
Reno, Nevada 89502
329-9100
329-9105 (Fax)
Contact: Roger Gravelle

Design Criteria

Applicable Codes:

Building Code:	2012 International Building Codes (IBC)
Mechanical Code:	2012 Uniform Mechanical Code (UMC)
Plumbing Code:	2012 Uniform Plumbing Code (UPC)
Electrical Code:	2011 National Electrical Code (NEC)
Fire Code:	2012 International Fire Code, Vol. 1 (IFC)
Accessibility Codes:	2010 Americans with Disabilities Act, Accessibility Guidelines and 2007 ICC/ANSI 117.1
Energy Code:	2012 International Energy Conservation Code

Floor Area:

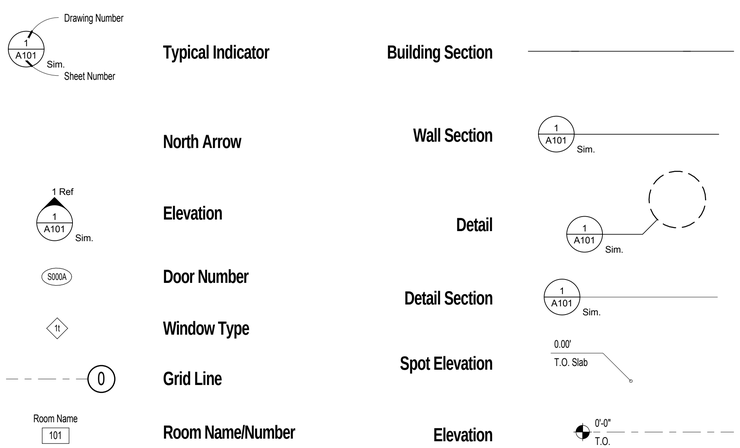
First Floor:	9,910 SF
Total:	9,910 SF
Occupancy Group:	Group A-3, Courtrooms Group B, Remainder of building
Type of Construction:	Type II-B
Required Area and/or Occupancy Separations:	1-Hour between B & A
Fire Sprinkler Requirements:	Yes
Alarm Systems:	Yes
No. Stories:	1
Maximum Height:	55'
Actual Height:	37'

Insulation Requirements:

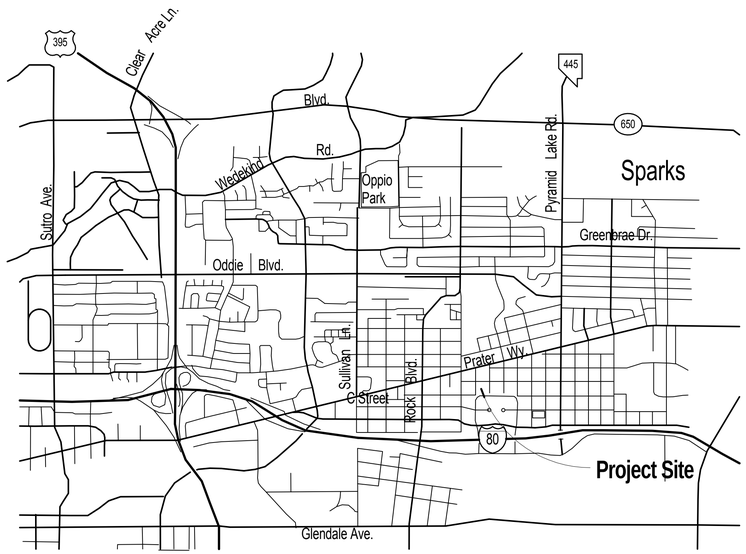
Roof:	R-34
Walls:	R-16
Floor:	R-7

Sheet Index

Symbols



Vicinity Map



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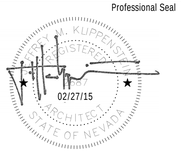

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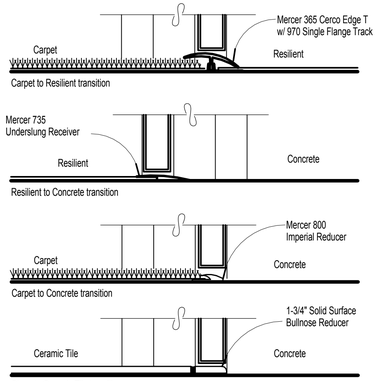
Project Data

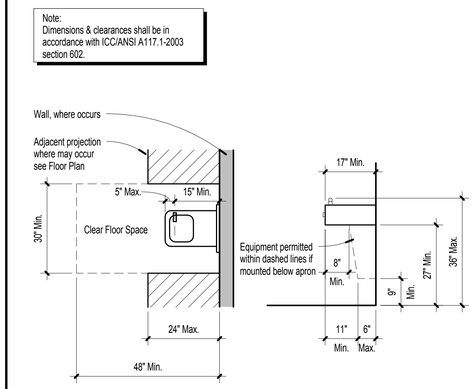
February 26, 2015
H+K Project No: 1406

G101



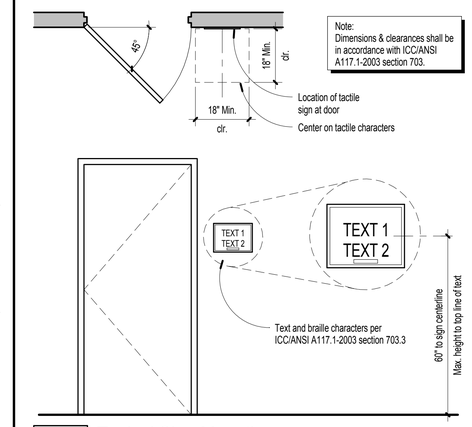
9 Flooring Transitions at Doors

3" = 1'-0"



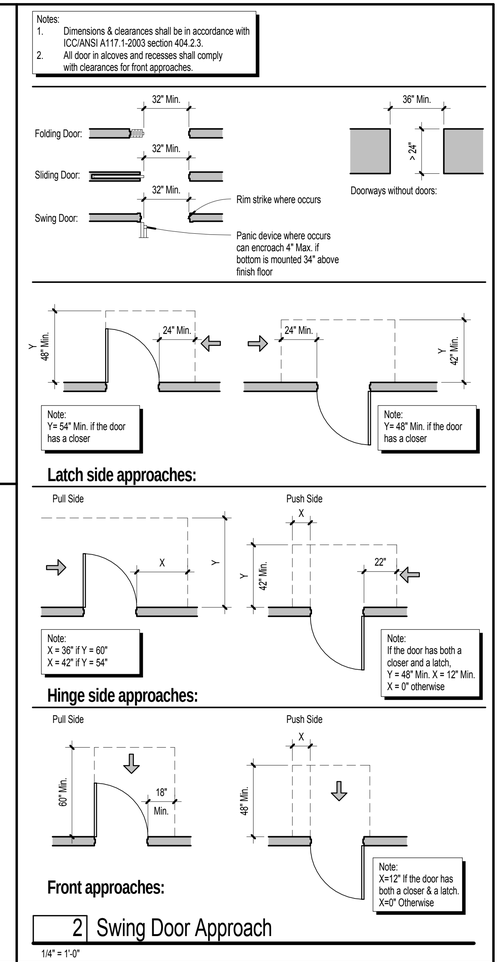
7 Accessible Drinking Fountain

1/2" = 1'-0"



4 Typical Sign Mounting

1/2" = 1'-0"

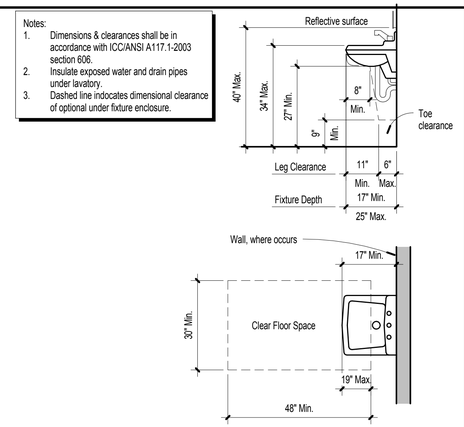


2 Swing Door Approach

1/4" = 1'-0"

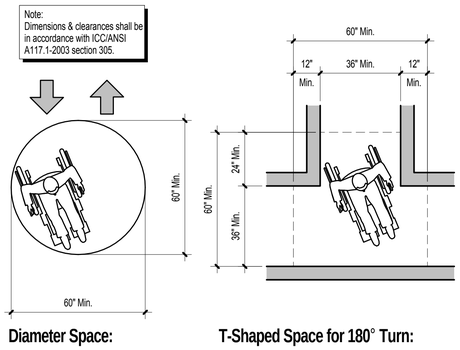
8 Typical Accessible Toilet Accessory Mounting Heights

1/2" = 1'-0"



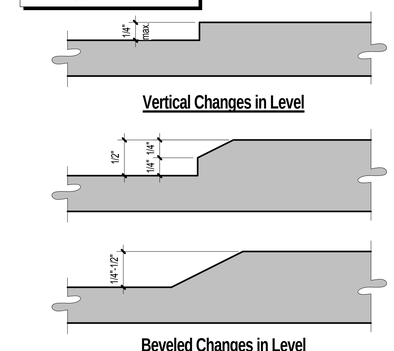
6 Clearances at Lavatories and Sinks

1/2" = 1'-0"



3 Wheelchair Turning Radius

3/8" = 1'-0"



1 Changes in Level

12" = 1'-0"

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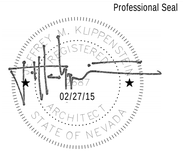

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Accessibilty Diagrams

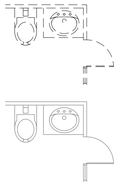
February 26, 2015
H+K Project No: 1406

G201

Demolition Notes

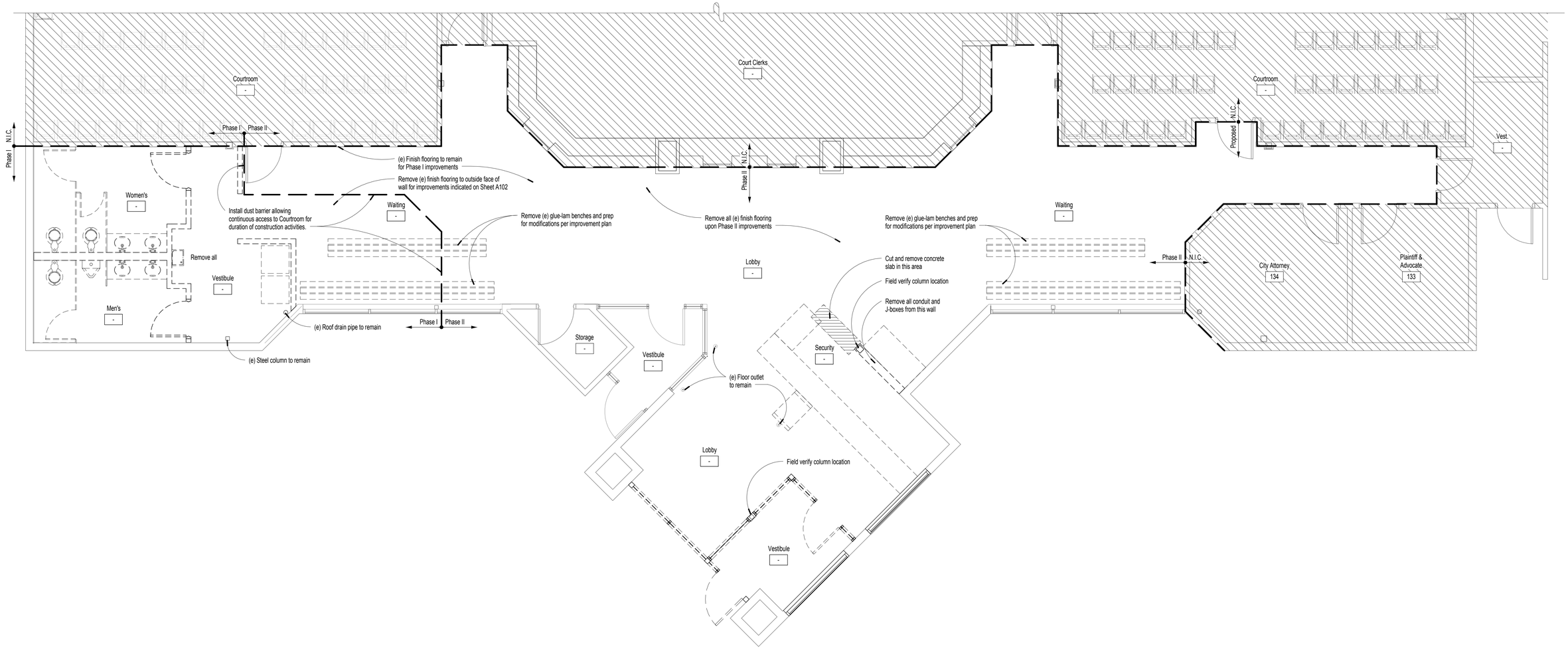
1. For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition and alterations to utilities. Notify the Architect of any components which vary from those shown on the drawings.
2. In the event that demolition work creates a condition where existing spaces are open to the weather, the Contractor shall protect the building from the effects of exposure from exterior conditions. These conditions shall be weather-tight at the conclusion of his work each night. At the conclusion of his work in that area the Contractor is to replace all removed components to a weather-tight condition to match adjacent finishes.
3. There will be selective demolition for Structural, Electrical and Mechanical components. This demolition is to facilitate the replacement and/or new installation of Structural, Electrical and Mechanical components. Although this demolition may not appear specifically on this sheet, the Contractor shall include in his bid all demolition work for the removal of required building materials necessary for the installation of these components.
4. See Selective Demolition, Cutting and Patching sections in Project Manual for additional demolition requirements.
5. Protect adjacent surfaces to remain from damage. Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent existing surfaces.
6. Refer to Ceiling Demolition Plan for extent of ceiling demolition.
7. All dimensions are taken from Record Drawings. Dimensions must be field verified prior to the start of work.
8. Revise mechanical and fire sprinkler systems as required. Contractor to field verify extent of work required.
9. Existing fire sprinkler heads shall remain in place within ceilings shown to be removed and reinstalled. Remove (e) escutcheon plate and store for reinstallation after ceiling has been replaced. Contractor will take required measures to protect all sprinkler components during construction. Any damaged sprinkler components shall be replaced at no additional cost to the Owner.
10. Definitions:
    - Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
    - Remove and salvage: Detach items from existing construction and deliver them to the Owner. All removed ceiling panels, plumbing fixtures, and light fixtures are to be removed and salvaged.
    - Remove and reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
    - Existing to remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and savaged, or removed and reinstalled.

Demolition Legend



Walls, windows, doors, fixtures, etc. are to be removed and scrapped unless noted otherwise (U.N.O.).

Existing construction, equipment and fixtures to remain.



1 Overall Demolition Floor Plan

1/4" = 1'-0"

North

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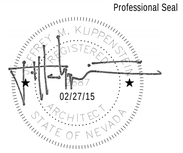

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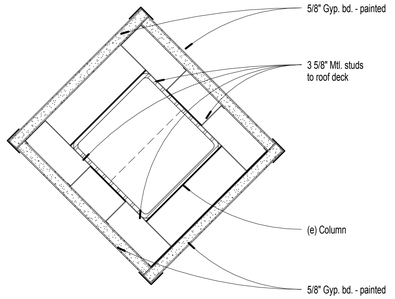
Overall Demolition Floor Plan

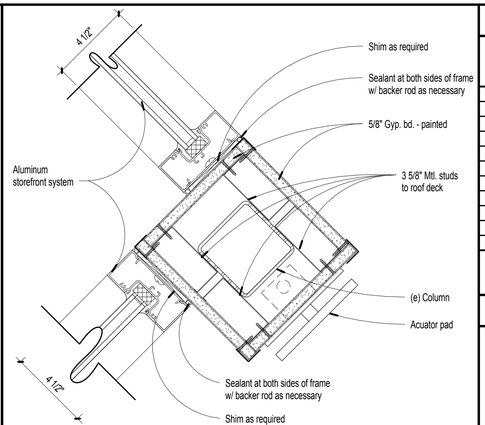
February 26, 2015
H+K Project No: 1406

A101



3 Furred Column Detail @ Security 101A

3" = 1'-0"



2 Furred Column Detail @ Staging 101

3" = 1'-0"

Finish Schedule

No.	Room Name	Floor	Base	Walls				Ceiling	Remarks
				North	East	South	West		
100	Vestibule	F2	B1	W1	W1	W1	W1	C1	
101	Staging	F2	B1	W1	W1	W1	W1	C1	
102	Lobby	F2	B1	W1	W1	W1	W1	C1/C2	
102A	Waiting	F2	B1	W1	W1	W1	W1	C1/C2	
102B	Waiting	F2	B1	W1	W1	W1	W1	C1/C2	
103	Corridor	F2	B1	W1	W1	W1	W1	C1/C2	
104	Defense Attorney	F2	B1	W1	W1	W1	W1	C2	
105	Corridor	F1	B2	W1	W1	W1	W1	C1	
106	Women's	F1	B2	W2	W2	W2	W2	C1	
107	Men's	F1	B2	W2	W2	W2	W2	C1	
108	Corridor	F2	B1	W1	W1/W2	W1/W2	W1	C1	

Material Legend

Floor Materials:

F1 Tile
F2 Carpet

Base Materials:

B1 4" Rubber Base
B2 Ceramic Tile

Wall Materials:

W1 Gypsum Board - Painted
W2 Painted Gypsum Board w/ Ceramic Tile Wainscot

Ceiling Materials:

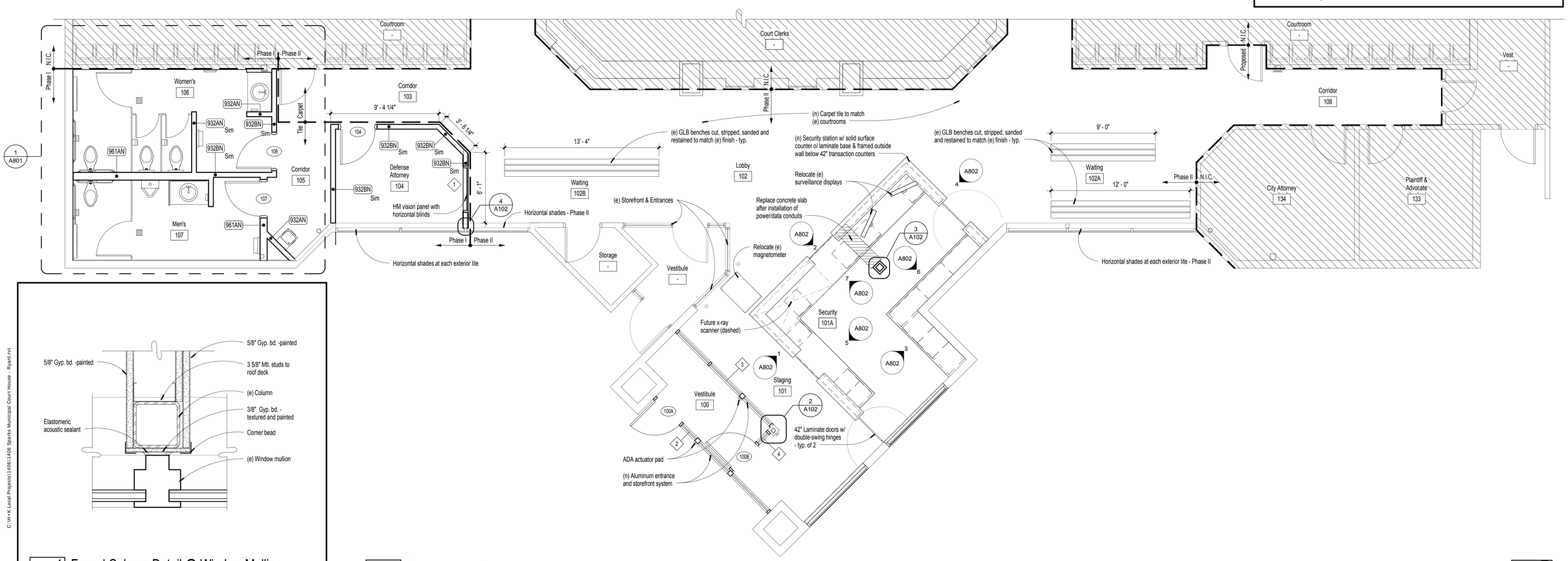
C1 Gypsum Board - Painted
C2 Acoustic Ceiling Panels

Wall Legend

- Existing masonry wall w/ plaster finish at interior side
- Existing interior metal stud wall
- Interior metal stud wall - see Wall Types
- Low parition wall

Sheet Notes

1. All door locations in gypsum board partitions not dimensioned will be 3" from the studs of perpendicular wall to door edge (U.N.O.).
2. All dimensions are from face-of-stud, face of CMU, or center of framed opening, unless noted otherwise.
4. Provide 6" wide, 16 gauge flat strap blocking behind all fixtures and wall mounted accessories. This includes cabinets and any other items that are wall mounted. Blocking shall span a minimum of three studs and be connected to each stud with a minimum of two screws.
6. Refer to Electrical plans for equipment related to that discipline. All required equipment not necessarily noted on this sheet.
7. Room Signage:
   Provide signs adjacent to doors at Women's 106, Men's 107, and Defense Attorney 104. Signs will be ADA compliant and the text will be that indicated on the Room Signage Schedule. All room signage shall coordinate with this facility's existing signage system.
8. Openings, pockets, etc. shall not be placed in slabs, beams, columns, walls, etc., unless specifically detailed on the drawings.
9. Provide a rubber-vinyl reducer or transition trim at all intersections of carpet and resilient tile, carpet and vinyl sheet goods, or at all edges of carpet that abut a raised or lowered surface of dissimilar material. Note: Provide replacement transitions or reducers only where removal of existing flooring is not required for transition of reducer trim replacement.
10. There should be no surface mounted conduit. All conduit to be concealed.
11. Sand, grind, or patch (e) concrete floor as required to accommodate new construction. Install leveling compound as required.
12. Where new gypsum board walls abut existing CMU or concrete walls, scribe to fit tightly and caulk.
13. Repair and repaint the entire wall where alteration work is performed, U.N.O. Paint color to match (e) walls and areas adjacent.
14. All touch up and new painting will be as follows:
    Bottom coat: Latex primer
    Intermediate coat and top coat: Acrylic Latex Enamel
    Sheen shall match existing adjacent surfaces.
    Contractor to coordinate paint manufacturer with Owner to match (e) maintenance paint stock.
15. Texture all existing gypsum board walls to match texture of new walls where noted.
16. Provide 45 degree miter for all tile at outside corners.



1 Overall Floor Plan

1/4" = 1'-0"

4 Furred Column Detail @ Window Mullion

3" = 1'-0"

North

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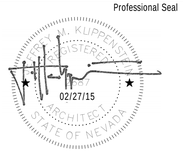
Professional Seal



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Sparks Municipal Court
Restroom, Office, and Lobby Renovation

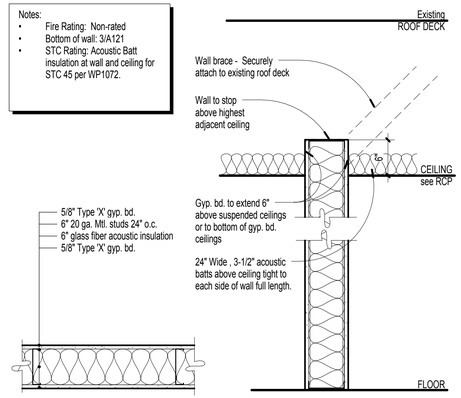
1450 C Street
Sparks, Nevada 89431

Enlarged Floor Plan

February 26, 2015
H+K Project No: 1406

A102

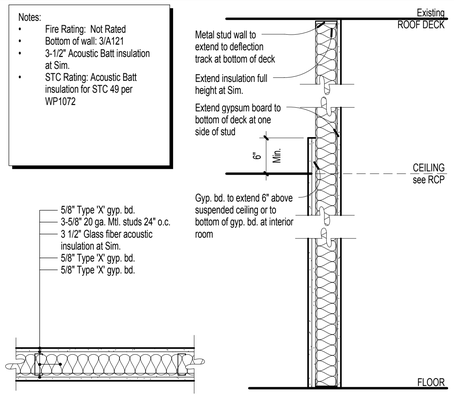
Notes:
- Fire Rating: Non-rated
- Bottom of wall: 3/A121
- STC Rating: Acoustic Batt insulation at wall and ceiling for STC 45 per WP1072.



Plan Section

961AN Interior Metal Stud Wall

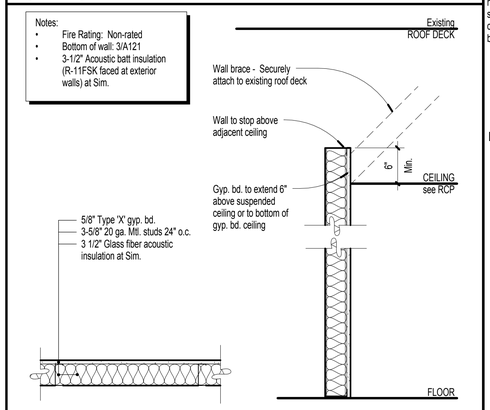
Notes:
- Fire Rating: Not Rated
- Bottom of wall: 3/A121
- 3-1/2" Acoustic Batt insulation at Sim.
- STC Rating: Acoustic Batt insulation for STC 49 per WP1072



Plan Section

932BN Interior Metal Stud Wall

Notes:
- Fire Rating: Non-rated
- Bottom of wall: 3/A121
- 3-1/2" Acoustic batt insulation (R-11FSK faced at exterior walls) at Sim.

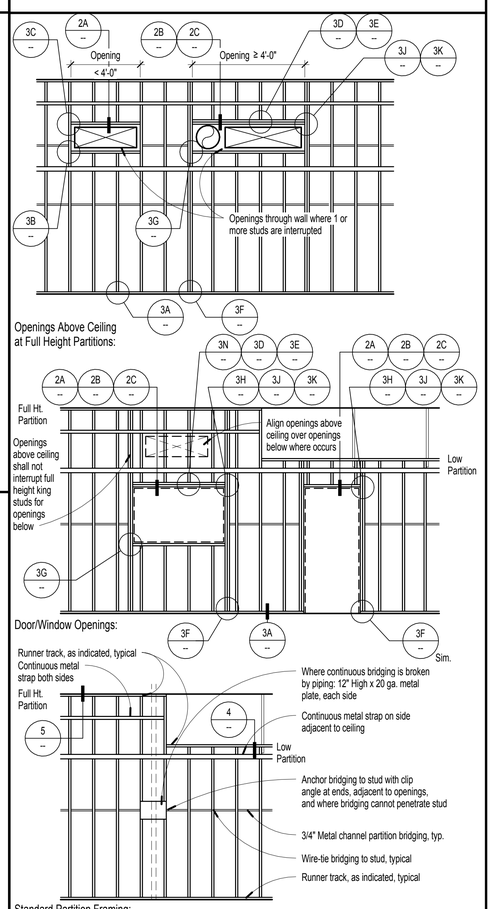


Plan Section

932AN Interior Metal Stud Wall-Finish One Side

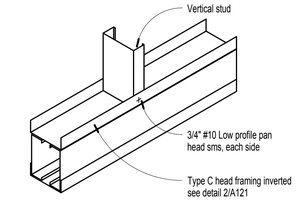
Metal Stud Framing Notes

1. The purpose of this sheet is to describe typical metal stud framing connections, but is not intended to show specific detail conditions. Other drawings in the Construction Document set show specific conditions and may have additional requirements to those outlined on this sheet. Details on this sheet are shown to illustrate typical conditions and may thus not all occur within the set. This information should be applied to all applicable locations throughout the entire set of Construction Documents.
2. See Wall Types for metal stud type used, and Floor Plans for locations of those wall types.
3. Type of runner track utilized shall match type of stud size and gauge as indicated for each Wall Type.
4. Suspended metal stud framing occurs where:
   - Framing at head of opening cannot span between floor supported studs at each end due to interruption by structural member.
   - At locations isolated within ceilings where no adjacent floor supported framing occurs (see Reflected Ceiling Plans).
   - Length of span at head of opening is greater than 12'-0".
5. Use of powder driven fasteners:
   - For applications shown on this sheet, powder driven fasteners shall be 0.145" min. shank diameter by 1-1/4" min. length with 5/16" min. steel washer unless larger fastener is noted.
   - For applications shown by the details on this sheet, powder driven fasteners shall only be utilized for attachment to concrete.
   - Powder driven fasteners may only be used where the depth of concrete exceeds three times the penetration depth of the fastener and there is at least 1-1/2" of concrete cover measured laterally in all directions from fastener. where adequate concrete does not occur, use #10 sheet metal screws to attach to metal decking.

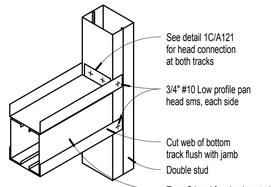


4 Typical Framing Elevations

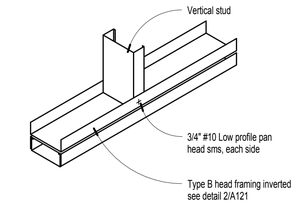
1/4" = 1'-0"



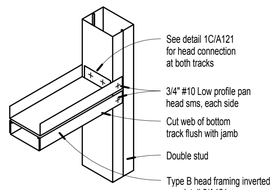
(E) Stud Above at Head Type C



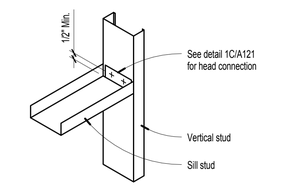
(K) Double Stud Jamb at Head Type C



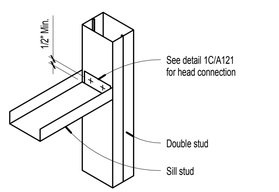
(D) Stud Above at Head Type B



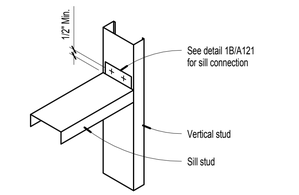
(J) Double Stud Jamb at Head Type B



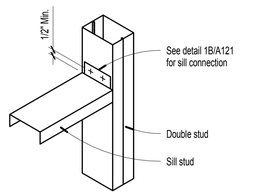
(C) Jamb at Head Type A



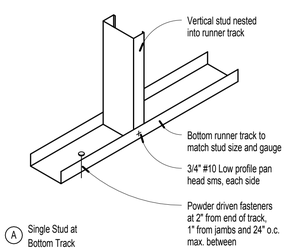
(H) Double Stud Jamb at Head Type A



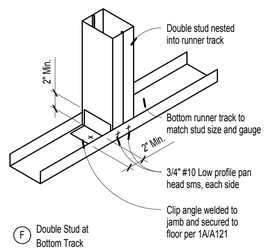
(B) Jamb at Sill



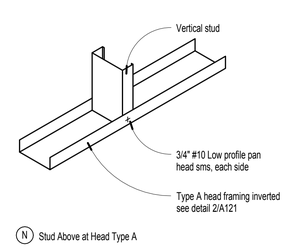
(G) Double Stud Jamb at Sill



(A) Single Stud at Bottom Track



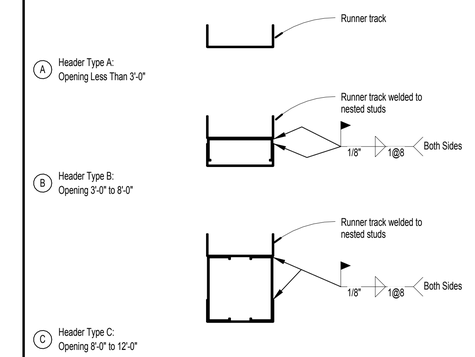
(F) Double Stud at Bottom Track



(N) Stud Above at Head Type A

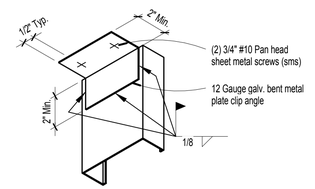
3 Typical Metal Stud Partition Framing

1" = 1'-0"

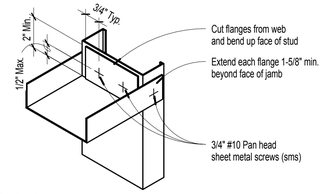


2 Metal Stud Head Types

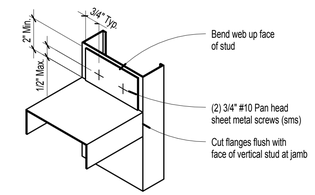
3" = 1'-0"



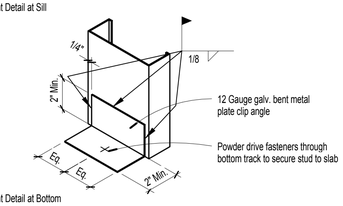
(D) Attachment Detail at Top



(C) Attachment Detail at Head



(B) Attachment Detail at Sill



(A) Attachment Detail at Bottom

1 Metal Stud Jamb Connection at Openings

1" = 1'-0"

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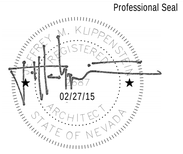

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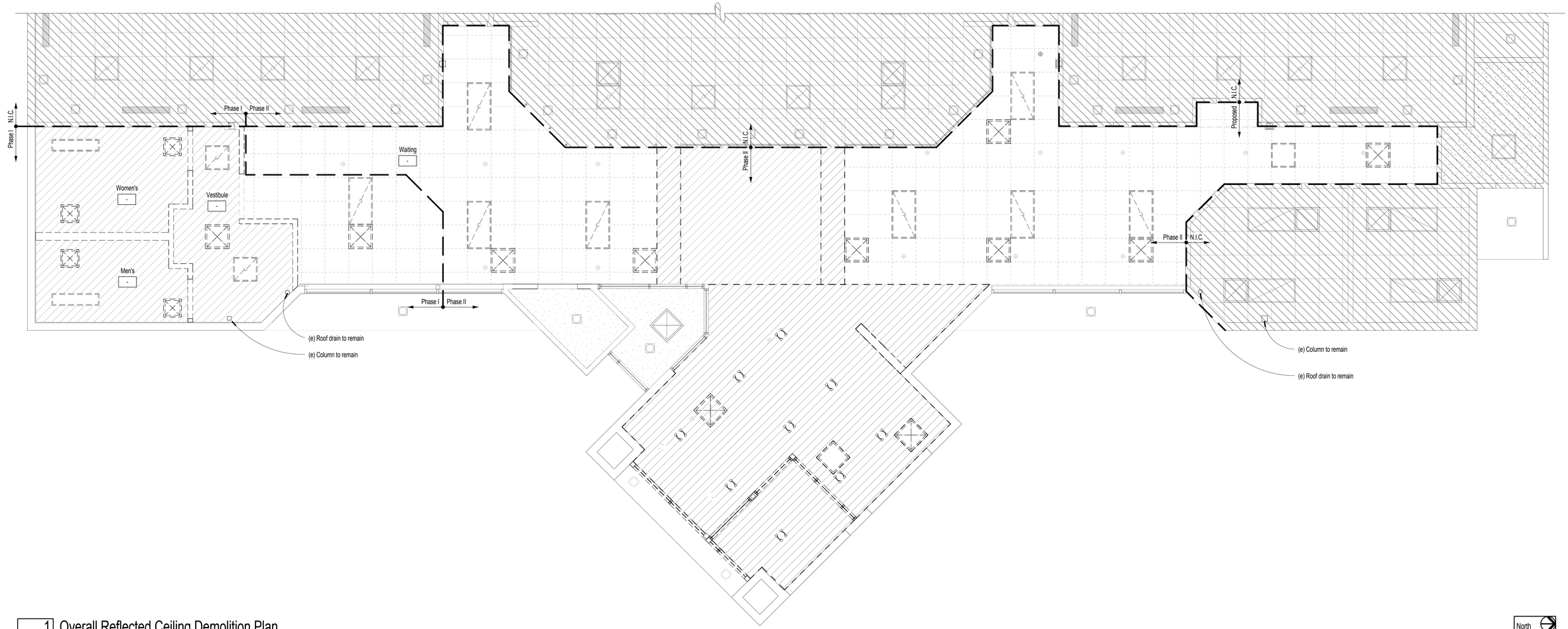
Typical Framing Details and Wall Types

February 26, 2015
H+K Project No: 1406

A121

Ceiling Demolition Legend

- (e) Ceiling system and finishes to remain
- (e) Gypsum board soffit and soffit framing to be removed
- (e) 2' x 2' Acoustical Lay-in Ceiling System and suspended Grid to be removed
- (e) 2x4 Fluorescent light fixture - see Electrical for additional notes and requirements
- (e) 2x2 Fluorescent light fixture - see Electrical for additional notes and requirements
- (e) Recessed can light fixture - see Electrical for additional notes and requirements
- (e) 4' Linear Pendent Fluorescent light fixture - see Electrical for additional notes and requirements
- (e) supply air diffuser in gyp. bd. soffit to be removed
- (e) Return air diffuser to be removed
- (e) Fire sprinkler head, remove and salvage escytcheon and relocate as required for new ceiling condition.
- B (e) Bugeye camera, remove and salvage for reinstalltion see Electrical drawings
- C (e) Ceiling mounted camera



1 Overall Reflected Ceiling Demolition Plan

1/4" = 1'-0"

North

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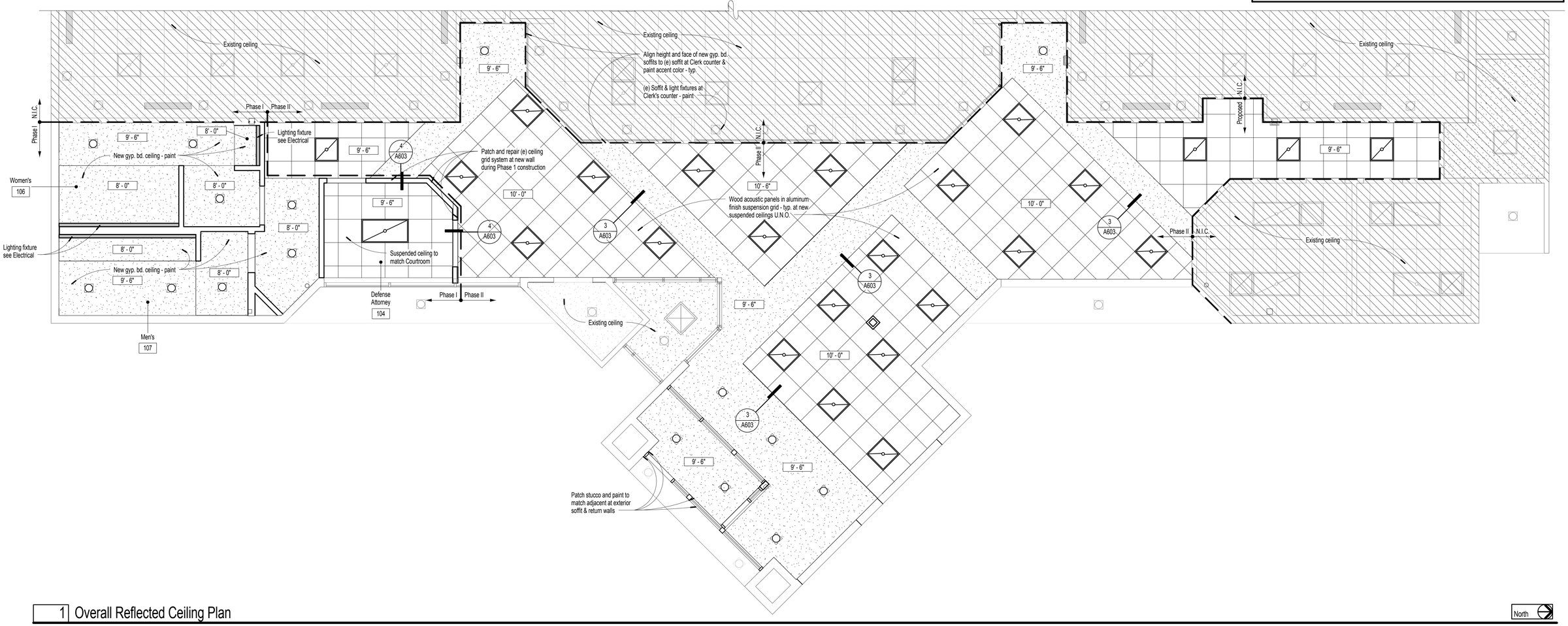
Enlarged Demolition
Reflected Ceiling Plan

February 26, 2015
H+K Project No: 1406

A601

Ceiling Legend

- (e) Ceiling system and finishes to remain. Touch up and repair at ceilings affected by Alteration construction.
- Gypsum board ceiling, see Specifications for requirements.
- 2' x 2' Acoustical Lay-in Ceiling System, Armstrong Cirrus Profiles Classic Step 15/16 Tegular or approved equal. Grid and tile layout as indicated on the Reflected Ceiling Plan. See Specifications for requirements of suspended grid and acoustic lay-in panels and see Finish Schedule for ceiling types. In rooms larger then 144 SF see detail 3/A601 for seismic bracing detail.
- 0' - 0" — Indicates the ceiling height, see Plan. Ceiling height above finish floor.
- 2x4 Fluorescent light fixture - see Electrical for size and type
- 2x2 Fluorescent light fixture - see Electrical for size and type
- Recessed can light fixture - see Electrical for size and type
- 4' Linear Pendent Fluorescent light fixture - see Electrical for size and type
- (n) Speaker location. Speakers within ceiling tiles shall be at the center of the tile
- (n) Fire sprinkler head location. Fire sprinkler heads within ceiling tiles shall be at the center of the tile.
- B — (n) Bugeye camera location. See Electrical drawings.
- C — (n) Ceiling mounted camera
- 4" x 54" Linear diffuser - see Mechanical



1 Overall Reflected Ceiling Plan

1/4" = 1'-0"

North

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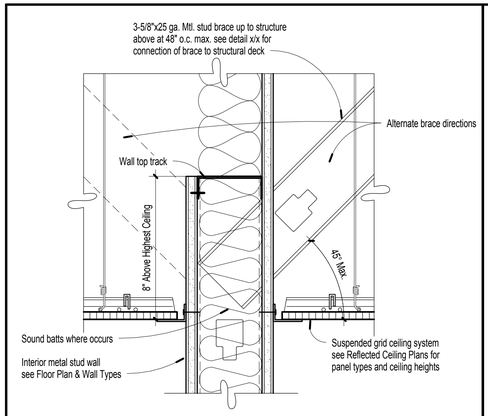
Enlarged Reflected Ceiling Plan

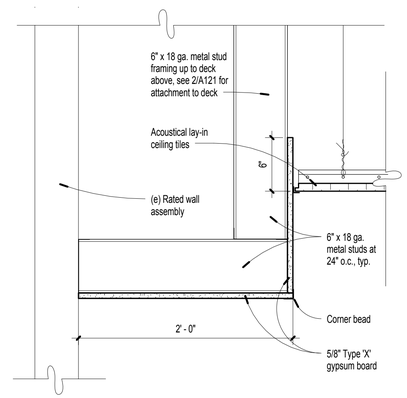
February 26, 2015
H+K Project No: 1406

A602



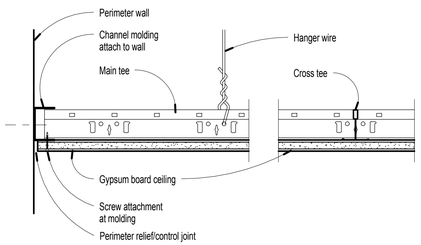
4 Top of Partition

3" = 1'-0"



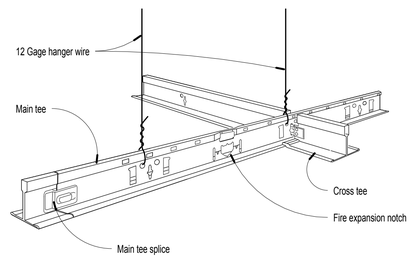
3 Typical Gypsum Board Soffit

1 1/2" = 1'-0"



Perimeter trim notes:

1. Main tees shall terminate into full channel molding at perimeter. Cross tees shall terminate at either a channel molding or angle molding.
2. Provide 12 gage hanger wires within 12 inches of perimeter trim. Hanger wires shall be connected to structural components.

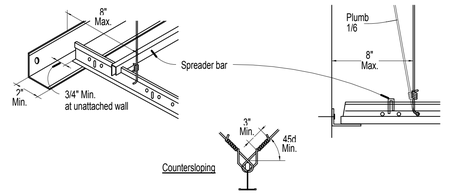


Suspension system notes:

1. Main tees shall be spaced at 48 inches on center. Cross tees shall be spaced per manufacturer's recommendations but no greater than 24 inches.
2. Provide 12 gage hanger wires at 48 inches on center maximum. Hanger wires are required within 12 inches on both sides of a splice clip and at least one hangar wire is required within 12 inches of a transition clip.
3. Hanger wires shall be connected to structural components.
4. Control joints shall be provided where ceiling dimensions exceed 50 feet in either direction with perimeter relief or 30 feet without relief. Provide main tee on either side of control joint.
5. Comply with suspension system manufacturer's installation details for main tee and cross tee installation at light fixtures, access doors and mechanical diffusers.
6. See notes above for perimeter conditions.

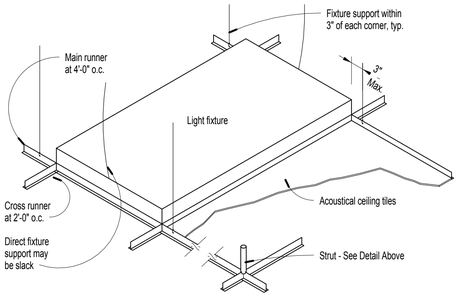
2 Suspended Gypsum Board Ceiling

3" = 1'-0"



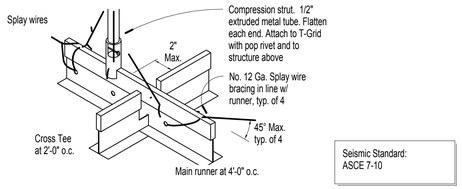
Perimeter Molding Requirements:

1. Wall angle shall be attached to grid at two adjoining walls of a room and unattached to other two walls.
2. Terminal ends of each main beam and cross tee must be supported within 8 inches of each wall with a perimeter wire.
3. Provide spreader bar or other suitable system at unattached walls to maintain spacing of main beams and cross tees.



Fixture and equipment suspension:

1. Light Fixtures: All light fixtures shall be positively attached to the suspended ceiling system. Provide 12 gage hangars attached to the grid members within 3 inches of each corner of each fixture. Tandem fixtures may utilize common wires. Fixtures weighing less than 56 pounds shall have two (2) additional 12 gage hangers connected from the fixture housing to the structure above. These wires may be slack.
2. Mechanical Equipment: Services weighing less than 20 pounds shall be positively attached to the ceiling suspension main runners or to cross runners with the same carrying capacity as the main runners. Services weighing more than 20 pounds but less than 56 pounds shall have an additional two (2) 12 gage hangars connected from the terminal or service to the ceiling system hangers or to the structure above. These wires may be slack.



Seismic Standard: ASCE 7-10

Seismic Suspension Requirements:

1. Ceiling area over 144 sq. ft. or rated ceiling assemblies over 96 square feet shall have splay wires installed at 12'-0" o.c. each way.
2. Splay wire to be 12 gage steel wire attached to structure above and to grid with not less than four (4) tight turns in 1-1/2".
3. Vertical hanger wires shall be 12 gage spaced 4 feet on center or 10 gage spaced 5 feet on center and shall be attached to the suspension member and to the sturcture above with a minimum of three (3) turns.
4. Hanger and perimeter wires must be plumb within 1 in 6 unless counter sloping wires are provided.
5. Any connection device at the supporting construction shall be capable of carying not less than 100 pounds.
6. Bracing assemblies shall include four 12 gage wires secured to the main runner within 2 inches of the cross runner intersection and splayed 90 degrees from each other at an angle not exceeding 45 degrees from the plane of the ceiling. A strut fastened to the main runner shall be extended to and fastened to the structural members above. The strut shall be adequate to resist the vertical component induced by the bracing wires.
7. Bracing assemblies shall be placed not more than 12 feet on center in all directions with the first point located not more than 6 feet from each perimeter wall.
8. Bracing wires shall be attached to the grid and to structure in such manner that they can support a design load of not less than 200 pounds or the actual design load with safety factor of 2, whichever is greater.
9. For essential facilities, hanger wire connections must be capable of carrying 200 pounds and bracing (splay) wires shall be capable of carrying 440 pounds, shot-in anchors in concrete are not permitted for bracing wires.
10. Refer to notes above for perimeter molding conditions.
11. Refer to notes above for suspension requirements at light fixtures and mechanical equipment.

1 Suspended Clg. Seismic Bracing Requirements

3" = 1'-0"

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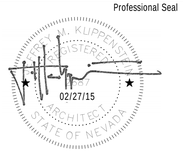

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Sparks Municipal Court
Restroom, Office, and Lobby Renovation

1450 C Street
Sparks, Nevada 89431

Ceiling Details

February 26, 2015
H+K Project No: 1406

A603

Door Schedule

Door Number	DOORS							FRAME				DETAILS				Label	Hardware Group	Comments
	Width	Height	Pair	Material	Type	Glass	Door Rating	Material	Frame Depth	Frame Rating	Elev.	Head	Strike	Hinge	Sill			
100A	3' - 0"	7' - 0"		AL	AFG	G2	--	AL	4 1/2"	--	2	5/A702	8/A702	9/A702	7/A702	-	H3	Coordinate power for door operator
100B	3' - 0"	7' - 0"		AL	AFG	G4	--	AL	4 1/2"	--	4	5/A702	8/A702	11/A702	10/A702	-	H3	Coordinate power for door operator
104	3' - 0"	7' - 0"		WV	F	--	--	HM	5 7/8"	--	A	3/A702	2/A702	12/A702	--	-	H1	
106	3' - 0"	7' - 0"		WV	F	--	--	HM	5 7/8"	--	A	3/A702	2/A702	12/A702	--	-	H2	
107	3' - 0"	7' - 0"		WV	F	--	--	HM	8 1/4"	--	A	3/A702	2/A702	12/A702 Sim.	--	-	H2	

Schedule Notes

1. Contractor and subcontractors shall provide all required electrical service and equipment for complete installation of any hardware requiring electrical service even though they may not be specifically noted on the electrical drawings.
2. Hardware locations shall be in accordance with current edition of ANSI/SDI A250.8 for steel doors. Hardware for wood doors shall be located per DHI-WDHS-3. Contractor shall coordinate all door handing including all hardware provisions.
3. Hardware supplier shall coordinate keying with Owner prior to submittal.
4. All frame sizes in Door Schedule indicate overall frame width. Throat widths shall be coordinated by Contractor.
5. Contractor to coordinate door handing per floor plans. Frame detail references do not indicate handing or orientation. Actual installations may be opposite hand, mirrored, or both. Detail references indicated for one frame condition are considered the same for all other similar conditions on that frame elevation.
6. See frame elevations for additional details.

Material Legend

Glazing Legend:

G1	1" Insulated glass
G2	1" Insulated & tempered
G3	1/4" Clear float glass
G4	1/4" Clear tempered glass

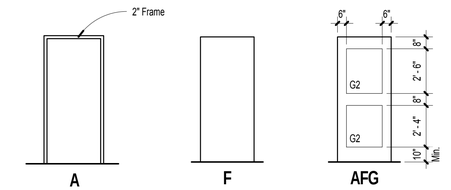
Material and Type Legend:

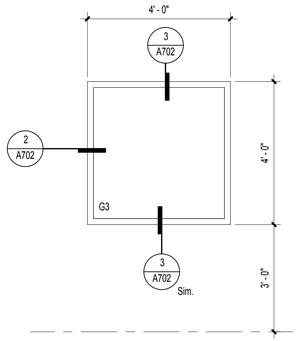
WV	Solid Core Wood Veneer-faced
HM	Steel Hollow Metal - painted
AL	Aluminum

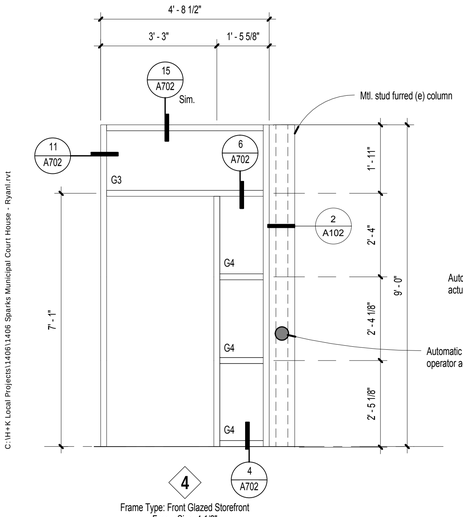
Hardware Groups

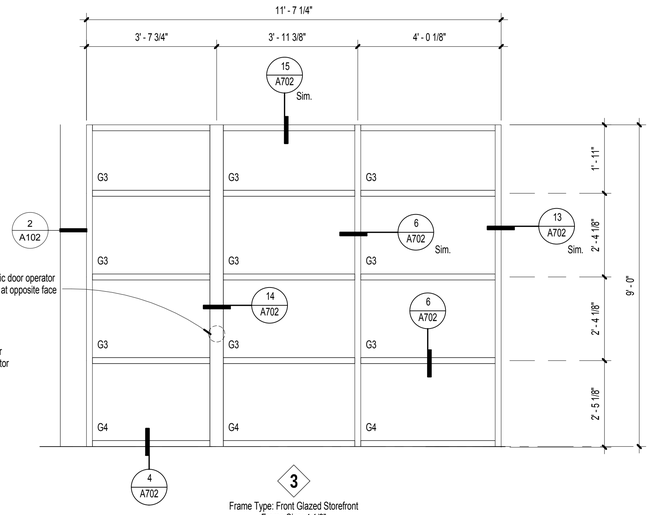
Qty.	Item	Description	Finish	Manufacturer
Group H1: Door 104				
3	Hinges	BB1168 4.5 x 4.5	652	Hager
1	Classroom Lock	ND70PD RHO	626	Schlage
1	Cylinder	Keymark	626	Medeco
1	Wall Stop	1270WVCP	619	Trimco
3	Silencers	GJ64		Glynn-Johnson
Group H2: Door 106, 107				
3	Hinge	BB1168 4.5 x 4.5	652	Hager
1	Classroom Lock	ND70PD RHO	626	Schlage
1	Cylinder	Keymark	626	Medeco
1	Closer	4110EDA	689	LCN
1	Wall Stop	1270WVCP	619	Trimco
3	Silencers	GJ64		Glynn-Johnson
Group H3: Door 100A, 100B				
1	Exit Device	99NL	626	Von Duprin
1	IC Core	Keymark	626	Medeco
1	IC Rim Housing	20-079	626	Schlage
1	Auto Door Operator	Per Section 08 71 11		
3	Auto Door Acuator	Per Section 08 71 11		
2	Pivot Hinges	Per Section 08 41 13		
1 set	Weatherstrip	Per Section 08 41 13		
1	Threshold	Per Section 08 41 13		
1	Door Sweep	Per Section 08 41 13		

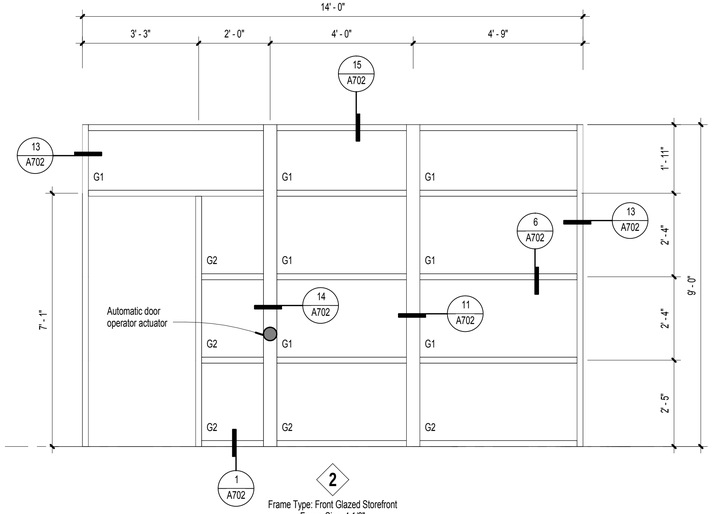
Door and Frame Types











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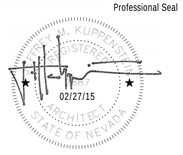

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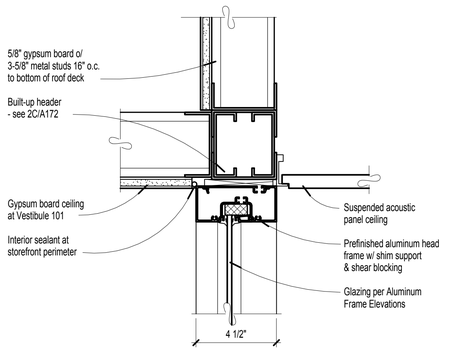
Restroom, Office, and Lobby Renovation

1450 C Street
Sparks, Nevada 89431

Door Schedule,
Storefront Elevations

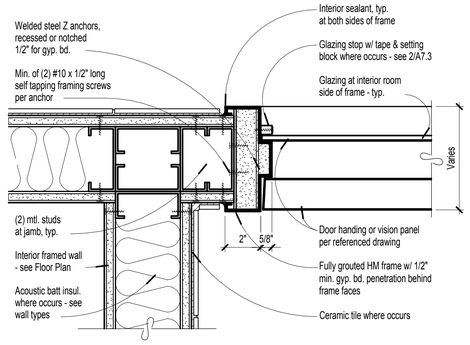
February 26, 2015
H+K Project No: 1406

A701



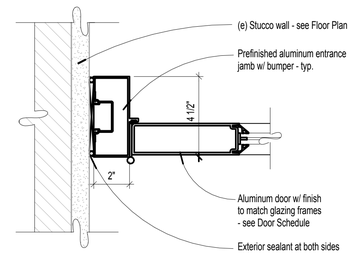
15 Storefront Head at Stucco Wall

3" = 1'-0"



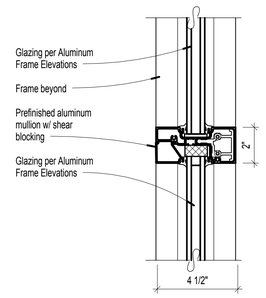
12 Hollow Metal Hinge Jamb at Framed Wall

3" = 1'-0"



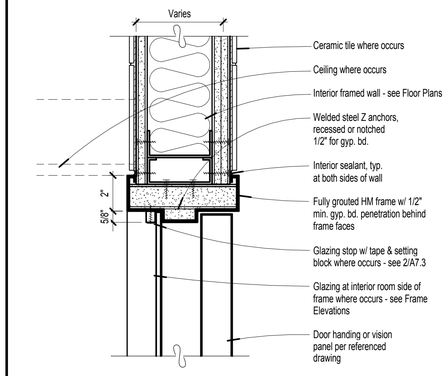
9 Entrance Jamb at Stucco Wall

3" = 1'-0"



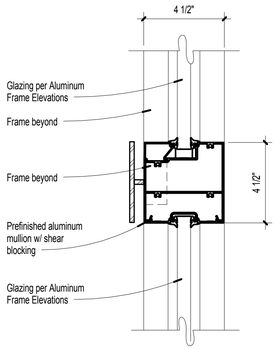
6 Storefront Horizontal Mullion (Vert. Similar)

3" = 1'-0"



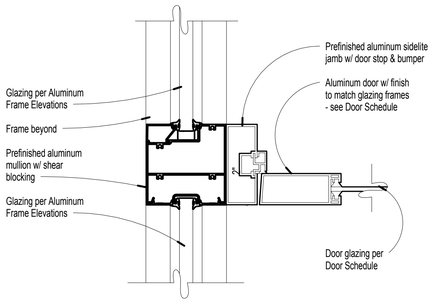
3 Hollow Metal Head at Framed Wall

3" = 1'-0"



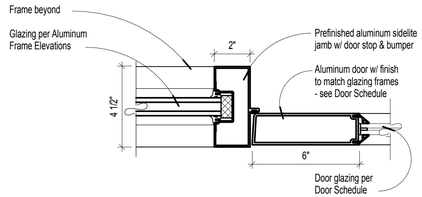
14 Storefront Vertical Mullion

3" = 1'-0"



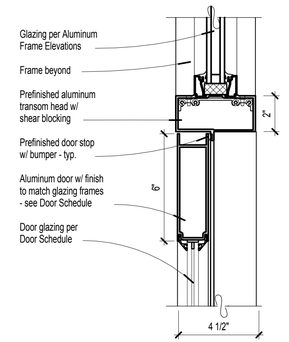
11 Entrance Jamb at Exterior Storefront

3" = 1'-0"



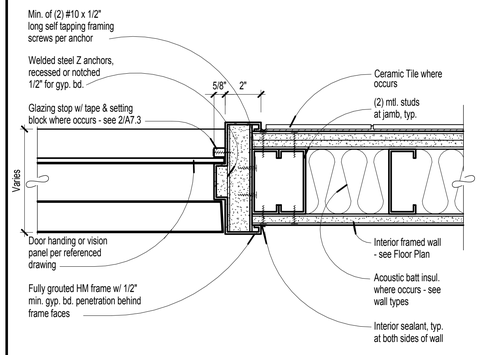
8 Storefront Entrance Jamb at Sidelite

3" = 1'-0"



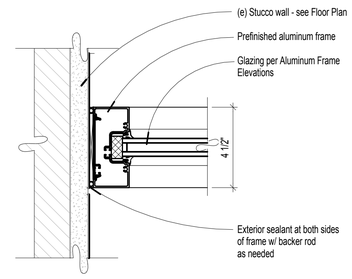
5 Door Head at Storefront Transom

3" = 1'-0"



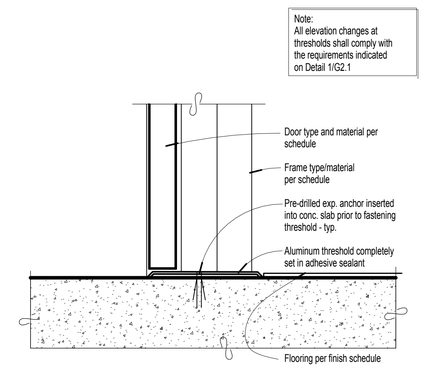
2 Hollow Metal Jamb at Framed Wall

3" = 1'-0"



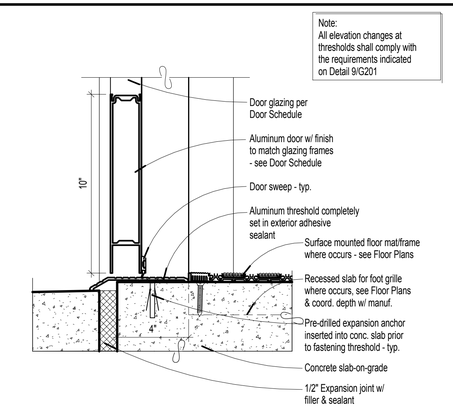
13 Storefront Jamb at Stucco Wall

3" = 1'-0"



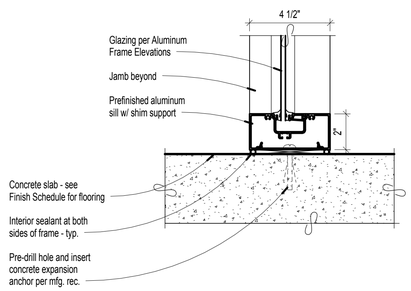
10 Threshold at Interior Door

3" = 1'-0"



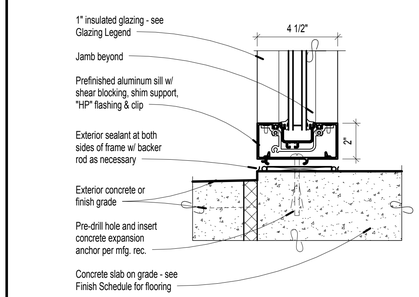
7 Threshold at Exterior Door

3" = 1'-0"



4 Storefront Interior Sill at Concrete Slab

3" = 1'-0"



1 Storefront Exterior Sill at Concrete Slab

3" = 1'-0"

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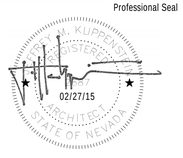

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Sparks Municipal Court
Restroom, Office, and Lobby Renovation

1450 C Street
Sparks, Nevada 89431

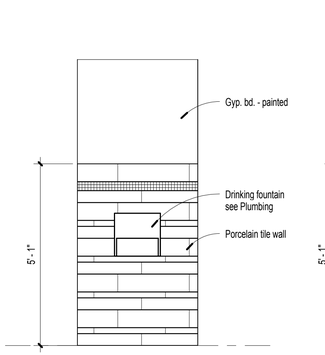
Door and Storefront Details

February 26, 2015
H+K Project No: 1406

A702

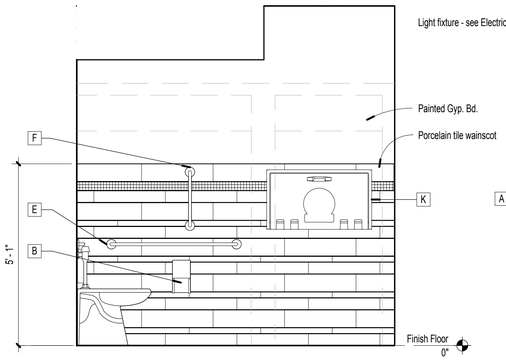
Toilet Accessories Schedule

Mark	Description	Model	Manufacturer	Comments
A	Soap Dispenser	B-4112	Bobrick	
B	Toilet Tissue Dispenser	B-4288	Bobrick	
C	Semi-Recessed Convertible Paper Towel Dispenser And Waste Receptacle	B-3942 ClassicSeries	Bobrick Washroom Equipment, Inc.	
D	Rear Horizontal Grab Bar (36")	B-6806 x 36	Bobrick	
E	Side Horizontal Grab Bar (42")	B-6806 x 42	Bobrick	
F	Side Vertical Grab Bar	B-6806 x 18	Bobrick	
G	Recessed Napkin/Tampon Vendor	B-37063	Bobrick Washroom Equipment, Inc.	
H	Toilet Seat Cover Dispenser	B-4221	Bobrick	48" Top of unit
J	Mirror			
K	Baby Changing Station	KB-200-0155 Stainless steel	Koala Bear Care	40"W x 56"H Mirroer



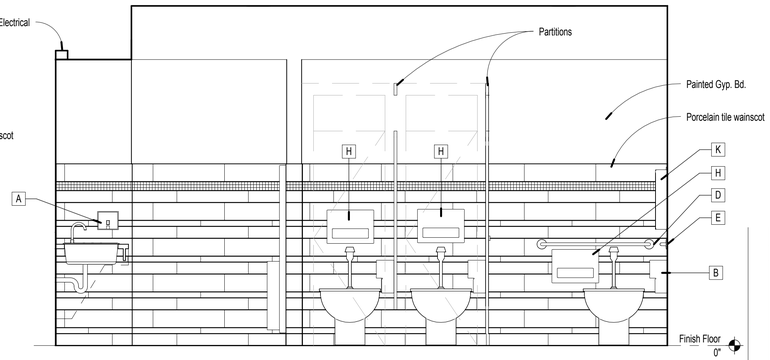
10 Drinking Interior Foundation Elevation

1/2" = 1'-0"



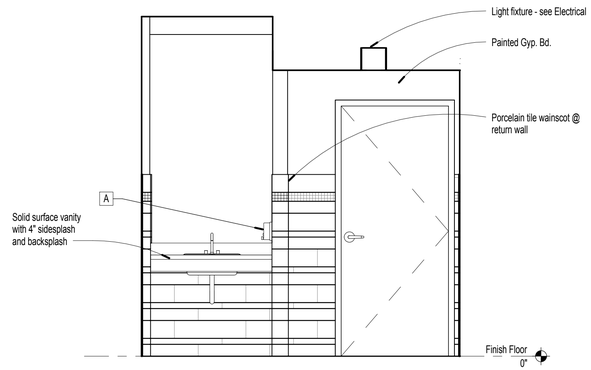
9 Women 102 - South

1/2" = 1'-0"



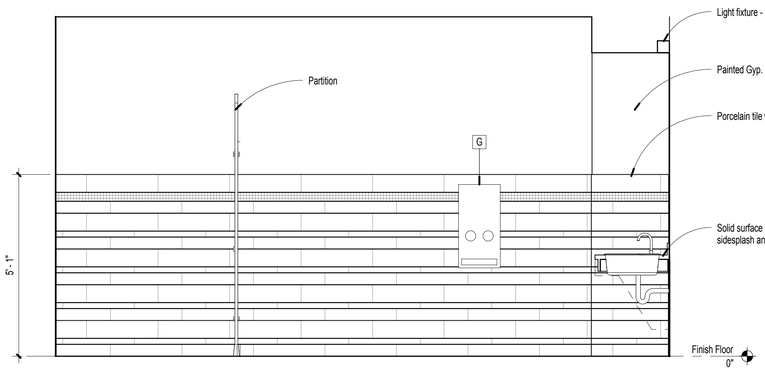
8 Women 102 - East

1/2" = 1'-0"



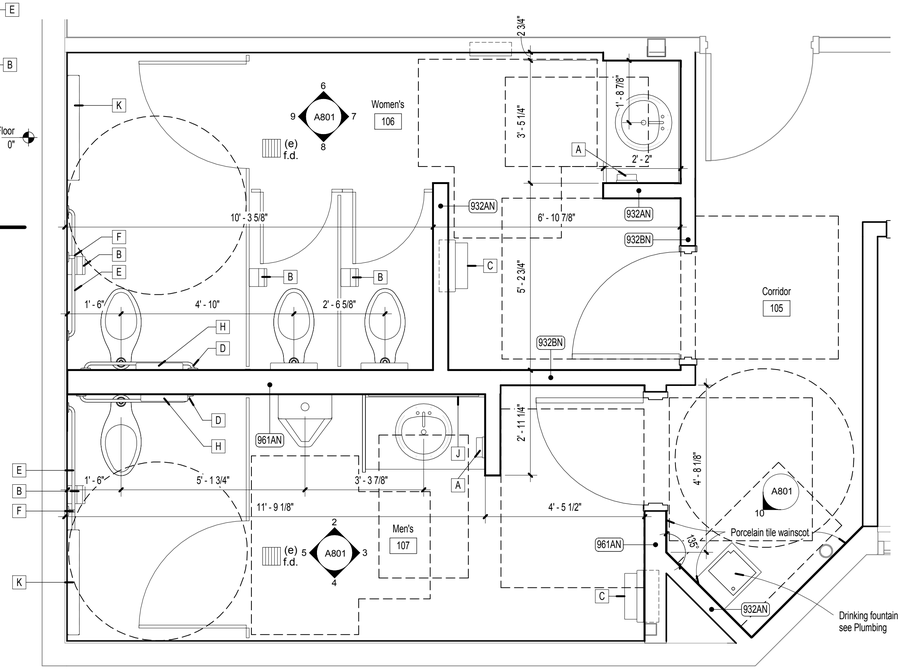
7 Women 102 - North

1/2" = 1'-0"



6 Women 102 - West

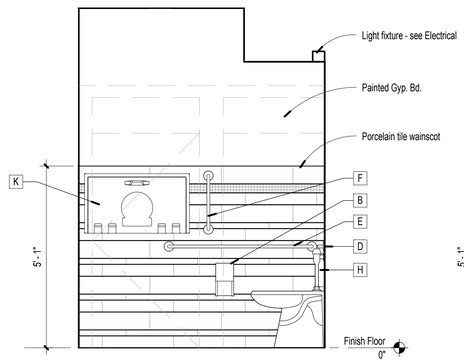
1/2" = 1'-0"



1 Enlarged Restroom Floor Plan

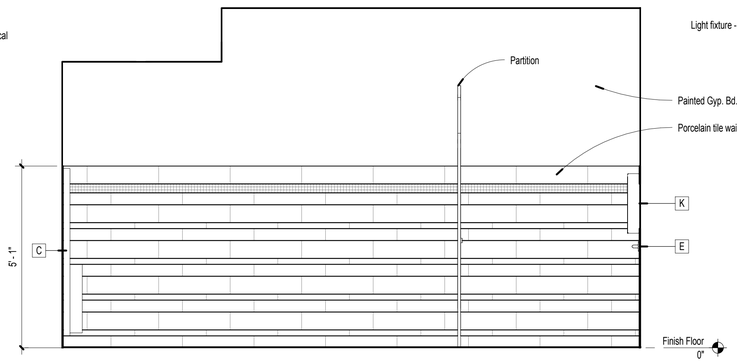
1/2" = 1'-0"

North



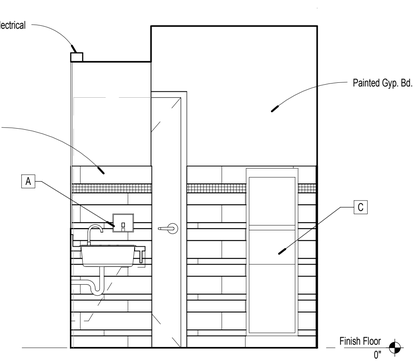
5 Men 101 - South

1/2" = 1'-0"



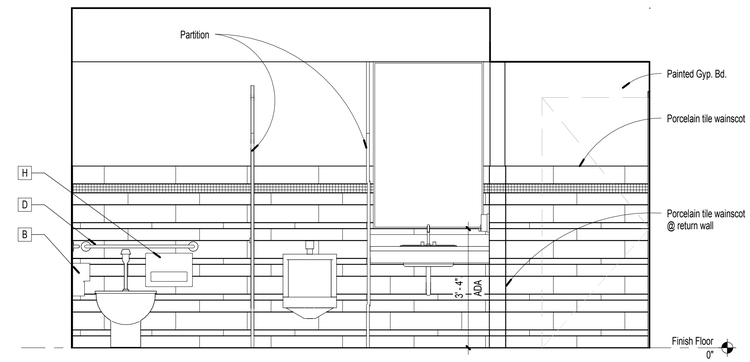
4 Men 101 - East

1/2" = 1'-0"



3 Men 101 - North

1/2" = 1'-0"



2 Men 101 - West

1/2" = 1'-0"

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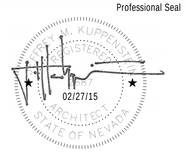

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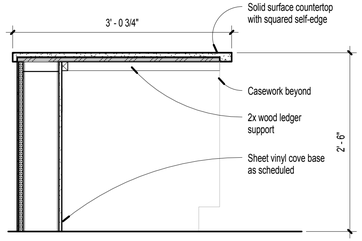
Sparks Municipal Court
Restroom, Office, and Lobby Renovation

1450 C Street
Sparks, Nevada 89431

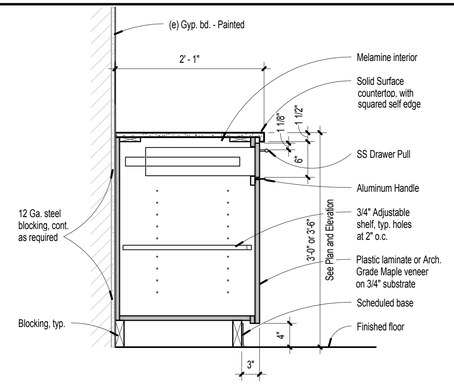
Enlarged Restroom Plan,
Interior Restroom
Elevations and
Accessorie Schedule
February 26, 2015
H+K Project No: 1406

A801



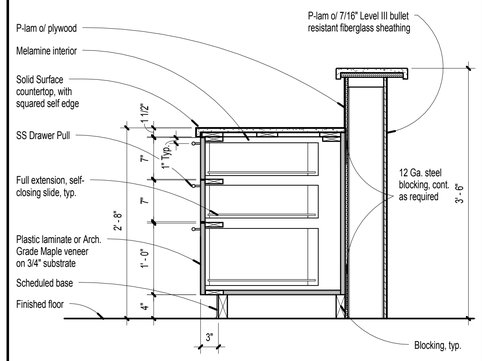
10 Workstation Countertop

1" = 1'-0"



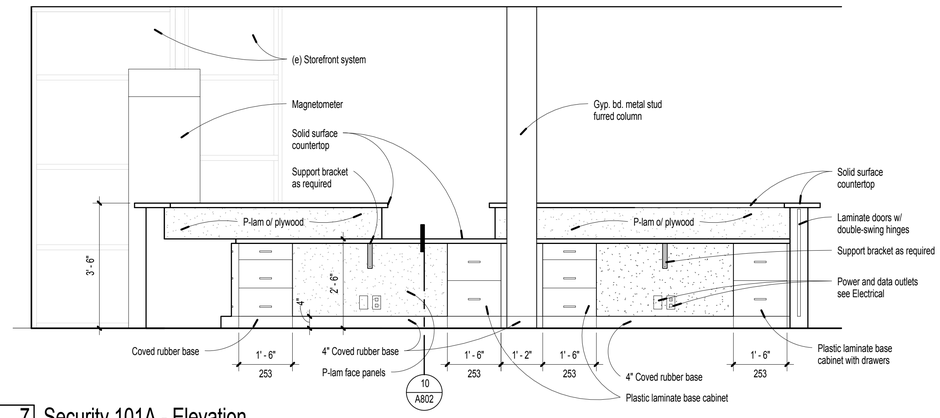
9 Base Cabinet Drawer and Shelf

1" = 1'-0"



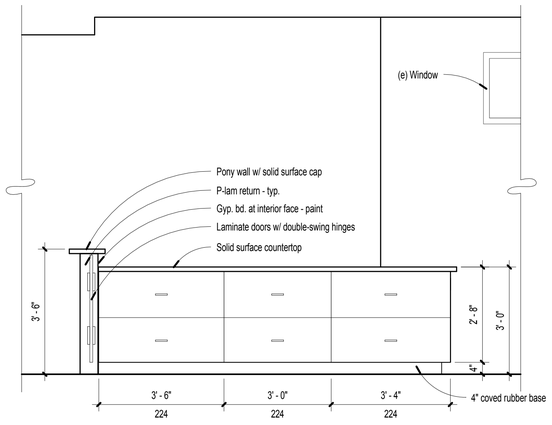
8 Base Cabinet with Three Drawers

1" = 1'-0"



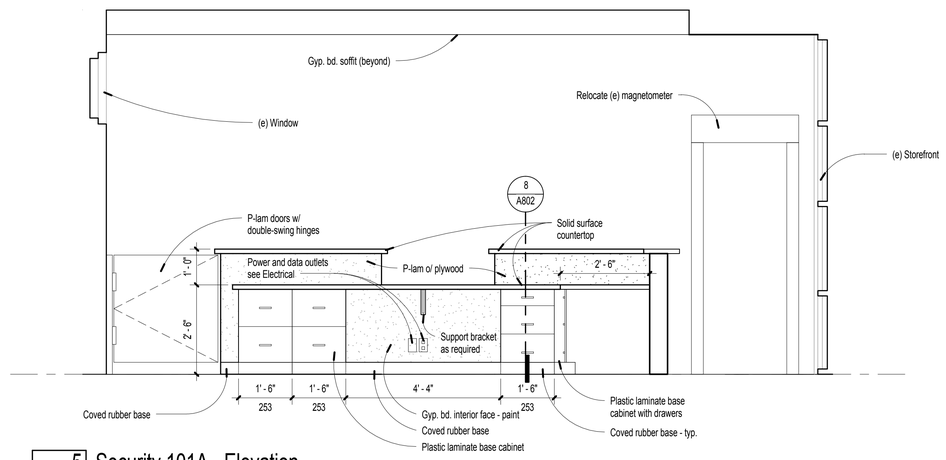
7 Security 101A - Elevation

1/2" = 1'-0"



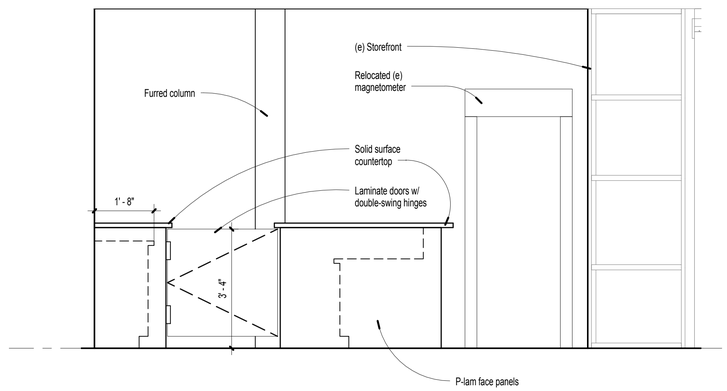
6 Security 101A - Elevation

1/2" = 1'-0"



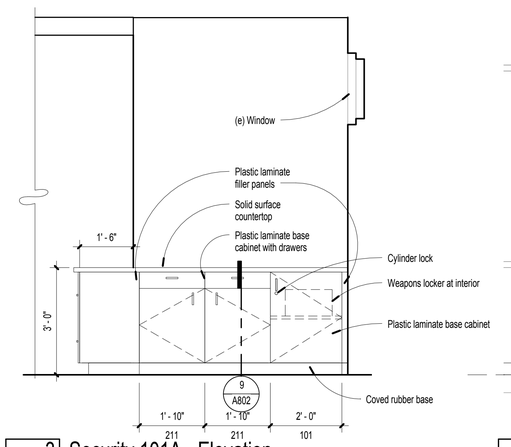
5 Security 101A - Elevation

1/2" = 1'-0"



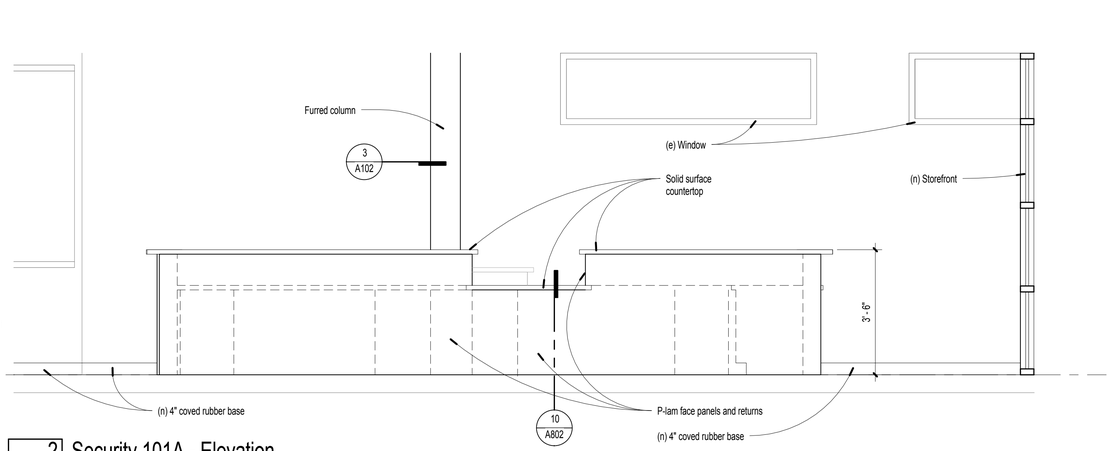
4 Security 101A - Elevation

1/2" = 1'-0"



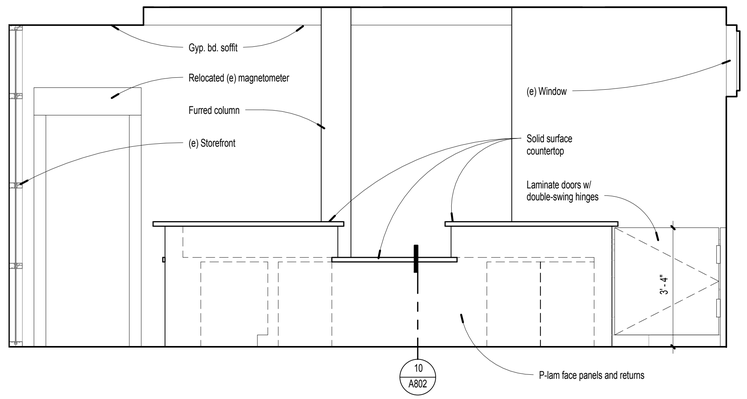
3 Security 101A - Elevation

1/2" = 1'-0"



2 Security 101A - Elevation

1/2" = 1'-0"



1 Security 101A - Elevation

1/2" = 1'-0"

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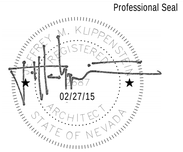

Date	Revision

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F 775+332+6642
hkarchitects.com

Sparks Municipal Court
Restroom, Office, and Lobby Renovation

1450 C Street
Sparks, Nevada 89431

Casework Elevations

February 26, 2015
H+K Project No: 1406

A802

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION, INVERT ELEVATION, SIZES, AND POINT OF CONNECTION OF ALL EXISTING UTILITIES PRIOR TO ROUGH-IN OF ANY PIPING.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES TO MEET ADA REQUIREMENTS.
4. FOR ALL WALL HUNG FIXTURES, PROVIDE A 1/8" x 6" BACKING PLATE BOLTED TO A MINIMUM OF 4 STUDS. PROVIDE CONCEALED ARMS FOR LAV'S BOLTING TO BACKING PLATE WITH FLOOR STANDS.
5. HANDI-CAP WATER CLOSETS SHALL HAVE WATER ROUGH-IN LOCATED TO PROVIDE FLUSH HANDLE FACING THE WIDE SIDE OF STALL.
6. ALL WATER PIPING IN EXTERIOR WALLS SHALL BE INSULATED AND INSTALLED INSIDE THE BUILDING INSULATION.
7. COORDINATE THE ROUTING OF PLUMBING WITH DUCTWORK AND ELECTRICAL SECTIONS PRIOR TO BEGINNING WORK.
8. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
9. ALL SEWER & WASTE SHALL BE SLOPED @ 1/4" = 1'-0"
10. REFER TO ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION AND NEW WORK TO BE PERFORMED.
11. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKEOFF. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 5'-0" (CONCEALED LOCATIONS ONLY).
12. ALL MATERIALS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
13. ALL DUCT BRANCH SIZES TO CEILING DIFFUSERS ARE CEILING DIFFUSER SIZE EXCEPT WHERE NOTED.
14. CD DESIGNATION "12/12 CD-4" INDICATES 12/12 DUCT CONNECTION WITH 4-WAY PATTERN (2C INDICATES A 2 WAY CORNER THROW PATTERN).
15. INSULATE DOMESTIC HOT AND COLD WATER PIPING AND WASTE PIPING BELOW (ADA) HANDICAPPED PLUMBING FIXTURES WITH "TRUEBRO" LAV GUARD PROTECTIVE MOLDED CLOSED CELL VINYL PIPE COVERS, WITH VANDAL RESISTANT SNAP-CLIP FASTENERS, AND ASTM E-84 FLAME/SMOKE TEST RATING OF 25/450.
16. INSTALL RIGID CAP ON ALL ABANDONED WATER, WASTE AND VENT LINES.
17. PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
18. INFORMATION OF EXISTING CONDITIONS SHOWN ON THE DRAWINGS IS BELIEVED TO BE CORRECT BUT NOT GUARANTEED. CONTRACTOR SHALL RELY ON SITE VISIT AND NECESSARY INVESTIGATION TO INSURE THAT HIS BID IS CORRECT TO MEET THE INTENTION OF THE WORK TO BE PERFORMED. EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO PERFORM THIS TASK.
19. FIXTURE TRIM INCLUDES FAUCET, DRAIN GRID, TRAP, TRAP ARM, WATER SUPPLY ANGLE STOPS, AND SUPPLY RISERS.
20. ALL PLUMBING FIXTURES REMOVED SHALL BE SALVAGED AND TURNED OVER TO OWNER AT COMPLETION OF JOB.

AUTOMATIC FIRE SPRINKLER/FIRE PROTECTION NOTE

AUTOMATIC FIRE SPRINKLERS: EXISTING AUTOMATIC FIRE SPRINKLER CONDITIONS ARE SHOWN ON THE DRAWINGS AS REFERENCE ONLY. THE EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE REMODELED TO SUIT THE NEW CONDITIONS IN ACCORDANCE WITH NFPA 13, LOCAL AND STATE AUTHORITIES BY A LICENSED FIRE PROTECTION CONTRACTOR. WORK INCLUDES RELOCATION OF EXISTING PIPING AND HEADS AS REQUIRED FOR NEW SYSTEM.

DRAWING SCHEDULE

PLUMBING FIXTURES

WC-1 — WATER CLOSET (ADA)
AMERICAN STANDARD MODEL #3351.101 AFWALL 1.60 GPF WALL MOUNTED VITREOUS CHINA TOILET WITH ELONGATED BOWL. FURNISH WITH MOEN MODEL #8310AC16 SENSOR ACTIVATED FLUSH VALVE, MOEN #104402 24" WIRE LEAD, MOEN #104401 TRANSFORMER (TO BE LOCATED ABOVE CEILING WITH ACCESS PANEL, FOR UP TO 10 FIXTURES), OLSONITE #10SSCT TOILET SEAT, McQUIRE ANGLE STOP, AND ZURN CARRIER.

L-1 — LAVATORY (ADA)
AMERICAN STANDARD MODEL #0495.300 "OVALYN" UNDER-COUNTER MOUNT VITREOUS CHINA LAVATORY, GLAZED UNDERSIDE. FURNISH WITH MOEN #CA8301 INFRARED SENSOR FAUCET WITH 0.5 GPM FLOW AERATOR, MOEN 104402 24" WIRE LEAD, MOEN 104401 TRANSFORMER (TO BE LOCATED ABOVE CEILING WITH ACCESS PANEL, FOR UP TO 10 LAVATORIES), MOEN 104451 3/8 COMPRESSION THERMOSTATIC MIXING VALVE W/INTEGRAL CHECK STOPS, GRID STRAINER, AND 17 GAUGE CHROME PLATED P-TRAP.

U-1 — URINAL (ADA)
AMERICAN STANDARD MODEL #6601.012 "LYNBROOK" WALL MOUNT URINAL. FURNISH WITH MOEN #8312AC10 SENSOR ACTIVATED 1.0 GPF FLUSH VALVE, MOEN #104402 24" WIRE LEAD, AND ZURN CARRIER.

DF-1 — DRINKING FOUNTAIN (ADA)
HAWS MODEL #1107LBP LEAD-FREE BARRIER FREE STAINLESS STEEL WALL MOUNT DRINKING FOUNTAIN WITH VANDAL RESISTANT BUBBLER. FURNISH WITH #6700 MOUNTING PLATE. MOUNT AT ADA HEIGHT, SEE ARCHITECTURAL ELEVATIONS.

WHA — WATER HAMMER ARRESTOR
SIOUX CHIEF "HYDRA-RESTER" PISTON STYLE WATER HAMMER ARRESTOR PDI STANDARD AS NOTED ON DRAWINGS.

PLUMBING ROUGH-IN SCHEDULE

ABBR.	FIXTURE	ROUGH-IN SIZES (INCHES)					COMMENTS
		HW	CW	V	TRAP	S/W	
WC-1	WATER CLOSET	–	1/2	2	INTEG.	4	WALL HUNG, ADA
L-1	LAVATORY	1/2	1/2	1-1/2	1-1/4 x 1-1/2	1-1/2	COUNTER MOUNT
U-1	URINAL	–	3/4	2	INTEG.	2	WALL MOUNT, ADA
DF-1	DRINKING FOUNTAIN	–	1/2	1-1/2	1-1/2 x 1-1/2	1-1/2	ADA

MECHANICAL EQUIPMENT

EF-1 — EXHAUST FAN
GREENHECK MODEL #SP-A410 CEILING MOUNTED EXHAUST FAN, 300 CFM, 0.20" ESP. 121 WATTS, 1.74 AMPS, 115V/1PH. FURNISH WITH GRAVITY BACKDRAFT DAMPER AND CEILING MOUNT KIT.

EXHAUST FAN CONTROL: SWITCH WITH LIGHTS.

AIR DISTRIBUTION

NUMBERS ARE PRICE AS BASIS FOR DESIGN, EXCEPT WHERE NOTED

CD	CEILING SUPPLY DIFFUSER	T-BAR	*MOD. SMDA TYPE 36 FRAME
CD	CEILING SUPPLY DIFFUSER	GYPBOARD	*MOD. SMCD TYPE 1 FRAME
G	CEILING RETURN GRILLE	T-BAR	**MOD. 80 1/2"x1/2"x1/2" TYPE TB FRAME
G	CEILING RETURN GRILLE	GYPBOARD	**MOD. 80 1/2"x1/2"x1/2" TYPE D FRAME
MVD	MANUAL VOLUME DAMPER		RUSKIN MDRS25

* FURNISH DIRECTIONAL BAFFLE FOR PROPER THROWS
** REQUIRES SQUARE TO ROUND ADAPTER

ALL AIR DISTRIBUTION SHALL BE FACTORY PAINTED WHITE ENAMEL INCLUDING SCREWS, UNLESS NOTED OTHERWISE.

LEGEND

ALL ITEMS SHOWN IN THIS LEGEND ARE NOT NECESSARILY USED ON THE DRAWINGS.

ABBREVIATION	SYMBOL	DESCRIPTION
SUP		SUPPLY AIR
RET		RETURN AIR
EXH		EXHAUST AIR
CA		COMBUSTION AIR
RA		RELIEF AIR
TA		TRANSFER AIR
OSA		OUTSIDE AIR/MAKE-UP AIR
CD		CEILING DIFFUSER
R		REGISTER WITH OBD
FLEX.D.		FLEXIBLE DUCT
FDC		FLEXIBLE DUCTWORK CONNECTOR
LD		LINED DUCTWORK
MVD		MANUAL VOLUME DAMPER
BDD		BACK DRAFT DAMPER
SGD		SLIDE GATE DAMPER
G		RETURN/EXHAUST GRILLE
SWR		SIDE WALL REGISTER
OBD		OPPOSED BLADE DAMPER
FR		FLOOR REGISTER
AD		ACCESS DOOR
LD		LINEAR DIFFUSER
SD		SLOT DIFFUSER
LFM		LAMINAR FLOW MODULE
FD	F	FIRE DAMPER
AF	AF	AIR FLOW MEASURING STATION
M	M	MOTORIZED DAMPER
FS	FSD	COMBINATION FIRE/SMOKE DAMPER
T	T	THERMOSTAT
TS	TS	TEPERATURE SENSOR
TCP		TEMPERATURE CONTROL PANEL
UC		UNDER CUT
DL		DOOR LOUVER
CFM		CUBIC FEET PER MINUTE
RD		ROUND
REF		REFERENCE
LLS		LOW LIMIT SENSOR
POC		POINT OF CONNECTION
POD		POINT OF DEMOLITION
TYP		TYPICAL
REF		REFERENCE
I.E.		INVERT ELEVATION
STC		SOUND TRANSMISSION CLASS
——	CO_2	CO2 SENSOR
SS OR W		SANITARY SEWER OR WASTE BELOW GRADE
SS OR W		SANITARY SEWER OR WASTE ABOVE GRADE
SD	SD	STORM DRAIN BELOW GRADE
G	G	LOW PRESSURE NATURAL GAS
V		VENT
CW		COLD WATER
HW		HOT WATER (110°, 120°, OR 140° AS NOTED)
HWR		HOT WATER RETURN
HW / CW / HWR		HEAT TRACED
D	D	DRAIN
GV		GATE VALVE
WHA		WATER HAMMER ARRESTOR
P & TR		PRESSURE & TEMPERATURE RELIEF VALVE
PG		PRESSURE GAUGE WITH GAUGE COCK
FD		FLOOR DRAIN
FS		FLOOR SINK
FCO, GCO OR COTG		FLOOR, GRADE CLEANOUT, CLEANOUT TO GRADE
HB		HOSE BIBB
WCO		WALL CLEANOUT
UN		UNION
VTR		VENT THRU ROOF
RD		ROOF DRAIN
AFS		AUTOMATIC FIRE SPRINKLER RISER

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Date Revision

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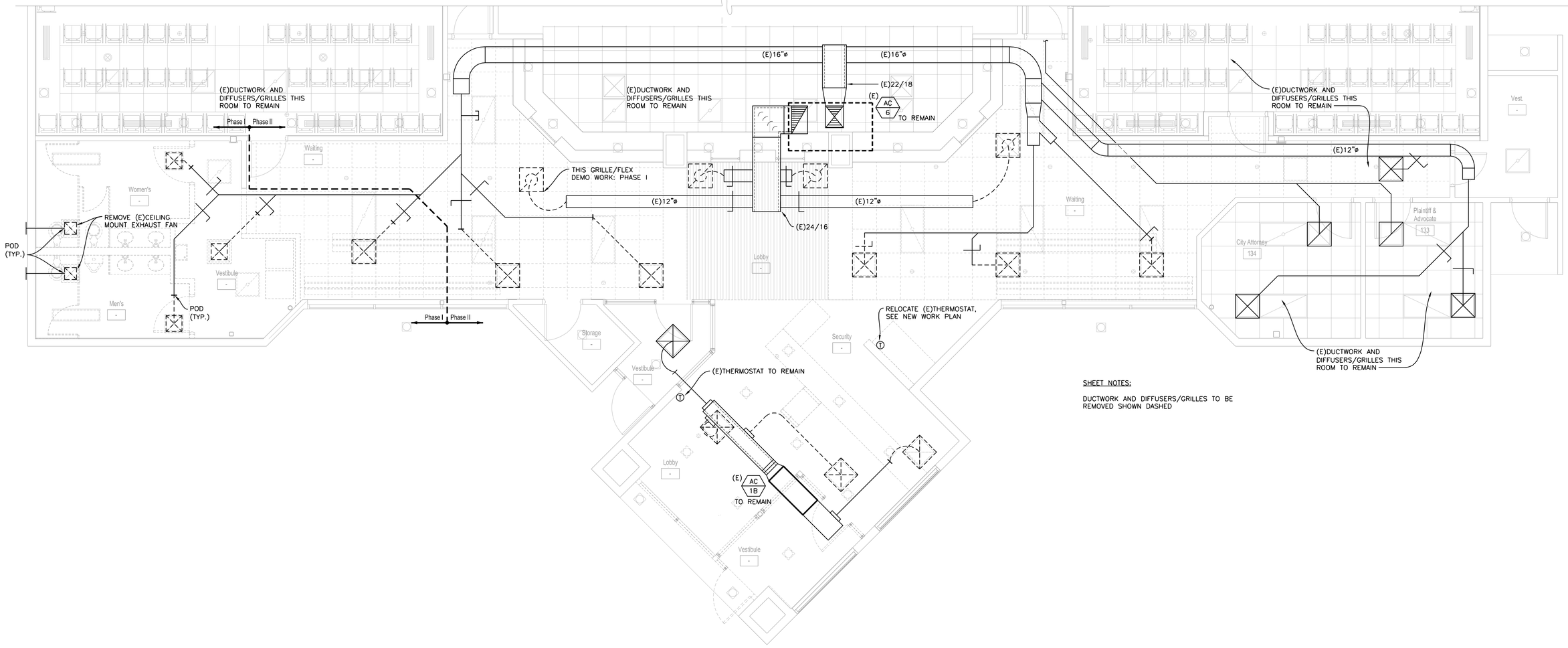
MECHANICAL & PLUMBING SCHEDULES

February 26, 2015
H+K Project No: 1406

MP001



SHEET NOTES:

DUCTWORK AND DIFFUSERS/GRILLES TO BE REMOVED SHOWN DASHED

MECHANICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

A M101

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STATE OF NEVADA — No. 8139 — REGISTERED PROFESSIONAL ENGINEER — STEVEN D. AINSWORTH — Exp. 12-31-16 — MECHANICAL

2.25.15

△	Date	Revision

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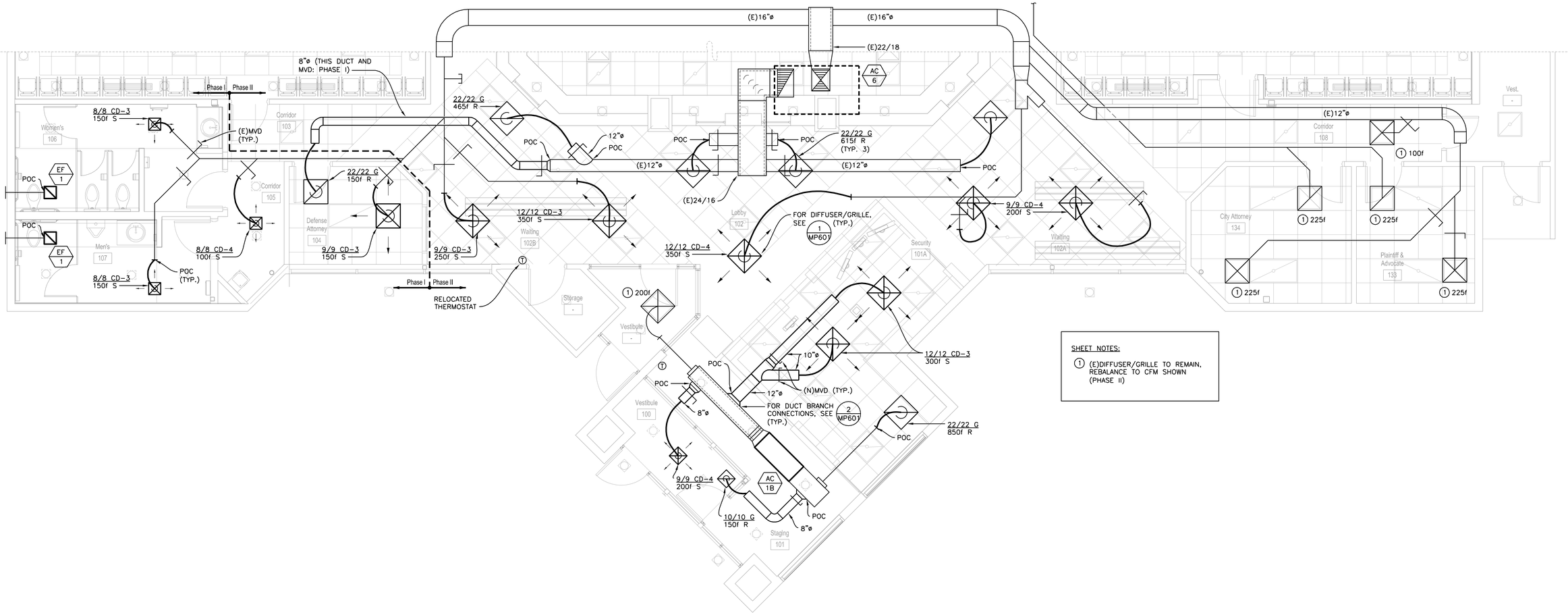
MECHANICAL DEMOLITION PLAN

February 26, 2015
H+K Project No: 1406

M101



SHEET NOTES:

1. (E)DIFFUSER/GRILLE TO REMAIN, REBALANCE TO CFM SHOWN (PHASE II)

MECHANICAL RENOVATION PLAN

SCALE: 1/4" = 1'-0"

A / M102

Professional Seal

STATE OF NEVADA — PROFESSIONAL ENGINEER — STEVEN H. AINSWORTH — Exp. 12-31-16 — MECHANICAL — No. 8139

2.25.15

Date Revision

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MECHANICAL RENOVATION PLAN

February 26, 2015
H+K Project No: 1406

M102

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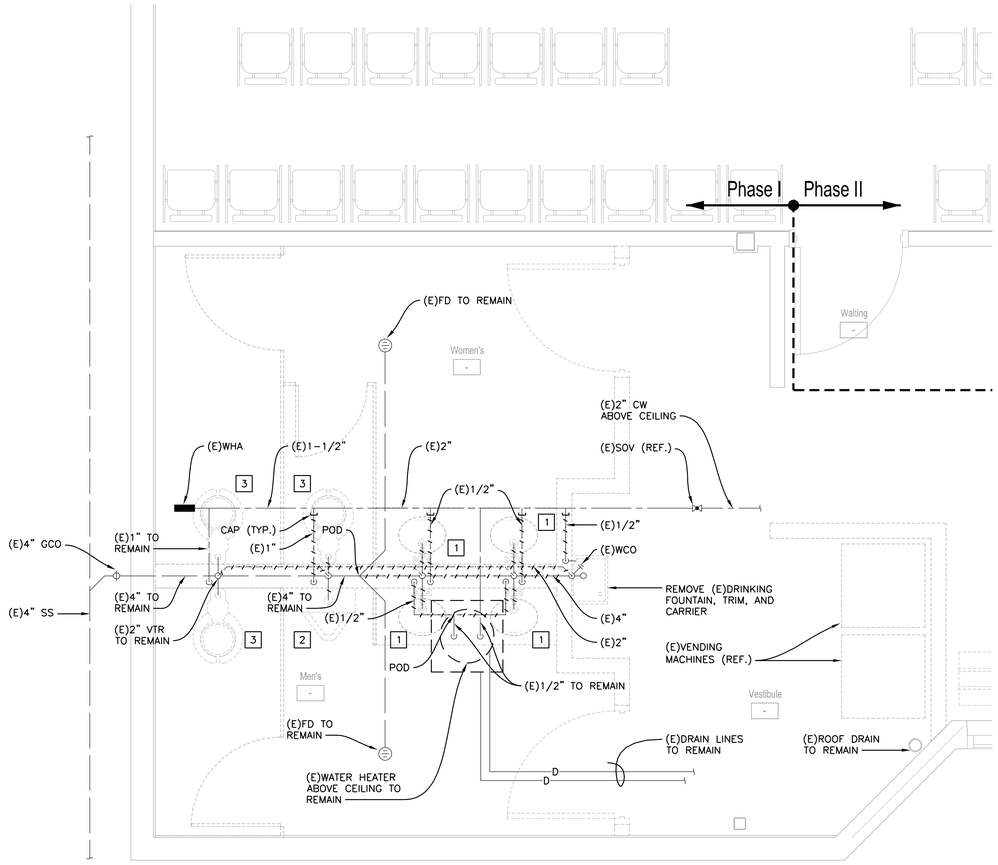


DEMO GENERAL NOTES:

1. PLUMBING TO BE REMOVED SHOWN HATCHED

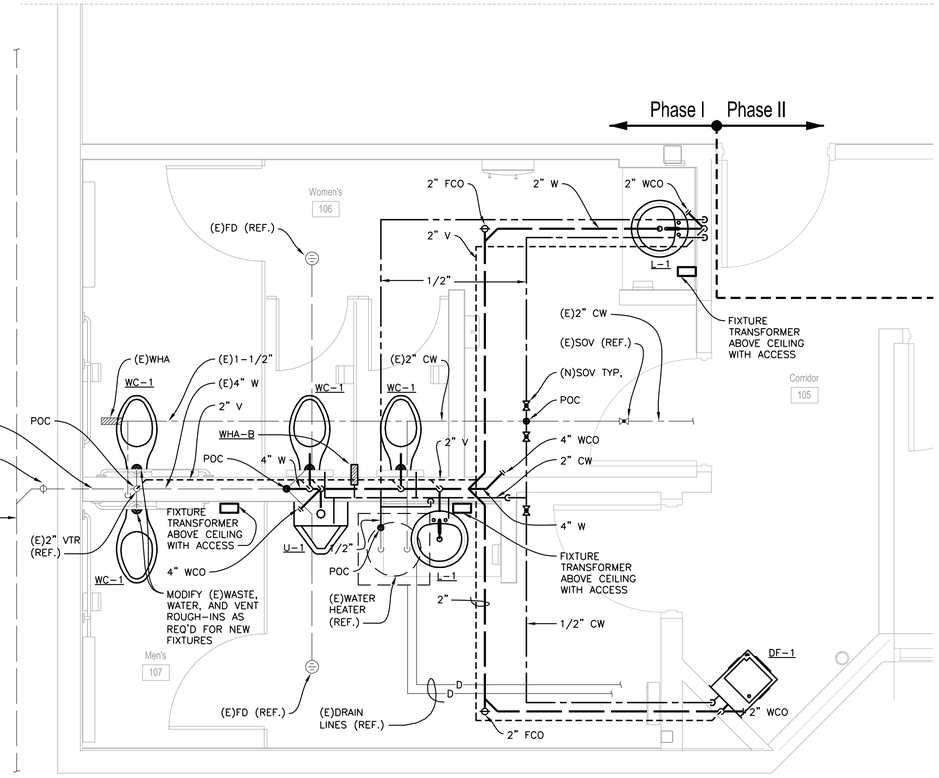
DEMO SHEET NOTES:

1. REMOVE (E)LAVATORY, TRIM, AND CARRIER
2. REMOVE (E)URINAL, FLUSH VALVE, AND CARRIER
3. REMOVE (E)WATER CLOSET, FLUSH VALVE, AND CARRIER

PLUMBING DEMOLITION PLAN

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

A / P103



PLUMBING GENERAL NOTES:

1. ALL POWER WIRING FOR FAUCETS AND FLUSH VALVES TO BE INSTALLED IN WALL IN CONDUIT PER NEC REQUIREMENTS. WIRE CONNECTION TO FAUCETS SHALL PENETRATE FINISHED WALL AS HIGH AS POSSIBLE AT THE UNDERSIDE OF THE LAVATORY AND BE ROUTED IN FLEXIBLE CONDUIT. WIRE CONNECTION TO FLUSH VALVES SHALL BE ROUTED IN MANUFACTURER PROVIDED CABLE TUBE.

PLUMBING RENOVATION PLAN

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

B / P103

Professional Seal

STATE OF NEVADA — PROFESSIONAL ENGINEER — STEVEN M. AINSWORTH — Exp. 12-31-16 — MECHANICAL — No. 8139

2.25.15

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PLUMBING RENOVATION PLANS

February 26, 2015
H+K Project No: 1406

P103

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SPECIFICATIONS

GENERAL CONDITIONS:

A. PROVIDE WORK AND MATERIALS IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE FOLLOWING: 2012 IBC, 2012 UMC, 2012 UPC, 2009 IECC, 2006 IFC, NFPA, NEVADA REGULATORY AGENCIES, STATE FIRE MARSHAL, OSHA.

B. PRIOR TO COMMENCEMENT OF WORK, AND WITHIN 15 DAYS AFTER AWARD OF CONTRACT, SUBMIT TO ENGINEER FOR REVIEW SEVEN COPIES OF A COMPLETE LIST OF EQUIPMENT AND MATERIALS TO BE FURNISHED, INCLUDING ALL SUBSTITUTIONS. SUBSTITUTIONS WILL BE INTERPRETED TO BE ALL MANUFACTURERS OTHER THAN THOSE SPECIFICALLY LISTED BY MODEL OR CATALOG NUMBER.

C. MENTION HEREIN OR ON DRAWINGS REQUIRES THAT THIS CONTRACTOR PROVIDE EACH ITEM LISTED OF QUALITY NOTED OR EQUAL. ALL MATERIAL SHALL BE NEW, FULL WEIGHT, STANDARD IN ALL RESPECTS, AND IN FIRST- CLASS CONDITION. PROVIDE MATERIALS OF THE SAME BRAND OR MANUFACTURE THROUGHOUT FOR EACH CLASS OF MATERIAL OR EQUIPMENT WHEREVER POSSIBLE. MATERIALS SHALL BE TESTED WITHIN THE CONTINENTAL UNITED STATES BY INDEPENDENT, NATIONALLY RECOGNIZED TESTING AGENCY AND SHALL BE LISTED IN ACCORDANCE WITH TESTING AGENCY REQUIREMENTS.

D. CUTTING, PATCHING, AND REPAIRING OF EXISTING (OLD) CONSTRUCTION TO PERMIT INSTALLATION OF PIPING, ETC. IS RESPONSIBILITY OF THIS CONTRACTOR. REPAIR OR REPLACE DAMAGE TO EXISTING WORK WITH SKILLED MECHANICS FOR EACH TRADE INVOLVED IN FIRST-CLASS MANNER.

E. PROVIDE AND INSTALL ALL REQUIRED CONNECTIONS TO EXISTING SYSTEMS AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

F. INTEGRATE EXISTING SYSTEMS WITH ALL NEW WORK TO PROVIDE A COMPLETE WORKING SYSTEM.

G. PROVIDE MINIMUM OF ONE WEEK NOTICE TO OWNER OF SERVICE INTERRUPTIONS. ALL SERVICE INTERRUPTIONS SHALL BE KEPT TO THE MINIMUM POSSIBLE TIME.

H. BE RESPONSIBLE FOR WORK DONE AND MATERIAL INSTALLED UNDER THESE PLANS AND SPECIFICATIONS. REPAIR OR REPLACE, AS MAY BE NECESSARY, ANY DEFECTIVE WORK, MATERIAL, OR PART WHICH MAY SHOW ITSELF WITHIN ONE YEAR OF FILING OF NOTICE OF COMPLETION AND BE RESPONSIBLE FOR DAMAGE TO OTHER MATERIALS, FURNISHING, EQUIPMENT, OR PREMISES CAUSED BY SUCH DEFECTS DURING THIS PERIOD, IF IN THE OPINION OF THE ENGINEER SAID DEFECT IS DUE TO IMPERFECTION OF MATERIAL OR WORKMANSHIP. PROVIDE ALL SUCH WORK AND MATERIALS AT NO COST TO OWNER.

I. BE RESPONSIBLE FOR DAMAGE TO ANY PART OF PREMISES DURING GUARANTEE PERIOD CAUSED BY LEAKS OR BREAKS IN WORK FURNISHED AND/OR INSTALLED UNDER THIS SECTION.

J. UPON COMPLETION OF WORK COVERED BY THIS CONTRACT, FURNISH ENGINEER WITH REPRODUCIBLE DWGS, SHOWING ALL CHANGES OF PIPING, DUCTWORK, ETC. WITHIN BUILDING AND INSTALLED UNDER THIS CONTRACT WHICH ARE NOT IN ACCORD WITH THESE DRAWINGS FOR THE PURPOSE OF PREPARING RECORD DRAWINGS.

PLUMBING:

A. PIPING:
1. WASTE AND VENT PIPING SHALL BE STANDARD WEIGHT CAST IRON WITH NO-HUB STAINLESS STEEL BAND AND NEOPRENE COLLAR CONFORMING TO STANDARD CISPI 301 AND 310.
2. WATER PIPING INSIDE BUILDING SHALL BE TYPE "L" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. SOLDER TO BE 95:5 TIN-ANTIMONY.

B. VALVES:
1. BALL VALVES: BRONZE, 3-PIECE, FULL-PORT, UNION BONNET, 125 SWP, 100 WOG, SCREWED OR SOLDER JOINT.
2. GAS COCKS: IRON BODY, LOOSE KEY, 125 SWP, 200 WOG, UL LISTED SCREWED ENDS.

C. CLEANOUTS:
1. PROVIDE AND INSTALL CLEANOUTS WHERE REQUIRED AND AT ALL BENDS, ANGLES AND UPPER TERMINALS. ALL SHALL BE ACCESSIBLE. ALL CLEANOUTS SHALL BE THE SAME SIZE AS PIPE SERVED.
2. ALL CLEANOUTS SHALL BE CAST IRON CLEANOUT TEE WITH CAST BRONZE COUNTER SINK PLUG COMPLETE WITH ROUND, STAINLESS STEEL ACCESS COVER WITH SECURING SCREW. APPROVED TYPES ARE: ZURN Z-1440-1 OR Z-1460-1, WADE 2-8550-S OR W-89470-R, SMITH 4402 OR 4477.
3. INTERIOR CLEANOUTS IN FINISHED FLOOR SHALL BE ADJUSTABLE TO FLOOR LEVEL AFTER SLAB HAS BEEN POURED AND SET WITH SQUARE SCORIATED TOP OF NICKEL BRONZE, VANDAL-PROOF SCREWS, CAST BRASS CLEANOUT PLUG. APPROVED TYPES ARE ZURN 1400-2, WADE W-7000, SMITH 4020.

D. TEST:
1. TEST PIPING AT COMPLETION OF ROUGH-IN, IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

UTILITY	PRESSURE	TEST MEDIUM	DURATION
WASTE, VENT	HIGHEST VENT PT.	WATER	8 HOURS
WATER	125 PSI	WATER	8 HOURS

E. PIPE INSULATION:
1. INSULATION SHALL BE FURNISHED AND INSTALLED IN STRICT ACCORDANCE WITH BEST TRADE PRACTICES. WHERE INSPECTION OF WORK INDICATES THAT THE SPECIFICATION IS NOT BEING COMPLIED WITH, THE ENTIRE SECTION SHALL BE REMOVED AND REINSTALLED AS SPECIFIED.
2. INSULATION SHALL BE APPLIED TO CLEAN, DRY SURFACES ONLY, AND AFTER TESTING TO INSURE TIGHTNESS.
3. INSULATE HOT WATER WITH 1/2 INCH THICK GLASS FIBER INSULATION "OWENS/CORNING FIBERGLASS 25 ASJ/SSL" OR EQUAL, BY JOHN MANVILLE FINISHED WITH FACTORY APPLIED FIRE RETARDANT V.B. JACKET STAPLED IN PLACE PER MANUFACTURER'S RECOMMENDATIONS. FITTING SHALL BE INSULATED WITH 3/4# CU. FT. FIBERGLASS AND ZESTON'S PREMOLDED INSULATED COVERING SECURED WITH STANDARD FASTENERS. INSTALL A SEGMENT OF RIGID INSULATION AT EACH PIPE HANGER.

F. PIPE INSTALLATION:
1. UNIONS ARE TO BE PROVIDED WHERE NECESSARY FOR PROPER SERVICING OF VALVES, PIPING, AND EQUIPMENT.
2. DIELECTRIC PIPE UNIONS SHALL BE UTILIZED IN CONNECTIONS BETWEEN DISSIMILAR METAL PIPE.
3. PIPING SUBJECT TO EXPANSION OR CONTRACTION SHALL BE ANCHORED IN A MANNER TO PERMIT THE STRAINS TO BE EVENLY DISTRIBUTED AND ALLEVIATED BY SWING JOINTS OR EXPANSION LOOPS.
4. HANGERS AND SUPPORTS SHALL BE DESIGNED TO SUPPORT THE COMBINED WEIGHT OF THE PIPE, ITS FLUID AND INSULATION SHALL HAVE A MINIMUM FACTOR OF SAFETY OF FIVE BASED ON THE ULTIMATE TENSILE STRENGTH OF THE MATERIAL USED.

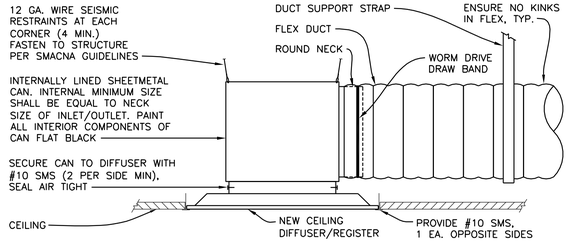
G. STERILIZATION OF WATER LINES:
1. ALL DOMESTIC COLD AND HOT WATER LINES TO BE FLUSHED CLEAN BEFORE INSTALLATION AND THOROUGHLY FLUSHED AND DRAINED AFTER INSTALLATION. ACCOMPLISH STERILIZATION BY OPENING TAPS AT ENDS OF ALL BRANCHES AND INJECTING A SOLUTION OF LIQUID CHLORINE OR SODIUM HYPOCHLORITE AND WATER CONTAINING NOT LESS THAN 50 PPM OF FREE CHLORINE INTO SYSTEM NEAR THE SOURCE MAIN. DURING THIS PROCEDURE, OPERATE ALL VALVES AND OUTLETS AND TEST FOR RESIDUAL CHLORINE. LET STAND FOR 24 HOURS MINIMUM THEN DRAIN AND THOROUGHLY FLUSH UNTIL ALL TRACES OF CHLORINE HAVE BEEN REMOVED (LESS THAN 0.2 PPM) IN ACCORDANCE WITH SECTION 3 OF THE STATE OF NEVADA DIVISION OF HEALTH, WATER SUPPLY REGULATIONS.

HVAC:

A. DUCTWORK
1. RECTANGULAR AND ROUND AIR DUCT SHALL BE GALVANIZED STEEL CONFORMING TO ASTM A03-55T WITH CLASS "D" COATING. DUCT GAUGES, CONSTRUCTION AND INSTALLATION SHALL CONFORM WITH THE RECOMMENDATIONS OF THE LATEST S.M.A.C.N.A. LOW PRESSURE DUCT STANDARDS. ALL INTERIOR EXPOSED DUCTWORK SHALL BE ETCHED FOR PAINTING.
2. DUCT FITTINGS AND CIRCUMFERENTIAL JOINTS SHALL BE SEALED WITH WATER BASED VINYL ACRYLIC DUCT SEALER EQUAL TO DESIGN POLYMERICS DP1010.
3. DUCT WRAP: ALL CONCEALED METAL SUPPLY AIR DUCT AND FITTINGS SHALL BE WRAPPED WITH FOIL FACED (FSK) 2" THICK, 3/4 POUND DENSITY FIBERGLASS INSULATION END JOINTS AND LONGITUDINAL JOINTS SHALL BE OVERLAPPED A MINIMUM OF 2 INCHES AND STAPLED SECURELY.
4. DUCT LINER: SUPPLY AND RETURN AIR DUCTWORK AND WHERE SHOWN ON DRAWINGS SHALL BE INTERNALLY LINED WITH GLASS FIBER DUCT LINER, HAVING EROSION-RESISTANT AND FLAME-RETARDANT NEOPRENE COATING, AND HAVING A MINIMUM THERMAL RESISTANCE OF 0.23 PER DEGREE F/BTUH/INCH AT 75-DEGREES F MEAN TEMPERATURE, WITH MINIMUM SOUND ABSORPTION COEFFICIENT OF 0.63 AT 500-CPS BASE ON TEST METHOD ASTM C42366. MINIMUM OF 1/2 INCH THICK, OWENS CORNING DUCT LINER OR EQUAL. DUCT SIZES ON DRAWING ARE NET.
5. SUPPORT INTERIOR DUCTWORK IN ACCORDANCE WITH S.M.A.C.N.A. MANUAL.
6. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE OR APPROVED EQUAL, CONFORMING TO UL181 CLASS 1 REQUIREMENTS. SECURE WITH PANDUIT FASTENERS.

B. EXHAUST FANS
1. CEILING MOUNTED EXHAUST FANS SHALL BE OF THE CENTRIFUGAL DIRECT DRIVE TYPE. THE FAN HOUSING SHALL BE CONSTRUCTED OF HEAVY-GAUGE GALVANIZED STEEL. THE HOUSING INTERIOR SHALL BE LINED WITH 0.5 IN. ACOUSTICAL INSULATION. THE OUTLET DUCT COLLAR SHALL INCLUDE A SPRING LOADED ALUMINUM BACKDRAFT DAMPER. OUTLET SHALL BE ADAPTABLE FOR HORIZONTAL OR VERTICAL DISCHARGE. THE DESIGNER GRILLE SHALL BE CONSTRUCTED OF ALUMINUM. GRILLES SHALL BE NON-YELLOWING. THE ACCESS FOR WIRING SHALL BE EXTERNAL. THE MOTOR DISCONNECT SHALL BE INTERNAL AND OF THE PLUG-IN TYPE. THE MOTOR SHALL BE MOUNTED ON VIBRATION ISOLATORS. THE FAN WHEEL SHALL BE OF THE FORWARD-CURVED CENTRIFUGAL TYPE AND DYNAMICALLY BALANCED. ALL FANS SHALL BEAR THE AMCA CERTIFIED RATINGS PROGRAM AMCA SOUND AND AIR PERFORMANCE SEAL AND SHALL BE UL/CUL LISTED. EQUAL BY COOK.

C. AIR BALANCE
1. SET ALL VOLUME DAMPERS AND BALANCE SYSTEM SO THAT THE VOLUME INDICATED ON THE DRAWINGS IS BEING DELIVERED. A WRITTEN REPORT SHOWING "KA" FACTORS, FPM, AND CFM FOR EACH GRILLE, REGISTER, CEILING DIFFUSER AND TOTAL AIR VOLUME, EXTERNAL STATIC PRESSURE, RPM AND BHP FOR EACH UNIT, IS TO BE MADE AND SUBMITTED TO THE ENGINEER FOR APPROVAL UPON COMPLETION OF THE BALANCE.
2. INSTALL ANY DAMPERS, BAFFLES, AND ADJUST SHEAVES AS IS NECESSARY TO ACCOMPLISH DESIRED RESULTS.
3. BALANCE CONTRACTOR SHALL BE RSANALYSIS OR RAGLEN SYSTEM BALANCE, NO EXCEPTION.

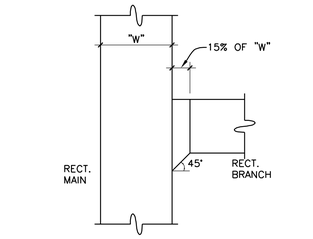


NOTES:
1. GYP CEILING SIMILAR
2. EACH (N)INLET/OUTLET SHALL CONTAIN A CAN PER THIS DETAIL. IF EXISTING CONDITIONS PROHIBIT SUCH AN INSTALLATION, CONTRACTOR SHALL ALERT ENGINEER TO DISCUSS ALTERNATIVES.
3. MINIMUM BEND RADIUS FOR FLEXIBLE DUCTS SHALL NOT BE LESS THAN 1.5 DUCT DIAMETERS.

INLET/OUTLET DETAIL

SCALE: NONE

1 / MP601



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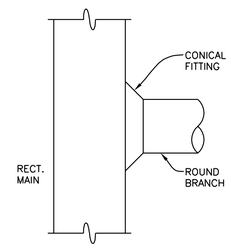

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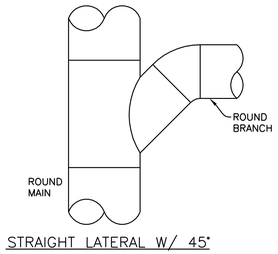

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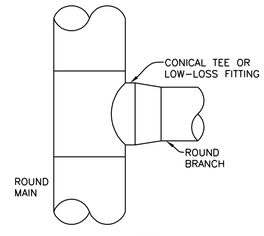

CONICAL TEE

TYPICAL BRANCH DUCTS

SCALE: NONE

2 / MP601

Professional Seal

Date Revision

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SPECIFICATIONS & DETAILS

February 26, 2015
H+K Project No: 1406

MP601

4/24/2014 4:40:14 AM

SPECIFICATIONS

ITEM	DESCRIPTION
16.1	STANDARDS AND CODES: ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING WORK SHOWN OR SPECIFIED WHICH MAY EXCEED THE REQUIREMENTS OF SUCH ORDINANCES, LAWS, REGULATIONS AND CODES.
16.2	COMPLETE INSTALLATION: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, ACCESSORIES, ETC., NECESSARY TO ACCOMPLISH A COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE PLANS TOGETHER WITH THE SPECIFICATIONS.
16.3	PERMITS: OBTAIN AND PAY FOR ALL BUILDING AND WORKING PERMITS AND INSPECTION FEES REQUIRED FOR THIS PROJECT.
16.4	DRAWINGS: DATA PRESENTED ON THESE DRAWINGS SHALL BE FIELD VERIFIED SINCE ALL DIMENSIONS, LOCATIONS, AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS. REVIEW ALL ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL AND SPECIALTY SYSTEMS DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS ON CONDITIONS SHOWN THEREON. DO NOT SCALE ELECTRICAL PLANS FOR FIXTURE, DEVICE OR APPLIANCE LOCATIONS. USE CONFIGURED DIMENSIONS IF GIVEN OR CHECK ARCHITECTURAL OR MECHANICAL DRAWINGS.
16.5	COPYRIGHT: THESE PLANS, SPECIFICATIONS AND ALL RELATED ADDENDA AND DOCUMENTS CONSTITUTE COPYRIGHT MATERIALS OF JP ENGINEERING. ALL RIGHTS CONFERRED BY THE COPYRIGHT AND SIMILAR LAWS ARE RESERVED TO JP ENGINEERING. THESE MATERIALS SHALL REMAIN THE SOLE PROPERTY OF JP ENGINEERING AND MAY NOT BE REPRODUCED, DISTRIBUTED TO OTHERS OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF JP ENGINEERING.
16.6	LOCATIONS: INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. SHIFT/RELOCATE/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ENGINEER, AT NO ADDED COST.
16.7	RECORD DRAWINGS: CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM INDICATING THE FOLLOWING ADDITIONAL INFORMATION: EXACT ROUTING OF ALL CONDUITS LARGER THAN 1" EXACT LOCATION OF ALL SERVICE GROUNDING/BONDING CONNECTIONS CONTRACTORS NAME, ADDRESS AND TELEPHONE NUMBER RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS PRIOR TO FINAL PAYMENT.
16.8	EXAMINATION OF SITE AND EXISTING CONDITIONS: BEFORE SUBMITTING A PROPOSAL, CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL.
16.9	TESTING: PRIOR TO PLACING IN SERVICE, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPENS, GROUNDS, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD. A WRITTEN COPY OF THE TEST RESULTS AND READINGS SHALL BE PROVIDED TO THE OWNER.
16.10	GROUNDING: GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH ARTICLE 250 OF THE NEC. EQUIPMENT GROUNDS HAVE NOT BEEN SHOWN ON DRAWINGS – WHERE GROUND WIRES HAVE BEEN SHOWN THEY INDICATE AN INSULATED GROUND.
16.11	EQUIPMENT STANDARDS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NYLON PLATES, WHITE UNLESS OTHERWISE NOTED, RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS.
16.12	TAMPER-PROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE.
16.13	PANELBOARDS: PANELS SHALL HAVE FLUSH MONO-FLAT TRIM, LOCKING DOOR-IN-DOOR HINGED COVERS AND BOLT-ON CIRCUIT BREAKERS. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE: ONE 1" CONDUIT FOR EACH FOUR SPARE/SPACE CIRCUITS. PROVIDE ONE TYPED AND ONE SPARE PANEL SCHEDULE FOR OWNER'S USE. SCHEDULES SHALL BE TWO COLUMN TYPE WITH ODD CIRCUIT NUMBERS ON THE LEFT AND EVEN NUMBERS ON THE RIGHT.
16.14	CIRCUITING: ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL SET SCREW INSULATED-THROAT FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM -24". WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. METAL-CLAD CABLE (TYPE MC) WILL BE ACCEPTABLE FOR INSTALLATION AS FLEXIBLE WHIPS FROM JUNCTION BOXES TO LIGHTING FIXTURES AND WITHIN CASEWORK. TYPE MC CABLE MAY NOT BE USED FOR HOMERUNS OR SINGLE BRANCH CIRCUITS. ENT IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND VIBRATING EQUIPMENT WITH STEEL FLEX. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY.

ITEM	DESCRIPTION
16.15	WIRING: WIRE SHALL BE COPPER UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE #12 AWG. INSULATION SHALL BE THW, THWN OR THHN.
16.16	FUSES: FUSES SHALL BE SIZED PER ACTUAL NAMEPLATE OF EQUIPMENT SERVED. FUSES SHALL BE DUAL-ELEMENT, CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS. FUSES SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED: CIRCUITS 601 TO 6000 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN LOW-PEAK TIME-DELAY FUSES KRP-C – UL CLASS L CIRCUITS 0 TO 600 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS) – UL CLASS RK1 ALL INDIVIDUAL MOTOR CIRCUITS RATED 480 AMPERES OR LESS SHALL BE PROTECTED BY BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS)-UL CLASS RK1 OR L CIRCUIT BREAKER PANELS SHALL BE PROTECTED BY BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS), LPS-RK (600 VOLTS) OR BUSSMANN LOW-PEAK KRP-C TIME-DELAY FUSES – UL CLASS RK1 OR L ALL DUAL-ELEMENT FUSES SHALL HAVE SEPARATE OVERLOAD AND SHORT-CIRCUIT ELEMENTS. PROVIDE SPARE FUSE CABINET AFTER THE COMPLETION OF THE PROJECT WITH ONE SET OF SPARE FUSES FOR EVERY SIZE USED.
16.17	UTILITY SERVICES: PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS REQUIRED. CONTACT SERVING UTILITIES AND OBTAIN THEIR PROJECT SPECIFIC REQUIREMENTS PRIOR TO BID. UTILITY WORK INDICATED HEREIN IS FOR BIDDING ASSISTANCE ONLY. THESE PLANS DO NOT PURPORT TO INDICATE ALL WORK REQUIRED. (UTILITY SERVICE CHARGES PAID BY OTHERS).
16.18	TEMPORARY CONSTRUCTION POWER: PROVIDE TEMPORARY ELECTRICAL POWER AND LIGHTING FOR ALL TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT. PROVIDE TEMPORARY SERVICE AND DISTRIBUTION AS REQUIRED. COMPLY WITH THE NEC AND OSHA REQUIREMENTS. (ENERGY COSTS BY OTHERS).
16.19	SUBMITTALS: BEFORE ORDERING ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT SIX COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, SWITCHGEAR, PANELS, MOTOR CONTROLLERS, WIRING DEVICES, ETC. PROPOSED FOR THIS PROJECT.
16.20	SUBSTITUTIONS: PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER. SUBSTITUTIONS MUST BE SUBMITTED A MINIMUM OF 10 WORKING DAYS PRIOR TO BID FOR CONSIDERATION. PROPOSED SUBSTITUTIONS PROVIDED LATER WILL NOT BE REVIEWED OR ALLOWED. BID SUBSTITUTED MATERIAL WILL ONLY BE ALLOWED IF ACCEPTED IN WRITING BY ENGINEER.
16.21	IDENTIFICATION: PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE: DESIGNATION (i.e. PANEL A) FUNCTION (i.e. AIR HANDLER AH-1) VOLTAGE, PHASE, WIRE (i.e. 480 VOLT, 3ø, 4W.) FEEDER SIZE (i.e. 4-#4/0 THWN CU IN 2" C.) SOURCE (i.e. SWITCHBOARD MSB) NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON RED FOR EMERGENCY EQUIPMENT.
16.22	GUARANTEE: THE COMPLETE ELECTRICAL SYSTEM, AND ALL PORTIONS THEREOF, SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF AT NO EXPENSE TO THE OWNER. LAMPS ARE EXEMPT FROM THIS GUARANTEE, BUT SHALL BE NEW AT TIME OF FINAL ACCEPTANCE.
16.23	COORDINATION: THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN AND INTERIOR DRAWINGS CONTAIN DETAIL DESCRIPTIONS, CIRCUITING AND CONNECTION REQUIREMENTS WHICH ARE PART OF DIVISION 16 RESPONSIBILITIES. ELECTRICAL CONTRACTOR SHOULD NOT SUBMIT BIDS ON THIS PROJECT BEFORE REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS AND ADDENDA.

MASTER SYMBOL LIST

SIGNAL OUTLETS

▼	TELEPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
▼	TELEPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, WALL MOUNT +54" AFF UON
▽	DATA: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
▼	VOICE/DATA: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
	TELEVISION: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
C	CAMERA: 4S BOX WITH SINGLE GANG MUD RING UON, CEILING MOUNTED UON
M	MICROPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
V	VOLUME CONTROL: 4S BOX WITH SINGLE GANG MUD RING UON, +48" TO TOP UON
S	SPEAKER: 8" COAXIAL WITH BACK BOX AND GRILLE, CEILING MOUNTED UON
	3/4"C (UON) STUB INTO ACCESSIBLE CEILING SPACE

SWITCHES

S	SINGLE POLE: 20A, 120/277V, +48" TO TOP UON
S_2	TWO POLE: 20A, 120/277V, +48" TO TOP UON
S_3	THREE WAY: 20A, 120/277V, +48" TO TOP UON
S_4	FOUR WAY: 20A, 120/277V, +48" TO TOP UON
S_X	X INDICATES EMERGENCY CIRCUIT
S_P	P INDICATES PILOT LIGHT (LIGHTED WHEN ON)
S_L	L INDICATES PILOT LOCATOR (LIGHTED WHEN OFF)
S_K	K INDICATES KEY OPERATED SWITCH
S_M	MANUAL MOTOR STARTER: 20A, 120/277V, POLES AND HEATERS AS REQUIRED
S_{MC}	MOMENTARY CONTACT: 20A, 120/277V, SPDT CENTER NORMALLY OFF UON, +48" TO TOP UON
D	DIMMER: 600 WATT UON, ELECTRONIC SLIDER, WITH ON/OFF TOGGLE, +48" TO TOP UON (PLANS SHALL INDICATE TYPE: FLUOR, INCAND OR LOW-VOLTAGE)
	MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR – WALL MOUNTED AT +48" TO TOP UON
360 / 180 / 90	ULTRASONIC MOTION/OCCUPANCY SENSOR SWITCH CEILING MOUNTED ARROWS INDICATE DIRECTION AND COVERAGE PROVIDE WITH POWER PACK PER MANUFACTURERS REQUIREMENTS
PE	PHOTO ELECTRIC SWITCH: 1600VA UON

METHODS

S_X	SHADING INDICATES: FIXTURE, OUTLET, EQUIPMENT, ETC. ON EMERGENCY 'X' OR NIGHT LIGHT 'NL' CIRCUIT
SS	DEVICE MOUNTED IN MULTIPLE UNDER COMMON COVER MAXIMUM HEIGHT ON WALL SHALL BE +48" TO TOP UON
	DEVICES MOUNTED IN OR ABOVE COUNTER/BACKSPLASH; MAXIMUM HEIGHT ON WALLS SHALL BE +48" TO TOP UON
	FLUSH FLOOR MOUNTED WIRING DEVICES
	FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI-COMPARTMENT BOX
	RECEPTACLE MOUNTED IN CEILING OR CASEWORK
	FINE DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED

DESIGNATIONS

f1	LIGHT FIXTURE: F1 = TYPE (SEE FIXTURE SCHEDULE)
2	SHEET NOTE
1	REVISION DELTA: NUMBER REPRESENTS REVISION
AC 1	MECHANICAL AND PLUMBING EQUIPMENT
A 5	MISCELLANEOUS: THESE AND OTHER SYMBOLS AS INDICATED IN TABLES AND SCHEDULES ON THE PLANS.

RECEPTACLES

	DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF
	DOUBLE DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF
	HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF (TOP HALF SWITCHED)
	DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5-20 GFR, +18" AFF
	DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20 IG +18" AFF (WHITE WITH ORANGE TRIANGLE, UON)
	DOUBLE DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20 IG +18" AFF (WHITE WITH ORANGE TRIANGLE, UON)
	SPECIAL RECEPTACLE – AS INDICATED ON PLANS, +18" AFF

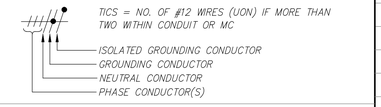
NOTE: DIAMOND SYMBOLS INDICATES DEDICATED CIRCUIT.

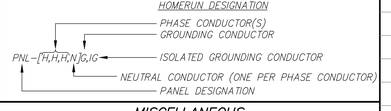
EQUIPMENT

	SWITCHBOARD
	PANELBOARD: SURFACE MOUNTED
	PANELBOARD: FLUSH MOUNTED
T	TRANSFORMER
	RELAY (120V COIL , STEP DN XFMR IF REQUIRED, UON)
	CONTACTOR (120V COIL, STEP DN XFMR IF REQUIRED, UON)
	COMBINATION MAGNETIC STARTER/FUSED DISCONNECT
	NON-FUSIBLE DISCONNECT SWITCH
F	FUSIBLE DISCONNECT SWITCH
	PULLBOX: SIZE AS REQUIRED BY NEC
J	JUNCTION BOX: SIZE AS REQUIRED BY NEC
	SURFACE RACEWAY WITH OR WITHOUT DEVICES
TP	TELEPOWER POLE

CIRCUITING

	CONDUIT IN WALL OR ABOVE CEILING
	CONDUIT IN FLOOR OR BELOW GRADE
	METAL CLAD CABLE (MC)
—OH—	OVERHEAD SERVICE
— P —	PRIMARY
— S —	SECONDARY
— T —	TELEPHONE
—TV—	TELEVISION
	LOW VOLTAGE AND/OR CONTROL CIRCUITNG
	EMERGENCY CIRCUIT
	STUB OUT: MARK AND CAP (SITE)
	CIRCUITING UP OR DOWN





MISCELLANEOUS

T	THERMOSTAT: AT +54" TO TOP UON (OR PER MECH PLANS)
F	EXHAUST FAN: FRACTIONAL HORSEPOWER
1	MOTOR: NUMBER = HORSEPOWER
SIGN	SIGNAGE CONNECTION
	SHUNT TRIP STATION: +7'-6" AFF, 12" RED TRIANGLE, UON
	CONTROL STATION: AT +48" TO TOP UON
a lo	DUAL LEVEL LIGHTING CONTROL SWITCH 'a' = CENTER (1) LAMP SWITCH 'b' = OUTER (2) LAMPS

NOTE:
THIS IS A MASTER SYMBOL LIST, ALL SYMBOLS SHOWN MAY NOT BE USED WITHIN THIS SET OF PLANS

ABBREVIATIONS

℄	CENTERLINE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AFC	ABOVE FINISH CEILING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CB	CIRCUIT BREAKER
CLG	CEILING
CIR	CIRCUIT
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
(E)	EXISTING TO REMAIN
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF SYSTEM
FBO	FURNISHED BY OTHERS
FPEN	FUSE PER EQUIPMENT NAMEPLATE
FLUOR	FLUORESCENT
FU	FUSE: DUAL-ELEMENT, TIME DELAY
GFI/GFCI	GROUND FAULT INTERRUPTER
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HID	HIGH INTENSITY DISCHARGE
IG	ISOLATED GROUND
INCAND	INCANDESCENT
K	kcmil (300K = 300 kcmil)
LTG	LIGHTING
LV	LOW VOLTAGE
MCP	MOTOR CIRCUIT PROTECTOR
MC	MULTI-CONDUCTOR CABLE
(N)	NEW
NC	NORMALLY CLOSED
NEUT	NEUTRAL
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	EXISTING TO BE RELOCATED
RAC	RIGID ALUMINUM CONDUIT
RSC	RIGID STEEL CONDUIT
SLD	SINGLE LINE DIAGRAM
SO	SEAL OFF
SPDT	SINGLE POLE DOUBLE THROW
SPEN	SIZE PER EQUIPMENT NAMEPLATE
SPST	SINGLE POLE SINGLE THROW
TEL	TELECOM
TYP	TYPICAL
UNSW	UNSWITCHED
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF (NEMA 3R)
WT	WATERTIGHT
(X)	EXISTING TO BE REMOVED
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

Professional Seal

Date	Revision

#14041

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SYMBOL LIST
AND SPECIFICATIONS

February 26, 2015
H+K Project No.: 1406

E001

E=EQUIPMENT, K=KITCHEN, L=LIGHTING, H=HEAT, M=MOTOR, M1=MOTOR (LARGEST), R=RECEPTS

LOCATION: **ELECTRICAL ROOM**

DF	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	DF
	LIGHTS 112, 113		20/1	1	0			2	20/1		LIGHTS 130, 129	
	LIGHTS 116, 117		20/1	3		0		4	20/1		LIGHTS 131	
	LIGHTS 118, 119		20/1	5			0	6	20/1		LIGHTS 105	
	LIGHTS 121, 122		20/1	7	0			8	20/1		LIGHTS 101	
	LIGHTS 104		20/1	9		0		10	20/1		LIGHTS 133, 134, 103	
	LIGHTS 104		20/1	11			0	12	20/1		LIGHTS 101	
	LIGHTS 123, 124		20/1	13	0			14	20/1		LIGHTS 139, 140	
	LIGHTS CORRIDOR		20/1	15		0		16	20/1		LIGHTS 135, 136	
	LIGHTS 135		20/1	17			0	18	20/1		LIGHTS 141, 142	
	LIGHTS 135		20/1	19	0			20	20/1		EXIT LIGHTS	
	TELEPHONE BOARD		20/1	21		0		22	20/1		RECEPTS. 100A, 135	
	CLERKS RECEPTACLES		20/1	23			0	24	20/1		RECEPTS. 135 COUNTER	
	JUDGE RECEPTACLES		20/1	25	0			26	20/1		RECEPTS. 135	
	VAULT		20/1	27		0		28	20/1		RECEPTS. 113, 112	
	JUDGES OFFICE DEPT. 1		20/1	29			0	30	20/1		RECEPTS. 110	
	LIGHTS 123, 124		20/1	31	0			32	20/1		RECEPTS. 105	
	LIGHTS 131		20/1	33		0		34	20/1		RECEPTS. 105	
R	SECURITY	1200	20/1	35			1200	36	20/1		RECEPTS. 142	
			30	37	0			38	20/1		MARSHALLS OFFICE	
	HEATER JUDGES OFFICE		-	39		1260		40	20/1	1260	SECURITY	R
			3	41			0	42	50/1		FRONT DESK PLUGS/UPS	
					0	1260	1200					

AMPS:	225	**NEUTRAL BUS:**	100%	**CON. KVA:**	2.5
VOLTAGE:	208	**GROUND BUS:**	STANDARD	**CON. AMPS:**	6.8
PHASE / WIRE:	3-PH , 4W	**AIC RATING:**		**NET KVA:**	2.5
MAIN:		**NEMA RATING:**	1	**NET AMPS:**	6.8
LUGS:	MLO	**PANEL**		**Notes:**	
MOUNTING:	FLUSH	**(E) A**		CHALLENGER PANELBOARD WITH	
BUS:	COPPER			SYLVANIA CIRCUIT BREAKERS	
DOOR:	STANDARD				

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.

TYPE	SYMBOL	SKETCH	DESCRIPTION AND MANUFACTURER
F1			FLUORESCENT 2'x2' 2-LAMP RECESSED LUMINAIRE, WHITE FINISH, FLUSH STEEL FRAME AND ELECTRONIC STEP DIMMING BALLAST. **MOUNTING HEIGHT:** RECESSED, T-BAR **LAMP:** (3) 17W T8 - 4100K **VOLTAGE:** 120V **MANUFACTURER:** LITHONIA: 2AV G 3 17 MDR MVOLT GEB95S **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
F1X			FLUORESCENT 2'x2' 2-LAMP RECESSED LUMINAIRE, WHITE FINISH, FLUSH STEEL FRAME, ELECTRONIC STEP DIMMING BALLAST AND 1400 LUMEN EMERGENCY BATTERY PACK. **MOUNTING HEIGHT:** RECESSED, T-BAR **LAMP:** (3) 17W T8 - 4100K **VOLTAGE:** 120V **MANUFACTURER:** LITHONIA: 2AV G 3 17 MDR MVOLT GEB 95S EL14 **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
F1X			FLUORESCENT 2'x4' 3-LAMP RECESSED LUMINAIRE, WHITE FINISH, FLUSH STEEL FRAME AND ELECTRONIC BALLAST. **MOUNTING HEIGHT:** RECESSED, T-BAR **LAMP:** (3) 32W T8 - 4100K **VOLTAGE:** 120V **MANUFACTURER:** LITHONIA: 2AV G 3 32 MDR MVOLT GEB10IS **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L1			6" RECESSED DOWNLIGHT WITH WHITE BAFFLE. PROVIDE WITH 6" RECESSED HOUSING, WHITE BAFFLE. **MOUNTING HEIGHT:** RECESSED **LAMP:** 8.9W, 620 LUMEN LED **VOLTAGE:** 120V **MANUFACTURER:** LITHONIA: 6BP MW HL LED LC6 **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L2			RECESSED LINEAR LED COVE LIGHT. **MOUNTING HEIGHT:** RECESSED **LAMP:** 3500K LED **VOLTAGE:** 120V **MANUFACTURER:** MARK ARCHITECTURAL LIGHTING: SPRL 11'-5" FL H 35 AD 120 FA **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L3			RECESSED LINEAR LED COVE LIGHT. **MOUNTING HEIGHT:** RECESSED **LAMP:** 3500K LED **VOLTAGE:** 120V **MANUFACTURER:** MARK ARCHITECTURAL LIGHTING: SPRL 9'-11" FL H 35 AD 120 FA **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
L4			RECESSED LINEAR LED COVE LIGHT. **MOUNTING HEIGHT:** RECESSED **LAMP:** 3500K LED **VOLTAGE:** 120V **MANUFACTURER:** MARK ARCHITECTURAL LIGHTING: SPRL 3'-2" FL H 35 AD 120 FA **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
X1			LED, COMBINATION EMERGENCY EGRESS FIXTURE AND EXIT SIGN WITH GREEN STENCIL LETTERS, INTEGRAL BATTERY AND CHARGER. **MOUNTING HEIGHT:** ABOVE DOOR **LAMP:** INCLUDED **VOLTAGE:** 120/277 **MANUFACTURER:** LITHONIA: LHQM S W 3 G 120/277 N **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
X2			EXTERIOR RATED EMERGENCY LIGHTING UNIT. WHITE HOUSING WITH DUAL HEADS. PROVIDE 90 MINUTE BATTERY PACK. **MOUNTING HEIGHT:** +/-8'-0" AFF **LAMP:** INCLUDED **VOLTAGE:** MVOLT **MANUFACTURER:** LITHONIA: AFNX SERIES **SUBSTITUTIONS:** ◉ OR EQUAL ○ SUBJECT TO REVIEW ○ NO EQUAL
X3			EXIT SIGN WITH WHITE HOUSING AND GREEN LED LETTERING. PROVIDE 90 MINUTE BATTERY PACK. **MOUNTING HEIGHT:** ABOVE DOOR/CEILING **LAMP:** INCLUDED **VOLTAGE:** MVOLT **MANUFACTURER:** LITHONIA: LQM SERIES **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
X4			EXIT SIGN WITH WHITE HOUSING AND GREEN LED LETTERING. PROVIDE 90 MINUTE BATTERY PACK. **MOUNTING HEIGHT:** ABOVE DOOR/CEILING **LAMP:** INCLUDED **VOLTAGE:** MVOLT **MANUFACTURER:** LITHONIA: LQM SERIES **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
X5			EMERGENCY LIGHTING UNIT WITH DUAL HEADS AND 90 MINUTE BATTERY PACK. **MOUNTING HEIGHT:** +/-7'-6" AFF **LAMP:** INCLUDED **VOLTAGE:** MVOLT **MANUFACTURER:** LITHONIA: ELM2 SERIES **SUBSTITUTIONS:** ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL

COMcheck Software Version 3.9.2

Interior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **Alteration**
Project Title : Sparks Municipal Court

Construction Site:
1450 C Street
Sparks, NV 89431

Owner/Agent:

Designer/Contractor:
JP Engineering, LLC
15097 Double R Blvd.
Reno, NV 89521
775-852-2337

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Lobby (Court House)	2172	1.2	2606
		Total Allowed Watts =	2606

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Lobby (Court House 2172 sq.ft.)				
Linear Fluorescent 1: F1: See Fixture Schedule: 24" T8 17W: Electronic:	3	17	54	918
Linear Fluorescent 2: F1X: See Fixture Schedule: 24" T8 17W: Electronic:	3	7	54	378
Linear Fluorescent 3: F2: See Fixture Schedule: 48" T8 32W: Electronic:	3	1	95	95
LED 1: L1: See Fixture Schedule: LED PAR 8W:	1	15	8	120
LED 2: L2: See Fixture Schedule: LED Linear 15W:	1	1	15	15
LED 3: L3: See Fixture Schedule: LED Linear 15W:	1	1	15	15
LED 4: L4: See Fixture Schedule: LED Linear 15W:	1	1	15	15
		Total Proposed Watts =		1556

Section 4: Requirements Checklist

Interior Lighting PASSES

Lighting Wattage:

❑ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
2606	1556	Passes

Controls, Switching, and Wiring:

❑ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

❑ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

❑ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

❑ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

❑ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

❑ Areas designated as security or emergency areas that must be continuously illuminated.

❑ Lighting in stairways or corridors that are elements of the means of egress.

❑ 5. Master switch at entry to hotel/motel guest room.

❑ 6. Individual dwelling units separately metered.

❑ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

❑ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

❑ Only one luminaire in space.

❑ An occupant-sensing device controls the area.

❑ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

❑ Areas that use less than 0.6 Watts/sq.ft.

❑ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

❑ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

❑ 10. Photocell/astronomical time switch on exterior lights.

Exceptions:

❑ Lighting intended for 24 hour use.

❑ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

❑ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting alteration project has been designed to meet the 2009 IECC, Chapter 8, requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

James Solaro, PE
Name - Title

Signature

8/15/14
Date

Professional Seal

Date	Revision

#14041

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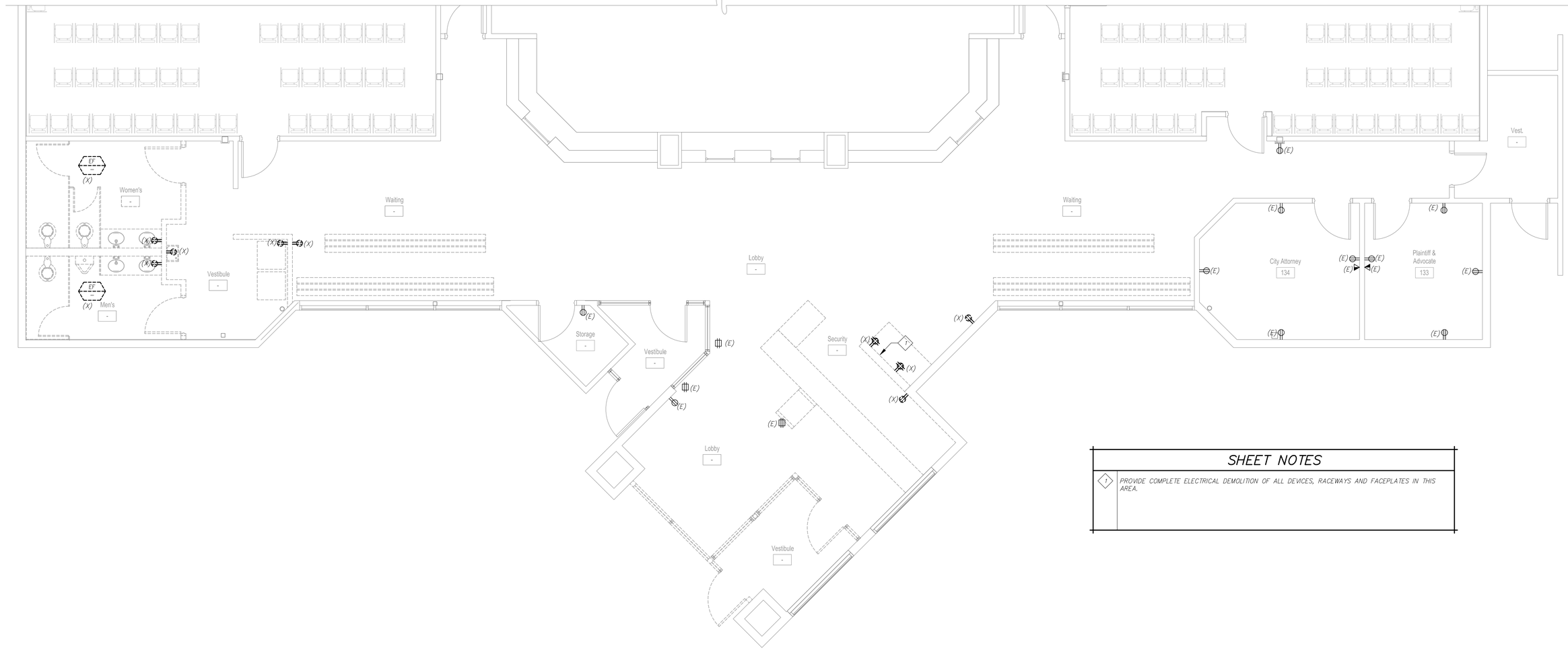
Sparks Municipal Court
Restroom, Office, and Lobby Renovation

City of Sparks
1450 C Street
Sparks, Nevada 89431

ELECTRICAL SCHEDULES AND LIGHTING COMPLIANCE

February 26, 2015
H+K Project No.: 1406

E002



SHEET NOTES

1. PROVIDE COMPLETE ELECTRICAL DEMOLITION OF ALL DEVICES, RACEWAYS AND FACEPLATES IN THIS AREA.

A E101 **POWER DEMOLITION PLAN**

SCALE: 1/4" = 1'-0"

Professional Seal

Date	Revision

#14041

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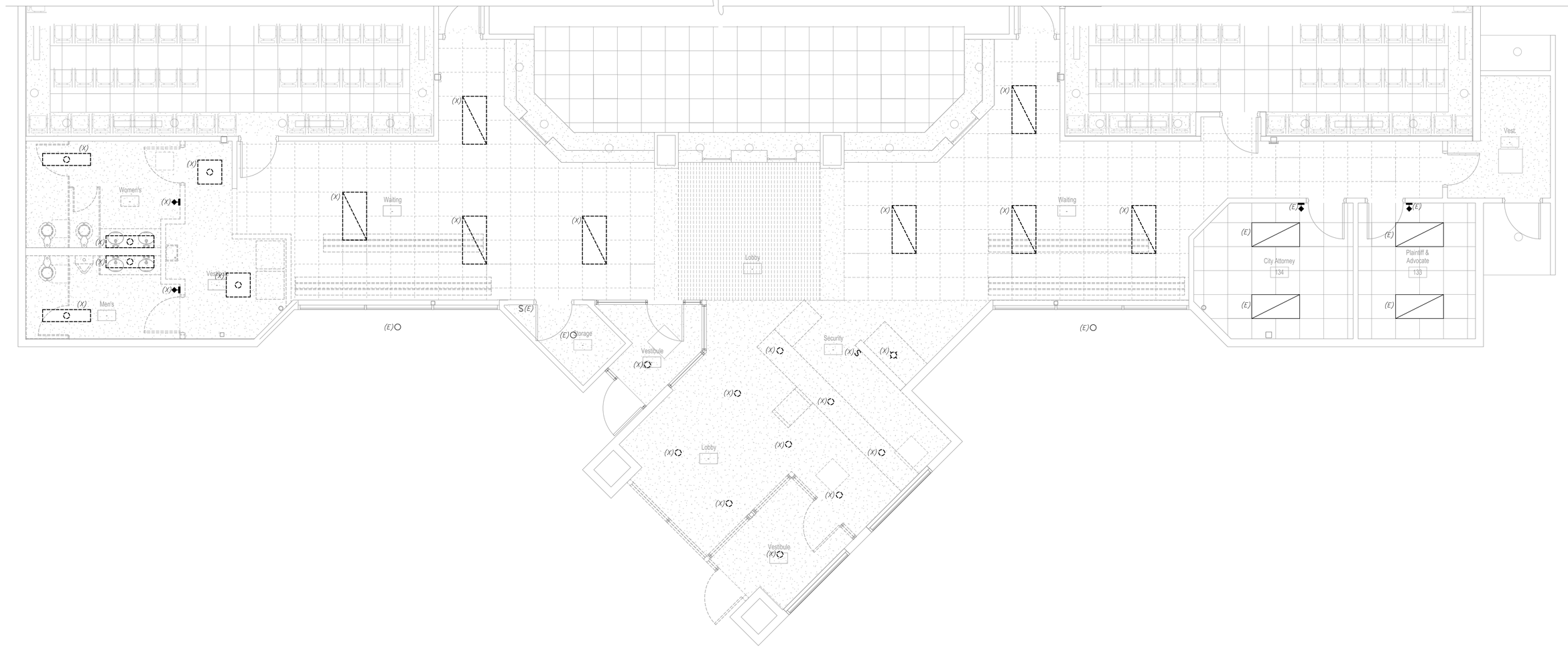
ELECTRICAL
DEMOLITION PLAN

February 26, 2015
H+K Project No.: 1406

E101



A | E102

LIGHTING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

Professional Seal

Date	Revision

#14041

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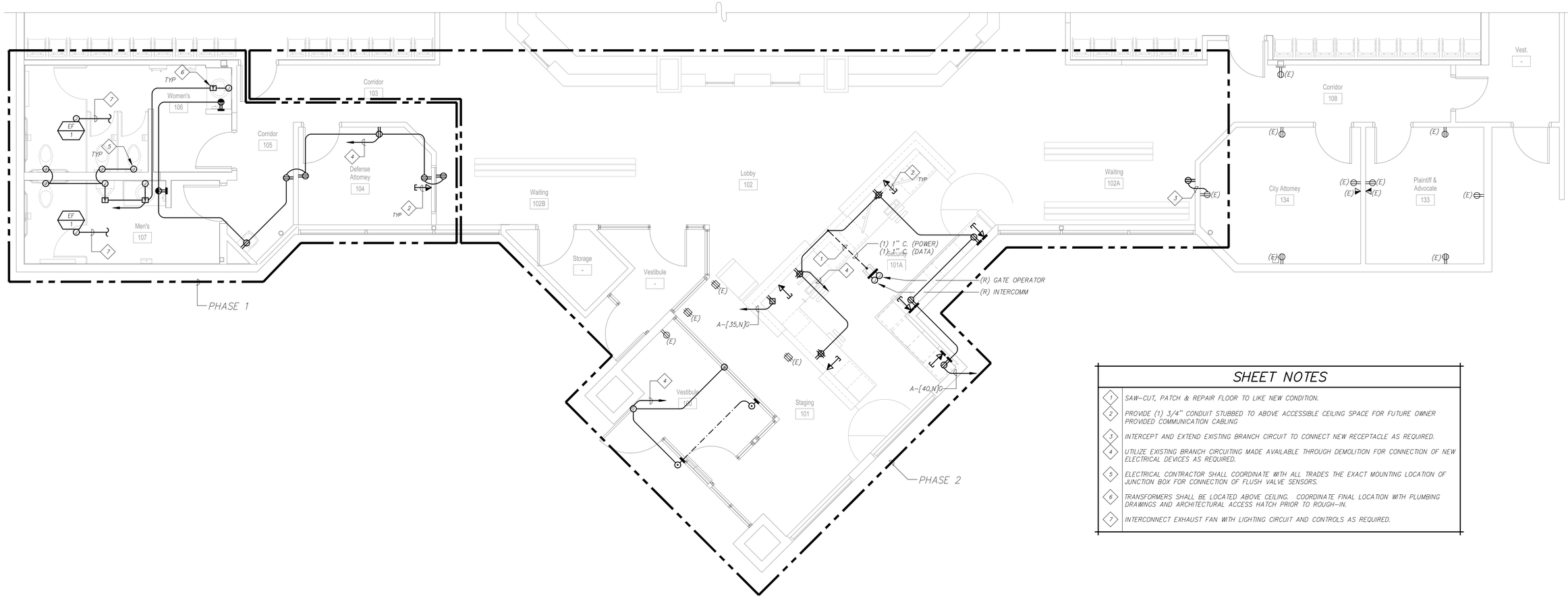
LIGHTING
DEMOLITION PLAN

February 26, 2015
H+K Project No.: 1406

E102



SHEET NOTES

1. SAW-CUT, PATCH & REPAIR FLOOR TO LIKE NEW CONDITION.
2. PROVIDE (1) 3/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING SPACE FOR FUTURE OWNER PROVIDED COMMUNICATION CABLING
3. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT TO CONNECT NEW RECEPTACLE AS REQUIRED.
4. UTILIZE EXISTING BRANCH CIRCUITING MADE AVAILABLE THROUGH DEMOLITION FOR CONNECTION OF NEW ELECTRICAL DEVICES AS REQUIRED.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES THE EXACT MOUNTING LOCATION OF JUNCTION BOX FOR CONNECTION OF FLUSH VALVE SENSORS.
6. TRANSFORMERS SHALL BE LOCATED ABOVE CEILING. COORDINATE FINAL LOCATION WITH PLUMBING DRAWINGS AND ARCHITECTURAL ACCESS HATCH PRIOR TO ROUGH-IN.
7. INTERCONNECT EXHAUST FAN WITH LIGHTING CIRCUIT AND CONTROLS AS REQUIRED.

A | E201 — POWER AND SIGNAL PLAN
SCALE: 1/4" = 1'-0"

Professional Seal

Date	Revision

#14041

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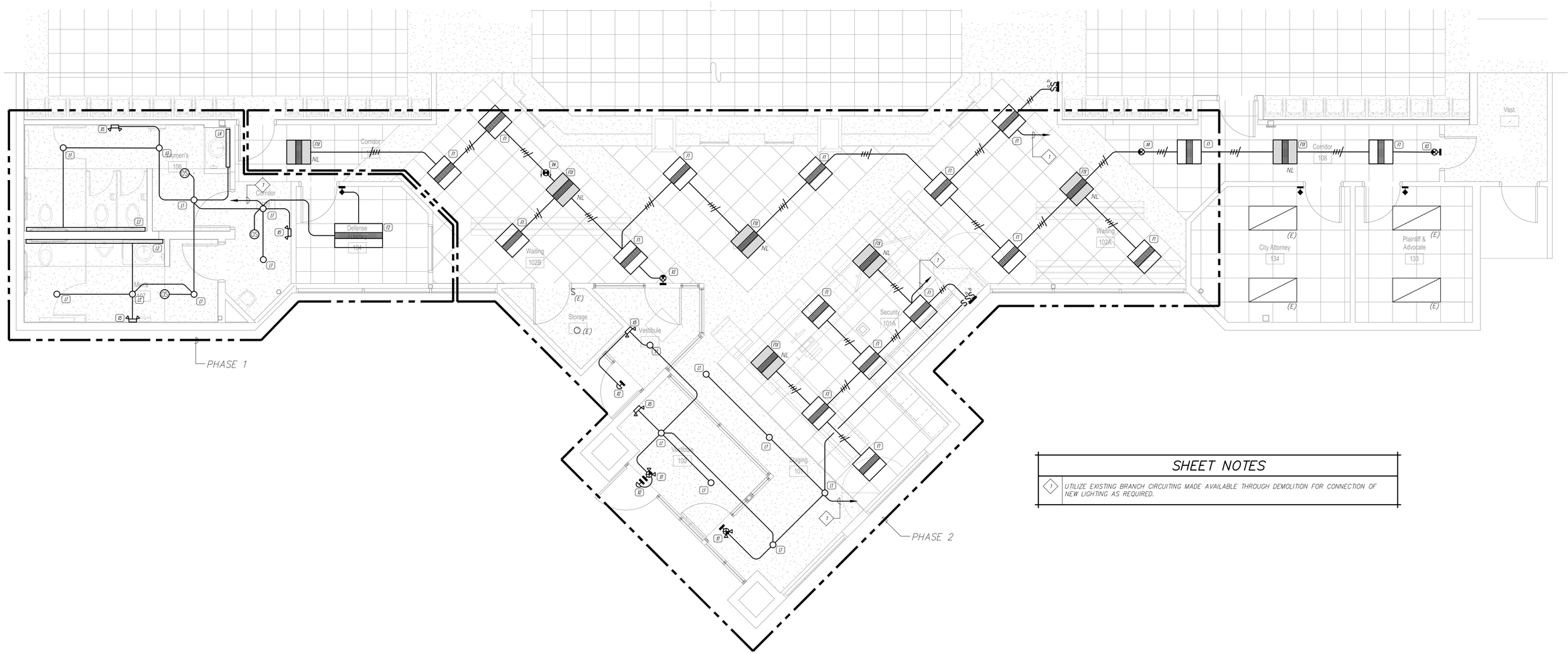
POWER AND SIGNAL PLAN

February 26, 2015
H+K Project No.: 1406

E201



SHEET NOTES

1. UTILIZE EXISTING BRANCH CIRCUITING MADE AVAILABLE THROUGH DEMOLITION FOR CONNECTION OF NEW LIGHTING AS REQUIRED.

A | E301

LIGHTING PLAN

SCALE: 1/4" = 1'-0"

Professional Seal

Date	Revision

#14041

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LIGHTING PLAN

February 26, 2015
H+K Project No.: 1406

E301