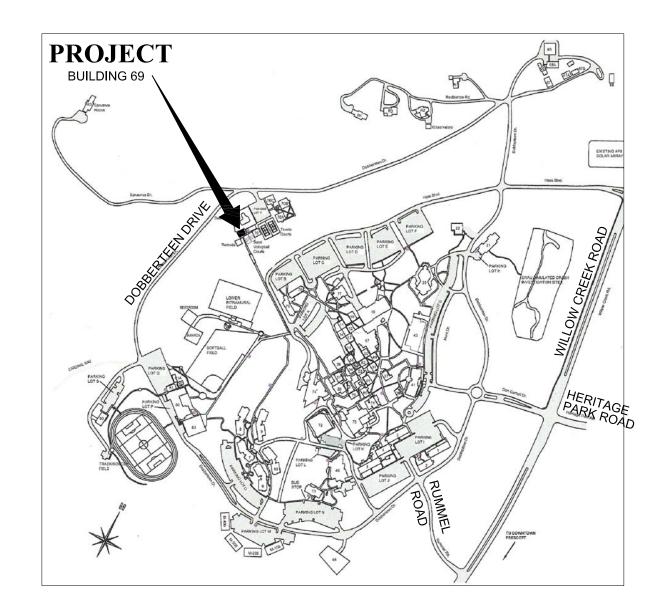
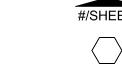
Moject Description Caphic Standards

Embry-Riddle Aeronautical University intends to renovate the restrooms / locker room in existing building 69. All existing fixtures will be removed. The restroom will be renovated to comply with ADA, adding new ADA compliant water closet stalls and shower stalls. The men's and women's restrooms will be reversed having the men's restroom on the West side (plan) and the Women's restroom on the East side (plan). A new ceiling and lighting will also be added. A new rooftop HVAC unit will be installed.

State / Vicinity Map





DETAIL DESIGNATOR

BUILDING SECTION DESIGNATOR

TYPICALLY INDICATES

TYPICALLY INDICATES

EXISTING DOOR & FRAME

BE REMOVED

TO REMAIN

EXISTING DOOR & FRAME TO

NORTH ARROW INDICATOR

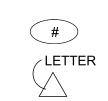
NUMBER -



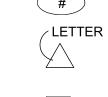
DESCRIPTIVE NOTE DESIGNATOR

ROOM NUMBER / FINISH DESIGNATOR

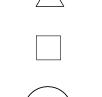
ELEVATION DESIGNATOR



DOOR NUMBER DESIGNATOR



REVISION DESIGNATOR



GRID LINE DESIGNATOR

WINDOW TYPE DESIGNATOR

DOOR TYPE DESIGNATOR

TYPICALLY INDICATES PROPOSED DOOR & FRAME - REFER TO DOOR SCHEDULE

EVERY-RIDDLE

RESTROOM REMODEL BUILDING 69

Roject Information Seet Index

OWNER:

Embry-Riddle Aeronautical University PH: 928-777-6600 3700 Willow Creek Road Prescott, AZ 86301

FAX: 928-777-3950 CONTACT: Carl Beumer beumerc@erau.edu PH: 928-443-5812

FAX: 928-443-5815

waka@cableone.net

CONTACT: Alan Kenson

PREPARED BY:

CONTRACTOR:

SCOPE OF WORK:

W. Alan Kenson & Associates, P.C. P.O. Box 11593 Prescott, AZ 86304

To Be Determined Restroom / Locker Room Renovation

PROJECT ADDRESS: 3700 Willow Creek Road (Building 69) Prescott, AZ 86301 (APN: 106-03-004)

ZONE: BG - PAD

OCCUPANCY:

B (Educational Facility for students above the 12th grade), Non-Separated

CONSTRUCTION TYPE: V-B Non Sprinklered **BUILDING AREA** 1,300 SQUARE FEET

ARCHITECTURAL

CS Cover Sheet

A0.0 Construction Access Plan

A1.0 Demolition plan and Reference / Dimension / Wall Types plan

A2.0 Demolition & Proposed Reflected Ceiling plan and Building Section

A3.0 Interior Elevations, Schedules

A4.0 Door Schedule & Details and Roof Plan

A5.0 Specifications

and Finish Plan

M1.1 Mechanical Plans

MECHANICAL

M2.1 Mechanical Schedules and Details

PLUMBING

P1.1 Plumbing Demolition Plan and Floor Plan

P2.1 Plumbing Schedules and Details

ELECTRICAL

E1.1 Lighting and Power Demo Floor Plan, Symbols, One-Line Diagram, Panel Schedules & Notes

E1.2 Lighting & Power Floor Plan, Specifications, fixture Schedule and Notes

Architect:

W. Alan Kenson & Associates, P.C.

P 928-443-5812 F 928-443-5815 P.O. Box 11593 Prescott, AZ 86304

email: waka@cableone.net www.kenson-associates.com

ARCHITECTURE & PLANNING



REVISIONS

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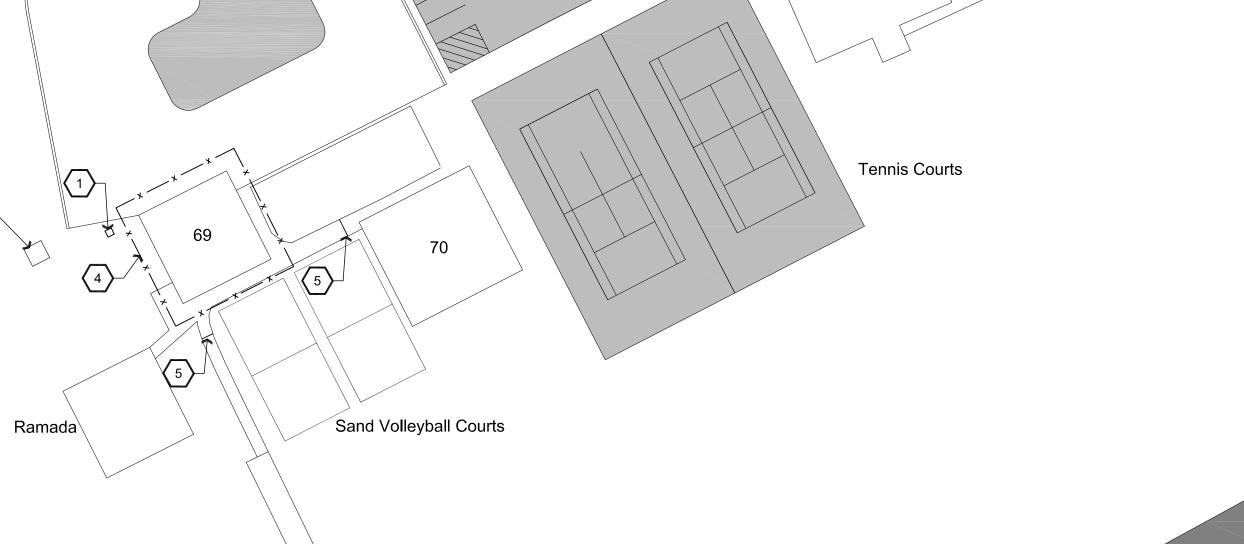
LOCATION FOR J-JON.
 LOCATION OF 6 YARD TRASH DUMPSTER PROVIDED BY

3. CONTRACTOR PARKING AREA. 7 SPACES AVAILABLE. CONTRACTOR TO PROVIDE SIGNAGE DESIGNATING SPACES FOR CONSTRUCTION PARKING.

4. 6' TALL TEMPORARY CHAIN LINK FENCING BY CONTRACTOR.

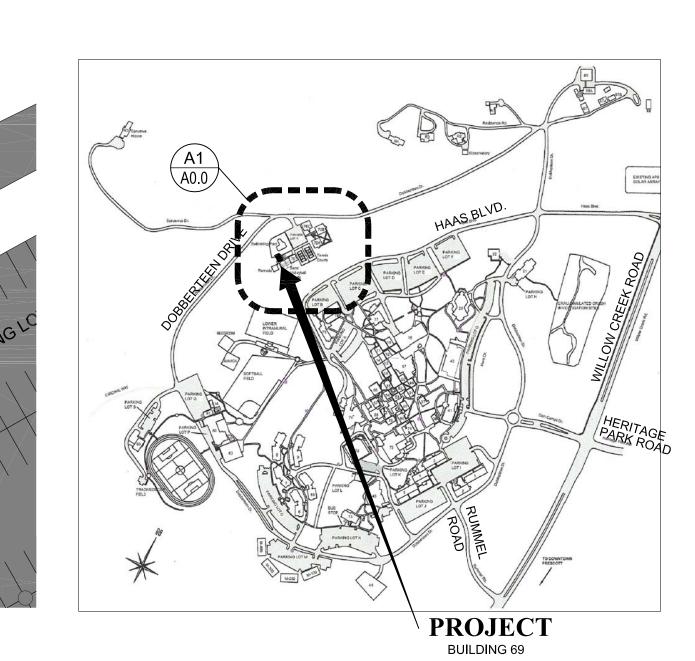
5. PROVIDE SIGNAGE AND BARRICADES FOR SIDEWALK CLOSURE.

Dobberteen Dr. 70C PARKING LOT R Swimming Pool



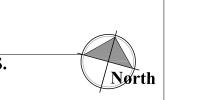
70B

70A



B Vicinity Map

Scale: N.T.S.





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Construction Access Plan

PLUMBING PLANS.

TYPICALLY INDICATES EXISTING WALL TO BE REMOVED. TYPICALLY INDICATES EXISTING DOOR AND FRAME TO BE

- REMOVED.

 3. TYPICALLY INDICATES PLUMBING FIXTURES, TOILET PARTITIONS, FLOOR DRAIN, ACCESSORIES, ETC. TO BE
- REMOVED. REFER TO PLUMBING PLANS.

 4. REMOVE EXISTING BASEBOARD HEATERS, TYPICAL, REFER TO MECHANICAL PLANS.
- 5. REMOVE LOCKERS AND BENCHES, RETURN TO OWNER FOR RE-USE.
- 6. REMOVE PORTION OF EXTERIOR MASONRY WALL FOR NEW DOOR LOCATION.
- 7. SAWCUT AND REMOVE CONCRETE FLOOR TO ACCOMMODATE PLUMBING WASTE LINE AND SHOWER PAN. REFER TO PLUMBING PLANS.
- 8. REMOVE PORTION OF CMU AS REQUIRED TO ACCOMMODATE DOOR OPENING.
- 9. RELOCATE EMERGENCY TELEPHONE, REFER TO ELECTRIC PLANS.
- 10. REMOVE PORTION OF EXTERIOR MASONRY WALL.11. EXISTING FLOOR DRAIN TO BE ABANDONED, REFER TO
- 12. REMOVE PORTION OF PLUMBING WALLS AS REQUIRED FOR REMOVAL OF CONCRETE. PROVIDE SUPPORT FOR ROOF STRUCTURE AS REQUIRED DURING REMOVAL.

Wall Types Legend

EXTERIOR / INTERIOR CMU WALL
CONSTRUCTION: EXISTING CMU WALL
WITH 2-1/2" 20 GAUGE METAL STUDS AT
1'-4" O.C. WITH 5/8" GPDW AT
LOCATIONS WITHOUT PORCELAIN TILE,
AND 5/8" DENSSHIELD AT LOCATIONS
WITH PORCELAIN TILE ON INTERIOR
SIDE. PROVIDE R-8 UNFACED BATT

INSULATION IN WALL CAVITY.

B EXISTING: 8" WIDE CMU WALL.

INTERIOR PARTITION WALL
CONSTRUCTION: 3-5/8" 20 GAUGE
METAL STUDS AT 1'-4" O.C. WITH 5/8"
GPDW AT LOCATIONS WITHOUT
PORCELAIN TILE, AND 5/8" DENSSHIELD
AT LOCATIONS WITH PORCELAIN TILE.

INTERIOR PLUMBING WALL:
6" 20 GAUGE METAL STUDS AT 1'-4" O.C.
WITH 5/8" GPDW AT LOCATIONS
WITHOUT PORCELAIN TILE, AND 5/8"
DENSSHIELD AT LOCATIONS WITH
PORCELAIN TILE.

E INTERIOR BEARING / PLUMBING WALLS: 2x4 WOOD STUDS @ 1'-4" O.C. WITH 5/8" DENSSHIELD ON EXPOSED SIDES.

Discriptive Keynotes \bigcirc

Reference Floor Plan

- EXISTING STORAGE SHED TO REMAIN..
 EXISTING LANDSCAPE TIMER, REFER TO ELECTRICAL
- 3. 4x3 DOWNSPOUT, REFER TO ROOF PLAN.
- 4. EXISTING FLOOR DRAIN TO REMAIN, REFER TO PLUMBING
- 5. PROVIDE WOOD STUD WALLS, REFER TO WALL TYPES.6. EXISTING GAS METER.
- 7. EXISTING ELECTRIC SERVICE ENTRANCE SECTION TO REMAIN REFER TO ELECTRICAL PLANS
- REMAIN. REFER TO ELECTRICAL PLANS.

 8. EXISTING LANDSCAPE IRRIGATION SYSTEM BACKFLOW
- PREVENTION DEVICE.

 9. EXISTING CONCRETE SIDEWALK TO REMAIN.
- 10. FILL IN OPENING WITH 'TOOTHED IN' CMU TO MATCH EXISTING. SOLID GROUT WITH #4 VERTICALS @ 1'-4" O.C. EPOXIED INTO SLAB.
- 11. TYPICALLY INDICATES PROPOSED METAL STUD
 PARTITION WALL. REFER TO WALL TYPES LEGEND.
- 12. LOCKERS TO BE PROVIDED BY OWNER.
- 13. BENCHES TO BE PROVIDED BY OWNER.14. INSTALL NEW DOOR AND HOLLOW METAL FRAME, REFER
- TO DOOR SCHEDULE, TYPICAL.
- 15. PROVIDE 1-1/2" DIAMETER GRAB BARS PER A.D.A. REQUIREMENTS, 42" LONG AT SIDE OF WATER CLOSET / 36" LONG AT REAR OF WATER CLOSET, PROVIDE SOLID

- BLOCKING, REFER TO TOILET ACCESSORY SCHEDULE.

 16. PROVIDE WALL HUNG WATER CLOSET, TYPICAL, REFER TO PLUMBING DRAWINGS.
- 17. PROVIDE WALL HUNG URINAL, REFER TO PLUMBING PLANS.
- 18. PROVIDE SELF-RIMMING LAVATORY IN SOLID SURFACE COUNTER TOP. REFER TO PLUMBING DRAWINGS.
- 19. PROVIDE ACCESSIBILITY SIGNAGE MOUNTED PER A.D.A. REQUIREMENTS.
- 20. PROVIDE HEAD RAIL-BRACED METAL TOILET PARTITION.
- 21. PROVIDE 4" THICK CONCRETE SIDEWALK W/ #3 @ 3'-0"
 O.C. EACH WAY OVER 4" A.B.C. PROVIDE 8" TURNDOWN
- 22. PROVIDE ADA COMPLIANT BABY CHANGING TABLE, INSTALL PER MANUFACTURER INSTRUCTIONS, PROVIDE SOLID BLOCKING.
- 23. PROVIDE A.D.A ACCESSIBLE ELECTRIC DRINKING
 FOUNTAIN, MAXIMUM HEIGHT OF SPOUT OUTLET TO BE
 36" FROM ELOOR, REFER TO PLUMBING PLANS
- 36" FROM FLOOR. REFER TO PLUMBING PLANS.
 24. PAPER TOWEL DISPENSER SUPPLIED BY OWNER,
 INSTALLED BY CONTRACTOR.
- 25. PROVIDE 1-1/2" DIAMETER GRAB BARS PER A.D.A. REQUIREMENTS, 24" LONG AT SIDE OF SHOWER ENCLOSURE / 30" LONG AT BACK OF SHOWER
- ENCLOSURE, REFER TO TOILET ACCESSORY SCHEDULE.

 26. PROVIDE FOLDING SHOWER SEAT VERIFY CLEARANCE

- WITH GRAB BAR, REFER TO TOILET ACCESSORY SCHEDULE.
- 27. PROVIDE SHOWER CURB REFER TO DETAIL C1 / A3.0.
 28. PROVIDE SHOWER TRANSITION REFER TO DETAIL D1 /
- A3.0.

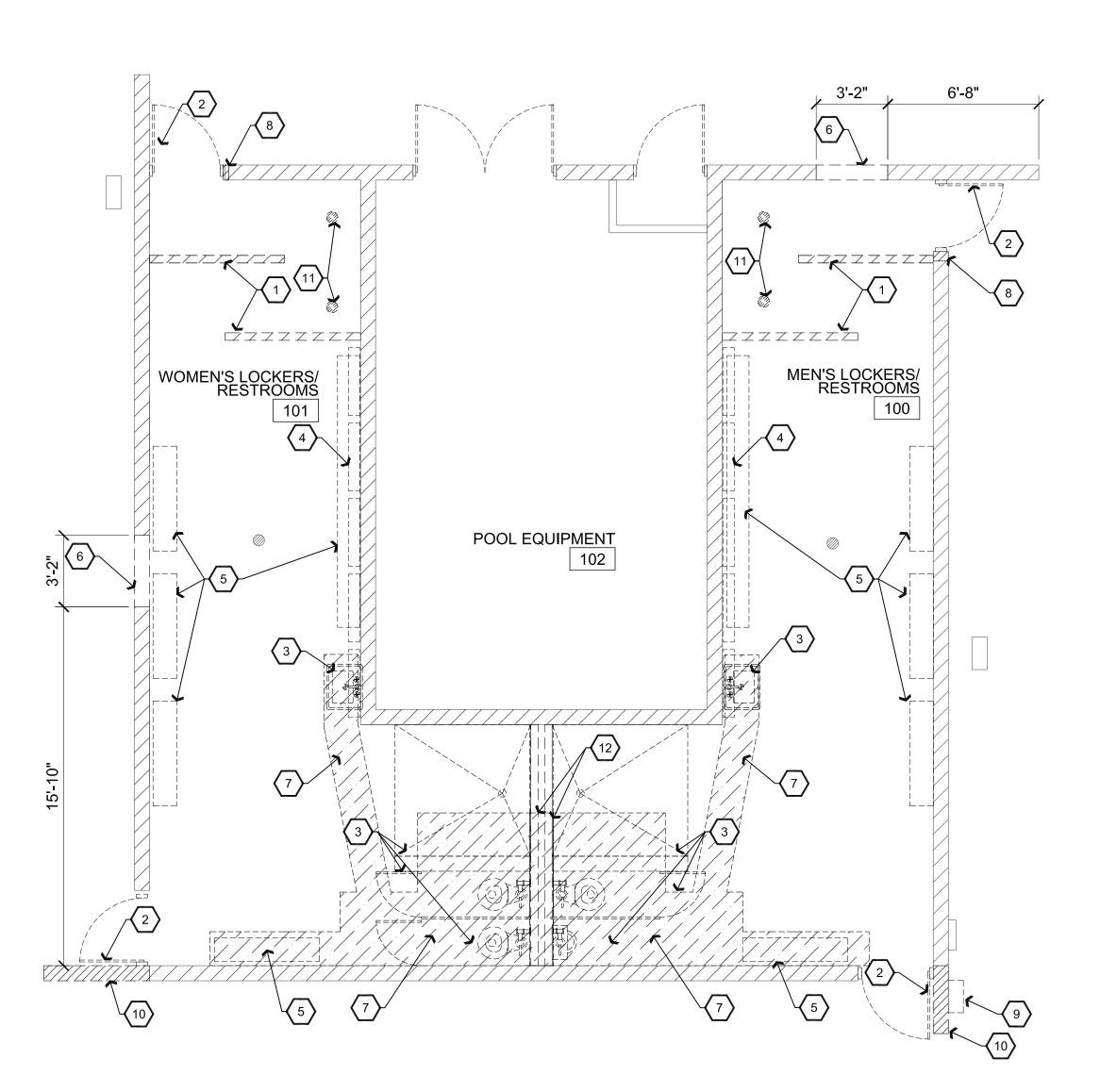
 29. PROVIDE SHOWER TRANSITION REPER TO DETAIL DT/

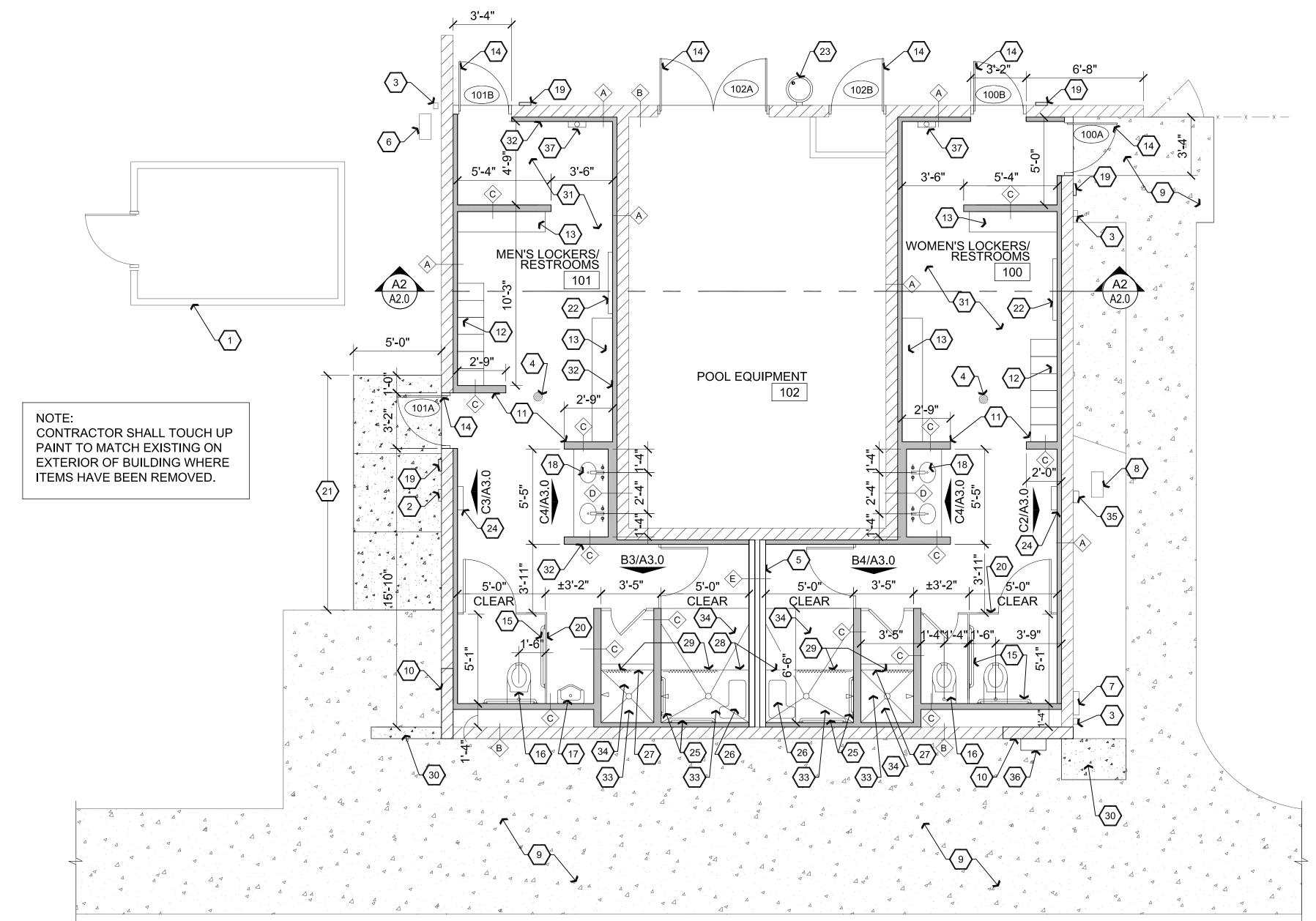
 A3.1.
- ACCESSORY SCHEDULE.

 30. PATCH AND REPAIR CONCRETE AS REQUIRED TO MATCH EXISTING CONCRETE SIDEWALK WHERE CMU WALL WAS
- 31. INSTALLATION METHOD FOR PORCELAIN FLOOR TILE TO BE IN ACCORDANCE WITH TCNA METHOD F205-16. EXISTING CONCRETE FLOOR IS SLOPED IN SOME AREAS AND REQUIRES SOME LEVELING.
- 32. INSTALLATION METHOD FOR PORCELAIN WALL TILE TO BE IN ACCORDANCE WITH TCNA METHOD W245-16.
- 33. INSTALLATION METHOD FOR PORCELAIN SHOWER TILE
- TO BE IN ACCORDANCE WITH TCNA METHOD B420-16.

 34. PROVIDE NEW 4" THICK CONCRETE FLOOR IN SHOWER AREAS RECESSED 2-1/2" BELOW EXISTING AND NEW
- CONCRETE FLOOR.

 35. RELOCATED LANDSCAPE IRRIGATION TIMER BY OWNER.
- 36. RELOCATED EMERGENCY TELEPHONE.
- 37. PROVIDE TYPE 2A10BC FIRE EXTINGUISHER IN SURFACE MOUNTED WALL CABINET.









B Reference / Dimension / Wall Types Plan



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P 928-443-5812 P.O. Box 11593

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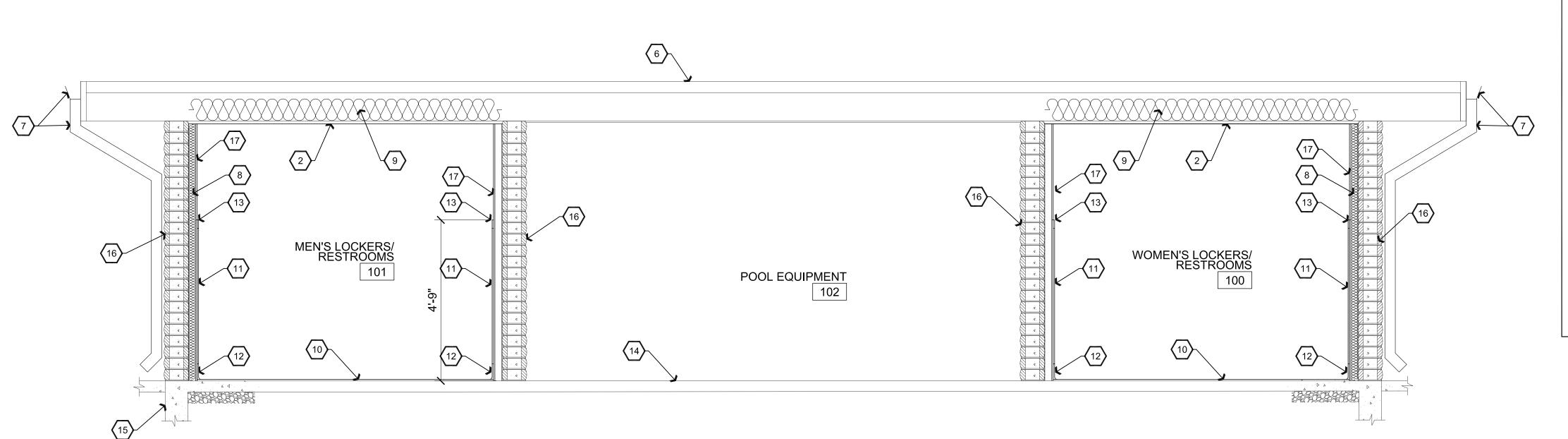
rence / Dimension / Wall Types Floor U Building 69 Remodel

ROJECT: ERAU BI

DRAWN BY
L.O.
CHECKED BY
W.A.K.

February 13th, 2017

A1.0



Discriptive Keynotes \bigcirc

1. LIGHT FIXTURE(S) SHOWN FOR QUANTITY AND LOCATION ONLY. REFER TO ELECTRICAL PLANS.

2. PROVIDE 5/8" GPDW CEILING.

3. EXISTING EXPOSED ROOF FRAMING.

4. REMOVE LIGHT FIXTURE AND ASSOCIATED WIRING, TYPICAL. 5. REMOVE EXHAUST FAN AND ASSOCIATED DUCTWORK, TYPICAL.

6. EXISTING ROOF.

REMOVE AND REPLACE EXISTING ROOF GUTTER AND DOWNSPOUTS, REFER TO ROOF PLAN.

8. PROVIDE R-8 BATT INSULATION. 9. PROVIDE R-30 BATT INSULATION ABOVE CEILING.

10. PROVIDE 2x2 FLOOR TILE. CT-1

11. PROVIDE 12" X 24" WALL TILE OVER 5/8" DENSSHIELD. CT-4

12. PROVIDE 6" X 12" COVE BASE TILE. CT-2

13. PROVIDE 3" BULLNOSE TILE. CT-3

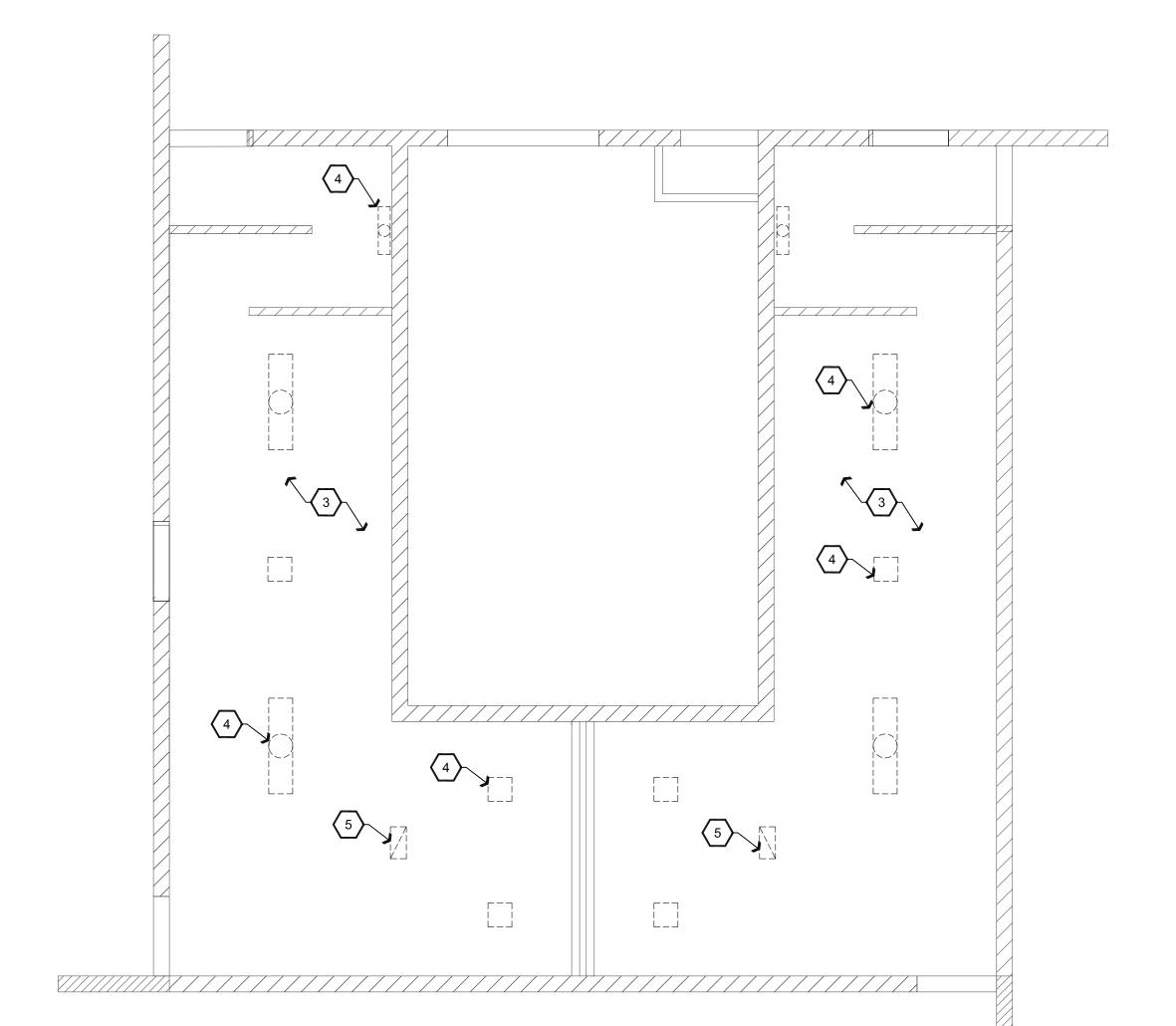
14. EXISTING CONCRETE SLAB.

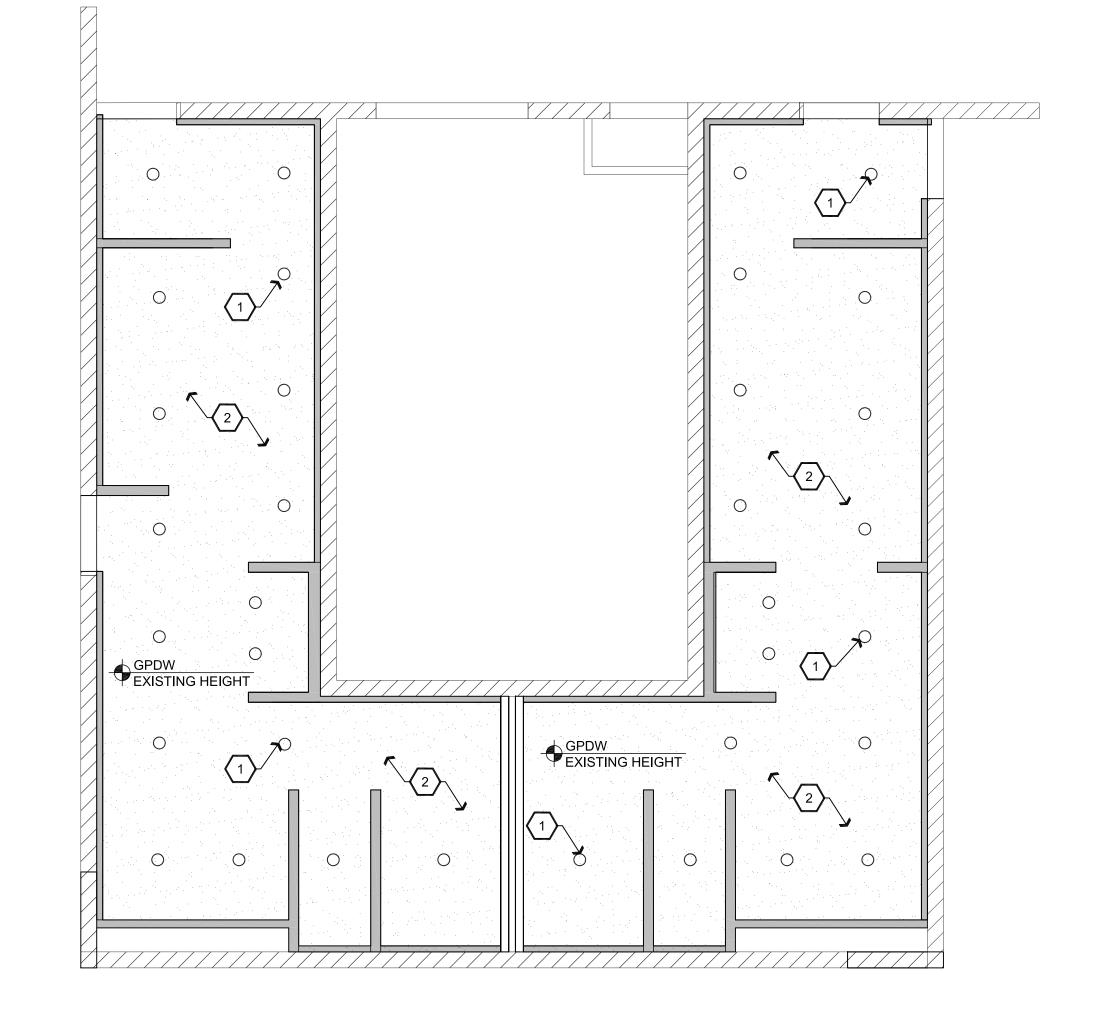
15. EXISTING CONCRETE FOUNDATION.

16. EXISTING CMU WALL.

17. PROVIDE 5/8" TYPE X GPDW.

A2 Building Section





B Reflected Ceiling Plan

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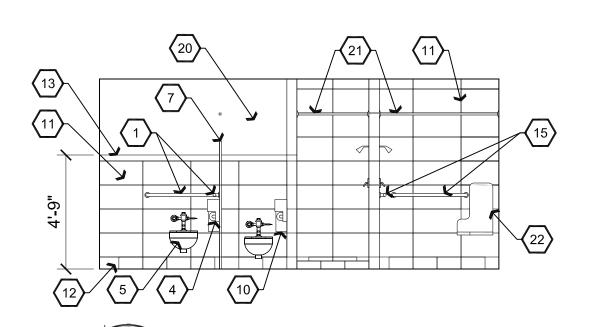
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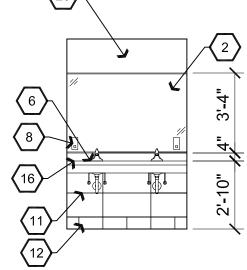
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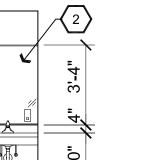
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Demolition Reflected Ceiling Plan

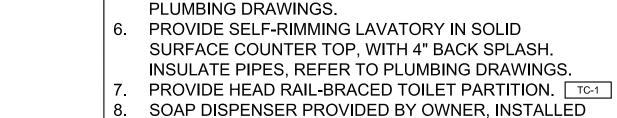


Scale: 1/4"=1'-0"











PLANS.

10. SANITARY NAPKIN DISPOSAL PROVIDED BY OWNER,

INSTALLED BY CONTRACTOR.

11. PROVIDE 12" X 24" WALL TILE. CT-4 12. PROVIDE 6" X 12" COVE BASE TILE. CT-2

Descriptive Keynotes

PROVIDE SOLID BLOCKING.

INSTALLED BY CONTRACTOR.

INSTALLED BY CONTRACTOR.

ABOVE VANITY TOP.

PROVIDE 1-1/2" DIAMETER GRAB BARS PER A.D.A.

REQUIREMENTS, 42" LONG AT SIDE OF WATER

CLOSET / 36" LONG AT REAR OF WATER CLOSET.

PAPER TOWEL DISPENSER PROVIDED BY OWNER,

PROVIDE WALL HUNG WATER CLOSET, REFER TO

4. TOILET PAPER HOLDER PROVIDED BY OWNER,

PROVIDE 1/4" PLATE MIRROR FULL LENGTH OF WALL

13. PROVIDE 3" BULLNOSE TILE. CT-3

14. MODIFY TILE AT PAPER TOWEL DISPENSER LOCATION, SO THE ENTIRE PAPER TOWEL DISPENSER IS FLUSH WITH THE TILE.

15. PROVIDE 1-1/2" DIAMETER GRAB BARS PER A.D.A. REQUIREMENTS, 24" LONG AT SIDE OF SHOWER ENCLOSURE / 30" LONG AT BACK OF SHOWER ENCLOSURE, REFER TO TOILET ACCESSORY SCHEDULE. PROVIDE SOLID BLOCKING.

16. PROVIDE SOLID SURFACE COUNTERTOP WITH 4" BACKSPLASH. SS-1

17. THICK SET CERAMIC TILE OVER PAN, MAXIMUM SLOPE 1:50.

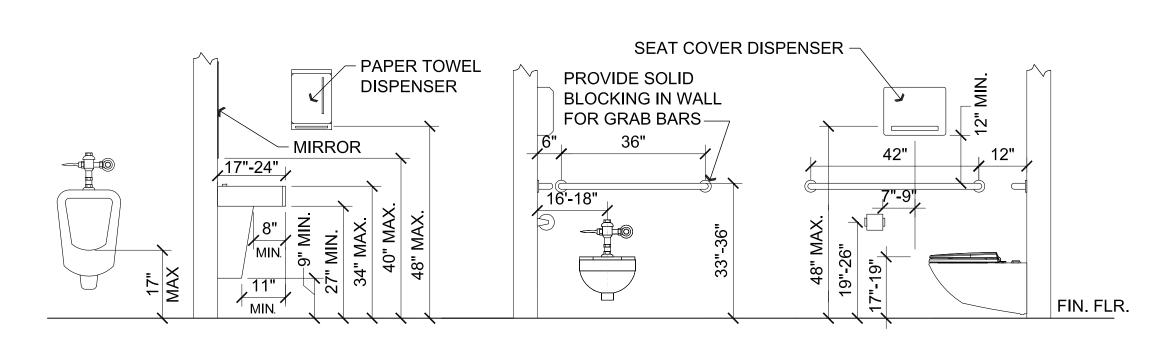
18. CONCRETE SLAB.

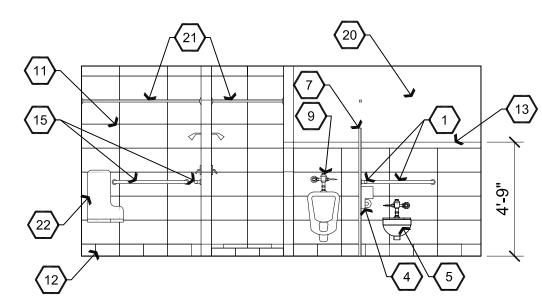
19. PRE-MANUFACTURED FLOOR CURB.

20. PAINTED GPDW.

21. PROVIDE SHOWER ROD AND CURTAIN, REFER TO TOILET ACCESSORY SCHEDULE

22. PROVIDE FOLDING SHOWER SEAT, REFER TO TOILET ACCESSORY SCHEDULE.

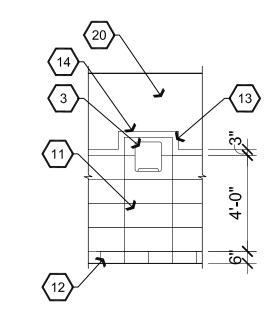




Scale: 1/4"=1'-0"

	Typical Fixture	Mounting Heights fo	r ADA Sca	ale: 1/2'
Mete	rials and Finish Sch	edule (interior and ex	kterior)	
CODE	MATERIAL	LOCATION	MANUFACTURER	SF
		RESTROOM FLOORS		2x
CT-1	CERAMIC TILE		DALTILE	MI
CT-2	CERAMIC TILE COVE BASE	RESTROOM WALLS	DALTILE	6x

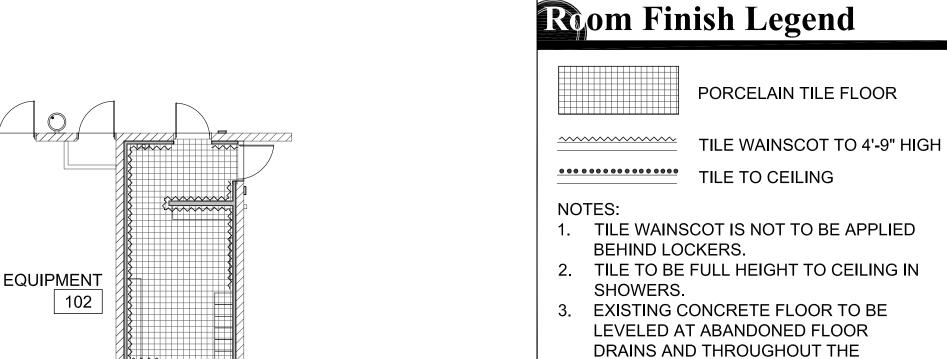
V ete	riais and Finish Schedu	<u>ie (interior and exterio</u>	<u> (r) </u>	
CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
		RESTROOM FLOORS		2x2, FABRIQUE, GRIS LINEN P690, 1/4 TURN, TCNA INSTALLATION
CT-1	CERAMIC TILE		DALTILE	METHOD F205-16 IN RESTROOMS AND B420-16 IN SHOWER
CT-2	CERAMIC TILE COVE BASE	RESTROOM WALLS	DALTILE	6x12 COVE BASE, HAUT MONDE, ELITE GREY HM05 LIGHT POLISHED
CT-3	CERAMIC TILE BULLNOSE	RESTROOM WALLS	DALTILE	3x12, BULLNOSE, HAUT MONDE, ELITE GREY HM05 LIGHT POLISHED
CT-4	CERAMIC WALL TILE	RESTROOM WALLS	DALTILE	12x24, HAUT MONDE, ELITE GREY HM05 LIGHT POLISHED, TCNA
				INSTALLATION METHOD W245-16 AND B420-16 IN SHOWER
T-5	CERAMIC OUTSIDE CORNER WALL TILE	RESTROOM WALLS	DALTILE	1x6, COVE BASE OUTCORNER, HAUT MONDE, ELITE GREY HM05 LIGHT
				POLISHED
3R-1	EPOXY GROUT	WALLS AND FLOORS	CUSTOM	NEW TAUPE #185
PT-1	PAINT	INTERIOR CEILINGS & WALLS ABOVE TILE	SHERWIN WILLIAMS	PACER WHITE SW6098
T-3	PAINT	EXTERIOR TRIM	SHERWIN WILLIAMS	PORTABELLO SW6102 (MATCH EXISTING)
PT-4	PAINT	EXTERIOR OF EXTERIOR DOOR & FRAME	SHERWIN WILLIAMS	PROTÉGÉ BRONZE SW6153
PT-5	PAINT	INTERIOR OF EXTERIOR DOOR & FRAME	SHERWIN WILLIAMS	PACER WHITE SW6098
SS-1	SOLID SURFACE	RESTROOM COUNTERTOPS	LG SURFACES	HI-MACS G042 VENETIAN SAND
TC-1	POWDER COATED STEEL TOILET PARTITIONS	RESTROOMS	METPAR	PLATINUM 715



West Elevation (101)

| Scale: 1/4"=1'-0"





ENTIRE ROOM.

F1 PORCELAIN TILE CT-1

B1 CERAMIC TILE CT-2 CT-5

F2 EXISTING CONCRETE

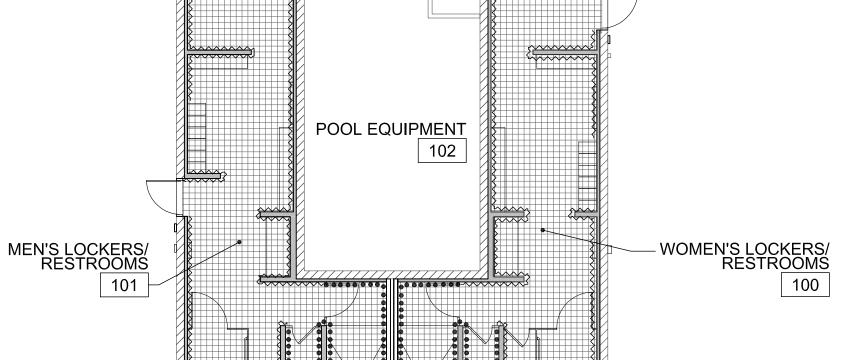
B2 EXISTING

FLOOR:

Ro	om Finish Sc	hedul	e			
NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT
100	WOMEN'S RESTROOM	F1	B1	W1/W2	C1	±7'-8"
	MENIC DECEDOOM	F1	D1	W1/W2	C1	±7'-8"
101	MEN'S RESTROOM	[]	B1	VV 1/VVZ	01	±1 -0

W2 PAINTED GPDW PT-1 W3 EXISTING CMU

C2 EXISTING



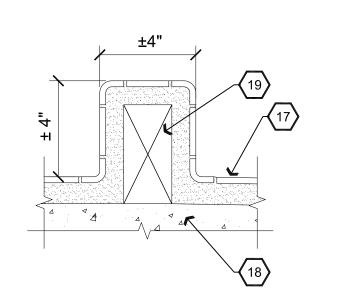


WALLS:

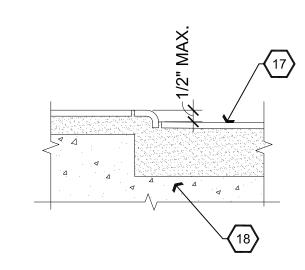
W1 CERAMIC TILE CT-2 CT-3 CT-4 CT-5

CEILING:

C1 PAINTED GPDW PT-1









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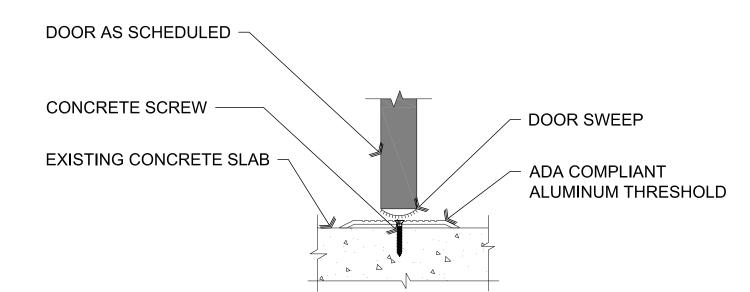
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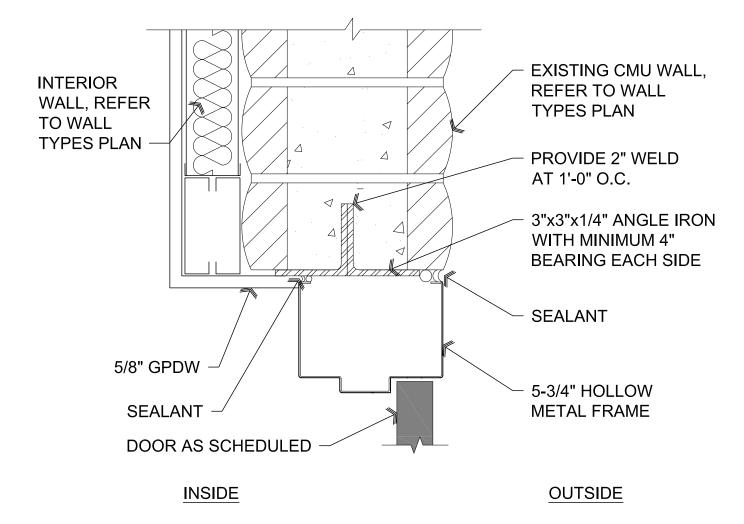
W. Alan Kenson & Associates, P.C.

DRAWN BY L.O. CHECKED BY W.A.K. February 13th, 2017



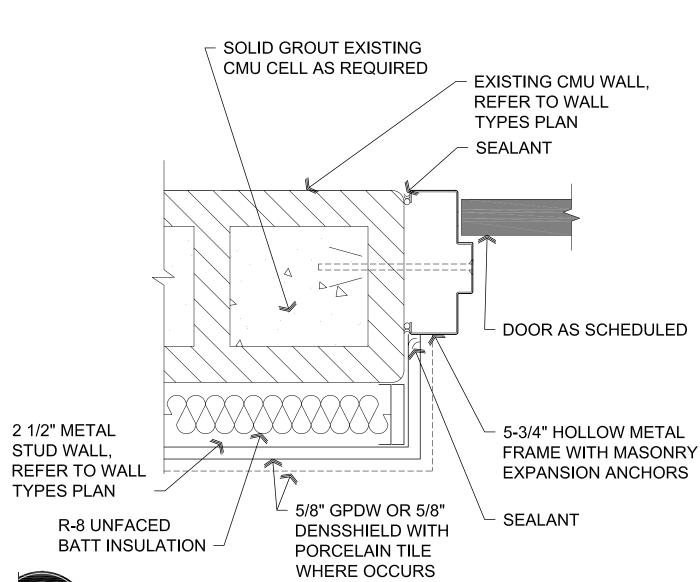
A Door Head

SCALE: 3'' = 1'-0''



Door Head at CMU Wall

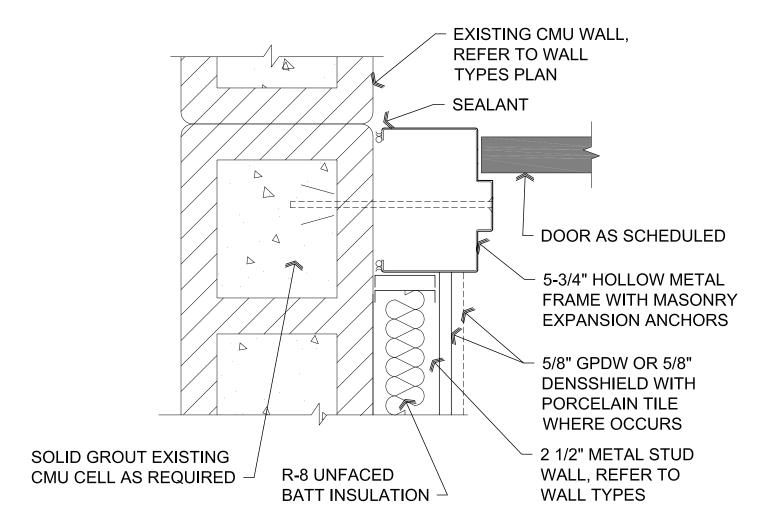
Door Jamb at CMU Wall



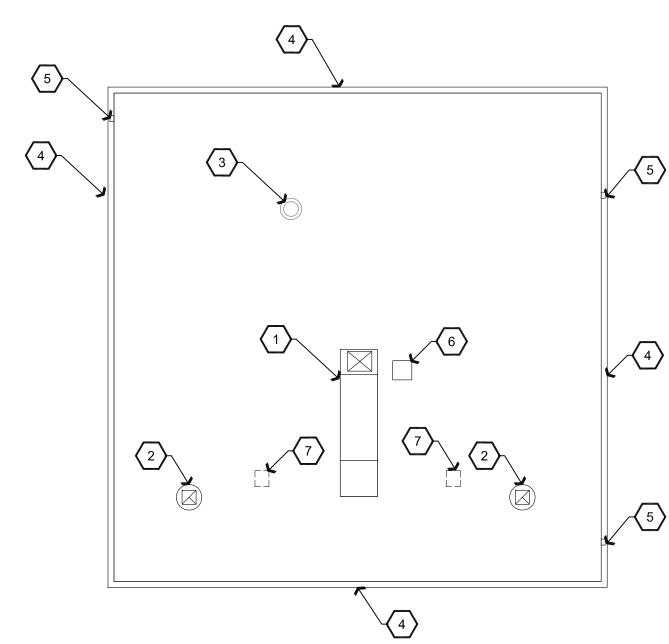
 $SCA\overline{LE}$: 3" = 1'-0"

B2 Door Jamb at CMU Wall

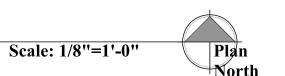
B Door Sill



SCALE: 3" = 1'-0"







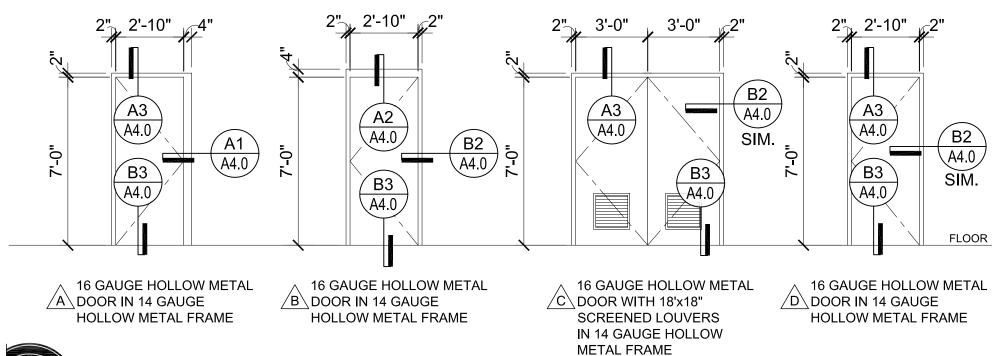
Descriptive Keynotes \bigcirc INSTALL ROOF CURB AT NEW MECHANICAL UNIT. REFER TO MECHANICAL PLANS. REPAIR ROOF AS REQUIRED. 2. INSTALL NEW EXHAUST FAN AND ROOF CURB. REFER TO MECHANICAL PLANS. REPAIR ROOF AS REQUIRED. 3. EXISTING BOILER FLUE. 4. REMOVE AND REPLACE EXISTING GUTTER WITH NEW 6" GALVALUME GUTTER FROM 'ARIZONA SEAMLESS GUTTERS' 5. REMOVE AND REPLACE ALL EXISTING DOWNSPOUTS WITH NEW 3"x4" GALVALUME DOWNSPOUTS FROM 'ARIZONA SEAMLESS GUTTERS'. 6. EXISTING ROOF VENT. 7. REPAIR ROOF AS REQUIRED WHERE EXHAUST FAN WAS REMOVED. **EXISTING ROOF STRUCTURE IS ADEQUATE TO** SUPPORT NEW HVAC UNITS. ALL ROOF PENETRATIONS WILL BE MADE BY A CERTIFIED TREMCO ROOF INSTALLER. NO OTHER CONTRACTOR OR ROOFING SYSTEM IS ACCEPTABLE. PROVIDE TREMCO APPROVED ROOF JACK TO ROOFING CONTRACTOR FOR INSTALLATION. CONTACT TREMCO ROOFING REPRESENTATIVE: JESSE HARNESS CELL 602-469-7663

EMAIL: JHARNESS@TREMCOINC.COM

Door Schedule MATERIA **ROOM NAME FINISH MATERIA** FINISH **TYPE** WOMEN 2'-10"x7'-0" PAINT PAINT НМ 100B WOMEN PAINT 2'-10"x7'-0" PAINT 101A MEN 2'-10"x7'-0" PAINT PAINT 01 101B MEN 2'-10"x7'-0" НМ PAINT PAINT POOL (2) 3'-0"x7'-0" **EQUIPMENT** PAINT 102A PAINT 102B ELECTRIC 2'-10"x7'-0" D НМ PAINT HM PAINT 03

NOTES:

- 1. ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2012 I.B.C.
- 2. DOOR THRESHOLDS SHALL HAVE A MAX HEIGHT OF 1/2" FOR H.C. ACCESSIBILITY. THRESHOLD SHALL HAVE A MAXIMUM RISE OF 1/4" AND 1/2" RISE WHEN BEVELED WITH MAXIMUM 1:2 SLOPE
- ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
- 4. ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
- 5. ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
- 6. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
- 7. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. HARDWARE REQUIRED FOR DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
- 8. DOOR OPENING FORCE SHALL BE: 5lbf MAX INTERIOR HINGED, SLIDING OR FOLDING DOORS; FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.



Door & Frame Types

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



Single Opening 2-10 x 7-0 x 1-3/4 HMD x HMF	Heading # 1 SGL 1 SGL 1 SGL 1 SGL	HW-01 Door 100A Door 100B Door 101A Door 101B	Exterior From Women's 100 Exterior From Women's 100 Exterior From Men's 101 Exterior From Men's 101	RHR RHR LHR RHR	90 Deg 90 Deg 90 Deg 90 Deg
1 EA. Core By Owner 626 Best 1 EA. Closer 4040XP H Cush 689 LCN 1 EA. Push Plate 8200 4" x 16" 630 Ives 1 EA. Pull Plate 8302G – 8" 4" x 16" 630 Ives 1 EA. Kick Plate 8400 10"x 34" 630 Ives 1 EA. Weather-strip 303AS 36" x 84" Alum Pemko 1 EA. Door Sweep 315CN – 36" Alum Pemko 1 EA. Threshold 171A – 36" MS/ES Alum Pemko Heading # HW-02 1 PR Door 102A Exterior From Pool Equip. RHRA 90 Deg Paired Opening 6-0 x 7-0 x 1-3/4 HMD x HMF Each Door To Receive: Each FBB168 4-1/2 x 4-1/2 NRP 652 Stanley 6 EA. Hinge FBB168 4-1/2 x 4-1/2 NRP 652 Stanley 1 EA. Core By Owner 626 Best 2 EA. Closer 4040XP H Cush 689 LCN </td <td>Each Door 3 EA.</td> <td>To Receive: Hinge</td> <td>FBB168 4-1/2 x 4-1/2 NRP</td> <td></td> <td>•</td>	Each Door 3 EA.	To Receive: Hinge	FBB168 4-1/2 x 4-1/2 NRP		•
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REVISIONS

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W. Alan Kenson & Associates, P.C

L.O. CHECKED BY W.A.K. February 13th, 2017

Material

01 70 00 - EXECUTION REQUIREMENTS Contractor shall field verify all existing conditions and lay out all of the work prior to starting construction on any part of the work. As a minimum contractor shall verify: - all dimensions, both horizontal and vertical - Utility locations, buried and overhead existing conditions affecting this project Conflicts If Contractor discovers an existing condition which differs from that shown (or is not shown), Cutting and Demolition In all cases, exercise extreme care in cutting operations and perform such operations under adequate supervision by competent mechanics to avoid unnecessary damage. careless and/or avoidable cutting damage, etc. will not be tolerated and the contractor will be held Patching and Refinishing the work shall be performed by experienced so replaced, etc. will, upon completion of the work, match the surrounding similar surfaces. Walls - paint all affected walls, interior and Locations frame, paint the entire wall to match existing) Gypsum wall board ceilings - Paint the entire ceiling of the room affected. (e.g. if anything is the ceiling of that room) Roofs - Replace portion of roof covering as still in effect, Contractor issuing warranty shall perform the required work. All patching and refinishing will be performed in a manner such obvious where an item was removed from, or added to. Disposal useless with removal of the item noted. Unless specifically noted otherwise, materials shall become the property of the contractor and shall be removed from the site in a legal and safe manner. Patch and repair all adjacent surfaces such that at the completion of the work, it shall or added to. Final appearance shall be totally acceptable to the owner. Contractor shall provide and maintain his own trash receptacles, unless specifically directed otherwise. All surplus materials become the property of the contractor. Remove all trash, rubbish and surplus materials from the site and dispose of in a legal and safe manner. As-Builts at the job site that is specifically set aside for recording: the drawings and the work installed. construction Exact measurements of all buried and/or walls etc.) All recordings shall be neat and legible. Stamp a minimum, the name, address and telephone number of the General Contractor and all major sub-contractors. (e.g. electrical, HVAC, etc.) At the completion of the project as prerequisite for final payment, Contractor shall turn these as-builts over to the owner. Final Cleaning any refuse created in the scope of work. 03 - CONCRETE in this paragraph. 03 30 00 CAST-IN-PLACE-CONCRETE The Contractor warrants that unless otherwise specified, all materials and equipment shall be Mix Design new, free from defects, suitable for the intended in Summer as produced by Hanson products. purpose, and in conformance with laws in effect Curing compound provided on all slabs per ACI on the date of this agreement.

06 40 00 - ARCHITECTURAL WOODWORK General Contractor shall immediately notify the Architect. skilled in the applicable trade. Openings shall be neatly cut and shall be kept as small as possible responsible for such avoidable or willful damage. All replacing, patching and repairing of materials and surfaces cut or damaged in the execution of mechanics of the specific trades involved. Such repairing and/or patching shall be done with the applicable materials in a manner that all surfaces exterior from corner to corner. (e.g. if you install a door in an existing frame, you need only to paint the door and frame, but if you install a door and installed in/on/through the ceiling of a room, paint required to flash new assembly. If roof warranty is that at the completion of the work, it shall not be Remove all materials noted on the drawings and all miscellaneous materials which will be rendered not be obvious where an item was removed from Contractor shall maintain a clean set of drawings - all differences between the work as shown on - All work added or deleted during the course of concealed work (e.g. conduit below slab, conduit and data cable below raised platforms, conduit in this set of drawings 'As-Built drawings' and list as After the construction of each phase and before occupancy, thoroughly clean the space by dusting the sills, washing windows, vacuuming the carpet and replace all HVAC filters. Clean site areas of Concrete Mix # 160X109 in Winter and #160X149 and ASTM specifications.

Restroom counter tops for lavatories will be Custom Casework composite material open on bottom with self-rimming sinks. Sheet mirror mounted full length of wall above top. Top manufacturer to cut lavatory openings in top to dimensions supplied by the plumber. Refer to materials & finish schedule for finishes. 08 - OPENINGS 08 11 00 - METAL DOORS AND FRAMES General Provide hollow metal doors and frames as shown on the drawings per steel door institute standards. 08 70 00 - HARDWARE General Refer to hardware schedule. 09 - FINISHES 09 29 00 - GYPSUM BOARD General Installation and application of materials to be in accordance with the latest printed instructions of the U.S. gypsum company or approved equal. After finishing, make joints invisible. No gaps or voids between gypsum board units or between drywall and adjacent work unless otherwise detailed. Not more than 1/8" in 10'-0" deviation from true plane, plumb and level in finished work. ASTM C 36; regular types except where special Gypsum Board types are required. Minimum 5/8" thick. Texture: Light Hawk and Trowel. 5/8" thick DensShield - Install In accordance with DensShield ASTM C840, manufacturer's recommendations and TCNA Handbook for Ceramic Tile Installation. 09 30 00 - TILE Install ceramic tile as indicated on the drawings General and in strict accordance with manufacturer's recommended instructions and the TCNA 09 90 00 - PAINTING General Painting products shall be specified from Sherwin Restrooms, doors, and door trim shall be Semi-gloss. All wet areas to have semi-gloss mildew resistant Scope of Work Items included, but not limited to interior conditions: 1. Refer to materials and finish schedule. New drywall partitions and ceilings. 3. Hollow metal doors and hm frames. 4. Access doors and panels, electric panels, exposed cable trays, miscellaneous trim and surfaces not prefinished or excluded specifically. Number of Coats Number of coats listed below are minimum number. Apply as many coats as necessary to obtain full coverage and uniform appearance. Paint Schedule Interior drywall 1 coat B28W02600 - ProMar® 200 Zero VOC Interior Latex Primer White 2 coats K46W00151 - Pro Industrial PreCatalyzed Waterbased Semi-Gloss Epoxy Extra White Gypsum ceilings 1 coat B28W02600 - ProMar® 200 Zero VOC Interior Latex Primer White 2 coats K46W00151 - Pro Industrial PreCatalyzed Waterbased Semi-Gloss Epoxy Extra White Hollow metal doors, finish - semi gloss Frames and other ferrous materials 1 coat B66W00310 - Pro Industrial Pro-Cryl® Universal Acrylic Primer Off White 2nd-3rd coats K46W00151 - Pro Industrial PreCatalyzed Waterbased Semi-Gloss Epoxy Extra White Refer to materials and finish schedule for color and location.

06 - WOOD, PLASTICS, COMPOSITES

The installation of all architectural woodwork and

casework shall comply with premium grade per

natural stone, engineered stone, recycled glass

AWI specifications. This section also includes

and all materials associated with millwork.

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REVISIONS

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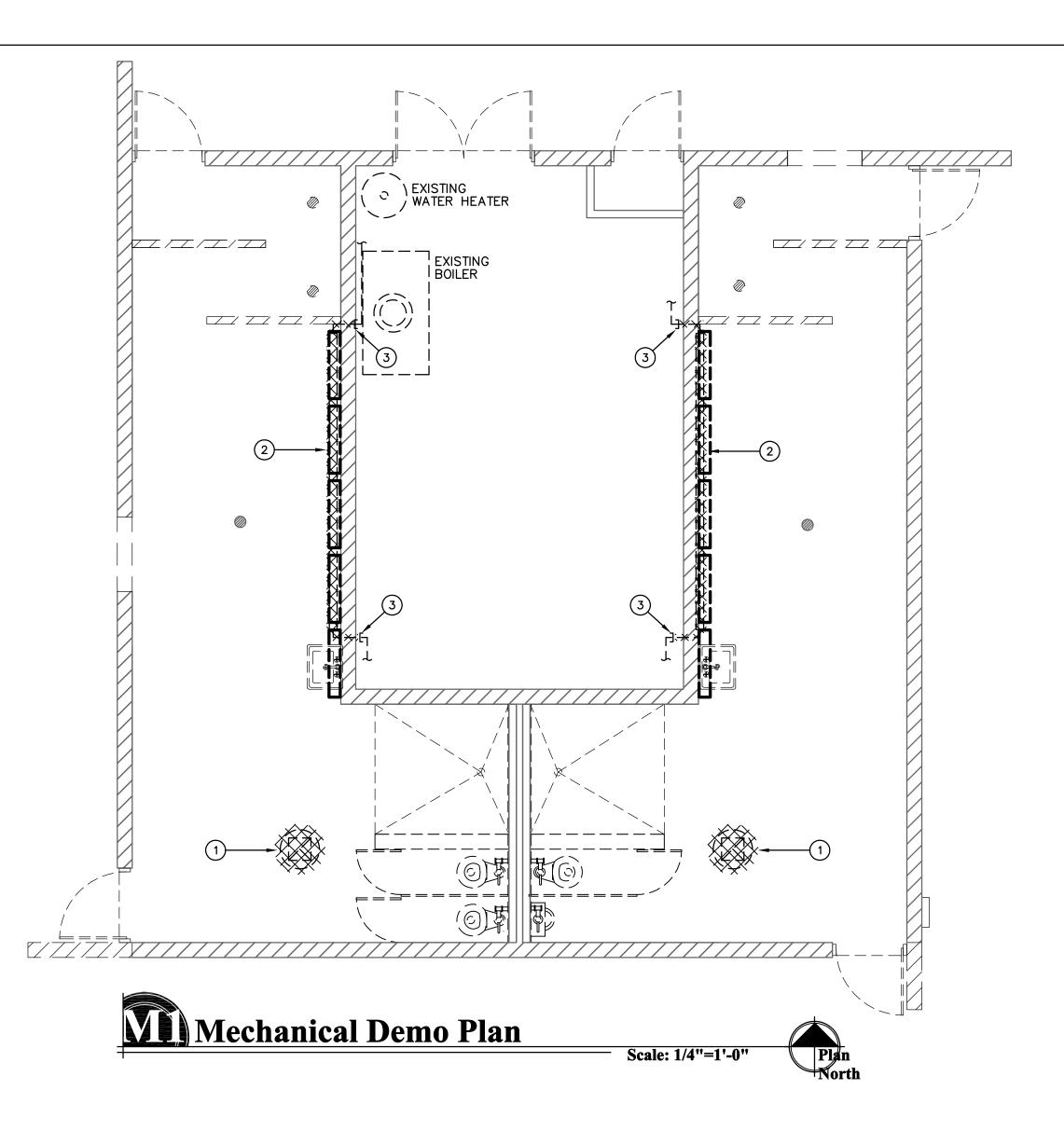
ERAU Buildin 3700 Willow C Prescott, AZ

AWING:

DR

DRAWN BY L.O. CHECKED BY W.A.K.

February 13th, 2017 J□B N□. **696**



GENERAL REQUIREMENTS

1 - PROVIDE CLEARANCES AS PER MANUFACTURER'S RECOMMENDATIONS.

- 2 PITCH DRAIN LINES 1/8" PER 12" RUN TOWARDS TERMINATION.
- 3 PROVIDE EQUIPMENT IDENTIFICATION PER IMC 2012.
- 4 THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING OF WALLS AND CEILING. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT. PATCH AROUND ALL OPENINGS TO MATCH EXISTING CONSTRUCTION.
- 5 PRIOR TO THE CONTRACTOR ORDERING OR SETTING ANY AIR CONDITIONING EQUIPMENT, DUCTWORK, OR AIR DEVICE, HE SHALL VERIFY LOCATION OF PLACEMENT WITH ARCHITECTURAL DRAWINGS AND CONFIRM WEIGHTS, DISCHARGE CONFIGURATION, SIZES, ELECTRICAL CHARACTERISTICS AND ANY OTHER DIMENSIONAL DATA WHICH MIGHT AFFECT THE SUCCESSFUL INSTALLATION OF THE
- 6 KEEP ALL VENTS THROUGH ROOF AND EXHAUST DISCHARGE DUCTS A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES OR WINDOWS AND FROM ALL VERTICAL PORTIONS OF THE BUILDING.
- 7 UPON COMPLETION AND TESTING OF AIR CONDITIONING EQUIPMENT, THE CONTRACTOR SHALL REPLACE ALL CONSTRUCTION AIR FILTERS WITH NEW FILTERS OF THE SIZED SPECIFIED BY THE MANUFACTURER.

COORDINATION NOTES

1 - COORDINATE OPENING'S FOR GRILLES, REGISTERS, DIFFUSERS AND DUCTWORK WITH FRAMING CONTRACTOR PRIOR TO ROUGH-IN.

2 - COORDINATE EXACT LOCATION OF ALL GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL PLANS.

3 - LIGHTING & SPRINKLER HEADS TAKE PRECEDENCE OVER DIFFUSER LOCATION. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO DIFFUSERS TO AVOID ANY CONFLICT WITH LIGHTING LAYOUT & SPRINKLER HEADS.

- 4 CONTRACTOR TO COORDINATE ALL FINAL THERMOSTAT LOCATIONS WITH OWNER & ARCHITECT PRIOR TO MOUNTING.
- 5 ALL THERMOSTATS ARE TO BE MOUNTED AT A HEIGHT OF 48" ABOVE THE FLOOR LEVEL FOR DISABLED ACCESS.

DUCT CONSTRUCTION NOTES

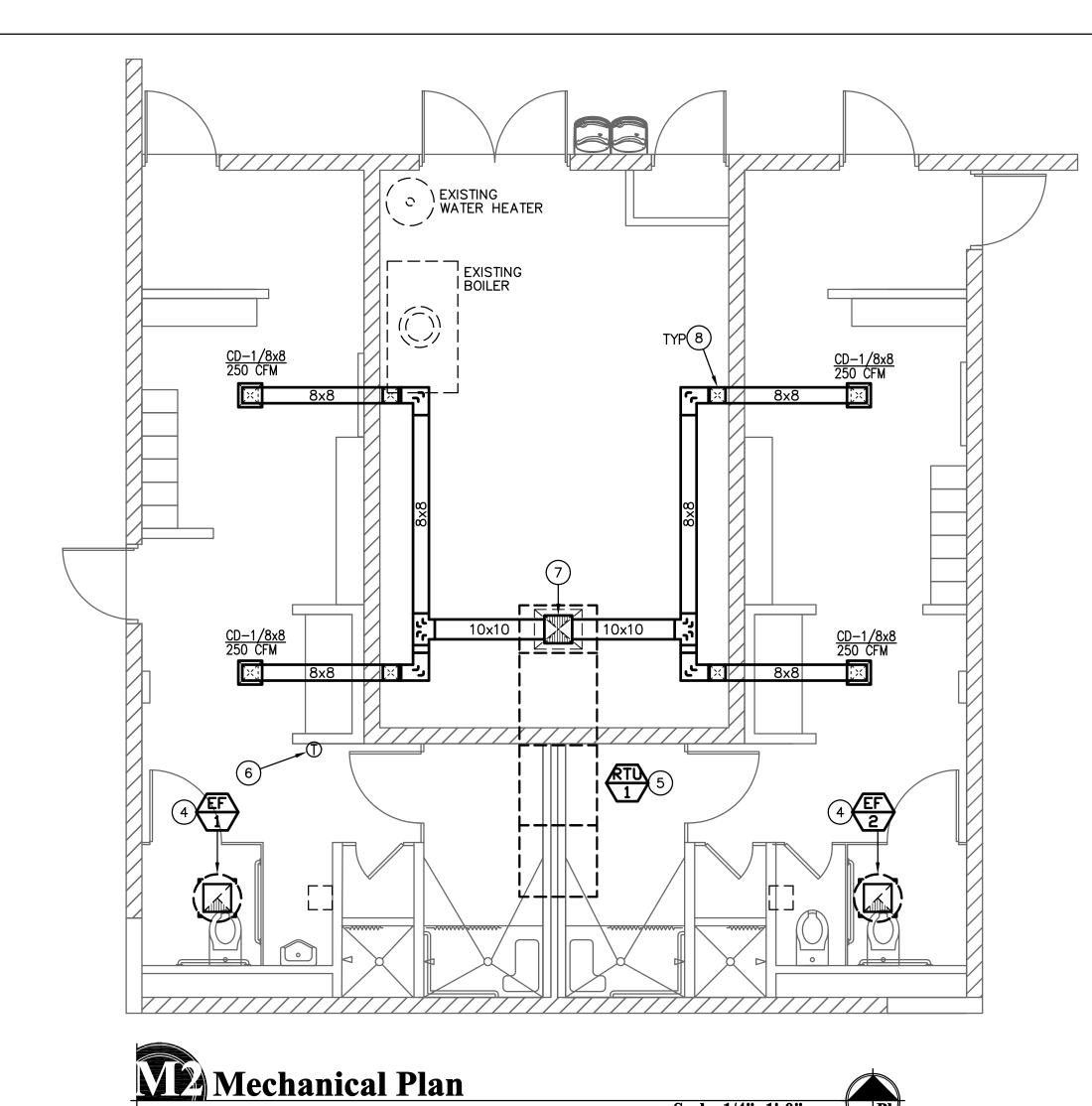
1 - ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "ASHRAE GUIDE" AND "SMACNA STANDARDS" AND IN CONFORMANCE WITH REQUIREMENTS OF LOCAL BUILDING, MECHANICAL AND ENERGY CONSERVATION CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

2 - FLEXIBLE DUCTWORK SHALL COMPLY WITH THE CLASS I REQUIREMENTS OF THE NFPA BULLETIN NO. 90A AND SHALL BE INSULATED WITH 1" FIBERGLASS, SUPPORTED BY HELICALLY WOUND STEEL WIRE WITH REINFORCED METALIZED OUTER JACKET RATED FOR USE IN PLENUMS. ATTACHMENT SHALL BE WITH WORM DRIVE CLAMPS. LENGTH SHALL NOT EXCEED 6'-0"

3 - ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTION ON DUCTWORK SHALL BE LISTED AND LABELED BY UL 181A OR 181B TAPES AND MASTICS.

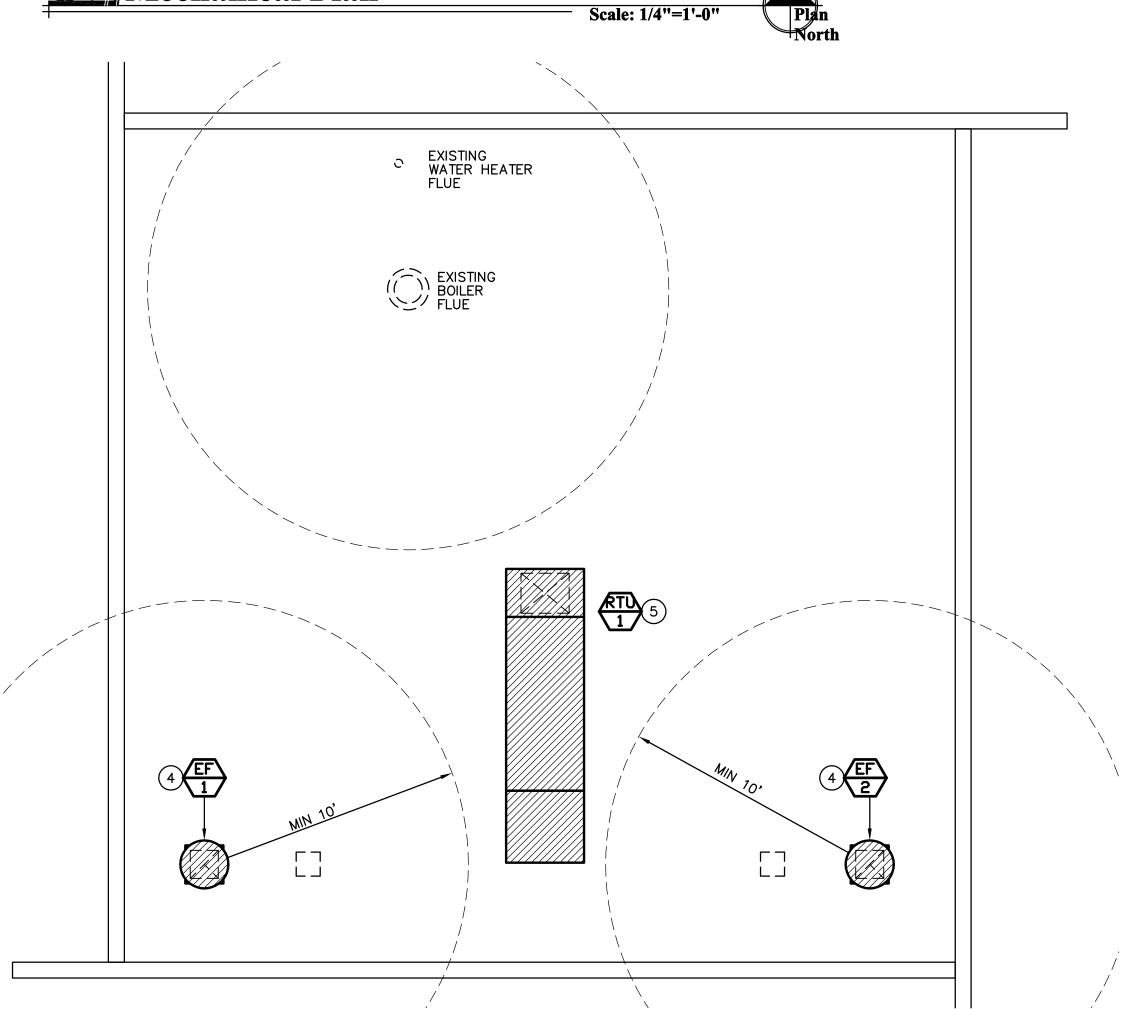
4 - PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE.

5 - TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS. 6 - HANGERS FOR SHEET METAL DUCTWORK SHALL BE INSTALLED AS REQUIRED BY 2012 IMC.



KEYNOTES

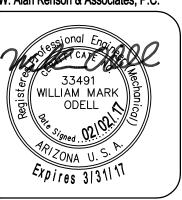
- 1) REMOVE EXISTING ROOF MOUNTED EXHAUST FAN AND PATCH ROOF OPENING.
- (2) REMOVE EXISTING HOT WATER BASE BOARD HEATERS.
- REMOVE HEATING WATER PIPING SERVING REMOVED BASE BOARD HEATERS AND CAP PIPING TO REMAIN.
- 4) ROOF MOUNTED CENTRIFUGAL EXHAUST FAN ON NEW 8" CURB.
- 5 ROOF MOUNTED MAKE UP AIR UNIT WITH 2-STAGE HEATING AND EVAPORATIVE COOLING. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ROOF PLAN. COORDINATE WATER AND DRAIN PIPING WITH PLUMBING CONTRACTOR.
- 6 PROGRAMMABLE T-STAT, WITH LOCKABLE COVER MOUNTED 48" ABOVE FLOOR
- 7 14x14 MAKE-UP AIR DUCT DOWN THROUGH ROOF AND ROUTED AS HIGH AS POSSIBLE IN MECHANICAL ROOM. COORDINATE LOCATION OF DUCTWORK WITH EXISTING LIGHTING. CONFIRM WITH ARCHITECT.
- 8 8x8 TO RISE UP TO RUN BETWEEN JOISTS AND ROUTED ABOVE NEW CEILING IN LOCKER ROOM TO SUPPLY DIFFUSER.





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Mechanical Roof Plan

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

MECHANICAL SPECIFICATIONS

GENERAL REQUIREMENTS

GENERAL PROVISIONS WHICH MAKE SPECIFIC REFERENCE TO ELECTRICAL DIVISION ONLY ARE INCLUDED HEREIN FOR CLARITY AND SIMPLIFICATION OF SPECIFICATIONS WRITING AND ARE NOT PART OF WORK UNDER THIS SECTION INCLUDES FURNISHING ALL LABOR, THE MECHANICAL WORK. THE WORK OF DIVISION 15, MECHANICAL, IS SUBJECT TO THE CONDITIONS OF THE CONDITIONS OF THE CONTRACT. DIVISION 1. GENERAL REQUIREMENTS. AND APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS. AND INDICATED ON THE DRAWINGS. EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS AND COORDINATE THE MECHANICAL WORK ACCORDINGLY.

INTENT

IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON THE DRAWINGS, BUT MENTIONED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED WITHOUT ADDITIONAL AND BUILDING OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP EXPENSE TO THE OWNER. SHALL THERE APPEAR TO BE DISCREPANCIES OR QUESTIONS OF INTENT IN THE CONTRACT. DOCUMENTS. REFER THE MATTER TO THE ARCHITECT FOR HIS DECISION BEFORE ORDERING ANY MATERIALS OR EQUIPMENT OR BEFORE THE START OF ANY RELATED WORK. THE DECISION OF THE ARCHITECT SHALL BE FINAL, CONCLUSIVE AND BINDING.

DRAWINGS AND DATA

DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CÔNVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT NECESSARY CORRECTIONS AT NO COST TO THE OWNER. AVOID OF EQUIPMENT, DUCTS, CONDUITS, PIPING AND FIXTURES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR EVERY WITHOUT CONSENT OF ARCHITECT. STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT MUST BE DETERMINED AT PROJECT AND SHALL HAVE APPROVAL OF ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE ARCHITECT BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. IF SO DIRECTED BY ARCHITECT, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF WORK. INCLUDE MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION DUCTWORK AND OPERATION OF A SYSTEM OR PIECE OF EQUIPMENT IN BID PRICE.

CODES

INCLUDE IN WORK, WITHOUT EXTRA COST TO OWNER, LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) REQUIRED TO COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS. DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, STANDARDS AND STATUTES. CODES, ORDINANCES, STANDARDS AND STATUES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH DRAWINGS OR SPECIFICATIONS. FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:

A. APPLICABLE CITY, COUNTY, AND STATE MECHANICAL, ELECTRICAL, GAS, PLUMBING, HEALTH AND SANITARY CODES, LAWS AND ORDINANCES. B. 2012 INTERNATIONAL MECHANICAL CODE WITH LOCAL

GENERAL

AMENDMENTS.

MATERIALS AND EQUIPMENT STANDARD PRODUCTS OF A REPUTABLE SMOKE DEVELOPED. ADHESIVES SHALL BE WATERPROOF. MANUFACTURER REGULARLY ENGAGED IN MANUFACTURE OF THE SPECIFIED ITEMS. WHERE MORE THAN ONE UNIT IS REQUIRED OF ANY ITEM, FURNISHED BY THE SAME MANUFACTURER, EXCEPT WHERE SPECIFIED OTHERWISE. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SHOULD VARIANCE BETWEEN PLANS AND SPECIFICATIONS OCCUR WITH THESE, CONTACT ARCHITECT IMMEDIATELY SO THAT VARIATIONS IN INSTALLATION CAN BE KNOWN BY ALL PARTIES CONCERNED. PROVIDE EQUIPMENT FROM MANUFACTURER WHOSE PRODUCTS HAVE LOCAL REPRESENTATION.

EXECUTION

PROTECT EXISTING ACTIVE SERVICES (WATER, GAS, SEWER, ELECTRIC) WHEN ENCOUNTERED, AGAINST DAMAGE FROM CONSTRUCTION WORK. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES WHICH ARE TO REMAIN. IF WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, CONSULT WITH OWNER AS TO DATES, PROCEDURES, AND ESTIMATED DURATION OF AT LEAST 10 WORKING DAYS IN ADVANCE OF DATE WHEN WORK IS TO BE PERFORMED. ARRANGE WORK FOR CONTINUOUS PERFORMANCE TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME REQUIRED TO MAKE NECESSARY CONNECTIONS. IF A SYSTEM CANNOT SHUT DOWN, INSTALL TEMPORARY BYPASSES OR JUMPERS UNTIL CONNECTIONS ARE COMPLETE. CONTRACTOR RESPONSIBLE FOR ALL COSTS INCURRED BY ABOVE SHUTDOWNS, INCLUDING BYPASS OR JUMPER INSTALLATIONS, FOR WORK PERFORMED UNDER THIS SECTION. IF EXISTING ACTIVE UTILITY SERVICES ARE ENCOUNTERED WHICH REQUIRE RELOCATION, MAKE REQUEST TO PROPER AUTHORITIES FOR DETERMINATION OF PROCEDURES. PROPERLY TERMINATE EXISTING SERVICES TO BE ABANDONED IN CONFORMANCE WITH REQUIREMENTS OF AUTHORITIES. WHERE CONNECTIONS OR DISRUPTIONS ARE MADE TO EXISTING SYSTEMS, REACTIVATE, REFILL, AND RECHARGE ALL COMPONENTS AND RESTORE SYSTEMS TO OPERATING CONDITIONS AT TIME OF DISRUPTION.

GUARANTEE

EACH COMPLETE SYSTEM GUARANTEED BY CONTRACTOR FOR A PERIOD OF ONE YEAR, FROM DATE OF ACCEPTANCE OF WORK BY OWNER IN WRITING. TO BE FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP, AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT BE PROVIDED AS NECESSARY TO MAKE THE SYSTEM OF EQUIPMENT OPERATE SATISFACTORILY, AND THAT ANY FAULTY MATERIALS OR WORKMANSHIP BE REPLACED OR REPAIRED. ON FAILURE OF GUARANTOR TO DO THE ABOVE AFTER WRITTEN NOTICE FROM OWNER, THE OWNER MAY HAVE THE WORK DOWN AT THE COST OF GUARANTOR. LOSS OF REFRIGERANT IS CONSIDERED A DEFECT IN WORKMANSHIP AND/OR EQUIPMENT, TO BE CORRECTED AS REQUIRED AT NO EXTRA COST TO THE OWNER.

PROVIDE EXTENDED FIVE (5) YEAR FACTORY PARTS & LABOR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS.

AIR CONDITIONING, HEATING AND VENTILATING

MATERIALS AND EQUIPMENT NECESSARY FOR THE REMODELING, INSTALLATION AND PLACING INTO OPERATION THE HEATING, VENTILATING AND AIR CONDITIONING WORK AS SPECIFIED HEREIN

VERIFICATION OF DIMENSIONS:

SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE ONLY. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY AT THE SITE, AND RESPONSIBLE FOR PROPERLY FITTING EQUIPMENT AND MATERIALS TOGETHER AND TO THE STRUCTURE IN SPACES PROVIDED. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND MANY OFFSETS, BENDS, SPECIAL FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED. CAREFULLY STUDY DRAWINGS AND PREMISES I ORDER TO DETERMINE BEST METHODS, EXACT LOCATIONS, ROUTES OPENINGS AND PASSAGEWAYS CLEAR.

CUTTING AND PATCHING:

CUT EXISTING WORK AND PATCH AS NECESSARY TO PROPERLY INSTALL THE NEW WORK. AS THE WORK PROGRESSES, LEAVE NECESSARY OPENINGS, HOLES AND CHASES, ETC., IN THEIR CORRECT LOCATIONS. IF THE REQUIRED OPENINGS, HOLES AND CHASES ETC., ARE NOT IN THEIR CORRECT LOCATIONS, MAKE THE EXCESSIVE CUTTING AND DO NOT CUT STRUCTURAL MEMBERS

REGULATIONS, PERMITS & INSPECTIONS

LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. INTERNATIONAL MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

ALL DUCTWORK FABRICATED AS PER LATEST INTERNATIONAL MECHANICAL CODE REQUIREMENTS AND SMACNA MANUAL. EXTENSION OF EXISTING DUCTWORK SHALL BE MADE WITH SOME MATERIAL. DUCTWORK SHALL BE CONSTRUCTED OF NEW HOT-DIPPED GALVANIZED SHEET METAL ASTM A-120 FOR EACH SIDE, WITH 1", 1 1/2 LB. DENSITY DUCT LINER. TAPE ALL CROSS-JOINTS IN SHEET METAL DUCT WITH HARDCAST. TAKE-OFF FITTINGS SHALL BE CONICAL SPIN-IN WITH QUADRANT DAMPER. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS. DUCT INSULATION: ACCEPTABLE MANUFACTURERS: CSG. JOHNS-MANSVILLE.

FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO AIR DISTRIBUTION DEVICES, BUT SHALL NOT EXCEED 6 FEET IN LENGTH. FLEXIBLE DUCT SHALL HAVE A MINIMUM R-5 INSULATION VALUE.

DUCT INSULATION

DUCT SIZES ON DRAWINGS ARE "CLEAR INSIDE." INCREASE SHEET METAL SIZES ACCORDINGLY FOR LINED DUCTWORK. ADHESIVE AND INSULATING MATERIALS SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS MAXIMUM 25 FOR FLAME SPREAD AND 50 FOR

LINED DUCTWORK - SEMI-RIGID GLASS FIBER INSULATION, 1 1/2

1 1/2" THICK, THERMAL CONDUCTIVITY AT 75". MAXIMUM 0.17 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 6.0.

WRAPPED DUCTWORK - FIBER GLASS BLANKET WITH FRK VAPOR RETARDING FACING. 1 1/2 PCF, 2" THICK, WITH A MINIMUM INSTALLED "R-VALUE" OF 6.0. (ASSUMES 25% COMPRESSION)

ACCEPTABLE MANUFACTURERS

THE FOLLOWING IS A LIST OF MANUFACTURERS WHOSE EQUIPMENT AND HVAC MATERIALS ARE ACCEPTABLE, SUBJECT TO CONFORMANCE WITH CONTRACT DOCUMENTS. VERIFY THAT THE EQUIPMENT WILL MEET ALL CAPACITIES SPACE ALLOCATIONS, AND THAT THE WEIGHTS WILL NOT EXCEED STRUCTURAL DESIGN LOADS.

FURNACE AND CONDENSERS: CARRIER, TRANE, YORK.

MAKE UP AIR UNIT: MODINE. GRILLES, REGISTERS, DIFFUSERS: KRUEGER, METAL-AIRE, TITUS, FLEXIBLE DUCT: GENFLEX, THERMAFLEX, OR EQUIVALENT EXHAUST FANS: GREENHECK, LOREN COOK AND PENN VENTILATOR. DUCT AND PIPE INSULATION: KNAUF, OWENS-CORNING, MANVILLE, CERTAIN-TEED, PPG.

EXHAUST FANS

SIZE, CAPACITIES, AND TYPE AS INDICATED ON THE DRAWINGS. FURNISH COMPLETE WITH FACTORY CURBS/ROOF CAPS, BAROMETRIC DAMPER, SPEED CONTROL, DISCONNECT, STARTER (IF REQUIRED), AND BIRDSCREEN. FURNISH ROOF MOUNTED FANS WITH INSULATED ROOF CURB; PROVIDE CEILING MOUNTED FANS WITH WALL/ROOF

AIR SYSTEM BALANCING

AIR SYSTEMS AND AIR DISTRIBUTION TEST AND BALANCE: THE CONTRACTOR SHALL INCLUDE IN HIS BID TESTING AND AIR BALANCE OF AIR MOVING EQUIPMENT AND AIR DISTRIBUTING OR EXHAUSTING SYSTEMS AS HEREIN SPECIFIED. PROVIDE CERTIFIED REPORT TO ARCHITECT.

RTU [MAKE UP	AIR	UNIT	<u>SCHE</u>	DU	LE								
MARK	MANUFACTURER	MODEL	CFM	EXT. S.P.	HP	EVAP MEDIA	MBH IN	HE/	ATING	STAGES	TYPE	ELECTRIC	WT. (LBS)	REMARKS
1	MODINE	HDP-125	1,000	0.5	1/2	12" CELDEK	125	100	80%	2	N. GAS	240/1	1,152	12345678

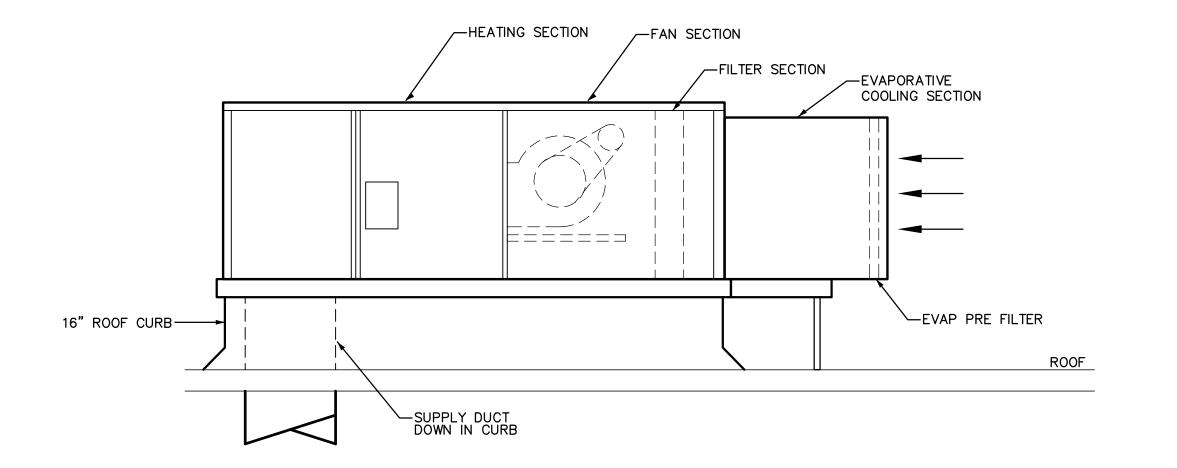
- $(\ 1\)$ PROVIDE EVAP COOLING SECTION WITH 1" PRE-FILTERS.
- (2) PROVIDE WITH 2-STAGE OR MODULATING HEATING.
- (3) HEAT EXCHANGER SHALL BE 409 STAINLESS STEEL.
- (4) PROVIDE 16" ROOF CURB.

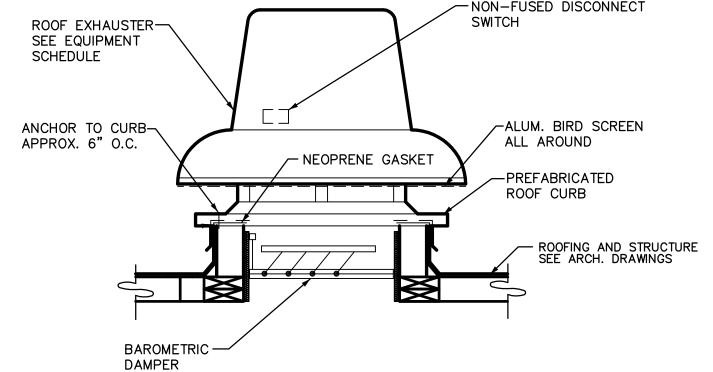
- (5) PROVIDE WITH PROGRAMMABLE THERMOSTAT.
- (6) PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH.
- (7) PROVIDE WITH 2" MERV 8 FILTERS.
- (8) EVAP SECTION SHALL HAVE AUTOMATIC FILL AND DRAIN KIT.

EF -	EXHAUST FAN SCHEDULE										
MARK	MOUNTING	MANUFACTURER	MODEL	CFM	E.S.P.	MOT	ΓOR	BAROM.	WIRE	DRIVE	REMARKS
	/LOCATION					H.P.	V/PH	DAMPER	SCREEN		
EF-1	ROOF CENTRIFUGAL	GREENHECK	GB-101	500	0.25	1/4	120/1	YES	NO	BELT	1 2 3
EF-2	ROOF CENTRIFUGAL	GREENHECK	GB-101	500	0.25	1/4	120/1	YES	NO	BELT	1 2 3

- (1) PROVIDE WITH 8" ROOF CURB AND DISCONNECT.
- (2) UNIT SHALL OPERATE CONTINUOUSLY.
- (3) INTERLOCK WITH MAKE UP AIR UNIT.

	GRILL	ES/RE	GISTER	RS/D	IFFUS	ERS S	CHE	DULE	- -			
MARK	RK DESCRIPTION MODULE SIZE TYPE OBD FRAME 1 MATERIAL FINISH MANUF. MODEL REMARKS											
CD-1	CD-1 SUPPLY DIFFUSER 12" x 12" SQUARE CEILING YES SURFACE STEEL WHITE TITUS TDC 80 NECK											
1 PR	PROVIDE FRAME STYLE TO SUIT CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS.											





MAKE UP AIR UNIT DETAIL





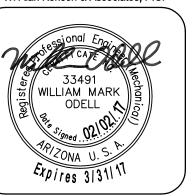


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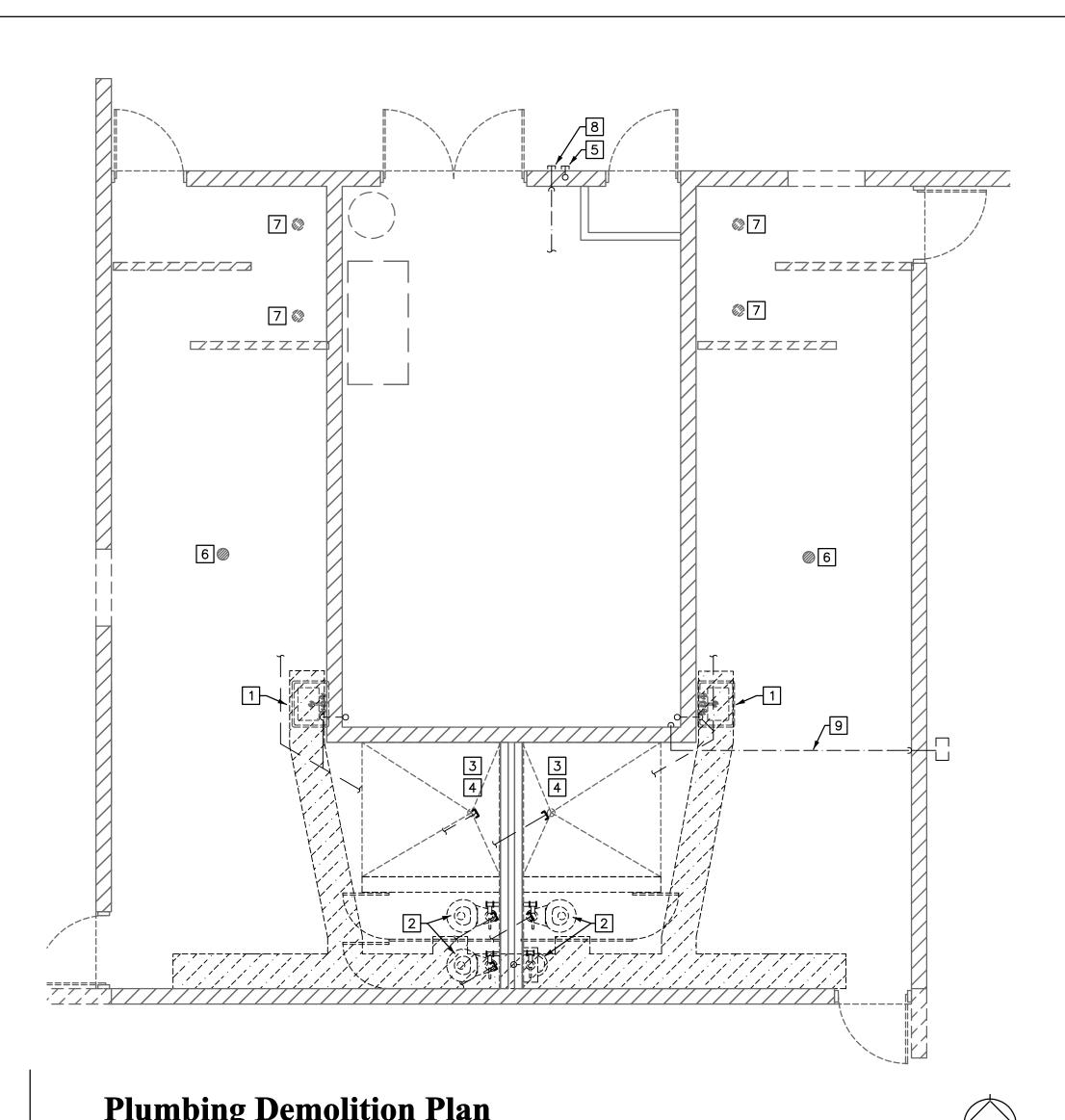
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JOB NO. SHEET



PLUMBING GENERAL NOTES:

EACH PENETRATION THROUGH SLAB.

ELECTRICAL SERVICES.

DISSIMILAR METALS.

EVAPORATIVE COOLERS, ETC.

I. ALL PLUMBING WORK SHALL COMPLY WITH THE MOST STRINGENT OF

. COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND

4. WATER PIPING INSTALLED UNDER CONCRETE SLAB SHALL BE LOOPED IN

PARTITION WALLS WITH NO JOINTS UNDER SLAB & WITH PLASTIC SLEEVE FOR

SOLDERS AND FLUX HAVING A LEAD CONTENT IN EXCESS OF TWO-TENTHS

OF ONE PERCENT SHALL NOT BE USED IN THE INSTALLATION OR REPAIR OF

5. INSTALL APPROVED DIELECTRIC ISOLATORS AT ALL CONNECTIONS OF

6. LOCATE ALL VENTS THROUGH ROOF 10'-0" FROM ALL AIR INTAKES,

2. ALL FIXTURES SHALL BE PROPERLY VENTED TO THE ATMOSPHERE.

APPLICABLE CODES, ORDINANCES, OR THE SPECIFICATIONS.

PLUMBING PROVIDING WATER FOR HUMAN CONSUMPTION.

1 REMOVE EXISTING FIXTURE & FAUCET. EXISTING WASTE & VENT & H & CW PIPING TO REMAIN AS POINTS OF CONNECTION FOR NEW LAVATORY.

DEMOLITION KEYNOTES

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

8. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT

9. LOCATE ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER

INSPECTION, REMOVAL OR REPLACEMENT SO AS TO BE ACCESSIBLE WITH

10. REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL LINE SIZES.

11. WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER

ARCHITECTURAL DRAWINGS & INCLUDE IN HIS BID AN AMOUNT TO FURNISH

& INSTALL ANY FIXTURES SHOWN IN ADDITION TO PLUMBING DRAWINGS.

12. PRIOR TO SUBMITTING BID. CONTRACTOR SHALL REVIEW THE

EQUIPMENT REQUIRING FREQUENT READING. REPAIRS, ADJUSTMENTS,

FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

REFERENCE TO THE FINISHED BUILDING.

TERMINATE THROUGH ROOF.

- 2 REMOVE EXISTING FIXTURES & FLUSH VALVES. CAP WASTE PIPING BELOW FLOOR (FOR WC'S & URINAL). REMOVE ALL UNUSED SUPPLY PIPING. NOTE: EXISTING CW SUPPLY TO HOSE BIBB TO REMAIN ACTIVE.
- 3 REMOVE EXISTING SHOWERHEADS & SHOWER VALVES. REMOVE ALL UNUSED PIPING.
- 4 REMOVE EXISTING SHOWER DRAINS & CAP WASTE PIPING BELOW FLOOR. REMOVE ALL UNUSED SUPPLY PIPING.
- 5 EXISTING WASTE PIPING FROM PREVIOUSLY DEMO'D. DRINKING FOUNTAIN TO REMAIN AS POINT OF CONNECTION FOR NEW DRINKING FOUNTAIN.
- 6 EXISTING FLOOR DRAIN TO REMAIN.
- 7 EXISTING FLOOR DRAIN TO BE ABANDONED- REMOVE GRATE, CUT & CAP TRAP ARM BELOW SLAB.
- 8 REMOVE EXISTING CW SUPPLY TO PREVIOUSLY DEMO'D. DRINKING FOUNTAIN TO INSIDE WALL (TO BE USED AS POINT OF CONNECTION FOR NEW REMOTE CHILLER).
- 9 REMOVE EXISTING PVC WATER LINE & CONTROL WIRES FROM WATER SOURCE TO LANDSCAPE IRRIGATION BACKFLOW PREVENTION DEVICE AT BUILDING EXTERIOR.

Plumbing Floor Plan

<u>WC-2</u>

(18)—

NOTE ON SLOPE OF WASTE PIPING: SLOPE ALL HORIZONTAL WASTE PIPING AS FOLLOWS: FOR PIPE SIZES UP THROUGH 3",

21)

SLOPE AT 1/4" PER FT. FOR PIPE SIZES 4" & ABOVE, SLOPE AT 1/8" PER FT.

NOTE: CONNECT NEW VENTS TO EXISITING VENTS THROUGH ROOF WHERE PRACTICAL.

PLUMBING NOTE:

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

<u>WC-2</u>

WATER CLOSETS: 1.6 GALLONS PER FLUSH 1.0 GALLONS PER FLUSH LAV FAUCETS: .5 GALLONS PER MINUTE SHOWERHEADS: 2.5 GALLONS PER MINUTE

PLUI	MBIN	G LEGEND
SYMBOL	ABBR.	DESCRIPTION
	w	DRAIN OR WASTE PIPING
	٧	VENT PIPING
<u> </u>	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
─ Ā—	GV	GATE VALVE
<u>——б——</u>	BV	BALL VALVE
—-G—	G	NATURAL GAS PIPING
D	D	DRAIN PIPING
Ø	FCO, SCO	FLOOR OR SURFACE CLEANOUT
⊣ :	wco	WALL CLEANOUT
J٢	VTR	VENT THRU ROOF

ALL PLUMBING FIXTURES SHALL BE OF A LOW-FLOW DESIGN WHICH LIMITS THE WATER FLOW NOT TO EXCEED THE FOLLOWING:

SYMBOL	ABBR.	DESCRIPTION
	w	DRAIN OR WASTE PIPING
	٧	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
── Ā──	GV	GATE VALVE
——б——	BV	BALL VALVE
——G——	G	NATURAL GAS PIPING
<u> </u>	D	DRAIN PIPING
Ø	FCO, SCO	FLOOR OR SURFACE CLEANOU
⊣ ı	wco	WALL CLEANOUT
ال	VTR	VENT THRU ROOF

KEYNOTES

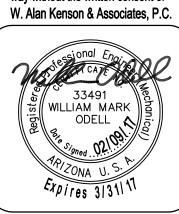
- (1) CONNECT NEW 4" WASTE TO EXISTING WASTE
- 2 ASSUMED LOCATION FOR EXISTING 4" WASTE FROM ORIGINAL BUILDING DRAWINGS. FIELD VERIFY EXACT SIZE, LOCATION, INVERT & FLOW DIRECTION PRIOR TO CONSTRUCTION.
- (3) CONNECT NEW LAVATORY TRAP ARM TO EXISTING WASTE FROM DEMO'D. LAV; REWORK PIPING AS REQUIRED FOR NEW FIXTURE INSTALLATION.
- (4) ROUTE NEW LAV WASTE & VENT IN WALL ABOVE FLOOR TO CONNECT TO EXIST. WASTE & VENT FROM DEMO'D. LAV. REWORK PIPING AS REQUIRED FOR NEW FIXTURE INSTALLATION.
- (5) CONNECT NEW DRINKING FOUNTAIN TRAP ARM TO EXIST. WASTE FROM DEMO'D. DRINKING FOUNTAIN. NOTE: UNIT TO MOUNTED AT ADA HEIGHT- REFER TO ARCH. DRAWINGS FOR MOUNTING HEIGHT. REWORK PIPING AS REQUIRED FOR NEW FIXTURE INSTALLATION.
- (6) CONNECT NEW 1/2" CW TO EXIST. CW SUPPLY FROM DEMO'D. DRINK. FOUNTAIN; RISE WITH NEW LINE ALONG WALL TO NEW REMOTE CHILLER.
- 7 EXISTING 1-1/2" CW SUPPLY ROUTED ALONG WALL IN MECH ROOM- FIELD VERIFY EXACT SIZE & LOCATION.
- (8) EXISTING 1" HW SUPPLY ROUTED ALONG WALL IN MECH ROOM- FIELD VERIFY EXACT SIZE & LOCATION.
- 9 CONNECT NEW 1-1/2" CW TO EXISTING CW LINE; ROUTE NEW LINE IN PLUMBING WALL.
- (10) CONNECT NEW 1" HW TO EXISTING HW LINE; ROUTE NEW NEW LINE IN PLUMBING WALL.
- (11) 1/2" H & CW DN. TO ROUTE IN WALL TO SHOWER.
- (12) 1-1/2" CW DOWN TO 1-1/2" HEADER, WITH 1" EACH WC.
- (13) 1-1/2" CW DOWN TO 1-1/2" HEADER, WITH 3/4" TO URINAL & 1" TO WC.
- (14) WATER HAMMER ARRESTER WHA, PDI TYPE "B", ON CW HEADER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NEW BACKWATER VALVE, LINE SIZE, ON EXISTING BUILDING SEWER TO COMPLY WITH CITY OF PRESCOTT REQUIREMENTS. PROVIDE WITH TRAFFIC RATED COVER.
- (16) CONNECT NEW GAS LINE TO EXISTING LOW PRESSURE OUTLET OF EXIST. GAS REGULATOR.
- (17) CONNECT NEW GAS LINE TO EXISTING GAS LINE.
- (18) EXISTING 2" GAS SUPPLY LINE TO POOL HEATER & WATER HEATER (VERIFY).
- (19) NEW GAS LINE RISE ALONG EXTERIOR WALL TO ENTER LOCKER ROOM ABOVE CEILING.
- (20) NEW GAS LINE, SURFACE MOUNT ON BOTTOM OF MECH. ROOM CEILING, COORDINATE ROUTING WITH EXISTING CONDITIONS.
- (21) INSTALL NEW 4" 2-WAY SCO ON EXIST. WASTE.
- (22) GAS PIPING UP THROUGH ROOF TO NEW MAKEUP AIR UNIT. PROVIDE LUBRICATED GAS COCK & 6" DIRT LEG AT UNIT CONNECTION. FLASH PIPING AT ROOF PENETRATION.
- (23) 1-1/2" CW & 1" HW RISE TO ROUTE ABOVE CEILING.
- (24) GAS PIPING DROP TO ROUTE BELOW MECH. ROOM CEILING.
- (25) H & CW PIPING ROUTED IN ROOF JOIST SPACE.
- 26 1/2" CW ROUTE ALONG WALL TO SUPPLY/ DRAIN DOWN
- 27 MAKEUP AIR UNIT SUPPLY/DRAIN DOWN SYSTEM- SEE DETAIL, SHEET P2.1.
- 28 1/2" CW OUT OF DRAIN DOWN SYSTEM, RISE TO ROUTE $^{\prime}$ BELOW CEILING (SURFACE MOUNT TO BOTTOM OF CEILING).
- 29 1/2" CW RISE THROUGH ROOF & CONNECT TO MAKEUP AIR UNIT. FLASH PIPING AT ROOF PENETRATION. PROVIDE NEEDLE VALVE SHUTOFF AT UNIT CONNECTION.
- 30 3/4" BLEED/DRAIN LINE DROP ALONG WALL & TERMINATE AT NEAREST RECEPTOR (VERIFY LOCATION).
- 31) 3/4" BLEED & DRAIN LINE CONNECTION TO COOLER DRAIN OUTLET. PIPING MATERIAL: TYPE "M" COPPER. DROP WITH DRAIN LINE THROUGH ROOF TO ROUTE (SURFACE MOUNTED) AT BOTTOM OF CEILING. FLASH PIPING AT ROOF PENETRATION.
- 32 REMOTE CHILLER, MOUNT ON SHELF SUPPORTED FROM WALL, SEE DETAIL, SHEET P2.1.
- (33) PROVIDE VALVED 1/2" CW & CHILLED WATER CONNECTIONS TO REMOTE CHILLER.
- (34) 1/2" CHILLED CW DOWN TO DRINKING FOUNTAIN. NOTE: INSULATE CHILLED WATER PIPING WITH 1/2" ARMAFLEX.
- REMOVE EXISTING HOSE BIBB & REPLACE WITH NEW FREEZEPROOF HOSE BIBB. REWORK EXIST. PIPING AS REQ'D. (36) LOCATION OF EXISTING NATURAL GAS 2ND STAGE REGULATOR.
- (37) EXISTING LANDSCAPE IRRIGATION SYSTEM BACKFLOW PREVENTION DEVICE.
- (38) INSULATED 3/4" CW FROM WATER SOURCE TO LANDSCAPE IRRIGATION SYSTEM BACKFLOW PREVENTION DEVICE. ROUTE PIPING IN ROOF JOIST SPACE & FURRED WALL SPACE.
- (39) ROUTE 3/4" CW TO BELOW GRADE BY DRILLING CONCRETE SLAB AT AN APPROX. 45° ANGLE DOWNWARD TOWARD EXTERIOR.

NOTE: LOCATIONS AND SIZES FOR ALL ITEMS ARE BASED ON THE BEST INFORMATION AVAILABLE. SOME ITEMS SHOWN ARE TO INDICATE THE INTENT OF THE PLUMBING SYSTEMS BUT MAY NOT NECESSARILY REFLECT THE EXACT ROUTING AND LOCATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL LOCATIONS AND SIZES OF THOSE ITEMS REQUIRING MODIFICATIONS.



REVISIONS

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GENERAL

1..1 Scope: Work under this section includes coordinating and furnishing all labor and material necessary to install a complete plumbing system as shown and specified and in accordance with the codes. Contractor shall pay for all permits, meters, fees, city inspections, legal notices, etc.,

1..2 Submittals: Within 15 days after award of contract, submit 8 copies of all items.

1..3 Record Drawings: Provide a set to the Architect at completion of project.

1..4 Instructions: Provide maintenance manual and instruct Owner in the proper operation and maintenance of the equipment.

1..5 Guarantee: One year on labor, material and equipment.

PRODUCTS

2..1 Piping:

2..1.1 Water Lines:

2..1.1.1 Copper: Type "L" hard drawn, conforming to ASTM B88, for all water pipe not set under concrete or in the ground.

2..1.1.2 Copper: Type "K" soft drawn, conforming to ASTM B88, for water pipe set in or under concrete. Wrap lines below concrete floors with 20 mils of polykon tape.

2..1.1.3 Fittings: Wrought copper conforming to ANSI B16.22.

2..1.1.4 Plastic: Schedule 40 PVC piping conforming to ASTM D1785-06, for all water piping installed below grade and not under concrete. Fittings: Schedule 40 PVC fittings conforming to ASTM D2466-06.

2..1.2 Sanitary Waste and Vent Piping:

2..1.2.1 Cast Iron conforming to CISPI Standard 301-95 and ASTM A-888 for all no-hub pipe and fittings installed above and below grade.

2..1.2.2 Galvanized Iron: Standard weight, Schedule 40 galvanized iron conforming to ASTM A-120 for all vent lines 2-1/2" or smaller.

2..1.2.3 Fittings (Waste and Vent System, no-hub cast iron): No-hub cast iron drainage pattern fittings conforming to CISPI #301-95.

2..1.2.4 Fittings (Waste and Vent, galvanized steel): Threaded cast iron fittings conforming to

2..1.2.5 Couplings (Waste and Vent, above and below grade): Double band, stainless steel couplings conforming to CISPI 310-95, with neoprene gasket conforming to ASTM Standard

2..1.2.6 Plastic: Subject to Architect approval, PVC piping conforming to ASTM D-2665-88 is acceptable for sanitary waste piping installed below grade or slab. Fittings: Drainage fittings to match pipe.

2..1.3 Gas Piping:

2..1.3.1 (Underground): All pipe, tubing, and fittings shall be polyethylene 2306/2406 conforming to ASTM D-1248 and D-3350 for P.E. 2306/2406.

2..1.3.2 (Above grade, exterior): All pipe sizes, black steel pipe, Schedule 40, wrought steel

2..1.3.3 (Above grade, inside building): Schedule 40 black steel. Pipe fittings shall conform to the following:

Pipe 2" and Smaller: Malleable iron threaded fittings

C564 (NOTE: Screened stainless shield is not approved).

Pipe 2-1/2" and Larger: Wrought steel buttwelded fittings.

2..1.3.4 Risers: All risers in the system from below grade shall be pre-manufactured anodeless type as manufactured by Central Maufacturing Co., Shawnee, OK, or approved equal.

2..1.4 Tracer Wire: Provide approved 14 gage copper (orange covered) tracer wire along all non metallic underground piping.

2..2 Pipe Hangers and Supports: Fee & Mason Figure 103 clevis hanger for insulated pipe and Figure 104 clevis hanger for cast iron pipe. Install #500 Trisolators on uninsulated copper lines at all hangers and wall penetrations.

2...3 Pipe Insulation: Use fiberglass premolded insulation with all-service jacket, minimum density of 3.5 pcf. Provide an additional 8-ounce canvas jacket with Arabol finish around all exposed pipe insulation. Cover fittings and valves (except unions) with insulation cement worked on in two applications to a smooth, hard surface, flush with pipe covering. Provide 8" long, 20 gauge, galvanized iron metal insulation guards at locations of hanger rods and supports. Provide 12" long riaid insulation blocks on bottom half of pipe 1" and larger at hangers. Insulation wall thickness shall conform to the following schedule:

Domestic Hot Water, Hot Water Recirculating Lines:

Mains and horizontal branches — 1" thickness. Drops in walls and partitions -1/2" thickness.

2..4.1 Gate Valves: Milwaukee 115, 125#, bronze body, solder type gate valve with nonrising stem for all lines up through 3" size.

2..4.2 Check Valves: Milwaukee #1509, 125#, bronze body, solder joint check valve with horizontal bronze disc for all valves up to 2" size. Milwaukee #F2974, 125#, iron body, bronze trimmed, flanged horizontal check valve for all valves larger than 2" size.

2..4.3 Shutoff Valve: Milwaukee BB1-350 bronze body, solder joint valve for all lines up through

2..5 Cleanouts:

2..5.1 Concrete and Tile Floors: J.R. Smith 4023, with scoriated nickel-bronze top.

2..5.2 Cleanouts (exposed vertical piping): J.R. Smith 4512 cast iron branch cleanout tee with bronze plug.

2..5.3 Interior Finished Walls: J.R. Smith 4532.

2..5.4 Exterior Surface Cleanouts: J.R. Smith 4253. Provide 18" x 18" x 6" concrete pad at landscape areas; provide concrete ring below grade at asphalt areas.

2..5.5 Provide all cleanouts with heavy threaded bronze plugs.

2..6 Plumbing Fixtures: Use polished chrome-plated, adjustable brass P-traps with wall escutcheons at all exposed locations. Use polished chrome-plated faucets with removable trim, brass body and brass handles. Fixtures and supply fitting shall be of one manufacturer. Provide diaphragm type, polished chromeplated flush valves with integral vacuum breakers and screwdriver stops. Provide fixture stops or valves ahead of all equipment or fixtures. After fixtures are set in place and secured to walls, caulk all around between fixtures and wall with either Dow Corning #780 or G.E. Construction Sealant white silicone caulking compound.

2..7 Acceptable Manufacturers: The following is a list of manufacturers whose equipment is acceptable as to manufacturer, subject to conformance with all drawings, specifications and

Plumbing Fixtures: American Standard.

Outdoor Drinking Fountains: Most Dependable Fountains.

Valves: Crane, Kennedy, Stockham, Grinnell, Milwaukee, Wolverine.

Shower Valves: Wolverine Brass

Supplies, Stops: Eastman, Kohler, Eljer, Brasscraft, McGuire.

P-Traps: Crane. Kohler, Eljer, Frost, McGuire.

Drains and Cleanouts: J. R. Smith, Zurn, Josam, Wade, Western.

Hangers: Grinnell, Fee & Mason, Elcen, Kin-Line, F & S, B-Line, Michigan.

EXECUTION

3..1 Tests and Inspections:

3..1.1 All work to be tested and approved before covering as directed by Architect. Remake all

leaking joints.

3..1.2 Water System: 125 psi hydrostatic pressure held for four hours.

3..1.3 Sanitary Waste and Vent System: Fill with water to highest point in the system and let stand without loss for two hours.

3..1.4 Gas System: Hold at 50 psi pneumatic for four hours with no pressure loss.

3..1.6 Sterilization (Domestic Water System): After tests have been completed, the entire domestic water distribution system shall be thoroughly flushed with water until all entrained dirt and mud have been removed, and shall be sterilized with solutions of either liquid chlorine conforming to Federal Specification BB-B-120 or hypochlorite conforming to Fed. Spec. 0-C-114, Type II, Grade G, or Fed. Spec. 0-S-602, Grade A or B. The chlorinating material shall privide a dosage of less than 50 parts per million and shall be introduced into the system in an approved manner, and retained in the system for 8 hours before flushing.

3..2 Flashing, Sleeves and Escutcheon Plates:

3..2.1 Flashing: Supply flashing for all vent pipe and other types of piping through roof to be installed with roofing. Flash vents with Stoneman S1300-4 or with sheet lead weighing not less than 4 pounds per square foot or equal. Extend flashing into roofing at least 10" from vent and turn flashing over and down into vent opening.

3..2.2 Sleeves: Use 20 gauge galvanized steel sleeves around pipes passing through masonry walls and concrete slabs.

3..2.3 Escutcheon Plates: Install cast brass split ring with setscrew at all locations where exposed pipes pass through walls, floors and/or ceilings. Provide polished chrome—plated escutcheons in finished rooms, all others polished brass

3..3 Underground Water Piping: Bury all underground water piping a minimum of 24" below finished grade.Install copper lines below concrete floors so that no joints occur below floor and wrap with 20 mils of polyethylene tape with a minimum of 50% overlap.

3..4 Electrical: Wiring by Electrical Contractor

MARK

WC-1

WC-2

U-1

L-1

SH-1

SH-2

DF-1

HB

DESCRIPTION

WATER CLOSET

WATER CLOSET (ADA)

URINAL (ADA)

LAVATORY (ADA)

SHOWER

SHOWER (ADA)

DRINKING FOUNTAIN (ADA)

HOSE BIBB

TRAP SIZE

INT.

1-1/4" x 1-1/2"

W

1-1/2"

1-1/2"

1-1/2"

1-1/2"

PLUMBING FIXTURE SPECIFICATIONS SYMBOL DESCRIPTION <u>WATER CLOSET:</u> FIXTURE: AMERICAN STANDARD 3351.101, WALL MOUNTED, SIPHON JET, 1.28 GALLONS PER FLUSH, VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP SPUD. SEAT: TOTO #534 WHITE OPEN FRONT SEAT WITH CONCEALED STAINLESS STEEL CHECK HINGE & WITHOUT COVER. FLUSH VALVE: SLOAN "OPTIMA" #8111-1.28, EXPOSED INFRARED BATTERY OPERATED SENSOR ACTIVATED CAST BRASS CHROME PLATED FLUSH VALVE, SLOW CLOSING, SELF CLEANING PISTON FLUSH MECHANISM WITH MECHANICAL OVERRIDE BUTTON; MAXIMUM FLUSH CYCLE OF 1.28 GPF; WITH FIELD ADJUSTABLE SENSOR RANGE. FURNISHED WITH SWEAT ADAPTER KIT AND FOUR (4) AA ALKALINE BATTERIES. CARRIER: J.R.. SMITH #0210 SERIES; COORDINATE WITH FITTING TYPE REQUIREMENTS. WATER CLOSET (ADA COMPLIANTO: SAME FIXTURE, FLUSH VALVE, CARRIER AND SEAT AS WC-1, EXCEPT MOUNT <u>WC-2</u> WITH BOWL HEIGHT AT 18" ABOVE FINISHED FLOOR TO MEET HANDICAPPED REQUIREMENTS. URINAL (ADA): FIXTURE: AMERICAN STANDARD 6581.015 WHITE VITREOUS CHINA WALL HUNG SIPHON JET URINAL WITH ELONGATED FLUSHING RIM, 3/4" TOP SPUD, J.R. SMITH #0615 WALL HANGER, 2" THREADED FEMALE OUTLET CONNECTION. FLUSH VALVE: SLOAN "OPTIMA" #8186, EXPOSED INFRARED BATTERY OPERATED SENSOR ACTIVATED CAST BRASS CHROME PLATED FLUSH VALVE, SLOW CLOSING, SELF CLEANING PISTON FLUSH MECHANISM WITH MECHANICAL OVERRIDE BUTTON: MAXIMUM FLUSH CYCLE OF 1.0 GPF: WITH FIELD ADJUSTABLE SENSOR RANGE. FURNISHED WITH SWEAT ADAPTER KIT AND FOUR (4) AA ALKALINE BATTERIES. MOUNT FIXTURE AT WHEELCHAIR HEIGHT (REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT). LAVATORY (COUNTERTOP-ADA COMPLIANT): FIXTURE: AMERICAN STANDARD 0476.028. 16" x 10" OVAL VITREOUS CHINA, SELF-RIMMING LAVATORY, FRONT OVERFLOW. FAUCET: SLOAN #EBF-650-BDT, SENSOR ACTIVATED FAUCET WITH THERMOSTATIC MIXING VALVE, AERATOR, SUPPLIES: EASTMAN C5RC-15-LK, ANGLE STOPS WITH FLEXIBLE TUBE RISERS. WASTE: McGUIRE 155WC OFFSET WHEELCHAIR LAVATORY STRAINER WITH GRID DRAIN, CAST BRASS ELBOW AND OFFSET TAILPIECE. TRAP: McGUIRE 8902, 1-1/4" x 1-1/2" CAST BRASS P TRAP. INSULATE EXPOSED WATER AND WASTE PIPING WITH TRUEBRO LAV-GUARD INSULATION KIT, MODEL 102, WITH ACCESSORY #105. <u>DRINKING FOUNTAIN (ADA COMPLIANT)</u>: FIXTURE: MDF MODEL No. 480EZWMSS, WALL MOUNTED BARRIER FREE SINGLE STATION DRINKING FOUNTAIN, ONE PIECE TYPE 304 SCHEDULE 10 STAINLESS STEEL, WELDED CONSTRUCTION WITH 18 GAUGE POLISHED STAINLESS STEEL RECEPTOR BOWLS, STAINLESS STEEL ANTI-SQUIRT BUBBLER HEADS (MOUNTED WITH LOCK NUT AND WASHER TO PREVENT TAMPERING), STAINLESS STEEL PUSH BARS AND HOUSING. ALL WORKING PARTS ACCESSIBLE THROUGH BOWL OF FOUNTAINS. UNIT FÜRNISHED WITH WATER SUPPLY (REINFORCED NYLOBRAID TUBING, LEAD-FREE AND NSF-61 CERTIFIED WITH 1/2" MIP THREADED INLET WITH STAINLESS STEEL STRAINER). PROVIDE WITH STAINLESS STEEL FITTINGS AND VALVES. UNIT FURNISHED COMPLETE WITH WALL CARRIER PLATE FOR ANCHORING TO A FINISHED WALL. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT. REMOTE CHILLER: CHILLING CAPACITY 8 GALLONS PER HOUR, NO-LEAD DESIGN, 1/5 HP / 115V. SHOWER: FIXTURE: TILE WALLS AND FLOORS BY GENERAL CONTRACTOR. PROVIDE J.R. SMITH #2005-B <u>SH-1</u> EPOXY COATED CAST IRON FLOOR DRAIN WITH 6" DIAMETER ADJUSTABLE NICKEL BRONZE STRAINER, CLAMPING COLLAR AND NO-HUB CONNECTION AT BOTTOM OF SHOWER. SHOWER VALVE: WOLVERINE BRASS #53671 WITH #85651 THERMOSTATIC BALANCING SHOWER VALVE WITH INTEGRAL CHECKSTOPS, HIGH LIMIT STOP, CHROME PLATED METAL TRIM, LOW FLOW 1.5 GPM SHOWER HEAD WITH ARM AND FLANGE. PROVIDE 2" P TRAP. SHOWER (HANDICAPPED ACCESSIBLE): FIXTURE: TILE WALLS AND FLOORS BY GENERAL CONTRACTOR. PROVIDE J.R. SMITH #2005-B, EPOXY COATED CAST IRON FLOOR DRAIN WITH 6" DIAMETER ADJUSTABLE NICKEL BRONZE STRAINER, CLAMPING COLLAR AND NO-HUB CONNECTION AT BOTTOM OF SHOWER. SHOWER VALVE: WOLVERINE BRASS #53671, THERMOSTATIC BALANCING SHOWER VALVE WITH INTEGRAL CHECKSTOPS, HIGH LIMIT STOP, CHROME PLATED METAL TRIM, LOW FLOW 1.5 GPM HAND SHOWER WITH INLINE VACUUM BREAKER, 24" SLIDE BAR, 60" METAL HOSE. PROVIDE 2" P TRAP. WATER HAMMER ARRESTER: SIOUX CHIEF "HYDRA-RESTER", WHERE REQUIRED IN PIPING SYSTEMS. SIZE FOR FIXTURE UNIT LOAD, WITH NESTING TYPE BELLOWS CONTAINED WITHIN, CASING AND BELLOWS SHALL BE CONSTRUCTED OF STABILIZED 18-8 STAINLESS STEEL. HOSE BIBB (FREEZE PROOF): WOODFORD MODEL No. MB65, CHROME PLATED FINISH, 3/4" HOSE CONNECTION <u>HB</u> WITH INTEGRAL VACUUM BREAKER, SELF-DRAINING, LOOSE TEE OPERATOR, ENCLOSED IN A FLUSH MOUNTED 14 GAUGE STAINLESS STEEL WALL BOX WITH LOCKABLE COVER.

FIXTURE CONNECTION SCHEDULE

CW

3/4"

1/2"

1/2"

1/2"

1/2"

3/4"

1/2"

1/2"

1/2"

REMARKS

SINGLE STATION

WITH INTEGRAL VACUUM BREAKER

FLUSH VALVE, WALL MOUNT

FLUSH VALVE, WALL MOUNT

WALL MOUNTED

COUNTERTOP

V

2"

2"

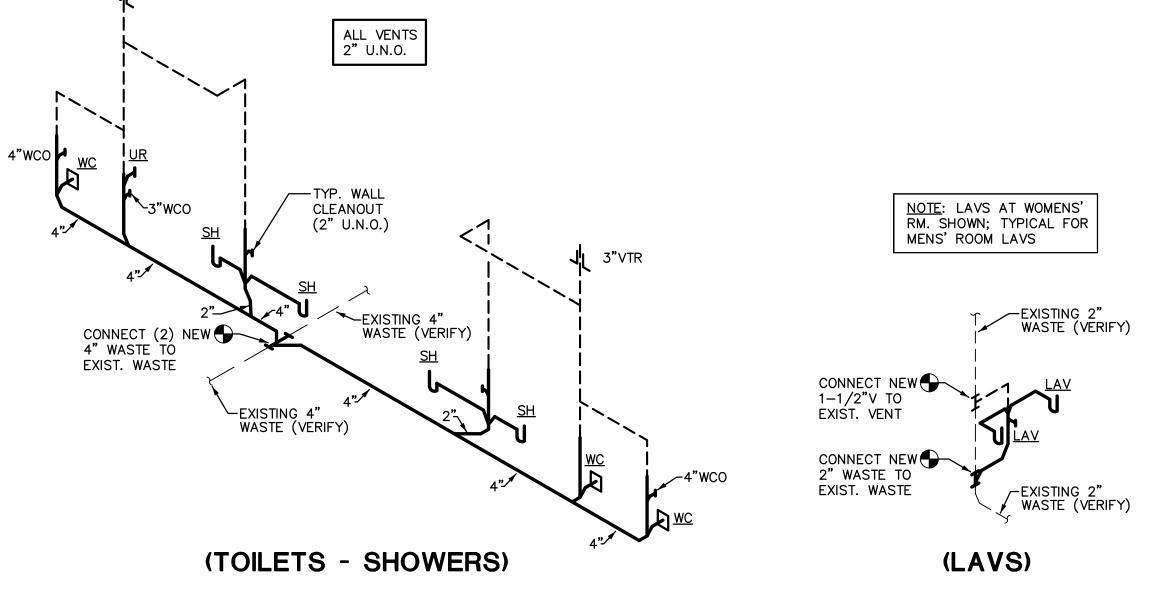
1-1/2"

1-1/2"

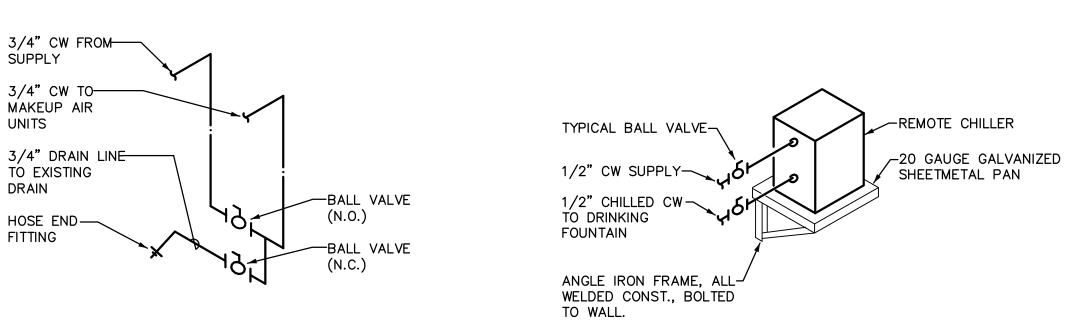
1-1/2"

1-1/2"

1-1/2"



WASTE AND VENT SCHEMATICS



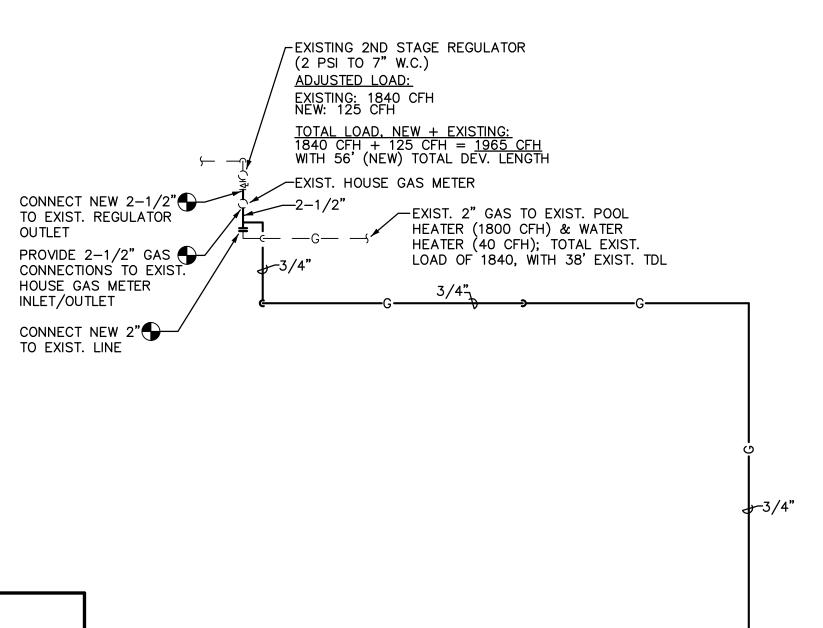
TYP. LUBRICATED

<u>FURNACE</u> (125 CFH, 56' E.L.)

GAS COCK

DRAIN DOWN SYSTEM FOR MAKEUP AIR UNIT

REMOTE CHILLER DETAIL



GAS PIPING NOTES:

MINIMUM DEPTH OF GAS PIPING TO BE 18" BELOW

2. GAS PIPING SHALL NOT BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING.

3. GAS PIPING SHALL NOT RUN IN HOLLOW CORE OF

4. PROVIDE SHUT-OFF COCK, UNION AND 6" LONG DIRT LEG WITH CAP AT EACH GAS LINE DROP TO APPLIANCE.

5. ALL GAS USING EQUIPMENT TO BE NATURAL FUEL.

6. DO NOT USE FLEXIBLE PIPE CONNECTIONS TO EQUIPMENT.

7. ALL GAS PIPING UNDER ASPHALT OR CONCRETE PAVING ADJOINING BUILDING MUST BE SLEEVED IN GAS TIGHT PIPE (SCHEDULE 40 PVC PIPE), SLEEVE SIZE SHALL (MINIMUM) 2 PIPE SIZES LARGER THAN THE GAS PIPE.

8. ALL GAS PIPING, MATERIALS, VALVES, FITTINGS, INSTALLATION AND TESTING SHALL COMPLY WITH CHAP. 4, INTERNATIONAL FUEL GAS CODE.

9. VERIFY ALL GAS BTU/H INPUTS WITH ACTUAL BTU/H INPUT OF APPLIANCE SUPPLIED.

10. ALL GAS LINES INSTALLED THROUGH CMU WALLS, ETC., SHALL BE SLEEVED WITH STEEL PIPE A MINIMUM OF (2) (TWO) PIPE SIZES LARGER THAN THE GAS PIPE.

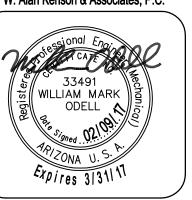
GAS PIPING SIZED PER 2012 IFGC, TABLE G2413.4(1), WITH 56' TOTAL DEVELOPED LENGTH.

GAS PIPING DIAGRAM



Desian Group, LLC Consulting Engineers 611 West Delano Ave Prescott, AZ 86301 Project 11759 N. 143rd Ave. Surprise, AZ 85379 (928) 443.7353 #16103 (623) 444-6143 REVISIONS

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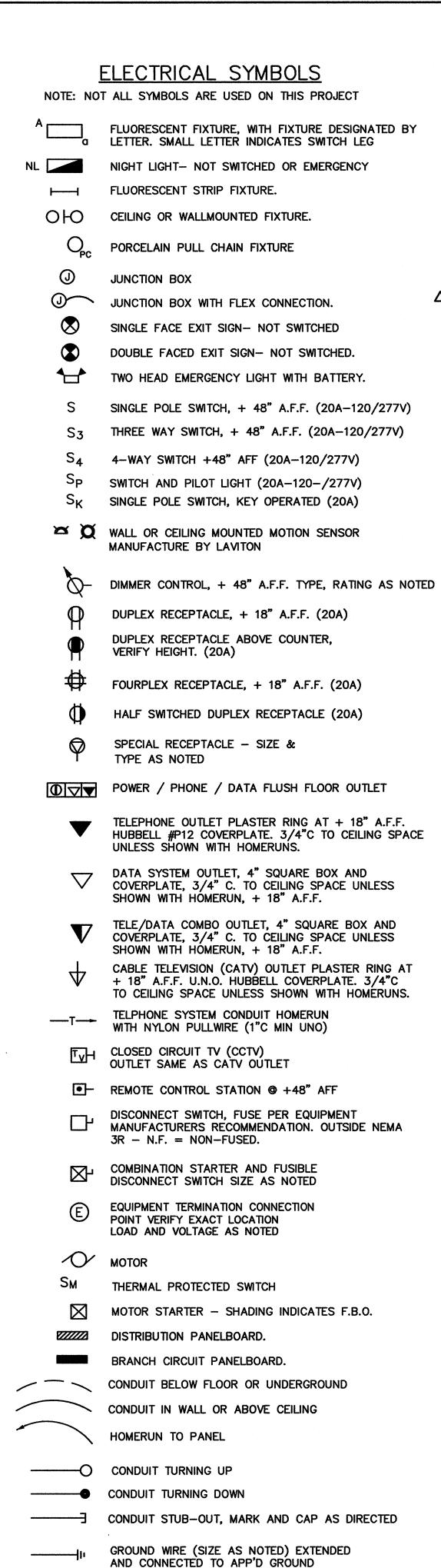
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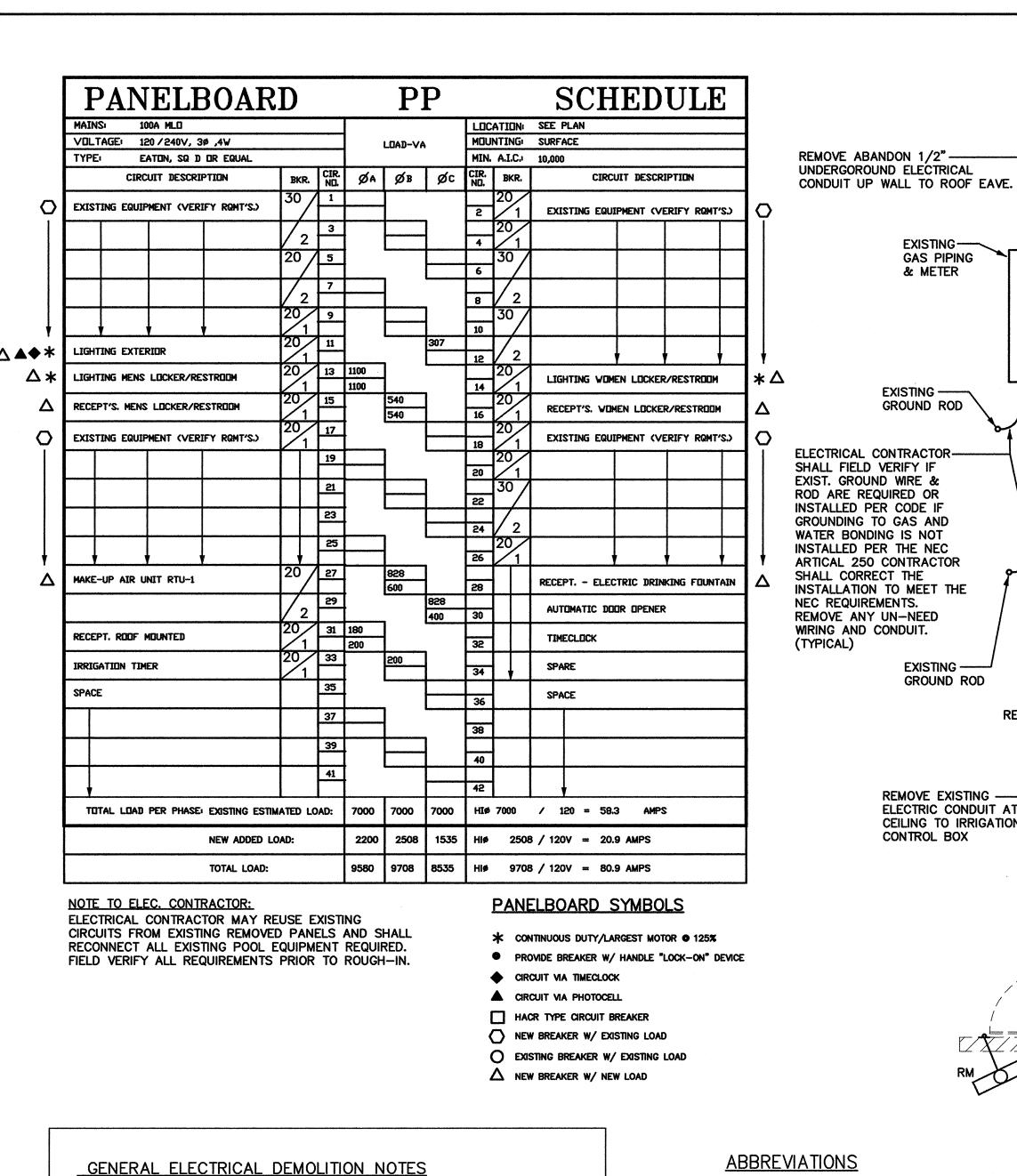
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RETURN REMOVED MATERIAL DEEMED SALVAGEABLE TO OWNER'S REPRESENTATIVE.

MATERIALS DEEMED NOT SALVAGEABLE SHALL BE REMOVED FROM THE PREMISES.

THE CONTRACTOR WILL EXAMINE THE PREMISES AND SATISFIED HIMSELF AS TO EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO PERFORM HIS WORK.
THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND THE CONTRACTOR SHALL

REMOVE ALL EXISTING WIRING DEVICES, LIGHT FIXTURES, WIRE, CONDUIT, DISCONNECTS, ETC., AS NOTED OR INDICATED WITHIN DEMOLITION AREA. (ALL ITEMS MAY NOT BE SHOWN.) REWORK AS NECESSARY ALL CIRCUITING WHICH REQUIRES CONTINUATION THROUGH THE AREA.

REMOVE/RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT SUCH THAT ELECTRIC SHOCK

HAZARDS TO WORKMEN ARE ELIMINATED DURING DEMOLITION AND NEW CONSTRUCTION.

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED TO

REMOVED OR DAMAGED CONDUIT, WIRE AND FITTINGS SHALL NOT BE RE-USED

WORK REQUIRED FOR EXISTING EQUIPMENT NOTED AS "EXISTING TO BE REMOVED"

A. SALVAGING OR DISPOSING OF ALL MATERIAL OR EQUIPMENT AS DIRECTED BY

REMOVAL OF FEEDER OR CABLING FROM EQUIPMENT TO POINT OF FEED.

REMOVAL OR RECIRCUITING (AS REQUIRED OR AS NOTED ON PANELS) OF ALL

REPAIR AND PATCHING OF WALLS, FLOORS AND CEILINGS TO MATCH EXISTING

CAPPING OF FEEDER CIRCUITS AT 6" ABOVE OR BELOW THE FLOOR OR CEILING

FOR IN-SLAB CONDUITS LOCATED UP NEXT TO A WALL OR FOR CEILING AREA

SWITCHBOARDS, PANELBOARDS, ETC., SHALL BE MARKED USING AN ENGRAVED

EXISTING FEEDER CONDUITS SHALL BE REMOVED OR CUT OFF AND ABANDONED IF

FOUND TO BE UNSALVAGEABLE BY THE OWNER, ARCHITECT OR ENGINEER.

EXISTING EQUIPMENT NOT IMPICITLY SHOWN ON THE DRAWINGS IS INTENDED TO BE

F. CAPPING OF IN-SLAB FEEDER CONDUITS FLUSH WITH THE FINISHED FLOOR.

H. THE OPPOSITE END LOCATION OF ALL EMPTY FEEDER CONDUITS AT

FIELD VERIFY ALL DETAILS OF DEMOLITION.

OWNER OR OWER'S REPRESENTATIVE.

OR PER ARCHITECT'S INSTRUCTIONS.

BRASS TAG ATTACHED TO THE CONDUIT.

"EXISTING TO REMAIN, " UNLESS NOTED OTHERWISE.

D. REMOVAL OF ALL FITTINGS, SUPPORTS, BRACKETS, ETC.

BRANCH CIRCUITING.

CONDUITS.

SHALL INCLUDE:

ABBREVIATIONS EXISTING LIGHT OR DEVICE TO REMAIN RE EXISTING LIGHT OR DEVICE TO BE REPLACE OR RELOCATED

> RELOCATED LIGHT OR DEVICE RM REMOVED LIGHT OR DEVICE

A.F.F. ABOVE FINISHED FLOOR (C OF OUTLET) ABOVE FINISHED GRADE (G OF OUTLET)

EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.

E.C. **EMPTY CONDUIT** UNO UNLESS OTHERWISE NOTED

FURNISHED BY OTHERS **NIGHT LIGHT TYPICAL**

NO ELECTRICAL WORK IN THIS AREA UNDER THIS PERMIT - REMOVE IRRIGATION CONTROL WIRING -EXISTING EXTERIOR WALL PACK TO BE REMOVED, RETURED TO OWNER AND REPLACED WITH NEW AS SPECIFIED (TYP. OF 3) 30 SERVICE DISC. SW. WITH 'SES' CABINET - TEXISTING EMERGENCY ___ | PHONE BOX ALL LIGHTING SHALL BE **₹** IF J RE CONTROLLED WITH NEW MOTION SENSORS ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING SWITCHES. - RELOCATED EMERGENCY PHONE BOX AND REFEED WITH POWER & DATA AS CURRENTLY EXISTS. **Lighting & Power Demo Floor Plan** NOTE: EXIST. SERVICE CABINET W/METER 1.) ALL SUB-PANELS, SERVICE EQUIPMENT, 100 A-120/240V -3 PHASE -4 WIRE AND EQUIPMENT DISCONNECTS SHALL BE PROVIDED WITH THE WORKING NEMA 3R BRACED FOR 10,000 AIC MIN. CLEARENCES REQUIRED BY THE ELECTRICAL CONTRACTOR SHALL FIELD LATEST ADOPTED NEC VERIFY EXISTING EQUIPMENT.

GROUNDING IS

FIELD VERIFY

ELECTRICAL CONTRACTOR SHALL

ADDITIONAL WORK ADDED. MAKE

ANY NECESSARY MODIFICATIONS REQUIRED TO MEET ALL NEC

EQUIPMENT IS ADEQUATE FOR

FIELD VERIFY & CONFIRM ELECTRICAL

EXIST. ONE LINE DIAGRAM

EXISTING

EXISTING ---

REQUIREMENTS.

N.T.S.

GENERAL NOTE:

ELECTRICAL CONTRACTOR SHALL

(TYPICAL FOR ROOM 100 & 101)

ON SHEET E1.2

EXISTING-GAS PIPING

& METER

EXISTING -GROUND ROD

> EXISTING -GROUND ROD

REMOVE EXISTING -

CONTROL BOX

ELECTRIC CONDUIT AT

CEILING TO IRRIGATION

RE O

REMOVE ALL EXISTING LIGHT FIXTURES

AND REPLACE WITH NEW AS INDICATED

- REMOVE EXISTING

NOTE TO CONTRACTOR:

ELECTRICAL CONTRACTOR

SHALL FIELD VERIFY EXIST.

GROUNDING INSTALLATION

INSTALLED PER CODE. IF

GROUNDING TO GAS AND WATER BONDING IS NOT

INSTALLED PER THE NEC

SHALL CORRECT THE

NEC REQUIREMENTS.

REMOVE ANY UN-NEED

WRING AND CONDUIT.

(TYPICAL)

ARTICAL 250 CONTRACTOR

INSTALLATION TO MEET THE

TO BUILDING SERVICE WAS

CONDUIT

ELECTRICAL CONTRACTOR SHALL

ELECTRICAL CONTRACTOR

SHALL RELOCATE EXISTING

PHOTOCELL AS DIRECTED

BY OWNER/ARCHITECT. —

REMOVE ALL ABANDONED OR UNUSED

CONDUIT & WIRING ECT. BACK TO PANEL.

ELECTRICAL EQUIPMENT ROOM

-EXIST.

100A/3P FUSED DISC. SW.

- EXIST. REUSE EXISTING

EQUIPMENT TO

EXISTING 2-12 CIRCUIT

WITH NEW 42 CIRCUIT

120/240V 3ø PANEL 'PP'

TO BE REPLACED

22,000 A.I.C.

120/240V. 1¢ PANELS 'A' & 'B'

NEW PANEL 'PP'

RECONNECT EXIST

CONDUCTORS & CONDUIT

RM RM

REVISIONS ELECTRICAL DESIGN & CADD SERVICES INC. 1600 LAMB LANE PRESCOTT, AZ. 86305 PH. (928) 776-4900 FAX (928) 776-7800 These drawings are the property of E-MAIL: EES@CABLEONE.NET W. Alan Kenson & Associates P.C and may not be reproduced in any way without the written consent of ELECTRICAL CONTRACTOR SHALL W. Alan Kenson & Associates, P.C REMOVE EXISTING GUTTERS, PANELS AND ELECTRICAL EQUIPMENT NOT REQUIRED REPLACE WITH NEW PANEL AND CLEANUP (FIELD VERIFY WORK REQUIRED PRIOR TO BID.) CENSION. a Soci

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DRAWN BY R.A. CHECKED BY A.O. DATE 1-23-2017 JOB NO. **696**

SPECIFICATIONS

- 1. PRIOR TO SUBMITTING BID, SUBCONTRACTORS SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- 2. THE SUBCONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
- 3. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
- 4. PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
- 5. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
- 6. BRANCH CIRCUIT WIRING SHALL BE THHN/THWN INSULATION. PANEL FEEDERS SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL
- 7. ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- 8. PROVIDE CODE SIZED BOND WIRE IN ALL EMT, FLEXIBLE CONDUIT, OR NM CABLES.
- 9. ALL ELECTRICAL EQUIPMENT SHALL BE NEW , U.L. APPROVED AND COMMERCIAL
- 10. WIRE RATED FOR 150° CENTIGRADE SHALL BE USED FOR ALL INCANDESCENT LIGHTING FIXTURES.
- 11. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL
- 12. PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

FIRE WALL/FLOOR PENETRATION

ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALL-ATION DETAIL THAT CONFORM TO UNDERWRITERS LABOR-ATORY'S LISTINGS FOR THROUGH PENETRATION FIRESTOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE WITH THE LISTING TO THE ARCHITECT AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE LOCAL GOVERNING INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

> ALL WIRING #6 AWG AND LARGER SHALL BE XHHW COPPER. #8 AWG AND SMALLER SHALL BE THHN/THWN COPPER

DUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT SVITCHES RECEPTACLES +18" (MIN.) TELEPHONE/DATA +18" (MIN.) SIDE REACH +54" (MAX)

ABBREVIATIONS

- EXISTING LIGHT OR DEVICE TO REMAIN
- EXISTING LIGHT OR DEVICE TO BE REPLACE OR RELOCATED EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.
- RELOCATED LIGHT OR DEVICE
- REMOVED LIGHT OR DEVICE
- ABOVE FINISHED FLOOR (G OF OUTLET)
- ABOVE FINISHED GRADE (G OF OUTLET)
- **EMPTY CONDUIT**
- UNLESS OTHERWISE NOTED
- FURNISHED BY OTHERS
- **NIGHT LIGHT**
- TYP **TYPICAL**

GENERAL LIGHTING NOTES:

- . CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL LIGHTING FIXTURES AND SWITCHES WITH OWNER/ARCHITECT PRIOR
- 2. EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.
- 3. ROMAX IS NOT ALLOWED.

GENERAL POWER NOTES:

- CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES WITH ENG., OWNER OR ARCHITECT PRIOR TO ROUGH-IN.
- 2. ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING CIRCUITS WHENEVER POSSIBLE.
- 3. ALL RECEPTACLES IN AREAS WITH-IN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
- 4. EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC
- 5. VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- 6. ELECTRICAL CONTRACTOR SHALL PROVIDE COVER PLATES FOR ALL UNUSED OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS, FIELD VERIFY DEVICE NOT USED

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REVISIONS

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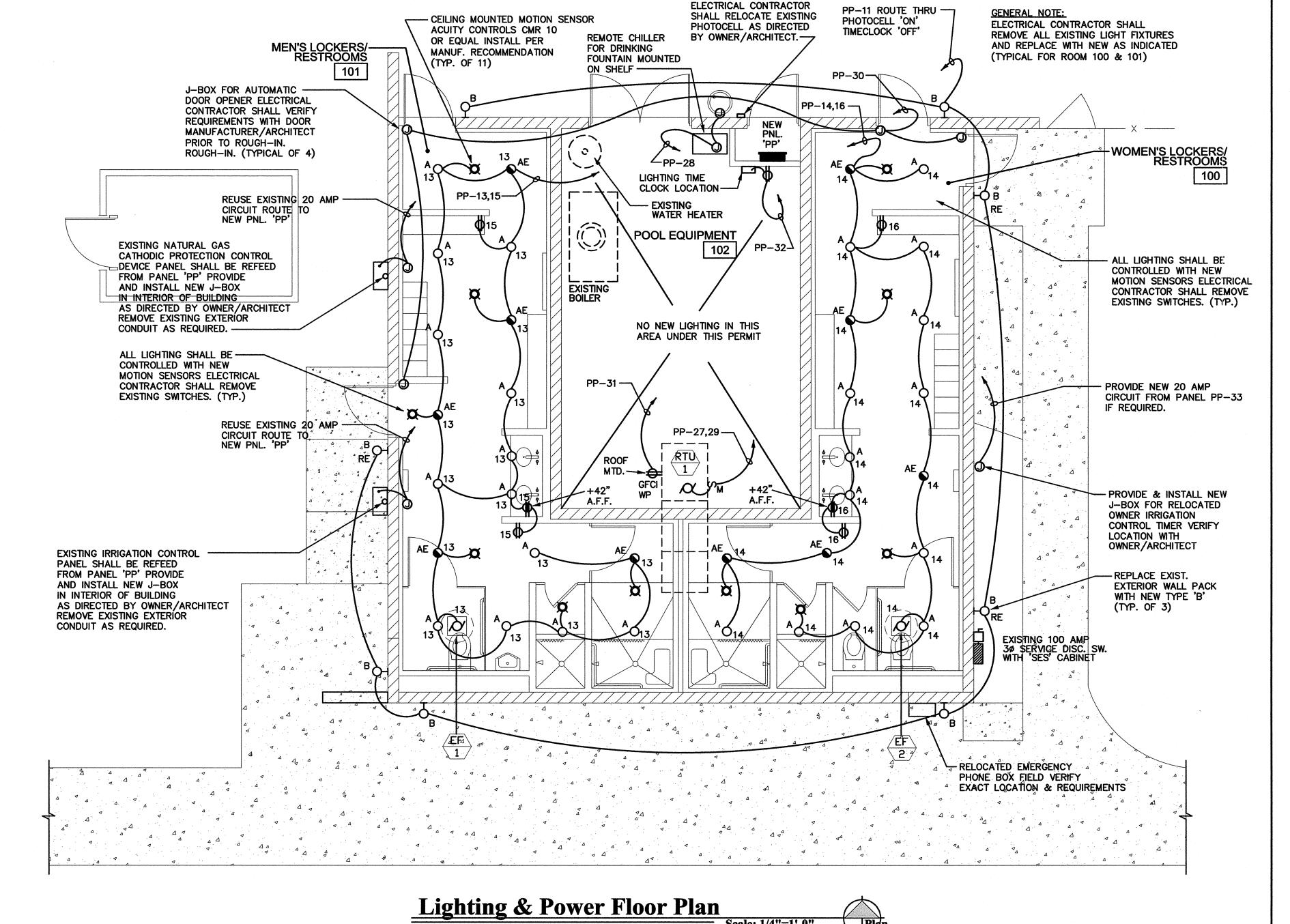
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CHECKED BY A.O. DATE 1-23-2017



Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Wattage
\bigcirc	Α	Lithonia Lighting	LDN6 40/10 LO6AR LSS MVOLT EZ10	1000LM 80CRI 4000K 6" LED COMMERCIAL DOWNLIGHT	LED	1	LDN6_40_10_LO6AR.ies	1089	17.97
	AE	Lithonia Lighting	LDN6 40/10 LO6AR LSS MVOLT EZ10 EL	1000LM 80CRI 4000K 6" LED COMMERCIAL DOWNLIGHT W/ BATTERY PACK	LED	1	LDN6_40_10_LO6AR.ies	1089	17.97
Ю	В	Spaulding Lighting Laredo Series	LMC-30LU-3K-3-1 MVOLT 40K	LED EXTERIOR WALL LUMINAIRE	LED	1		2632	35.00