

P24BP08154 D2 11-27-2024

APPROVED

GENERAL REQUIREMENTS

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE, AS LOCALLY AMENDED, AND ALL APPLICABLE CODES \$
- OMISSIONS OR CONFLICTS BETWEEN YARIOUS ELEMENTS OF THE DRAWING, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK,
- DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
- REMOVE ALL MATERIALS RESULTING FROM DEMOLITION WORK FROM THE SITE IN SUCH A MANNER AS TO AVOID CREATING A NUISANCE. STOCKPILE ANY SALVAGED ITEMS PER OWNER'S REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR DISPOSE OF ALL SALVAGED ITEMS TO AN OFF SITE PROPERTY LOCATION.
- THE CONTRACTOR OR SUBCONTRACTOR SHALL INSPECT THE PREMISES PRIOR TO COMMENCING WORK TO CHECK EXISTING WORKING CONDITIONS, SHOULD CONTRACTOR OR SUBCONTRACTOR FIND CONDITIONS WHICH HE BELIEVES WOULD IMPEDE HIS WORK, THEN SUCH CONDITIONS MUST BE REPORTED IMMEDIATELY TO THE ARCHITECT. FAILURE TO SO ADVISE WILL CONSTITUTE NOTICE THAT THE CONTRACTOR IS FULLY SATISFIED AND THAT HE INTENDS TO PERFORM HIS OBLIGATIONS WITH NO ALLOWANCE EITHER IN TIME OR MONEY FOR ANY IMPEDIMENTS TO HIS WORK.
- CONTRACTOR SHALL YERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD. IF DIMENSIONAL ERRORS OCCUR, OR CONDITIONS NOT COVERED ON THE DRAWINGS IS ENCOUNTERED, CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE COMMENCING THAT PORTION OF THE WORK.
- DETAILS, NOTES AND FINISHES SHALL BE APPLICABLE TO ALL TYPICAL CONDITIONS, WHETHER OR NOT REFERENCED AT ALL PLACES. WHEN WORK NOT SPECIFICALLY CALLED OUT IS REQUIRED TO COMPLETE THE PROJECT, IT SHALL BE PROVIDED AND BE OF THE BEST MATERIALS AND WORKMANSHIP.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGES THROUGHOUT CONSTRUCTION. HE SHALL MEET THE LATEST REQUIREMENTS OF THE UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH STANDARDS AND COMPLY WITH: THE MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION, ALL APPLICABLE SAFETY AND SANITARY LAWS, REGULATIONS AND ORDINANCES, AND ANY SAFETY RULES OR PROCEDURES ESTABLISHED BY THE ARCHITECT AND/OR THE OWNER FOR THE PROJECT.
- THE CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR LOSS OR EXPENSE RESULTING FROM INJURY ON THE PROJECT SITE. HE ASSUMES ALL RISKS IN THE PERFORMANCE OF THE WORK AND IS RESPONSIBLE FOR SUPERVISION, MATERIALS, EQUIPMENT AND LABOR REQUIRED TO IMPLEMENT THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPERVISION, SAFETY, ADMINISTRATION AND ALL PHASES OF ITS CONTRACT. HE IS ALSO RESPONSIBLE FOR SCHEDULING, COORDINATING, MANAGEMENT AND ADMINISTRATION OF SUB-CONSULTANTS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES AND PROTECT THEM.
- ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED AND CONDITIONED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS OR INSTRUCTIONS UNLESS HEREINAFTER SPECIFIED TO THE CONTRARY.
- ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER, ACCEPTABLE TO THE ARCHITECT.
- UNLESS OTHERWISE SPECIFICALLY NOTED, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, TRANSPORTATION, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, ETC. NECESSARY FOR PROPER COMPLETION OF WORK (U.N.O.). THE CONTRACTOR SHALL FILE ALL APPLICATIONS REQUIRED AND PROCURE ALL PERMITS.
- THE CONTRACTOR WARRANTS TO THE OWNER THAT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT WILL BE NEW UNLESS OTHERWISE SPECIFIED, AND THAT ALL WORK WILL BE GOOD QUALITY, FREE FROM FAULTS AND DEFECTS, AND IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. ALL WORK NOT CONFORMING TO THESE STANDARDS MAY BE CONSIDERED DEFECTIVE. IT IS UNDERSTOOD THAT NO INFERIOR OR NON-CONFORMING WORK OR MATERIALS WILL BE ACCEPTED WHETHER DISCOVERED AT THE TIME THEY ARE INCORPORATED IN THE WORK OR AT ANY TIME BEFORE OR AFTER FINAL ACCEPTANCE. IF REQUIRED BY THE OWNER OR ARCHITECT, THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND EQUIPMENT.
- THE WARRANTIES AND GUARANTEES PROVIDED IN THE CONSTRUCTION DOCUMENTS SHALL BE IN ADDITION TO AND NOT IN LIMITATION OF ANY OTHER WARRANTY OR GUARANTY OR REMEDY REQUIRED BY LAW OR BY THE CONSTRUCTION DOCUMENTS.
- THE ARCHITECT'S AND ENGINEER'S OBSERVATION FOR COMPLIANCE WITH THE PLANS AND SPECIFICATIONS SHALL NOT BE DEEMED SUPERVISION OR CONTROL OF CONSTRUCTION MEANS OR METHODS EMPLOYED BY THE CONTRACTOR OR ANY SUBCONTRACTOR.
- PROVIDE WOOD BLOCKING SUPPORT AT ALL SURFACE MOUNTED ITEMS MOUNTED TO FACE OF GYPSUM WALLBOARD WALLS.
- CAULK ALL JUNCTURES BETWEEN DIFFERENT MATERIALS.

GREEN VALLEY RECREATION CENT WEST CENTER'S NEW OFFICES

1111 SOUTH GVR DRIVE • GREEN VALLEY, ARIZONA 85614

TENANT IMPROVEMENT

CODE REVIEW

SUMMARY OF GOVERNING REGULATIONS

CODE	TITLE	EDITION	LOCAL AMENDMENTS
BUILDING CODE	IBC	2018	YES
EXISTING BUILDING CODE	IEBC	2018	YES
ACCESSIBILITY CODE	ICC/ ANSI A117.1	2017	
MECHANICAL CODE	IMC	2018	YES
ELECTRICAL CODE	NEC	2017	YES
PLUMBING CODE	IPC	2018	YES
FIRE CODE	IFC	2018	YES
ENERGY CONSERVATION CODE	IECC	2018	YES

GENERAL BUILDING SUMMARY (FOR REFERENCE)

BUILDING	OCCUPANCY GROUP(S)	TYPE OF CONSTRUCTION	SPRINKLER SYSTEM	BUILDING AREA/HEIGHT/ NO. OF STORIES	BUILDING AREA/HEIGHT/ NO. OF STORIES
BUILDING EXISTING BLDG.				REQUIRED	ACTUAL
	A-2 ASSEMBLY (NOT IN SCOPE OF WORK)	IIB	YES	38,000 SQ. FT. 75'-0" HIGH 3 STORIES	± 673 SQ. FT. ± 28'-0" HIGH 1 STORY
	A-3 ASSEMBLY (NOT IN SCOPE OF WORK)	IIB	YES	38,000 SQ. FT. 75'-0" HIGH 3 STORIES	± 16,573 SQ. FT. ± 28'-0" HIGH 2 STORIES
	B BUSINESS (GUEST SERVICES THIS PROJECT)	IIB	YES	69,000 SQ. FT. 75'-0" HIGH 4 STORIES	± 754 SQ. FT. ± 28'-0" HIGH 1 STORY

PROJECT DIRECTORY

ARCHITECT

(520) 327-7611

SEAVER / FRANKS ARCHITECTS INC, A.I.A. 2552 NORTH ALVERNON WAY TUCSON, ARIZONA 85712

(520) 795-4000

CONTACT: RICHARD HUCH

MECHANICAL / PLUMBING ENGINEER

KC MECHANICAL ENGINEERING, LLC 5447 EAST FIFTH STREET - SUITE 112 TUCSON, ARIZONA 85711

CONTACT: RUBY O'BRIEN-METZGER PABLO ZAMORA

ELECTRICAL ENGINEER

CC ELECTRICAL CONSULTING, LLC 5551 SOUTH WHITE MOUNTAIN ROAD - SUITE 2538 SHOW LOW, ARIZONA 85901 (602) 400-1792

CONTACT: JEFFREY CLARK

SCOPE OF WORK

THE SCOPE OF WORK FOR THIS PROJECT INVOLVES THE REMODEL OF THE EXISTING LOBBY SPACE TO NEW OFFICE SPACES AT THE GREEN VALLEY RECREATION CENTER'S WEST CENTER'S BUILDING. INCLUDED IN THE SCOPE OF THIS WORK WILL BE ALL MECHANICAL, PLUMBING AND ELECTRICAL WORK AS REQUIRED.

DEFERRED SUBMITTALS

FIRE SPRINKLERS

SPECIAL INSPECTIONS

a. NONE

SHEET INDEX

ARCHITECTURAL

1.	A0.0	GENERAL INFORMATION
} 2.	A1.0	OVERALL EXIT PLAN
`3.	D2.0	DEMOLITION FLOOR PLAN AND DEMOLITION CEILING PLAN
4.	A2.0	REFERENCE FLOOR PLAN AND REFLECTED CEILING PLAN
5.	A3.0	ENLARGED PLAN AND INTERIOR ELEVATIONS
6.	A4.0	GENERAL AND ACCESSIBILITY DETAILS
7.	A5.0	DOOR/WINDOW TYPES, DETAILS, AND DOOR/FINISH SCHEDULES

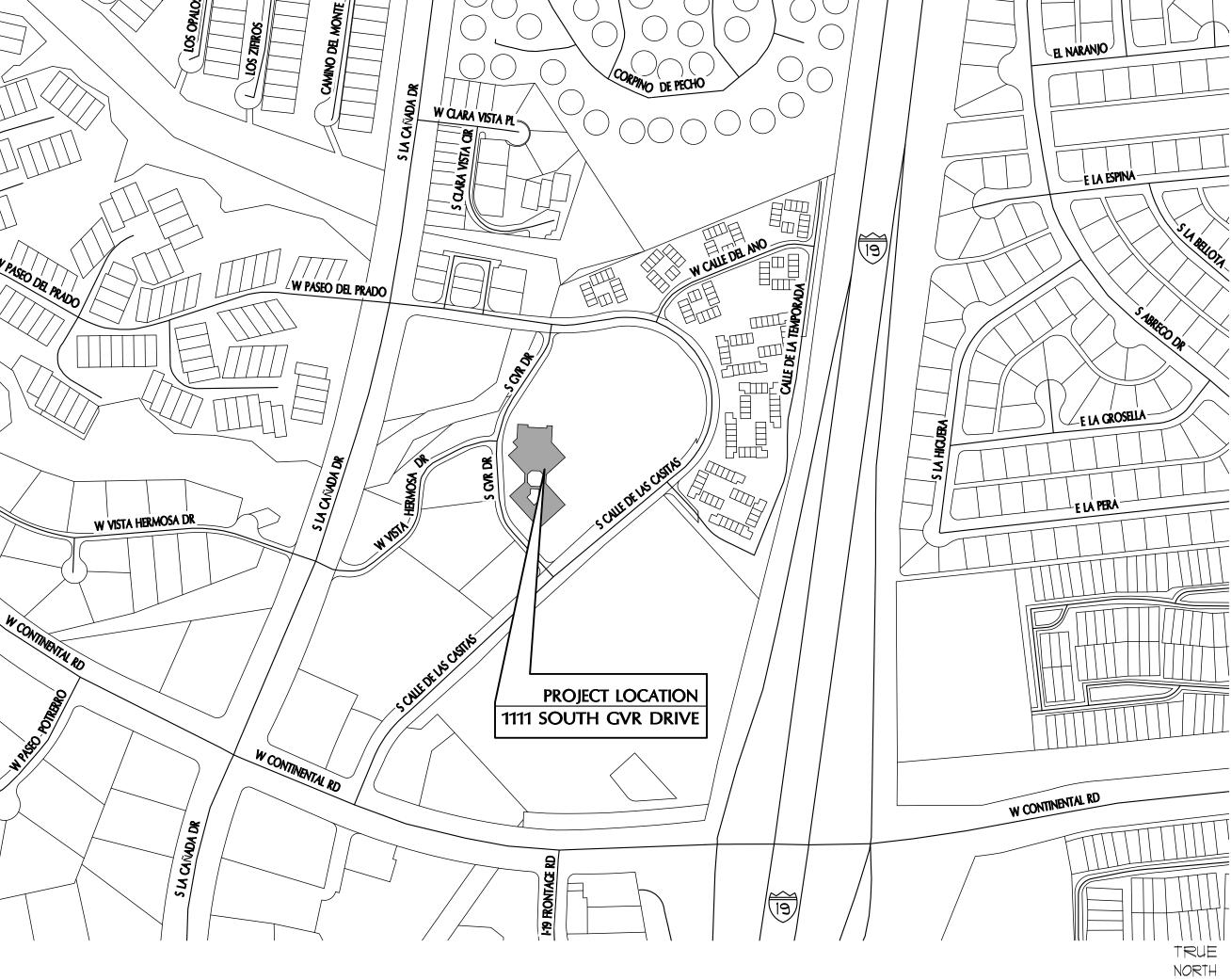
COMCHECK AND PANEL SCHEDULE

ELECTRICAL SPECIFICATIONS

MECHANICAL

8.	MD1.0	MECHANICAL DEMOLITION PLAN
9.	M1.0	MECHANICAL NEW WORK PLANS
10.	M2.0	MECHANICAL SCHEDULES & DETA
11.	MP1.0	DIVISION 15 SPECIFICATIONS
12.	PD1.0	PLUMBING DEMO PLAN

ELEC	<u> </u>	
13.	ED1.0	ELECTRICAL DEMO PLANS
14.	E1.0	ELECTRICAL POWER AND LIGHTING PLAN







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- EXISTING SOUND BOOTH

(± 175 SQ.FT.)

EXIT PLAN (SECOND FLOOR)

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

175/150: 2 OCC 1 EXIT REQUIRED

I EXIT PROVIDED

COMMON PATH OF EGRESS TRAVEL: 15'-4"

COMMON PATH OF EGRESS TRAVEL: 15'-4'

116/150: 1 OCC + 2 GUESTS = 3 OCC

(± 116 SQ.FT. NET)

I EXIT REQUIRED

1 EXIT PROVIDED

COMMON PATH OF EGRESS TRAVEL: 18'-4"

OFFICE —

∠OFFICE

(± 116 SQ.FT.)

I EXIT REQUIRED

I EXIT PROVIDED

COMMON PATH OF EGRESS TRAVEL: 18'-4"

3 OVERALL EXIT PLAN (GROUND FLOOR) (TOTAL OCCUPANCY: 2+5+3+9+2+23+4+61+48+35+111+676+45 = 1,024 OCCUPANTS)

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

116/150: 1 OCC + 2 GUESTS = 3 OCC

A2.Ø

- EQUIPMENT SEE DETAIL 11/A4.0.
- D. REFER TO THE FINISH MATERIAL DESCRIPTION TABLE ON

LEGEND

NOT IN SCOPE OF WORK



REVISIONS

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C. ALL FURNITURE TO BE FURNISHED AND INSTALLED BY OWNER.

SHEET A5.0 FOR FINISHES SPECIFICATIONS.





EXISTING STORAGE (± 740 SQ.FT. NET)

/740/300: 3 OCC/

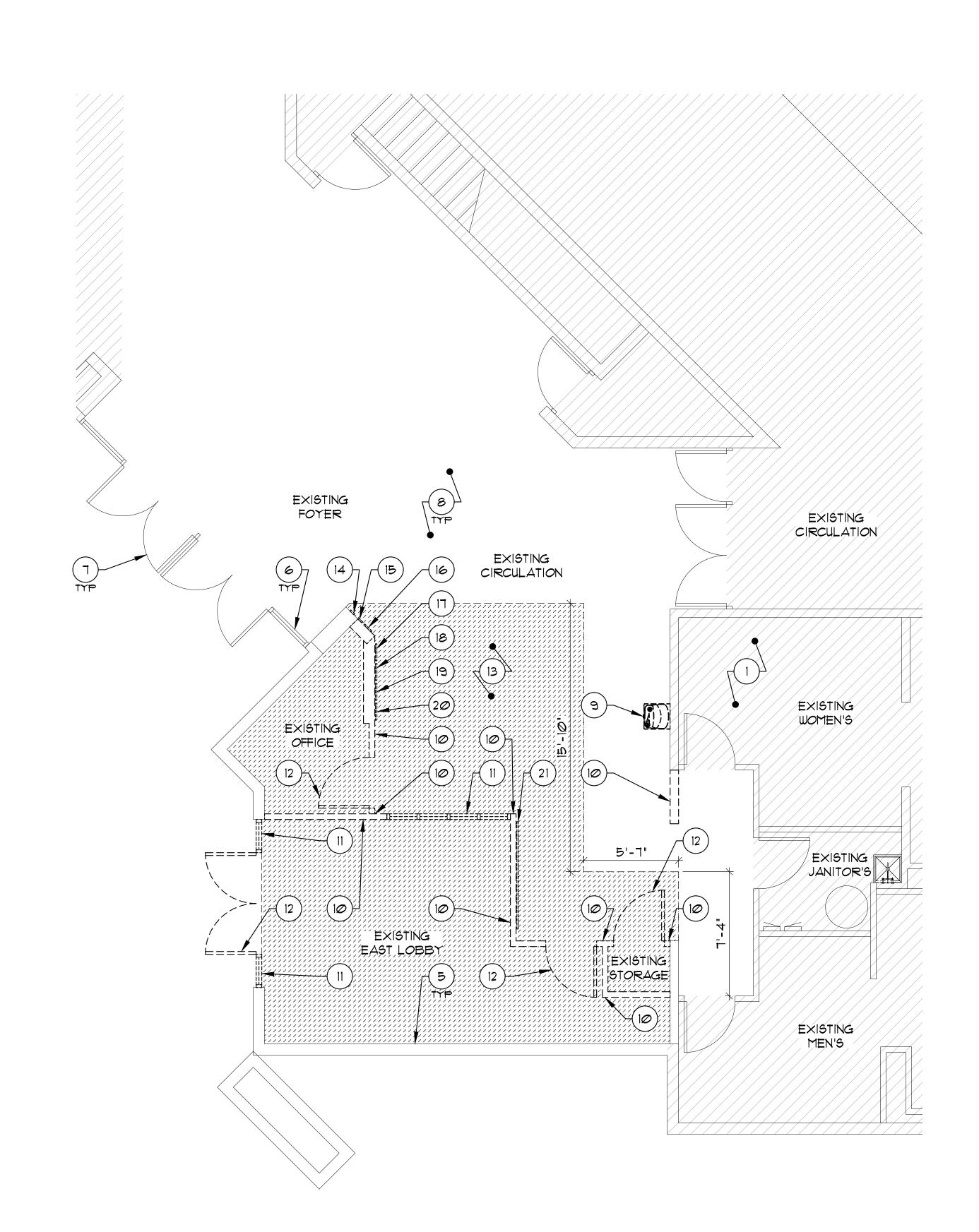
I EXIT REQUIRED I EXIT PROVIDED

COMMON PATH OF EGRESS TRAVEL: 41'-1'

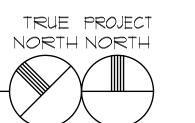
TRUE PROJECT NORTH NORTH

EXIT PLAN (SECOND FLOOR)

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



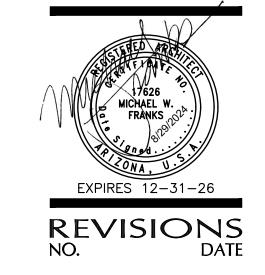






C. REMOVE ANY FLOORING AS REQUIRED.

GENERAL NOTES



DEMOLITION PLAN KEYNOTES

THIS AREA NOT IN SCOPE OF WORK.

EXISTING CEILING TO REMAIN. EXISTING SOFFIT TO REMAIN.

EXISTING LIGHT FIXTURE TO REMAIN.

EXISTING WALL TO REMAIN. EXISTING STOREFRONT SYSTEM TO REMAIN.

EXISTING DOOR TO REMAIN.

EXISTING FLOORING FINISH TO REMAIN. EXISTING DRINKING FOUNTAIN TO BE REMOVED.

10. EXISTING WALL TO BE REMOVED. EXISTING WINDOW TO BE REMOVED.

EXISTING DOOR TO BE REMOVED.

EXISTING FLOORING FINISH TO BE REMOVED. 14. EXISTING FIRE ALARM PULL STATION TO BE REMOVED

AND RELOCATED. 15. EXISTING WALL PLAQUE TO BE REMOVED AND

RELOCATED. 16. EXISTING LIGHT SWITCHES TO BE REMOVED AND

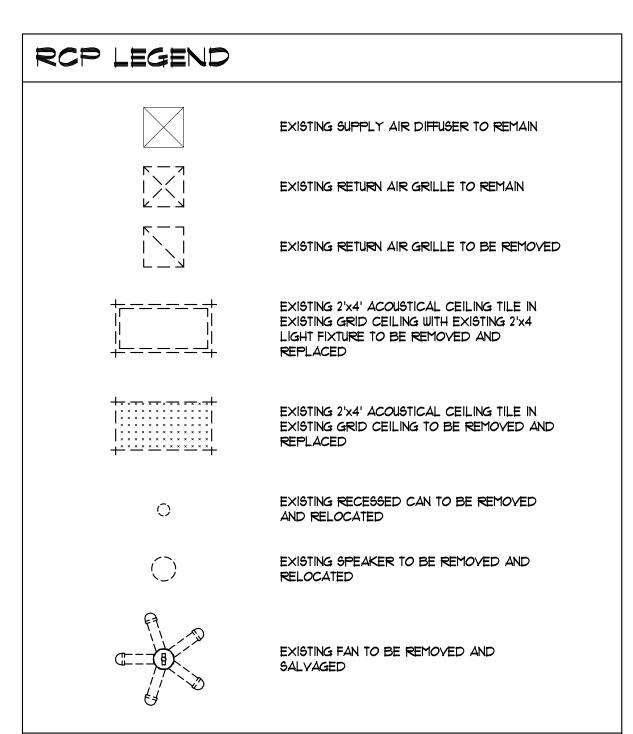
RELOCATED. 17. EXISTING FIRE EXTINGUISHER CABINET TO BE REMOVED AND RELOCATED.

18. EXISTING WALL MOUNTED BOX TO BE REMOVED AND RELOCATED.

19. EXISTING SECURITY ALARM PANEL TO BE REMOVED AND RELOCATED.

20. EXISTING DEFIBRILLATOR BOX TO BE REMOVED AND RELOCATED.

21. EXISTING BULLETIN BOARD TO BE REMOVED AND RELOCATED.





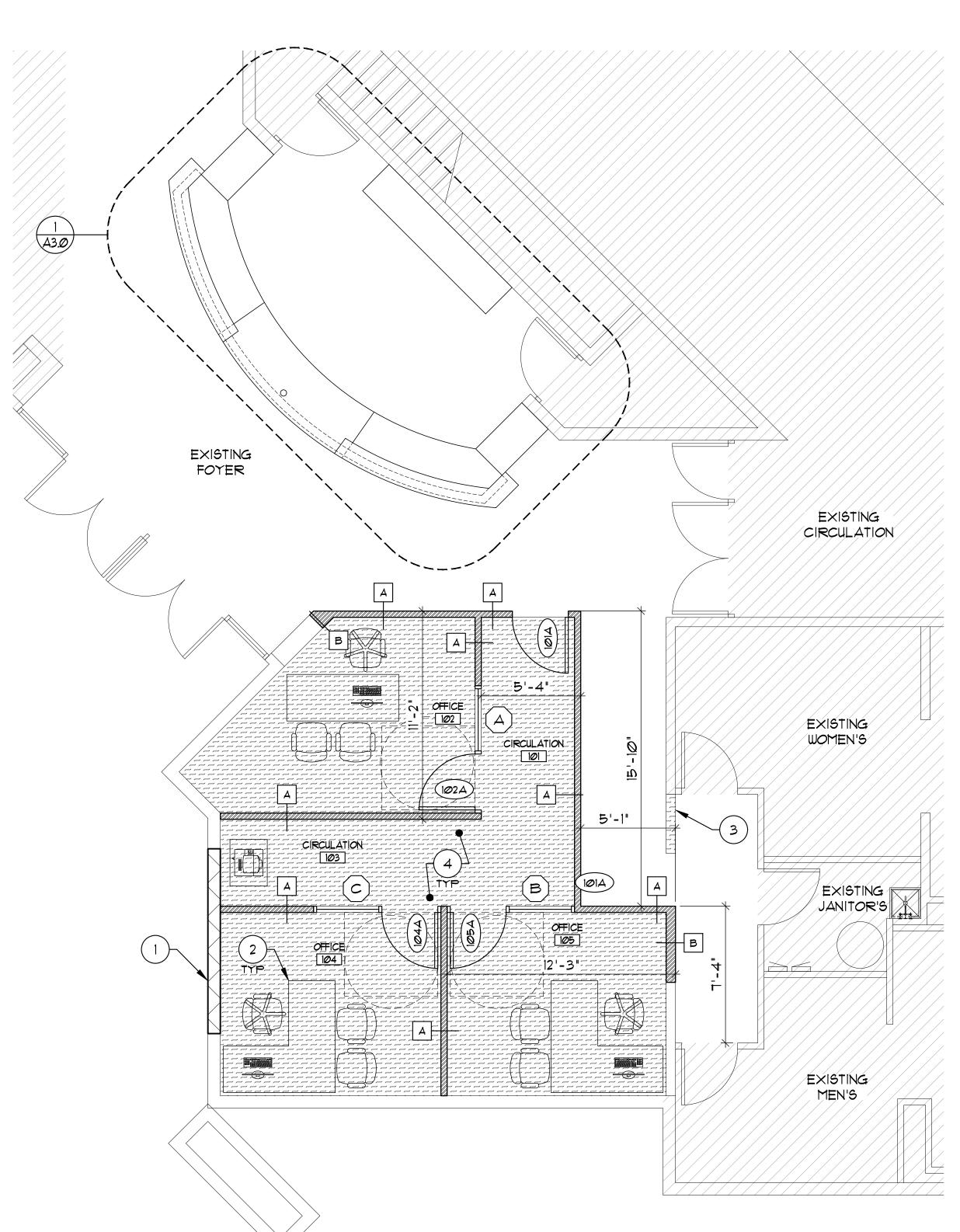
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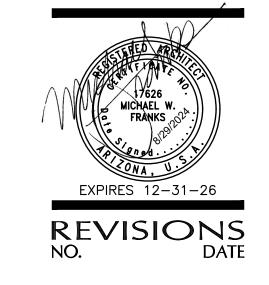


TRUE PROJECT NORTH NORTH

REFERENCE FLOOR PLAN

GENERAL NOTES

- A. FIELD VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION.
- B. PROVIDE BACKING AS REQUIRED FOR ALL WALL MOUNTED
- EQUIPMENT SEE DETAIL 11/A4.0. C. ALL FURNITURE TO BE FURNISHED AND INSTALLED BY OWNER.
- D. REFER TO THE FINISH MATERIAL DESCRIPTION TABLE ON SHEET A5.0 FOR FINISHES SPECIFICATIONS.



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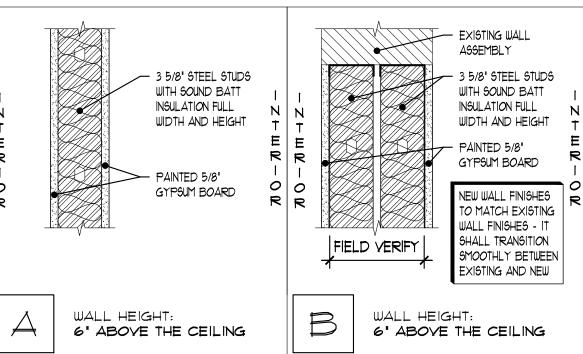
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PLAN KEYNOTES

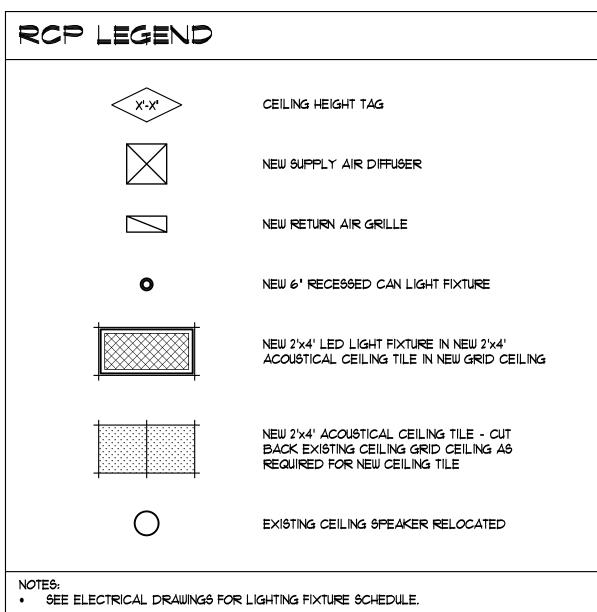
- 1. INFILL OPENING WITH CONCRETE MASONRY UNITS AND MATCH THE EXISTING EXTERIOR AND INTERIOR FINISH. 2. NEW FURNITURE BY OWNER.
- NEW FLOORING WHERE EXISTING WALL USED TO BE. 4. NEW FLOORING - REFER TO FINISH SCHEDULE ON SHEET A5.Ø.

WALL TYPES

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



- I. HEIGHT LIMITATIONS AND STUD PROPERTIES BASED ON INFORMATION PROVIDED IN THE STEEL STUD MANUFACTURERS ASSOCIATION HANDBOOK, VALUES ARE FOR INTERIOR NON-STRUCTURAL NON-COMPOSITE PARTITIONS WITH A 5 PSF LOAD AND L/240 DEFLECTION FACTOR.
- PROVIDE 4" STUDS AT PARTITIONS WITH 4" COLUMNS. PROVIDE SLIP TRACK AT ALL INTERIOR FULL HEIGHT WALLS, ESPECIALLY AT THE PRE-ENGINEERED METAL BUILDING AREAS. PROVIDE TYPE 'X' GYPSUM BOARD AT ALL RATED PARTITIONS.
- PROVIDE DRYWALL CONTROL JOINTS (AMICO DEEP 'V' WITH REMOVABLE TAPE OR SIMILAR). JOINTS ARE TO BE PLACED AT DRYWALL EXPANSES EXCEEDING 30'-0' IN LENGTH. PROVIDE CONTROL JOINTS IN CEILINGS TO LIMIT AREAS TO 2,500 SQUARE FEET AND IN ORDER TO LIMIT DIMENSIONS IN EITHER DIRECTION TO 50'-0".



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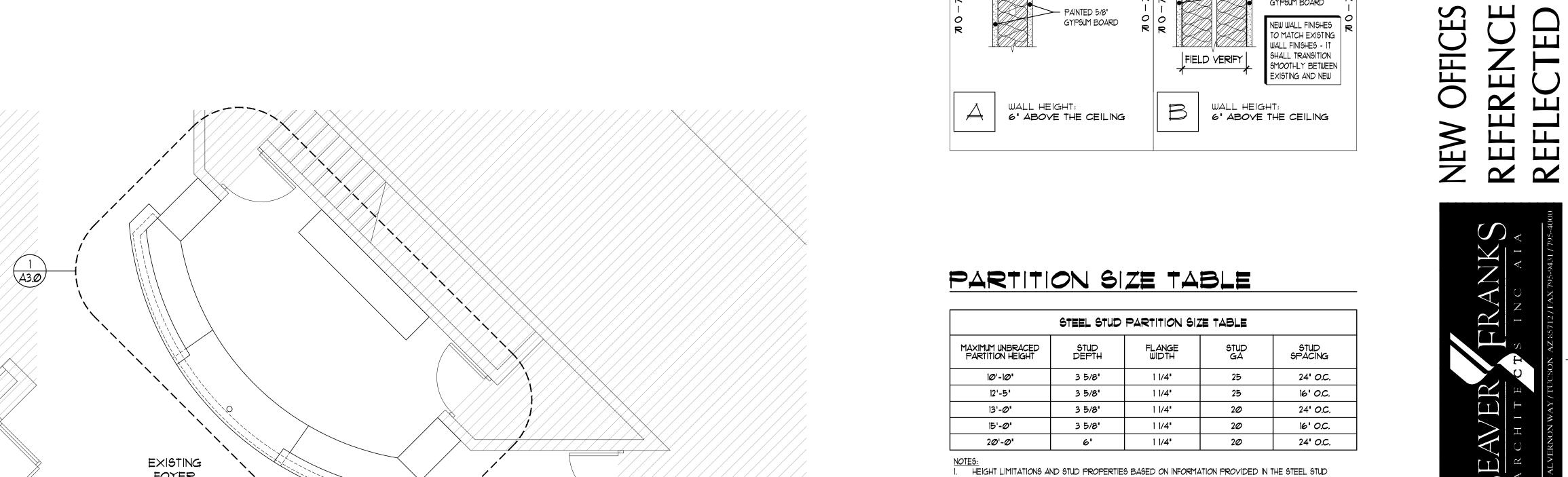
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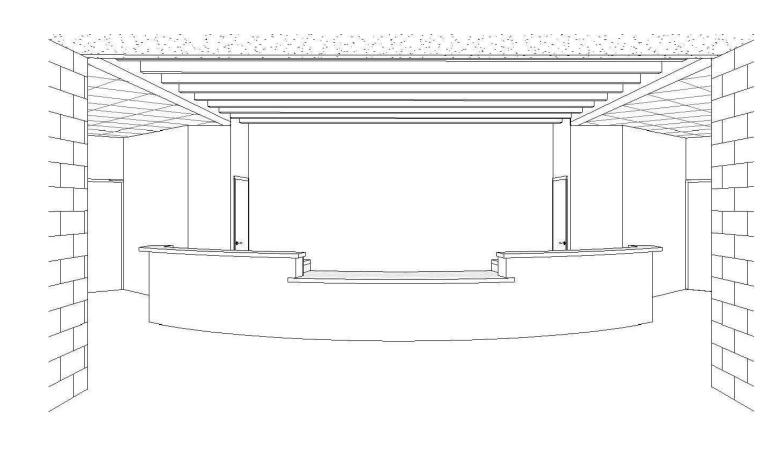


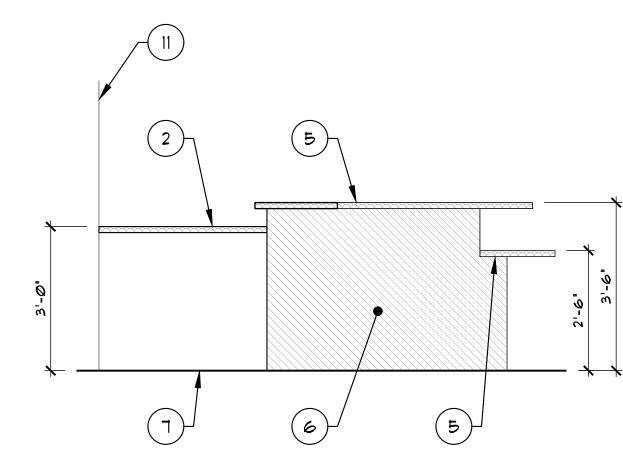


REFLECTED CEILING PLAN) SCALE: 1/4" = 1'-0"

6 INTERIOR ELEVATION

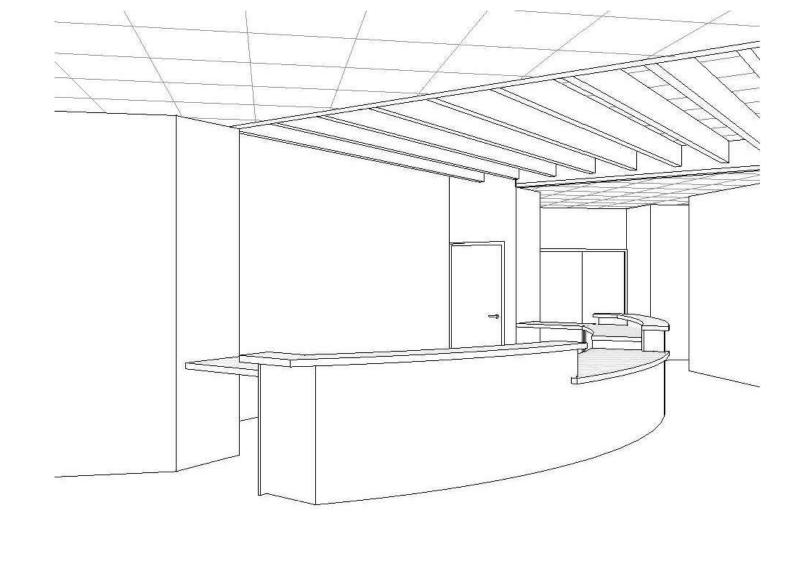
SCALE: 1/2" = 1'-0"

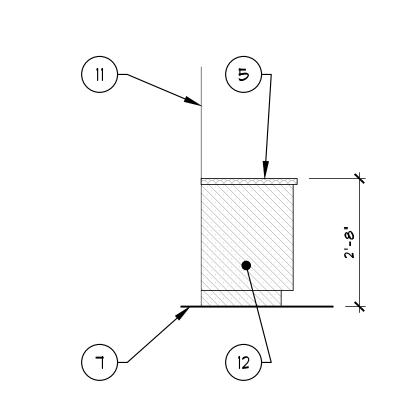








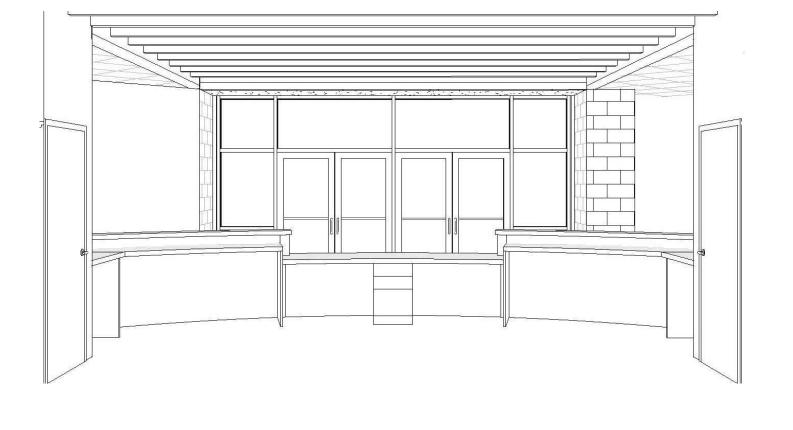


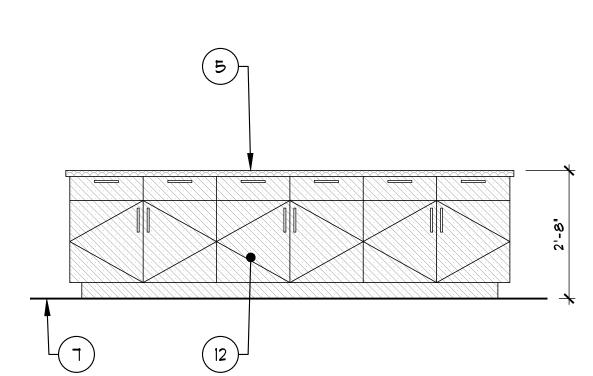


SCALE: NOT TO SCALE

1NTERIOR ELEVATION

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







5 INTERIOR ELEVATION

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

GENERAL NOTES

- A. FIELD VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION. B. PROVIDE BACKING AS REQUIRED FOR ALL WALL MOUNTED
- EQUIPMENT SEE DETAIL 11/A4.0. C. ALL FURNITURE TO BE FURNISHED AND INSTALLED BY OWNER.
- D. PAINT EXISTING WALL AS REQUIRED.
- E. REPLACE EXISTING FLOORING AND WALL BASE AS REQUIRED
- IN THE AREA WHERE THE NEW RECEPTION DESK SHALL BE.
- F. ALTERNATE PRICING: PROVIDE PLASTIC LAMINATE FINISH ON THE COUNTERTOPS AND FLIP TOPS.
- COUNTERTOPS). 5. SOLID SURFACE COUNTERTOP.
- 6. PLASTIC LAMINATE ON WALL ASSEMBLY, AS SPECIFIED ON KEYNOTE 4.

SOLID SURFACE COUNTERTOP ON PLASTIC LAMINATE

2. SOLID SURFACE FLIP TOP BY MILLWORK FABRICATOR.

3. SOLID SURFACE COUNTERTOP ON PLASTIC LAMINATE

4. 3 5/8" STEEL STUD FRAMING WITH 5/8" GYPSUM BOARD

WALL ASSEMBLY - DASHED IN (UNDER THE

AND PLASTIC LAMINATE FINISH ON BOTH SIDES OF

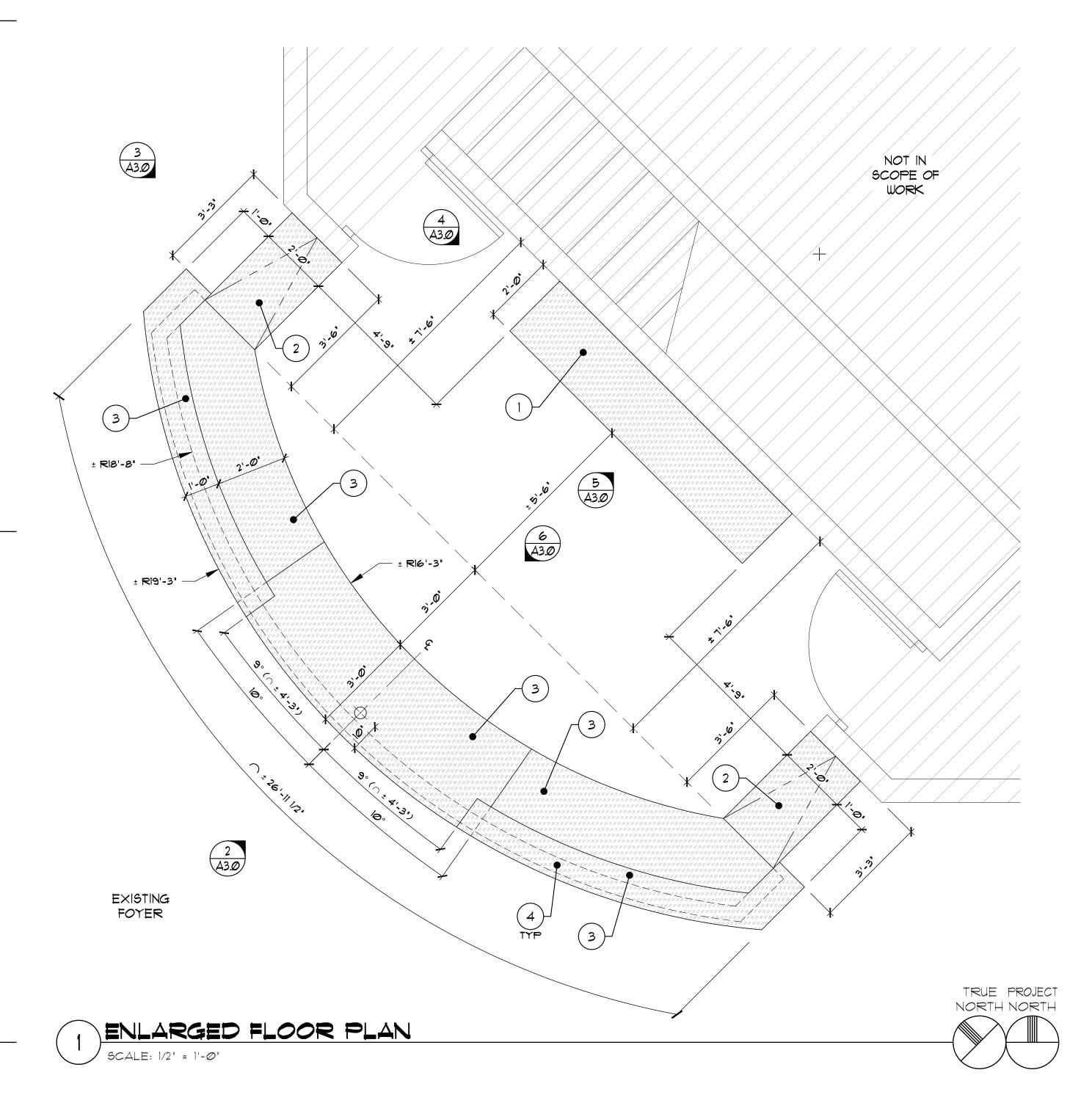
- EXISTING FLOOR FINISH REFER TO GENERAL NOTE E.
- 8. PLASTIC LAMINATE END PANEL NO ACCESS THIS
- 9. PLASTIC LAMINATE PANEL.

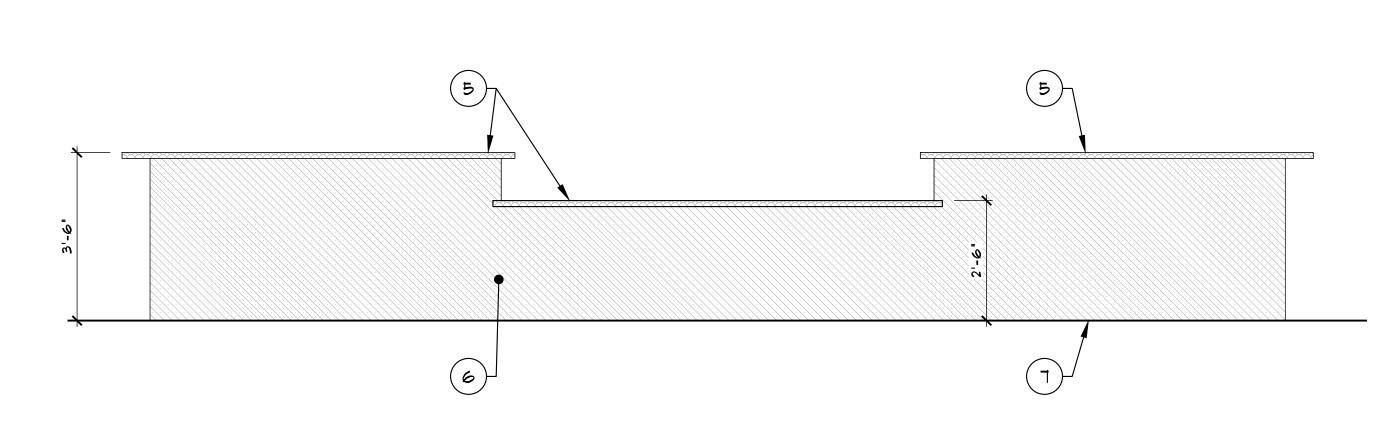
* PLAN KEYNOTES

BASE CABINETS.

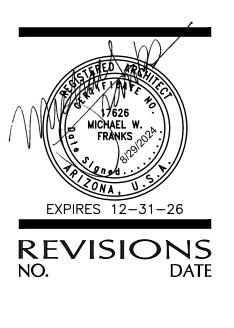
RECEPTION DESK.

- 10. PLASTIC LAMINATE CABINETS. EXISTING WALL ASSEMBLY - REFER TO GENERAL NOTE
- 12. PLASTIC LAMINATE BASE CABINETS.





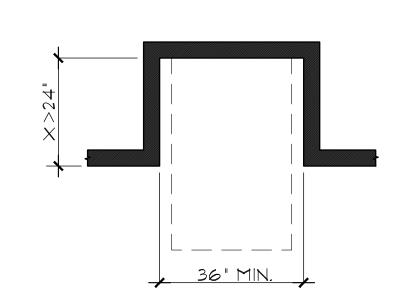
2 INTERIOR ELEVATION

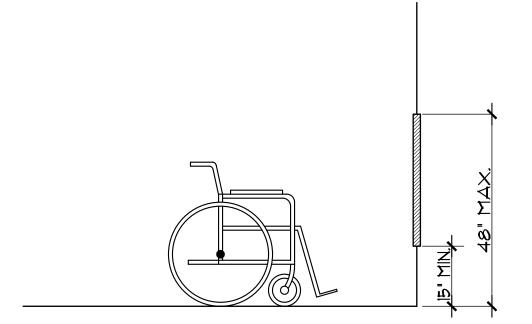


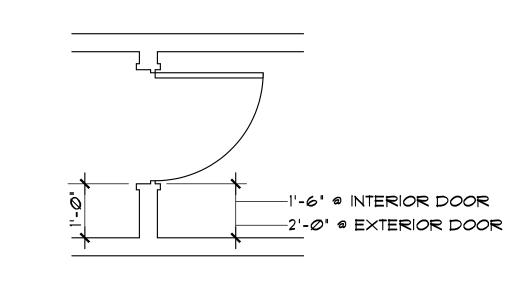
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85614 RECREATION

ISSUE DATE Ø8-3Ø-2Ø24 PROJ. NO. 3709.11 DRG. SCALE AS NOTED







DIAGRAMMATIC 2x2 LAY-IN CEILING PLAN

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

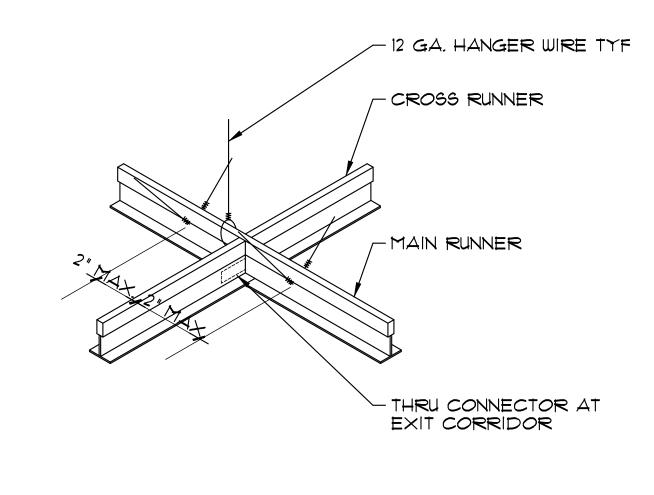
SCALE: 1/2" = 1'-0"

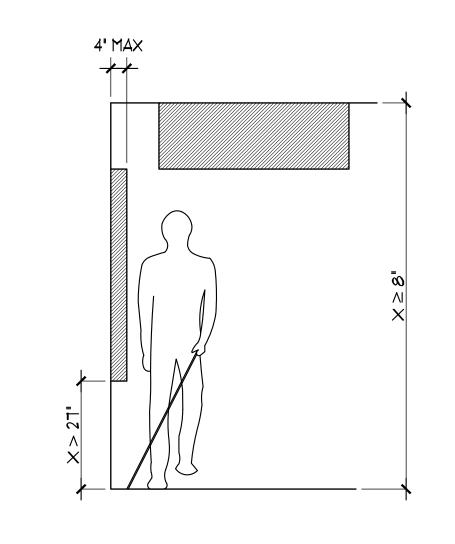
UNOBSTRUCTED FORWARD REACH

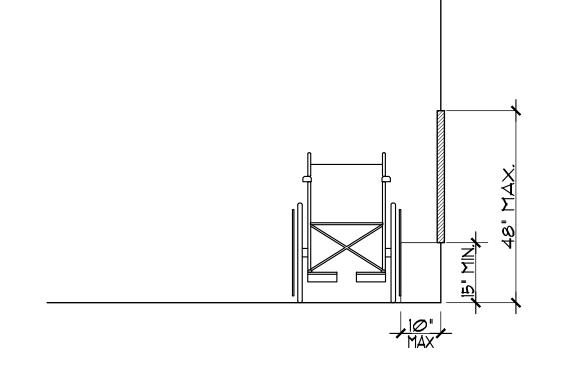
SCALE: 1/2" = 1'-0"

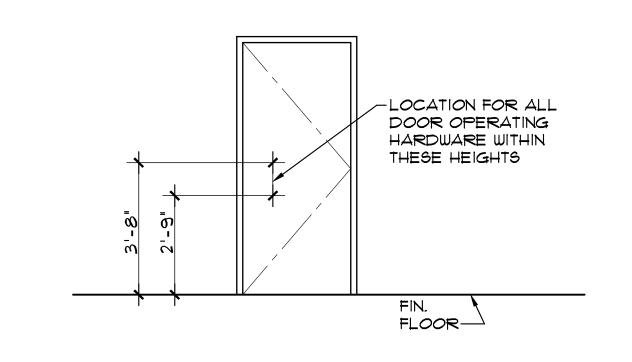
DOOR CLEARANCE REQUIREMENT

SCALE: 3/8" = 1'-0"









ACOUSTIC CEILING CROSS CONNECTION

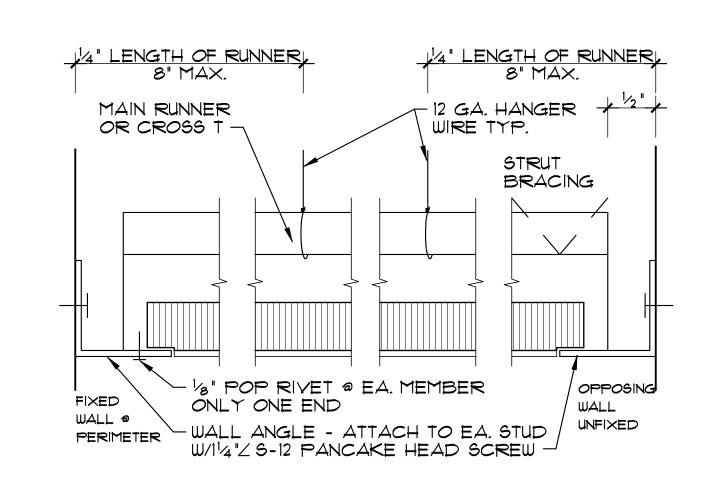
SCALE: 3" = 1'-0"

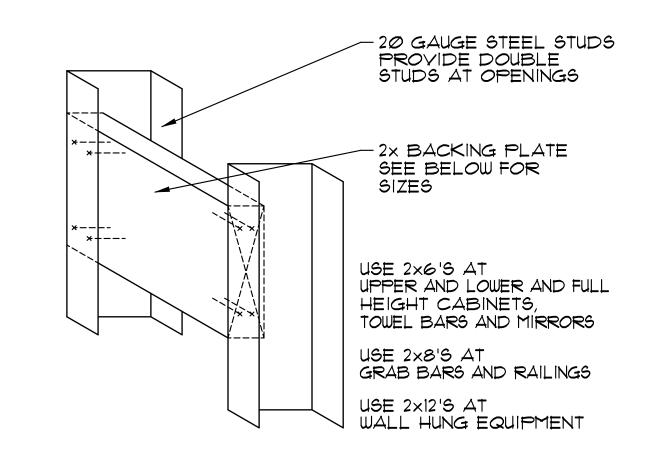
LIMITS OF PROTRUDING OBJECTS

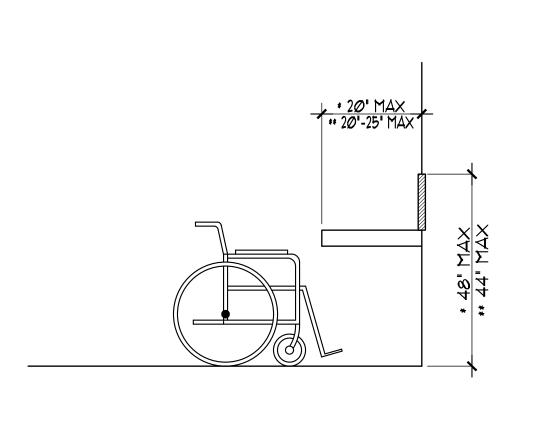
SCALE: 1/2" = 1'-@"

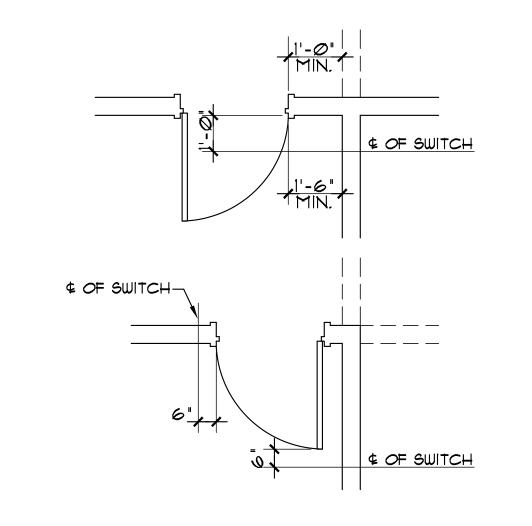
UNOBSTRUCTED SIDE REACH

2 DOOR OPERATING HARDWARE MOUNTING HEIGHT SCALE: 3/8" = 1'-0"









ACOUSTIC CEILING WALL CONNECTION

SCALE: FULL SCALE

BACKING PLATE

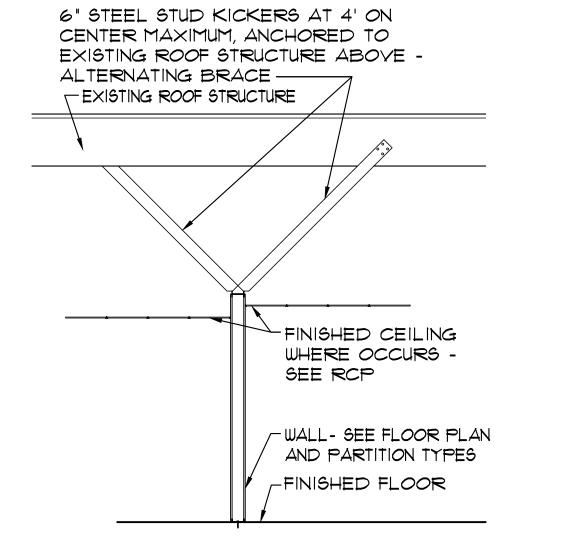
SCALE: 3" = 1'-0"

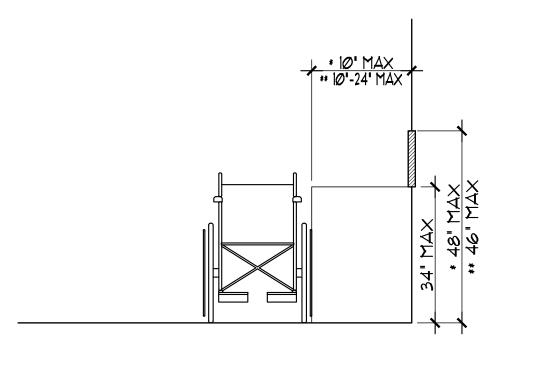
OBSTRUCTED HIGH FORWARD REACH

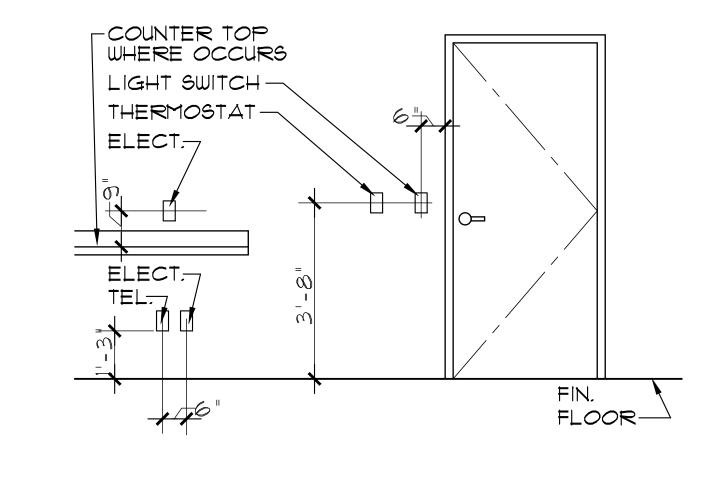
SCALE: 1/2" = 1'-0"

3 LIGHT SWITCH LOCATIONS

SCALE: 3/8" = 1'-0"







12 WALL BRACE

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

8 OBSTRUCTED HIGH SIDE REACH
SCALE: 1/2" = 1'-0"

ELECTRICAL MOUNTINGS

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

ALLEY RECREATION CENTER

SEAVER

NUTH GVR DRIVE

WALLEY, ARIZONA 85614

REVISIONS NO. DATE

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IMPROVEMENT

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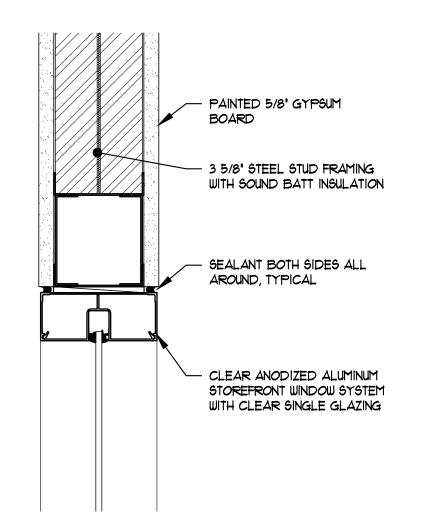
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PROJ. NO. 37Ø9.11

DRG. SCALE AS NOTED

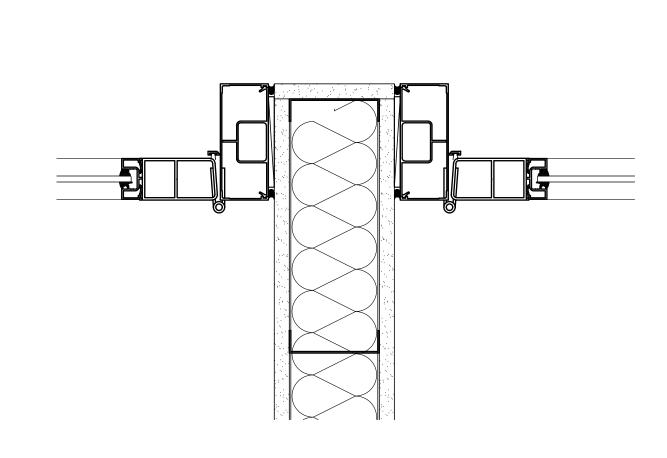
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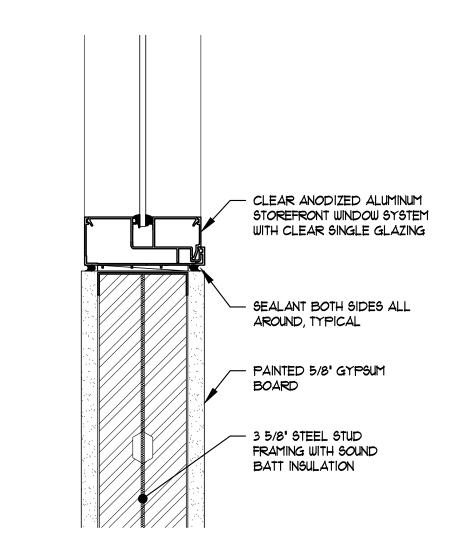
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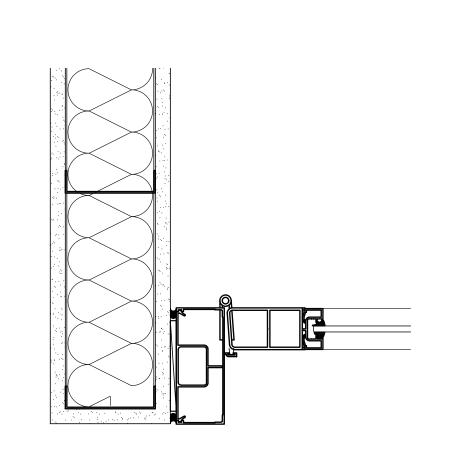


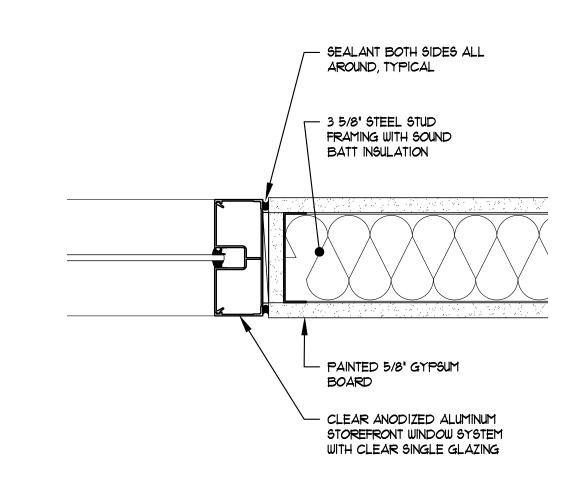






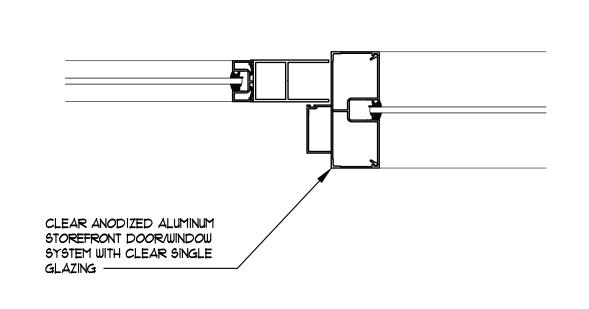








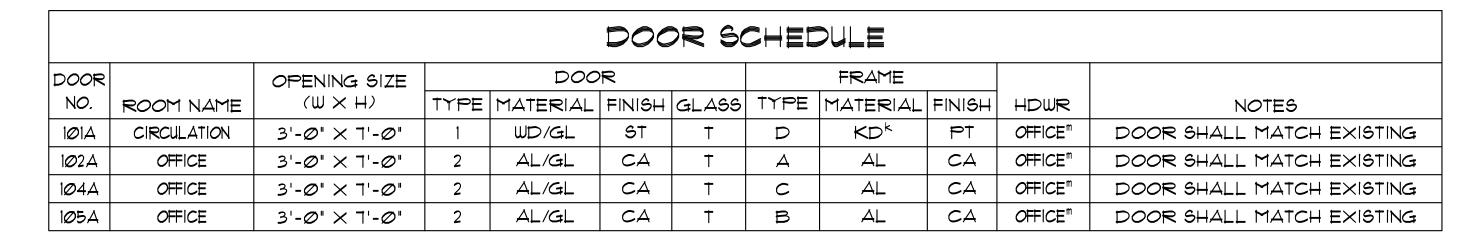












					TO ABBREVIATIONS			
AL	=	ALUMINUM	KD	=	KNOCKED DOWN HOLLOW METAL	Ť	=	TEMPERED GLAZING
CA	=	CLEAR ANODIZED	PT	=	PAINTED	WD	=	WOOD
GL	=	GLAZING	ST	=	STAINED / PRE-FINISHED			

DOOR TYPE		DOOR/WINDOW FR	RAME TYPE	
SEE SCHED. 1 2	3 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.	3 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 B	8 2 6 5 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5.0 A5	SEE SCHED. SHED. SHED.

GENERAL DOOR NOTES

- a. REQUIRED HARDWARE TO COMPLY W/ ACCESSIBILITY REQUIREMENTS PER ANSI 117.1 404.2.6. b. EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- c. EGRESS DOOR H.W. (INCLUDING HANDLES, PULLS, LATCHES, LOCKS, ETC.) SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF WRIST TO OPERATE. d. EGRESS DOOR H.W. SHALL BE INSTALLED NO LOWER THAN 34" A.F.F. AND NO HIGHER THAN 38" A.F.F.
- EGRESS DOORS SHALL NOT HAVE MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS. EGRESS DOORS SHALL BE CAPABLE OF BEING UNLATCHED IN NO MORE THAN A SINGLE OPERATION.

IMMEDIATE EGREES.

- OWNER SHALL WORK WITH CONTRACTOR'S DOOR HARDWARE SUPPLIER TO GENERATE A DOOR HARDWARE SCHEDULE. SECURITY ACCESS CONTROL MAY BE REQUIRED AT CERTAIN DOORS. ONCE CRITERIA IS SET, CONTRACTOR SHALL SUBMIT HARDWARE SCHEDULE FOR FINAL OWNER APPROVAL.
- INCLUDES DEADBOLT AND SIGN READING "DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED. INCLUDES EXIT HARDWARE ALWAYS LOCKED ON OUTSIDE, AND SECURITY MEASURES ABOVE.
- ALTERNATE PRICING: PROVIDE PAINTED HOLLOW METAL DOOR FRAMES INSTEAD OF KNOCK DOWN DOOR FRAMES. m. OFFICE: PUSH-BUTTON LOCKING, PUSH-BUTTON LOCK OUTSIDE LEVER UNTIL IT IS UNLOCKED WITH A KEY OR BY TURNING INSIDE LEVER, INSIDE LEVER ALWAYS FREE FOR

	FINISH SCHEDULE											
ROOM		FLOOR	WALLS				CEILING	REMARKS				
NO.	ROOM NAME	MATERIAL AND FINISHES	Base	7	8	E	w	MATERIAL AND FINISHES	HGT.	REMARKS		
101	CIRCULATION	FI	BI	WI	W1	WI	WI	CI	<u>+</u> 9'-6"	-		
1Ø2	OFFICE	FI	BI	WI	WI	WI	EXG	Cl	<u>+</u> 9'-6"	-		
103	CIRCULATION	FI	BI	WI	WI	WI	EXG/WI	Cl	<u>+</u> 9'-6"	-		
104	OFFICE	FI	BI	WI	EXG	WI	EXG/WI	Cl	<u>+</u> 9'-6"	-		
105	OFFICE	FI	BI	WI	EXG	EXG/WI	WI	CI	<u>+</u> 9'-6"	-		

		ROOM FINISH SCHEDULE KEY	
FLOOR	BASE	WALL / WAINSCOT	CEILING
FI - CARPET	BI - 4' RUBBER BASE	EXG - EXISTING WALL TO BE PAINTED (EGGSHELL ENAMEL)	CI - 2x4 LAY-IN CEILING TO MATCH EXISTING (REFER
		WI - WALL FINISH TO MATCH EXISTING AND PAINTED (EGGSHELL ENAMEL)	TO THE REFLECTED CEILING PLAN FOR LOCATIONS)

FINISH MATERIAL GENERAL NOTES

PATCH EXISTING FLOORING AS REQUIRED. SAMPLES OF ALL FINISHES ARE REQUIRED TO BE PAINT FINISHES AT THE CEILING SHALL BE FLAT. ALL INTERIOR FINISHES TO COMPLY WITH ALL STATE PAINT FINISHES AT WALLS SHALL BE SHERWIN WILLIAMS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

PAINTED 5/8' GYPSUM

- SEALANT

- 3 5/8' STEEL STUD FRAMING WITH SOUND BATT INSULATION

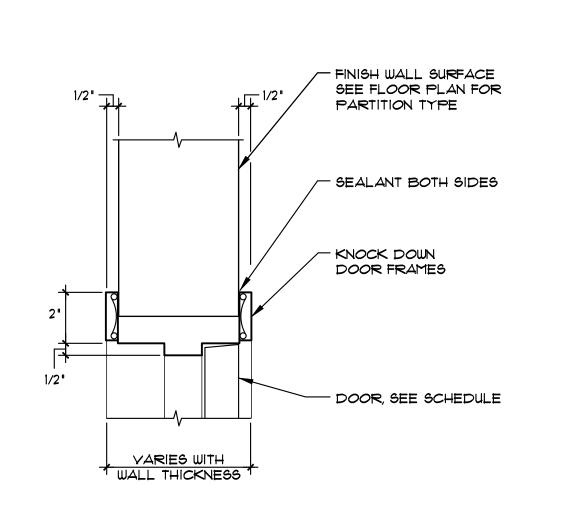
- DARK BRONZE ANODIZED

DOOR SYSTEM WITH CLEAR

ALUMINUM STOREFRONT

SINGLE GLAZING

- AND LOCAL BUILDING CODES.
 - ALL WALLS SHALL BE PAINTED AND RECEIVE 1 COAT OF PRIMER AND 2 FINISH COATS OF PAINT.
- SUPERPAINT VELVET. OWNER TO SPECIFY CARPET.



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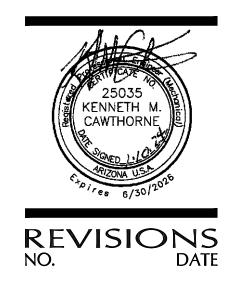
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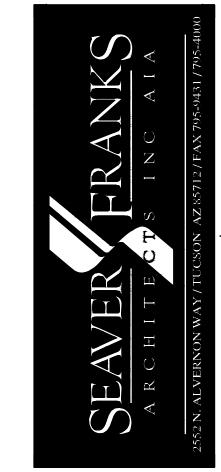
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REVISIONS

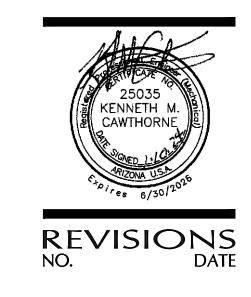




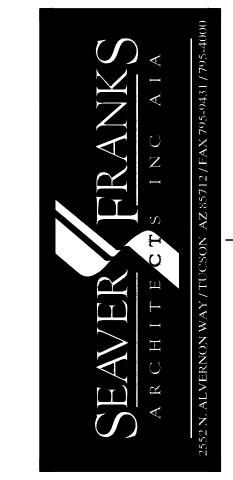
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NEW OFFICES - TENANT IMPROVEMENT
MECHANICAL NEW
WORK PLAN

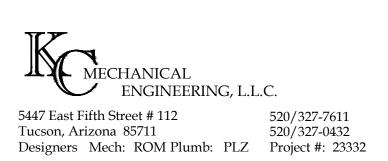


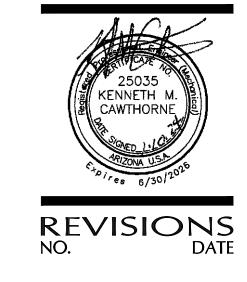
EEN VALLEY RECREATION CENTER
11 SOUTH GVR DRIVE
2 EEN VALLEY, ARIZONA 85614

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PROJ. NO. 37Ø9.11
DRG. SCALE AS NOTED

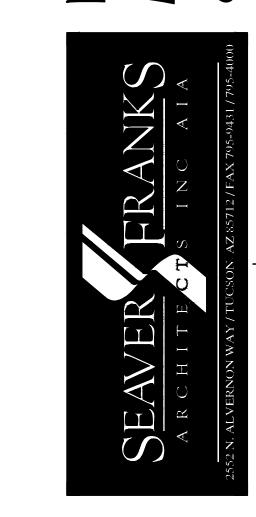
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		IMPROVEMENT
		- TENANT
		SETICES



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MECHANICAL ENGINEERING, L.L	.C.
5447 East Fifth Street # 112	520/327-7611
Tucson, Arizona 85711	520/327-0432
Designers Mech: ROM Plumb: PLZ	Project #: 23332

UTDOOR AIR	CALCULATION								_	_		-	_
BUILDING	ROOM	ROOM NAME	ZONE	CODE	OCCUPANCY CATEGORY,	ZONE	ZONE AIR	ZONE SUPPLY	SYSTEM	OUTDOOR	UNIT	REQUIRED	NOTES
JNIT	NUM.		FLOOR		Ra, Rp	POPULATION	DISTRIBUTION	AIR FLOW	POPULATION	AIR INTAKE	(WC OR	EXHAUST	
			AREA, Az			Pz	EFFECTIVENESS, Ez	Vpz	Ps	Vot	URINAL)	VENTILATION	
			(SQ.FT.)					(CFM)		(CFM)	UNIT	(CFM)	
\C−1		EXISTING FOYER	615	61	ENTRY LOBBIES	6.2		1,550					0
		OFFICE 102	130	63	OFFICE SPACE	0.7		450					0
		CIRCULATION	60	34	CORRIDORS	0.0		175					0
		OFFICE 104	115	63	OFFICE SPACE	0.6		375					0
		HALL	140	62	STORAGE ROOMS	0.3		100					0
		OFFICE 105	115	63	OFFICE SPACE	0.6		350					0
		EXISTING WOMENS	300	126	TOILETS - CONTINUOUS	0.0		150					0
		EXISTING MENS	270	126	TOILETS - CONTINUOUS	0.0		100					0
		EXISTING CIRCULATION	200	34	CORRIDORS	0.0		500					0
		EXISTING MULTIMEDIA	745	63	OFFICE SPACE	3.7		1,250					0
			2,690			12.0	CSCR	5,000	1	2 23	34		0

MARK	A	В
SERVICE	SUPPLY	RETURN
MATERIAL	STEEL	ALUM
FINISH	WHITE	WHITE
PATTERN	4-WAY	ROUND
REFERNCE	KRUEGER	KRUEGER
	6204	1190
NOTES	1,2,3,4	2

PROVIDE OPPOSED BLADE DAMPER.
 PROVIDE FRAME STYLE SUITABLE FOR CEILING SPECIFIED ON ARCH. DRAWINGS.
 CEILING DIFFUSER SHALL BE PERFORATED TYPE.
 PROVIDE SQUARE TO ROUND ADAPTORS WHEN REQUIRED.

MECHANICAL GENERAL NOTES

1. COORDINATE ALL MECHANICAL WORK WITH ALL OTHER TRADES. VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK.

2. PROVIDE ALL REQUIRED DEMOLITION OF EXISTING MECHANICAL EQUIPMENT, MATERIALS AND OTHER ITEMS WHICH ARE NOT TO BE REUSED IN NEW DESIGN. ALL ITEMS WHICH THE OWNER DOES NOT WISH TO SALVAGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

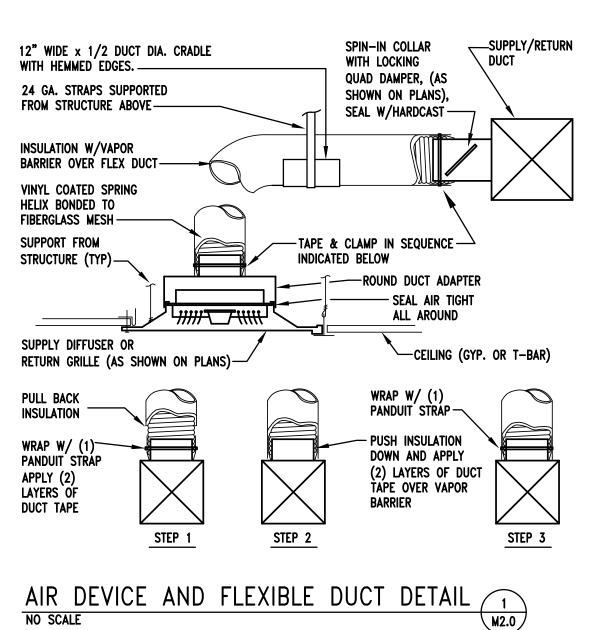
3. LINE ALL RECTANGULAR AIR CONDITIONING DUCTWORK WITH 1" THICK DUCT LINER PER SPECIFICATIONS. ALL RECTANGULAR AIR CONDITIONING DUCTWORK EXPOSED TO THE WEATHER SHALL BE LINED WITH 2" THICK DUCT LINER PER SPECIFICATIONS. ALL EVAPORATIVE COOLING DUCTWORK AND ROUND AIR CONDITIONING DUCTWORK NOT INTERNALLY LINED SHALL BE EXTERNALLY WRAPPED WITH INSULATION AS PER SPECIFICATIONS.

4. COORDINATE EXACT LOCATION OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.

5. ALL LOW VOLTAGE CONTROL WIRING AND ITS INSTALLATION TO BE BY MECHANICAL CONTRACTOR. INSTALL PER ELECTRICAL SPECIFICATIONS. MOUNTING HEIGHT OF THERMOSTATS SHALL BE PER ADA REQUIREMENTS.

6. PROVIDE SMOKE DETECTOR IN RETURN AIR SYSTEM(S) MOVING MORE THAN 2000 CFM AS INDICATED ON DRAWINGS. RETURN AIR PLENUMS MOVING MORE THAN 2000 CFM REQUIRE A RETURN DUCT SMOKE DETECTOR AT EACH UNIT. SMOKE DETECTORS SHALL DISENGAGE FAN(S) WHEN ACTIVATED. SMOKE DETECTORS INSTALLED IN THE RETURN AIR DUCT(S) MUST BE LOCATED AHEAD OF ANY OUTSIDE AIR INLET.

7. MECHANICAL CONTRACTOR SHALL REVIEW ALL ELECTRICAL DRAWINGS BEFORE PURCHASING EQUIPMENT TO INSURE THAT PROPER ELECTRICAL SERVICE IS TO BE PROVIDED FOR ALL NEW EQUIPMENT.



MECHANICAL GENERAL REQUIREMENTS

CODES: CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE FOLLOWING CODES: INTERNATIONAL BUILDING CODE (2018 EDITION), INTERNATIONAL MECHANICAL CODE (2018 EDITION), INTERNATIONAL PLUMBING CODE (2018 EDITION), INTERNATIONAL FIRE CODE (2018 EDITION) AS AMENDED BY THE LOCAL GOVERNING AGENCY.

GENERAL: THE WORK COVERED BY THIS SPECIFICATION SHALL INCLUDE THE FURNISHING OF ALL MATERIALS, LABOR, TRANSPORTATION, TOOLS, PERMITS, FEES, INSPECTIONS, UTILITIES AND INCIDENTALS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL WORK REQUIRED BY THE CONTRACT DRAWINGS.

DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND CANNOT SHOW EVERY CONNECTION IN DETAIL OR EVERY PIPE OR DUCT IN ITS EXACT LOCATION. THESE DETAILS ARE SUBJECT TO THE REQUIREMENTS OF ORDINANCES AND ALSO STRUCTURAL AND ARCHITECTURAL CONDITIONS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE STRUCTURAL AND FINISH CONDITIONS AND SHALL COORDINATE WITH THE SEPARATE TRADES IN ORDER TO AVOID INTERFERENCE BETWEEN THE VARIOUS PHASES OF WORK. WORK SHALL BE LAID OUT SO THAT IT WILL BE CONCEALED IN FURRED CHASES OR ABOVE CEILINGS, ETC., IN FINISHED PORTIONS OF THE BUILDING, UNLESS SPECIFICALLY NOTED OR INDICATED TO BE EXPOSED. WORK SHALL BE INSTALLED TO AVOID CRIPPLING OF STRUCTURAL MEMBERS. ALL WORK SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE LINES OF THE BUILDING UNLESS OTHERWISE NOTED. THE APPROXIMATE LOCATION OF EACH ITEM IS INDICATED ON THE DRAWINGS. THESE DRAWINGS ARE NOT INTENDED TO GIVE COMPLETE AND EXACT DETAILS IN REGARD TO LOCATION. EXACT LOCATIONS ARE TO BE DETERMINED BY ACTUAL MEASUREMENTS OF THE BUILDING.

EQUIPMENT INSTALLATION: PROVIDE AND INSTALL UNIONS AT PROPER POINTS TO PERMIT REMOVAL OF PIPE AND EQUIPMENT WITHOUT DAMAGE TO OTHER PARTS OF THE SYSTEM. ALL EQUIPMENT SHALL BE INSTALLED IN A MANNER TO PERMIT ACCESS TO PARTS REQUIRING SERVICE WITHOUT DISASSEMBLY OF OTHER EQUIPMENT.

EXCAVATION AND BACKFILL: THE CONTRACTOR SHALL PROVIDE ALL EXCAVATION REQUIRED FOR THE INSTALLATION OF THE WORK.
CONTRACTOR SHALL BACKFILL, COMPACT AND REPAIR CONCRETE OR PAVING TO MATCH EXISTING FINISH AS CLOSELY AS POSSIBLE.

EXISTING FACILITIES: LOSS OR DAMAGE TO EXISTING FACILITY CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION AT NO COST TO THE OWNER. THE CONTRACTOR SHALL COORDINATE ALL WORK REQUIRED IN EXISTING AREAS WITH THE OWNER AND SHALL ARRANGE FOR ALL TEMPORARY UTILITY SERVICES, PROTECTION OF THE FACILITY AND ITS CONTENTS, BARRICADES, SAFETY DEVICES, ETC., REQUIRED TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CONSTRUCTION IF REQUIRED TO ACCOMPLISH THE WORK. NOTIFY THE OWNER AT LEAST TWO DAYS IN ADVANCE OF ALL REQUIRED SERVICE OUTAGES.

SUBSTITUTIONS: EQUIPMENT OF EQUAL QUALITY TO THAT SPECIFIED MAY BE SUBSTITUTED PROVIDED IT MEETS OR EXCEEDS THE CAPACITY SCHEDULED, IS OF SIMILAR CONSTRUCTION, AND WILL FIT IN THE SPACE ALLOTTED WITH AMPLE SERVICE CLEARANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION WITH ALL OTHER TRADES (SUCH AS ELECTRICAL AND STRUCTURAL) OF ANY PRODUCT REQUIRING A CHANGE IN THE WORK OF THAT TRADE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY ADDITIONAL COSTS ASSOCIATED WITH SUCH A CHANGE. MATERIALS OF CONSTRUCTION SHALL BE AS SPECIFIED.

SUPPORTS, ANCHORS AND SLEEVES: SUPPORT HORIZONTAL PIPING WITH STEEL CLEVIS HANGERS AND VERTICAL PIPING WITH RISER CLAMPS. PROVIDE COPPER PLATED HANGERS AND CLAMPS FOR COPPER PIPING OR WRAP THE COPPER PIPE AT HANGERS WITH TWO LAYERS OF PVC TAPE OR EQUIVALENT. HANGER SPACING AND ROD SIZE SHALL BE IN ACCORDANCE WITH THE LOCAL CODE AND/OR ASHRAE STANDARDS. SUPPORT DUCTWORK IN ACCORDANCE WITH SMACNA STANDARDS. DUCTWORK SHALL BE SUPPORTED INDEPENDENT FROM OTHER DUCTWORK AND EQUIPMENT. PROVIDE MINIMUM 18 GAUGE GALVANIZED STEEL SLEEVES FOR DUCTWORK, FLASHINGS, AND ESCUTCHEONS. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS. THROUGH PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE PER MANUFACTURER'S UL LISTED DETAILS AND INSTRUCTIONS, EQUAL OF HILTI. PIPING SHALL BE PROVIDED WITH STANDARD WEIGHT STEEL PIPE OF SIZE TO PASS PIPE AND INSULATION. PIPE SLEEVES ARE NOT REQUIRED IF PENETRATIONS ARE CORE DRILLED. PIPING SHALL NOT BE SUPPORTED FROM PENETRATION.

SHOP DRAWINGS: PROVIDE SHOP DRAWINGS AND MANUFACTURER'S DATA ON ALL PLUMBING FIXTURES AND TRIM, EQUIPMENT, MECHANICAL

SHOP DRAWINGS: PROVIDE SHOP DRAWINGS AND MANUFACTURER'S DATA ON ALL PLUMBING FIXTURES AND TRIM, EQUIPMENT, MECHANI DEVICES AND FIRE PROTECTION SYSTEM FOR APPROVAL.

WARRANTY: PROVIDE TWO YEAR WARRANTY FROM DATE OF FINAL ACCEPTANCE ON ALL LABOR AND MATERIALS PROVIDED UNDER THIS

CONTRACT. PROVIDE AN ADDITIONAL FIVE YEAR WARRANTY ON THE MOTOR_COMPRESSOR UNITS FOR ALL AIR CONDITIONING OR HEAT PUMP EQUIPMENT AND WATER HEATERS.

OPERATION AND MAINTENANCE MANUAL: PROVIDE A COMPLETE INDEXED, BOUND MANUAL OF ALL EQUIPMENT REQUIRING MAINTENANCE.

TRAINING: CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO HOURS TRAINING TO THE OWNER ON THE OPERATION OF ALL EQUIPMENT.

CLEAN_UP: CONTRACTOR SHALL MAINTAIN PREMISES IN CLEAN CONDITION AT END OF EACH DAY AND THOROUGHLY CLEAN_UP AT END OF CONSTRUCTION.

FIRE PROTECTION:

GENERAL: THE EXISTING FIRE PROTECTION SYSTEM IS A WET PIPE AUTOMATIC SPRINKLER SYSTEM AND SHALL BE MODIFIED PER THE NEW ARCHITECTURAL FLOOR PLANS AND CEILING PLANS.

QUALITY ASSURANCE: DESIGN INSTALLATION SHALL MEET THE REQUIREMENTS OF NFPA 13, INSURANCE UNDERWRITERS, THE REQUIREMENTS SPECIFIED HEREINAFTER AND THE LOCAL FIRE CODE. THE SYSTEM SHALL BE DESIGNED AND INSTALLED BY A FIRE PROTECTION CONTRACTOR LICENSED IN THE STATE OF ARIZONA AND EXPERIENCED IN THIS TYPE OF SYSTEM DESIGN AND INSTALLATION WITH A MINIMUM OF FIVE YEARS EXPERIENCE. EVIDENCE TO SUPPORT THE ABOVE REQUIREMENTS MAY BE REQUESTED, AND ANY PROPOSED INSTALLER WHO CANNOT SHOW SUITABLE EXPERIENCE WILL BE REJECTED.

ACCEPTABLE MANUFACTURERS: PRODUCTS MANUFACTURED BY AUTOMATIC SPRINKLER, VICTAULIC, GRINNELL, VIKING, CENTRAL, OR APPROVED EQUAL MEETING THESE SPECIFICATIONS ARE ACCEPTABLE.

ALL MATERIALS AND EQUIPMENT USED IN THE INSTALLATION OF THE FIRE PROTECTION SYSTEM SHALL BE LISTED AS APPROVED BY THE UNDERWRITERS LABORATORIES, INC., LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS, AND THE FACTORY MUTUAL TESTING LABORATORIES LIST OF APPROVED EQUIPMENT. FIRE PROTECTION DEVICES AND DEVICES INVOLVING FIRE HAZARD SHALL BE THE LATEST DESIGN OF THE MANUFACTURER.

SPRINKLER PIPING AND PIPE FITTING:

PIPING: PIPING, FITTINGS, JOINTS, AND INSTALLATION SHALL BE AS SPECIFIED IN NFPA 13.

SPRINKLER HEADS: UNLESS OTHERWISE SPECIFIED OR INDICATED ON THE DRAWINGS, SPRINKLER HEADS SHALL BE UPRIGHT OR PENDANT, QUICK RESPONSE HEADS EXCEPT THAT SPRINKLER HEADS TO BE INSTALLED IN THE VICINITY OF HEATING EQUIPMENT AND LIGHTS, SHALL BE OF THE TEMPERATURE RATINGS REQUIRED FOR SUCH LOCATIONS BY NFPA 13.

INSTALLATION: THE SPRINKLER SYSTEM SHALL BE DESIGNED AND SIZED BASED ON NFPA 13 REQUIREMENTS.

ACTUAL NUMBER OF SPRINKLER HEADS, HEAD SPACING, PIPE ROUTING, COVERAGE, ETC., AS REQUIRED BY THE APPLICABLE AUTHORITIES AND/OR ARCHITECTURAL AND STRUCTURAL CONDITIONS, SHALL BE THE CONTRACTORS RESPONSIBILITY.

HEADS SHALL BE LOCATED IN A SYMMETRICAL PATTERN RELATED TO CEILING FEATURES SUCH AS BEAMS, LIGHT FIXTURES, DIFFUSERS, ETC., AND WHERE APPLICABLE, HEADS SHALL BE LOCATED SYMMETRICAL WITH THE GRID CEILING. HEADS SHALL BE ARRANGED IN A MANNER ACCEPTABLE TO THE ARCHITECT.

THE CONTRACTOR SHALL PROVIDE SPARE HEADS EQUAL TO ONE PERCENT OF THE TOTAL NUMBER OF HEADS INSTALLED UNDER THE CONTRACT, BUT NOT LESS THAN 10.

TESTS: UPON COMPLETION AND PRIOR TO ACCEPTANCE OF THE INSTALLATION, THE CONTRACTOR SHALL SUBJECT THE SYSTEM TO THE TESTS REQUIRED BY THE NFPA 13 AND THE LOCAL FIRE DEPARTMENT.

HEATING, VENTILATING AND AIR CONDITIONING:

DUCTWORK:

DUCT SIZES: DIMENSIONS ON DRAWINGS ARE SHEET METAL DUCT SIZES. DO NOT INCREASE DUCT SIZE FOR ACOUSTICALLY LINED OR INTERNALLY INSULATED DUCTS.

ALL LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED WITH A MIN. 2" W.G. PRESSURE CLASSIFICATION AND SEAL CLASS C. SEAL ALL TRANSVERSE JOINTS WITH HARDCAST.

DUCT GAUGES: FABRICATION AND SUPPORT SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.

ROUND DUCTWORK: GALVANIZED STEEL LOCK FORMING QUALITY, MINIMUM 0.028 INCH THICK CONTINUOUS SPIRAL SEAM. FABRICATE ROUND DUCT ELBOWS OF MINIMUM FIVE (5) PIECE CONSTRUCTION.

GALVANIZED DUCTWORK: GALVANIZED STEEL LOCK FORMING QUALITY HAVING ZINC COATING OF 1.25 OUNCES PER SQUARE FOOT FOR EACH SIDE PER ASTM A653. ALL DUCTWORK SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. ALL DUCTWORK EXPOSED TO WEATHER SHALL BE SEALED (JOINTS AND SEAMS) WITH SILICONE SEALANT. ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS; MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS; MESH AND MASTIC SEALING SYSTEMS; OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B.

FLEXIBLE DUCTS: FLEXIBLE DUCTS SHALL BE INSULATED (MINIMUM 1" THICK, WITH MINIMUM THERMAL RESISTANCE OF R4.2) AND HAVE A FOIL SCRIM VAPOR BARRIER. FLEXIBLE DUCTWORK SHALL BE LISTED AS UL 181 CLASS 1 FLEXIBLE AIR DUCT AND SHALL COMPLY WITH NFPA STANDARDS. PROVIDE FLEXIBLE DUCTWORK AS MANUFACTURED BY MANVILLE, OWEN CORNING, THERMOFLEX, OR EQUIVALENT.

KITCHEN EXHAUST DUCTWORK: DUCTWORK SHALL BE A MINIMUM OF16 GAUGE BLACK IRON OR 18 GAUGE STAINLESS STEEL WITH WELDED JOINTS AND SEAMS. ALL EXPOSED DUCT SHALL BE STAINLESS STEEL. SLOPE DUCTWORK TO HOOD.

DUCT LINER: ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK TO BE INTERNALLY LINED FOR THERMAL AND/OR ACOUSTICAL PURPOSES SHALL BE 1" THICK WITH A MINIMUM THERMAL RESISTANCE OF R4.2, SUITABLE FOR TEMPERATURE RANGE OF 40 F TO 250 F AND MAXIMUM AIR VELOCITY OF 4000 FPM. INSTALL LINER IN ACCORDANCE WITH SMACNA DUCT LINER APPLICATION STANDARD. LINE ALL AIR CONDITIONING DUCTWORK EXTERIOR TO THE BUILDING ENVELOPE WITH 2"THICK DUCT LINER WITH A MINIMUM THERMAL RESISTANCE OF 8.0.

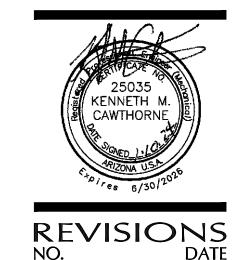
INSULATION: WRAP ALL ROUND SUPPLY AND RETURN DUCTWORK NOT INTERNALLY LINED WITH A MAXIMUM 1-1/2" THICK, FLEXIBLE FIBERGLASS INSULATION HAVING A FACTORY APPLIED FOIL SCRIM KRAFT VAPOR BARRIER. INSULATION SHALL HAVE A MINIMUM THERMAL RESISTANCE OF R4.2 AT 75 F MEAN TEMPERATURE. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. DUCT WRAP SHALL BE INSTALLED SO AS TO PROVIDE A UNIFORM THICKNESS. INSULATION SHALL NOT BE COMPRESSED.

FILTERS: FILTERS SHALL BE 2" THICK PLEATED TYPE, DISPOSABLE, MEDIUM EFFICIENCY, MERV 8, CAMFIL FARR 30/30 OR EQUIVALENT.
FILTERS SHALL BE IN PLACE WHENEVER SYSTEMS ARE IN OPERATION. CONTRACTOR SHALL PROVIDE AND INSTALL AN ADDITIONAL SET OF
FILTERS FOR EACH UNIT AT THE COMPLETION OF PROJECT.

AIR DEVICES: AIR DISTRIBUTION DEVICES SHALL BE AS SCHEDULED ON THE DRAWINGS AND EQUAL TO KRUEGER, TITUS, PRICE, TUTTLE & BAILEY, NAILOR, OR AIR CONCEPTS.

TESTING AND BALANCING: AIR SYSTEMS SHALL BE BALANCED BY CERTIFIED TESTING & BALANCING CONTRACTOR IN ACCORDANCE WITH AABC STANDARDS AND METHODS. SUBMIT AIR BALANCE REPORT ON AABC STANDARD FORMS FOR APPROVAL.





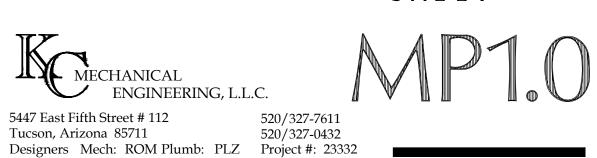
-ICES - IENANI IMPROVEMENI DN 15 SPECIFICATIONS



GREEN VALLEY RECREATION CENTER
1111 SOUTH GVR DRIVE
GREEN VALLEY, ARIZONA 85614

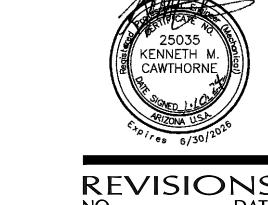
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DRG. SCALE AS NOTED

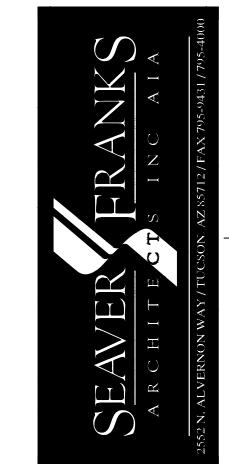


PLUMBING DEMOLITION PLAN

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



REVISIONS NO. DATE



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CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS INCLUDING PIPING LOCATIONS, SIZES, INVERTS AND DIRECTION OF FLOW BEFORE THE START OF WORK. 3. PROVIDE REQUIRED DEMOLITION OF EXISTING PLUMBING EQUIPMENT, FIXTURES, MATERIALS AND OTHER ITEMS WHICH ARE NOT TO BE REUSED IN NEW DESIGN. ALL ITEMS WHICH THE OWNER DOES NOT WISH TO SALVAGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

COORDINATE ALL WORK WITH ALL OTHER TRADES. EXACT ROUTING OF ALL PIPING SHALL BE CAREFULLY COORDINATED WITH ALL STRUCTURAL CONDITIONS.

PLUMBING GENERAL NOTES

TRUE PROJECT NORTH NORTH

PLUMBI	NG SYMBOLS	AND L	EGEND.
S S. S. GW V. CW HW HWR G G. MPG MPG HPG HPG HPG FL FL SOV T&PR HB WHA	SOIL OR WASTE LINE GREASE WASTE LINE VENT LINE COLD WATER LINE HOT WATER LINE HOT WATER RETURN LINE GAS LINE (LOW PRESSURE) MEDIUM PRESSURE GAS HIGH PRESSURE GAS FIRE LINE PLUG VALVE SHUT OFF VALVE (BALL VALVE) CHECK VALVE UNION TEMPERATURE & PRESSURE RELIEF HOSE BIBB WATER HAMMER ARRESTOR	ABV. AFF A/C A.D. BEL.FLR. C.I. C.F.H. CLG. CONT. DN. EXIST. FCO GCO TYP. UG VCP VR VTR W/	ABOVE ABOVE FINISH FLA AIR CONDITIONING ACCESS DOOR BELOW FLOOR CAST IRON CUBIC FEET PER CEILING CONTINUATION DOWN EXISTING FLOOR CLEANOUT GRADE CLEANOUT TYPICAL UNDERGROUND VITRIFIED CLAY P VENT RISER VENT THRU ROOF WITH

RECREATION

ISSUE DATE Ø8-3Ø-2Ø24 **PROJ. NO.** 37∅9.11 DRG. SCALE AS NOTED



(E) INDICATES EXISTING FIXTURE OR DEVICE TO REMAIN.

CLEAN, REPAIR OR REPLACE AS REQUIRED. (R) INDICATES EXISTING FIXTURE OR DEVICE TO BE RELOCATED AS SHOWN. CLEAN, REPAIR OR REPLACE AS REQUIRED. (X) INDICATES EXISTING FIXTURE OR DEVICE TO BE REMOVED.

REMOVE EXISTING CONDUCTORS BACK TO NEXT REMAINING (N) INDICATES NEW FIXTURE OR DEVICE.

KEYED NOTES:

(1) NOT IN SCOPE OF WORK.

2 EXISTING 6" DOWNLIGHT TO BE DEMO'D. EXISTING CIRCUIT TO BE REUSED FOR NEW LIGHTING. DEMO'D FIXTURE IS A 75.0-WATT PAR30 DOWN LIGHT. TYPICAL OF (13). 75 X 13 = 975.0-WATTS REMOVED.

(3) EXISTING 2' X 4' FLUORESCENT LAYIN FIXTURE TO BE DEMO'D. EXISTING CIRCUIT TO BE REUSED FOR NEW LIGHTING. DEMO'D FIXTURE IS A 64.0-WATT T8 FLUORESCENT LAYIN. TYPICAL OF (3). $64 \times 3 = 192.0 - WATTS REMOVED.$

(4) CEILING FAN TO BE DEMO'D. LOAD REMOVED 90.0-WATTS. 5 ELECTRICAL CONTRACTOR TO DEMO ALL POWER SUPPLIED TO MINI-SPLIT UNIT AND CONDENSING UNIT. DEMO CONDUCTORS AND CONDUIT BACK TO EXISTING UNIT. DEMO CONDUCTORS
AND CONDUIT BACK TO EXISTING PANEL AND LABEL EXISTING
CIRCUIT BREAKER AS SPARE. DUE TO IMPROPER PANEL
LABELING THROUGH OUT THE BUILDING THE ELECTRICAL
CONTRACTOR WILL NEED TO DETERMINE THE EXISTING PANEL
FEEDING THIS MINI—SPLIT. ONCE THIS PANEL IS LOCATED THE ELECTRICAL CONTRACTOR TO LABEL PANEL 'B' AS PER 2017 NEC 110.22(A) AND 408(A)(2).

REVISIONS

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ISSUE DATE Ø8-3Ø-2Ø24 PROJ. NO. 3709.11

DRG. SCALE AS NOTED

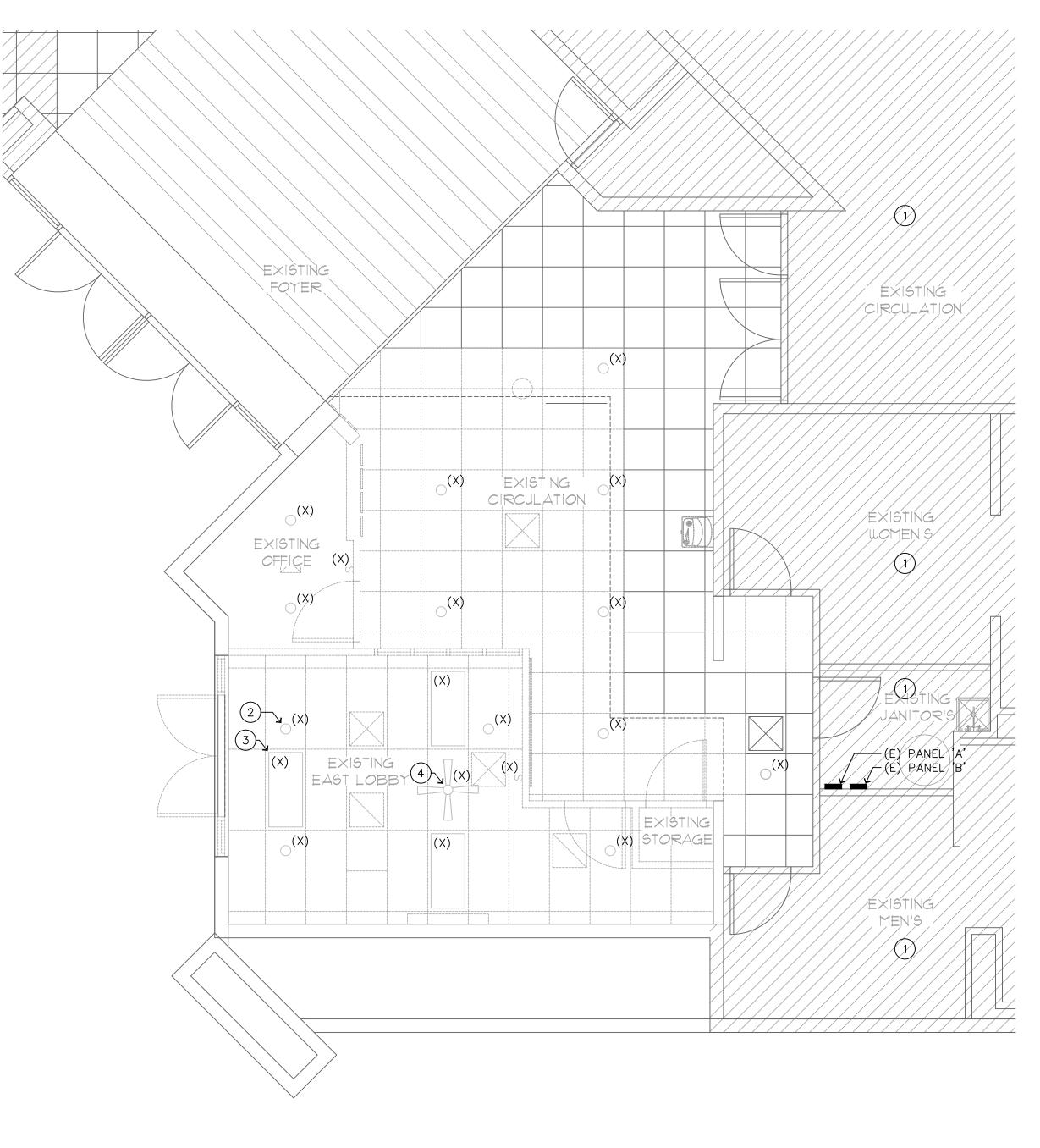
Job No. 23075 SHEET

CCEC ELECTRICAL

p: 602.400.1792 • jeff@ccecaz.com 5551 White Mountain Road, #2-538, Show Low, AZ 85901

CONSULTING

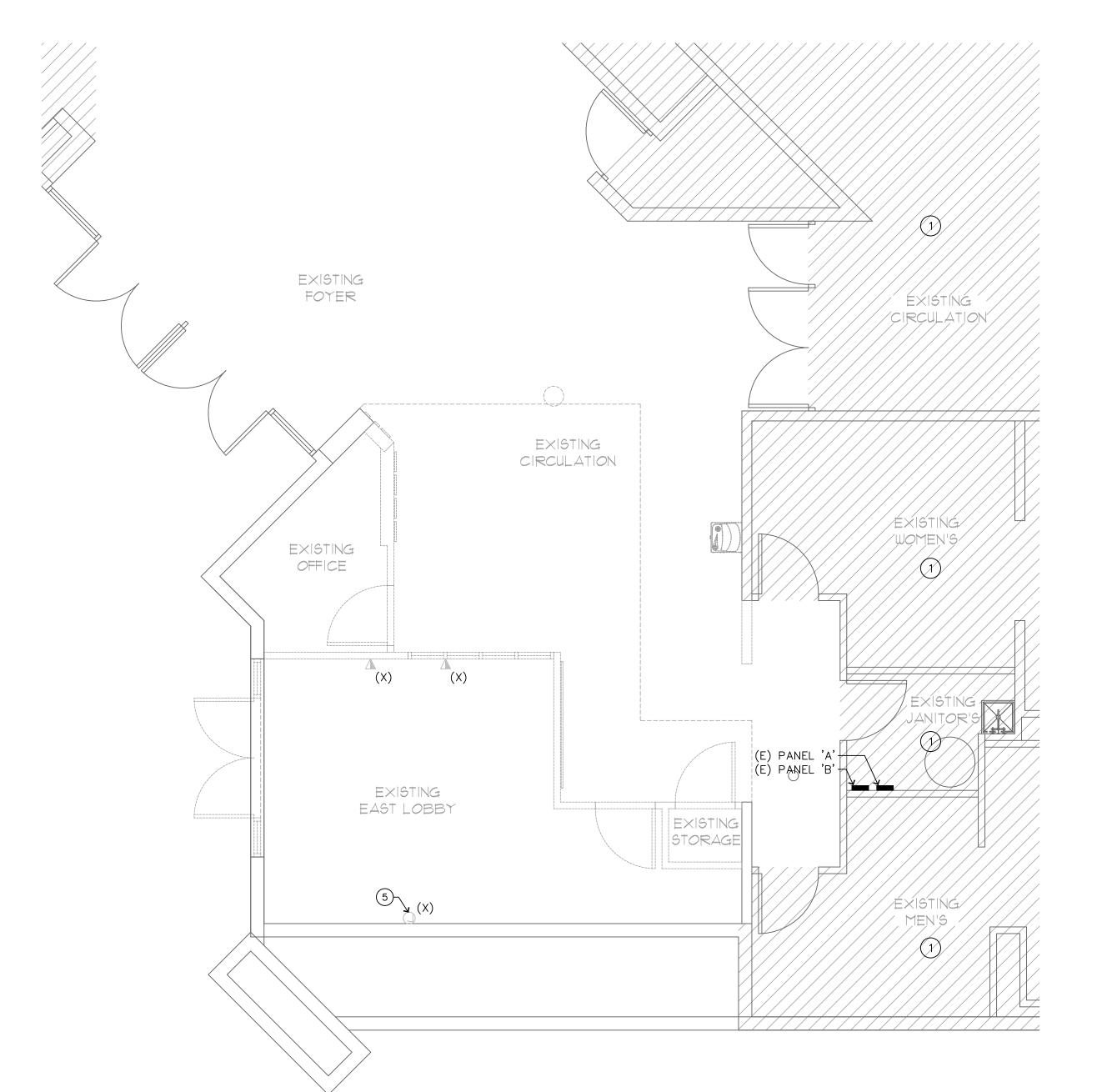
TRUE PROJECT NORTH NORTH



DEMO LIGHTING FLOOR PLAN

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





PROVIDE BOND WIRE IN ALL RACEWAYS, SIZED PER N.E.C. ART. #250. INSTALL ALL WIRING IN APPROVED METALLIC RACEWAY. WIRING METHODS (AC, MC, NM, SE, UF OR SIMILAR CABLES) ARE NOT APPROVED. ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO

UNDERWRITERS LABORATORY LISTINGS FOR THROUGH PENETRATIONS

FIRESTOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING

VOLT CIRCUITS.

DETAILS WHICH SHOW COMPLETE CONFORMANCE TO THE U.L. LISTING TO THE INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED. CONTRACTOR IS TO VERIFY CONDITION OF EXISTING INSTALLATIONS BY FIELD INSPECTION. CONTRACTOR IS TO PROVIDE NEW WIRE, CONDUIT, AND BOXES

AS REQUIRED WITH NO ADDITIONAL COST. CONTRACTOR IS TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT

LOCATIONS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO

ALL GENERAL USE RECEPTACLES MOUNTED WITHIN 6' OF A BASIN OR SINK SHALL BE G.F.C.I.

ALL RECEPTACLES, LIGHTING AND DATA/TELEPHONE COVER PLATE TYPES, COLORS AND FINISHES SHALL MATCH EXISTING. ALL WIRING DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE.

CONTRACTOR IS TO PROVIDE BOND WIRE IN ALL RACEWAYS, SIZED PER N.E.C. ART. #250.

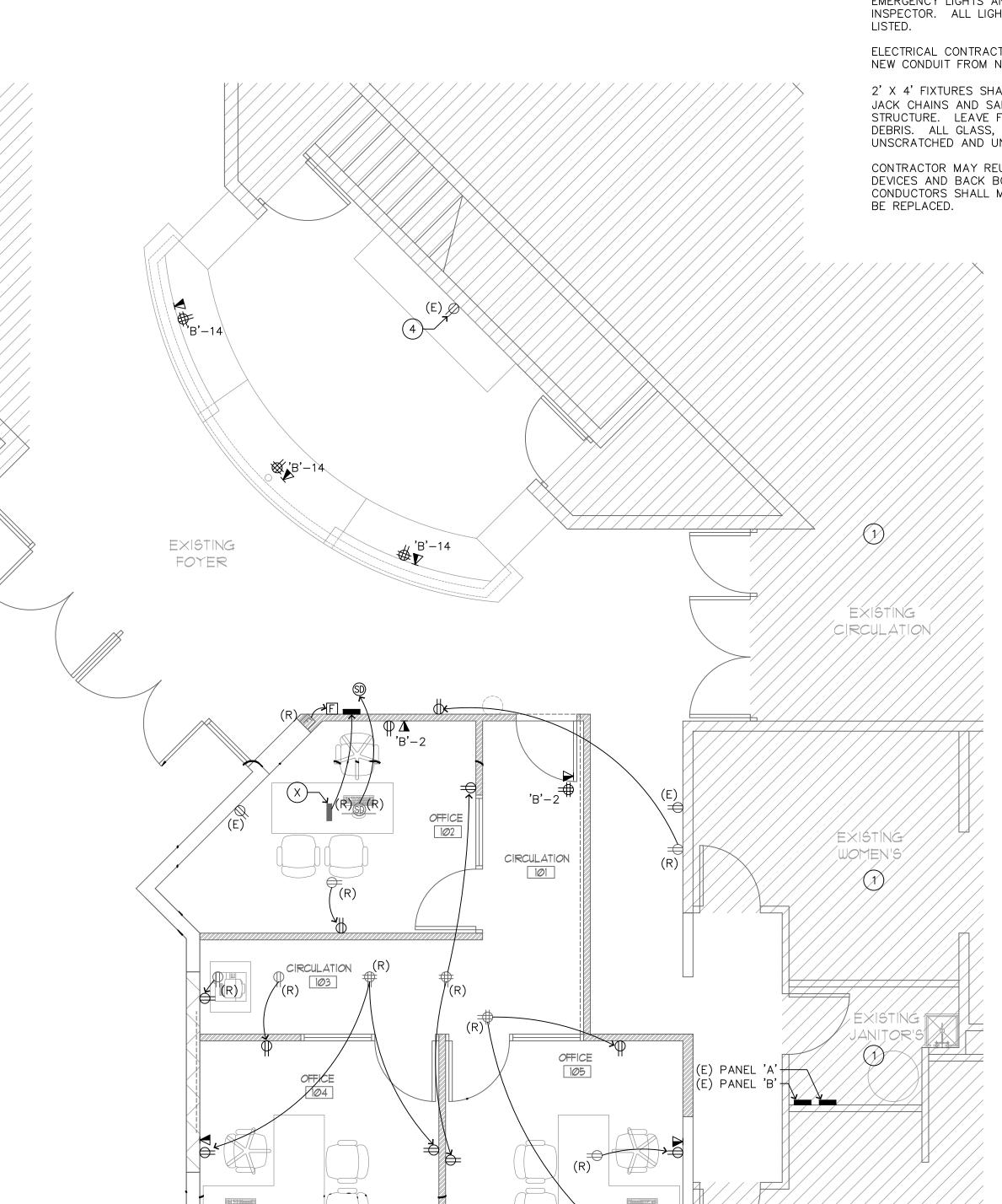
CONTRACTOR IS TO VERIFY EXACT LOCATIONS, MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN. CONTRACTOR IS TO PROVIDE DISCONNECT SWITCHES AND TRANSFORMERS AS REQUIRED, AND FINAL CONNECTIONS TO EQUIPMENT PER

CONTRACTOR IS TO PROVIDE AND INSTALL ADDITIONAL EXIT SIGNS, EMERGENCY LIGHTS AND NIGHT LIGHTS IF REQUIRED BY GOVERNING INSPECTOR. ALL LIGHTING FIXTURES TO BE INDEPENDENT LABORATORY

ELECTRICAL CONTRACTOR SHALL PROPERLY SUPPORT ALL EXISTING AND NEW CONDUIT FROM NEW SUPPORTS PER NEC ART. 300-11.

2' X 4' FIXTURES SHALL BE SUPPORTED BY GALVANIZED CADMIUM PLATED JACK CHAINS AND SAFETY "S" HOOKS ATTACHED TO THE BUILDING STRUCTURE. LEAVE FIXTURES CLEAN OF DIRT, DUST, GREASE SPOTS, DEBRIS. ALL GLASS, PLASTIC AND OTHER COMPONENTS ARE TO BE UNSCRATCHED AND UNBROKEN PRIOR TO ACCEPTANCE.

CONTRACTOR MAY REUSE THE EXISTING CONDUIT, BRANCH CIRCUITS, DEVICES AND BACK BOXES TO THE EXTENT POSSIBLE. ALL REUSED CONDUCTORS SHALL MATCH DESIGNED CONDUCTOR SIZES OR THEY SHALL



LIGH	HT FIXTURE SCHEDULE						
MARK	DESCRIPTION	MFR.	CATALOG #	VOLT.	#	LAMPS TYPE	REMARKS
A	2' X 4' LED LAYIN RECESSED FIXTURE	LITHONIA	2BLT4 60I ADP _ GZ10 LP835	MVOLT		5,970 LUMENS	(EM) DENOTES 14W BATTERY BACK-UP. PROVIDE WITH CONTINUOUS PWR FOR CHARC
В	6" LED DOWNLIGHT	GOTHAM	EV06 35/20 AR _ LSS WD MVOLT GZ10 E10WCP SF	MVOLT		2,006 LUMENS	(EM) DENOTES 10W BATTERY BACK-UP. PROVIDE WITH CONTINUOUS PWR FOR CHARC
⊗	EXIT SIGN WITH BATTERY BACK-UP	LITHONIA	EDG _ 1 R EL WM	MVOLT		LED'S W/FIXTURE 3.1 W, 3,500°K	MOUNT ABOVE DOOR

KEYED NOTES:

= 216.5-WATTS REMOVED FROM CIRCUIT.

(2) TIE NEW CORRIDOR LIGHTING INTO EXISTING LIGHTING CIRCUIT AND

CONTROLS. DEMO'D CORRIDOR LIGHTING IS EQUAL TO (5) X

(3) TIE NEW OFFICE LIGHTING INTO EXISTING LIGHTING CIRCUIT AND

 $(3) \times 64.0-WATT = 192.0-WATTS$, 2' X 4' FLUORESCENT

792.0 - 385.2 = 406.8 - WATTS REMOVED FROM CIRCUIT.

(4) ELECTRICAL CONTRACTOR TO MOVE EXISTING RECEPTACLE TO

COUNTER HEIGHT OF +42" ABOVE FINISHED FLOOR.

CONTROLS. DEMO'D OFFICE LIGHTING IS EQUAL TO (8) X

75-WATT = 375.0-WATTS INCANDESCENT DOWN LIGHTING. NEW

LOAD IS (5) X 19.7-WATTS + 60.0-WATT = 158.5-WATTS NEW

75-WATT = 600.0-WATTS, INCANDESCENT DOWN LIGHTING PLUS

FIXTURES. TOTAL DEMO'D LOAD IS 792.0-WATTS. NEW LOAD IS

(9) \times 42.8-WATTS = 385.2-WATTS. LIGHTING LOAD DEMO'D IS

6" LED DOWN LIGHTING. LIGHTING LOAD DEMO'D IS 375.0 - 158.8

(1) NOT IN SCOPE OF WORK,

SHEET SYMBOLS-

(N) INDICATES NEW FIXTURE OR DEVICE.

Luminaire Type: TYPE 'B'

Catalog Number:

ds design select

*See ordering tree for details

Items marked by a shaded background qualify for the Design

Design Select, visit www.acuitybrands.com/designselect.

Select program and ship in 15 days or less. To learn more about

EVO + Incito - Multiple Layers of Light

Multiple Layers of Light

General Illumination Round Downlight

Available with 10% dimming, 1% dimming, or dim to dark

· UGR of zero for fixtures aimed at nadir with a cut-off equal

to or less than 60deg per CIE 117-1995 Discomfort Glare

High Center Beam Layer I Incito

Surgical Patient Room

Food Service

0

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com

© 2014-2023 Acuity Brands Lighting Inc. All Rights Reserved. Rev. 10/24/23 Specifications subject to change without notice.

· Batwing distribution with feathered edges provides even

illumination on horizontal and vertical surfaces

ENERGY STAR® certified product*

in Interior Lighting. UGR FAQ

Medium Wide (MWD) Wide (WD) 1.0 S.MH 1.2 S.MH

Feature Set

Distribution

Superior Performance

*Based on 3500K AR LSS MWD 80CRI

EV06-OPEN

page 1 of 8

Bounding Ray™ optical design

Unitized optics mechanically attach the light engine to the

Fully serviceable and upgradeable lensed LED light engine

2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional

Very Narrow (VND) Narrow (ND) Medium (MD) 0.5 S:MH 0.8 S:MH

Coordinated Apertures | Multiple Layers of Light

General Illumination Layer I EVO

(LD)

lower reflector for complete optical alignment.

70% lumen maintenance at 60,000 hours

45° cutoff to source and source image

Fixtures are wet location, covered ceiling

(E) INDICATES EXISTING FIXTURE OR DEVICE TO REMAIN.

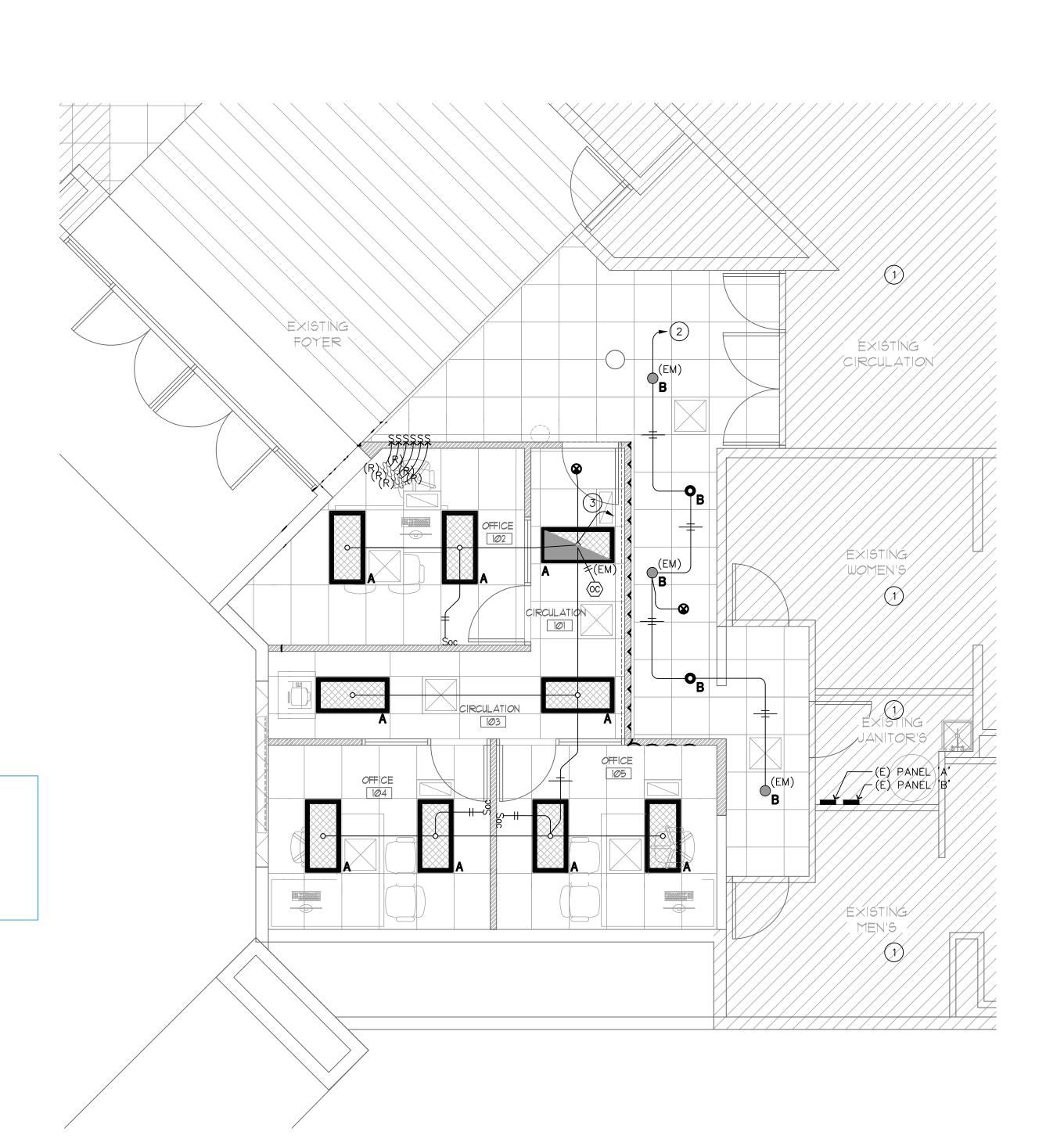
(R) INDICATES EXISTING FIXTURE OR DEVICE TO BE RELOCATED

AS SHOWN. CLEAN, REPAIR OR REPLACE AS REQUIRED.

() INDICATES EXISTING FIXTURE OR DEVICE TO BE REMOVED

REMOVE EXISTING CONDUCTORS BACK TO NEXT REMAINING

CLEAN, REPAIR OR REPLACE AS REQUIRED.



IGHTING FLOOR PLAN SCALE: 1/4" = 1'-0"

LITHONIA LIGHTING* Catalog Number

TYPE 'A'

Ribbed Reflector Option

User-friendly install

** Capable Luminaire

visit www.acuitybrands.com/aplus.

ds design select

*See ordering tree for details

Embed nLight controls today. Prepare for tomorrow.

This item is an A+ capable luminaire, which has been designed and tested to provide

consistent color appearance and out-of-the-box control compatibility with simple

All configurations of this luminaire are calibrated and tested to meet the Acuity Brands'

specifications for chromatic consistency – including color rendering, color fidelity, and

Items marked by a shaded background qualify for the Design Select program and ship in 15

days or less. To learn more about Design Select, visit www.acultybrands.com/designselect.

color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about Acuity A+ standards, specifications, and testing

commissioning when used with Acuity Brands controls products.

Width: 23-3/4 (60.3)

BLT Series LED

Class 5-9

eldoLED BAA

ADP Diffuser Option

Ordering Tree nLight Platform Sensor Switch JOT Photometrics Performance Data

The low profile BLT design (2-3/8") also makes it an excellent choice for renovation projects.

INTENDED USE — The BLT Best-in-Value Low Profile LED luminaire features a popular center basket design that offers a dean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance

compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for

many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities

CONSTRUCTION — Prior to fabrication, BLI components are coated with a proprietary paint blend and die-formed for

The BLT reflector is available in both smooth and ribbed finishes. Choose RB from the fixture style section below for a

End plates contain easy-to-position integral T-bar dips for securely attaching the luminaire to the T-grid. For additional

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and

environment. A typically configured 2BLT4 features a **Unified Glare Rating (UGR)** starting at 17, UGR data available on

page 8. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Color Variation within 3-step

Configurable BLT: available in High Efficiency (HE) versions for applications where a lower wattage (over the standard

product) is required. The High Efficiency versions deliver > 130 LPW and can be specified via the Lumen Package designations

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current

It can be accomplished with integrated nLight AIR wireless RIO, RES7 sensors, or through standard Cat-5 cabling. nLight

offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created

SENSOR — Integrated sensor (individual control): Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX

((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods,

an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the

ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminairs and wall

switches through our mobile app, CLAIRITY+, which allows for simple sensor adjustment. See page 4 for more details

Integrated Wireless Sensor (single room control): Sensor Switch VERTEX JOT or JOTVTX15 luminaire-embedded occupancy

INSTALLATION — The BLT's low profile design of only 2-3/8" provides increased installation flexibility especially in

restrictive plenum applications. Designed for use in NEMA standard Type G (1" & 15/16"), NFG (9/16"), and SS (9/16") grid

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated. Tested in accordance with ISO 14644-1; suitable

Design Lights Consortium `` (DLC) Premium qualified product and DLC qualified product. Not all versions of this product

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this speci-

fication sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete

warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

P24BP08154 D2

11-27-2024

PIMA COUNTY

DEVELOPMENT SERVICES

APPROVED

NOTE: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.desiqnlights.

and ambient light sensor allows the luminaire to power off when the space is unoccupied or when enough ambient light is

status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

entering the space. See page X for more details on the integrated wireless sensor.

Optional integrated nLight* controls make each luminaire addressable - allowing it to digitally communicate with other

nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. Length: 47-3/4 (121.2)

Step-level dimming option allows system to be switched to 50% powerfor compliance with common energy codes while unless otherwise specified.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages

Depth with Air supply/return: 2-3/4(6.9)

FEATURES & SPECIFICATIONS

T-grid security, optional screw on T-bar dips are available.

LED boards and drivers are accessible from the plenum.

inrush, 89% efficiency and low EMI.

by the traditional practice of over-lighting.

maintaining fixture appearance.

on the Integrated Smart Sensor.

ceilings. Consult factory about other ceiling types.

See Accessories section. Suitable for damp location.

org/QPL to confirm which versions are qualified.

Specifications subject to change without notice.

COMMERCIAL INDOOR

for ISO Class 5-9 positive and negative pressure clean rooms.

Diffusers are extruded from impact modified acrylic for increased durability.

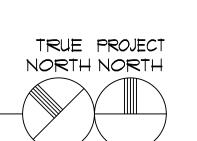
Non-Configurable BLT: Generic 0-10 volt dimming driver. Dims to 10%

nLight AIR is commissioned easily through an intutitive mobile app.

horizontal work surfaces – rendering the interior space, objects and occupants in a m

Five diffuser choices available - curved and square designs with ribbed or a smooth frosted finish.

dimensional consistency.



TRUE PROJECT NORTH NORTH





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REVISIONS

ISSUE DATE Ø8-3Ø-2Ø24 PROJ. NO. 3709.11 DRG. SCALE AS NOTED





Data filename: Z:\Shared\Jobs\2023 Jobs\23075 - Green Valley Guest Services\23075 JOB FILE\comcheck.cck Page 1 of 4

Project Title: GREEN VALLEY RECREATON CENTER - GUEST SERVICES T.I.

Project Title: GREEN VALLEY RECREATON CENTER - GUEST SERVICES T.I.

Section #	Final Inspection	Complies?	Comments/Assumptions
& Req.ID C408.1.1 [FI57] ¹	Building operations and maintenance	□Complies □Does Not □Not Observable □Not Applicable	
Addition	al Comments/Assumptions:	1 2	

Data filename: Z:\Shared\Jobs\2023 Jobs\23075 - Green Valley Guest Services\23075 JOB FILE\comcheck.cck Page 3 of 4

Report date: 08/23/24

Inspection Checklist Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

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

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	□Complies □Does Not □Not Observable □Not Applicable	
C405.8.2, C405.8.2, 1 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	□Complies □Does Not □Not Observable □Not Applicable	
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	□Complies □Does Not □Not Observable □Not Applicable	

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

Project Title: GREEN VALLEY RECREATON CENTER - GUEST SERVICES T.I. Report date: 08/23/24

Data filename: Z:\Shared\Jobs\2023 Jobs\23075 - Green Valley Guest Services\23075 JOB FILE\comcheck.cck Page 2 of 4

-PANEL LEGEND:-

O INDICATES EXISTING CIRCUIT BREAKER & LOAD.

● INDICATES NEW CIRCUIT BREAKER & LOAD.

☐ INDICATES CIRCUIT BREAKER WITH 'LOCK—OFF' DEVICE.

■ INDICATES EXISTING CIRCUIT BREAKER W/CHANGED LOAD.

* INDICATES CONTINUOUS LOAD TAKEN @ 125% PER N.E.C.

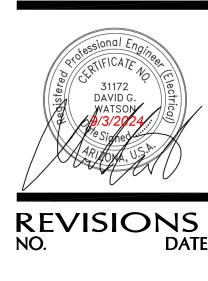
RCUIT BREAKER WITH 'LOCK-OFF' DEVICE.

EXISTING FULLY RATED PANEL 1

PANEL B 100 AMP 120/208	3V., 3ø,	4W	MAIN 1	00 M.L.O. Nema 1 Surf Mtg
LOCATION SEE PLAN	TYPE SE	E C.B.	NOTE	BREAKER RATING 10,000 AIC
USE/AREA SERVED CB N	0 A	LOAD B		No CB USE/AREA SERVED
LTG-EXTERIOR CRAFTS BLDG. 2011	1920 540	-	_	2 20 1 REC - OFFICE
SPARE $\begin{bmatrix} 20 \\ 1 \end{bmatrix}$		_ 1500		4 20 LTG - COLUMN SCONCES
LTG - COLUMN SCONCES $\begin{bmatrix} 20 \\ 1 \end{bmatrix}$			1500 2000	$\frac{1}{6}$ SO LTG - PARKING LOT (S.)
LTG - EXTERIOR ASSEMB. $\frac{20}{1}$	1500 2000	}		8 2
LTG - EXTERIOR ASSEMB. 201		1500 2000	7	10 30 LTG - GROUNDS (REAR)
LTG - EXTERIOR ASSEMB. 2011			1500 2000	12 / 2
SPARE 20 1	3 <u>–</u> 1080	}		14 20 REC - COUNTER
LTG - GROUNDS (FRONT) 30/15		2000	-	16 20 1 SPARE
		•	2000	18 29 1 SPARE
TOTAL (CONNECTED)	5420	7000	9000	
25 % CONTINUOUS	1355	1750	2250	
TOTAL (NEW CONNECTED)	1620	_	_	1620 VA / 120V. = 13.5 A
TOTAL (CODE)	7315	8750	11250	11250 VA / 120V. = 93.8 A

KEYED NOTES:

1) ELECTRICAL CONTRACTOR TO LABEL PANEL 'B' AS PER 2017 NEC 110.22(A) AND 408(A)(2).



V OFFICES - TENANT IMPROVEMENT

MCHECK AND PANEL



GREEN VALLEY RECREATION CENTER
1111 SOUTH GVR DRIVE
GREEN VALLEY ARIZONA 85614

 ISSUE DATE
 Ø8-3Ø-2Ø24

 PROJ.
 NO.
 37Ø9.II

 DRG. SCALE
 A6 NOTED

SHEET

Job No. 23075

CONSULTING

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11-27-2024

ELECTRICAL SYMBOLS (NOTE: ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT)

L.E.D. FIXTURE.

L.E.D. EMERGENCY FIXTURE NL = NIGHT LIGHT - UNSWITCHED EM = LINE SENSITIVE - OPERATES ONLY ON POWER OUTAGE — SWITCHED.

CEILING MOUNTED LIGHT FIXTURE. WALL MOUNTED LIGHT FIXTURE

L.E.D. FIXTURE.

★ EXIT SIGN — SEE LIGHT FIXTURE SCHEDULE.

SURFACE-MOUNT EMERGENCY LIGHTING BATTERY PACK-SINGLE OR DOUBLE HEAD. SEE LIGHT FIXTURE SCHEDULE.

RECESSED EMERGENCY LIGHTING BATTERY PACK-SINGLE OR DOUBLE HEAD. SEE LIGHT FIXTURE SCHEDULE.

JUNCTION BOX IN ACCESSIBLE LOCATION ABOVE REMOVABLE CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LIGHT FIXTURE.

FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT.

() JUNCTION BOX IN ACCESSIBLE LOCATION.

➡ DUPLEX CONVENIENCE RECEPTACLE AT +15" A.F.F. TO BOTTOM OR AS NOTED

DUPLEX CONVENIENCE RECEPTACLE, MTD. ABOVE COUNTER BACKSPLASH OR PER A.D.A. AND ARCHITECT.

DUPLEX CONVENIENCE RECEPTACLE, HALF SWITCHED MTD. 18" A.F.F. UNLESS

NOTED OTHERWISE. SIMPLEX RECEPTACLE, MTD. 18" A.F.F. UNLESS NOTED OTHERWISE.

 \bigoplus FOUR-PLEX CONVENIENCE RECEPTACLE AT +15" A.F.F. TO BOTTOM OR AS NOTED.

 \bigoplus IG ISOLATED GROUND RECEPTACLE AT + 15" A.F.F. TO BOTTOM OR AS NOTED.

RECEPTACLE (TYPE AS SHOWN) AT + 42" A.F.F.

SPECIAL USE RECEPTACLE. VERIFY NEMA NUMBER AND MOUNTING HEIGHT WITH EQUIPMENT. SS_3S_4 TOGGLE SWITCH - SINGLE POLE, 3-WAY, 4-WAY AT +42" OR AS NOTED ON PLANS.

SINGLE-POLE, ILLUMINATED HANDEL OR PILOT LIGHT TOGGLE SWITCH AT +42" OR AS NOTED ON PLANS.

SWITCH - OCCUPANCY SENSOR TYPE. ADJUSTABLE SENSOR SENSITIVITY, THERMAL DETECTION AND MOTION. CEILING MOUNTED.

SWITCH - OCCUPANCY SENSOR TYPE. ADJUSTABLE SENSOR SENSITIVITY, THERMAL DETECTION AND MOTION. WALL MOUNTED.

S_M MOTOR RATED SWITCH WITH THERMAL PROTECTION.

MOTOR SPEED CONTROL SWITCH. FURNISHED BY ELECTRICAL CONTRACTOR.

PHOTOCELL - TORK #2100 - MOUNT ON ROOF AND AIM NORTH.

TIME-SWITCH: TORK 'W' SERIES OR EQUAL.

CIRCUIT IN CONDUIT, CONCEALED. HASH MARKS INDICATE QUANTITY OF CONDUCTORS NO HASH MARKS INDICATE TWO CONDUCTORS, PLUS GROUND(S). (NOTE: WIRE AND OR CONDUIT SIZE SHOWN AT HOMERUN IS THE MINIMUM SIZE FOR THE ENTIRE CIRCUIT: #12 A.W.G. CU, 3/4"C. MINIMUM), LONG STROKE(S) INDICATE NEUTRAL CONDUCTOR(S), SHORT STROKES INDICATE

PHASE OR SWITCHED CONDUCTORS AND LONG STROKES WITH DOT INDICATE GREEN INSULATED GROUNDING CONDUCTOR(S) TYPICAL. EACH ISOLATED GROUND CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GROUND WIRE. BOND WIRES ARE NOT SHOWN ON DRAWINGS. BOND WIRES SHALL BE INSULATED CU. SIZED IN ACCORDANCE WITH N.E.C. #250.

———— CIRCUIT IN CONDUIT CONCEALED IN FLOOR CIRCUIT IN CONDUIT CONCEALED IN WALLS OR ABOVE CEILING.

HOMERUN TO PANELBOARD OR AS NOTED.

PANELBOARD, MOUNT TOP OF PANEL AT + 6'-8". STUB (2) 3/4" E.C. INTO ACCESSIBLE CEILING SPACE ON FLUSH MOUNTED PANELS.

MOTOR: SIZE AND RATING AS SHOWN. EF INDICATES 55-WATT, 120 V. EXHAUST FAN.

A.C. MAGNETIC STARTER BY ELECTRICAL CONTRACTOR. HORSEPOWER, VOLTAGE AND PHASE RATED, NUMBER OF POLES REQUIRED. FURNISH WITH (1) N.O. AUXILLIARY CONTACT (120 V. CONTROL) SINGLE SPEED NON-REVERSING UNLESS OTHERWISE SHOWN ON PLAN.

DISCONNECT SWITCH - HORSEPOWER RATED, FUSED, NEMA 3R WHERE OUTSIDE. N.F. INDICATES NON-FUSED. (FUSE PER EQUIPMENT MANUFACTURERS' SPECIFICATIONS.).

W STRIP HEATER AND CONTROL

MOTOR CONTROLLER - FURNISHED WITH EQUIPMENT.

TELEPHONE OUTLET AT +15" TO BOTTOM OR AS NOTED WITH 3/4"C. UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE.

DATA OUTLET AT + 15" A.F.F. TO BOTTOM OR AS NOTED. STUB 3/4"C. INTO ACCESSIBLE

DATA/TELEPHONE OUTLET AT + 15" A.F.F. TO BOTTOM OR AS NOTED. STUB 3/4"C. INTO ACCESSIBLE CEILING SPACE.

APPROVED TEMPERATURE SEAL-OFF AND EXPANSION JOINTS AS REQ'D BY N.E.C. ART. ──── #300-7.

FLUSH FLOOR FOURPLEX OUTLET AND DATA/TELPHONE OUTLET COMBO WITH BRASS DEVICE

FLUSH FLOOR DATA RECEPTACLE WITH BRASS COVER PLATE AND 3/4" C. STUBBED TO ABOVE

ACCESSIBLE CEILING LOCATION. FLUSH FLOOR TELEPHONE RECEPTACLE WITH BRASS COVER PLATE AND 3/4" C. STUBBED TO

ABOVE ACCESSIBLE CEILING LOCATION. FLUSH FLOOR DUPLEX OUTLET WTIH BRASS DEVICE PLATE.

FLUSH FLOOR FOURPLEX OUTLET WITH BRASS DEVICE PLATE.

ISOLATED GROUND RECEPTACLE "HUBBELL" #IG5263, 20 A, 125 V, FLUSH FLOOR WITH BRASS

TELEVISION OUTLET AT +15" TO BOTTOM OR AS NOTED. STUB 3/4" C. INTO ACCESSIBLE

DIMMER SWITCH AT +42" A.F.F. "LUTRON" NP SERIES. SIZE DIMMER FOR LOAD. TRACK

LIGHTING SHALL HAVE "LUTRON" NP2000 DIMMER. A.D.A. - APPROVED FIRE ALARM STROBE.

A.D.A. - APPROVED FIRE ALARM HORN/STROBE

A.D.A. - APPROVED FIRE ALARM PULL STATION.

A.D.A. - APPROVED SMOKE DETECTOR MOUNTED IN CEILING OR AS INDICATED

DUCT DETECTOR

♦ FLOW SWITCH. BY OTHERS

◆ TAMPER SWITCH. BY OTHERS

A.D.A. - APPROVED CARBON DIOXIDE DETECTOR MOUNTED IN CEILING. ALL DETECTORS TO BE 120VAC AND TIED TOGETHER FOR SIGNALING ABILITY.

BH FIRE ALARM BELL

WP WEATHERPROOF.

T.M.B. TELEPHONE MOUNTING BOARD: 4' x 8' x 3/4" PLYWOOD WITH #6 CU. BOND WIRE TO GROUNDING ELECTRODE SYSTEM.

ELECTRICAL SYSTEM SPECIFICATIONS - DIVISION 16000

GENERAL CONDITIONS

THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING THE CONDITIONS OF THE CONTRACT (GENERAL, SUPPLEMENTARY AND OTHER CONDITIONS) AND DIVISION 1 - GENERAL REQUIREMENTS AS APPROPRIATE, APPLY TO THE WORK SPECIFIED IN THIS SECTION.

THE WORK INCLUDED UNDER THIS SECTION CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR AND THE PERFORMING OF ALL FUNCTIONS, EXCEPT AS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE DRAWINGS TO BE PERFORMED BY OTHERS, FOR THE INSTALLATION AND PLACING INTO OPERATION OF A COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE DRAWINGS.

THE WORK IN GENERAL SHALL CONSIST OF, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING.

FURNISHING AND INSTALLING ALL ELECTRICAL WORK, PANELS, SERVICE, CONDUIT, WIRING, ETC., FOR ALL OUTLETS AND EQUIPMENT. FURNISHING AND INSTALLING ALL TELEPHONE OUTLETS, CONDUITS WITH PULL STRINGS AND TELEPHONE MOUNTING BOARDS INCLUDING CONDUIT FROM TELEPHONE MOUNTING BOARD TO THE BUILDING

HUNDRED DOLLARS) ALLOWANCE FOR POWER AND TELEPHONE COMPANY UTILITY SERVICE CHARGES. DIFFERENCE BETWEEN ACTUAL COST AND ALLOWANCE TO BE

FURNISHING AND INSTALLING ALL MOTOR STARTERS AND CONTROL COMPONENTS, NOT SPECIFICALLY SPECIFIED TO BE FURNISHED IN ACCORDANCE WITH OTHER SECTIONS OF THE SPECIFICATIONS.

THAT WHICH IS PRE-WIRED IN FACTORY ASSEMBLED EQUIPMENT. INSTALLING ALL LINE VOLTAGE MECHANICAL CONTROL WIRING AND ASSOCIATED CONTROLS WHICH ARE FURNISHED BY THE MECHANICAL CONTRACTOR (LOW VOLTAGE CONTROL WIRING AND CONTROLS SHALL BE

3.1.9 PAINTING WORK AS DESCRIBED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS. CLEAN AND PREPARE ALL SURFACES READY FOR PAINTING.

BELOW. THIS SERVICE SHALL BE MAINTAINED THROUGHOUT THE ENTIRE JOB AS THE WORK PROGRESSES. PROVIDE OUTLETS AT CONVENIENT NOT RECEIVING SUFFICIENT DAYLIGHT REQUIRED FOR SAFETY. REMOVE TEMPORARY WORK AS RAPIDLY AS REQUIRED FOR OR ALLOWED BY

CERTAIN ITEMS OF WORK BY OTHER TRADES WILL BE NECESSARY FOR THE COMPLETION OF WORK UNDER THIS DIVISION. COOPERATE WITH OTHER TRADES AND ARRANGE FOR THESE ITEMS TO BE PERFORMED IN ORDERLY COURSE.

3.1.13 REVIEW ALL DRAWINGS AND ALL SPECIFICATIONS FOR EACH REQUIRED FOR COMPLETION OF WORK FOR OTHER TRADES, WHETHER OR NOT SAME IS SHOWN OR NOTED IN THIS OR OTHER SECTIONS.

GENERAL REQUIREMENTS

ALL EQUIPMENT FURNISHED SHALL FIT THE SPACE AVAILABLE, WITH CONNECTION, ETC., IN THE REQUIRED LOCATIONS AND WITH ADEQUATE SPACE FOR OPERATING AND SERVICING. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE MANNER AND METHOD OF THE INSTALLATION, WHILE THE SPECIFICATIONS AND FIXTURE LIST DENOTE THE TYPE AND QUALITY OF MATERIAL AND WORKMANSHIP TO BE USED. WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER WHOSE DECISION SHALL BE FINAL. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONNECTION IN BEHALF OF THE

SCOPE OF WORK

GENERAL DESCRIPTION

FURNISHING AND INSTALLING ALL FIXTURES WITH LAMPS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN UNLESS NOTED.

ENTRANCE AS INDICATED ON THE PLAN. 3.1.4 FURNISHING AND INSTALLING A COMPLETE FIRE ALARM SYSTEM AS INDICATED ON PLANS.

CREDITED OR BILLED TO THE OWNER.

FURNISHING AND INSTALLING ALL POWER AND WIRING EXCEPT

FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR).

3.1.10 PROVIDE TEMPORARY CONSTRUCTION POWER AS OUTLINED POINTS AND IN SUFFICIENT NUMBERS SO THAT NO EXTENSION CORD OVER 50 FEET IN LENGTH IS REQUIRED TO REACH ANY WORK POINT. MAINTAIN GENERAL LIGHTING IN CORRIDORS, STAIRS, BASEMENT AND OTHER AREAS INSTALLATION OF PERMANENT WORK.

3.1.12 THIS CONTRACTOR SHALL REVIEW THE MECHANICAL CONTROL REQUIREMENTS AS SPECIFIED AND SHOWN ON THE DRAWINGS AND SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRING, BOXES, PROTECTIVE DEVICES, SWITCHES, ETC., FOR THE COMPLETION AND PROPER OPERATION OF THE SYSTEM.

SECTION OF WORK. UNLESS SPECIFICALLY NOTED OTHERWISE, HEREIN OR ELSEWHERE, FURNISH AND INSTALL ITEMS OF ANY ELECTRICAL NATURE

REGULATIONS AND CODES

THE CONTRACTOR MUST COMPLY WITH ALL STATE, MUNICIPAL AND FEDERAL SAFETY LAWS, CONSTRUCTION CODES, ORDINANCES AND REGULATIONS RELATING TO BUILDING AND PUBLIC HEALTH AND SAFETY. IN ADDITION, COMPLY WITH RULES AND REGULATIONS OF THE STATE FIRE PROTECTION CODE. FIRE PROTECTION MATERIAL MUST BEAR THE FIRE UNDERWRITERS LABORATORIES LABEL.

THE CONTRACTOR SHALL EXAMINE THE PREMISES AND SATISFY HIMSELF OF EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE IN PERFORMING HIS PART OF THE WORK OR THAT WILL IN ANY MANNER AFFECT THE WORK UNDER THE CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH OTHER TRADES SO THAT THE INSTALLATIONS OF ALL EQUIPMENT MAY BE PROPERLY COORDINATED.

CONTRACTOR AFTER AWARD OF THE CONTRACT.

EQUIPMENT AND MATERIAL

ALL MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE NEW (EXCEPT AS NOTED), FREE FROM DEFECTS OF ANY CHARACTER, SHALL CONFORM WITH THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC. (U.L.) (OR OTHER NATIONALLY RECOGNIZED LABORATORY), IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED AND SHALL BE SO LABELED. IT IS THE INTENTION OF THESE SPECIFICATIONS TO INDICATE A STANDARD OF QUALITY FOR ALL MATERIALS INCORPORATED IN THIS WORK, AND WHERE MATERIALS ARE NOT SPECIFIED HEREIN AND ARE REQUIRED TO COMPLETE THE ELECTRICAL INSTALLATION, THESE MATERIALS SHALL BE OF FIRST QUALITY FOR USE INTENDED. MANUFACTURERS OF SIMILAR QUALITY PRODUCTS WILL BE

MATERIALS SHALL BE SUITABLE FOR INTENDED USE AND LOCATION. UNLESS OTHERWISE SHOWN USE NEMA-1 FOR INTERIOR AREAS AND NEMA-3R FOR EXTERIOR AREAS.

CONSIDERED UNLESS THE SPECIFICATIONS OR DRAWINGS INDICATE

THE ARCHITECT/ENGINEER DECISION AS TO EQUAL IN GRADE AND QUALITY SHALL RULE AND BE FINAL FOR ALL ELECTRICAL MATERIALS INCORPORATED IN THIS WORK. WHERE TWO OR MORE SIMILAR TYPE ITEMS ARE FURNISHED, ALL SHALL BE OF THE SAME MANUFACTURER (E.G., ALL DISCONNECT SWITCHES SHALL BE OF THE SAME MANUFACTURER) UNLESS OTHERWISE NOTED HEREIN OR SHOWN ON THE DRAWINGS. ALL MATERIAL AND INSTALLATION METHODS USED SHALL BE IN ACCORDANCE WITH THE LATEST AND APPROVED ELECTRICAL AND MECHANICAL ENGINEERING PRACTICES.

SERVICE ENTRANCE EQUIPMENT

OTHERWISE.

SIEMENS/ITE.

SERVICE ENTRANCE EQUIPMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPAL GOVERNING BODY AND SERVING UTILITY. SHOP DRAWINGS SHALL BE SUBMITTED TO THE SERVING UTILITY FOR WRITTEN APPROVAL BEFORE ORDERING EQUIPMENT.

DEVICE PER SECTION 16000.22. APPROVED MANUFACTURERS ARE: SUN VALLEY, SQUARE D, CUTLER-HAMMER, SIEMENS/ITE.

LABEL EQUIPMENT AND EACH INDIVIDUAL OVERCURRENT

EACH PANEL SHALL BE PROVIDED WITH DOOR LOCK AND TWO KEYS, ALL KEYED ALIKE. EACH PANEL SHALL BE PROVIDED WITH TYPEWRITTEN SHEET INSTALLED ON DOOR IDENTIFYING THE USE OF EACH BRANCH CIRCUIT. PANELS SHALL HAVE BUSSING AS INDICATED ON THE

LABEL EQUIPMENT PER SECTION 16000.22 8.3 APPROVED MANUFACTURERS ARE: SQUARE D, CUTLER-HAMMER,

ALL PANEL SCHEDULES WILL HAVE TYPED PANEL SCHEDULES AS PER I.B.C. SECTION 107.2.1.

ALL MOTOR STARTERS SHALL BE FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS UNLESS AN INTEGRAL PART OF EQUIPMENT OR NOTED AS FURNISHED WITH EQUIPMENT SPECIFIED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS.

SEPARATELY MOUNTED MOTOR STARTERS SHALL BE ACROSS- THE-LINE COMBINATION MAGNETIC WITH 120V COILS, FUSED DISCONNECT CONTACTORS, ADDITIONAL AUXILIARY CONTACT FOR INTERLOCKING OF CONTROLS. PROVIDE PUSHBUTTON OR SELECTOR SWITCH IN COVER. SWITCHBOARD MOUNTED STARTERS SHALL BE MAGNETIC WITH 120V COILS AND ADDITIONAL AUXILIARY CONTACTS AS REQUIRED FOR INTERLOCKING OF CONTROLS. STARTERS SHALL HAVE AN NIEGRAL CONTROL CIRCUIT TRANSFORMER OR SEPARATE 120V CONTROL

WITH CONTROL CIRCUIT DISCONNECT SWITCH IN COVER. MANUAL STARTERS SHALL BE HORSEPOWER, VOLTAGE AND PHASE RATED WITH OVERLOAD PROTECTION AND GREEN "ON" PILOT LIGHT. SURFACE MOUNTED UNLESS NOTED OTHERWISE.

ALL STARTERS SHALL HAVE OVERLOAD PROTECTION IN ALL PHASE LINES. FURNISH AND INSTALL THE PROPER SIZE OVERLOAD HEATER ELEMENTS DETERMINED FROM FULL LOAD NAMEPLATE READINGS ON MOTORS AND COMPENSATION FOR AMBIENT TEMPERATURE IN ALL STARTERS WHETHER THEY BE FURNISHED UNDER THIS SECTION OR OTHER

LABEL PER SECTION 16000.22

APPROVED MANUFACTURERS ARE: SQUARE D <u>TRANSFORMERS</u>

TRANSFORMERS SHALL BE DRY TYPE, WITH VOLTAGE RATINGS AS INDICATED ON PLANS. TRANSFORMERS SHALL BE RATED FOR FOR FULL LOAD OPERATION AT A MAXIMUM 150 DEGREE CENTIGRADE RISE ABOVE A 40 DEGREE CENTIGRADE AMBIENT OR AS OTHERWISE NOTED ON DRAWINGS. PROVIDE AT LEAST (4) 2 1/2 PERCENT TAPS, TWO ABOVE NORMAL AND TWO BELOW NORMAL AND HAVE A SOUND RATING NOT TO EXCEED NEMA STANDARDS. SPECIAL "K" FACTOR RATINGS AS NOTED.

SUBMIT COMPLETE TRANSFORMER DATA WITH SHOP DRAWINGS FOR APPROVAL. THE DATA SHALL INCLUDE EFFICIENCIES, CORE AND COPPER LOSSES, IMPEDANCE, REGULATION AND SOUND LEVEL. INSTALLATION OF TRANSFORMERS SHALL BE ON VIBRATION ISOLATORS AND ALL WIRING CONNECTIONS WITH FLEXIBLE CONDUIT.

SAME MANUFACTURER AS DISTRIBUTION EQUIPMENT.

EQUAL TO LTV STEEL

LABEL PER SECTION 16000.22 APPROVED MANUFACTURERS ARE: ACME, SQUARE D, JEFFERSON, CUTLER-HAMMER, WESTINGHOUSE, GENERAL ELECTRIC, OR

METALLIC CONDUITS SHALL BE HOT DIPPED GALVANIZED

DAMAGE (EITHER DURING OR AFTER INSTALLATION), (7) IN ANY HAZARDOUS (CLASSIFIED LOCATION) EXCEPT AS PERMITTED BY 502.10 503.10 AND 504.20. (8) WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR. SIZE AND PROVIDE EQUÍPMENT GROUNDING CONDUCTOR PER ARTICLE 250 AND INCREASE CONDUIT SIZE IF REQUIRED. RIGID PVC CONDUIT IS PERMITTED ONLY UNDERGROUND OR

ELECTRIC METALLIC TUBING (EMT) IS PERMITTED FOR

EXPOSED WORK ABOVE 6'-0" A.F.F. OR CONCEALED WORK ONLY. EMT IS

NOT PERMITTED IN THE FOLLOWING: (1) IN OR UNDER CONCRETE, (2) IN

DISSIMILAR METALS, (6) WHERE IT WILL BE SUBJECT TO SEVERE PHYSICAL

EARTH, (3) IN GROUTED WALLS, (4) EXTERIOR OF BUILDING, (5) WITH

AS NOTED ON DRAWINGS. PROVIDE RIGID STEEL ELBOWS AND RISERS (NO MINIMUM SIZE). SIZE AND PROVIDE EQUIPMENT GROUNDING CONDUCTOR PER ARTICLE 250 AND INCREASE CONDUIT SIZE IF REQUIRED.

RIGID GALVANIZED OR SHERADIZED STEEL SHALL BE USED FOR ALL EXPOSED CONDUIT BELOW 6'-0" A.F.F. OR AS NOTED ON DRAWINGS. WHERE USED IN OR UNDER CONCRETE OR IN EARTH, SHALL BE CODE APPROVED PVC COATED OR HALF LAP WRAPPED WITH POLYKEN #900 TAPE OR EQUAL.

INSTALL EXPOSED RACEWAYS PARALLEL AND PERPENDICULAR TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW THE SURFACE CONTOURS AS MUCH AS PRACTICAL.

RUN EXPOSED, PARALLEL, OR BANKED RACEWAYS TOGETHER. MAKE BENDS IN PARALLEL OR BANKED RUNS FROM THE SAME CENTER LINE SO THAT THE BENDS ARE PARALLEL. FACTORY ELBOWS MAY BE USED IN BANKED RUNS ONLY WHERE THEY CAN BE INSTALLED PARALLEL. THIS REQUIRES THAT THERE BE A CHANGE IN THE PLANE OF THE RUN SUCH AS FROM WALL TO CEILING AND THAT THE RACEWAYS BE OF THE SAME SIZE. IN OTHER CASES PROVIDE FIELD BENDS FOR PARALLEL

RACEWAYS.

SOFT DRAWN ANNEALED COPPER (UNLESS OTHERWISE NOTED ON PLANS) HAVING CONDUCTIVITY OF NOT LESS THAN 98% OF THAT OF PURE COPPER, UNIFORM IN CROSS SECTION, FREE FROM FLAWS, SCALES, AND OTHER IMPERFECTIONS. ALL WIRE LARGER THAN #10 SHALL BE

INSULATION: TYPE THHN/THWN, OR XHHW FOR ALL BRANCH CIRCUIT AND FEEDER WIRING. SIZES: NO WIRE SMALLER THAN #12 UNLESS OTHERWISE NOTED ON DRAWINGS.

FEEDER CONDUCTORS #2 AWG AND LARGER MAY BE COPPER OR AA-8000 SERIES ALLUMINUM ALLOY. ALLUMINUM CONDUCTORS SHALL BE EQUAL OR LARGER AMPACITY TO COPPER. CONDUIT FILL SHALL NOT EXCEED 40% FACTOR AS DESCRIBED IN 2011 NEC, ANNEX C, TABLE C1 (COPPER) OR C1A (ALUMINUM). ALL GROUND (BOND) CONDUCTORS WILL BE COPPER.

MISCELLANEOUS MATERIALS:

SAFETY SWITCHES: HEAVY DUTY, FUSED REJECTION TYPE, MINIMUM 200,000 A.I.C. RATED. "NF" INDICATES NOT FUSED. 13.1.1 LABEL PER SECTION 16000.22

13.1.2 APPROVED MANUFACTURERS ARE: SQUARE D, SIEMENS, CUTLER-HAMMER, WESTINGHOUSE, GENERAL ELECTRIC OR SAME MANUFACTURERS AS DISTRIBUTION EQUIPMENT.

FUSES: "BUSSMANN" OR "GOULD SHAWMUT" MFG. NO

SUBSTITUTIONS UNLESS BY PRIOR WRITTEN APPROVAL FROM ENGINEER, OR AS NOTED ON DRAWINGS. CONDUIT STRAP: HEAVY GAUGE STEEL SNAP-ON TYPE. ELECTRICAL METALLIC TUBING FITTINGS: EQUAL TO T&B

RIGID CONDUIT LOCKNUTS AND BUSHINGS: EQUAL TO T&B. FLEXIBLE CONDUIT AND FITTINGS: EQUAL TO CALIFORNIA CONDUIT AND CABLE COMPANY, INC.

COMPRESSION TYPE. CONNECTORS SHALL HAVE INSULATED BUSHINGS.

EQUIPMENT CONNECTIONS. OUTLET BOXES, PLASTER RINGS, PULL, AND JUNCTION BOXES, ETC: EQUAL TO RACO. ZINC COATED OR CADMIUM PLATED SHEET STEEL FOR INDOOR LOCATIONS, CAST ALUMINUM FOR OUTDOOR

LIQUID TIGHT CONDUIT AND FITTINGS FOR ALL EXTERIOR AND

FOR SWITCHES AND RECEPTACLES: 4" OR 4-11/16"

JUNCTION AND PULL BOXES: 4" SQUARE MINIMUM SIZE.

DEVICE PLATES: "HUBBELL", "LEVITON", OR EQUAL. COLORS

13.8.1 FOR ALL LIGHT FIXTURES: OCTAGON OR 4" SQUARE BOXES.

LOCATIONS. CONDULETS: EQUAL TO CROUSE-HINDS. 13.9 WIRE AND CABLE: EQUAL TO GENERAL CABLE AND/OR

PROVIDE WITH SCREWFASTENED COVERS LOCATED IN ACCESSIBLE

LOCATIONS.

SIMPLEX.

DEVICES: "HUBBELL", "LEVITON", OR APPROVED EQUAL RECEPTACLES: DUPLEX-20 AMP #5242, ISOLATED GROUND - 20 AMP #IG-16262-IG, GFCI- 20 AMP #GF-N7899. SWITCHES: 20 AMP #1221 SINGLE POLE, 1222 DOUBLE POLE, 1223 THREE WAY, 1224 FOUR WAY. COLORS TO BE SPECIFIED BY ARCHITECT/OWNER/TENANT.

TO MATCH EXISTING OR AS NOTED ON DRAWINGS. ZINC DIE CAST FLIP

LID MOUNTED HORIZONTALLY FOR EXTERIOR OR WEATHERPROOF

(SOME SECTIONS MAY NOT APPLY) LIGHTING FIXTURES: EQUAL TO AS SHOWN ON FIXTURE SCHEDULE OR DESCRIBED ON DRAWINGS, COMPLETE WITH LAMPS IN ORIGINAL CARTONS AND ALL CANOPIES, STEMS, HANGERS AND ACCESSORIES INCLUDING ALL STRUCTURAL MEMBERS REQUIRED FOR PROPER MOUNTING. ALL FLUORESCENT FIXTURE BALLASTS SHALL BE ENERGY SAVING TYPE. SUBMIT SHOP DRAWINGS TO ARCHITECT/ENGINEER FOR APPROVAL BY THE SAME. MUST BE C.E.C. APPROVED IN CALIF.

13.14 LAMPS: G.E. OR EQUAL AND SHALL BE FOR THE MAXIMUM RATED WATTAGE OF FIXTURE UNLESS OTHERWISE SHOWN ON DRAWINGS. SLEEVES, INSERTS, OPENINGS

CONTRACTOR SHALL LAYOUT AND INSTALL HIS WORK IN ADVANCE OF POURING CONCRETE FLOORS OR WALLS. PROVIDE ALL SLEEVES AND/OR OPENINGS THROUGH FLOORS OR WALLS REQUIRED FOR ELECTRICAL CONDUITS OR DUCTS.

SLEEVES SHALL BE OF RIGID CONDUIT OR GALVANIZED SHEET STEEL RIGIDLY SUPPORTED AND SUITABLY PACKED TO PREVENT ENTRANCE OF WET CONCRETE.

EXCAVATION/CUTTING/FITTING/REPAIRING/FINISHING

THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL EXCAVATION, COMPACTION, FILL, BACKFILL, CUTTING, FITTING, REPAIRING AND FINISHING OF ALL WORK NECESSARY FOR THE INSTALLATION OF ALL EQUIPMENT UNDER THIS SPECIFICATION BUT NO CUTTING OF THE WORK OF OTHER CONTRACTORS SHALL BE DONE WITHOUT THE CONSENT OF THE GENERAL CONTRACTOR.

EARTHWORK SHALL BE DONE IN ACCORDANCE WITH LATEST INDUSTRY STANDARDS.

CLEANUP OF PREMISES

CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES CLEAR OF WASTE MATERIALS AND DEBRIS CAUSED BY HIS EMPLOYEES AND OPERATION. EQUIPMENT NOT REQUIRED IN THE WORK SHALL BE REMOVED PRIOR TO THE TERMINATION OF THE CONTRACT. TESTS AND INSPECTIONS

CONTRACTOR SHALL TEST WIRING AND DEVICES AS SECTIONS ARE COMPLETED AND SHALL CORRECT ALL DEFECTS IMMEDIATELY AT HIS OWN EXPENSE, INCLUDING ANY DAMAGE TO WALLS, CEILINGS, FLOOR OR OTHER PORTIONS OF THE BUILDING WHICH MAY RESULT FROM REPLACING DEFECTIVE EQUIPMENT.

FURNISH ALL METERS, CABLE, CONNECTIONS AND

APPARATUS NECESSARY FOR MAKING TESTS.

TEST SYSTEM FOR SHORTS AND GROUNDS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. ANY DEVICE, APPARATUS OR FIXTURE INSTALLED SHOWING SUBSTANDARD PERFORMANCE SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ARCHITECT/ENGINEER. MEGGER ALL SYSTEMS NEUTRALS TO INSURE THE NEUTRAL IS NOT GROUNDED WITHIN THE SYSTEM.

ALL EQUIPMENT RATED AT 1,000 AMPS OR MORE, OR 480 VOLTS SHALL BE TESTED FOR INSULATION BREAKDOWN PRIOR TO ITS BEING ENERGIZED. SUCH EQUIPMENT SHALL WITHSTAND FOR A PERIOD OF ONE MINUTE WITHOUT BREAKDOWN, THE APPLICATION OF A 60HZ ALTERNATING POTENTIAL OF 1,000V PLUS TWICE THE RATED VOLTAGE OF THE DEVICE.

17.6 AFTER THE ELECTRICAL WIRING SYSTEM INSTALLATION IS

COMPLETED AND AT SUCH TIME AS THE ARCHITECT/ENGINEER OR HIS

AUTHORIZED REPRESENTATIVE MAY DIRECT, THE CONTRACTOR SHALL

CONDUCT AN OPERATING TEST FOR APPROVAL. EQUIPMENT SHALL BE DEMONSTRATED TO OPERATE IN ACCORDANCE WITH REQUIREMENTS OF SPECIFICATIONS. TEST SHALL BE PERFORMED IN PRESENCE OF ARCHITECT/ENGINEER OR HIS REPRESENTATIVE.

ALL DATA SHALL BE SUBMITTED AT ONE TIME, BOUND AND INDEXED IN AN ORDERLY MANNER. PRIOR TO STARTING THE WORK, SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL, SIX (6) SETS OF SHOP DRAWINGS OF SERVICE (S.E.S.), PANELS, DISTRIBUTION SECTIONS,

LIGHT FIXTURES, MOTOR CONTROL CENTERS, FIRE ALARM SYSTEM,

DIMMERS, SOUND SYSTEM, EMERGENCY GENERATOR, DEVICES,

DRAWINGS OF RECORD (AS-BUILT)

SHOP DRAWINGS

EQUIPMENT TO BE FABRICATED. PROCURE SHOP DRAWINGS, WIRING DIAGRAMS, ETC., FROM OTHER TRADES INVOLVED WHERE SUCH DRAWINGS MAY FACILITATE AND EXPEDITE THE WORK. AIR CONDITIONING AND MECHANICAL EQUIPMENT SHALL BE WIRED COMPLETE AS PER MANUFACTURER'S WIRING DIAGRAMS FURNISHED BY THE AIR CONDITIONING AND MECHANICAL CONTRACTORS.

TRANSFORMERS, LABELS AS REQUIRED BY 16000.22, AND ALL OTHER

AS-BUILT DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH AND IF REQUIRED BY DIVISION 1 - GENERAL REQUIREMENTS. <u>GUARANTEE</u> THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND

EQUIPMENT TO BE FREE FROM DEFECT OF MATERIAL AND WORKMANSHIP

AND SHALL REPLACE OR REPAIR WITHOUT COST TO THE OWNER ALL

DEFECTIVE MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE.

THE MANUFACTURER.

<u>INSTRUCTIONS</u> CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER OPERATING AND MAINTENANCE OF THE EQUIPMENT.

AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT PROVIDED

BY THIS DISCIPLINE, ONLY WHEN SUCH MANUALS ARE AVAILABLE FROM

ALL MANUALS TO BE BOUND IN A 3-RING BINDER AND TABULATED IN AN ORDERLY MANNER.

22.2 LABEL EQUIPMENT WITH NAME, AMPERAGE, VOLTAGE, PHASE, AND WIRES (I.E. PANEL "A", 400A., 120/208V,30,4W). SUBMIT

LIST OF ALL LABELS WITH WORDING FOR REVIEW AS PER 16000.18.

(S.E.S.) AND ALL OVERCURRENT DEVICES, DISTRIBUTION SECTIONS AND ALL OVERCURRENT DEVICES, MOTOR CONTROL CENTERS (M.C.C.) AND ALL OVERCURRENT DEVICES, FUSIBLE PANELBOARDS AND ALL OVERCURRENT DEVICES, PANELS, STARTERS AND TRANSFORMERS. LABEL OTHER

EQUIPMENT TO BE LABELED SHALL INCLUDE SERVICE

SCREWS WITH NUTS, FLAT AND LOCK WASHERS.

EQUIPMENT AS NOTED ON PLANS.

<u>LABELING</u> LABELS SHALL BE ENGRAVED, BLACK ON WHITE MELAMINE PLASTIC LAMINATE, 1/16" MINIMUM THICKNESS FOR SIGNS UP TO 20 SQUARE INCHES OR 8 INCHES LONG; 1/8" THICK FOR LARGER SIZES. ENGRAVED LEGEND SHALL BE IN WHITE LETTERS ON BLACK FACE WITH MINIMUM 3/16" HIGH LETTERS. LABELS SHALL BE PUNCHED AND FASTENED TO EQUIPMENT WITH ALUMINUM RIVETS OR SELF TAPPING STAINLESS STEEL SCREWS OR NUMBER 10/32 STAINLESS STEEL MACHINE

CONTRACTOR SHALL PROVIDE TWO (2) SETS OF OPERATING

REVISIONS

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DRG. SCALE AS NOTED **Job No. 23075** CONSULTING

ISSUE DATE Ø8-3Ø-2Ø24

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