LIVE OAK COUNTY

LIVE OAK CCH RESTORATION - PHASE II

100% CONSTRUCTION DOCUMENTS

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REGISTERED ARCHITECT
TIMOTHY B. HANNAN JR.
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: TITLE SHEET

PROJECT NO: 2308 A1

△	REVISIONS	DATE
1	ADD 1	04/15/26

SHEET NO: G-100

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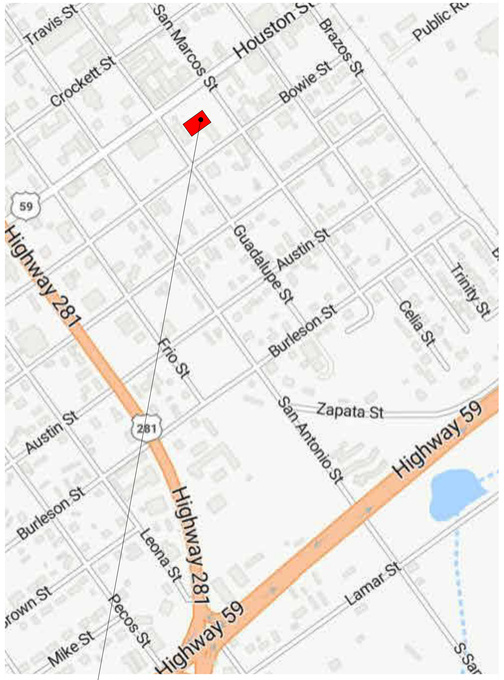
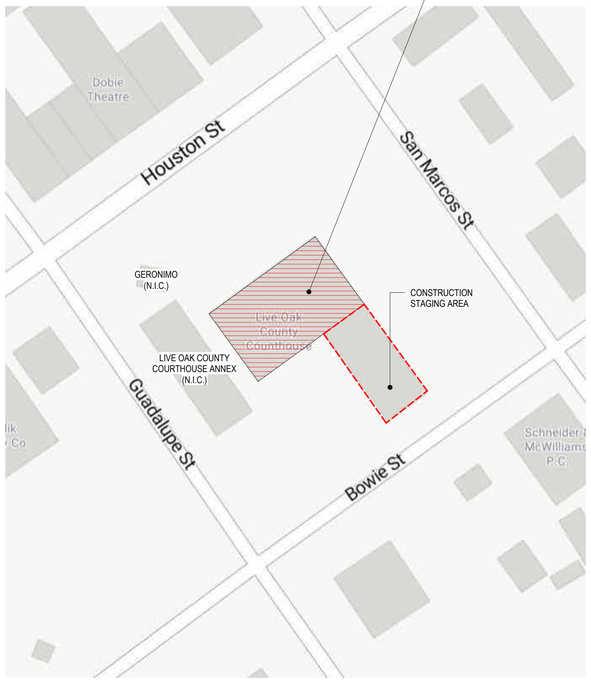
LOCATION MAPS



LIVE OAK COUNTY COURTHOUSE
301 HOUSTON ST.
GEORGE WEST, TX 78022



CODE INFO & ANALYSIS

APPLICABLE CODES AND STANDARDS:

THIS PROJECT IS IN THE CITY OF GEORGE WEST, TEXAS. THE CITY OF GEORGE WEST CURRENTLY HAS ADOPTED THE FOLLOWING CODES WITH LOCAL AMENDMENTS:

- 2006 INTERNATIONAL EXISTING BUILDING CODE
- 2006 INTERNATIONAL BUILDING CODE
- 2006 INTERNATIONAL FIRE CODE
- 2006 INTERNATIONAL MECHANICAL CODE
- 2006 INTERNATIONAL PLUMBING CODE
- 2008 NATIONAL ELECTRICAL CODE
- 2006 INTERNATIONAL ENERGY CONSERVATION CODE
- 2012 TEXAS ACCESSIBILITY STANDARDS

OCCUPANCY CLASSIFICATION:
- GROUP A-3 (COURTHOUSE)
- GROUP B

CLASSIFICATION OF WORK:
- ALTERATION - LEVEL 2

CONSTRUCTION CLASSIFICATION:
- TYPE - IIB

ZONING CLASSIFICATION:
- C-1 (PRIMARY COMMERCIAL DISTRICT)

FIRE PROTECTION SYSTEMS
EXISTING STANDPIPES TO REMAIN

AREAS:
- ALLOWABLE TOTAL AREA - A-3.....9,500 SF
- ALLOWABLE TOTAL AREA - B.....23,000 SF
- ACTUAL TOTAL AREA (EXISTING, GROSS)
  - BASEMENT - 1,944 SF***
  - FIRST FLOOR - 7,541 SF
  - SECOND FLOOR - 7,260 SF
  - THIRD FLOOR - 4,230 SF
  - TOTAL - 19,031 SF
- ALLOWABLE TOTAL AREA OF INCREASE (5%).....952 SF
- ACTUAL TOTAL AREA OF INCREASE
  - BASEMENT - 3,030 SF (+ 1,099 SF)***
  - FIRST FLOOR - 7,541 SF
  - SECOND FLOOR - 7,234 SF (- 26 SF)
  - THIRD FLOOR - 4,163 SF (- 67 SF)
  - TOTAL - 21,981 SF (+ 1,006 SF)***

****PER SECTION 506.1.1 OF THE 2006 IBC, A SINGLE BASEMENT THAT IS NOT A STORY ABOVE GRADE PLAN NEED NOT BE INCLUDED IN THE TOTAL ALLOWABLE AREA. PROVIDED SUCH BASEMENT DOES NOT EXCEED THE AREA PERMITTED FOR A BUILDING WITH NO MORE THAN ONE STORY ABOVE GRADE PLANE.*

EGRESS CAPACITY (OCCUPANT LOAD):
- TOTAL OCCUPANCY - 338 OC.
- REQUIRED EGRESS WIDTH - (338 X 0.2") 67.6"
- EXISTING PROVIDED EGRESS WIDTH - 292"

PLUMBING FIXTURE ANALYSIS

OCCUPANCY	WATER CLOSETS MALE	WATER CLOSETS FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	BATHTUBS/ SHOWERS	DRINKING FOUNTAIN	OTHER
Occupant Load: 400	Distribution: 50% Male	50% Female					
B	5 *	5	4	4	0	4	1 service sink
	1/25 for the first 50 & 1/50 for the remainder exceeding 50	1/25 for the first 50 & 1/50 for the remainder exceeding 50	1/40 for the first 80 & 1/80 for the remainder exceeding 80	1/40 for the first 80 & 1/80 for the remainder exceeding 80		1/150	
	* Urinals shall not substituted for more than 50% of the required water closets						
Occupant Load: 400	Distribution: 50% Male	50% Female					
A-3	2 *	3	1	1	0	1	1 service sink
	1/150	1/75	1/200	1/200		1/1000	
	* Urinals shall not substituted for more than 67% of the required water closets						

SPECIAL INSPECTIONS

IBC SECTION		APPLICABLE	NOT APPLICABLE
1705.1.1	SPECIAL CASES	-	X
1705.2	STEEL CONSTRUCTION	X	-
1705.3	CONCRETE CONSTRUCTION	X	-
1705.4	MASONRY CONSTRUCTION	X	-
1705.5	WOOD CONSTRUCTION	-	X
1705.6	SOILS	-	X
1705.7	DRIVEN DEEP FOUNDATIONS	-	X
1705.8	CAST-IN-PLACE DEEP FOUNDATIONS	-	X
1705.9	HELICAL PILE FOUNDATIONS	-	X
1705.10	FABRICATED ITEMS	-	X
1705.11	SPECIAL INSPECTIONS FOR WIND RESISTANCE	-	X
1705.12	SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	-	X
1705.13	TESTING FOR SEISMIC RESISTANCE	-	X
1705.14	SPRAYED FIRE RESISTANT MATERIALS	-	X
1705.15	MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	-	X
1705.16	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	-	X
1705.17	FIRE-RESISTANT PENETRATIONS AND JOINTS	-	X
1705.18	TESTING FOR SMOKE CONTROL	-	X
1706	DESIGN STRENGTHS OF MATERIALS	-	X
1707	ALTERNATIVE TEST PROCEDURES	-	X
1708	IN-SITU LOAD TESTS	-	X
1709	PRECONSTRUCTION LOAD TESTS	-	X

The owner shall pay for all special inspections associated with this project.

ARCHITECTURAL ENERGY SUMMARY

METHOD OF ENERGY COMPLIANCE	2015 IECC PRESCRIPTIVE PATH USING COMCHECK 2015 IECC		
DESCRIPTION	**SECTION OF IECC**	**SECTION OF ASHRAE**	**COMMENT**
R-VALUE OF WALLS, ROOFS AND SLABS (if using R-value for building thermal envelope)	C402.1.3 *(Prescriptive Only)*	5.5.3 *(Prescriptive Only)*	**WALLS:** CAVITY R-VALUE = CONTINUOUS R-VALUE = **ROOF:** CONTINUOUS R-VALUE = **SLAB:** R-VALUE =
U-VALUE OF WALLS, ROOFS AND SLABS (if using the assembly method for the building thermal envelope)	C402.1.4 *(Prescriptive Only)*	5.5.3 *(Prescriptive Only)*	**WALLS:** U-VALUE = **ROOF:** U-VALUE = **SLAB:** U-VALUE =
ROOF SOLAR REFLECTANCE & THERMAL EMITTANCE	C402.3 *(Prescriptive Only)*	5.5.3.1.1 *(Prescriptive Only)*	ROOF SOLAR REFLECTANCE = (*.55 MIN FOR 3-YR AGED SOLAR REFLECTANCE*) ROOF THERMAL EMITTANCE = (*.75 MIN FOR 3-YR AGED THERMAL EMITTANCE*)
PERCENT OF WINDOWS IN EACH WALL AREA	C402.4 *(Prescriptive Only)*	5.5.4.2.1, TABLE 5.5-2 *(Prescriptive Only)*	GROSS VERTICAL GLAZING / WALL AREA = % (*30% MAX*)
SKYLIGHT AREA	C402.4 *(Prescriptive Only)*	5.5.4.2.2, TABLE 5.5-2 *(Prescriptive Only)*	PERCENTAGE OF SKYLIGHT AREA = 0% (*5% MAX*)
DAYLIGHT ZONE OF SKYLIGHTS	C402.4.2 *(Prescriptive Only)*	5.5.4.2.3 *(Prescriptive Only)*	FLOOR AREA PERCENTAGE OF DAYLIGHT ZONE = 0% (*50% OF FLOOR AREA*)
MAXIMUM U-FACTOR AND SHGC FOR FENESTRATION	C402.4.3 *(Prescriptive Only)*	5.5.4.3, 5.5.4.4 *(Prescriptive Only)*	FENESTRATION U-FACTOR = FENESTRATION SHGC =
AIR LEAKAGE REQUIREMENTS	C402.5.1.2 *(Always Required)*	5.4.3.1 *(Always Required)*	SEE SHEET A-310 FOR WALL SECTIONS INDICATING CONTINUOUS FLUID APPLIED AIR BARRIER AT ALL EXTERIOR WALLS. THE AIR BARRIER IS SPECIFIED TO BE **WALL GAURDIAN FW-100-A**. PER THE MANUFACTURER'S WEBSITE, AIR LEAKAGE TEST RESULTS, IN ACCORDANCE WITH ASTM E 2178, SHOWED AIR LEAKAGE AT **0.0001 cfm/ft²**. THIS RESULT IS FAR BELOW THE MAXIMUM AMOUNT OF 0.004 cfm/ft² ALLOWED PER IECC 2015.

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REGISTERED ARCHITECT — MATTHEW B. NOVARRO — 25326 — STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: CODE ANALYSIS & SHEET INDEX

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: G-101

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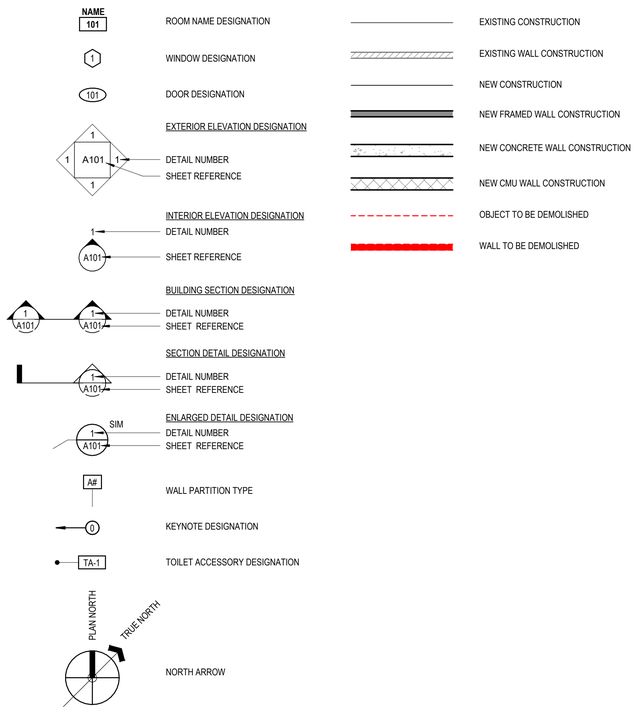
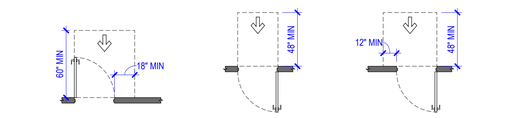
ABBREVIATIONS

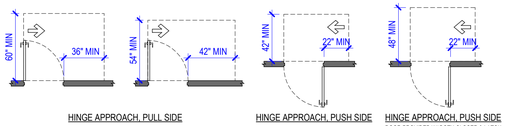
&	AND	MAS	MASONRY
@	AT	MAX	MAXIMUM
#	POUND, NUMBER	MDP	MAIN DISTRIBUTION PANEL
℄	CENTER LINE	MECH	MECHANICAL
		MED	MEDIUM
ACT	ACOUSTICAL CEILING	MFR	MANUFACTURER
ADDN.	ADDITION	MH	MANHOLE
ADDN'L	ADDITIONAL	MIN	MINIMUM
ADJ	ADJUSTABLE	MISC	MISCELLANEOUS
AFF	ABOVE FINISHED FLOORS	MO	MASONRY OPENING
AHU	AIR HANDLING UNIT	MTD	MOUNTED
ALT	ALTERNATE	MTL	METAL
ALUM	ALUMINUM		
APPROX	APPROXIMATE	N	NORTH
ARCH	ARCHITECT, ARCHITECTURE	NIC	NOT IN CONTRACT
		NO	NUMBER
B.O.	BOTTOM OF	NOM	NOMINAL
BCS	BABY CHANGING STATION	NTS	NOT TO SCALE
BD	BOARD		
BLDG	BUILDING	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CFM	CUBIC FEET PER MINUTE	O.H.	OPPOSITE HAND
CFT	CERAMIC FLOOR TILE	OPP	OPPOSITE
CJ	CONTROL JOINT	OZ	OUNCE
CFA	CLEAR FLOOR AREA		
CLLG	CEILING	P	PAINT
CLR	CLEAR	PCF	POUNDS PER CUBIC FOOT
CMU	CONCRETE MASONRY UNIT	PERF	PERFORATED
CO	CLEAN OUT	PL	PLATE
COL	COLUMN	PLAM	PLASTIC LAMINATE
CONC	CONCRETE	PLUM	PLUMBING
CONST CONT	CONSTRUCTION-CONTINUOUS	PLF	POUNDS PER LINEAR FOOT
CPT	CARPET	PLYWD	PLYWOOD
CPTB	CARPET BASE	PR	PAIR
CTB	CERAMIC TILE BASE	PSF	POUNDS PER SQUARE FOOT
CWT	CERAMIC WALL TILE	PSI	POUNDS PER SQUARE INCH
CU	CONDENSING UNIT	PT	POINT
CUH	CABINET UNIT HEATER	PTD	PAINTED
CW	COLD WATER	PVC	POLYVINYL CHLORIDE
		PVMT	PAVEMENT
DTL	DETAIL		
DIA	DIAMETER	QT	QUARRY TILE
DIM	DIMENSION	QTY	QUANTITY
DISP	DISPENSER		
DN	DOWN	R	RISER, RADIUS
DS	DOWNSPOUT	RB	RUBBER BASE BOARD
DW	DUMB WAITER	RCP	REFLECTED CEILING PLAN
DWG	DRAWING	RD	ROOF DRAIN
		RE:	REFER TO
E	EAST	REF	REFRIGERATOR
EA	EACH	REINF	REINFORCE (D)
EJ	EXPANSION JOINT	REQ	REQUIRED
ELEV	ELEVATION	REV	REVISIONS
ELEC	ELECTRICAL	RF	RESILIENT FLOORING
EP	ELECTRICAL PANEL	RH	RIGHT HAND
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RO	ROUGH OPENING
EWC	ELECTRIC WATER COOLER	ROW	RIGHT OF WAY
EWH	ELECTRIC WATER HEATER	RS	ROUGH SAWN
EXH	EXHAUST	RTU	ROOF TOP UNIT
EXP	EXPANSION		
EXT	EXTERIOR	S	SOUTH
		SAN	SANITARY
FA	FIRE ALARM	SAT	SUSPENDED ACOUSTICAL TILE
FACP	FIRE ALARM CONTROL PANEL	SC	SOLID CORE / OVERFLOW SCUPPER
FD	FLOOR DRAIN, FIRE DAMPER	SCHED	SCHEDULE
FE	FIRE EXTINGUISHER	SECT	SECTION
FEC	FIRE EXTINGUISHER CABINET	SERV	SERVICE
FF	FINISHED FLOOR	SF	SQUARE FEET
FG	FINISHED GRADE	SIM	SIMILAR
FIN	FINISH(ED)	SPEC	SPECIFICATIONS
FLR('G)	FLOOR(ING)	SQ	SQUARE
FO	FACE OF	SS	STAINLESS STEEL
FT	FOOT, FEET	ST	STORM
FTG	FOOTING	STD	STANDARD
FURN	FURNISH(ED)	STL	STEEL
FWC	FABRIC WALL COVERING	STRUCT	STRUCTURAL
		SUSP	SUSPENDED
GA	GAUGE	SWG	STANDARD WIRE GAUGE
GALV	GALVANIZED	SYM	SYMMETRICAL
GC	GENERAL CONTRACTOR		
GFI	GROUND FAULT INTERRUPTER	T	TREAD
GL	GLASS	T&B	TOP AND BOTTOM
GYP	GYPSUM	T&G	TONGUE AND GROOVE
		TEL	TELEPHONE
HB	HOSE BIBB	TEMP	TEMPERATURE, TEMPERED
HC	HOLLOW CORE	THK	THICK (NESS)
HWD	HARDWOOD	T.O.	TOP OF
HID	HIGH INTENSITY DISCHARGE	TYP	TYPICAL
HM	HOLLOW METAL	TV	TELEVISION
HORIZ	HORIZONTAL		
HVAC	HEAT, VENT, A/C	UG	UNDERGROUND
HW	HOT WATER	UH	UNIT HEATER
		UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
INCL	INCLUDING	VB	VINYL BASE BOARD
INT	INTERIOR	VCT	VINYL COMPOSITION TILE
INV	INVERT	VERT	VERTICAL
		VIF	VERIFY IN FIELD
JB	JUNCTION BOX	VWC	VINYL WALL COVERING
JST	JOIST		
		W	WEST
K	KIP (1,000 POUNDS)	W/	WITH
		W/O	WITHOUT
LAM	LAMINATED	WB	WOOD BASE BOARD
LAV	LAVATORY	WC	WATER CLOSET
LB	POUND	WD	WOOD
LF	LINEAR FEET	WH	WATER HEATER
LH	LEFT HAND	WP	WATERPROOF, WORK POINT
LL	LIVE LOAD	WT	WEIGHT
LLH	LONG LEG HORIZONTAL	WWF	WELDED WIRE FABRIC
LLV	LONG LEG VERTICAL		
LP	LIGHTNING PANEL	YD	YARD
LTWT	LIGHTWEIGHT		

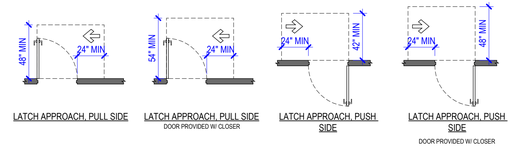
SYMBOLS



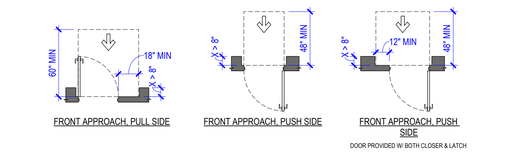
TAS DOORS







MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

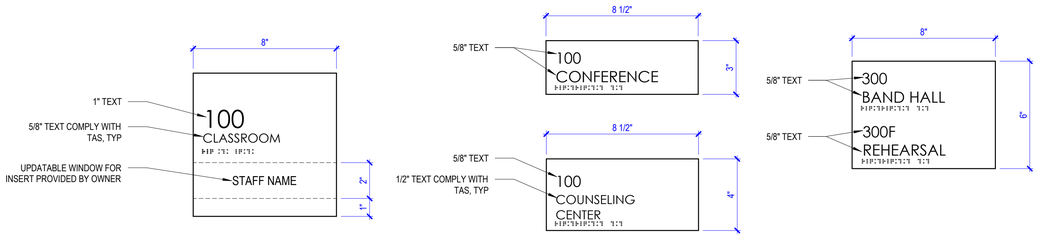


MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

GENERAL NOTES

1. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS TO BE REPAIRED PRIOR TO BIDDING, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
2. ALL NOTES REFERENCE NEW WORK UNLESS NOTED AS EXISTING.
3. INSTALL SOUND ATTENUATION BATTS IN ALL PARTITIONS UNLESS NOTED OTHERWISE.
4. PATCH ALL SURFACES AND AREAS AFFECTED BY DEMOLITION AND PREPARE FOR NEW CONSTRUCTION.
5. THE EXTENT OF DEMOLITION WORK IS SHOWN ON THE DRAWINGS. IT IS NOT POSSIBLE TO SHOW REQUIRED DEMOLITION, REMODELING AND PATCHING IN EVERY DETAIL. THE CONTRACTOR SHALL VISIT THE FACILITY TO DETERMINE THE EXTENT OF DEMOLITION AND REMODELING WORK, AND TO FAMILIARIZE HIMSELF WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ADDITIONAL WORK REQUIRED AS A RESULT OF THE WORK INDICATED HEREIN OR FOR PATCHING REQUIRED AS A RESULT OF NEW WORK, REMODELING OR DEMOLITION.
6. AREAS OF CONSTRUCTION SHALL BE SEALED OFF FROM OCCUPIED AREAS BY A DUST BARRIER OF FIRE-RETARDANT PLASTIC SHEETING. TAPE TIGHTLY AROUND PERIMETER AND AT INTERIOR JOINTS. DAMAGE TO SENSITIVE EQUIPMENT CAUSED BY CONSTRUCTION DUST SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
7. UNLESS SPECIFICALLY DESIGNATED FOR SALVAGE, DEMOLITION INCLUDES REMOVAL AND DISPOSAL OF DEMOLISHED MATERIALS. CONTRACTOR SHALL PROVIDE SUITABLE MEANS FOR DISPOSAL OF DEMOLISHED MATERIALS AND CONSTRUCTION DEBRIS.
8. ITEMS INDICATED FOR SALVAGE BY OWNER SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO OWNER'S DESIGNATED STORAGE AREA.
9. REMOVE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION AND NEW CONSTRUCTION OPERATIONS.
10. ALL MATERIALS NOT DESIGNATED FOR SALVAGE BY OWNER SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
11. REPAIR, AT NO COST TO THE OWNER, DAMAGE CAUSED TO ADJACENT AREAS, MATERIALS AND EQUIPMENT BY DEMOLITION AND NEW CONSTRUCTION OPERATIONS.
12. WHERE PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, PROPERLY TERMINATE ALL SUPPLY, WASTE AND VENT LINES BELOW SLAB AND/OR ABOVE FINISHED CEILING AS APPROPRIATE. WATER SUPPLY LINES SHALL BE REMOVED BACK TO NEAREST LIVE BRANCH LINE. CLOSE VENT PIPES THROUGH ROOF.
13. WHERE ELECTRICAL DEVICES ARE SHOWN TO BE REMOVED, PROPERLY TERMINATE ALL WIRING.
14. ALL WALL CEILING AND FLOOR CONSTRUCTION WHICH IS AFFECTED BY MEP DEMOLITION IS TO BE PATCHED AND PREPARED FOR NEW CONSTRUCTION.
15. THE GENERAL AND SUBCONTRACTOR(S) MUST COMPLY WITH ALL RULES AND REGULATIONS OF AGENCIES HAVING JURISDICTION AND SHALL CONFORM TO ALL CITY, STATE, AND FEDERAL CONSTRUCTION SAFETY AND SANITARY LAWS, CODES, STATUTES, AND ORDINANCES.
16. ALL CONDENSATE LINES AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM STRUCTURE SIDEWALL.
17. VERIFY W/ OWNER EXACT SIZE OF ALL EQUIPMENT FURNISHED BY OWNER FOR PROPER FIT W/ CONTRACTOR SUPPLIED MILLWORK & CASEWORK.
18. NEW MASONRY MUST MATCH HISTORIC MASONRY IN MATERIAL, COLOR, TOOLING, PROFILE, & PLACEMENT. MORTAR MUST MATCH THE HISTORIC CONDITION IN COLOR, DIMENSION, AND PROFILE BASED ON MORTAR ANALYSIS.
19. CLEANING SHOIULD BE DONE USING GENTLEST MEANS POSSIBLE. GENERAL CONTRACTOR TO PROVIDE MOCK-UPS TO ENSURE STANDARDS FOR BOTH EXISTING AND NEW MATERIALS. WATERPROOF COATINGS ABOVE GRADE SHALL NOT BE APPLIED TO THE FACE OF MASONRY WALLS.
20. ALL WOOD SPECIES TO BE SOUTHERN YELLOW PINE U.N.O. SUBSTITUTIONS TO BE PERMITTED ONLY AFTER WOOD ANALYSIS OF EXISTING OR SURVIVING CONDITIONS AND SUBJECT TO REVIEW AND APPROVAL OF THE ARCHITECT.
21. ALL PLASTER WALLS TO RECEIVE VAPOUR PERMEABLE COATINGS
22. THE GENERAL CONTRACTOR SHALL COORDINATE ALL LEAD & ASBESTOS ABATEMENT WORK AS DETAILED IN THE SUPPLIED ENVIRONMENTAL REPORT BY CLEAN ENVIRONMENTS,INC., PROJECT NO. 18286 AND SECTIONS 028200 & 028333.13 OF THE PROJECT SPECIFICATIONS.
23. CONTRACTOR TO PROVIDE ON-SITE MOCK UP OF PROPOSED MATERIALS TO MATCH EXISTING.
24. WOOD SURFACES IDENTIFIED FOR REMOVAL OF PAINT SHALL BE BROUGHT DOWN TO BARE WOOD BY THE GENTLEST MEANS POSSIBLE.
25. DAMAGED ELEMENTS NOTED WITHIN KEYNOTES ARE BASED UPON VISUAL OBSERVATIONS AT THE TIME OF SURVEY. THE CONTRACTOR IS TO VERIFY ANY ADDITIONAL SUBSEQUENT DAMAGE THAT MAY HAVE OCCURED, INCLUDING COMPONENTS THAT ARE ROTTED, BROKEN, SPLIT, OR MISSING, AND SHALL BE REPLACED IN-KIND.

ROOM SIGNAGE



NOTES:

THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS MUST COMPLY WITH TEXAS ACCESSIBILITY STANDARDS (TAS) FOR SIGN DESIGN, MOUNTING HEIGHTS AND LOCATIONS.

ARCHITECT TO COORDINATE WITH OWNER ON FINAL NAMES AND NUMBERS FOR EACH ROOM.

1.SIGN TO BE MOUNTED ON EXTERIOR WALL.
2.SIGN TO BE MOUNTED ON WINDOW. PROVIDE A BLANK BACK ON OTHER SIDE OF WINDOW.

BASED ON ASI MODULEX ARCHITECTURAL SIGNAGE SOLUTIONS
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"INTOUCH," ADA READY 1/8" THICK PHOTOPOLYMER SIGN FACE W/ 2ND SURFACE PAINT. FONT STYLE TO BE "AVANT GARDE". BACKGROUND COLOR TO BE DETERMINED AT A LATER DATE. RAISED COPY TO BE WHITE.

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REGISTERED ARCHITECT
MARK B. NOVARRO
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: GENERAL NOTES, ABBREVIATIONS & SYMBOLS

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: G-102

3/6/2026 3:25:11 PM

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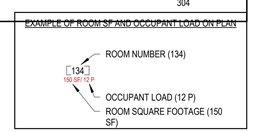
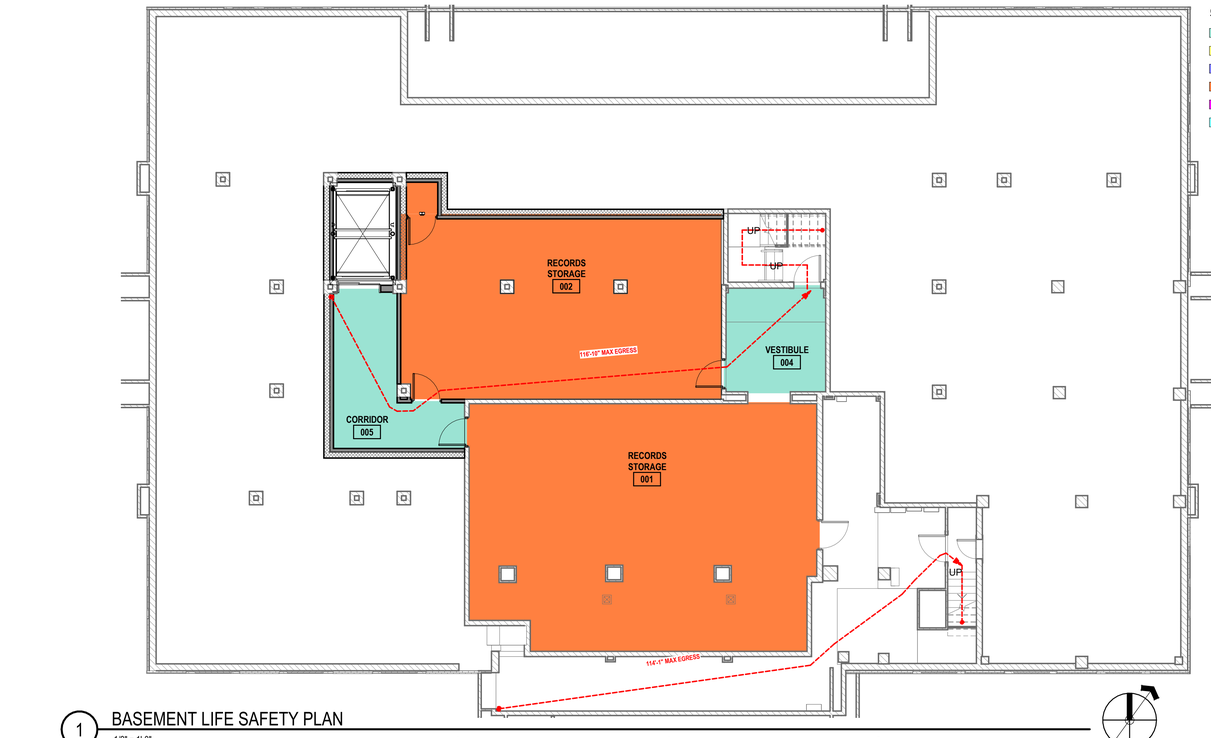
OCCUPANCY ANALYSIS

LEVEL	ROOM NUMBER	ROOM NAME	NET ROOM AREA	OCCUPANCY TYPE	OCCUPANT RATIO	OCCUPANCY COUNT
BASEMENT						
BASEMENT	001	RECORDS STORAGE	1031 SF	Accessory Storage Area / Mechanical	300	4
BASEMENT	002	RECORDS STORAGE	712 SF	Accessory Storage Area / Mechanical	300	3
BASEMENT	004	VESTIBULE	129 SF	(none)		0
BASEMENT	005	CORRIDOR	162 SF	(none)		0
BASEMENT	006	HVAC	13 SF	Accessory Storage Area / Mechanical	300	1
			2047 SF			
FIRST FLOOR						
FIRST FLOOR	100-A	CORRIDOR	2132 SF	(none)		0
FIRST FLOOR	100-B	MENS R/R	122 SF	(none)		0
FIRST FLOOR	100-C	WOMENS R/R	146 SF	(none)		0
FIRST FLOOR	100-D	STOR.	17 SF	Accessory Storage Area / Mechanical	300	1
FIRST FLOOR	100-E	STOR.	21 SF	Accessory Storage Area / Mechanical	300	1
FIRST FLOOR	101	COMMISSIONERS' COURT	575 SF	Assembly, Fixed Seating (See Section 1004.6)		37
FIRST FLOOR	102-A	SECRETARY'S OFFICE	106 SF	Business	150	1
FIRST FLOOR	102-B	STOR.	12 SF	Accessory Storage Area / Mechanical	300	1
FIRST FLOOR	102-C	STOR.	12 SF	Accessory Storage Area / Mechanical	300	1
FIRST FLOOR	102-D	COUNTY JUDGE	189 SF	Business	150	2
FIRST FLOOR	102-E	STOR.	8 SF	Accessory Storage Area / Mechanical	300	1
FIRST FLOOR	103	OFFICE	346 SF	Business	150	3
FIRST FLOOR	104-A	VESTIBULE	88 SF	(none)		0
FIRST FLOOR	104-B	BREAK ROOM	164 SF	Kitchens, Commercial	200	1
FIRST FLOOR	104-C	CLERK RECORDS	99 SF	Accessory Storage Area / Mechanical	300	1
FIRST FLOOR	104-D	STAIR	164 SF	(none)		0
FIRST FLOOR	105-A	COUNTY CLERKS OFFICE	782 SF	Business	150	6
FIRST FLOOR	105-B	RECORDS STORAGE	290 SF	Accessory Storage Area / Mechanical	300	1
FIRST FLOOR	105-C	RECORDS STORAGE	131 SF	Accessory Storage Area / Mechanical	300	1
FIRST FLOOR	106	COURT ATTORNEY	227 SF	Business	150	2
FIRST FLOOR	107	COURT ATTORNEY	230 SF	Business	150	2
FIRST FLOOR	107-B	ELEVATOR	77 SF	(none)		0
FIRST FLOOR	108-A	ADULT PROBATION	210 SF	Business	150	2
FIRST FLOOR	108-B	OFFICE	192 SF	Business	150	2
FIRST FLOOR	108-C	OFFICE	133 SF	Business	150	1
FIRST FLOOR	108-D	VEST.	101 SF	Business	150	1
FIRST FLOOR	108-E	STOR.	16 SF	Accessory Storage Area / Mechanical	300	1
FIRST FLOOR	108-F	I.T.	21 SF	Accessory Storage Area / Mechanical	300	1
			6611 SF			
SECOND FLOOR						
SECOND FLOOR	200-A	CORRIDOR	311 SF	(none)		0
SECOND FLOOR	200-B	MENS R/R	139 SF	(none)		0
SECOND FLOOR	200-C	WOMENS R/R	139 SF	(none)		0
SECOND FLOOR	200-D	JANITORS CLOSET	38 SF	Accessory Storage Area / Mechanical	300	1
SECOND FLOOR	200-E	STORAGE	99 SF	Accessory Storage Area / Mechanical	300	1
SECOND FLOOR	200-F	MECH.	70 SF	Accessory Storage Area / Mechanical	300	1
SECOND FLOOR	200-G	INMATE STAIR	95 SF	(none)		0
SECOND FLOOR	200-H	WITNESS ROOM	110 SF	Assembly, Un-concetrated (tables and chairs)	15	8
SECOND FLOOR	200-I	MECH.	29 SF	Accessory Storage Area / Mechanical	300	1
SECOND FLOOR	200-J	CORRIDOR	387 SF	(none)		0
SECOND FLOOR	200-K	CORRIDOR	450 SF	(none)		0
SECOND FLOOR	201-A	OFFICE	252 SF	Business	150	2
SECOND FLOOR	201-B	MECH.	14 SF	Accessory Storage Area / Mechanical	300	1
SECOND FLOOR	201-C	STOR.	184 SF	Accessory Storage Area / Mechanical	300	1
SECOND FLOOR	202-A	DISTRICT CLERKS OFFICE	506 SF	Business	150	4
SECOND FLOOR	202-B	OFFICE	127 SF	Business	150	1
SECOND FLOOR	202-C	STOR.	25 SF	Accessory Storage Area / Mechanical	300	1
SECOND FLOOR	202-D	STOR.	9 SF	Accessory Storage Area / Mechanical	300	1
SECOND FLOOR	202-E	ELEV.	84 SF	(none)	0	0
SECOND FLOOR	203	FILE STORAGE	405 SF	Accessory Storage Area / Mechanical	300	2
SECOND FLOOR	204-A	JURY DELIBERATION ROOM	399 SF	Assembly, Un-concetrated (tables and chairs)	15	27
SECOND FLOOR	204-B	R/R	54 SF	(none)		0
SECOND FLOOR	205-A	CONFERENCE ROOM	163 SF	Assembly, Un-concetrated (tables and chairs)	15	11
SECOND FLOOR	205-B	MECH.	19 SF	Accessory Storage Area / Mechanical	300	1
SECOND FLOOR	206-A	DISTRICT COURTROOM	1874 SF	Assembly, Fixed Seating (See Section 1004.6)		128
SECOND FLOOR	206-B	CONFERENCE ROOM	101 SF	Assembly, Un-concetrated (tables and chairs)	15	7
SECOND FLOOR	206-C	WITNESS ROOM	75 SF	Assembly, Un-concetrated (tables and chairs)	15	5
			6157 SF			
THIRD FLOOR						
THIRD FLOOR	300-A	BREAK ROOM	541 SF	Kitchens, Commercial	200	3
THIRD FLOOR	300-B	UNISEX R/R	34 SF	(none)		0
THIRD FLOOR	300-C	ADA UNISEX R/R	65 SF	(none)		0
THIRD FLOOR	301	AUDITORS OFFICE	175 SF	Business	150	2
THIRD FLOOR	301-B	MECH.	20 SF	Accessory Storage Area / Mechanical	300	1
THIRD FLOOR	302	AUDITORS OFFICE	376 SF	Business	150	3
THIRD FLOOR	303-A	TREASURERS OFFICE	210 SF	Business	150	2
THIRD FLOOR	303-B	TREASURERS OFFICE	182 SF	Business	150	2
THIRD FLOOR	303-C	ELEV.	95 SF	(none)	0	0
THIRD FLOOR	304-A	AUDITORS PURCHASING OFFICE	147 SF	Business	150	1
THIRD FLOOR	304-B	STORAGE	34 SF	Accessory Storage Area / Mechanical	300	1
THIRD FLOOR	304-C	MECH.	25 SF	Accessory Storage Area / Mechanical	300	1
THIRD FLOOR	305	INMATES STAIR	95 SF	(none)		0
THIRD FLOOR	306	ROOF VESTIBULE	38 SF	(none)		0
THIRD FLOOR	310-A	RECORDS STORAGE	719 SF	Accessory Storage Area / Mechanical	300	3
THIRD FLOOR	311	CORRIDOR	466 SF	(none)		0
THIRD FLOOR	312	STORAGE	514 SF	Accessory Storage Area / Mechanical	300	2
THIRD FLOOR	313	MECH.	69 SF	Accessory Storage Area / Mechanical	300	1
			3805 SF			304
Grand total: 78			18620 SF			

~~EXAMPLE OF ROOM SF AND OCCUPANT LOAD ON PLAN~~





1 BASEMENT LIFE SAFETY PLAN

1/8" = 1'-0"

2 FIRST FLOOR LIFE SAFETY PLAN

1/8" = 1'-0"

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REGISTERED ARCHITECT JAMES B. NAVARRO 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: OCCUPANCY ANALYSIS & LIFE SAFETY PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: G-103

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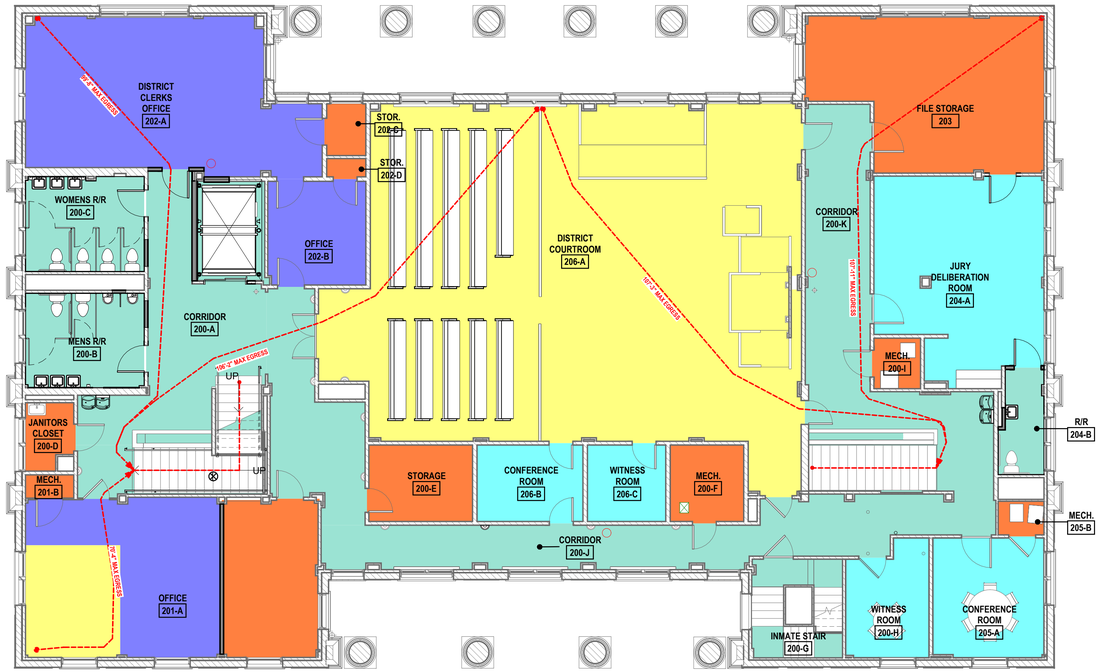
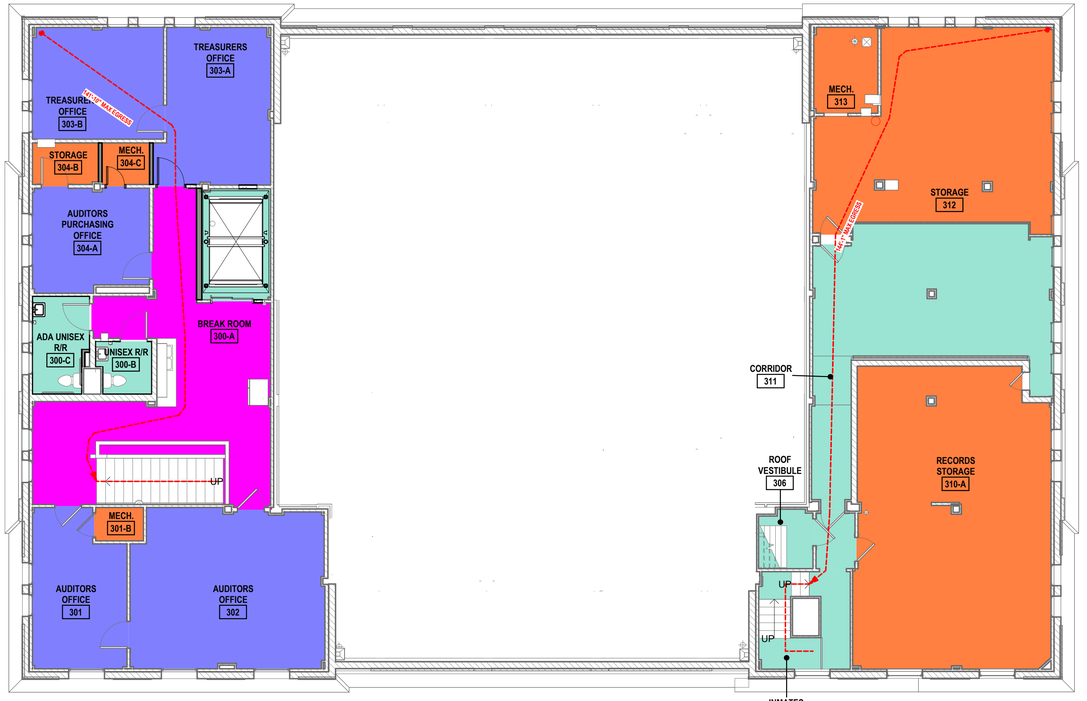


1 SECOND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



2 THIRD FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

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03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: LIFE SAFETY PLAN

PROJECT NO: 2308 A1

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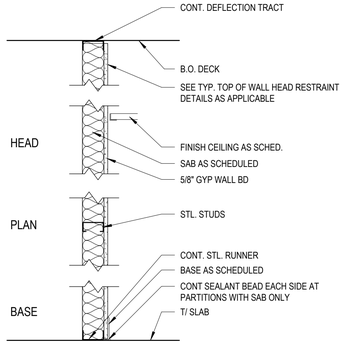
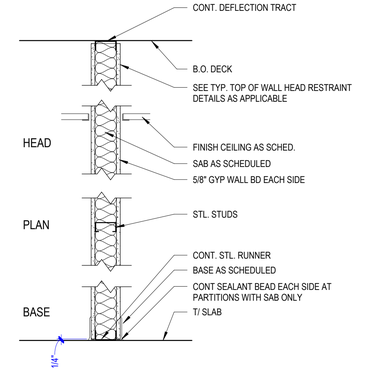
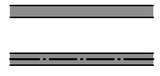


C

TYPE	STUD SIZE	SAB	STC	WALL THK	MAX HT 5 PSF
C2	2-1/2"	-	-	3-1/8"	10'-9"
C3	3-5/8"	3-1/2"	-	4-1/4"	13'-6"
C6	6"	6"	-	6-5/8"	15'-0"



A



TYPE	STUD SIZE	SAB	STC	WALL THK	MAX HT 5 PSF
A3	3-5/8"	3-1/2"	-	4-7/8"	13'-6"
A8	8"	6"	-	9-1/4"	14'6"

GENERAL NOTES

1. ALL WALL TYPES TO BE A3S UNLESS NOTED OTHERWISE.
2. FOR HEIGHTS OF WALL SEE BLD.'G SECTIONS OR ELEVATIONS.
3. EVERY WALL SHOWN ON PLAN SHALL BE ONE OF THE WALL TYPES SHOWN WHETHER KEYED ON THE PLAN OR NOT. IF WALL DOES NOT HAVE KEY, PROVIDE WALL TYPE TO MATCH ADJACENT OR NEAREST KEY.
4. SEE ROOM FINISH SCHEDULE & RCP FOR FINISHES AND CEILING HEIGHTS.
5. FIRE TAPE OR SEAL ALL PENETRATIONS.
6. ALL WALLS THAT ARE PERPENDICULAR TO ROOF DECK SHOULD BE SEALED TIGHT TO UNDERSIDE OF DECK W/ PACKED INSULATION AND FIRE SAFING. COPE SHEETROCK AROUND CONCRETE PAN.
7. ALL SOUND WALLS TO RECEIVE SEALANT AROUND CRACKS & GAPS OF EDGES @ FLOOR, CEILING AND JUNCTION BOXES.
8. PROVIDE BRACE AT END OF ALL CMU WALLS, EACH SIDE OF CONTROL JOINTS AND AT 8'-0" TYPICAL. IF AN INTERSECTING WALL IS LAYED AT THE SAME TIME, THE WALL MAY BE CONSIDERED A BRACE.
9. ALLOW FOR VERTICAL DEFLECTION OF THE STRUCTURE.
10. ALL METAL STUD ROOF DECK CONNECTIONS TO HAVE SLIP JOINT WITH DEEP LEG METAL STUD TRACK.
11. INTERIOR PARTITIONS ARE TO BE ABLE TO RESIST THE LOADS TO WHICH THEY SUBJECTED, BUT NOT LESS THAN A 5 PSF HORIZONTAL LOAD.
12. PROVIDE DOUBLE 20 GA STUDS MIN. AT ALL DOOR JAMBS.
13. PROVIDE GYP. BOARD CONTROL JOINTS AT 30'-0" O.C. MIN. UNLESS NOTED OTHERWISE.
14. CONTRACTOR TO SPECIFY MANUFACTURER OF METAL STUD SYSTEM.
15. ALL GYP. BOARD IS 5/8" TYPE "X" U.N.O.
16. INSTALLATION OF METAL STUD AND GYPSUM BOARD PARTITIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS.
17. ALL SURFACES IN BATHROOMS AND OTHER "WET" AREAS ARE TO BE BACKED WATER RESISTANT GYPSUM BOARD.
18. PROVIDE METAL CORNER BEAD, TRIM AND CASING FOR ALL EDGES AND CORNERS OF GYPSUM BOARD SURFACES ON PAINTED WALLS.
19. MATCH EXISTING WALL PARTION CONSTRUCTION WHEN INFILLING EXISTING OPENINGS. U.O.N.
20. IF ADJACENT WALL SURFACES ARE PLASTER; INFILL WALLS SHALL ALSO HAVE A SIMILAR NEW PLASTER AND TEXTURE FINISH.

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03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: WALL PARTITIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: G-105

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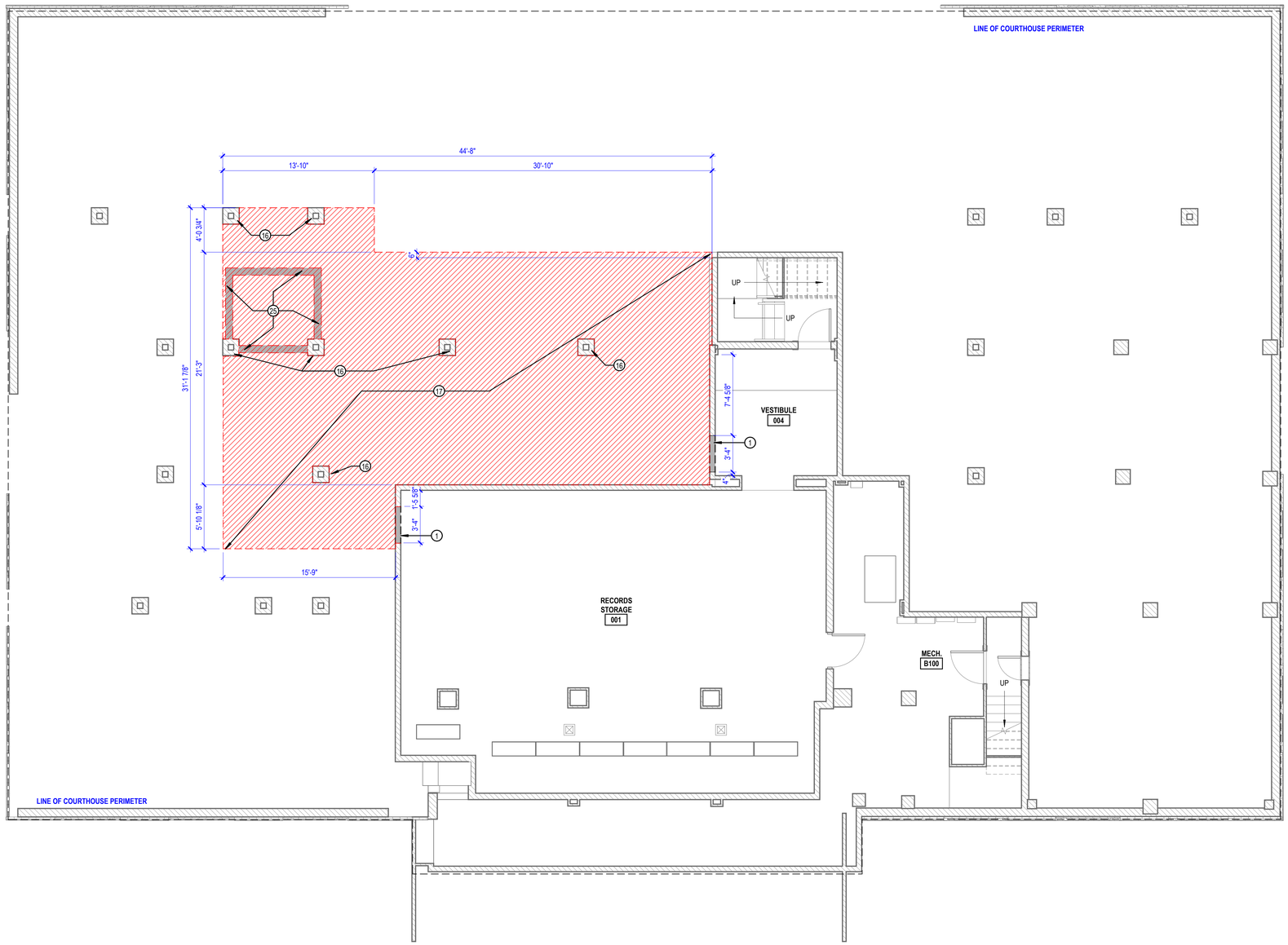

1 DEMOLITION BASEMENT PLAN
3/16" = 1'-0"

GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
B. ALL EXISTING BRICK MASONRY UNITS THAT ARE REMOVED SHALL BE PROTECTED AND PRESERVED FOR REUSE.
C. EXISTING APPLIANCES AND EQUIPMENT IDENTIFIED FOR REMOVAL SHALL BE RETURNED TO THE COUNTY FOR REUSE ELSEWHERE.
D. ALL WINDOWS, TRIM, AND DOORS, INTERIOR AND EXTERIOR, TO BE FULLY STRIPPED OF PREEXISTING PAINT OR STAIN.
E. CONTRACTOR TO PROVIDE TEMPORARY SHORING AS NEEDED FOR OPENINGS ONCE INFILL IS REMOVED AND FIELD VERIFY ANY EXISTING LINTELS.
F. ALL ITEMS ITEMS IN RED DASH TO BE ASSUMED FOR DEMO OR REMOVAL U.N.O.

KEYNOTES

1 DEMO EXISTING WALL FOR NEW OPENINGS AND DOORS PER SCHEDULE
2 DEMO EXISTING DOOR & FRAME
3 REMOVE DOOR & FRAME, PRESERVE FOR REUSE
4 DEMO EXISTING FIXTURES
5 REMOVE EXISTING STALLS, PRESERVE FOR REUSE
6 DEMO EXISTING ELEVATOR
7 DEMO EXISTING TREE
8 DEMO EXISTING SHED
9 DEMO EXISTING PAVING
10 DEMO EXISTING GYPSUM CEILING
11 DEMO EXISTING LIGHT FIXTURE
12 DEMO EXISTING DUCTS
13 DEMO EXISTING EQUIPMENT
14 DEMO EXISTING CASEWORK
15 DEMO EXISTING CARPET
16 EXISTING CONC. COLUMN TO BE PROTECTED & REMAIN, TYP.
17 APPROX. EXTENTS OF NEW SLAB FOR ENLARGED BASEMENT RE: STRUCT.
18 DEMO EXISTING HANDRAIL
19 DEMO PORTION OF WALL FOR FUTURE MAILBOX
20 DEMO EXIST. CEILING CLOUD & RELATED STRUCTURE
21 REMOVE FIXED FIXED CHAIRS & PROVIDE TO COUNTY. PATCH HOLES AS NECESSARY
22 DEMO PORTION OF CONCRETE DECK FOR ELEVATOR
23 REMOVE FIXED COURT ROOM FURNITURE & PROVIDE TO COUNTY. PATCH HOLES AS NECESSARY
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27 DEMO EXISTING PLASTER FINISH BETWEEN COLUMNS. REPOINT EXISITNG GROUT JOINTS THROUGHOUT WALL AREA. PREP FOR NEW PLASTER.

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REGISTERED ARCHITECT
MARK B. NEVAREZ
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION BASEMENT PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-100

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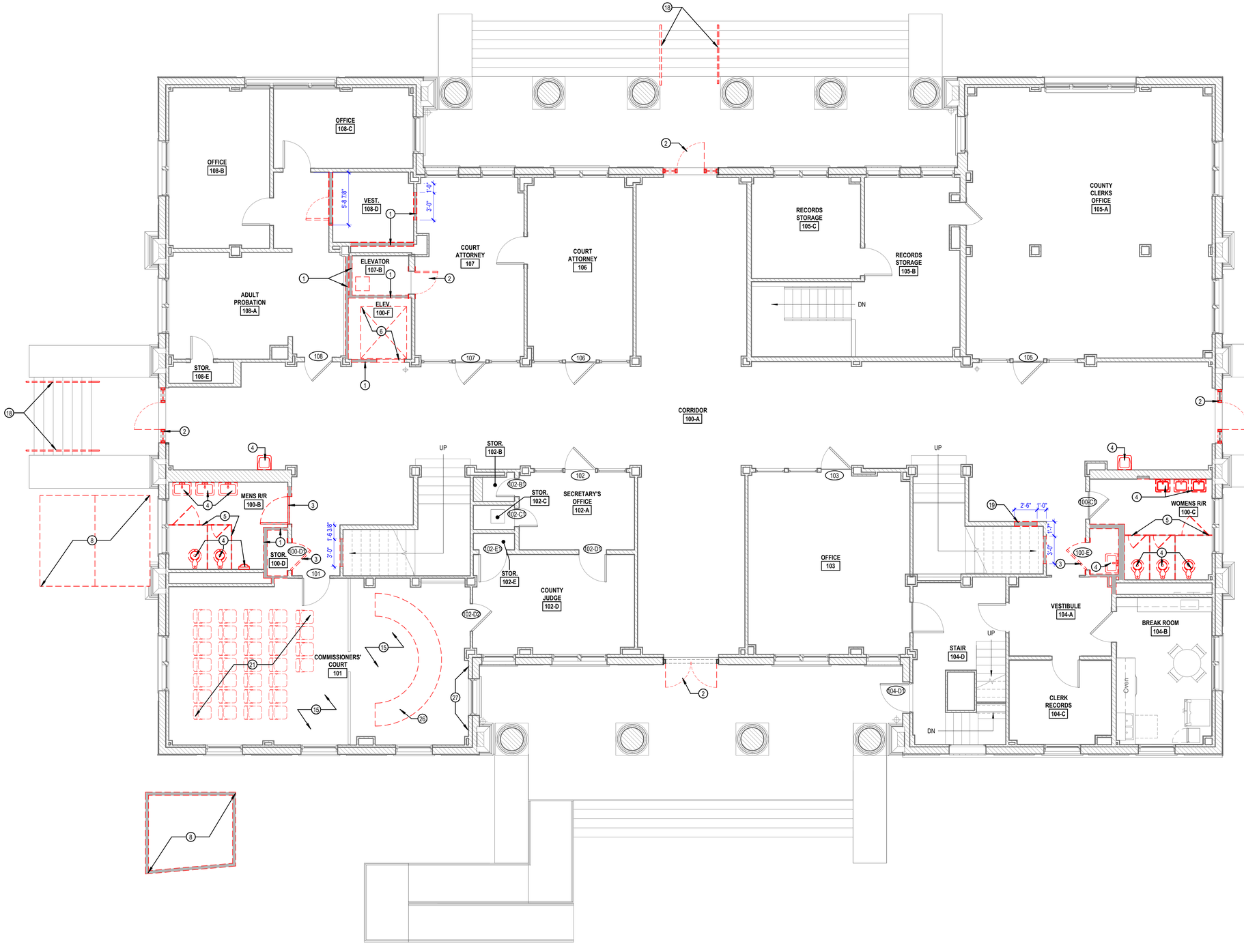

1 DEMOLITION FIRST FLOOR PLAN

3/16" = 1'-0"

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F. ALL ITEMS ITEMS IN RED DASH TO BE ASSUMED FOR DEMO OR REMOVAL U.N.O.

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REGISTERED ARCHITECT
MATTHEW B. HOLLAND
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION FIRST FLOOR PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-101

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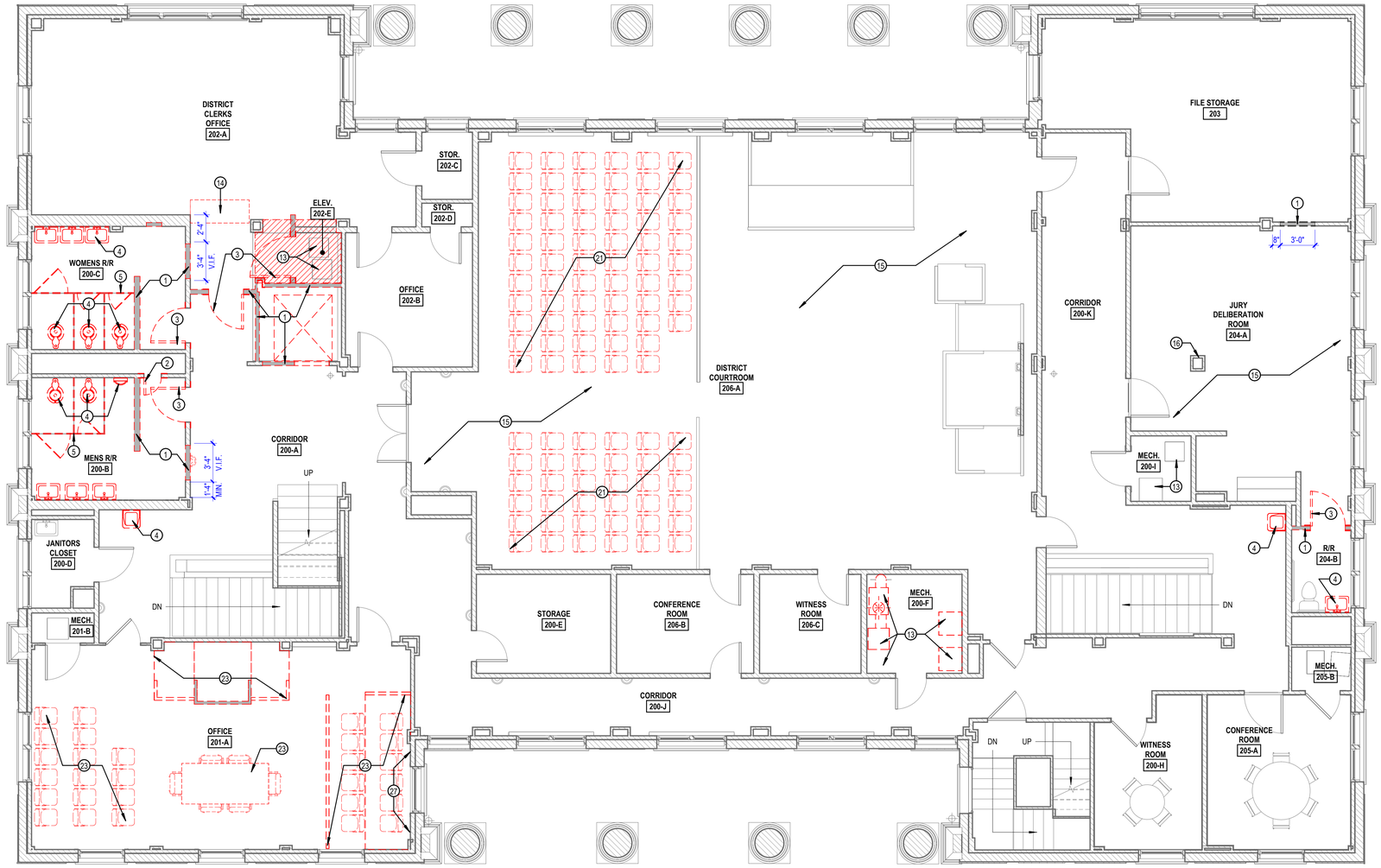

1 DEMOLITION SECOND FLOOR PLAN

3/16" = 1'-0"

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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION SECOND FLOOR PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-102

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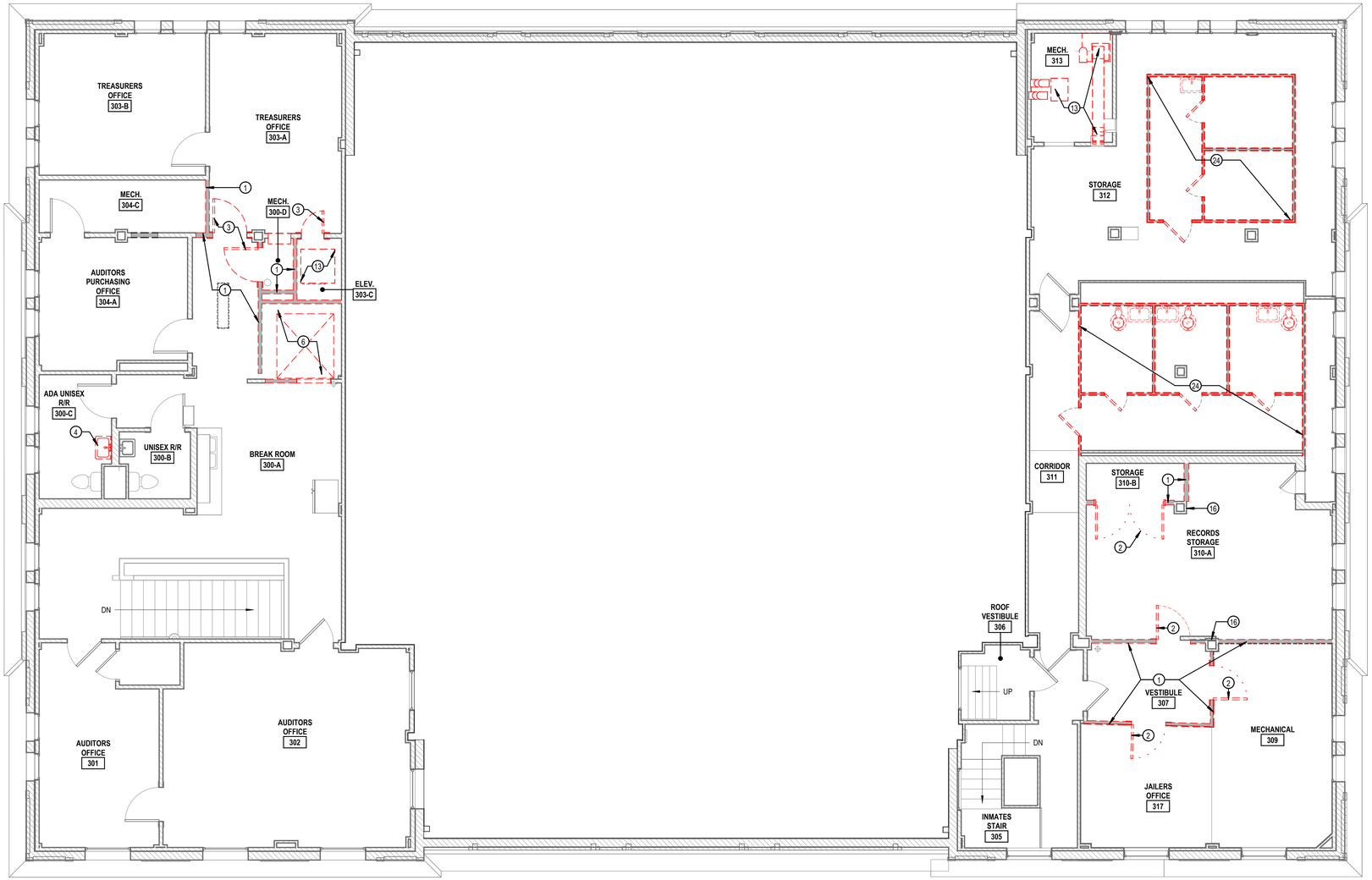

1 DEMOLITION THIRD FLOOR PLAN
3/16" = 1'-0"

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REGISTERED ARCHITECT MARK B. NEVAREZ 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION THIRD FLOOR PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-103

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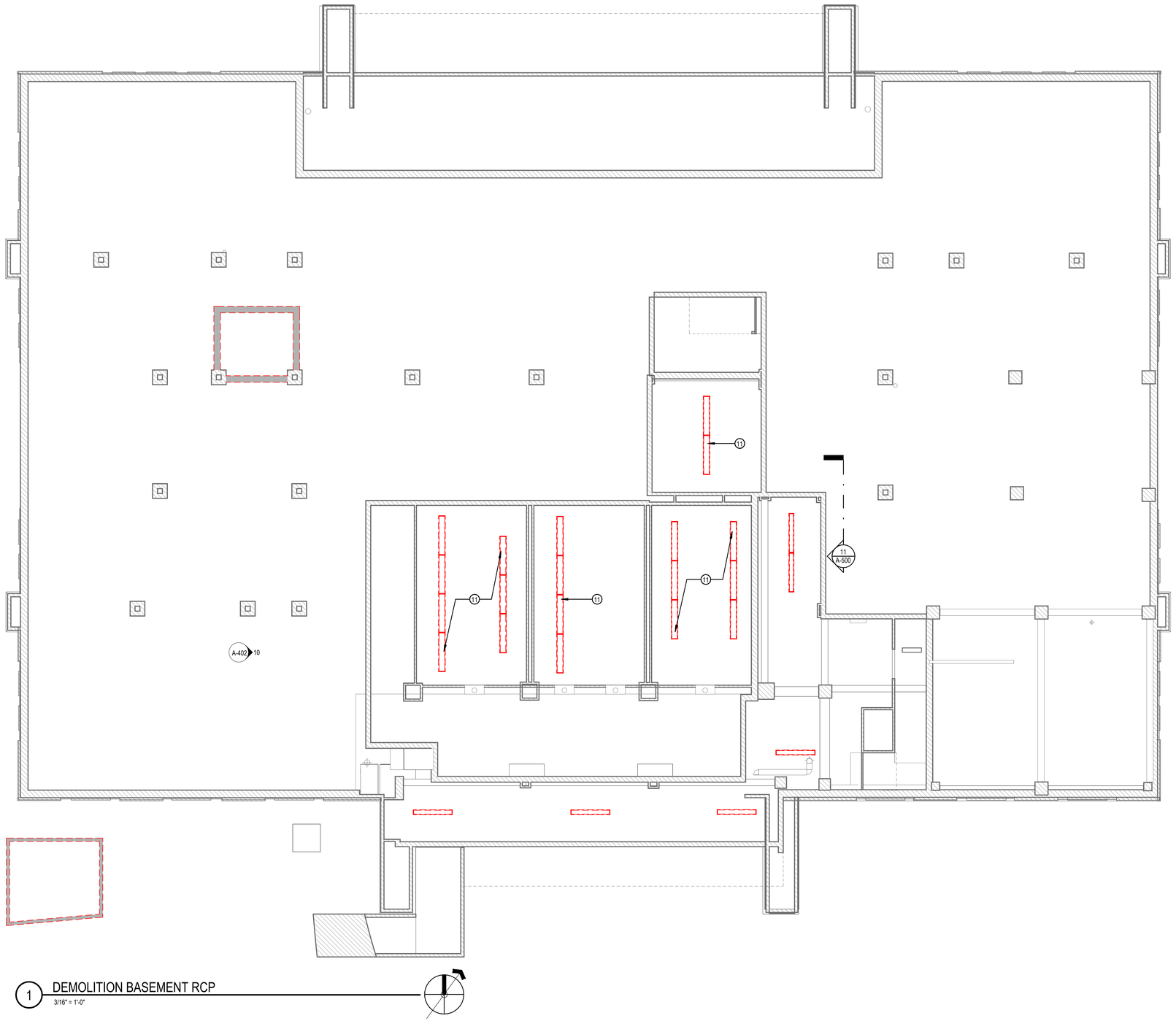

1 DEMOLITION BASEMENT RCP
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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION BASEMENT RCP PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-104

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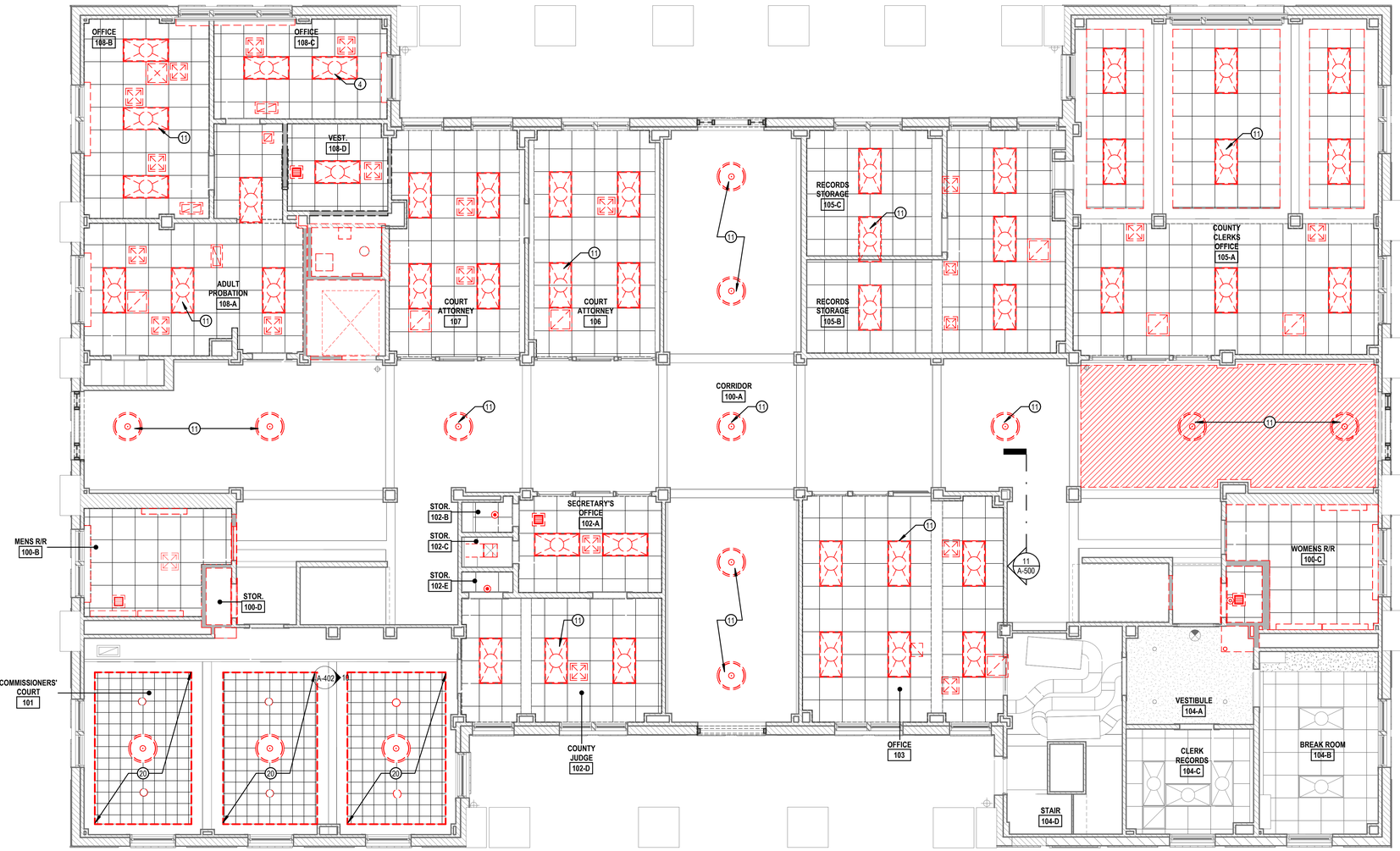

1 DEMOLITION FIRST FLOOR RCP
3/16" = 1'-0"

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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION FIRST FLOOR RCP PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-105

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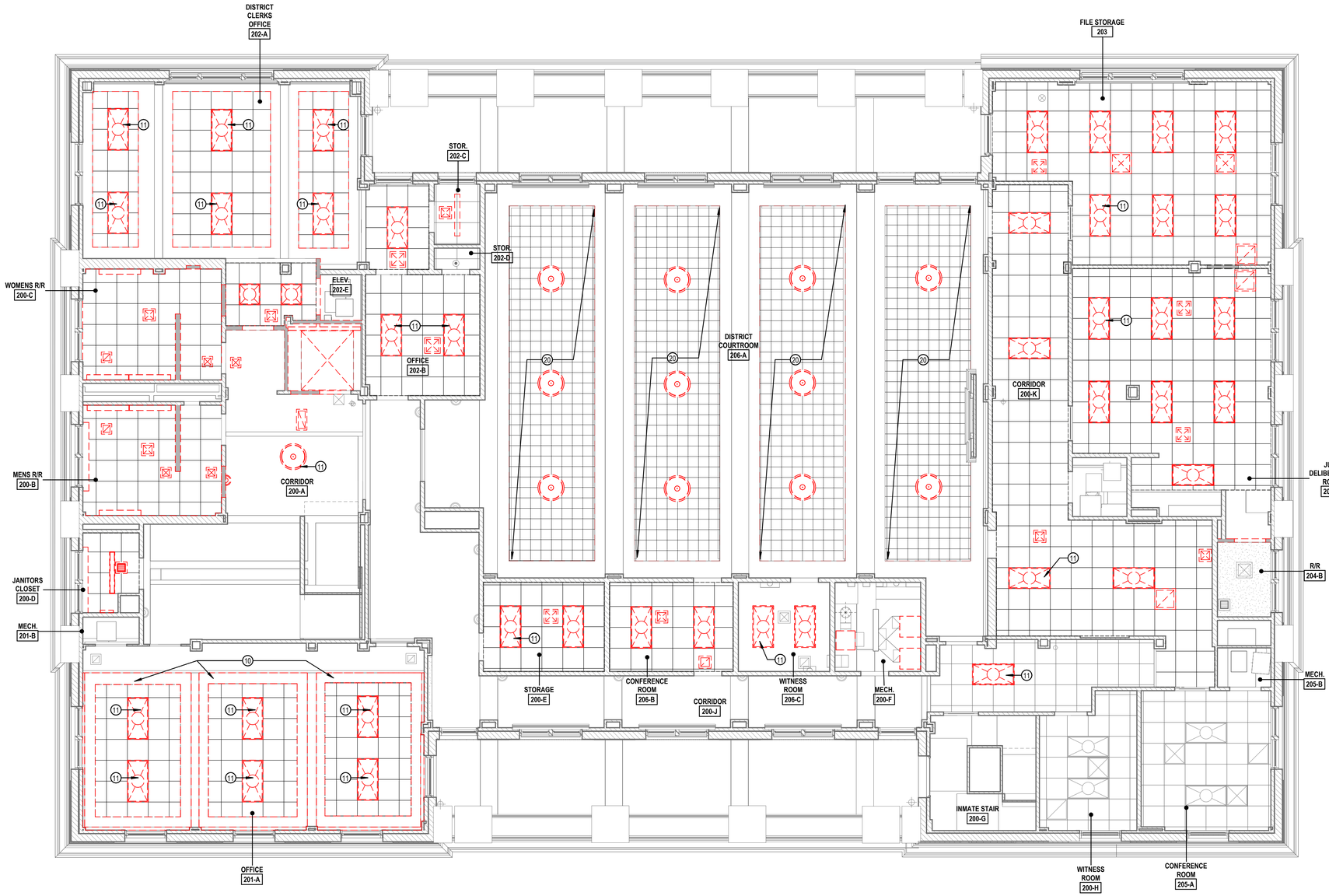

1 DEMOLITION SECOND FLOOR RCP
3/16" = 1'-0"

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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION SECOND FLOOR RCP PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-106

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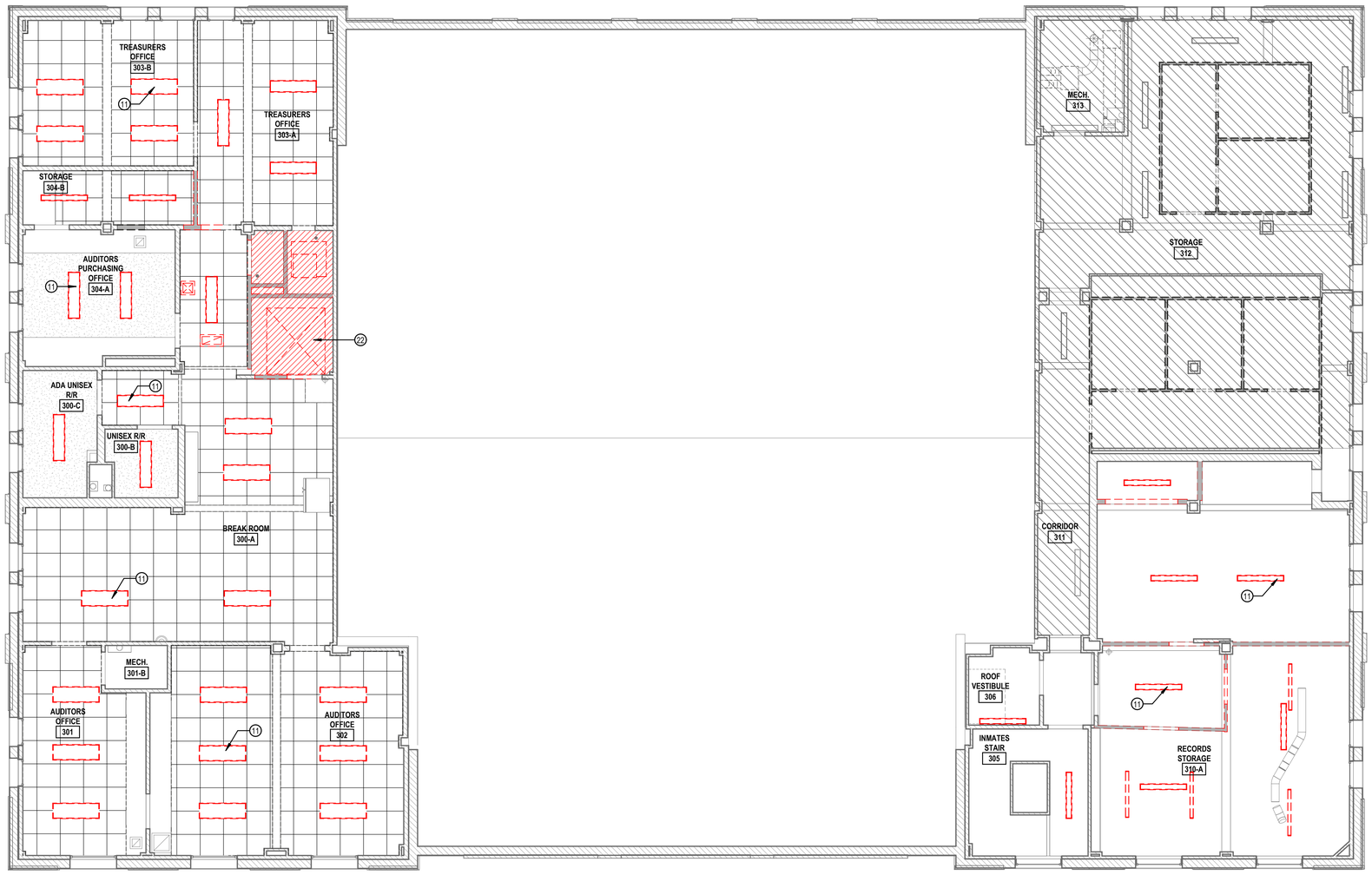

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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION THIRD FLOOR RCP PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-107

3/6/2026 3:25:47 PM

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GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.

B. ALL EXISTING BRICK MASONRY UNITS THAT ARE REMOVED SHALL BE PROTECTED AND PRESERVED FOR REUSE.

KEYNOTES

1 DEMO EXISTING WALL FOR NEW OPENINGS AND DOORS PER SCHEDULE
2 DEMO EXISTING DOOR & FRAME
3 REMOVE DOOR & FRAME, PRESERVE FOR REUSE
4 DEMO EXISTING FIXTURES
5 REMOVE EXISTING STALLS, PRESERVE FOR REUSE
6 DEMO EXISTING ELEVATOR
7 DEMO EXISTING TREE
8 DEMO EXISTING SHED
9 DEMO EXISTING PAVING
10 DEMO EXISTING GYPSUM CEILING
11 DEMO EXISTING LIGHT FIXTURE
12 DEMO EXISTING DUCTS
13 DEMO EXISTING EQUIPMENT
14 DEMO EXISTING CASEWORK
15 DEMO EXISTING CARPET
16 EXISTING CONC. COLUMN TO BE PROTECTED & REMAIN, TYP.
17 APPROX. EXTENTS OF NEW SLAB FOR ENLARGED BASEMENT RE: STRUCT.
18 DEMO EXISTING HANDRAIL
19 DEMO PORTION OF WALL FOR FUTURE MAILBOX
20 DEMO EXIST. CEILING CLOUD & RELATED STRUCTURE
21 REMOVE FIXED FIXED CHAIRS & PROVIDE TO COUNTY. PATCH HOLES AS NECESSARY
22 DEMO PORTION OF CONCRETE DECK FOR ELEVATOR
23 REMOVE FIXED COURT ROOM FURNITURE & PROVIDE TO COUNTY. PATCH HOLES AS NECESSARY
24 REMOVE JAIL CELLS AND FIXTURES, COORDINATE STORAGE WITH COUNTY, AND TERMINATE ALL ABANDONED PLUMBING
25 DEMO EXISTING WALLS, SHORE UP FLOOR ABOVE AS NEEDED
26 DEMO EXIST. FURNITURE
27 DEMO EXISTING PLASTER FINISH BETWEEN COLUMNS. REPOINT EXISTING GROUT JOINTS THROUGHOUT WALL AREA. PREP FOR NEW PLASTER.

1 DEMOLITION SOUTH ELEVATION
3/16" = 1'-0"

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REGISTERED ARCHITECT
MATTHEW B. NOVARRO
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION EXTERIOR ELEVATION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-200

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GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.

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KEYNOTES

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2 DEMO EXISTING DOOR & FRAME
3 REMOVE DOOR & FRAME, PRESERVE FOR REUSE
4 DEMO EXISTING FIXTURES
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11 DEMO EXISTING LIGHT FIXTURE
12 DEMO EXISTING DUCTS
13 DEMO EXISTING EQUIPMENT
14 DEMO EXISTING CASEWORK
15 DEMO EXISTING CARPET
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17 APPROX. EXTENTS OF NEW SLAB FOR ENLARGED BASEMENT RE: STRUCT.
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26 DEMO EXIST. FURNITURE
27 DEMO EXISTING PLASTER FINISH BETWEEN COLUMNS. REPOINT EXISTING GROUT JOINTS THROUGHOUT WALL AREA. PREP FOR NEW PLASTER.

1 DEMOLITION NORTH ELEVATION
3/16" = 1'-0"

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REGISTERED ARCHITECT
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03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION EXTERIOR ELEVATION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-201

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GENERAL NOTES

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7 DEMO EXISTING TREE
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9 DEMO EXISTING PAVING
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11 DEMO EXISTING LIGHT FIXTURE
12 DEMO EXISTING DUCTS
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27 DEMO EXISTING PLASTER FINISH BETWEEN COLUMNS. REPOINT EXISTING GROUT JOINTS THROUGHOUT WALL AREA. PREP FOR NEW PLASTER.

1 DEMOLITION WEST ELEVATION
3/16" = 1'-0"

2 DEMOLITION EAST ELEVATION
3/16" = 1'-0"

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REGISTERED ARCHITECT
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STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DEMOLITION EXTERIOR ELEVATION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AD-202

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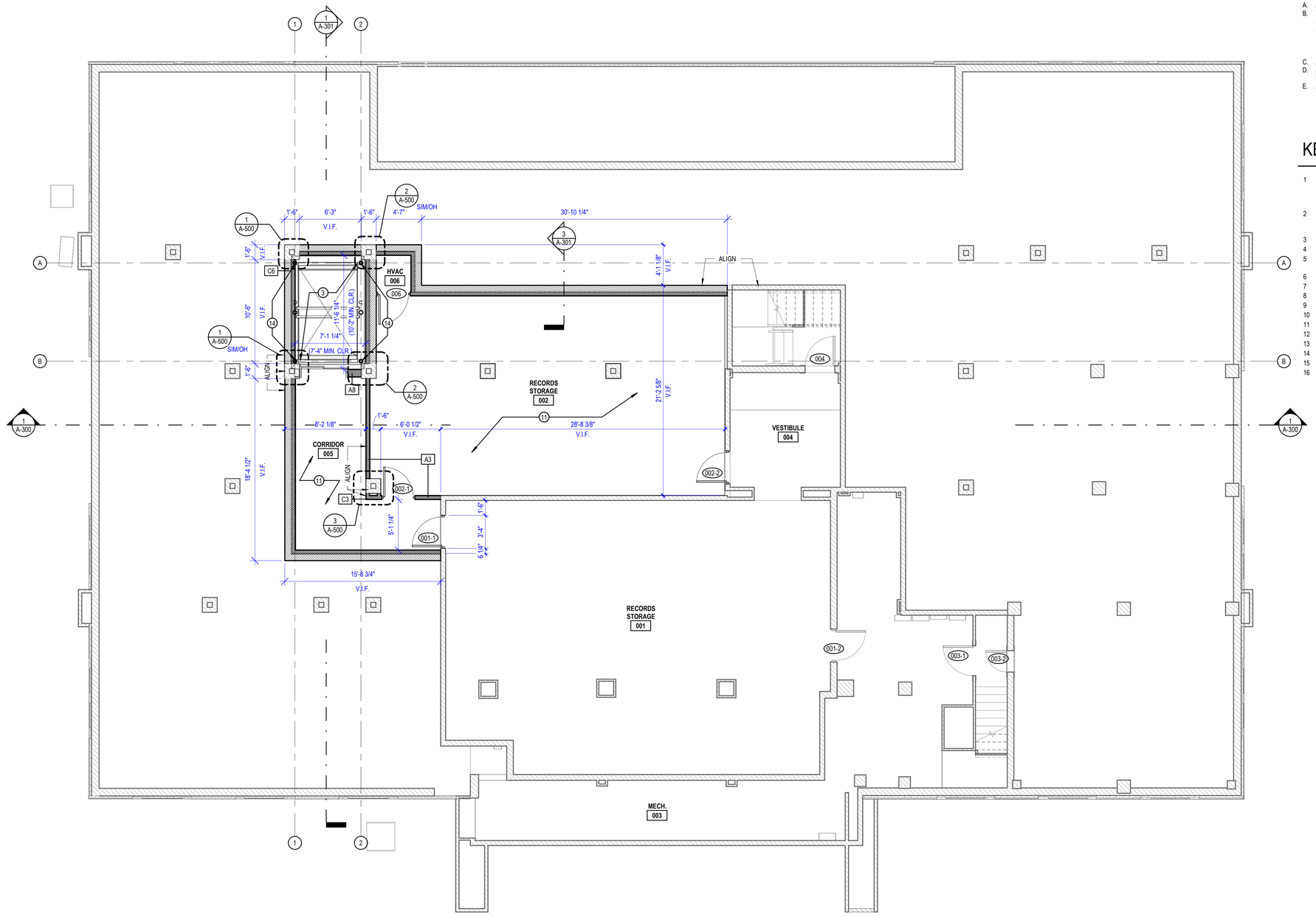

1 BASEMENT FLOOR PLAN - NEW CONSTRUCTION
3/16" = 1'-0"

GENERAL NOTES

A. ARCHITECTURAL ELEVATION - 100'-0".
B. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
C. ALL FURNITURE SHOWN IS REFERENCE ONLY OR BY OWNER.
D. ALL NEW WINDOWS TO RECEIVE HORIZONTAL LOUVER BLINDS TO MATCH EXISTING.
E. ALL DOORS TO BE 4" FROM WALL U.N.O.

KEYNOTES

1 STRIP, REPAIR, THEN REFINISH BOTH SIDES OF EXISTING WOOD STOREFRONT SYSTEM; STAIN ALL WOOD ELEMENTS. CAREFULLY STRIP AND CLEAN PAINT FROM GLASS WHERE PRESENT.
2 PROVIDE NEW TAS/ADA COMPLIANT OAK HANDRAILS. STAIN TO MATCH TRIM, W/ OIL-RUBBED BRONZE WALL MOUNTS, RE: 11/A-500
3 MRL ELEVATOR; REFER TO SPECS
4 HI / LOW DRINKING FOUNTAIN W/ BOTTLE FILLER; REFER TO MEP
5 CUSTOM STAINED WOOD DIAS; REFER TO ELEVATION FOR DESIGN INTENT
6 IN-WALL MAILBOX
7 RESTORE HARDWOOD FLOORING
8 RESTORE PLASTER W/ NEW G.W.B. IN-KIND, PAINT
9 INFILL WALL AT PREVIOUS DOOR LOCATION, IN-KIND
10 NEW GUARDRAIL AT LOCATION OF DEMOED WALL, PAINT
11 NEW REINF. CONC. SLAB, RE: STRUC.
12 WOOD PODIUM, BY OTHERS
13 NEW PEW, BY OTHERS
14 NEW STL. COLUMN, RE: STRUC.
15 NEW MOP SINK
16 STRIP AND REFINISH EXISTING BAR RAIL. REPAIR BROKEN OR DETERIORATED PIECES AS NEEDED; STAIN TO MATCH WINDOW TRIM.

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REGISTERED ARCHITECT
MATTHEW B. NOVAK
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STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT FLOOR PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-100

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GENERAL NOTES

A. ARCHITECTURAL ELEVATION - 100'-0".
B. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
C. ALL FURNITURE SHOWN IS REFERENCE ONLY OR BY OWNER.
D. ALL WINDOWS, TRIM, PICTURE RAIL, AND DOORS, INTERIOR AND EXTERIOR, TO BE FULLY STRIPPED OF PREEXISTING PAINT OR TRIM.
E. ALL NEW WINDOWS TO RECEIVE HORIZONTAL LOUVER BLINDS TO MATCH EXISTING.

KEYNOTES

1 STRIP, REPAIR, THEN REFINISH BOTH SIDES OF EXISTING WOOD STOREFRONT SYSTEM; STAIN ALL WOOD ELEMENTS. CAREFULLY STRIP AND CLEAN PAINT FROM GLASS WHERE PRESENT.
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13 NEW PEW, BY OTHERS
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15 NEW MOP SINK
16 STRIP AND REFINISH EXISTING BAR RAIL. REPAIR BROKEN OR DETERIORATED PIECES AS NEEDED; STAIN TO MATCH WINDOW TRIM.

1 FIRST FLOOR PLAN - NEW CONSTRUCTION
3/16" = 1'-0"

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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-101

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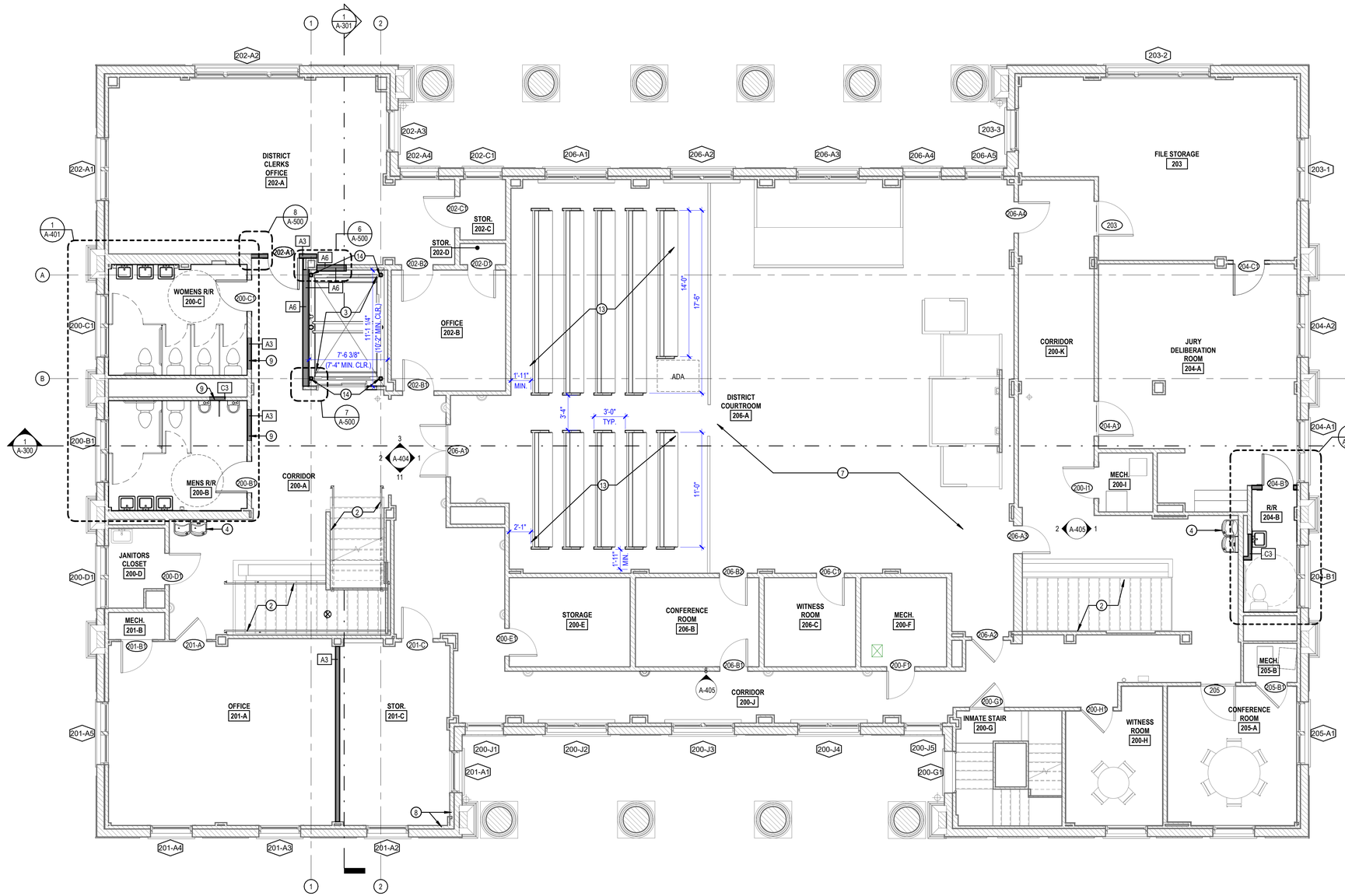

1 SECOND FLOOR PLAN - NEW CONSTRUCTION

3/16" = 1'-0"

GENERAL NOTES

A. ARCHITECTURAL ELEVATION - 100'-0".
B. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
C. ALL FURNITURE SHOWN IS REFERENCE ONLY OR BY OWNER.
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E. ALL NEW WINDOWS TO RECEIVE HORIZONTAL LOUVER BLINDS TO MATCH EXISTING.

KEYNOTES

1 STRIP, REPAIR, THEN REFINISH BOTH SIDES OF EXISTING WOOD STOREFRONT SYSTEM; STAIN ALL WOOD ELEMENTS. CAREFULLY STRIP AND CLEAN PAINT FROM GLASS WHERE PRESENT.
2 PROVIDE NEW TAS/ADA COMPLIANT OAK HANDRAILS. STAIN TO MATCH TRIM, W/ OIL-RUBBED BRONZE WALL MOUNTS, RE: 11/A-500
3 MRL ELEVATOR; REFER TO SPECS
4 HI / LOW DRINKING FOUNTAIN W/ BOTTLE FILLER; REFER TO MEP
5 CUSTOM STAINED WOOD DIAS; REFER TO ELEVATION FOR DESIGN INTENT
6 IN-WALL MAILBOX
7 RESTORE HARDWOOD FLOORING
8 RESTORE PLASTER W/ NEW G.W.B. IN-KIND, PAINT
9 INFILL WALL AT PREVIOUS DOOR LOCATION, IN-KIND
10 NEW GUARDRAIL AT LOCATION OF DEMOED WALL, PAINT
11 NEW REINF. CONC. SLAB, RE: STRUC.
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14 NEW STL. COLUMN, RE: STRUC.
15 NEW MOP SINK
16 STRIP AND REFINISH EXISTING BAR RAIL. REPAIR BROKEN OR DETERIORATED PIECES AS NEEDED; STAIN TO MATCH WINDOW TRIM.

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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-102

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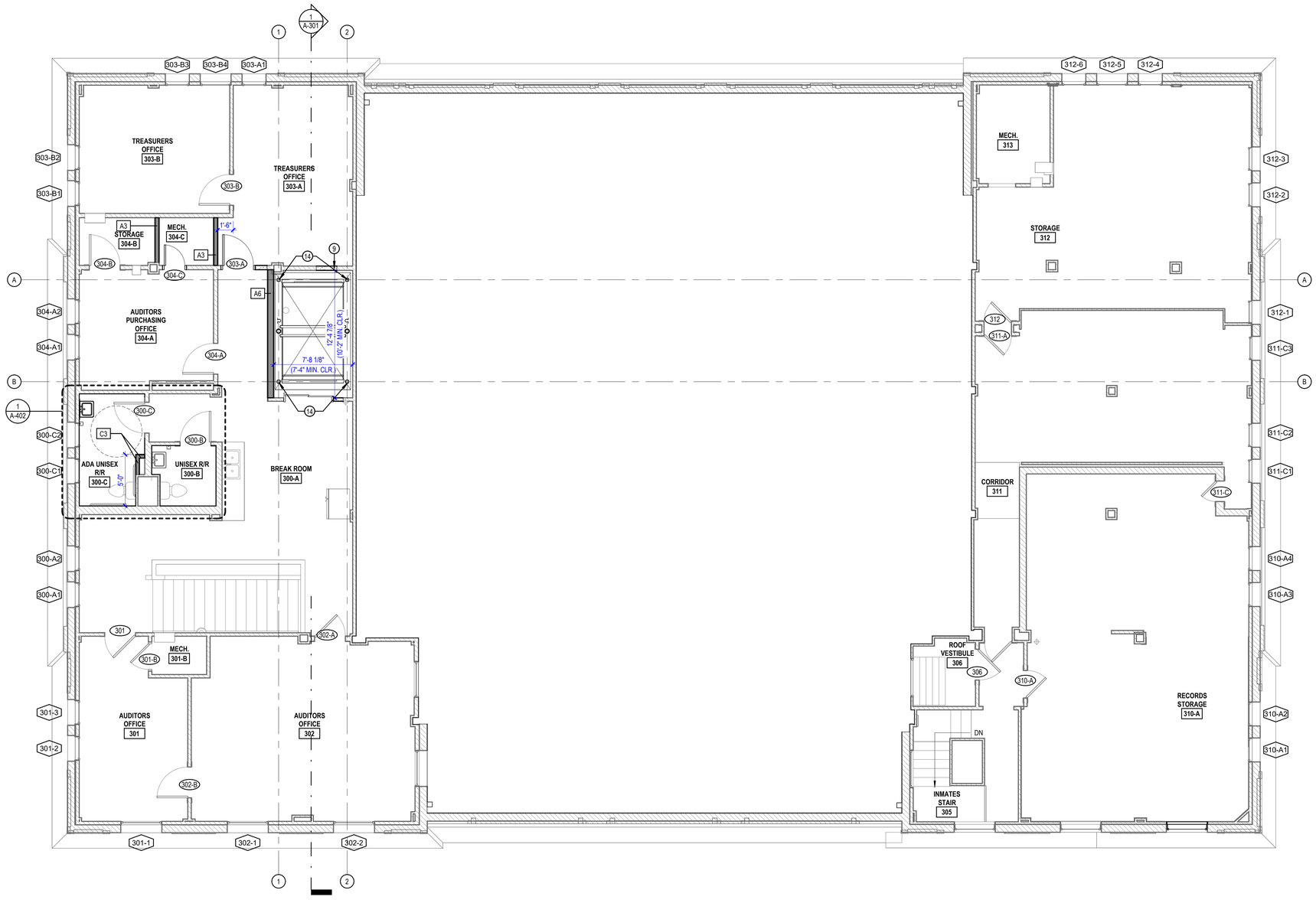

4 THIRD FLOOR PLAN - NEW CONSTRUCTION

3/16" = 1'-0"

GENERAL NOTES

A. ARCHITECTURAL ELEVATION - 100'-0".
B. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
C. ALL FURNITURE SHOWN IS REFERENCE ONLY OR BY OWNER.
D. ALL WINDOWS, TRIM, PICTURE RAIL, AND DOORS, INTERIOR AND EXTERIOR, TO BE FULLY STRIPPED OF PREEXISTING PAINT OR TRIM.
E. ALL NEW WINDOWS TO RECEIVE HORIZONTAL LOUVER BLINDS TO MATCH EXISTING.

KEYNOTES

1 STRIP, REPAIR, THEN REFINISH BOTH SIDES OF EXISTING WOOD STOREFRONT SYSTEM; STAIN ALL WOOD ELEMENTS. CAREFULLY STRIP AND CLEAN PAINT FROM GLASS WHERE PRESENT.
2 PROVIDE NEW TAS/ADA COMPLIANT OAK HANDRAILS, STAIN TO MATCH TRIM, W/ OIL-RUBBED BRONZE WALL MOUNTS, RE: 11/A-500
3 MRL ELEVATOR; REFER TO SPECS
4 HI / LOW DRINKING FOUNTAIN W/ BOTTLE FILLER; REFER TO MEP
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7 RESTORE HARDWOOD FLOORING
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9 INFILL WALL AT PREVIOUS DOOR LOCATION, IN-KIND
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14 NEW STL. COLUMN, RE: STRUC.
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16 STRIP AND REFINISH EXISTING BAR RAIL. REPAIR BROKEN OR DETERIORATED PIECES AS NEEDED; STAIN TO MATCH WINDOW TRIM.

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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-103

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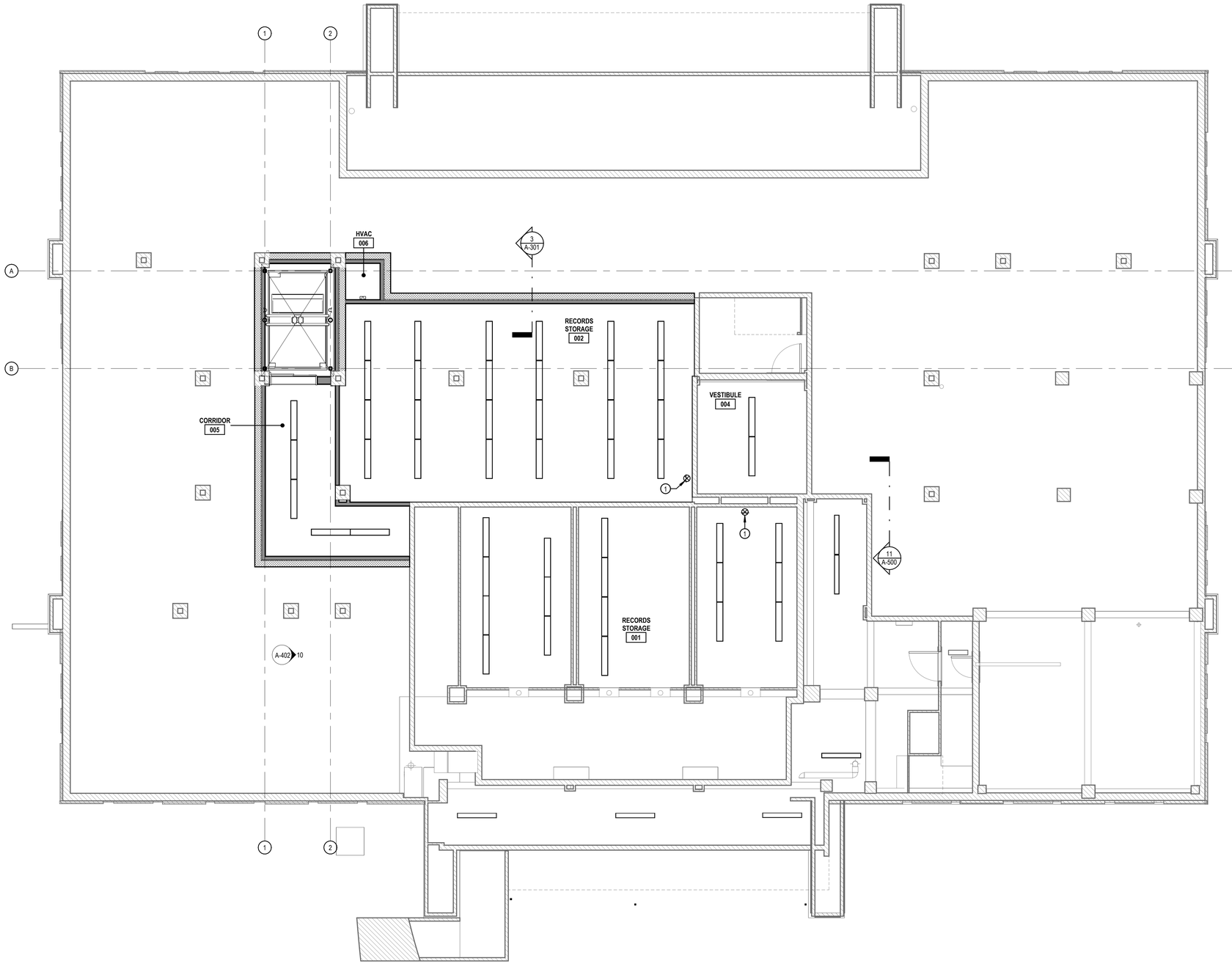

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B. ALL EXISTING LIGHTING TO BE REPLACED WITH LED FIXTURES, REFER TO ELECTRICAL DRAWINGS.

KEYNOTES

1 INSTALL NEW EXIT SIGN
2 INSTALL NEW EXIT SIGN, SIDE-MOUNT TO WALL
3 PROVIDE NEW GYP & PLASTER, RE: SPEC'S, PAINT TO MATCH
4 8" TALL A3 WALL TYPE PERIMETER FUR-DOWN; PAINT
5 1" THICK ACOUSTICAL PLASTER SYSTEM MOUNTED TO SUSPENDED TYP X GYP BOARD (B.O.D. BASWA PHON); COLOR TO MATCH REST OF CEILING; COORDINATE WITH DEPTH OF RECESSED LIGHT FIXTURES.
6 INSTALL MATCHING PICTURE RAIL WOOD TRIM ALONG EXISTING MECHANICAL FUR-DOWN; STAIN TO MATCH WINDOW TRIM.

RCP LEGEND

- 2' X 4' LED FIXTURE (RECESSED)
- STRIP LIGHT (SURFACE MOUNTED)
- RECESSED CAN FIXTURE RE: ELEC FOR SIZES
- PENDANT LIGHT FIXTURE
- LED WALL SCONCE
- EXIT SIGN
- 2' x 2' METAL ACCESS PANEL, PAINTED TO MATCH ADJACENT CEILING
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN
- SUSPENDED GYPSUM BOARD CEILING
- 1" PLASTER CEILING
- 2' X 2' SUSPENDED CEILING SYSTEM WITH LAY-IN ACOUSTICAL PANELS
- NO CEILING (EXPOSED TO STRUCTURE), U.N.O
- 9'-0" A.F.F. CEILING HEIGHT ABOVE FINISH FLOOR
- HEMISPHERE PENDANT LIGHT
- SIGNIFICANT DAMAGE
- NOT IN PHASE

1 BASEMENT RCP - NEW CONSTRUCTION
3/16" = 1'-0"

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REGISTERED ARCHITECT MATTHEW B. HOLVERSON 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT RCP

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-104

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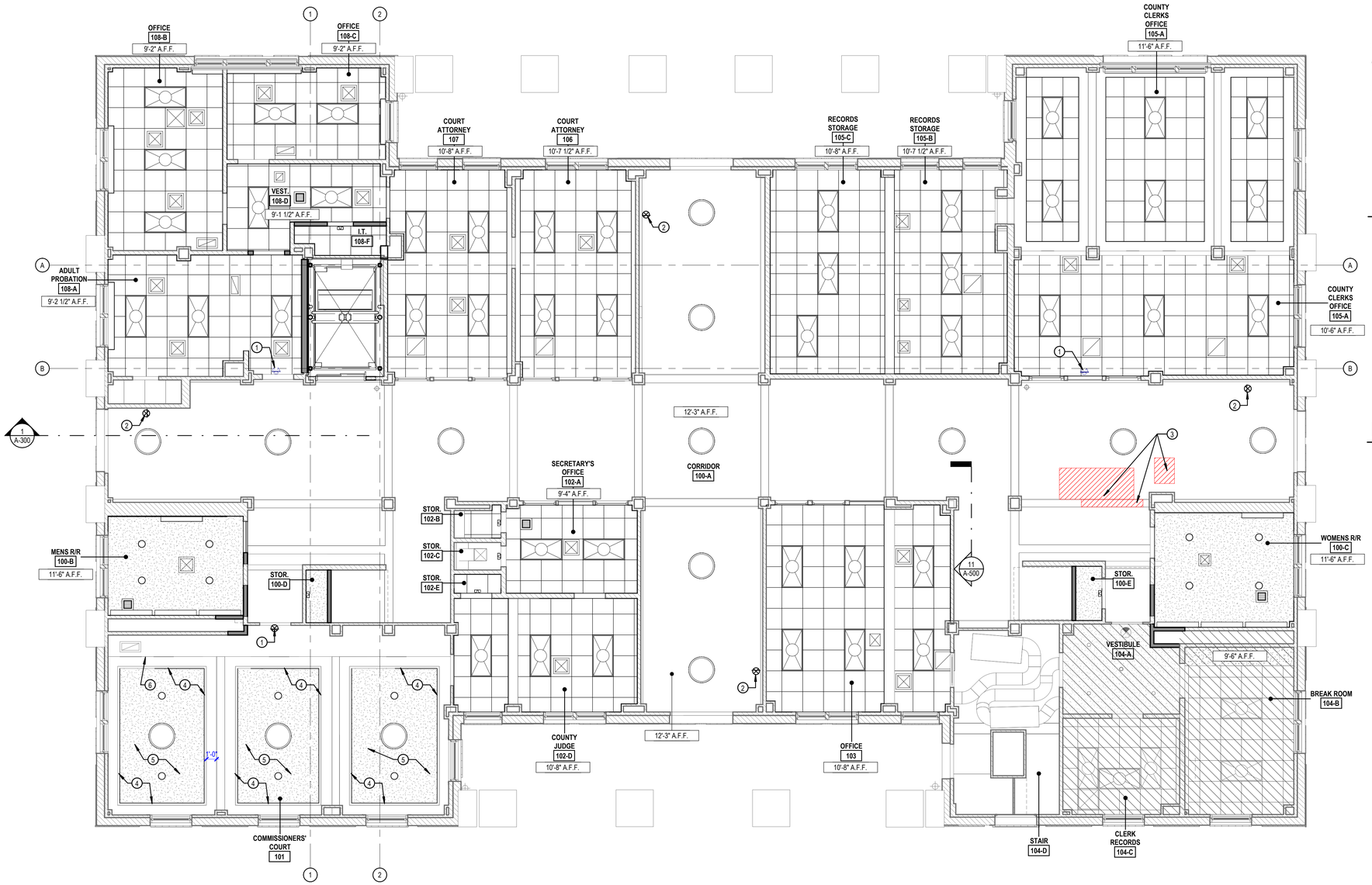

1 FIRST FLOOR RCP - NEW CONSTRUCTION
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B. ALL EXISTING LIGHTING TO BE REPLACED WITH LED FIXTURES, REFER TO ELECTRICAL DRAWINGS.
C. REPLACE EXISTING BOX SUPPLY GRILLES WITHIN EXISTING LAY-IN TILE CEILINGS WITH LOW PROFILE 2x2 METAL GRILLES (B.O.D.: TRUAIRE 24x24 2000PD/RS.
D. STRIP, REPAIR, AND REFINISH ALL EXISTING WOOD PICTURE RAIL TRIM. TRIM SHALL BE STAINED TO MATCH WINDOW TRIM. REPLACE DAMAGED SECTIONS OF TRIM IN KIND.
E. EXISTING MECHANICAL GRILLES WITHIN EXISTING PLASTER OR DRYWALL CEILINGS OR WALLS, SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING COLOR.

KEYNOTES

1 INSTALL NEW EXIT SIGN
2 INSTALL NEW EXIT SIGN, SIDE-MOUNT TO WALL
3 PROVIDE NEW GYP & PLASTER, RE: SPEC'S, PAINT TO MATCH
4 8" TALL A3 WALL TYPE PERIMETER FUR-DOWN; PAINT
5 1" THICK ACOUSTICAL PLASTER SYSTEM MOUNTED TO SUSPENDED TYP X GYP BOARD (B.O.D. BASWA PHON); COLOR TO MATCH REST OF CEILING; COORDINATE WITH DEPTH OF RECESSED LIGHT FIXTURES.
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- HEMISPHERE PENDANT LIGHT
- SIGNIFICANT DAMAGE
- NOT IN PHASE

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SAN ANTONIO TEXAS
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210 226 1000

REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR RCP

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-105

3/6/2026 3:26:30 PM

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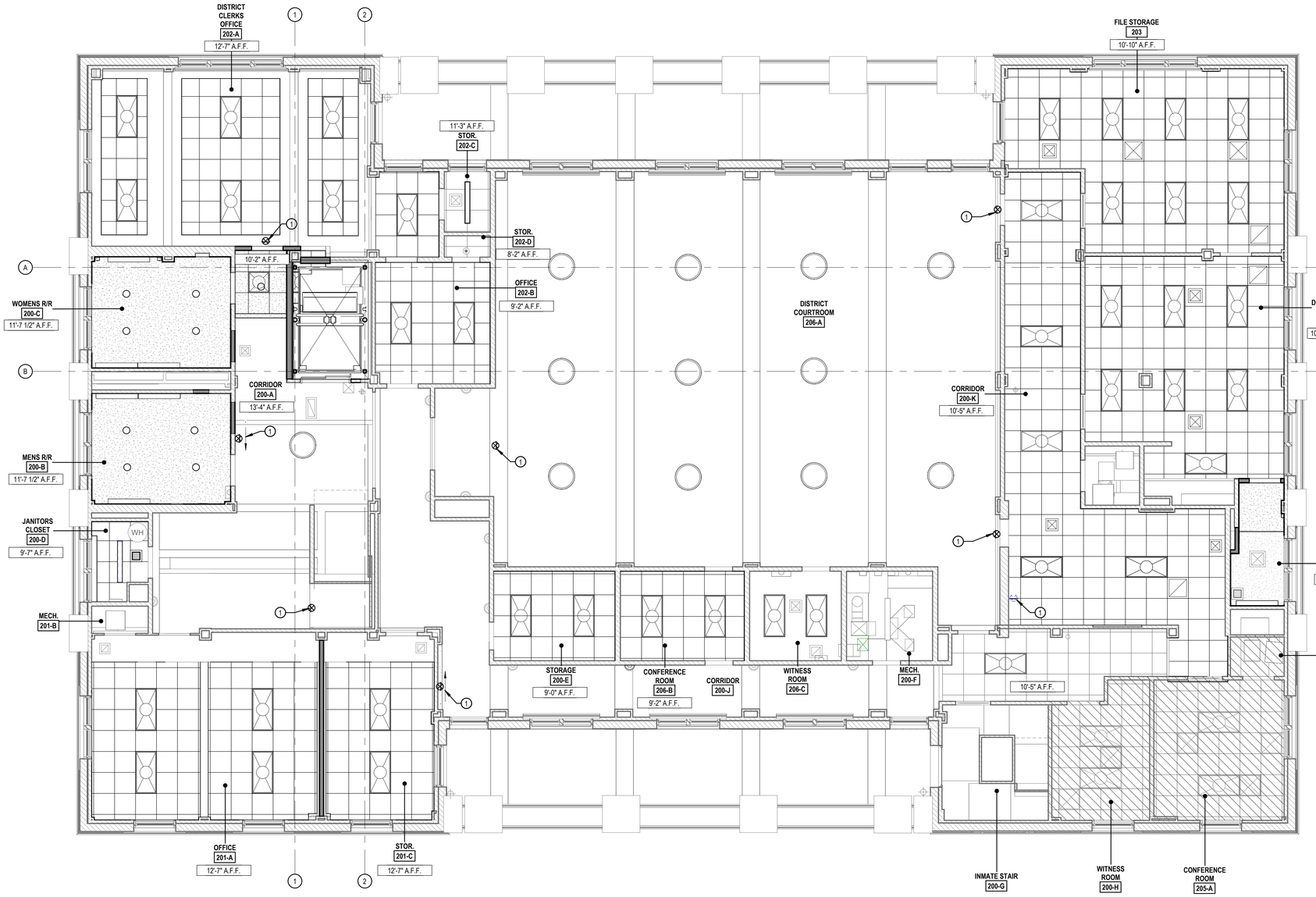

1 SECOND FLOOR RCP - NEW CONSTRUCTION
3/16" = 1'-0"

GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
B. ALL EXISTING LIGHTING TO BE REPLACED WITH LED FIXTURES, REFER TO ELECTRICAL DRAWINGS.
C. REPLACE EXISTING BOX SUPPLY GRILLES WITHIN EXISTING LAY-IN TILE CEILINGS WITH LOW PROFILE 2x2 METAL GRILLES (B.O.D.: TRUAIRE 24x24 2000PD/R6.
D. STRIP, REPAIR, AND REFINISH ALL EXISTING WOOD PICTURE RAIL TRIM. TRIM SHALL BE STAINED TO MATCH WINDOW TRIM. REPLACE DAMAGED SECTIONS OF TRIM IN KIND.
E. EXISTING MECHANICAL GRILLES WITHIN EXISTING PLASTER OR DRYWALL CEILINGS OR WALLS, SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING COLOR.

KEYNOTES

1 INSTALL NEW EXIT SIGN
2 INSTALL NEW EXIT SIGN, SIDE-MOUNT TO WALL
3 PROVIDE NEW GYP & PLASTER, RE: SPEC'S, PAINT TO MATCH
4 8" TALL A3 WALL TYPE PERIMETER FUR-DOWN; PAINT
5 1" THICK ACOUSTICAL PLASTER SYSTEM MOUNTED TO SUSPENDED TYP X GYP BOARD (B.O.D. BASWA PHON); COLOR TO MATCH REST OF CEILING; COORDINATE WITH DEPTH OF RECESSED LIGHT FIXTURES.
6 INSTALL MATCHING PICTURE RAIL WOOD TRIM ALONG EXISTING MECHANICAL FUR-DOWN; STAIN TO MATCH WINDOW TRIM.

RCP LEGEND

- 2' X 4' LED FIXTURE (RECESSED)
- STRIP LIGHT (SURFACE MOUNTED)
- RECESSED CAN FIXTURE RE: ELEC FOR SIZES
- PENDANT LIGHT FIXTURE
- LED WALL SCONCE
- EXIT SIGN
- 2' x 2' METAL ACCESS PANEL, PAINTED TO MATCH ADJACENT CEILING
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN
- SUSPENDED GYPSUM BOARD CEILING
- 1" PLASTER CEILING
- 2' X 2' SUSPENDED CEILING SYSTEM WITH LAY-IN ACOUSTICAL PANELS
- NO CEILING (EXPOSED TO STRUCTURE), U.N.O
- 9'-0" A.F.F. CEILING HEIGHT ABOVE FINISH FLOOR
- HEMISPHERE PENDANT LIGHT
- SIGNIFICANT DAMAGE
- NOT IN PHASE

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915 SOUTH ST MARY'S STREET
SAN ANTONIO TEXAS
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210.496.1500

REGISTERED ARCHITECT MATTHEW B. NOVARRO 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR RCP

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-106

3/6/2026 3:26:33 PM

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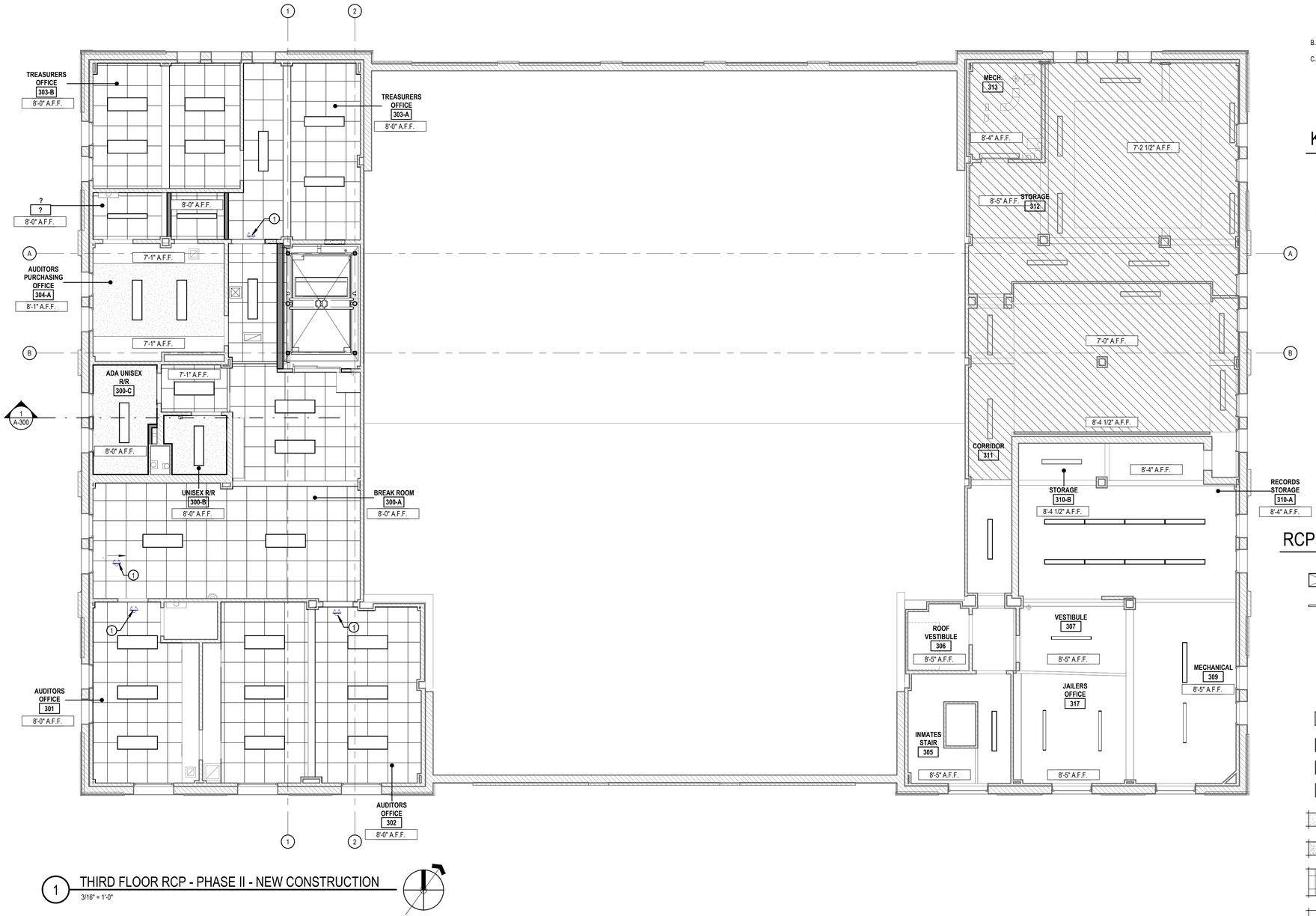

1 THIRD FLOOR RCP - PHASE II - NEW CONSTRUCTION
3/16" = 1'-0"

GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
B. ALL EXISTING LIGHTING TO BE REPLACED WITH LED FIXTURES, REFER TO ELECTRICAL DRAWINGS.
C. REPLACE EXISTING BOX SUPPLY GRILLES WITHIN EXISTING LAY-IN TILE CEILINGS WITH LOW PROFILE 2x2 METAL GRILLES (B.O.D.: TRUAIRE 24x24 2000PD/R6.

KEYNOTES

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2 INSTALL NEW EXIT SIGN, SIDE-MOUNT TO WALL
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4 8" TALL A3 WALL TYPE PERIMETER FUR-DOWN; PAINT
5 1" THICK ACOUSTICAL PLASTER SYSTEM MOUNTED TO SUSPENDED TYP X GYP BOARD (B.O.D. BASWA PHON); COLOR TO MATCH REST OF CEILING; COORDINATE WITH DEPTH OF RECESSED LIGHT FIXTURES.
6 INSTALL MATCHING PICTURE RAIL WOOD TRIM ALONG EXISTING MECHANICAL FUR-DOWN; STAIN TO MATCH WINDOW TRIM.

RCP LEGEND

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- STRIP LIGHT (SURFACE MOUNTED)
- RECESSED CAN FIXTURE RE: ELEC FOR SIZES
- PENDANT LIGHT FIXTURE
- LED WALL SCONCE
- EXIT SIGN
- 2' x 2' METAL ACCESS PANEL, PAINTED TO MATCH ADJACENT CEILING
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN
- SUSPENDED GYPSUM BOARD CEILING
- 1" PLASTER CEILING
- 2' X 2' SUSPENDED CEILING SYSTEM WITH LAY-IN ACOUSTICAL PANELS
- NO CEILING (EXPOSED TO STRUCTURE), U.N.O
- 9'-0" A.F.F. CEILING HEIGHT ABOVE FINISH FLOOR
- HEMISPHERE PENDANT LIGHT
- SIGNIFICANT DAMAGE
- NOT IN PHASE

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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR RCP

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-107

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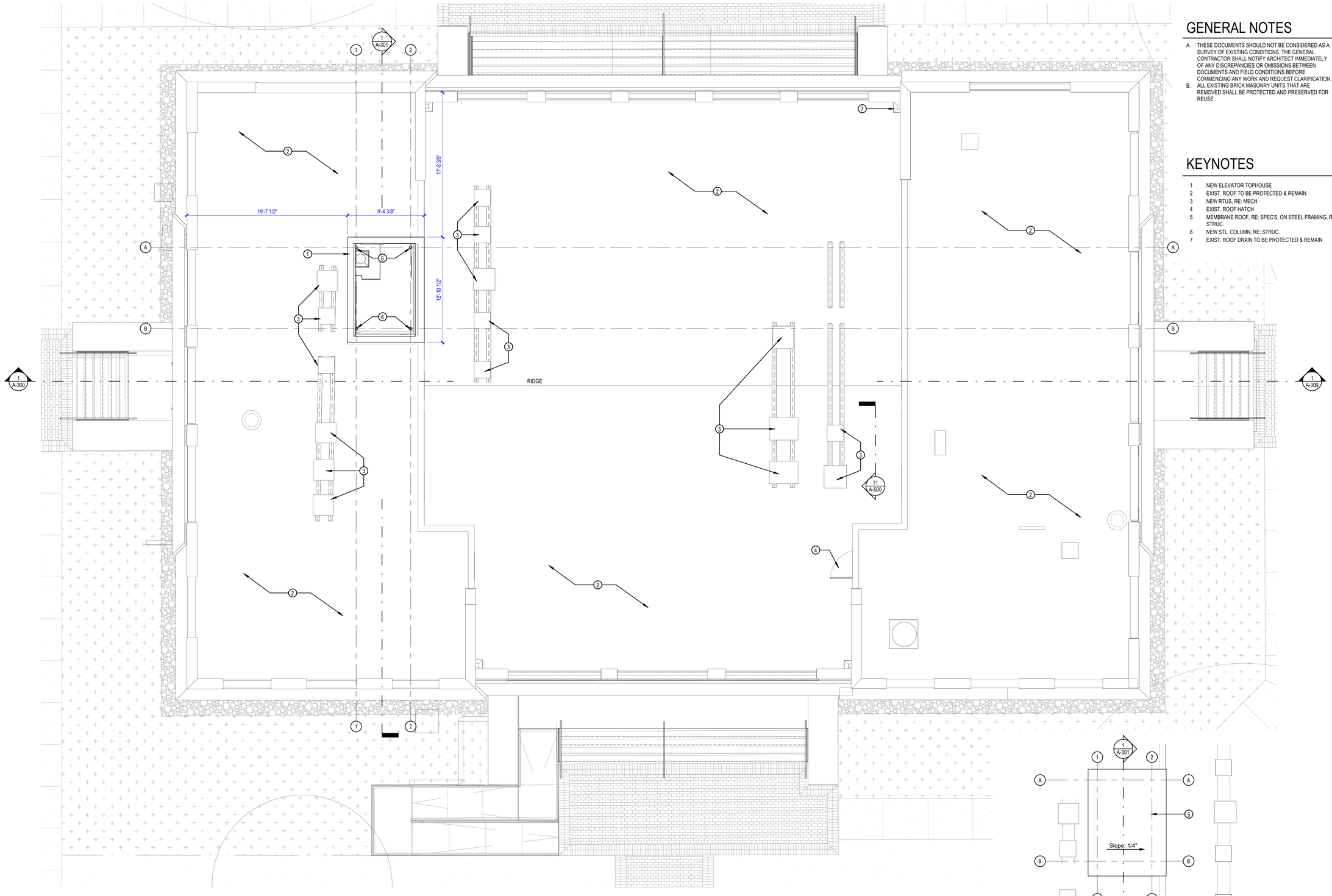

1 ROOF PLAN - NEW CONSTRUCTION
3/16" = 1'-0"

2 ROOF PLAN @ TOPHOUSE
3/16" = 1'-0"

GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
B. ALL EXISTING BRICK MASONRY UNITS THAT ARE REMOVED SHALL BE PROTECTED AND PRESERVED FOR REUSE.

KEYNOTES

1 NEW ELEVATOR TOPHOUSE
2 EXIST. ROOF TO BE PROTECTED & REMAIN
3 NEW RTUS. RE: MECH.
4 EXIST. ROOF HATCH
5 MEMBRANE ROOF, RE: SPEC'S, ON STEEL FRAMING, RE: STRUC.
6 NEW STL. COLUMN, RE: STRUC.
7 EXIST. ROOF DRAIN TO BE PROTECTED & REMAIN

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REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ROOF PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-108

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GENERAL NOTES

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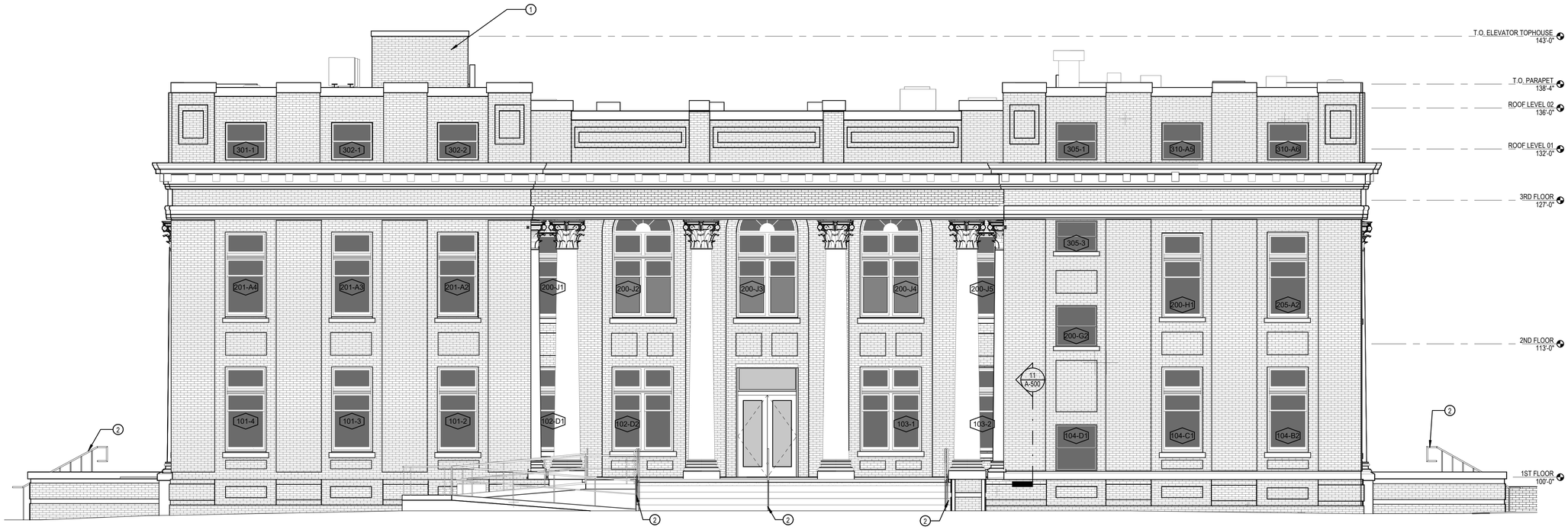
B. ALL EXISTING BRICK MASONRY UNITS THAT ARE REMOVED SHALL BE PROTECTED AND PRESERVED FOR REUSE.
C. ALL EXTERIOR WINDOWS ASIDE FROM THOSE RECONSTRUCTED IN PHASE I ARE TO BE STRIPPED OF 95% OF THEIR PAINT DOWN TO BARE WOOD AND THEIR EXTANT CONDITIONS EVALUATED. COMPONENTS ARE TO BE REPAIRED OR REPLACED AS NECESSARY PER A-601. NEW PAINT IS TO BE PROVIDED AT THE EXTERIOR ONLY.

KEYNOTES

1 NEW ELEVATOR TOPHOUSE
2 PROVIDE NEW TAS/ADA COMPLIANT HANDRAILS
3 RESTORE COURTHOUSE STEPS, REPAIR CRACKING, GAPS, & STAINING PER SPEC'S, ENSURE LEVEL SURFACES



1 SOUTH ELEVATION - NEW CONSTRUCTION
3/16" = 1'-0"

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REGISTERED ARCHITECT MATTHEW B. HOLMES 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXTERIOR ELEVATIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-200

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GENERAL NOTES

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B. ALL EXISTING BRICK MASONRY UNITS THAT ARE REMOVED SHALL BE PROTECTED AND PRESERVED FOR REUSE.
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KEYNOTES

1 NEW ELEVATOR TOPHOUSE
2 PROVIDE NEW TAS/ADA COMPLIANT HANDRAILS
3 RESTORE COURTHOUSE STEPS, REPAIR CRACKING, GAPS, & STAINING PER SPEC'S, ENSURE LEVEL SURFACES

1 NORTH ELEVATION - NEW CONSTRUCTION
3/16" = 1'-0"

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REGISTERED ARCHITECT
MARK B. NOVAK
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXTERIOR ELEVATIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-201

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1 EAST ELEVATION - NEW CONSTRUCTION

3/16" = 1'-0"

2 WEST ELEVATION - NEW CONSTRUCTION

3/16" = 1'-0"

GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.

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KEYNOTES

1 NEW ELEVATOR TOPHOUSE

2 PROVIDE NEW TAS/ADA COMPLIANT HANDRAILS

3 RESTORE COURTHOUSE STEPS, REPAIR CRACKING, GAPS, & STAINING PER SPEC'S, ENSURE LEVEL SURFACES

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REGISTERED ARCHITECT
MATTHEW B. NOVAK
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXTERIOR ELEVATIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-202

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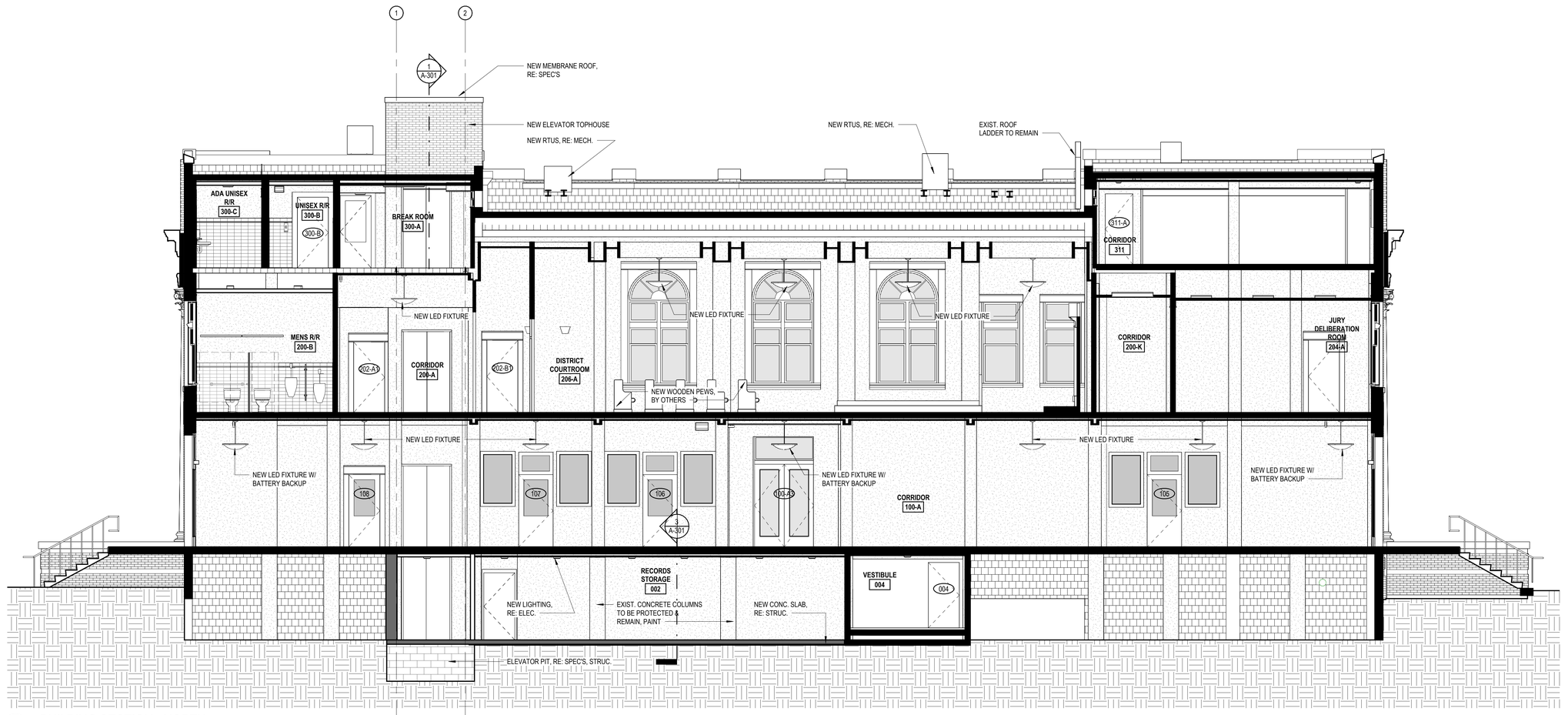

1 BUILDING SECTION - NORTH
3/16" = 1'-0"

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REGISTERED ARCHITECT MATTHEW B. HOLVERSON 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BUILDING SECTION

PROJECT NO: 2308 A1

△ REVISIONS DATE

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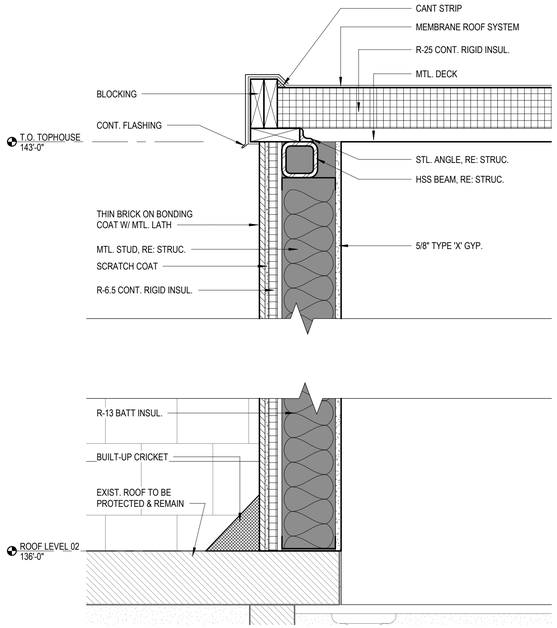
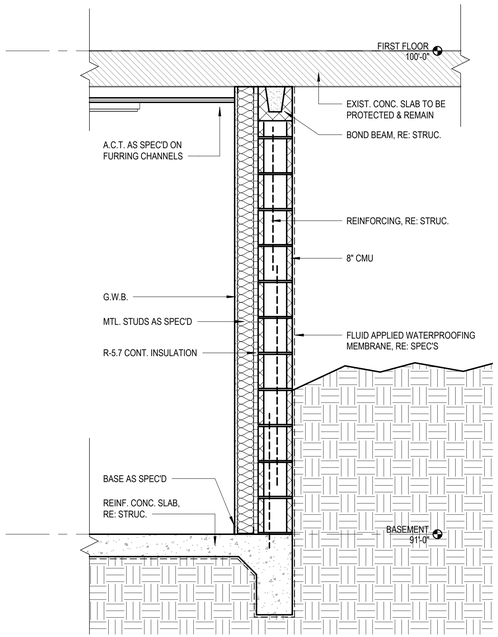


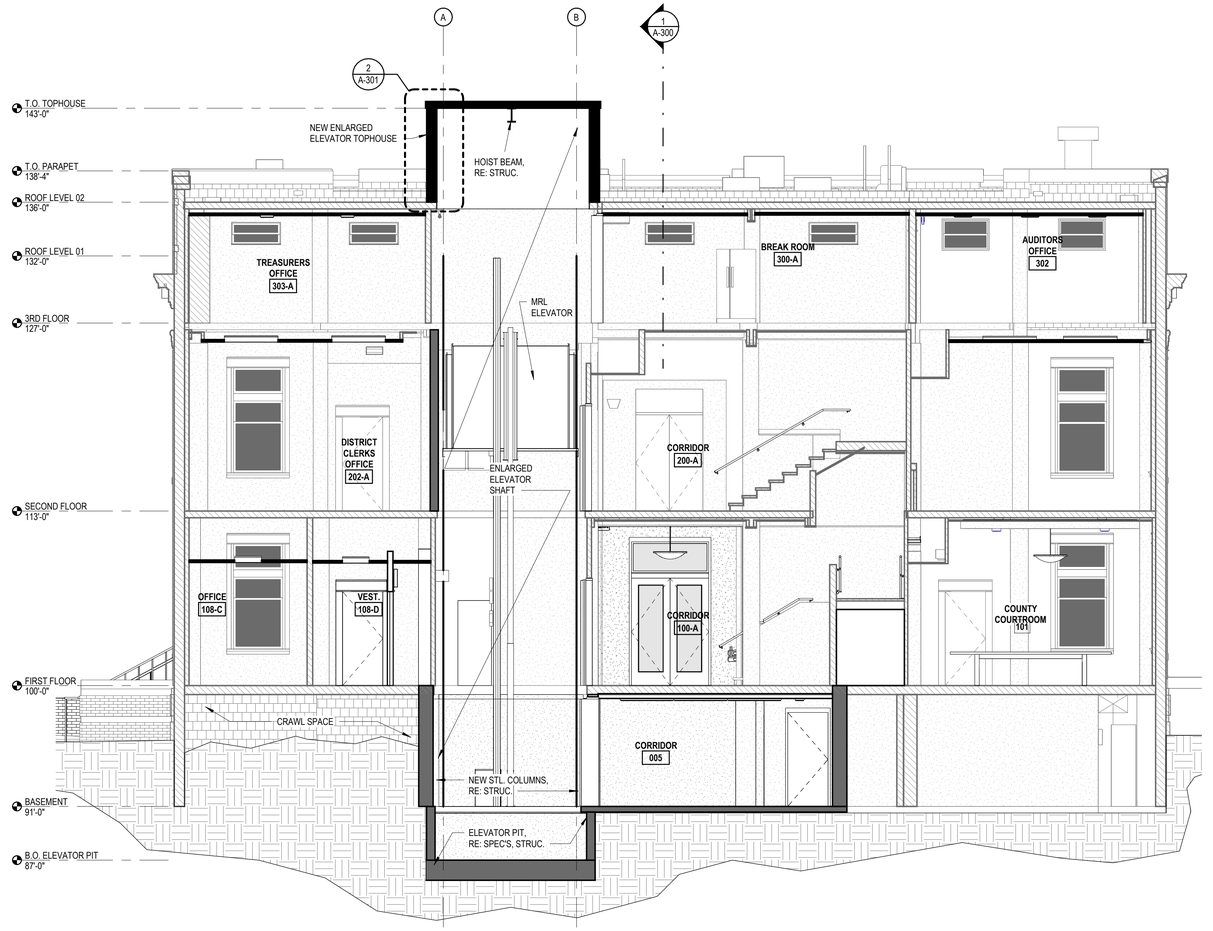
2 SECTION DTL. @ ELEVATOR TOPHOUSE

1 1/2" = 1'-0"



3 TYP. SECTION @ BASEMENT

3/4" = 1'-0"



1 BUILDING SECTION @ ELEVATOR

3/16" = 1'-0"

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REGISTERED ARCHITECT
MATTHEW B. HOLLAND
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BUILDING SECTION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-301

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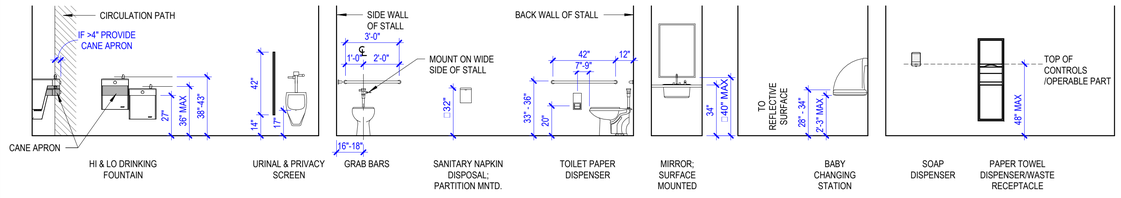
TYPICAL MOUNTING HEIGHTS

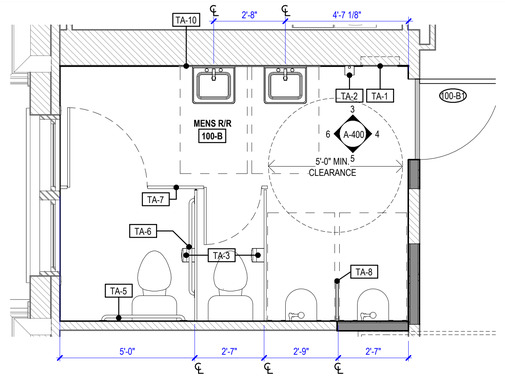


PLUMBING FIXTURE ANALYSIS

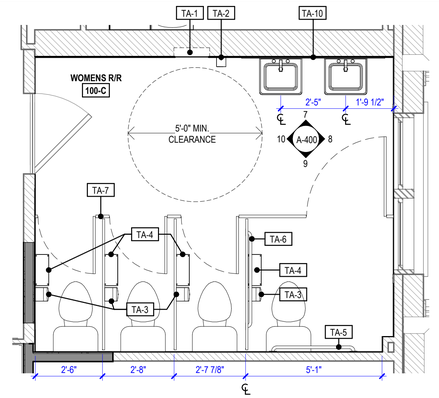
OCCUPANCY	WATER CLOSETS		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN	OTHER
	MALE	FEMALE	MALE	FEMALE			
Occupant Load: 400	Distribution: 50% Male	50% Female					
B	5 *	5	4	4	0	4	1 service sink
	1/25 for the first 50 & 1/50 for the remainder exceeding 50	1/25 for the first 50 & 1/50 for the remainder exceeding 50	1/40 for the first 80 & 1/80 for the remainder exceeding 80	1/40 for the first 80 & 1/80 for the remainder exceeding 80		1/100	
	* Urinals shall not substituted for more than 50% of the required water closets						
Occupant Load: 400	Distribution: 50% Male	50% Female					
A-3	2 *	3	1	1	0	1	1 service sink
	1/150	1/75	1/200	1/200		1/1000	
	* Urinals shall not substituted for more than 67% of the required water closets						

TOILET ACCESSORY SCHEDULE

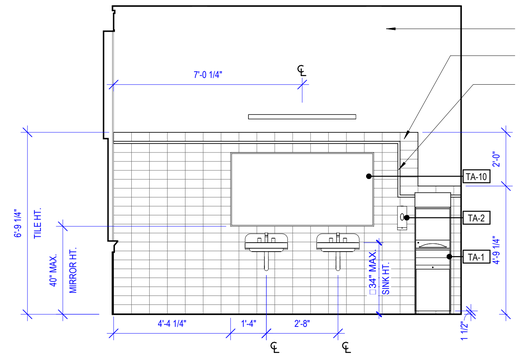
Type Mark	DESCRIPTION	MANUFACTURER	MODEL NO.
TA-1	ClassicSeries® Recessed Convertible Paper Towel Dispenser and Waste Receptacle	Bobrick Corporation	B-3940
TA-2	Automatic Wall Mounted Liquid Soap Dispense	Bobrick Corporation	B-2012
TA-3	Contura Series Surface Mounted Multi-roll Toilet Tissue Dispenser	Bobrick Corporation	B-4288
TA-4	Classic Series Surface Mounted Waste Receptacle	Bobrick Corporation	B-279
TA-5	1 1/4" Diameter Stainless Steel Grab Bars with Snap Flange	Bobrick Corporation	B-5806 Series
TA-6	1 1/4" Diameter Stainless Steel Grab Bars with Snap Flange	Bobrick Corporation	B-5806 Series
TA-7	Restroom Partitions, Floor-Braced, Match Existing	Match Existing	Match Existing
TA-8	Restroom Partitions, Floor-Braced, Match Existing	Match Existing	Match Existing
TA-10	Channel-Frame Mirror, Bright Polished Frame. Type 430. Stainless Steel (6'4" x 2'9")	Bobrick Corporation	B-165 (64")
TA-11	Channel-Frame Mirror. Type 430. Stainless Steel (2'-0" x 2'9")	Bobrick Corporation	B-165 (24")



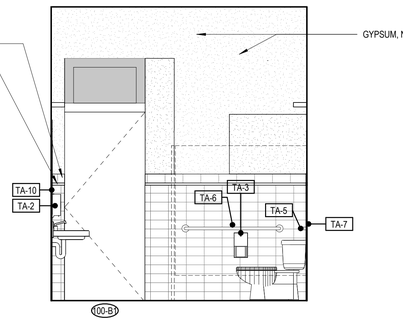
1 FIRST FLOOR PLAN - MEN'S RESTROOM 100-B
3/8" = 1'-0"



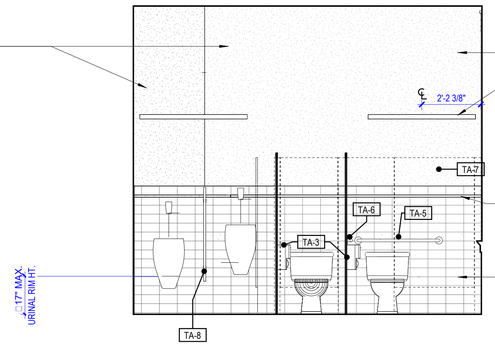
2 FIRST FLOOR PLAN - WOMEN'S RESTROOM 100-C
3/8" = 1'-0"



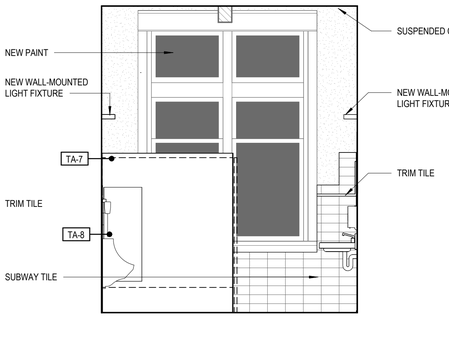
3 INTERIOR ELEV. MEN'S R/R 100-B
3/8" = 1'-0"



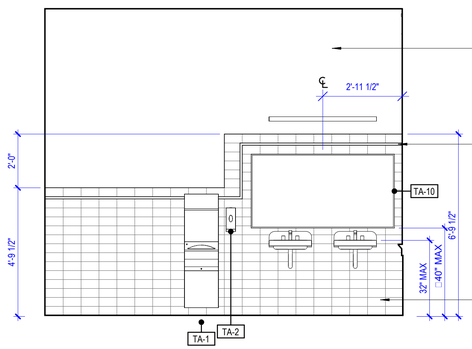
4 INTERIOR ELEV. MEN'S R/R 100-B
3/8" = 1'-0"



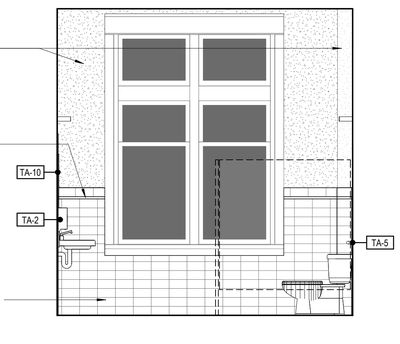
5 INTERIOR ELEV. MEN'S R/R 100-B
3/8" = 1'-0"



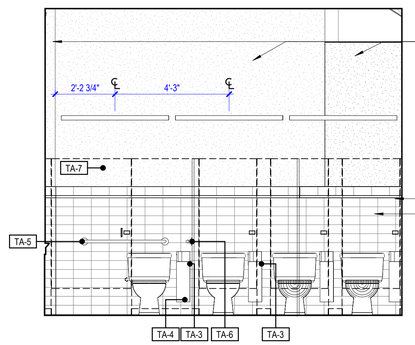
6 INTERIOR ELEV. MEN'S R/R 100-B
3/8" = 1'-0"



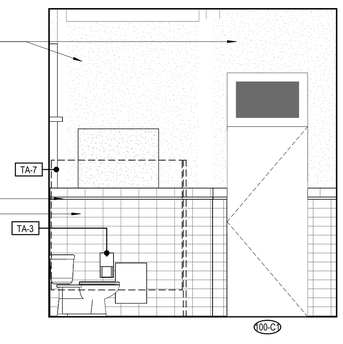
7 INTERIOR ELEV. WOMEN'S R/R 100-B
3/8" = 1'-0"



8 INTERIOR ELEV. WOMEN'S R/R 100-B
3/8" = 1'-0"



9 INTERIOR ELEV. WOMEN'S R/R 100-B
3/8" = 1'-0"



10 INTERIOR ELEV. WOMEN'S R/R 100-B
3/8" = 1'-0"

Fisher Heck ARCHITECTS
915 SOUTH ST MARY'S STREET
SAN ANTONIO TEXAS
FISHERHECK.COM
210.249.1000

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ENLARGED PLANS & INTERIOR ELEVATIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-400

3/6/2026 3:27:19 PM

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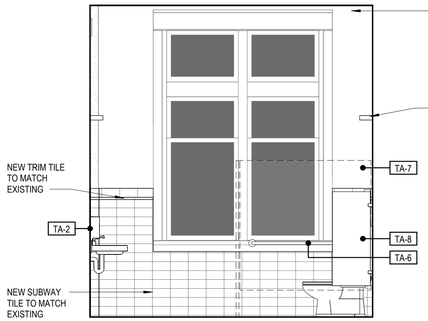
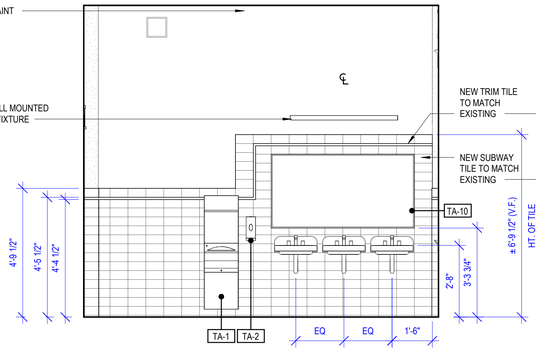
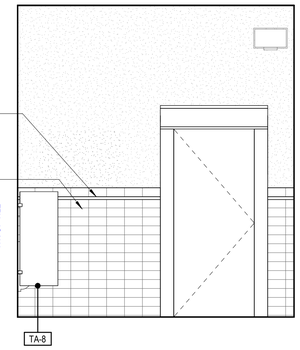


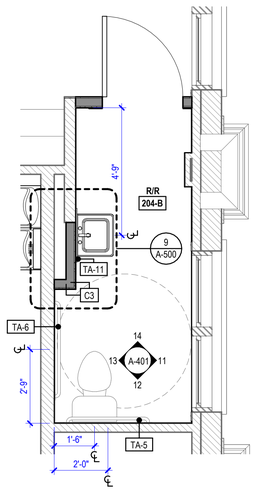
5 INTERIOR ELEV. MEN'S R/R/ 200-B
3/8" = 1'-0"



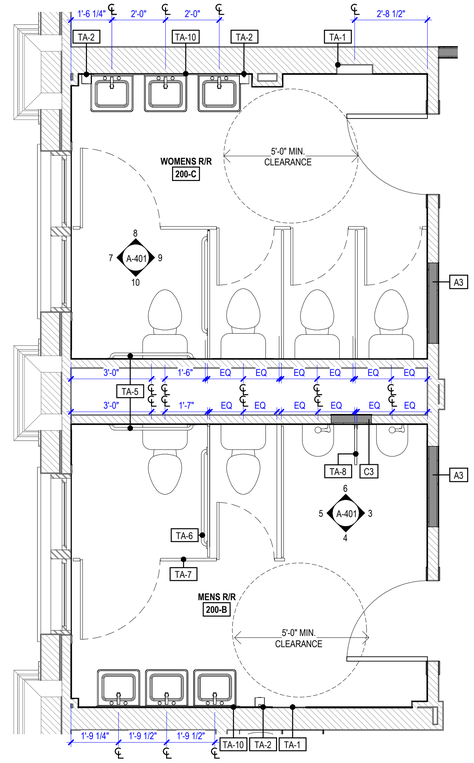
4 INTERIOR ELEV. MEN'S R/R/ 200-B
3/8" = 1'-0"



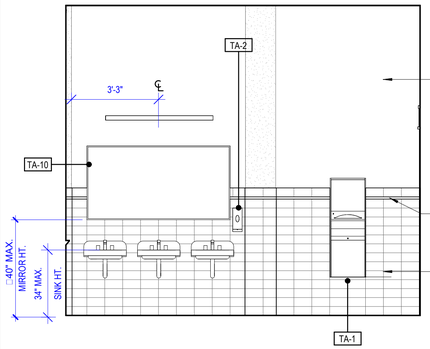
3 INTERIOR ELEV. MEN'S R/R/ 200-B
3/8" = 1'-0"



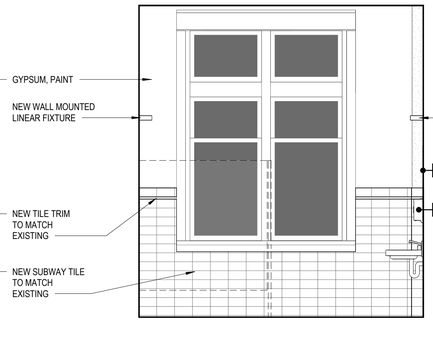
2 SECOND FLOOR R/R 204-B
3/8" = 1'-0"



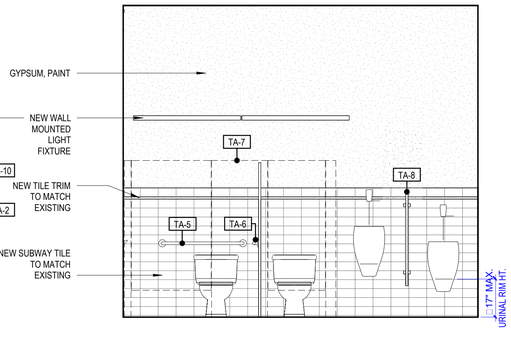
1 SECOND FLOOR R/R 200-B / 200-C
3/8" = 1'-0"



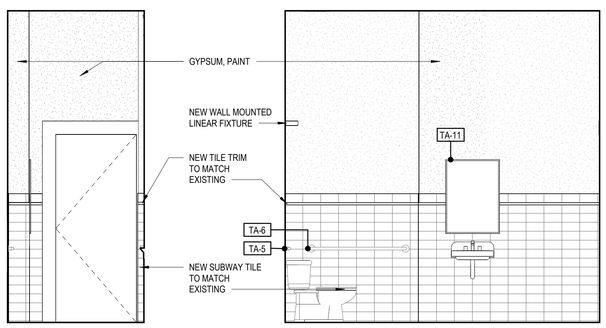
8 INTERIOR ELEV. WOMEN'S R/R/ 200-C
3/8" = 1'-0"



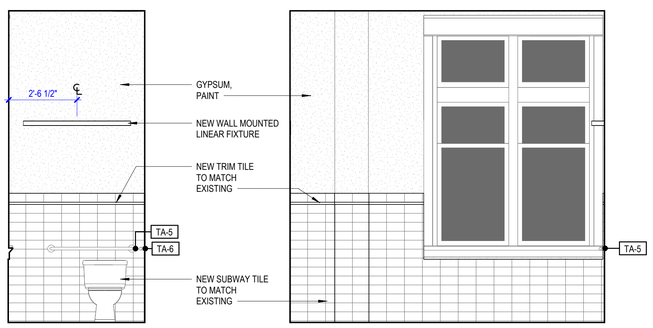
7 INTERIOR ELEV. WOMEN'S R/R/ 200-C
3/8" = 1'-0"



6 INTERIOR ELEV. MEN'S R/R/ 200-B
3/8" = 1'-0"



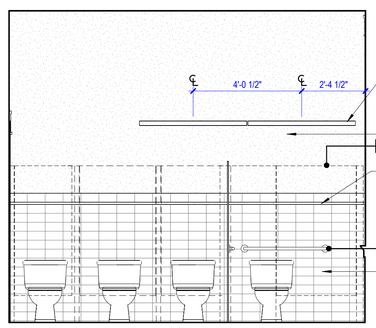
14 INTERIOR ELEV. R/R/ 204-BC
3/8" = 1'-0"



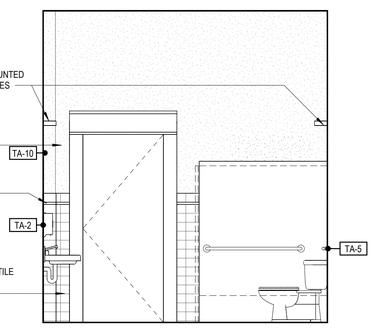
13 INTERIOR ELEV. R/R/ 204-BC
3/8" = 1'-0"

12 INTERIOR ELEV. R/R/ 204-BC
3/8" = 1'-0"

11 INTERIOR ELEV. R/R/ 204-BC
3/8" = 1'-0"



10 INTERIOR ELEV. WOMEN'S R/R/ 200-C
3/8" = 1'-0"



9 INTERIOR ELEV. WOMEN'S R/R/ 200-C
3/8" = 1'-0"

Fisher Heck ARCHITECTS
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SAN ANTONIO, TEXAS
FISHERHECK.COM
210.249.0500

REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ENLARGED PLANS & INTERIOR ELEVATIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-401

3/6/2026 3:27:25 PM

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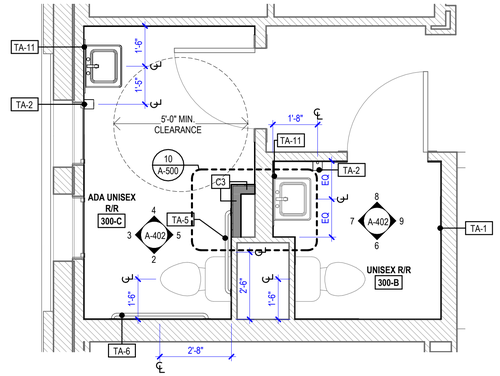
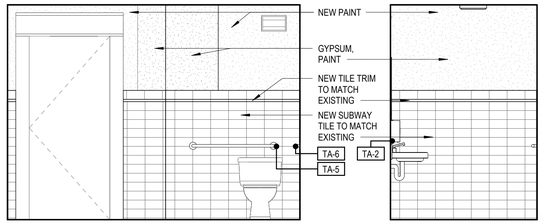
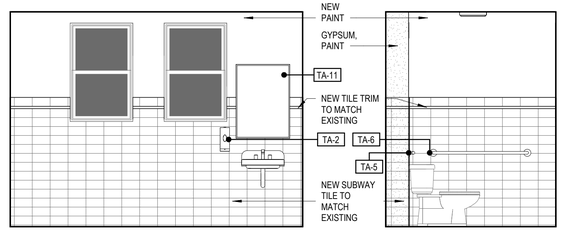


1 THIRD FLOOR PLAN - UNISEX R/R 300-C
3/8" = 1'-0"



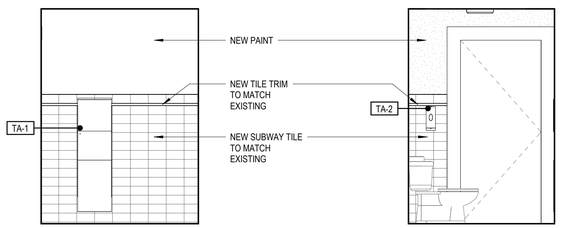
5 INTERIOR ELEV. UNISEX R/R 300-C
3/8" = 1'-0"

4 INTERIOR ELEV. UNISEX R/R 300-C
3/8" = 1'-0"



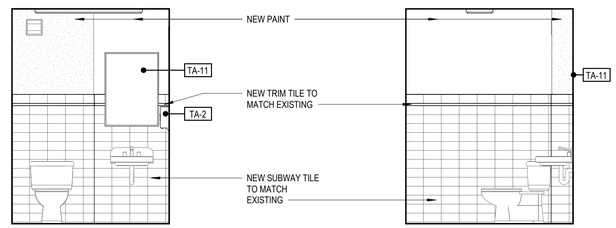
3 INTERIOR ELEV. UNISEX R/R 300-C
3/8" = 1'-0"

2 INTERIOR ELEV. UNISEX R/R 300-C
3/8" = 1'-0"



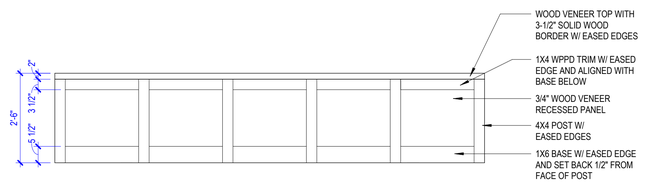
9 INTERIOR ELEV. UNISEX R/R 300-B
3/8" = 1'-0"

8 INTERIOR ELEV. UNISEX R/R 300-B
3/8" = 1'-0"



7 INTERIOR ELEV. UNISEX R/R 300-B
3/8" = 1'-0"

6 INTERIOR ELEV. UNISEX R/R 300-B
3/8" = 1'-0"



10 DIAS BENCH ELEVATION
1/2" = 1'-0"

Fisher Heck
ARCHITECTS
915 SOUTH ST MARY'S STREET
SAN ANTONIO TEXAS
FISHERHECK.COM
210 299 1000

REGISTERED ARCHITECT
MATTHEW B. NEVAREZ
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ENLARGED PLANS & INTERIOR ELEVATIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-402

3/6/2026 3:27:27 PM

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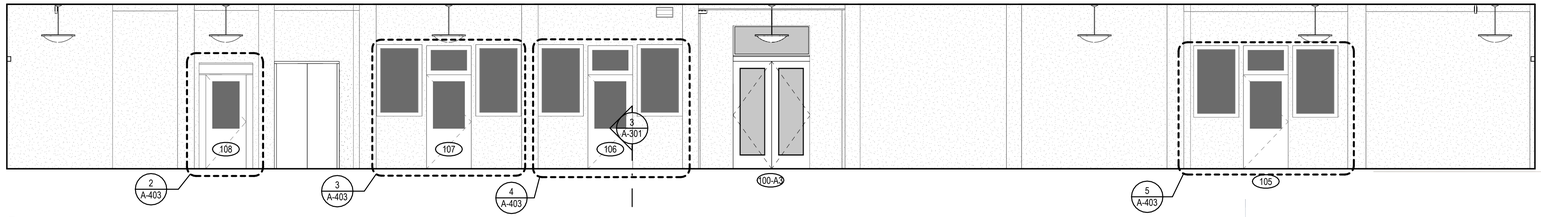
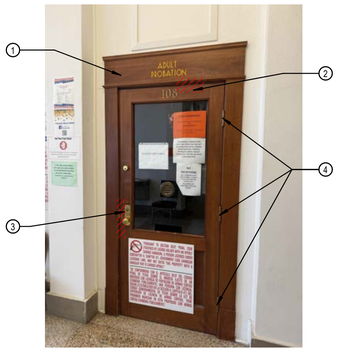
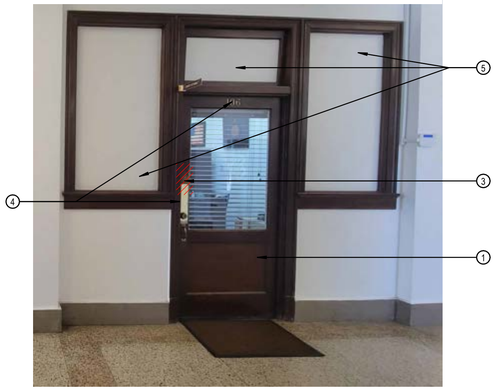


1 CORRIDOR 100-A - SOUTH ELEV.
3/16" = 1'-0"



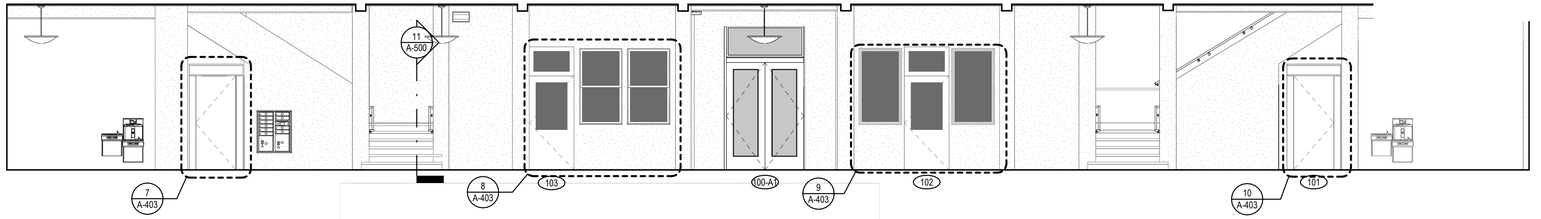
2 INT. ELEV. DOOR 108
N.T.S

3 INT. ELEV. - DOOR 107
N.T.S



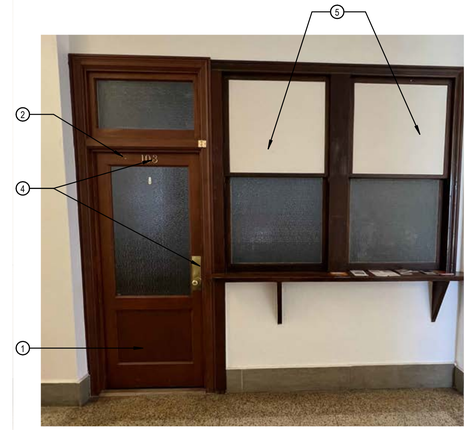
4 INT. ELEV. - DOOR 106
N.T.S

5 INT. ELEV. - DOOR 105
N.T.S



6 CORRIDOR 100-A - NORTH ELEV.
3/16" = 1'-0"

7 INT. ELEV. - DOOR 104
N.T.S



8 INT. ELEV. - DOOR 103
N.T.S

9 INT. ELEV. - DOOR 102
N.T.S

10 INT. ELEV. - DOOR 101
N.T.S

GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
B. ELEMENTS NOTED WITHIN NOTES ARE BASED UPON VISUAL OBSERVATIONS AT THE TIME OF SURVEY, NOT ALL CONDITIONS CAN BE SHOWN. THE GENERAL CONTRACTOR IS TO VERIFY ANY ADDITIONAL SUBSEQUENT DAMAGE THAT MAY HAVE OCCURED AND ADVISE THE OWNER & ARCHITECT OF ANY ADDITIONAL NECESSARY SCOPE.
C. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, & CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
D. PAINTED DOORS TO BE SANDED & STRIPPED OF 95% OF THEIR EXISTING PAINT, REPAIRED AS NECESSARY, & STAINED PER SPEC' TO MATCH.
E. ALL INTERIOR CHAIR RAILS, TRIM, & WOOD BASEBOARDS TO BE SIMILARLY STRIPPED OF EXISTING FINISH AND RESTAINED TO MATCH WINDOWS & DOORS AS SPEC'D.
F. CHIPS IN WOOD UNDER ONE-INCH MAY BE REPAIRED WITH WOOD FILLER. SAND, PREP, AND STAIN TO MATCH SURROUNDINGS.
G. STRIP 95% OF PAINT ON STILES, MULLIONS, PANELS, AND RAILS AND PROVIDE NEW STAIN AS SPEC'D.
H. PATCH/REPAIR CRACKS AND HOLES WITH PUTTY. ANY ROTTED COMPONENTS TO BE REPLACED IN FULL IF POSSIBLE WITH NEW WOOD, IN-KIND, MATCHING SIZE, SPECIES, & PROFILES.

INTERIOR TRIM TREATMENT NOTES

1 REMOVE STAIN PER GENERAL NOTES, PROVIDE NEW MATCHING STAIN PER SPEC'S
2 REPAIR HOLES IN WOOD DOOR WITH WOOD FILLER PER GENERAL NOTES
3 REPAIR CAPS ON WOOD DOOR PER GENERAL NOTES
4 REMOVE HARDWARE & CLEAN THOUROUGHLY, RETURN TO ORIGINAL FINISH & REINSTALL
5 CAREFULLY REMOVE PAINT FROM FRITTED GLASS
6 REMOVE SECONDARY DOOR, PATCH FRAME PER GENERAL NOTES AS NECESSARY
7 REPLACE GLASS WITH 1/4" SECURITY GLASS PER SPEC'S
8 REMOVE PAINT PER GENERAL NOTES, PROVIDE NEW MATCHING STAIN PER SPEC'S

LEGEND

AREA OF SIGNIFICANT DAMAGE

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REGISTERED ARCHITECT
TIMOTHY B. HOLMES
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: INT. ELEV. HISTORIC DOORS-FIRST FLOOR

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-403

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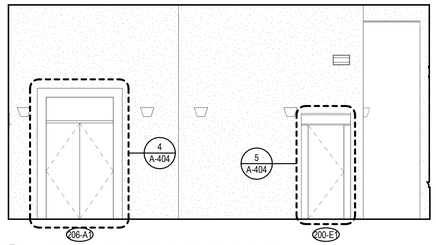
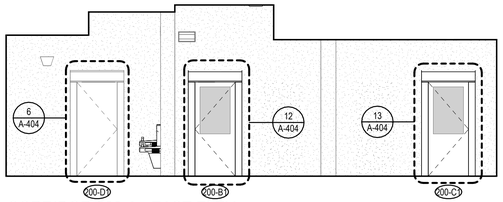
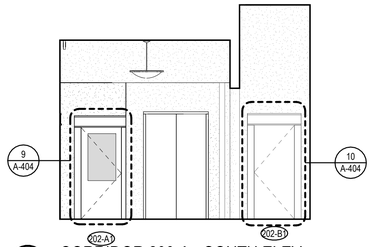


1 CORRIDOR 200-A - WEST ELEV.
3/16" = 1'-0"

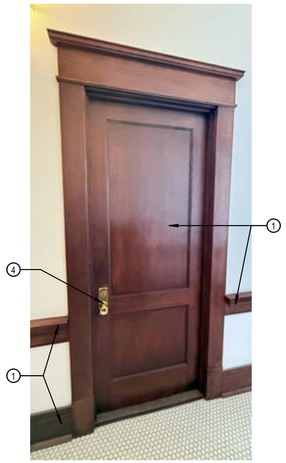


2 CORRIDOR 200-A - EAST ELEV.
3/16" = 1'-0"

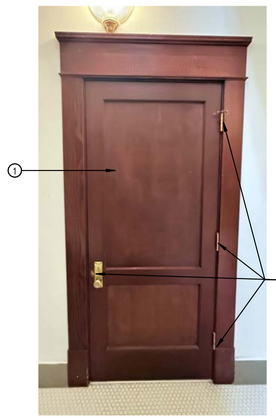


3 CORRIDOR 200-A - SOUTH ELEV.
3/16" = 1'-0"

4 DOOR 206-A1
N.T.S



5 DOOR 200-E1
N.T.S



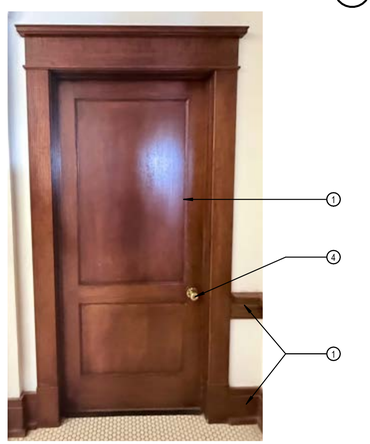
6 DOOR 200-D1
N.T.S

7 DOOR 200-B1
N.T.S

8 DOOR 200-C1
N.T.S

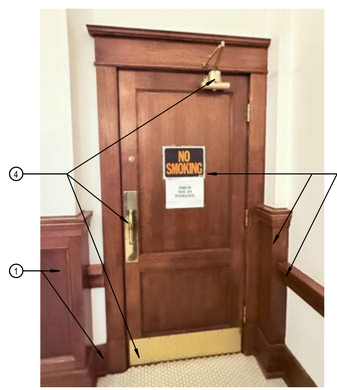
11 CORRIDOR 200-J - NORTH ELEV.
3/16" = 1'-0"

9 DOOR 202-A1
N.T.S



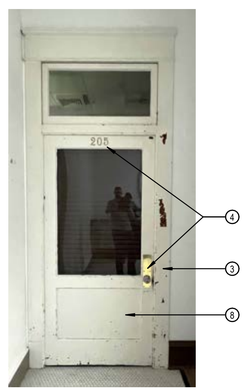
10 DOOR 202-B1
N.T.S

12 DOOR 201-A1
3/16" = 1'-0"



13 DOOR 201-A2
3/16" = 1'-0"

14 DOOR 200-G1
3/16" = 1'-0"



15 DOOR 205
3/16" = 1'-0"

GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
B. ELEMENTS NOTED WITHIN NOTES ARE BASED UPON VISUAL OBSERVATIONS AT THE TIME OF SURVEY, NOT ALL CONDITIONS CAN BE SHOWN. THE GENERAL CONTRACTOR IS TO VERIFY ANY ADDITIONAL SUBSEQUENT DAMAGE THAT MAY HAVE OCCURED AND ADVISE THE OWNER & ARCHITECT OF ANY ADDITIONAL NECESSARY SCOPE.
C. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, & CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
D. PAINTED DOORS TO BE SANDED & STRIPPED OF 95% OF THEIR EXISTING PAINT, REPAIRED AS NECESSARY, & STAINED PER SPEC' TO MATCH.
E. ALL INTERIOR CHAIR RAILS, TRIM, & WOOD BASEBOARDS TO BE SIMILARLY STRIPPED OF EXISTING FINISH AND RESTAINED TO MATCH WINDOWS & DOORS AS SPEC'D.
F. CHIPS IN WOOD UNDER ONE-INCH MAY BE REPAIRED WITH WOOD FILLER. SAND, PREP, AND STAIN TO MATCH SURROUNDINGS.
G. STRIP 95% OF PAINT ON STILES, MULLIONS, PANELS, AND RAILS AND PROVIDE NEW STAIN AS SPEC'D.
H. PATCH/REPAIR CRACKS AND HOLES WITH PUTTY. ANY ROTTED COMPONENTS TO BE REPLACED IN FULL IF POSSIBLE WITH NEW WOOD, IN-KIND, MATCHING SIZE, SPECIES, & PROFILES.

INTERIOR TRIM TREATMENT NOTES

1 REMOVE STAIN PER GENERAL NOTES, PROVIDE NEW MATCHING STAIN PER SPEC'S
2 REPAIR HOLES IN WOOD DOOR WITH WOOD FILLER PER GENERAL NOTES
3 REPAIR GAPS ON WOOD DOOR PER GENERAL NOTES
4 REMOVE HARDWARE & CLEAN THOUROUGHLY, RETURN TO ORIGINAL FINISH & REINSTALL
5 CAREFULLY REMOVE PAINT FROM FRITTED GLASS
6 REMOVE SECONDARY DOOR, PATCH FRAME PER GENERAL NOTES AS NECESSARY
7 REPLACE GLASS WITH 1/4" SECURITY GLASS PER SPEC'S
8 REMOVE PAINT PER GENERAL NOTES, PROVIDE NEW MATCHING STAIN PER SPEC'S

LEGEND

AREA OF SIGNIFICANT DAMAGE

Fisher Heck ARCHITECTS
915 SOUTH ST MARY'S STREET
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210.299.1000

REGISTERED ARCHITECT
MATTHEW B. HOLLAND
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: INT. ELEV. HISTORIC DOORS-SECOND FLOOR

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-404

3/6/2026 3:27:49 PM

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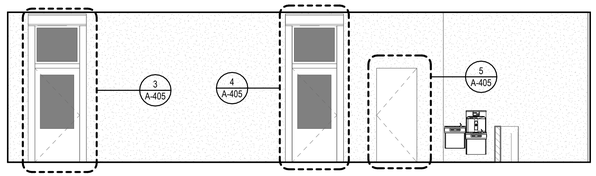
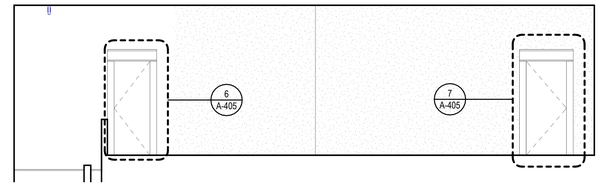
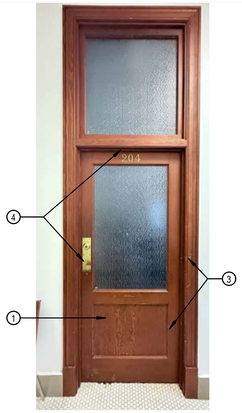


1 CORRIDOR 200-K - WEST ELEV.
3/16" = 1'-0"



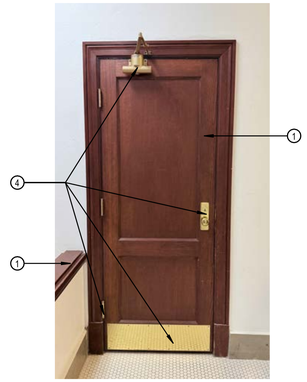
2 CORRIDOR 200-K - EAST ELEV.
3/16" = 1'-0"

3 DOOR 203
1 1/2" = 1'-0"

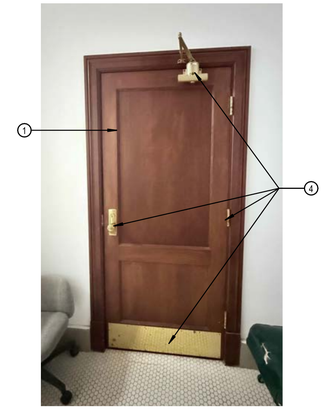


4 DOOR 204
1 1/2" = 1'-0"

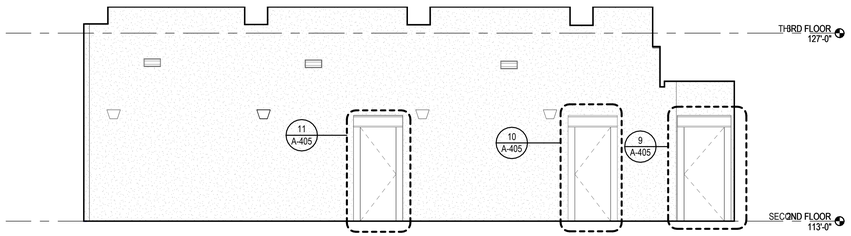
5 DOOR 200-I1
1 1/2" = 1'-0"



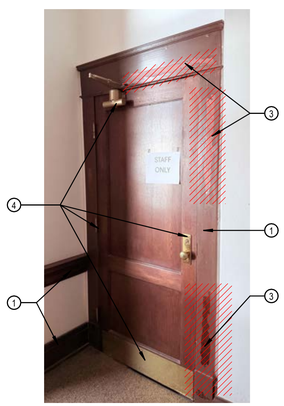
6 DOOR-206-A3
1 1/2" = 1'-0"



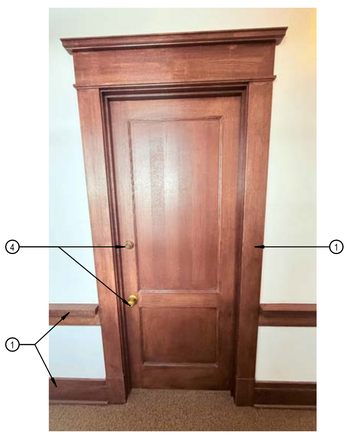
7 DOOR-206-A4
1 1/2" = 1'-0"



8 CORRIDOR 200-J - SOUTH ELEV.
3/16" = 1'-0"



9 DOOR 206-A2
1 1/2" = 1'-0"



10 DOOR 200-F1
1 1/2" = 1'-0"

11 DOOR 206-B1
1 1/2" = 1'-0"

GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.
B. ELEMENTS NOTED WITHIN NOTES ARE BASED UPON VISUAL OBSERVATIONS AT THE TIME OF SURVEY, NOT ALL CONDITIONS CAN BE SHOWN. THE GENERAL CONTRACTOR IS TO VERIFY ANY ADDITIONAL SUBSEQUENT DAMAGE THAT MAY HAVE OCCURED AND ADVISE THE OWNER & ARCHITECT OF ANY ADDITIONAL NECESSARY SCOPE.
C. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, & CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
D. PAINTED DOORS TO BE SANDED & STRIPPED OF 95% OF THEIR EXISTING PAINT, REPAIRED AS NECESSARY, & STAINED PER SPEC' TO MATCH.
E. ALL INTERIOR CHAIR RAILS, TRIM, & WOOD BASEBOARDS TO BE SIMILARLY STRIPPED OF EXISTING FINISH AND RESTAINED TO MATCH WINDOWS & DOORS AS SPEC'D.
F. CHIPS IN WOOD UNDER ONE-INCH MAY BE REPAIRED WITH WOOD FILLER. SAND, PREP, AND STAIN TO MATCH SURROUNDINGS.
G. STRIP 95% OF PAINT ON STILES, MULLIONS, PANELS, AND RAILS AND PROVIDE NEW STAIN AS SPEC'D.
H. PATCH/REPAIR CRACKS AND HOLES WITH PUTTY. ANY ROTTED COMPONENTS TO BE REPLACED IN FULL IF POSSIBLE WITH NEW WOOD, IN-KIND, MATCHING SIZE, SPECIES, & PROFILES.

INTERIOR TRIM TREATMENT NOTES

1 REMOVE STAIN PER GENERAL NOTES, PROVIDE NEW MATCHING STAIN PER SPEC'S
2 REPAIR HOLES IN WOOD DOOR WITH WOOD FILLER PER GENERAL NOTES
3 REPAIR GAPS ON WOOD DOOR PER GENERAL NOTES
4 REMOVE HARDWARE & CLEAN THOUROUGHLY, RETURN TO ORIGINAL FINISH & REINSTALL
5 CAREFULLY REMOVE PAINT FROM FRITTED GLASS
6 REMOVE SECONDARY DOOR, PATCH FRAME PER GENERAL NOTES AS NECESSARY
7 REPLACE GLASS WITH 1/4" SECURITY GLASS PER SPEC'S
8 REMOVE PAINT PER GENERAL NOTES, PROVIDE NEW MATCHING STAIN PER SPEC'S

LEGEND

AREA OF SIGNIFICANT DAMAGE

Fisher Heck ARCHITECTS
915 SOUTH ST MARY'S STREET
SAN ANTONIO TEXAS
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210.226.1000

REGISTERED ARCHITECT
MATTHEW B. HOLLAND
25326
STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: INT. ELEV. HISTORIC DOORS-SECOND FLOOR

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-405

3/6/2026 3:27:59 PM

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DOOR SCHEDULE

NUMBER	LEVEL	TYPE	PANEL			FRAME		DETAILS			HARDWARE		COMMENTS
			HEIGHT	GLAZING	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	THRESHOLD	SET	ELECTRIFIED	
001-1	BASEMENT	B	7'-0"	-	WD-1	1	WD-1	2/A-600	2/A-600	5/A-602	201		[11]
001-2	BASEMENT	B	6'-6"	-	HM	1	HM				101C		[1] [2]
002-1	BASEMENT	B	6'-6"	-	HM	1	HM	2/A-600	2/A-600	5/A-602	207		[11]
002-2	BASEMENT	B	6'-6"	-	HM	1	HM	2/A-600	2/A-600	5/A-602	201		[11]
003-1	BASEMENT	B	7'-0"	-	WD-1	1					101C		[1] [2]
003-2	BASEMENT	B	3'-10"	-	WD-1	1					001		NOT IN SCOPE
004	BASEMENT	B	6'-4"	-	WD-1	1					731R		[1] [2]
006	BASEMENT	B	6'-6"	-	HM	1	HM	2/A-600	2/A-600	5/A-602	207		[11]
100-A1	FIRST FLOOR	C	8'-0"	G1	WD-1	2	WD-1	3/A-600	3/A-600	6/A-602	A714	Y	[11]
100-A2	FIRST FLOOR	C	8'-0"	G1	WD-1	2	WD-1	3/A-600	3/A-600	6/A-602	714	Y	[11]
100-A3	FIRST FLOOR	C	8'-0"	<varies>	<varies>	2	<varies>	3/A-600	3/A-600	6/A-602	714	Y	[11]
100-A4	FIRST FLOOR	C	8'-0"	G1	WD-1	2	WD-1	3/A-600	3/A-600	6/A-602	714	Y	[11]
100-B1	FIRST FLOOR	C	9'-1"	G2	WD-1	2		1	2		801		[1] [2] [3] [4] [10]
100-C1	FIRST FLOOR	D	9'-1"	G2	WD-1	2					801		[1] [2] [3] [4] [10]
100-D	FIRST FLOOR		6'-4"	-	WD-1	1					201C		[1] [2] [12]
100-E1	FIRST FLOOR		7'-0"	-	WD-1	1					201C		[1] [2] [3] [4] [12]
101	FIRST FLOOR	D	7'-0"	<varies>		2					107		[1] [2] [3] [4]
102	FIRST FLOOR	D	9'-2"	G2	WD-1	1					C201C	Y	[1] [2] [3] [4]
102-B1	FIRST FLOOR	A	7'-2"			1					203		[1] [2]
102-C1	FIRST FLOOR	A	7'-2"			1					203		[1] [2]
102-D1	FIRST FLOOR	A	7'-0"	G2		1					107		[1] [2]
102-D2	FIRST FLOOR	A	7'-0"	-		2					107		[1] [2] [7]
102-E1	FIRST FLOOR	A	7'-0"	G2		1					203		[1] [2]
103	FIRST FLOOR	D	9'-2"	G2	WD-1	1					C201C	Y	[1] [2] [3] [4] [7]
103-D2	FIRST FLOOR	A	9'-2"	-		1					201C		[1] [2] [3] [4] [7]
103-D3	FIRST FLOOR	A	7'-0"	-		2					201C		PHASE 1
104	FIRST FLOOR		7'-0"								002		PHASE 1
104-B1	FIRST FLOOR	A	7'-0"			2					501C		PHASE 1
104-C1	FIRST FLOOR	A	7'-0"	G2		1		1	2		C207	Y	PHASE 1
104-D1	FIRST FLOOR	A	7'-1"		HM	1	HM						PHASE 1
105	FIRST FLOOR	D	9'-2"	G2	WD-1	1					C201C	Y	[1] [2] [3] [4] [7] [10]
105-B1	FIRST FLOOR	A	6'-8"			1					201C		[1] [3] [4]
105-C1	FIRST FLOOR	A	6'-8"			1					201C		NOT IN SCOPE
106	FIRST FLOOR	D	9'-2"	G2	WD-1	1					C201C	Y	[1] [2] [3] [4] [7] [10]
106-A1	FIRST FLOOR	A	6'-10"			1					501C		[1] [2]
107	FIRST FLOOR	D	<varies>	<varies>	<varies>	1					C201C	Y	[1] [2]
107-B	FIRST FLOOR	A	7'-0"	G2		1							[11]
108	FIRST FLOOR	D	7'-0"	G2		1					C201C	Y	[1] [2] [3] [4] [7] [10]
108-A1	FIRST FLOOR		7'-0"	G2		1							[11]
108-B1	FIRST FLOOR	A	7'-0"	G2		1					103S		[1] [2] [7]]
108-C1	FIRST FLOOR	A	7'-0"	G2		1					103		[1] [2] [7]
108-D1	FIRST FLOOR	A	7'-0"			1					103		[1] [2]
108-E1	FIRST FLOOR	A	6'-10"			1					203		[1] [2]
108-F	FIRST FLOOR		7'-0"			1							[1] [2] [3] [4] [12]
108-H	SECOND FLOOR		7'-0"			1							
200-B1	SECOND FLOOR	D	7'-0"	G2		1		1	2		801		[1] [2] [7] [12]
200-C1	SECOND FLOOR	D	7'-0"	G2		1		1	2		801		[1] [2] [7] [12]
200-D1	SECOND FLOOR	A	7'-0"	G2		1					203S		[1] [2]
200-E1	SECOND FLOOR	A	7'-0"			1					201		[1] [2]
200-F1	SECOND FLOOR	A	7'-0"			1					201C		[1] [2]
200-G1	SECOND FLOOR	A	9'-2"	-		1					401C		[1] [2]
200-H1	SECOND FLOOR	A	7'-0"	-	WD-1	1	WD-1				103		PHASE 1
200-I1	SECOND FLOOR	A	7'-0"	-	WD-1	1					201C		[1] [2]
201-A	SECOND FLOOR	A	7'-0"	-		2					C201	Y	[1] [2] [3] [4] [7] [10]
201-B1	SECOND FLOOR	A	7'-0"	-		2					201C		[1] [2] [3] [4] [7]
201-C	SECOND FLOOR	A	7'-0"	G2		1							[1] [2]
202-A1	SECOND FLOOR	D	6'-10"	-	WD-1	1		1	2		C201		[1] [2] [3] [4] [7] [10] [12]
202-B1	SECOND FLOOR	A	7'-0"	G2		1					C207	Y	[1] [2] [10]
202-B2	SECOND FLOOR	A	7'-2"			1					103		[1] [2]
202-C1	SECOND FLOOR	A	7'-0"	G2		1					203		[1] [2]
202-D1	SECOND FLOOR	A	7'-2"			1					203		[1] [2]
203	SECOND FLOOR	A	10'-2"	-		1					C207	Y	[1] [2]
204-A1	SECOND FLOOR	A	10'-2"	-		1					103		[1] [2] [3] [4] [7] [10]
204-B1	SECOND FLOOR	A	7'-0"	-	WD-1	1		1	2		341C		[1] [2] [3] [4] [12]
204-C1	SECOND FLOOR		7'-0"	G2		1							
205	SECOND FLOOR	D	9'-2"	-		1					103S		[1] [2] [3] [4] [7] [10]
205-B1	SECOND FLOOR	A	7'-0"	G2		1					203S		PHASE 1
206-A1	SECOND FLOOR	A	9'-1"			2					700C		[1] [2] [3] [4] [7] [10]
206-A2	SECOND FLOOR	A	7'-0"	G2		1					701		[1] [2] [3] [4] [10]
206-A3	SECOND FLOOR	A	7'-0"			1					701		[1] [2] [3] [4] [10]
206-A4	SECOND FLOOR	A	7'-0"	G2		1					701C		[1] [2] [3] [4] [10]
206-B1	SECOND FLOOR	A	7'-0"			1					103		[1] [2]
206-B2	SECOND FLOOR	A	7'-0"			1					103		[1] [2]
206-C1	SECOND FLOOR	A	7'-0"			1					103		[1] [2]
300-B	THIRD FLOOR	A	6'-10"			1					341		[1] [2] [10]
300-C	THIRD FLOOR	A	6'-10"	-	WD-1	1					341		[1] [2] [10]
301	THIRD FLOOR	D	6'-10"	-	WD-1	1					C201	Y	[1] [2] [3] [4] [7]
301-B	THIRD FLOOR		7'-0"	Wood - Veneers	Wood - Veneers	1	Default						[1] [2]
302-A	THIRD FLOOR	D	6'-10"	-	WD-1	1					C201	Y	[1] [2] [3] [4] [7]
302-B	THIRD FLOOR	A	6'-10"			1					103S		[1] [2] [3] [4]
303-A	THIRD FLOOR	D	7'-0"	Wood - Veneers	Wood - Veneers	1	Default	1	2		C201	Y	[1] [2] [3] [4] [7] [12]
303-B	THIRD FLOOR	A	6'-10"			1					103		[1] [2]
304-A	THIRD FLOOR	A	6'-10"	-	WD-1	1					C201	Y	[1] [2]
304-B	THIRD FLOOR	A	6'-10"			1					203		[1] [2] [3] [4]
304-C	THIRD FLOOR		7'-0"	Wood - Veneers	Wood - Veneers	1	Default						[11]
306	THIRD FLOOR	A	7'-0"	-	WD-1	1					C201C	Y	NOT IN SCOPE
310-A	THIRD FLOOR	A	6'-8"			1					C207	Y	NOT IN SCOPE
311-A	THIRD FLOOR	A	6'-10"			1					003		NOT IN SCOPE
311-C	THIRD FLOOR	A	6'-2"			1					C201	Y	NOT IN SCOPE
312	THIRD FLOOR	A	6'-10"			1					003		NOT IN SCOPE

LEGEND

DOOR MATERIAL TYPES

WD-1 - SOUTHERN YELLOW PINE

HM - HOLLOW METAL

AL/GL - ALUMINUM & GLASS

TG - TEMPERED GLASS

DOOR FRAME MATERIAL TYPES

HM - HOLLOW METAL

AL - ALUMINUM

WD - SOUTHERN YELLOW PINE

STL - STEEL

GLAZING TYPES

G1 - 1/4" CLEAR TEMPERED GLASS W/ SOLAR FILM, VLT: 72% OR HIGHER, VLR: 9% OR LESS

G2 - ------

DOOR TREATMENT REMARKS

1. FILL NAIL HOLES W/ WOOD FILLER TO MATCH ORIGINAL WOOD. RE: SPEC'S.
2. PAINT OR STAIN TO BE SANDED & STRIPPED TO 95% REMOVAL, EVALUATE CONDITIONS OF WOOD BENEATH AND TREAT PER GENERAL NOTES. NEW STAIN TO BE PROVIDED BOTH SIDES.
3. REPAIRE CHIPS WITH WOOD FILLER. SAND, PREP, AND STAIN TO MATCH SURROUNDINGS.
4. PATCH/REPAIR SMALL CRACKS AND HOLES WITH PUTTY.
5. REPLACE ROTTED COMPONENTS IN FULL IF POSSIBLE WITH NEW WOOD, IN-KIND, MATCHING SIZE, SPECIES, & PROFILES, RE: SPEC'S.
6. RESET GLASS IN SASH & REGLAZE.
7. EVALUATE LITE, BROKEN OR CRACKED GLASS TO BE REPLACED AS SPEC'D, ACRYLIC PANES TO BE REPLACED WITH GLASS AS SPEC'D, ANY PAINT TO BE STRIPPED FROM PANES, MATCH FRITTED GLASS IN-KIND.
8. REMOVE AFFIXED ACCESSORIES & PRESERVE FOR REUSE.
9. MISSING COMPONENTS TO BE RECONSTRUCTED WITH NEW WOOD, IN-KIND, MATCHING SIZE, SPECIES, & PROFILES OF SURVIVING SIMILAR COMPONENTS, RE: SPEC'S
10. EVALUATE HARDWARE FOR PUSH/PULL COMPLIANCE PER TAS
11. NEW DOOR AS SPEC'D
12. RELOCATED DOOR, ADJUST HARDWARE AS NEEDED

GENERAL NOTES

A. THESE DOCUMENTS SHOULD NOT BE CONSIDERED AS A SURVEY OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN DOCUMENTS AND FIELD CONDITIONS BEFORE COMMENCING ANY WORK AND REQUEST CLARIFICATION.

B. ELEMENTS NOTED WITHIN NOTES ARE BASED UPON VISUAL OBSERVATIONS AT THE TIME OF SURVEY, NOT ALL CONDITIONS CAN BE SHOWN. THE GENERAL CONTRACTOR IS TO VERIFY ANY ADDITIONAL SUBSEQUENT DAMAGE THAT MAY HAVE OCCURED AND ADVISE THE OWNER & ARCHITECT OF ANY ADDITIONAL NECESSARY SCOPE.

C. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, & CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

D. PAINTED WINDOWS TO BE SANDED & STRIPPED OF 95% OF THEIR EXISTING PAINT, REPAIRED AS NECESSARY, NEW PAINT TO BE PROVIDED AT EXTERIOR & INTERIOR TO RECEIVE NEW STAIN PER SPEC'S.

E. CHIPS IN WOOD UNDER ONE-INCH MAY BE REPAIRED WITH WOOD FILLER. SAND, PREP, AND STAIN TO MATCH SURROUNDINGS.

F. STRIP 95% OF PAINT ON STILES, MULLIONS, PANELS, AND RAILS AND PROVIDE NEW STAIN AS SPEC'D.

G. PATCH/REPAIR CRACKS AND HOLES WITH PUTTY. ANY ROTTED COMPONENTS TO BE REPLACED IN FULL IF POSSIBLE WITH NEW WOOD, IN-KIND, MATCHING SIZE, SPECIES, & PROFILES.

H. STRIP 95% OF EXISTING PAINT, AND PREPARE CASING, STOOL, AND APRON TO RECEIVE NEW COAT OF STAIN AS SPEC'D.

I. STRIP 95% OF EXISTING PAINT, AND PREPARE HEADS, JAMBS, AND SILLS TO RECEIVE NEW STAIN AS SPEC'D.

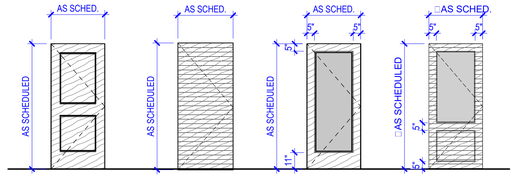
J. ANY & ALL REPLACED EXTERIOR GLASS TO BE 1/4" CLEAR TEMPERED GLASS W/ SOLAR FILM, VLT: 72% OR HIGHER, VLR: 9% OR LESS, MATCH EXIST. IN-KIND

K. ANY & ALL REPLACED INTERIOR GLASS TO BE 1/4" CLEAR TEMPERED GLASS U.N.O.

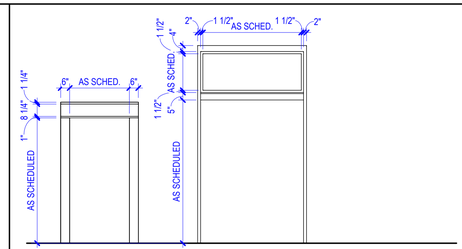
L. CAREFULLY REMOVE WINDOW HARDWARE & DOCUMENT THEIR LOCATIONS. REPAIR AS REQUIRED, CLEAN & REFINISH AS CLOSE TO THE ORIGINAL FINISH AS POSSIBLE & REINSTALL. ESNURE PROPER OPERATION.

M. CAREFULLY REMOVE DOOR HARDWARE & RETURN TO COUNTY, INSTALL NEW HARDWARE PER SPEC'S

PANEL TYPES

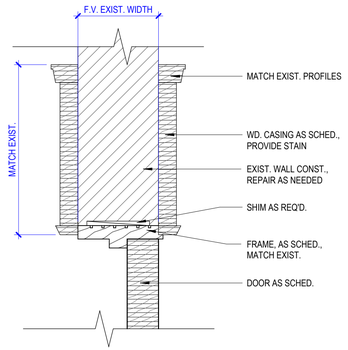


FRAME TYPES

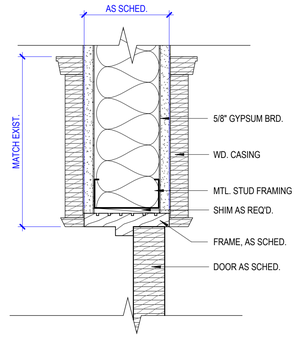


NOTE:
RECONSTRUCTED FRAMES TO MATCH SPECIES, DIMENSIONS, & PROFILES OF SURVIVING EXAMPLES

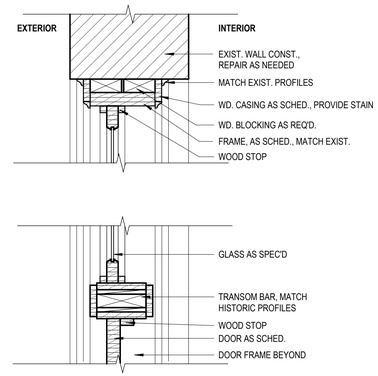
NOTE: VERIFY ALL OPENING DIMENSIONS IN FIELD PRIOR TO FABRICATION



1 NEW DOOR HEAD DTL. @ EXIST. WALL (JAMB SIM.)
3" = 1'-0"



2 NEW DOOR HEAD DTL. @ NEW WALL (JAMB SIM.)
3" = 1'-0"



3 NEW DOOR HEAD DTL. @ EXT. WALL
1 1/2" = 1'-0"

Fisher Heck ARCHITECTS
915 SOUTH ST MARY'S STREET
SAN ANTONIO, TEXAS
FISHERHECK.COM
210.349.9366

REGISTERED ARCHITECT MATTHEW B. HOLLAND 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: DOOR SCHEDULE

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-600

3/6/2026 3:28:02 PM

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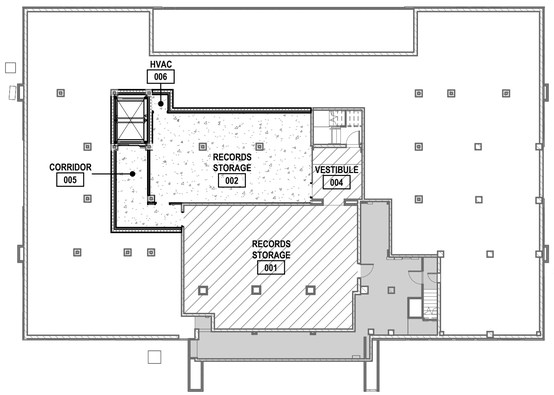
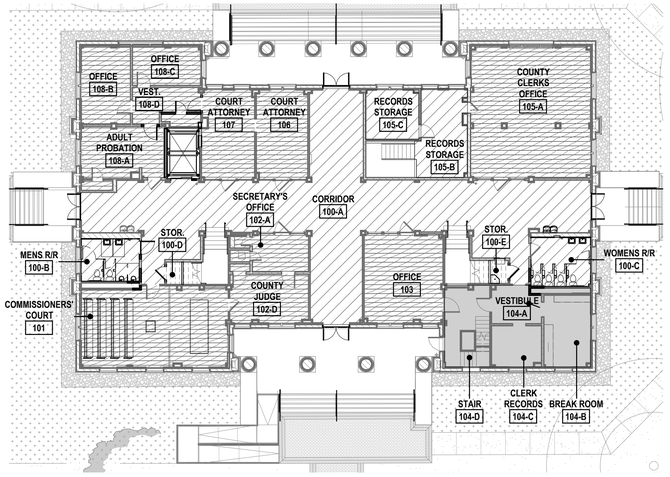


1 BASEMENT FLOOR FINISH PLAN
1/16" = 1'-0"



2 FIRST FLOOR FINISH PLAN
1/16" = 1'-0"

3 SECOND FLOOR FINISH PLAN
1/16" = 1'-0"

4 THIRD FLOOR FINISH PLAN
1/16" = 1'-0"

GENERAL NOTES

1. ALL COLOR SELECTIONS ARE SUBJECT TO FIELD MOCKUP & THE ARCHITECT'S APPROVAL.

FINISH TREATMENT REMARKS

1. CLEAN / RESTORE / REPAIR FLOORING AS NECESSARY IN-KIND TO SURROUNDINGS
2. CLEAN, REGROUT, & WAX EXISTING TILE
3. CLEAN & WAX EXISTING TERRAZZO FLOORS
4. REPAIR / PATCH / REPAINT PLASTER AT WALLS AND/OR CEILING SURFACES.
5. REPLACE DAMAGED A.C.T. IN-KIND
6. REMOVE STAIN FROM WOOD BASE & RESTAIN TO MATCH DOOR & WINDOW TRIMS
7. REMOVE STAIN FROM CHAIR RAILS & RESTAIN TO MATCH DOOR & WINDOW TRIMS
8. REMOVE STAIN FROM PICTURE RAILS & RESTAIN TO MATCH DOOR & WINDOW TRIMS

LEGEND

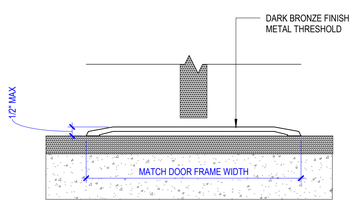
- EXISTING FLOORS TO REPAIR AND/OR RESTORE AS NECESSARY IN-KIND
- FLR-1 - SEALED CONCRETE
- FLR-2 - CARPET TILE
- FLR-3 - TERRAZZO
- NOT IN SCOPE/PHASE
- FLR-4 - OAK WOOD PLANKS
- FLR-5 - PORCELIN HEXTILE

ROOM FINISH SCHEDULE

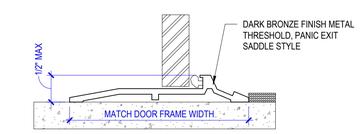
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	CEILING MATERIAL	COMMENTS
BASEMENT									
001	RECORDS STORAGE	FLR-1	B-3	W-1	W-1	W-1	W-1	C-1	
002	RECORDS STORAGE	FLR-1	B-3	W-1	W-1	W-1	W-1	C-4	
004	VESTIBULE	FLR-1	B-3	W-1	W-1	W-1	W-1	C-1	
005	CORRIDOR	FLR-1	B-3	W-1	W-1	W-1	W-1	C-4	
006	HVAC	FLR-1	B-3	W-1	W-1	W-1	W-1	C-4	
FIRST FLOOR									
100-A	CORRIDOR	FLR-3	B-2	W-2	W-2	W-2	W-2	C-2	[1] [3] [4]
100-B	MENS R/R	FLR-5	-	W-3	W-3	W-3	W-3	C-1	[1] [2] [4]
100-C	WOMENS R/R	FLR-5	-	W-3	W-3	W-3	W-3	C-1	[1] [2] [4]
100-D	STOR.	FLR-1	B-3	W-1	W-1	W-1	W-1	C-4	
100-E	STOR.	FLR-1	B-3	W-1	W-1	W-1	W-1	C-4	
101	COMMISSIONERS' COURT	FLR-4	B-1	W-1	W-1	W-1	W-1	C-3	[4] [6] [7]
102-A	SECRETARY'S OFFICE	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [6] [7]
102-B	STOR.	FLR-4	-	W-1	W-1	W-1	W-1	C-1	[1] [4]
102-C	STOR.	FLR-4	-	W-1	W-1	W-1	W-1	C-1	[1] [4]
102-D	COUNTY JUDGE	FLR-4	B-1	W-1	W-1	W-1	W-1	C-2	[4] [6] [7]
102-E	STOR.	FLR-4	-	W-1	W-1	W-1	W-1	C-1	[1] [4]
103	OFFICE	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [6] [7]
104-A	VESTIBULE								RE: PHASE I
104-B	BREAK ROOM								RE: PHASE I
104-C	CLERK RECORDS								RE: PHASE I
104-D	STAIR								RE: PHASE I
105-A	COUNTY CLERKS OFFICE	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6] [7]
105-B	RECORDS STORAGE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [5]
105-C	RECORDS STORAGE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [5]
106	COURT ATTORNEY	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
107	COURT ATTORNEY	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
107-B	ELEVATOR	-							RE: SPEC'S
108-A	ADULT PROBATION	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
108-B	OFFICE	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
108-C	OFFICE	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
108-D	VEST.	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
108-E	STOR.	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4]
108-F	I.T.								
SECOND FLOOR									
200-A	CORRIDOR	FLR-5	B-1, B-2	W-2	W-2	W-2	W-2	C-2	[1] [2] [4] [6]
200-B	MENS R/R	FLR-5	-	W-3	W-3	W-3	W-3	C-2	[1] [2] [4]
200-C	WOMENS R/R	FLR-5	-	W-3	W-3	W-3	W-3	C-2	[1] [2] [4]
200-D	JANITORS CLOSET	FLR-5	-	W-1	W-1	W-1	W-1	C-1	[1] [4]
200-E	STORAGE	FLR-2	-	W-1	W-1	W-1	W-1	C-1	[1] [4]
200-F	MECH.	FLR-1	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4]
200-G	INMATE STAIR	-	-					-	
200-H	WITNESS ROOM								RE: PHASE I
200-I	MECH.	FLR-1	B-1	W-1	W-1	W-1	W-1	C-1	[1]
200-J	CORRIDOR	FLR-5	B-2	W-2	W-2	W-2	W-2	C-2	[4] [6] [7]
200-K	CORRIDOR	FLR-5	B-2	W-2	W-2	W-2	W-2	C-2	[1] [2] [4] [6] [7]
201-A	OFFICE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4] [5] [6] [7]
201-B	MECH.	FLR-1	B-1	W-1	W-1	W-1	W-1	C-4	[1]
201-C	STOR.								
202-A	DISTRICT CLERKS OFFICE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
202-B	OFFICE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
202-C	STOR.	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4]
202-D	STOR.	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4]
202-E	ELEV.	FLR-1	B-1	W-1	W-1	W-1	W-1	C-4	
203	FILE STORAGE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
204-A	JURY DELIBERATION ROOM	FLR-4	B-1	W-1	W-1	W-1	W-1	C-1	[4] [5] [6]
204-B	R/R	FLR-5	-	W-3	W-3	W-3	W-3	C-1	[1] [2] [4] [5]
205-A	CONFERENCE ROOM		B-1						RE: PHASE I
205-B	MECH.	FLR-1	B-1	W-1	W-1	W-1	W-1	C-4	[1] [4]
206-A	DISTRICT COURTROOM	FLR-4	B-1	W-2	W-2	W-2	W-2	C-3	[4] [6] [7] [8]
206-B	CONFERENCE ROOM	FLR-2	B-1	W-1	W-1	W-1	W-1	C-2	[4] [5] [6]
206-C	WITNESS ROOM	FLR-2	B-1	W-1	W-1	W-1	W-1	C-2	[4] [5] [6]
THIRD FLOOR									
300-A	BREAK ROOM	FLR-5	B-2	W-1	W-1	W-1	W-1	C-1	[1] [2] [4] [5]
300-B	UNISEX R/R	FLR-5	-	W-3	W-3	W-3	W-3	C-1	[1] [2] [4] [5]
300-C	ADA UNISEX R/R	FLR-5	-	W-3	W-3	W-3	W-3	C-1	[1] [2] [4] [5]
301	AUDITORS OFFICE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4] [5] [6]
301-B	MECH.								
302	AUDITORS OFFICE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4] [5] [6]
303-A	TREASURERS OFFICE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4] [5] [6]
303-B	TREASURERS OFFICE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4] [5] [6]
303-C	ELEV.	FLR-1	B-1	W-1	W-1	W-1	W-1	C-4	
304-A	AUDITORS PURCHASING OFFICE	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4] [5] [6]
304-B	STORAGE								
304-C	MECH.	FLR-2	B-1	W-1	W-1	W-1	W-1	C-1	[1] [4]
305	INMATES STAIR	-	-					C-4	
306	ROOF VESTIBULE	FLR-1	-	W-1	W-1	W-1	W-1	C-4	
310-A	RECORDS STORAGE								RE: PHASE I
311	CORRIDOR								NOT IN SCOPE
312	STORAGE								NOT IN SCOPE
313	MECH.								NOT IN SCOPE

MATERIAL SCHEDULE

TYPE MARK	DESCRIPTION	PRODUCT INDENTIFICATION	MANUFACTURER	COMMENTS:
FLOOR				
FLR-1	SEALED CONCRETE			
FLR-2	CARPET TILE		MOHAWK	
FLR-3	EPOXY TERRAZZO FLOOR		KEY RESIN COMPANY	MATCH EXISTING BLEND IN-KIND
FLR-4	OAK WOOD PLANKS			MATCH PHASE I
FLR-5	PORCELAIN HEXTILE			
BASE				
B-1	1 X 6 SOLID WOOD BASE, MATCH EXISTING PROFILE			SOUTHERN YELLOW PINE, MATCH EXISTING STAIN IN-KIND
B-2	1 X 6 GRANITE BASE			
B-3	6" RUBBER BASE		ROPPE	
WALLS				
W-1	EXIST. GYPSUM WALL BOARD, PAINT			
W-2	EXIST. GYPSUM WALL BOARD W/ WOOD CHAIR RAIL, PAINT & STAIN			
W-3	EXIST. GYPSUM WALL BOARD W/ PORCELAIN TILE, PAINT			
PAINT				
P-1	WHITE PAINT		SHERWIN WILLIAMS	
CEILING				
C-1	ACOUSTIC CEILING TILE 2X2		ARMSTRONG	
C-2	GYPSUM WALL BOARD			MATCH EXISTING IN-KIND
C-3	ACOUSTIC GYPSUM WALL BOARD		BASWA	
C-4	(OPEN TO STRUCTURE)			



5 TRANSITION DETAIL
6" = 1'-0"



6 EXTERIOR TRANSITION
6" = 1'-0"

Fisher Heck ARCHITECTS
915 SOUTH ST MARY'S STREET
SAN ANTONIO, TEXAS
FISHERHECK.COM
210.299.1500

REGISTERED ARCHITECT MARK B. HOLMES 25326 STATE OF TEXAS

03/06/2026

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FINISH FLOOR PLAN & FINISH SCHEDULE

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: A-602

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REBAR LAP SPLICE TABLE NOTES:

RL-1 "db" DENOTES BAR DIAMETER.

RL-2 ALL SPLICES SHALL BE CLASS B UNLESS OTHERWISE NOTED.

RL-3 VALUES APPLY TO ALL BARS WITH MINIMUM CONCRETE COVER 1.0db AND MINIMUM CENTER TO CENTER SPACING OF 2.0db.

RL-4 FOR LIGHTWEIGHT CONCRETE, MULTIPLY BY 1.3.

RL-5 THE CHART ABOVE IS A SIMPLIFIED AND CONSERVATIVE METHOD FOR MEETING THE REQUIREMENTS OF ACI 12.2.2. THE CONTRACTOR MAY SUBMIT A DETAILED REBAR SPLICING PLAN IN ACCORDANCE WITH ACI 12.2.2 FOR APPROVAL.

DEMOLITION NOTES:

DN-1 THE CONTRACTOR MUST REVIEW ALL WORK IN PROGRESS TO ASCERTAIN THAT ACTUAL STRUCTURAL CONDITIONS ENCOUNTERED REFLECT THOSE SHOWN ON THE DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER.

DN-2 DURING DEMOLITION CONTRACTOR SHALL IDENTIFY STRUCTURAL FRAMING AND LOAD PATHS IN AREA OF DEMOLITION TO PREVENT ACCIDENTAL COLLAPSE.

DN-3 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL BRACING AND SHORING REQUIRED TO INSURE THE SAFETY AND STRUCTURAL INTEGRITY OF THE PROJECT DURING DEMOLITION OPERATIONS.

DN-4 CONTRACTOR SHALL INSPECT EXISTING STRUCTURAL ELEMENTS AND REPAIR OR REPLACE THOSE FOUND TO BE STRUCTURALLY UNSOUND AS DIRECTED BY STRUCTURAL ENGINEER OF RECORD.

DN-5 WHERE EXISTING CONCRETE IS NOTED TO BE REMOVED, WORK SHALL BE INITIATED BY MEANS OF SAW CUTS AT LEAST 1" DEEP OR BY PERFORATING WITH CLOSELY SPACED THRU-DRILLED HOLES. IF REINFORCING IS TO REMAIN, INITIATE WITH SAW CUTS APPROXIMATELY 3/4" DEEP. DEMOLITION SHALL PROCEED USING HAND HELD ROTARY TOOLS AND/OR LOW IMPACT CHIPPING DEVICES FOR 1'-0" ADJACENT TO CUT. NO LARGE JACK HAMMERS OR SIMILAR HEAVY IMPACT EQUIPMENT WILL BE PERMITTED ADJACENT TO CUT. THERE IS NO RESTRICTION ON EQUIPMENT AFTER THE 1'-0" ADJACENT TO CUT.

DN-6 INITIATE SAWCUTTING THRU WALLS AND SLABS WITH 3" CORE HOLES AT ALL CORNERS TO PREVENT OVERCUTS. OVERCUTS ARE NOT PERMITTED.

DN-7 REPLACE ALL CONCRETE COVERAGE, REMOVED TO INSTALL NEW STEEL MEMBERS, TO MAINTAIN FIRE PROTECTION OF MAIN STRUCTURAL FRAMING.

DN-8 ALL TEMPORARY SHORING IS TO BE DESIGNED AND DETAILED BY A LICENSED PROFESSIONAL ENGINEER, SIGNED AND STAMPED DRAWINGS ARE TO BE SUBMITTED TO THE A/E TEAM FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND CONSTRUCTION.

STEEL FRAMING NOTES:

SF-1 WIDE FLANGE STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, FY=50 KSI. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B, FY=35. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, FY=46 KSI, ALL OTHERS SHALL CONFORM TO ASTM A36, FY=36 KSI. CONNECTIONS SHALL CONFORM TO REQUIREMENTS OF AISC.

SF-2 NOT USED.

SF-3 NOT USED.

SF-4 ROOF DECK IS 1-1/2"-22 GAUGE TYPE B RIB DECK COMPLYING WITH STEEL DECK INSTITUTE; WITH MINIMUM I=.183 IN. 4/FT., SN=.192 IN. 3/FT. ATTACH TO SUPPORTING MEMBERS BY PLUG WELDING DIRECTLY THROUGH BOTTOM OF THE RIBS AT EVERY SUPPORT. WELD EACH SHEET AT BOTH SIDES AND AT OTHER RIBS SO THAT SPACING BETWEEN WELDS ACROSS THE WIDTH OF EACH SHEET DOES NOT EXCEED 18", IN ACCORDANCE WITH STEEL DECK INSTITUTE'S SPECIFICATIONS.

SF-5 NOT USED.

SF-6 WHERE METAL DECK IS SUPPORTED CONTINUOUSLY WELD DECK TO STEEL SUPPORT AT 12"o.c.

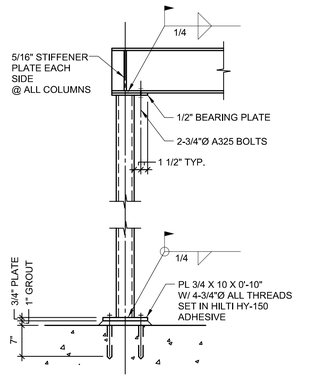
SF-7 WHERE FLOOR DECK CHANGES DIRECTIONS, PROVIDE DECK SUPPORT L 3 X 2-1/2 X 3/16 (L.L.H.) ACROSS ENDS OF SEATED JOISTS.

SF-8 NOT USED.

SF-9 STRUCTURAL FRAMING CONNECTIONS SHALL BE SEATED COLUMN CAPS, CLIP ANGLES OR WEB PLATES AS INDICATED ON DETAILS. USE A325 HIGH STRENGTH BOLTS OR WELDS SUFFICIENT TO DEVELOP REACTION CAPACITY ALLOWABLE UNIFORM LOAD/SPAN DIVIDED BY TWO AS SHOWN IN AISC MANUAL SECTION 3 (15th EDITION).

SF-10 DECK STOP ANGLES, FASCIA ANGLES, HANGERS, CLIPS AND OTHER STRUCTURAL AND MISCELLANEOUS MEMBERS SHALL BE CONNECTED OR JOINED USING 3/16" OR LARGER FILLET OR GROOVE WELDS AS REQUIRED FOR ADEQUATE CONNECTION.

SF-11 WHERE OPENINGS THROUGH ROOF ARE REQUIRED, FRAME AS DETAILED.



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

CONCRETE NOTES:

CN-1 CONCRETE SHALL BE LABORATORY DESIGNED TO DEVELOP MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS GIVEN BELOW. REFER TO SPECIFICATIONS FOR AGGREGATES, CEMENT, ADMIXTURES, ETC.

GRADE BEAMS, SLABS-ON-GRADE . . . . . 3,000 PSI

NOTE: FLY ASH WILL BE PERMITTED UP TO 20% PORTLAND CEMENT REPLACEMENT FPR TYPE I, II, III IV, NO FLY ASH FOR TYPE II, REFER TO SPECIFICATIONS.

CN-2 REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A615-GR 60 . . . . . FOOTING SPIRALS
A185 . . . . . WELDED WIRE FABRIC
A615-GR 60 . . . . . BEAM STIRRUPS, COLUMN TIES
A615-GR 60 . . . . . ALL OTHER REINFORCING
ASTM A108-60T . . . . . HEADED CONCRETE ANCHORS
ASTM A496 . . . . . .DEFORMED BAR ANCHORS

CN-3 DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315). BAR SUPPORTS SHALL HAVE PLASTIC COATED LEGS OR BE HOT DIPPED GALVANIZED AFTER FABRICATION.

CN-4 PROVIDE BAR LAPS AND SPLICES PER REINFORCING BAR LAP SPLICE TABLE BELOW. SEE "CORNER DETAILS" FOR CONTINUOUS BARS AT CORNERS. SPIRALS SHALL BE LAPPED 1-1/2 TURNS. WELDED WIRE MESH SHALL BE LAPPED 8" MINIMUM AT SPLICE POINTS, OR 1-1/2 MESHES, WHICHEVER IS GREATEST.

CN-5 ALL SLAB AND BEAMS SHALL BE POURED MONOLITHIC. CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE FORMING SO THAT NOT MORE THAN 400 CUBIC YARDS IS POURED IN ONE DAY. LOCATION OF CONSTRUCTION JOINTS MUST HAVE PRIOR APPROVAL OF STRUCTURAL ENGINEER OF RECORD AND SHALL GENERALLY BE LOCATED AT OR NEAR MID-POINTS OF SPANS OF SLAB, BEAMS AND WALLS. ALL CONTINUOUS REINFORCING SHALL BE CARRIED THROUGH THE JOINT. SEE DETAILS FOR CONTINUOUS KEY BETWEEN ADJACENT POURS.

CN-6 SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZES OF ALL SLAB OPENINGS AND SLEEVES, INSERTS, ANCHORS AND BOLTS REQUIRED BY ABOVE.

CN-7 REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOOR FINISHES, DIMENSIONS AND LOCATIONS OF SLAB DROPS AND DEPRESSIONS.

CN-8 MECHANICAL AND ELECTRICAL CONDUITS IN SLABS SHALL RUN UNDER THE TOP LAYER OF SLAB REINFORCING OR WELDED WIRE FABRIC. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN INDIVIDUAL CONDUITS, AND BETWEEN CONDUIT AND PARALLEL REINFORCING. DO NOT "BUNDLE" CONDUITS IN SLAB OR BEAMS. MAXIMUM CONDUIT SIZE IN 3" OR 4" SLAB IS 3/4"ø. MAX CONDUIT SIZE IN SLABS 5" AND OVER IS 1"ø. IN NO CASE SHALL MORE THAN 6 CONDUITS BE PLACED TOGETHER WITHOUT THE ENGINEERS APPROVAL.

CN-9 "HEADED CONCRETE ANCHORS" (HCA) SHALL BE OF 50,000 PSI STEEL ROD WITH UPSET ENDS, AUTOMATICALLY ARC WELDED THROUGH CERAMIC FERRULES, "NELSON CONCRETE ANCHORS" OR EQUAL.

MECHANICAL TESTING OF HCA IN SHOP
MECHANICAL TESTS SHALL BE MADE BEFORE INITIATION OF PRODUCTION WELDING AND AFTER ANY EQUIPMENT MAINTENANCE TO ENSURE THAT THE WELDING SCHEDULE IS SATISFACTORY. THEY MAY ALSO BE MADE DURING THE PRODUCTION RUN OR AT THE BEGINNING OF A SHIFT TO ENSURE THAT WELDING CONDITIONS HAVE NOT CHANGED. ARC WELDED STUDS ARE TESTED BY BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE, THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL COMPOSITIONS, CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN. ACCEPTABLE BENDING SHOULD BE DETERMINED WHEN THE WELDING PROCEDURE SPECIFICATION IS ESTABLISHED OR FROM THE APPLICABLE WELDING CODE. BEND TESTING MAY DAMAGE THE STUD; THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN. SPECIAL TOOLING MAY BE REQUIRED TO GRIP THE STUD PROPERLY WITHOUT DAMAGE, AND A SPECIAL LOADING DEVICE MAY BE NEEDED.

MECHANICAL TESTING OF HCA IN FIELD
MECHANICAL TESTS SHALL BE MADE IN THE FIELD BEFORE PLATES ARE INSTALLED IN CONCRETE. THE CONTRACTOR SHALL SUPPLY AT A MINIMUM ONE ADDITIONAL PER 50 PLATES OF EACH TYPE OR ADDITIONAL STUDS SHALL BE PLACED ON SPECIAL CONFIGURATION PLATES AND MEMBERS, THESE STUDS SHALL BE TESTED IN THE FIELD. ARC WELDED STUDS ARE TESTED BY BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE, THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL COMPOSITIONS, CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN. BEND TESTING MAY DAMAGE, THUS THEY MAY NOT BE USED. THE STUD; THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN, PROPERLY WITHOUT DAMAGE, AND A SPECIAL LOADING DEVICE MAY BE NEEDED.

CN-10 REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS. ALL TESTING SHALL BE AT POINT OF DISCHARGE, IF PUMP IS USED, TESTING SHALL BE AT THE END OF THE HOSE.

REINFORCING BAR LAP SPLICE TABLE (MASONRY)

BAR SIZE	POSITION	CONCRETE f'c (PSI) AND LAP CLASS					
		2500 B	3000 B				
#3 thru #6	ALL	40db	40db				
#7 thru #11	ALL	72db	72db				

REINFORCING BAR LAP SPLICE TABLE (BEAMS AND COLUMNS)

BAR SIZE	POSITION	CONCRETE f'c (PSI) AND LAP CLASS					
		3000 B	4000 B	5000 B	6000 B		
#3 thru #6	ALL	74db	64db	58db	50db		
#7 thru #11	ALL	93db	80db	72db	60db		

REINFORCING BAR LAP SPLICE TABLE (SLABS AND WALLS)

BAR SIZE	POSITION	CONCRETE f'c (PSI) AND LAP CLASS					
		3000 B	4000 B	5000 B			
#3 thru #6	0.75" COVER 2.0" COVER	75db 46db	64db 40db	58db 40db			
#7 thru #11	0.75" COVER 2.0" COVER	138db 74db	120db 65db	106db 56db			

ADHESIVE ANCHOR SYSTEMS NOTES:

AA-1 REINFORCING BARS, DOWELS OR THREADED ROD (INDICATED TO BE ADHESIVE ANCHORED OR DOWELED INTO CONCRETE OR SOLID MASONRY) SHALL BE INSTALLED USING SIMPSON ACRYLIC-TIE ADHESIVE ANCHORING SYSTEM BY SIMPSON STRONG-TIE CO., INC. (ICBO REPORT NO. 5791), SIMPSON SET EPOXY ANCHORING SYSTEM BY SIMPSON STRONG-TIE CO., INC. (ICBO REPORT NO. 5279), OR SIMPSON ET EPOXY ANCHORING SYSTEM BY SIMPSON STRONG-TIE CO., INC. (ICBO REPORT NO. 4945).

AA-2 DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, A616, A617 OR A706; MINIMUM GRADE 60, THREADED ROD SHALL MEET THE STRENGTH REQUIREMENTS OF ASTM A36 OR A307. PRIOR TO INSTALLATION, ALL DEFORMED BARS AND THREADED ROD SHALL BE CLEAN, FREE OF OIL, GREASE OR OTHER RESIDUE, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

AA-3 HOLES SHALL BE DRILLED USING ROTARY HAMMER DRILLS WITH ANSI MATCHED TOLERANCE CARBIDE-TIPPED DRILL BITS. DRILL BIT DIAMETER SHALL MATCH DIAMETER RECOMMENDED BY MANUFACTURER. INSTALLATION OF ALL ADHESIVE ANCHORS SHALL CONFORM TO THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS, THE REQUIREMENTS OF THE RESPECTIVE ICBO REPORT, AND ALL APPLICABLE BUILDING CODES.

AA-4 WHEN BASE MATERIAL TEMPERATURE FALLS BELOW 40 DEGREES F, ONLY ACRYLIC BASED ADHESIVES SHALL BE USED.

AA-5 USE CARE AND CAUTION WHEN INSTALLING ANCHORS TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING STEEL.

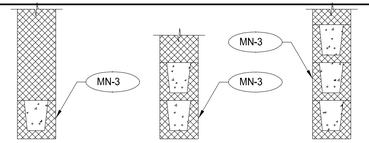
AA-6 PROVIDE THE MINIMUM EMBEDMENT DEPTH INDICATED IN THE FOLLOWING SCHEDULES, UNLESS NOTED OTHERWISE IN A SPECIFIC SECTION OR DETAIL.

REINFORCING BARS

BAR SIZE	EMBEDMENT
#3	5"
#4	6"
#5	8"
#6	9"
#7	10"
#8	12"
#9	15"
#10	18"

THREADED ROD

DIA.	EMBEDMENT
1/2"	5"
5/8"	6"
3/4"	7"
1"	9"



CMU LINTEL SCHEDULE

SIZE	CLEAR OPENING		REMARKS
	GREATER THAN	UP TO	
ONE COURSE	-	4'-0"	8" BEARING @ EA. END
TWO COURSE	4'-0"	8'-6"	8" BEARING @ EA. END
THREE COURSE	8'-6"	14'-0"	8" BEARING @ EA. END

MASONRY WALL REINFORCEMENT:

MN-1 PROVIDE GROUTED REINFORCED VERTICAL CELLS AND HORIZONTAL BOND BEAMS AT WALL TOP EDGES, CORNERS, FREE ENDS, WINDOW AND DOOR JAMBS, LINTELS AND OTHER LOCATIONS WHERE SHOWN ON ARCHITECTURAL DRAWINGS. REINFORCE EACH GROUTED CELL AND BOND BEAM WITH 1-#4 BAR CONTINUOUS (REINFORCE LINTELS AS SPECIFIED BELOW).

MN-2 BASIC VERTICAL REINFORCEMENT FOR EXTERIOR WALLS SHALL BE #4 @ 16"o.c. SOLID GROUTED.

MN-3 PROVIDE GROUTED REINFORCED LINTELS WITH 8" BEARING EACH END OF ALL DOORS, WINDOWS, AND OTHER OPENINGS. USE ONE-COURSE LINTELS FOR OPENINGS UP TO 4'-0"; TWO-COURSE LINTELS FOR OPENINGS UP TO 8'-6"; THREE-COURSE LINTELS FOR OPENINGS UP TO 14'-0". REINFORCE EACH COURSE WITH 2-#5 BAR CONTINUOUS.

MN-4 PROVIDE MATCHING DOWELS IN FOUNDATION FOR ALL VERTICAL REINFORCEMENT.

MN-5 CMU SHALL HAVE A UNIT STRENGTH OF 1,900 PSI. USE TYPE S MORTAR. REINFORCED CMU SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f'm=1,500 PSI. GROUT FOR FILLED CELLS SHALL BE MADE OF CEMENT, SAND AND PEA GRAVEL IN APPROXIMATE RATIO OF 1:3:2 AND SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

MN-6 ANCHOR MASONRY TO STRUCTURE AS SHOWN IN DETAILS. SEE SPECIFICATIONS FOR ORDINARY MASONRY ANCHORS INCLUDING DOVETAIL ANCHOR SLOTS IN ADJACENT CONCRETE MEMBERS.

MN-7 LEVEL 1 INSPECTED MASONRY REQUIRES CONTRACTOR TO SUBMIT, AT CONTRACTORS COST, COMPRESSIVE WALL DESIGN STRENGTH (f'm) VERIFIED BY INDEPENDENT TESTING LAB BY PRISM TESTS BEFORE MASONRY CONSTRUCTION BEGINS. PROVIDE UNIT MASONRY STRENGTH, GROUT MIX DESIGN AND MORTAR MIX DESIGN.

CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

GENERAL NOTES:

GN-1 THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2024) AS AMENDED AND ADOPTED BY THE GOVERNING AUTHORITY, AND APPLICABLE INDUSTRY STANDARDS (AISC, ACI, ETC.).

GN-2 THE DESIGN LOADS ARE:

SUPERIMPOSED DEAD LOADS
MECHANICAL DUCTS/CONDUITS, CEILING, ETC. . . . . 5 PSF
MECHANICAL EQUIPMENT . . . . . AS INDICATED ON PLANS

FLOOR LIVE LOAD
CORRIDOR . . . . . 100 PSF
OFFICES . . . . . 50 PSF
MOVEABLE PARTITIONS . . . . . 20 PSF
MECHANICAL ROOMS . . . . . 150 PSF
(NON REDUCIBLE)

ASSEMBLY AREAS:
FIXED SEATS . . . . . 60 PSF
LOBBIES . . . . . 100 PSF
MOVEABLE SEATS . . . . . 100 PSF
STAGES & PLATFORMS . . . . . 125 PSF
CATWALKS . . . . . 40 PSF

ROOF LIVE LOAD
FLAT ROOF . . . . . 20 PSF
PITCHED ROOF . . . . . 20 PSF

ROOF SNOW LOAD
GROUND SNOW Pg . . . . . 10 PSF
SNOW EXPOSURE FACTOR Ce 1.0
SNOW LOAD IMPORTANCE FACTOR Is 1.1
THERMAL FACTOR Ct 1.0

WIND LOAD
BASIC WIND SPEED (ULTIMATE DESIGN) 115
BUILDING CATEGORY III
WIND EXPOSURE C

EARTHQUAKE LOADS
SITE CLASS . . . . . D
SPECTRAL RESPONSE ACCELERATION Ss 5.6%
SPECTRAL RESPONSE ACCELERATION S/I 2.4%
SPECTRAL RESPONSE COEF. SDs 3.9%
SPECTRAL RESPONSE COEF. SDI 2.2%
SEISMIC DESIGN CATEGORY . . . . . A

RETAINING WALLS
GLOBAL STABILITY ANALYSIS FACTOR OF SAFETY 1.5
TYPE . . . . . ,CANTILEVER
EQUIVALENT FLUID PRESSURE . . . . . 50 PCF
BACKFILL . . . . . .DRAINED/ONSITE
FOOTING BEARING . . . . . 1500 PSF
SURCHARGE . . . . . 200 PSF

GN-3 ALLOWABLE STRESS DESIGN LOAD COMBINATIONS (FOR ALL DESIGNS EXCEPT CONCRETE)

D
D+L
D+(Lr, or S or R)
D+0.75L+0.75(Lr, or S or R)
D+(0.6W)
D+0.75L+0.75(0.6W)+0.75(Lr or S or R)
0.6D+0.6W
D+0.7E

STRENGTH DESIGN LOAD COMBINATIONS (FOR CONCRETE DESIGN)

1.4D
1.2D+1.6L+0.5(Lr, or S or R)
1.2D+1.6(Lr, or S or R)+(L or 0.5W)
1.2D+1.0W+L+0.5(Lr, or S or R)
0.9+1.0W
1.2D+E+L+0.2S

GN-4 PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND FABRICATOR SHALL VERIFY ALL QUANTITIES, DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

GN-5 UTILITIES PENETRATING BUILDING SHALL BE FLEXIBLE, USING SLEEVE JOINTS, BENDS, LOOPS, ETC. TO PERMIT MOVEMENTS DUE TO EXPANSIVE UNDERLYING SOILS.

GN-6 PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING FOR THE SUPPORT AND MOUNTING OF MECHANICAL EQUIPMENT RESTING ON, OR SUSPENDED FROM, STEEL SUPERSTRUCTURE.

GN-7 THE STRUCTURAL DRAWINGS FOR THIS PROJECT ARE COPYRIGHTED AND SHALL NOT BE REPRODUCED FOR USE AS FABRICATOR'S ERECTION DRAWINGS. THE CONTRACTOR SHALL ALLOW ADEQUATE TIME AND EXPENSE FOR SUBCONTRACTORS TO PRODUCE THEIR OWN ORIGINAL ERECTION AND PLACEMENT DRAWINGS.

GN-8 THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. ANY PROPOSED APPLICATION OF CONSTRUCTION LOADS OR OF ANY LOADS TO THE PARTIALLY COMPLETED STRUCTURE WHICH EXCEED THE DESIGN LOADS WILL REQUIRE REANALYSIS AND PROBABLE REDESIGN.

EXPANSION ANCHORS NOTES:

EA-1 ALL EXPANSION ANCHORS SHALL BE 3/4" DIAMETER UNLESS NOTED OTHERWISE WITH A MINIMUM EMBEDMENT DEPTH OF 4 1/8", UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. OTHER DIAMETERS INDICATED IN SECTIONS OR DETAILS SHALL COMPLY WITH THE MINIMUM EMBEDMENT DEPTHS INDICATED IN THE SCHEDULE BELOW.

EA-2 EXPANSION ANCHORS SHALL BE A STUD BOLT TYPE WITH HEX HEAD NUT AND SHALL BE ZINC PLATED.

EA-3 ANCHORS SHALL BE STRONG-BOLT 2 WEDGE ANCHOR (ICC-ES ESR 3037) BY SIMPSON STRONG-TIE CO., INC. OR HILTI KWIK BOLT III (ICC-ES ESR 2302).

EA-4 ANCHORS SHALL BE INSTALLED AND TORQUED IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

EXPANSION ANCHOR

DIAMETER	MIN. EMBEDMENT	REMARKS
1/2"	2 3/4"	
5/8"	3 3/8"	
3/4"	4 1/8"	SEE NOTE EA-1

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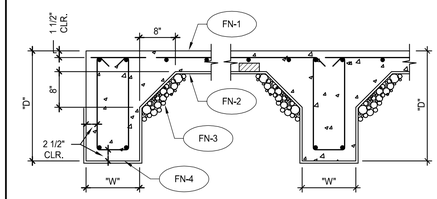
TX FIRM REG. #3388

DATE: 02/25/2026

STATE OF TEXAS
SHAWN J. FRANKE
82639
LICENSED PROFESSIONAL ENGINEER



1 DETAIL
N.T.S.

2 DETAIL
N.T.S.

GRADE BEAM SCHEDULE

MARK	W x D*	MAIN REINFORCING	TIES
GB1	12 x 24*	2-#7 x CONT. TOP & BOTTOM	#3 @ 24"o.c.

* REF. NOTE FN-4

FOUNDATION NOTES:

FN-1 5" CONCRETE SLAB REINFORCED W/ #4 @ 12"o.c. EACH WAY IN TOP. SUPPORT AT 4'-0"o.c. EACH WAY WITH CONCRETE BLOCKS OR BRICKS. SUPPORT BOTTOM BEAM REINFORCEMENT AT 4'-0" INTERVALS.

FN-2 15 MIL. POLYOLEFIN VAPOR RETARDER UNLESS NOTES OTHERWISE IN SPECIFICATIONS. AT ALL JOINTS PROVIDE 6" LAPS W/ 4" TAPE.

FN-3 COMPACTED SELECT FILL (SEE UF-6 "UNDERFLOOR FILL NOTES").

FN-4 ALL BEAM SOFFITS SHALL BEAR 24" MINIMUM INTO NATURAL GRADE OR COMPACTED FILL. ON PERIMETER, INCREASE SCHEDULED BEAM DEPTH AS REQUIRED FOR SOFFIT TO BEAR 24" MINIMUM BELOW FINISH GRADE, REF GEOTECHNICAL REPORT. ALL PERIMETER GRADE BEAMS SHALL BEAR ON LIMESTONE

FN-5 GRADE BEAMS AND SLAB TURNDOWNS SHALL BE FORMED BY WALLS AND SOFFIT OF CAREFULLY SHAPED TRENCH. USE A SMOOTH-MOUTHED BUCKET. IF A TOOTHED BUCKET IS USED, EXCAVATION SHALL BE STOPPED 6" ABOVE FINAL GRADE AND THE REMAINING EXCAVATION ACCOMPLISHED WITH A SMOOTH MOUTHED BUCKET OR BY HAND LABOR TO REMOVE ALL LOOSE SOILS DISTURBED BY THE BUCKET TEETH, WOODFORM EXPOSED FACES TO A DEPTH OF 8" BELOW FINISHED GRADE.

FN-6 AT ALL BEAM CORNERS & T-INTERSECTIONS, PROVIDE 4-#7 X 6'-0" CORNER BARS (2-TOP AND 2-BOTTOM).

FN-7 TRENCHES SHALL BE VERIFIED FOR SIZE TO MAINTAIN CLEARANCES AROUND REINFORCEMENT PRIOR TO PLACING REINFORCEMENT.

FN-8 WHERE BEAM DEPTH EXCEEDS 36", ADD #4 @ 12"o.c. IN EACH FACE OF BEAM.

UNDERFLOOR FILL NOTES:

UF-1 BEFORE ANY CONSTRUCTION IS BEGUN, PERFORM ROUGH GRADING AND CUT SWALES SO THAT GROUNDS WILL DRAIN AWAY FROM THE BUILDING. MAINTAIN DRAINAGE DURING ALL PHASES OF CONSTRUCTION SO THAT STORM WATER WILL BE CONDUCTED AWAY FROM NEW SLAB. KEEP EXCAVATIONS PUMPED FREE OF STORM WATER AT ALL TIMES.

UF-2 PRECAUTIONS SHALL BE TAKEN TO PROTECT OPEN EXCAVATIONS FROM EXCESSIVE LOSS OR GAIN IN NATURAL MOISTURE LEVEL PRIOR TO PLACEMENT OF BASE MATERIAL. KEEP MOIST DURING DRY WEATHER AND KEEP STORM WATER PUMPED OUT, INCLUDING NIGHTS AND WEEKENDS, DURING RAINS.

UF-3 IN THE AREA OCCUPIED BY THE NEW SLAB PLUS 3' - 0" REMOVE ALL SOIL FROM THE BASEMENT TO A LEVEL 1' - 0" BELOW BOTTOM OF NEW SLAB. DO NOT USE FOR UNDERFLOOR FILL.

UF-4 THE RESULTING SURFACE SHALL BE PROOF ROLLED WITH A SUFFICIENTLY HEAVY ROLLER (WALK BEHIND) TO LOCATE AND DENSITY WEAK AND COMPRESSIBLE ZONES. A MINIMUM OF 6 PASSES OF THE ROLLER IS REQUIRED. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL.

UF-5 THE ROLLED SUBGRADE SHALL BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO MINIMUM OF 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED.

UF-6 FOR A DISTANCE OF 3'-0" OUTSIDE OF THE BUILDING LINE AND ALL ADJACENT SIDEWALKS, AND BEGINNING AT THE LOW END, BUILD UP TO THE ELEVATION OF THE BOTTOM OF THE SLAB WITH SELECT CRUSHED STONE FILL CONFORMING TO TxDOT SPECIFICATIONS, ITEM 247, TYPE "A" GRADE 2. A MINIMUM THICKNESS OF 1'-0" IS REQUIRED. NO DIRT FILL SHALL BE USED UNDER THE BUILDING FOUNDATION. SUBMIT WRITTEN CERTIFICATION OF COMPLIANCE WITH TxDOT, ITEM 247 SPECIFICATIONS BY TEST PERFORMED ON FIELD EXAMPLES.

UF-7 ALL FILL SHALL BE PLACED IN 8" LOOSE HORIZONTAL LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED. EXCESS FILL AT BUILDING PERIMETER SHALL BE CUT AND GRADED TO COMPLY WITH FINISHED GRADE REQUIREMENTS.

UF-8 PERFORM ALL EARTH WORK DESCRIBED ABOVE BEFORE TRENCHING FOR GRADE BEAMS OR MECHANICAL LINES.

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210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

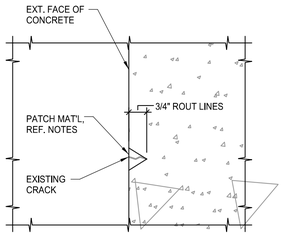
SHEET TITLE: GENERAL NOTES, SECTIONS & DETAILS PHASE II

PROJECT NO: 2308 A1

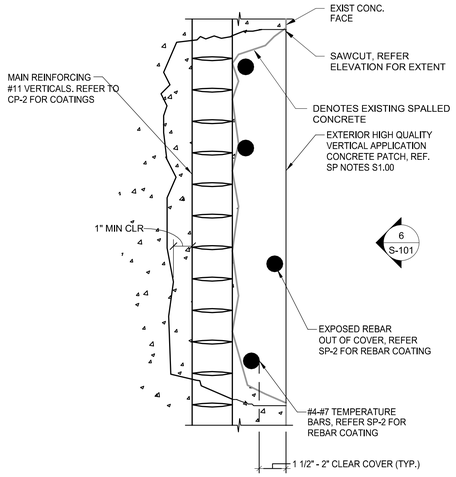
△ REVISIONS DATE

SHEET NO: S-100

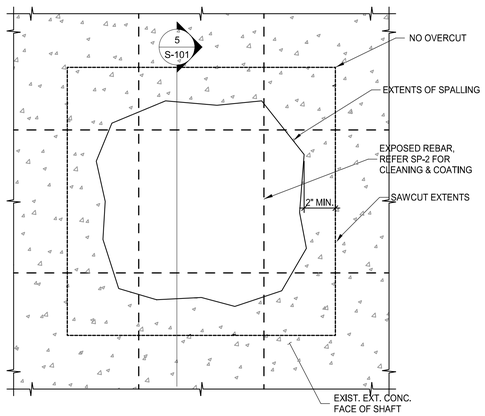
LA PROJECT NO.: 85-009-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24



4 DETAIL - ROUTED CRACK WITH MORTAR INFILL
N.T.S.



5 DETAIL - REPAIR OF SPALLED CONCRETE TO FACE OF MAIN VERT. REINF.
N.T.S.



6 ELEVATION (SPALL REPAIR)
N.T.S.

CONCRETE CRACK PATCHING NOTES: (Refer to Section 030100 for additional requirements)

CC-1 VERIFY EXIST. CRACK WIDTH CRACKS GREATER THAN 15 MILS SHALL BE REPAIRED. CRACKS SMALLER THAN IS 15 MILS SHALL REMAIN UNDERTREATED.

CC-2 REMOVE ALL LOOSE CONCRETE AROUND EXISTING CRACK.

CC-3 IF EXPOSED REBAR IS PRESENT WITHIN CRACK, REPAIR PER CONCRETE SPALLING NOTES.

CC-4 VERIFY EXTENTS OF CRACKING AND INITIATE A 3/4" DEEP ROUTING AROUND THE EXTENTS OF THE CRACK GOING BEYOND EACH END OF THE CRACK A MINIMUM OF 1" PER DETAIL 9 & 10/S1.05.

CC-5 PREP AND COAT NEWLY EXPOSED REBAR(IF ANY FROM ROUTING PER NOTE CC-2 IF NECESSARY).

CC-6 APPLY TINTCRETE BY JE TOMES, INC. OR EQUIVALENT CEMENTITIOUS BASED REPAIR MORTAR PER MANUFACTURER'S INSTRUCTIONS INTO PROPERLY PREPARED ROUTED CRACK. MATERIAL IS TO BE COLOR MATCHED TO EXISTING CONRETE PER ARCHITECTURAL REQUIREMENTS WITHIN MOCK-UP NOTES ON SHEET A1.2.

CC-7 GENERAL CONTRACTOR TO PROVIDE FOR APPROXIMATELY 1700 TOTAL LINEAR FEET OF CONCRETE SURFACE CRACKING FOR PATCHING BASED ON EXTRAPOLATED LINEAR FOOTAGE AVERAGE FROM TOWER OF THE AMERICAS 2019 CONDITION ASSESSMENT REPORT LIMITED STRUCTURAL OBSERVATIONS AND LABORATORY EVALUATION APPENDIX E DATED FEBRUARY 24, 2020, WITH ADD/DEDUCT PRICING PER LINEAR FOOT. GENERAL CONTRACTOR MAY ENCOUNTER NEW AND UNACCOUNTED FOR CRACKS WITHIN THE SURVEY AREA.

REFER TO TOWER CRACK/SPALL SURVEY ON SHEETS S1.03 & 1.04 FOR SURVEY OF TYPICAL CONDITIONS.

STEEL MEMBER PROTECTION NOTES:

SP-1 REMOVE ALL EXISTING FIREPROOFING OR REMANANTS OF EXISTING FIREPROOFING PRESENT AROUND AREA UNTIL MEMBER AREA IS COMPLETELY EXPOSED.

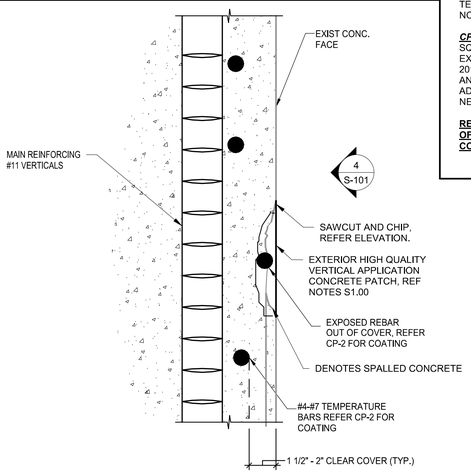
SP-2 ABRASIVE BLAST CLEAN TO REMOVE ALL RUST AND DELETERIOUS MATERIAL UNTIL ALL RUST HAS BEEN REMOVED. VERIFY ADDITIONAL REQUIREMENTS WITH PAINT MANUFACTURER (REF. NOTE SP-4, BELOW) MECHNICAL GRINDING PERMITTED. CONTRACTOR RESPONSIBLE FOR QUALITY OF GRINDING AND ANY RESIDUAL DAMAGE CAUSED IF USED.

SP-3 NOTIFY ENGINEER AND DESIGN TEAM IF SECTION LOSS HAS BEEN NEGATIVELY AFFECTED BY CLEANING PROCEDURE.

SP-4 APPLY SIKACOR ZINC R ZINC RICH PRIMER OR EQUVALENT TO PREPPED SURFACE ACCORDING TO MANUFACTURER'S INSTRUCTIONS. SPRAY APPLICATION PREFERRED.

SP-5 REAPPLY ZINC RICH PRIMER AS NECESSARY AFTER CURING OF INITIAL COAT, IF NECESSARY.

SP-6 LOCATIONS PROVIDED ON SHEET S1.07 "TOPHOUSE CRAWLSPACE STEEL REPAIR SURVEY" AND WITHIN TOWER OF THE AMERICAS 2019 CONDITION ASSESSMENT REPORT LIMITED STRUCTURAL OBSERVATIONS AND LABORATORY EVALUATION **APPENDIX E** DATED FEBRUARY 24, 2020. GENERAL CONTRACTOR MAY ENCOUNTER NEW AND UNACCOUNTED FOR DETERIORATION AND IS RESPONSIBLE TO NOTIFY THE DESIGN TEAM OF SUCH INSTANCES.



3 DETAIL - REPAIR OF SPALLED CONCRETE FOR SHALLOW DAMAGE
N.T.S.

ADHESIVE ANCHOR SYSTEMS NOTES:

AA-1 REINFORCING BARS, DOWELS OR THREADED ROD (INDICATED TO BE ADHESIVE ANCHORED OR DOWELED INTO CONCRETE OR SOLID MASONRY) SHALL BE INSTALLED USING SIMPSON ACRYLIC-TIE ADHESIVE ANCHORING SYSTEM BY SIMPSON STRONG-TIE CO., INC. (ICBO REPORT NO. 5791), SIMPSON SET EPOXY ANCHORING SYSTEM BY SIMPSON STRONG-TIE CO., INC. (ICBO REPORT NO. 5279), OR SIMPSON ET EPOXY ANCHORING SYSTEM BY SIMPSON STRONG-TIE CO,, INC. (ICBO REPORT NO. 4945).

AA-2 DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, A616, A617 OR A706; MINIMUM GRADE 60. THREADED ROD SHALL MEET THE STRENGTH REQUIREMENTS OF ASTM A36 OR A307. PRIOR TO INSTALLATION, ALL DEFORMED BARS AND THREADED ROD SHALL BE CLEAN, FREE OF OIL, GREASE OR OTHER RESIDUE, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

AA-3 HOLES SHALL BE DRILLED USING ROTARY HAMMER DRILLS WITH ANSI MATCHED TOLERANCE CARBIDE-TIPPED DRILL BITS. DRILL BIT DIAMETER SHALL MATCH DIAMETER RECOMMENDED BY MANUFACTURER. INSTALLATION OF ALL ADHESIVE ANCHORS SHALL CONFORM TO THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS, THE REQUIREMENTS OF THE RESPECTIVE ICBO REPORT, AND ALL APPLICABLE BUILDING CODES.

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AA-6 PROVIDE THE MINIMUM EMBEDMENT DEPTH INDICATED IN THE FOLLOWING SCHEDULES, UNLESS NOTED OTHERWISE IN A SPECIFIC SECTION OR DETAIL.

REINFORCING BARS	
BAR SIZE	EMBEDMENT
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#7	10"
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#10	18"

THREADED ROD	
DIA.	EMBEDMENT
1/2"	5"
5/8"	6"
3/4"	7"
1"	9"

CONCRETE SPALL PATCHING NOTES: (Refer to Section 030100 for additional requirements)

CP-1 REMOVE ALL LOOSE CONCRETE & REMOVE MINIMUM 2" BEYOND UNSOUND OR DETERIORATED AREA. REMOVAL GEOMETRY TO BE REGULAR & WITHOUT REENTRANT CORNERS CARE TO PREVENT SAWCUTTING OF EXISTING REINFORCMENT BARS IS LIMITED IS TO BE TAKEN

CP-2 REMOVE CONCRETE TO A DEPTH OF A MINIMUM OF 3/4" BEHIND EXISTING. REINFORCEMENT BARS. DEPTH OF REMOVAL TO BE CONSISTENT THROUGHOUT EACH REPAIR AREA. USE OF 15LB (MAXIMUM) CHIPPING HAMMERS ONLY.

CP-3 IF EXPOSED REBAR IS PRESENT, CLEAN EXPOSED REBAR WITH ABRASIVE BLAST CLEANING,TO BEST EXTENT POSSIBLE. COAT EXPOSED AND CLEANED REBAR WITH MINIMUM TWO (2) COATS OF CORRSION INHIBITING COATING SIKA ARMATEC 10 ZR PRIMER, SIKA ARMATEC 110 EPOCEM, OR EQUIVALENT PRIOR TO CONCRETE PATCHING.

CP-4 VERIFY EXTENTS OF SPALLING AND INITIATE A 3/4" DEEP SAW CUT AT A MINIMUM OF 2" BEYOND FURTHESTMOST POINT OF EACH SPALL ON EACH SIDE. TAKE CARE TO NOT CUT EXISTING REBAR DURING SAW CUTTING. REF DETAILS 7 & 8/S1.05 BASED ON APPROXIMATE SPALL SIZES.

CP-5 PREP AND COAT NEWLY EXPOSED REBAR(IF ANY FROM SAW CUTTING) PER NOTE CP-2.

CP-6 CLEAN & PREPARE EXPOSED CONCRETE SURFACE FOR REPAIR WITH ABRASIVE BLAST CLEANING & DRY.

CP-7 APPLY TINTCRETE BY JE TOMES, INC. OR EQUIVALENT TO THE FULLY EXPOSED SPALLED AND SAW CUT CONCRETE SURFACE PER MANUFACTURER'S INSTRUCTIONS. THE CONCRETE REPAIR MATERIAL SHALL BE COLOR AND TEXTURE MATCHED PER ARCHITECTURAL REQUIREMENTS WITHIN MOCK-UP NOTES ON SHEET A1.2.

CP-8 GENERAL CONTRACTOR TO PROVIDE FOR APPROXIMATELY 2800 TOTAL SQ. FT. OF CONCRETE SURFACE AREA FOR PATCHING BASED ON EXTRAPOLATED SQUARE FOOTAGE AVERAGE FROM TOWER OF THE AMERICAS 2019 CONDITION ASSESSMENT REPORT LIMITED STRUCTURAL OBSERVATIONS AND LABORATORY EVALUATION APPENDIX E DATED FEBRUARY 24, 2020, WITH ADD/DEDUCT PRICING PER SQ. FT.GENERAL CONTRACTOR MAY ENCOUNTER NEW AND UNACCOUNTED FOR SPALLS WITHIN THE SURVEY AREA.

REFER TO TOWER CRACK/SPALL SURVEY ON SHEETS S1.04 & 1.05 FOR SURVEY OF TYPICAL CONDITIONS.

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TX FIRM REG. #3388

DATE: 02/25/2026

STATE OF TEXAS
SHAWN J. FRANKE
82639
LICENSED PROFESSIONAL ENGINEER

EXPANSION ANCHORS NOTES:

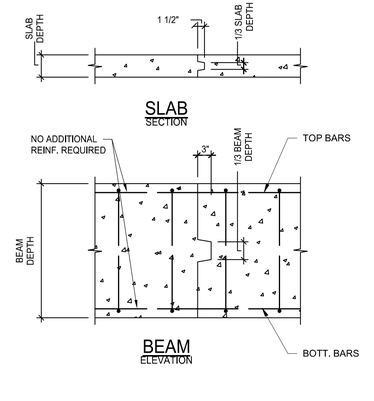
EA-1 ALL EXPANSION ANCHORS SHALL BE 3/4" DIAMETER UNLESS NOTED OTHERWISE WITH A MINIMUM EMBEDMENT DEPTH OF 4 1/8", UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. OTHER DIAMETERS INDICATED IN SECTIONS OR DETAILS SHALL COMPLY WITH THE MINIMUM EMBEDMENT DEPTHS INDICATED IN THE SCHEDULE BELOW.

EA-2 EXPANSION ANCHORS SHALL BE A STUD BOLT TYPE WITH HEX HEAD NUT AND SHALL BE ZINC PLATED.

EA-3 ANCHORS SHALL BE STRONG-BOLT 2 WEDGE ANCHOR (ICC-ES ESR 3037) BY SIMPSON STRONG-TIE CO., INC. OR HILTI KWIK BOLT III (ICC-ES ESR 2302).

EA-4 ANCHORS SHALL BE INSTALLED AND TORQUED IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

EXPANSION ANCHOR		
DIAMETER	MIN. EMBEDMENT	REMARKS
1/2"	2 3/4"	
5/8"	3 3/8"	
3/4"	4 1/8"	SEE NOTE EA-1



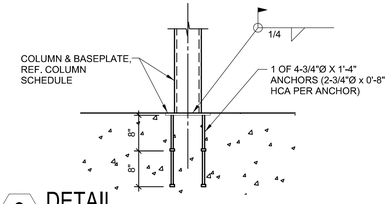
1 DETAIL
N.T.S.

COLUMN SCHEDULE						
MARK	SECT.	TOP CONN.	BASE PLATE			REMARKS
			W x D x t	ANCHORS	SECT.	
C1	HSS5X5X3/8	3/S-302	8X12X1	4-3/4" DIA. X 1'-4" HCA	2/S-101	
C2	HSS4X4X3/8	3/S-302	8X12X1	4-3/4" DIA. X 1'-4" HCA	2/S-101	

STEEL COLUMN NOTES:

1. COLUMN MARKS AT ANY LEVEL INDICATE THE TYPE COLUMN WHICH IS BELOW THAT LEVEL.

2. PROVIDE 1" OF A 1/4" FILLET WELD TO EA. SIDE OF COLUMN PRIOR TO RELEASE OF COLUMN FROM ERECTION EQUIPMENT.



2 DETAIL
N.T.S.

Fisher Heck ARCHITECTS
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210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXPANSION & ADHESIVE ANCHOR NOTES, REPAIR NOTES & DETAILS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-101

LA PROJECT NO. 85-009-00
LA FILE NO., LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

3. CONCRETE CONSTRUCTION CONT.:				
L. REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	ACI 318-CH. 5.11, 5.13	*QUALIFICATIONS BASED ON ASTM E329
M. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	CONTINUOUS	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONRETE TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE
4. STEEL CONSTRUCTION			IBC 1705.2	
A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:	PERIODIC	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	PERIODIC	2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 335, SECTION A3.4; AISC LRFD, SECTION A3.3	
B. HIGH STRENGTH BOLTING:	PERIODIC	1. BEARING-TYPE CONNECTIONS.	IBC 1704.3.3; STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	N/A	2. SLIP-CRITICAL CONNECTIONS.	AISC LRFD SECTION M2.5	
C. MATERIAL VERIFICATION OF STRUCTURAL STEEL:	PERIODIC	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2; STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	PERIODIC	2. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	ASTM A 6 OR ASTM A 568	
D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	PERIODIC	1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	PERIODIC	2. MANUFACTURERS' CERTIFIED OF COMPLIANCE REQUIRED.	AISC, ASD, SECTION A3.6; AISC LRFD, SECTION A3.5	
E. WELDING: OF STRUCTURAL STEEL:	CONTINUOUS	1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS.	IBC 1705.2.2.1; STRUCTURAL STEEL GENERAL NOTES	CWI AND ASNT
	CONTINUOUS	2. MULTIPASS FILLET WELDS.	AWS D1.1	CWI AND ASNT OR LICENSED ENGINEER
	CONTINUOUS	3. SINGLE-PASS FILLET WELDS > 5/16"		
	PERIODIC	4. SINGLE-PASS FILLET WELDS ≤ 5/16"		
	PERIODIC	5. FLOOR AND DECK WELDS.	AWS D1.3	
F. WELDING OF REINFORCING STEEL:	N/A	1. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A706.	IBC 1705.2.2.1.2	CWI/ASSOCIATE/TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
	N/A	2. REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.		
	N/A	3. SHEAR REINFORCEMENT.		
	N/A	4. OTHER REINFORCING STEEL.		

DEFERRED SUBMITTALS

BUILDING CONSTRUCTION	YES	NO	DESCRIPTION
STEEL		X	-
CONCRETE		X	-
WOOD		X	-

2B. PIER FOUNDATIONS				
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT.	N/A	1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDE IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.8 GEOTECHNICAL REPORT;	GRADUATE ENGINEER *QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	N/A	1. PROVIDE RECORD OF EACH PIER INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PIER.	IBC 1705.8 GEOTECHNICAL REPORT;	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077
3. CONCRETE CONSTRUCTION				
A. REINFORCING STEEL	PERIODIC	PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR; AND PLACEMENT AT THE FOLLOWING FREQUENCY: COLUMNS: 10% BEAMS: 30% JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20%	IBC 1704.4 ACI 318: CH. 3,5, 7.1-7.7; CONCRETE AND REINFORCING GENERAL NOTES.	*QUALIFICATIONS BASED ON ASTM E329
B. REINFORCING STEEL WELDING	-	NO FIELD WELDING PERMITTED.	AWS D1.4 ACI 318: 3.5.2	CWI OR ASSOCIATE CWI
C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
E. VERIFY USE OF CONCRETE MIX DESIGN	PERIODIC	EACH CONCRETE POUR.	ACI 318-CH. 4, 5.2-5.4	*QUALIFICATIONS BASED ON ASTM C1077
F. SAMPLING OF FRESH CONCRETE.	CONTINUOUS EACH CONCRETE POUR;	1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. TAKE SAMPLES & PERFORM SLUMP, AIR & COMPRESSION TESTS IN ACCORDANCE WITH ASTM C-39 ON CONCRETE PLACED EACH DAY AT THE RATE OF ONHE SET OF FOUR CYLINDERS FOR EACH 80 cu. yds. OR FRACTION THEREOF. WHEN MORE THAN 80 cu. yds. IS BEING CONTINUOUSLY PLACED, THE INTERVAL BETWEEN TEST SAMPLES SHALL BE AT LEAST 50 cu. yds. SO AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE THE POINT OD DEPOSIT IN THE FIELD & ALL CYLINDERS SHALL BE ACCURATELY MARKED & REFERENCED TO SHOW DATE, TIME & EXACT LOCATION IN THE STRUCTURE FROM WHICH THEY CAME. MAKE 7-DAY TEST ON TWO CYLINDERS & 28-DAY TEST ON TWO CYLINDERS. REPORST OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS: TWO TO THE POPIRC (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR.	ACI 318-CH. 5.6, 5.8	*QUALIFICATIONS BASED ON ASTM C1077
G. PLACEMENT OF CONCRETE & SHOTCRETE.	CONTINUOUS		ACI 318-CH. 5.9, 5.10	*QUALIFICATIONS BASED ON ASTM C1077
H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	PERIODIC	EACH CONCRETE POUR	ACI 318-CH. 5.11, 5.13	*QUALIFICATIONS BASED ON ASTM C1077
I. PRE-STRESSED CONCRETE	N/A	1. APPLICATION OF PRESTRESSING FORCE. 2. GROUTING OF BOUNDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS.		*QUALIFICATIONS BASED ON ASTM C1077
J. ERECTION OF PRECAST CONCRETE MEMBERS.	N/A			TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
K. POST-TENSIONED CONCRETE:	N/A	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS.		*QUALIFICATIONS BASED ON ASTM E329
	N/A	2. THE POST-TENSIONING ENGINEER, OR A MEMBER OF HIS STAFF, SHALL INSPECT THE TENDON PLACEMENT AND CHAIRING TO INSURE COMPLIANCE WITH THE INTENT OF THE DESIGN.		
	N/A	3. CONTINUOUS INSPECTION IS REQUIRED DURING ALL STRESSING ACTIVITIES.		
	N/A	4. RECORDS OF ALL JACKING FORCES AND ELINGATIONS SHALL BE MADE IN ACCORDANCE WITH THE PTI FIELD MANUAL AND RECORDS SHALL BE PROMPTLY SUBMITTED TO THE ARCHITECT AND ENGINEER.		

NOTES:

1 THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL OBSERVATIONS AS MAY REQUIRED BY IBC 2018,SECTION 1709, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT, (I.E. C141).

2 DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS - REF. IBC SECTION 1702
ADSC - THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING
ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING
ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS
AWS - AMERICAN WELDING SOCIETY
CWI - CERTIFIED WELDING INSPECTOR
CRSI - CONCRETE REINFORCING STEEL INSTITUTE
PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE
PTI - POST-TENSIONING INSTITUTE
N/A - NOT APPLICABLE

*TESTING AND INSPECTION DIRECTED BY ASTM E329 GUIDELINES.

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Pursuant to IBC Chapter 17 (1704.2.1) provide the following Special Inspector Qualifications to the RDPiRC prior to start of inspections;

1. Testing Laboratory Qualifications meeting ASTM0329 and accreditation by AASHTO and/or A2LA, and CCRL of the National Bureau of Standards.
2. Special Inspector's name and proof of meeting the qualification requirements set forth in
   a. ASTM C1077 for concrete,
   b. ASTM D3740 for soils,
   c. ASTM C1093 for masonry.
   d. ASTM D-2922 and D-3017 for Density control of compaction

IBC 1704.2.1 “written documentation demonstrating the competence and relevant experience or training of special inspectors who will perform special inspections and tests during construction. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities.” These qualifications are in addition to qualifications specified in other sections of the IBC.

TESTING & INSPECTION REQUIREMENTS (INCLUDING SPECIAL INSPECTIONS)

REQUIRED INSPECTION VERIFICATION, OR TEST	***VERIFICATION MONITORING FREQUENCY***	***TYPE AND/OR FREQUENCY OF TESTING***	***IBC SECTION & REFERENCE CRITERIA***	***INSPECTOR QUALIFICATIONS***
1. SOILS (SLAB ON GRADE)		SITE PREPARATION	IBC 1705.6	
A. SUB-GRADE 1. VISUAL OBSERVATION	PERIODIC	AT THE CONTRACTORS EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES.	GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR
2. PROOFROLLING OBSERVATIONS	PERIODIC	PROOFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE APPROVE THE TYPE OF PROOFROLLING EQUIPMENT AND PROCEDURES.	GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
3. MOISTURE CONDITIONING & RECOMPACTION	PERIODIC	PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
B. CHEMICAL INJECTION	N/A	QUALITY CONTROLLED TESTING AND EVALUATION PRIOR AND SUBSEQUENT TO INJECTION SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER TO DETERMINE THE EFFECTIVENESS OF THE CHEMICAL INJECTION PROCESS. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE INJECTION PROCESS TO VERIFY AREA COVERAGE, INJECTION DEPTH AND TO REVIEW AND MONITOR THE SWELL TEST RESULTS.	GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
C. DURING FILL PLACEMENT	PERIODIC	VISUAL OBSERVATIONS: DURING PLACEMENT AND COMPACTION OF FILL, SPECIAL INSPECTOR SHALL DETERMINE THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLY WITH ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE OFTEN IF MATERIAL APPEARS TO VARY.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
D. EVALUATION OF IN-PLACE DENSITY OF FILL	PERIODIC	PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
E. TRENCH BACKFILLING:	PERIODIC	TRENCH BACKFILLING: TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECHNICAL ENGINEER.		
2A. PILE FOUNDATIONS				
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PILE.	N/A	1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDE IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.7 GEOTECHNICAL REPORT;	GRADUATE ENGINEER *QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	N/A	1. PROVIDE RECORD OF EACH PILE INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE.	IBC 1705.7 GEOTECHNICAL REPORT;	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SPECIAL INSPECTIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-102

LA PROJECT NO.: 85-008400
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

LEVEL 2 INSPECTION CONT.:				
C. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
D. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	N/A			
E. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.	N/A	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093
7. WOOD CONSTRUCTION		IBC 1704.6		
A. PREFABRICATED STRUCTURAL ELEMENTS & ASSEMBLIES	N/A	INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. **EXCEPTION:** SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IS RESPONSIBLE CHARGE.	IBC 1705.5	TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER
B. SITE BUILT ASSEMBLIES	N/A	SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1	IBC 1705.5	LICENSED ENGINEER OR HISHER REPRESENTATIVE.
C. DIAPHRAGMS	N/A	HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL/STAPLE DIAMETER AND LENGTH, AND FASTENER PATTERN.	IBC 1705.5.1	
D. TRUSS BRACING	N/A	CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS.		
8. LIGHT GAGE FRAME CONSTRUCTION		IBC 1704.13		
A. PREFABRICATED STRUCTURAL ELEMENTS & ASSEMBLIES	N/A	INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. **EXCEPTION:** SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IS RESPONSIBLE CHARGE.	IBC 1705.5.1	TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER
B. SITE BUILT ASSEMBLIES	N/A	SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1	IBC 1705.5.1	LICENSED ENGINEER OR HISHER REPRESENTATIVE.
C. DIAPHRAGMS	N/A	HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL/STAPLE DIAMETER AND LENGTH, AND FASTENER PATTERN.	IBC 1705.10.3	
D. TRUSS BRACING	N/A	CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS.		

LEVEL 1 INSPECTION CONT.:				
C. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	N/A	1. GROUT SPACE IS CLEAN.		
	N/A	2. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.		
	N/A	3. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.		
	N/A	4. CONSTRUCTION OF MORTAR JOINTS.		
D. GROUT PLACEMENT	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
	N/A	2. GROUTING OF PRESTRESSING BONDED TENDONS.		
E. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
F. COMPLIANCE WITH REQUIRED INSPECTION PROVISION OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
G. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.	N/A	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093
H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	N/A	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, MASONRY TYPE AND COMPRESSION STRENGTH, PRE DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH, D.9.1	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE
LEVEL 2 INSPECTION:		ENGINEERED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.3	QUALIFICATIONS BASED ON C1093
A. FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	N/A	1. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS.		
	N/A	2. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS.		
	N/A	3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.		
	N/A	4. GROUT SPACE PRIOR TO GROUTING.		
	N/A	5. PLACEMENT OF GROUT.		
	N/A	6. PLACEMENT OF PRESTRESSING GROUT.		
B. THE INSPECTION PROGRAM SHALL VERIFY:	N/A	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		
	N/A	2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.		
	N/A	3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.		
	N/A	4. WELDING OF REINFORCEMENT.		
	N/A	PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F).		
	N/A	6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.		

5. INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL				
FABRICATION & IMPLEMENTATION PROCEDURES	PERIODIC	FABRICATION AND IMPLEMENTATION PROCEDURES. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. **EXCEPTION:** SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2.1	CWI, ASNT, LICENSED ENGINEER
6. MASONRY CONSTRUCTION				
EMPIRICALLY DESIGNED MASONRY, GLASS UNIT MASONRY, AND MASONRY VENEER IN NON-ESSENTIAL FACILITIES.	SPECIAL INSPECTIONS NOT REQUIRED PER 1704.5.1		IBC 1705.4	
LEVEL 1 INSPECTION:		ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPIRICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1705.4	QUALIFICATIONS BASED ON ASTM C1093
A. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	N/A	1. PROPORTIONS OF SITE-PREPARED MORTAR.		
	N/A	2. CONSTRUCTION OF MORTAR JOINTS.		
	N/A	3. LOCATION OF REINFORCEMENT AND CONNECTORS.		
	N/A	4. PRESTRESSING TECHNIQUE		
	N/A	5. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		
B. THE INSPECTION PROGRAM SHALL VERIFY:	N/A	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		
	N/A	2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTUCTION.		
	N/A	3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.		
	N/A	4. WELDING OF REINFORCING BARS.		
	N/A	5. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F).		
	N/A	6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.		

NOTES:

1 THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL OBSERVATIONS AS MAY REQUIRED BY IBC 2018, SECTION 1709, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT, (I.E. C141).

2 DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS - REF. IBC SECTION 1702
ADSC - THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING
ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING
ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS
AWS - AMERICAN WELDING SOCIETY
CWI - CERTIFIED WELDING INSPECTOR
CRSI - CONCRETE REINFORCING STEEL INSTITUTE
PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE
PTI - POST-TENSIONING INSTITUTE
N/A - NOT APPLICABLE

*TESTING AND INSPECTION DIRECTED BY ASTM E329 GUIDELINES.

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DATE: 02/25/2026

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LICENSED PROFESSIONAL ENGINEER

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SPECIAL INSPECTIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-103

LA PROJECT NO. 85-009-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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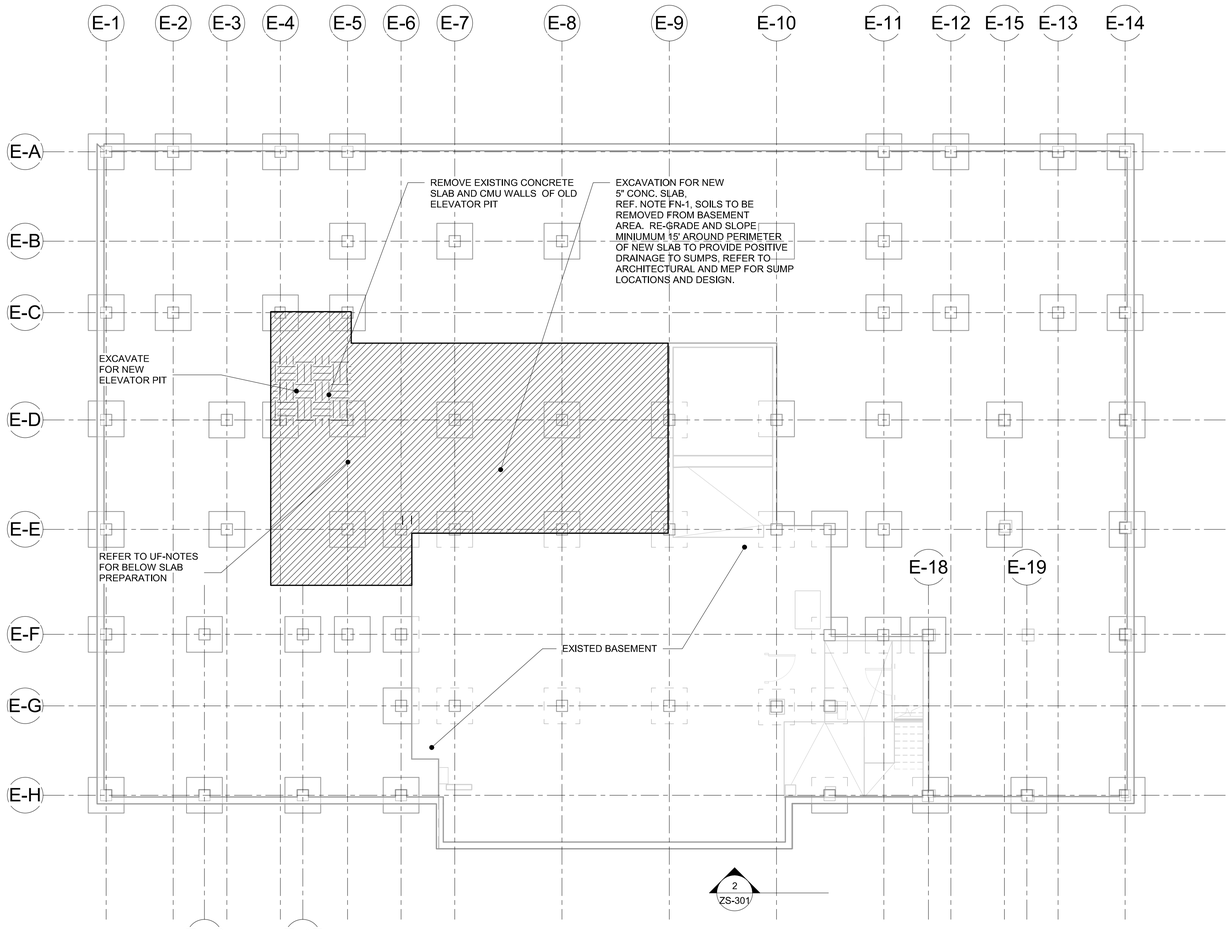

1 BASEMENT DEMOLITION PLAN
1/8" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT PLAN PHASE II DEMOLITION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-200

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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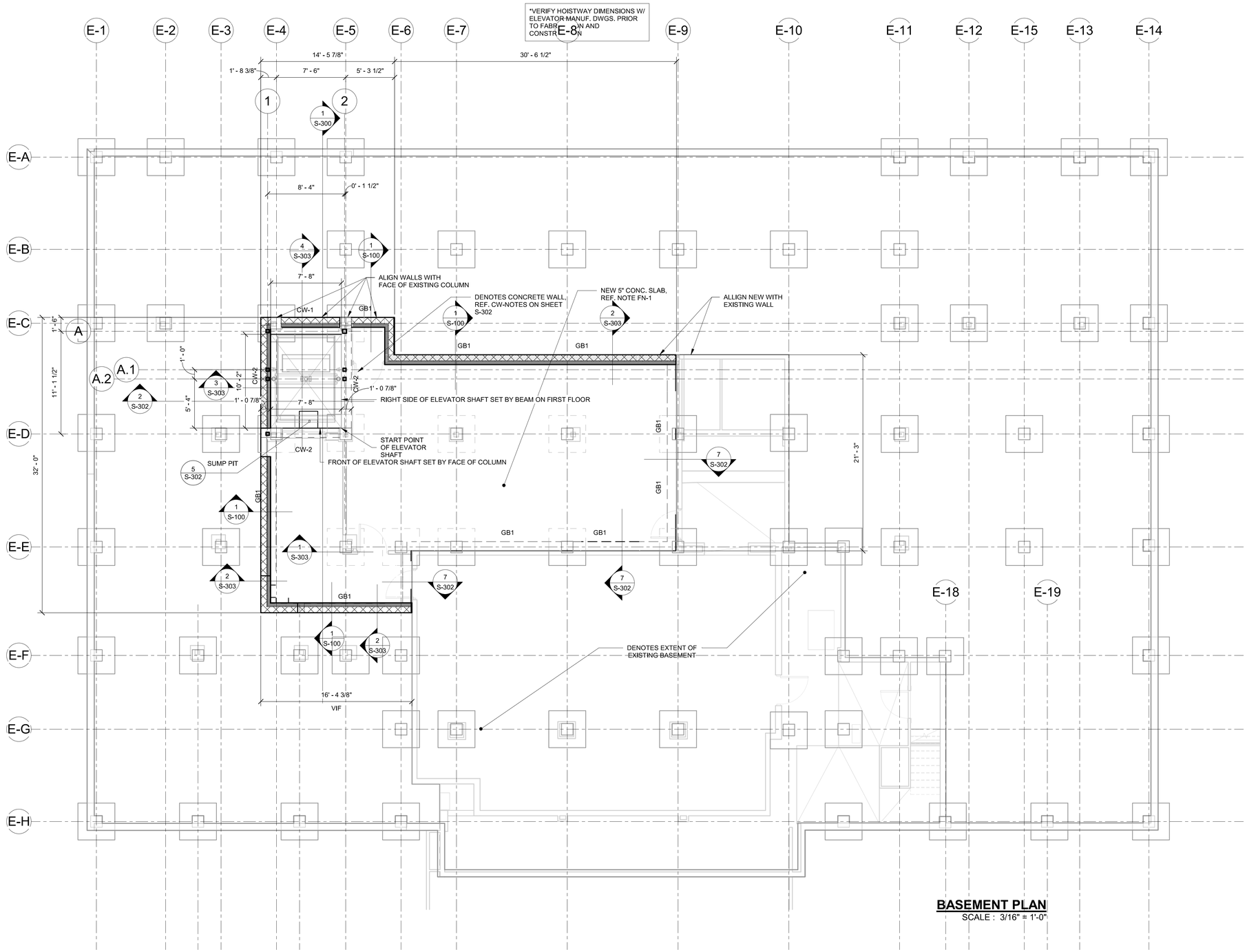

BASEMENT PLAN
SCALE : 3/16" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT PLAN PHASE II

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-200A

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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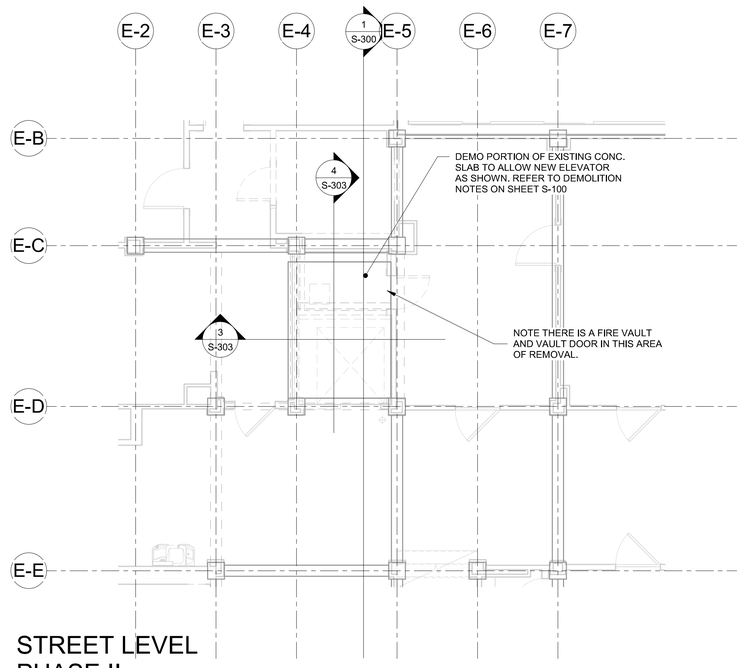

STREET LEVEL PHASE II - DEMOLITION

1 3/16" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXISTING STREET LEVEL PHASE II DEMOLITION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-201

LA PROJECT NO.: 85-009-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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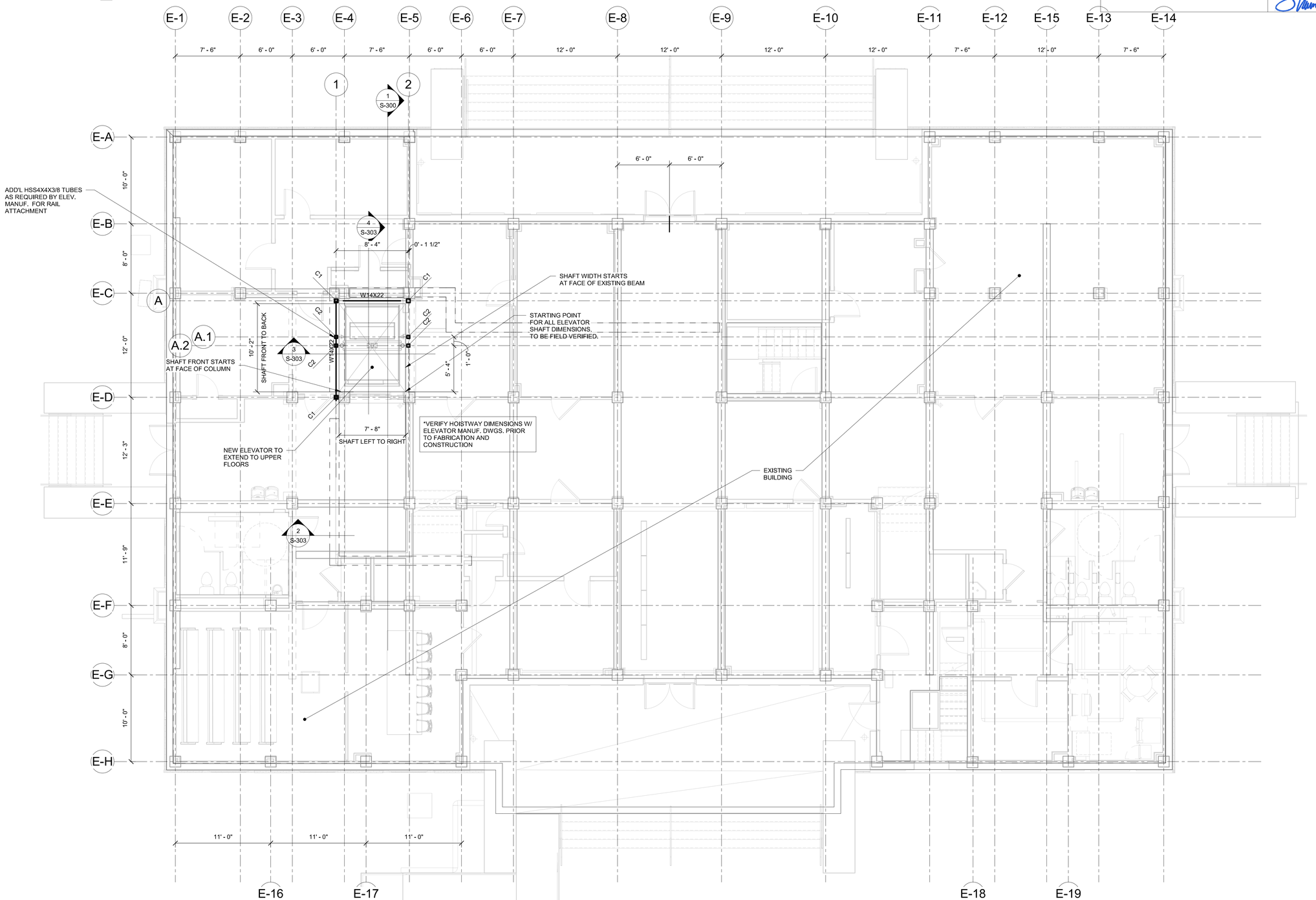

STREET LEVEL PHASE II PLAN
SCALE : 3/16" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXISTING STREET LEVEL PHASE II

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-201A

LA PROJECT NO.: 85-009-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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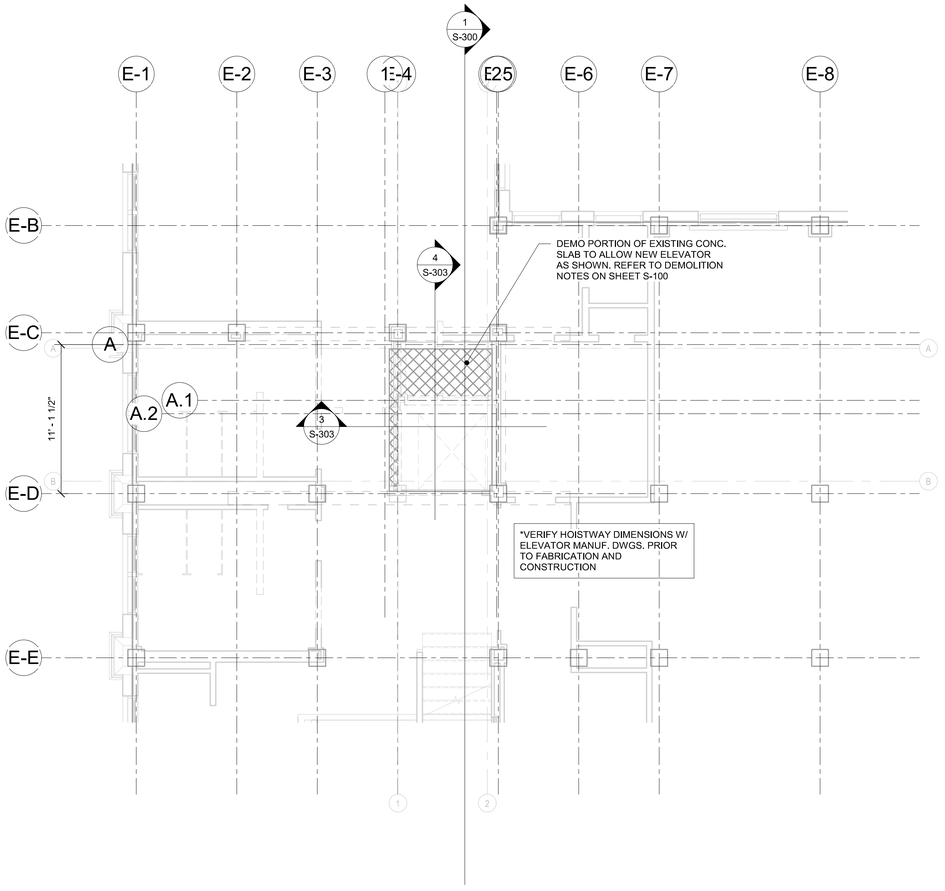

1 LEVEL 2 PLAN
3/16" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXISTING SECOND FLOOR PLAN PHASE II DEMOLITION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-202

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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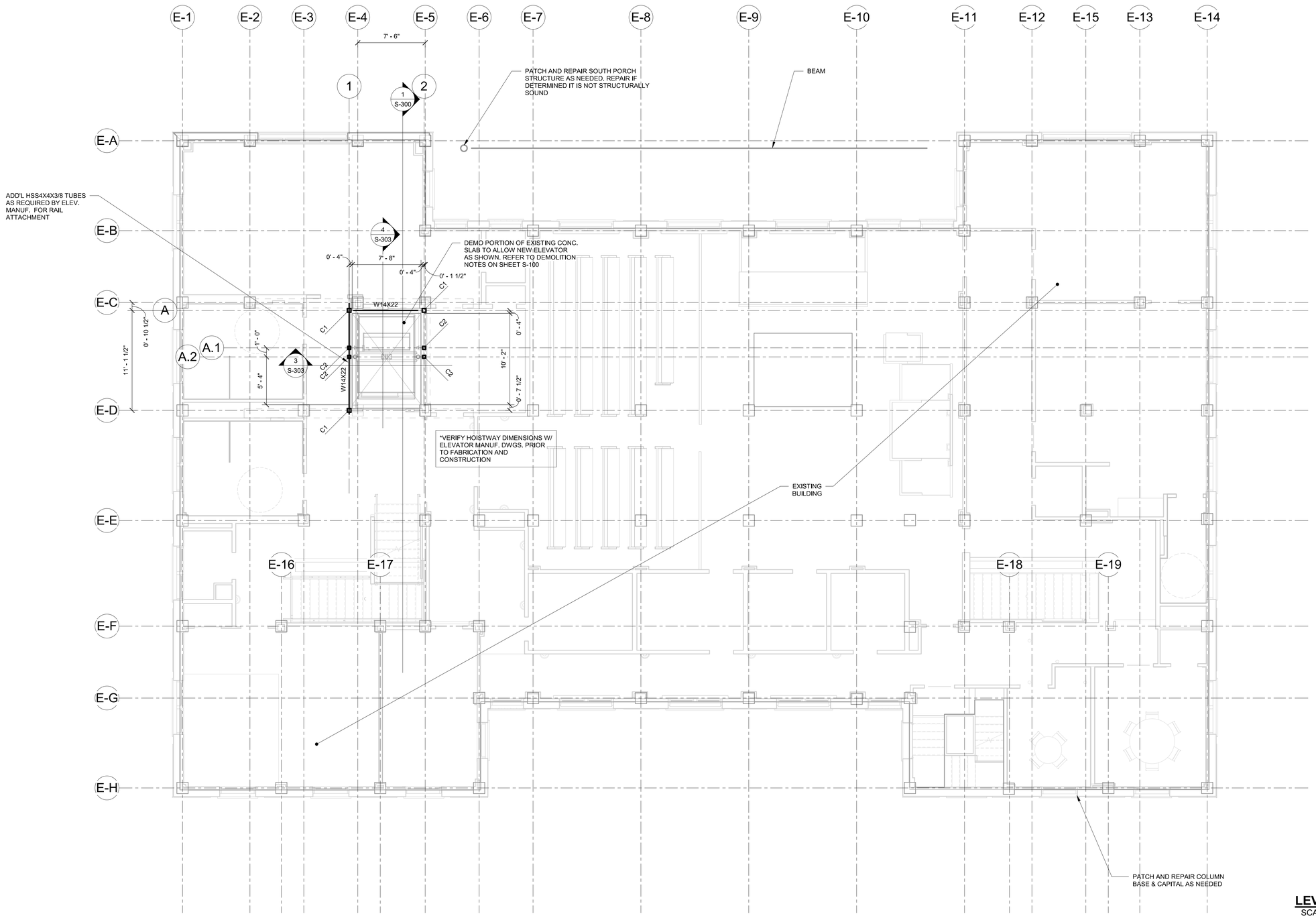

LEVEL 2 PLAN
SCALE : 3/16" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXISTING SECOND FLOOR PLAN PHASE II

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-202A

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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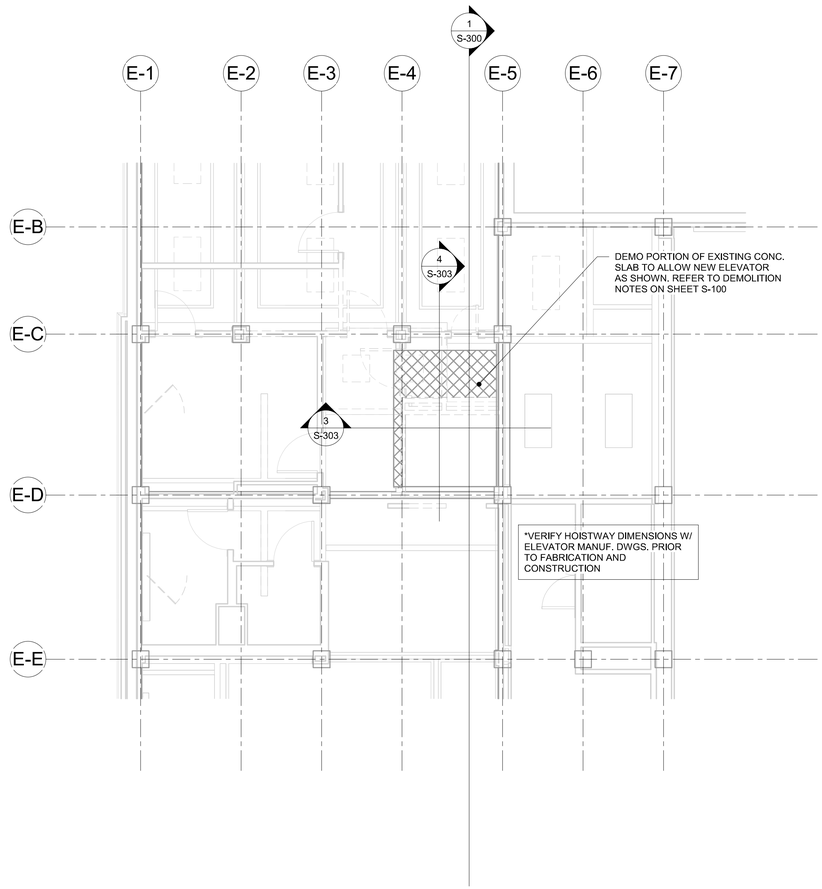

1 LEVEL 3 PLAN
3/16" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXISTING THIRD FLOOR PLAN PHASE II DEMOLITION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-203

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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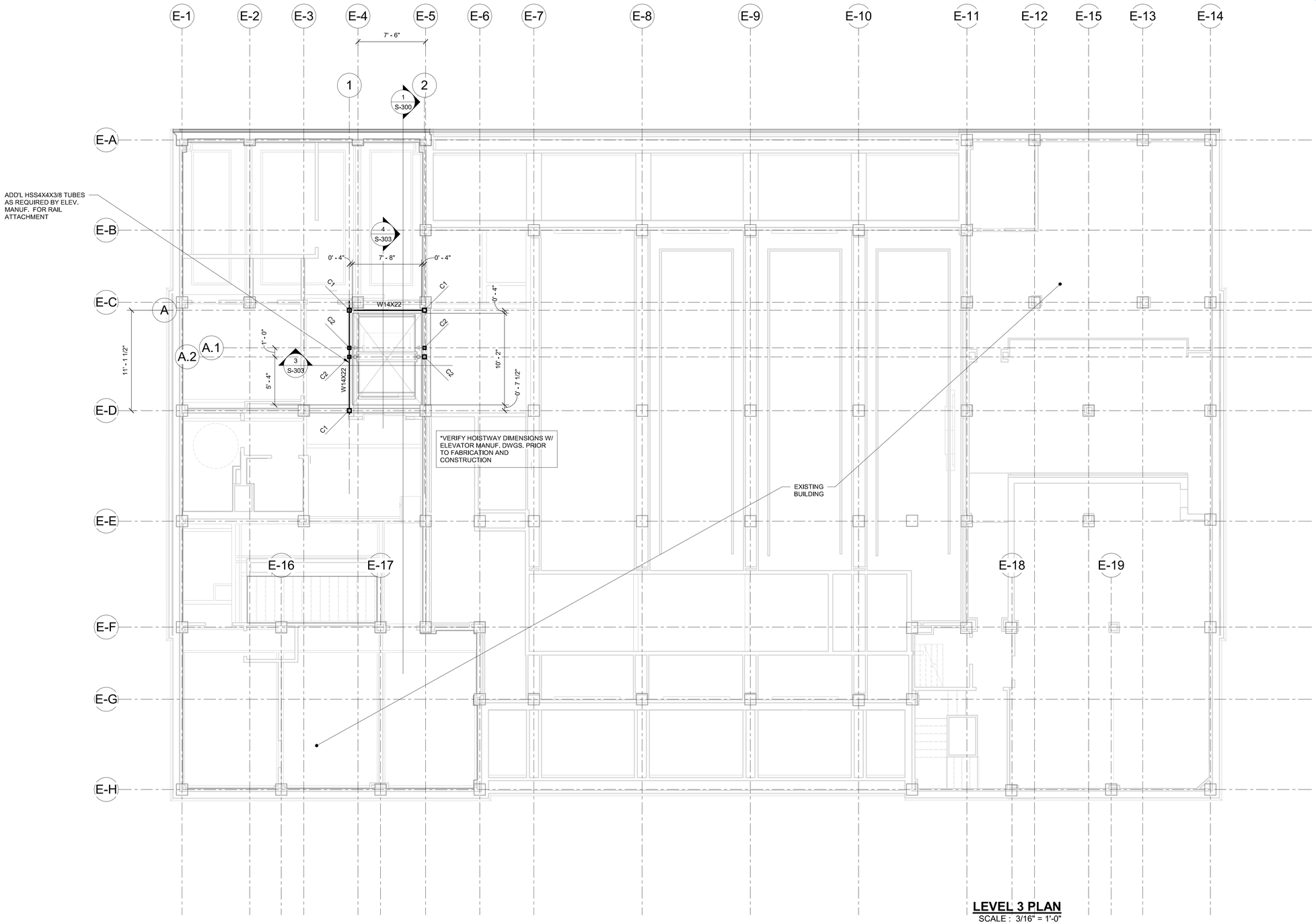


LEVEL 3 PLAN
SCALE : 3/16" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

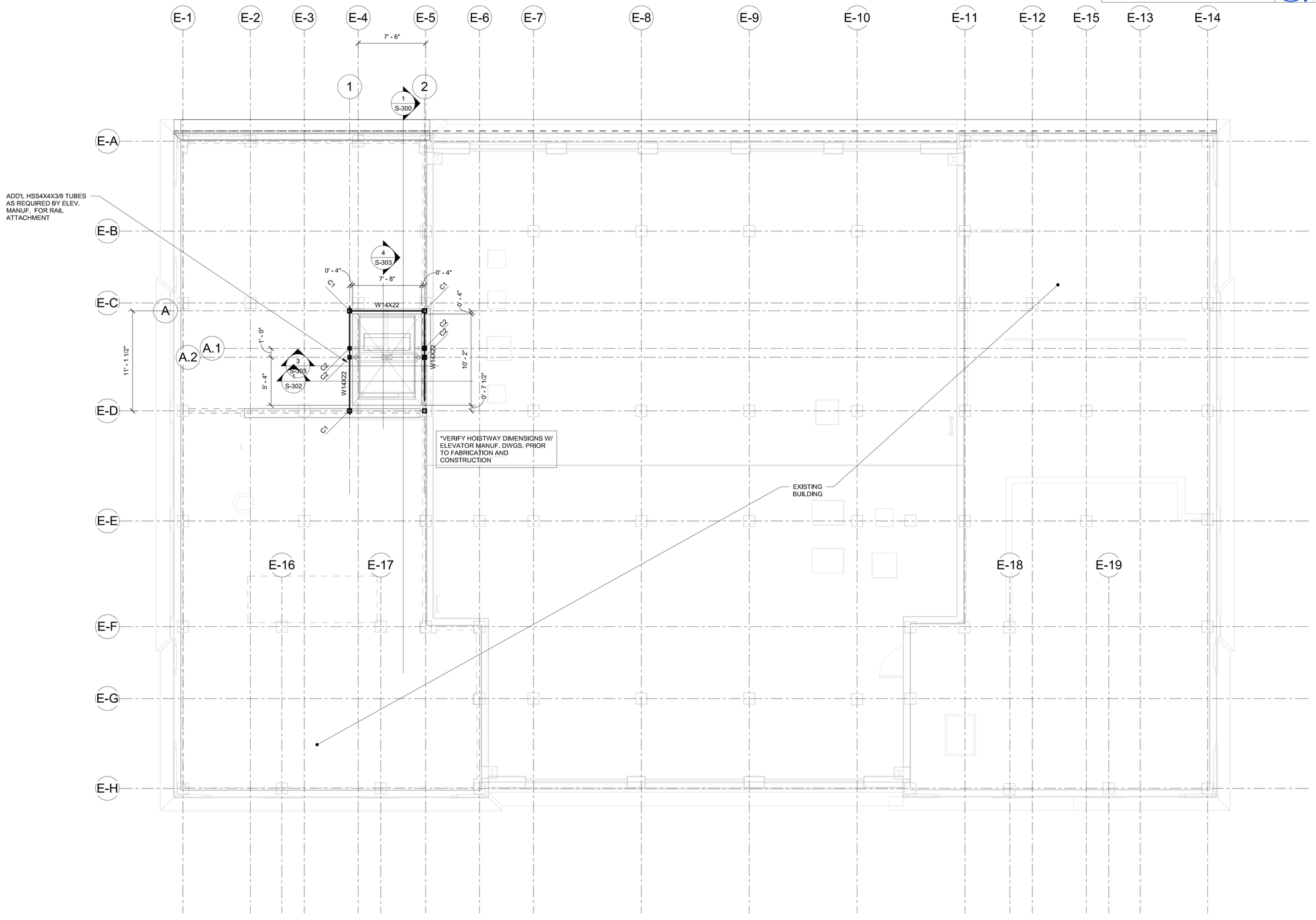
SHEET TITLE: EXISTING THIRD FLOOR PLAN PHASE II

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-203A

LA PROJECT NO.: 85-009-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24



ROOF LEVEL PLAN
SCALE : 3/16" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: EXISTING ROOF PLAN PHASE II

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-204

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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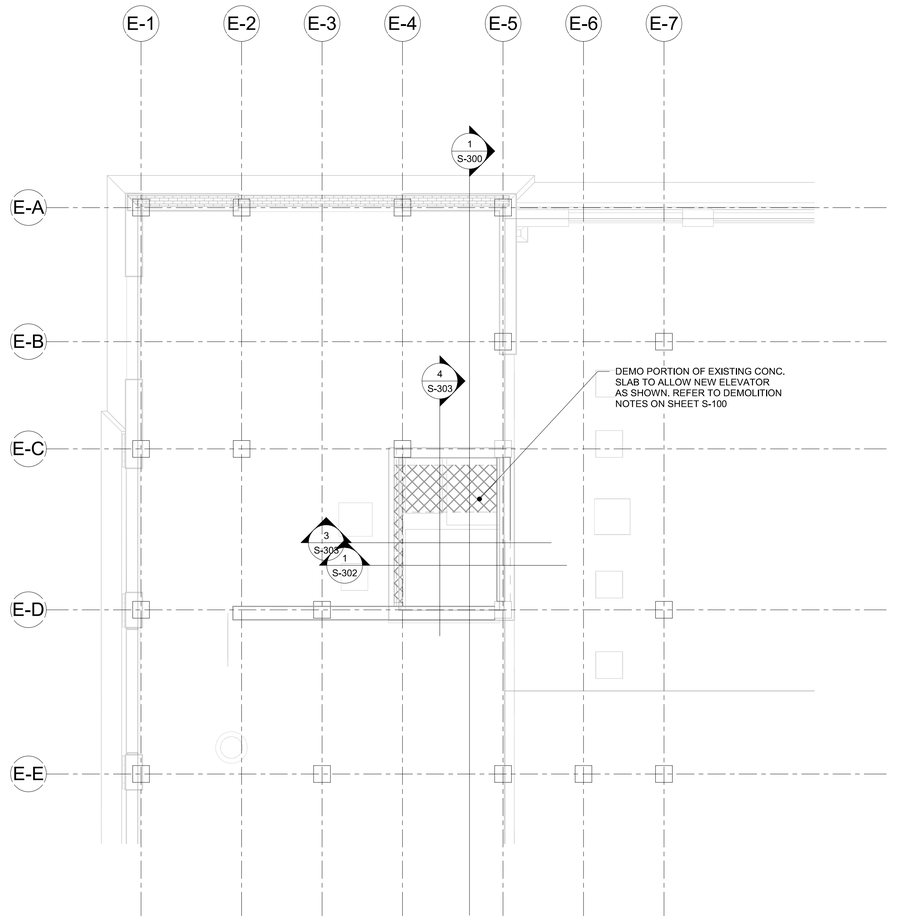

1 HIGH ROOF LEVEL PLAN

3/16" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: HIGH ROOF PLAN PHASE II DEMOLITION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-205

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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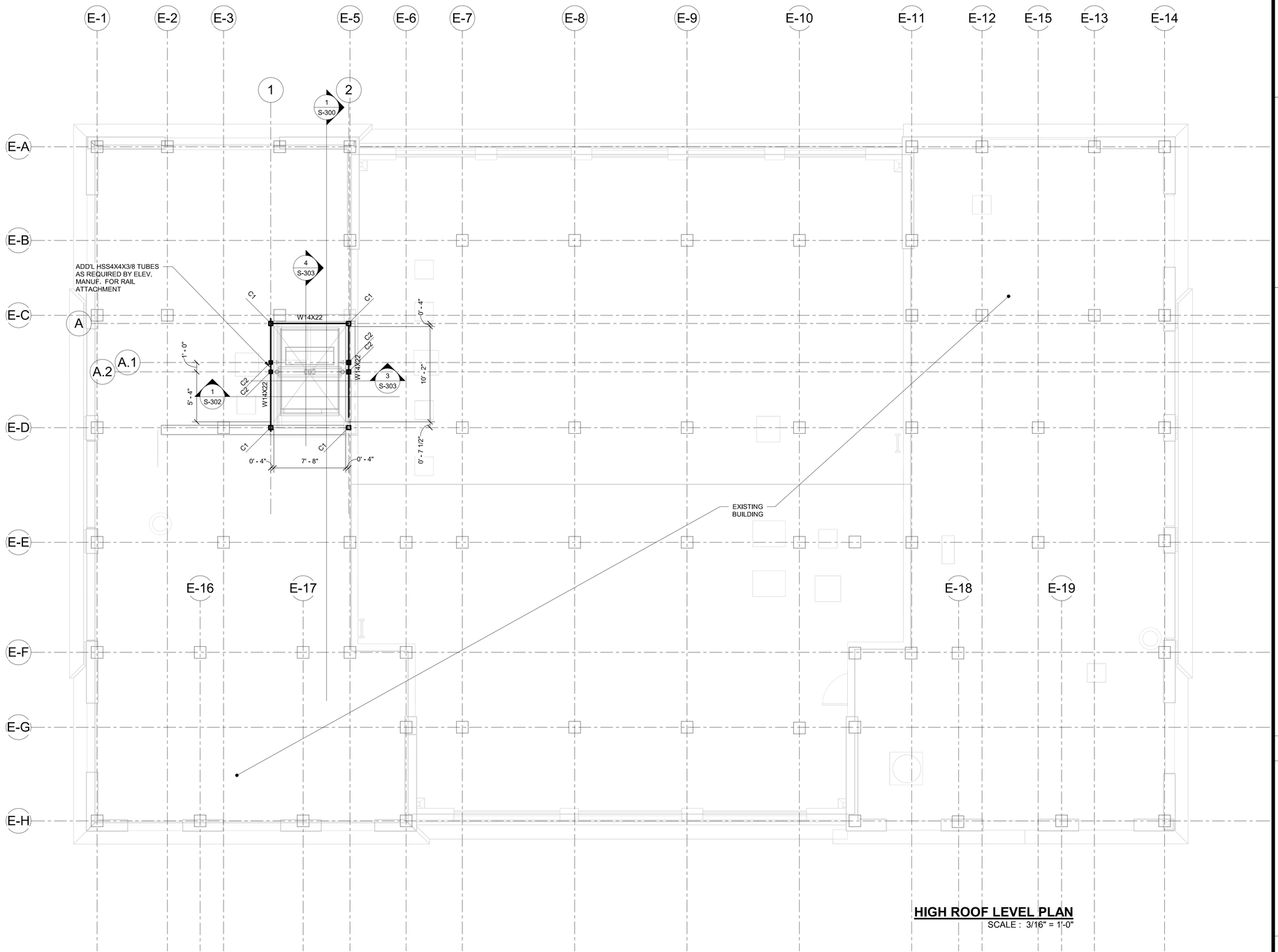


HIGH ROOF LEVEL PLAN
SCALE : 3/16" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

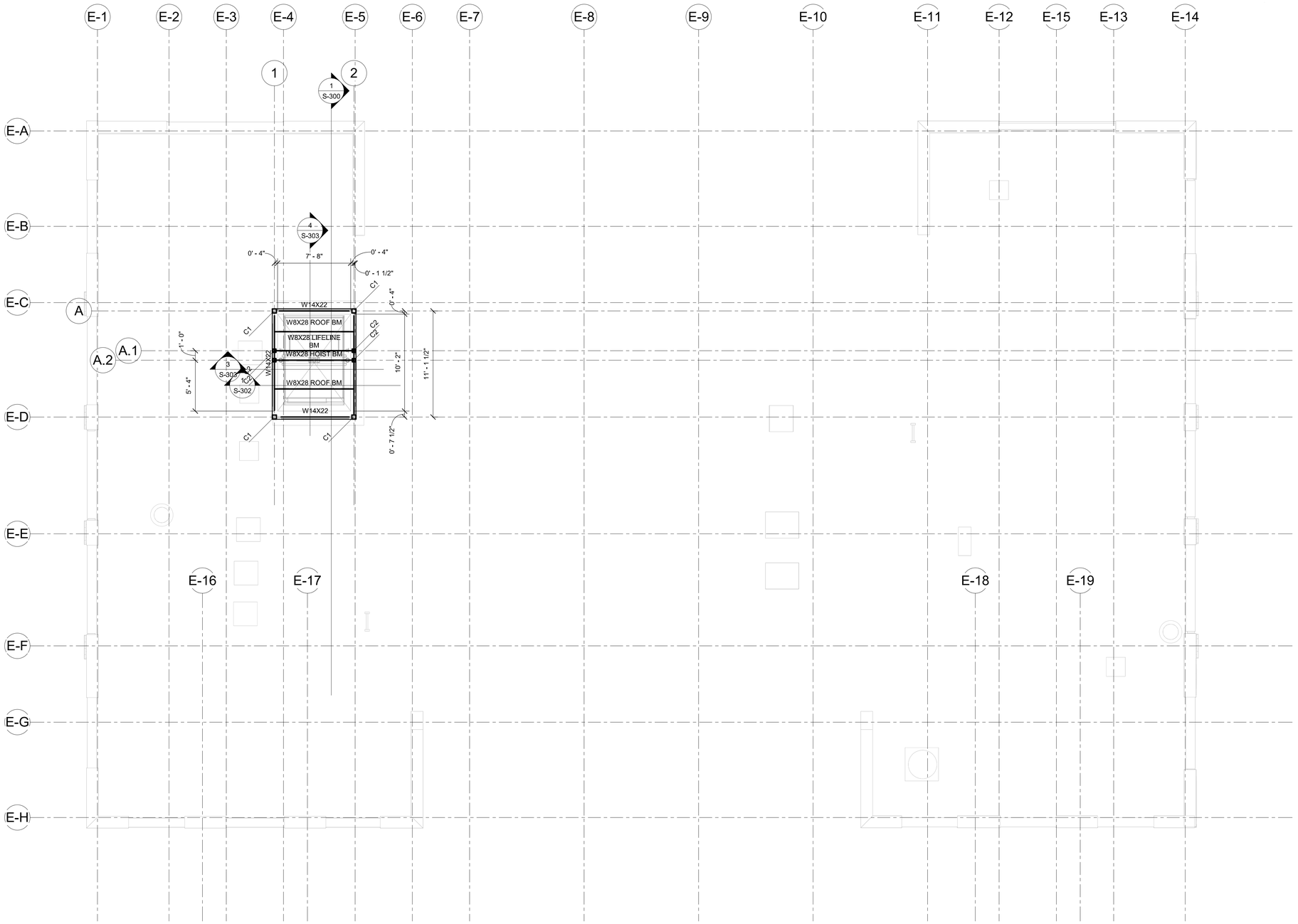
SHEET TITLE: HIGH ROOF PLAN PHASE II

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-205A

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24



ELEVATOR TOP HOUSE
SCALE : 3/16" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

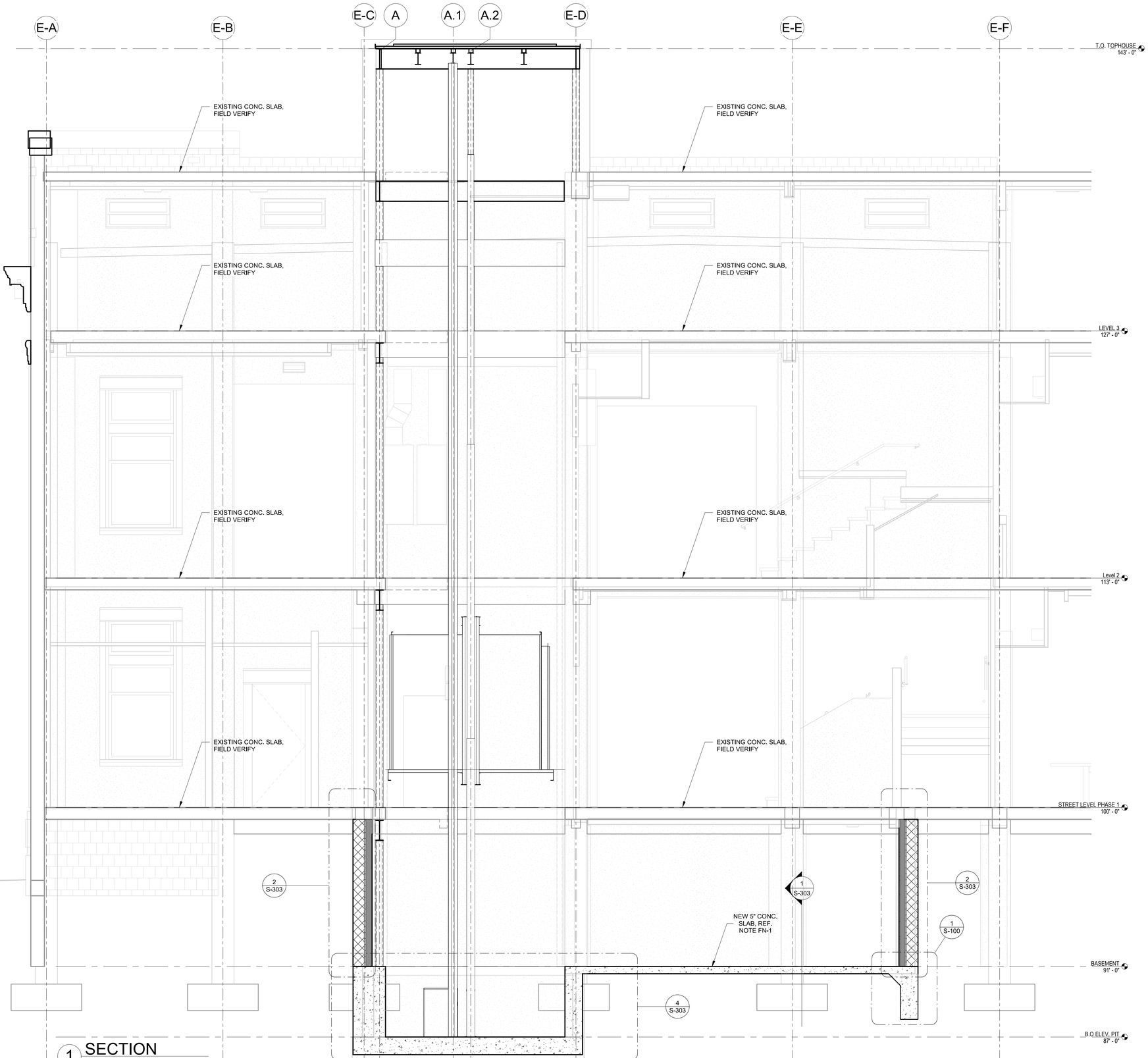
SHEET TITLE: ELEVATIOR TOPHOUSE

PROJECT NO: 2308 A1

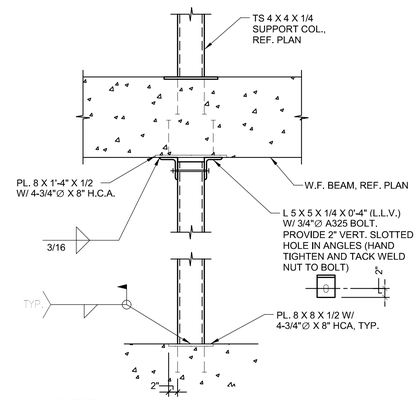
△ REVISIONS DATE

SHEET NO: S-206

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24



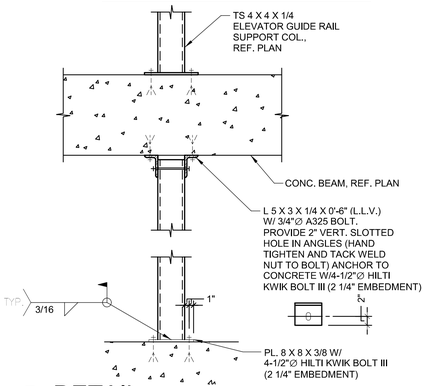
1 SECTION
3/8" = 1'-0"



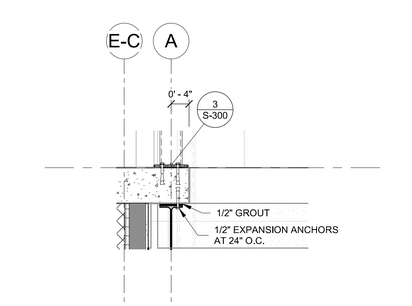
2 DETAIL
3/4" = 1'-0"

NOTE:

CONTRACTOR SHALL NOT DAMAGE ANY REBAR DURING INSTALLATION OF ANCHORS.



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



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

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SAN ANTONIO, TEXAS 78232 FX. (210) 979-7800
TX FIRM REG. #3388

DATE: 02/25/2026

STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER

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915 SOUTH ST MARY'S STREET
SAN ANTONIO, TEXAS
FISHERHECK.COM
210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECTIONS PHASE II

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-300

LA PROJECT NO. 85-009-00
LA FILE NO., LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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TX FIRM REG. #3388

DATE: 02/25/2026
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SAN ANTONIO, TEXAS
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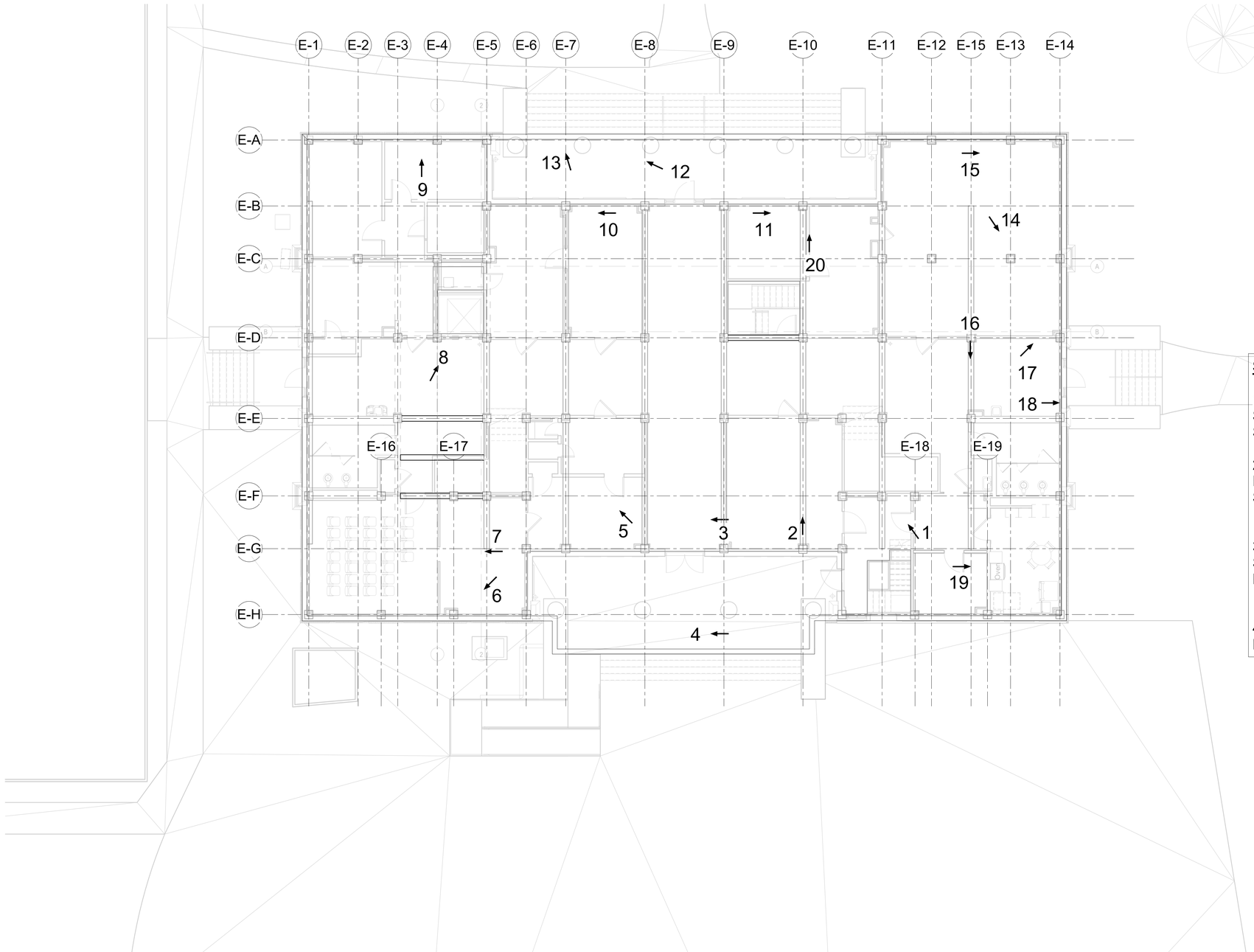


SLAB REPAIR NOTES:

1. REMOVE ALL LOOSE CONCRETE. SEE IMAGES ON SHEETS S-303 - S-314.

2. SANDBLAST ALL RUST FROM EXPOSED REBAR. SEE IMAGES ON SHEETS S-303 - S-314.

3. REFER TO REPAIR SPECIFICATIONS FOR SURFACE PREP.

4.PATCH WITH RECOMMENDED MATERIAL.

REPAIR STREET LEVEL
SCALE : 1/8" = 1'-0"

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIRS AT STREET LEVEL PHASE II

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-301

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

CONCRETE WALL NOTES:

CW-1 UNLESS SHOWN OTHERWISE, AT CORNERS, ANGLE BENDS, AND AT JUNCTION WITH OTHER WALLS, LAP ALL HORIZONTAL BARS PER REINFORCING BAR LAP SCHEDULE.

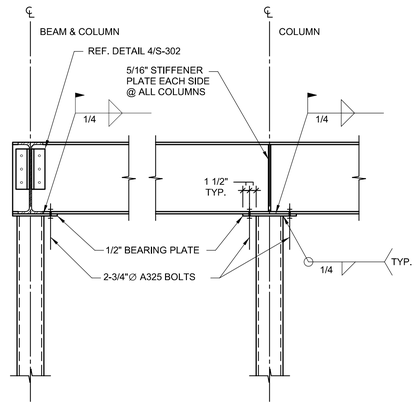
CW-2 UNLESS SHOWN OTHERWISE, WHERE WALLS STOP, POSITION TWO (2) OF THE WALL VERTICAL BARS AT THE END OF THE WALL; PROVIDED THAT VERTICAL BARS ARE #6 OF LARGER, IF WALL VERTICAL BARS ARE SMALLER THAT #6, USE 2-#6 AT WALL VERTICAL BARS, PROVIDE #4 U-BARS (60 DIAMETER LAPS) ENCLOSING VERTICAL BARS AT END FACES, SAME SPACING AS HORIZONTAL BARS.

CW-3 UNLESS SHOWN OTHERWISE, ADD 2-#6 BARS IN EACH FACE OVER OPENING, EXTENDING 60 DIAMETERS BEYOND LIMITS OF OPENING, AND ADD 2 -#5x5-0" PLACED DIAGONALLY AT EACH CORNER OF OPENING. PROVIDE #4 U-BARS (60 DIAMETERS LAPS) AT END FACES FOR EACH BAR (HORIZONTAL OR VERTICAL) INTERRUPTED BY OPENING. U-BARS SHALL ENCLOSE HORIZONTAL OR VERTICAL BARS AT OPENING. NOTIFY A/E PRIOR TO FABRICATION AND CONSTRUCTION FOR OPENINGS LARGER THAN 2'-0"x2'-0".

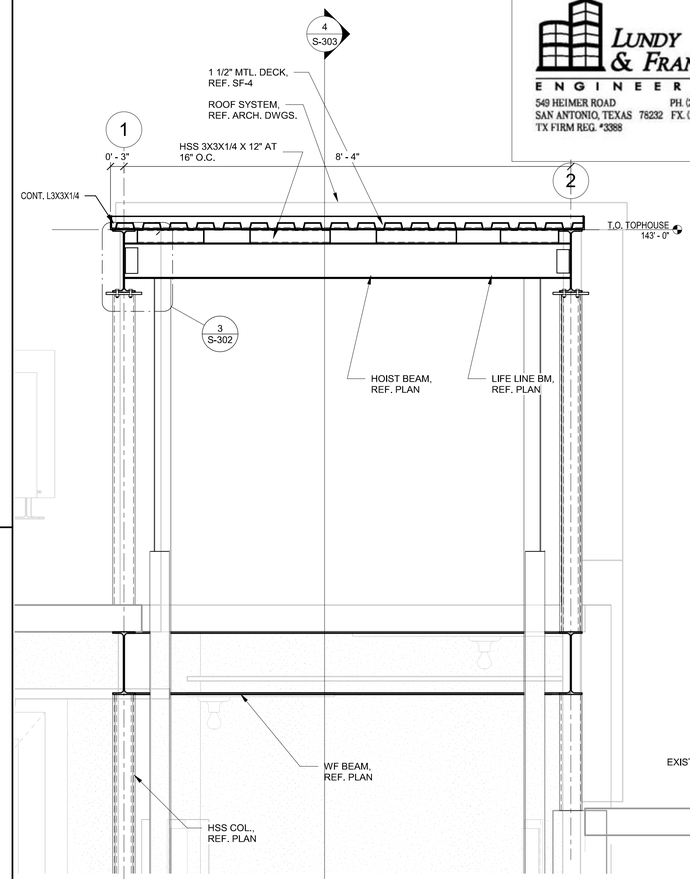
CW-4 UNLESS SHOWN OTHERWISE, USING REINFORCING BAR LAP SCHEDULE LAP WALL DOWELS FROM BEAM OR FOOTING TO MATCH THE SIZE AND SPACING OF ALL VERTICAL BARS IN WALL ABOVE; EXTEND INTO BEAM/FTG. AND INTO WALL USING REINFORCING BAR LAP SCHEDULE. AT CONSTRUCTION JOINTS, EITHER CONTINUE ALL VERTICAL BARS PROVIDE LAPS OF ALL VERTICAL BARS INTO BEAM/FTG. AND INTO WALL ABOVE USING REINFORCING BAR LAP SCHEDULE.

CONCRETE WALL SCHEDULE

MARK	THICKNESS	VERTICAL BARS			HORIZONTAL BARS			CONCRETE STRENGTH	REMARKS
		I.S. FACE	O.S. FACE	CENTER	I.S. FACE	O.S. FACE	CENTER		
CW-1	22"	#5 @ 12"o.c.	#5 @ 12"o.c.	-	#4 @ 12"o.c.	#4 @ 12"o.c.	-	4,000 PSI	REF. CW-NOTES
CW-2	12 7/8"	#5 @ 12"o.c.	#5 @ 12"o.c.	-	#4 @ 12"o.c.	#4 @ 12"o.c.	-	4,000 PSI	REF. CW-NOTES



3 DETAIL
N.T.S.



1 SETION
3/4" = 1'-0"

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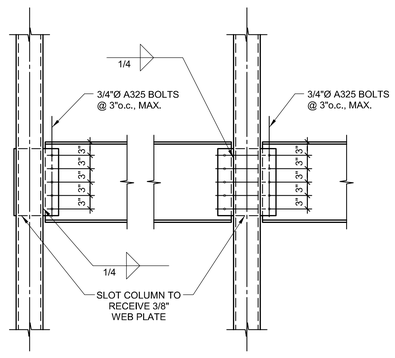
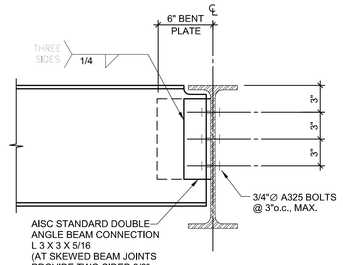
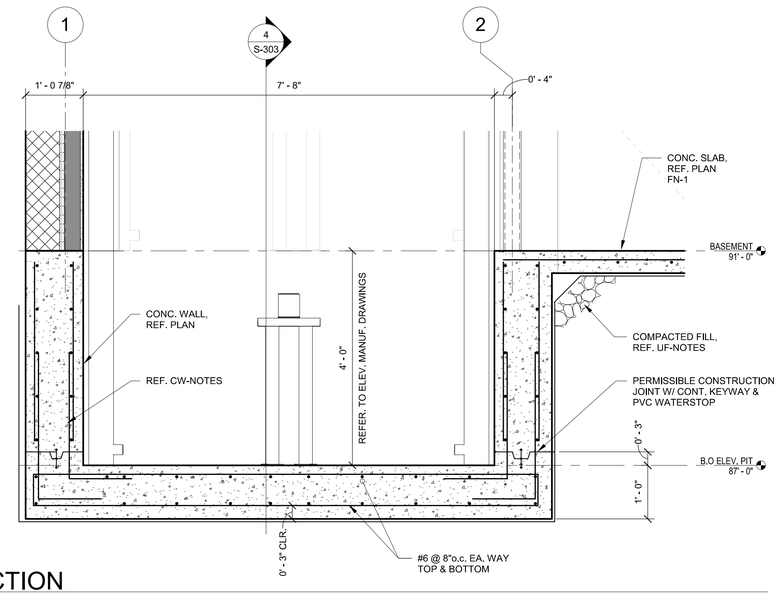


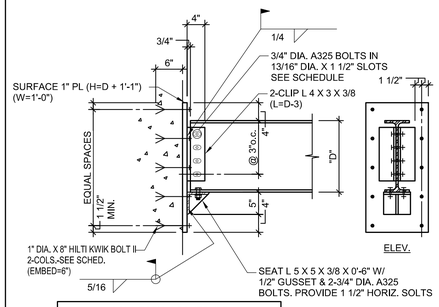
6 DETAIL
N.T.S.



4 DETAIL
N.T.S.



2 SECTION
3/4" = 1'-0"

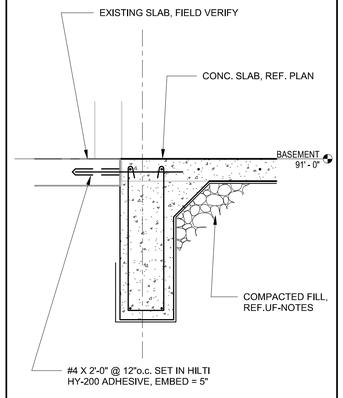


CONNECTION SCHEDULE		
BM. "D"	A325 BOLTS	EXP. BOLTS
12"	3	5 ROWS
14"	3	6 ROWS
16"	4	6 ROWS
18"	5	7 ROWS
21"	6	8 ROWS
24"	7	10 ROWS
27"	8	10 ROWS
30"	9	11 ROWS

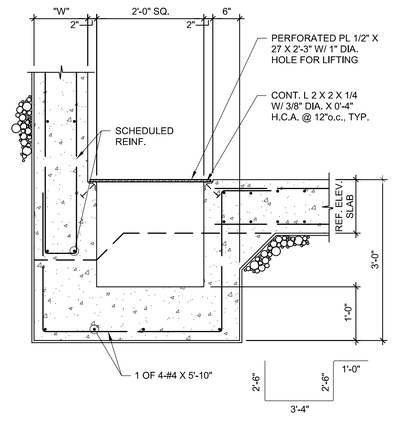
SEE SPECIAL DETAILS FOR LARGER BEAMS

NOTE:
ANCHORS SHALL BE 6" FROM ANY LOADED EDGE OF CONCRETE

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



7 SECTION
3/4" = 1'-0"



5 DETAIL
N.T.S.

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

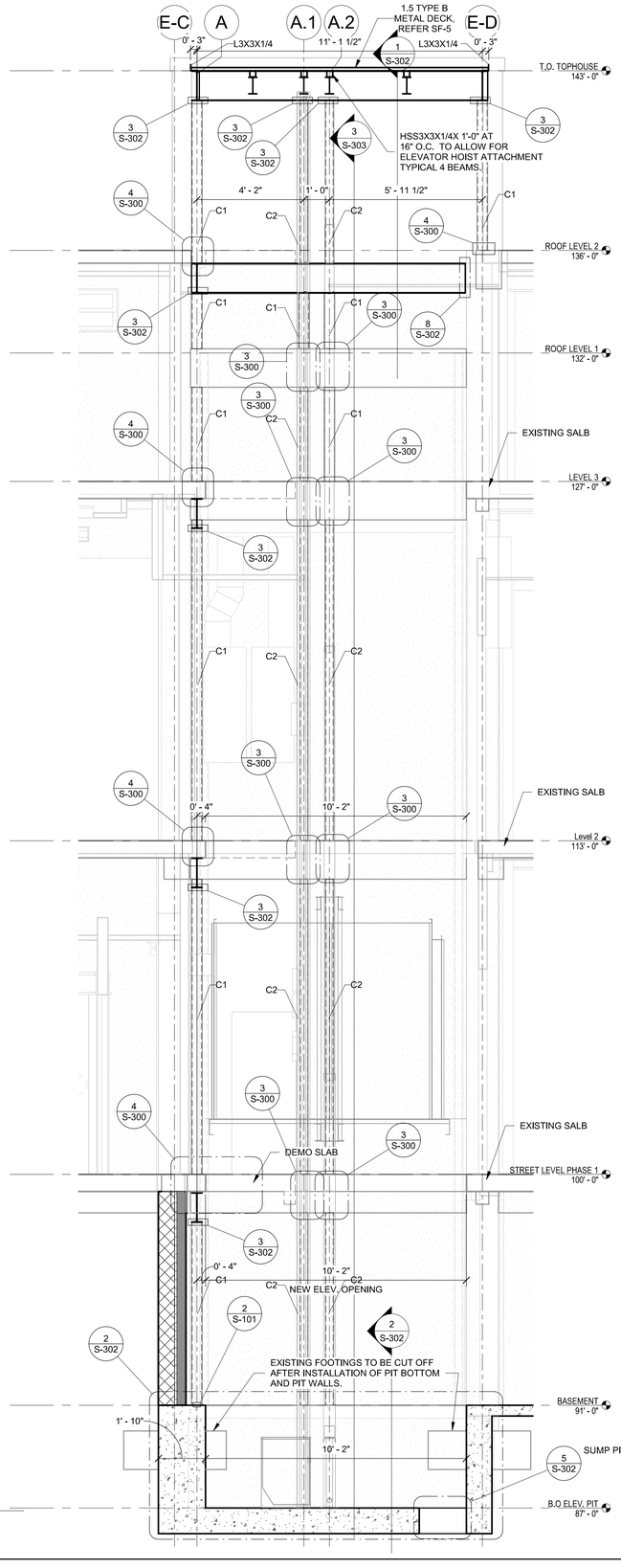
SHEET TITLE: SECTIONS & CONC. WALL NOTES & SCHEDULE PHASE II

PROJECT NO: 2308 A1

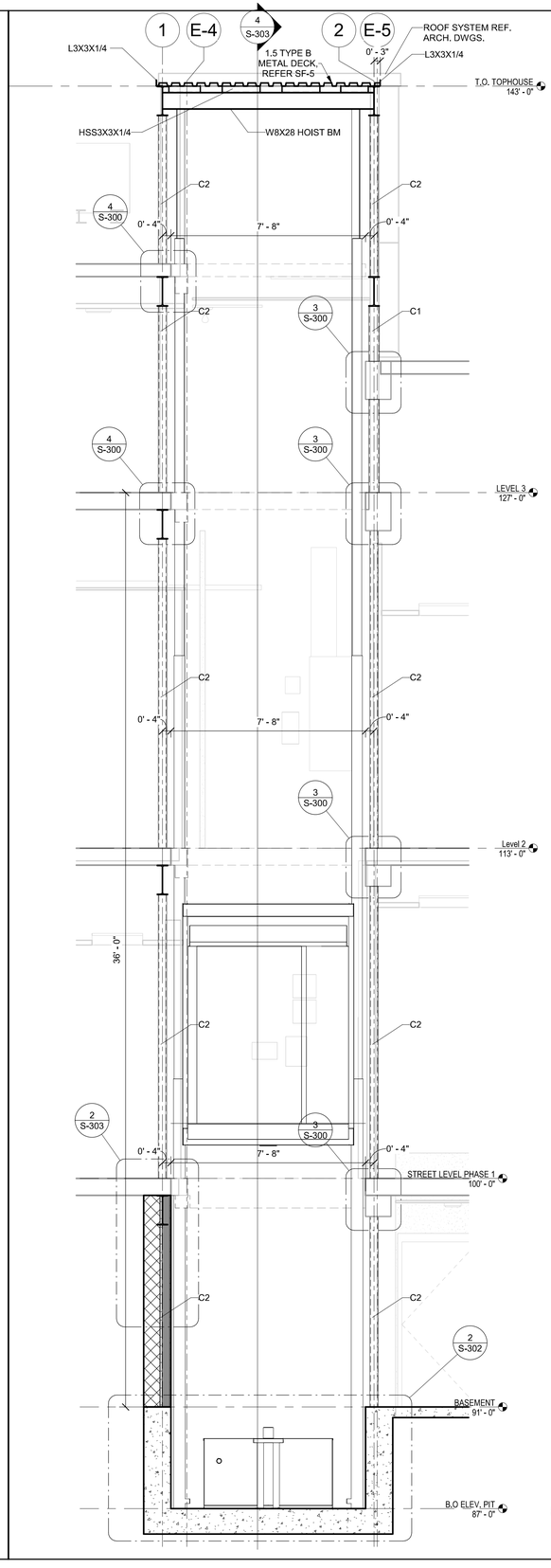
REVISIONS	DATE

SHEET NO: S-302

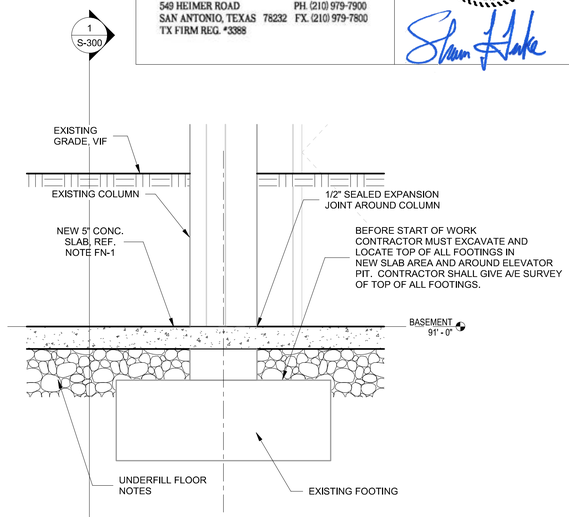
LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24



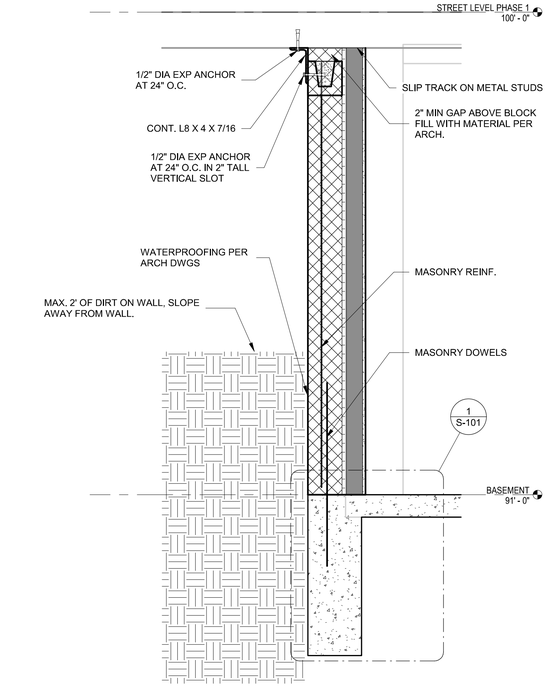
4 SECTION
3/8" = 1'-0"



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



1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"

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STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER

Fisher Heck ARCHITECTS
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SAN ANTONIO, TEXAS
FISHERHECK.COM
210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECTION PHASE II

PROJECT NO: 2308 A1

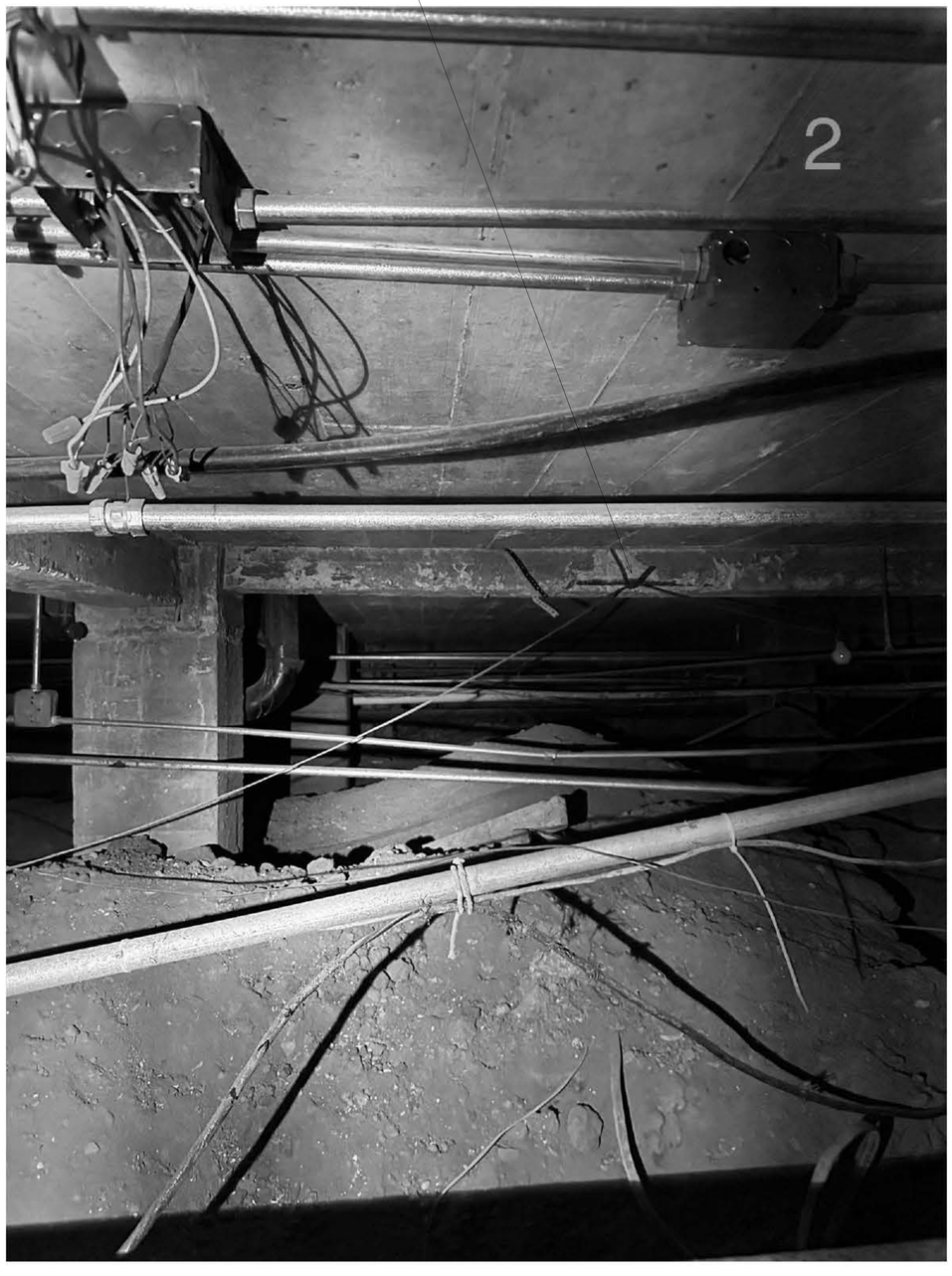
△ REVISIONS DATE

SHEET NO: S-303

LA PROJECT NO. 85-009-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

3/S-101
APPROXIMATELY 4 SF

5/S-101
APPROXIMATELY 5 LF



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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTOS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-304

LA PROJECT NO.: 85-008400
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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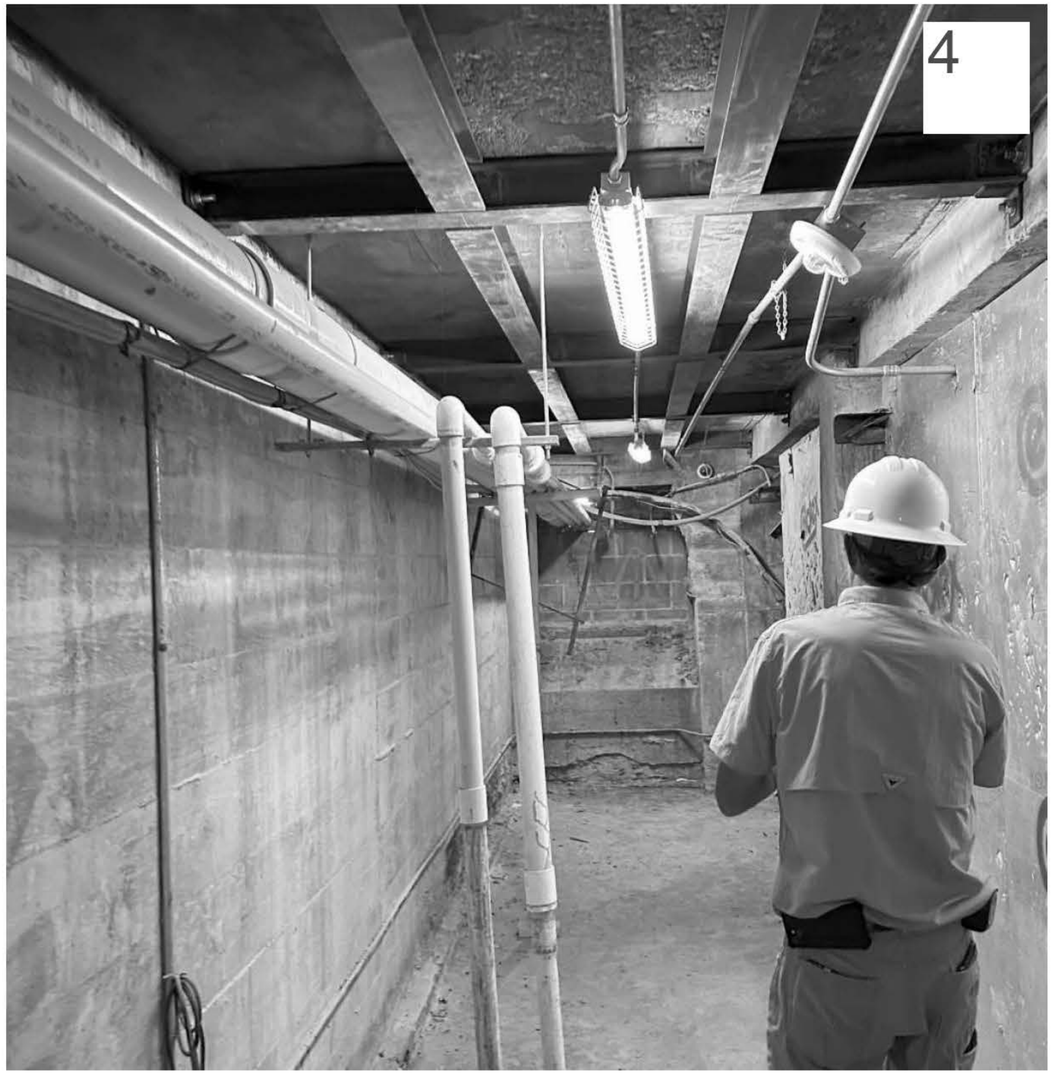
REFERENCE ONLY -
PREVIOUS REPAIRS
NO NEW WORK



REFERENCE ONLY -
PREVIOUS REPAIRS
NO NEW WORK

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTOS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-305

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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FX. (210) 979-7800

DATE: 02/25/2026
STATE OF TEXAS
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LICENSED
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REFERENCE ONLY -
PREVIOUS REPAIRS
NO NEW WORK

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210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR DETAILS

PROJECT NO: 2308 A1

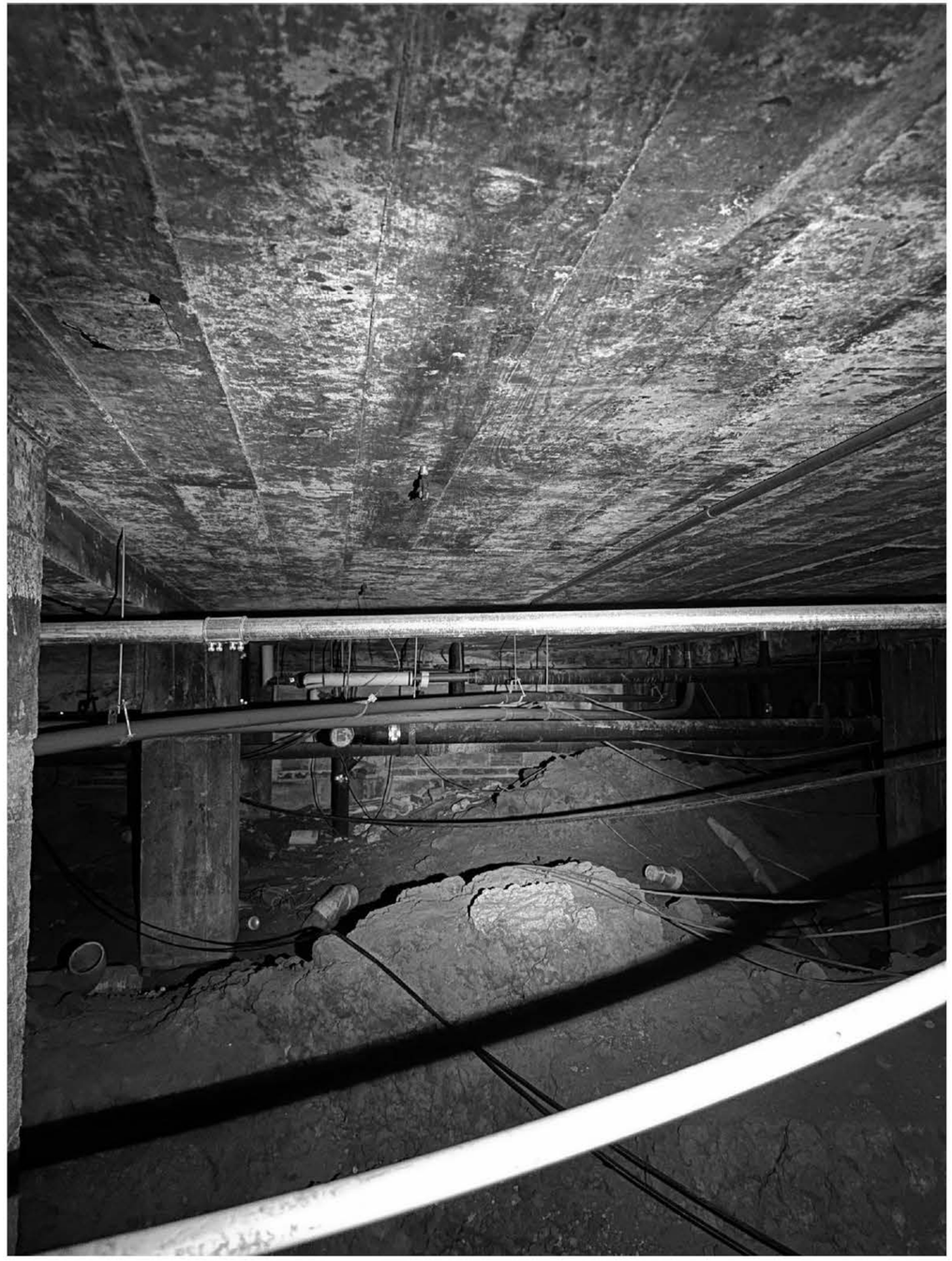
△ REVISIONS DATE

SHEET NO: S-306

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

REFERENCE ONLY -
CONTRACTOR TO VERIFY
TOP OF EXISTING FOOTINGS
PRIOR TO START OF WORK

REFERENCE ONLY -
PREVIOUS REPAIRS
NO NEW WORK



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210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTOS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-307

LA PROJECT NO.: 85-008A00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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TX FIRM REG. #3388

DATE: 02/25/2026

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LICENSED PROFESSIONAL ENGINEER

REFERENCE ONLY -
EXISTING ELEVATOR PIT
TO ME REMOVED

REFERENCE ONLY -
EXISTING GRADING

Fisher Heck
ARCHITECTS
915 SOUTH ST MARY'S STREET
SAN ANTONIO, TEXAS
FISHERHECK.COM
210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTOS

PROJECT NO: 2308 A1

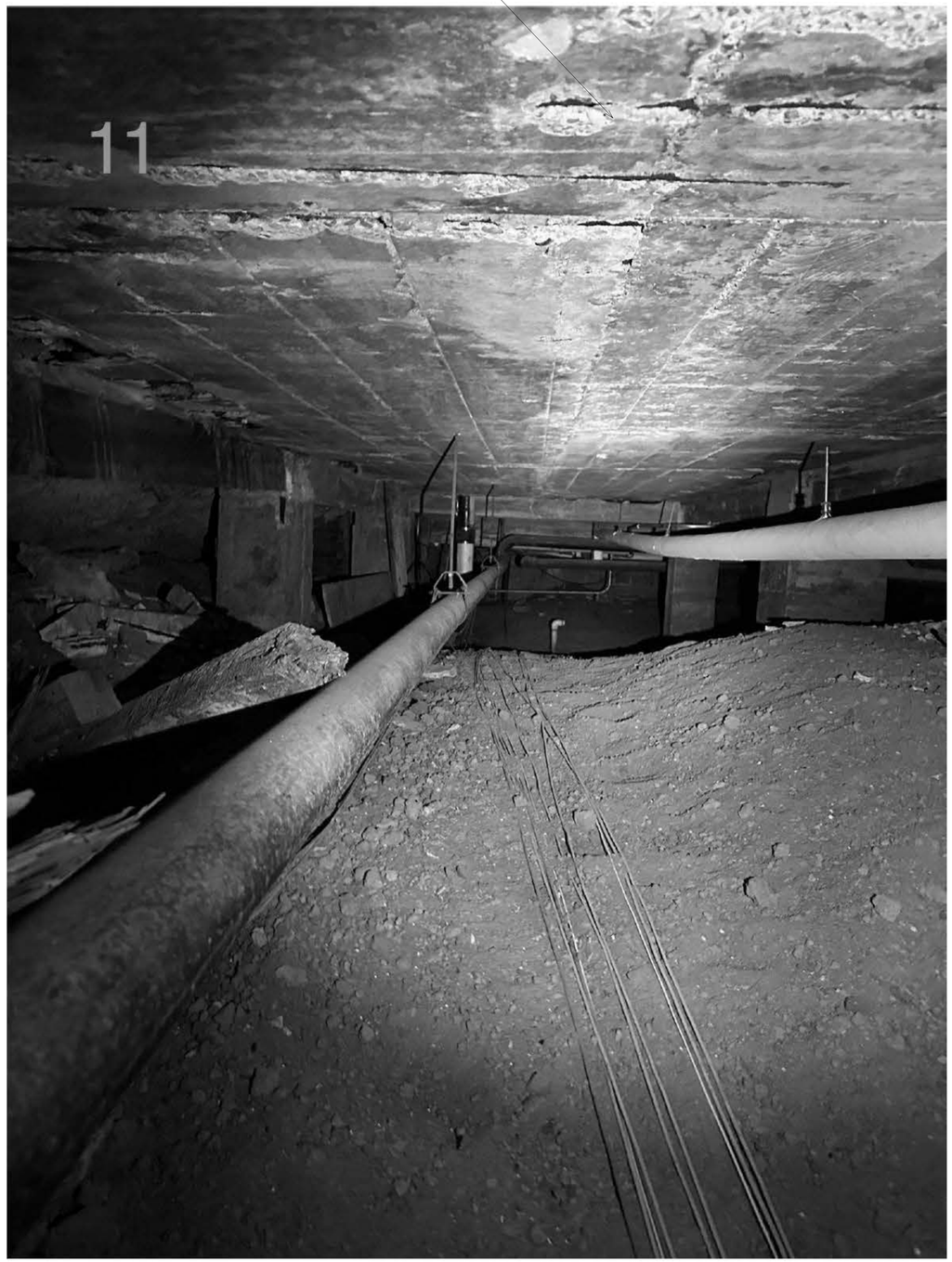
△ REVISIONS DATE

SHEET NO: S-308

LA PROJECT NO.: 85A08400
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

6/S-101
APPROXIMATELY 75 SF

6/S-101
APPROXIMATELY 100 SF



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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTOS

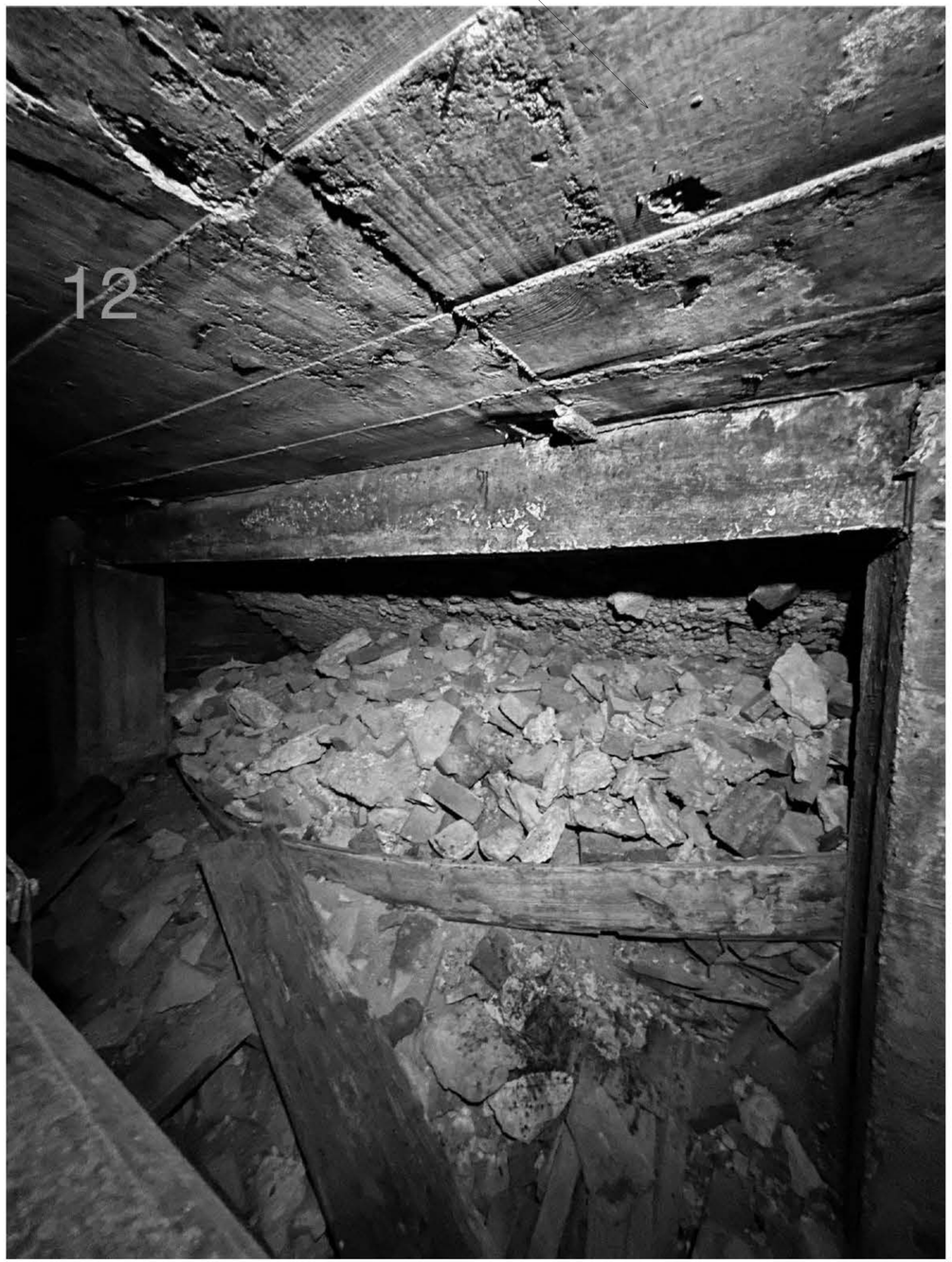
PROJECT NO: 2308 A1

△ REVISIONS DATE

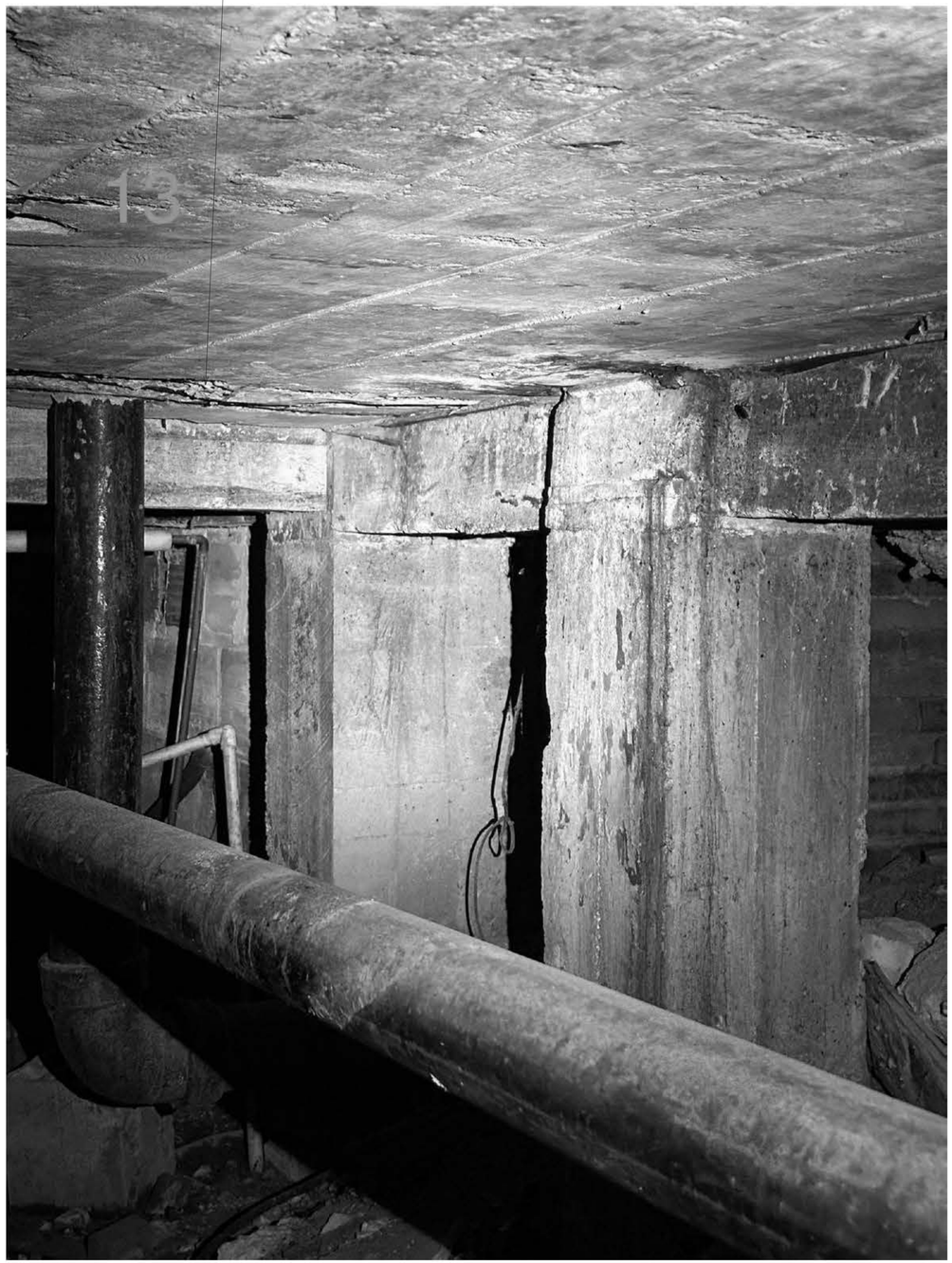
SHEET NO: S-309

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

6/S-101
APPROXIMATELY 25 SF



6/S-101
APPROXIMATELY 25 SF



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210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTOS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-310

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

REFERENCE ONLY -
EXISTING GRADING

REFERENCE ONLY -
EXISTING GRADING

LUNDY & FRANKE
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210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTOS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-311

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

6/S-101
APPROXIMATELY 10 SF

5/S-101
APPROXIMATELY 20 LF

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210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTOS

PROJECT NO: 2308 A1

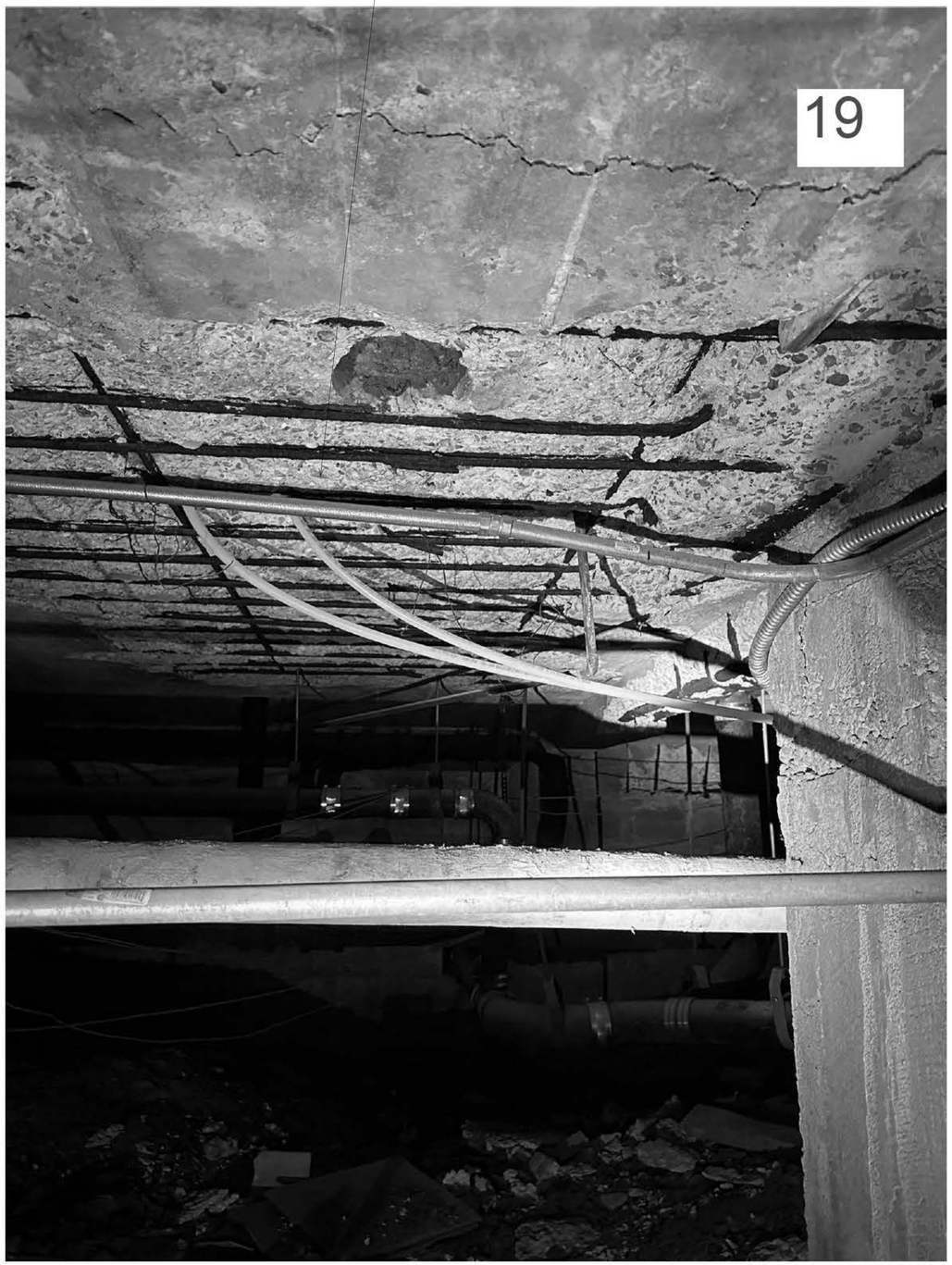
△ REVISIONS DATE

SHEET NO: S-312

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

5/S-101
APPROXIMATELY 20 LF

6/S-101
APPROXIMATELY 100 SF



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SAN ANTONIO, TEXAS
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210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTOS

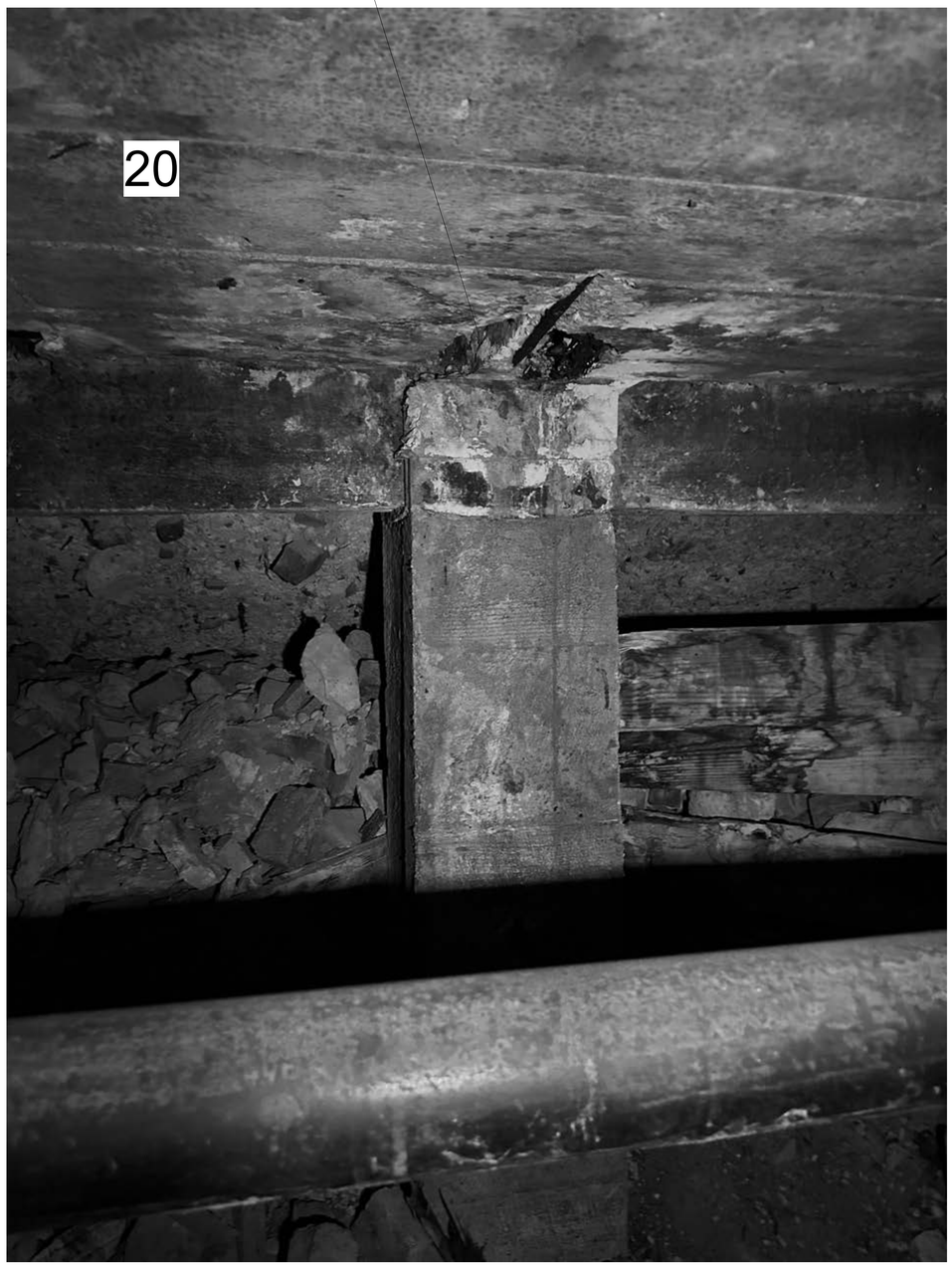
PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-313

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

6/S-101
APPROXIMATELY 10 SF



LUNDY & FRANKE
ENGINEERING
549 HEIMER ROAD PH. (210) 979-7900
SAN ANTONIO, TEXAS 78232 FX. (210) 979-7800
TX FIRM REG. #3388

DATE: 02/25/2026
STATE OF TEXAS
SHAWN J. FRANKE
82639
LICENSED
PROFESSIONAL ENGINEER

Fisher Heck
ARCHITECTS
915 SOUTH ST MARY'S STREET
SAN ANTONIO, TEXAS
FISHERHECK.COM
210-299-1500

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: REPAIR PHOTO

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-314

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: PROJECT SPECIFICATIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: S-400

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 013140
SER: SHOP DRAWINGS/FIELD VISITS

PART 1 - GENERAL

1.1 SCOPE
- A. This section defines and clarifies specific items of the Contract that are peculiar to the structural engineer's responsibilities. Refer to General Conditions for overall contractual agreements and to appropriate section of this specification for specifics on shop drawing, product data, and samples submitted.

PART 2 - GENERAL DEFINITIONS

2.1 STRUCTURAL ENGINEER OF RECORD
- A. The engineer responsible for the design of the primary structural system and whose seal/signature appears on the contract structural drawings. Responsibility for any secondary structural and non-structural systems not shown on the structural drawings rests with the prime professional, the architect.

2.2 SPECIALTY ENGINEER
- A. The engineer who is lawfully eligible to seal plans and designs for pre-engineered elements on systems which become part of the overall building.

2.3 GRADUATE ENGINEER
- A. The engineer who is an Engineer-In-Training and working under the direct supervision of a Licensed Engineer.

2.4 SUBMITTALS
- A. Items identified in the contract documents to be submitted by the contractor. Refer to individual sections of the specifications for specific items to be submitted.

2.5 FIELD OBSERVATIONS
- A. Visits to the jobsite by the structural engineer-of-record or his authorized representative to ascertain whether the work is generally in accordance with the structural contract documents. These observations are not exhaustive nor continuous.

PART 3 - PROCEDURAL REQUIREMENTS

3.1 SHOP DRAWINGS
- A. Refer to applicable section for specific requirements for number of copies to be submitted, time for review, etc. All submittals must come by way of the general contractor though the architect. Certain submittals, identified in specific sections of the specifications, generally regarding pre-engineered elements, will require a specialty engineer's seal and signature.

3.2 FIELD OBSERVATIONS
- A. Structural engineer shall be notified at least 24 hours in advance of any concrete pour or other action that will cover up structural elements that have not been reviewed by the structural engineer. Refer to individual sections for specific stages of construction which require observation.

3.3 ENGINEER'S ACTIONS
- A. SHOP DRAWINGS
  1. As per General or Special Conditions, the structural engineer will review shop drawings for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
  2. The structural engineer-of-record shall review the submittals and return them to the architect with one of the following statements checked off on the stamp:
  3. "NO exceptions Taken" informs the Architect that the structural engineer takes no exception to the submittal being approved as per and in accordance with AIA Document 201,section 4.2.7.
  4. "Make Corrections Noted" informs the Architect that the structural engineer has made corrections on the submittals but otherwise takes no exception to the submittal being approved as per and in accordance with AIA Document 201, section 4.2.7.
  5. "Revise and Resubmit" indicates important items must be corrected and resubmitted. Marks on the submittal may not necessarily cover all of the defects of the submittal. This action expresses the structural engineer's concern and his recommendation to the Architect that the submittal be reviewed and resubmitted as per and in accordance with AIA Document 201, section 4.2.7.
  6. "Return One Corrected Copy For File" informs the Architect that the submittal may be approved as per AIA Document 201, section 4.2.7, but a corrected copy showing that corrections have been acknowledged must be returned for the structural engineer's file.

3.4 SHOP DRAWINGS WITH SPECIALTY ENGINEER'S SEAL AND SIGNATURE
- A. Certain shop drawings may be identified in specific sections of the specifications pertaining to pre-engineered structural elements specified by the structural engineer-of-record and designed by specialty engineers. The structural engineer shall verify that submittals have received prior approvals as required by the contract documents. Submittals shall bear the signature and professional seal of the specialty engineer responsible for the design as required by the contract documents. The structural engineer shall review the submittal for type, position, and connection to other elements within the primary structural system, and for criteria and loads used for their design. Action on these submittals will be the same as for other shop drawings.
  1. SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS
     a. Submittal of shop drawings covering items not shown or specified on structural plans by the Structural Engineer will be reviewed only to verify that the specialty engineer sealing the drawings/calculations has generally followed usual and customary application of code-mandated loads and design procedures. These submittals will be stamped "REVIEWED" indicating that the items listed interface with the primary structural framing without deleterious effect and no further action is taken.

3.5 SITE VISITS
- A. The structural engineer-of-record ("SER") will make site visits at intervals appropriate to the stage of construction and as defined by the contract to visually observe the quality and the progress of the construction work relative to the primary structural system. The general contractor is responsible to notify the SER when structural elements are ready for review and prior to their being covered up. Failure to do so may result in key observations not being made, preventing the engineer from recommending acceptance of the work. A written report will be made of each visit listing discrepancies, if any, and describing what was observed. One copy will be given to contractor's representative at the jobsite, and one copy will be mailed to the Architect. If a follow-up visit is necessary it will be so noted on the report.
  1. The SER shall not have control over or charge of and shall not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work for This Part of the Project, since these are solely the Contractor's responsibility under the Contract for Construction. The SER shall not be responsible for the Contractor's or a Subcontractor's schedule or failure to carry out the Work in accordance with the Contract Documents. The SER shall not have control over or charge of acts or omissions of the Contractor, Subcontractors, their agents or employees or other persons performing portions of the Work.

END OF SECTION

DIVISION 02 - EXISTING CONDITIONS

SECTION 024116
STRUCTURAL DEMOLITION

PART 1 GENERAL

1.1 SECTION INCLUDES
- A. Selective demolition of building elements for alteration purposes.

1.2 RELATED REQUIREMENTS
- A. Section 003100 - Available Project Information: Existing building survey conducted by Owner; information about known hazardous materials.
- B. Section 011000 - Summary: Limitations on Contractor's use of site and premises.
- C. Section 011000 - Summary: Description of items to be salvaged or removed for re-use by Contractor.
- D. Section 015000 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- E. Section 015713 - Temporary Erosion and Sediment Control.
- F. Section 016000 - Product Requirements: Handling and storage of items removed for salvage and relocation.
- G. Section 017000 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.
- H. Section 017419 - Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.

1.3 REFERENCE STANDARDS
- A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.
- B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2019.

1.4 SUBMITTALS
- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Site Plan: Showing:
  1. Areas for temporary construction and field offices.
  2. Areas for temporary and permanent placement of removed materials.
- C. Demolition Plan: Submit demolition plan as specified by OSHA and local authorities.
  1. Indicate extent of demolition, removal sequence, bracing and shoring, and location and construction of barricades and fences.
     a. Shoring plan shall be prepared under the direct supervision of a professional engineer. Shop drawings shall be signed and sealed by Registered Professional Engineer.
  2. Identify demolition firm and submit qualifications.
- D. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

1.5 QUALITY ASSURANCE
- A. Demolition Firm Qualifications: Company specializing in the type of work required.
  1. Minimum of 5 years of documented experience.

PART 2 PRODUCTS

2.1 MATERIALS
- A. Fill Material: As specified in Section 312323 - Fill.

PART 3 EXECUTION

3.1 SCOPE
- A. Selective demolition of building elements for alteration purposes.
- B. Within area of new construction, remove foundation walls and footings to a minimum of 2 feet below finished grade.
- C. Outside area of new construction, remove foundation walls and footings to a minimum of 2 feet below finished grade.
- D. Remove concrete slabs on grade within site boundaries.
- E. Remove other items indicated, for salvage, relocation, and recycling.
- F. Fill excavations, open pits, and holes in ground areas generated as result of removals, using specified fill; compact fill as required so that required rough grade elevations do not subside within one year after completion 312323.16.

3.2 GENERAL PROCEDURES AND PROJECT CONDITIONS
- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
  1. Obtain required permits.
  2. Comply with applicable requirements of NFPA 241.
  3. Use of explosives is not permitted.
  4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
  5. Provide, erect, and maintain temporary barriers and security devices.
  6. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
  7. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
  8. Do not close or obstruct roadways or sidewalks without permit.
  9. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.
  10. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon or limit access to their property.
- B. Do not begin removal until receipt of notification to proceed from Owner.
- C. Protect existing structures and other elements that are not to be removed.
  1. Provide bracing and shoring.
  2. Prevent movement or settlement of adjacent structures.
  3. Stop work immediately if adjacent structures appear to be in danger.
- D. Minimize production of dust due to demolition operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.
- E. If hazardous materials are discovered during removal operations, stop work and notify Architect/Structural Engineer of Record and Owner; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury.

3.3 EXISTING UTILITIES
- A. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from authority having jurisdiction.
- D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.
- E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
- F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
- H. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone; identify and mark utilities to be subsequently reconnected, in same manner as other utilities to remain.

3.4 SELECTIVE DEMOLITION FOR ALTERATIONS
- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
  1. Verify that construction and utility arrangements are as indicated.
  2. Report discrepancies to Architect/Structural Engineer of Record before disturbing existing installation.
  3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- B. Remove existing work as indicated and as required to accomplish new work.
  1. Remove items indicated on drawings.
- C. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications): Remove existing systems and equipment as indicated.
  1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components.
  2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
  3. Verify that abandoned services serve only abandoned facilities before removal.
  4. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification.
- D. Protect existing work to remain.
  1. Prevent movement of structure; provide shoring and bracing if necessary.
  2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
  3. Repair adjacent construction and finishes damaged during removal work.
  4. Patch as specified for patching new work.

3.5 DEBRIS AND WASTE REMOVAL
- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

DIVISION 03 - CONCRETE

SECTION 030100
MAINTENANCE OF CONCRETE

PART 1 GENERAL

1.1 SECTION INCLUDES
- A. Cleaning of existing concrete surfaces.
- B. Repair of exposed structural, shrinkage, and settlement cracks.
- C. Resurfacing of concrete surfaces having spalled areas and other damage.
- D. Repair of deteriorated concrete.
- E. Repair of internal concrete reinforcement.

1.2 RELATED REQUIREMENTS
- A. Section 033000 - Cast-in-Place Concrete: Finishing of concrete surface to tolerance; floating, troweling, and similar operations; curing.

1.3 ABBREVIATIONS AND ACRONYMS
- A. CFRP: Carbon Fiber Reinforced Polymer.

1.4 DEFINITIONS
- A. Carbon Fiber Reinforced Polymer (CFRP): Composite material comprising a polymer matrix reinforced with carbon fiber cloth, mat, or strands.

1.5 REFERENCE STANDARDS
- A. ACI 440.2R - Guide for the Design and Construction of Externally Bonded FRP Systems for Stengthening Concrete Structures; 2017, with Errata (2020).
- B. ACI SPEC-440.8 - Specification for Carbon and Glass Fiber-Reinforced Polymer (FRP) Materials Made by Wet Layup for External Strengthening of Concrete and Masonry Structures; 2013.
- C. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2022.
- D. ASTM A767/A767M - Standard Specification for Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement; 2019.
- E. ASTM A775/A775M - Standard Specification for Epoxy-Coated Steel Reinforcing Bars; 2019.
- F. ASTM A996/A996M - Standard Specification for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement; 2016.
- G. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2018a.
- H. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2018.
- I. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2021.
- J. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens); 2021.
- K. ASTM C150/C150M - Standard Specification for Portland Cement; 2022.
- L. ASTM C348 - Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars; 2021.
- M. ASTM C404 - Standard Specification for Aggregates for Masonry Grout; 2018.
- N. ASTM C881/C881M - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete; 2020a.
- O. ASTM C928/C928M - Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs; 2020a.
- P. ASTM C1059/C1059M - Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete; 2021.
- Q. ASTM C1708/C1708M - Standard Test Methods for Self-leveling Mortars Containing Hydraulic Cements; 2019.
- R. ASTM D3039/D3039M - Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials; 2017.
- S. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2022.
- T. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification; 2021.
- U. AWS D1.4/D1.4M - Structural Welding Code - Steel Reinforcing Bars; 2018, with Amendment (2020).
- V. ICC-ES AC125 - Acceptance Criteria for Concrete and Reinforced and Unreinforced Masonry Strengthening Using Externally Bonded Fiber-Reinforced Polymer (FRP) Composite Systems; 2019, with Editorial Revision 2020.
- W. ICC-ES AC178 - Acceptance Criteria for Inspection and Verification of Concrete and Reinforced and Unreinforced Masonry Strengthening Using Fiber-Reinforced Polymer (FRP) or Steel-Reinforced Polymer (SRP) Composite Systems; 2017, with Editorial Revision 2020.
- X. ICRI 310.2R - Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair; 2013.

1.6 SUBMITTALS
- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Indicate product standards, physical and chemical characteristics, technical specifications, limitations, maintenance instructions, and general recommendations regarding each material.
- C. Shop Drawings for Applied Composite Repairs: Provide shop drawings signed and sealed by Professional Engineer indicating:
  1. Repair location.
  2. Repair details.
  3. Fiber type, dimensions, number, thickness, and direction of layers.
  4. Installation sequence.
  5. Splice details.
  6. Joint and end details.
  7. Anchorage.
  8. Connections.
- D. Manufacturer's instructions.
- E. Field quality control submittals.
- F. Field quality control submittals for CFRP.

1.7 QUALITY ASSURANCE
- A. Designer Qualifications: Perform design under direct supervision of Professional Engineer experienced in design of this type of work and licensed in Texas.
- B. Designer Qualifications: Perform design under direct supervision of Professional Engineer experienced in design of this type of work and licensed in Texas.
- C. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- D. Cleaner Qualifications: Company specializing in, and with minimum of 3 years of experience in, the type of cleaning specified.
- E. Installer Qualifications: Company specializing in performing work of the type specified and with minimum of 3 years of documented experience.
- F. Welder Qualifications: Welding processes and welding operators qualified in accordance with AWS D1.4/D1.4M and dated no more than 12 months before start of scheduled welding work.

1.8 MOCK-UP(S)
- A. Test each type of maintenance procedure required on each type of existing construction, to determine the most appropriate procedures to use and as a record of expected results.
- B. Crack Injection: Prepare one sample of each type of injection.
- C. Horizontal Surface Repair: Total of 10 foot square area, demonstrating each type of repair.
- D. Vertical Surface Repair: Total of 10 foot square area, demonstrating each type of repair.
- E. Where color or texture matching is required, first prepare a small size sample on cementitious board.
- F. Finish Layer (Catheral Stone) will require multiple mockups along height of building and on different sides of structure.
  1. Contractor shall engage manufacturer for laboratory color matches, including sending muliple samples of existing to lab.
  2. The mockups shall be reviewed and approved by architect.
- G. Locate mock-up(s) where directed.
- H. Re-work mock-up(s) until satisfactory to Architect/Structural Engineer of Record .
- I. Re-work mock-up(s) until satisfactory to Owner.

1.9 DELIVERY, STORAGE, AND HANDLING
- A. Comply with manufacturers' instructions for storage, shelf life limitations, and handling of products.
- B. Deliver polymer resin materials in original factory-sealed containers with manufacturer's labels intact and legible. Verify product nomenclature, manufacturer's name, product identification, batch number, date of manufacture, and shelf life or expiration date. Do not use polymer resin materials that have exceeded shelf life.
- C. Store materials in covered, well-ventilated area and according to manufacturer's written storage instructions. Store polymer resins and hardeners separate from construction materials that can absorb odors.

PART 2 PRODUCTS

2.1 CLEANING MATERIALS
- A. Degreaser:
  1. Manufacturers:
     a. Euclid Chemical Company; Euco Clean and Strip: www.euclidchemical.com/#sle.
     b. L&M Construction Chemicals, Inc, a subsidiary of Laticrete International, Inc; CITREX: www.lmcc.com/#sle.
     c. SpecChem, LLC; Orange Peel-Citrus Cleaner: www.specchemllc.com/#sle.
     d. Substitutions: See Section 016000 - Product Requirements.
- B. Detergent: Non-ionic detergent.
- C. Strippers and Cleaners for Removal of Existing Coatings:
  1. Manufacturers:
     a. Nox-Crete, Inc; Deco-Strip Series: www.nox-crete.com/#sle.
     b. Substitutions: See Section 016000 - Product Requirements.

2.2 REBAR AND STEEL CLEANING/COATING
- A. Cleaning of Rebar
  1. Wire brush
  2. Rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion shall be removed by blast cleaning or other means of mechanical abrasion and reinforcement.
- B. Coat all existing reinforcing
  1. Products
     a. Armatec-10 Primer
     b. Armatec-108 Reinforcement Corrosion Protection
     c. Armatec-110 EpoCem Reinforcement Corrosion Protection
     d. Substitutions: See Section 016000 - Product Requirements.

2.3 CEMENTITIOUS PATCHING AND REPAIR MATERIALS
- A. Manufacturers:
  1. Adhesives Technology Corporation: www.atcepoxy.com/#sle.
  2. ARDEX Engineered Cements: www.ardexamericas.com/#sle.
  3. Euclid Chemical Company: www.euclidchemical.com/#sle.
  4. Master Builders Solutions: www.master-builders-solutions.com/en-us/#sle.
  5. Substitutions: See Section 016000 - Product Requirements.
- B. Bonding Slurry: Water-based latex admixture; comply with ASTM C1059/C1059M, combined with Portland cement and sand in accordance with admixture manufacturer's instructions.
  1. Admixture Manufacturers:
     a. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
     b. Euclid Chemical Company; AKKRO-7T: www.euclidchemical.com/#sle.
     c. W. R. Meadows, Inc; Acry-lok: www.wrmeadows.com/#sle.
- C. Cementitious Resurfacing Mortar: One- or two-component, factory-mixed, polymer-modified cementitious mortar designed for continuous thin-coat application.
  1. Mixed with water or latex type bonding agent in proportions as recommended by manufacturer.
  2. Integral corrosion inhibitor.
  3. Manufacturers:
     a. ARDEX Engineered Cements; ARDEX Feather Finish: www.ardexamericas.com/#sle.
     b. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
     c. Euclid Chemical Company; THIN TOP SUPREME: www.euclidchemical.com/#sle.
     d. L&M Construction Chemicals, Inc, a subsidiary of Laticrete International, Inc; Duracrete: www.lmcc.com/#sle.
- D. Cementitious Repair Mortar, Trowel Grade: One- or two-component, factory-mixed, polymer-modified cementitious mortar.
  1. In-place material resistant to freeze/thaw conditions.
  2. Mixed with water or latex type bonding agent in proportions as recommended by manufacturer.
  3. Dry Material: Complies with ASTM C928/C928M.
  4. Integral corrosion inhibitor.
  5. Manufacturers:
     a. ARDEX Engineered Cements; ARDEX Feather Finish: www.ardexamericas.com/#sle.
     b. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
     c. Euclid Chemical Company; Vericoat / Verticoat Supreme: www.euclidchemical.com/#sle.
     d. Euclid Chemical Company; Euco-Repair V100: www.euclidchemical.com/#sle.
     e. SikaQuick VOH; Sika Corporation, usa.sika.com
     f. Master Builders Solutions; MasterEmaco T 1060: www.master-builders-solutions.com/en-us/#sle.
- E. Final Layer Color Matched Cementitious Repair Mortar, Trowel Grade: One- or two-component, factory-mixed, polymer-modified cementitious mortar.
  1. In-place material resistant to freeze/thaw conditions.
  2. Refer to Mock up section above for Mock-up requirements.
  3. Mixed with water or latex type bonding agent in proportions as recommended by manufacturer.
  4. Dry Material: Complies with ASTM C928/C928M.
  5. Integral corrosion inhibitor.
  6. Product:
     a. Cathedral Stone Concrete (M90)
  7. Manufacturers:
     a. Cathedral Stone Products, Inc.: www.cathedralstone.com
- F. Exterior Self-Leveling Concrete Topping: Portland cement-based; suitable as wear surface topping in exterior and wet locations as well as underlayment for applied materials.
  1. Compressive Strength: 4300 pounds per square inch, minimum, at 28 days, when tested in accordance with ASTM C109/C109M, air cured.
  2. Flexural Strength: 1000 pounds per square inch, minimum, at 28 days, when tested in accordance with ASTM C348.
  3. Manufacturers:
     a. ARDEX Engineered Cements; ARDEX K301: www.ardexamericas.com/#sle.
     b. Kaufman Products Inc; SureFlow 042: www.kaufmanproducts.net/#sle.

2.4 EPOXY PATCHING AND REPAIR MATERIALS
- A. Manufacturers:
  1. Adhesives Technology Corporation: www.atcepoxy.com/#sle.
  2. ChemCo Systems, Inc: www.chemcosystems.com/#sle.
  3. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
  4. Euclid Chemical Company: www.euclidchemical.com/#sle.
  5. Sika: usa.sika.com
  6. Substitutions: See Section 016000 - Product Requirements.
- B. Epoxy Injection Adhesive:
  1. Manufacturers:
     a. ChemCo Systems, Inc; KEMKO 068 - Lo Vis IR with KEMKO 141 - Quick Prime primer: www.chemcosystems.com/#sle.
     b. Sika Inject; Sika Systems, usa.sika.com
     c. Hilti CI 060 Crack Injection System; Hilti Products, www.hilti.com

2.5 URETHANE PATCHING AND REPAIR MATERIALS
- A. Manufacturers:
  1. Adhesives Technology Corporation: www.atcepoxy.com/#sle.
  2. ARDEX Engineered Cements: www.ardexamericas.com/#sle.
  3. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
  4. Euclid Chemical Company: www.euclidchemical.com/#sle.

2.6 ACCESSORIES
- A. Anchoring Adhesive: Self-leveling or non-sag as applicable.
  1. Self-Leveling Polyester-Based Products:
     a. W. R. Meadows, Inc; Poly-Grip: www.wrmeadows.com/#sle.
     b. Substitutions: See Section 016000 - Product Requirements.
  2. Self-Leveling Epoxy Products:
     a. Euclid Chemical Company; DURAL FAST SET LV: www.euclidchemical.com/#sle.
     b. SpecChem, LLC; SpecPoxy 2000; www.specchemllc.com/#sle.
     c. W. R. Meadows, Inc; Rezi-Weld 1000, Rezi-Weld (IP), or Rezi-Weld 3/2: www.wrmeadows.com/#sle.
     d. Substitutions: See Section 016000 - Product Requirements.
  3. Non-Sag Epoxy Products:
     a. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
     b. Euclid Chemical Company; DURAL FAST SET GEL: www.euclidchemical.com/#sle.
     c. SpecChem, LLC; SpecPoxy 3000 or SpecPoxy 3000 FS: www.specchemllc.com/#sle.
     d. W. R. Meadows, Inc; Rezi-Weld Gel Paste or Rezi-Weld Gel Paste State: www.wrmeadows.com/#sle.
- B. Portland Cement: ASTM C150/C150M, Type I, grey.
- C. Sand: ASTM C33/C33M or ASTM C404; uniformly graded, clean.
- D. Water: Clean and potable.
- E. Reinforcing Steel: ASTM A615/A615M Grade 40 (40,000 psi) billet-steel deformed bars, unfinished.
- F. Stirrup Steel: ASTM A1064/A1064M.

PART 3 EXECUTION

3.1 EXAMINATION
- A. Verify that surfaces are ready to receive work.
- B. Beginning of installation means acceptance of substrate.

3.2 PREPARATION
- A. Prepare concrete surfaces to be repaired according to ICRI 310.2R, CSP 3.
- B. Surface Preparation for CFRP Systems:
  1. Repair cracks according to CFRP manufacturer's written instructions.

2. Cleaning: Remove loose and unsound materials. Remove contaminants that would inhibit bond, such as laitance, dust, dirt, oil, curing compound, existing paint or coatings, efflorescence, and other matter that could interfere with bond of CFRP system concrete surfaces.
3. Concrete: Roughen surface according to CFRP manufacturer's written instructions.
4. Apply CFRP system within 72 hours of surface preparation.

3.3 CLEANING EXISTING CONCRETE
A. Clean concrete surfaces of dirt or other contamination using the gentlest method that is effective.
1. Try the gentlest method first, then, if not clean enough, use a less gentle method taking care to watch for impending damage.
2. Clean out cracks and voids using same methods.
B. The following are acceptable cleaning methods, in order from gentlest to less gentle:
1. Water washing using low-pressure, maximum of 100 psi, and, if necessary, brushes with natural or synthetic bristles.
2. Increasing the water washing pressure to maximum of 400 psi.
3. Adding detergent to washing water; with final water rinse to remove residual detergent.
4. Steam-generated low-pressure hot-water washing.
C. Do not use any of the following cleaning methods, unless otherwise indicated:
1. Brushes with wire bristles, grinding with abrasives, solvents, hydrochloric or muriatic acid, sodium hydroxide, caustic soda, or lye.
2. Soap or detergent that is not non-ionic.

3.4 CONCRETE STRUCTURAL MEMBER REPAIR
A. See drawings for specific areas to be repaired.
B. Remove broken and soft concrete at least 1/4 inch deep.
C. Mechanically cut away damaged portions of reinforcement.
D. Remove corrosion from steel and clean mechanically.
E. Blast clean remaining exposed reinforcement surfaces.
F. Repair by welding new bar reinforcement to existing reinforcement using sleeve splices.
1. Perform welding work in accordance with AWS D1.4/D1.4M.
2. Make welded sleeve splices to achieve strength to exceed strength of new reinforcement.
G. Follow repair product manufacturer's written installation instructions.
H. Cover exposed steel reinforcement with epoxy mortar.
I. Work epoxy mortar into broken surface and build up patch to match original.
J. Feather edges of repairs flush to sound surface and trowel surface to match surrounding area.

3.5 CRACK REPAIR USING EPOXY ADHESIVE INJECTION
A. Repair exposed cracks.
B. Provide temporary entry ports spaced to accomplish movement of fluids between ports; no deeper than the depth of the crack to be filled or port size diameter no greater than the thickness of the crack. Provide temporary seal at concrete surface to prevent leakage of adhesive.
C. Inject adhesive into ports under pressure using equipment appropriate for particular application.
D. Begin injection at lower entry port and continue until adhesive appears in adjacent entry port. Continue from port to port until entire crack is filled.
E. Remove temporary seal and excess adhesive.
F. Clean surfaces adjacent to repair and blend finish.

3.6 CONCRETE SURFACE REPAIR USING CEMENTITIOUS MATERIALS
A. Clean concrete surfaces, cracks, and joints of dirt, laitance, corrosion, and other contamination using method(s) specified above and allow to dry.
B. Apply coating of bonding agent to entire concrete surface to be repaired.
C. Fill voids with cementitious mortar flush with surface.
D. Apply repair mortar by steel trowel to a minimum thickness of 1/4 inch over entire surface, terminating at a vertical change in plane on all sides.
E. Trowel finish to match adjacent concrete surfaces.
F. Damp cure for four days.

3.7 FIELD QUALITY CONTROL
A. See Section 014000 - Quality Requirements for additional requirements.
B. An independent testing agency, as specified in Section 014000, will perform field inspection and testing.
C. Field Quality Control for CFRP:
1. Inspect installation and test for compliance with ICC-ES AC178.
2. Inspect for voids, bubbles, and delaminations by performing a visual and acoustic tap test of layered surface after 24 hours of initial resin saturant cure.
3. Test for material properties of CFRP in accordance with ASTM D3039/D3039M.
4. Nonconforming Work: Repair defective work after minimum cure time for CFRP laminates.

END OF SECTION

SECTION 031000
CONCRETE FORMING AND ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Formwork for cast-in-place concrete, with shoring, bracing and anchorage.
B. Openings for other work.
C. Form accessories.
D. Form stripping.

1.2 RELATED REQUIREMENTS
A. Section 032000 - Concrete Reinforcing.
B. Section 033000 - Cast-in-Place Concrete.
C. Section 051200 - Structural Steel Framing: Placement of embedded steel anchors and plates in cast-in-place concrete.

1.3 REFERENCE STANDARDS
A. ACI 117 - Specification for Tolerances for Concrete Construction and Materials; 2010 (Reapproved 2015).
B. ACI 301 - Specifications for Concrete Construction; 2020.
C. ACI 318 - Building Code Requirements for Structural Concrete; 2019, with Errata (2021).
D. ACI 347R - Guide to Formwork for Concrete; 2014 (Reapproved 2021).
E. ASME A17.1 - Safety Code for Elevators and Escalators Includes Requirements for Elevators, Escalators, Dumbwaiters, Moving Walks, Material Lifts, and Dumbwaiters with Automatic Transfer Devices; 2019, with Errata (2021).
F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.
G. COE CRD-C 572 - Handbook for Concrete and Cement Corps of Engineers Specifications for Polyvinylchloride Waterstop; 1974.
H. PS 1 - Structural Plywood; 2009 (Revised 2019).

1.4 SUBMITTALS
A. See Section 013000 - Administrative Requirements, for submittal procedures.
B. Shop Drawings: Indicate pertinent dimensions, materials, bracing, and arrangement of joints and ties.
C. Suspended One-way, Two-way and Removeable Panormwork Shop Drawings: Include calculations or selections from manufacturer's prescriptive design tables that indicate compliance with applicable building code and manufacturer's requirements.
1. Include the design engineer's stamp or seal on each sheet of shop drawings.
D. Shop Drawings: Indicate layout of prefabricated forms, including beams, drops and proposed concrete pour breaks.

1.5 QUALITY ASSURANCE
A. Designer Qualifications: Design formwork under direct supervision of a Professional Structural Engineer experienced in design of concrete formwork and licensed in Texas.
B. Maintain one copy of each installation standard on site throughout the duration of concrete work.

1.6 DELIVERY, STORAGE, AND HANDLING
A. Deliver prefabricated forms and installation instructions in manufacturer's packaging.
B. Store prefabricated forms off ground in ventilated and protected manner to prevent deterioration from moisture.

PART 2 PRODUCTS

2.1 FORMWORK - GENERAL
A. Provide concrete forms, accessories, shoring, and bracing as required to accomplish cast-in-place concrete work.
B. Design and construct concrete that complies with design with respect to shape, lines, and dimensions.
C. Comply with applicable state and local codes with respect to design, fabrication, erection, and removal of formwork.
D. Comply with relevant portions of ACI 347R, ACI 301, and ACI 318.

2.2 WOOD FORM MATERIALS
A. Softwood Plywood: PS 1, B-B High Density Concrete Form Overlay, Class I.
B. Lumber: Yellow Pine or equal species; no. 2 grade; with grade stamp clearly visible.

2.3 REMOVABLE PREFABRICATED FORMS
A. Manufacturers:
1. SureVoid Products, Inc: www.surevoid.com/#sle.
2. Substitutions: See Section 016000 - Product Requirements.
B. Preformed Steel Forms: Minimum 16 gauge, 0.0598 inch thick, matched, tight fitting, stiffened to support weight of concrete without deflection detrimental to tolerances and appearance of finished surfaces.
1. Exposed concrete finish areas shall use New or Like New Preformed Steel Forms.
C. Pan Type: Steel, of size and profile indicated.
D. Void Forms: Moisture resistant treated paper faces, biodegradable, structurally sufficient to support weight of wet concrete mix until initial set; 2 inches 2 inches thick.

2.4 FORMWORK ACCESSORIES
A. Form Ties: type, , length, 1 inch back break dimension, free of defects that could leave holes larger than in concrete surface.
B. Form Release Agent: Capable of releasing forms from hardened concrete without staining or discoloring concrete or forming bugholes and other surface defects, compatible with concrete and form materials, and not requiring removal for satisfactory bonding of coatings to be applied.
1. Do not use materials containing diesel oil or petroleum-based compounds.
2. Products:
a. SpecChem, LLC; Bio Strip WB (water-based): www.specchemllc.com/#sle.
b. W. R. Meadows, Inc; Duogard II (water-based): www.wrmeadows.com/#sle.
c. Substitutions: See Section 016000 - Product Requirements.
C. Form Release Agent: Colorless mineral oil that will not stain concrete.
D. Filler Strips for Chamfered Corners: Wood strip type; 3/4 x 3/4 inch size; maximum possible lengths.
E. Dovetail Anchor Slot: Galvanized steel, at least 22 gauge, 0.0299 inch thick, foam filled, release tape sealed slots, anchors for securing to concrete formwork.
F. Flashing Reglets: Galvanized steel, at least 22 gauge, 0.0299 inch thick, longest possible lengths, with alignment splines for joints, foam filled, release tape sealed slots, anchors for securing to concrete formwork.
G. Nails, Spikes, Lag Bolts, Through Bolts, Anchorages: Sized as required, of sufficient strength and character to maintain formwork in place while placing concrete.
H. Embedded Anchor Shapes, Plates, Angles and Bars: As specified in Section 051200.
I. Waterstops: PVC, complying with COE CRD-C 572.
1. All horizontal and vertical construction joints shall contain a rubber water stop.
2. Configuration: As indicated on drawings.
3. Size: As indicated on drawings. If not shown use 4" minimum bulb tee type.
4. Manufacturers:
a. BoMetals, Inc: www.bometals.com/#sle.
b. Greenstreak: www.usa.sika.com/en/construction/concrete/concrete-accessories/waterstop-systems/pvc-waterstop/greenstreak-pvc-waterstop.html.
c. Substitutions: See Section 016000 - Product Requirements.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify lines, levels and centers before proceeding with formwork. Ensure that dimensions agree with drawings.

3.2 EARTH FORMS
A. Hand trim sides and bottom of earth forms. Remove loose soil prior to placing concrete.

3.3 ERECTION - FORMWORK
A. Erect formwork, shoring and bracing to achieve design requirements, in accordance with requirements of ACI 301.
B. Provide bracing to ensure stability of formwork. Shore or strengthen formwork subject to overstressing by construction loads.
C. Arrange and assemble formwork to permit dismantling and stripping. Do not damage concrete during stripping. Permit removal of remaining principal shores.
D. Align joints and make watertight. Keep form joints to a minimum.
E. Obtain approval before framing openings in structural members that are not indicated on drawings.
F. Install void forms in accordance with manufacturer's recommendations. Protect forms from moisture or crushing.
G. Coordinate this section with other sections of work that require attachment of components to formwork.
H. If formwork is placed after reinforcement, resulting in insufficient concrete cover over reinforcement, request instructions from Architect/Structural Engineer of Record before proceeding.

3.4 APPLICATION - FORM RELEASE AGENT
A. Apply form release agent on formwork in accordance with manufacturer's recommendations.
B. Apply prior to placement of reinforcing steel, anchoring devices, and embedded items.
C. Do not apply form release agent where concrete surfaces will receive special finishes or applied coverings that are affected by agent. Soak inside surfaces of untreated forms with clean water. Keep surfaces coated prior to placement of concrete.

3.5 REMOVAL OF FORMS
A. Side forms of beams, walls and columns may be removed after cumulatively curing at not less than 50 degrees F (10 degrees C) for 24 hours after placing concrete, provided concrete is sufficiently hard to not be damaged by form removal operations, and provided curing and protection operations are maintained.
B. Wall, beam, joist and slab soffits may be removed when all of the following conditions are satisfied:
1. Strength of concrete as shown by standard cylinder test has reached at least 2,500 psi and at least 75% of specified design strength.
2. Concrete has cured at least 7 days (4 days for type 3 cement) or additional time as required if during cold weather.
3. Soffit forms shall not be removed from members that are supporting any load such as construction materials or shoring for floor or roof above unless it can be determined that the member as sufficient strength to support such loading.

3.6 INSERTS, EMBEDDED PARTS, AND OPENINGS
A. Provide formed openings where required for items to be embedded in passing through concrete work.
B. Locate and set in place items that will be cast directly into concrete.
C. Coordinate with work of other sections in forming and placing openings, slots, reglets, recesses, sleeves, bolts, anchors, other inserts, and components of other work.
D. Position recessed anchor slots for brick veneer masonry anchors to spacing and intervals specified in Section 042613.
E. Install accessories in accordance with manufacturer's instructions, so they are straight, level, and plumb. Ensure items are not disturbed during concrete placement.
F. Install waterstops in accordance with manufacturer's instructions, so they are continuous without displacing reinforcement. Heat seal joints so they are watertight.
G. Provide temporary ports or openings in formwork where required to facilitate cleaning and inspection. Locate openings at bottom of forms to allow flushing water to drain.
H. Close temporary openings with tight fitting panels, flush with inside face of forms, and neatly fitted so joints will not be apparent in exposed concrete surfaces.

3.7 FORM CLEANING
A. Clean forms as erection proceeds, to remove foreign matter within forms.
B. Clean formed cavities of debris prior to placing concrete.
1. Flush with water or use compressed air to remove remaining foreign matter. Ensure that water and debris drain to exterior through clean-out ports.
2. During cold weather, remove ice and snow from within forms. Do not use de-icing salts. Do not use water to clean out forms, unless formwork and concrete construction proceed within heated enclosure. Use compressed air or other means to remove foreign matter.

3.8 FORMWORK TOLERANCES
A. Construct formwork to maintain tolerances required by ACI 117, unless otherwise indicated.
B. Construct and align formwork for elevator hoistway in accordance with ASME A17.1.
C. Camber slabs and beams 1/4 inch per 10 feet.

3.9 FORMWORK FINISH
A. Construct formwork in accordance with ACI 347, unless otherwise indicated.
B. Refer to architectural drawings for exposure of formed surfaces.
1. The following defines class of finish:
a. Class A - Surfaces prominently exposed to public view where appearance is of special importance, typically noted on architectural drawings as "exposed"
b. Class B - Coarse textured concerete formed surfaced intended to receive plaster, stucco or wainscoting.
c. Class C - General standard for permanently exposed surfaces where other finishes are not specified.
d. Class D - Minimal quality requirement for surfaces where roughness is not objectionable, usually applied where surface will be permanently concealed.

3.10 FIELD QUALITY CONTROL
A. An independent testing agency will perform field quality control tests, as specified in Section 014000 - Quality Requirements.
B. Inspect erected formwork, shoring, and bracing to ensure that work is in accordance with formwork design, and to verify that supports, fastenings, wedges, ties, and items are secure.
C. Do not reuse wood formwork more than 2 times for concrete surfaces to be exposed to view. Do not patch formwork.

3.11 FORM REMOVAL
A. Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads.
B. Loosen forms carefully. Do not wedge pry bars, hammers, or tools against finish concrete surfaces scheduled for exposure to view.
C. Store removed forms to prevent damage to form materials or to fresh concrete. Discard damaged forms.

END OF SECTION

SECTION 032000
CONCRETE REINFORCING

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Reinforcing steel for cast-in-place concrete.
B. Supports and accessories for steel reinforcement.

1.2 RELATED REQUIREMENTS
A. Section 031000 - Concrete Forming and Accessories.
B. Section 033000 - Cast-in-Place Concrete.
C. Section 042000 - Unit Masonry: Reinforcement for masonry.

1.3 REFERENCE STANDARDS
A. ACI 301 - Specifications for Concrete Construction; 2020.
B. ACI 318 - Building Code Requirements for Structural Concrete; 2019, with Errata (2021).
C. ACI SP-66 - ACI Detailing Manual; 2004.
D. ASTM A82/A82M - Standard Specification for Steel Wire, Plain, for Concrete Reinforcement; 2007.
E. ASTM A184/A184M - Standard Specification for Welded Deformed Steel Bar Mats for Concrete Reinforcement; 2019.
F. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2022.
G. ASTM A996/A996M - Standard Specification for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement; 2016.
H. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2018a.
I. AWS D1.4/D1.4M - Structural Welding Code - Steel Reinforcing Bars; 2018, with Amendment (2020).
J. CRSI (DA4) - Manual of Standard Practice; 2009.
K. CRSI (P1) - Placing Reinforcing Bars, 10th Edition; 2019.

1.4 SUBMITTALS
A. See Section 013000 - Administrative Requirements, for submittal procedures.
B. Shop Drawings: Comply with requirements of ACI SP-66. Include bar schedules, shapes of bent bars, spacing of bars, and location of splices.
C. The Contractor shall obtain completely detailed shop drawings showing placement plans, bar bending lists, etc. Include the specific location and size of all accessories, chairs and bar supports. The Contractor shall carefully check these drawings, then submit them to the Architect/Engineer. The Architect/Engineer may conduct limited spot checks aimed solely at determining general comprehension of the design intent, then return them to the Contractor. The Contractor shall then carefully recheck the shop drawings and approve them prior to fabrication.
1. NOTE: Regardless of the fabricators standard policy or other industry standards of practice, all straight and bent bars shall be tagged with the member mark. If the fabricator elects to use member marks other than those shown on the structural drawings, the members must also be labeled with the original engineer's member marks in addition to those of the fabricator.
D. The Engineer's spot check shall not relieve the Contractor from correcting, at his own expense, any items that may thereafter be found not to comply with the plans and specifications.
E. Manufacturer's Certificate: Certify that reinforcing steel and accessories supplied for this project meet or exceed specified requirements.
F. Reports: Submit certified copies of mill test report of reinforcement materials analysis.

1.5 QUALITY ASSURANCE
A. Perform work of this section in accordance with ACI 301.

PART 2 PRODUCTS

2.1 REINFORCEMENT
A. ALL REINFORCING (Unless noted otherwise)
1. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi).
a. Plain billet-steel bars.
B. BEAM STIRRUPS and COLUMN TIES
1. Reinforcing Steel: Deformed bars, ASTM A996/A996M Grade 40 (280), Type A.
C. Steel Welded Wire Reinforcement (WWR): Galvanized, deformed type; ASTM A1064/A1064M.
1. Form: Flat Sheets.
2. WWR Style: As indicated on drawings.
D. Reinforcement Accessories:
1. Tie Wire: Annealed, minimum 16 gauge, 0.0508 inch.
2. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for adequate support of reinforcement during concrete placement.

2.2 RE-BAR SPLICING:
A. Coupler Systems: Mechanical devices for splicing reinforcing bars; capable of developing full steel reinforcing design strength in tension and compression.
1. Products:
a. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
b. Substitutions: See Section 016000 - Product Requirements.
B. Dowel Bar Splicer with Dowel-Ins: Mechanical devices for connecting dowels; capable of developing full steel reinforcing design strength in tension and compression.
1. Products:
a. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
b. Substitutions: See Section 016000 - Product Requirements.

2.3 FABRICATION
A. Fabricate concrete reinforcing in accordance with CRSI (DA4) - Manual of Standard Practice.
B. Welding of reinforcement is not permitted.
C. Locate reinforcing splices not indicated on drawings at point of minimum stress.
1. Review locations of splices with Architect/Structural Engineer of Record .

PART 3 EXECUTION

3.1 PLACEMENT
A. Place, support and secure reinforcement against displacement. Do not deviate from required position.
B. Do not displace or damage vapor barrier.
C. Accommodate placement of formed openings.

3.2 FABRICATION
A. Reinforcing shall be fabricated in accordance with "Manual of Standard Building Code Requirements for Reinforced Concrete" (ACI 318), latest edition. The Contractor shall be responsible for obtaining properly fabricated reinforcing and placing it properly.
B. Reinforcing steel, at the time concrete is placed, shall be free from excessive rust, scale, dried concrete, or other coatings that will destroy or reduce bond, in the opinion of the Engineer.
C. Reinforcing steel shall be accurately shop bent and placed in position, securely tied or supported to prevent movement during placing of concrete. Field bends will not be permitted without prior approval from Engineer. Authorized field bends shall be performed cold; no heating is permitted. Spacer bars, supports and accessories are not scheduled but are to be furnished and placed as described under MATERIALS paragraph in this Section. Raising of reinforcement (including welded wire fabric) during the pour will not be permitted.

3.3 CONCRETE COVER
A. SUSPENDED STRUCTURES
1. Unless detailed otherwise on plans, reinforcing bars shall have concrete cover as follows:
a. Beam Stirrups; top, bottom and sides, 1-1/2".
b. Column ties and spirals, 1-1/2".
c. Concrete joists and slabs, 3/4".
d. Spread or spot footings, 3".
B. SLAB AND BEAMS ON FILL
1. Chair and/or block reinforcing securely in position with concrete cover as follows:
a. Beam stirrups; top, 1-1/2", bottom and sides 3".
b. Slab bars; 1-1/2" from top.
2. Support reinforcing steel on concrete blocks or bricks spaced at approximately 4'-0" o.c. in each direction.

3.4 SPLICES
A. Necessary splices not shown on drawings or otherwise noted shall be in accordance with ACI specifications for bar sizes up to #11 size, but not less than 40 bar diameters. Splices in bars larger than #11 shall be made with approved thermal or mechanical coupling devices. Welding wire fabric shall be lapped 1-1/2 meshes, with a minimum lap of 8". All lap splices shall be contact type secured with annealed tie wire.

3.5 SLAB OPENINGS
A. Unless shown otherwise, at slab openings of 12" or less, spread main reinforcing around opening. At slab openings greater than 12", provide 2 #4x4'-0" bottom placed diagonally at each corner. At sides of openings, provide one full bar for each bar cut at opening. No main bars shall be cut without Engineer's approval.

3.6 CONDUITS IN SLABS
A. Electrical and mechanical conduit in slabs or joists shall run under upper layer of reinforcing or wire mesh; provide a minimum of 1-1/2" clear between conduits and between conduit and parallel reinforcing. Do not "bundle" conduits. See CONCRETE FORMWORK Section for thickened slab required at large conduits.

3.7 BEAM INTERSECTIONS
A. Unless shown otherwise on plans, at corners, angle bends and at junction with other beams, provide four #7x5'-0" "corner bars" (3 ft. each leg) , 2 top and 2 bottom. For deep beams with scheduled intermediate bars, provide matching 80 diameter corner bars" of the same size. At "T" intersection, place all "corner bars" so that one leg is in outside face of outside beam.

3.8 WALL INTERSECTIONS
A. Unless shown otherwise, at corners, angle bends, and at junction with other walls, lap all horizontal bars in both faces 30 diameters or use matching 80 diameter "Corner Bars".

3.9 BEAM TO WALL CONNECTION
A. Unless shown otherwise, where beam abuts or frames into concrete wall, extend beam bars 30 diameters into wall, or use 60 diameter dowels or 60 diameter "corner bars" with 30 diameter embedment into both beam and wall; bar size and quantity shall match beam bars. See CONCRETE FORMWORK section for key seat at construction joint.

3.10 WALL ENDS
A. Unless shown otherwise, where walls stop, position two (2) of the wall vertical bars at the end of the wall; provided that vertical bars are #6 or larger. If wall vertical bars are smaller that #6, use 2 #6 at wall ends in lieu of wall vertical bars. Provide #4 U-bars (30 diameter laps) enclosing vertical bars at end faces, same spacing as horizontal bars.

3.11 OPENINGS IN CONCRETE WALLS
A. Unless shown otherwise, Add 2 #6 bars in each face over opening, extending 30 diameters beyond limits of opening, and add 2#5x5'-0" placed diagonally at each corner of opening. Provide #4 U-bars (30 diameter laps) at end faces for each bar (horizontal or vertical) interrupted by opening. U-bars shall enclose horizontal or vertical bars at opening.

3.12 WALL DOWELS
A. Unless shown otherwise, provide 60 diameter wall dowels from beam or footing to match the size and spacing of all vertical bars in wall above; extend 30 diameters into wall. At construction joints, either continue all vertical bars or provide for 30 diameter laps of all vertical bars into wall above.

3.13 COLUMN DOWELS
A. Unless shown otherwise, provide dowels from bottom of beams, piers, footings or walls to match the size and quantity of bars scheduled in column above; extend 30 diameters into column. At construction joints, extend all vertical bars 30 diameters into column above; offset bars on 1 to 6 slope to provide proper lapping of bars in column above. If offset exceeds 3", stop lower column bars and provide separate 60 diameter dowels as described under "COLUMN DOWELS" above. Use contact lap splices as shown in details at column schedule.

3.14 COLUMN REINFORCEMENT
A. Unless shown otherwise, provide scheduled ties along full length of vertical bars and dowels except that at soffit down into column below and above construction joints, start first tie at one half of scheduled tie spacing. Also, unless shown otherwise, include scheduled ties in areas of floor or roof framing members unless width of framing members exceeds width of column above by at least 2" on all four faces. Columns built into concrete walls shall be reinforced same as scheduled column. Two-piece ties shall be deformed bars only and minimum laps shall be 12" for No.3 bars; 15" for No. 4 bars. Terminate column vertical bars at an elevation of 3" below top of upper roof beam unless otherwise detailed; bars shall lap into upper roof beam at least 30 diameters; provide 90 degree bend at bar ends as required to accomplish this.

3.15 COLUMN PIER CAPS
A. At columns carried directly by footing piers, and/or other places indicated on plans, construct a transitional pier cap extending from pier to column to allow accurate dowel or anchor bolt setting. Extend footing shaft reinforcing including hooping, to within 3" of top of plinth and make double wrap at top. Column dowels are as scheduled for column above. If column dowels occur outside of pier shaft hooping, provide "U" shaped ties (sizes, number, and spacing as scheduled for column above) for all such dowels.

3.16 TOPPING REINFORCEMENT
A. Reinforcement (including welded wire fabric) shall be chaired to proper depth as shown on plans and sections. Raising of reinforcement during pour is not acceptable.
B. CONSTRUCTION JOINTS
C. Provide and locate as necessary in CAST-IN-PLACE CONCRETE Section.
D. All reinforcing shall continue through the joint.
E. Add extra reinforcing if so directed by Engineer.

3.17 FIELD QUALITY CONTROL
A. An independent testing agency, as specified in Section 014000 - Quality Requirements, will inspect installed reinforcement for compliance with contract documents before concrete placement.

END OF SECTION

SECTION 033000
CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Concrete building frame members.
B. Concrete for composite floor construction.
C. Elevated concrete slabs.
D. Floors and slabs on grade.
E. Concrete shear walls, elevator shaft walls, and foundation walls.
F. Joint devices associated with concrete work.
G. Miscellaneous concrete elements, including equipment pads, equipment pits, light pole bases, flagpole bases, thrust blocks, and manholes.
H. Concrete curing.

1.2 RELATED REQUIREMENTS
A. Section 031000 - Concrete Forming and Accessories: Forms and accessories for formwork.
B. Section 032000 - Concrete Reinforcing.
C. Section 033511 - Concrete Floor Finishes: Densifiers, hardeners, applied coatings, and polishing.
D. Section 079200 - Joint Sealants: Products and installation for sealants and joint fillers for saw cut joints and isolation joints in slabs.

1.3 REFERENCE STANDARDS
A. ACI 117 - Specification for Tolerances for Concrete Construction and Materials; 2010 (Reapproved 2015).
B. ACI 211.1 - Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete; 1991 (Reapproved 2009).
C. ACI 301 - Specifications for Concrete Construction; 2020.
D. ACI 302.1R - Guide to Concrete Floor and Slab Construction; 2015.
E. ACI 304R - Guide for Measuring, Mixing, Transporting, and Placing Concrete; 2000 (Reapproved 2009).
F. ACI 305R - Guide to Hot Weather Concreting; 2020.
G. ACI 306R - Guide to Cold Weather Concreting; 2016.
H. ACI 308R - Guide to External Curing of Concrete; 2016.
I. ACI 318 - Building Code Requirements for Structural Concrete; 2019, with Errata (2021).

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II
SHEET TITLE: PROJECT SPECIFICATIONS
PROJECT NO: 2308 A1
△ REVISIONS DATE
SHEET NO: S-401

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24

J. ACI 347R - Guide to Formwork for Concrete; 2014 (Reapproved 2021).
K. ASTM A185/A185M - Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete; 2007.
L. ASTM A497/A497M - Standard Specification for Steel Welded Wire Reinforcement, Deformed, for Concrete; 2007.
M. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2018.
N. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2021.
O. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete; 2022.
P. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens); 2021.
Q. ASTM C143/C143M - Standard Test Method for Slump of Hydraulic-Cement Concrete; 2020.
R. ASTM C150/C150M - Standard Specification for Portland Cement; 2022.
S. ASTM C171 - Standard Specification for Sheet Materials for Curing Concrete; 2020.
T. ASTM C260/C260M - Standard Specification for Air-Entraining Admixtures for Concrete; 2010a (Reapproved 2016).
U. ASTM C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete; 2019.
V. ASTM C494/C494M - Standard Specification for Chemical Admixtures for Concrete; 2019.
W. ASTM C618 - Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete; 2019.
X. ASTM C685/C685M - Standard Specification for Concrete Made by Volumetric Batching and Continuous Mixing; 2017.
Y. ASTM C881/C881M - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete; 2020a.
Z. ASTM C1059/C1059M - Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete; 2021.
AA. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.
BB. ASTM C1602/C1602M - Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete; 2018.
CC. ASTM D994/D994M - Standard Specification for Preformed Expansion Joint Filler for Concrete (Bituminous Type); 2011 (Reapproved 2022).
DD. ASTM D1751 - Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types); 2018.
EE. ASTM D2103 - Standard Specification for Polyethylene Film and Sheeting; 2015.
FF. ASTM E1155/E1155M - Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers; 2023.
GG. ASTM E1155M - Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers (Metric); 2014.
HH. ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs; 2017.
II. COE CRD-C 513 - Handbook for Concrete and Cement Corps of Engineers Specifications for Rubber Waterstops; 1974.
JJ. COE CRD-C 572 - Handbook for Concrete and Cement Corps of Engineers Specifications for Polyvinylchloride Waterstop; 1974.
KK. ICRI 310.2R - Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair; 2013.
LL. NSF 61 - Drinking Water System Components - Health Effects; 2021.
MM. NSF 372 - Drinking Water System Components - Lead Content; 2022.

1.4 SUBMITTALS
A. See Section 013000 - Administrative Requirements for submittal procedures.
B. Mix Design: Submit mix design for each type of concrete proposed.
C. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
1. For curing compounds, provide data on method of removal in the event of incompatibility with floor covering adhesives.
D. Mix Design: Submit proposed concrete mix design.
1. Indicate proposed mix design complies with requirements of ACI 301, Section 4 - Concrete Mixtures.
2. Indicate proposed mix design complies with requirements of ACI 318, Chapter 5 - Concrete Quality, Mixing and Placing.
E. Test Reports: Submit report for each test or series of tests specified.
F. Sustainable Design Submittal: If any fly ash, ground granulated blast furnace slag, silica fume, rice hull ash, or other waste material is used in mix designs to replace Portland cement, submit the total volume of concrete cast in place, mix design(s) used showing the quantity of portland cement replaced, reports showing successful cylinder testing, and temperature on day of pour if cold weather mix is used.

1.5 QUALITY ASSURANCE
A. Perform work of this section in accordance with ACI 301 and ACI 318.
B. Follow recommendations of ACI 305R when concreting during hot weather.
C. Follow recommendations of ACI 306R when concreting during cold weather.

1.6 MOCK-UP
A. Construct and erect mock-up panel for architectural concrete surfaces indicated to receive special treatment or finish as result of formwork.
1. Panel Size: Sufficient to illustrate full range of treatment.
2. Panel Size: 6 by 6 feet.
3. Number of Panels: Two.
B. If requested by Architect/Structural Engineer of Record , cast concrete against mock-up panel. Obtain acceptance of resulting surface finish prior to erecting formwork.

PART 2 PRODUCTS

2.1 FORMWORK
A. Comply with requirements of Section 031000.

2.2 REINFORCEMENT MATERIALS
A. Comply with requirements of Section 032000.

2.3 CONCRETE MATERIALS
A. Cement: ASTM C150, Type I - Normal Portland type.
1. Acquire cement for entire project from same source.
B. Fine and Coarse Aggregates: ASTM C33/C33M.
1. Acquire aggregates for entire project from same source.
C. Fly Ash: ASTM C618, Class C or F.
D. Water: ASTM C1602/C1602M; clean, potable, and not detrimental to concrete.

2.4 ADMIXTURES
A. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.
B. High Range Water Reducing and Retarding Admixture: ASTM C494/C494M Type G.
C. High Range Water Reducing Admixture: ASTM C494/C494M Type F.
D. Water Reducing and Accelerating Admixture: ASTM C494/C494M Type E.
E. Water Reducing and Retarding Admixture: ASTM C494/C494M Type D.
F. Accelerating Admixture: ASTM C494/C494M Type C.
G. Retarding Admixture: ASTM C494/C494M Type B.
H. Water Reducing Admixture: ASTM C494/C494M Type A.
I. Shrinkage Reducing Admixture:
1. ASTM C494/C494M, Type S.
J. Waterproofing Admixture: Admixture formulated to reduce permeability to liquid water, with no adverse effect on concrete properties.
1. Potable Water Contact Approval: National Science Foundation (NSF) certification for use on structures holding potable water, based on testing in accordance with NSF 61 and NSF 372
2. Products:
a. Aquafin, Inc: www.aquafin.net/#sle.
b. Xypex Chemical Corporation; XYPEX Admix C-500: www.xypex.com/#sle.

2.5 ACCESSORY MATERIALS
A. Underslab Vapor Barrier (Slab on Grade):
1. Materials
a. Sheet Retarder: Polyolefin film, 15 mil thick minimum; able to maintain water vapor permeance of 0.01 perms tested in accordance with mandatory conditioning tests per ASTM E1745, Section 7.1 (7.1.1-7.1.5) , tensile strength conforming with ASTM E1745 Class A and ACI 302.1R.
2. MANUFACTURERS / PRODUCTS
a. Henry Company; Fortifiber Moistop Ultra: www.henry.com.
b. Reef Industries / Vaporguard; www.reefindustries.com
c. Stego Industries LLC / Stego Wrap Vapor Barrier; www.stegoindustries.com. (Basis of Design)
d. Reef Griffolyn "15 mil green" by Reef Industries
e. Substitutions: No substitutions.
B. Non-Shrink Cementitious Grout: Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
1. Minimum Compressive Strength at 48 Hours: 2,000 pounds per square inch.
2. Minimum Compressive Strength at 28 Days: 7,000 pounds per square inch.
3. Products containing aluminum powder are not permitted.
4. Flowable Products:
a. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
b. Euclid Chemical Company; NS GROUT: www.euclidchemical.com/#sle.
c. W. R. Meadows, Inc; Speed-E-Roc: www.wrmeadows.com/#sle.
d. Substitutions: See Section 016000 - Product Requirements.
5. Low-Slump, Dry Pack Products:
a. Euclid Chemical Company; DRY PACK GROUT: www.euclidchemical.com/#sle.
b. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
c. W. R. Meadows, Inc; PAC-IT: www.wrmeadows.com/#sle.
d. Substitutions: See Section 016000 - Product Requirements.

2.6 BONDING AND JOINTING PRODUCTS
A. Latex Bonding Agent: Non-redispersable acrylic latex, complying with ASTM C1059/C1059M, Type II.
1. Products:
a. Euclid Chemical Company; AKKRO-7T: www.euclidchemical.com/#sle.
b. SpecChem, LLC; Strong Bond Acrylic Bonder: www.specchemllc.com/#sle.
c. W. R. Meadows, Inc; ACRY-LOK-: www.wrmeadows.com/#sle.
d. Substitutions: See Section 016000 - Product Requirements.
B. Epoxy Bonding System:
1. Complying with ASTM C881/C881M and of Type required for specific application.
2. Products:
a. Euclid Chemical Company; DURAL FAST SET LV: www.euclidchemical.com/#sle.
b. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
c. SpecChem, LLC; SpecPoxy 1000, SpecPoxy 2000, SpecPoxy 3000, or SpecPoxy 3000FS: www.specchemllc.com/#sle.
d. W. R. Meadows, Inc; Rezi-Weld Gel Paste, Rezi-Weld Gel Paste State, Rezi-Weld 1000: www.wrmeadows.com/#sle.
e. Substitutions: See Section 016000 - Product Requirements.
C. Waterproofing Admixture Slurry: Slurry coat of Portland cement, sand, and crystalline waterproofing additive, mixed with water in proportions recommended by manufacturer to achieve waterproofing at cold joints in concrete.
1. Products:
a. Aquafin, Inc: www.aquafin.net/#sle.
b. W. R. Meadows, Inc; ADI-CON CW Plus: www.wrmeadows.com/#sle.
c. Xypex Chemical Corporation; XYPEX Concentrate: www.xypex.com/#sle.
d. Substitutions: See Section 016000 - Product Requirements.
D. Waterstops: Rubber, complying with COE CRD-C 513.
1. **All construction joints, pour breaks, etc. with soil on one side or other shall have a waterstop. All waterstops are not shown on drawings.**
a. Configuration: Ribbed with centerbulb
b. Size: 6".
c. Products:
1) Greenstreak Model 705.
2) Greenstreak Model 724 (for form saver).
3) Greestreak Model 698 (for base seal)
4) Greenstreak Model 667 (for retrofit systems)
d. Substitutions: See Section 016000 - Product Requirements.
E. Reglets: Formed steel sheet, galvanized, with temporary filler to prevent concrete intrusion during placement.
1. Size: As indicated on drawings.
F. Joint Filler: Nonextruding, resilient asphalt impregnated fiberboard or felt, complying with ASTM D 1751, 1/4 inch thick and 4 inches deep ; tongue and groove profile.
G. Joint Filler: Compressible asphalt mastic with felt facers, complying with ASTM D 994, thickness as indicated on drawings and full depth of slab less 1/2 inch.
H. Slab Construction Joint Devices: Combination keyed joint form and screed, galvanized steel, with rectangular or round knockout holes for conduit or rebar to pass through joint form at 6 inches on center; ribbed steel stakes for setting.

2.7 CURING MATERIALS
A. Evaporation Reducer: Liquid thin-film-forming compound that reduces rapid moisture loss caused by high temperature, low humidity, and high winds; intended for application immediately after concrete placement.
1. Products:
a. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
b. Euclid Chemical Company ; www.euclidchemical.com/#sle.
c. SpecChem, LLC; SpecFilm Concentrate or SpecFilm: www.specchemllc.com/#sle.
d. W. R. Meadows, Inc ; Evapre or Evapre-RTU: www.wrmeadows.com/#sle.
e. Substitutions: See Section 016000 - Product Requirements.
B. Curing Compound, Naturally Dissipating: Clear, water-based, liquid membrane-forming compound; complying with ASTM C309.
1. Product dissipates within 4 to 6 weeks.
2. Products:
a. Dayton Superior Corporation: www.daytonsuperior.com.
b. Euclid Chemical Company; www.euclidchemical.com.
c. SpecChem, LLC; SpecRez: www.specchemllc.com.
d. W. R. Meadows, Inc; 1100-Clear: www.wrmeadows.com.
e. Substitutions: See Section 016000 - Product Requirements.
C. Curing Compound, Non-dissipating: Liquid, membrane-forming, clear, non-yellowing acrylic; complying with ASTM C309.
1. Vehicle: Water-based.
2. Gloss: Low.
3. Solids by Mass: 15 percent, minimum.
4. VOC Content: OTC compliant.
5. Products:
a. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
b. L&M Construction Chemicals, Inc, a subsidiary of Laticrete International, Inc; Dress & Seal: www.lmcc.com/#sle.
c. L&M Construction Chemicals, Inc, a subsidiary of Laticrete International, Inc; Dress & Seal WB: www.lmcc.com/#sle.
D. Moisture-Retaining Sheet: ASTM C171.
1. Curing paper, regular.
2. Polyethylene film, white opaque, minimum nominal thickness of 4 mil, 0.004 inch.
3. White-burlap-polyethylene sheet, weighing not less than 3.8 ounces per square yard.
E. Polyethylene Film: ASTM D2103, 4 mil, 0.004 inch thick, clear.
F. Water: Potable, not detrimental to concrete.

2.8 CONCRETE MIX DESIGN
A. Proportioning Normal Weight Concrete: Comply with ACI 211.1 recommendations.
B. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI 301.
1. For trial mixtures method, employ independent testing agency acceptable to Architect/Structural Engineer of Record for preparing and reporting proposed mix designs.
C. Admixtures: Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended or required by manufacturer.
D. Normal Weight Concrete:
1. Compressive Strength, when tested in accordance with ASTM C 39/C 39M at 28 days: 3000 psi.
a. Fly Ash Content: Maximum 20 percent of cementitious materials by weight.
b. Cement Content: Minimum 470 lb per cubic yard.
c. Maximum Slump: 5 inches.+/- 1/2"
1) Slump shall be increased to 8 inches for drilled footings by means of chemical admixtures.
d. Maximum Aggregate Size:
1) SLAB AND BEAMS ON FILL
(a) Unless detailed otherwise on plans maximum aggregate size shall be as follows:
(1) Beams and slabs, 1".
E. Control Low Strength Material (Flowable Fill):
1. Compressive Strength, when tested in accordance with ASTM C 39/C 39M at 28 days: 50 to 100 psi.
2. Cement Content: Minimum 100 lb per cubic yard.
3. Fly Ash Content: Minimum 300 lb per cubic yard.
4. Sand Content: Minimum 2,800 lb per cubic yard.
5. Added Water Minimum 500 lb per cubic yard.

2.9 MIXING
A. On Project Site: Mix in drum type batch mixer, complying with ASTM C685/C685M. Mix each batch not less than 1-1/2 minutes and not more than 5 minutes.
B. Transit Mixers: Comply with ASTM C94/C94M.
C. Adding Water: If concrete arrives on-site with slump less than suitable for placement, do not add water that exceeds the maximum water-cement ratio or exceeds the maximum permissible slump.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify lines, levels, and dimensions before proceeding with work of this section.
B. Verify condition of substrate and adjacent materials under provisions of Section 01 40 00 - Quality Requirements.

3.2 CONSTRUCTION JOINTS
A. Provide in monolithic concrete framing so that not more than 400 cubic yards is placed in one day and no side dimension of the section being concreted is greater than 150 feet. Larger areas shall be approved by the Engineer.
B. Locate so as not to impair the strength of the structure, and coordinate the location and details with the Architect/Engineer. Location shall generally be near the middle of the spans of slabs and beams with wood or steel-formed soffits. When soffits are formed with cardboard cartons, locate construction joint on centerline of pier.
C. Provisions shall be made for transfer of shear and other forces through the joint. Generally this shall consists of forming horizontal keyways at mid-depth, 1-1/2" deep X 1/3 of beam or slab depth and allowing all reinforcing to continue through the joint. Add extra reinforcing if so directed by Engineer.
D. Follow procedure for "Bonding new concrete to old", as described herein.
E. Provide waterstops at all construction joints with soil or water on one side or other.

3.3 PREPARATION
A. Formwork: Comply with requirements of ACI 301. Design and fabricate forms to support all applied loads until concrete is cured, and for easy removal without damage to concrete.
B. Verify that forms are clean and free of rust before applying release agent.
C. Coordinate placement of embedded items with erection of concrete formwork and placement of form accessories.
D. Prepare existing concrete surfaces to be repaired according to ICRI 310.2R.
E. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning and applying bonding agent in according to bonding agent manufacturer's instructions.
1. Use epoxy bonding system for bonding to damp surfaces, for structural load-bearing applications, and where curing under humid conditions is required.
2. Use latex bonding agent only for non-load-bearing applications.
F. Where new concrete with integral waterproofing is to be bonded to previously placed concrete, prepare surfaces to be treated in accordance with waterproofing manufacturer's instructions. Saturate cold joint surface with clean water, and remove excess water before application of coat of waterproofing admixture slurry. Apply slurry coat uniformly with semi-stiff bristle brush at rate recommended by waterproofing manufacturer.
G. In locations where new concrete is doweled to existing work, drill holes in existing concrete, insert steel doweis and pack solid with non-shrink grout.

3.4 INSTALLING VAPOR RETARDER
A. Install materials in accordance with manufacturer's instructions and ASTM E1643.
B. Install vapor retarder with long dimension in direction of pour.
C. Extend vapor retarder to the perimeter of the slab. If practicable, terminate it at approximately the level of finish grade or slightly below, otherwise (a) at a point acceptable to the structural engineer or (b) where obstructed by impediments, such as dowels, waterstops, or any other site conditions requiring early termination of the vapor retarder. At the point of termination, seal vapor retarder to the slab itself using Stego Crete Claw tape, per manufacturer's instructions.
D. Overlap vapor retarder 6 inches where jointing is required. Seal with manufacturer's tape.
E. Seal all penetrations (including pipes) per manufacturer's instructions.
F. Penetrations through the vapor barrier are prohibited except reinforcing steel and permanent
G. Repair damaged areas in accordance with manufacturer's requirements.
H. Contact the manufacturer's representative to coordinate a review of the vapor retarder installation either by digital review or in person.

3.5 INSTALLING REINFORCEMENT AND OTHER EMBEDDED ITEMS
A. Comply with requirements of ACI 301. Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete coverage required for protection.
B. Install welded wire reinforcement in maximum possible lengths, and offset end laps in both directions. Splice laps with tie wire.
C. Verify that anchors, seats, plates, reinforcement and other items to be cast into concrete are accurately placed, positioned securely, and will not interfere with concrete placement.
D. Provide waterstop material at all joints below grade.

3.6 PLACING CONCRETE
A. Place concrete in accordance with ACI 304R.
B. Place concrete for floor slabs in accordance with ACI 302.1R.
C. Notify Architect/Structural Engineer of Record not less than 24 hours prior to commencement of placement operations.
D. Ensure reinforcement, inserts, waterstops, embedded parts, and formed construction joint devices will not be disturbed during concrete placement.
E. Finish floors level and flat, unless otherwise indicated, within the tolerances specified below.

3.7 SLAB JOINTING
A. Locate joints as indicated on drawings or as submitted and approved by Architect/Engineer.
B. Provide waterstop material per paragraph above at all joints below grade and joints shown to have waterstop.
C. Anchor joint fillers and devices to prevent movement during concrete placement.
D. Isolation Joints: Use preformed joint filler with removable top section for joint sealant, total height equal to thickness of slab, set flush with top of slab.
E. Load Transfer Construction and Contraction Joints: Install load transfer devices as indicated; saw cut joint at surface as indicated for contraction joints.
F. Saw Cut Contraction Joints: Saw cut joints before concrete begins to cool, within 4 to 12 hours after placing; use 3/16 inch thick blade and cut at least 1 inch deep but not less than one quarter (1/4) the depth of the slab.
G. Construction Joints: Where not otherwise indicated, use metal combination screed and key form, with removable top section for joint sealant.
H. Repair underslab vapor retarder damaged during placement of concrete reinforcing. Repair with vapor retarder material; lap over damaged areas minimum 6 inches and seal watertight.
I. Separate slabs on grade from vertical surfaces with joint filler.
J. Place joint filler in floor slab pattern placement sequence. Set top to required elevations. Secure to resist movement by wet concrete.
K. Extend joint filler from bottom of slab to within 1/2 inch of finished slab surface. Conform to Section 079005 for finish joint sealer requirements.
L. Install joint devices in accordance with manufacturer's instructions.
M. Install construction joint devices in coordination with floor slab pattern placement sequence. Set top to required elevations. Secure to resist movement by wet concrete.
N. Apply sealants in joint devices in accordance with Section 079005.
O. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.
P. Place concrete continuously between predetermined expansion, control, and construction joints.
Q. Do not interrupt successive placement; do not permit cold joints to occur.

3.8 FLOOR FLATNESS AND LEVELNESS
A. Flatness and levelness tolerances for floors shall conform to the requirements set forth in ACI 117, "Standard Tolerances for Concrete Construction and Materials", particularly section 4.5.6 and 4.5.7. Either of the following specifications is acceptable.
1. Face Floor Profile Numbers (F-Numbers):
a. CONVENTIONAL, BULL-FLOATED; Flatness Ff = 15 Level Fl = 13
b. CONVENTIONAL STRAIGHTEDGED; Flatness Ff = 20 Level Fl = 15
c. FLAT; Flatness Ff = 30 Level Fl = 20
d. VERY FLAT; Flatness Ff = 50 Level Fl = 30
2. 10-ft. Straightedge Method:
a. CONVENTIONAL, BULL-FLOATED; 1/2 in.
b. CONVENTIONAL, STRAIGHTEDGED; 5/16 in.
c. FLAT; 3/16 in.
d. VERY FLAT; 1/8 in.
B. Unless noted otherwise, slab surfaces shall conform to the following criteria:
1. Offices, classrooms, corridors, etc: FLAT.
2. Slabs (permanent or temporary) to be used as casting beds for job cast tilt walls. VERY FLAT
3. Warehouses, storerooms, equipment rooms: STRAIGHTEDGED.
4. Sidewalks, plazas, pavement: BULL-FLOATED.
5. Gymnasium Floors: VERY FLAT
C. Measure F(F) Floor Flatness and F(L) Floor Levelness in accordance with ASTM E1155/E1155M (ASTM E1155M), within 48 hours after slab installation; report both composite overall values and local values for each measured section.
D. Correct the slab surface if composite overall value is less than specified and if local value is less than two-thirds of specified value or less than F(F) 13/F(L) 10.

3.9 SEPARATE FLOOR TOPPINGS
A. Prior to placing floor topping, roughen substrate concrete surface and remove deleterious material. Broom and vacuum clean.
B. Place required dividers, edge strips, reinforcing, and other items to be cast in.
C. Apply bonding agent to substrate in accordance with manufacturer's instructions.
D. Place concrete floor toppings to required lines and levels.
1. Place topping in checkerboard panels not to exceed 20 feet in either direction.

3.10 CONCRETE FINISHING
A. Repair surface defects, including tie holes, immediately after removing formwork.
B. Unexposed Form Finish: Rub down or chip off fins or other raised areas 1/4 inch or more in height.
C. Exposed Form Finish: Rub down or chip off and smooth fins or other raised areas 1/4 inch or more in height. Provide finish as follows:
1. Smooth Rubbed Finish: Wet concrete and rub with carborundum brick or other abrasive, not more than 24 hours after form removal.
D. Concrete Slabs: Finish to requirements of ACI 302.1R, and as follows:
1. Surfaces to Receive Thick Floor Coverings: "Wood float" as described in ACI 302.1R; thick floor coverings include quarry tile, ceramic tile, and Portland cement terrazzo with full bed setting system.
2. Surfaces to Receive Thin Floor Coverings: "Steel trowel" as described in ACI 302.1R; thin floor coverings include carpeting, resilient flooring, seamless flooring, resinous matrix terrazzo, thin set quarry tile, and thin set ceramic tile.
3. Other Surfaces to Be Left Exposed: Trowel as described in ACI 302.1R, minimizing burnish marks and other appearance defects.
a. Chemical Hardener: See Section 033511.
E. In areas with floor drains, maintain floor elevation at walls; pitch surfaces uniformly to drains at 1:100 nominal.

3.11 CURING AND PROTECTION
A. Comply with requirements of ACI 308R. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
1. Normal concrete: Not less than seven days.
2. High early strength concrete: Not less than four days.
C. Formed Surfaces: Cure by moist curing with forms in place for full curing period.
D. Surfaces Not in Contact with Forms:
1. Initial Curing: Start as soon as free water has disappeared and before surface is dry. Keep continuously moist for not less than three days by water ponding, water-saturated sand, water-fog spray, or saturated burlap.
a. Spraying: Spray water over floor slab areas and maintain wet.
or
b. Saturated Burlap: Saturate burlap-polyethylene and place burlap-side down over floor slab areas, lapping ends and sides; maintain in place.
2. Final Curing: Begin after initial curing but before surface is dry.
a. Moisture-Retaining Sheet: Lap strips not less than 3 inches and seal with waterproof tape or adhesive; secure at edges.
or
b. Curing Compound: Apply in two coats at right angles, using application rate recommended by manufacturer.

3.12 FIELD QUALITY CONTROL
A. An independent testing agency will perform field quality control tests, as specified in Section 014000 - Quality Requirements.
B. Provide free access to concrete operations at project site and cooperate with appointed firm.
C. Concrete testing shall be at point of discharge. If concrete it pumped concrete shall be tested at the end of the discharge hose. If deposited directly from truck test may be made at truck.
D. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.
E. Compressive Strength Tests: ASTM C 39/C 39M. For each test, mold and cure four concrete test cylinders. Obtain test samples for every 80 cu yd or less of each class of concrete placed each day with a minimum of 50 cu yd between each test.
F. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.
G. Perform one slump test for each set of test cylinders taken, following procedures of ASTM C143/C143M. Slump test shall be at point of discharge.

3.13 DEFECTIVE CONCRETE
A. Test Results: The testing agency shall report test results in writing to Architect/Structural Engineer of Record and Contractor within 24 hours of test.
B. Defective Concrete: Concrete not complying with required lines, details, dimensions, tolerances or specified requirements.
C. Repair or replacement of defective concrete will be determined by the Architect/Structural Engineer of Record . The cost of additional testing shall be borne by Contractor when defective concrete is identified.
D. Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Architect/Structural Engineer of Record for each individual area.

3.14 PROTECTION
A. Do not permit traffic over unprotected concrete floor surface until fully cured.

3.15 BELOW STRENGTH CONCRETE
A. If the 28-day cylinder strengths fall below the specified strength, the concrete represented by such test cylinders shall be considered unacceptable and subject to removal. Consideration will be given to the acceptance of such concrete if it can be demonstrated to the satisfaction of the Engineer that the cylinder tests do not accurately represent the strength of the concrete in place, or that the structure is fully capable of carrying the loads for which it was designed. This data may be obtained by a series of non-destructive tests and core tests in accordance with ASTM C-42 of the concrete in place, and/or by load testing in accordance with applicable codes. All costs in connection with this additional testing and/or removal and replacement of defective concrete shall be paid by the Contractor.

END OF SECTION

SECTION 033511
CONCRETE FLOOR FINISHES

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Surface treatments for concrete floors and slabs.
B. Liquid densifiers and hardeners.
C. Dry shake hardeners.
D. Clear coatings.

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TX FIRM REG. #3388

DATE: 02/25/2026
STATE OF TEXAS
SHAWN J. FRANKE
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PROJECT: LIVE OAK CCH RESTORATION - PHASE II
SHEET TITLE: PROJECT SPECIFICATIONS
PROJECT NO: 2308 A1
△ REVISIONS DATE
SHEET NO: S-402

1.2 RELATED REQUIREMENTS
A. Section 033000 - Cast-in-Place Concrete: Finishing of concrete surface to tolerance; floating, troweling, and similar operations; curing.
1.3 ADMINISTRATIVE REQUIREMENTS
A. Coordinate the work with concrete floor placement and concrete floor curing.
1.4 SUBMITTALS
A. See Section 013000 - Administrative Requirements, for submittal procedures.
B. Product Data: Manufacturer's published data on each finishing product, including information on compatibility of different products and limitations.
C. Maintenance Data: Provide data on maintenance and renewal of applied finishes.
1.5 MOCK-UP
A. Mock-Up Size: 10 feet square.
B. Locate where directed.
1.6 DELIVERY, STORAGE, AND HANDLING
A. Deliver materials in manufacturer's sealed packaging, including application instructions.
1.7 FIELD CONDITIONS
A. Maintain light level equivalent to a minimum 200 W light source at 8 feet above the floor surface over each 20 foot square area of floor being finished.
B. Do not finish floors until interior heating system is operational.
C. Maintain ambient temperature of 50 degrees F minimum.
1.8 WARRANTY
A. See Section 017800 - Closeout Submittals for additional warranty requirements.
B. Correct defective work within a two-year period commencing on the Date of Substantial Completion.

PART 2 PRODUCTS

2.1 CONCRETE FLOOR FINISH APPLICATIONS
A. Unless otherwise indicated, all concrete floors are to be finished using liquid densifier/hardener.
2.2 SURFACE TREATMENTS
A. Troweling Aid, Densifier and Curing Agent: Liquid reactive colloidal silica-based topical treatment, spray-applied to wet concrete and floated or troweled into the surface.
2.3 DENSIFIERS AND HARDENERS
A. Liquid Densifier and Hardener: Penetrating chemical compound that reacts with concrete, filling the pores and dustproofing; for application to concrete after set.
1. Composition: Lithium silicate.
B. Dry Shake Hardener: Premixed dry powder for spreading on and working into concrete surface prior to set.
1. Composition: Non-metallic aggregate.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify that floor surfaces are acceptable to receive the work of this section.
B. Verify that flaws in concrete have been patched and joints filled with methods and materials suitable for further finishes.
3.2 GENERAL
A. Apply materials in accordance with manufacturer's instructions.
3.3 COATING APPLICATION
A. Verify that surface is free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, fats, oils, grease, wax, soluble salts, residues from cleaning agents, and other impediments to adhesion.
B. Protect adjacent non-coated areas from drips, overflow, and overspray; immediately remove excess material.
C. Apply coatings in accordance with manufacturer's instructions, matching approved mock-ups for color, special effects, sealing and workmanship.

END OF SECTION

DIVISION 05 - METALS

SECTION 051200
STRUCTURAL STEEL FRAMING

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Structural steel framing members.
B. Base plates, shear stud connectors and expansion joint plates.
C. Cleaning, patching and coating of damaged structural steel and decking.
1.2 RELATED REQUIREMENTS
A. Section 052100 - Steel Joist Framing.
B. Section 053100 - Steel Decking: Support framing for small openings in deck.
C. Section 055000 - Metal Fabrications: Steel fabrications affecting structural steel work.
1.3 REFERENCE STANDARDS
A. AISC (MAN) - Steel Construction Manual; 2017.
B. AISC 303 - Code of Standard Practice for Steel Buildings and Bridges; 2016.
C. AISC S348 - Specification for Structural Joints Using ASTM A325 or A490 Bolts; 2004.
D. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.
E. ASTM A108 - Standard Specification for Steel Bar, Carbon and Alloy, Cold-Finished; 2018.
F. ASTM A514/A514M - Standard Specification for High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding; 2018, with Editorial Revision (2019).
G. ASTM A992/A992M - Standard Specification for Structural Steel Shapes; 2020.
H. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2020.
I. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2022).
J. IAS AC172 - Accreditation Criteria for Fabricator Inspection Programs for Structural Steel AC172; 2019.
1.4 SUBMITTALS
A. See Section 013000 - Administrative Requirements, for submittal procedures.
B. Shop Drawings:
1. Indicate profiles, sizes, spacing, locations of structural members, openings, attachments, and fasteners.
2. Connections not detailed.
3. Indicate cambers and loads.
4. Indicate welded connections with AWS A2.4 welding symbols. Indicate net weld lengths.
C. Manufacturer's Mill Certificate: Certify that products meet or exceed specified requirements.
1.5 QUALITY ASSURANCE
A. Fabricate structural steel members in accordance with AISC (MAN) "Steel Construction Manual."
B. Structural steel members designated as architecturally-exposed structural steel (AESS) to also comply with Section 051213.
C. Fabricator: Company specializing in performing the work of this section with minimum 5 years of experience.
D. Fabricator Qualifications: A qualified steel fabricator that is accredited by the AISC
1. As an alternate the fabricator shall fabricate all steel under the review of a special inspector at the cost of the fabricator.
1.6 ERECTOR: COMPANY SPECIALIZING IN PERFORMING THE WORK OF THIS SECTION WITH MINIMUM 5 YEARS OF DOCUMENTED DOCUMENTED EXPERIENCE.

PART 2 PRODUCTS

2.1 MATERIALS
A. Steel Angles and Plates: ASTM A36/A36M.
B. Steel W Shapes and Tees: ASTM A992/A992M.
C. Rolled Steel Structural Shapes: ASTM A992/A992M.
D. Steel Plate: ASTM A514/A514M.
E. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.
F. Shop and Touch-Up Primer: Fabricator's standard, complying with VOC limitations of authorities having jurisdiction.
G. Touch-Up Primer for Galvanized Surfaces: Fabricator's standard, complying with VOC limitations of authorities having jurisdiction.
H. Rust Inhibitive Metal Primer (Painted Surfaces)
1. Uniflex Rust Inhibitive Metal Primer; Sherwin-Williams
2. SPEEDHIDE® Interior/Exterior Rust Inhibitive Steel Primer ; PPG
3. Substitutions: See Section016000-Product Requirements.
I. Rust Inhibitive Metal Primer (Galvanized Surfaces)
1. Zinc Rich Cold Galvanize Coating 90% Zinc minumum, Sherwin-Williams
2. ZRC® Cold Galvanizing Compound; ZRC Worldwide
3. Substitutions: See Section016000-Product Requirements.
2.2 FABRICATION
A. Shop fabricate to greatest extent possible.
B. Continuously seal joined members by continuous welds. Grind exposed welds smooth.
C. Fabricate connections for bolt, nut, and washer connectors.
D. Develop required camber for members.
2.3 FINISH
A. Shop prime structural steel members. Do not prime surfaces that will be fireproofed, field welded, in contact with concrete, or high strength bolted.

PART 3 EXECUTION

3.1 ERECTION
A. Erect structural steel in compliance with AISC 303.
B. Allow for erection loads and provide sufficient temporary bracing to maintain structure in safe condition, plumb, and in true alignment until completion of erection and installation of permanent bracing.
C. Field weld components and shear studs indicated on shop drawings.
D. Use carbon steel bolts only for temporary bracing during construction, unless otherwise specifically permitted on drawings. Install high-strength bolts in accordance with AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts". Bolts in connections not within the slip critical category nor subject to tension loads shall be installed in properly aligned holes and need only be tightened to the snug tight condition. The snug tight condition is defined as the tightness that existis when all plies in a joint are in firm contact. This may be attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench. Slip critical connections will be identified on the drawings.
E. Do not field cut or alter structural members without approval of Architect/Structural Engineer of Record .
F. After erection, prime welds, abrasions, and surfaces not shop primed, except surfaces to be in contact with concrete.
3.2 CLEANING AND PREPARATION OF DAMAGED STRUCTURAL STEEL AND DECK
A. Existing surfaces shall be cleaned of all scale utilizing wire brush.
B. Coat surfaces with primers and coating per material specified.
3.3 TOLERANCES
A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
B. Maximum Offset From True Alignment: 1/4 inch.
3.4 FIELD QUALITY CONTROL
A. An independent testing agency will perform field quality control tests, as specified in Section 014000 - Quality Requirements.

END OF SECTION

SECTION 053100
STEEL DECKING

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Roof deck.
B. Supplementary framing for openings up to and including 18 inches.
C. Bearing plates and angles.
1.2 RELATED REQUIREMENTS
A. Section 032000 - Concrete Reinforcing.
B. Section 033000 - Cast-in-Place Concrete: Concrete topping over metal deck.
C. Section 051200 - Structural Steel Framing: Support framing for openings larger than 18 inches and shear stud connectors.
D. Section 052100 - Steel Joist Framing: Support framing for openings larger than 18 inches and shear stud connectors.
1.3 REFERENCE STANDARDS
A. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.
B. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2022).
C. AWS D1.3/D1.3M - Structural Welding Code - Sheet Steel; 2018.
D. SDI (DM) - Publication No.30, Design Manual for Composite Decks, Form Decks, and Roof Decks; 2007.
E. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer; 2004.
F. SSPC-Paint 20 - Zinc-Rich Coating (Type I - Inorganic, and Type II - Organic); 2019.
G. SSPC-Paint 25 - Zinc Oxide, Alkyd, Linseed Oil Primer for Use Over Hand Cleaned Steel, Type I and Type II; Society for Protective Coatings; 1997 (Ed. 2004).
1.4 SUBMITTALS
A. See Section 013000 - Administrative Requirements, for submittals procedures.
B. Shop Drawings: Indicate deck plan, support locations, projections, openings, reinforcement, pertinent details, and accessories.
C. Submit manufacturer's installation instructions.
1.5 QUALITY ASSURANCE
A. Installer Qualifications: Company specializing in performing the work of this Section with minimum 5 years of experience.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Steel Deck:
1. Nucor-Vulcraft Group; ____: www.vulcraft.com/#sle.
2. Wheeling Corrugating Co: www.wheelingcorrugating.com.
3. Substitutions: See Section 016000 - Product Requirements.
2.2 STEEL DECK
A. 1 1/2" Roof Deck(1.5B): Non-composite type, steel sheet.
1. Galvanized Steel Sheet: ASTM A 653/A 653M, Structural Steel (SS) Grade 33/230, with G90/Z275 galvanized coating.
2. Structural Properties:
a. Span Design: Double.
3. Minimum Metal Thickness, Excluding Finish: 20 gage.
4. Nominal Height: 1-1/2 inch.
5. Profile: Fluted; SDI WR; 1.5B.
6. Formed Sheet Width: 36 inch.
7. Side Joints: Lapped, welded.
8. End Joints: Lapped, welded.
9. Fasten deck to steel support members at ends and intermediate supports with 36/4 pattern.
Where deck is continuously supported weld 12 inches on center.
a. Welding: Use fusion welds, 3/4" dia puddle welds.
10. Provide 1 - # 10 TEK screws minimum per side lap.
2.3 ACCESSORY MATERIALS
A. Bearing Plates and Angles: ASTM A36/A36M steelunfinished.
B. Welding Materials: AWS D1.1/D1.1M.
C. Fasteners: Galvanized hardened steel, self tapping.
D. Weld Washers: Mild steel, uncoated, 3/4 inch outside diameter, 1/8 inch thick.
E. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.
F. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, complying with VOC limitations of authorities having jurisdiction.
G. Acoustical Insulation: Glass fiber type, minimum 1.1 lb/cu ft density; profiled to suit deck.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify existing conditions prior to beginning work.
3.2 INSTALLATION
A. Erect metal deck in accordance with SDI Design Manual and manufacturer's instructions. Align and level.
B. On concrete and masonry surfaces provide minimum 4 inch bearing.
C. On steel supports provide minimum 1-1/2 inch bearing.
D. At cellular/plated deck level and align deck within 1/8 inch horizontally and vertically. Butt ends, allow for maximum 1/8 inch gap. Install sheet steel covers over gaps wider than 1/8 inch. Tape and seal joints watertight.
E. At mechanically fastened male/female side laps fasten at 24 inches on center maximum.
F. At welded male/female side laps weld at 18 inches on center maximum.
G. Weld deck in accordance with AWS D1.3/D1.3M.
H. At deck openings less than 6 inches in size, provide additional sheet of deck lapped 24" each side of hole and a minimum two flutes beyond each side of opening. Attach to base deck with #10 TEK screws at 12" o.c.
I. At deck openings from 6 inches to 18 inches in size, provide 2 by 2 by 1/4 inch steel angle reinforcement. Place angles perpendicular to flutes; extend minimum two flutes beyond each side of opening and fusion weld to deck at each flute.
J. Where deck changes direction, install 8 inch minimum wide by 1/4 inch thich sheet steel cover plates. Fusion weld 12 inches on center maximum.
K. At openings between deck and walls, columns, and openings, provide sheet steel closures and angle flashings to close openings.
L. Immediately after welding deck and other metal components in position, coat welds, burned areas, and damaged surface coating, with touch-up primer.

END OF SECTION

DIVISION 31 - EARTHWORK

SECTION 312316.16
STRUCTURAL EXCAVATION

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Excavating for building volume below grade, footings, pile caps, slabs-on-grade, paving, site structures, and utilities within the building.
1.2 RELATED REQUIREMENTS
A. Geotechnical report; bore hole locations and findings of subsurface materials.
B. Section 312323.16 - Structural Fill: Fill materials, filling, and compacting.
1.3 PROJECT CONDITIONS
A. Verify that survey bench mark and intended elevations for the Work are as indicated.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.1 PREPARATION
A. Identify required lines, levels, contours, and datum locations.
B. Locate, identify, and protect utilities that remain and protect from damage.
3.2 EXCAVATING
A. Excavate to accommodate new structures and construction operations.
B. Notify Architect/Structural Engineer of Record of unexpected subsurface conditions and discontinue affected Work in area until notified to resume work.
C. Slope banks of excavations deeper than 4 feet to angle of repose or less until shored.
D. Do not interfere with 45 degree bearing splay of foundations.
E. Cut utility trenches wide enough to allow inspection of installed utilities.
F. Hand trim excavations. Remove loose matter.
G. Correct areas that are over-excavated and load-bearing surfaces that are disturbed; see Section 312323.
H. Grade top perimeter of excavation to prevent surface water from draining into excavation.
I. Remove excavated material that is unsuitable for re-use from site.
J. Remove excess excavated material from site.
3.3 FIELD QUALITY CONTROL
A. See Section 014000 - Quality Requirements, for general requirements for field inspection and testing.
B. Provide for visual inspection of load-bearing excavated surfaces before placement of foundations.
3.4 PROTECTION
A. Prevent displacement of banks and keep loose soil from falling into excavation; maintain soil stability.
B. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing.

END OF SECTION

SECTION 312323.16
STRUCTURAL FILL

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Filling, backfilling, and compacting for building volume below grade.
1.2 RELATED REQUIREMENTS
A. Geotechnical report; bore hole locations and findings of subsurface materials.
B. Section 312316.16 - Structural Excavation: Removal and handling of soil to be re-used.
1.3 REFERENCE STANDARDS
A. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3)); 2012.
B. ASTM D2487 - Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System); 2011.
1.4 SUBMITTALS
A. See Section 013000 - Administrative Requirements, for submittal procedures.
B. Materials Sources: Submit name of imported materials source.
C. Fill Composition Test Reports: Results of laboratory tests on proposed and actual materials used.
D. Compaction Density Test Reports.
1.5 DELIVERY, STORAGE, AND HANDLING
A. When necessary, store materials on site in advance of need.

PART 2 PRODUCTS

2.1 FILL MATERIALS
A. General Fill: Subsoil excavated on-site.
1. Graded.
2. Free of lumps larger than {CH#10000698}, rocks larger than {CH#10000699}, and debris.
3. Conforming to ASTM D2487 Group Symbol .
4. Plasticity Index (PI) maximum 20 percent, with moisture content between minus two (-2) and plus three (+3) points of the optimum.
B. Structural Fill- Fill Type Item 247, Type "A", Grade 2: Conforming to State of Texas Highway Department standard.
C. Granular Fill- Fill Type 57 Rock: Coarse aggregate, conforming to State of Texas Highway Department standard.
2.2 SOURCE QUALITY CONTROL
A. See Section 014000 - Quality Requirements, for general requirements for testing and analysis of soil material.
B. Where fill materials are specified by reference to a specific standard, test and analyze samples for compliance before delivery to site.
C. If tests indicate materials do not meet specified requirements, change material and retest.

PART 3 EXECUTION

3.1 EXAMINATION
A. Identify required lines, levels, contours, and datum locations.
3.2 PREPARATION
A. In the area occupied by the foundation , plus a distance show on the drawings, remove topsoil including all organic materials, roots, etc. from the site per drawings. Do not use for underfloor fill. Remove additional material as necessary to provide minimum fill per drawings.
B. The resulting surface shall be proof rolled with a sufficiently heavy roller (15 TONS) to locate and densify weak and compressible zones. A minimum of 6 passes of the roller is required. Any soft sposts shall be removed and replaced with compacted structural fill.
C. The rolled subgrade shall be scarified just prior to fill placement to a minimum depth of 6" and recompacted to a mimimum of 95% of the maximum density as determined by ASTM D 698 compaction test, maintaining moisture content between -1 and +3 percentage points until covered.
3.3 FILLING
A. Granular Fill: Place and compact materials in equal continuous layers not exceeding 6 inches compacted depth.
B. Beginning at low end, build up to the bottom of the slab with structural fill. Refer to plan for minimum thicknesses. NO DIRT FILL SHALL BE USED UNDER THE BUILDING FOUNDATION. Submit written certification of compliance with requirements above by test preformed on field sample.
C. All fill shall be placed in 8" loose horizontal lifts and compacted to a minimum of 95% of the maximum density as detemined by ASTM D 698 compaction test.
3.4 FILL AT SPECIFIC LOCATIONS
A. Under Interior Slabs-On-Grade:
1. Use structural fill.
B. At Foundation Walls and Footings:
Use general fill.
1. Fill up to subgrade elevation.
2. Compact each lift to 90 percent of maximum dry density.
3. Do not backfill against unsupported foundation walls.
4. Backfill simultaneously on each side of unsupported foundation walls until supports are in place.
C. At Foundation Walls and Footings with concrete or paving above fill:
D.
1. Use Select Fill.
2. Fill up to subgrade elevation.
3. Compact each lift to 95 percent of maximum dry density.
4. Do not backfill against unsupported foundation walls.
5. Backfill simultaneously on each side of unsupported foundation walls until supports are in place.
E. Over Subdrainage Piping at Foundation Perimeter and Under Slabs:
1. Drainage fill and geotextile fabric: Section 334600.
2. Cover drainage fill with structural fill or flowable fill.
3. Fill up to subgrade elevation.
4. Compact to 95 percent of maximum dry density.
F. Over Buried Utility Piping, Conduits, and Duct Bank in Trenches :
1. Bedding: Use sand.
2. Cover with structural fill or flowable fill.
3. Fill up to subgrade elevation.
4. Compact in maximum 8 inch lifts to 95 percent of maximum dry density.
G. At {CH#10000883}:
1. Use {CH#10000884}.
2. Fill up to 8 inches below finish grade.
3. Compact to 95 percent of maximum dry density.
3.5 TOLERANCES
A. Top Surface of General Filling: Plus or minus 1 inch from required elevations.
3.6 FIELD QUALITY CONTROL
A. See Section 014000 - Quality Requirements, for general requirements for field inspection and testing.
3.7 CLEANING
A. Leave unused materials in a neat, compact stockpile.
B. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.
C. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water.

END OF SECTION

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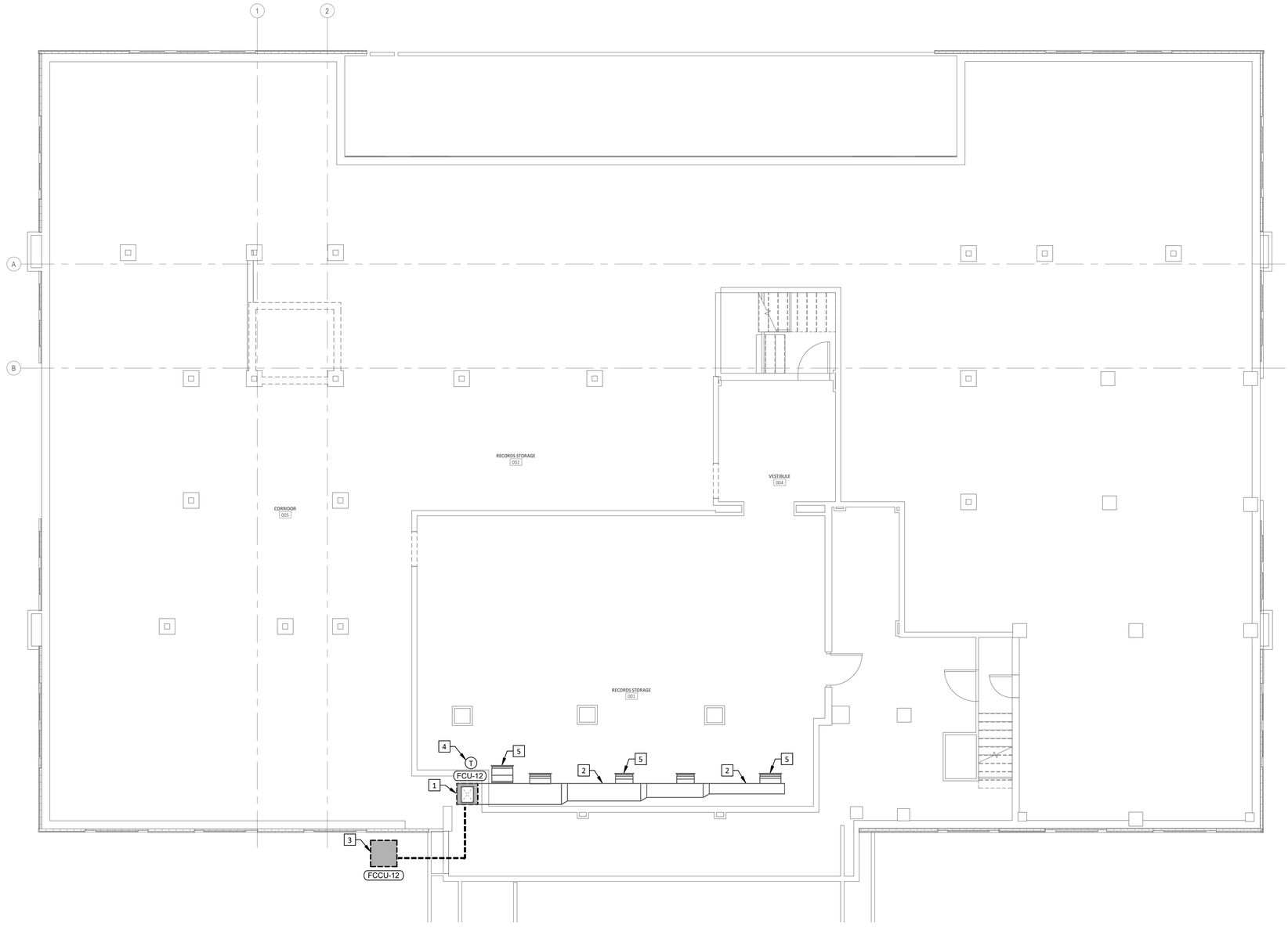
PROJECT: LIVE OAK CCH RESTORATION - PHASE II
SHEET TITLE: PROJECT SPECIFICATIONS
PROJECT NO: 2308 A1
△ REVISIONS DATE
SHEET NO: S-403

LA PROJECT NO.: 85-008-00
LA FILE NO.: LIVE OAK COUNTY COURTHOUSE STRUCTURAL R24



MECHANICAL DEMOLITION KEYED NOTES, SHEET MD-101:

1. DEMOLISH EXISTING FAN COIL UNIT, ALL ASSOCIATED DUCT CONNECTIONS, REFRIGERANT PIPING, THERMOSTAT, AND CONDENSATE TERMINATION. TERMINATE THE ELECTRICAL CONNECTION BACK TO THE NEAREST LOCAL DISCONNECT.
2. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. THE CONTRACTOR SHALL CLEAN THE INTERIOR OF THE EXISTING DUCTWORK PRIOR TO THE INSTALLATION OF THE NEW FAN COIL UNIT. EXTRA CARE SHALL BE TAKEN WHEN CLEANING ANY INTERIOR LINED DUCTWORK TO AVOID DAMAGE.
3. DEMOLISH EXISTING CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT LINES. THE CONTRACTOR SHALL PURGE AND CAPTURE REFRIGERANT FROM THE SYSTEM PRIOR TO DEMOLITION. TERMINATE THE ELECTRICAL CONNECTION BACK TO THE NEAREST LOCAL DISCONNECT.
4. REMOVE EXISTING THERMOSTAT IN PREPARATION FOR NEW WORK. PATCH AND REPAIR WALL TO MATCH SURROUNDING CONDITIONS.
5. PRIOR TO DEMOLITION, A BUILDING-WIDE TEST AND BALANCE SHALL BE CONDUCTED TO DOCUMENT EXISTING AIRFLOWS INTO CURRENT SPACES. THE NEW SYSTEM WILL BE BALANCED TO MATCH THESE RECORDED VALUES.

1 BASEMENT MECHANICAL PLAN - DEMOLITION
Mechanical 3/16" = 1'-0"

NORTH

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

0 2' 4' 8' 12'
SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

02-23-26
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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT MECHANICAL PLAN - DEMOLITION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: MD-101

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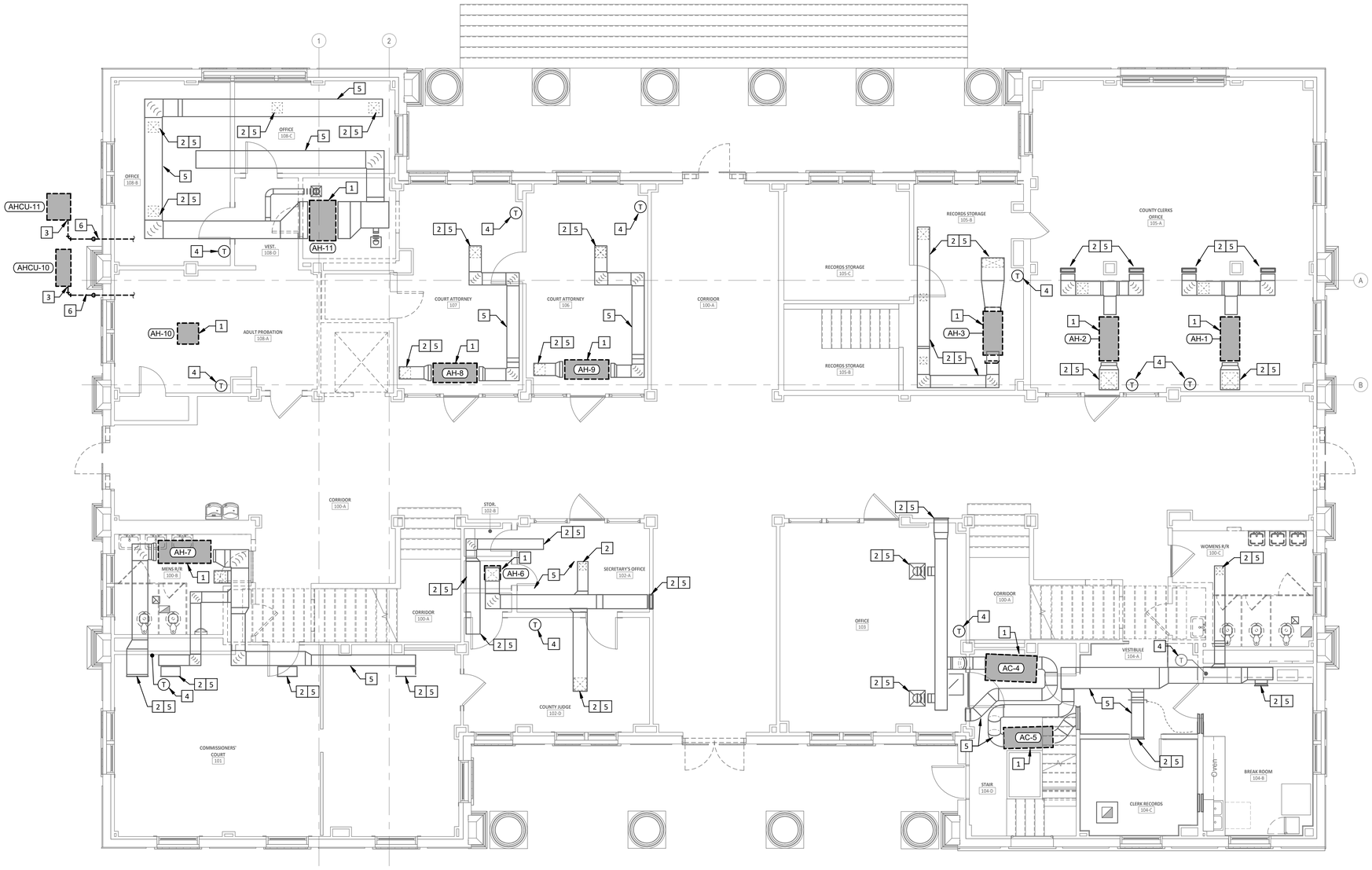

MECHANICAL DEMOLITION KEYED NOTES, SHEET MD-102:

1. DEMOLISH EXISTING FAN COIL UNIT, ALL ASSOCIATED DUCT CONNECTIONS, REFRIGERANT PIPING, THERMOSTAT, AND CONDENSATE TERMINATION. TERMINATE THE ELECTRICAL CONNECTION BACK TO THE NEAREST LOCAL DISCONNECT.
2. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. THE CONTRACTOR SHALL CLEAN THE INTERIOR OF THE EXISTING DUCTWORK PRIOR TO THE INSTALLATION OF THE NEW FAN COIL UNIT. EXTRA CARE SHALL BE TAKEN WHEN CLEANING ANY INTERIOR LINED DUCTWORK TO AVOID DAMAGE.
3. DEMOLISH EXISTING CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT LINES. THE CONTRACTOR SHALL PURGE AND CAPTURE REFRIGERANT FROM THE SYSTEM PRIOR TO DEMOLITION. TERMINATE THE ELECTRICAL CONNECTION BACK TO THE NEAREST LOCAL DISCONNECT.
4. REMOVE EXISTING THERMOSTAT IN PREPARATION FOR NEW WORK. PATCH AND REPAIR WALL TO MATCH SURROUNDING CONDITIONS.
5. PRIOR TO DEMOLITION, A BUILDING-WIDE TEST AND BALANCE SHALL BE CONDUCTED TO DOCUMENT EXISTING AIRFLOWS INTO CURRENT SPACES. THE NEW SYSTEM WILL BE BALANCED TO MATCH THESE RECORDED VALUES.
6. REFRIGERANT PIPING BUILDING PENETRATION SHOWN FOR REFERENCE. CONTRACTOR TO FIELD VERIFY PIPING PATH WITHIN BUILDING. REFER TO NEW WORK.

NORTH

1 FIRST FLOOR MECHANICAL PLAN - DEMOLITION

Mechanical 3/16" = 1'-0"

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

02-23-24
STATE OF TEXAS
JOHN P. DELGADO
151397
LICENSED
PROFESSIONAL ENGINEER

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR MECHANICAL PLAN - DEMOLITION

PROJECT NO: 2308 A1

REVISIONS DATE

SHEET NO: MD-102

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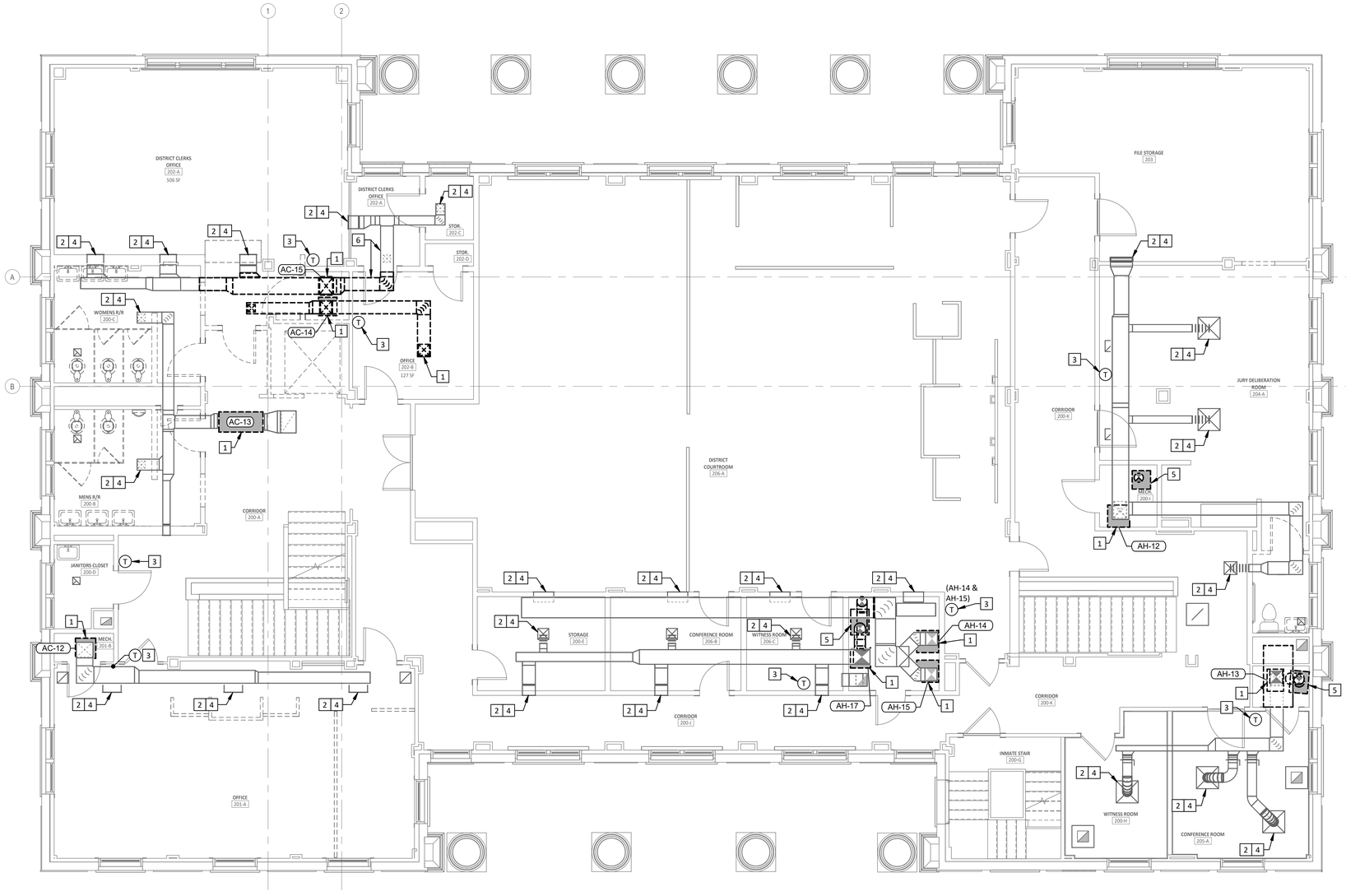

MECHANICAL DEMOLITION KEYED NOTES, SHEET MD-103:

1. DEMOLISH EXISTING FAN COIL UNIT, ALL ASSOCIATED DUCT CONNECTIONS, REFRIGERANT PIPING, THERMOSTAT, AND CONDENSATE TERMINATION. TERMINATE THE ELECTRICAL CONNECTION BACK TO THE NEAREST LOCAL DISCONNECT.
2. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. THE CONTRACTOR SHALL CLEAN THE INTERIOR OF THE EXISTING DUCTWORK PRIOR TO THE INSTALLATION OF THE NEW FAN COIL UNIT.
3. REMOVE EXISTING THERMOSTAT IN PREPARATION FOR NEW WORK. PATCH AND REPAIR WALL TO MATCH SURROUNDING CONDITIONS.
4. PRIOR TO DEMOLITION, A BUILDING-WIDE TEST AND BALANCE SHALL BE CONDUCTED TO DOCUMENT EXISTING AIRFLOWS INTO CURRENT SPACES. THE NEW SYSTEM WILL BE BALANCED TO MATCH THESE RECORDED VALUES.
5. DEMOLISH EXISTING DEHUMIDIFIER, ALL ASSOCIATED DUCT CONNECTIONS, WIRING, AND CONDENSATE CONNECTIONS.
6. DEMOLISH DUCTWORK AND ALL ASSOCIATED SUPPORTS AS INDICATED. CAP DUCT, RESTORE VAPOR BARRIER AND INSTALL NEW INSULATION TO MATCH SURROUNDING.

NORTH

1 SECOND FLOOR MECHANICAL PLAN - DEMOLITION

Mechanical — 3/16" = 1'-0"

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR MECHANICAL PLAN - DEMOLITION

PROJECT NO: 2308 A1

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SHEET NO: MD-103

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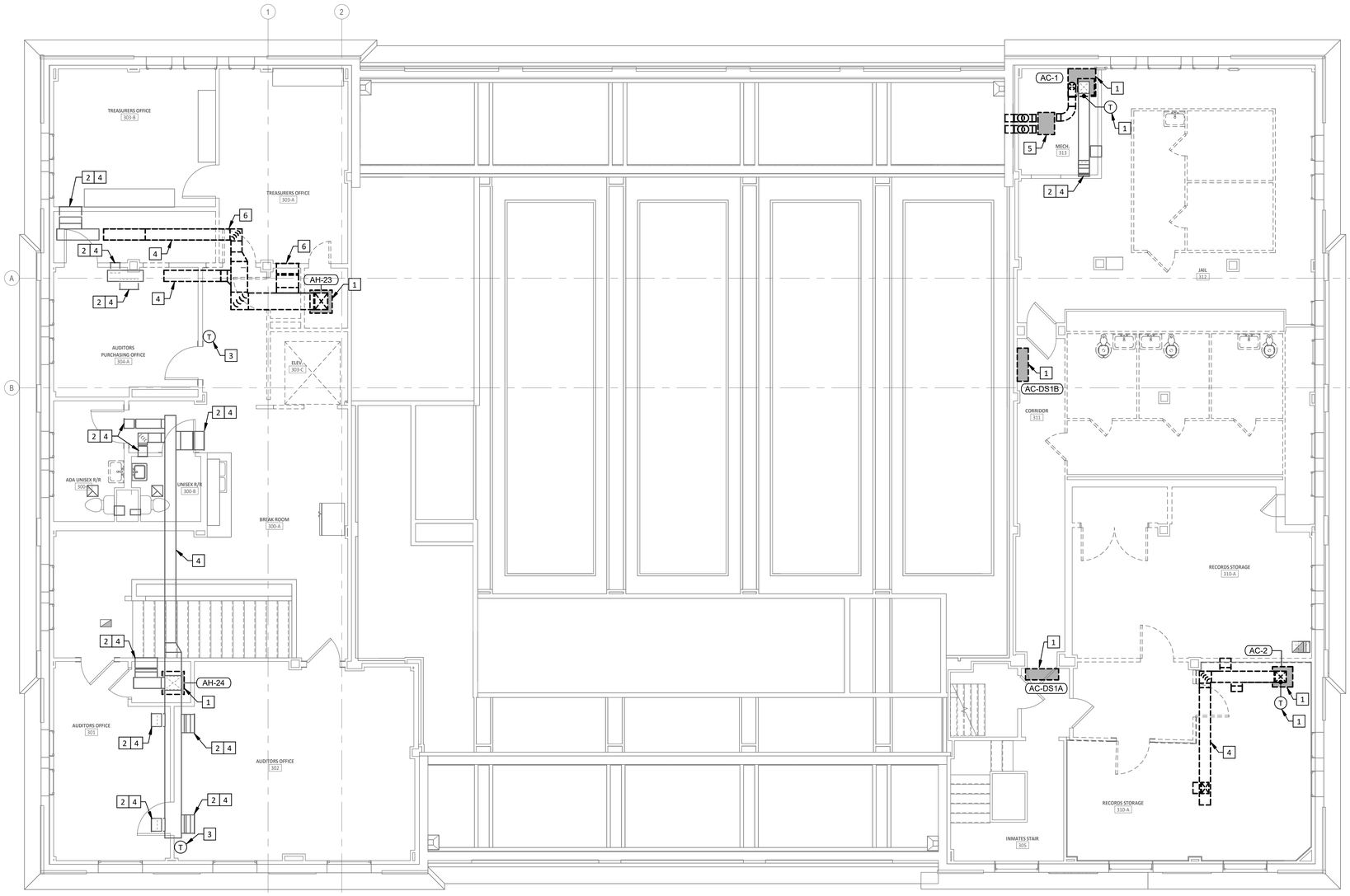

THIRD FLOOR MECHANICAL PLAN - DEMOLITION

1 Mechanical — 3/16" = 1'-0"

NORTH

MECHANICAL DEMOLITION KEYED NOTES, SHEET MD-104:

1. DEMOLISH EXISTING FAN COIL UNIT, ALL ASSOCIATED DUCT CONNECTIONS, REFRIGERANT PIPING, THERMOSTAT, AND CONDENSATE TERMINATION. TERMINATE THE ELECTRICAL CONNECTION BACK TO THE NEAREST LOCAL DISCONNECT.
2. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. THE CONTRACTOR SHALL CLEAN THE INTERIOR OF THE EXISTING DUCTWORK PRIOR TO THE INSTALLATION OF THE NEW FAN COIL UNIT. EXTRA CARE SHALL BE TAKEN WHEN CLEANING ANY INTERIOR LINED DUCTWORK TO AVOID DAMAGE.
3. REMOVE EXISTING THERMOSTAT IN PREPARATION FOR NEW WORK. PATCH AND REPAIR WALL TO MATCH SURROUNDING CONDITIONS.
4. PRIOR TO DEMOLITION, A BUILDING-WIDE TEST AND BALANCE SHALL BE CONDUCTED TO DOCUMENT EXISTING AIRFLOWS INTO CURRENT SPACES. THE NEW SYSTEM WILL BE BALANCED TO MATCH THESE RECORDED VALUES.
5. DEMOLISH EXISTING ENERGY RECOVERY CORE AND ALL ASSOCIATED DUCTWORK, CONTROLS, ELECTRICAL, WIRING, AND CONDENSATE PIPING. REPAIR WINDOW TRIM TO MATCH SURROUNDING CONDITIONS.
6. REMOVE INDICATED DUCTWORK, AIR DEVICES ALONG WITH THEIR ASSOCIATED HANGERS AND SUPPORTS. PATCH AND REPAIR ALL WALL PENETRATIONS TO MATCH SURROUNDING CONDITIONS. COORDINATE WALL REPAIRS WITH NEW DRAWINGS TO ENSURE ALL EXISTING AND UPDATED FIRE-RATED WALL ASSEMBLIES ARE MAINTAINED.

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR MECHANICAL PLAN - DEMOLITION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: MD-104

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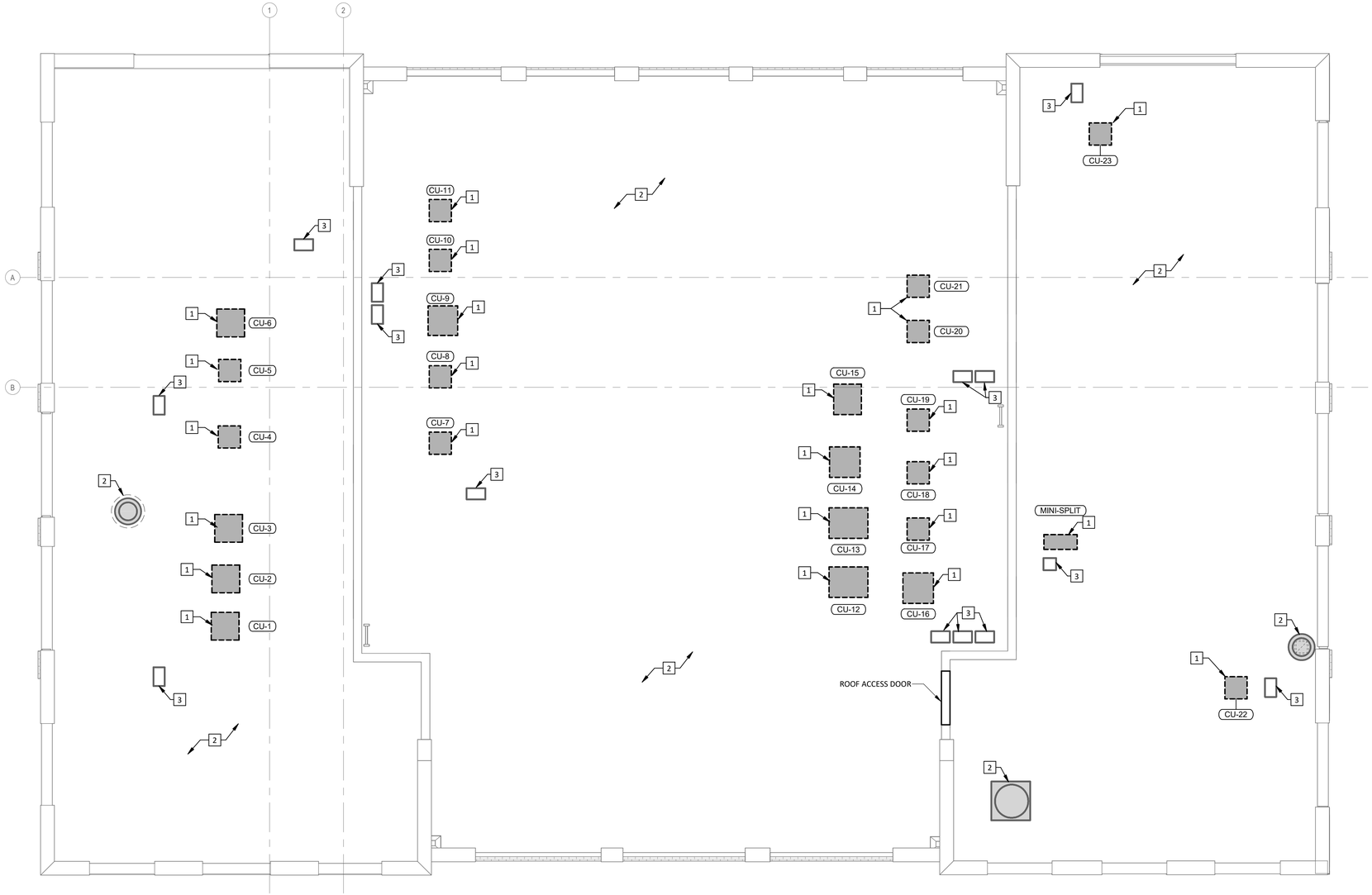

MECHANICAL DEMOLITION KEYED NOTES, SHEET MD-105:

1. DEMOLISH EXISTING CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT LINES. THE CONTRACTOR SHALL PURGE AND CAPTURE REFRIGERANT FROM THE SYSTEM PRIOR TO DEMOLITION. TERMINATE THE ELECTRICAL CONNECTION BACK TO THE NEAREST LOCAL DISCONNECT. EXISTING EQUIPMENT SUPPORTS SHALL REMAIN FOR INSTALLATION OF NEW UNITS.
2. FACILITIES NOT SHOWN, OR NOT SHOWN TO BE REMOVED SHALL REMAIN IN SERVICE.
3. EXISTING REFRIGERANT PIPING ROOF VAULT SHOWN FOR REFERENCE ONLY.

NORTH

1 ROOF MECHANICAL PLAN - DEMOLITION

Mechanical 3/16" = 1'-0"

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ROOF MECHANICAL PLAN - DEMOLITION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: MD-105

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MECHANICAL NOTES & ABBREVIATIONS

[SOME ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT]

GENERAL DEMOLITION NOTES: (APPLICABLE TO ALL SHEETS):

1. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO EXAMINE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS, AND TO VERIFY EXACT LOCATIONS, SIZES AND QUANTITIES OF ITEMS WHICH ARE TO BE REMOVED OR ADDED. SUBMITTAL OF A BID SHALL SIGNIFY WILLINGNESS TO COMPLY WITH THE OWNER'S REQUIREMENTS; THE DESIGN AND SPECIFICATIONS; AND ACCEPTANCE OF ON-SITE CONDITIONS AS THEY EXIST.
2. THE CONTRACTOR SHALL PROVIDE TEMPORARY OR NEW SERVICES TO EXISTING FACILITIES AS REQUIRED TO MAINTAIN THEIR PROPER OPERATION WHEN NORMAL SERVICES ARE DISRUPTED AS A RESULT OF THE WORK BEING ACCOMPLISHED UNDER THIS PROJECT.
3. WHERE EXISTING CONSTRUCTION IS REMOVED TO PROVIDE WORKING AND EXTENSION ACCESS TO EXISTING UTILITIES, THE CONTRACTOR SHALL REMOVE DOORS, PIPING, CONDUIT, OUTLET BOXES, WIRING LIGHT FIXTURES, AIR CONDITIONING DUCTWORK, AND EQUIPMENT, ETC. TO PROVIDE ACCESS AND SHALL REINSTALL SAME UPON COMPLETION OF WORK.
4. THE CONTRACTOR SHALL MODIFY, REMOVE, AND RELOCATE ALL MATERIALS AND ITEMS SO INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW FACILITIES. ALL REMOVALS TO BE RELOCATED SHALL BE CONDUCTED IN A MANNER AS TO NOT DAMAGE. MATERIALS AND ITEMS SCHEDULED FOR RELOCATION AND WHICH ARE DAMAGED DURING DISMANTLING OR REASSEMBLY OPERATIONS SHALL BE REPAIRED AND RESTORED TO THE ACCEPTANCE OF THE OWNER. THE CONTRACTOR MAY SUBSTITUTE NEW MATERIALS AND ITEMS OF LIKE DESIGN AND QUALITY IN LIEU OF MATERIALS AND ITEMS TO BE RELOCATED, IF ACCEPTABLE TO THE OWNER.
5. ALL ITEMS WHICH ARE TO BE RELOCATED SHALL BE CAREFULLY REMOVED IN REVERSE ORDER TO ORIGINAL ASSEMBLY OR PLACEMENT AND PROTECTED UNTIL RELOCATED. THE CONTRACTOR SHALL CLEAN, REPAIR AND PROVIDE ALL NEW MATERIALS, FITTINGS, AND APPURTENANCES REQUIRED TO COMPLETE THE RELOCATION AND TO RESTORE THE ITEMS TO GOOD OPERATIVE ORDER.
6. FEEDERS AND WIRING TO ITEMS TO BE REMOVED, SALVAGED, OR RELOCATED SHALL BE REMOVED TO POINTS INDICATED ON THE DRAWINGS, SPECIFIED, OR ACCEPTABLE TO THE OWNER. FEEDERS AND WIRING NOT SCHEDULED FOR REUSE SHALL BE REMOVED TO THE POINTS AT WHICH REUSE IS TO BE CONTINUED OR SERVICE IS TO REMAIN. SUCH SERVICES SHALL BE SEALED, CAPPED, OR OTHERWISE TIED OFF OR CONNECTED INTO THE EXISTING FACILITIES IN SUCH A MANNER AS TO RESULT IN MINIMUM INTERRUPTION OF SERVICES TO ADJACENT OCCUPIED AREAS. SERVICES TO EXISTING AREAS OR FACILITIES WHICH MUST REMAIN IN OPERATION DURING THE CONSTRUCTION PERIOD SHALL NOT BE INTERRUPTED WITHOUT PRIOR SPECIFIC WRITTEN APPROVAL OF THE OWNER.
7. SOME ITEMS AND MATERIALS BEING REMOVED MAY REMAIN THE PROPERTY OF THE OWNER AND AS PART OF THIS CONTRACT, THE CONTRACTOR SHALL DELIVER ITEMS THE OWNER WISHES TO KEEP TO A DESTINATION ON THE CAMPUS AS DIRECTED BY THE OWNER. ALL OTHER ITEMS NOT REQUESTED BY THE OWNER SHALL BE DISPOSED OF WITH PRIOR VERIFICATION OF THE OWNER.
8. WHERE EXTENSION OF AN EXISTING CIRCUIT IS REQUIRED, CONDUIT SHALL BE ROUTED CONCEALED SO AS NOT TO INTERFERE WITH THE USE, OR MAR THE ESTHETICS OF THE AREA.
9. PROVIDE NEW PANELBOARD DIRECTORIES FOR ALL EXISTING PANELBOARDS AFFECTED BY THIS WORK, WHETHER INDICATED ON THE DRAWINGS OR NOT, NEW DIRECTORIES SHALL REFLECT ALL THE NEW CIRCUITRY AND ROOM NAMES AND NUMBERS PER THIS PROJECT.
10. WHERE CONDUCTORS ARE INDICATED TO BE REMOVED, WIRING SHALL BE REMOVED BACK TO NEXT OUTLET REMAINING IN SERVICE.
11. VERIFY ALL EXISTING PIPE SIZES BEFORE REMOVAL AND PROVIDE REPLACEMENT PIPE SAME SIZE AS PIPE REMOVED.
12. ALL FACILITIES ARE NOT SHOWN FOR CLARITY. FACILITIES NOT SHOWN SHALL REMAIN IN SERVICE.
13. EXISTING EQUIPMENT LOCATIONS ARE TAKEN FROM BEST AVAILABLE INFORMATION AND ARE NOT INTENDED TO SHOW EXACT EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY ALL PIPING AND EQUIPMENT BEFORE BEGINNING CONSTRUCTION.
14. ALL CIRCUIT BREAKERS SHALL BE PROVIDED AT AN AIC RATING THAT MEETS OR EXCEEDS THE EXISTING AND/OR NEW EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL FIELD VERIFY EQUIPMENT AS REQUIRED.
15. CONTRACTOR SHALL PROVIDE PROPERLY SIZED CIRCUIT BREAKERS FOR DESIGNATED PANELS WITH AVAILABLE SPACES FOR NEW FEEDS AS INDICATED.
16. CONTRACTOR SHALL RELOCATE AND/OR REROUTE ELECTRICAL CONDUITS, J-BOXES, ETC. AS REQUIRED IN ORDER TO INSTALL NEW EQUIPMENT.

HVAC/SHEET METAL NOTES:

1. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.
2. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS AND HUMIDISTATS 4'-0" (CENTERLINE) ABOVE THE FINISHED FLOOR. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE PRE-CEDING LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
3. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS.
4. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
5. LOCATE ALL MECHANICAL EQUIPMENT (VAV BOXES, ROOFTOP UNITS, ETC.) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.
6. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
7. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
8. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
9. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
10. SEE SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, HANGERS, AND OTHER REQUIREMENTS.

GENERAL MECHANICAL NOTES:

1. MOUNT TEMPERATURE SENSORS AT ADA COMPLIANT HEIGHT.
2. WHERE AIR DEVICES ARE TO BE INSTALLED IN HARD TYPE CEILINGS, PROVIDE AIR DEVICES WITH ROTOTWIST "RT" SERIES DAMPERS FOR AIR BALANCING.
3. PROVIDE VOLUME DAMPER AT MAIN TO EACH AIR DEVICE EXCEPT AT BRANCHES SERVING HEPA AIR DEVICES.
4. COORDINATE LOCATION OF AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
5. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE AND NATIONAL CODES FOR A COMPLETE INSTALLATION, TO INCLUDE MATERIALS, EQUIPMENT AND INSTALLATION.
6. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILING.
7. FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
8. ACCESS PANELS IN SOLID SURFACE CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC., AND SHALL BE FURNISHED AND INSTALLED UNDER ARCHITECTURAL SPECIFICATIONS.
9. CEILING DIFFUSER SIZES SHOWN ON SCHEDULES ARE NECK SIZES.
10. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
11. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
12. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
13. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
14. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
15. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
16. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
17. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
18. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE.
19. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
20. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
21. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
22. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.
23. ALL DUCTWORK, PIPING, AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C--CLAMPS SHALL NOT BE PERMITTED.
24. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM A METAL DECK.
25. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
26. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.

ABBREVIATION KEY

NOT ALL ABBREVATIONS MAY APPLY

ABBREVIATION	DESCRIPTION
ABV	ABOVE
AC	ABOVE CEILING
A/C	AIR CONDITIONED
ACC	AIR COOLED CHILLER
AD	ACCESS DOOR
AF	AIR FOIL / ABOVE (ABV) FLOOR
A.F.F.	ABOVE FINISHED FLOOR
A.F.M.S.	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AMCA	AIR MOVING AND CONDITIONING ASSOCIATION, INC.
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ARI	AIR CONDITIONING & REFRIGERATION INSTITUTE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AV	AUTOMATIC AIR VENT ASSEMBLY
B	BOILER
BDD	BACK DRAFT DAMPER
BF	BELOW FLOOR
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
B.O.A.D	BOTTOM OF AIR DEVICE
B.O.B	BOTTOM OF BEAM
B.O.D	BOTTOM OF DUCT
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
CD	CONSENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHP	CHILLED WATER PUMP
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CLG	CEILING
CWP	CONDENSER WATER PUMP
CO	CLEANOUT
C.O.P.	CENTER OF PIPE
CONN	CONNECTION
CONT	CONTINUATION
CP	CONTROLLABLE PITCH
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	COLD WATER
CL	CENTER LINE
D	DRAIN
DB	DRY BULB
DCP	DATA COLLECTION PANEL
DG	DOOR GRILLE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATION
EG	EXHAUST GRILLE
ENT	ENTERING
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING

ABBREVIATION KEY

NOT ALL ABBREVATIONS MAY APPLY

ABBREVIATION	DESCRIPTION
F	DEGREES FAHRENHEIT
FAS	FIRE ALARM SYSTEM
FPB	FAN-POWERED BOX
FCU	FAN & COIL UNIT
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FM	FACTORY MUTUAL
FO	FLAT OVAL DUCT
FPM	FEET PER MINUTE
FT	FEET, FOOT
FS	FLOW SWITCH
FSD	FIRE SMOKE DAMPER
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
H	HIGH, HEIGHT
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HWP	HOT WATER PUMP
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION (FLOW LINE)
IN	INCHES
INSUL	INSULATION
IN WG	INCHES OF WATER
KW	KILOWATT(S)
L	LONG, LENGTH
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LPS	LOW PRESSURE STEAM
LVR	LOUVER
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
MAX	MAXIMUM
MD	MANUAL DAMPER
MECH	MECHANICAL
MIN	MINIMUM
MS	MOTOR STARTER
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAH	OUTSIDE AIR INTAKE HOOD
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OH	OVERHEAD
PBD	PARALLEL BLADE DAMPER
PCHP	PRIMARY CHILLED WATER PUMP
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH (GAUGE)
PHL	PRESSURE HIGH LIMIT
R-XX	REFRIGERANT (TYPE AS NOTED)
RA	RETURN AIR
RE: 4/M7.01	REFER TO DETAIL 4, SHEET M7.01
RF	RETURN FAN
RG	RETURN GRILLE

ABBREVIATION KEY

NOT ALL ABBREVATIONS MAY APPLY

ABBREVIATION	DESCRIPTION
RH	RELATIVE HUMIDITY
RHD	RELIEF HOOD
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR / SOUND ATTENUATOR
SCH	SCHEDULE
SCHP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SEC	SECOND
SF	SUPPLY FAN
SG	STEAM GENERATOR
SH	STEAM MANIFOLD
SMACNA	SHEET METAL AND A/C CONTRACTORS' NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SF	SQUARE FOOT
STD	STANDARD
SWHX	STEAM TO WATER HEAT EXCHANGER
SW	SWITCH
TEMP	TEMPERATURE
THL	TEMPERATURE HIGH LIMIT
TLL	TEMPERATURE LOW LIMIT
T.O.D.	TOP OF DUCT
T'STAT	THERMOSTAT
TXV	THERMOSTATIC EXPANSION VALVE
TYP	TYPICAL
UF	UNDER FLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
V	VENT OR VALVE
V-XX	CONTROL VALVE NUMBER
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX
VF	VENTILATION FAN
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VOLT	VOLTAGE
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
WB	WET BULB

DRAWING SYMBOLS

- (AC-XX) — EQUIPMENT TAG/MARK
- (XX) — NEW WORK KEYED NOTES
- [XX] — DEMOLITION KEYED NOTES
- (XX) — DETAIL KEYED NOTES
- 1 / M-2 — SECTION ARROW - SECTION 1, SHEET M-2
- POINT OF CONNECTION/TERMINATION
- (T) — THERMOSTAT
- (H) — HUMIDISTAT
- (S) — SPACE SENSOR

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PROJECT NO.: 2023.044

02-23-24
STATE OF TEXAS
JOHN P. DELGADO
151397
LICENSED
PROFESSIONAL ENGINEER

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: MECHANICAL NOTES AND ABBREVIATIONS

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: M-100

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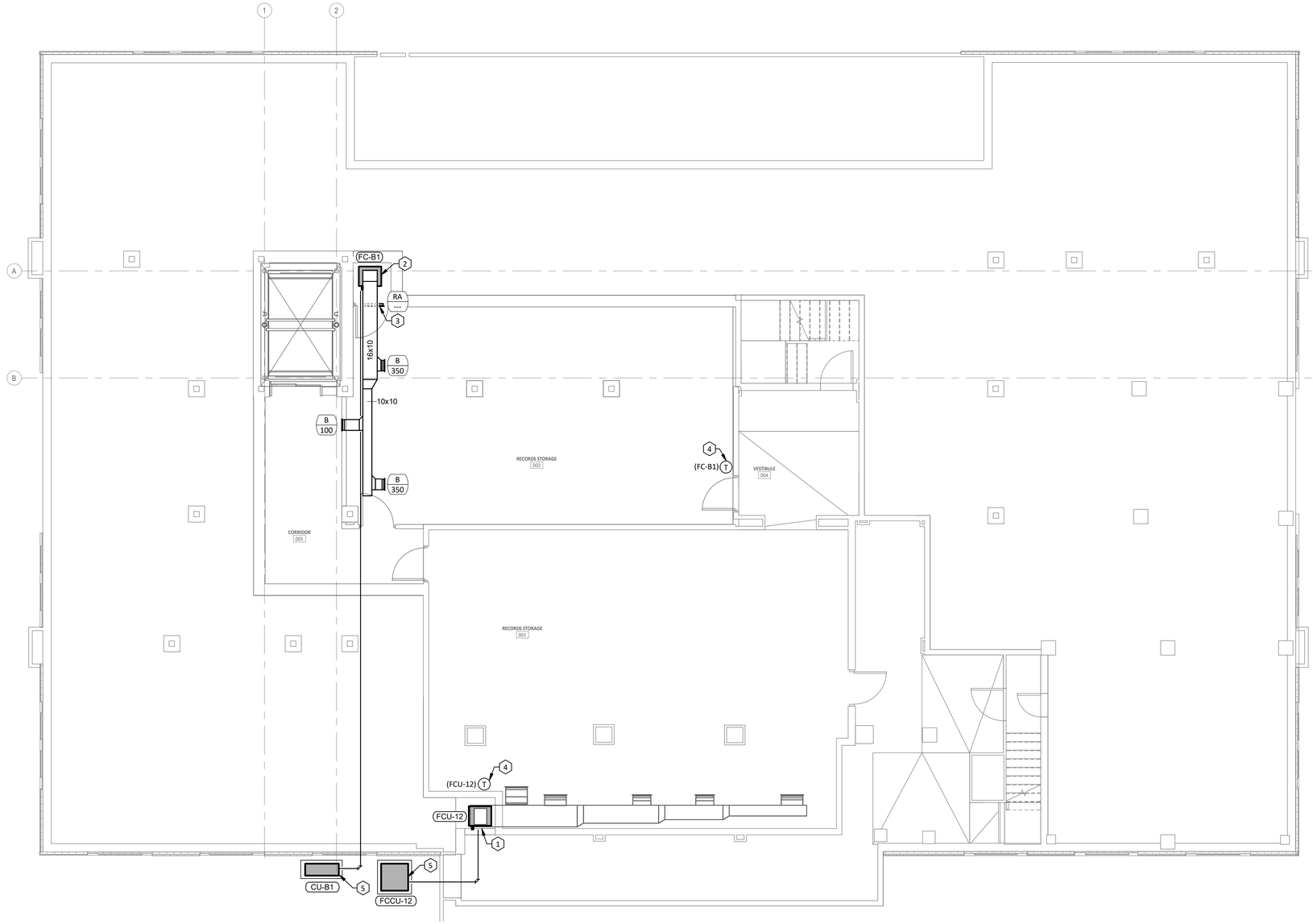

MECHANICAL NEW WORK KEYED NOTES, SHEET M-101:

1. FURNISH AND INSTALL NEW FAN COIL UNIT, THERMOSTAT, AND REFRIGERANT PIPING ACCORDING TO THE MANUFACTURER'S INSTALLATION GUIDELINES. NEW REFRIGERANT PIPING SHALL BE ROUTED TO FOLLOW THE EXISTING PATH. RECONNECT TO EXISTING ELECTRICAL DISCONNECT, AND CONDENSATE LINE. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCT TRANSITIONS TO PROPERLY RECONNECT TO THE EXISTING SUPPLY AND RETURN DUCTWORK.
2. PROVIDE NEW FAN COIL UNIT IN MECHANICAL CLOSET. PROVIDE METAL PLATFORM FOR FAN COILS, 24 INCHES IN HEIGHT. ROUTE DUCTWORK THROUGH FUR DOWN. PROVIDE A NEW CONDENSATE PUMP, EQUAL TO 'LITTLE GIANT' MODEL 554405 VCMA-15 WITH 'LITTLE GIANT' CV-10 CHECK VALVE.
3. COORDINATE RETURN AIR DOOR LOUVER MOUNTING HEIGHT, COLOR, AND FINISH WITH ARCHITECT.
4. FURNISH NEW THERMOSTAT AND INSTALL AT 48" AFF.
5. FURNISH AND INSTALL NEW CONDENSING UNIT ON NEW HOUSEKEEPING PAD. ALL EXTERNAL REFRIGERANT PIPING IS TO BE PROTECTED BY ALUMINUM JACKETING. ALL ENVELOPE PENETRATIONS SHALL BE SEALED AIR AND WATER TIGHT. MATCH FIRE RATING OF SURROUNDING WALL.

TESTING AND BALANCING:

REFER TO THE DEMOLITION SHEETS FOR TESTING AND BALANCING REQUIREMENTS BEFORE DEMOLITION OF THE EXISTING HVAC EQUIPMENT.

THE RESULTS OF THIS T&B AUDIT SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THEIR REVIEW.

AFTER EACH FAN COIL SYSTEM HAS THE AIRFLOW DOCUMENTED, THIS DATA SHALL BE USED TO REBALANCE THE NEW HVAC UNITS.

THE T&B CONTRACTOR WILL PRODUCE A REPORT THAT SHOWS THE FINAL AIRFLOW RATES OF EACH AIR DEVICE AND AT EACH HVAC UNIT FOR THE OWNER'S RECORDS.

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

1 BASEMENT MECHANICAL PLAN - NEW WORK

Mechanical — 3/16" = 1'-0"

NORTH

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT MECHANICAL PLAN - NEW WORK

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: M-101

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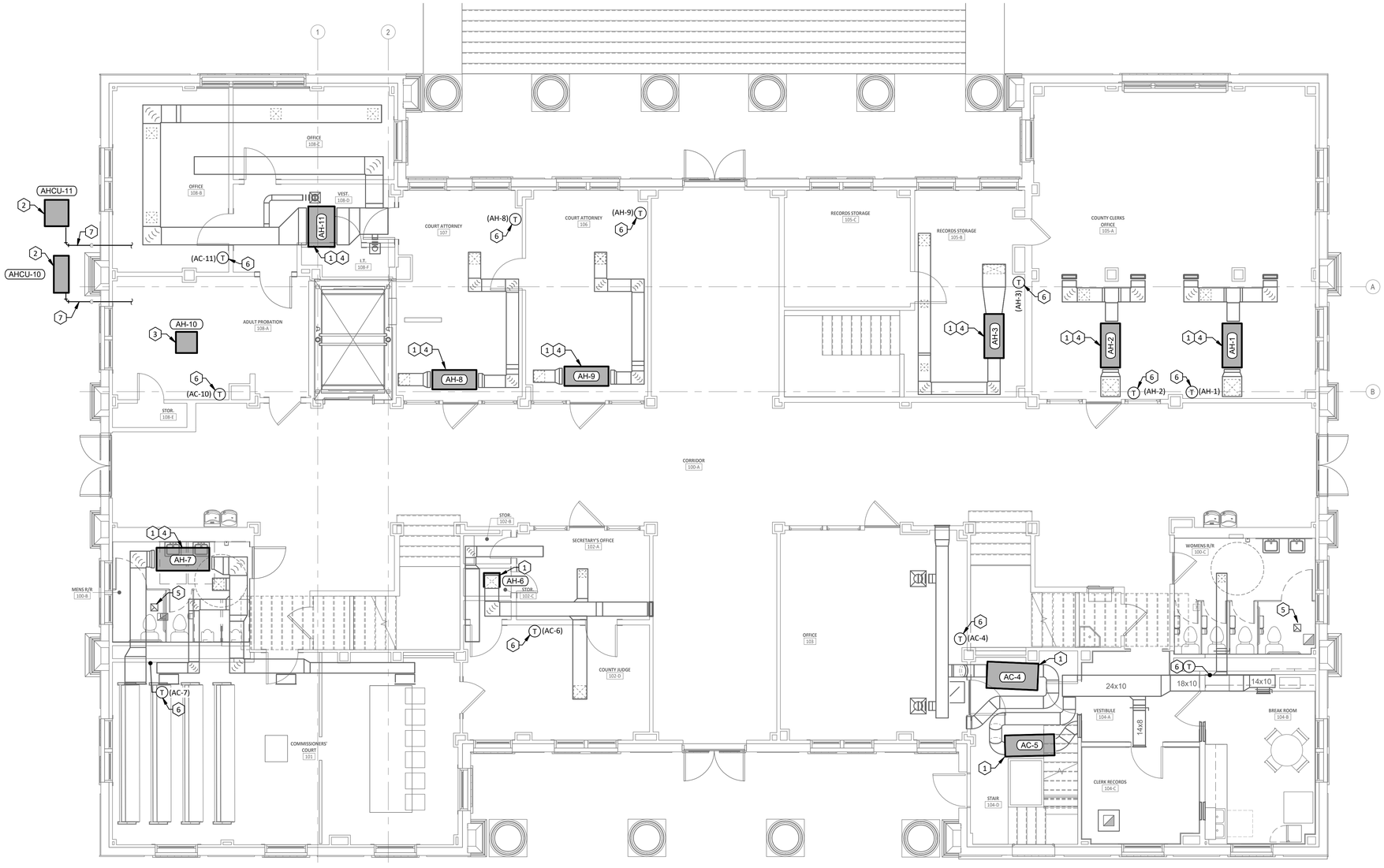

MECHANICAL NEW WORK KEYED NOTES, SHEET M-102:

1. FURNISH AND INSTALL NEW FAN COIL UNIT, THERMOSTAT, AND REFRIGERANT PIPING ACCORDING TO THE MANUFACTURER'S INSTALLATION GUIDELINES. NEW REFRIGERANT PIPING SHALL BE ROUTED TO FOLLOW THE EXISTING PATH. RECONNECT TO EXISTING ELECTRICAL DISCONNECT, AND CONDENSATE LINE. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCT TRANSITIONS TO PROPERLY RECONNECT TO THE EXISTING SUPPLY AND RETURN DUCTWORK.
2. FURNISH AND INSTALL NEW CONDENSING UNIT ON NEW HOUSEKEEPING PAD. ALL EXTERNAL REFRIGERANT PIPING IS TO BE PROTECTED BY ALUMINUM JACKETING. ALL ENVELOPE PENETRATIONS SHALL BE SEALED AIR AND WATER TIGHT. MATCH FIRE RATING OF SURROUNDING WALL.
3. FURNISH AND INSTALL NEW 2'X2' 4-WAY CEILING CASSETTE MINI-SPLIT AIR HANDLING UNIT. RECONNECT TO EXISTING CONDENSATE PIPING IN THIS VICINITY.
4. FAN-COIL WAS INACCESSIBLE DURING TIME OF SURVEY. PRIOR TO SUBMITTALS AND ORDERING, THE CONTRACTOR SHALL FIELD VERIFY UNIT CAPACITY. SCHEDULED CAPACITY IS ASSUMED BASED ON EXISTING 1988 DOCUMENTATION.
5. PROVIDE NEW AIR DEVICE. RECONNECT TO EXISTING DUCTWORK. CONTRACTOR SHALL FIELD VERIFY DUCT CONNECTION PRIOR TO ORDERING.
6. FURNISH NEW THERMOSTAT AND INSTALL AT 48" AFF.
7. ROUTE NEW REFRIGERANT PIPING THROUGH EXISTING BUILDING PENETRATION CONTRACTOR TO FOLLOW SAME PATH AS EXISTING PIPING. SEAL PENETRATIONS AIR AND WATERTIGHT MATCHING EXISTING FIRE RATING. COORDINATE COLOR AND FINISH OF NEW PIPE SHROUD WITH ARCHITECT PRIOR TO ORDERING.

TESTING AND BALANCING:

REFER TO THE DEMOLITION SHEETS FOR TESTING AND BALANCING REQUIREMENTS BEFORE DEMOLITION OF THE EXISTING HVAC EQUIPMENT.

THE RESULTS OF THIS T&B AUDIT SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THEIR REVIEW.

AFTER EACH FAN COIL SYSTEM HAS THE AIRFLOW DOCUMENTED, THIS DATA SHALL BE USED TO REBALANCE THE NEW HVAC UNITS.

THE T&B CONTRACTOR WILL PRODUCE A REPORT THAT SHOWS THE FINAL AIRFLOW RATES OF EACH AIR DEVICE AND AT EACH HVAC UNIT FOR THE OWNER'S RECORDS.

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

NORTH

1 FIRST FLOOR MECHANICAL PLAN - NEW WORK

Mechanical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR MECHANICAL PLAN - NEW WORK

PROJECT NO: 2308 A1

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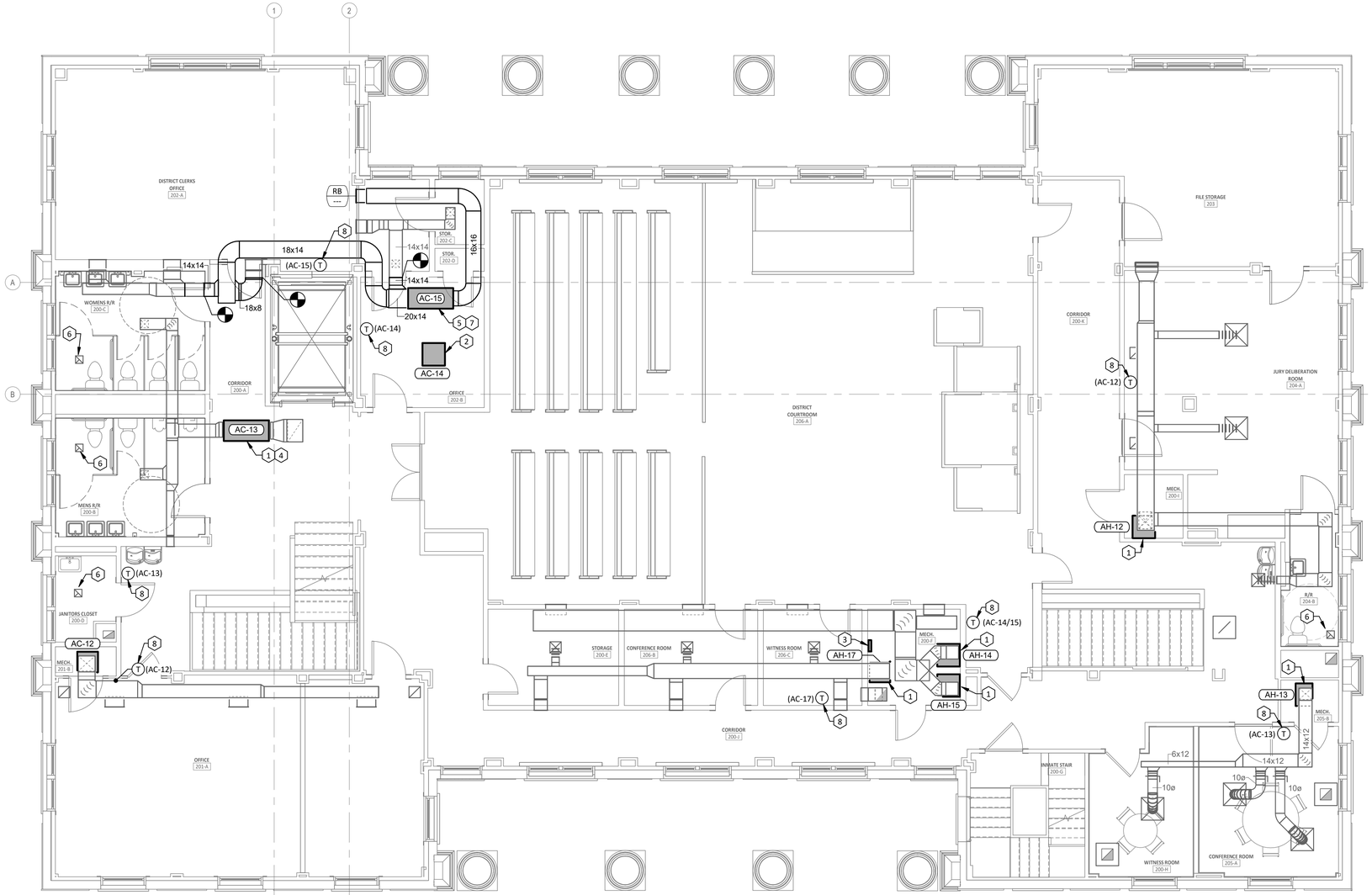

1 SECOND FLOOR MECHANICAL PLAN - NEW WORK

Mechanical 3/16" = 1'-0"

NORTH

MECHANICAL NEW WORK KEYED NOTES, SHEET M-103:

1. FURNISH AND INSTALL NEW FAN COIL UNIT, THERMOSTAT, AND REFRIGERANT PIPING ACCORDING TO THE MANUFACTURER'S INSTALLATION GUIDELINES. NEW REFRIGERANT PIPING SHALL BE ROUTED TO FOLLOW THE EXISTING PATH. RECONNECT TO EXISTING ELECTRICAL DISCONNECT, AND CONDENSATE LINE. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCT TRANSITIONS TO PROPERLY RECONNECT TO THE EXISTING SUPPLY AND RETURN DUCTWORK.
2. FURNISH AND INSTALL NEW 2'X2' 4-WAY CEILING CASSETTE MINI-SPLIT AIR HANDLING UNIT. ROUTE NEW CONDENSATE TO NEAREST TERMINATION. SUPPORT UNIT FROM STRUCTURE ABOVE.
3. FURNISH AND INSTALL NEW CENTRAL CONTROLLER INTEGRATING ALL SPLIT SYSTEMS.
4. FAN-COIL WAS INACCESSIBLE DURING TIME OF SURVEY. PRIOR TO SUBMITTALS AND ORDERING, THE CONTRACTOR SHALL FIELD VERIFY UNIT CAPACITY. SCHEDULED CAPACITY IS ASSUMED BASED ON EXISTING 1988 DOCUMENTATION.
5. PROVIDE NEW FAN COIL UNIT. SUSPEND FROM STRUCTURE ABOVE. ROUTE CONDENSATE TO NEAREST TERMINATION.
6. PROVIDE NEW AIR DEVICE. RECONNECT TO EXISTING DUCTWORK. CONTRACTOR SHALL FIELD VERIFY DUCT CONNECTION PRIOR TO ORDERING.
7. PROVIDE NEW DUCTWORK AS INDICATED ON DRAWINGS. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCT TRANSITIONS TO PROPERLY RECONNECT TO THE EXISTING SUPPLY AND RETURN DUCTWORK.
8. FURNISH NEW THERMOSTAT AND INSTALL AT 48" AFF.

TESTING AND BALANCING:

REFER TO THE DEMOLITION SHEETS FOR TESTING AND BALANCING REQUIREMENTS BEFORE DEMOLITION OF THE EXISTING HVAC EQUIPMENT.

THE RESULTS OF THIS T&B AUDIT SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THEIR REVIEW.

AFTER EACH FAN COIL SYSTEM HAS THE AIRFLOW DOCUMENTED, THIS DATA SHALL BE USED TO REBALANCE THE NEW HVAC UNITS.

THE T&B CONTRACTOR WILL PRODUCE A REPORT THAT SHOWS THE FINAL AIRFLOW RATES OF EACH AIR DEVICE AND AT EACH HVAC UNIT FOR THE OWNER'S RECORDS.

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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02-23-24

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR MECHANICAL PLAN - NEW WORK

PROJECT NO: 2308 A1

REVISIONS DATE

SHEET NO: M-103

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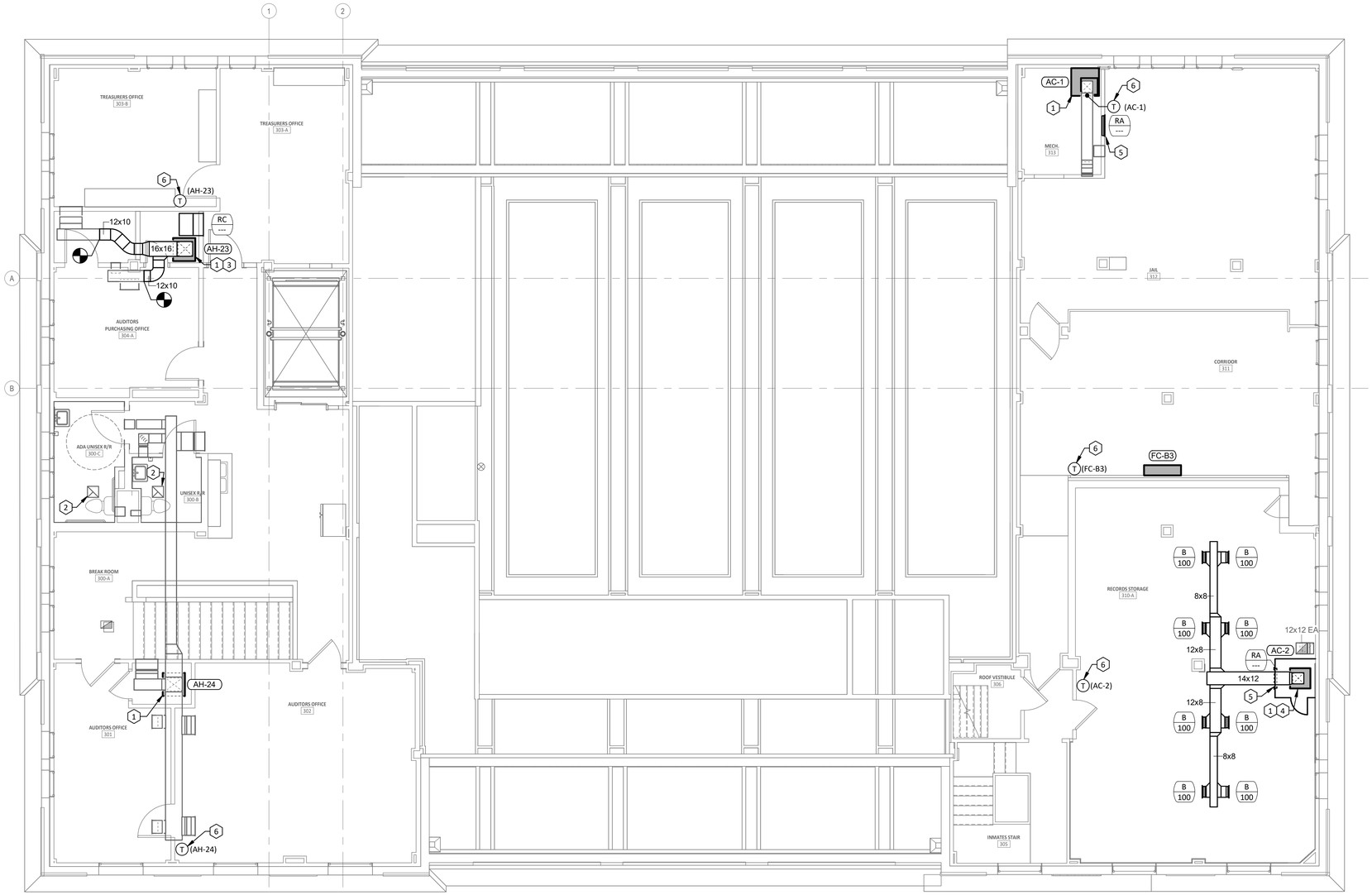

1 THIRD FLOOR MECHANICAL PLAN - NEW WORK

Mechanical — 3/16" = 1'-0"

NORTH

SCALE: 3/16"=1'-0"

0 2' 4' 8' 12'

MECHANICAL NEW WORK KEYED NOTES, SHEET M-104:

1. FURNISH AND INSTALL NEW FAN COIL UNIT, THERMOSTAT, AND REFRIGERANT PIPING ACCORDING TO THE MANUFACTURER'S INSTALLATION GUIDELINES. NEW REFRIGERANT PIPING SHALL BE ROUTED TO FOLLOW THE EXISTING PATH. RECONNECT TO EXISTING ELECTRICAL DISCONNECT, AND CONDENSATE LINE. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCT TRANSITIONS TO PROPERLY RECONNECT TO THE EXISTING SUPPLY AND RETURN DUCTWORK.
2. PROVIDE NEW AIR DEVICE. RECONNECT TO EXISTING DUCTWORK. CONTRACTOR SHALL FIELD VERIFY DUCT CONNECTION PRIOR TO ORDERING.
3. PROVIDE NEW DUCTWORK AS INDICATED ON DRAWINGS. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCT TRANSITIONS TO PROPERLY RECONNECT TO THE EXISTING SUPPLY AND RETURN DUCTWORK.
4. PROVIDE NEW FAN COIL UNIT IN MECHANICAL CLOSET. PROVIDE UNIT WITH 24" TALL SUPPORT. ROUTE NEW DUCTWORK AS INDICATED ON DRAWINGS. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION. COORDINATE COLOR AND FINISH OF DUCTWORK AND AIR DEVICES WITH ARCHITECT.
5. COORDINATE RETURN AIR DEVICE MOUNTING HEIGHT, COLOR, AND FINISH WITH ARCHITECT.
6. FURNISH NEW THERMOSTAT AND INSTALL 48" AFF.

TESTING AND BALANCING:

REFER TO THE DEMOLITION SHEETS FOR TESTING AND BALANCING REQUIREMENTS BEFORE DEMOLITION OF THE EXISTING HVAC EQUIPMENT.

THE RESULTS OF THIS T&B AUDIT SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THEIR REVIEW.

AFTER EACH FAN COIL SYSTEM HAS THE AIRFLOW DOCUMENTED, THIS DATA SHALL BE USED TO REBALANCE THE NEW HVAC UNITS.

THE T&B CONTRACTOR WILL PRODUCE A REPORT THAT SHOWS THE FINAL AIRFLOW RATES OF EACH AIR DEVICE AND AT EACH HVAC UNIT FOR THE OWNER'S RECORDS.

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

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PROJECT NO.: 2023.044

02-23-24

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR MECHANICAL PLAN - NEW WORK

PROJECT NO: 2308 A1

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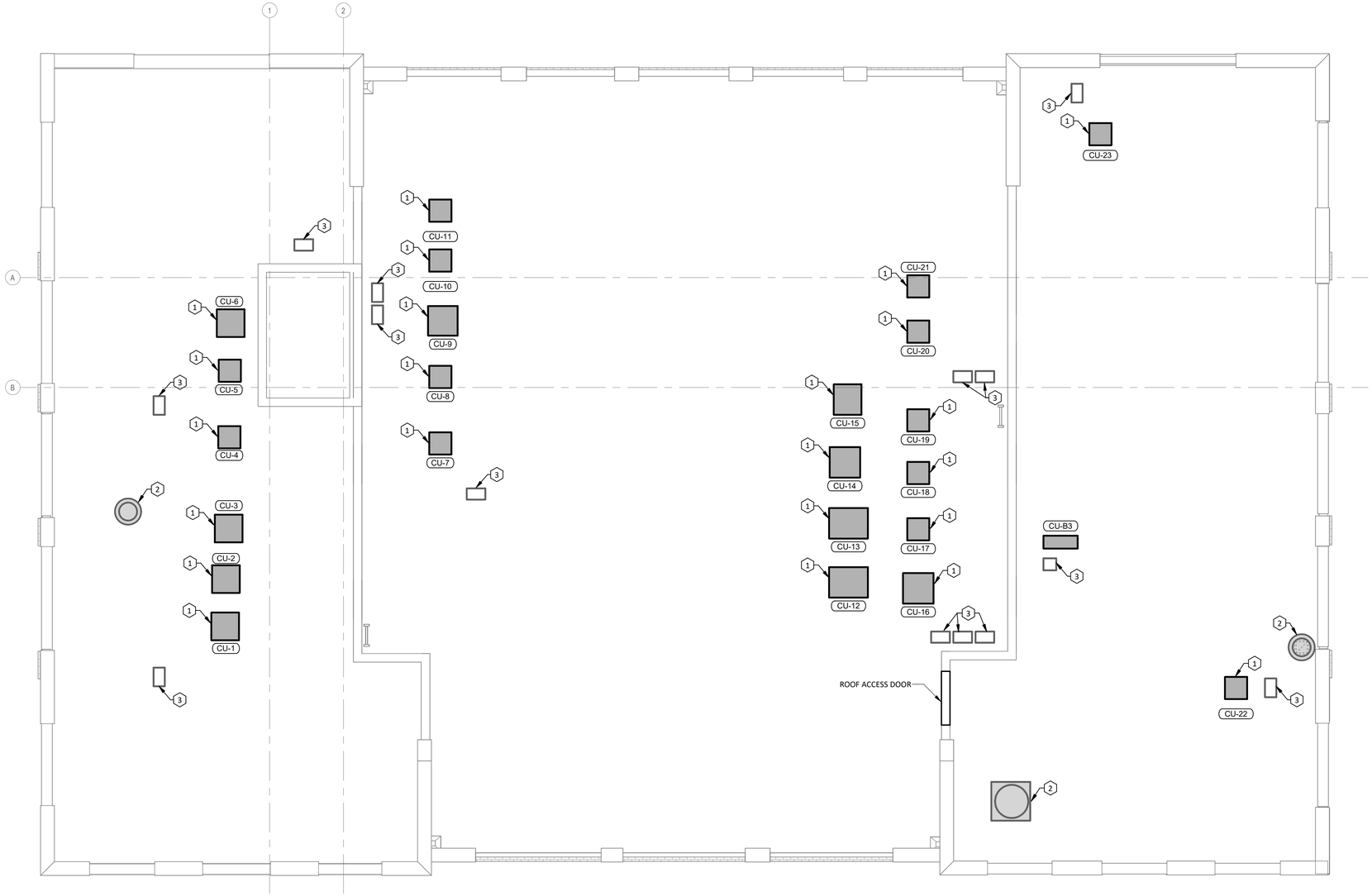

NORTH

1 ROOF MECHANICAL PLAN - NEW WORK

Mechanical 3/16" = 1'-0"

MECHANICAL NEW WORK KEYED NOTES, SHEET M-105:

1. PROVIDE NEW CONDENSING UNIT ON EXISTING I-BEAM ROOF SUPPORTS. ALL EXTERIOR REFRIGERANT PIPING SHALL BE PROTECTED BY ALUMINUM JACKETING. ROUTE REFRIGERANT PIPING TO EXISTING ROOF VAULT. CONTRACTOR SHALL FIELD VERIFY THE ASSOCIATION BETWEEN EACH ROOF MOUNTED CONDENSING UNIT AND ITS CORRESPONDING FAN COIL UNIT.
2. EXISTING EQUIPMENT TO REMAIN.
3. EXISTING REFRIGERANT PIPING ROOF VAULT SHOWN FOR REFERENCE ONLY.

TESTING AND BALANCING:

REFER TO THE DEMOLITION SHEETS FOR TESTING AND BALANCING REQUIREMENTS BEFORE DEMOLITION OF THE EXISTING HVAC EQUIPMENT.

THE RESULTS OF THIS T&B AUDIT SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THEIR REVIEW.

AFTER EACH FAN COIL SYSTEM HAS THE AIRFLOW DOCUMENTED, THIS DATA SHALL BE USED TO REBALANCE THE NEW HVAC UNITS.

THE T&B CONTRACTOR WILL PRODUCE A REPORT THAT SHOWS THE FINAL AIRFLOW RATES OF EACH AIR DEVICE AND AT EACH HVAC UNIT FOR THE OWNER'S RECORDS.

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL REFRIGERANT PIPING CONNECTIONS PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR MAPPING AND LABELING THE CONNECTIVITY BETWEEN EACH ROOF-MOUNTED CONDENSING UNIT AND ITS RESPECTIVE INTERIOR FAN COIL UNIT. NEW REFRIGERANT PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ROOF MECHANICAL PLAN - NEW WORK

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: M-105

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NEW SPLIT SYSTEM SCHEDULE

	TAG	AH-23	AH-24	AC-12	AC-13	AH-6	AH-7	AH-17	AH-8	AH-9	AH-11	AH-14	AH-15
INDOOR UNIT	TYPE	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION
	NOM. TONNAGE	5.0	4.0	3.5	2.0	2.0	4.0	3.5	2.0	2.0	2.0	5.0	5.0
	AUX ELECTRIC HEATER												
	VOLTAGE / PH	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3
	MCA / MOCP (AMPS)	58.2 / 60	58.2 / 60	52 / 60	32 / 35	32 / 35	58.2 / 60	52 / 60	32 / 35	32 / 35	32 / 35	58.2 / 60	58.2 / 60
	CAPACITY (KW)	20	20	15	10	10	20	15	10	10	10	20	20
	WARREN HEATER MODEL NO.	WKS2004(B)	WKS2004(B)	WKS1504(B)	WKS1004	WKS1004	WKS2004(B)	WKS1504(B)	WKS1004	WKS1004	WKS1004	WKS2004(B)	WKS2004(B)
	ELECTRICAL REQUIREMENTS												
	VOLTAGE / PH	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1
	MCA / MOCP (AMPS)	6.8 / 15	6.5 / 15	6.5 / 15	5 / 15	5 / 15	6.5 / 15	6.5 / 15	5 / 15	5 / 15	5 / 15	6.8 / 15	6.8 / 15
OUTDOOR UNIT	TAG	**	**	**	**	**	**	**	**	**	AHCU-11	**	**
	REFRIGERANT	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32
	EER2 / SEER2	9 / 16.2	9 / 17	9 / 17	10.2 / 18	10.2 / 18	9 / 17	9 / 17	10.2 / 18	10.2 / 18	10.2 / 18	9 / 16.2	9 / 16.2
	STAGES	--	--	VARIABLE	VARIABLE	VARIABLE	--	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE
	AMBIENT COOLING DESIGN TEMP...	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75
	ELECTRICAL REQUIREMENTS												
	VOLTAGE / PH	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1
	MCA / MOCP (AMPS)	37.5 / 40	31.8 / 35	31.8 / 35	16.8 / 20	16.8 / 20	31.8 / 35	31.8 / 35	16.8 / 20	16.8 / 20	16.8 / 20	37.5 / 40	37.5 / 40
MANUFACTURER		DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN
INDOOR MODEL		DFVE60DP1300	DFVE48DP1300	DFVE42CP1300	DFVE24BP1300	DFVE24BP1300	DFVE48DP1300	DFVE42CP1300	DFVE24BP1300	DFVE24BP1300	DFVE24BP1300	DFVE60DP1300	DFVE60DP1300
INDOOR UNIT WEIGHT (LBS)		170	155	140	120	120	155	140	120	120	120	170	170
OUTDOOR MODEL		DC6VSS6010	DC6VSS4810	DC6VSS4210	DC6VSS2410	DC6VSS2410	DC6VSS4810	DC6VSS4210	DC6VSS2410	DC6VSS2410	DC6VSS2410	DC6VSS6010	DC6VSS6010
OUTDOOR UNIT WEIGHT (LBS)		200	200	200	140	140	200	200	140	140	140	200	200

	TAG	AH-12	FC-B1	AC-5	AC-4	AC-2	AC-1	AH-1	AH-2	AH-3	AH-13	AC-15	FCU-12
INDOOR UNIT	TYPE	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION	MULTI-POSITION
	NOM. TONNAGE	5.0	2.0	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0	3.5	3.0
	AUX ELECTRIC HEATER												
	VOLTAGE / PH	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3	240 / 3
	MCA / MOCP (AMPS)	58.2 / 60	32 / 35	31 / 35	32 / 35	32 / 35	32 / 35	32 / 35	32 / 35	32 / 35	32 / 35	52 / 60	52 / 60
	CAPACITY (KW)	20	10	10	10	10	10	10	10	10	10	15	15
	WARREN HEATER MODEL NO.	WKS2004(B)	WKS1004	WKS1004	WKS1004	WKS1004	WKS1004	WKS1004	WKS1004	WKS1004	WKS1004	WKS1504(B)	WKS1504(B)
	ELECTRICAL REQUIREMENTS												
	VOLTAGE / PH	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1
	MCA / MOCP (AMPS)	6.8 / 15	5 / 15	--	--	5 / 15	5 / 15	5 / 15	5 / 15	5 / 15	5 / 15	6.5 / 15	--
OUTDOOR UNIT	TAG	**	CU-B1	**	**	**	**	**	**	**	**	**	FCCU-12
	REFRIGERANT	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32
	EER2 / SEER2	9 / 16.2	10.2 / 18	10 / 17.5	10 / 17.5	10.2 / 18	10.2 / 18	10.2 / 18	10.2 / 18	10.2 / 18	10.2 / 18	9 / 17	9 / 16.6
	STAGES	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE
	AMBIENT COOLING DESIGN TEMP...	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75	95 / 75
	ELECTRICAL REQUIREMENTS												
	VOLTAGE / PH	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1	230 / 1
	MCA / MOCP (AMPS)	37.5 / 40	16.8 / 20	22.4 / 25	22.4 / 25	16.8 / 20	16.8 / 20	16.8 / 20	16.8 / 20	16.8 / 20	16.8 / 20	31.8 / 35	22.4 / 25
MANUFACTURER		DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN
INDOOR MODEL		DFVE60DP1300	DFVE24BP1300	DFVE36CP1300	DFVE36CP1300	DFVE24BP1300	DFVE24BP1300	DFVE24BP1300	DFVE24BP1300	DFVE24BP1300	DFVE24BP1300	DFVE42CP1300	DFVE36CP1300
INDOOR UNIT WEIGHT (LBS)		170	120	140	140	120	120	120	120	120	120	140	140
OUTDOOR MODEL		DC6VSS6010	DC6VSS2410	DC6VSS3010	DC6VSS3010	DC6VSS2410	DC6VSS2410	DC6VSS2410	DC6VSS2410	DC6VSS2410	DC6VSS2410	DC6VSS4210	DC6VSS3610
OUTDOOR UNIT WEIGHT (LBS)		200	140	140	140	140	140	140	140	140	140	200	140

NOTES (ALL APPLY):

1. CONDENSING UNITS SHALL BE PROVIDED WITH VARIABLE SPEED COMPRESSORS.
2. FCU'S INCLUDE VARIABLE SPEED ECM FAN MOTOR.
3. MANUFACTURER SHALL PROVIDE SINGLE-POINT POWER KIT FOR FAN COIL ELECTRIC HEATERS.
4. INDOOR FAN COIL UNITS INCLUDE ELECTRONIC EXPANSION VALVE.
5. PROVIDE WIRED PROGRAMMABLE THERMOSTAT.
6. PROVIDE HAILGUARDS ON ALL OUTDOOR CONDENSING UNITS.
7. PROVIDE UNIT WITH BUCK-BOOST TRANSFORMER, REDUCING INPUT VOLTAGE FROM 240V/1PH TO 230V/1PH.

**** CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ASSOCIATED CONDENSING UNIT ON ROOF.**

AIR DEVICE SCHEDULE (1,2,3,4)

MARK	CFM (MIN-MAX)	SIZE	TYPE	REMARKS
A	100-200	12" X 6"	301FS	6,7
RA	-	22" X 22"	50F	6

AIR DEVICE SCHEDULE NOTES:

1. UNLESS OTHERWISE NOTED, ALL AIR DEVICES IN THIS SCHEDULE HAVE BEEN TAKEN FROM TITUS CATALOG FOR CONTRACTOR'S REFERENCE AS TO STYLE, TYPE, DEFLECTION, DESIGN, THROW, NOISE COEFFICIENT, AND QUALITY REQUIRED.
2. CONTRACTOR SHALL COORDINATE COLOR SELECTION OF AIR DEVICES WITH ARCHITECT.
3. CONTRACTOR SHALL PROVIDE APPROPRIATE TYPE OF AIR DEVICE FOR THE CEILING SYSTEM PROVIDED.
4. FLEXIBLE DUCTWORK INDICATED ON THE FLOOR PLANS SHALL BE FULL SIZE OF THE SCHEDULED AIR DEVICE NECK OR AS INDICATED.
6. PROVIDE DEVICE WITH SURFACE MOUNT BORDER.
7. PROVIDE DEVICE WITH OPPOSED BLADE DAMPER.

MINI-SPLITS - OUTDOOR/INDOOR SCHEDULE

SYSTEM	MARK	MANUFACTURER	MODEL NUMBER	UNIT DESCRIPTION	NOM. TONS	EAT DB/WB (F)	MIN. TOTAL (MBH)	MIN. HEATING @ 47 F (MBH)	PEAK AIRFLOW (CFM)	VOLT	PH	MCA (A)	MOCP (A)	MIN. SEER2	MIN. HSPF2	NET WEIGHT (LBS)
ODU	**	DAIKIN	RX12	HEAT-PUMP CONDENSING UNIT	1	---	11		---	208	1	8.9	15	19.0	8.5	100
IDU	AC-14	DAIKIN	FFQ12	CEILING CASSETTE	1	80.0/67.0	11		400	POWERED BY CONDENSING UNIT				---	---	45
ODU	CU-B3	DAIKIN	RXF18	HEAT-PUMP CONDENSING UNIT	1.5	---	17		---	208	1	16.4	20	21	9.6	110
IDU	FC-B3	DAIKIN	FTXF18	WALL MOUNTED	1.5	80.0/67.0	17		600	POWERED BY CONDENSING UNIT				---	---	40
ODU	AHCU-10	DAIKIN	RX12	HEAT-PUMP CONDENSING UNIT	1.5	---	11	---	---	208	1	8.9	15	19	8.5	100
IDU	AH-10	DAIKIN	FFQ12	CEILING CASSETTE	1.5	80.0/67.0	11	---	400	POWERED BY CONDENSING UNIT				---	---	45

NOTES: OUTDOOR UNIT (ALL APPLY)

1. COOLING AND HEATING CAPACITIES BASED ON SUMMER 105 DEGREE F DRY BULB OUTDOOR TEMP AND WINTER 47 DEGREE F DRY BULB OUTDOOR TEMP.
2. PROVIDE CONDENSING UNIT WITH HAIL GUARD.
3. PROVIDE UNIT WITH BUCK-BOOST TRANSFORMER, REDUCING INPUT VOLTAGE FROM 240V/1PH TO 208V/1PH, .
4. ALL REFRIGERANT PIPING SHALL BE INSULATED PER SPECIFICATIONS.

**** CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ASSOCIATED CONDENSING UNIT ON ROOF.**

NOTES: INDOOR UNIT (ALL APPLY)

1. MINIMUM COOLING CAPACITY BASED ON 105 F DRY BULB OUTDOOR AMBIENT TEMPERATURE. HEATING BASED ON 47 F DRY BULB OUTDOOR TEMPERATURE AND 70 F INDOOR DRY BULB TEMP.
2. FURNISH AND INSTALL CONDENSATE PUMP WITH OVERFLOW SWITCH. WIRE CONDENSATE PUMP TO SHUT DOWN UNIT ON OVERFLOW ALARM.
3. PROVIDE UNIT WITH WIRED WALL MOUNTED THERMOSTAT.

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STATE OF TEXAS FIRM REGISTRATION NO. F-19468
PROJECT NO.: 2023.044

02-23-24

STATE OF TEXAS
JOHN P. DELGADO
151397
LICENSED
PROFESSIONAL ENGINEER

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: NEW MECHANICAL SCHEDULES

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: M-201

2/26/2026 5:23:49 PM

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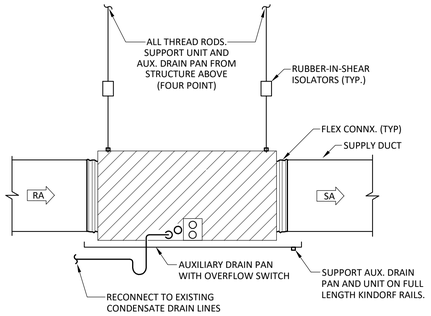
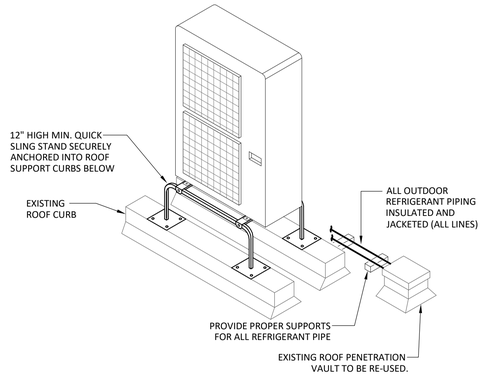
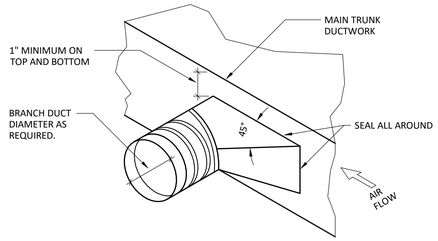


1 FAN COIL UNIT DETAIL
SCALE: NOT TO SCALE



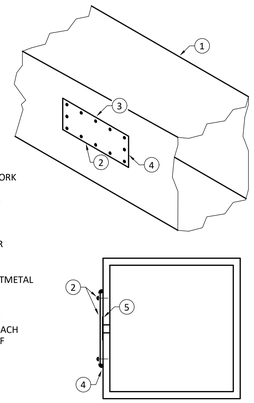
2 ROOF MOUNTED CONDENSER SUPPORT
SCALE: NOT TO SCALE



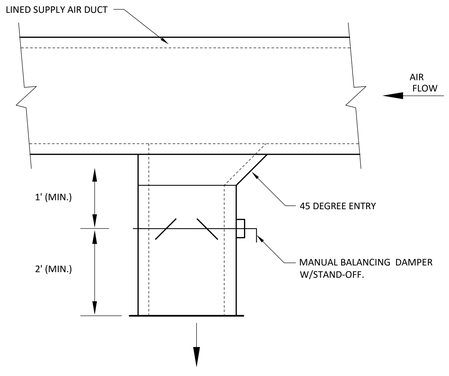
3 TYPICAL BRANCH TAKE-OFF
SCALE: NOT TO SCALE

KEY NOTES:

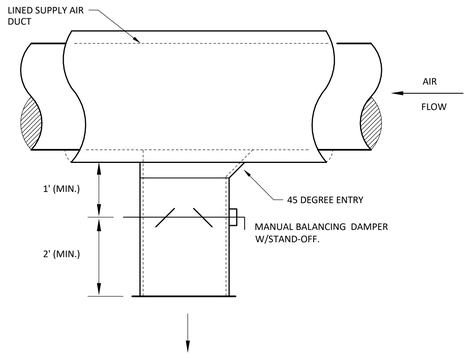
1. EXISTING INSULATED SHEET METAL DUCTWORK
2. PROVIDE GALVANIZED SHEET METAL COVER SECURELY FASTENED TO DUCTWORK WITH MOUNTING SCREWS (3"O.C. MAX.)
3. RESTORE DUCT WRAP INSULATION & VAPOR BARRIER ON EXTERNALLY INSULATED DUCT
4. PROVIDE DUCT SEALANT ALL AROUND SHEETMETAL COVER FOR AN AIRTIGHT INSTALLATION
5. PROVIDE SQUARE OF 1/2" THICK FOILFACED DUCT WRAP (FOIL TOWARD THE DUCT) AT EACH OPENING LAPPING 1" IN EACH DIRECTION OF EACH OPENING



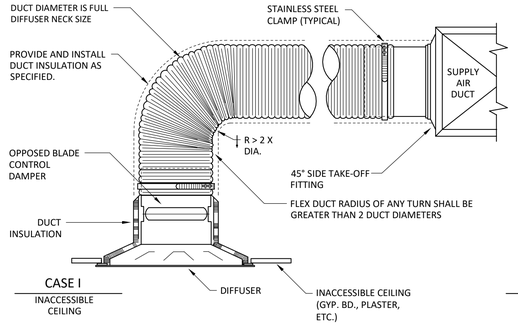
4 DUCTWORK REPAIR PATCH DETAIL
SCALE: NOT TO SCALE



5 TYPICAL DUCT TAKE-OFF
SCALE: NOT TO SCALE



6 TYPICAL DUCT TAKE-OFF
SCALE: NOT TO SCALE



7 TYPICAL DIFFUSER INSTALLATION
SCALE: NOT TO SCALE

INSULATION SCHEDULE

SERVICE	TYPE	MINIMUM THICKNESS (INCHES)	ADDITIONAL	NOTES
PIPING				
REFRIGERATED DRINKING FOUNTAIN WASTE	C	1	--	--
RECEIVING COLD CONDENSATES OR REFR. WATER				
DOMESTIC HOT WATER (INTERIOR)				
1/2" THRU 1ø1/2"	A	1-½	--	--
2" THRU 4" IPS	A	2	--	--
MISC. PIPING (EXTERIOR)				
REFRIGERANT PIPING	C	1-½ (min.)	B	--
HORIZONTAL ROOF DRAIN PIPING	A	1	--	--
DUCTWORK				
CONCEALED: SUPPLY AIR, OUTSIDE AIR	C	1-½	--	E
EXPOSED: SUPPLY AIR, OUTSIDE AIR	B	1-½	--	E
RETURN AIR: DUCT LINER	D	1	--	-

GENERAL NOTES:

1. RETURN AIR AND TRANSFER AIR DUCTWORK REQUIRES INTERNAL DUCT-LINER AS SPECIFIED IN DIVISION 23 - SECTION 23 31 00 DUCTWORK AND ACCESSORIES.
2. SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH INSULATION AS HEREINBEFORE INDICATED FOR CONCEALED OR EXPOSED LOCATIONS EXCEPT WHERE INDICATED ON THE DRAWINGS OR AS SPECIFIED IN DIVISION 23 - SECTION 23 31 13 DUCTWORK AND ACCESSORIES TO BE INTERNALLY LINED.
3. ALL EXTERIOR PIPE INSULATION SHALL BE PROTECTED BY AN ALUMINUM WEATHERPROOF JACKET. THE JACKET SHALL BE SECURED USING ALUMINUM BANDS.
4. ALL PIPING INSULATION THICKNESS SHALL COMPLY, AT A MINIMUM, WITH THE REQUIREMENTS SPECIFIED IN TABLE C403.12.3.

NOTES:

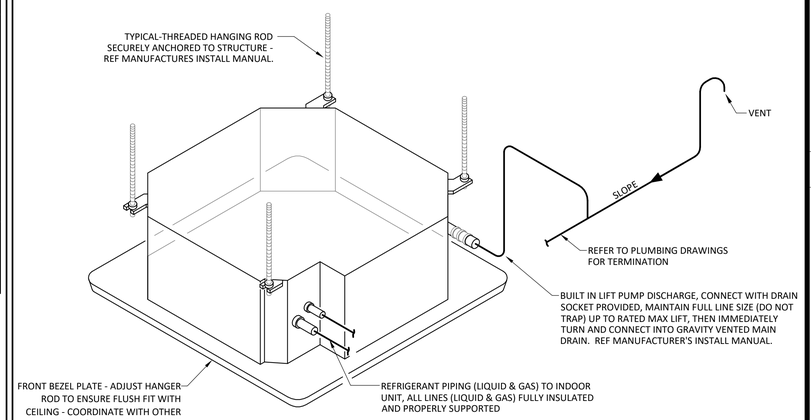
A. TYPE B PIPE INSULATION IS NOT ACCEPTABLE WHERE EXPOSED IN OCCUPIED AREAS OR IN RETURN AIR PLENUMS.
B. TYPE A INSULATION ACCEPTABLE ONLY WHERE CONCEALED OR OVERHEAD.
C. TYPE C ACCEPTABLE ONLY WHERE PREFORMED FITTING INSULATION IS NOT AVAILABLE.
D. EQUIPMENT SPECIFIED TO BE FACTORY-INSULATED WILL NOT REQUIRE FIELD INSULATION.
E. MINIMUM "INSTALLED THERMAL RESISTANCE (R)" VALUE MUST BE 6.0.
F. MINIMUM "INSTALLED THERMAL RESISTANCE (R)" VALUE MUST BE 8.0.
G. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION REQUIREMENTS ON CHILLED WATER PIPING.

DUCT CONSTRUCTION AND LEAKAGE TESTING SCHEDULE

SYSTEM	DUCT PRESSURE CLASS (INCHES OF WATER COLUMN)				SUPPLY DUCT				RETURN/ OUTSIDE AIR		DUCT TEST PRESSURE	NOTES
					ROUND/OVAL		RECTANGULAR					
	SUPPLY DUCT	RETURN DUCT	EXHAUST DUCT	OUTSIDE AIR DUCT	DUCT SEAL CLASS	DUCT LEAK CLASS	DUCT SEAL CLASS	DUCT LEAK CLASS	DUCT SEAL CLASS	DUCT LEAK CLASS	INCHES OF WATER COLUMN	
PACKAGED ROOFTOP -VAV	4	-	-	-	A	3	A	6	-	-	4.0	1,2
	-	-2	-	-	-	-	-	-	A	24	2.0	1,2
PACKAGED ROOFTOP - CV	2	-	-	-	-	-	A	12	-	-	2.0	1,2
	-	-1	-	-	-	-	-	-	A	24	1.0	1,2
VAV TERMINAL BOXES	2	-	-	-	-	-	A	12	-	-	2.0	1,2,3
EXHAUST DUCT	-	-	-1	-	-	-	A	24	-	-	1.0	1,2

NOTES:

1. TEST IN ACCORDANCE WITH THE PROCEDURES IN SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL.
2. DUCT SEAL CLASS A IS REQUIRED ON ALL DUCT SYSTEMS.
3. DUCT TEST SHALL INCLUDE AIR SUPPLY DUCT UP TO THE INLET OF THE VAV BOX.



8 CEILING CASSETTE DETAIL
SCALE: NOT TO SCALE

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02-23-24

STATE OF TEXAS
JOHN P. DELGADO
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LICENSED
PROFESSIONAL ENGINEER

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: MECHANICAL DETAILS

PROJECT NO: 2308 A1

REVISIONS	DATE

SHEET NO: M-301

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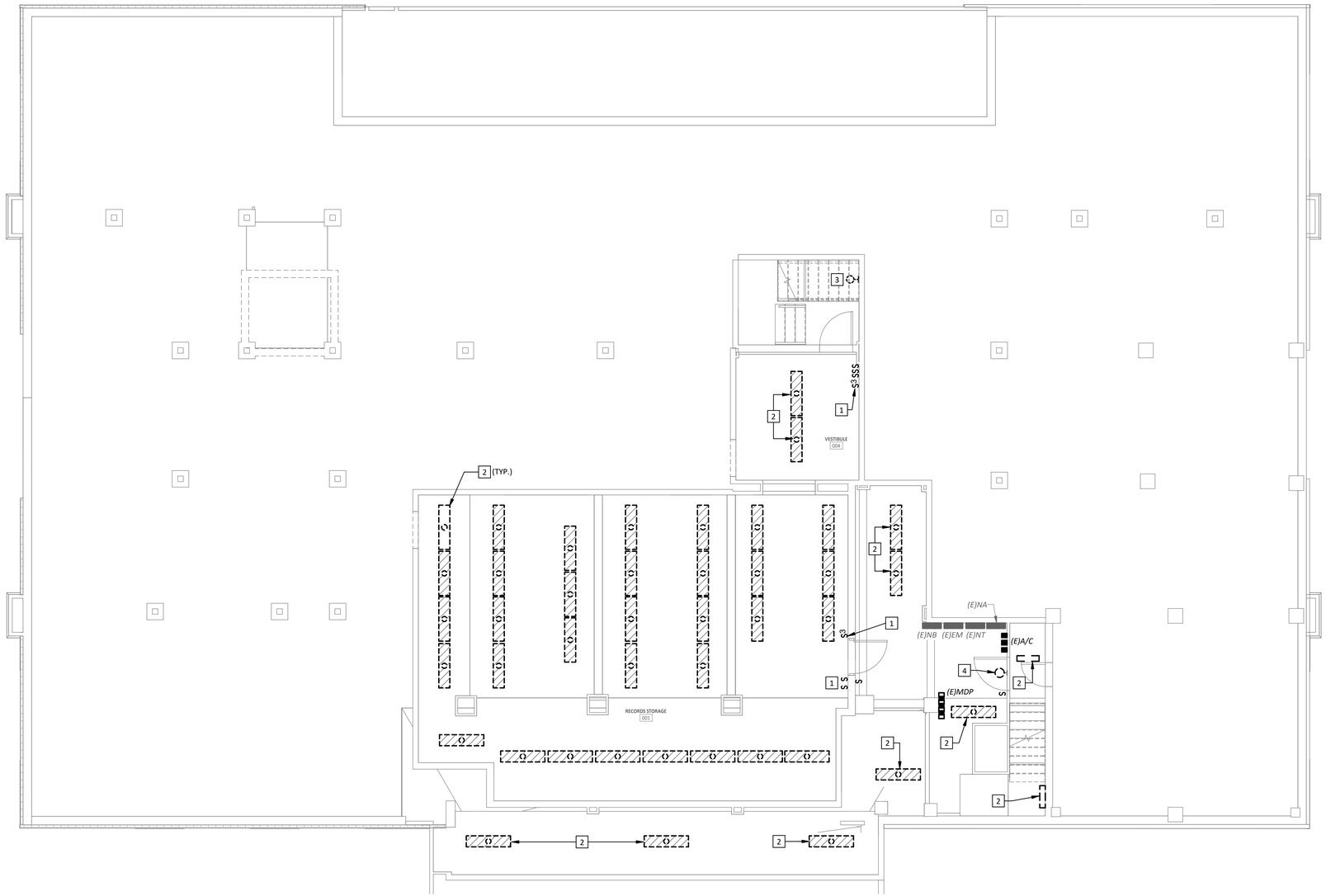
LIGHTING DEMOLITION KEYED NOTES:

1. REMOVE EXISTING TOGGLE LIGHT SWITCH AND ASSOCIATED JUNCTION BOX AND REINSTALL JUNCTION BOX 48" A.F.F. TO TOP OF JUNCTION BOX. REFER TO DETAIL 2, SHEET E-10. PATCH AND PAINT WALL TO MATCH EXISTING ADJACENT SURFACES.
2. REMOVE EXISTING SURFACE MOUNTED 1X4 WRAPAROUND FLUORESCENT LIGHT FIXTURE IN THIS ROOM. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
3. REMOVE EXISTING SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE IN THIS STAIRWELL. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
4. REMOVE EXISTING EXIT SIGN. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.



NORTH

1 BASEMENT LIGHTING PLAN - DEMOLITION

Electrical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

STATE OF TEXAS
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99313
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02/25/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT LIGHTING PLAN - DEMOLITION

PROJECT NO: 2308 A1

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SHEET NO: ED-101

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LIGHTING DEMOLITION KEYED NOTES:

1. REMOVE EXISTING TOGGLE LIGHT SWITCH(ES) AND ASSOCIATED JUNCTION BOX AND REINSTALL JUNCTION BOX 48" A.F.F. TO TOP OF JUNCTION BOX. REFER TO DETAIL 2, SHEET E-10. PATCH AND PAINT WALL TO MATCH EXISTING ADJACENT SURFACES.
2. REMOVE EXISTING 2X4 LAY-IN FLUORESCENT LIGHT FIXTURES IN THIS ROOM. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
3. REMOVE EXISTING WALL MOUNTED 4' FLUORESCENT STRIP. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
4. REMOVE EXISTING WALL MOUNTED 6' FLUORESCENT STRIP. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
5. REMOVE EXISTING DOWNLIGHTS IN THIS ROOM. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
6. REMOVE EXISTING CEILING LIGHT PENDANT. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
7. REMOVE EXISTING CEILING LIGHT ALONG WITH EXISTING SWITCH AND CIRCUIT CONDUCTORS BACK TO PANEL.
8. REMOVE EXISTING LIGHTING IN THIS STAIRWELL. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.

NORTH

1 FIRST FLOOR LIGHTING PLAN - DEMOLITION

Electrical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR LIGHTING PLAN - DEMOLITION

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: ED-102

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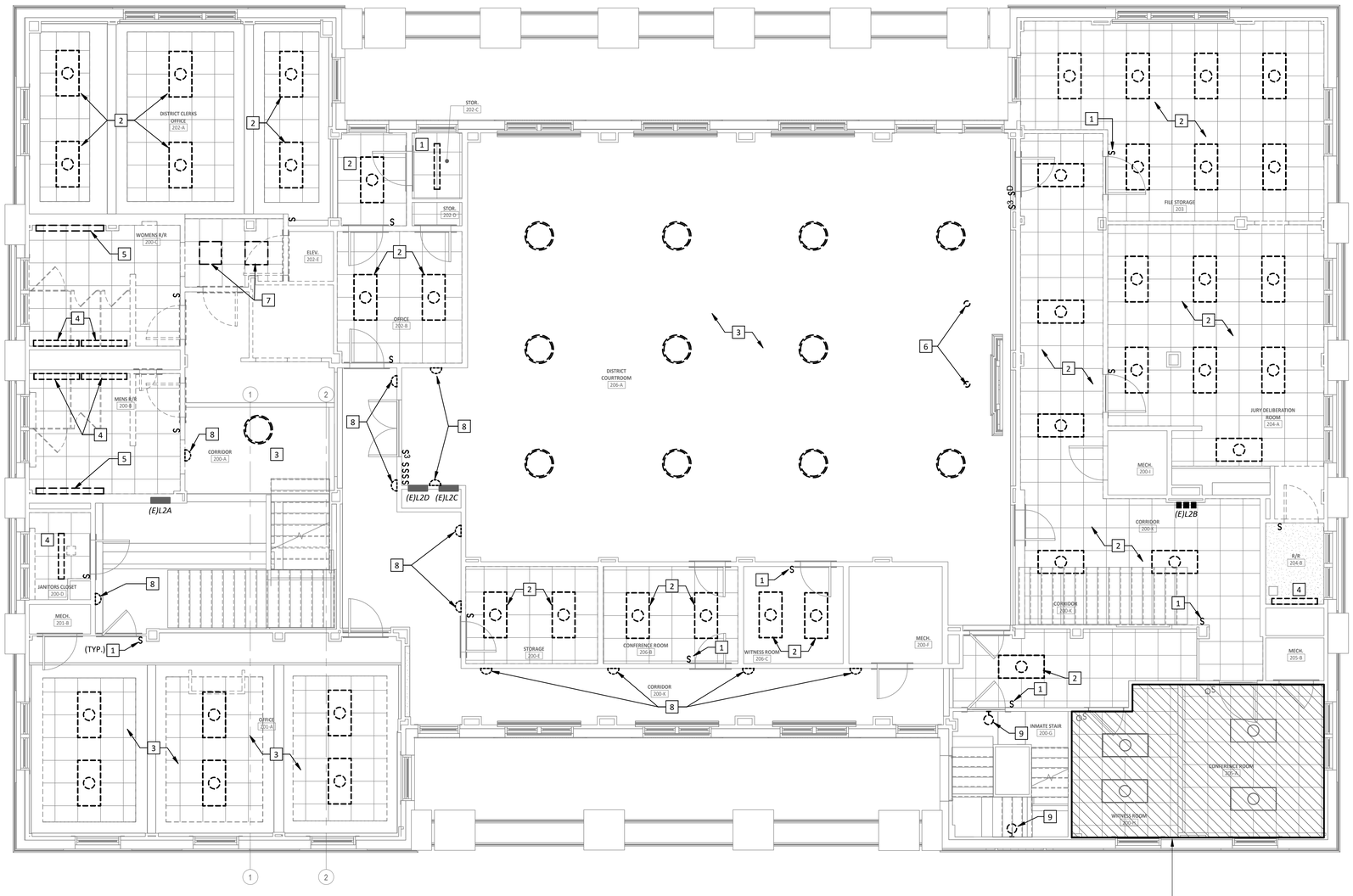

LIGHTING DEMOLITION KEYED NOTES:

1. REMOVE EXISTING TOGGLE LIGHT SWITCH AND ASSOCIATED JUNCTION BOX AND REINSTALL JUNCTION BOX 48" A.F.F. TO TOP OF JUNCTION BOX. REFER TO DETAIL 2, SHEET E-10. PATCH AND PAINT WALL TO MATCH EXISTING ADJACENT SURFACES.
2. REMOVE EXISTING 2X4 LAY-IN FLUORESCENT LIGHT FIXTURES IN THIS ROOM. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
3. REMOVE EXISTING CEILING LIGHT PENDANT(S). UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
4. REMOVE EXISTING WALL MOUNTED 4' FLUORESCENT STRIP. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
5. REMOVE EXISTING WALL MOUNTED 6' FLUORESCENT STRIP. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
6. REMOVE EXISTING DOWNLIGHTS IN THIS ROOM. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
7. REMOVE EXISTING 2X2 LAY-IN FLUORESCENT LIGHT FIXTURES IN THIS ROOM. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
8. REMOVE EXISTING WALL SCOUNCE. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
9. REMOVE EXISTING LIGHTING IN THIS STAIRWELL. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.

NORTH

1 SECOND FLOOR LIGHTING PLAN - DEMOLITION

Electrical — 3/16" = 1'-0"

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR LIGHTING PLAN - DEMOLITION

PROJECT NO: 2308 A1

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SHEET NO: ED-103

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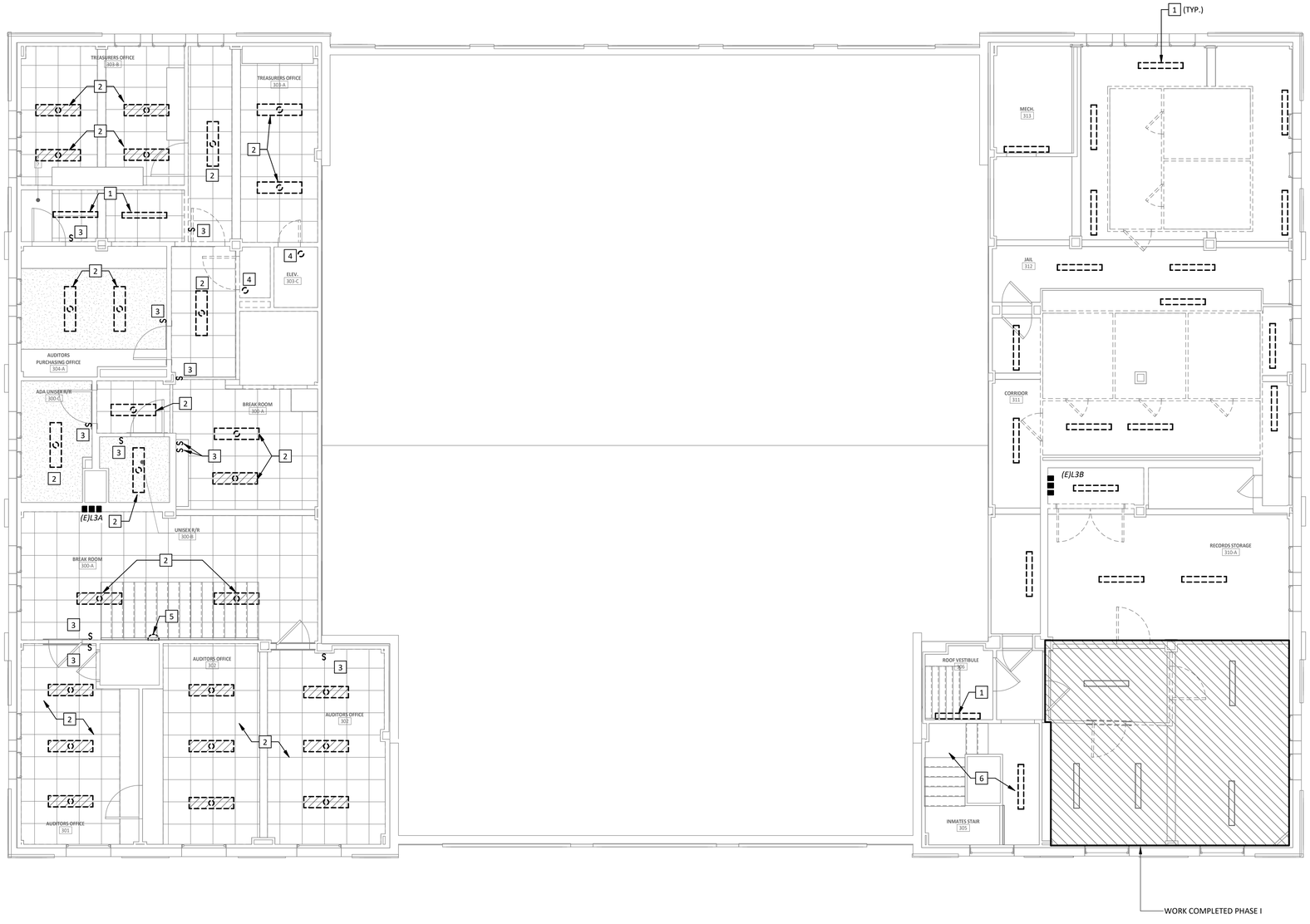

LIGHTING DEMOLITION KEYED NOTES, SHEET ED-104:

1. REMOVE EXISTING 4 FOOT FLUORESCENT STRIP(S). UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
2. REMOVE EXISTING SURFACE MOUNTED 1X4 WRAPAROUND FLUORESCENT LIGHT FIXTURE(S) IN THIS ROOM. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
3. REMOVE EXISTING TOGGLE LIGHT SWITCH AND ASSOCIATED JUNCTION BOX AND REINSTALL JUNCTION BOX 48" A.F.F. TO TOP OF JUNCTION BOX. REFER TO DETAIL 2, SHEET E-10. PATCH AND PAINT WALL TO MATCH EXISTING ADJACENT SURFACES.
4. REMOVE EXISTING CEILING LIGHT ALONG WITH EXISTING SWITCH AND CIRCUIT CONDUCTORS BACK TO PANEL.
5. REMOVE EXISTING WALL SCOUNCE. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.
6. REMOVE EXISTING LIGHTING IN THIS STAIRWELL. UTILIZE EXISTING CIRCUIT CONDUCTORS TO MAXIMUM EXTENT FOR NEW WORK.

NORTH

1 THIRD FLOOR LIGHTING PLAN - DEMOLITION

Electrical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR LIGHTING PLAN - DEMOLITION

PROJECT NO: 2308 A1

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SHEET NO: ED-104

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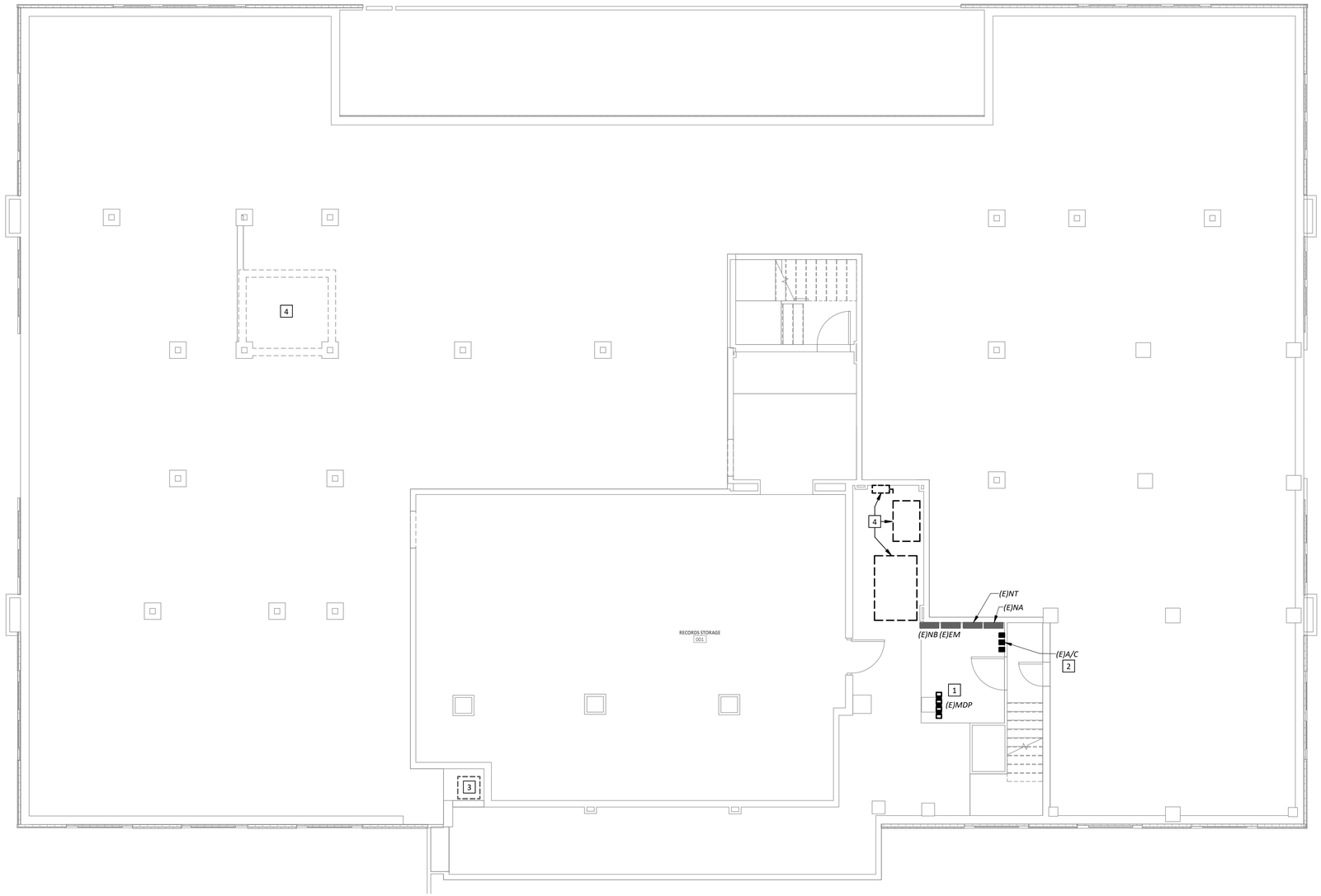

GENERAL ELECTRICAL DEMOLITION NOTES (FOR ALL ELECTRICAL SHEETS):

1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN DEMOLISHED AREA UNLESS OTHERWISE NOTED TO REMAIN OR IS SHOWN EXISTING. COMPLETELY REMOVE DEMOLISHED AND ABANDONED FIXTURES, DEVICES, PLATES, WIRE, CONDUIT, FITTING, HANGERS, STRAPS, SUPPORTS, ETC. IN ACCESSIBLE LOCATIONS, DO NOT ABANDON IN PLACE. REMOVE ALL WIRING FROM NON-ACCESSIBLE, CONCEALED CONDUITS AND ABANDON IN PLACE WITH CAP.
2. MAINTAIN ALL FEEDERS, BRANCH CIRCUITS AND CONTROL CIRCUITS EXISTING TO REMAIN OR THAT PASS THROUGH RENOVATED AREAS. RESTORE CIRCUITS AS REQUIRED IF INTERRUPTED BY DEMOLITION.
3. CIRCUITING TO SPECIFIC LIGHTS, RECEPTACLES, EQUIPMENT, ETC. WAS NOT AVAILABLE. PARTIAL BRANCH CIRCUIT WIRING DENOTED "EXISTING" ON PLANS IS SHOWN FOR REFERENCE AND/OR CLARIFICATION ONLY AND IS NOT TO BE CONSTRUED TO IMPLY COMPLETE CIRCUIT WIRING. SITE VERIFY TO ENSURE EXISTING DEVICES AND EQUIPMENT REMAIN OPERATIONAL AND IN GOOD WORKING ORDER THROUGHOUT COURSE OF CONSTRUCTION.
4. LOCATIONS AND QUANTITIES OF ALL ELECTRICAL ITEMS ARE APPROXIMATE AND IN SOME CASES ASSUMED DUE TO THE INACCESSIBILITY TO CERTAIN AREAS. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REMOVE OR RELOCATE ANY AND ALL ELECTRICAL ITEMS REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT.
5. EXISTING CONDUIT FOUND TO BE REUSABLE CAN BE USED FOR NEW WORK AT THE CONTRACTOR'S DISCRETION. ALL OTHER MATERIAL SHALL BE REMOVED FROM JOB SITE UNLESS OTHERWISE NOTED ON PLANS OR DIRECTED BY OWNER.
6. IN GENERAL, PATCH PENETRATIONS THROUGH WALLS TO MATCH EXISTING AS A RESULT OF ELECTRICAL DEMOLITION.
7. EXISTING PANEL CIRCUIT DIRECTORY CARDS SHALL BE UPDATED TO REFLECT IMPACT OF ELECTRICAL DEMOLITION AND NEW WORK.
8. CONDUCTORS AND WIRE SUPPORTED BY CEILING SYSTEM AND NOT STRUCTURE IN RENOVATED AREAS SHALL BE RE-INSTALLED AND SUPPORTED BY THE STRUCTURE WHEN THE EXISTING CEILING IS REMOVED. DO NOT ALLOW CONDUCTORS AND WIRE TO FALL BELOW THE EXISTING CEILING LINE.
9. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR, AS PART OF THE BID, THE TRACING OF THE EXISTING ELECTRICAL SYSTEM CIRCUITS INCLUDING BUT NOT LIMITED TO LIGHTING, RECEPTACLES, AND EQUIPMENT POWER.
10. MAINTAIN ALL EXISTING TELEPHONE AND DATA COMMUNICATION CIRCUITS THROUGHOUT RENOVATED AREAS. RESTORE CIRCUITS AS REQUIRED IF INTERRUPTED BY DEMOLITION.
11. ENSURE EXISTING FIRE ALARM SYSTEM AND COMPONENTS REMAIN FULLY OPERATIONAL DURING THE COURSE OF CONSTRUCTION.

ELECTRICAL DEMOLITION KEYED NOTES:

1. DISCONNECT AND REMOVE EXISTING PANEL. EXISTING FEEDERS SHALL REMAIN FOR REUSE; SEE ELECTRICAL RISER DIAGRAM.
2. DISCONNECT AND REMOVE EXISTING PANEL WITH ASSOCIATED BREAKERS, WIRES, AND CONDUITS.
3. DISCONNECT AND REMOVE ELECTRICAL CIRCUIT AND DISCONNECT FROM MECHANICAL UNIT(S) BEING REMOVED UNDER MECHANICAL WORK.
4. DISCONNECT AND REMOVE ELECTRICAL CIRCUIT, DISCONNECT, AND EQUIPMENT FROM EXISTING ELEVATOR INCLUDING ELEVATOR PIT AND SHAFT.

NORTH

1 BASEMENT POWER PLAN - DEMOLITION

Electrical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

STATE OF TEXAS
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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT POWER PLAN - DEMOLITION

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: ED-201

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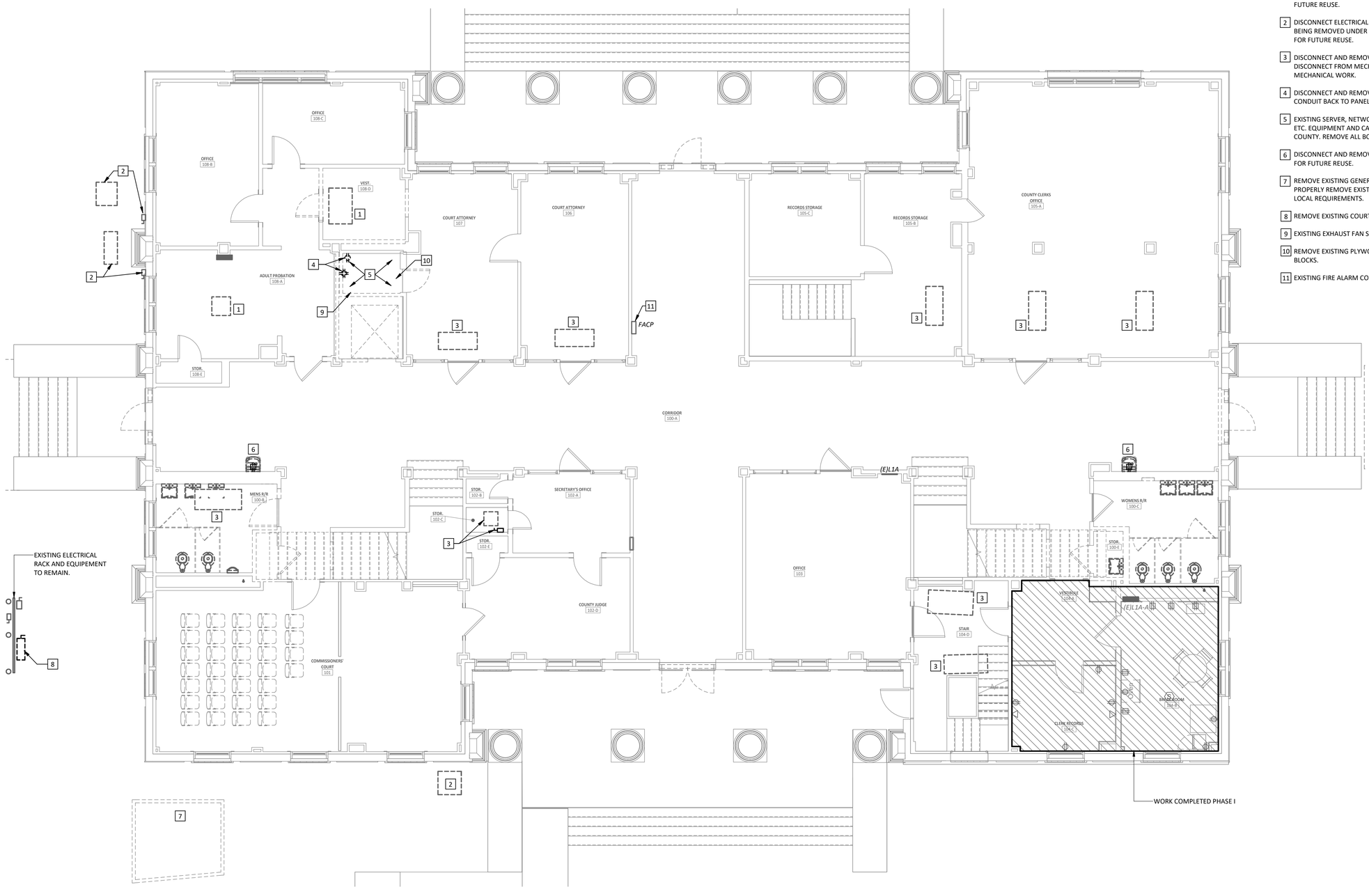
ELECTRICAL DEMOLITION KEYED NOTES:

1. DISCONNECT ELECTRICAL CIRCUIT FROM MECHANICAL UNIT(S) BEING REMOVED UNDER MECHANICAL WORK. RETAIN AND TAG CIRCUIT FOR FUTURE REUSE.
2. DISCONNECT ELECTRICAL CIRCUIT FROM EXISTING CONDESENSING UNIT(S) BEING REMOVED UNDER MECHANICAL WORK. RETAIN AND TAG CIRCUIT FOR FUTURE REUSE.
3. DISCONNECT AND REMOVE EXISTING ELECTRICAL CIRCUIT AND DISCONNECT FROM MECHANICAL UNIT(S) BEING REMOVED UNDER MECHANICAL WORK.
4. DISCONNECT AND REMOVE EXISTING IT ROOM RECEPTACLE, WIRE, AND CONDUIT BACK TO PANEL.
5. EXISTING SERVER, NETWORK, ACCESS CONTROL, SECURITY, TELEPHONE, ETC. EQUIPMENT AND CABLING SHALL BE REMOVED AND RELOCATED BY COUNTY. REMOVE ALL BOXES AND CONDUIT.
6. DISCONNECT AND REMOVE EXISTING OUTLET. RETAIN AND TAG CIRCUIT FOR FUTURE REUSE.
7. REMOVE EXISTING GENERATOR, TRANSFER SWITCH, WIRE, CONDUIT, ETC. PROPERLY REMOVE EXISTING FUEL AND LUBRICANTS PER ALL TCEQ AND LOCAL REQUIREMENTS.
8. REMOVE EXISTING COURTHOUSE DISCONNECT; SEE RISER DIAGRAM.
9. EXISTING EXHAUST FAN SHALL BE REMOVED.
10. REMOVE EXISTING PLYWOOD TELEPHONE BOARD AND PUNCHDOWN BLOCKS.
11. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.



1 FIRST FLOOR POWER PLAN - DEMOLITION

Electrical — 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR POWER PLAN - DEMOLITION

PROJECT NO: 2308 A1

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SHEET NO: ED-202

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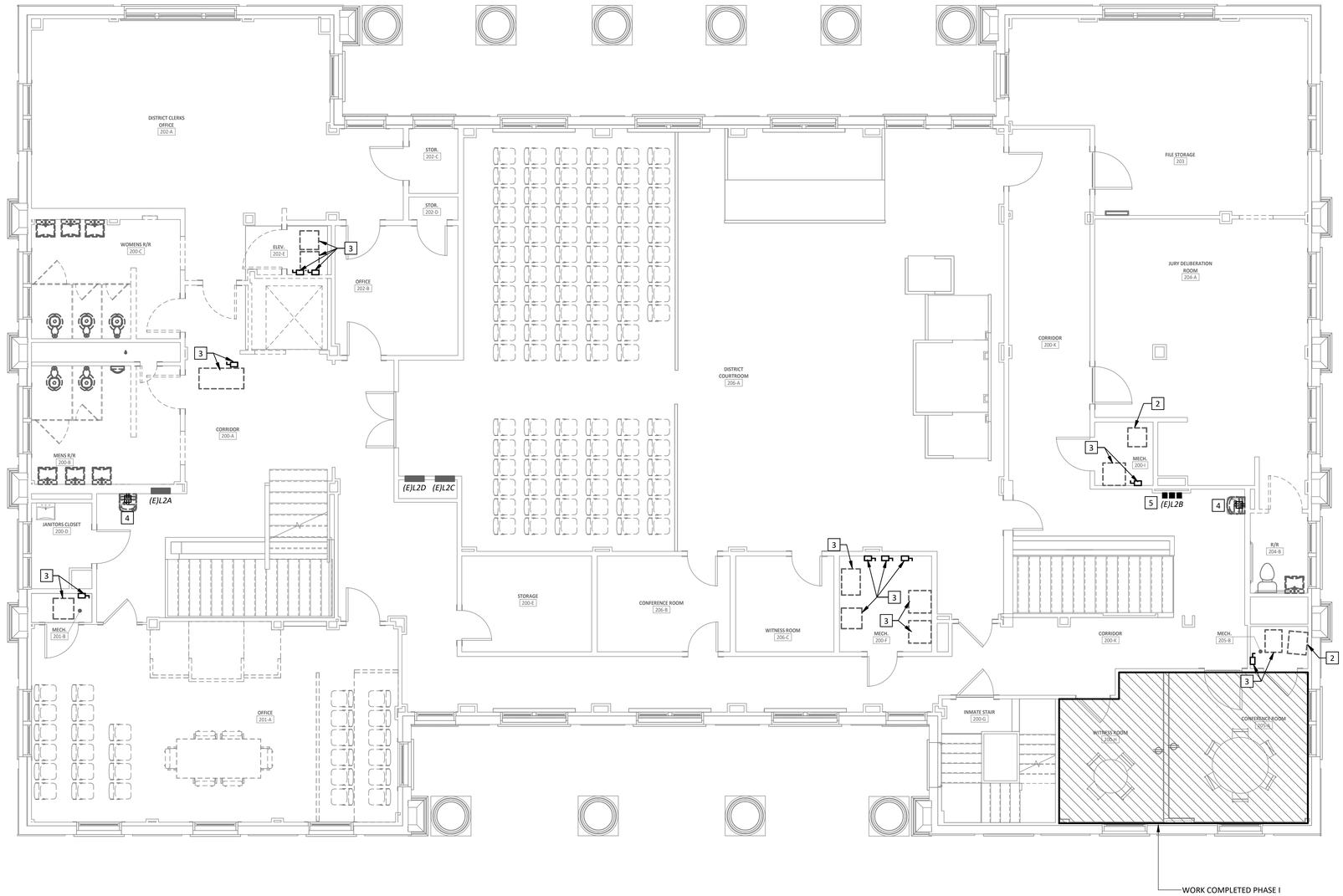

ELECTRICAL DEMOLITION KEYED NOTES:

1. DISCONNECT ELECTRICAL CIRCUIT FROM MECHANICAL UNIT(S) BEING REMOVED UNDER MECHANICAL WORK. RETAIN AND TAG CIRCUIT FOR FUTURE REUSE.
2. DISCONNECT AND REMOVE EXISTING ELECTRICAL CIRCUIT FROM EXISTING HUMIDIFIER BEING REMOVED UNDER MECHANICAL WORK.
3. DISCONNECT AND REMOVE EXISTING ELECTRICAL CIRCUIT AND DISCONNECT FROM MECHANICAL UNIT(S) BEING REMOVED UNDER MECHANICAL WORK.
4. DISCONNECT AND REMOVE EXISTING OUTLET. RETAIN AND TAG CIRCUIT FOR FUTURE REUSE.
5. DISCONNECT AND REMOVE EXISTING PANEL. EXISTING FEEDERS SHALL REMAIN FOR REUSE; SEE ELECTRICAL RISER DIAGRAM.

NORTH

1 SECOND FLOOR POWER PLAN - DEMOLITION

Electrical 3/16" = 1'-0"

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR POWER PLAN - DEMOLITION

PROJECT NO: 2308 A1

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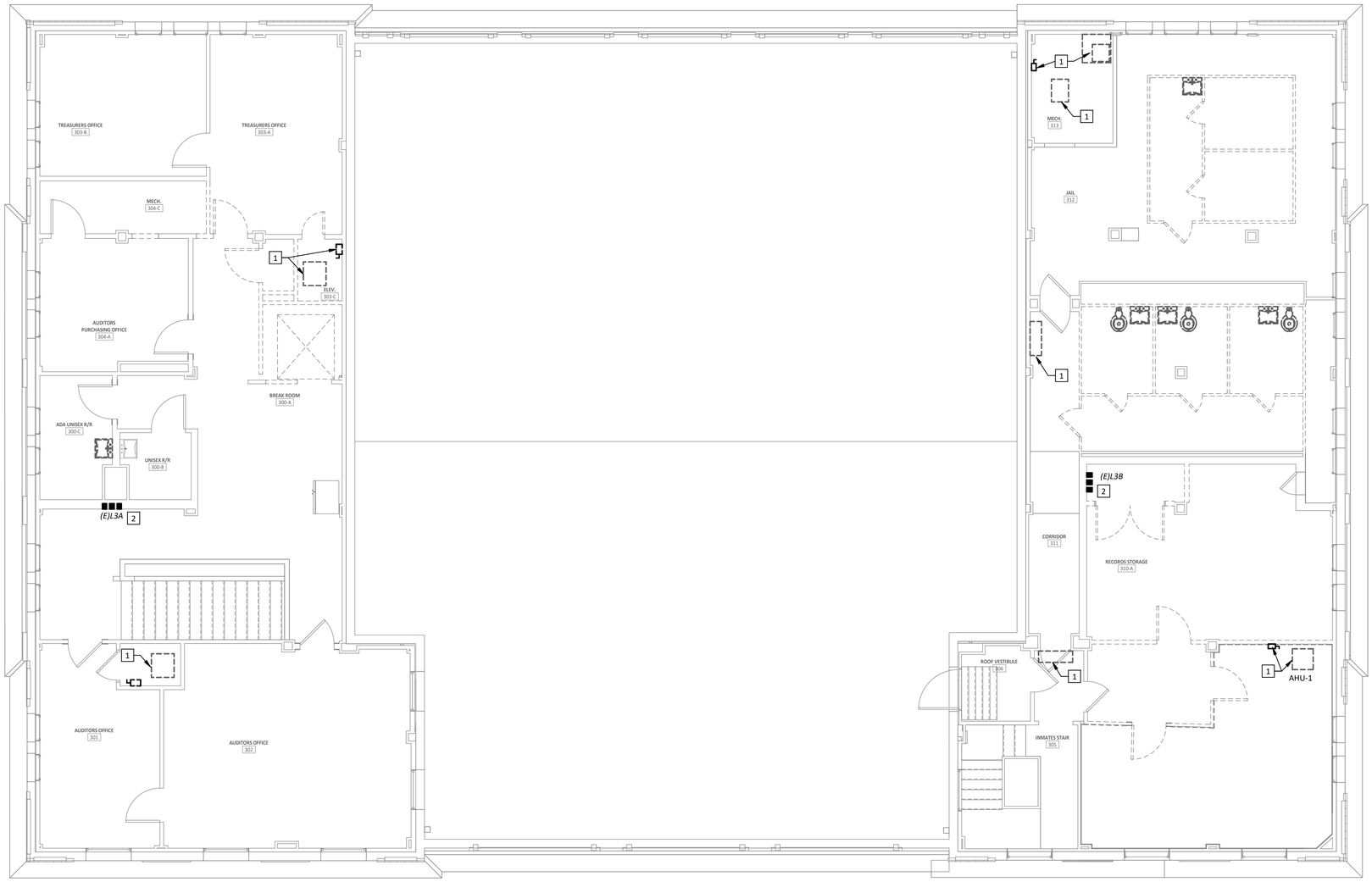

ELECTRICAL DEMOLITION KEYED NOTES:

1. DISCONNECT AND REMOVE EXISTING ELECTRICAL CIRCUIT AND DISCONNECT FROM MECHANICAL UNIT(S) BEING REMOVED UNDER MECHANICAL WORK.
2. DISCONNECT AND REMOVE EXISTING PANEL. EXISTING FEEDERS SHALL REMAIN FOR REUSE; SEE ELECTRICAL RISER DIAGRAM.

NORTH

1 THIRD FLOOR POWER PLAN - DEMOLITION

Electrical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR POWER PLAN - DEMOLITION

PROJECT NO: 2308 A1

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SHEET NO: ED-204

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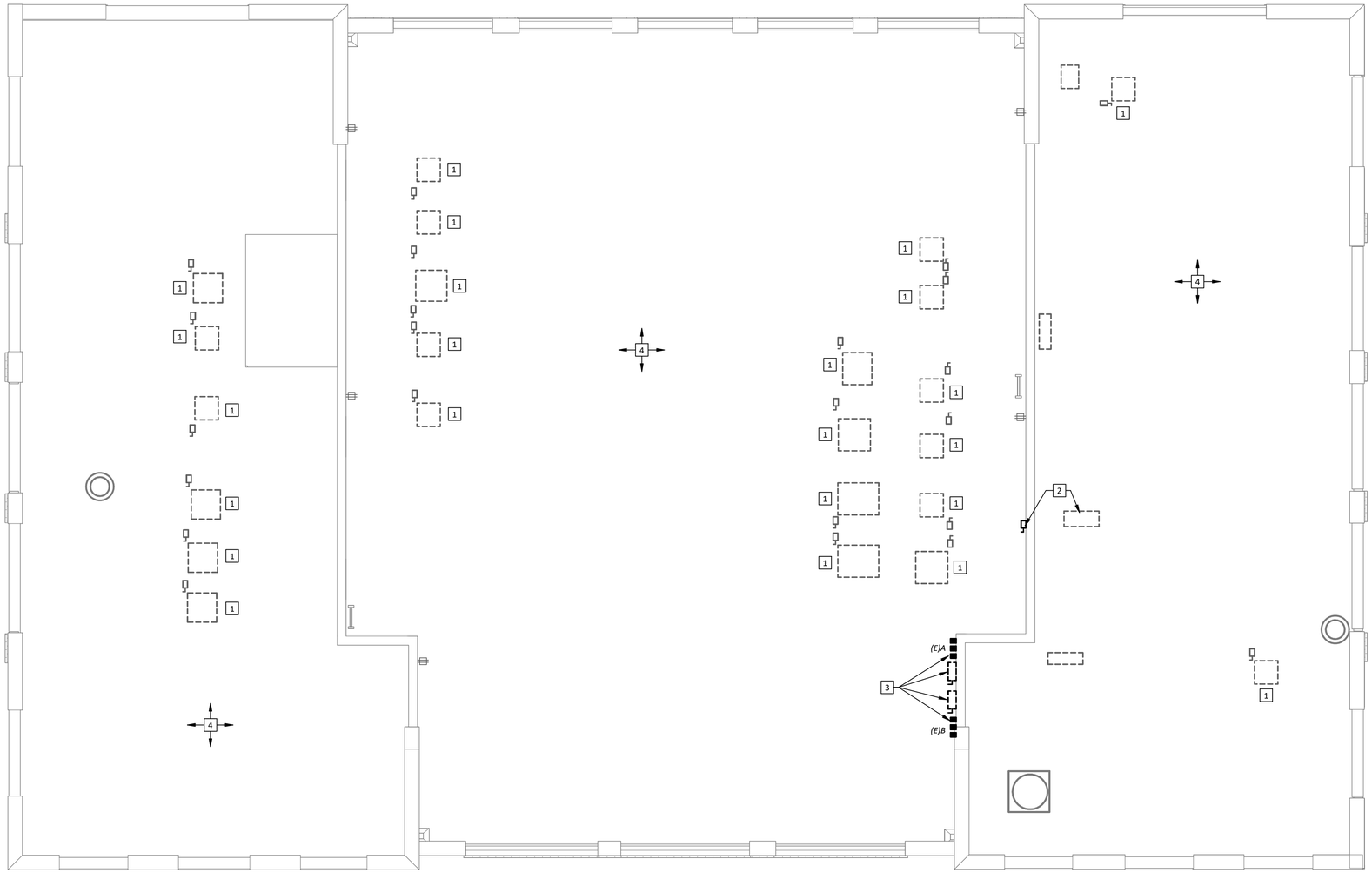

ELECTRICAL DEMOLITION KEYED NOTES:

1. DISCONNECT CIRCUIT TO EXISTING CONDENSING UNIT(S) BEING REMOVED UNDER MECHANICAL WORK. TAG AND RETAIN CIRCUIT FOR REUSE WITH NEW EQUIPMENT AS REQUIRED. REMOVE WIRE AND CONDUIT BACK TO PANEL.
2. REMOVE EXISTING CIRCUIT AND DISCONNECT TO EXISTING MINI-SPLIT BEING REMOVED UNDER MECHANICAL WORK. REMOVE WIRE AND CONDUIT BACK TO PANEL.
3. REMOVE EXISTING PANEL AND DISCONNECT.
4. REMOVE ALL EXISTING HVAC RELATED ROOF CONDUITS AND CONDUIT SUPPORTS.

NORTH

1 ROOF POWER PLAN - DEMOLITION
Electrical 3/16" = 1'-0"

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ROOF POWER PLAN - DEMOLITION

PROJECT NO: 2308 A1

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GENERAL CONSTRUCTION AND DEMOLITION NOTES:

1. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO CRITICALLY EXAMINE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS, AND TO VERIFY EXACT LOCATIONS, SIZES AND QUANTITY AF ITEMS WHICH ARE TO BE REMOVED, RELOCATED, AND ADDED. SUBMITTAL OF HIS BID SHALL SIGNIFY HIS WILLINGNESS TO COMPLY WITH THE OWNER'S REQUIREMENTS; DESIGN AND SPECIFICATION; AND HIS ACCEPTANCE OF ON-SITE CONDITIONS AS THEY EXIST.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE EXISTING FACILITIES AND SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING SUCH LOSS OR DAMAGE. THE CONTRACTOR SHALL SEND PROPER NOTICES AND RECEIVE WRITTEN PERMISSION FROM THE OWNER TO ENTER EXISTING AREAS. BEFORE BEGINNING WORK IN EXISTING AREAS, THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS AND PERFORM OTHER SERVICES REQUIRED FOR THE CARE, PROTECTION, AND IN SERVICE MAINTENANCE OF ALL ELECTRICAL, COMMUNICATION, PLUMBING, HEATING, AIR CONDITIONING, AND VENTILATING SERVICES FOR NEW AND EXISTING FACILITIES. THE CONTRACTOR SHALL ERECT TEMPORARY BARRICADES WITH NECESSARY SAFETY DEVICES, TO PROTECT PERSONNEL FROM INJURY, REMOVING ALL SUCH TEMPORARY PROTECTION UPON COMPLETION OF THE WORK.

3. THE CONTRACTOR SHALL PROVIDE TEMPORARY OR NEW SERVICES TO EXISTING FACILITIES AS REQUIRED TO MAINTAIN THEIR PROPER OPERATION WHEN NORMAL SERVICES ARE DISRUPTED AS A RESULT OF THE WORK BEING ACCOMPLISHED UNDER THIS PROJECT.

4. WHERE EXISTING CONSTRUCTION IS REMOVED TO PROVIDE WORKING AND EXTENSION ACCESS TO EXISTING UTILITIES, THE CONTRACTOR SHALL REMOVE DOORS, PIPING, CONDUIT, OUTLET BOXES, WIRING LIGHT FIXTURES, AIR CONDITIONING DUCTWORK, AND EQUIPMENT, ETC. TO PROVIDE THIS ACCESS AND SHALL REINSTALL SAME UPON COMPLETION OF WORK.

5. WHERE PARTITIONS, WALLS, FLOORS, OR CEILINGS OF EXISTING CONSTRUCTION ARE INDICATED TO BE REMOVED, THE CONTRACTOR SHALL REMOVE AND REINSTALL IN LOCATIONS APPROVED BY THE ENGINEER OR OWNER'S REPRESENTATIVE, ALL DEVICES REQUIRED FOR THE OPERATION OF THE ELECTRICAL SYSTEMS INSTALLED IN THE EXISTING CONSTRUCTION. THIS IS TO INCLUDE BUT IS NOT LIMITED TO, TEMPERATURE CONTROL SYSTEM DEVICES, ELECTRICAL SWITCHES, RELAYS, FIXTURES, PIPING, CONDUIT, SECURITY, ETC.

6. THE CONTRACTOR SHALL MODIFY, REMOVE, AND RELOCATE ALL MATERIALS AND ITEMS SO INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW FACILITIES. ALL REMOVALS AND/OR DISMANTLING SHALL BE CONDUCTED IN A MANNER AS TO PRODUCE MAXIMUM SALVAGE. MATERIALS AND ITEMS SCHEDULED FOR RELOCATION AND WHICH ARE DAMAGED DURING DISMANTLING OF REASSEMBLY OPERATIONS SHALL BE REPAIRED AND RESTORED TO THE APPROVAL OF THE OWNER, NATIONAL & LOCAL AGENCIES. THE CONTRACTOR MAY SUBSTITUTE NEW MATERIALS AND ITEMS OF LIKE DESIGN AND QUALITY IN LIEU OF MATERIALS AND ITEMS TO BE RELOCATED, IF APPROVED BY THE OWNER.

7. ALL ITEMS WHICH ARE TO BE RELOCATED SHALL BE CAREFULLY REMOVED IN REVERSE TO ORIGINAL ASSEMBLY OR PLACEMENT AND PROTECTED UNTIL RELOCATED. THE CONTRACTOR SHALL CLEAN, REPAIR AND PROVIDE ALL NEW MATERIALS, FITTINGS, AND APPURTENANCES REQUIRED TO COMPLETE THE RELOCATION AND TO RESTORE THE ITEMS TO GOOD OPERATIVE ORDER. ALL RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE WORK AND IN ACCORDANCE WITH STANDARD PRACTICE OF THE TRADES INVOLVED.

8. FEEDERS AND WIRING TO ITEMS TO BE REMOVED, SALVAGED, OR RELOCATED SHALL BE REMOVED TO POINTS AS INSTRUCTED ON THE DRAWINGS, SPECIFIED, OR ACCEPTABLE TO THE OWNER. FEEDERS AND WIRING NOT SCHEDULED FOR REUSE SHALL BE REMOVED TO THE POINTS AT WHICH REUSE IS TO BE CONTINUED OR SERVICE IS TO REMAIN. SUCH SERVICES SHALL BE SEALED, CAPPED, OR OTHERWISE TIED OFF OR CONNECTED INTO THE EXISTING FACILITIES IN SUCH A MANNER AS TO RESULT IN MINIMUM INTERRUPTION OF SERVICES TO ADJACENT OCCUPIED AREAS. SERVICES TO EXISTING AREAS OR FACILITIES WHICH MUST REMAIN IN OPERATION DURING THE CONSTRUCTION PERIOD SHALL NOT BE INTERRUPTED WITHOUT PRIOR SPECIFIC WRITTEN APPROVAL OF THE OWNER.

9. SALVAGE ITEMS AND MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER AND AS PART OF THIS CONTRACT, THE CONTRACTOR SHALL DELIVER THE ITEMS THE OWNER WISHES TO KEEP TO A DESTINATION AS DIRECTED BY THE OWNER. ALL OTHER ITEMS NOT REQUESTED BY THE OWNER SHALL BE DISPOSED OF WITH PRIOR VERIFICATION OF THE OWNER.

10. GENERALLY, NEW TELEPHONE/DATA OUTLETS SHALL BE LOCATED ADJACENT TO NEW OR EXISTING DUPLEX RECEPTACLES AS APPLICABLE.

11. WHERE EXTENSION OF AN EXISTING CIRCUIT IS REQUIRED, CONDUIT AND WIRE SHALL BE EXTENDED FROM THE ITEM'S EXISTING LOCATION TO ITS NEW LOCATION. CONDUIT SHALL BE ROUTED CONCEALED SO AS NOT TO INTERFERE WITH THE USE, OR MAR THE AESTHETICS OF THE AREA.

12. ITEMS OF EQUIPMENT, RECEPTACLES, LIGHT FIXTURES, MOTORS, ETC., SHOWN TO BE REMOVED SHALL HAVE ITS ASSOCIATED CIRCUITRY REMOVED BACK TO THE PROTECTIVE DEVICE IN THE PANEL, SWITCHBOARD, ETC., EXCEPT AS OTHERWISE MENTIONED BY NOTE 13.

A. ASSOCIATED CIRCUITRY SHALL BE DEFINED TO INCLUDE ALL CONDUIT, CONDUCTORS, BOXES, WIRING DEVICES, COVERPLATES LAMPS, FIXTURES, WIREWAYS, SWITCHES, STARTERS, ETC., WHICH ARE ASSOCIATED WITH THE ITEM SHOWN TO BE REMOVED.

B. THE PROTECTIVE DEVICE SHALL REMAIN AS AN INTEGRAL PART OF THE EXISTING PANEL, SWITCHBOARD, ETC., AND SHALL BE LABELED AS A SPARE OR BE USED FOR NEW CIRCUITRY AS SHOWN OR REQUIRED.

C. WHERE CONDUIT, ASSOCIATED WITH AN ITEM INDICATED TO BE REMOVED, IS IN AN INACCESSIBLE AREA, SUCH AS ENCASED IN CONCRETE, THIS INACCESSIBLE CONDUIT ONLY SHALL BE ABANDONED IN PLACE. ALL CONDUCTORS SHALL BE REMOVED, THE CONDUIT SHALL BE SEALED, CAPPED OR OTHERWISE TERMINATED IN A SAFE MANNER ACCEPTABLE TO THE OWNER, OR AS OTHERWISE STATED IN ITEM 12D BELOW.

D. WHERE SUCH INACCESSIBLE CONDUIT ENDS OR MUST BE TERMINATED IN FINISHED SPACE, THE CONDUIT OR J-BOX SHALL BE REMOVED TO BELOW THE SURFACE OF FINISHED SURFACE OF WALL, CEILING OR FLOOR. THE VOID SHALL BE FILLED WITH NON-SHRINKING GROUT, THEN RESURFACED AND REFINISHED TO MATCH SURROUNDING SURFACES. CONDUIT BELOW GRADE SHALL BE TERMINATED 12" BELOW FINISH GRADE AND ABANDONED IN PLACE.

GENERAL CONSTRUCTION AND DEMOLITION NOTES: (CONTINUED)

13. WHERE ONLY A PORTION OF A CIRCUIT'S LOAD IS INDICATED TO BE REMOVED, ONLY THAT PORTION ASSOCIATED WITH THE REMOVED DEVICE SHALL BE REMOVED TO A POINT WHERE THE REMAINING LOAD IS ACTIVE AND IN A GOOD OPERATING CONDITION.

14. CIRCUITS NOT INDICATED OR NOT INDICATED TO BE REMOVED SHALL REMAIN IN SERVICE EXCEPT:

A. CIRCUITS IN WALLS AND PARTITIONS BEING REMOVED SHALL BE REMOVED.

B. CIRCUITS WHICH INTERFERE WITH THE INSTALLATION OF NEW PARTITIONS SHALL BE RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW PARTITIONING.

C. OUTLETS AND CIRCUITRY SERVING FACILITIES OR EQUIPMENT TO BE REMOVED SHALL BE REMOVED.

D. WHERE WIRING SERVING FACILITIES TO REMAIN PASSES THRU REMOVED OUTLETS, REUSE OUTLET BOX IN PLACE AS A JUNCTION BOX OR RELOCATE WIRING AS REQUIRED. ROUTE ALL CONDUIT AND CONDUCTORS CONCEALED IN BUILDING CONSTRUCTION, WHERE POSSIBLE.

E. REMOVE ASSOCIATED ELECTRICAL CIRCUITS INCLUDING CONDUIT AND CONDUCTORS SERVING EQUIPMENT BEING REMOVED.

15. WHERE PARTITION REMOVAL EXPOSES CIRCUITS TO REMAIN OR SERVICE TO FACILITIES WHICH REMAIN, RELOCATE OR RE-ROUTE CIRCUITS OR SERVICES AS ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

16. PROVIDE NEW PANELBOARD DIRECTORIES FOR ALL THE EXISTING PANELBOARDS, IMPACTED BY THIS PROJECT WORK SCOPE, WHETHER SHOWN ON THE DRAWINGS OR NOT, WHICH SHALL REFLECT ALL THE NEW NUMBERS ASSIGNED TO ROOMS BY THIS PROJECT.

17. WHERE CONDUIT AND CONDUCTORS ARE INDICATED TO BE REMOVED, CONDUIT SHALL BE REMOVED TO POINT OF CONCEALMENT AND WIRING REMOVED ENTIRELY. PROVIDE BLANK COVERPLATES WHERE REQUIRED.

18. TEST EXISTING INTERCOM AND FIRE ALARM DEVICES TO DOCUMENT PROPER OPERATION PRIOR TO COMMENCING WITH DEMOLITION WORK. SUBMIT DOCUMENTATION OF SYSTEM DEFICIENCIES TO THE A/E PRIOR TO COMMENCING WITH DEMOLITION WORK.

GENERAL LIGHTING CONTROL NOTES:

1. ALL OCCUPANCY/VACANCY/ SENSORS SHALL INCLUDE MANUAL ON/OFF CONTROL FUNCTION. SENSORS SHALL BE SET TO ALLOW OCCUPANTS TO MANUALLY TURN ON LIGHTS WHEN ENTERING A SPACE.

2. SET TIMER FUNCTION TO "20 MINUTES"(MAX) PER IECC AND SENSITIVITY TO "50%"ON ALL MANUALLY ADJUSTABLE OCCUPANCY/VACANCY SENSOR DEVICES UNLESS OTHERWISE NOTED.

3. OCCUPANCY/VACANCY SENSORS SHALL BE SET TO AUTOMATICALLY TURN OFF GENERAL LIGHTING WITHIN 20 MINUTES OF OCCUPANT LEAVING THE SPACE.

4. CEILING MOUNTED OCCUPANCY/VACANCY SENSORS SHALL BE INSTALLED CENTERED IN THE CEILING TILE (WHERE APPLICABLE).

5. ULTRASONIC TYPE CEILING MOUNTED OCCUPANCY/VACANCY SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN DIFFUSERS.

6. OCCUPANCY/VACANCY SENSORS MOUNTED NEAR ENTRY DOORS SHALL BE PLACED ONE (1) FOOT INSIDE THE THRESHOLD.

AUDIO-VISUAL ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL REVIEW ALL AUDIO-VISUAL DOCUMENTS PROVIDED BY BAI FOR ADDITIONAL ITEMS REQUIRED FOR THIS PROJECT PRIOR TO SUBMITTING BID.

2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER, TECHNICAL POWER, LIGHTING, TELEPHONE, DATA, AUDIO-VISUAL, ETC. CONDUITS AND BOXES UNLESS OTHERWISE NOTED. DO NOT ASSUME AV CONTRACTOR/ OWNER WILL PROVIDE BOXES OR CONDUIT. ALL EMPTY CONDUITS SHALL HAVE PULL-STRINGS INSTALLED.

3. PROVIDE ALL LINE VOLTAGE WIRING AND TERMINATIONS AT EQUIPMENT FURNISHED BY AV CONTRACTOR/OWNER. COORDINATE EXACT LOCATION OF AV RELATED EQUIPMENT, CONTROL STATIONS, FLOOR POCKETS, ETC. WITH SHOP DRAWINGS PROVIDED BY AV CONTRACTOR/OWNER.

4. NEUTRALS AND GROUNDS FOR AUDIO-VISUAL BRANCH CIRCUITS SHALL NOT BE SHARED. PULL A SEPARATE NEUTRAL, GROUND AND ISOLATED GROUND (IF REQUIRED) FOR EACH AUDIO-VISUAL BRANCH CIRCUIT.

5. ALL CONDUIT SHALL BE ELECTRICALLY CONTINUOUS BUT SHALL NOT BE USED AS THE SOLE GROUNDING SOURCE. PROVIDE A SEPARATE INSULATED GROUND CONDUCTOR IN EACH CONDUIT.

6. REFER TO AUDIO-VISUAL SYSTEM SHEETS FOR ADDITIONAL ITEMS REQUIRED IN THE SCOPE OF THIS PROJECT. PROVIDE ALL CONDUIT, PULL STRING, BACK BOXES, LINE VOLTAGE WIRING, TERMINATIONS, ETC. AT EQUIPMENT PROVIDED BY OTHER TRADES. COORDINATE EXACT LOCATION WITH OTHER TRADES ON SITE.

7. PAINT ALL EXPOSED CONDUITS, BOXES, STRAPS, ETC. PER ARCHITECTURAL PLANS.

GENERAL ELECTRICAL NOTES FOR HISTORICAL BUILDING:

1. BUILDING IS A HISTORIC STRUCTURE. CARE MUST BE EXERCISED IN EQUIPMENT AND MATERIAL PLACEMENT IN AND AROUND THE FACILITY TO ENSURE ACCEPTABLE APPEARANCE TO THE ARCHITECT AND STATE OF TEXAS HISTORICAL COMMISSION. ALL EQUIPMENT, MATERIALS AND INSTALLATION WORKMANSHIP MUST MEET FINAL APPROVAL OF ARCHITECT AND STATE OF TEXAS HISTORICAL COMMISSION.

2. DO NOT CUT OR DRILL ANY FURNITURE OR MILLWORK ITEMS DEEMED HISTORICAL WITHOUT PRIOR ARCHITECT'S APPROVAL. SITE VERIFY ALL HISTORICAL ITEMS WITH ARCHITECT.

3. ALL ROUTING OF CONDUITS AND LOCATION OF J-BOXES SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. APPROVAL CAN BE OBTAINED EITHER BY SHOP DRAWINGS OR BY COORDINATION AT REGULAR CONSTRUCTION SITE MEETINGS BETWEEN ARCHITECT AND CONTRACTOR.

4. J-BOXES SHALL BE LOCATED IN AREAS NOT SUBJECT TO VIEW TO THE MAXIMUM EXTENT POSSIBLE, SUCH AS MECHANICAL ROOMS, STORAGE ROOMS, ETC. WHERE UNAVOIDABLE, RECESSED 4"X4" J-BOXES IN SHEET ROCK CEILINGS ARE ACCEPTABLE, PROVIDED FINISHED COVER PLATES ARE USED. FINISHED COVER PLATES TO HAVE BEVELED EDGES, COUNTERSUNK SCREW HOLES, AND FINISH TYPE SCREWS. FINISHED COVER PLATES SHALL BE FIELD PAINTED TO MATCH CEILING. FLAT OR UNFINISHED COVER PLATES ARE NOT ACCEPTABLE.

5. CONTRACTOR SHALL COMBINE BRANCH CIRCUITS IN SINGLE CONDUITS AS FEASIBLE TO MINIMIZE THE NUMBER OF EXPOSED CONDUITS AND J-BOXES. DERATING OF CIRCUIT AMPACITY SHALL BE AVOIDED BY UTILIZING #10 WIRE AND 90 DEG C INSULATION.

6. ALL SPECIAL SYSTEMS CABLE SHALL BE IN CONDUIT WITHIN PROJECT AREA TO FACILITATE REPLACEMENT OR UPGRADE OF CABLES IN THE FUTURE. THE SAME RESTRICTIONS APPLY TO THESE CONDUITS AND J-BOXERS AS DESCRIBED ABOVE FOR LIGHTING AND POWER CIRCUITS.

7. SOME OF THE EXISTING WALLS ARE MASONRY. CONDUITS AND BOXES REQUIRED FOR POWER AND SIGNAL RECEPTACLES IN THESE WALLS SHALL BE RECESSED INTO THEN MASONRY WALLS DEEP ENOUGH TO ALLOW FINISH PLASTER TO COVER THE CONDUIT.

GENERAL FIRE ALARM NOTES:

1. THE EXISTING FIRE ALARM SYSTEM IS A NOTIFIER SYSTEM LOCATED IN THE CORRIDOR OF THE FIRST FLOOR. THE WORK COVERED BY THIS PROJECT INCLUDES THE FURNISHING OF ALL DESIGN, LABOR, EQUIPMENT, MATERIALS, AND PERFORMANCE OF ALL OPERATIONS IN CONNECTION WITH THE DESIGN AND INSTALLATION OF ALL NEW ADDRESSABLE INITIATION AND NOTIFICATION FIRE ALARM SYSTEM REQUIRED TO PROVIDE A COMPLETE FIRE ALARM SYSTEM.

2. DESIGN, DEVICES, COMPONENTS, AND INSTALLATION NECESSARY FOR THIS PROJECT ARE TO CONFORM TO THE APPLICABLE SECTION OF NFPA-72, NFPA-90A, NFPA 101, INTERNATIONAL FIRE CODE, LOCAL CODE AMENDMENTS, AND NATIONAL ELECTRICAL CODE WITH PARTICULAR ATTENTION TO ARTICLE 760.

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE COMPLETE SET OF PLANS TO THE FIRE ALARM CONTRACTOR PRIOR TO BID. THE FIRE ALARM CONTRACTOR SHALL VERIFY THAT HIS DESIGN MEETS ALL CODES AND COMPLIES WITH ALL CITY REQUIREMENTS. ALARM AND SIGNAL DEVICE PLACEMENT SHOWN ON PLANS IS FOR INFORMATIONAL PURPOSES ONLY; FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTITY AND LOCATION. FAILURE TO DO SO SHALL NOT BE JUSTIFICATION FOR THE OWNER TO INCUR EXTRA EXPENSES.

4. THE FIRE ALARM CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS FOR THE MECHANICAL AND ELECTRICAL EQUIPMENT CONTROLS. PROVIDE DUCT DETECTORS AND COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. PROVIDE REMOTE TEST STATIONS WHERE INSTALLATION WARRANTS.

5. EACH AND ALL ITEMS OF THE FIRE ALARM SYSTEM SHALL BE LISTED AS A PRODUCT OF A SINGLE FIRE ALARM SYSTEM MANUFACTURER UNDER THE APPROPRIATE CATEGORY BY UNDERWRITERS' LABORATORIES, INC. (UL) AND SHALL BEAR THE "U.L." LABEL. ALL CONTROL EQUIPMENT IS TO BE LISTED UNDER U.L. AS A SINGLE CONTROL UNIT. PARTIAL LISTING SHALL NOT BE ACCEPTABLE.

6. THE EQUIPMENT AND INSTALLATION FURNISHED UNDER THIS PROJECT SHALL BE PROVIDED BY A MANUFACTURER WHO HAS BEEN ENGAGED IN PRODUCTION OF THE TYPE (SOFTWARE DRIVEN) OF EQUIPMENT FOR AT LEAST FIVE (5) YEARS, AND HAS A FULLY EQUIPPED SERVICE ORGANIZATION WITHIN FIFTY (50) MILES OF THE INSTALLATION.

7. ALL CONTROL EQUIPMENT MUST HAVE TRANSIENT PROTECTION DEVICES TO COMPLY WITH UL864 REQUIREMENTS.

8. THE COMPLETED FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA-72 BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE LOCAL FIRE MARSHAL. UPON COMPLETION OF A SUCCESSFUL TEST THE CONTRACTOR SHALL SO CERTIFY IN WRITING TO THE OWNER AND GENERAL CONTRACTOR.

9. THE BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND SHALL FULLY INFORM HIMSELF REGARDING THE FACILITIES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK OR MATERIAL OMITTED FROM BIDDER'S CONTRACT PROPOSAL DUE TO HIS FAILURE TO SO INFORM HIMSELF BY SUCH INVESTIGATION.

10. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL DRAWINGS, OTHER TRADES, AND VERIFY LOCATION OF ALL EQUIPMENT WITH OWNER OR ARCHITECT BEFORE CONSTRUCTION. FAILURE TO DO SO SHALL RESULT IN MOVING EQUIPMENT AT NO COST TO OWNER.

11. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE TO THE SATISFACTION OF THE OWNER, ARCHITECT, AND ENGINEER, ANY UTILITIES, MATERIALS, EQUIPMENT, WALLS, FOUNDATIONS, INSTALLATION, DAMAGED BY REMOVAL OR ACCIDENT. CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND EQUIPMENT PRIOR TO ANY EXCAVATIONS. ALL STRUCTURAL PENETRATIONS SHALL BE SEALED IN SUCH A MANNER AS TO EQUAL OR EXCEED THE ORIGINAL STRUCTURAL CHARACTERISTICS, INCLUDING FIRE RATINGS AND WEATHERPROOFING.

12. COORDINATE SPECIFIC SHUTDOWN PROCEDURES WITH OWNER, SUCH AS AIR HANDLER SHUTDOWN BY DUCT SMOKE DETECTOR OR GENERAL ALARM.

13. ALL FIRE ALARM CABLES SHALL BE INSTALLED IN CONDUIT, EITHER EMT IN CONCEALED AREAS OR WIREMOLD IN AREAS SUBJECT TO VIEW.

ABBREVIATIONS

A - AMPERE(S)
AIC - AMPERAGE INTERRUPTING CAPACITY
A/V - AUDIO VISUAL
AFF - ABOVE FINISH FLOOR
AFG - ABOVE FINISH GRADE
AHU - AIR HANDLING UNIT
ATS - AUTOMATIC TRANSFER SWITCH

BLDG - BUILDING

C - CONDUIT
CB - ENCLOSED CIRCUIT BREAKER
CKT - CIRCUIT

EDF - ELECTRIC DRINKING FOUNTAIN
EPO - EMERGENCY POWER OFF

FLA - FULL LOAD AMPS
FSD - FIRE SMOKE DAMPER

GFCI - GROUND-FAULT CIRCUIT INTERRUPTER
GND - GROUND

HOA - HAND-OFF-AUTOMATIC
HP - HORSEPOWER

IG - ISOLATED GROUND

J-BOX - JUNCTION BOX

KVA - KILOVOLT AMPERE
KW - KILOWATT

MCB - MAIN CIRCUIT BREAKER
MCC - MOTOR CONTROL CENTER
MLO - MAIN LUGS ONLY
MTD - MOUNTED

N/A - NOT APPLICABLE
NC - NORMALLY CLOSED
NO - NORMALLY OPEN
NF - NON FUSED
N.I.C. - NOT IN CONTRACT
NL - NIGHT LIGHT (UNSWITCHED)
NTS - NOT TO SCALE

OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OH - OVERHEAD

PB - PUSHBUTTON
PH, Ø - PHASE

RCPT - RECEPTACLE

SPD - SURGE PROTECTION DEVICE
SWBD - SWITCHBOARD

TC - TIMECLOCK
TV - TELEVISION
TYP. - TYPICAL

UG - UNDERGROUND

V - VOLTAGE

W.G. - WIREGUARD
W.P. - WEATHERPROOF

XFMR - TRANSFORMER

1P - ONE POLE
2P - TWO POLE
3P - THREE POLE

ELECTRICAL SYMBOLS LEGEND

MARK	ITEM
(a) A	LIGHT FIXTURE, LETTER(S) IDENTIFIES FIXTURE IN SCHEDULE (2)
E E	LIGHTING FIXTURE. BRACKET " ⊢ " INDICATES WALL MOUNTED. LETTER(S) IDENTIFIES FIXTURE IN SCHEDULE
	EXIT SIGN LIGHT FIXTURE (1)
	LIGHT FIXTURE WITH EMERGENCY BATTERY PACK
(N)	LIGHT FIXTURE CONNECTED TO UNSWITCHED PORTION OF CIRCUIT FOR NIGHT LIGHTING
	LED EMERGENCY LIGHT/EXIT COMBO
S	SINGLE-POLE DECORA ROCKER LIGHT SWITCH
S_{3K}	SWITCH, THREE-WAY (K=KEYED OPERATED)
S_{LV}	LOW VOLTAGE SWITCH
S_D	DIMMER SWITCH, ACUITY BRANDS #SPODMA D SA X OR EQUAL
S_{D1}	DIMMER SWITCH WITH OCCUPANCY SENSOR, ACUITY BRANDS #WSXA MWO PDT D SA X OR EQUAL
S_{D3}	DIMMER SWITCH, THREE-WAY, ACUITY BRANDS #SPODMA D SA 3X X OR EQUAL
S_M	MOTOR SWITCH
S_O	SWITCH, DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR, MODEL # WSXA PDT SA X OR EQUAL
(OS)	DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, MODEL #CM PDT 10
	BATTERY OPERATED EMERGENCY LIGHT FIXTURE
A	RECEPTACLE, DUPLEX (A=ABOVE COUNTER)
IG	RECEPTACLE, DUPLEX W/ ISOLATED GROUND (A=ABOVE COUNTER)
C	RECEPTACLE, DUPLEX CORRIDOR SEE SPECIFICATIONS SERVE WITH #10 CONDUCTORS MIN.
IG	FLOOR BOX RECEPTACLE, DUPLEX W/ ISOLATED GROUND
A	RECEPTACLE, G.F.C.I. DUPLEX (A=ABOVE COUNTER)
W.P.	RECEPTACLE, WEATHERPROOF
R	EMERGENCY RECEPTACLE (RED DEVICE WITH RED FACEPLATE)
A	RECEPTACLE, QUADRUPLEX (A=ABOVE COUNTER)
IG	RECEPTACLE, QUADRUPLEX W/ ISOLATED GROUND (A=ABOVE COUNTER)
	SIMPLEX RECEPTACLE
	RECEPTACLE DUPLEX MOUNTED IN OUTLET BOX IN BASE OF PROJECTOR CEILING TRAY
	ELECTRICAL POWER CONNECTION
G	GROUND BAR AS NOTED ON DRAWING AND SPECIFICATIONS
PB	PANELBOARD, 120/208 VOLT (LETTERS IDENTIFY PANEL)
HB	PANELBOARD, 277/480 VOLT (LETTERS IDENTIFY PANEL)
T-LA	DRY TYPE TRANSFORMER. REFER TO TRANSFORMER SCHEDULE.
	DISCONNECT SWITCH
	JUNCTION BOX
(M)	MOTOR CONNECTION. REFER TO ELECTRICAL CONNECTION SCHEDULE
SPD	SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATIONS.

ELECTRICAL SYMBOL NOTES:

(1) SHADED PORTION & ARROW INDICATES SIDE ON WHICH LETTERING APPEARS & DIRECTION WHERE APPLICABLE. EXACT HEIGHT AND LOCATION OF ALL EXIT SIGNS SHALL BE DETERMINED BY ARCHITECT & BLDG. OFFICIAL ON THE SITE.

(2) OUTLETS WITH THE SAME "SMALL CASE" LETTER SHALL BE CONTROLLED BY THE SAME SWITCH.

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PROJECT NO.: 2023.044

STATE OF TEXAS
STEPHEN MITCHELL
99313
LICENSED PROFESSIONAL ENGINEER
02/23/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ELECTRICAL LEGEND & GENERAL NOTES

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: E-100

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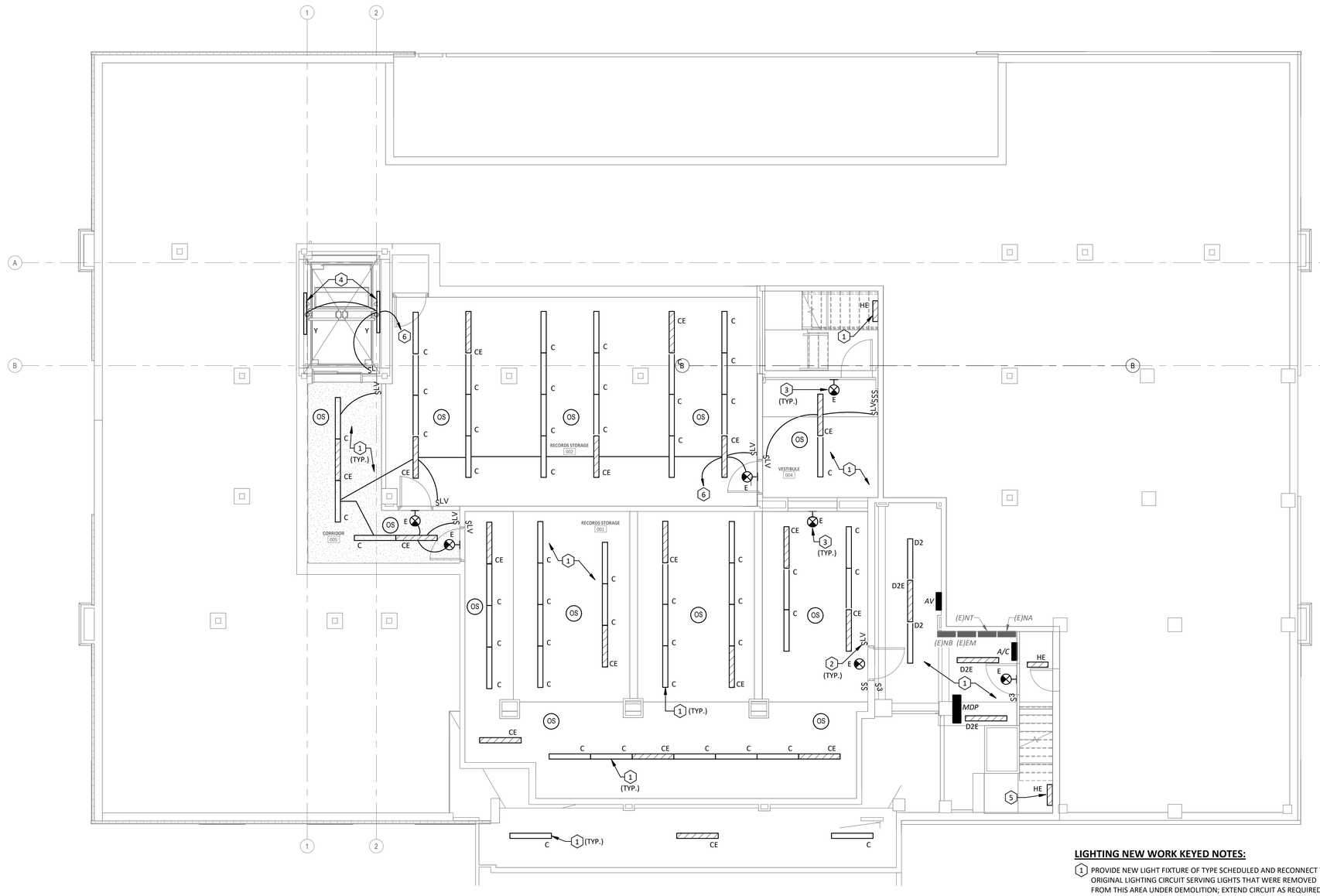

1 BASEMENT LIGHTING PLAN - NEW WORK

Electrical 3/16" = 1'-0"

NORTH

LIGHTING NEW WORK KEYED NOTES:

1. PROVIDE NEW LIGHT FIXTURE OF TYPE SCHEDULED AND RECONNECT TO ORIGINAL LIGHTING CIRCUIT SERVING LIGHTS THAT WERE REMOVED FROM THIS AREA UNDER DEMOLITION; EXTEND CIRCUIT AS REQUIRED. CONNECT LIGHTING TO NEW CONTROL SWITCH AND OCCUPANCY CONTROL MEANS SHOWN FOR THAT ROOM OR AREA.
2. INSTALL NEW LIGHTING CONTROL SWITCH OF INDICATED TYPE. WHERE EXISTING JUNCTION BOX AND CONDUIT RISER ARE PRESENT AT THIS LOCATION, REUSE FOR NEW SWITCH AND WIRING INSTALLATION. POSITION SWITCH TO MEET ADA REQUIREMENTS FOR HEIGHT AND CLEARANCES. VERIFY SECURE MOUNTING AND PROPER WIRING CONNECTIONS. ENSURE INSTALLATION COMPLIES WITH ALL APPLICABLE CODES AND STANDARDS.
3. CONNECT TYPE "E" EXIT SIGN TO UNSWITCHED PORTION OF CIRCUIT SERVING LIGHTING IN SAME ROOM OR AREA.
4. SURFACE MOUNT TYPE "Y" LIGHT FIXTURE ON WALLS OF ELEVATOR SHAFT APPROXIMATELY 36" A.F.F. COORDINATE FIXTURE LOCATIONS WITH ELEVATOR EQUIPMENT, STRUCTURE, ETC. AND LOCATE SO AS TO PROVIDE OPTIMUM ILLUMINATION FOR SERVICING OF ELEVATOR EQUIPMENT. CONNECT TO CIRCUIT INDICATED THRU LIGHT SWITCH WITH LIGHTED HANDLE. LOCATE LIGHT SWITCH APPROXIMATELY 48" ABOVE ELEVATOR SHAFT BASE AND POSITION IN AN EASILY ACCESSIBLE LOCATION ADJACENT TO ELEVATOR SHAFT ACCESS. REFER TO SHEET E-104 FOR ADDITIONAL LIGHTING AT TOP OF ELEVATOR SHAFT.
5. WALL MOUNT TYPE "HE" LIGHT FIXTURE APPROXIMATELY 8'-0" ABOVE STAIR LANDING AT THIS LOCATION. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. COORDINATE FINAL LOCATION WITH WALL FEATURES, DOORS, STAIRS, ETC. PRIOR TO ANY ROUGH-IN. CONNECT TO EXISTING UNSWITCHED PORTION OF CIRCUIT SERVING LIGHT FIXTURES REMOVED UNDER DEMOLITION IN THIS STAIRWELL.
6. CONNECT NEW CIRCUIT TO PANEL "NA". PROVIDE NEW 20A1P BREAKER IN EXISTING SPACE WITH 2#10, 1#10GND IN 3/4"C.

LIGHTING GENERAL NOTES (FOR ALL LIGHTING SHEETS):

1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXTERIOR LIGHT FIXTURE LOCATIONS.
2. AT ALL WALL MOUNTED EXTERIOR LIGHT FIXTURES, PROVIDE WEATHERTIGHT INSTALLATION BETWEEN JUNCTION BOX AND LIGHT FIXTURE. COORDINATE LOCATION OF LIGHT FIXTURE WITH ARCHITECTURAL FEATURES (DOORS, WINDOWS, CANOPIES, ETC.). VERIFY EXACT LOCATION PRIOR TO ANY ROUGH-IN.
3. ROOM CONTROLLERS SHALL BE LOCATED IN AN EASILY ACCESSIBLE LOCATION ADJACENT TO ENTRANCE OF ROOM OR AREA. FINAL LOCATION TO BE ACCEPTABLE TO THE ENGINEER.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT LOCATIONS/ELEVATIONS OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED ON THE ARCHITECTURAL RCP.
5. COORDINATE THE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR PLUMBING AND MECHANICAL EQUIPMENT. CONDUITS SHALL BE KEPT TIGHT TO STRUCTURE OR ROUTED THROUGH STRUCTURAL TRUSSES WHEREVER POSSIBLE.
6. COORDINATE PLACEMENT OF LIGHT FIXTURES WITH ACTUAL INSTALLATION OF ALL OTHER TRADES, PRIOR TO ROUGH-IN OF SUCH TRADES.
7. COORDINATE ROUGH-IN OF LIGHTING DEVICES WITH ARCHITECTURAL ELEVATIONS, SECTIONS AND DETAILS. INSTALL DEVICE BOXES FLUSH WITH FINISHED SURFACE.
8. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR ALL SINGLE PHASE CIRCUITS.
9. MINIMUM PHASE, NEUTRAL AND GROUND CONDUCTOR SIZES FOR LIGHTING CIRCUITS SHALL BE #10 CU.
10. ALL ABOVE-CEILING LOW VOLTAGE CONTROLS CABLING SHALL BEINSTALLED IN LISTED CONDUIT, IN ACCORDANCE WITH 2017 NEC ARTICLE 300.22 (C) (1).
11. FOR LOW VOLTAGE 0-10V LIGHTING CONTROL CABLING, PROVIDE TWISTED, SHIELDED PAIR, WITH SHIELD SOLIDLY GROUNDED AT THE SOURCE.
12. REFER TO SHEET E-301 FOR LIGHT FIXTURE SCHEDULE.
13. PROVIDE U.L. LISTED FIRE STOP SYSTEMS AT ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE RATED PARTITIONS. SEAL AROUND CONDUIT PENETRATIONS THROUGH NON-RATED PARTITIONS WITH JOINT COMPOUND OR GROUT. REFER TO ARCHITECTURAL SHEETS FOR FIRE-RATED PARTITIONS.
14. ALL CONDUIT AND LOW VOLTAGE WIRING IN AREAS WITH EXPOSED STRUCTURE, OR FLOATING CEILING CLOUD PANELS, SHALL BE RUN AS TIGHT AS POSSIBLE TO THE STRUCTURE ABOVE, CONCEALED FROM VIEW. DROPS TO LIGHT FIXTURES IN SUCH AREAS,WHERE REQUIRED, SHALL BE MADE FROM DIRECTLY ABOVE THE FIXTURE.
15. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH STRUCTURE. REFER TO ARCHITECTURAL SHEETS FOR FURTHER INFORMATION.
16. DO NOT INSTALL JUNCTION BOXES OR LIGHTING CONTROL MODULES, POWER PACKS,ETC. ABOVE INACCESSIBLE CEILINGS.
17. MAINTAIN MINIMUM 24" SEPARATION BETWEEN ALL LOW VOLTAGE CABLE PATHWAYS AND ELECTRICAL FEEDERS/BRANCH CIRCUITS, WHEREVER THEY ARE PARALLEL. FEEDERS/BRANCH CIRCUITS MAY CROSS PERPENDICULAR TO CABLE PATHWAY WITH MINIMUM 4" SEPARATION. COORDINATE WITH DIVISION 27 AND 28 PRIOR TO ROUGH-IN OF ELECTRICAL WORK.
18. THE DRAWINGS DEPICT AREAS THAT ARE REQUIRED TO BE CONTROLLED USING OCCUPANCY MOTION SENSORS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE LIGHTING CONTROLS SUPPLIER AND SELECT THE QUANTITY AND PLACEMENT OF DEVICES TO ACHIEVE COMPLETE SMALL MOTION COVERAGE, AND TO ACCOMPLISH THE INDICATED CONTROL SCHEME. ADDITIONAL DEVICES SHALL BE PROVIDED AS NECESSARY TO ACHIEVE COMPLETE COVERAGE. PLACEMENT OF OCCUPANCY MOTION SENSOR DEVICES AND AUXILIARIES SHALL BE COORDINATED WITH ALL OTHER CEILING AND WALL-MOUNTED DEVICES.
19. SENSING DEVICE LOCATIONS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC AND FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND ADJUSTING THE FINAL PLACEMENT OF ALL SENSING DEVICES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES. FINAL LOCATIONS SHALL ENSURE OPTIMAL FUNCTIONALITY, COVERAGE, AND PERFORMANCE. THE CONTRACTOR SHALL COORDINATE ADJUSTMENTS WITH THE DESIGN TEAM PRIOR TO INSTALLATION.
20. CONTRACTOR SHALL VERIFY AND COORDINATE FINAL FIXTURE LOCATIONS WITH ARCHITECTURAL PLANS TO ENSURE ALIGNMENT AND ACCURACY.

LIGHTING CONTROL SEQUENCE OF OPERATION (FOR ALL LIGHTING SHEETS)

PRIVATE OFFICES, CONFERENCE ROOMS, BREAK ROOMS & STORAGE ROOMS:
- a. ALL ROOMS TO HAVE A MANUAL SWITCH FOR "ON-OFF" CONTROL.
- b. SELECTED ROOMS TO HAVE DIMMING SWITCHES, AS INDICATED ON THE PLANS.
- c. MANUAL "ON-OFF" TO 100% BY LIGHT SWITCH.
- d. AUTOMATIC "OFF" 20 MINUTES AFTER LAST MOTION DETECTED BY OCCUPANCY SENSOR.

RESTROOMS:
- a. ALL ROOMS TO HAVE A MANUAL SWITCH FOR "ON-OFF" CONTROL.
- b. AUTOMATIC "ON" TO 100% RATED OUTPUT BY MOTION SENSOR.
- c. MANUAL "ON-OFF" TO 100% BY LIGHT SWITCH.
- d. AUTOMATIC "OFF" 20 MINUTES AFTER LAST MOTION DETECTED BY OCCUPANCY SENSOR.

OFFICE SPACES:
- a. ALL OFFICE WORK SPACE "ZONES" ARE LOCATED IN SEPARATE "AREAS" ON THE PLAN AND ARE ROUGHLY 600 SQUARE FEET OR LESS. ALL OFFICE WORK AREAS (SPACES) SHALL HAVE A MANUAL SWITCH FOR "ON-OFF" CONTROL.
- b. MANUAL "ON-OFF" CONTROL TO 100% BY LIGHT SWITCH.
- c. AUTOMATIC "ON" BY ZONE TO 100% RATED OUTPUT BY MOTION SENSOR.
- d. EACH "ZONE" SHALL DIM TO 20% RATED OUTPUT 20 MINUTES AFTER LAST MOTION DETECTED BY OCCUPANCY SENSOR, BUT SHALL NOT TURN "OFF".
- e. ALL LIGHTS IN EACH OPEN OFFICE AREA SPACE SHALL TURN "OFF" 20 MINUTES AFTER LAST MOTION DETECTED BY ANY OCCUPANCY SENSOR WITHIN THE SPACE.

HALLWAYS:
- a. AUTOMATIC "ON" TO 100% RATED OUTPUT BY MOTION SENSOR.
- b. MANUAL "ON-OFF" TO 100% BY LIGHT SWITCH.
- c. AUTOMATIC "OFF" 20 MINUTES AFTER LAST MOTION DETECTED BY OCCUPANCY SENSOR.

EQUIPMENT AND ELECTRICAL ROOMS:
- a. MANUAL "ON-OFF" CONTROL FOR SAFETY REASONS.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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STATE OF TEXAS FIRM REGISTRATION NO. F-19468
PROJECT NO.: 2023.044

STATE OF TEXAS
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02/23/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT LIGHTING PLAN - NEW WORK

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: E-101

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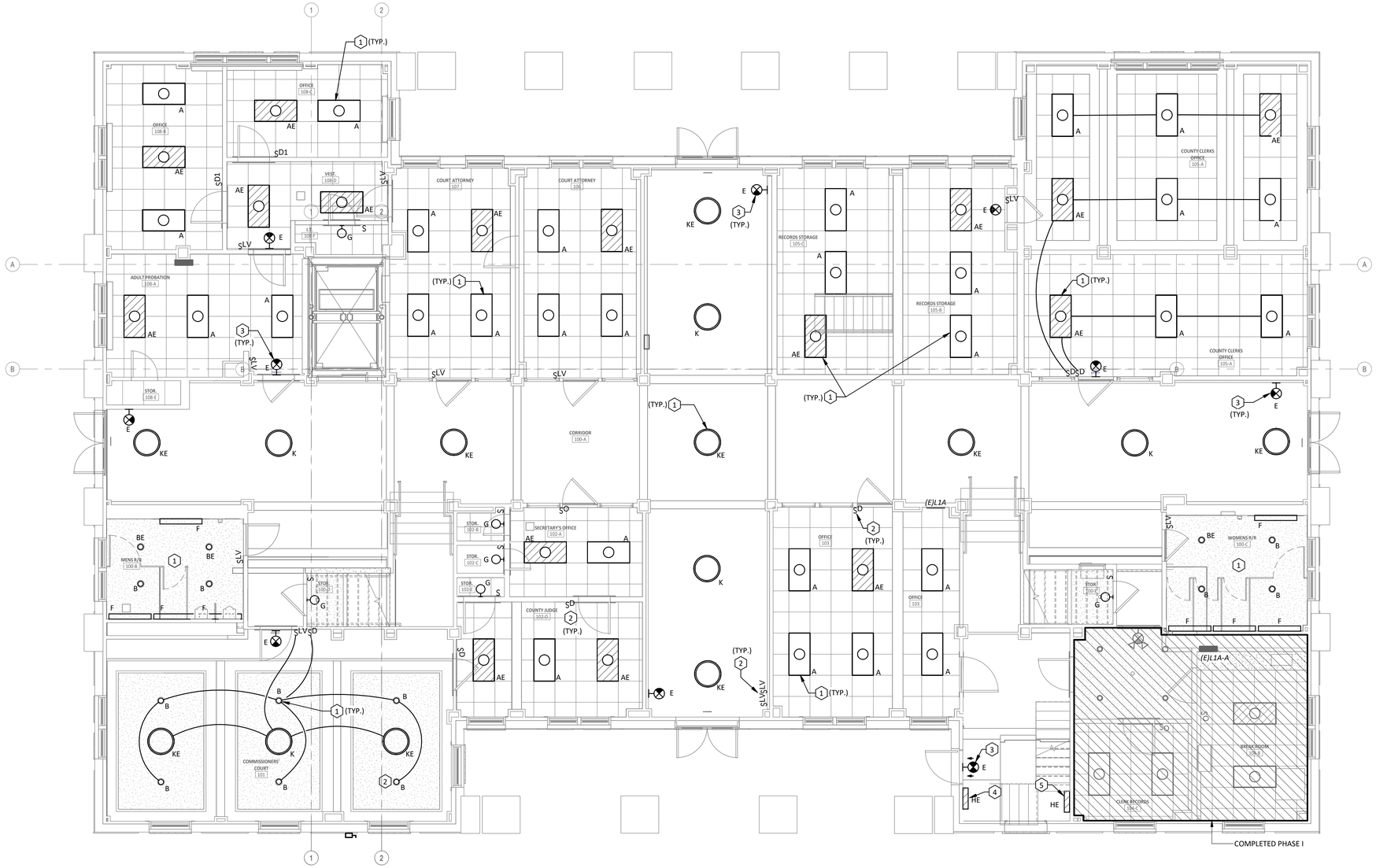

LIGHTING NEW WORK KEYED NOTES:

1. PROVIDE NEW LIGHT FIXTURE OF TYPE SCHEDULED AND RECONNECT TO ORIGINAL LIGHTING CIRCUIT SERVING LIGHTS THAT WERE REMOVED FROM THIS AREA UNDER DEMOLITION; EXTEND CIRCUIT AS REQUIRED. CONNECT LIGHTING TO NEW CONTROL SWITCH AND OCCUPANCY CONTROL MEANS SHOWN FOR THAT ROOM OR AREA.
2. INSTALL NEW LIGHTING CONTROL SWITCH OF INDICATED TYPE. WHERE EXISTING JUNCTION BOX AND CONDUIT RISER ARE PRESENT AT THIS LOCATION, REUSE FOR NEW SWITCH AND WIRING INSTALLATION. POSITION SWITCH TO MEET ADA REQUIREMENTS FOR HEIGHT AND CLEARANCES. VERIFY SECURE MOUNTING AND PROPER WIRING CONNECTIONS. ENSURE INSTALLATION COMPLIES WITH ALL APPLICABLE CODES AND STANDARDS.
3. CONNECT TYPE "E" EXIT SIGN TO UNSWITCHED PORTION OF CIRCUIT SERVING LIGHTING IN SAME ROOM OR AREA.
4. WALL MOUNT TYPE "HE" LIGHT FIXTURE APPROXIMATELY 8'-0" ABOVE FINISHED FIRST FLOOR AT THIS LOCATION. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. COORDINATE FINAL LOCATION WITH WALL FEATURES, DOORS, STAIRS, ETC. PRIOR TO ANY ROUGH-IN. CONNECT TO EXISTING UNSWITCHED PORTION OF CIRCUIT SERVING LIGHT FIXTURES REMOVED UNDER DEMOLITION IN THIS STAIRWELL.
5. WALL MOUNT TYPE "HE" LIGHT FIXTURE APPROXIMATELY 7'-6" ABOVE STAIR LANDING AT THIS LOCATION. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. COORDINATE FINAL LOCATION WITH WALL FEATURES, DOORS, STAIRS, ETC. PRIOR TO ANY ROUGH-IN. CONNECT TO EXISTING UNSWITCHED PORTION OF CIRCUIT SERVING LIGHT FIXTURES REMOVED UNDER DEMOLITION IN THIS STAIRWELL.

NORTH

1 FIRST FLOOR LIGHTING PLAN - NEW WORK

Electrical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR LIGHTING PLAN - NEW WORK

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: E-102

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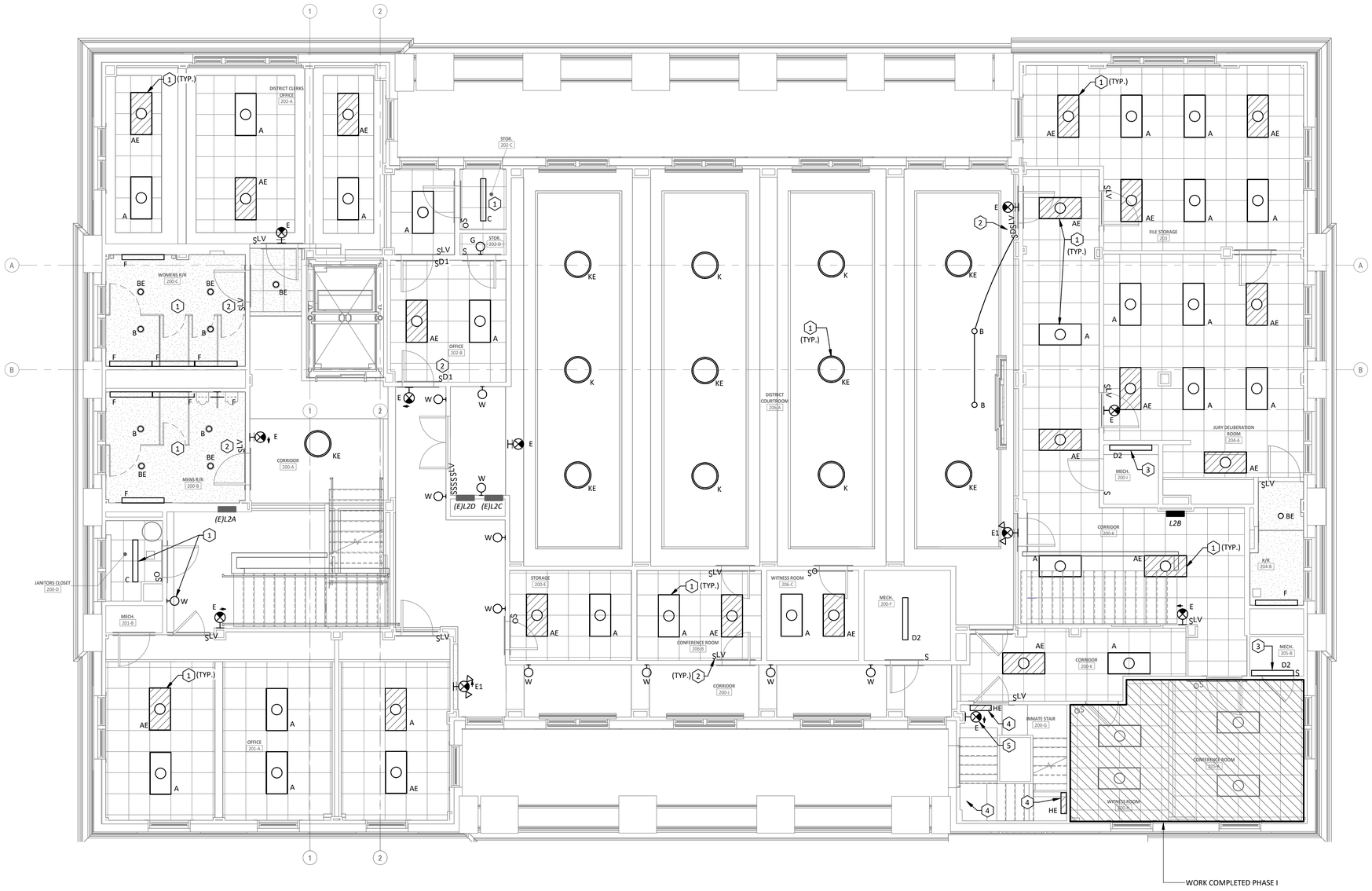

1 SECOND FLOOR LIGHTING PLAN - NEW WORK

Electrical — 3/16" = 1'-0"

NORTH

SCALE: 3/16"=1'-0"

LIGHTING NEW WORK KEYED NOTES:

1. PROVIDE NEW LIGHT FIXTURE OF TYPE SCHEDULED AND RECONNECT TO ORIGINAL LIGHTING CIRCUIT SERVING LIGHTS THAT WERE REMOVED FROM THIS AREA UNDER DEMOLITION; EXTEND CIRCUIT AS REQUIRED. CONNECT LIGHTING TO NEW CONTROL SWITCH AND OCCUPANCY CONTROL MEANS SHOWN FOR THAT ROOM OR AREA.
2. INSTALL NEW LIGHTING CONTROL SWITCH OF INDICATED TYPE. WHERE EXISTING JUNCTION BOX AND CONDUIT RISER ARE PRESENT AT THIS LOCATION, REUSE FOR NEW SWITCH AND WIRING INSTALLATION. POSITION SWITCH TO MEET ADA REQUIREMENTS FOR HEIGHT AND CLEARANCES. VERIFY SECURE MOUNTING AND PROPER WIRING CONNECTIONS. ENSURE INSTALLATION COMPLIES WITH ALL APPLICABLE CODES AND STANDARDS.
3. WALL MOUNT TYPE "D2" LIGHT FIXTURE APPROXIMATELY 8'-0" A.F.F. TO BOTTOM OF FIXTURE. COORDINATE FINAL LOCATION WITH WALL FEATURES AND MECHANICAL EQUIPMENT, DUCTWORK, ETC. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES.
4. WALL MOUNT TYPE "HE" LIGHT FIXTURE APPROXIMATELY 8'-0" ABOVE STAIR LANDING AT THIS LOCATION. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. COORDINATE FINAL LOCATION WITH WALL FEATURES, DOORS, STAIRS, ETC. PRIOR TO ANY ROUGH-IN. CONNECT TO EXISTING UNSWITCHED PORTION OF CIRCUIT SERVING LIGHT FIXTURES REMOVED UNDER DEMOLITION IN THIS STAIRWELL.
5. WALL MOUNT TYPE "E" EXIT SIGN APPROXIMATELY 8'-0" ABOVE STAIR LANDING AT THIS LOCATION. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. COORDINATE FINAL LOCATION WITH WALL FEATURES, DOORS, STAIRS, ETC. PRIOR TO ANY ROUGH-IN. CONNECT TO EXISTING UNSWITCHED PORTION OF CIRCUIT SERVING LIGHT FIXTURES REMOVED UNDER DEMOLITION IN THIS STAIRWELL.

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR LIGHTING PLAN - NEW WORK

PROJECT NO: 2308 A1

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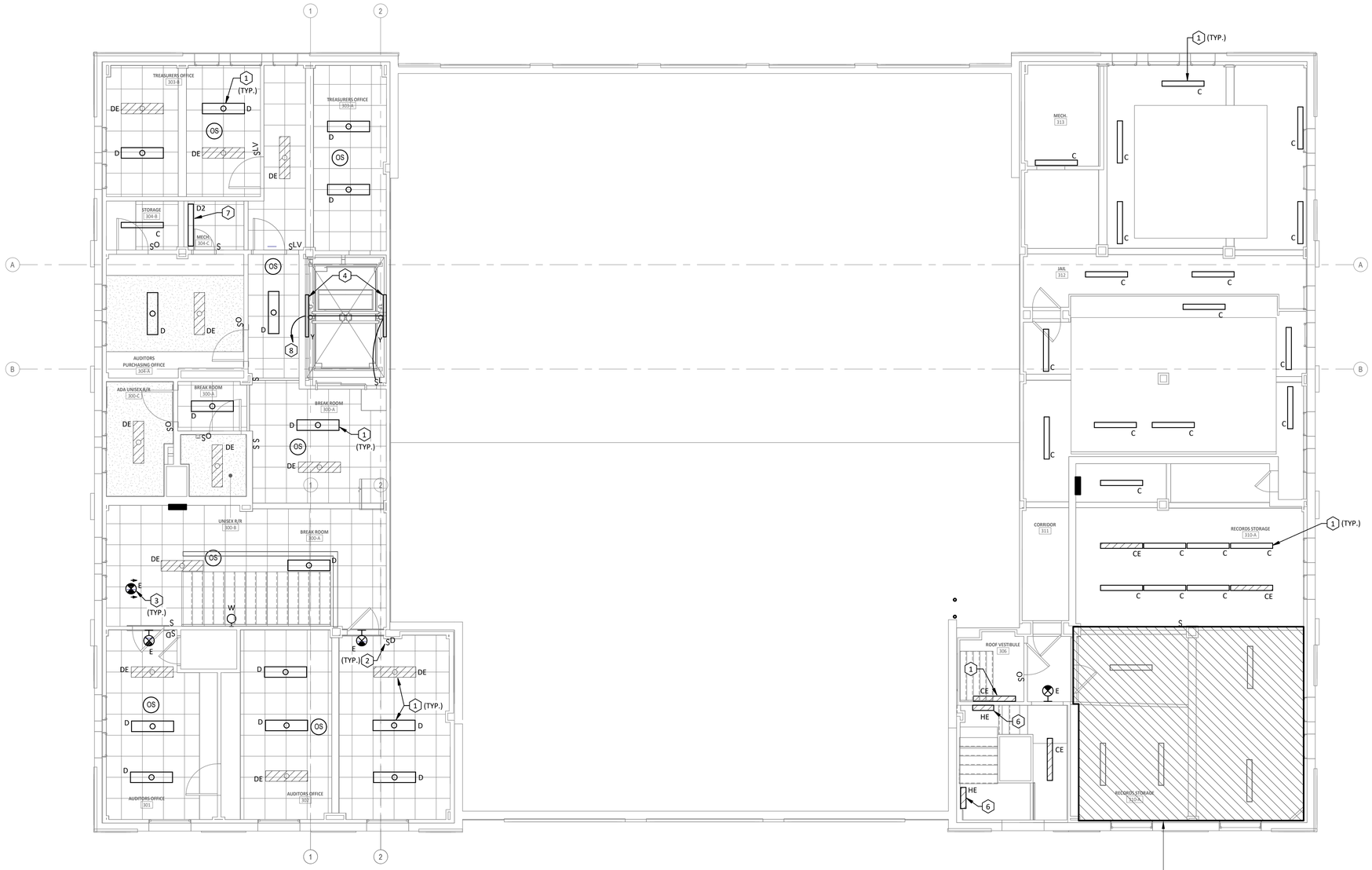

NORTH

1 THIRD FLOOR LIGHTING PLAN - NEW WORK

Electrical 3/16" = 1'-0"

LIGHTING NEW WORK KEYED NOTES:

1. PROVIDE NEW LIGHT FIXTURE OF TYPE SCHEDULED AND RECONNECT TO ORIGINAL LIGHTING CIRCUIT SERVING LIGHTS THAT WERE REMOVED FROM THIS AREA UNDER DEMOLITION; EXTEND EXISTING CIRCUIT AS REQUIRED. CONNECT LIGHTING TO NEW CONTROL SWITCH AND OCCUPANCY CONTROL MEANS SHOWN FOR THAT ROOM OR AREA.
2. INSTALL NEW LIGHTING CONTROL SWITCH OF INDICATED TYPE. WHERE EXISTING JUNCTION BOX AND CONDUIT RISER ARE PRESENT AT THIS LOCATION, REUSE FOR NEW SWITCH AND WIRING INSTALLATION. POSITION SWITCH TO MEET ADA REQUIREMENTS FOR HEIGHT AND CLEARANCES. VERIFY SECURE MOUNTING AND PROPER WIRING CONNECTIONS. ENSURE INSTALLATION COMPLIES WITH ALL APPLICABLE CODES AND STANDARDS.
3. CONNECT TYPE "E" EXIT SIGN TO UNSWITCHED PORTION OF CIRCUIT SERVING LIGHTING IN SAME ROOM OR AREA.
4. SURFACE MOUNT TYPE "Y" LIGHT FIXTURE ON WALLS AT TOP OF ELEVATOR SHAFT. COORDINATE FIXTURE LOCATIONS WITH ELEVATOR EQUIPMENT, STRUCTURE, ETC. AND LOCATE SO AS TO PROVIDE OPTIMUM ILLUMINATION FOR SERVICING OF ELEVATOR EQUIPMENT. CONNECT TO CIRCUIT INDICATED THRU LIGHT SWITCH WITH LIGHTED HANDLE. LOCATE LIGHT SWITCH APPROXIMATELY 48" ABOVE FINISHED THIRD FLOOR AND POSITION IN AN EASILY ACCESSIBLE LOCATION ADJACENT TO ELEVATOR SHAFT ACCESS.
5. WALL MOUNT TYPE "CE" LIGHT FIXTURE 8'-0" ABOVE FINISHED THIRD FLOOR. COORDINATE FINAL LOCATION WITH WALL FEATURES, DOORS, ETC. PRIOR TO ANY ROUGH-IN.
6. WALL MOUNT TYPE "HE" LIGHT FIXTURE APPROXIMATELY 8'-0" ABOVE STAIR LANDING AT THIS LOCATION. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. COORDINATE FINAL LOCATION WITH WALL FEATURES, DOORS, STAIRS, ETC. PRIOR TO ANY ROUGH-IN. CONNECT TO EXISTING UNSWITCHED PORTION OF CIRCUIT SERVING LIGHT FIXTURES REMOVED UNDER DEMOLITION IN THIS STAIRWELL.
7. WALL MOUNT TYPE "D2" LIGHT FIXTURE APPROXIMATELY 8'-0" A.F.F. TO BOTTOM OF FIXTURE. COORDINATE FINAL LOCATION WITH WALL FEATURES AND MECHANICAL EQUIPMENT, DUCTWORK, ETC. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES
8. CONNECT NEW CIRCUIT TO PANEL "NA". PROVIDE NEW 20A1P BREAKER IN EXISTING SPACE WITH 2#10, 1#10GND IN 3/4"C.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR LIGHTING PLAN - NEW WORK

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: E-104

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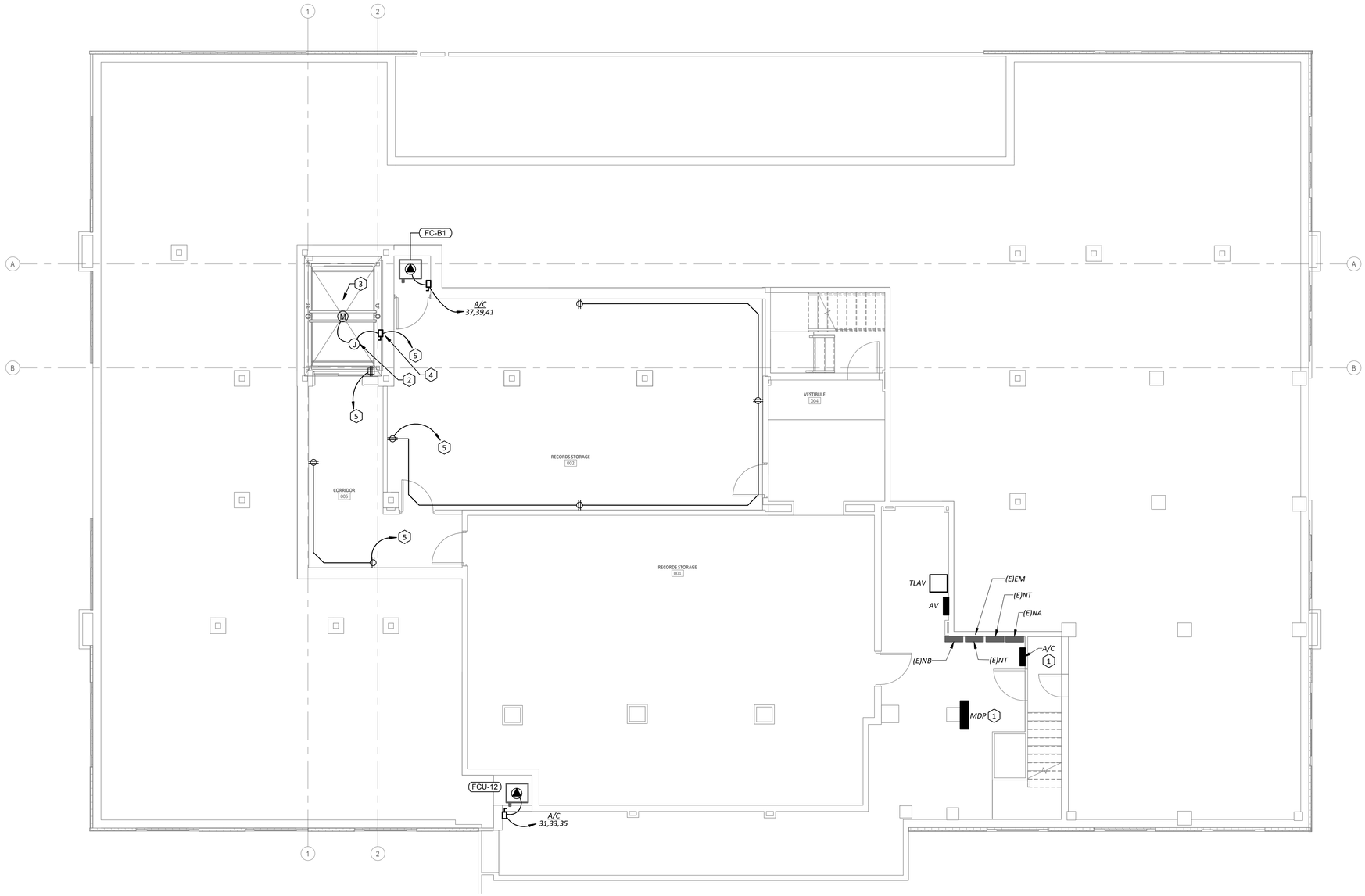

ELECTRICAL GENERAL NOTES (TYPICAL FOR ALL POWER SHEETS):

1. COORDINATE ROUGH-IN OF DEVICES WITH ARCHITECTURAL ELEVATIONS, SECTIONS AND DETAILS. INSTALL DEVICE BOXES FLUSH WITH FINISHED SURFACE. COORDINATE ROUGH-IN OF ELECTRICAL SERVICES TO EQUIPMENT NOT SPECIFIED IN DIVISION 26 WITH THE RESPECTIVE SUPPLIER OF THE EQUIPMENT.
2. DO NOT INSTALL BOXES BACK TO BACK IN DEMISING WALLS.
3. PROVIDE A DEDICATED NEUTRAL FOR EACH 120V SINGLE PHASE CIRCUIT.
4. COORDINATE THE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR PLUMBING AND MECHANICAL EQUIPMENT. CONDUITS SHALL BE KEPT TIGHT TO STRUCTURE OR ROUTED THROUGH STRUCTURAL TRUSSES WHEREVER POSSIBLE.
5. PROVIDE U.L. LISTED FIRE STOP SYSTEMS AT ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE RATED PARTITIONS. SEAL AROUND CONDUIT PENETRATIONS THROUGH NON-RATED PARTITIONS WITH JOINT COMPOUND OR GROUT. REFER TO RCHITECTURAL SHEETS FOR FIRE-RATED PARTITIONS.
6. PROVIDE CEILING ACCESS DOORS TO GAIN ACCESS TO EQUIPMENT ABOVE HARD CEILINGS. OBTAIN APPROVAL FOR CEILING ACCESS DOORS FROM THE ARCHITECT, PRIOR TO ROUGH-IN OF EQUIPMENT OR BRANCH CIRCUIT.
7. INSTALL RECEPTACLES AND DATA DROPS NO MORE THAN 6" APART WHERE SUCH DROPS ARE LOCATED ON THE POWER, SPECIAL SYSTEMS OR TECHNOLOGY SHEETS IN CLOSE PROXIMITY. COORDINATE WITH THE DIV. 27 CONTRACTOR AS REQUIRED, PRIOR TO ROUGHING IN.
8. PROVIDE NEW TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND EXISTING ELECTRICAL PANELS, WHERE CIRCUITS ARE ADDED, REMOVED OR MODIFIED. INDICATE THE EQUIPMENT NAME, TYPE AND LOCATION FOR EACH CIRCUIT, IN ACCORDANCE WITH NEC 2020, ARTICLE 408.4. SECURELY AFFIX CIRCUIT DIRECTORIES TO THE INSIDE SURFACE OF THE PANEL DOOR, AS SPECIFIED.
9. CONTRACTOR TO PROVIDE LABEL AT ALL J-BOXES WITH THE FOLLOWING STATEMENT "FED FROM PANEL ___ LOCATED ON FLOOR __."
10. PROVIDE SPLIT CONTROLLED RECEPTACLE IN ALL REQUIRED SPACES PER 2021 IECC - C405.11 AUTOMATIC RECEPTACLE CONTROL (ENCLOSED OFFICES, CONFERENCE ROOMS, COPY/PRINT ROOMS, BREAK ROOMS, ETC.). SPLIT CONTROLLED RECEPTACLES IN OFFICES, CONFERENCE ROOMS, ETC. TO BE CONTROLLED BY A POWER PACK SERVING THEIR RESPECTIVE AREAS.
11. THE CONTRACTOR SHALL COORDINATE ALL PLANNED POWER OUTAGES WITH THE OWNER TEAM, ESPECIALLY THOSE THAT MAY IMPACT EQUIPMENT OR OPERATIONS IN AREAS OUTSIDE THE DESIGNATED CONSTRUCTION ZONE. PROPER NOTIFICATION AND APPROVAL MUST BE OBTAINED IN ADVANCE TO MINIMIZE DISRUPTIONS TO HEB'S OPERATIONS.

POWER NEW WORK KEYED NOTES:

1. PROVIDE NEW PANEL; SEE PANEL SCHEDULE AND RISER.
2. PROVIDE NEMA 6 J-BOX MOUNTED TO FLOOR WITHIN 6'-0" OF PUMP PER NEC 620.21 (A)(1). PUMP POWER CABLE FURNISHED BY PLUMBING CONTRACTOR; MAKE ALL 120V CONNECTIONS.
3. AVOID INSTALLING ELECTRICAL ITEMS WITH 4'-0" OF PIT FLOOR WHERE POSSIBLE. ALL PIT ELECTRICAL SHALL BE NEMA 4 (WEATHERPROOF) WHEN INSTALLED WITHIN 4'-0" OF PIT FLOOR. COORDINATE EXACT LOCATION OF ELECTRICAL EQUIPMENT IN PIT WITH ELEVATOR SUPPLIER.
4. PROVIDE 240V, 30A2PNF NEMA 3R DISCONNECT.
5. CONNECT NEW CIRCUIT TO PANEL "NA". PROVIDE NEW 20A1P BREAKER IN EXISTING SPACE WITH 2#10, 1#10GND IN 3/4"C.

NORTH

1 BASEMENT POWER PLAN - NEW WORK

Electrical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT POWER PLAN - NEW WORK

PROJECT NO: 2308 A1

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SHEET NO: E-201

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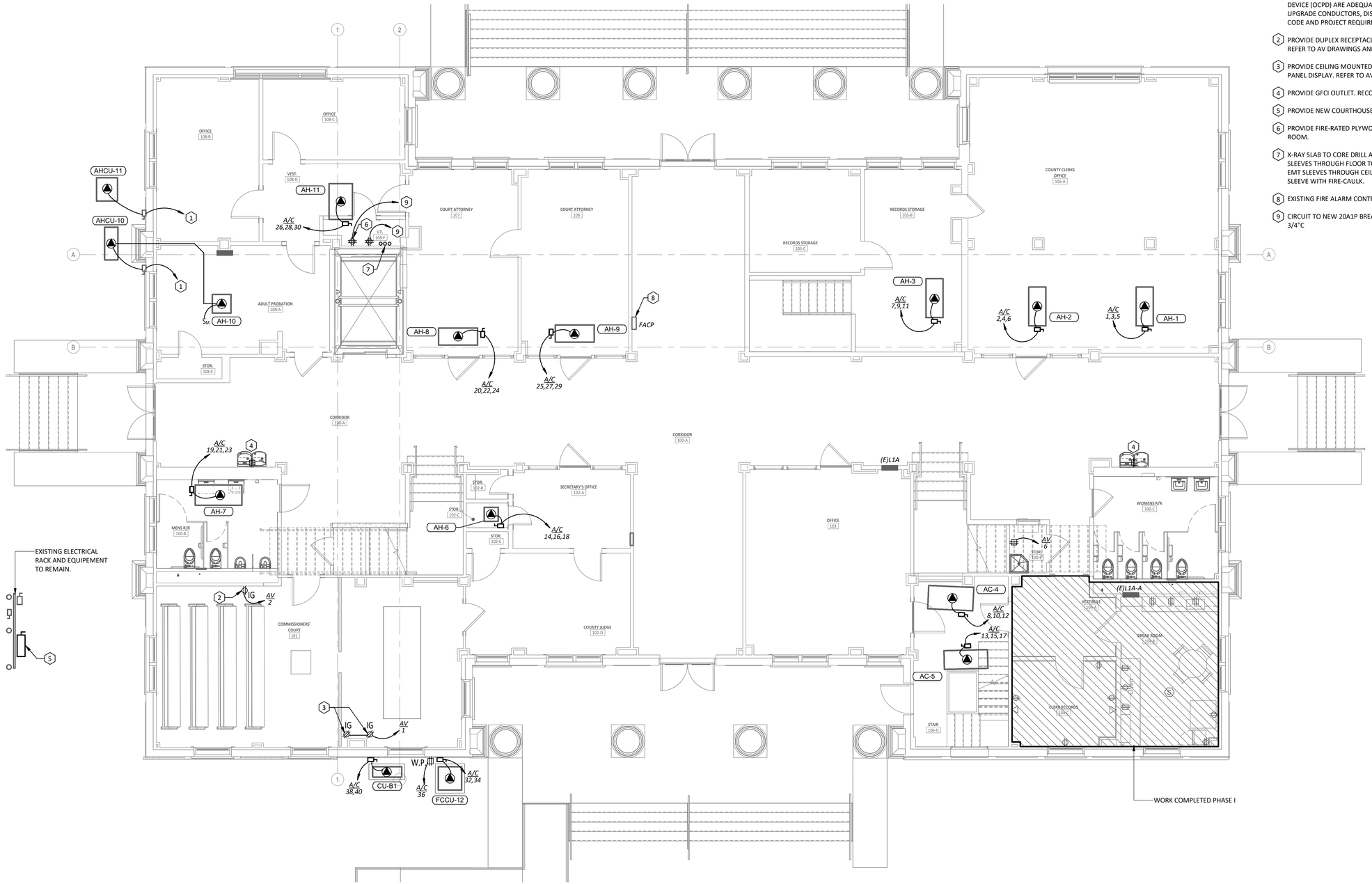
POWER NEW WORK KEYED NOTES:

1. CONNECT TO THE EXISTING CIRCUIT. VERIFY IN FIELD THAT THE EXISTING CONDUCTORS, DISCONNECT SWITCH, AND OVERCURRENT PROTECTION DEVICE (OCPD) ARE ADEQUATELY SIZED FOR THE NEW LOAD. REPLACE OR UPGRADE CONDUCTORS, DISCONNECT, AND OCPD AS REQUIRED TO MEET CODE AND PROJECT REQUIREMENTS.
2. PROVIDE DUPLEX RECEPTACLE FOR MOUNTED INSIDE DISPLAY ENCLOSURE. REFER TO AV DRAWINGS AND DETAILS.
3. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE FOR CEILING MTD. FLAT PANEL DISPLAY. REFER TO AV DWGS AND DETAILS.
4. PROVIDE GFCI OUTLET. RECONNECT WITH EXISTING CIRCUIT.
5. PROVIDE NEW COURTHOUSE DISCONNECT; SEE RISER DIAGRAM.
6. PROVIDE FIRE-RATED PLYWOOD BACK BOARD ALONG SOUTH WALL OF IT ROOM.
7. X-RAY SLAB TO CORE DRILL AND PROVIDE ONE SET OF THREE (3) 3" EMT SLEEVES THROUGH FLOOR TO BASEMENT AND ONE SET OF THREE (3) 3" EMT SLEEVES THROUGH CEILING TO SECOND FLOOR. SEAL SPACE AROUND SLEEVE WITH FIRE-CAULK.
8. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
9. CIRCUIT TO NEW 20A1P BREAKER IN PANEL EM WITH 2#10, 1#10GND, IN 3/4"C



NORTH

1 FIRST FLOOR POWER PLAN - NEW WORK

Electrical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR POWER PLAN - NEW WORK

PROJECT NO: 2308 A1

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SHEET NO: E-202

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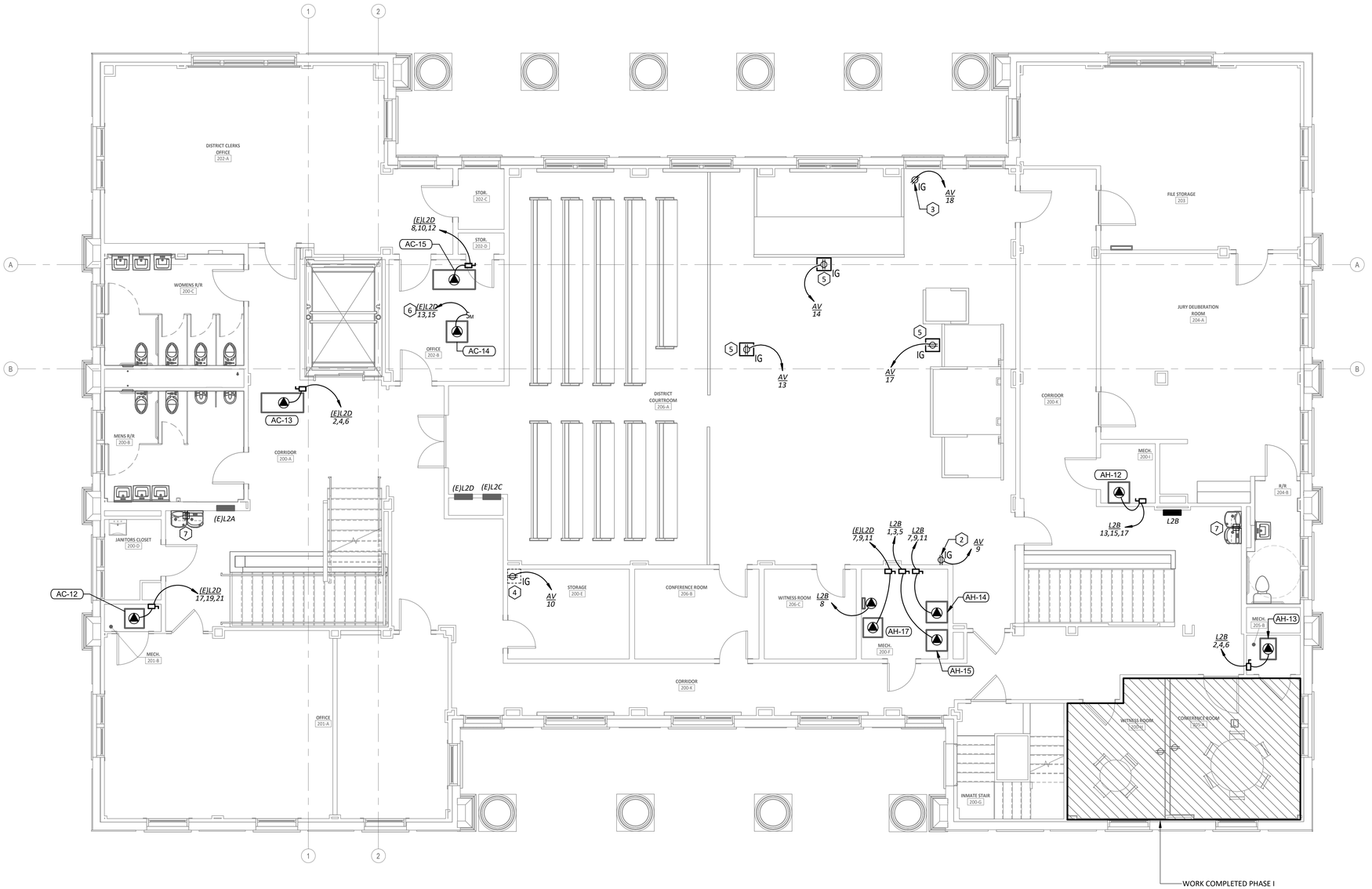

POWER NEW WORK KEYED NOTES:

1. CONNECT NEW CIRCUIT TO EXISTING PANEL. PROVIDE NEW BREAKERS, CONDUCTORS, DISCONNECT, AND OCPD AS REQUIRED TO MEET CODE AND PROJECT REQUIREMENTS.
2. PROVIDE DUPLEX RECEPTACLE MOUNTED INSIDE DISPLAY ENCLOSURE. REFER TO AV DRAWINGS AND DETAILS.
3. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE FOR CEILING MTD. FLAT PANEL DISPLAY. REFER TO AV DWGS AND DETAILS.
4. PROVIDE DUPLEX RECEPTACLE INSIDE AV EQUIPMENT RACK. REFER TO AV DRAWINGS AND DETAILS. VERIFY EXACT LOCATION W/ELECTRICAL CONTRACTOR.
5. PROVIDE DUPLEX RECEPTACLE AND LOCATE INSIDE OF FLOOR BOX AT APPROX. THIS LOCATION. REFER TO AV DRAWINGS AND DETAILS.
6. INDOOR UNIT POWERED AND CONTROLLED BY OUTDOOR UNIT. PROVIDE TWO (2) EMPTY 1"C WITH PULL STRING TO OUTDOOR UNIT. PROVIDE MOTOR RATED 208V, 20A2P SWITCH.
7. PROVIDE GFCI CIRCUIT BREAKER. RECONNECT WITH EXISTING CIRCUIT.

NORTH

1 SECOND FLOOR POWER PLAN - NEW WORK

Electrical 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR POWER PLAN - NEW WORK

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: E-203

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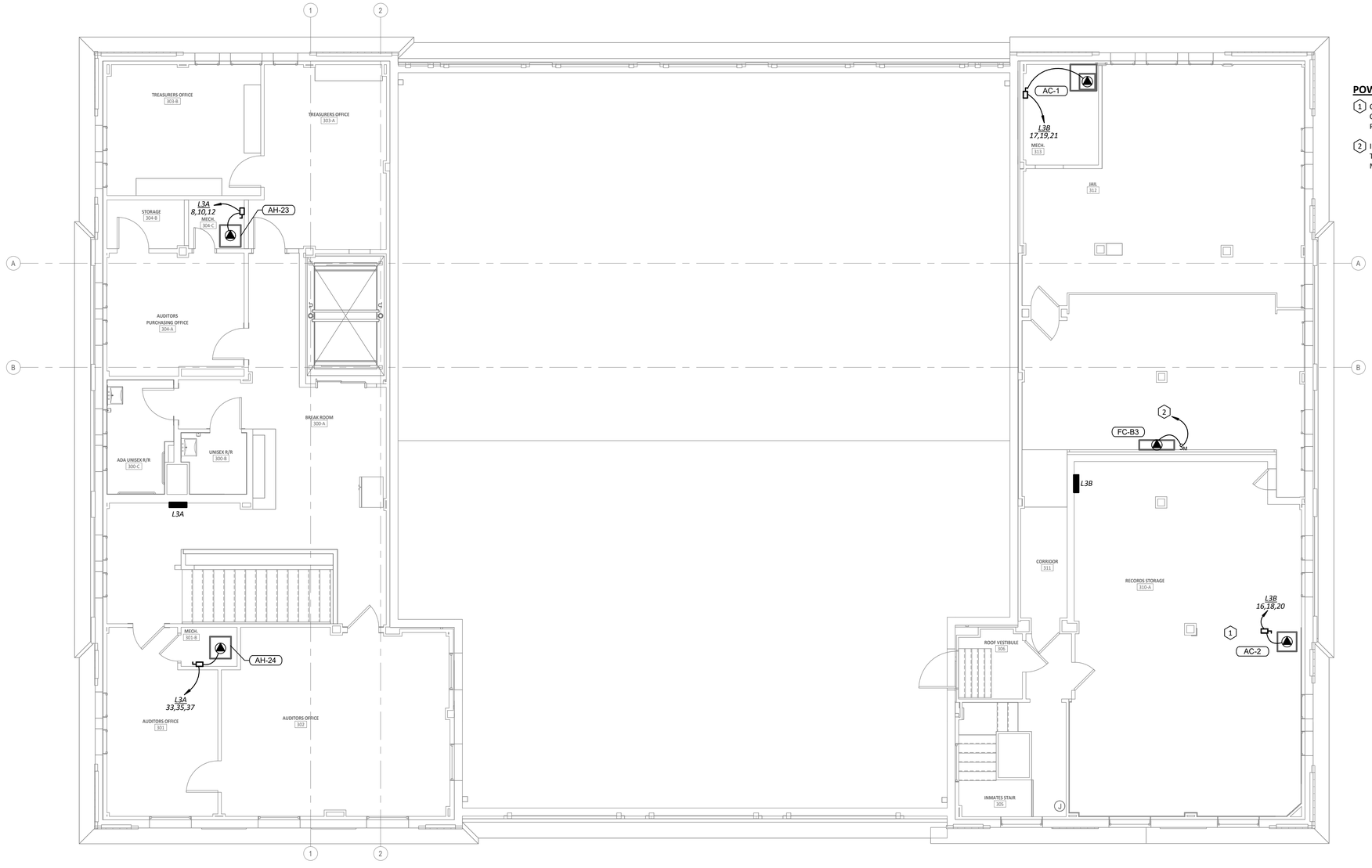

POWER NEW WORK KEYED NOTES:

1. CONNECT NEW CIRCUIT TO EXISTING PANEL. PROVIDE NEW BREAKERS, CONDUCTORS, DISCONNECT, AND OCPD AS REQUIRED TO MEET CODE AND PROJECT REQUIREMENTS.
2. INDOOR UNIT POWERED AND CONTROLLED BY OUTDOOR UNIT. PROVIDE TWO (2) EMPTY 1"C WITH PULL STRING TO OUTDOOR UNIT. PROVIDE MOTOR RATED 208V, 20A2P SWITCH.

NORTH

1 THIRD FLOOR POWER PLAN - NEW WORK

Electrical

3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR POWER PLAN - NEW WORK

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: E-204

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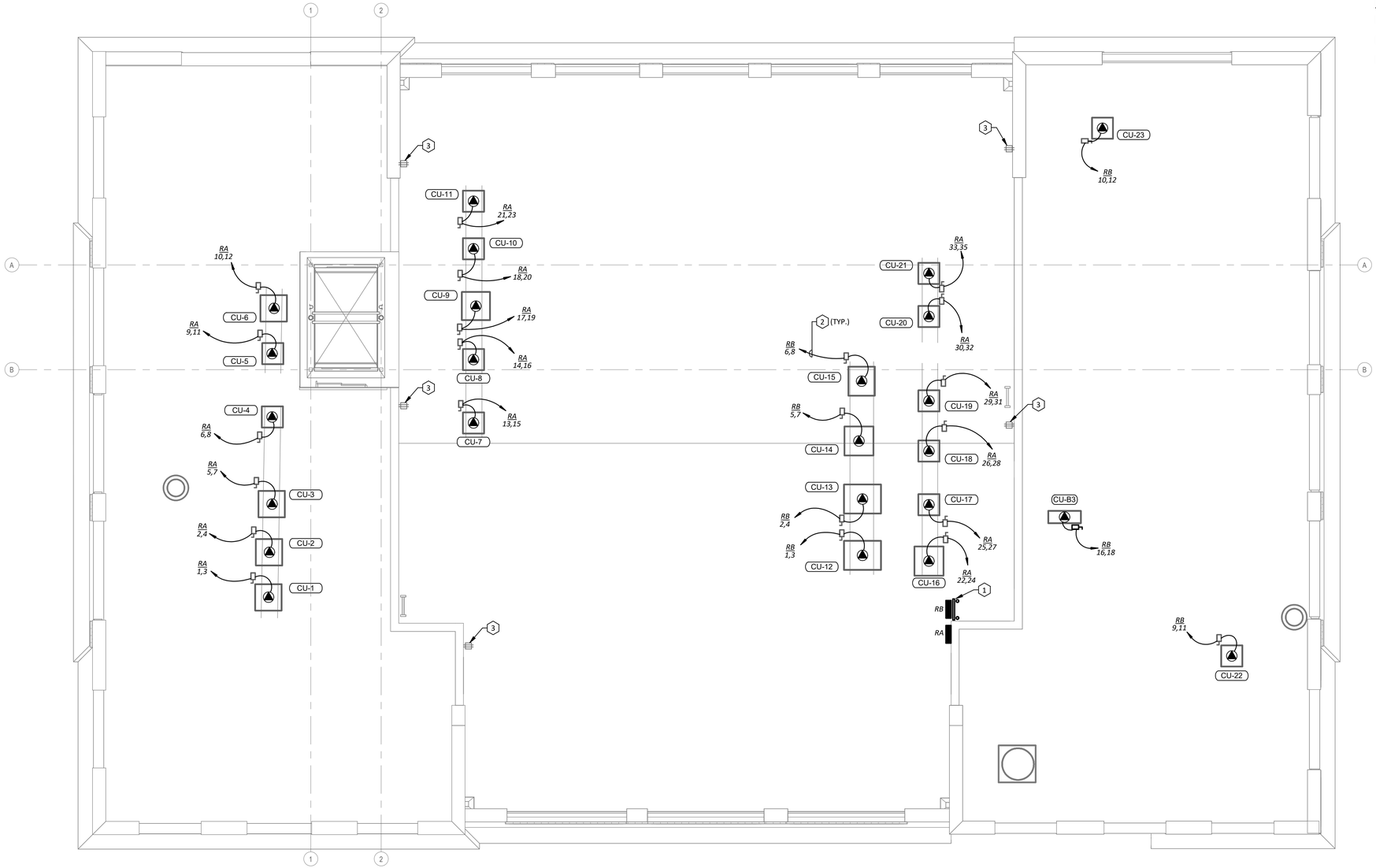
POWER NEW WORK KEYED NOTES:

1. MOUNT PANEL ON KINDORF RACK; SEE 8/E-401 FOR DETAIL.
2. ROUTE NEW CONDUIT ON ROOF SUPPORT BLOCKS; SEE 7/E-401 FOR DETAIL.
3. REMOVE EXISTING DEVICE AND PROVIDE NEW GFCI RECEPTACLE AND NEW WHILE-IN-USE COVER.



1 ROOF POWER PLAN - NEW WORK

Electrical — 3/16" = 1'-0"

NORTH

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ROOF POWER PLAN - NEW WORK

PROJECT NO: 2308 A1

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ELECTRICAL CONNECTION SCHEDULE

MARK	EQUIPMENT SERVED	LOAD	VOLTS/PHASE	BRANCH CIRCUIT	NOTES	CONTROL
AH-1	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AH-2	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AH-3	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AC-4	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AC-5	AIR HANDLING UNIT	31 MCA	240/3	35.3	2	SEE MECHANICAL
AH-6	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AH-7	AIR HANDLING UNIT	58.2 MCA	240/3	60.3	2	SEE MECHANICAL
AH-8	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AH-9	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AH-11	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AH-12	AIR HANDLING UNIT	58.2 MCA	240/3	60.3	2	SEE MECHANICAL
AH-13	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AH-14	AIR HANDLING UNIT	58.2 MCA	240/3	60.3	2	SEE MECHANICAL
AH-15	AIR HANDLING UNIT	58.2 MCA	240/3	60.3	2	SEE MECHANICAL
AH-17	AIR HANDLING UNIT	52 MCA	240/3	60.3	2	SEE MECHANICAL
AH-23	AIR HANDLING UNIT	58.2 MCA	240/3	60.3	2	SEE MECHANICAL
AH-24	AIR HANDLING UNIT	58.2 MCA	240/3	60.3	2	SEE MECHANICAL
AC-1	AIR HANDLING UNIT	34 MCA	240/3	35.3	2	SEE MECHANICAL
AC-2	AIR HANDLING UNIT	34 MCA	240/3	35.3	2	SEE MECHANICAL
AC-12	AIR HANDLING UNIT	52 MCA	240/3	60.3	2	SEE MECHANICAL
AC-13	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
AC-15	AIR HANDLING UNIT	52 MCA	240/3	60.3	2	SEE MECHANICAL
FC-B1	AIR HANDLING UNIT	32 MCA	240/3	35.3	2	SEE MECHANICAL
FCU-12	FAN COIL UNIT	27.4 MCA	240/3	30.3	2	SEE MECHANICAL

MARK	EQUIPMENT SERVED	LOAD	VOLTS/PHASE	BRANCH CIRCUIT	NOTES	CONTROL
CU-1	CONDENSING UNIT	31.8 MCA	230/1	35.2	2	SEE MECHANICAL
CU-2	CONDENSING UNIT	31.8 MCA	230/1	35.2	2	
CU-3	CONDENSING UNIT	31.8 MCA	230/1	35.2	2	SEE MECHANICAL
CU-4	CONDENSING UNIT	12.8 MCA	230/1	15.2	2	SEE MECHANICAL
CU-5	CONDENSING UNIT	12.8 MCA	230/1	15.2	2	SEE MECHANICAL
CU-6	CONDENSING UNIT	37.5 MCA	230/1	40.2	2	SEE MECHANICAL
CU-7	CONDENSING UNIT	16.8 MCA	230/1	20.2	2	SEE MECHANICAL
CU-8	CONDENSING UNIT	12.8 MCA	230/1	15.2	2	SEE MECHANICAL
CU-9	CONDENSING UNIT	31.8 MCA	230/1	35.2	2	SEE MECHANICAL
CU-10	CONDENSING UNIT	12.8 MCA	230/1	15.2	2	SEE MECHANICAL
CU-11	CONDENSING UNIT	12.8 MCA	230/1	15.2	2	SEE MECHANICAL
CU-12	CONDENSING UNIT	37.5 MCA	230/1	40.2	2	SEE MECHANICAL
CU-13	CONDENSING UNIT	37.5 MCA	230/1	40.2	2	SEE MECHANICAL
CU-14	CONDENSING UNIT	37.5 MCA	230/1	40.2	2	SEE MECHANICAL
CU-15	CONDENSING UNIT	37.5 MCA	230/1	40.2	2	SEE MECHANICAL
CU-16	CONDENSING UNIT	31.8 MCA	230/1	35.2	2	SEE MECHANICAL
CU-17	CONDENSING UNIT	22.4 MCA	230/1	25.2	2	SEE MECHANICAL
CU-18	CONDENSING UNIT	22.4 MCA	230/1	25.2	2	SEE MECHANICAL
CU-19	CONDENSING UNIT	16.8 MCA	230/1	20.2	2	SEE MECHANICAL
CU-20	CONDENSING UNIT	16.8 MCA	230/1	20.2	2	SEE MECHANICAL
CU-21	CONDENSING UNIT	16.8 MCA	230/1	20.2	2	SEE MECHANICAL
CU-22	CONDENSING UNIT	16.8 MCA	230/1	20.2	2	SEE MECHANICAL
CU-23	CONDENSING UNIT	16.8 MCA	230/1	20.2	2	SEE MECHANICAL
AHCU-11	CONDENSING UNIT	22.4 MCA	230/1	25.2	2	SEE MECHANICAL
CU-B1	CONDENSING UNIT	16.8 MCA	230/1	20.2	2	SEE MECHANICAL
FCCU-12	FAN COIL CONDENSING UNIT	22.4 MCA	230/1	25.2	3	SEE MECHANICAL
CU/AC-14	AHU/CONDENSING UNIT	17.4 MCA	208/1	20.2	2 8	SEE MECHANICAL
AH/AHCU-10	AHU/CONDENSING UNIT	12.8 MCA	208/1	15.2	2 8	SEE MECHANICAL
FC/CU-B3	AHU/CONDENSING UNIT	16.4 MCA	208/1	20.2	2 8	SEE MECHANICAL

GENERAL NOTES:

- LOAD INDICATED IS NOMINAL. PROVIDE CONDUIT, CONDUCTORS, CIRCUIT BREAKERS, SWITCHES, FUSES, STARTERS,ETC. AS REQUIRED BY ACTUAL EQUIPMENT FURNISHED. VERIFY REQUIREMENTS PRIOR TO ANY WORK.
- ALL MOTOR STARTERS, CONTROLLERS AND/ OR VFD'S SERVING MECHANICAL EQUIPMENT ARE TO BE FURNISHED AND INSTALLED BY THE HVAC SUBCONTRACTOR. ELECTRICAL DISCONNECTS (THAT ARE NOT FACTORY INSTALLED), CONDUITS, BOXES, LINE VOLTAGE WIRING AND FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL SUBCONTRACTOR.
- ELECTRICAL SUBCONTRACTOR TO PROVIDE LINE VOLTAGE INTERCONNECT WIRING OF MECHANICAL EQUIPMENT AS NEEDED. COORDINATE WITH MECHANICAL DRAWINGS.
- ALL SWITCHES SHALL DISCONNECT POWER FROM ALL PHASE CONDUCTORS OF THE CIRCUIT.
- ALL DISCONNECT SWITCHES SHALL HAVE A LISTED HORSEPOWER RATING TO EQUAL OR EXCEED THE HORSEPOWER RATING OF THE EQUIPMENT BEING SERVED BY THE BRANCH CIRCUIT.

ELECTRICAL CONNECTION BRANCH CIRCUIT SCHEDULE:

15.2	2 #12 & 1 #12 GROUND IN 3/4" CONDUIT.	35.2	2 #10 & 1 #10 GROUND IN 3/4" CONDUIT.
20.2	2 #12 & 1 #12 GROUND IN 3/4" CONDUIT.	35.3	3 #10 & 1 #10 GROUND IN 3/4" CONDUIT.
20.3	3 #12 & 1 #12 GROUND IN 3/4" CONDUIT.	40.3	3 #8 & 1 #10 GROUND IN 3/4" CONDUIT.
25.2	2 #12 & 1 #12 GROUND IN 3/4" CONDUIT.	45.3	3 #8 & 1 #10 GROUND IN 3/4" CONDUIT.
30.2	2 #10 & 1 #10 GROUND IN 3/4" CONDUIT.	50.3	3 #8 & 1 #10 GROUND IN 3/4" CONDUIT.
		60.3	3 #6 & 1 #10 GROUND IN 3/4" CONDUIT.

ELECTRICAL CONNECTION SCHEDULE NOTES (SOME MAY NOT BE USED):

1. CONNECT TO CIRCUIT INDICATED THRU FUSED NEC DISCONNECT, IN SIGHT OF AND NOT MORE THAN 40 FT. FROM EQUIPMENT SERVED. DISCONNECT ENCLOSURE SHALL BE SUITABLE FOR THE ENVIRONMENT.
2. CONNECT TO CIRCUIT INDICATED THRU NON-FUSED NEC DISCONNECT, IN SIGHT OF AND NOT MORE THAN 40 FT. FROM EQUIPMENT SERVED. DISCONNECT ENCLOSURE SHALL BE SUITABLE FOR THE ENVIRONMENT.
3. CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED MOTOR RATED TOGGLE DISCONNECT SWITCH, IN SIGHT OF AND NOT MORE THAN 40 FT. FROM EQUIPMENT SERVED. DISCONNECT ENCLOSURE SHALL BE SUITABLE FOR THE ENVIRONMENT.
4. CONNECT TO CIRCUIT INDICATED THRU FACTORY DISCONNECT PROVIDED WITH FAN.
5. REFER TO KEYED NOTE ON POWER PLAN.
6. PROVIDE CONNECTIONS PER MANUFACTURER RECOMMENDATIONS.
7. NOT USED.
8. INDOOR FAN COIL UNIT RECEIVES POWER FROM CORRESPONDING CONDENSING UNIT.

LIGHTING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL NO.	DESCRIPTION	MOUNTING	VOLTAGE	WATTAGE	NOTES
	<varies>		<varies>	<varies>	<varies>	<varies>	
A	LITHONIA	ENVX-2x4-HRG-4800LM-80CRI-40K-MIN1-ZT--MVOLT	2X4 LED TROFFER	RECESSED	120 V	40 VA	1
AE	LITHONIA	ENVX-2x4-HRG-4800LM-80CRI-40K-MIN1-ZT--MVOLT-E10WLCP	2X4 LED TROFFER W/BATTERY	RECESSED	120 V	40 VA	1
B	GOTHAM	IVO6S-D-15LM-40K-80CRI-MD-MIN10-MVOLT-ZT-NCH-SF-P-AR-X-F	LED DOWNLIGHT	RECESSED	120 V	13 VA	1
BE	GOTHAM	IVO6S-D-15LM-40K-80CRI-MD-MIN10-MVOLT-ZT-E6WR-NCH-SF-P-AR-X-F	LED DOWNLIGHT W/BATTERY	RECESSED	120 V	13 VA	1
C	LITHONIA	BLWP-48L-ADSM-LP835-DIM10-BLWPCR	4' LED WRAPAROUND	SURFACE	120 V	32 VA	
CE	LITHONIA	BLWP-48L-ADSM-LP835-DIM10-E10WLCP-BLWPCR	4' LED WRAPAROUND W/BATTERY	SURFACE	120 V	32 VA	
D	LITHONIA	ENVX-1x4-HRG-4800LM-80CRI-40K-MIN1-ZT-MVOLT-1x4-SMK-SHP-PAF	CURVED LUMINOUS SURFACE LED	SURFACE	120 V	41 VA	
D2	AXIS	CLX-L48-5000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH-WGCLX48WH	4' LED LINEAR STRIP	SURFACE	120 V	19 VA	
D2E	AXIS	CLX-L48-5000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH-E10WLCP-WGCLX48WH	4' LED LINEAR STRIP W/BATTERY	SURFACE	120 V	19 VA	
DE	LITHONIA	ENVX-1x4-HRG-4800LM-80CRI-40K-MIN1-ZT-MVOLT-E10WLCP-1x4-SMK-SHP-PAF	CURVED LUMINOUS SURFACE LED W/BATTERY	SURFACE	120 V	41 VA	
E	NEW STAR	CCEX-UF-RW-WH-EM-SDT	LED EXIT SIGN	SURFACE	120 V	4 VA	2
E1	NEW STAR	NSCEU-2-RW-WH-SDT	LED EXIT SIGN W/BUG EYES	SURFACE	120 V	4 VA	2
F	AXIS	ED2WD-700-80-35-UB-4-AP-UNV-DP-1-FL	4' LED LINEAR	SURFACE	120 V	19 VA	
G	LITHONIA	FMMCL-24-840-PIR	STORAGE CLOSET LED	SURFACE	120 V	8 VA	
HE	LITHONIA	BLWP2-40L-ADSMT-LP840-DIM10-MSDPDT7ADCX-E10WLCP-BLWPCR	4' LED WRAPAROUND W/BATTERY & INTEGRAL SENSOR	SURFACE	120 V	32 VA	
K	G LIGHTING	GL-2043-L125-W-X-1	DECORATIVE LED	PENDANT	120 V	157 VA	3
KE	G LIGHTING	GL-2043-L125-W-X-1-EL	DECORATIVE LED W/BATTERY	PENDANT	120 V	157 VA	3
W	RBW	CR-WS-S11-AA01-30-HO-1-10V-UNV-IP20	LED WALL SCONCE	SURFACE	120 V	8 VA	
Y	LITHONIA	CVST-L48-5000LM-MVOLT-40K-80CRI-STSL	VAPOR TIGHT INDUSTRIAL LED	SURFACE	120 V	42 VA	3

LIGHTING FIXTURE SCHEDULE NOTES:

1. RECESSED LIGHT FIXTURES SHALL BE SUITABLE FOR INSTALLATION IN THE CEILING OR SOFFIT SYSTEM BEING PROVIDED. RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH APPROVED HANGING DEVICES, TRIM, PLASTER FRAMES, ETC. AS REQUIRED FOR PROPER INSTALLATION IN THE CEILING SYSTEM BEING PROVIDED, REGARDLESS OF CATALOG NUMBER INDICATED. FIXTURE RECESSED IN HARD CEILINGS SHALL BE PROVIDED WITH A LAY-IN FIXTURE FRAME FOR INSTALLATION OF FIXTURE IN LIEU OF PROVIDING FIXTURE WITH OVERLAP FLANGE TRIM.
2. COMPLETE WITH FACES AND ARROWAS AS INDICATED AND AS REQUIRED BY THE LOCATION OF THE FIXTURE. PROVIDE WALL MOUNTED UNITS WHENEVER POSSIBLE. CONNECT TO UNSWITCHED PORTION OF CIRCUIT SERVING LIGHTING IN SAME AREA OR CORRIDOR. VERIFY CIRCUIT.
3. CONTACTOR SHALL PROVIDE ALL NECESSARY ACCESSORIES FOR MOUNTING FIXTURE.

TRANSFORMER SCHEDULE

MARK	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	GROUNDING ELECTRODE CONDUCTOR (CU)	NOTES
TLAV	15	240V	120/240V-1Ø, 3W	#6	1,2,3,4

1. K-FACTOR K-13.
2. ELECTROSTATIC SHIELDED.
3. ISOLATED GROUND BAR.
4. 200% NEUTRAL.

Fisher Heck ARCHITECTS
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STATE OF TEXAS FIRM REGISTRATION NO. F-19468
PROJECT NO.: 2023.044

STATE OF TEXAS
STEPHEN MITCHELL
99313
LICENSED PROFESSIONAL ENGINEER
02/25/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ELECTRICAL SCHEDULES

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: E-301

3/2/2026 4:49:36 PM

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Panelboard: A/C

Location: BASEMENT
Supply From: MDP
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/240
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				3541	3541								2
3	AH-1	35 A	3			3541	3541			3	35 A	AH-2	4
5								3541	3541				6
7				3541	3541								8
9	AH-3	35 A	3			3541	3541			3	35 A	AC-4	10
11								3541	3541				12
13				3541	3541								14
15	AC-5	35 A	3			3541	3541			3	35 A	AH-6	16
17								3541	3541				18
19				6441	3541								20
21	AH-7	60 A	3			6441	3541			3	35 A	AH-8	22
23								6441	3541				24
25				3541	3541								26
27	AH-9	35 A	3			3541	3541			3	35 A	AH-11	28
29								3541	3541				30
31				5755	2576								32
33	FCU-12	60 A	3			5755	2576			2	25 A	FCCU-12	34
35								5755	180	1	20 A	WP RECEPT - EXTERIOR	36
37				3541	1932					2	20 A	CU-B1	38
39	FC-B1	35 A	3			3541	1932						40
41								3541	--	1	--	SPACE	42
43	SPARE	20 A	1	0	--					1	--	SPACE	44
45	SPACE	--	1			--	--			1	--	SPACE	46
47	SPACE	--	1					--	--	1	--	SPACE	48
49	SPACE	--	1	--	--					1	--	SPACE	50
51	SPACE	--	1			--	--			1	--	SPACE	52
53	SPACE	--	1					--	--	1	--	SPACE	54
			Total Load:	52117 VA		52117 VA		47789 VA					
			Total Amps:	440 A		440 A		398 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	151842 VA	100.00%	151842 VA		
Receptacle	180 VA	100.00%	180 VA	**Total Conn. Load:**	152022 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	152022 VA
				Total Conn.:	359 A
				Total Est. Demand:	359 A

Panelboard: AV

Location: BASEMENT
Supply From: TLAV
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208
Phases: 1
Wires: 3

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

1

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	RECEPT - COMISS. COURT 101	20 A	1	360	180			1	20 A	RECEPT - COMISS. COURT 101	2
3	RECEPT - I.T. 108-F	20 A	1			360	--	1	--	SPACE	4
5	SPACE	--	1	--	180			1	20 A	RECEPT - STOR. 100-E	6
7	RECEPT - I.T. 108-F	20 A	1			360	--	1	--	SPACE	8
9	RECEPT - DISTRICT COURTROOM 206-A	20 A	1	180	180			1	20 A	RECEPT - STORAGE 200-E	10
11	SPACE	--	1			--	--	1	--	SPACE	12
13	FLOOR RECEPT - DISTRICT COURTROOM 206-A	20 A	1	600	600			1	20 A	FLOOR RECEPT - DISTRICT COURTRM. 206-A	14
15	SPACE	--	1			--	--	1	--	SPACE	16
17	FLOOR RECEPT - DISTRICT COURTROOM 206-A	20 A	1	600	180			1	20 A	CEILING RECEPT- DISTRICT COURTRM. 206-A	18
19	SPACE	--	1			--	--	1	--	SPACE	20
21	SPACE	--	1	--	--			1	--	SPACE	22
23	SPACE	--	1			--	--	1	--	SPACE	24
25	SPACE	--	1	--	--			1	--	SPACE	26
27	SPACE	--	1			--	--	1	--	SPACE	28
29	SPACE	--	1	--	--			1	--	SPACE	30
			Total Load:	3060 VA		720 VA					
			Total Amps:	26 A		7 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	3780 VA	100.00%	3780 VA		
				Total Conn. Load:	3780 VA
				Total Est. Demand:	3780 VA
				Total Conn.:	18 A
				Total Est. Demand:	18 A

Panelboard: RA

Location: ROOF
Supply From: MDP
Mounting: SURFACE
Enclosure: Type 3R

Volts: 120/240
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CU-1	35 A	2	1932	1932					2	35 A	CU-2	2
3						1932	1932						4
5	CU-3	35 A	2					1932	1000	2	15 A	CU-4	6
7				1932	1000								8
9	CU-5	15 A	2			1000	2250			2	40 A	CU-6	10
11								1000	2250				12
13	CU-7	20 A	2	1100	1000					2	15 A	CU-8	14
15						1100	1000						16
17	CU-9	35 A	2					2250	1000	2	15 A	CU-10	18
19				2250	1000								20
21	CU-11	20 A	2			1000	2250			2	35 A	CU-16	22
23								1000	2250				24
25	CU-17	25 A	2	1750	1600					2	25 A	CU-18	26
27						1750	1600						28
29	CU-19	20 A	2					1600	1100	2	20 A	CU-20	30
31				1600	1100								32
33	CU-21	20 A	2			1100	0			1	20 A	SPARE	34
35								1100	0	1	20 A	SPARE	36
37	SPACE	--	1	--	8650								38
39	SPACE	--	1			--	9200			3	100 A	RB	40
41	SPACE	--	1					--	7850				42
			Total Load:	26846 VA		26114 VA		24332 VA					
			Total Amps:	226 A		220 A		203 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	77292 VA	100.00%	77292 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	77292 VA
				Total Est. Demand:	77292 VA
				Total Conn.:	220 A
				Total Est. Demand:	220 A

Panelboard: RB

Location: ROOF
Supply From: RA
Mounting: SURFACE
Enclosure: Type 3R

Volts: 120/240
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CU-12	40 A	2	2500	2500					2	40 A	CU-13	2
3						2500	2500						4
5	CU-14	20 A	2					1150	2500	2	40 A	CU-15	6
7				1150	2500								8
9	CU-22	20 A	2			1400	1400			2	20 A	CU-23	10
11								1400	1400				12
13	SPARE	20 A	2	0	0					1	20 A	SPARE	14
15						0	1400			2	20 A	FC/CU-B3	16
17	SPACE	--	1					--	1400				18
19	SPACE	--	1	--	--					2	--	SPACE	20
21	SPACE	--	1			--	--						22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
			Total Load:	8650 VA		9200 VA		7850 VA					
			Total Amps:	73 A		78 A		65 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	25700 VA	100.00%	25700 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	25700 VA
				Total Est. Demand:	25700 VA
				Total Conn.:	71 A
				Total Est. Demand:	71 A

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STATE OF TEXAS FIRM REGISTRATION NO. F-19468
PROJECT NO.: 2023.044

STATE OF TEXAS
STEPHEN MITCHELL
99313
LICENSED PROFESSIONAL ENGINEER
04/15/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: PANELBOARD SCHEDULES

PROJECT NO: 2308 A1

	REVISIONS	DATE
1	Revision 1	04/15/2026

SHEET NO: E-302

4/15/2026 2:44:03 PM

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Panelboard: L2B

Location:
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/240
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				6441	3541								2
3	AH-15	60 A	3			6441	3541			3	35 A	AH-13	4
5								6441	3541				6
7				6441	500					1	20 A	CENTRAL CONTROLLER	8
9	AH-14	60 A	3			6441	0			1	20 A	EXISTING LOAD	10
11								6441	0	1	20 A	EXISTING LOAD	12
13				6441	0					1	20 A	EXISTING LOAD	14
15	AH-12	0 A	3			6441	0			1	20 A	EXISTING LOAD	16
17								6441	0				18
19	EXISTING LOAD	20 A	1	0	0					2	30 A	EXISTING LOAD	20
21	EXISTING LOAD	20 A	1			0	0						22
23	EXISTING LOAD	20 A	1					0	0	2	60 A	EXISTING LOAD	24
25	EXISTING LOAD	20 A	1	0	--					1	--	SPACE	26
27	EXISTING LOAD	20 A	1			0	--			1	--	SPACE	28
29	EXISTING LOAD	20 A	1					0	--	1	--	SPACE	30
31	EXISTING LOAD	20 A	1	0	--					1	--	SPACE	32
33	EXISTING LOAD	20 A	1			0	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		23363 VA		22863 VA		22863 VA					
		Total Amps:		195 A		191 A		191 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	68590 VA	100.00%	68590 VA		
Power	500 VA	100.00%	500 VA	**Total Conn. Load:**	69090 VA
				Total Est. Demand:	69090 VA
				Total Conn.:	166 A
				Total Est. Demand:	166 A

Panelboard: L3A

Location: BREAK ROOM 300-A
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/240
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING LOAD	20 A	1	0	0					1	20 A	EXISTING LOAD	2
3	EXISTING LOAD	20 A	1			0	0			1	20 A	EXISTING LOAD	4
5	EXISTING LOAD	20 A	1					0	0	1	20 A	EXISTING LOAD	6
7	EXISTING LOAD	20 A	1	0	6441								8
9	EXISTING LOAD	20 A	1			0	6441			3	60 A	AH-23	10
11	EXISTING LOAD	20 A	1					0	6441				12
13	EXISTING LOAD	20 A	1	0	0					1	20 A	EXISTING LOAD	14
15	EXISTING LOAD	20 A	1			0	0			1	20 A	EXISTING LOAD	16
17	EXISTING LOAD	20 A	1					0	0	1	20 A	EXISTING LOAD	18
19	EXISTING LOAD	20 A	1	0	0					1	20 A	EXISTING LOAD	20
21	EXISTING LOAD	20 A	1			0	0			1	20 A	EXISTING LOAD	22
23	EXISTING LOAD	20 A	1					0	0	1	20 A	EXISTING LOAD	24
25	EXISTING LOAD	20 A	1	0	0					1	20 A	EXISTING LOAD	26
27	EXISTING LOAD	20 A	1			0	0			1	20 A	EXISTING LOAD	28
29	EXISTING LOAD	20 A	1					0	0	1	20 A	EXISTING LOAD	30
31	EXISTING LOAD	20 A	1	0	0					1	20 A	EXISTING LOAD	32
33						6441	0			1	20 A	EXISTING LOAD	34
35	AH-24	60 A	3					6441	0	1	20 A	EXISTING LOAD	36
37				6441	0					1	20 A	EXISTING LOAD	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		12881 VA		12881 VA		12881 VA					
		Total Amps:		107 A		107 A		107 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	38644 VA	100.00%	38644 VA		
				Total Conn. Load:	38644 VA
				Total Est. Demand:	38644 VA
				Total Conn.:	93 A
				Total Est. Demand:	93 A

Panelboard: L3B

Location: RECORDS STORAGE 310-A
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/240
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING LOAD	20 A	1	0	0					1	20 A	EXISTING LOAD	2
3	EXISTING LOAD	20 A	1			0	0			1	20 A	EXISTING LOAD	4
5	EXISTING LOAD	20 A	1					0	0	1	20 A	EXISTING LOAD	6
7	EXISTING LOAD	20 A	1	0	0					1	20 A	EXISTING LOAD	8
9	EXISTING LOAD	20 A	1			0	0			1	20 A	EXISTING LOAD	10
11	EXISTING LOAD	20 A	1					0	0	1	20 A	EXISTING LOAD	12
13	EXISTING LOAD	20 A	1	0	0					1	20 A	EXISTING LOAD	14
15	EXISTING LOAD	20 A	1			0	3541						16
17								3763	3541	3	35 A	AC-2	18
19	AC-1	35 A	3	3763	3541								20
21						3763	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		7304 VA		7304 VA		7304 VA					
		Total Amps:		61 A		61 A		61 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	21912 VA	100.00%	21912 VA		
				Total Conn. Load:	21912 VA
				Total Est. Demand:	21912 VA
				Total Conn.:	53 A
				Total Est. Demand:	53 A

Panelboard: MDP (1)

Location: BASEMENT
Supply From: SEE RISER
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/240
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: MLO
Mains Rating: 1200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				26846	52117								2
3	RA	300 A	3			26114	52117			3	400 A	A/C	4
5								24332	47789				6
7				0	0					2	20 A	(E)L2A	8
9	(E)NB	175 A	3			0	0						10
11								0	12881	3	200 A	L3A	12
13				0	12881								14
15	(E)NT	225 A	3			0	12881						16
17								0	0	2	100 A	(E)NA	18
19				21545	0								20
21	L2D	200 A	3			21545	2712			2	100 A	(E)EM	22
23								20805	2712				24
25				23363	0					2	100 A	(E)L1A	26
27	L2B	200 A	3			22863	0						28
29								22863	7304				30
31	(E)L1	100 A	2	0	7304					3	200 A	L3B	32
33						0	7304						34
35	(E)L2C	100 A	2					0	3060	2	50 A	TLAV	36
37				0	720								38
39						0	--			1	--	SPACE	40
41	SPD	30 A	3					--	--	1	--	SPACE	42
43				0	--					1	--	SPACE	44
45						0	--			1	--	SPACE	46
47	ELEVATOR	200 A	3					0	--	1	--	SPACE	48
49				0	--					1	--	SPACE	50
51	SPACE	--	1			--	--			1	--	SPACE	52
53	SPACE	--	1					--	--	1	--	SPACE	54
		Total Load:		144777 VA		145537 VA		141747 VA					
		Total Amps:		1210 A		1217 A		1181 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	427600 VA	100.00%	427600 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	432060 VA
Receptacle	3960 VA	100.00%	3960 VA	**Total Est. Demand:**	432060 VA
Power	500 VA	100.00%	500 VA	**Total Conn.:**	1064 A
				Total Est. Demand:	1064 A

NOTES

(1) PRIOR TO PREPARING GEAR SUBMITTAL; REMOVE COVER OF EXISTNG 'MDP' TO VERIFY AMPERAGE, POLES, AND CONNECTION TO EACH FEEDER TO EACH EXISTING BREAKER AND REPORT FINDINGS TO EOR AS PART OF GEAR SUBMITTAL.

Panelboard: (E)L2D

Location: DISTRICT COURTROOM 206-A
Supply From: MDP
Mounting: RECESSED
Enclosure: Type 1

Volts: 120/240
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				0	3541								2
3	SPARE	40 A	3			0	3541			3	35 A	AC-13	4
5								0	3541				6
7				5755	5755								8
9	AH-17	60 A	3			5755	5755			3	60 A	AC-15	10
11								5755	5755				12
13	AC/CU-14	15 A	2	740	--					1	--	SPACE	14
15						740	--			1	--	SPACE	16
17								5755	--	1	--	SPACE	18
19	AC-12	60 A	3	5755	--					1	--	SPACE	20
21						5755	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
		Total Load:		21545 VA		21545 VA		20805 VA					
		Total Amps:		180 A		180 A		173 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	63896 VA	100.00%	63896 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	63896 VA
Power	0 VA	0.00%	0 VA	**Total Est. Demand:**	63896 VA
				Total Conn.:	150 A
				Total Est. Demand:	150 A

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STATE OF TEXAS FIRM REGISTRATION NO. F-19468
PROJECT NO.: 2023.044

STATE OF TEXAS
STEPHEN MITCHELL
99313
LICENSED PROFESSIONAL ENGINEER
04/15/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: PANELBOARD SCHEDULES

PROJECT NO: 2308 A1

	REVISIONS	DATE
1	Revision 1	04/15/2026

SHEET NO: E-303

4/15/2026 2:44:01 PM

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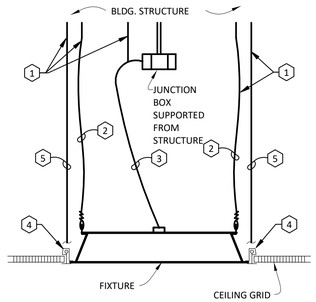
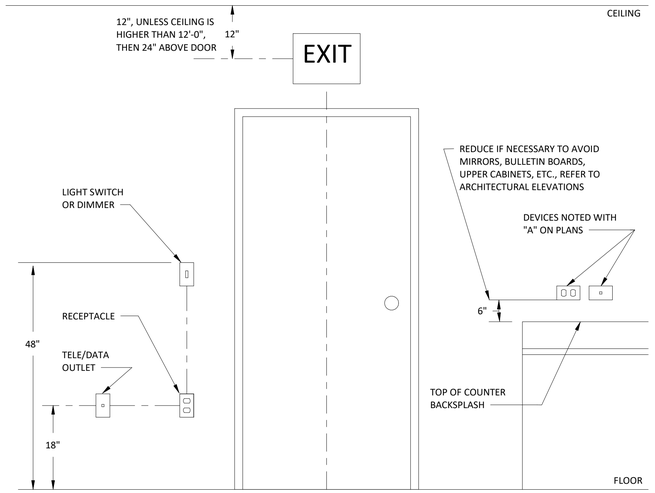
RECESSED LIGHTING FIXTURE NOTES:

1. SUPPORT FROM STRUCTURE. INSERTS OR ANCHOR AS REQUIRED.
2. SAFETY WIRES TO BE PROVIDED & INSTALLED BY ELECTRICAL TRADES. PROVIDE A MINIMUM OF TWO (2) PER FIXTURE AT OPPOSITE CORNERS. WIRES TO BE MINIMUM 12 GAUGE SAME AS SPECIFIED FOR ACOUSTICAL CEILING GRID HANGER WIRES.
3. FLEXIBLE CONDUIT WITH GROUND OR TYPE "MC" METAL CLAD CABLE WITH GROUND (6FT MAX. LENGTH)
4. CADDY (OR EQUAL) UL LISTED MODEL 515A LAY-IN TROFFER LIGHT FIXTURE SUPPORT CLIPS (2 PER FIXTURE MINIMUM) OR CEILING CLIPS INTEGRAL WITH LIGHT FIXTURE TO SECURE FIXTURE TO CEILING GRID.
5. CEILING GRID HANGAR WIRE. REFER TO SPECIFICATION DIVISION 9 - SUSPENDED ACOUSTICAL CEILINGS FOR MATERIALS AND SPACING FOR FIXTURE LOADS.

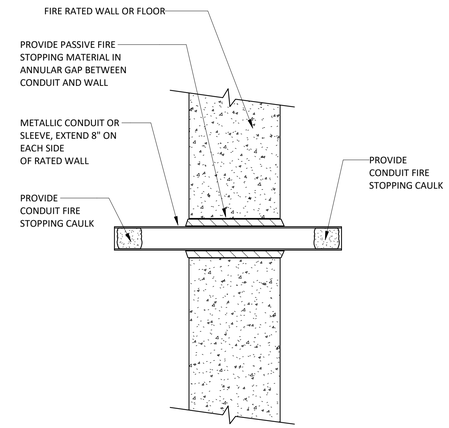


NOTE:
SAFETY WIRES ARE NOT REQUIRED TO BE "TAUT".

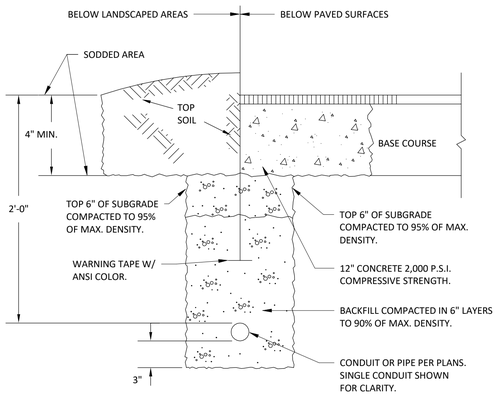
1 LIGHT FIXTURE INSTALLATION DETAIL
Electrical — NO SCALE



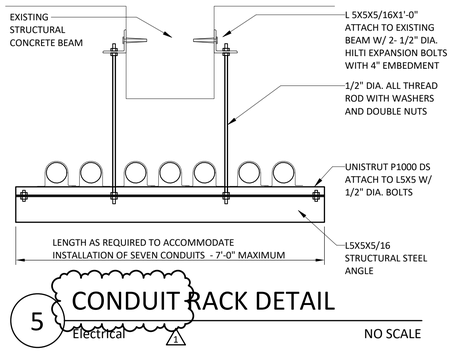
2 DEVICE & LUMINAIRE MOUNTING HEIGHTS
Electrical — NO SCALE



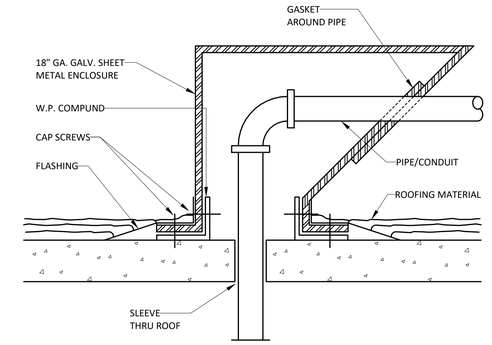
3 FIRE RATED WALL OR FLOOR CONDUIT PENETRATION
Electrical — NO SCALE



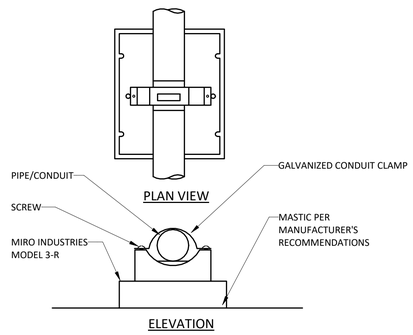
4 SECTION THRU TRENCH
Electrical — NO SCALE



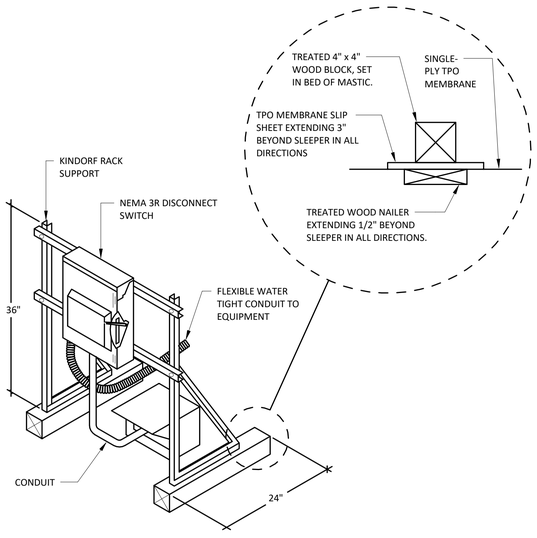
5 CONDUIT RACK DETAIL
Electrical — NO SCALE



6 CONDUIT OR PIPE PENETRATION THRU ROOF DETAIL
Electrical — NO SCALE



7 CONDUIT ROOF SUPPORT DETAIL
Electrical — NO SCALE



8 ROOF RACK DETAIL
Electrical — N.T.S.

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STATE OF TEXAS FIRM REGISTRATION NO. F-19468
PROJECT NO.: 2023.044

STATE OF TEXAS
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04/15/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ELECTRICAL DETAILS

PROJECT NO: 2308 A1

△	REVISIONS	DATE
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SHEET NO: E-401

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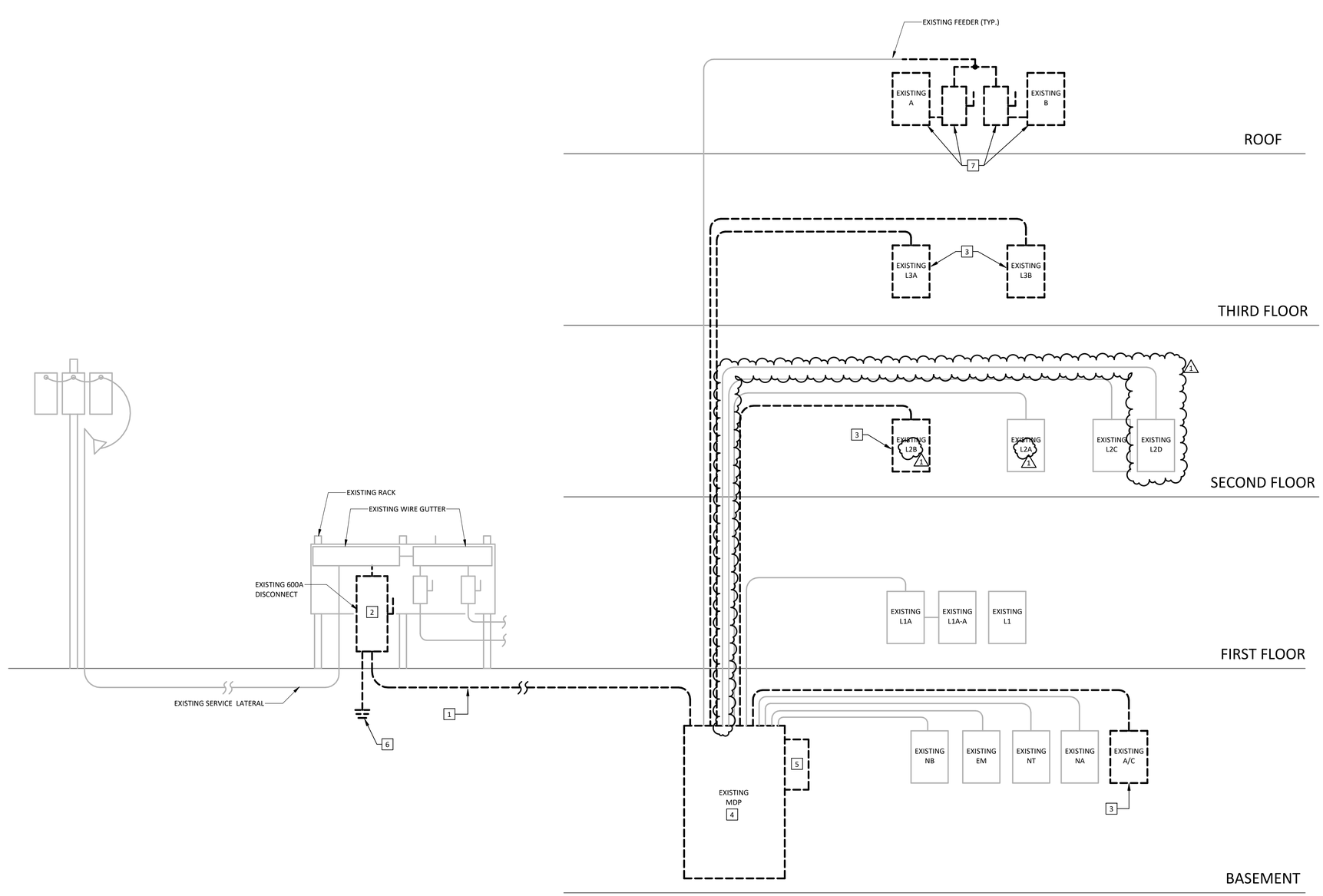

1 ELECTRICAL RISER DIAGRAM - DEMOLITION

Electrical N.T.S.

ELECTRICAL RISER DEMOLITION KEYED NOTES:

1. REMOVE EXISTING CONDUCTORS BACK TO PANEL. TWO (2) EXISTING 3" CONDUIT TO REMAIN FOR REUSE.
2. REMOVE EXISTING 600A DISCONNECT.
3. REMOVE EXISTING PANEL AND FEEDER BACK TO PANEL MDP; SEE NEW WORK.
4. REMOVE EXISTING MDP. COORDINATE SHUT-DOWN AND OUTAGE WITH COUNTY IN WRITING FOURTEEN (14) DAYS PRIOR TO SCHEDULED SHUT-DOWN. KEEP DOWN TIME TO A MINIMUM; SCHEDULE SHUT-DOWN AFTER HOURS AND OVER A LONG WEEKEND.
5. REMOVE EXISTING ENCLOSED CIRCUIT BREAKER.
6. REMOVE GROUND CONNECTION FROM DISCONNECT.
7. REMOVE EXISTING ROOF PANEL AND DISCONNECT. RETAIN EXISTING FEEDER FOR REUSE; SEE NEW WORK.

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ELECTRICAL ONE LINE DIAGRAM - DEMOLITION

PROJECT NO: 2308 A1

△	REVISIONS	DATE
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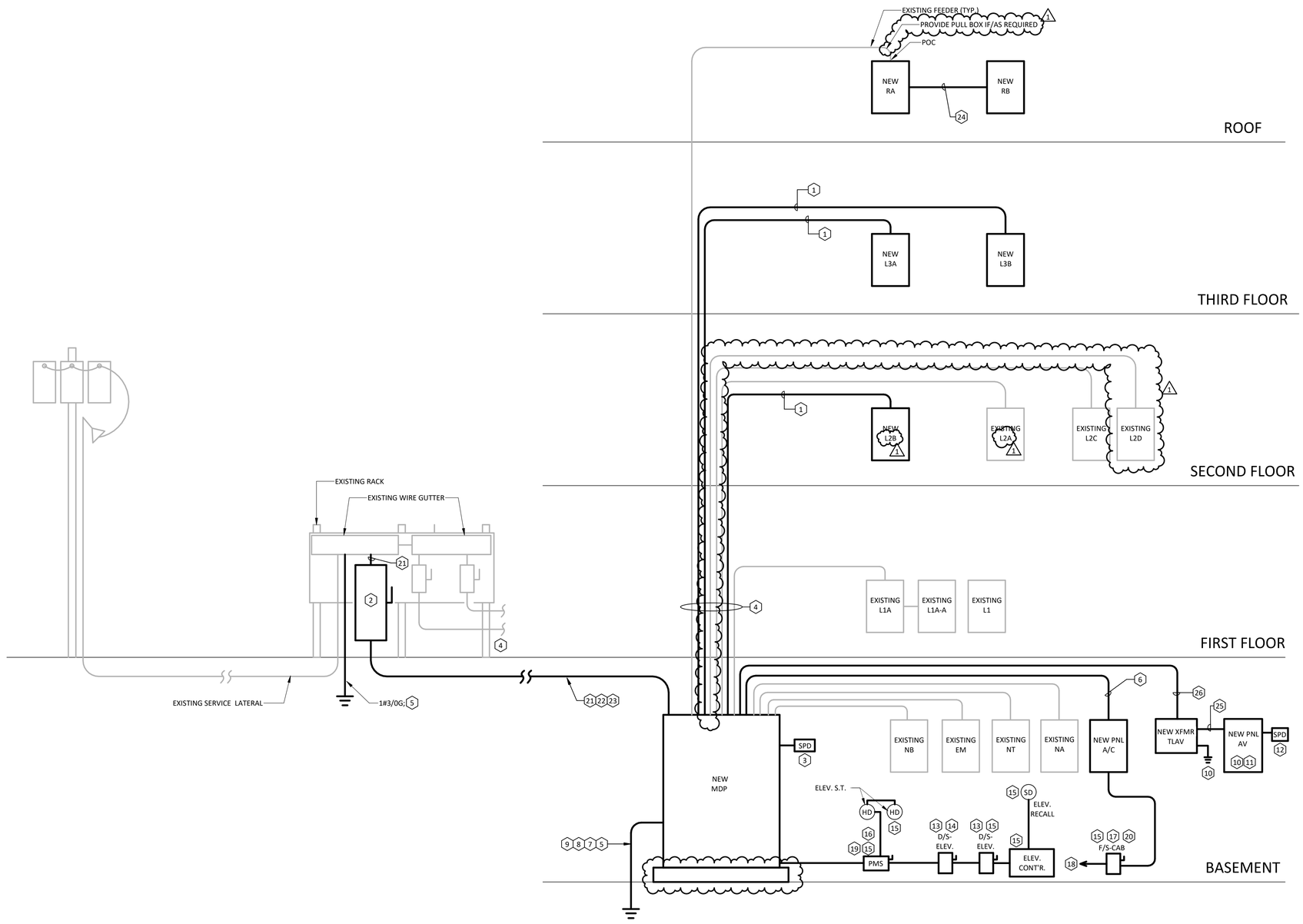

1 ELECTRICAL RISER DIAGRAM - NEW WORK

Electrical N.T.S.

GENERAL RISER DIAGRAM NOTES:

1. EXISTING ELECTRICAL SERVICE IS 120/240V-3PHASE HIGH-LEG DELTA WITH THE 'B' PHASE INDICATED AS THE HIGH-LEG. USE CAUTION TO AVOID PLACING 120V LOADS ON THE HIGH-LEG PHASE. LABEL ALL PANELS AND JUNCTION BOXES CONTAINING THE HIGH-LEG PER NEC REQUIREMENTS.
2. MAIN SERVICE ENTRANCE GEAR SHALL BE LISTED AND LABELED AS SUCH.
3. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED.
4. GROUND RODS SHALL BE 3/4" X 10' MINIMUM. TEST SOIL FOR LESS THAN 25-OHM RESISTANCE AND ADD ADDITIONAL GROUND RODS AS REQUIRED.
5. CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD CONNECTIONS.
6. COORDINATE AVAILABLE FAULT CURRENT IN SUPPLY SOURCE WITH LOCAL UTILITY REPRESENTATIVE. INCREASE EQUIPMENT FAULT CURRENT RATING AS REQUIRED IF SPECIFIED RATING FOR THIS PROJECT IS FOUND TO BE INSUFFICIENT AND REPORT TO ENGINEER.
7. SINGLE LINES SHOWN FOR CLARITY.

GENERAL ELEVATOR ELECTRICAL NOTES:

1. COORDINATE EXACT LOCATION OF ELECTRICAL EQUIPMENT IN ELEVATOR HOISTWAYS, MACHINE ROOMS AND CONTROLS ROOMS WITH ELEVATOR SUPPLIER. ONLY ELECTRICAL EQUIPMENT/WIRING DIRECTLY REQUIRED IN THE FUNCTION OR SUPPORT OF THE ELEVATOR SYSTEM IS ALLOWED IN ELEVATOR HOISTWAYS, MACHINE ROOMS OR CONTROL ROOMS.
2. ELEVATOR DISCONNECTS, OVERCURRENT PROTECTION AND WIRE SIZES LISTED ON PLANS ARE BASED ON THE HORSE POWER RATING OF ONE PARTICULAR ELEVATOR MANUFACTURER PRIOR TO BID. ADJUST SIZES AND QUANTITIES AS REQUIRED PER DATA SUBMITTED IN THE SELECTED ELEVATOR MANUFACTURE'S SHOP DRAWINGS.
3. IN GENERAL, ALL LIGHT FIXTURES LOCATED IN ELEVATOR HOISTWAYS AND ELEVATOR MACHINE ROOMS SHALL EITHER HAVE A WIRE GUARD OR A SHATTER RESISTANT ACRYLIC LENS REGARDLESS OF THE FIXTURE DESIGNATION ON THE PLANS.
4. ALL 120-VOLT, 20-AMP ELEVATOR HOIST WAY, MACHINE ROOM AND CAR LIGHTING AND POWER BRANCH CIRCUITS SHALL BE PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTING (GFI) MEANS.
5. ALL DISCONNECTING MEANS WITHIN ELEVATOR MACHINE ROOMS SHALL BE FUSIBLE TYPE AND SHALL HAVE HANDLES THAT ARE LOCKABLE IN THE "OPEN" POSITION. ELEVATOR POWER DISCONNECTS REQUIRED BY NEC ART. 620.51 SHALL HAVE AUXILIARY MECHANICAL CONTACTS WHEN AN ADDITIONAL POWER SOURCE IS CONNECTED TO THE LOAD SIDE OF THE DISCONNECT. THE AUXILIARY CONTACTS SHALL CAUSE THE ADDITIONAL POWER SOURCE TO BE DISCONNECTED WHEN THE ELEVATOR DISCONNECTING MEANS IS IN THE OPEN POSITION.
6. PROVIDE AREA SMOKE DETECTORS AT EACH LANDING OF EVERY FLOOR.
7. INTERLOCK ELEVATOR RELATED SMOKE AND HEATER DETECTORS, RECALL CONTROL, AND SUPERVISORY FUNCTIONS WITH BUILDING'S EXISTING FIRE ALARM SYSTEM.

ELECTRICAL RISER NEW WORK KEYED NOTES:

1. PROVIDE 4#3/0, 1#6G, IN 2"C.
2. PROVIDE NEW 1200A, NEMA 3R, 3-PHASE, 4-WIRE, SERVICE RATED DISCONNECT WITH 1200A FUSES WITH 65KAIC RATING. LABEL AS "COURTHOUSE MAIN SERVICE".
3. PROVIDE TYPE 2 SURGE PROTECTIVE DEVICE (SPD) WITH INTEGRAL DISCONNECT SWITCH. PROVIDE CIRCUIT BREAKER SIZED PER MANUFACTURER'S RECOMMENDATIONS.
4. ROUTE NEW CONDUIT THROUGH EXITING CHASE.
5. PROVIDE TWO (2) 3/4" X 10' COPPERWELD GROUND RODS. INSTALL RODS A MINIMUM OF 6 FEET APART FROM EACH OTHER. DRIVE GROUND RODS FULLY INTO UNDISTURBED EARTH UNLESS OTHERWISE REQUIRED BY SITE CONDITIONS OR CODE. CONNECT GROUND RODS TO THE GROUNDING ELECTRODE CONDUCTOR USING LISTED CONNECTORS.
6. PROVIDE TWO (2) SETS OF (4#3/0, 1#3G, IN 2-1/2"C).
7. BOND 1#3/0 COPPER GROUNDING ELECTRODE CONDUCTOR TO METAL WATER SERVICE PIPING SYSTEM IF AVAILABLE.
8. BOND 1#3/0 COPPER GROUNDING ELECTRODE CONDUCTOR TO GAS SERVICE PIPING SYSTEM IF AVAILABLE.
9. 1#3/0 INSULATED GROUNDING CONDUCTOR TO STEEL FRAME OF BUILDING.
10. PROVIDE ISOLATED GROUND; BOND TO BUILDING GROUND IN BASEMENT.
11. PROVIDE 200% NEUTRAL TERMINAL.
12. PROVIDE TYPE-1 SPD.
13. 240V, 200A, 3P, HD, NF, N3R.
14. BOTTOM OF HOISTWAY AS DIRECTED BY ELEVATOR CONTRACTOR.
15. TOP OF HOISTWAY AS DIRECTED BY ELEVATOR CONTRACTOR.
16. POWER MODULE SWITCH "PMS" = BUSSMANN #PS-2-T20-R1-K-R-B-F1 WITH THREE 175A (TYPE "J") FUSES.
17. F/S-CAB = 120V, 20A, 1P, HD, ONE 20A (RK5) FUSE, N1.
18. TO ELEVATOR CAB LIGHTS.
19. PROVIDE RED NAMEPLATE WITH WHITE TEXT INDICATING "ELEVATOR POWER".
20. PROVIDE RED NAMEPLATE WITH WHITE TEXT INDICATING "ELEVATOR CAB LIGHTS".
21. PROVIDE FOUR (4) SETS OF (4#350 KCMIL, 1#2/0G, IN 3"C).
22. INSTALL TWO (2) 3" TO MATCH EXISTING 2-3"C FROM DEMOLITION PLANS. SEALL CONDUIT PENETRATION INTO BASEMENT WATER TIGHT WITH LINKSEAL.
23. HYDRO EXCAVATE GRADE TO EXPOSE EXISTING TWO (2) 3" CONDUITS SO TWO ADDITIONAL 3" CAN BE INSTALLED IN PARALLEL. SEE DETAIL 4/E-401 FOR TRENCH BACK-FILL.
24. PROVIDE 4#2, 1#8G, IN 1-1/2"C
25. PROVIDE 3#3, 1#8G,1#8IG, IN 1-1/2"C
26. PROVIDE 3#4, 1#8G, IN 1"C

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STATE OF TEXAS FIRM REGISTRATION NO. F-19468
PROJECT NO.: 2023.044

STATE OF TEXAS
STEPHEN MITCHELL
99313
LICENSED PROFESSIONAL ENGINEER
04/15/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: ELECTRICAL ONE LINE DIAGRAM - NEW WORK

PROJECT NO: 2308 A1

	REVISIONS	DATE
1	Revision 1	04/15/2026

SHEET NO: E-502

4/15/2026 2:43:57 PM

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ADVISORY AUDIOVISUAL POWER REQUIREMENTS

(BY DIV. 26) K-13 RATED ELECTROSTATICALLY SHIELDED ISOLATION TRANSFORMER WITH COPPER WINDINGS, DOUBLE SIZE NEUTRAL TERMINAL, AND ADDITIONAL TRANSIENT VOLTAGE SURGE SUPPRESSION. TRANSFORMER SHALL NOT BE LOCATED WITHIN 14 FEED OF AV EQUIPMENT LOCATIONS.

QTY: 10 (120VAC 20-AMP SINGLE PHASE)

POWER CIRCUITS ASSOCIATED WITH SOUND/AV SYSTEMS FROM DEDICATED POWER TRANSFORMER AND DISTRIBUTION PANEL.

AVERAGE CURRENT DRAW AND HEAT LOADS ASSOCIATED WITH SOUND/AV SYSTEMS IN OPERATION WITH TYPICAL PROGRAM MATERIAL WITH OCCASIONAL CLIPPING:

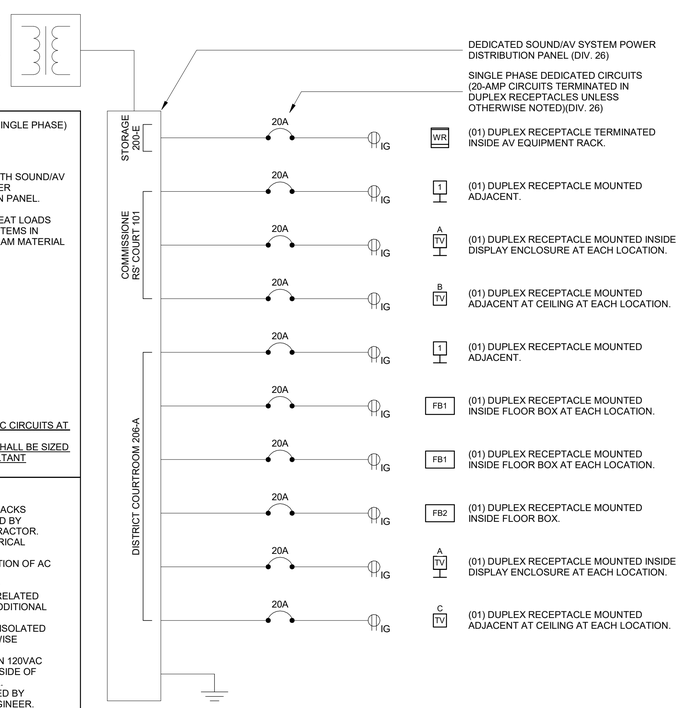
CURRENT DRAW:
40 AMPS AT 120VAC

HEAT LOAD(S):
2,100 BTU/HR AT STORAGE 200-E

CURRENT DRAW BASED ON 120VAC CIRCUITS AT SECONDARY SIDE OF ISOLATION TRANSFORMER. TRANSFORMER SHALL BE SIZED BY PROJECT ELECTRICAL CONSULTANT

NOTES:

1. POWER OUTLETS INSIDE RACKS FURNISHED AND INSTALLED BY DIV. 26 ELECTRICAL CONTRACTOR.
2. COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT LOCATIONS AND TERMINATION OF AC POWER.
3. REFER TO SOUND SYSTEM SPECIFICATIONS UNDER "RELATED WORK BY OTHERS" FOR ADDITIONAL INFORMATION.
4. ALL CIRCUITS ARE 20 AMP ISOLATED GROUND UNLESS OTHERWISE NOTED.
5. CURRENT DRAW BASED ON 120VAC CIRCUITS AT SECONDARY SIDE OF ISOLATION TRANSFORMER. TRANSFORMER TO BE SIZED BY PROJECT ELECTRICAL ENGINEER.
6. CURRENT DRAW AND HEAT LOAD FOR EACH SYSTEM SHOWN REPRESENT AVERAGE LOADS FOR SOUND SYSTEMS IN OPERATION WITH PROGRAM MATERIAL AT TYPICAL MAXIMUM LEVEL OPERATION.
7. OUTBOARD PLUG-IN POWER SEQUENCING SYSTEM FURNISHED AND INSTALLED BY DIV. 274115 AV INSTALLER.



ELECTRICAL & CONDUIT INSTALLATION NOTES

1. ALL 120VAC POWER CONDUCTORS, POWER DISTRIBUTION PANELS, JUNCTION BOXES, TERMINAL PANELS, CONDUITS, WIREWAYS, POWER RECEPTACLES AND ALL OTHER DEVICES ASSOCIATED WITH 120VAC POWER CIRCUITS SHALL BE FURNISHED, INSTALLED AND TERMINATED UNDER DIVISION 26 UNLESS OTHERWISE NOTED.
2. ALL CONDUIT SHOWN IS FOR AUDIO/VISUAL AND SOUND REINFORCEMENT SYSTEMS AND IS NOT RELATED TO ANY CONDUIT FOR AC POWER.
3. ALL CONDUIT IS 3/4" EMT UNLESS OTHERWISE NOTED.
4. ALL CONDUIT CONNECTIONS SHALL BE FURNISHED WITH NYLON BUSHINGS TO PREVENT DAMAGE TO CABLES FROM BURRED OR UNEVENLY CUT CONDUIT.
5. USE INSULATED BUSHINGS TO CONNECT CONDUIT TO EQUIPMENT RACKS, TO INSULATE CONDUIT GROUND FROM EQUIPMENT RACK GROUND SYSTEM.
6. KEEP 90° BENDS TO A MINIMUM. THE CONDUIT SYSTEM SHALL NOT HAVE MORE THAN THREE 90° BENDS OR THEIR EQUIVALENT BETWEEN PULL BOXES.
7. ALL PULL BOXES AND OUTLET BOXES SHALL BE AT LEAST 3-1/2" DEEP.
8. ALL CONDUIT RUNS IN EXCESS OF 100 FEET SHALL HAVE INTERMEDIATE JUNCTION BOXES EVERY 100 FEET OR THREE BENDS, WHICHEVER COMES FIRST.
9. ALL AUDIO/VISUAL SYSTEM RELATED JUNCTION BOXES SHALL REMAIN ACCESSIBLE AT ALL TIMES.
10. INSTALL NYLON PULL STRINGS IN ALL EMPTY CONDUITS.
11. CAULK OR OTHERWISE SEAL ALL PENETRATIONS THROUGH ACOUSTICAL PARTITIONS AND BARRIERS.
12. ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND ASSEMBLIES SHALL BE SEALED WITH FIRESTOP MATERIAL PER APPLICABLE CODE. REFER TO DIVISION 7.
13. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL DRAWINGS FOR ALL 120VAC CONDUIT SIZING.
14. ELECTRICAL CONTRACTOR SHALL REFER TO OTHER DRAWINGS FOR NON-AUDIO/VISUAL SYSTEM RELATED ELECTRICAL INFORMATION FOR THESE AREAS. AUDIO/VISUAL SYSTEM DRAWINGS DO NOT CONTAIN ALL ROOM ELECTRICAL REQUIREMENTS.
15. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE ALL HIGH VOLTAGE DEVICES.
16. ALL POWER CIRCUITS SHALL BE 120VAC, 20 AMP DEDICATED CIRCUITS UNLESS OTHERWISE NOTED.
17. ELECTRICAL CONTRACTOR SHALL LABEL ALL CIRCUIT BREAKER POSITIONS IN ALL BREAKER PANELS.
18. INSTALL SEPARATE DEDICATED NEUTRAL CONDUCTOR FROM POWER DISTRIBUTION PANEL FOR EACH INDIVIDUAL CIRCUIT.
19. ALLOW MINIMUM 20% SPARE BREAKERS FOR EACH POWER DISTRIBUTION PANEL.
20. 120VAC POWER TO THE EQUIPMENT RACKS SHALL BE TERMINATED INSIDE THE RACKS BY DIV. 26 TO AUDIO/VISUAL SYSTEM SUBCONTRACTOR-SUPPLIED RACEWAY OUTLETS.
21. CLEARLY LABEL BREAKER PANEL DOOR "AUDIO/VISUAL SYSTEM EQUIPMENT ONLY".
22. INTEGRATED RECESSED LOUDSPEAKER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY THE AUDIO/VISUAL SYSTEMS CONTRACTOR. SHOULD SUBSTITUTE EQUIPMENT BE PROVIDED BY THE AV CONTRACTOR THAT REQUIRE THE USE OF DEDICATED SEPARATE LOUDSPEAKER BACK-CANS, THE AV CONTRACTOR SHALL SUPPLY SUCH DEVICES TO DIV. 26 FOR INSTALLATION.
23. ALL COMMON ENCLOSURES AND JUNCTION BOXES ASSOCIATED WITH AUDIOVISUAL SCOPES OF WORK, AS CALLED OUT IN THE AUDIOVISUAL DEVICE LEGEND, SHALL BE PROVIDED AND INSTALLED BY DIV. 26, UNLESS EXPLICITLY NOTED OTHERWISE.
24. SPECIALTY ENCLOSURES AND INFRASTRUCTURE DEVICES ASSOCIATED WITH AUDIOVISUAL SCOPES OF WORK, AS CALLED OUT IN THE AUDIOVISUAL DEVICE LEGEND AND EXPLICITLY SPECIFIED IN SECTION 270534, SHALL BE PROVIDED BY DIV. 270534 TO DIV. 26 FOR INSTALLATION.
25. REFER TO "RELATED WORK IN OTHER SECTIONS" IN AUDIO/VISUAL SYSTEM SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
26. CONDUIT SHALL BE REQUIRED BETWEEN ANY AND ALL LOUDSPEAKERS. WHERE PLENUN-RATED LOUDSPEAKER CABLE IS ALLOWED BY CODE, THIS CONSULTANT WILL CONSIDER SUBSTITUTION REQUESTS SUBMITTED FORMALLY BY THE CONSTRUCTION TEAM, APPROVAL OF WHICH IS SUBJECT TO THE BEST INTERESTS OF THE PROJECT.
27. WIRE NOT INSTALLED IN EQUIPMENT RACKS, NOT PORTABLE, OR NOT INSTALLED IN CONDUIT SHALL BE FIRE-RATED AND MEET ALL APPLICABLE CODES.

ADVISORY AUDIOVISUAL DATA DROP REQUIREMENTS

DEVICE / LOCATION	QTY AV-NET DATA CIRCUITS	QTY ETHERNET DATA CIRCUITS	DESCRIPTION
1	1	1	DIV. 274115: PROVIDE AND TERMINATE 1EA. CONNECTORIZED AV-NET DATA CABLE. TECHNOLOGY: PROVIDE AND TERMINATE 1EA. BUILDING NETWORK DATA JACK, ADJACENT.
2	1	0	DIV. 274115: PROVIDE AND TERMINATE 1EA. CONNECTORIZED AV-NET DATA CABLE. TECHNOLOGY: N/A.
AL	2	0	DIV. 274115: PROVIDE AND TERMINATE 2EA. CONNECTORIZED AV-NET DATA CABLES. TECHNOLOGY: N/A.
C	1	0	DIV. 274115: PROVIDE AND TERMINATE 1EA. CONNECTORIZED AV-NET DATA CABLE. TECHNOLOGY: N/A.
CA	1	0	DIV. 274115: PROVIDE AND TERMINATE 1EA. CONNECTORIZED AV-NET DATA CABLE. TECHNOLOGY: N/A.
FB1	1	0	DIV. 274115: PROVIDE AND TERMINATE 1EA. AV-NET DATA JACK. TECHNOLOGY: N/A.
FB2	2	1	DIV. 274115: PROVIDE AND TERMINATE 1EA. CONNECTORIZED AV-NET DATA CABLE AND 1EA. AV-NET DATA JACK. TECHNOLOGY: PROVIDE AND TERMINATE 1EA. BUILDING NETWORK DATA JACK INSIDE AV FLOOR BOX.
A TV	1	0	DIV. 274115: PROVIDE AND TERMINATE 1EA. CONNECTORIZED AV-NET DATA CABLE. TECHNOLOGY: N/A.
B TV	1	0	DIV. 274115: PROVIDE AND TERMINATE 1EA. CONNECTORIZED AV-NET DATA CABLE. TECHNOLOGY: N/A.
C TV	1	0	DIV. 274115: PROVIDE AND TERMINATE 1EA. CONNECTORIZED AV-NET DATA CABLE. TECHNOLOGY: N/A.
WR	*	1	DIV. 274115: TERMINATE ALL LOCAL AND REMOTE AV-NET DATA CABLES AT AV EQUIPMENT RACK AV NETWORK SWITCH. TECHNOLOGY: PROVIDE AND TERMINATE 1EA. BUILDING NETWORK DATA JACK INSIDE EQUIPMENT RACK.

NOTES:

* : SEE AV ONELINE DIAGRAMS FOR QUANTITIES OF EACH CIRCUIT TYPE TERMINATING AT EACH EQUIPMENT LOCATION.

ETHERNET: COMMON BUILDING DATA NETWORK. PROVIDED AND INSTALLED BY TECHNOLOGY/DATA VENDOR.

AV-NET : DEDICATED DATA NETWORK FOR AV STREAMING DATA. PROVIDED AND INSTALLED BY DIV. 274115.

1. IN CONTEXT OF THE AUDIOVISUAL DOCUMENTS, THE BUILDING DATA "ETHERNET" NETWORK IS USED BY AV SYSTEMS FOR INTRANET AND INTERNET DATA ACCESS (WHERE REQUIRED, APPROPRIATE, AND/OR PERMITTED BY THE OWNER), AND IS SEPARATE AND DISTINCT FROM THE "AV-NET" DEDICATED AV NETWORK PROVIDED AND INSTALLED BY DIV. 274115 FOR USE IN DISTRIBUTION OF DIGITAL AUDIO, AUDIOVISUAL, AND CONTROL SIGNALS (AS DETAILED IN THE AUDIOVISUAL CONTRACT DOCUMENTS). THE INSTALLATION AND IMPLEMENTATION OF THE BUILDING DATA "ETHERNET" NETWORK IS BEYOND DIV. 274115 SCOPE AND IS PROVIDED BY THE PROJECT TECHNOLOGY/DATA VENDOR UNDER SEPARATE SPECIFICATION. DIV. 274115 SHALL COORDINATE WITH FACILITY IT STAFF FOR CONFIGURATION AND ACCESS PARAMETERS.
2. ALL DATA CABLING SHOWN TO BE PROVIDED BY DIV. 274115 AUDIOVISUAL CONTRACTOR UNLESS EXPLICITLY NOTED OTHERWISE.
3. WHERE DATA CABLING IS NOTED TO BE PROVIDED BY DATACOMM/TECHNOLOGY VENDOR, COORDINATE AS REQUIRED.
4. ALL COPPER DATA CABLING AND CONNECTORS SHALL BE CAT6A RATED.
5. AV CONTRACTOR SHALL VERIFY ALL ETHERNET-BASED DEVICES ASSOCIATED WITH AUDIOVISUAL SYSTEMS ARE WITHIN ETHERNET DISTANCE LIMITATIONS FOR THE FULL LENGTH OF EACH CABLE RUN, TO INCLUDE PATCH CABLE LENGTHS. COORDINATE WITH ELECTRICAL INSTALLER REGARDING PATHWAY AND CABLE ROUTING FOR MOST DIRECT ROUTE FROM DEVICE TO TERMINATION POINT.
6. REFER TO AUDIOVISUAL INFRASTRUCTURE DRAWINGS IN THIS DRAWING SET FOR ALL DEVICE LOCATIONS.
7. REFER TO DATA ADVISORIES FOR TECHNOLOGY/DATA VENDOR-SUPPLIED BUILDING LAN OUTLETS ASSOCIATED WITH AUDIOVISUAL DEVICE PLATES / LOCATIONS.

AUDIOVISUAL SHEET LIST

NUMBER	NAME
AV-001	AUDIOVISUAL NOTES AND COORDINATION ADVISORIES
AV-002	AUDIOVISUAL LEGEND AND CONDUIT RISER
AV-003	AUDIOVISUAL DETAILS
AV-004	AUDIOVISUAL DETAILS
AV-005	AUDIOVISUAL DETAILS
AV-101	AUDIOVISUAL FIRST FLOOR PLAN
AV-102	AUDIOVISUAL SECOND FLOOR PLAN
AV-105	AUDIOVISUAL FIRST FLOOR RCP
AV-106	AUDIOVISUAL SECOND FLOOR RCP
AV-300	AUDIOVISUAL BUILDING SECTIONS
AV-301	AUDIOVISUAL BUILDING SECTIONS
AV-400	AUDIOVISUAL CONNECTOR LEGEND AND PLATE NOTES
AV-401	AUDIOVISUAL PLATE DETAILS
AV-501	AUDIOVISUAL RACK ELEVATIONS
AV-601	AUDIOVISUAL ONELINE DIAGRAM
AV-602	AUDIOVISUAL ONELINE DIAGRAM

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10/23/2025

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL NOTES AND COORDINATION ADVISORIES

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-001

11/11/2025 11:37:50 AM

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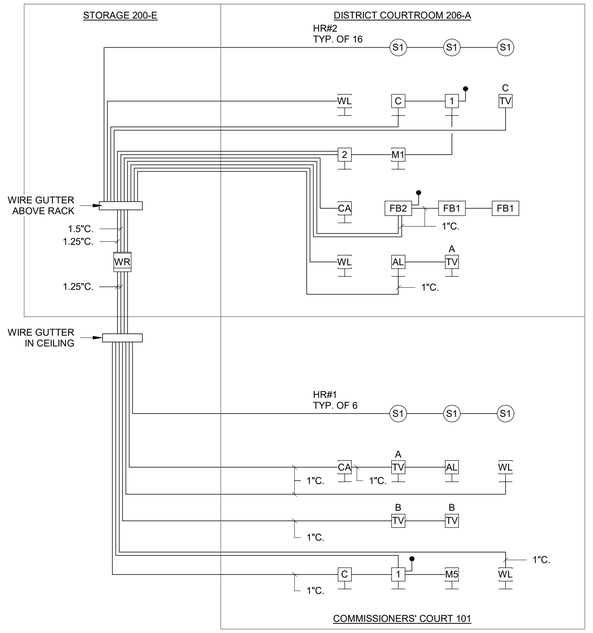
AUDIOVISUAL DEVICE LEGEND

DEVICE TYPE	DESCRIPTION	SEE ADVISORY POWER RISER	SEE ADVISORY DATA SCHEDULE
1	ENCLOSURE: 3-GANG, 3-1/2" DEEP BOX. MOUNTING: RECESS IN WALL AT 1'-6" A.F.F. PANEL: CUSTOM 3-GANG PLATE. RE: DETAILS. DEVICE(S): 1 MIC IN, HDMI VIDEO ENCODER WALL PLATE.	X	X
2	ENCLOSURE: FSR, INC. SMWB-2G-BLK 2-GANG SURFACE-MOUNT WALL BOX. MOUNTING: SURFACE MOUNT AT 1'-6" A.F.F. PANEL: CUSTOM 2-GANG PLATE. RE: DETAILS. DEVICE(S): 1 MICROPHONE JACK, 1 AV-NET DATA JACK.		X
AL	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX. MOUNTING: RECESS IN WALL AT HEIGHTS NOTED IN DRAWINGS. PANEL: MANUFACTURER'S MOUNTING ADAPTOR BRACKET. DEVICE(S): ASSISTIVE LISTENING TRANSMITTER.		X
C	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX. MOUNTING: RECESS IN WALL AT 4'-0" A.F.F. PANEL: MANUFACTURER'S MOUNTING ADAPTOR BRACKET. DEVICE(S): 7" TOUCH CONTROL SCREEN.		X
CA	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX. MOUNTING: RECESS IN WALL AT HEIGHTS NOTED IN DRAWINGS. PANEL: MANUFACTURER'S MOUNTING ADAPTOR BRACKET. DEVICE(S): PAN-TILT-ZOOM (PTZ) VIDEO CAMERA.		X
FB1	ENCLOSURE: FSR, INC. FL-200-3 3" DEPTH FLOOR BOX. MOUNTING: RECESS IN FLOOR. COORDINATE EXACT PLACEMENT WITH ARCHITECT AT EACH LOCATION. PANEL: DECORA-SIZE INSERT MODULES. DEVICE(S): 1 AV-NET DATA JACK.	X	X
FB2	ENCLOSURE: FSR, INC. FL-400-5 5" DEPTH FLOOR BOX. MOUNTING: RECESS IN FLOOR. COORDINATE EXACT PLACEMENT WITH ARCHITECT AT EACH LOCATION. PANEL: CUSTOM GANG SIZE INSERT PLATES. RE: DETAILS. DEVICE(S): 2 MIC IN, HDMI VIDEO ENCODER MODULE, AV-NET DATA JACK.	X	X
M1	ENCLOSURE: FSR, INC. SMWB-1G-BLK 1-GANG SURFACE-MOUNT WALL BOX MOUNTING: SURFACE MOUNT AT 1'-6" A.F.F. PANEL: CUSTOM 1-GANG PLATE. RE: DETAILS. DEVICE(S): 1 MICROPHONE JACK.		
M5	ENCLOSURE: 3-GANG, 3-1/2" DEEP BOX. MOUNTING: RECESS IN WALL AT 1'-6" A.F.F. PANEL: CUSTOM 3-GANG PLATE. RE: DETAILS. DEVICE(S): 5 MICROPHONE JACKS.		
S1	ENCLOSURE: ELECTROVOICE EVID-C6.2-G2 CEILING-RECESSED LOUDSPEAKER ASSEMBLY. MOUNTING: RECESS IN CEILING. PANEL: MANUFACTURER'S GRILLE. DEVICE(S): ELECTROVOICE EVID-C6.2-G2 6.5" 70V CEILING-RECESSED LOUDSPEAKER ASSEMBLY.		
A TV	ENCLOSURE: CHIEF MFG. PAC525FC IN-WALL DISPLAY ENCLOSURE. MOUNTING: RECESS IN WALL AT 6'-0" A.F.F. PANEL: N/A. SIGNAL CONDUIT STUBBED INTO ENCLOSURE - PROVIDE CONDUIT BUSHINGS. DEVICE(S): WALL-MOUNTED 65" FLAT PANEL DISPLAY.	X	X
B TV	ENCLOSURE: 1-GANG, 3-1/2" DEEP BOX. MOUNTING: RECESS IN CEILING. PANEL: ARLINGTON CED-135 BRUSH GROMMET INSERT WITH MATCHING DECORA COVER PLATE. DEVICE(S): CEILING-MOUNTED 65" FLAT PANEL DISPLAY.	X	X
C TV	ENCLOSURE: 1-GANG, 3-1/2" DEEP BOX. MOUNTING: RECESS IN CEILING. PANEL: ARLINGTON CED-135 BRUSH GROMMET INSERT WITH MATCHING DECORA COVER PLATE. DEVICE(S): CEILING-MOUNTED FLAT 85" PANEL DISPLAY.	X	X
WL	ENCLOSURE: 2-GANG, 3-1/2" DEEP BOX. MOUNTING: RECESS IN WALL AT HEIGHTS NOTED IN DRAWINGS. PANEL: MANUFACTURER'S MOUNTING ADAPTOR BRACKET. DEVICE(S): WIRELESS MICROPHONE ANTENNA.		
WR	ENCLOSURE: WALL-MOUNTED AUDIOVISUAL EQUIPMENT RACK. MOUNTING: WALL. RE: DETAIL. PANEL: STANDARD 19" RACK PANEL EQUIPMENT, BY DIV. 274115. PROVIDE BLANK PANELS FOR ALL UNPOPULATED RACK SPACES. DEVICE(S): WALL-MOUNTED AUDIOVISUAL EQUIPMENT RACK. RE: SECTION 274115 FOR MODEL / SIZE AND CONFIGURATION OPTIONS REQUIRED.	X	X



1 AUDIOVISUAL CONDUIT RISER DIAGRAM

12" = 1'-0"

CONDUIT NOTES

1. ALL CONDUIT IS EMT UNLESS OTHERWISE NOTED.
2. CONDUIT SIZE IS 3/4" UNLESS OTHERWISE NOTED.
3. CONDUIT STUBBED INTO NEAREST IT ROOM OR ACCESSIBLE CABLE TRAY TO FACILITATE CONNECTION TO BUILDING DATA NETWORK. PROVIDE J-HOOKS FOR SUPPORT OF PLENUM CABLING WHERE NO CABLE TRAY EXISTS. PROVIDE FIRE-RATED PENETRATIONS THROUGH WALLS AND FLOORS, WHERE REQUIRED, PER APPLICABLE CODE. ALL CONDUIT STUB-UPS ARE 1" CONDUIT UNLESS OTHERWISE NOTED.
4. ALL IN-SLAB AND BELOW-GRADE CONDUITS SHALL BE METALLIC CONDUIT (EMT OR IMC, AS REQUIRED BY SUPERSEDING CODE)
5. MIN. 8" SWEEP RADIUS ON ALL CONDUIT BENDS FOR CONDUITS 2" AND SMALLER. NO RIGID 90° BENDS SHALL BE ALLOWED.
6. FIELD-COORDINATE ALL CONDUIT ROUTING. CONDUITS SHALL BE ROUTED THE MOST DIRECT ROUTED POSSIBLE.
7. MINIMIZE ANY EXPOSED CONDUIT; VERIFY ROUTING OF ANY EXPOSED CONDUIT WITH ARCH. PRIOR TO INSTALLATION.
8. COORDINATION REQUIRED BETWEEN ELECTRICAL AND AUDIOVISUAL REGARDING WALL/FLOOR PENETRATIONS OR CORES ASSOCIATED WITH AUDIOVISUAL SYSTEM DEVICES. ALL PENETRATIONS IN ACOUSTICALLY SENSITIVE AREAS TO BE SEALED WITH RESILIENT CAULK. PROVIDE FIRE-RATED SEALANT AS/WHERE REQUIRED BY SUPERSEDING CODE.
9. CONFORM TO ALL PROJECT REQUIREMENTS AND ALL LOCAL, OR OTHERWISE SUPERSEDING, CODES PERTAINING TO ACCEPTABLE AND/OR APPROVED MATERIALS FOR CONDUITS AND PATHWAYS INSTALLED BELOW GRADE, TO INCLUDE ACCESSORIES REQUIRED FOR MOUNTING, COUPLING, AND OTHERWISE REQUIRED FOR A COMPLETE PATHWAY SYSTEM.

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10/23/2025

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL LEGEND AND CONDUIT RISER

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-002

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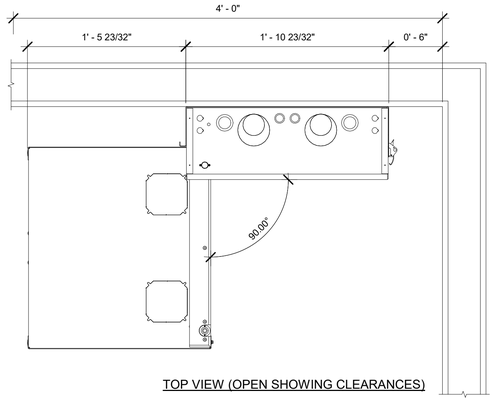
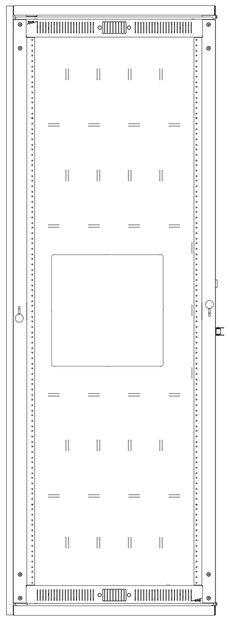
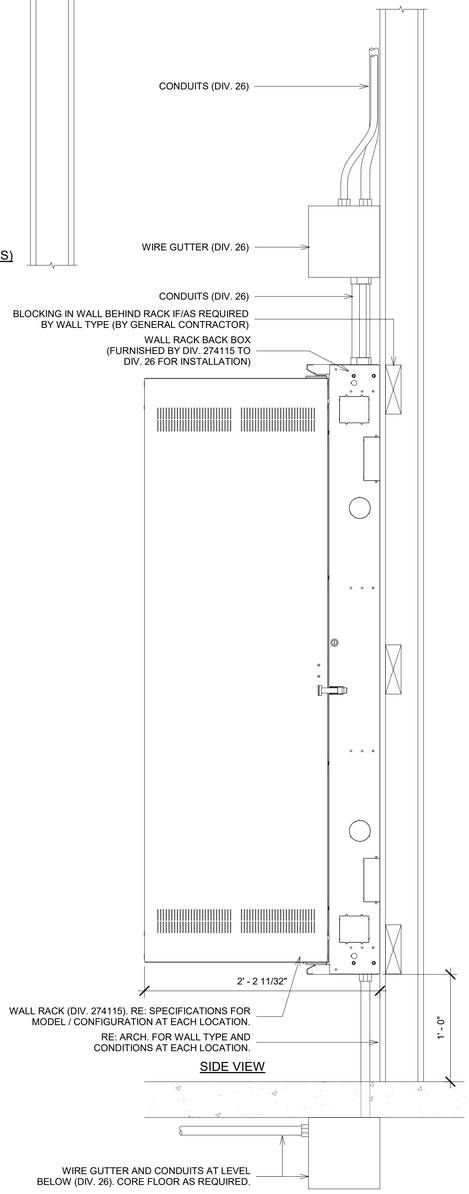


TOP VIEW (OPEN SHOWING CLEARANCES)



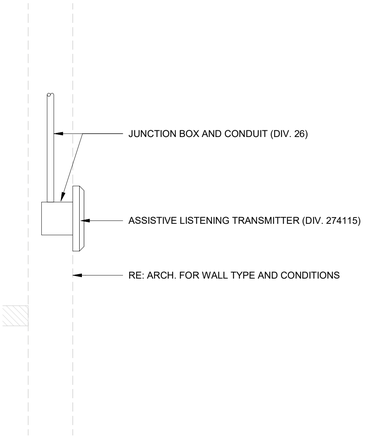
FRONT VIEW



SIDE VIEW

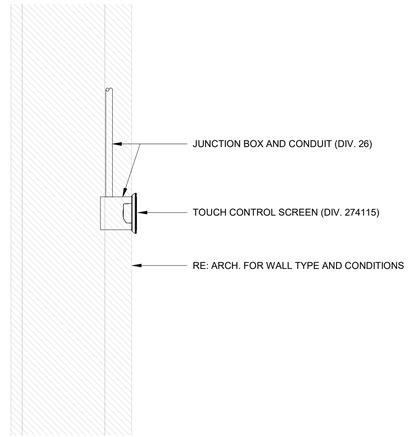
1 DETAIL - TYPE WR AV EQUIPMENT WALL RACK

1 1/2" = 1'-0"



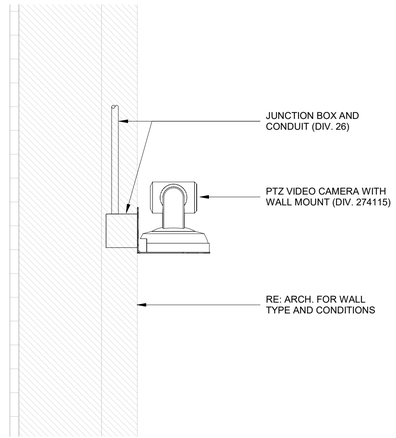
2 DETAIL - TYPE AL ASSISTIVE LISTENING ANTENNA

1 1/2" = 1'-0"



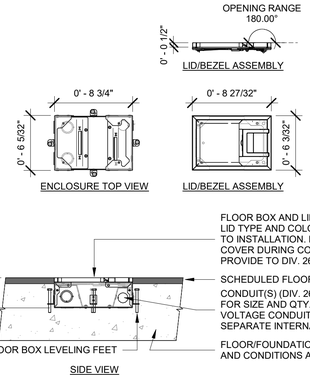
3 DETAIL - TYPE C 7" TOUCH CONTROL SCREEN

1 1/2" = 1'-0"



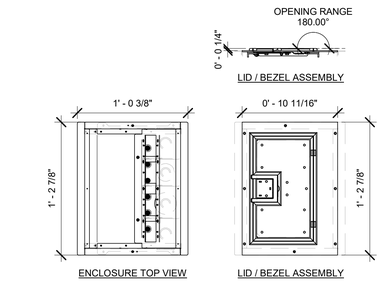
4 DETAIL - TYPE CA VIDEO CAMERA

1 1/2" = 1'-0"



5 AV DETAIL - TYPE FB1 AV FLOOR BOX

1 1/2" = 1'-0"



6 AV DETAIL - TYPE FB2 AV FLOOR BOX

1 1/2" = 1'-0"

Fisher Heck ARCHITECTS
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SAN ANTONIO, TEXAS
FISHERHECK.COM
210-299-1500

10/23/2025

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL DETAILS

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: AV-003

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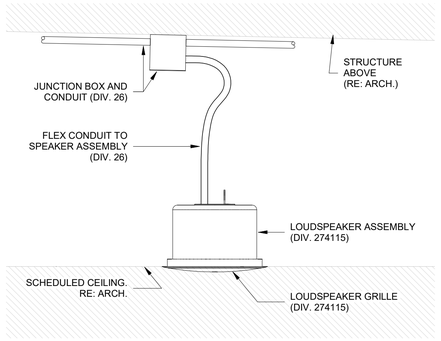
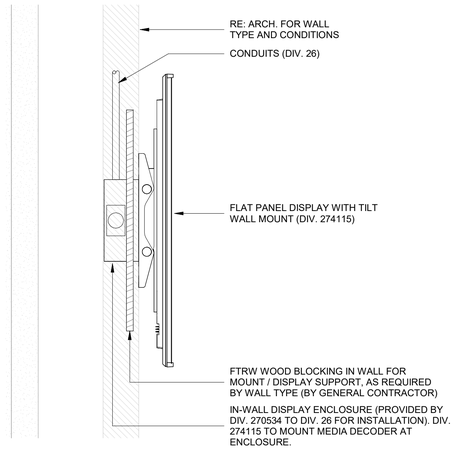


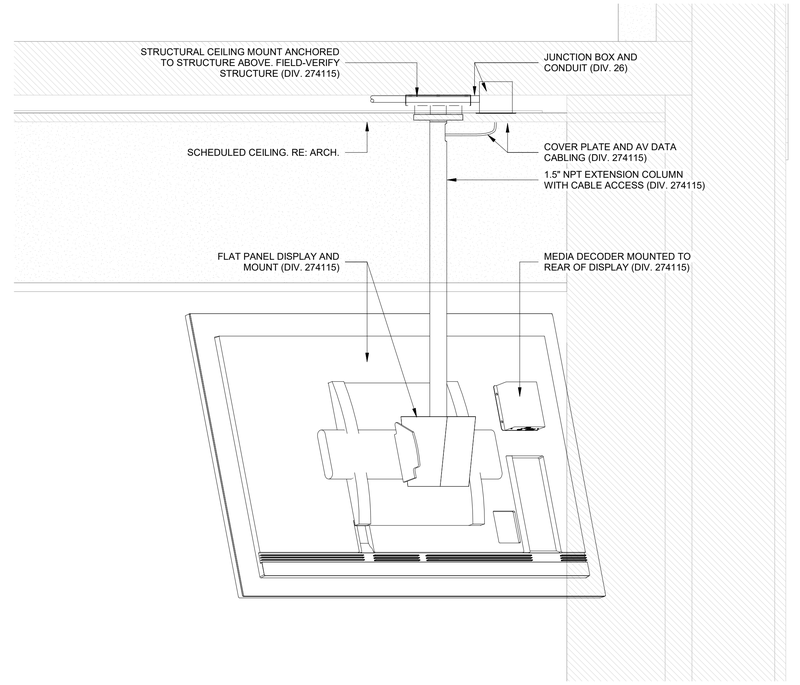
1 DETAIL - TYPE S1 CEILING SPEAKER

1 1/2" = 1'-0"



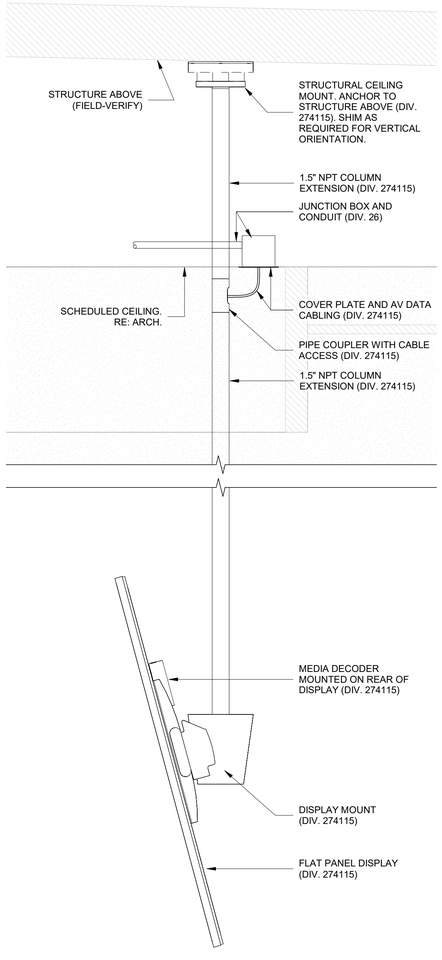
2 DETAIL - TYPE TV-A FLAT PANEL DISPLAY

1 1/2" = 1'-0"



3 DETAIL - TYPE TV-B FLAT PANEL DISPLAY

1 1/2" = 1'-0"



4 DETAIL - TYPE TV-C FLAT PANEL DISPLAY

1 1/2" = 1'-0"

5 DETAIL - TYPE WL WIRELESS MIC ANTENNA

1 1/2" = 1'-0"

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10/23/2025

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL DETAILS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-004

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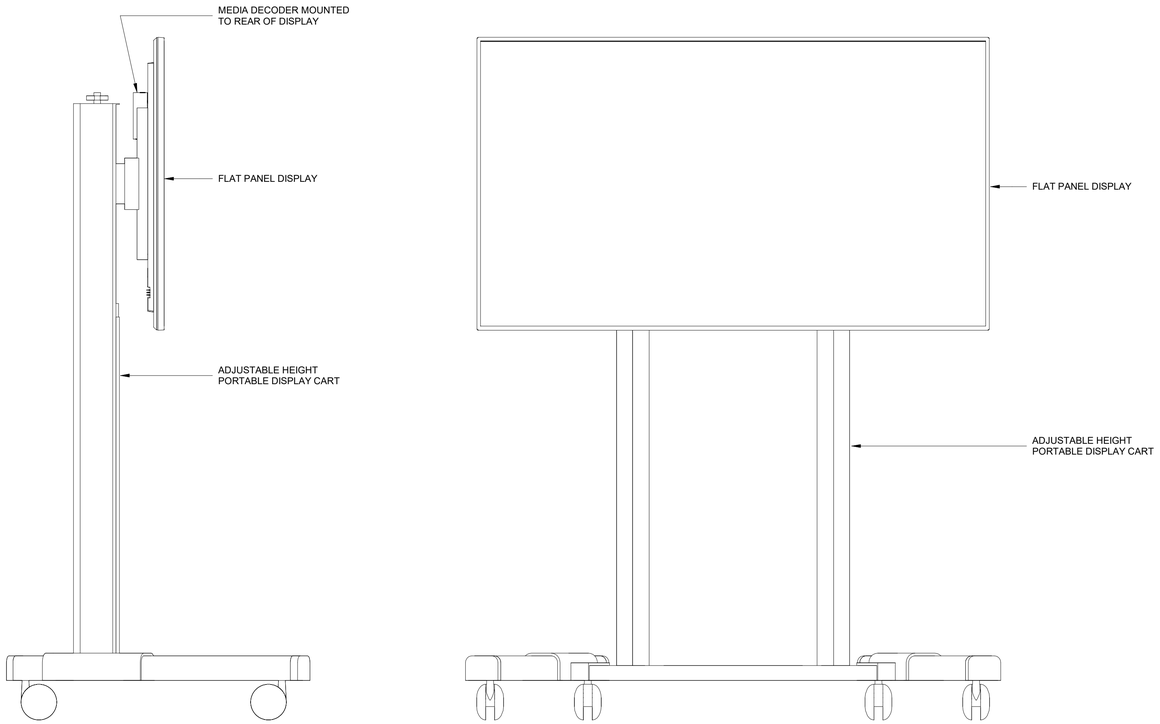

1 DETAIL - PORTABLE DISPLAY CART
1 1/2" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL DETAILS

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: AV-005

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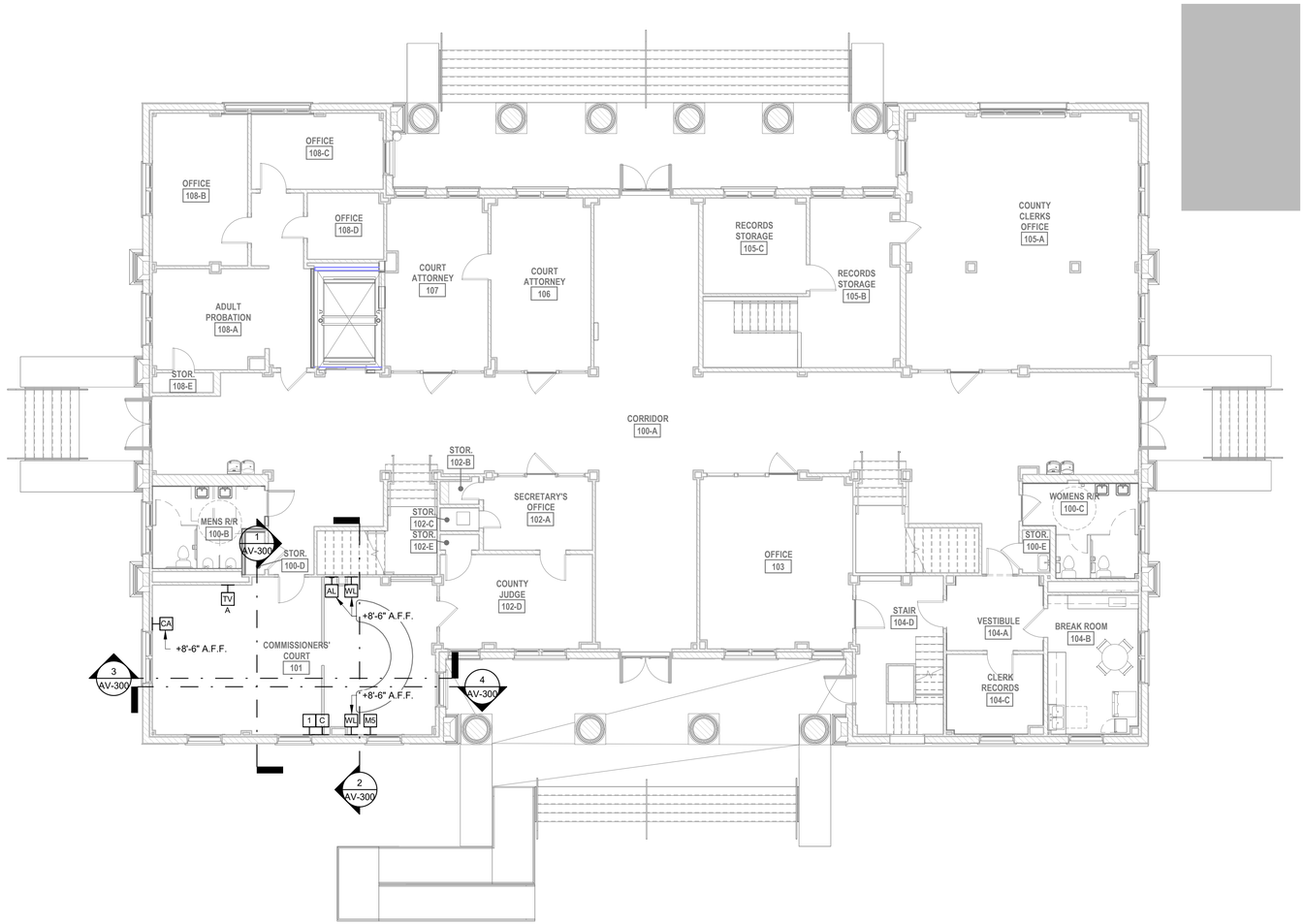

1 AUDIOVISUAL 1ST FLOOR PLAN

1/8" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL FIRST FLOOR PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-101

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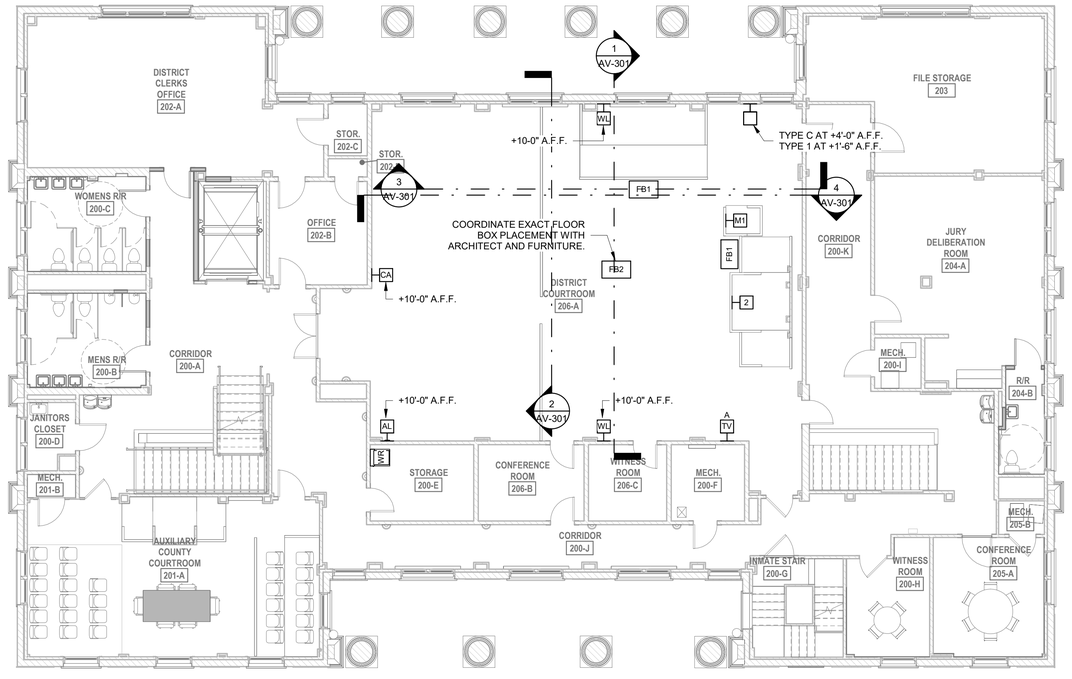

1 AUDIOVISUAL 2ND FLOOR PLAN

1/8" = 1'-0"

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10/23/2025

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL SECOND FLOOR PLAN

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-102

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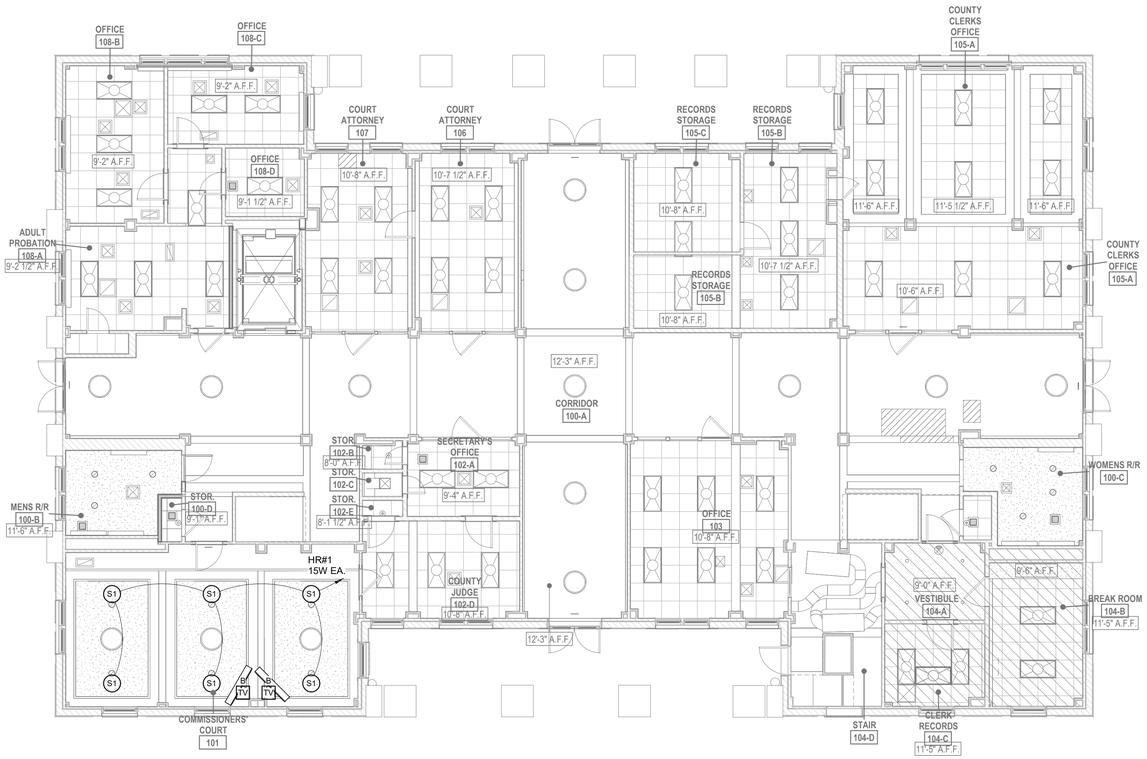

1 AUDIOVISUAL 1ST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL FIRST FLOOR RCP

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-105

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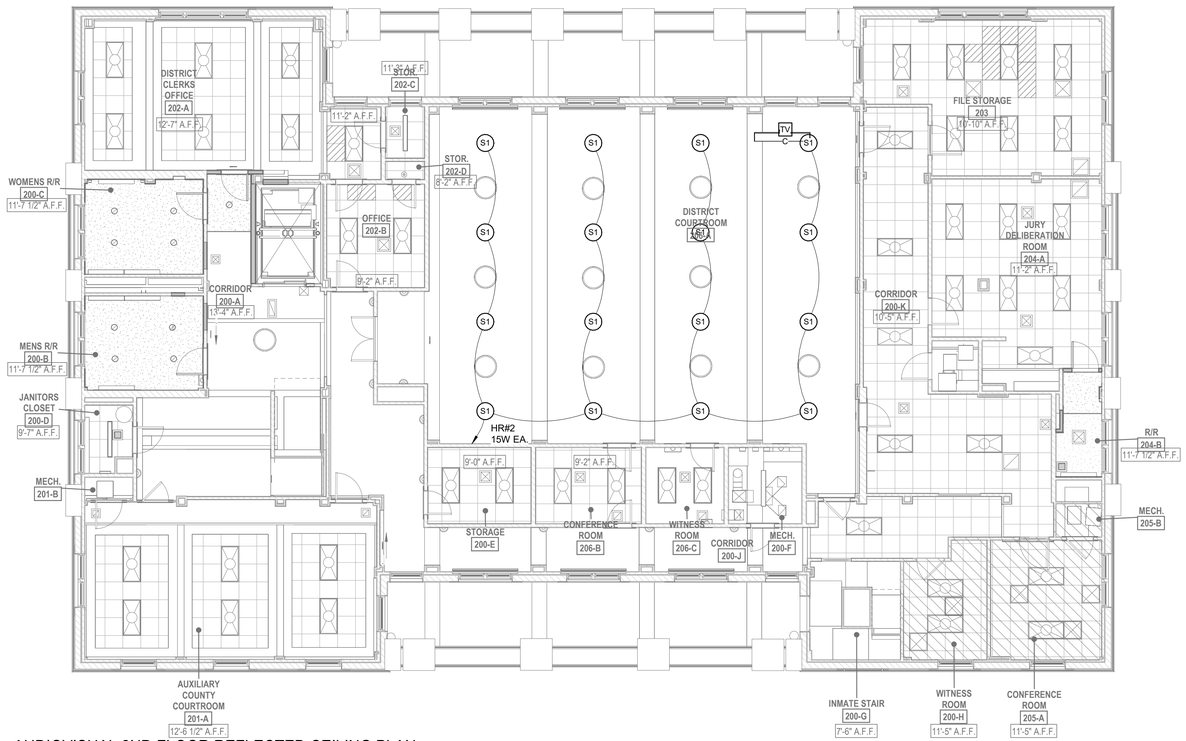

1 AUDIOVISUAL 2ND FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL SECOND FLOOR RCP

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-106

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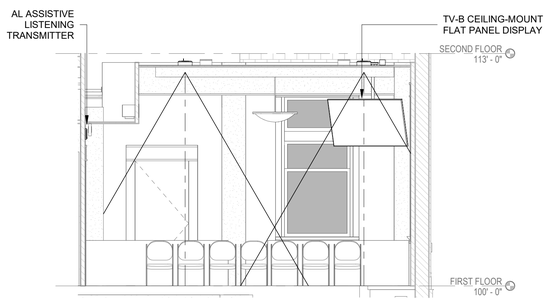
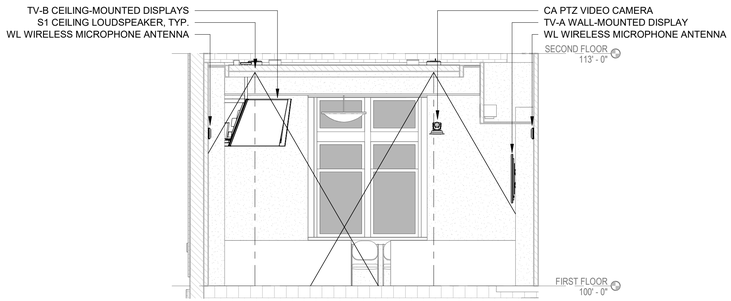
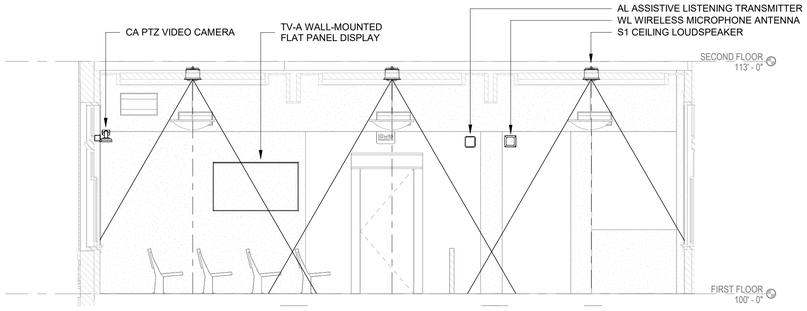


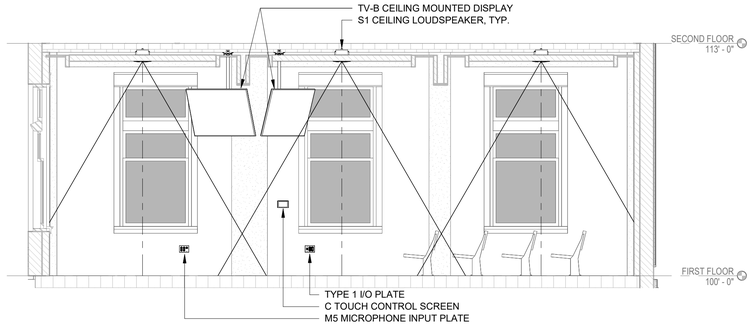
1 AUDIOVISUAL SECTION - COMMISSIONERS' COURT EAST
1/4" = 1'-0"



2 AUDIOVISUAL SECTION - COMMISSIONERS' COURT WEST
1/4" = 1'-0"



3 AUDIOVISUAL SECTION - COMMISSIONERS' COURT NORTH
1/4" = 1'-0"



4 AUDIOVISUAL SECTION - COMMISSIONERS' COURT SOUTH
1/4" = 1'-0"

5 3D - COMMISSIONERS' COURT

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL BUILDING SECTIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-300

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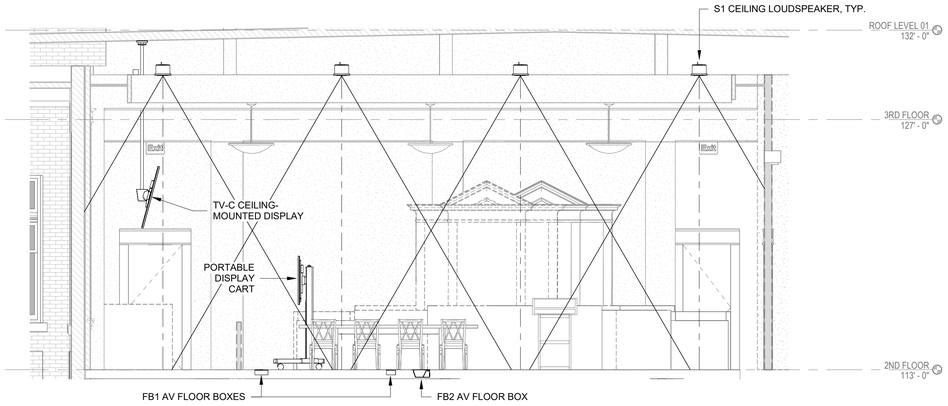
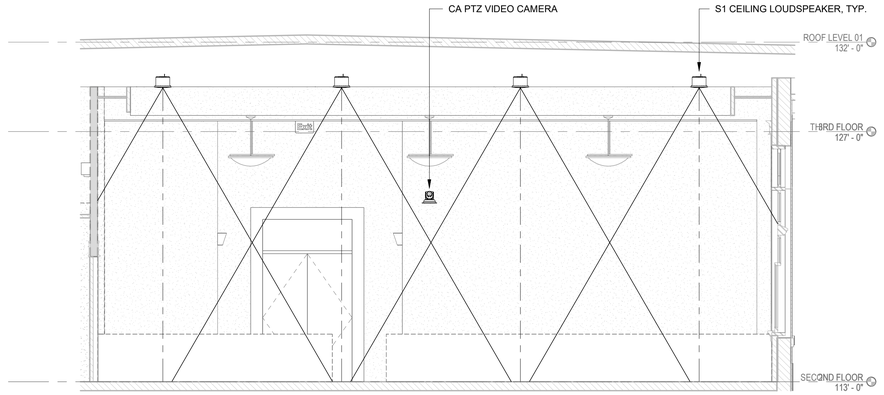


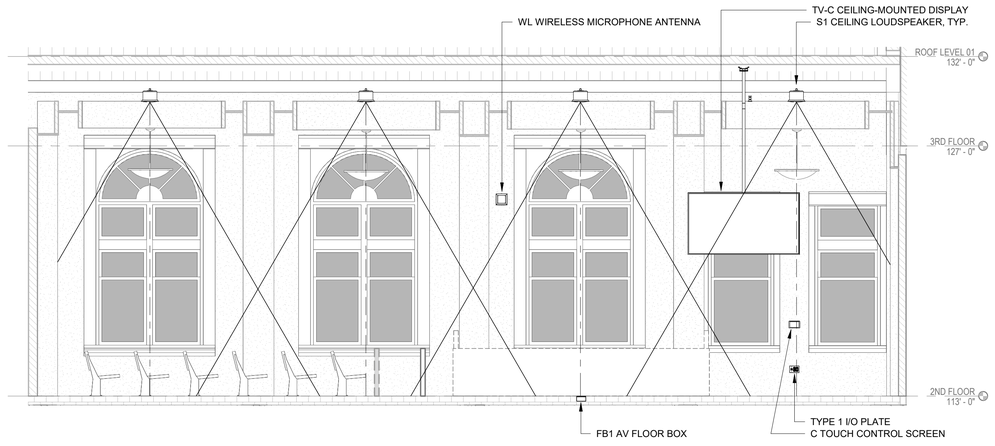
1 AUDIOVISUAL SECTION - DISTRICT COURTROOM EAST

1/4" = 1'-0"



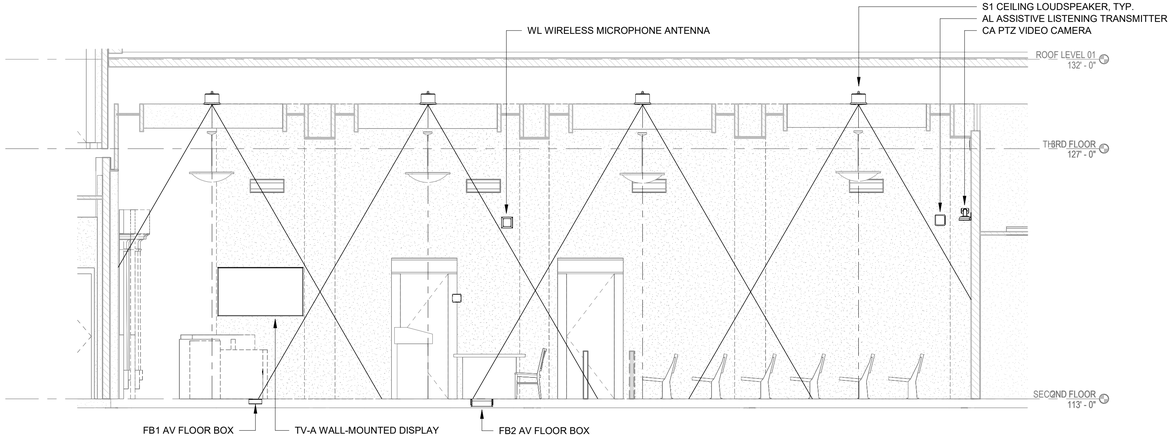
2 AUDIOVISUAL SECTION - DISTRICT COURTROOM WEST

1/4" = 1'-0"



3 AUDIOVISUAL SECTION - DISTRICT COURTROOM NORTH

1/4" = 1'-0"



4 AUDIOVISUAL SECTION - DISTRICT COURTROOM SOUTH

1/4" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL BUILDING SECTIONS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-301

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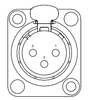
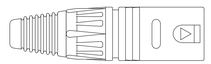
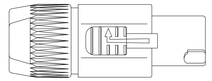
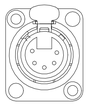
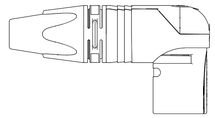
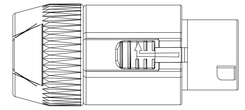
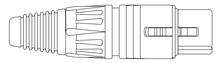
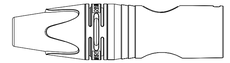
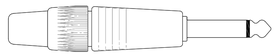
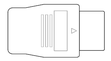
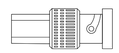
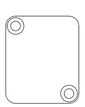
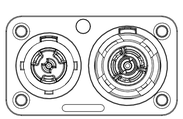
AUDIOVISUAL CONNECTOR LEGEND

	XLR FEMALE 3-PIN		CAT6A ETHERCON DATA JACK (AV-NET)		XLR MALE		SPEAKON 4-POLE
	XLR FEMALE 5-PIN		CAT6A DATA JACK (BUILDING DATA)		XLR MALE RIGHT ANGLE		SPEAKON 8-POLE
	XLR MALE 3-PIN		OPTICAL-CON DUA		XLR FEMALE		CAT6A ETHERCON DATA PLUG
	XLR MALE 6-PIN SWITCHCRAFT 6-PIN CONFIGURATION		HDMI		XLR MINI FEMALE		CAT6A DATA PLUG
	SPEAKON 4-POLE		USB-A		1/4" TRS		DB9
	SPEAKON 8-POLE		USB-C WITH 3' REAR PIGTAIL USB-C CABLE		1/4" TS		HDMI
	CABLE PASS-THROUGH GROMMET		POWERCON 20A INLET		RCA MALE		USB
	75-OHM BNC		POWERCON 20A OUTLET		TRS MINI MALE		BNC
	50-OHM BNC		POWERCON TRUE1-TOP 16A INLET		PHOENIX		FIBER OPTIC DUPLEX LC
	50-OHM TNC		POWERCON TRUE1-TOP 16A OUTLET				FIBER OPTIC SIMPLEX SC
	NEUTRIK "D" SIZE BLANK COVER		POWERCON TRUE1-TOP 16A COMBO				

AUDIOVISUAL DEVICE PLATE NOTES

1. AV CONTRACTOR SHALL FIELD-VERIFY AS-INSTALLED ENCLOSURE MODELS AND SIZES FOR ALL AUDIOVISUAL DEVICE LOCATIONS AND PROVIDE AV CONNECCTOR PLATES CORRESPONDING TO THOSE INSTALLED MODELS, SIZES, AND CONDITIONS.
2. AV CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND MAINTAIN FACTORY MOUNTING HOLE SPACING FOR ALL CUSTOM-MANUFACTURED INTERFACE PLATES.
3. AV CONTRACTOR SHALL COORDINATED WITH OTHER TRADES, AS REQUIRED, FOR DEVICE/SERVICE ALLOCATION AT LOCATIONS INDICATED.
4. REFER TO SPECIFICATION SECTION 274115 FOR SPECIFIC REQUIREMENTS.

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL CONNECTOR LEGEND AND PLATE NOTES

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-400

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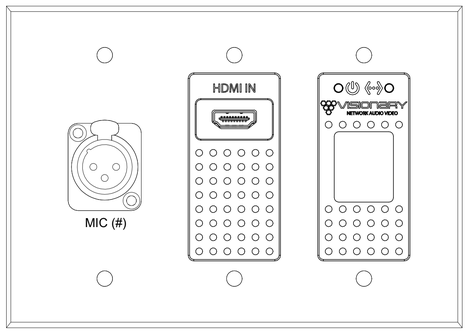
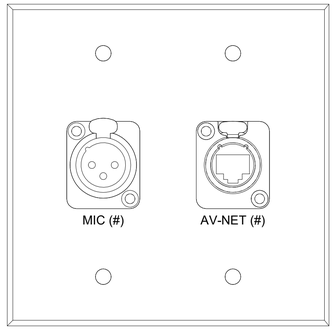
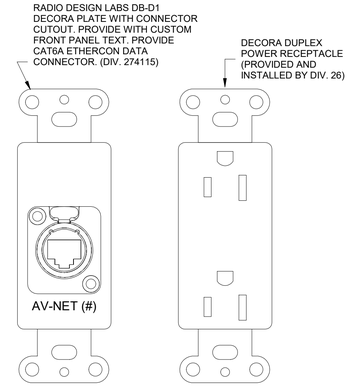


1 PLATE DETAIL - TYPE 1 I/O PLATE
12" = 1'-0"

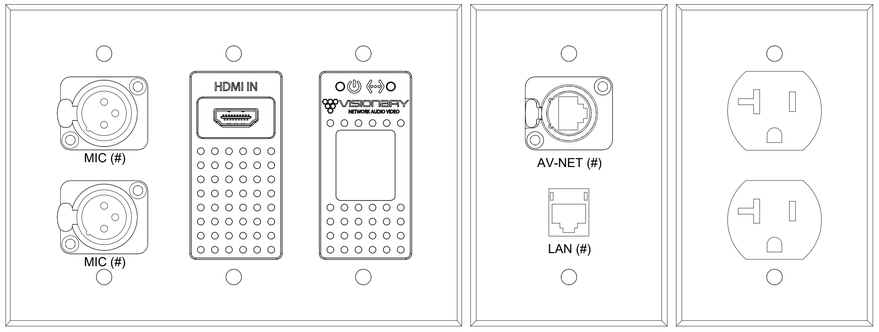


2 PLATE DETAIL - TYPE 2 I/O PLATE
12" = 1'-0"

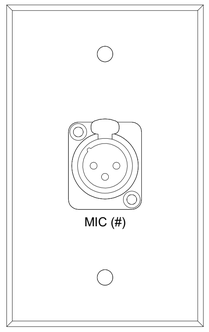
3 PLATE DETAIL - TYPE C 7" TOUCH CONTROL SCREEN
12" = 1'-0"



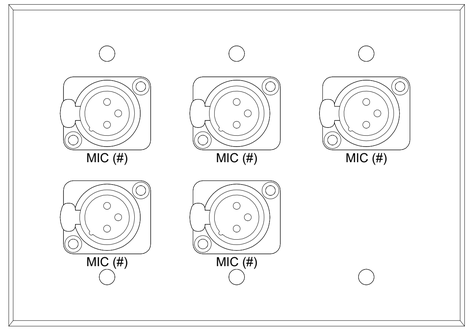
4 PLATE DETAIL - TYPE FB1 AV FLOOR BOX
12" = 1'-0"



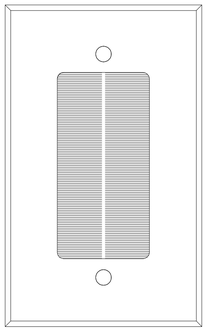
5 PLATE DETAIL - TYPE FB2 AV FLOOR BOX
12" = 1'-0"



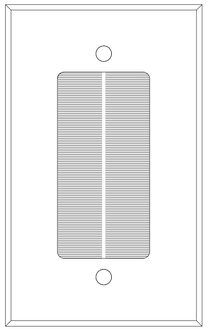
6 PLATE DETAIL - TYPE M1 MIC INPUT PLATE
12" = 1'-0"



7 PLATE DETAIL - TYPE M5 MIC INPUT PLATE
12" = 1'-0"



8 PLATE DETAIL - TYPE TV-B PLATE
12" = 1'-0"



9 PLATE DETAIL - TYPE TV-C PLATE
12" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL PLATE DETAILS

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-401

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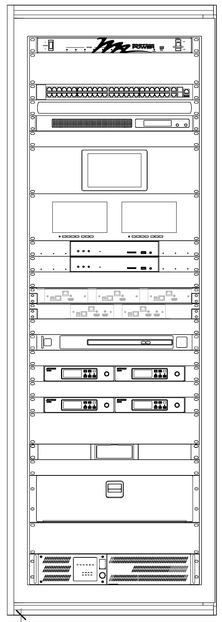


POWER SEQUENCER / DISTRIBUTION

BLANK PANEL
NETWORK SWITCH
BRUSH GROMMET PANEL
DIGITAL SIGNAL PROCESSOR (DSP)
BLANK PANEL

TOUCH CONTROL SCREEN

DUAL RACK MONITORS
VIDEO RECORDER
VIDEO RECORDER
BLANK PANEL
* MEDIA DECODERS
* MEDIA ENCODERS
BLANK PANEL
POWER DISTRIBUTION
BLANK PANEL
WIRELESS MICROPHONE RECEIVERS
BLANK PANEL
WIRELESS MICROPHONE RECEIVERS

BLANK PANEL
AUDIO POWER AMPLIFIER
BLANK PANEL

RACK STORAGE DRAWER

BLANK PANEL

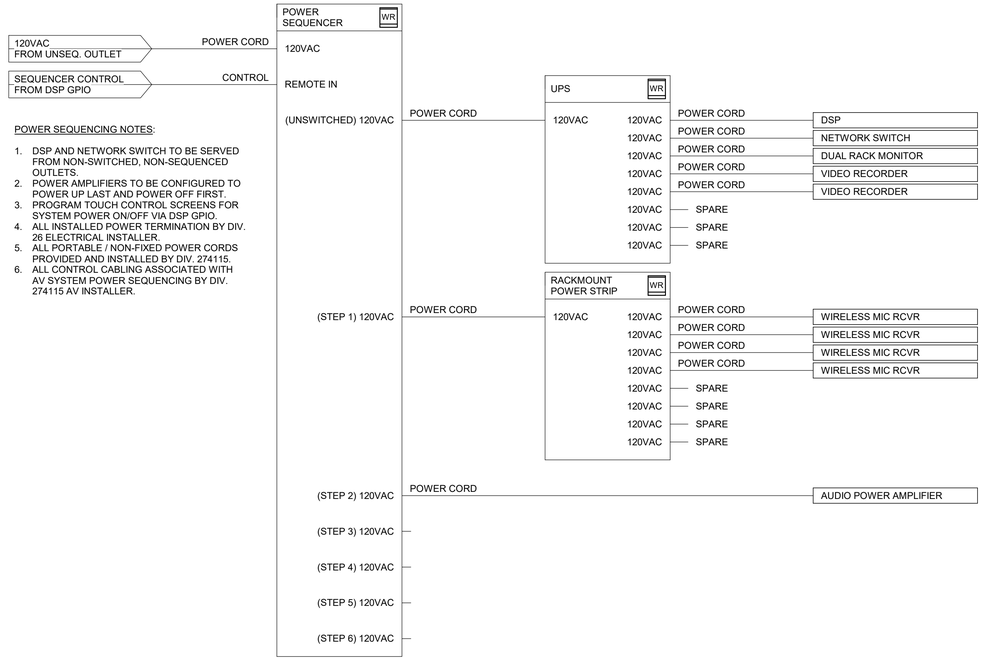
UPS

* PROVIDE RACKSHELF FACEPLATE

1'- 0"

ADJUST FRONT RACK RAIL DEPTH TO ACCOMMODATE DEPTH OF ALL DEVICES, TO INCLUDE DEEP EQUIPMENT FRONT PANELS, PATCH CABLES, ETC. TO ALLOW FRONT DOOR TO FULLY CLOSE.

1 RACK ELEVATION - TYPE WR AV EQUIPMENT WALL RACK
1 1/2" = 1'-0"



POWER SEQUENCING NOTES:

1. DSP AND NETWORK SWITCH TO BE SERVED FROM NON-SWITCHED, NON-SEQUENCED OUTLETS.
2. POWER AMPLIFIERS TO BE CONFIGURED TO POWER UP LAST AND POWER OFF FIRST.
3. PROGRAM TOUCH CONTROL SCREENS FOR SYSTEM POWER ON/OFF VIA DSP GPIO.
4. ALL INSTALLED POWER TERMINATION BY DIV. 26 ELECTRICAL INSTALLER.
5. ALL PORTABLE / NON-FIXED POWER CORDS PROVIDED AND INSTALLED BY DIV. 274115.
6. ALL CONTROL CABLING ASSOCIATED WITH AV SYSTEM POWER SEQUENCING BY DIV. 274115 AV INSTALLER.

2 AUDIOVISUAL ONELINE DIAGRAM - POWER SEQUENCING
NO SCALE

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL RACK ELEVATIONS

PROJECT NO: 2308 A1

△	REVISIONS	DATE

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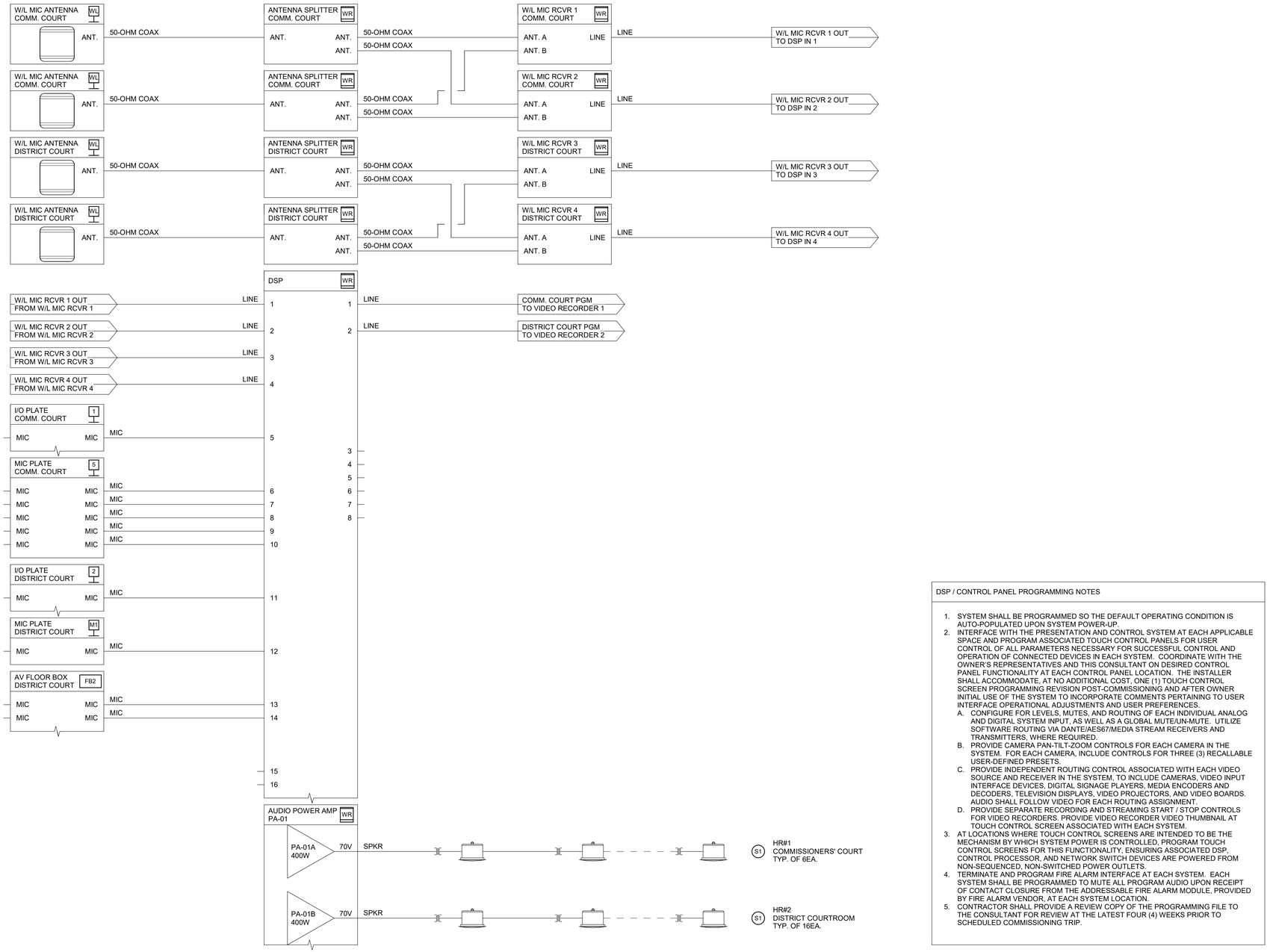

DSP / CONTROL PANEL PROGRAMMING NOTES

1. SYSTEM SHALL BE PROGRAMMED SO THE DEFAULT OPERATING CONDITION IS AUTO-POPULATED UPON SYSTEM POWER-UP.
2. INTERFACE WITH THE PRESENTATION AND CONTROL SYSTEM AT EACH APPLICABLE SPACE AND PROGRAM ASSOCIATED TOUCH CONTROL PANELS FOR USER CONTROL OF ALL PARAMETERS NECESSARY FOR SUCCESSFUL CONTROL AND OPERATION OF CONNECTED DEVICES IN EACH SYSTEM. COORDINATE WITH THE OWNER'S REPRESENTATIVES AND THIS CONSULTANT ON DESIRED CONTROL PANEL FUNCTIONALITY AT EACH CONTROL PANEL LOCATION. THE INSTALLER SHALL ACCOMMODATE, AT NO ADDITIONAL COST, ONE (1) TOUCH CONTROL SCREEN PROGRAMMING REVISION POST-COMMISSIONING AND AFTER OWNER INITIAL USE OF THE SYSTEM TO INCORPORATE COMMENTS PERTAINING TO USER INTERFACE OPERATIONAL ADJUSTMENTS AND USER PREFERENCES.
   A. CONFIGURE FOR LEVELS, MUTES, AND ROUTING OF EACH INDIVIDUAL ANALOG AND DIGITAL SYSTEM INPUT, AS WELL AS A GLOBAL MUTE/UN-MUTE. UTILIZE SOFTWARE ROUTING VIA DANTE/AES67/MEDIA STREAM RECEIVERS AND TRANSMITTERS, WHERE REQUIRED.
   B. PROVIDE CAMERA PAN-TILT-ZOOM CONTROLS FOR EACH CAMERA IN THE SYSTEM. FOR EACH CAMERA, INCLUDE CONTROLS FOR THREE (3) RECALLABLE USER-DEFINED PRESETS.
   C. PROVIDE INDEPENDENT ROUTING CONTROL ASSOCIATED WITH EACH VIDEO SOURCE AND RECEIVER IN THE SYSTEM, TO INCLUDE CAMERAS, VIDEO INPUT INTERFACE DEVICES, DIGITAL SIGNAGE PLAYERS, MEDIA ENCODERS AND DECODERS, TELEVISION DISPLAYS, VIDEO PROJECTORS, AND VIDEO BOARDS. AUDIO SHALL FOLLOW VIDEO FOR EACH ROUTING ASSIGNMENT.
   D. PROVIDE SEPARATE RECORDING AND STREAMING START / STOP CONTROLS FOR VIDEO RECORDERS. PROVIDE VIDEO RECORDER VIDEO THUMBNAIL AT TOUCH CONTROL SCREEN ASSOCIATED WITH EACH SYSTEM.
3. AT LOCATIONS WHERE TOUCH CONTROL SCREENS ARE INTENDED TO BE THE MECHANISM BY WHICH SYSTEM POWER IS CONTROLLED, PROGRAM TOUCH CONTROL SCREENS FOR THIS FUNCTIONALITY, ENSURING ASSOCIATED DSP, CONTROL PROCESSOR, AND NETWORK SWITCH DEVICES ARE POWERED FROM NON-SEQUENCED, NON-SWITCHED POWER OUTLETS.
4. TERMINATE AND PROGRAM FIRE ALARM INTERFACE AT EACH SYSTEM. EACH SYSTEM SHALL BE PROGRAMMED TO MUTE ALL PROGRAM AUDIO UPON RECEIPT OF CONTACT CLOSURE FROM THE ADDRESSABLE FIRE ALARM MODULE, PROVIDED BY FIRE ALARM VENDOR, AT EACH SYSTEM LOCATION.
5. CONTRACTOR SHALL PROVIDE A REVIEW COPY OF THE PROGRAMMING FILE TO THE CONSULTANT FOR REVIEW AT THE LATEST FOUR (4) WEEKS PRIOR TO SCHEDULED COMMISSIONING TRIP.

1 AUDIOVISUAL ONELINE DIAGRAM - AUDIO
12" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL ONELINE DIAGRAM

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: AV-601

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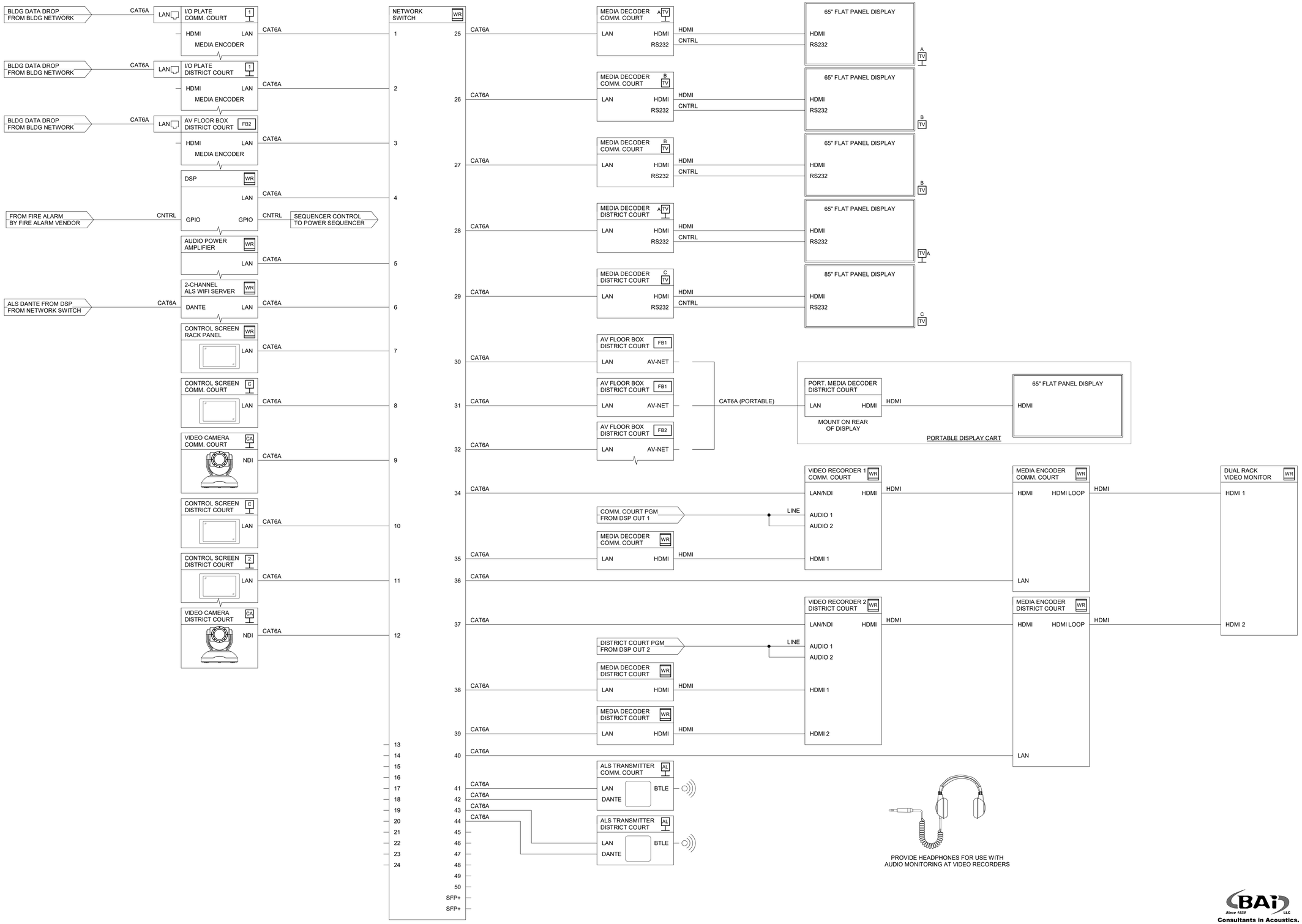
ROUTE ENCODER / DECODER AUDIO INTERNALLY AT
DSP VIA MEDIA STREAM TRANSMITTERS / RECEIVERS



1 AUDIOVISUAL ONELINE DIAGRAM - VIDEO/NETWORK/CONTROL

12" = 1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: AUDIOVISUAL ONELINE DIAGRAM

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: AV-602

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PLUMBING GENERAL NOTES:

1. PATCH WALLS AND FLOORS AFTER REMOVAL OF PLUMBING FIXTURES, PIPES, HARDWARE, ETC.. COORDINATE FLOOR AND WALL FINISH WITH ARCHITECT.

PLUMBING DEMOLITION KEYED NOTES, SHEET PD-101:

1 WORK IN BREAK ROOM 104-B WAS DONE UNDER PHASE 1. THIS AREA NOT PART OF PHASE 2.

2 REMOVE EXISTING WALL MOUNTED LAVATORY AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN CHASE. RETAIN VENT PIPING ABOVE CEILING AND DOMESTIC WATER IN CHASE FOR NEW WORK.

3 REMOVE EXISTING WALL MOUNTED WATER CLOSET AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN CHASE. RETAIN VENT PIPING ABOVE CEILING AND DOMESTIC WATER IN CHASE FOR NEW WORK. PROVIDE A CW EXTENTION AND CAP IN CHASE FOR NEW WATER CLOSET CONNECTION.

4 REMOVE EXISTING WALL MOUNTED DRINKING FOUNTAIN AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN WALL. RETAIN VENT PIPING ABOVE CEILING AND DOMESTIC WATER IN WALL FOR NEW WORK.

5 REMOVE EXISTING FLOOR MOUNTED MOP SINK, FAUCET AND ALL ASSOCIATED HARDARE. CAP WASTE PIPING AT FLOOR, VENT AND WATER PIPING OVERHEAD ABOVE CEILING.

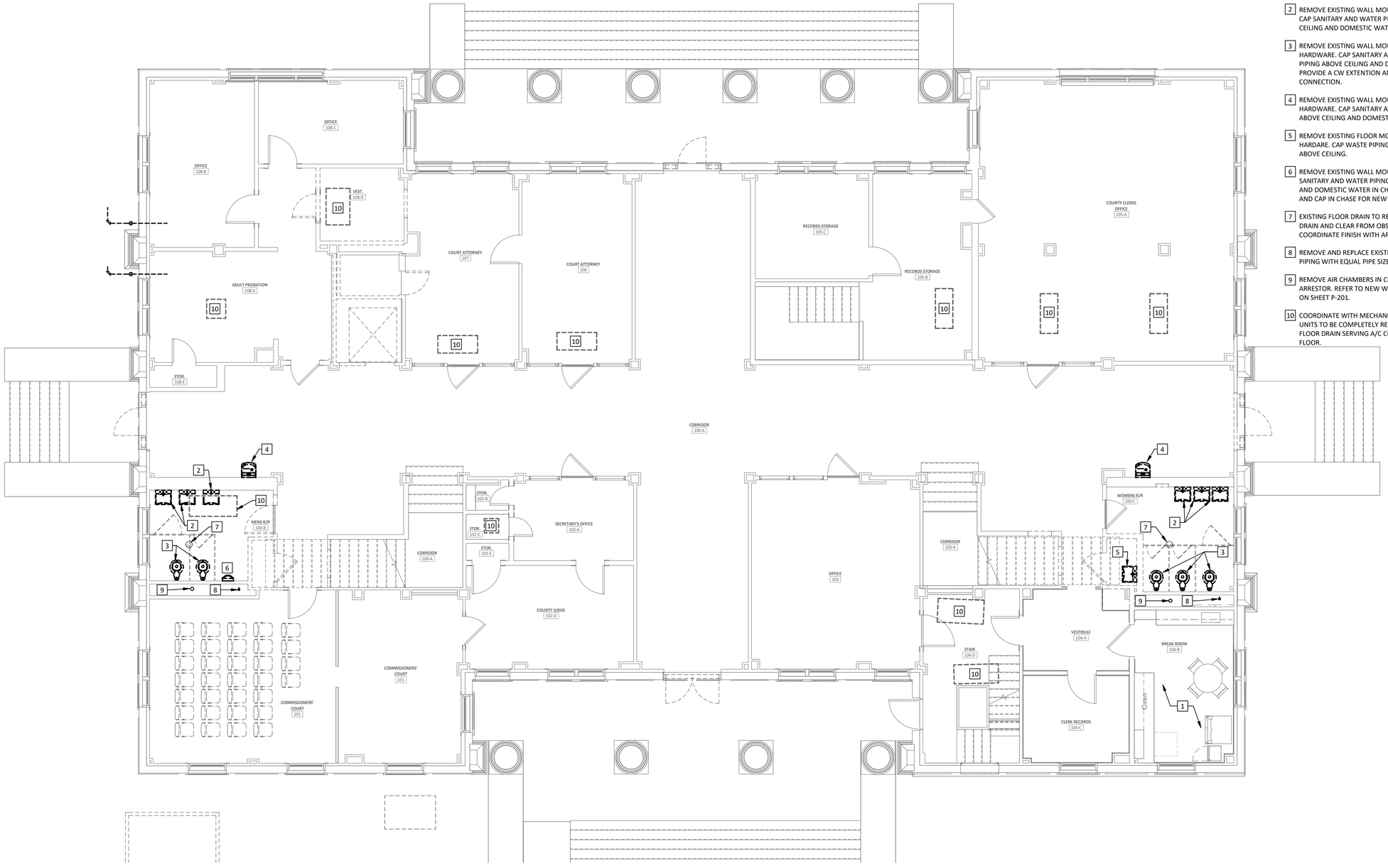
6 REMOVE EXISTING WALL MOUNTED URINAL AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN CHASE. RETAIN VENT PIPING ABOVE CEILING AND DOMESTIC WATER IN CHASE FOR NEW WORK. PROVIDE A CW EXTENTION AND CAP IN CHASE FOR NEW URINAL CONNECTION.

7 EXISTING FLOOR DRAIN TO REMAIN. CLEAN, REMOVE DEBRIS FROM INSIDE DRAIN AND CLEAR FROM OBSTRUCTIONS. REPLACE STRAINER AND COORDINATE FINISH WITH ARCHITECT.

8 REMOVE AND REPLACE EXISTING TRAP PRIMER IN CHASE AND ANY CORRODED PIPING WITH EQUAL PIPE SIZE AND MATERIAL.

9 REMOVE AIR CHAMBERS IN CHASE AND REPLACE WITH WATER HAMMER ARRESTOR. REFER TO NEW WORK AND WATER HAMMER ARRESTOR SCHEDULE ON SHEET P-201.

10 COORDINATE WITH MECHANICAL TRADE THE LOCATION OF EXISTING A/C UNITS TO BE COMPLETELY REMOVED. REMOVE EXISTING HUB DRAIN OR FLOOR DRAIN SERVING A/C CONDENSATE AND CAP SANITARY PIPING BELOW FLOOR.



NORTH

1 FIRST FLOOR PLUMBING PLAN - DEMOLITION

Plumbing 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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STATE OF TEXAS FIRM REGISTRATION NO.: F-19468
PROJECT NO.: 2023.044

STATE OF TEXAS
DAVID R. GONZALES
97449
LICENSED PROFESSIONAL ENGINEER
2/13/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR PLUMBING PLAN - DEMOLITION

PROJECT NO: 2308 A1

REVISIONS DATE

SHEET NO: PD-101

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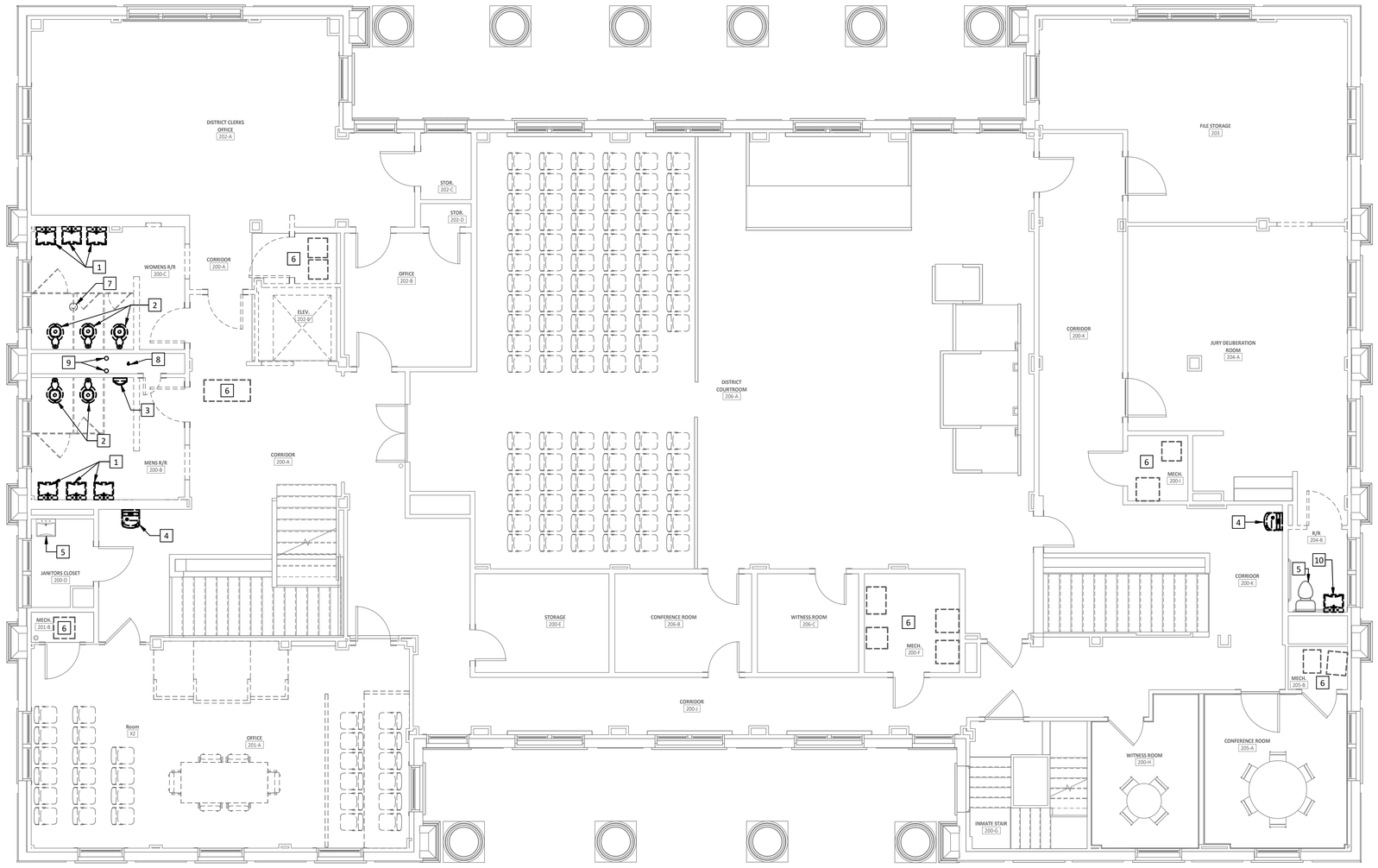

NORTH

1 SECOND FLOOR PLUMBING PLAN - DEMOLITION

Plumbing 3/16" = 1'-0"

PLUMBING GENERAL NOTES:

1. PATCH WALLS AND FLOORS AFTER REMOVAL OF PLUMBING FIXTURES, PIPES, HARDWARE, ETC.. COORDINATE FLOOR AND WALL FINISH WITH ARCHITECT.

PLUMBING DEMOLITION KEYED NOTES, SHEET PD-102:

1 REMOVE EXISTING WALL MOUNTED LAVATORY AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN CHASE. RETAIN VENT PIPING ABOVE CEILING AND DOMESTIC WATER IN CHASE FOR NEW WORK.

2 REMOVE EXISTING WALL MOUNTED WATER CLOSET AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN CHASE. RETAIN VENT PIPING ABOVE CEILING AND DOMESTIC WATER IN CHASE FOR NEW WORK. PROVIDE A CW EXTENTION AND CAP IN CHASE FOR NEW WATER CLOSET CONNECTION.

3 REMOVE EXISTING WALL MOUNTED URINAL AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN CHASE. RETAIN VENT PIPING ABOVE CEILING AND DOMESTIC WATER IN CHASE FOR NEW WORK. PROVIDE A CW EXTENTION AND CAP IN CHASE FOR NEW URINAL CONNECTION.

4 REMOVE EXISTING WALL MOUNTED DRINKING FOUNTAIN AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN WALL. RETAIN VENT PIPING ABOVE CEILING AND DOMESTIC WATER IN WALL FOR NEW WORK.

5 EXISTING PLUMBING FIXTURE TO REMAIN. INSPECT THE CONDITION OF THE FIXTURE AND REPORT ANY NEGATIVE FINDINGS TO THE OWNER/ARCHITECT.

6 COORDINATE WITH MECHANICAL TRADE THE LOCATION OF EXISTING A/C UNITS TO BE COMPLETELY REMOVED. REMOVE EXISTING HUB DRAIN OR FLOOR DRAIN SERVING A/C CONDENSATE AND CAP SANITARY PIPING BELOW FLOOR.

7 EXISTING FLOOR DRAIN TO REMAIN. CLEAN, REMOVE DEBRIS FROM INSIDE DRAIN AND CLEAR FROM OBSTRUCTIONS. REPLACE STRAINER AND COORDINATE FINISH WITH ARCHITECT.

8 REMOVE AND REPLACE EXISTING TRAP PRIMER IN CHASE AND ANY CORRODED PIPING WITH EQUAL PIPE SIZE AND MATERIAL.

9 REMOVE AIR CHAMBERS IN CHASE AND REPLACE WITH WATER HAMMER ARRESTOR. REFER TO NEW WORK AND WATER HAMMER ARRESTOR SCHEDULE ON SHEET P-201.

10 REMOVE EXISTING WALL MOUNTED LAVATORY AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN CHASE. RETAIN VENT AND DOMESTIC WATER PIPING ABOVE CEILING. EXTEND CW AND HW ABOVE CEILING TO LOCATION OF NEW LAVATORY. REFER TO NEW WORK PLAN.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR PLUMBING PLAN - DEMOLITION

PROJECT NO: 2308 A1

REVISIONS DATE

SHEET NO: PD-102

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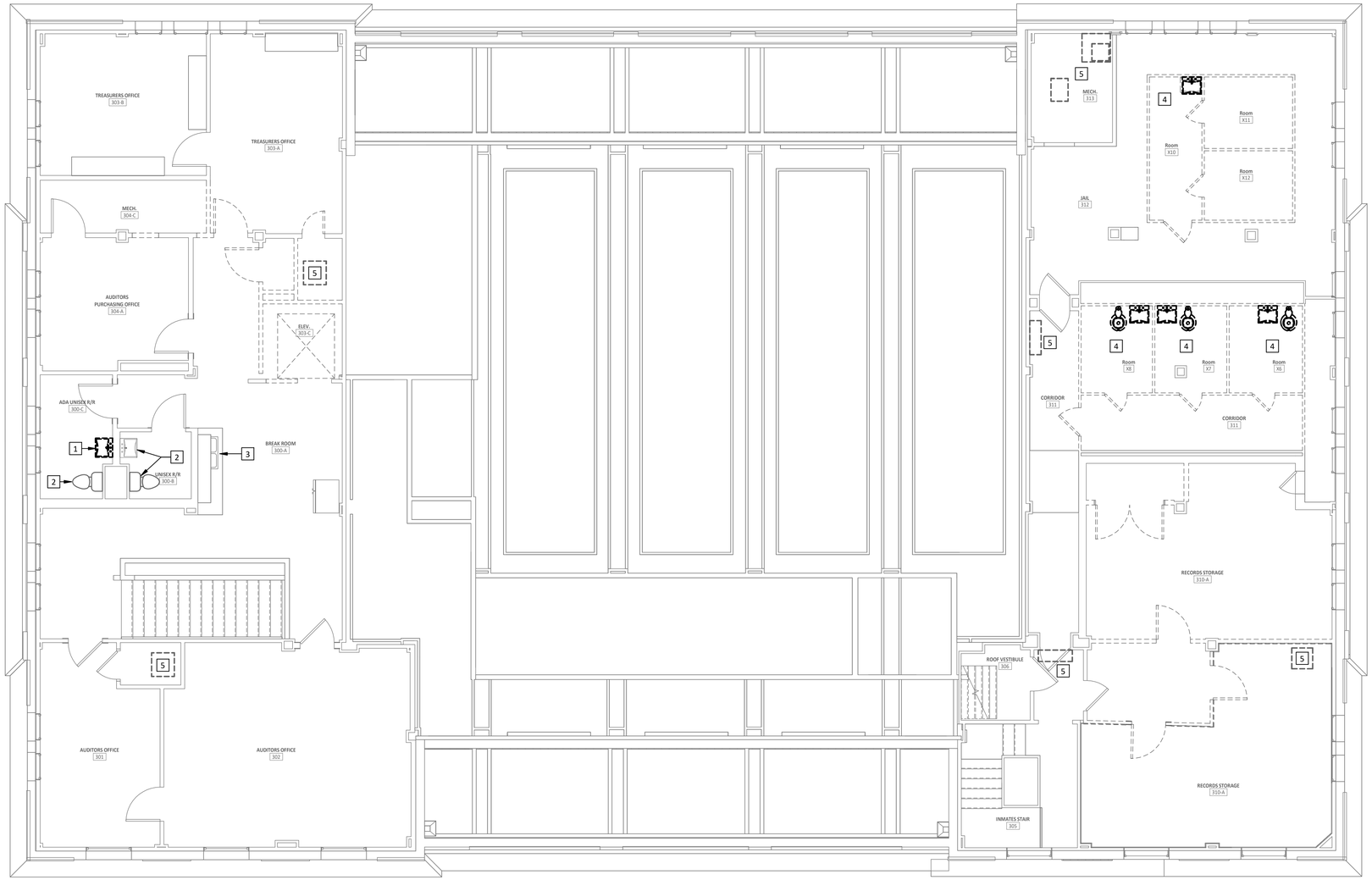

NORTH

1 THIRD FLOOR PLUMBING PLAN - DEMOLITION

Plumbing 3/16" = 1'-0"

PLUMBING GENERAL NOTES:

1. PATCH WALLS AND FLOORS AFTER REMOVAL OF PLUMBING FIXTURES, PIPES, HARDWARE, ETC.. COORDINATE FLOOR AND WALL FINISH WITH ARCHITECT.

PLUMBING DEMOLITION KEYED NOTES, SHEET PD-103:

1 REMOVE EXISTING WALL MOUNTED LAVATORY AND MOUNTING HARDWARE. CAP SANITARY AND WATER PIPING IN WALL. RETAIN VENT AND DOMESTIC WATER PIPING ABOVE CEILING. EXTEND CW AND HW ABOVE CEILING TO LOCATION OF NEW LAVATORY. REFER TO NEW WORK PLAN.

2 EXISTING PLUMBING FIXTURE TO REMAIN. INSPECT THE CONDITION OF THE FIXTURE AND REPORT ANY NEGATIVE FINDINGS TO THE OWNER/ARCHITECT.

3 EXISTING BREAK AREA SINK TO REMAIN. INSPECT THE CONDITION OF THE FIXTURE AND REPORT ANY NEGATIVE FINDINGS TO THE OWNER/ARCHITECT.

4 REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, VALES AND HARDWARE IN THEIR ENTIRETY. CAP SANITARY AND WATER PIPING AT MAIN. COMPLETLEY REMOVE VENT PIPING IN ITS ENTIRETY AND SEAL ROOF PENETRATION AS DIRECTED BY ARCHITECT DETAIL/NOTES.

5 COORDINATE WITH MECHANICAL TRADE THE LOCATION OF EXISTING A/C UNITS TO BE COMPLETLEY REMOVED. REMOVE EXISTING HUB DRAIN OR FLOOR DRAIN SERVING A/C CONDENSATE AND CAP SANITARY PIPING BELOW FLOOR.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT NO.: 2023.044

STATE OF TEXAS
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2/23/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR PLUMBING PLAN - DEMOLITION

PROJECT NO: 2308 A1

	REVISIONS	DATE

SHEET NO: PD-103

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GENERAL PLUMBING NOTES FOR HISTORICAL BUILDING:

1. BUILDING IS A HISTORIC STRUCTURE. CARE MUST BE EXERCISED IN EQUIPMENT AND MATERIAL PLACEMENT IN AND AROUND THE FACILITY TO ENSURE ACCEPTABLE APPEARANCE TO THE ARCHITECT AND STATE OF TEXAS HISTORICAL COMMISSION. ALL EQUIPMENT, MATERIALS AND INSTALLATION WORKMANSHIP MUST MEET FINAL APPROVAL OF ARCHITECT AND STATE OF TEXAS HISTORICAL COMMISSION.
2. DO NOT CUT OR DRILL ANY FURNITURE OR MILLWORK ITEMS DEEMED HISTORICAL WITHOUT PRIOR ARCHITECT'S APPROVAL. SITE VERIFY ALL HISTORICAL ITEMS WITH ARCHITECT.
3. ALL ROUTING OF PIPING AND EQUIPMENT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. APPROVAL CAN BE OBTAINED EITHER BY SHOP DRAWINGS OR BY COORDINATION AT REGULAR CONSTRUCTION SITE MEETINGS BETWEEN ARCHITECT AND CONTRACTOR.
4. PIPING AND EQUIPMENT SHALL BE LOCATED IN AREAS NOT SUBJECT TO VIEW AT THE MAXIMUM EXTENT POSSIBLE, SUCH AS MECHANICAL ROOMS, STORAGE ROOMS, ETC.
5. PIPING SHALL BE COMBINED, IF POSSIBLE, TO MINIMIZE AMOUNT OF PIPING VISIBLE.

PLUMBING DEMOLITION GENERAL NOTES:

1. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED.
2. DISCONNECT, DEMOLISH, AND REMOVE PLUMBING SYSTEMS, EQUIPMENT, AND COMPONENTS INDICATED TO BE REMOVED.
   A. PIPING TO BE REMOVED: REMOVE PORTION OF PIPING INDICATED TO BE REMOVED AND CAP OR PLUG REMAINING PIPING WITH SAME OR COMPATIBLE PIPING MATERIAL.
   B. EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT.
   C. EQUIPMENT TO BE REMOVED AND REINSTALLED: DISCONNECT AND CAP SERVICES AND REMOVE, CLEAN, AND STORE EQUIPMENT; WHEN APPROPRIATE, REINSTALL, RECONNECT, AND MAKE OPERATIONAL.
   D. EQUIPMENT TO BE REMOVED AND SALVAGED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT AND DELIVER TO OWNER.
3. REMOVE ALL EXISTING PLUMBING EQUIPMENT IN DEMOLISHED AREA UNLESS OTHERWISE NOTED TO REMAIN OR IS SHOWN AS EXISTING. COMPLETELY REMOVE DEMOLISHED AND ABANDONED FIXTURES, P-TRAPS, TAIL PIECES, VALVES, PIPING, FITTINGS, HANGERS, STRAPS, SUPPORTS, ETC. IN ACCESSIBLE LOCATIONS. DO NOT ABANDON IN PLACE. ALL PIPING SHALL BE REMOVED BACK TO NEAREST ACTIVE MAIN AND CAPPED.
4. MAINTAIN ALL PIPING MAINS AND BRANCHES THAT ARE EXISTING TO REMAIN OR THAT PASS THROUGH RENOVATED AREAS. RESTORE PIPING FLOW IN MAINS AND BRANCHES AS REQUIRED IF INTERRUPTED BY DEMOLITION.
5. EXACT PIPING LAYOUT TO SPECIFIC FIXTURES, ETC. WAS NOT AVAILABLE DUE TO INACCESSIBILITY CREATED BY WALLS AND/OR CEILINGS. PARTIAL PLUMBING BRANCH PIPING DENOTED ON THE PLANS IS SHOWN FOR REFERENCE AND/OR CLARIFICATION ONLY AND IS NOT TO BE CONSTRUED TO IMPLY THE COMPLETE PIPING SYSTEM. SITE VERIFY TO ENSURE EXITING PLUMBING FIXTURES AND EQUIPMENT REMAIN OPERATIONAL AND IN GOOD WORKING ORDER THROUGHOUT COURSE OF CONSTRUCTION.
6. LOCATIONS AND QUANTITIES OF ALL EXISTING PIPING ITEMS ARE APPROXIMATE AND, IN SOME CASES, ASSUMED DUE TO THE INACCESSIBILITY TO CERTAIN AREAS. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REMOVE OR RELOCATE ANY AND ALL PLUMBING ITEMS REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT.
7. EXISTING PIPING MAINS AND TAPS FROM MAINS FOUND TO BE REUSABLE CAN BE USED FOR NEW WORK AT THE CONTRACTOR'S DISCRETION. ALL OTHER EXISTING BRANCH PIPING AND MATERIAL PREVIOUSLY INSTALLED SHALL BE REMOVED FROM JOB SITE UNLESS OTHERWISE NOTED ON PLANS OR DIRECTED BY OWNER.
8. IN GENERAL, PATCH PENETRATIONS THROUGH WALLS AS THE RESULT OF PLUMBING DEMOLITION TO MATCH EXISTING AS A RESULT OF PLUMBING DEMOLITION.
9. IF PIPE, INSULATION, OR EQUIPMENT TO REMAIN IS DAMAGED IN APPEARANCE OR IS UNSERVICEABLE, REMOVE DAMAGED OR UNSERVICEABLE PORTIONS AND REPLACE WITH NEW PRODUCTS OF EQUAL CAPACITY AND QUALITY.

PLUMBING GENERAL REFURBISHMENT NOTES:

1. EXACT LOCATION AND ROUTING OF EXISTING SANITARY SEWER LINES ARE UNKNOWN. PLUMBING CONTRACTOR SHALL FIELD LOCATE EXISTING SANITARY SEWER LINES BEFORE COMMENCING WITH ANY CORING OR TRENCHING OR MAKING ANY NEW CONNECTIONS. COORDINATE ALL CORING AND TRENCHING WITH ARCHITECT AND OWNER REPRESENTATIVE.
2. THE EXISTING CONDITION OF THE ENTIRE PLUMBING SYSTEM SHALL BE EVALUATED, TESTED, AND A REPORT GENERATED FOR A/E AND OWNER REVIEW. THE REPORT SHALL INCLUDE THE CONDITION OF ALL PIPING, FIXTURES, VALVES, ETC; RECOMMENDATIONS FOR ANY REPAIRS THAT MAY BE NEEDED AND ALL COSTS ASSOCIATED WITH SUCH REPAIRS SHALL BE PROVIDED TO THE A/E AND OWNER FOR REVIEW.
3. THE SEWER AND VENT LINES SHALL BE CLEANED AND VERIFIED THAT ANY BLOCKAGES OR POTENTIAL BLOCKAGES WITHIN THE SEWER AND VENT SYSTEM HAVE BEEN CLEARED AND PROPER FLOW HAS BEEN ESTABLISHED.
4. ALL EXISTING PLUMBING FIXTURES WITHIN THE SCOPE OF WORK THAT WILL NOT BE REPLACED SHALL BE THOROUGHLY CLEANED AND SANITIZED.

PLUMBING GENERAL NOTES:

1. ALL PLUMBING INSTALLATIONS AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSTALLATION SHALL BE IN COMPLIANCE WITH THE LATEST ADOPTED ADA/TAS ACCESSIBILITY REQUIREMENTS.
3. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
4. THE CONTRACTOR MUST FOLLOW ALL OWNER STANDARDS RELATED TO MATERIALS, EQUIPMENT, FIXTURES, AND INSTALLATION.
5. ALL DIMENSIONS AND ACTUAL CONSTRUCTION CONDITIONS MUST BE VERIFIED AT THE JOB SITE.
6. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING OR ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES.
7. COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION AND ADJUST AS REQUIRED. ROUTE ALL PIPING TO AVOID DUCTWORK, CONDUIT, AND BUILDING STRUCTURE.
8. SLEEVE AND FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, ETC. THE CONTRACTOR SHALL COORDINATE PENETRATIONS THROUGH EXISTING STRUCTURAL WALLS WITH THE STRUCTURAL ENGINEER AND OWNER PRIOR TO ANY CORE DRILLING.
9. DO NOT INSTALL WATER LINES OR VENT LINES ABOVE ELECTRICAL PANELBOARDS. COORDINATE PANELBOARD LOCATIONS WITH THE ELECTRICAL CONTRACTOR.
10. ALL FIXTURES SHALL BE PROPERLY VENTED TO THE ATMOSPHERE.
11. ALL SANITARY AND VENT PIPING NOT SHOWN SHALL BE ROUTED AND REVENTED OVERHEAD, IN ACCORDANCE WITH THE LATEST ADOPTED INTERNATIONAL PLUMBING CODE AND TERMINATED THROUGH THE ROOF.
12. ALL POTABLE COLD WATER, HOT WATER, AND TEMPERED WATER PIPING SHALL BE COPPER.
13. ALL ABOVE GRADE POTABLE COLD WATER, HOT WATER, AND TEMPERED WATER PIPING SHALL BE TYPE "L" HARD COPPER.
14. DOMESTIC WATER PIPING BELOW FLOOR SHALL BE TYPE 'K' SOFT COPPER COMPLYING WITH ASTM B-88, FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.
15. ALL INTERIOR CONDENSATE PIPING SHALL BE TYPE 'M' HARD COPPER WITH PLENUM RATED ARMAFLEX.
16. PROVIDE DIELECTRIC FITTINGS FOR CONNECTING DISSIMILAR PIPING MATERIAL.
17. WASTE AND VENT LINES SHALL BE CAST IRON.
18. INSULATE ALL HOT WATER, HOT WATER RETURN LINES AND CONDENSATE LINES (INCLUDING LINES RUN ABOVE CEILING) WITH 1" OWENS-CORNING FIBERGLASS ASJ /SSL-11 OR EQUIVALENT FOR PIPE SIZES 1-1/2" AND SMALLER; PROVIDE 1-1/2" THICK INSULATION FOR PIPE SIZES LARGER THAN 1-1/2".
19. ALL BELOW FLOOR DOMESTIC WATER PIPING LOCATED INSIDE BUILDINGS WITH SLAB ON GRADE FOUNDATIONS SHALL NOT HAVE JOINTS BELOW THE FLOOR.
20. ALL CONDENSATE DRAIN LINES SHALL SLOPE AT 1/8" PER FOOT.
21. ALL SANITARY SEWER WASTE LINES SHALL SLOPE AT 1/4" PER FOOT.
22. FURNISH AND INSTALL PLATED SHEET METAL SADDLES BETWEEN PIPE HANGERS AND INSULATION. SECURE SADDLES WITH TWO PLENUM RATED STRAPS.
23. FURNISH AND INSTALL GALVANIZED CLEVIS HANGERS WITH GALVANIZED RODS FOR ALL SANITARY AND VENT PIPING ABOVE GROUND.
24. FURNISH AND INSTALL STAINLESS STEEL SHEET METAL SADDLES BETWEEN PIPE HANGERS AND INSULATION FOR UNDERFLOOR AND UNCONDITIONED LOCATIONS. SECURE SADDLESWITH TWO PLENUM RATED STRAPS.
25. PROVIDE GALVANIZED TRAPEZE HANGERS OR COPPER-PLATED CLEVIS HANGERS WITH GALVANIZED THREADED RODS TO SUPPORT ALL COPPER PIPES ABOVE GRADE.
26. FURNISH AND INSTALL ACCESS PANELS TO ALL VALVES LOCATED WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
27. THE FOLLOWING TYPES OF JOINTS AND CONNECTIONS SHALL BE PROHIBITED: CEMENT OR CONCRETE JOINTS, JOINTS MADE WITH FITTINGS NOT APPROVED FOR THE SPECIFIED INSTALLATION, SOLVENT-CEMENT JOINTS BETWEEN DIFFERENT TYPES OF PLASTIC PIPE, AND SADDLE-TYPE FITTINGS.

PLUMBING LEGEND

NOT ALL ITEMS APPLY TO THIS PROJECT

MARK	DESCRIPTION	MARK	DESCRIPTION
AV	ACID VENT PIPING		CHECK VALVE
AW	ACID WASTE PIPING		GATE VALVE
CA	COMPRESSED AIR PIPING		PLUG VALVE OR (AGA GAS VALVE)
-	COLD WATER, DOMESTIC PIPING		PRESSURE REDUCING VALVE
CD	CONDENSATE DRAIN PIPING	WH	WALL HYDRANT
D	DRAIN PIPING		WATER HAMMER ARRESTOR (PISTON TYPE)
FW	FILTERED WATER PIPING	(AX)	INDICATES ASSUMED EXISTING
F	FIRE MAIN PIPING	(EX)	INDICATES EXISTING
G	NATURAL GAS PIPING	AC	ABOVE CEILING
GW	GREASE WASTE PIPING	AD	ACCESS DOOR
	HOT WATER, DOMESTIC PIPING (120° F.)	AFF	ABOVE FINISH FLOOR
	HOT WATER RETURN, DOMESTIC PIPING (110° F.)	AP	ACCESS PANEL
NP	NON-POTABLE WATER PIPING (LABEL AND PAINT PER CODE)	BFF	BELOW FINISH FLOOR
OD	OVERFLOW ROOF DRAIN PIPING	BFP	BACKFLOW PREVENTOR
RD	ROOF DRAIN PIPING	CFH	CUBIC FEET PER HOUR
SS	SANITARY SEWER PIPING	CO	CLEANOUT
SW	SOFT WATER PIPING	CW	COLD WATER
	VENT PIPING	CD	CONDENSATE DRAIN
	CAP ON END OF PIPE	DCO	DOUBLE YARD CLEANOUT
FCO	FLOOR CLEANOUT	EDF	ELECTRIC DRINKING FOUNTAIN
WCO	WALL CLEANOUT	EWH	ELECTRIC WATER HEATER
YCO	YARD CLEANOUT	ELEV	ELEVATION
	DIRECTION OF FLOW	FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN	FD	FLOOR DRAIN
HD	HUB DRAIN	GPM	GALLONS PER MINUTE
RD	ROOF DRAIN	GPH	GALLONS PER HOUR
OD	OVERFLOW DRAIN	HB	HOSE BIB
	ELBOW	HW	HOT WATER (DOMESTIC)
	ELBOW UP	HWR	HOT WATER RETURN (DOMESTIC)
	ELBOW DOWN	I.E.	INVERT ELEVATION (INV. EL)
P-XX	EQUIPMENT TAG/MARK	IWH	INSTANTANEOUS WATER HEATER
FS	FLOOR SINK	KW	KILOWATT
	FLANGED JOINT	NB	NICKEL BRONZE
HB	HOSE BIBB	N.O.	NORMALLY OPEN
XX	NEW WORK KEYED NOTES	N.C.	NORMALLY CLOSED
XX	DEMOLITION KEYED NOTES	OH	OVERHEAD
XX	DETAIL KEYED NOTES	RPM	REVOLUTIONS PER MINUTE
	PUMP	SS	SANITARY SEWER
POC	POINT OF CONNECTION	TMV	THERMOSTATIC MIXING VALVE
	TEE DOWN	TDCO	TRAFFIC DUTY CLEANOUT
	TEE IN PLAN	TWCO	TWO WAY CLEAN OUT
	TEE UP	TSP	TRAP SEAL PRIMER
	SANITARY TEE IN PLAN	UG	UNDERGROUND
	PIPE SIZE TRANSITION	VTR	VENT THRU ROOF
	TRAP PRIMER TUBING	V	VENT OR VALVE
	THERMOMETER TEST OR CONTROL BULB WELL	WC	WATER CLOSET
	UNION	WCO	WALL CLEAN OUT
	BALL VALVE	YCO	YARD CLEANOUT

FIELD COORDINATION AND EXISTING CONDITIONS:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING PRIOR TO THE COMMENCEMENT OF DEMOLITION OR INSTALLATION. DUE TO LACK OF RECORD DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PLUMBING PIPING AND FIXTURES. NEW PIPING MUST FOLLOW THE EXACT PATHWAY AND PENETRATIONS OF THE EXISTING LINES TO AVOID INTERFERENCE WITH CONCEALED STRUCTURAL MEMBERS. ANY DEVIATION FROM EXISTING ROUTING REQUIRES WRITTEN APPROVAL.

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PROJECT NO.: 2023.044

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2/23/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: PLUMBING LEGEND, CODES, AND GENERAL NOTES

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: P-100

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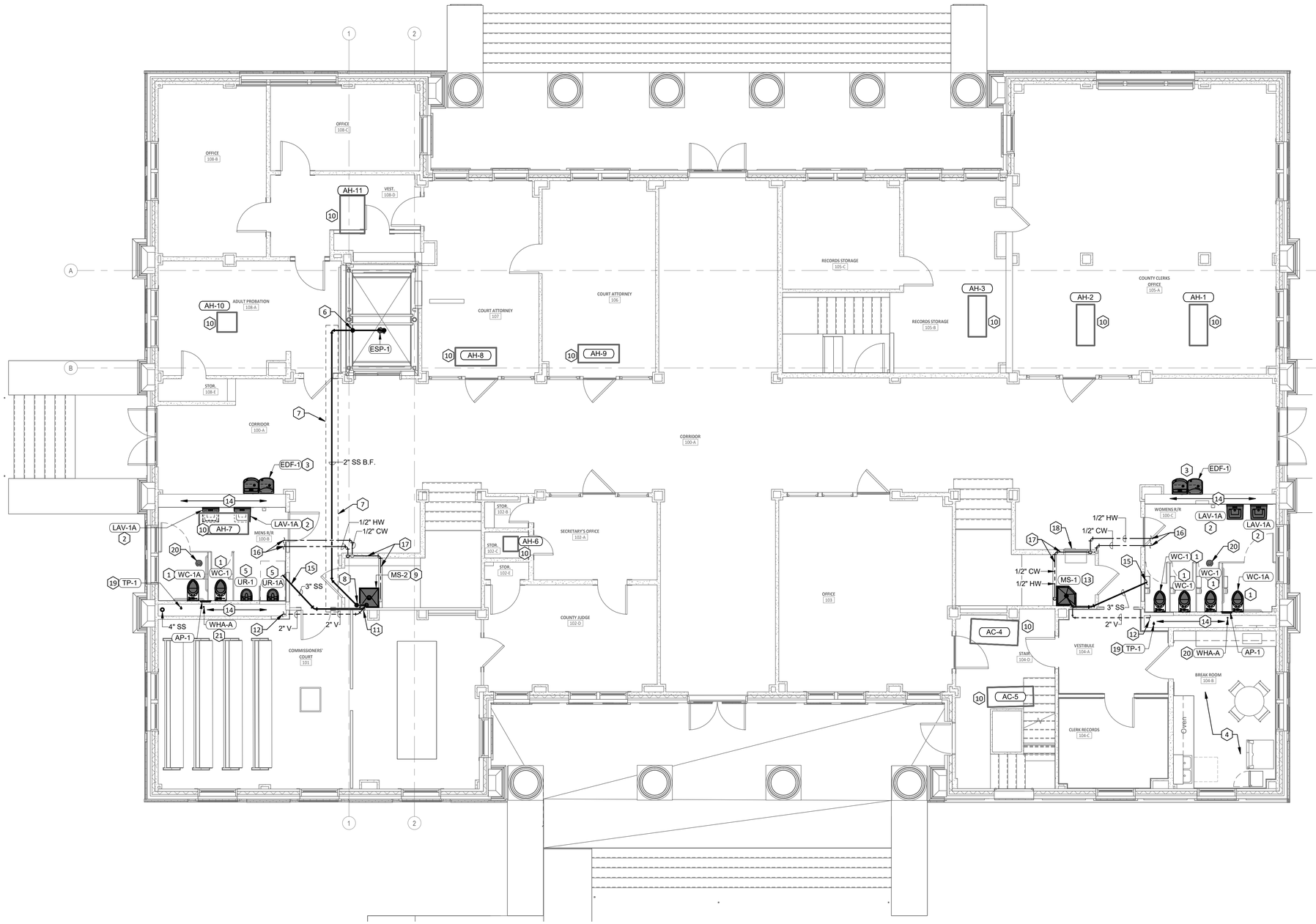

NORTH

1 FIRST FLOOR PLUMBING PLAN - NEW WORK

Plumbing 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

PLUMBING GENERAL NOTES:

1. NEW HVAC EQUIPMENT SHALL BE PLACED WHERE EXISTING HVAC EQUIPMENT WAS REMOVED. PLUMBING CONTRACTOR SHALL SCOPE THE EXISTING CONDENSATE DRAIN LINE TO BE FREE AND CLEAR OF ANY DEBRIS OR OBSTRUCTIONS.
2. REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS FOR ADA FIXTURES AND MOUNTING HEIGHTS PRIOR TO INSTALLATION.

PLUMBING NEW WORK KEYED NOTES, SHEET P-101:

1. PROVIDE NEW WALL MOUNTED WATER CLOSET. MAKE NEW SS, VENT AND CW CONNECTIONS TO EXISTING SS, VENT AND CW PIPING IN WALL. MAKE FINAL CONNECTIONS AS REQUIRED.
2. PROVIDE NEW WALL MOUNTED LAVATORY AND MOUNTING SUPPORTS. MAKE NEW SS, VENT, CW AND HW CONNECTIONS TO EXISTING SS, VENT, CW AND HW PIPING IN WALL. MAKE FINAL CONNECTIONS AS REQUIRED.
3. PROVIDE NEW WALL MOUNTED BI-LEVEL DRINKING FOUNTAIN AND MOUNTING SUPPORTS. MAKE NEW SS, VENT, CW CONNECTIONS TO EXISTING SS, VENT, CW AND HW PIPING IN WALL. MAKE FINAL CONNECTIONS AS REQUIRED.
4. WORK IN BREAK ROOM WAS DONE UNDER PHASE 1. THIS AREA NOT PART OF PHASE 2.
5. PROVIDE NEW WALL MOUNTED URINAL AND MOUNTING SUPPORTS. MAKE NEW SS, VENT, CW CONNECTIONS TO EXISTING SS, VENT, CW AND HW PIPING IN WALL. COORDINATE WITH ARCHITECTURAL PLANS FOR ADA URINAL AND ADJUST AS REQUIRED. MAKE FINAL CONNECTIONS AS REQUIRED.
6. ELEVATOR SUMP PUMP DISCHARGE. RISE DISCHARGE PIPE UP FROM ELEVATOR SUMP.
7. PROPOSED ROUTING OF ELEVATOR SUMP PUMP DISCHARGE BELOW FIRST FLOOR AT BASEMENT LEVEL. HIDDEN LINES SHOW POSSIBLE EXCAVATION REQUIRED IN BASEMENT TO ROUTE PIPE.
8. ROUTE ELEVATOR SUMP PUMP DISCHARGE UNDER FIRST FLOOR TO MOP SINK LOCATION IN JANITOR CLOSET. RISE DISCHARGE PIPE UP FROM UNDER FLOOR EXPOSED IN CLOSET TO 1' ABOVE MOP SINK RIM AND TERMINATE WITH 90DEG. ELBOW TURNED DOWN INTO MOP SINK. TERMINATE WITH AIR GAP AS REQUIRED.
9. PROVIDE NEW 24" X 24" FULL HEIGHT FLOOR MOUNTED MOP SINK AND FAUCET. MAKE NEW SS, VENT, CW AND HW CONNECTIONS TO EXISTING SS, VENT, CW AND HW PIPING IN THE VICINITY. MAKE FINAL CONNECTIONS AS REQUIRED. FIELD VERIFY SANITARY SEWER PRIOR TO ORDERING.
10. PROVIDE FULL SIZE CONDENSATE CONNECTION FROM HVAC CONDENSATE DISCHARGE AND ROUTE TO LOCATION OF EXISTING CONDENSATE DRAIN PIPING.
11. ROUTE VENT PIPING UP INTO EXISTING FURR-OUT AND OVER TO EXISTING RESTROOM PLUMBING CHASE. COORDINATE LOCATION OF EXISTING FURR-OUT WITH ARCHITECT PLANS. COORDINATE MODIFICATIONS AND REPAIR WORK OF EXISTING FURR-OUT WITH ARCHITECT.
12. CONNECT NEW 2" VENT PIPE TO EXISTING VENT PIPING IN PLUMBING CHASE.
13. PROVIDE NEW FLOOR MOUNTED CORNER MOP SINK AND FAUCET. MAKE NEW SS, VENT, CW AND HW CONNECTIONS TO EXISTING SS, VENT, CW AND HW PIPING IN THE VICINITY. MAKE FINAL CONNECTIONS AS REQUIRED. FIELD VERIFY SANITARY SEWER PIPE SIZE PRIOR TO ORDERING.
14. PIPING INSIDE WALL/CHASES SHALL BE MODIFIED TO ACCOMMODATE NEW PLUMBING FIXTURE TYPES AND ARRANGEMENT.
15. ROUTE MOP SINK WASTE PIPING BELOW FLOOR TO PREVIOUS MOP SINK LOCATION AND CONNECT.
16. EXTEND 1/2" CW AND HW TO NEW MOP SINK LOCATION AND CONNECT TO NEW FAUCET.
17. ROUTE DOMESTIC WATER LINES IN WALL TO MOP SINK WALL FAUCET LOCATION AND CONNECT.
18. ROUTE PIPING IN WALL ABOVE MAIL BOX OPENING. COORDINATE MAIL BOX SIZE WITH ARCHITECTURAL INTERIOR ELEVATION PLANS.
19. PROVIDE NEW TRAP PRIMER AT SAME LOCATION OF EXISTING DEMOED TRAP PRIMER. RE-CONNECT TO EXISTING PIPING IN CHASE.
20. PROVIDE NEW GRATE FOR EXISTING FLOOR DRAIN. COORDINATE FINISH WITH ARCHITECT.
21. PROVIDE AND INSTALL WATER HAMMER ARRESTER WITH ACCESS PANEL. REFER TO DETAIL 1 ON SHEET P-201. MAKE FINAL CONNECTIONS AS REQUIRED.

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2/13/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: FIRST FLOOR PLUMBING PLAN - NEW WORK

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: P-101

2/24/2026 11:35:34 AM

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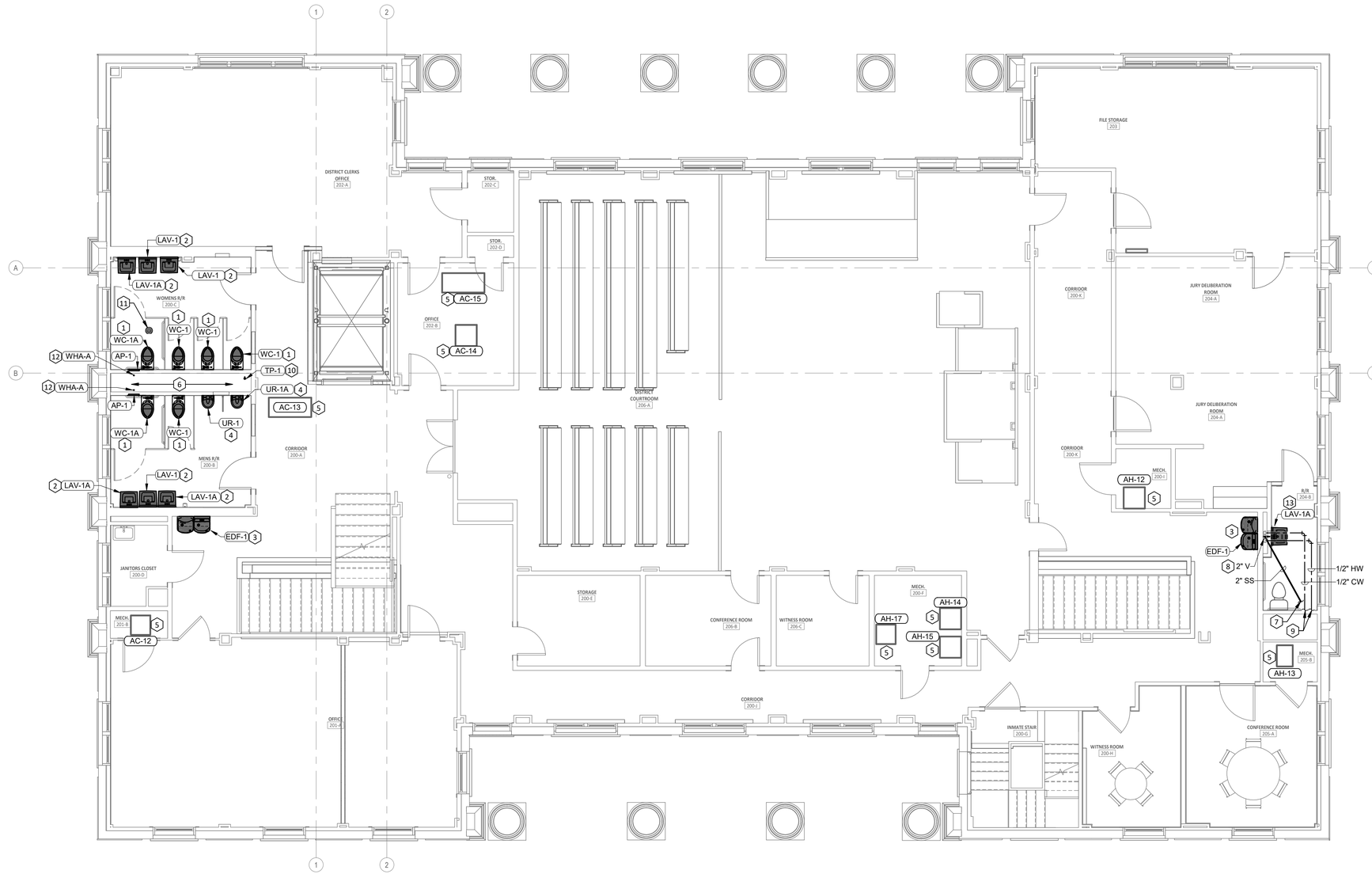
PLUMBING GENERAL NOTES:

1. NEW HVAC EQUIPMENT SHALL BE PLACED WHERE EXISTING HVAC EQUIPMENT WAS REMOVED. PLUMBING CONTRACTOR SHALL SCOPE THE EXISTING CONDENSATE DRAIN LINE TO BE FREE AND CLEAR OF ANY DEBRIS OR OBSTRUCTIONS.
2. REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS FOR ADA FIXTURES AND MOUNTING HEIGHTS PRIOR TO INSTALLATION.

PLUMBING NEW WORK KEYED NOTES, SHEET P-102:

1. PROVIDE NEW WALL MOUNTED WATER CLOSET. MAKE NEW SS, VENT AND CW CONNECTIONS TO EXISTING SS, VENT AND CW PIPING IN WALL. MAKE FINAL CONNECTIONS AS REQUIRED.
2. PROVIDE NEW WALL MOUNTED LAVATORY AND MOUNTING SUPPORTS. MAKE NEW SS, CW AND HW CONNECTIONS TO EXISTING SS, CW AND HW PIPING IN WALL. MAKE FINAL CONNECTIONS AS REQUIRED.
3. PROVIDE NEW WALL MOUNTED BI-LEVEL DRINKING FOUNTAIN AND MOUNTING SUPPORTS. MAKE NEW SS AND CW CONNECTIONS TO EXISTING SS AND CW PIPING IN WALL. MAKE FINAL CONNECTIONS AS REQUIRED.
4. PROVIDE NEW WALL MOUNTED URINAL AND MOUNTING SUPPORTS. MAKE NEW SS, VENT, CW CONNECTIONS TO EXISTING SS, VENT AND CW PIPING IN WALL. COORDINATE WITH ARCHITECTURAL PLANS FOR ADA URINAL AND ADJUST AS REQUIRED. MAKE FINAL CONNECTIONS AS REQUIRED.
5. PROVIDE FULL SIZE CONDENSATE CONNECTION FROM HVAC CONDENSATE DISCHARGE AND ROUTE TO LOCATION OF EXISTING CONDENSATE DRAIN PIPING.
6. PIPING INSIDE WALL/CHASES SHALL BE MODIFIED TO ACCOMMODATE NEW PLUMBING FIXTURE TYPES AND ARRANGEMENT.
7. ROUTE LAVATORY WASTE PIPING BELOW FLOOR TO PREVIOUS LAVATORY LOCATION AND CONNECT.
8. ROUTE LAVATORY VENT PIPING IN CHASE AND CONNECT TO EXISTING VENT PIPING SERVING DRINKING FOUNTAIN.
9. EXTEND 1/2" CW AND HW FROM PREVIOUS LAVATORY LOCATION OVERHEAD TO NEW LAVATORY. DROP IN WALL AND CONNECT TO LAVATORY ANGLE STOP. MAKE FINAL CONNECTION AS REQUIRED.
10. PROVIDE NEW TRAP PRIMER AT SAME LOCATION OF EXISTING DEMOED TRAP PRIMER. RE-CONNECT TO EXISTING PIPING IN CHASE.
11. PROVIDE NEW GRATE FOR EXISTING FLOOR DRAIN. COORDINATE FINISH WITH ARCHITECT.
12. PROVIDE AND INSTALL WATER HAMMER RESTER WITH ACCESS PANEL. REFER TO DETAIL 1 ON SHEET P-201. MAKE FINAL CONNECTIONS AS REQUIRED.
13. PROVIDE NEW WALL MOUNTED LAVATORY AND MOUNTING SUPPORTS. EXTEND SS BELOW FLOOR TO EXISTING SANITARY SEWER AND CONNECT. ROUTE VENT PIPING UP AND CONNECT TO EXISTING VENT PIPING OVERHEAD.



NORTH

1 SECOND FLOOR PLUMBING PLAN - NEW WORK

Plumbing — 3/16" = 1'-0"

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: SECOND FLOOR PLUMBING PLAN - NEW WORK

PROJECT NO: 2308 A1

△	REVISIONS	DATE

SHEET NO: P-102

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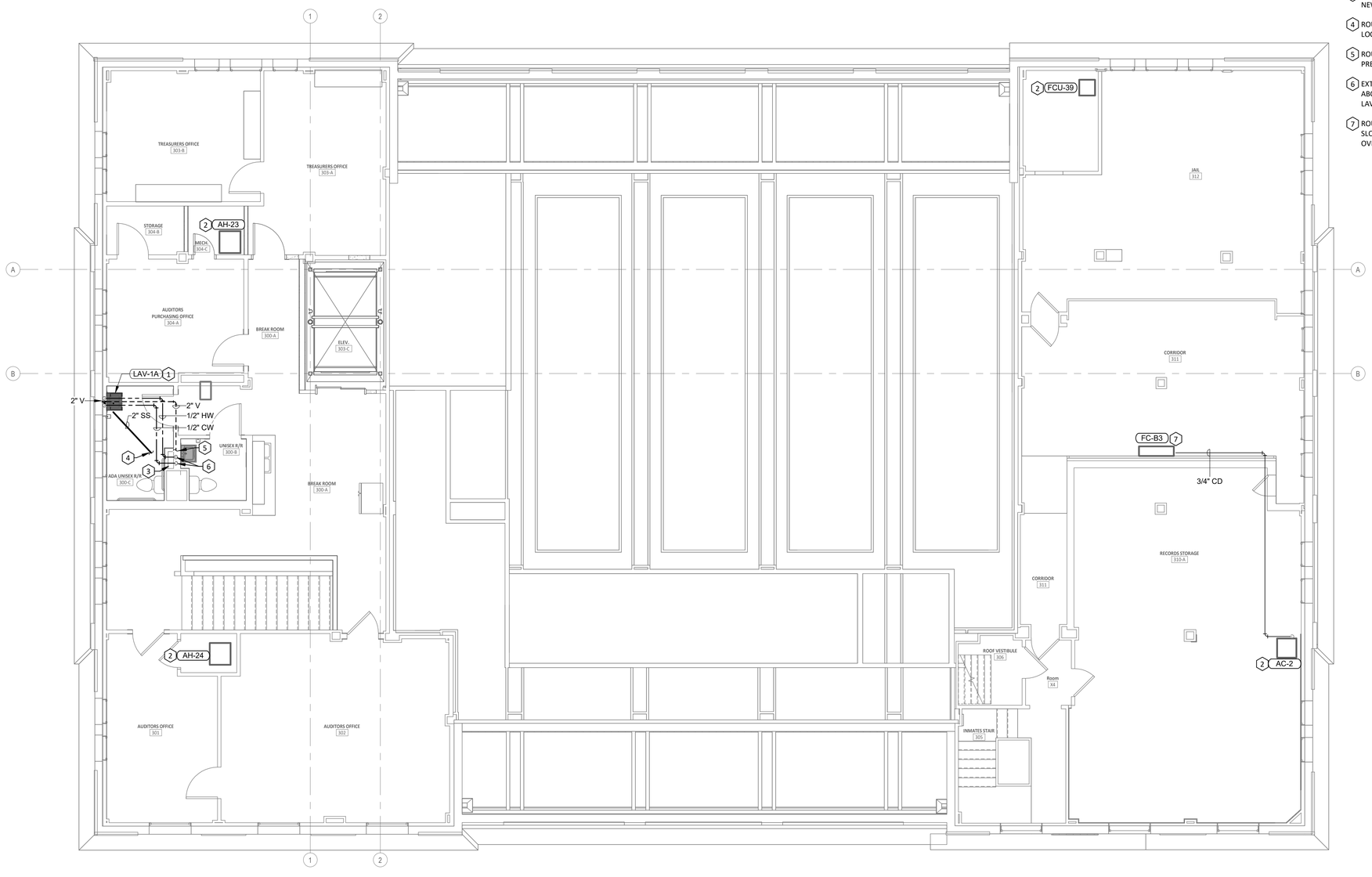
PLUMBING GENERAL NOTES:

1. NEW HVAC EQUIPMENT SHALL BE PLACED WHERE EXISTING HVAC EQUIPMENT WAS REMOVED. PLUMBING CONTRACTOR SHALL SCOPE THE EXISTING CONDENSATE DRAIN LINE TO BE FREE AND CLEAR OF ANY DEBRIS OR OBSTRUCTIONS.
2. REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS FOR ADA FIXTURES AND MOUNTING HEIGHTS PRIOR TO INSTALLATION.

PLUMBING NEW WORK KEYED NOTES, SHEET P-103:

1. PROVIDE NEW WALL MOUNTED LAVATORY AND MOUNTING SUPPORTS. MAKE NEW SS, VENT, CW AND HW CONNECTIONS TO EXISTING SS, VENT, CW AND HW PIPING IN WALL. MAKE FINAL CONNECTIONS AS REQUIRED.
2. PROVIDE FULL SIZE CONDENSATE CONNECTION FROM HVAC CONDENSATE DISCHARGE AND ROUTE TO LOCATION OF EXISTING CONDENSATE DRAIN PIPING.
3. PIPING INSIDE WALL/CHASES SHALL BE MODIFIED TO ACCOMMODATE NEW PLUMBING FIXTURE TYPES AND ARRANGEMENT.
4. ROUTE LAVATORY WASTE PIPING BELOW FLOOR TO PREVIOUS LAVATORY LOCATION AND CONNECT.
5. ROUTE LAVATORY VENT PIPING IN WALL TO OVERHEAD ABOVE CEILING TO PREVIOUS LAVATORY LOCATION AND CONNECT TO EXISTING VENT PIPING.
6. EXTEND 1/2" CW AND HW PIPING FROM PREVIOUS LOCATION OVERHEAD ABOVE CEILING TO NEW LAVATORY. DROP IN WALL AND CONNECT TO LAVATORY ANGLE STOP. MAKE FINAL CONNECTION AS REQUIRED.
7. ROUTE CONDENSATE DRAIN PIPE FULL SIZE OF UNIT CONNECTION AT 1% SLOPE AS HIGH AS POSSIBLE TO HUB DRAIN SERVING AC-2. TERMINATE OVER HUB DRAIN WITH AIR GAP AS REQUIRED.



NORTH

1 THIRD FLOOR PLUMBING PLAN - NEW WORK

Plumbing 3/16" = 1'-0"

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: THIRD FLOOR PLUMBING PLAN - NEW WORK

PROJECT NO: 2308 A1

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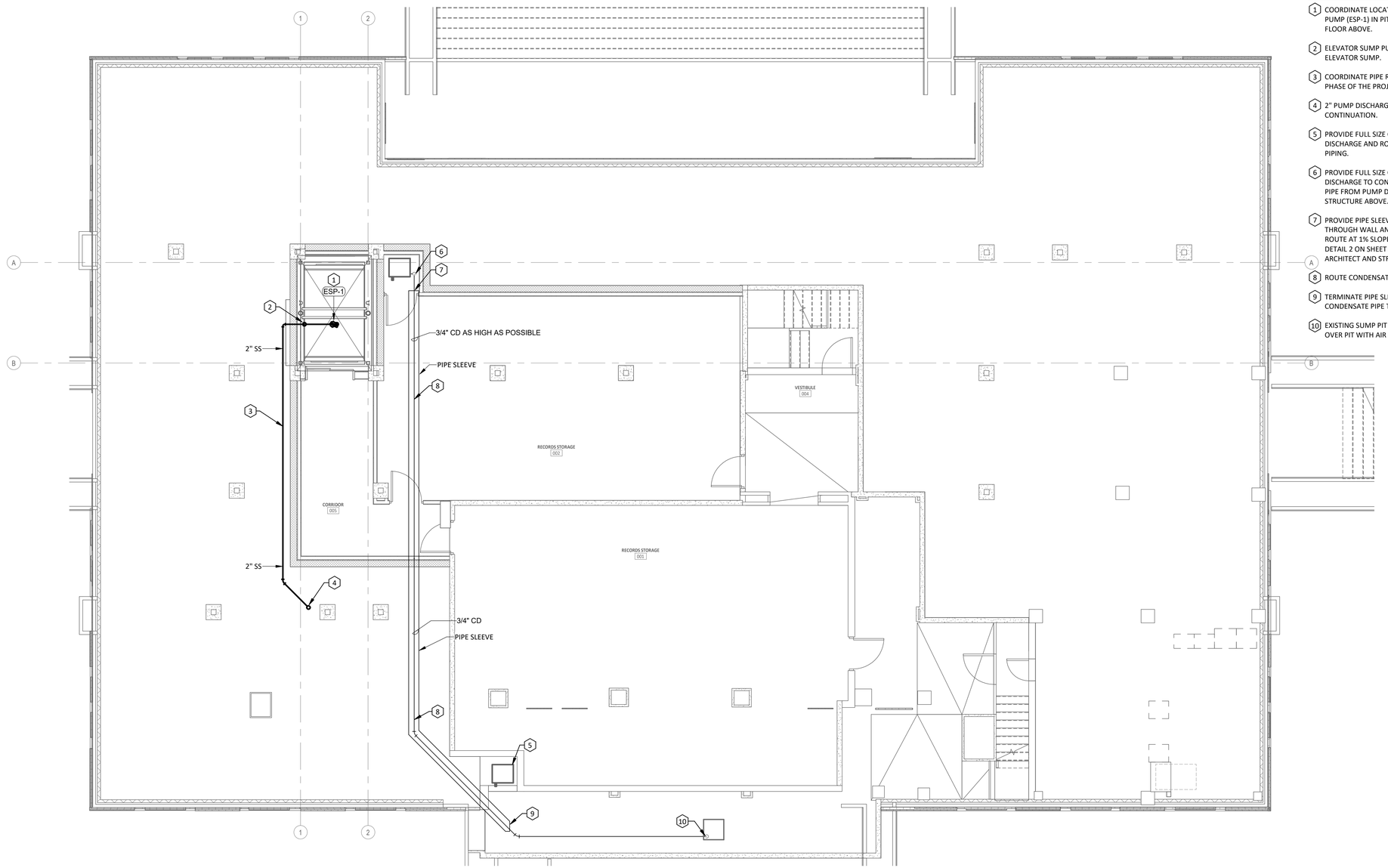

NORTH

1 BASEMENT PLUMBING PLAN - NEW WORK

Plumbing

3/16" = 1'-0"

PLUMBING NEW WORK KEYED NOTES, SHEET P-104:

1. COORDINATE LOCATION OF ELEVATOR PIT. PROVIDE NEW ELEVATOR SUMP PUMP (ESP-1) IN PIT AND ROUTE PUMP DISCHARGE TO MOP SINK ON FLOOR ABOVE.
2. ELEVATOR SUMP PUMP DISCHARGE. RISE DISCHARGE PIPE UP FROM ELEVATOR SUMP.
3. COORDINATE PIPE ROUTING AND INSTALLATION DURING THE EXCAVATION PHASE OF THE PROJECT.
4. 2" PUMP DISCHARGE UP TO FLOOR ABOVE. REFER TO 1/P-101 FOR CONTINUATION.
5. PROVIDE FULL SIZE CONDENSATE CONNECTION FROM HVAC CONDENSATE DISCHARGE AND ROUTE TO LOCATION OF EXISTING CONDENSATE DRAIN PIPING.
6. PROVIDE FULL SIZE CONDENSATE CONNECTION FROM HVAC CONDENSATE DISCHARGE TO CONDENSATE PUMP IN HVAC CLOSET. ROUTE CONDENSATE PIPE FROM PUMP DISCHARGE UP AS HIGH AS POSSIBLE TO BOTTOM OF STRUCTURE ABOVE.
7. PROVIDE PIPE SLEEVE ONE SIZE LARGER THAN CONDENSATE PIPE THROUGH WALL AND ABOVE RECORDS STORAGE AS INDICATED AND ROUTE AT 1% SLOPE TO LOCATION OF EXISTING SUMP PIT. REFER TO DETAIL 2 ON SHEET P-201. COORDINATE PIPE PENETRATION WITH ARCHITECT AND STRUCTURAL ENGINEER.
8. ROUTE CONDENSATE DRAIN PIPE AT 1% SLOPE AS HIGH AS POSSIBLE.
9. TERMINATE PIPE SLEEVE IN BASEMENT CRAWLSPACE AND CONTINUE CONDENSATE PIPE TO LOCATION OF EXISTING SUMP PIT.
10. EXISTING SUMP PIT WITH PUMP. TERMINATE CONDENSATE DRAIN PIPE OVER PIT WITH AIR GAP AS REQUIRED.

0 2' 4' 8' 12'

SCALE: 3/16"=1'-0"

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PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: BASEMENT PLUMBING PLAN - NEW WORK

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: P-104

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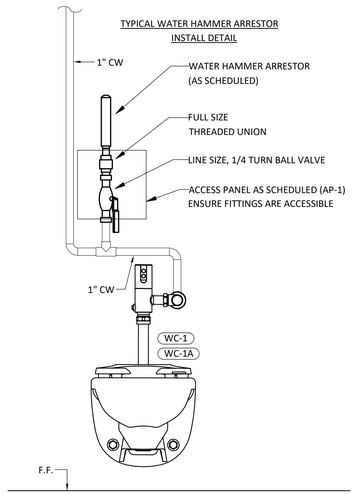
PLUMBING FIXTURE SCHEDULE

MARK	GENERAL DESCRIPTION	MINIMUM ROUGH-IN SIZES				MANUFACTURER AND MODEL	DESCRIPTION
		WASTE	VENT	C.W.	H.W.		
WC-1	WALL MOUNTED WATER CLOSET - MANUAL	4"	2"	1"	---	AMERICAN STANDARD - #2257.101 "AFFWALL" SLOAN - #3910280 -ROYAL -#111 - TP - 1.28 CHURCH - #9500SSCT ZURN - #Z1200	WATER CLOSET: WALL MOUNTED TOILET, 1.28 GPF. MANUAL FLUSH VALVE, 1.28 GALLONS PER FLUSH. SEAT: OPEN FRONT SEAT WITH STAINLESS STEEL SELF SUSTAINING CHECK HINGE AND STA-TITE FASTENING SYSTEM WITH DURAGUARD ANTIMICROBIAL AGENT. CARRIER: FLOOR MOUNTED ADJUSTABLE CARRIER SYSTEM.
WC-1A	ADA-WALL MOUNTED WATER CLOSET - MANUAL	4"	2"	1"	---	AMERICAN STANDARD - #2257.101 "AFFWALL" SLOAN - #3910280 -ROYAL -#111 - TP - 1.28 CHURCH - #9500SSCT ZURN - #Z1200	WATER CLOSET: WALL MOUNTED TOILET, 1.28 GPF. MANUAL FLUSH VALVE, 1.28 GALLONS PER FLUSH. SEAT: OPEN FRONT SEAT WITH STAINLESS STEEL SELF SUSTAINING CHECK HINGE AND STA-TITE FASTENING SYSTEM WITH DURAGUARD ANTIMICROBIAL AGENT. CARRIER: FLOOR MOUNTED ADJUSTABLE CARRIER SYSTEM. INSTALL WATER CLOSET AT ADA HEIGHT.
UR-1	URINAL	2"	1-1/2"	3/4"	---	AMERICAN STANDARD - #6002001.020 SLOAN - ROYAL 186-0.125-HEU ZURN - #Z1221-58	PINTBROOK, 0.125 GPF, HIGH EFFICIENCY URINAL. .125 GPF HIGH EFFICIENCY URINAL FLUSH VALVE. CARRIER: FLOOR MOUNTED CARRIER WITH UPPER MOUNTING PLATE AND FLUSH VALVE SUPPLY SUPPORT.
UR-1A	ADA-URINAL	2"	1-1/2"	3/4"	---	AMERICAN STANDARD - #6002001.020 SLOAN - ROYAL 186-0.125-HEU ZURN - #Z1221-58	PINTBROOK, 0.125 GPF, HIGH EFFICIENCY URINAL. .125 GPF HIGH EFFICIENCY URINAL FLUSH VALVE. CARRIER: FLOOR MOUNTED CARRIER WITH UPPER MOUNTING PLATE AND FLUSH VALVE SUPPLY SUPPORT. INSTALL URINAL AT ADA HEIGHT.
LAV-1	LAVATORY	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD - "LUCERNE" #0355012.020 McGUIRE - #PW215WC, 2-#LFBV2-02 CHICAGO - #420-T45E2805ABCP ZURN - #Z1231 TRUEBRO - #2018-AS-L	LAVATORY: 4" PUNCHING. PROVIDE WITH: PRE-INSULATED OFFSET WHEEL CHAIR WASTE AND P-TRAP WITH STAINLESS STEEL GRID STRAINER, 1-1/2" 17 GAUGE P-TRAP WITH CLEANOUT, 1/2" NPT X 3/8" COMPRESSION 1/4 TURN BALL VALVE STOPS AND COVERS, CHROME PLATED BRASS ESCUTCHEONS, WITH BRAIDED STAINLESS STEEL SUPPLY RISERS . FITTING: 0.5 GPM AERATOR, ASSE 1070 COMPLIANT, CERAMIC CARTRIDGE WITH INLET CHECKS. CARRIER: CONCEALED ARM-WALL LAVATORY CARRIER. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROTECTIVE LAV SHIELD ENCLOSURE.
LAV-1A	ADA-LAVATORY	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD - "LUCERNE" #0355012.020 McGUIRE - #PW215WC, 2-#LFBV2-02 CHICAGO - #420-T45E2805ABCP ZURN - #Z1231 TRUEBRO - #2018-AS-L	LAVATORY: 4" PUNCHING. PROVIDE WITH: PRE-INSULATED OFFSET WHEEL CHAIR WASTE AND P-TRAP WITH STAINLESS STEEL GRID STRAINER, 1-1/2" 17 GAUGE P-TRAP WITH CLEANOUT, 1/2" NPT X 3/8" COMPRESSION 1/4 TURN BALL VALVE STOPS AND COVERS, CHROME PLATED BRASS ESCUTCHEONS, WITH BRAIDED STAINLESS STEEL SUPPLY RISERS . FITTING: 0.5 GPM AERATOR, ASSE 1070 COMPLIANT, CERAMIC CARTRIDGE WITH INLET CHECKS. CARRIER: CONCEALED ARM-WALL LAVATORY CARRIER. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROTECTIVE LAV SHIELD ENCLOSURE.
MS-1	MOP SINK CORNER	3"	2"	1/2"	1/2"	FIAT - #TSBC-1610, #832AA, #MSG, #889CCSHELF T&S BRASS - #B-0665-BSTR-CR	24"X 24"X12" DEEP CORNER MOP SINK WITH 6" HIGH DROP FRONT AND STAINLESS STEEL CAP ON THRESHOLD, 2- 24" X 12" STAINLESS STEEL BACK PANEL WALL GUARDS, 36" HOSE AND HOSE BRACKET, THREE POSITION MOP HANGER. WALL MOUNT SERVICE SINK FITTING WITH PAIL HOOK, TOP MOUNTED WALL STRUT, INTEGRAL-IN STOPS AND CERAMIC CARTRIDGES WITH INLET CHECK VALVES.
MS-2	MOP SINK SQUARE	3"	2"	1/2"	1/2"	FIAT - #MSB2424, #832AA, #MSG24, #889CCSHELF T&S BRASS - #B-0665-BSTR-CR	24"X 24"X10" DEEP SQUARE SERVICE SINK AND STAINLESS STEEL CAP ON TOP EDGES, 2- 24" X 12" STAINLESS STEEL BACK PANEL WALL GUARDS, 36" HOSE AND HOSE BRACKET, THREE POSITION MOP HANGER. WALL MOUNT SERVICE SINK FITTING WITH PAIL HOOK, TOP MOUNTED WALL STRUT, INTEGRAL-IN STOPS AND CERAMIC CARTRIDGES WITH INLET CHECK VALVES.
EDF-1	ELECTRIC DRINKING FOUNTAIN	2"	1-1/2"	1/2"	---	ELKAY #LZSTL8WSAP McGUIRE #8902CNC, #LFBV2-02 ZURN #Z1225	BI-LEVEL, FILTERED, DRINKING FOUNTAIN: 8 GALLON CAPACITY, STAINLESS STEEL CABINET, ENERGY EFFICIENT, REFRIGERATED DRINKING FOUNTAIN WITH BOTTLE FILLER. PROVIDE WITH MCGUIRE 1/2"NPT X 3/8"COMPRESSION, 1/4 TURN BALL VALVE SUPPLY STOP. 1-1/4"17 GA. P-TRAP WITHOUT CLEANOUT, INSULATE P-TRAP AND DRAIN PIPING WITH 1/2"ARMAFLEX INSULATION.CARRIER: IN-WALL FOR BI-LEVEL WITH 2 UPRIGHTS, UPPER PLATE AND LOWER SUPPORT BAR FOR BOTTOM OF DRINKING FOUNTAIN CABINET.
TP-1	TRAP PRIMER	---	---	1/2"	---	PPP-#PR-500	AUTOMATIC PRESSURE DROP ACTIVATED TRAP PRIMER VALVE. SYSTEM OPERATING RANGE 20 PSI MINIMUM TO 80 PSI MAXIMUM. CONNECT TRAP PRIMER TO A COLD WATER SUPPLY ONLY. CONSTRUCTED OF 693 BRASS, EPDM E70 O-RINGS, DOW #7 SILICONE, #60 STAINLESS STEEL MESH SCREEN.
ESP-1	ELEVATOR SUMP PUMP	2"	--	--	--	ZOELLER -#940-0014	ZOELLER OIL-GUARD SYSTEM W/ #10-1526 NEMA-4X ALARM PANEL, #10-1528 OIL SMART PUMP SWITCH, #N161-0090. CAST IRON PUMP (115V, 1/2 HP, 15.0 AMPS); PROVIDE 2" DISCHARGE.
AP-1	ACCESS PANEL	---	---	---	---	MILCOR - #3203012	12" X 12" DRYWALL ACCESS PANEL, 16 GAUGE STEEL PANEL AND FRAME, CONCEALED SPRING HINGE, EASY OPEN CAM LATCH, WHITE POWDER COATED STEEL. COORDINATE FINAL FINISH COLOR W/ ARCH.

NOTE: PLUMBING FIXTURES AND FITTINGS EQUAL TO THE LISTED PRODUCT OF OTHERS WILL BE CONSIDERED.

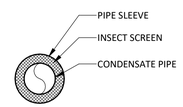


1 WATER HAMMER ARRESTOR DETAIL
Plumbing NOT TO SCALE

WATER HAMMER ARRESTOR SCHEDULE

MARK	N.P.T.	FIXTURE UNIT CAPACITY	LOCATION	SIOUX CHIEF MODEL NO. OR EQUAL	DESCRIPTION
WHA-A	1/2"	1-11	ACCESSIBLE VIA ACCESS PANEL	652-A	PISTON OPERATED, MAINTENANCE FREE, MIL-D-82036, TYPE II, NON-BLADDER TYPE. PD-WH-201 (R1983)
WHA-B	3/4"	12-32		653-B	
WHA-C	1"	33-60		654-C	
WHA-D	1"	61-113		655-D	
WHA-E	1"	114-154		656-E	

NOTE: PLUMBING FIXTURES EQUAL TO THE LISTED PRODUCT OF OTHERS WILL BE CONSIDERED.



NOTES:
1. REFER TO FLOOR PLAN FOR CONDENSATE PIPE SIZE.
2. PLACE AND SECURE INSECT SCREEN BETWEEN PIPE SLEEVE AND CONDENSATE PIPE AT OPEN ENDS OF PIPE SLEEVE.

2 CONDENSATE PIPE SLEEVE TERMINATION DETAIL
Plumbing NOT TO SCALE

Fisher Heck ARCHITECTS
915 SOUTH ST MARY'S STREET
SAN ANTONIO, TEXAS
FISHER-HECK.COM
210-299-1500

ENGINEERING & COMMISSIONING
SKYE MEP
8610 BROADWAY, SUITE 415
SAN ANTONIO, TEXAS 78217
STATE OF TEXAS FIRM REGISTRATION NO. F-19468
PROJECT NO.: 2023.044

STATE OF TEXAS
DAVID R. GONZALES
97449
LICENSED
PROFESSIONAL ENGINEER
2/13/26

PROJECT: LIVE OAK CCH RESTORATION - PHASE II

SHEET TITLE: PLUMBING SCHEDULES AND DETAIL

PROJECT NO: 2308 A1

△ REVISIONS DATE

SHEET NO: P-201

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