PHASE III RENOVATION



13313 Southwest Freeway, Suite 163 Sugar Land, Texas 77478 (281) 494-1230 (voice) (281) 494-1234 (fax)

NO.	SHEET NAME	LATEST REVISION	ISSUE DATE	NO.	SHEET NAME
2-COV	/FR				
0	COVER		01/24/2025	11-FLF	ECTRICAL
0			0 1/2 1/2020	E001	ELECTRICAL DE
3-GEN	IERAL			E100	ELECTRICAL LI
G001	ABBREVIATIONS		01/24/2025	E200	ELECTRICAL PO
G002	ADA - TAS 2012 REQUIREMENTS		01/24/2025	E300	SPECIAL SYSTE
G101			01/24/2025	E400	ELECTRICAL OF
G102	INTERIOR PARTITION TYPE SCHEDULES		01/24/2025	E401	PANELS, SCHEI
				E500	ELECTRICAL SP
6-DEN D110	IOLITION DEMOLITION PLAN		01/24/2025		
D120	DEMOLITION REFLECTED CEILING PLAN		01/24/2025		
A100 A101 A110 A111 A120 A201 A310	SITE PLAN SITE PLAN - DETAILS REFERENCE FLOOR PLAN DIMENSION PLAN REFLECTED CEILING PLAN EXTERIOR BUILDING ELEVATIONS DETAILS		01/24/2025 01/24/2025 01/24/2025 01/24/2025 01/24/2025 01/24/2025 01/24/2025		
A411	ENLARGED PLANS & INTERIOR ELEVATIONS		01/24/2025		
A510	DOOR & WINDOW SCHEDULES		01/24/2025		
A610	INTERIOR FINISH PLAN		01/24/2025		
A611	INTERIOR ROOM FINISH SCHEDULE & SIGNAGE		01/24/2025		
A710	FURNITURE FIXTURE EQUIPMENT & SCHEDULE		01/24/2025		
8-STR	UCTURAL				
S001	STRUCTURAL GENERAL NOTES		01/24/2025		
S100	OVERALL FOUNDATION PLAN		01/24/2025		
S110	PLANS AND DETAILS		01/24/2025		
S400	TYPICAL FOUNDATION DETAILS		01/24/2025		
S415	TYPICAL METAL STUD DETAILS		01/24/2025		
S416	TYPICAL METAL STUD DETAILS		01/24/2025		
	CHANICAL				
M001	MECHANICAL SYMBOLS AND LEGENDS		01/24/2025		
	D DEMO HVAC PLAN		01/24/2025		
M001	MECHANICAL SYMBOLS AND LEGENDS		01/24/2025		
M100	HVAC PLAN		01/24/2025		
M101	MECHANICAL ROOF PLAN		01/24/2025		
M400	MECHANICAL SCHEDULES		01/24/2025		
M500	MECHANICAL DETAILS		01/24/2025		
M600	MECHANICAL SPECIFICATIONS		01/24/2025		

WORKFORCE SOLUTIONS 4981 AYERS STREET CORPUS CHRISTI, TX 78415



CONSTRUCTION DOCUMENTS 01/24/2025



615 N. Upper Broadway Suite 1250 Corpus Christi, TX 78401-0750 T: 361.884.3295 F: 361.884.3298

www.clkarch.com

LATEST REVISION ISSUE DATE

SHEET INDEX

CAL DEMOLITION PLAN	01/24/2025
CAL LIGHTING PLAN	01/24/2025
CAL POWER PLAN	01/24/2025
SYSTEMS PLAN	01/24/2025
CAL ONE-LINE DIAGRAM	01/24/2025
SCHEDULES, & ONE-LINE	01/24/2025
CAL SPECIFICATIONS & DETAILS	01/24/2025

I NRG Engineering Mechanical - Electrical - Plumbing 5656 S. Staples Suite 360 Corpus Christi, TX 78411 T: 361-852-2727 F: 361-852-2922

AREA OF WORK SUITE 4985 -

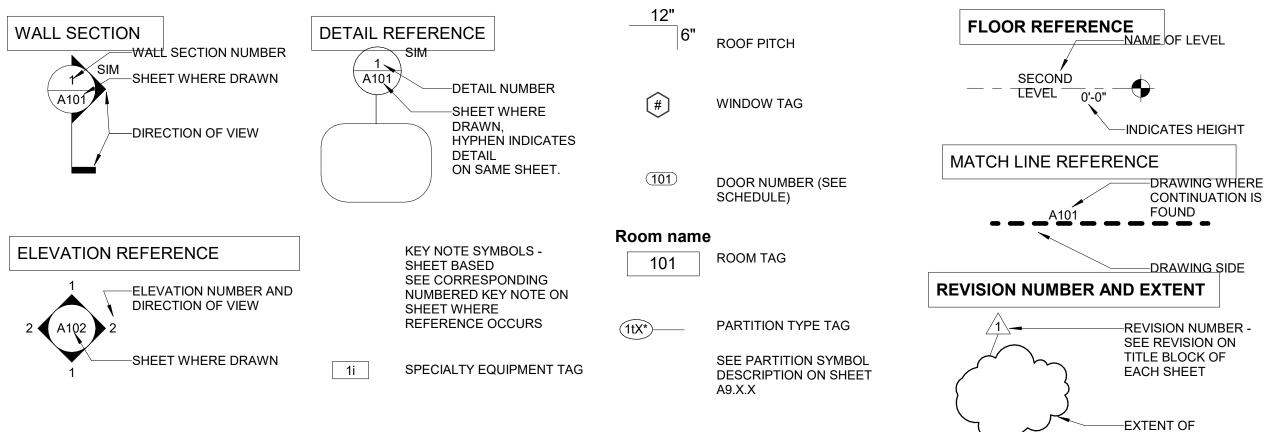


SITE PLAN

PROJEC	т сор	E SU	IMMARY					
APPLICABLE CODES & REGULA	TIONS:	LOCA		<u>S:</u>				
2021 ICC INTERNATIONAL BUILDING CODE								
2021 ICC EXISTING BUILDING CODE								
2021 ICC ENERGY CONSERVATION CODE								
2015 ICC INTERNATIONAL FIRE CODE								
2021 ICC FUEL GAS CODE								
2021 ICC MECHANICAL CODE								
2021 ICC PLUMBING CODE								
2020 NFPA NATIONAL ELECTRIC CODE								
2012 TEXAS ACCESSIBILITY STANDARDS								
AMERICANS WITH DISABILITIES ACT, TITLE	E III							
PROJECT SQUARE FOOTAGE:								
RENOVATION: 6,340 SF								
OCCUPANCY & AREA	DETERMIN	IATION	REFERENCE					
OCCUPANCY TYPE:	B, A		IBC SECTION 304.	1				
OCCUPANT LOAD:	278		IBC 2015 TABLE 10	004.1.2				
CONSTRUCTION TYPE:	TYPE II-B		IBC CH. 6					
ALLOWABLE FLOOR AREA:			IBC CH. 5					
FIRE RESISTANCE SCHEDULE:								
FLOOR CONSTRUCTION:	0HR		IBC TABLE 601	TX ADMIN CODE CH. 135				
SECONDARY WF BEAMS/GIRDERS:	0HR							
SECONDARY TS COLUMN/TRUSS:	0HR							
ROOF CONSTRUCTION:	0 HR		IBC TABLE 601					
SECONDARY WF BEAMS/GIRDERS:	0 HR							
SECONDARY TS COLUMN/TRUSS:	0 HR							
INTERIOR RATED WALLS:	N/A		ULU419					
LIFE SAFETY								
FIRE SPRINKLER SYSTEM:	YES		IBC 903.2.6, IFC 11	103.5				
	1		1					



REFERENCE SYMBOLS & TAGS

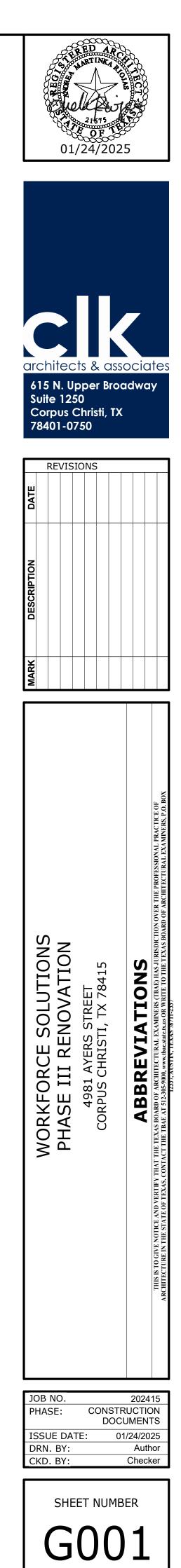


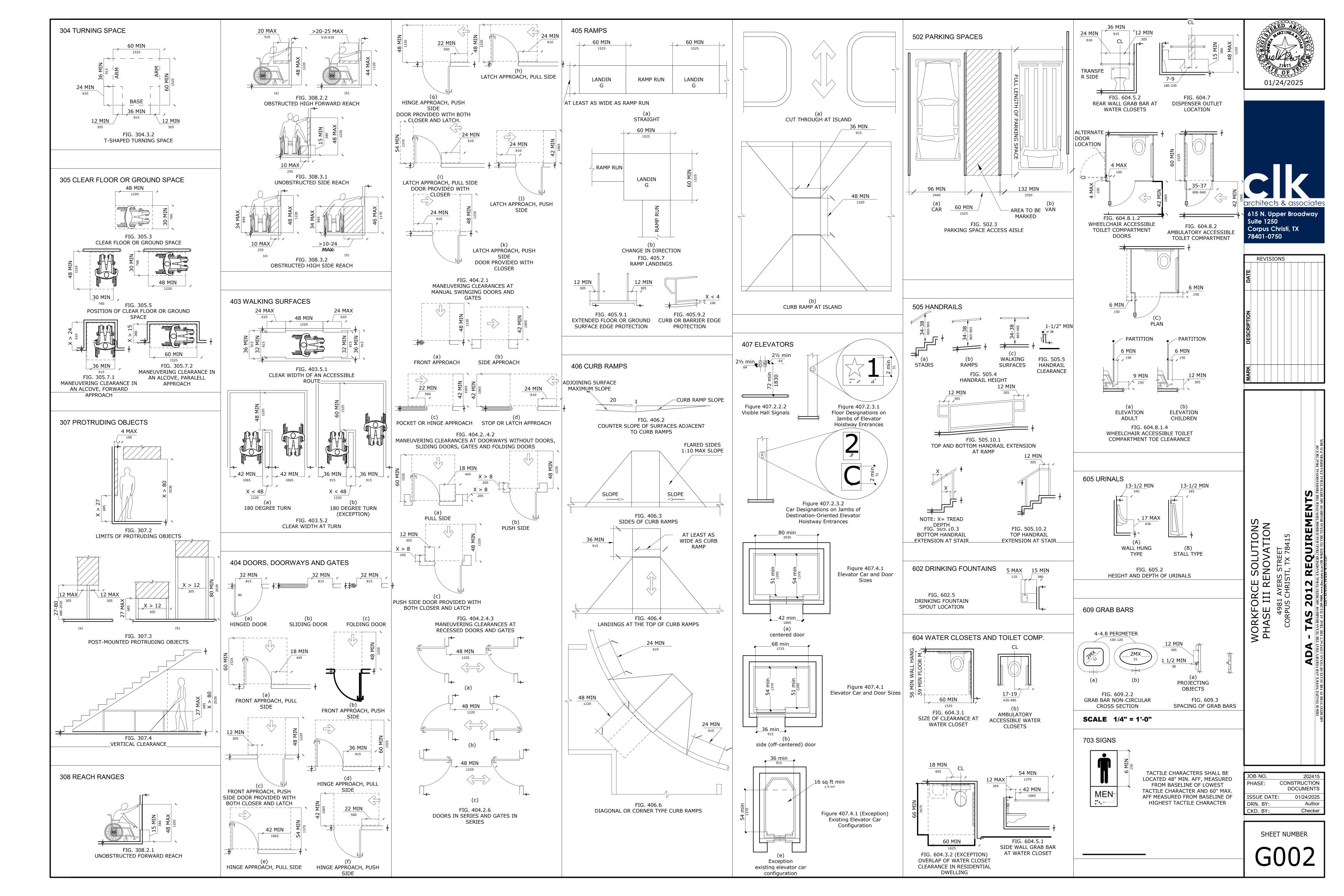
INFO - ABBREVIATIONS

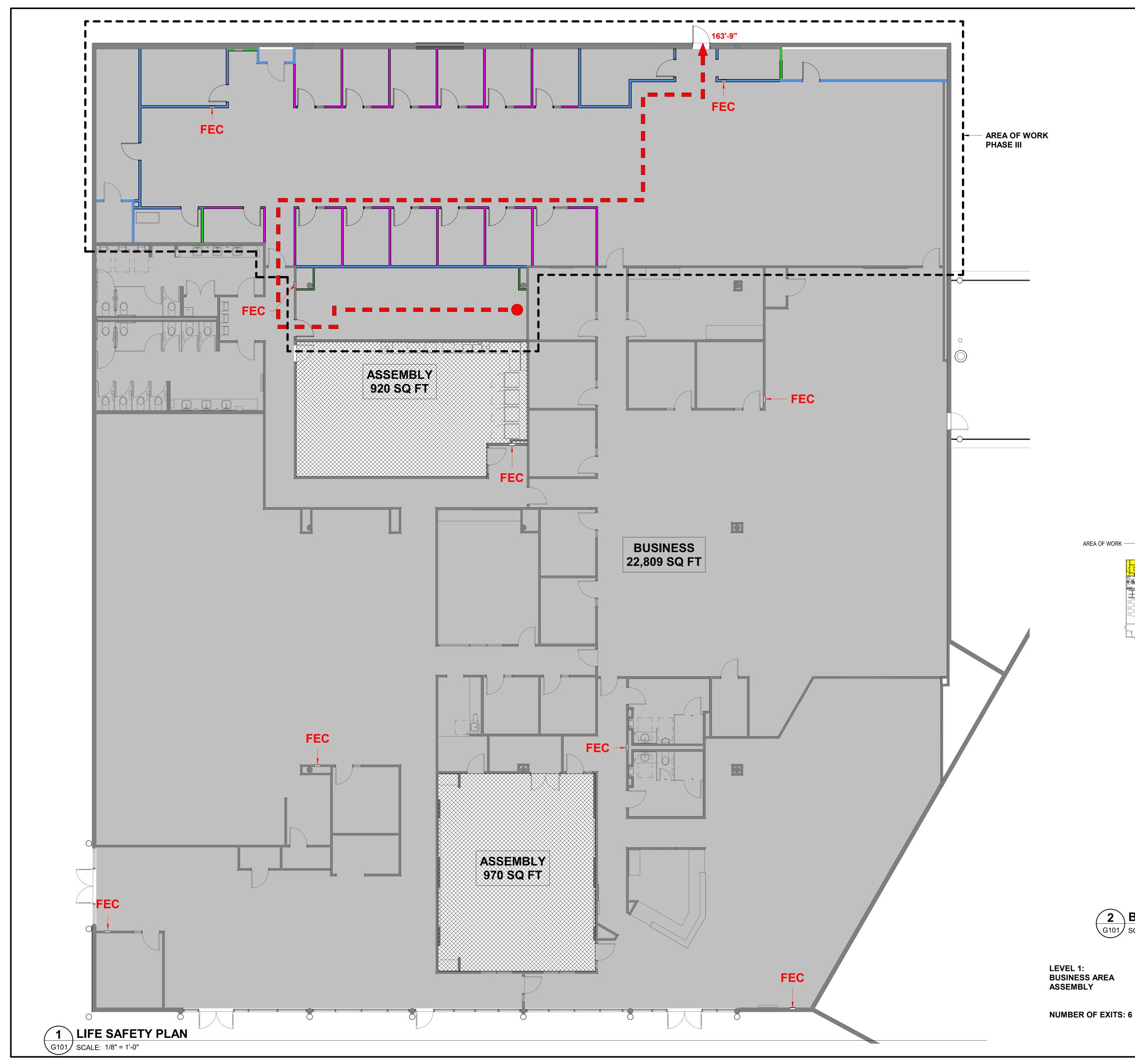
#	POUND OR NUMBER
&	AND
@	AT
ACT	ACOUSTIC CEILING TILE ADMINISTRATION OR ADMINISTRATOR
	ADMINISTRATION OR ADMINISTRATOR ABOVE FINISH FLOOR
AFF	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISH GRADE
	ALUMINUM ALUMINUM
ANOD.	ANODIZED
	ASSISTANT
	BOARD BUILDING
	BOTTOM OF
BOT	BOTTOM
C.F.	CONTRACTOR FURNISHED
CFB. CG.	CEMENT FIBER BOARD CORNER GUARD
C.I.	CONTRACTOR INSTALLED
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.L. CLG	CENTER LINE CEILING
CLR.	CLEAR
CLS	CLOSET
CMU CONC	CONCRETE MASONRY UNIT CONCRETE MASONRY UNIT
CONC	CONTINUOUS
COL	COLUMN
CORR	CORRIDOR
COR. CONC.	CORRIDOR CONCRETE
	CONFERENCE
CONT.	CONTINUOUS
CPT	CARPET
CT DBL.	CERAMIC TILE DOUBLE
DET.	DETAIL
	DEMOLISH OR DEMOLITION
DIA. DISC.	DIAMETER DISCONNECT
DISC. DIM	DISCONNECT
	DOWN
	DOOR
DWG	DRAWING
EA	DRAWINGS EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
	ELEVATION
	EXPANSION JOINT ELECTRICAL
ELEV.	ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE M-CLASS (ROOFING) EQUAL
EQ.	EQUAL EQUIPMENT
	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXIST.	EXISTING EXHAUST EXPOSED
EXH. EXP	EXHAUST
EXT.	EXTERIOR
F/A, FA	FIRE ALARM
	FLOOR DRAIN
FEC F.F.	FIRE EXTINGUISHER CABINET FINISH FLOOR
FFE	FINISH FLOOR FURNITURE, FIXTURES, & EQUIPMENT
FIN	FINISHED FLOOR ELEVATION
FL FLR.	FLOOR
	FLUORESCENT
F.O.	FACE OF
FT	FOOT, FEET, OR FLOOR TILE FIELD VERIFY
г.v. GA.	
	GALVANIZED
GFI	GROUND FAULT INTERUPTER
GND.	GROUND . GYPSUM BOARD
GYP.	GYPSUM BOARD
H.C.	HOLLOW CORE
HDW H.M.	HARDWARE HOLLOW METAL
H.M. HR	HOUR
HRS.	HOURS
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
INSUL INT	INSULATION INTERIOR
IT	INFORMATION TECHNOLOGY

CURRENT REVISION

JAN	JANITOR
JT	JOINT
JNT.	JOINT
LAM LF.	LAMINATE LEFT
LO	LOW
MAX	MAXIMUM
MCJ MECH	MASONRY CONTROL JOINT MECHANICAL
	MEMBRANE
MFG	MANUFACTURER
	MANUFACTURER
MIN MTD	MINIMUM MOUNTED
MTG	MOUNTING
MTL N.A.	
	NOT APPLICABLE NOT IN CONTRACT
NO	NUMBER
	ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED
OFCI	OPPOSITE HAND
-	OPPOSITE HAND
OZ.	
PLAM PCC	PLASTIC LAMINATE PRE-CAST CONCRETE
PLUMB	PLUMBING
PLWD. PNT	PLYWOOD PAINT, OR PAINTED
PSI	POUNDS PER SQUARE INCH
PT.	PRESSURE TREATED
PVC PWR	POLYVINYL CHLORIDE POWER
RBR.	RUBBER
RCP	REFLECTED CEILING PLAN
RD REFR	ROOF DRAIN REFERENCE
REF.	REFERENCE
RE:	REFERENCE
REQ. RD	REQUIRE OR REQUIRED ROOF DRAIN
R.O.	ROUGH OPENING
RM.	ROOM
RT. SAT	RIGHT SUSPENDED ACOUSTICAL TILE
SCHED	SCHEDULED
SDT	STATIC DISSIPATIVE TILE
SF SHT	SQUARE FOOT SHEET
SIM	SIMILAR
SL	
SO SPEC.	STRUCTURAL OPENING SPECIFICATION OR SPECIFIED
SPK.	SPRINKLER OR SPEAKER
SQ FT SS	SQUARE FEET SANITARY SEWER
SSM	SOLID SURFACE MATERIAL
SSTL.	STAINLESS STEEL
STC	SOUND TRANSMISSION COEFFICIENT STRUCTURE, OR STRUCTURAL
STL	STEEL
SYS	SYSTEM
VCT VWC	VINYL COMPOSITION TILE VINYL WALL COVERING
	VERTICAL
TBD	TO BE DETERMINED
TELE	TELEPHONE
T&G	TONGUE AND GROOVE
THK. TLT.	THICKNESS OR THICK TOILET
т <u>г</u> т. Т.О.	TOP OF
ТОВ	TOP OF BEAM
T.O.C. TOJ	TOP OF CONCRETE TOP OF JOIST
TOP	TOP OF PARAPET
TOR	TOP OF ROOF
T.O.S. TPD.	TOP OF STEEL TOILET PAPER DISPENSER
T/D	TELEPHONE / DATA
TV	TELEVISION
typ Uno	TYPICAL UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
U/S	
VCT VEST.	VINYL COMPOSITION TILE VESTIBULE
V.I.F.	VERIFY IN FIELD
VP W/	VISION PANEL WITH
WB	WALL BASE
WD.	WOOD
WT	WALL TILE



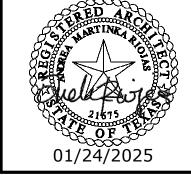




PROJECT GENERAL NOTES

- 1. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
- 2. DO NOT SCALE THE DRAWING. IF DIMENSIONS ARE IN QUESTION. OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING.
- 3. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF FINISH OF INTERIOR WALLS, TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR MASONRY WALLS, UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS AND TO FINISH FACE OF NEW STUD WALLS, UNLESS OTHERWISE INDICATED.
- 4. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OF OF/CI EQUIPMENT. MINIMUM REQUIRED OPENINGS AND ACCESSIBLE ROUTES TO THE INSTALLATION AREA SHALL BE COORDINATED WITH THE SUPPLIER.
- 5. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE SLAB UNLESS OTHERWISE NOTED.
- 6. COORDINATE EXACT SIZE AND PLACEMENT OF EQUIPMENT BASE AND HOUSEKEEPING PADS WITH EQUIPMENT TO BE PROVIDED.
- 7. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE OFFSET AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD ON BOTH SIDES.
- 8. LEVEL FLOORS SO THAT THEY DO NOT EXCEED A 1/4" VARIANCE IN A 10'-0" RADIUS.
- 9. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS AND POWERHOUSE. COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
- 10. WHEN PROVIDED, ALL EXTERIOR STEEL HANDRAILS, GUARDRAILS, AND BOLLARDS SHALL BE GALVANIZED AND PAINTED UNLESS OTHERWISE NOTED.
- 11. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
- 12. APPROVE FLOOR OUTLET LOCATIONS WITH ARCHITECT AND BUILDING MANAGEMENT PRIOR TO CORE DRILLING.
- 13. OPENINGS IN A RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEMS OR PROTECTED WITH A FIRE RATED CHASE.
- 14. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN CEILINGS SHALL BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- 15. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
- 16. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
- 17. SEALANTS EXPOSED TO VIEW SHALL BE CUSTOM COLOR AS SELECTED BY THE ARCHITECT.
- 18. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.
- 19. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, AND CABINET WORK WITH ADJACENT MATERIALS. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
- 20. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES INSTALLED WITHIN 2' OF A URINAL, WATER CLOSET, SINK OR LAVATORY SHALL BE MOISTURE SEALED.
- 21. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH, I.E. CEILING SYSTEM WIRE HANGERS FROM JOISTS AND/ OR BEAMS. IF NO JOIST OR BEAM, PROVIDE A STEEL STRIP.

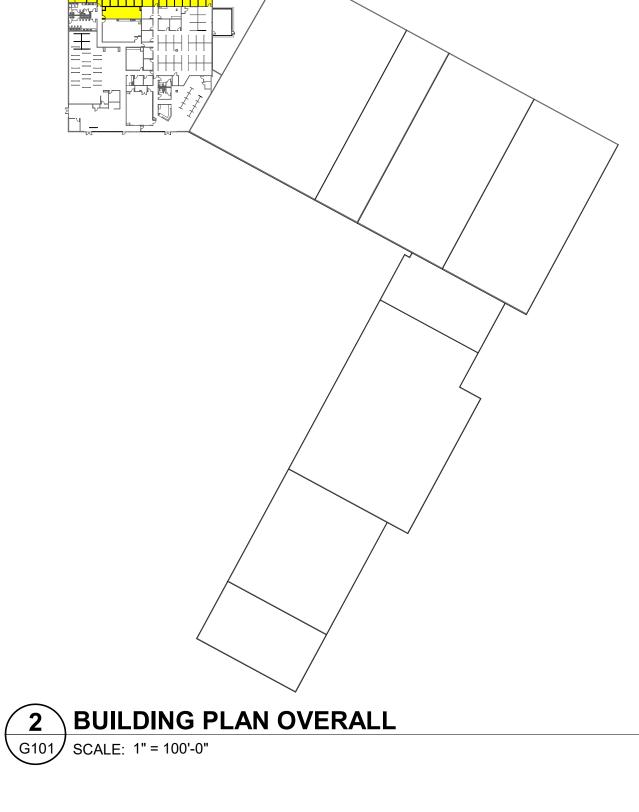
AREA OF WORK -----



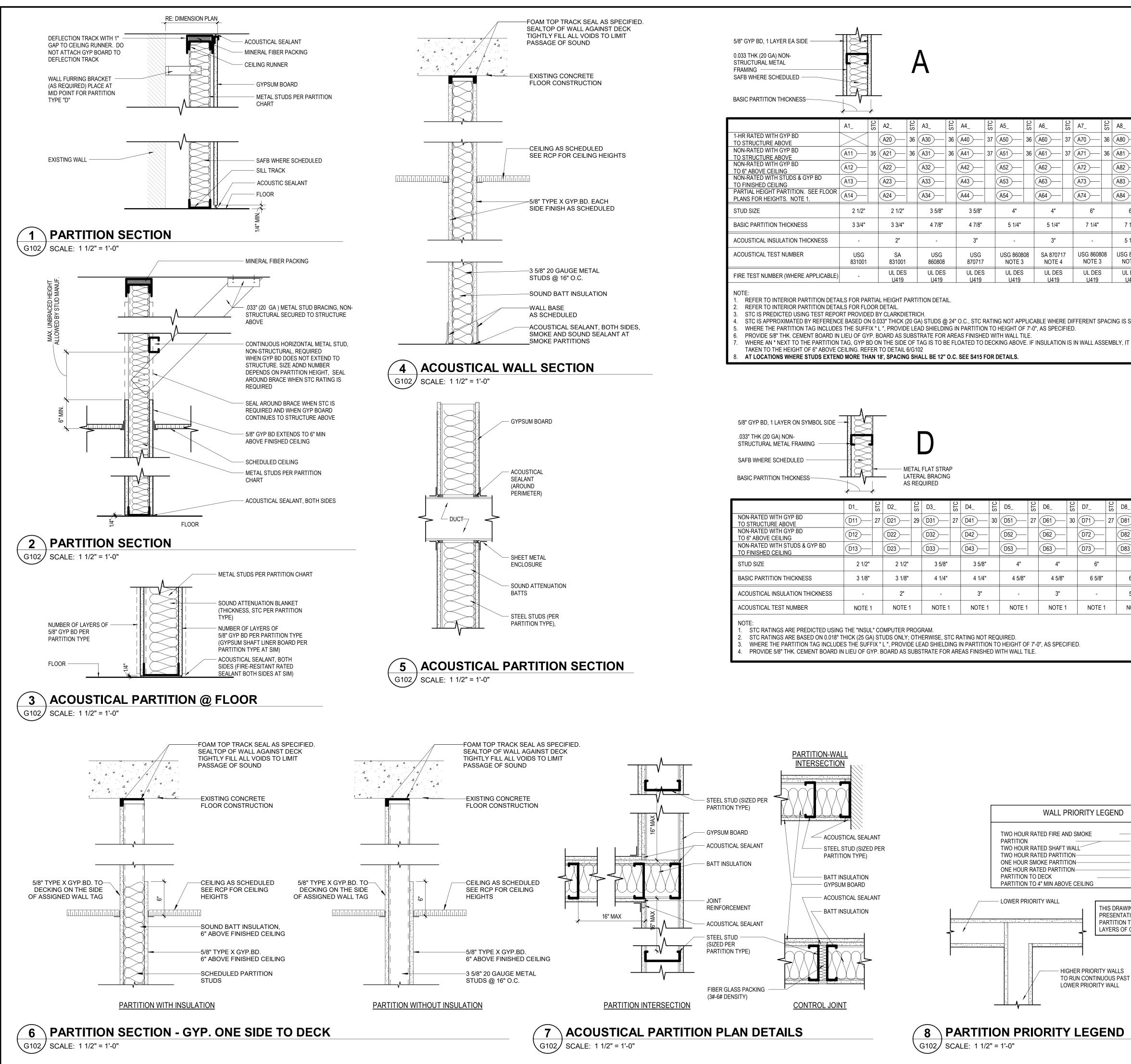


	RE۱	/IS	SIO	NS	5			
DATE								
DESCRIPTION								
MARK								

WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISTI, TX 78415	LIFE SAFETY PLANS	THIS IS TO GIVE NOTICE AND VERTIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS, CONTACT THE TBAE AT 512-305-9000, www.baestate.tus OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX ARCHITECTURE IN THE STATE OF TEXAS, CONTACT THE TBAE AT 512-305-9000, www.baestate.tus OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX
JOB NO. PHASE: ISSUE DAT DRN. BY: CKD. BY:		JMEN ⁻ /24/20 /	DN TS
SHE G	ет NUMBI	ER 1	



	AREA	NET	GROSS	NUMBER OF OCCUPANTS
AREA	22,809 SF	NO	YES	152
,	1,890 SF	NO	YES	126
			TOTAL:	278



		+																	
	A1_	STC	A2_	STC	A3_	STC	A4_	STC	A5_	STC	A6_	STC	A7_	STC	A8_	STC	A9_	STC	RE: DETAIL
1-HR RATED WITH GYP BD TO STRUCTURE ABOVE	\searrow		(A20)	36	(A30)	36	(A40)	37	(A50)	36	(A60)	37	(A70)	36	(A80)	39	(A90)	40	01, 04/A611
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	(A11)	35	(A21)	36	(A31)	36	(A41)	37	(A51)	36	(A61)	37	(A71)	36	(A81)	39	(A91)	40	01, 04/A611
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	A12-		(A22)		(A32)		(A42)		(A52)		(A62)		A72—		(A82)		(A92)		01, 02, 04/A611
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	A13—		A23—		(A33)		(A43)		(A53)		(A63)		(A73)		(A83)		(A93)		04/A611
PARTIAL HEIGHT PARTITION. SEE FLOOR PLANS FOR HEIGHTS. NOTE 1.	(A14)		(A24)		(A34)		(A44)		(A54)		(A64)		(A74)		(A84)		(A94)		05/A611
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"		8"		
BASIC PARTITION THICKNESS	3 3/4"		3 3/4"		4 7/8"		4 7/8"		5 1/4"		5 1/4"		7 1/4"		7 1/4"		9 1/4"		
ACOUSTICAL INSULATION THICKNESS	-		2"		-		3"		-		3"		-		5 1/2"		7 1/2"		
ACOUSTICAL TEST NUMBER	USG 831001		SA 831001		USG 860808		USG 870717		USG 8608 NOTE 3		SA 87071 NOTE 4	7	USG 8608 NOTE 3		USG 8707 NOTE 4				
FIRE TEST NUMBER (WHERE APPLICABLE)	-		UL DES U419		UL DES U419		UL DES U419		UL DES U419		UL DES U419		UL DES U419		UL DES U419)			

STC IS APPROXIMATED BY REFERENCE BASED ON 0.033" THICK (20 GA) STUDS @ 24" O.C., STC RATING NOT APPLICABLE WHERE DIFFERENT SPACING IS SPECIFIED

WHERE AN * NEXT TO THE PARTITION TAG, GYP BD ON THE SIDE OF TAG IS TO BE FLOATED TO DECKING ABOVE. IF INSULATION IS IN WALL ASSEMBLY. IT IS TO BE

.033" THK (20 GA) NON- STRUCTURAL METAL FRAMING)														
SAFB WHERE SCHEDULED			META	41 F	FLAT STRA	P													
BASIC PARTITION THICKNESS			– LATE	RA	L BRACING UIRED														
	D1_	STC	D2_ 5	S IC	D3_	STC	D4_	STC	D5_	STC	D6_	STC	D7_	STC	D8_	STC	D9_	STC	
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	D11-	27	D21 2	29	D31 —	27	D41-	30		27		30	(D71)	27	(D81)	31		26	3,4/A611
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	D12-		D22—		D32—		D42-		D52—				D72—				D92—		2,4/A611
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	D13-	-	D23—		D33—		D43-		D53—				D73—		D83—		D93—		4/A611 S
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"		1 1/2"		
BASIC PARTITION THICKNESS	3 1/8"		3 1/8"		4 1/4"		4 1/4"		4 5/8"		4 5/8"		6 5/8"		6 5/8"		2 1/8"		
ACOUSTICAL INSULATION THICKNESS	-		2"		-		3"		-		3"		-		5 1/2"		1 5/8"		
ACOUSTICAL TEST NUMBER	NOTE '	1	NOTE 1		NOTE 1	l	NOTE 1												

LEGEND	
	PRIORITY 1 HIGHEST PRIORITY 2
	PRIORITY 3 PRIORITY 4 PRIORITY 5 PRIORITY 6 LOWEST

THIS DRAWING IS FOR GRAPHIC PRESENTATION ONLY. REF PARTITION TYPE FOR NUMBER OF LAYERS OF GYP BD, ETC.

PARTITION TYPES GENERAL NOTES

1. REFER TO FLOOR PLAN SERIES A-100 FOR LOCATION OF PARTITION TYPES. NOT ALL PARTITION TYPES SHOWN ARE UTILIZED.

PARTITION TYPE TAG ? (AS SHOWN ON PLAN A-111)

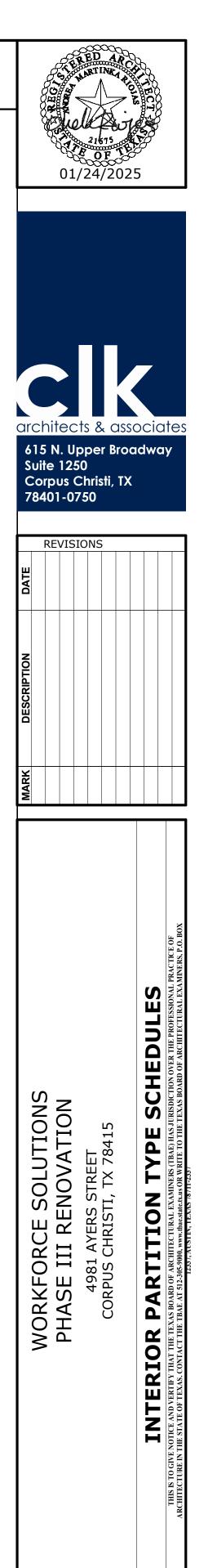
- 2. REFER TO A-600 SERIES FOR FINAL FINISHES ON PARTITIONS. PARTITION TYPES IN CHARTS REFER TO BASE WALL ONLY.
- WHEN BLOCKING REQUIRED IN A PARTITION, USE A MINIMUM .033" (20 GA) STUD.
- 4. "LINE OF STRUCTURE" AS SHOWN AT THE HEAD CONDITIONS OF THE PARTITION DETAIL DOES NOT INDICATE THE EXACT CONSTRUCTION CONDITION. REFER TO G-100 SERIES FOR ADDITIONAL INFORMATION CONCERNING RATED PARTITIONS.
- ISOLATE NON-LOAD BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT THE TRANSFER OF LOAD TO PARTITION FRAMING. STOP STUDS 3/4" BELOW CEILING RUNNER (TOP TRACK) TO ALLOW FOR VERTICAL EXPANSION. SET TOP TRACK 1" BELOW DEFLECTION CHANNEL. DO NOT ATTACH STUDS TO TOP TRACK. DO NOT ATTACH GYPSUM BOARD TO THE DEFLECTION TRACK. THIS MAY ALSO BE ACHIEVED, AT THE CONTRACTOR'S OPTION, BY UTILIZING THE PROPRIETARY SYSTEM DESCRIBED IN THE SPECIFICATIONS.
- 6. REFER TO G-100 SERIES FOR NOTES REGARDING STUDS AT OPENINGS.

FIRE RATED PARTITIONS

. REFER TO G-100 SERIES FOR ADDITIONAL INFORMATION ON PENETRATIONS THRU RATED PARTITIONS, FIRE RESISTANT JOINT SYSTEMS, SLIP TRACKS AT NON-BEARING PARTITIONS CONNECTION TO STRUCTURE AND WALL PRIORITY.

ACOUSTICAL (THE FOLLOWING NOTES APPLY TO ALL PARTITIONS DESIGNATED TO HAVE A SOUND TRANSMISSION CLASS (STC) RATING ON THE PARTITION CHARTS.)

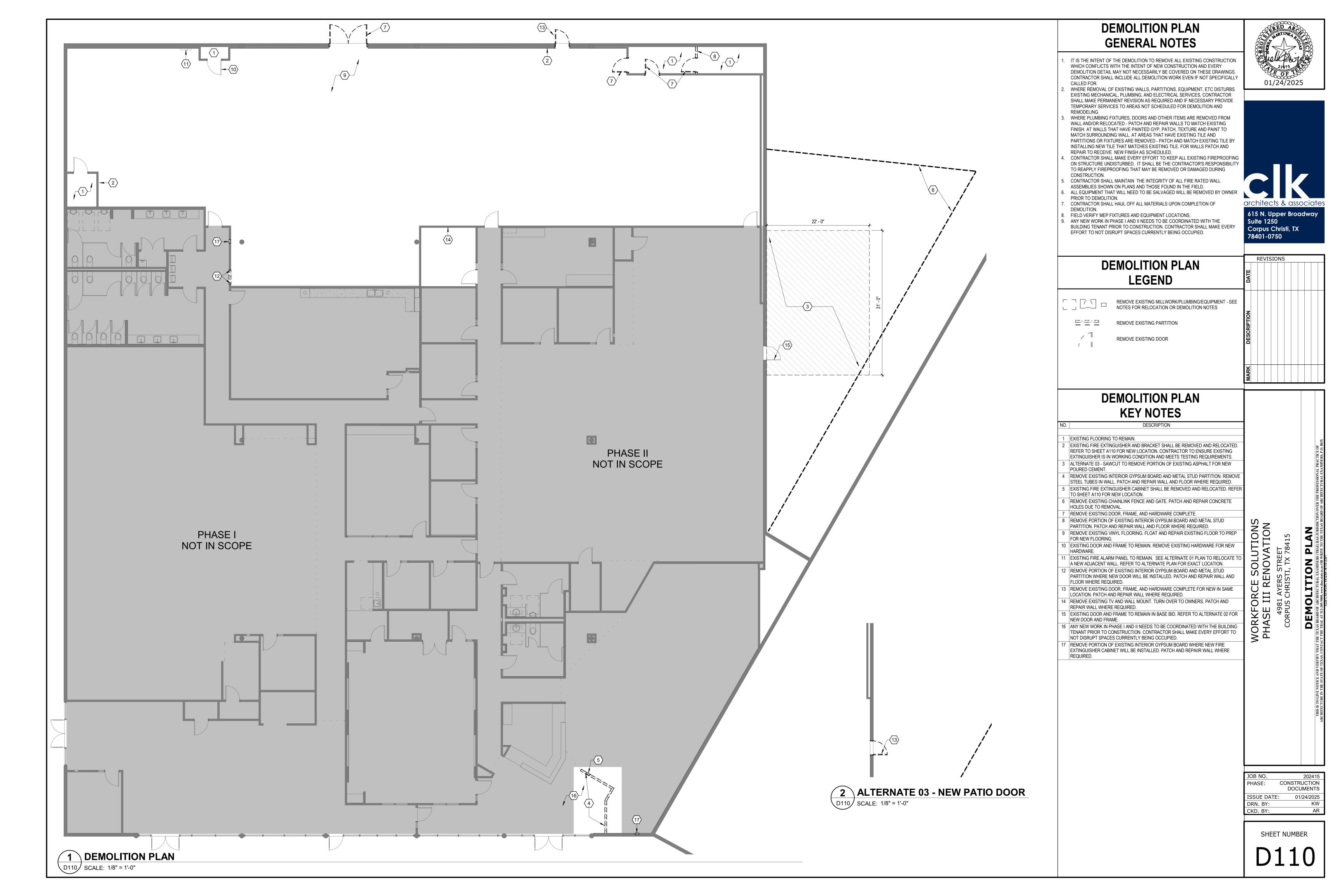
- 1. ALL ACOUSTICALLY CLASSED PARTITIONS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE REFERENCED TEST.
- STAGGER AND SEAL ALL JOINTS ON MULTIPLE GYPSUM BOARD LAYER PARTITIONS.
- 3. SEAL PARTITIONS AIR TIGHT AT FLOORS, SIDES, AND CEILINGS ON BOTH SIDES WITH NON-HARDENING ACOUSTICAL SEALANT IN ACCORDANCE TO REFERENCED TEST.
- 4. ALL BATTS AND BLANKETS IN RATED PARTITIONS MUST BEAR THE REQUIRED UL CLASSIFICATION MARKING AS TO FIRE-RESISTANCE. REFER TO G-100 SERIES.
- 5. AVOID COMPRESSING ACOUSTICAL BATT INSULATION AT BLOCKING AND RECESSED ITEMS IN ACOUSTIC RATED WALLS
- 6. SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS AT ACOUSTICALLY CLASSED PARTITIONS.
- 7. SEAL ALL CONDUIT, STRUCTURAL, DUCT AND LARGE PIPE PENETRATIONS ACCORDING TO CODE COMPLIANCE DETAILS. REFERENCE PROJECT CODE SUMMARY
- 8. OUTLETS ON OPPOSITE SIDES OF ACOUSTICALLY CLASSED PARTITIONS SHOULD BE SEPARATED BY A MINIMUM OF ONE STUD. SEAL OUTLETS IN AS REQUIRED. IF THE PARTITION IS FIRE RATED THEN REFER TO PROJECT CODE SUMMARY.
- 9. ALL BOXES REQUIRED TO BE ACOUSTICALLY SEALED SHALL BE SEALED PRIOR TO CLOSING IN PARTITIONS AND INSTALLING DEVICES AND COVER PLATES. VERIFY COMPLIANCE WITH STC#.



JOB NO.	202415
PHASE:	CONSTRUCTION
	DOCUMENTS
ISSUE DATE	01/24/2025
DRN. BY:	AG
CKD. BY:	AR

SHEET NUMBER

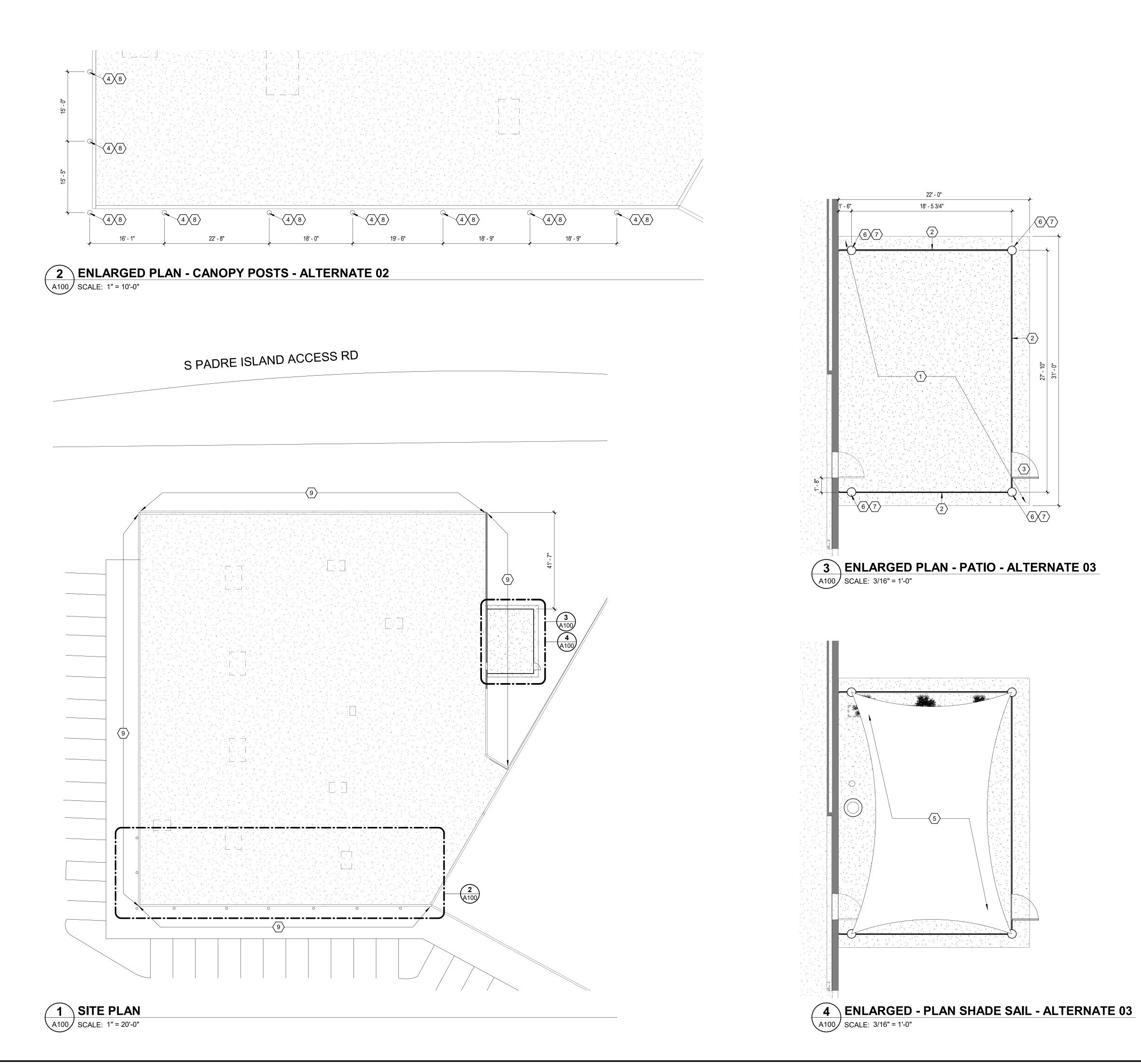






D120 SCALE: 1/8" = 1'-0"

DEMOLITION RCP GENERAL NOTES 1. IT IS THE INTENT OF THE DEMOLITION TO REMOVE ALL EXISTING CONSTRUCTION	STUDENT STATES
 WHICH CONFLICTS WITH THE INTENT OF NEW CONSTRUCTION AND EVERY DEMOLITION DETAIL MAY NOT NECESSARILY BE COVERED ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE ALL DEMOLITION WORK EVEN IF NOT SPECIFICALLY CALLED FOR. WHERE REMOVAL OF EXISTING WALLS, PARTITIONS, EQUIPMENT, ETC DISTURBS EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL SERVICES, CONTRACTOR SHALL MAKE PERMANENT REVISION AS REQUIRED AND IF NECESSARY PROVIDE TEMPORARY SERVICES TO AREAS NOT SCHEDULED FOR DEMOLITION AND REMODELING. WHERE PLUMBING FIXTURES, DOORS AND OTHER ITEMS ARE REMOVED FROM WALL AND/OR RELOCATED - PATCH AND REPAIR WALLS TO MATCH EXISTING FINISH. AT WALLS THAT HAVE PAINTED GYP, PATCH, TEXTURE AND PAINT TO MATCH SURROUNDING WALL. AT AREAS THAT HAVE EXISTING TILE AND PARTITIONS OR FIXTURES ARE REMOVED - PATCH AND MATCH EXISTING TILE BY INSTALLING NEW TILE THAT MATCHES EXISTING TILE. FOR WALLS PATCH AND REPAIR TO RECEIVE NEW FINISH AS SCHEDULED. CONTRACTOR SHALL MAKE EVERY EFFORT TO KEEP ALL EXISTING FIREPROOFING ON STRUCTURE UNDISTURBED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REAPPLY FIREPROOFING THAT MAY BE REMOVED OR DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE RATED WALL ASSEMBLIES SHOWN ON PLANS AND THOSE FOUND IN THE FIELD. ALL EQUIPMENT THAT WILL NEED TO BE SALVAGED WILL BE REMOVED BY OWNER PRIOR TO DEMOLITION. CONTRACTOR SHALL HAUL OFF ALL MATERIALS UPON COMPLETION OF DEMOLITION. FIELD VERIFY MEP FIXTURES AND EQUIPMENT LOCATIONS. 	OI/24/2025 OI/24/2025 OI/24/2025 OI/24/2025 OI/24/2025 OI/24/2025 OI/24/2025 OI/24/2025
DEMOLITION RCP LEGEND	
EXISTING WALL TO REMAIN EXISTING WALL TO REMOVE EXISTING SUSPENDED ACOUSTIC CEILING TO REMOVE EXISTING 2'X4' LIGHT FIXTURE TO REMOVE EXISTING 2'X4' SUSPENDED LIGHT FIXTURE TO REMOVE	MARK DESCRIPTION
DEMOLITION RCP (XEY NOTES) NO DESCRIPTION 1 REMOVE EXISTING LIGHT FIXTURES. 2 EXISTING LIGHT FIXTURES TO REMAIN. 3 EXISTING MECHANICAL UNIT.	WORKFORCE SOLUTIONS PHASE III RENOVATION 4981 AYERS STREET 4981 AYERS STREET 60RPUS CHRISTI, TX 78415 CORPUS CHRISTI, TX 78415 CORPUS CHRISTI, TX 78415 TX 7
	JOB NO. 202415 PHASE: CONSTRUCTION DOCUMENTS ISSUE DATE: 01/24/2025 DRN. BY: KW CKD. BY: AR SHEET NUMBER D120



EXTERIOR ELEVATIONS KEY NOTES DESCRIPTION

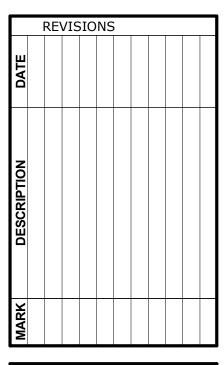
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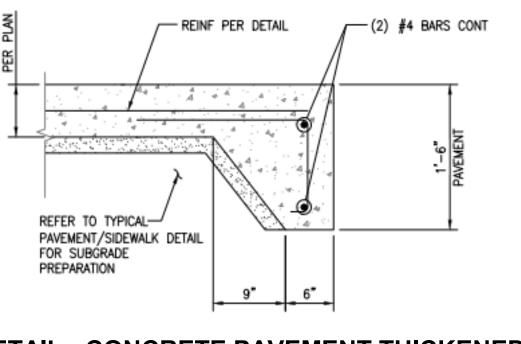
- 1 ALTERNATE 03: PROVIDE NEW 5" CONCRETE PAVEMENT. SEE A101 FOR CONSTRUCTION DETAILS. FLATWORK SHALL TIE INTO EXISTING THRESHOLD AND SLOPE AWAY FROM THE BUILDING 2% FOR WATER SHED AND IN COMPLIANCE WITH ADA REQUIRMENTS. 2 ALTERNATE 03 - PROVIDE 6' HIGH ALUMINUM NO-CLIMB PICKET/SECURITY FENCE.
- COLOR: BLACK. REFER TO ELEVATIONS FOR DETAILS. 3 ALTERNATE 03 - PROVIDE MATCHING ALUMINUM PEDESTRIAN GATE WITH PANIC EXIT DEVICE.
- 4 ALTERNATE 02 CANOPY POST. COLOR: TBD. REFER TO ELEVATIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- 5 ALTERNATE 03 PROVIDE SHADE SAIL. FABRIC COLOR: TBD. SHADE MUST BE REMOVED DURING HIGH WINDS.
- 6 ALTERNATE 03 PROVIDE POST FOR SHADE SAIL ATTACHMENT. COLOR: TBD. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION. 7 ALTERNATE 03 - TIE FENCE INTO COLUMN POSTS.
- 8 ALTERNATE 02 REPAIR ANY DAMAGE TO CONCRETE WHERE POSTS ARE INSTALLED. 9 EXTERIOR BUILDING FACADE TO RECEIVE NEW PAINT AS SCHEDULED. REFER TO EXTERIOR ELEVATIONS FOR PAINT LOCATIONS.



Corpus Christi, TX 78401-0750

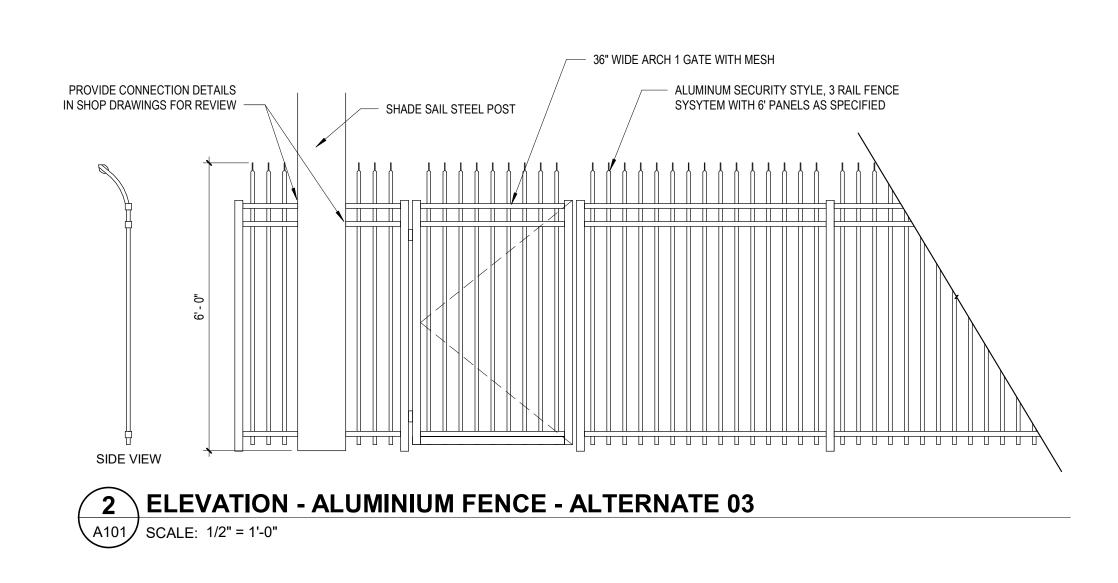


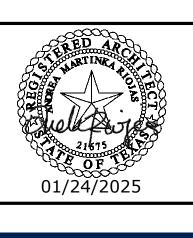
WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISTI, TX 78415	SITE PLAN	THIS IS TO GIVE NOTICE AND VERTIEY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000, www.tbaestatetx.us OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12351, AUSTIN, TEXAS / 8711-2357
JOB NO. PHASE: ISSUE DAT DRN. BY: CKD. BY:	CONSTR DOCL E: 01	JMEN ⁻ /24/20 K	DN TS
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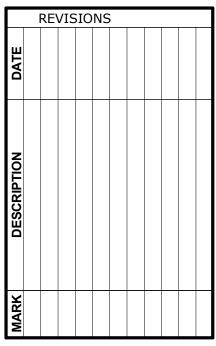


DETAIL - CONCRETE PAVEMENT THICKENED EDGE

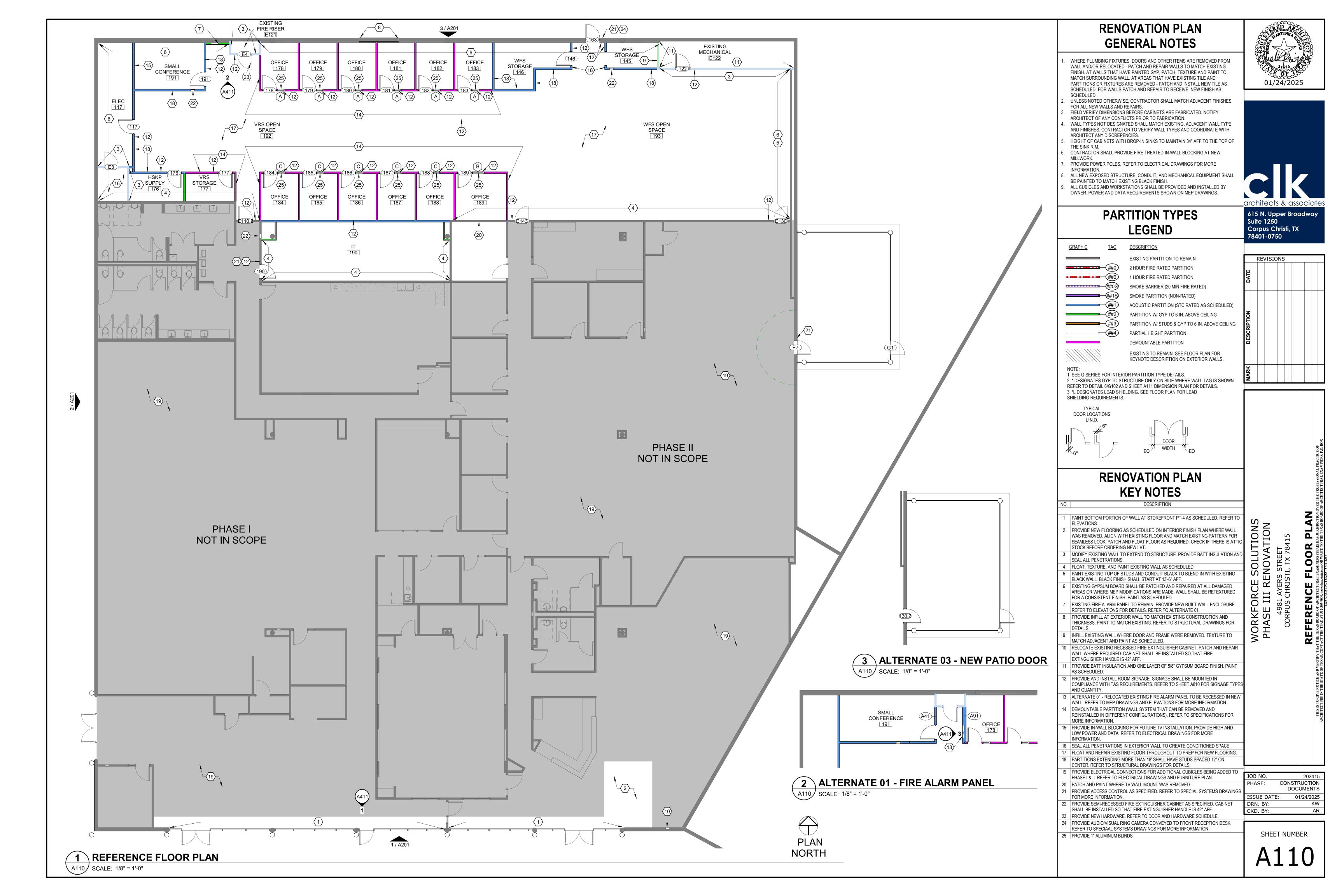




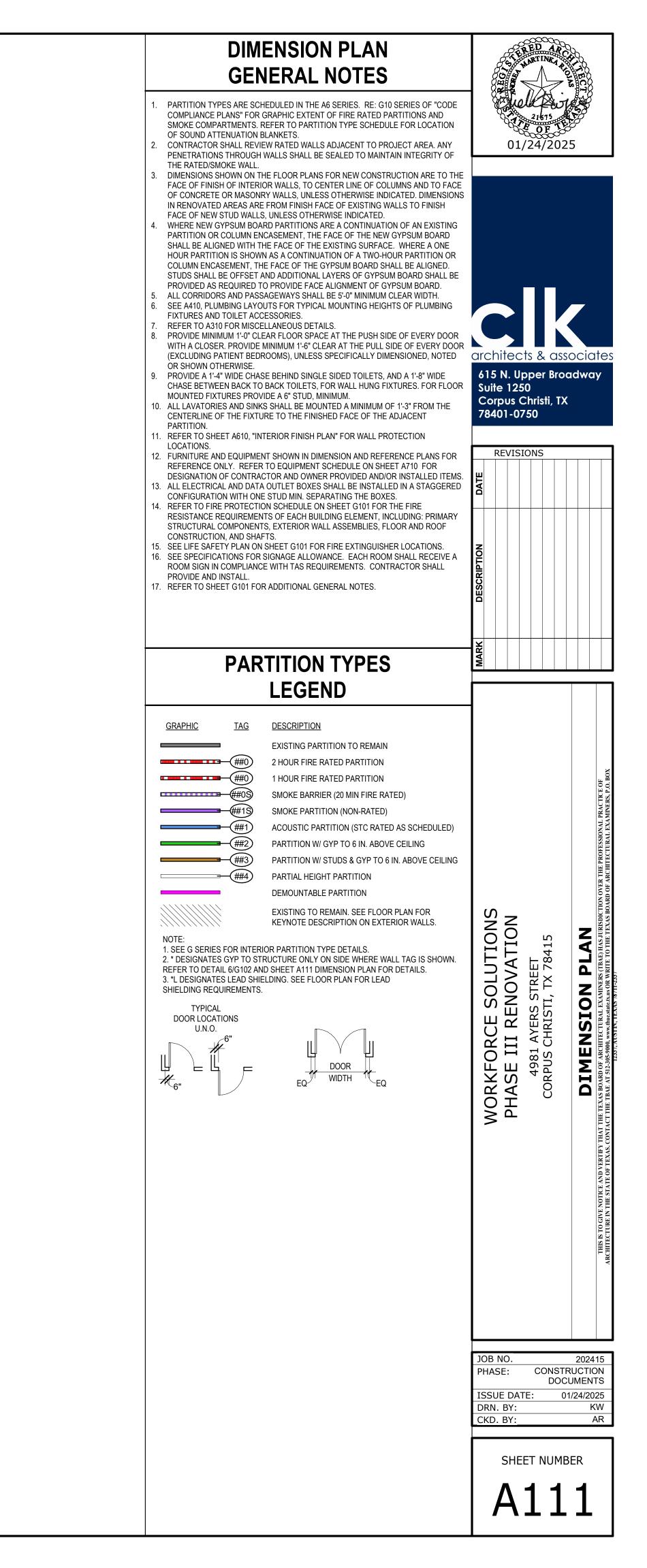




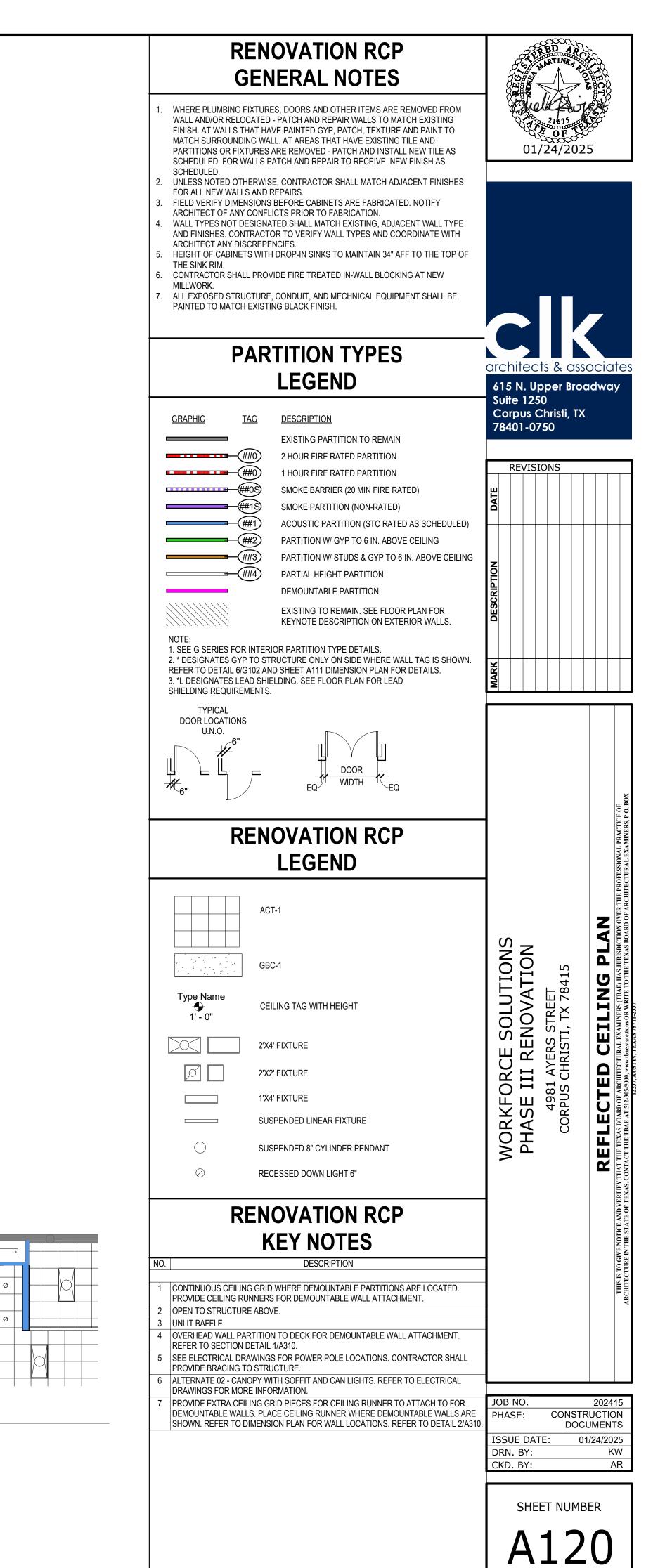
WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISTI, TX 78415	SITE PLAN - DETAILS	THIS IS TO GIVE NOTICE AND VERTIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS, CONTACT THE TBAE AT 512-305-9000, www.tbae.state.tx.us OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 1233AUXIN, TEAAN 05/11-233/
JOB NO. PHASE:	CONSTR		ON
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			AR

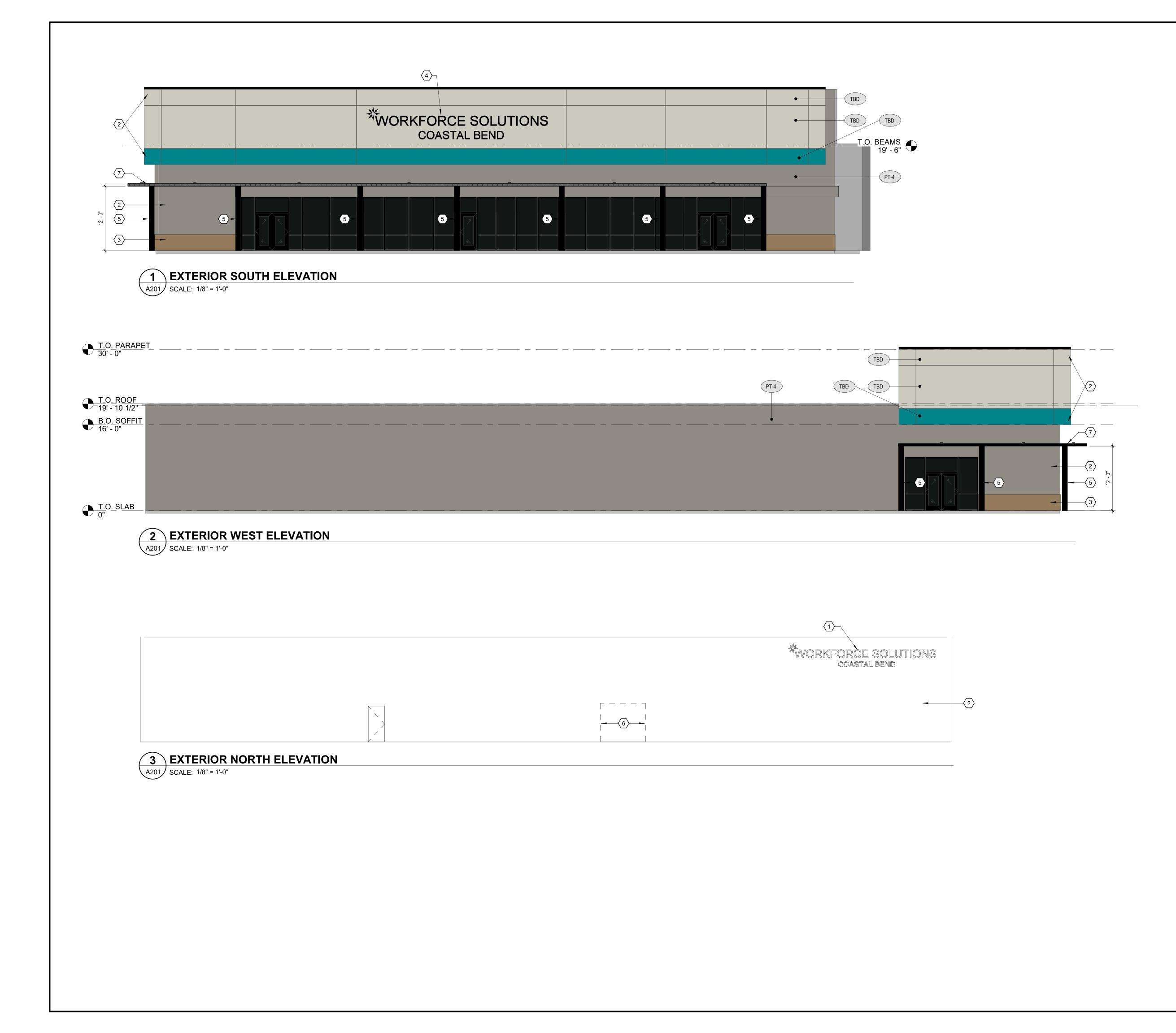












EXTERIOR ELEVATIONS KEY NOTES DESCRIPTION

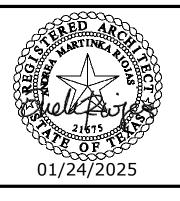
 PROVIDE SIGN WITH FABRICATED ALUMINUM FACE LIT LETTERS AND GRAPHIC. LETTERS SHALL BE 18" AND 12" HIGH RESPECTIVELY. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. REPAIR EXISTING EIFS FINISH DUE TO ATTACHMENT OF NEW SIGN. MATCH EXISTING FINISH AND COLOR. SIGN MUST MEET WINDSTORM REQUIREMENTS, TDI 160 MPH WIND SPEED. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
 EXTERIOR BUILDING FACADE TO RECEIVE NEW PAINT AS SCHEDULED.
 EXISTING TILE TO REMAIN.
 PROVIDE LED ILLUMINATED SIGN WITH FABRICATED ALUMINUM FACE LET LETTERS AND GRAPHIC. LETTERS SHALL BE 22" AND 18" HIGH RESPECTIVELY. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. REPAIR EXISTING EIFS FINISH DUE TO ATTACHMENT OF NEW SIGN. MATCH EXISTING FINISH AND PAINT AS SCHEDULED.
 SIGN MUST MEET WINDSTORM REQUIREMENTS, TDI 160 MPH WIND SPEED. REFER TO

 STRUCTURAL DRAWINGS FOR DETAILS.

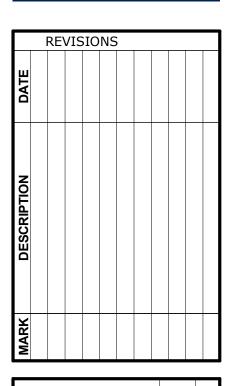
 PAINTED COLUMN. COLOR: TBD. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

 PROVIDE INFILL AT EXTERIOR WALL TO MATCH EXISTING CONSTRUCTION AND THICKNESS. PAINT TO MATCH EXISTING.

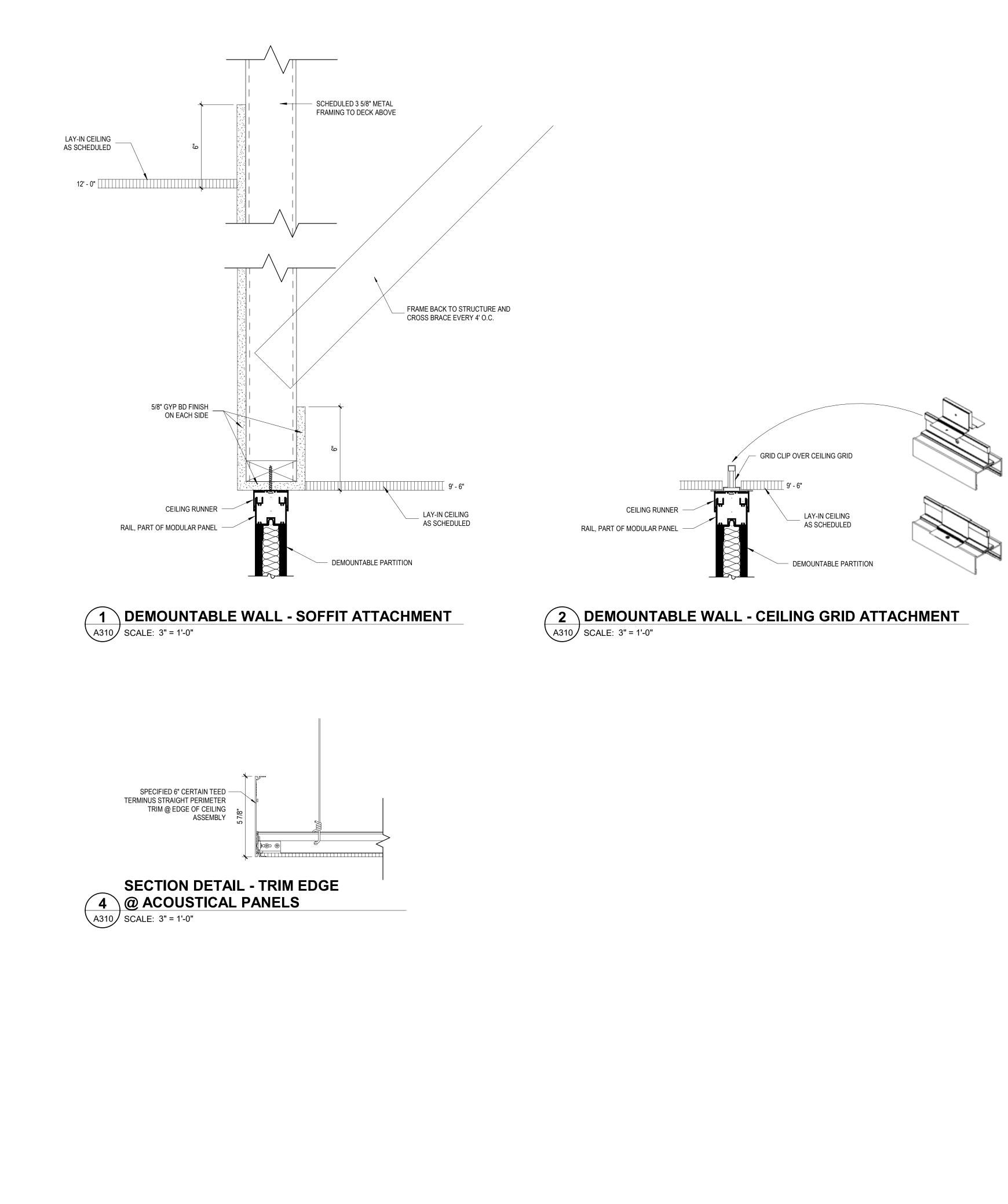
ALTERNATE 02 - METAL CANOPY WITH SOFFIT AND CAN LIGHTS AS SPECIFIED. COLOR: TBD. REFER TO STRUCTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

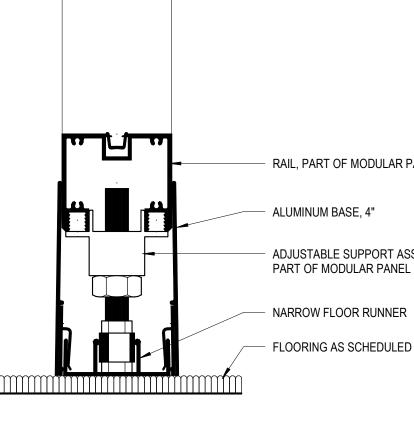




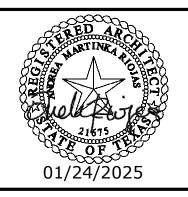


WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISTI, TX 78415	EXTERIOR BUILDING ELEVATIONS THIS IS TO GIVE NOTICE AND VERTEY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TEAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000, www.theestatechans.or writte to the TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX
JOB NO. PHASE: ISSUE DAT DRN. BY: CKD. BY:		202415 UCTION JMENTS /24/2025 KW AR
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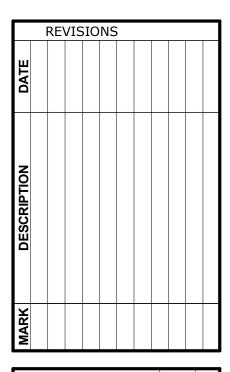










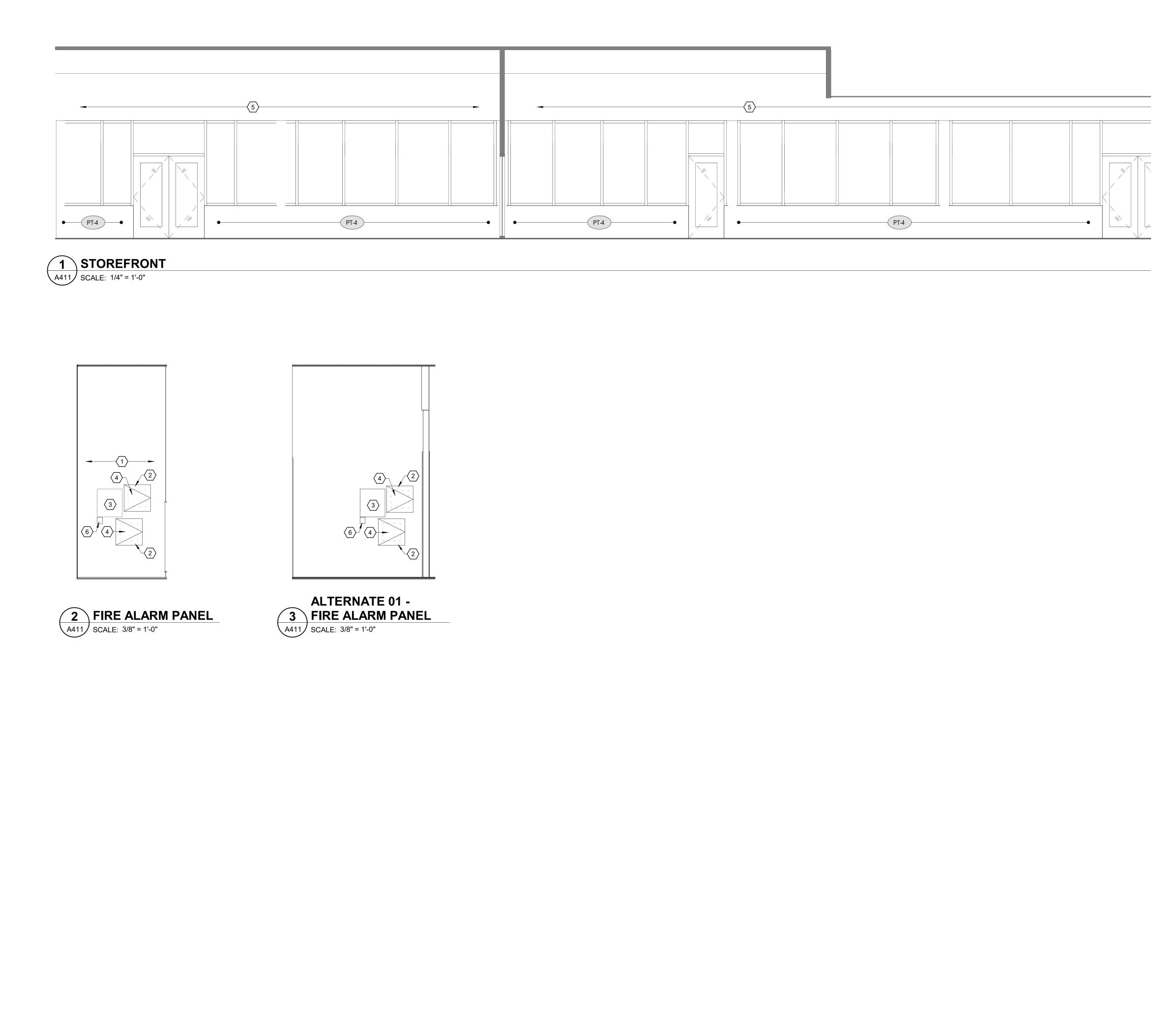


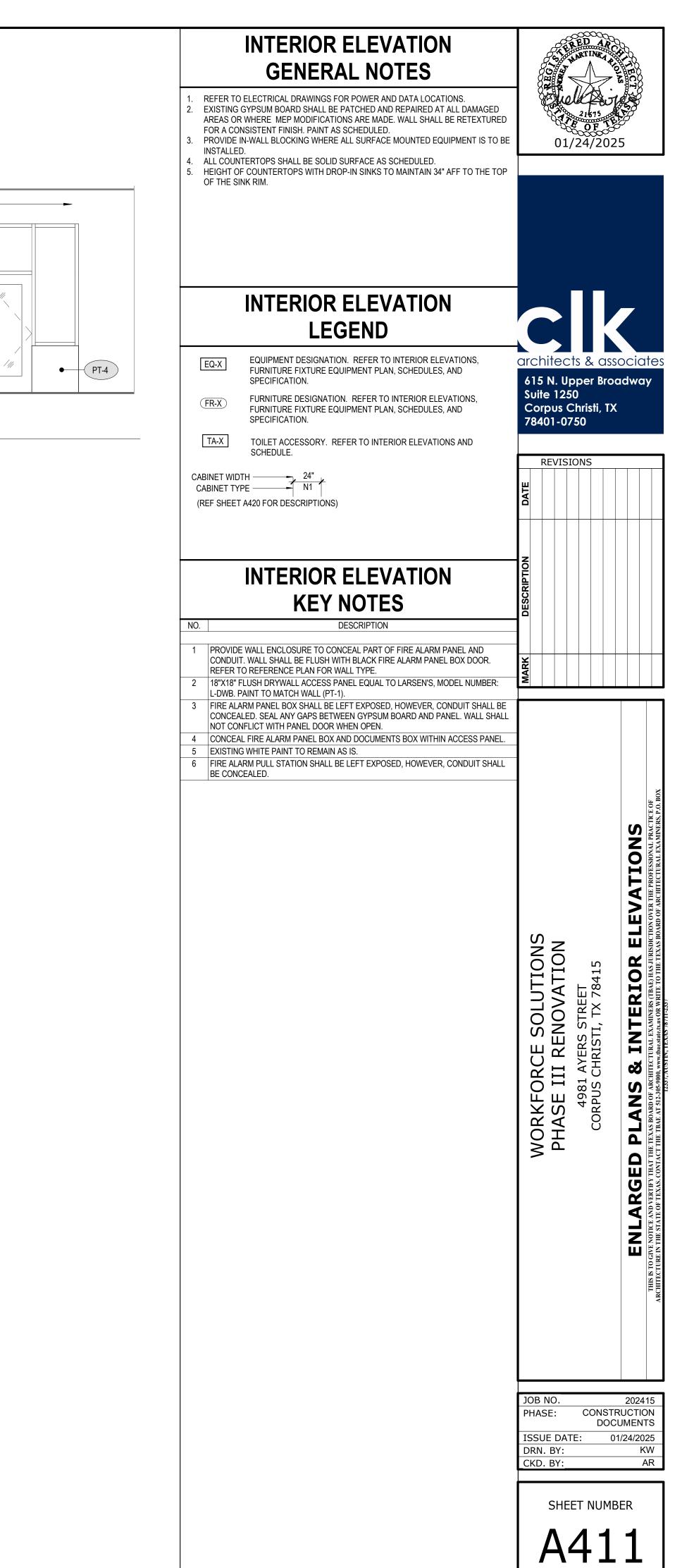
WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISTI, TX 78415	DETAILS	THIS IS TO GIVE NOTICE AND VERTIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000, www.dbaestate.kus OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12357-AUSHIX-LEAAS AS/11-2357
JOB NO. PHASE: ISSUE DAT DRN. BY: CKD. BY:		JMEN /24/20: K	DN FS
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- RAIL, PART OF MODULAR PANEL

ADJUSTABLE SUPPORT ASSEMBLY, 4"
 PART OF MODULAR PANEL

- FLOORING AS SCHEDULED

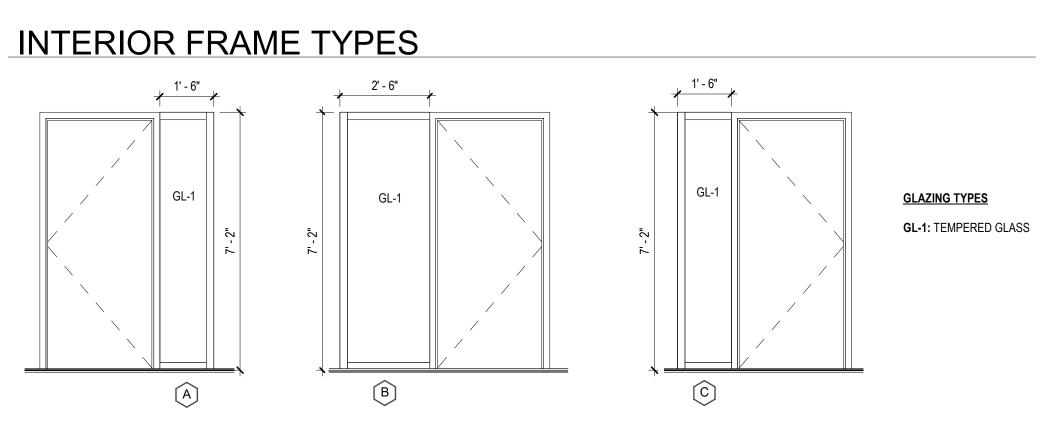




	DOOR SCHEDULE																	
	DO	OR			PANEL				FRAME				FROM		то			
NO.	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FINISH	TYPE	OVERALL DEPTH	MULLION	MATERIAL	FINISH	HWD SET	FIRE RATING	NO.	NAME	NO.	NAME	COMMENTS
117	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03		192	VRS OPEN SPACE	117	ELEC	
122	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03		193	WFS OPEN SPACE	E122	EXISTING MECHANICAL	
130.2	3' - 0"	7' - 0"	1 3/4"	FS	HM	SEE COMMENTS	EXIST.	8"		HM - ETR	SEE COMMENTS	01						ALTERNATE 03. NEW INTERIOR DOOR PANEL PAINTED PT-6, EXTERIOR DOOR PANEL TBD. NEW INTERIOR FRAME PAINTED PT-5, EXTERIOR FRAME TBD. CARD READER.
146	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03		193	WFS OPEN SPACE	146	WFS STORAGE	
163	3' - 0"	6' - 8"	1 3/4"	FS	ETR	SEE COMMENTS	EXIST.	8"		HM - ETR	SEE COMMENTS	05		193	WFS OPEN SPACE			INTERIOR DOOR PANEL PAINTED PT-6, EXTERIOR DOOR PANEL ETR. INTERIOR FRAME PAINTED PT-5, EXTERIOR FRAME ETR. CARD READER. AUDIO/VISUAL RING CAMERA.
176	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03		192	VRS OPEN SPACE	176	HSKP SUPPLY	
190	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	06				190	IT	CARD READER.
191	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		192	VRS OPEN SPACE	191	SMALL CONFERENCE	
E3	3' - 0"	6' - 8"	1 3/4"	FS	ETR	PT-6	EXIST.	5 7/8"		HM - ETR	PT-5	ETR		117	ELEC	117	ELEC	
E4	3' - 0"	6' - 8"	1 3/4"	FS	ETR	PT-6	EXIST.	5 7/8"		HM - ETR	PT-5	08		E121	EXISTING FIRE RISER	192	VRS OPEN SPACE	
E7	3' - 0"	7' - 0"	1 3/4"	FS	ETR	PT-6	EXIST.	8"		HM - ETR	PT-5	ETR						
E110.2	3' - 0"	7' - 0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		ETR	ETR	07				192	VRS OPEN SPACE	
E130	3' - 0"	7' - 0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		ETR	ETR	07				193	WFS OPEN SPACE	
E143	3' - 0"	7' - 0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		ETR	ETR	07				193	WFS OPEN SPACE	

THE FOLLOWING DOORS AND FRAMES ARE PART OF THE DEMOUNTABLE WALL SYSTEM

	DO	OR		I	PANEL				FRAME						FROM		то	
NO.	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FINISH	TYPE	OVERALL DEPTH	MULLION	MATERIAL	FINISH	HWD SET	FIRE RATING	NO.	NAME	NO.	NAME	COMMENTS
177	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	03		192	VRS OPEN SPACE	177	VRS STORAGE	DEMOUNTABLE
178	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		192	VRS OPEN SPACE	178	OFFICE	DEMOUNTABLE
179	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"	-	ALUM	BLACK	02		192	VRS OPEN SPACE	179	OFFICE	DEMOUNTABLE
180	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		192	VRS OPEN SPACE	180	OFFICE	DEMOUNTABLE
181	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"	-	ALUM	BLACK	02		193	WFS OPEN SPACE	181	OFFICE	DEMOUNTABLE
182	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		193	WFS OPEN SPACE	182	OFFICE	DEMOUNTABLE
183	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		193	WFS OPEN SPACE	183	OFFICE	DEMOUNTABLE
184	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		192	VRS OPEN SPACE	184	OFFICE	DEMOUNTABLE
185	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		192	VRS OPEN SPACE	185	OFFICE	DEMOUNTABLE
186	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		192	VRS OPEN SPACE	186	OFFICE	DEMOUNTABLE
187	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		193	WFS OPEN SPACE	187	OFFICE	DEMOUNTABLE
188	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		193	WFS OPEN SPACE	188	OFFICE	DEMOUNTABLE
189	3' - 0"	7' - 0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02		193	WFS OPEN SPACE	189	OFFICE	DEMOUNTABLE



THE FOLLOWING DOORS, FRAMES, AND GLASS ARE PART OF THE DEMOUNTABLE WALL SYSTEM

DOOR HARDWARE SCHEDULE SEE SPECIFICATIONS 08 71 00 FOR DETAILS

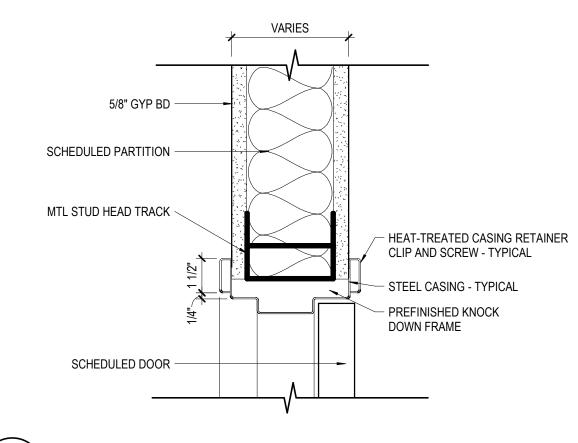
SET 01: HINGE, RIM EXIT DEVICE, ELECTRIC STRIKE, POWER SUPPLY, SURFACE CLOSER, THRESHOLD, GASKETING, RAIN GUARD, SWEEP. CARD READER BY OTHERS. ALTERNATE 03 SET 02: HINGE, OFFICE LOCKSET, WALL STOP, SILENCER

SET 03: HINGE, STORAGE LOCKSET, WALL STOP, SILENCERS SET 04: HINGE, CLASSROOM SET, WALL STOP, SILENCERS

SET 05: HINGE, RIM EXIT DEVICE, ELECTRIC STRIKE, POWER SUPPLY, CLOSER, THRESHOLD, GASKETING, RAIN GUARD, SWEEP. CARD READER, AUDIO/VISUAL AND RECEIVER BY OTHERS. SET 06: HINGE, STORAGE LOCKSET, ELECTRIC STRIKE, POWER SUPPLY, CLOSER, SILENCER, WALL STOP. CARD READER BY OTHERS.

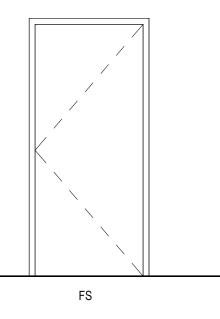
SET 07: PASSAGE SET SET 08: PASSAGE SET, SURFACE CLOSER, WALL STOP, SILENCERS

NOTE: CARD READER HARDWARE AND ACCESS CONTROL INTEGRATION BY OTHERS.

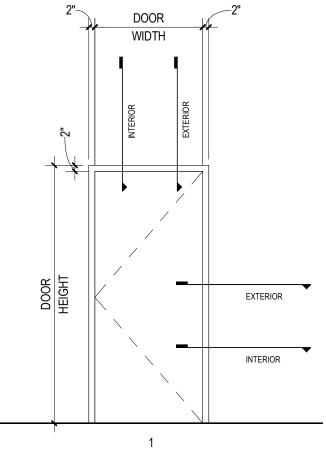


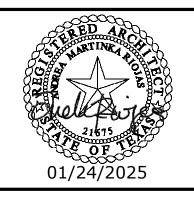


DOOR PANEL TYPES

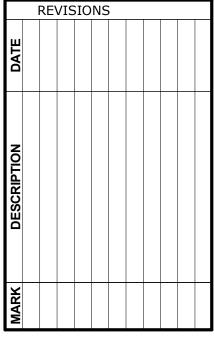


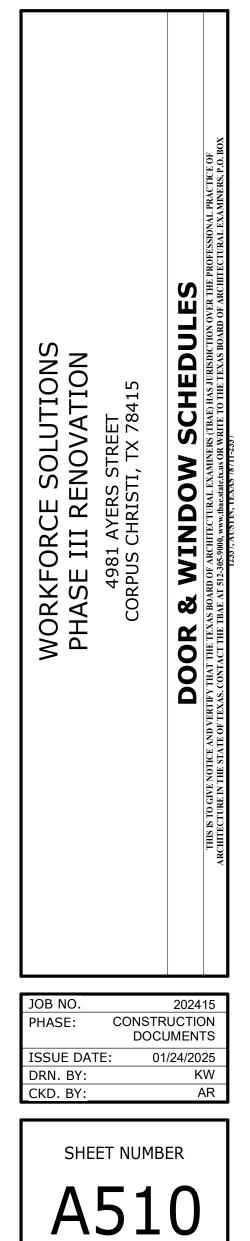


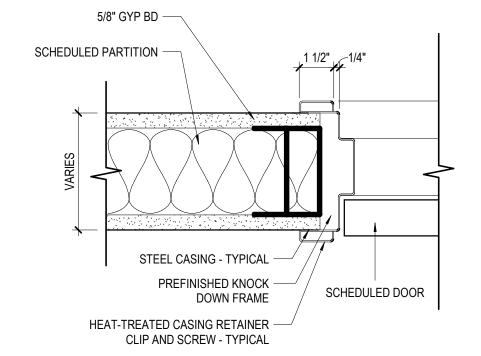






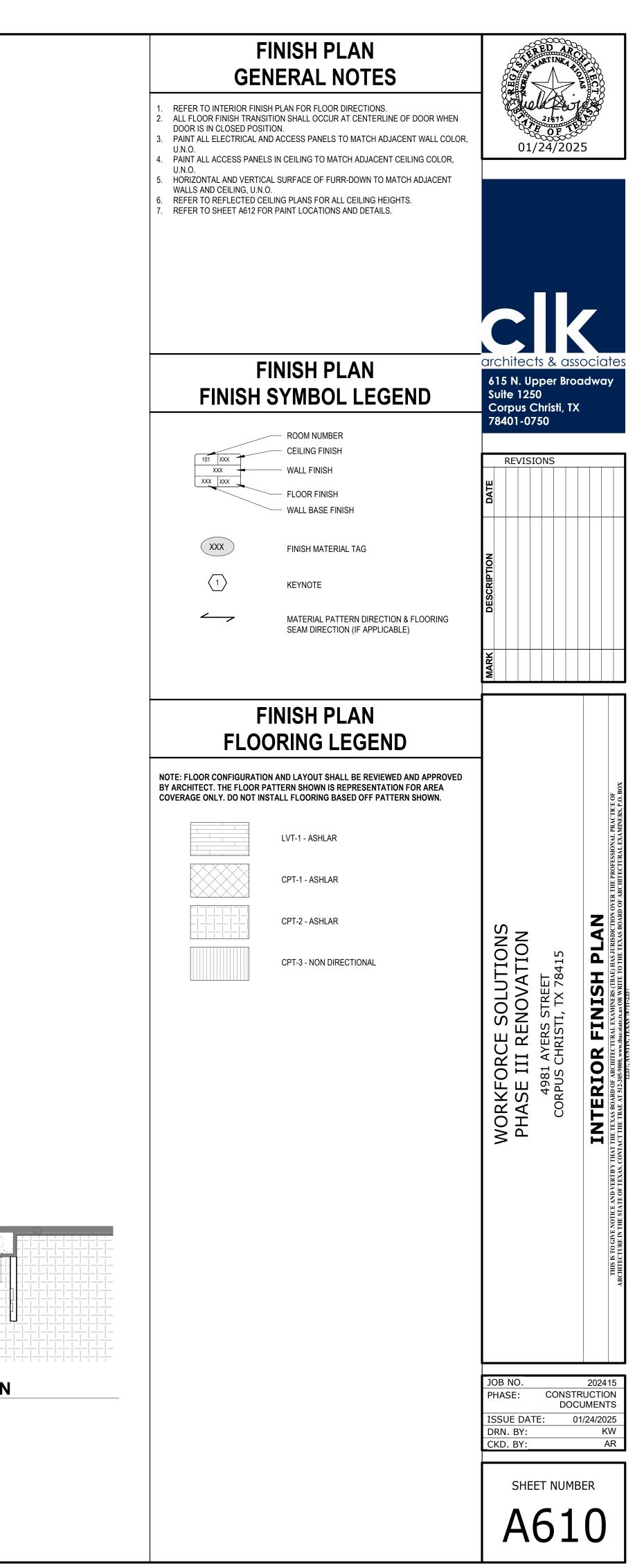


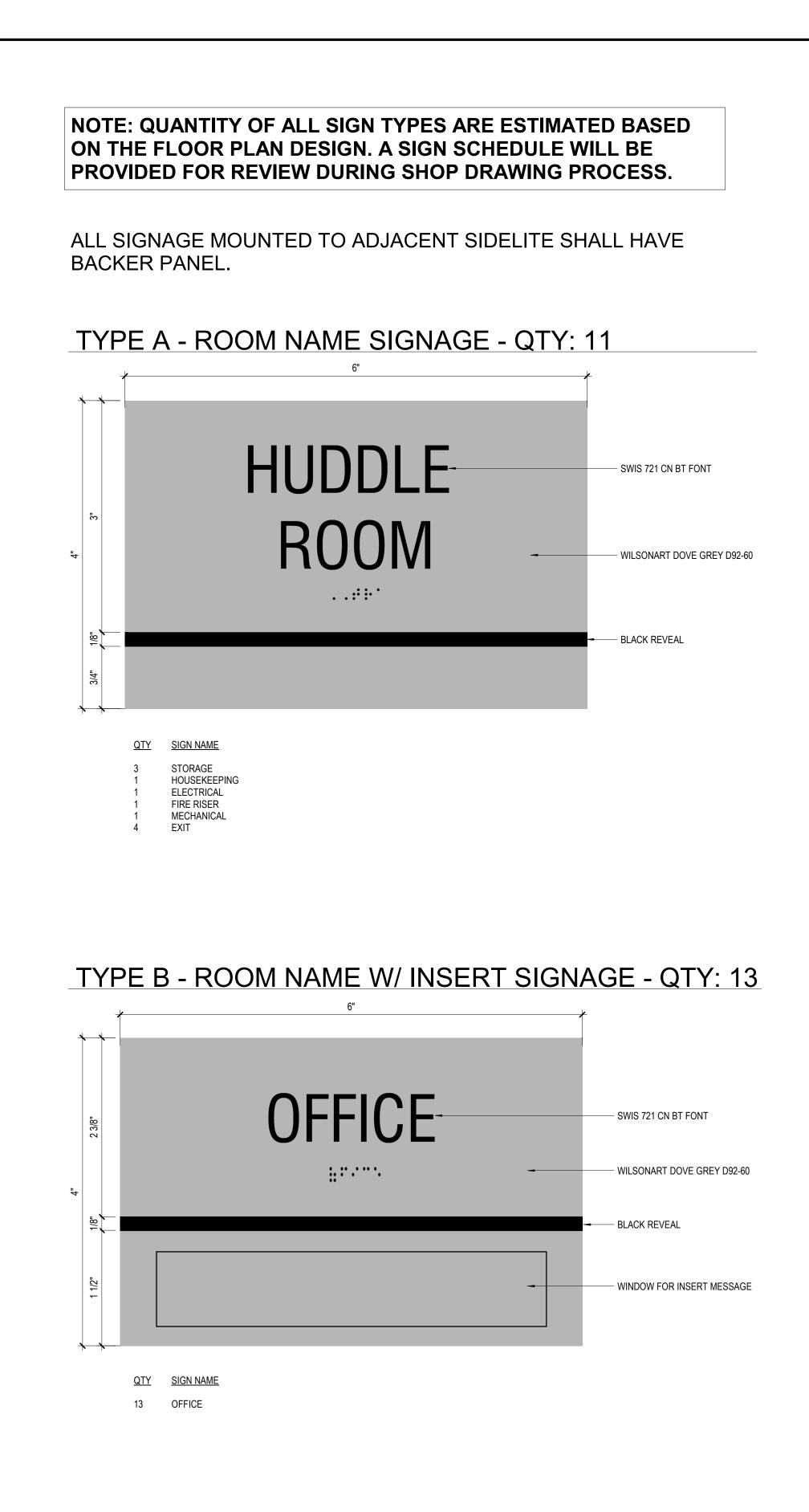












ROOM FINISH SCHEDULE

	NAME			NODTU		ГАСТ	WEOT				COMMENTS
NUMBER	NAME	BASE FINISH	FLOOR FINISH	NORTH	SOUTH	EAST	WEST	CEILING FINISH	CEILING HEIGHT	AREA	COMMENTS
117	ELEC	RB-1	N/A	PT-1	PT-1	PT-1	PT-1	N/A	-	223 SF	
137	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	147 SF	
145	WFS STORAGE	RB-1	LVT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-0"	58 SF	
146	WFS STORAGE	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-0"	126 SF	
176	HSKP SUPPLY	RB-1	LVT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-0"	69 SF	
177	VRS STORAGE	RB-1	CPT-2	-	PT-1	-	PT-1	ACT-1	9'-0"	63 SF	
178	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
179	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
180	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
181	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
182	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
183	OFFICE	RB-1	CPT-2	PT-1	-	PT-1	-	ACT-1	9'-6"	80 SF	
184	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
185	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
186	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
187	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
188	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
189	OFFICE	RB-1	CPT-2	-	PT-1	ETR	-	ACT-1	9'-6"	109 SF	
190	IT	RB-1	LVT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-0"	490 SF	
191	SMALL CONFERENCE	RB-1	CPT-3	PT-1	PT-1	PT-1	PT-4	ACT-1	9'-6"	148 SF	
192	VRS OPEN SPACE	RB-1	CPT-2	PAINT	PAINT	PAINT	PAINT	ACT-1	12'-0"	1009 SF	REFER TO FINISH PLAN FOR PAINT LOCATIONS.
193	WFS OPEN SPACE	RB-1	CPT-1,2	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	2495 SF	REFER TO FINISH PLAN FOR PAINT LOCATIONS. REFER TO RCP FOR CEILING HEIGHTS.
E121	EXISTING FIRE RISER	RB-1	N/A	-	-	-	-	N/A	-	15 SF	
E122	EXISTING MECHANICAL	RB-1	N/A	PT-1	PT-1	PT-1	PT-1	N/A	-	165 SF	

FINISH LEGEND

FLOORING

LUXUR	Y VINYL TILE
LVT-1	MANUF: INTERFACE SERIES: STEADY STRIDE COLOR: BARLEY B00107 SIZE: 3MM THICK, 5"X39" INSTALLATION: ASHLAR

CARPET TILE

CPT-1	MANUF: INTERFACE
	SERIES: OPEN AIR, 408
	COLOR: NATURAL 106943
	SIZE: 10"X39"
	INSTALLATION: ASHLAR

- CPT-2 MANUF: INTERFACE SERIES: OPEN AIR, 410 COLOR: CHARCOAL 106969 SIZE: 10"X39" INSTALLATION: ASHLAR
- CPT-3 MANUF: INTERFACE SERIES: OPEN AIR, 403 COLOR: NATURAL 106731 SIZE: 24"X24" INSTALLATION: NON DIRECTIONAL

BASE

RUBBER BASE

RB-1 MANUF: ROPPE COLOR: LUNAR DUST TYPE: COVE TOE SIZE: 4" HIGH

WAL	L	<u>CEILI</u>
PAIN	Т	ACOU
PT-1	MANUF: SHERWIN WILLIAMS COLOR: GREEK VILLA SW 7551 FIELD COLOR	ACT-1
PT-2	MANUF: SHERWIN WILLIAMS COLOR: HIGH REFLECTIVE WHITE SW 7757 GYPSUM BOARD CEILING COLOR	MILLV
PT-3		SOLIE
	COLOR: SALTY DOG SW 9177 ACCENT COLOR	SS-1
PT-4	MANUF: SHERWIN WILLIAMS COLOR: GAUNTLET GRAY SW 7019 ACCENT COLOR	
PT-5	MANUF: SHERWIN WILLIAMS	PLAS
	COLOR: BLACK MAGIC SW 6991 EXISTING DOOR FRAME COLOR	PLAM
PT-6	MANUF: SHERWIN WILLIAMS COLOR: GAUNTLET GRAY SW 7019 EXISTING DOOR PANEL COLOR	
WAL	L PROTECTION	<u>TRAN</u>
COR	NER GUARD	TR-1
CG-1	MANUF: INPRO SERIES: 160BN BLUNOSE	

SERIES: 160BN BLUNOSE COLOR: WHITE SAND 0103 SIZE: 4' HIGH

END WALL

EW-1 MANUF: INPRO SERIES: 160DBN BLUNOSE COLOR: WHITE SAND 0103 SIZE: 4' HIGH



OUSTICAL CEILING TILE

- CT-1 MANUF: CERTAINTEED
- SERIES: SYMPHONY F, TRIM COLOR: WHITE
- SIZE: 24"X24", 15/16" EXPOSED TEE GRID THICKNESS: 5/8"

LWORK

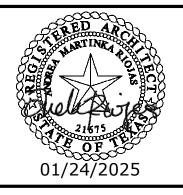
- ID SURFACE
- MANUF: CORIAN COLOR: DOVE
- THICKNESS: 1/2" LOCATION: COUNTERTOPS

STIC LAMINATE

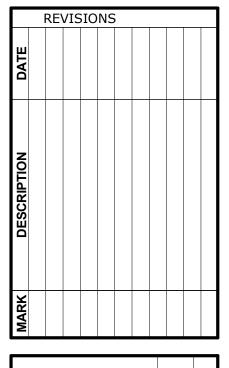
M-1 MANUF: FORMICA COLOR: PECAN WOODLINE 5883-58 FINISH: MATTE INSTALLATION: VERTICAL GRAIN LOCATION: DOORS

NSITION TRIM

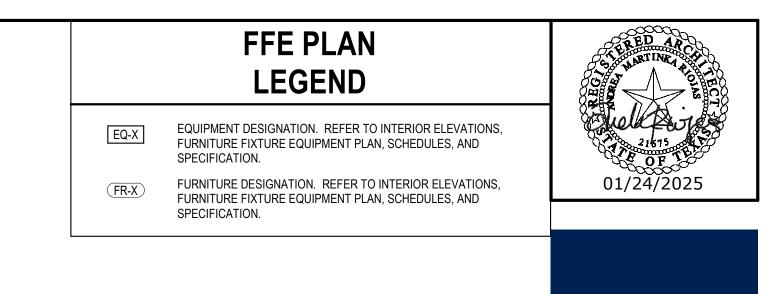
MANUF: ROPPE TYPE: ADAPTER COLOR: LUNAR DUST



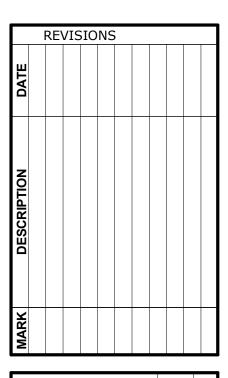


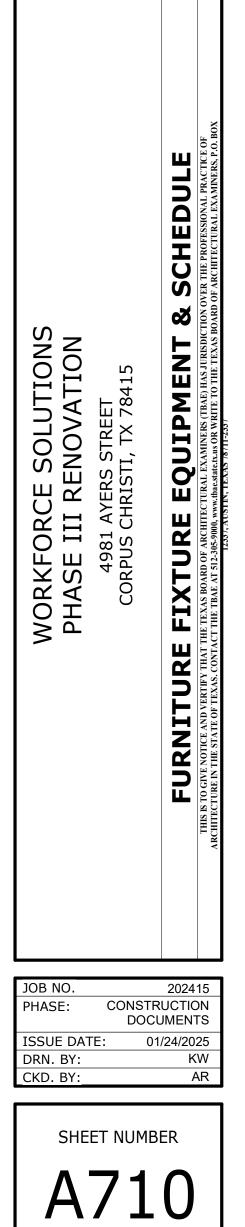












FURNITURE SCHEDULE	
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DEL	COMMENTS	OWNER PROVIDED	OWNER INSTALLED	COUNT
	GLOBAL INDUSTRIAL, URBAN 6' PLASTIC PICNIC TABLE & BENCH SET, TAN, MODEL: WB348137	Yes	Yes	2
	ALUMINUM RECTANGULAR PLANTER, CUSTOM COLOR POWDER COATED, SIZE TBD	Yes	Yes	3
	GLOBAL INDUSTRIAL, RUBBERMAID SMOKERS POLE, BLACK 4" DIA., MODEL: WBB53493	Yes	Yes	1
	GLOBAL INDUSTRIAL, OUTDOOR SLATTED STEEL TRASH CAN WITH FLAT LID, 36 GALLON, BLACK, MODEL: WB237726BK	Yes	Yes	1
	5' HIGH, 24" DEEP, LOCKABLE	Yes	Yes	2
	72" W X 24" D	Yes	Yes	2
	60" W X 30" D	Yes	Yes	2
	48" W X 24" D	Yes	Yes	2
S	48" W X 24" D	Yes	Yes	7



I. COORDINATION

- A. It is the responsibility of the General Contractor to obtain all Contract Documents and Addenda and to submit such documents to all subcontractors and material suppliers prior to the submittal of shop drawings, fabrication of any structural members, and construction.
- B. The General Contractor shall compare the Architectural, Structural Mechanical, Electrical, Plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.
- C. Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.
- D. The details designated as "Typical Details" apply generally to the Drawings in all areas where conditions are similar to those described in the details.
- E. All structural elements of the project have been designed by the Structural Engineer to resist the required code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together.
- F. Lateral-Force Resisting System: Is existing and has not been modified or added to.
- G. The Contract Structural Drawings and Specifications represent the finished structure, and except where specifically shown, do not indicate the means or methods of construction. The Contractor and their Sub-Contractors shall supervise and direct the Work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all OSHA guidelines. The Engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the Work, for the acts or omissions of the Contractor, Subcontractors, or any other person performing any of the Work, or for the failure of any of these persons to carry out the Work in accordance with the Contract Documents.
- H. Where conflict exists among the various parts of the structural contract documents, structural drawings, general notes, and specifications, the strictest requirements, as indicated by the Engineer, shall govern.
- I. Periodic site observation by field representatives of Garza + McLain Structural Engineers, Inc. is solely for the purpose of determining if the Work is proceeding in accordance with the Structural Contract Documents. This limited site observation is not intended to be a check of the quality or quantity of the Work, but rather a periodic check in an effort to inform the Owner against defects and deficiencies in the work of the Contractor.

II. SUBSTITUTIONS

All requests for substitutions of materials or details shown in the contract documents shall be submitted for approval during the bidding period. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings to be deducted from the contract and/or schedule impact and the material or product has been approved by the International Code Council Evaluation Service (ICCES), TDI, or Florida Building Code, and all reports from agencies noted above are included in the request. Submittals not satifying the above criteria will not be considered.

III. MAINTENANCE STATEMENT

- A. All structures require periodic maintenance to extend life span and to insure structural integrity from exposure to the environment. A planned program of maintenance shall be established by the building owner. This program shall include such items as but not limited to painting of structural steel, protective coating for concrete, sealants, caulked joints, expansion joints, control joints, spalls and cracks in concrete, and pressure washing of exposed structural elements exposed to a salt environment or other harsh chemicals
- B. Site Drainage: it is recommended that the site drainage be well developed surface water should be directed away from the foundation soils. (Use a minimum slope of 5% within 10 feet of the foundation). No ponding of surface water shall be allowed near the structure during or after completion of the construction & the landscaping. The Contractor shall advise the owner of the site drainage requirements. The Engineer is not liable for foundation issues if the site is not maintained.

IV. <u>CODES</u>

- A. The General Building Code used as the basis for the structural design is as follows:
- 1. International Building Code, 2018 Edition with the Texas Windstorm Adopted Amendments
- 2. International Building Code, 2021 Edition with the City of Corpus Christi Adopted Amendments.
- B. Structural Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318.
- C. Structural Steel: Manual of Steel Construction, American Institute of Steel
- D. Light Guage Steel: Specification for the design of cold formed steel structural

members, American Iron and Steel Institute, latest edition.

V. DESIGN LOADS

Construction, Latest Edition.

A. Design Loads include the self weight of the structural elements and the following superimposed loads:

1. Collateral	2 psf	
B. Live Loads:		
OCCUPANCY OR USE	UNIFORM	CONCENTRATED
1. Level 1	100	

2. Roof (unreduced) C. Wind Loads:

Wind lateral load on structural frame is based on ASCE 7 using the following:

D. Texas Architecture Barrier Act Standard. The structural strength of grab bars, tub and shower seats, fasteners, and mounting devices shall meet the following specifications:

1. Bending stress in a grab bar or seat induced by the maximum bending moment from the application

20

- of 250 lbf shall be less than the allowable stress for the material of the grab bar or seat. 2. Shear stress induced in a grab bar or seat by the application of 250 lbf shall be less than the allowable shear stress for the material of the grab bar or seat. If the connection between the grab
- bar or seat and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress. 3. Shear force induced in a fastener or mounting device from the application of 250 lbf shall be less
- than the allowable lateral load of either the fastener or the mounting device or the supporting structure, whichever is the smaller allowable load. 4. Tensile force induced by a fastener by a direct tension force of 250 lbf plus the maximum moment
- from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure. 5. Grab bars shall not rotate within their fittings.

E. Handrails and Guardrails: Handrails and guardrails shall be designed for 50 pound/ft applied horizontally at right angles to the top rail as wel as a 200 pound concentrated load applied in any direction at any point along the top rail. The railing shall have attachment devices to adequately anchor to the supporting structure. Intermediate rails (all except handrails), balusters, and panels fillers shall be capable of sustaining a horizontally applied 50 lb normal load on an area not to exceed one square foot including openings and spce in between rails.

- VI. SUBMITTALS
- clouded
- date. Submittals which do not reflect the contractor's approval, signature and date will be returned without review.
- other contractors.
- method of transmission

F. Shop Drawings:

- a. Reinforcing Steel
- b. Miscellaneous Steel d. Embedded Items (Plates, Angles, Bolts, etc) or items attache to the
- other items. (#)
- e. Concrete Mix Designs f. Structural steel
- g. Cold-Formed Metal Framing Members and Connection Material. h. CU curb and CU

Items marked (*) shall be designed by an engineer and drawings shall be sealed by a registered engineer in the state where the project is located. Items marked (#) shall be submitted to Engineer for Owner's record only and will not have the Engineer's shop drawing stamp affixed.

2. The omission from the shop drawings of any material required by the Contract Documents to be furnished shall not relieve the Contractor of the responsibility of furnishing and installing such materials, regardless of whether the shop drawings have been reviewed and approved.

VII. TESTING LABORATORY SERVICES

A. Work specified herein shall be performed by a qualified Independent Testing Laboratory, selected and paid by the Owner. The Contractor shall be responsible for notifying the Independent Testing Laboratory at least 24 hours of advance of materials that require testing. The contractor shall pay for all retests of materials not meeting the requirements in the Contract Documents. Reports of each Test shall be prepared by the Independent Testing Laboratory and submitted promptly to the Owner, Contractor, Architect, and Engineer. Items found not to comply with the Construction Documents shall be brought to the immediate attention of the Contractor and Architect/ Engineer for resolution.

- B. Filling and Backfilling operation:
- graduation and quality requirements of the geotechnical report.
- 3. Verify Compaction of utility trenches.
- C. Concrete inspection and testing:
- specimens in accordance with ASTM C39 for each pour of concrete.
- strength is low.)
- hold one for 56 days (test only if 28 day strength is low.) 5. Make one slump test for each set of cylinders following the procedural requirements of the contractor for correction, and if uncorrected, reported to the engineer.
- D. Concrete Reinforcement: Inspect all concrete reinforcing steel and embedded metal
- according to the City to perform the special inspections for which they will be reports to the Registered Design Professional (RDPiRC) in Responsible Charge for all time other listed in these Structural Notes or Project Specifications.

VIII. CAST IN PLACE CONCRETE

A. Classes of Concrete:

Concrete Mix Schedule:

otherwise on the drawings:

Conc. Strength Agg. Туре Class psi

A	3000	NWI	
a) "NWT	" refers to no	rmal concrete ha	avi
		ately 145 PCF (/	
b) Where	w/c ratio is r	not indicated in t	he
0 - 1 1	I		L

- Schedule, it shall be as necessary to meet strength requirements c) Where the w/c ratio is shown, it shall be adhered to
- regardless of strength requirements. d) "Strength" is required compressive cylinder strength
- at an age of 28 days. Mix Usage Schedule

Description of Use	Concrete Class	Air Content	
Piers Site Work Concrete	A A		

- ASTM C157
- C. Horizontal construction joints in concrete pours shall be permitted only where indicated on the drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on drawings for review by contractor at no additional cost to the owner.

<u>S</u>	Т	R	U	С	Т	U	R	Α	L	G	Ε	Ν	Ε	R	Α	L	Ν	0	Т	Е	S	

A. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Contract Drawings shall not be reproduced and used as shop drawings. All items deviating from the Contract Drawings or from previously submitted shop drawings shall be

B. The contractor shall review shop drawings for compliance with the contract documents and shall certify that he has done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative of the contractor and the

C. Where review and return of shop drawings is required or requested, the engineer will review each submittal and, where possible, return within two weeks of receipt.

D. Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the contractor from compliance with requirements of the plans and specifications. The engineer's review is for general conformance with the requirements of the contract documents. The contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating his work with that of all

E. General Contractor shall submit electronic copies of all submttals using a mutually agreeable

1. The General Contractor shall submit for Engineer review shop drawings for the following

structural frame for building cladding attachment or for attachment of

1. Analyze backfill samples delivered by the contractor to determine compliance with 2. Make in place compaction tests for moisture content, moisture density relationship, and density of materials in place. Perform one test for each 5000 square feet of area per lift.

1. Secure composite samples of concrete at the jobsite in accordance with ASTM C172. 2. Mold and cure for specimens from each sample in accordance with ASTM C31. Test 3. Test one cylinder @ 7 days, 2 @ 28 days, and hold one for 56 days (test only if 28 day

4. Perform one strength test (four cylinders) for each 50 cubic yards of fraction thereof, of each mix design placed in the day. Test one cylinder @ 7 days, 2 @ 28 days, and

assemblies prior to placement of concrete for compliance with Contract Documents and shop drawings. All instances of non-compliance shall be immediately brought to the attention of the contractor for correction, and if uncorrected, reported to the engineer.

E. Special Inspections: Special Inspections shall be performed in accordance with Chapter 17 of the 2021 IBC by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency

undertaking. The Contractor shall coordinate with and notify the Special Inspector of all tests. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and submit

spent at the site and shall notify the General Contractor responsible for the quality of the Project of the non-complying items. These Special inspections are in addition to

All concrete shall conform to the requirements as specified in the table below unless noted

Agg. Size	Slump Inches	Max. w/c	Notes	
1 1/2"	5-7			

ing air dry unit STM 33 aggregate)

e Concrete Mix

B. Maximum shrinkage of the concrete shall be 0.03% at 28 days as determined by

the Architect and Structural Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the IX. CONCRETE REINFORCING

- A. Concrete reinforcement for the project shall conform to the following:
- 1. All Reinforcing Steel shall be ASTM A615, Grade 60 unless noted otherwise in the drawings or these notes. 2. Deformed Bar Anchors. ASTM A496 minimum yield strength 70,000 PSI as noted on the drawings. Reinforcing bars shall not be substituted for deformed bar anchors. B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards unless shown otherwise. C. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:
- 1. Provide Class B lap at other location pending Engineer's approval. D. Welding of reinforcing steel will not be permitted unless specifically shown on
- drawings. E. Heat shall not be used in the fabrication or installation of reinforcement.

1-1/2" top, 3" side, 3" bottom

- F. Reinforcing steel clear cover shall be as follows:
- 1. Piers

"Exterior Exposure" refers to concrete exposed to earth or weather.

X. TEXAS DEPARTMENT OF WINDSTORM CERTIFICATION

A. Texas Department of Windstorm Certification: The project is located in NUECES County. All exterior windows, doors, wall coverings, roof coverings, canopies and mechanical equipment and their attachment to the main structure must be designed for a component and cladding wind pressure corresponding to a 3-sec gust of 143 mph wind speed Exposure C according to the International Building Code 2018 with the Texas Windstorm Amendments. All products will require certification stating that the products have been designed and installed for the components and cladding uniform static wind pressure of the aforementioned code. The sub-contractor shall submit the wind storm product certification, the component and cladding wind pressure the product was designed for, any manufacture certification in regards to Texas Wind Storm, and the connection requirements for the product to the Engineer of Record. In addition, all exterior openings i.e. windows and doors shall be impact resistant to wind debris.

B. Texas Windstorm Submittals.

The Contractor and Subcontractors must submit products approved by the Texas Department of Insurance or Equal. When submitting an equal Test Reports, Engineered Calculations and Elevations with Attachement Anchorage must be submitted. Any submittal without proper certifications and data proving that the product meets TDI will be rejected.

- a. Exterior Canopies
- C. Texas Windstorm Inspections
- 1. Canopy Foundations 2. Aluminum Canopy
- 3. CU Curb 4. CU Connection to Curb
- D. TDI Corrosion Resistance Requirements for Construction in the Designated Catastrophe Zone, as defiend by TDI, the following modifications must be made to the Fastener Schedule:
- 1. Metal connectors and fasteners located in open areas shall be either stainless steel and meet ASTM A167; hot-dip galvanized after fabrication and meet ASTM A123 or ASTM A153; hot-dip galvanized or electrogalvanized in accordance with ASTM A641; mechanically deposited zinc coatings in accordance with ASTM B695; or electrodeposited zinc coatings in accordance with ASTM B633.
- 2. Metal connectors and fasteners located in vented or enclosed areas may meet the requirements of R325.1.2.1 or shall be epoxy-coated in accordance with ASTM A899.
- 3. Exception for all Areas Metal connectors and fasteners located in conditional areas (Heated and Cooled Living Areas) are not required to be corrosion resistant. One-half inch diameter or greater steel bolts are not required to be corrosion resistant.
- 4. Open Areas Shall Include Porches, Decks, Carports, Exterior Wall Coverings, Roof Coverings, Metal Ties for Stone and Masonry Veneer. The Underside of Elevated Structures. Anchors for Securing Mechanical Equipment, Garage Door Attachments, Roof Vent Attachments, Skylight Attachments, and Impact Protective Systems (Shutters).
- 5. Vents Areas Shal Include Attics, Exterior Wall Stud Cavities, Crawl Spaces, Window and Exterior Door Attachments, Roof Sheathing, and Wall Sheathing.
- E. Products that are not Approved by TDI or The Florida Building Code will require Certification by a professional Engineer. The drawings and calculations shall be sealed. Additional cost will be charged to the Contractor for review of submittal that are not TDI or Florida Building Code Approved. Certification by a Professional Engineer must include forces from impact and make sure connections can with stand impact force. Submittal without impact forces shall be rejected.

XI. STRUCTURAL STEEL

A. Material

- 1. All hot rolled steel members shall be new domestic, and conform to ASTM specification A6. 2. ASTM Specification and Grade. Clearly mark the grade on each member. 3. Unless noted otherwise structural steel members shall be:
- a. Angles shall conform to ASTM A36.
- b. Steel pipe shall conform to ASTM A53, Type E or S, Grade B. c. Structural steel plate shall conform to ASTM A36 or ASTM A572 Grade 50. See details for specific requirements.

B. Fabrication

- 1. Fabricate and assemble structural assemblies in shop to greatest extent possible.
- 2. Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the AISC Code of Standard Practice unless noted otherwise. 3. Splicing of structural steel members is prohibited without prior approval of the Engineer as
- to location and type of splice to be made. Any member having splice not shown and detailed on shop drawings will be rejected. 4. Shop painting: Paint structural steel with one coat of manufacturer's standard Water Based
- primer applied at a rate to provide a uniform dry film thickness of 2.5 mils unless Structural steel will be fire proofed. 5. At square or rectangular hollow Structural shape members provide a fitted end cap at ends

C. Erection

- 1. Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified
- otherwise on the drawings shall conform to the AISC Code of Standard Practice. 2. Field cutting of structural steel or any field modifications to structural steel shall not be made
- without prior approval of the Engineer. 3. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion,
- as required, until the steel is enclosed and protected by the new construction.
- D. Hot Dip galvanize after fabrication all structural steel items and connections permanently exposed to the outside, whether specified on the drawings or not. Such items include, but are not limited to:
- 1. Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.
- 2. Roof Mechanical support steel. 3. Examine the architectural and structural drawings for other items required to be hot dipped galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field
- welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as manufactured by Z.R.C. Company. E. Contractor shall coordinate structural steel fireproofing requirements. All interior structural steel,
- including steel joists, scheduled or indicated to receive spray applied fireproofing shall be delivered to the project site unprimed. Steel exposed to corrosive conditions after installation shall be primed with a protective coating which does not diminish the bond between the spray applied fireproofing, and the steel substrate. Any primer, and/or coating applied to structural steel shall be approved for use in the applicable U.L. Fire Resistance Assembly used on the project.

(281
F. Contractor to provide an allowance for (one) ton of structural steel to be furnished, Detailed,
Fabricated, and Installed during the progress of the work as directed by the Structural Engineer in
addition to all of the structural steel indicated on the drawings. If the structural steel is not used
during the progress of the project, the owner shall receive a credit for the portion not used.

XII. STRUCTURAL STEEL CONNECTIONS

A. Welded Connections

1. All welding shall conform to ANSI/AWS D1.1, latest edition. 2. Fillet welds with no size specified shall be 3/16" or minimum size required by AISC, whichever is larger.

B. For connections not specifically addressed by these notes or Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint.

XIII. LIGHT GAUGE METAL STRUCTURAL MEMBERS

The design of CFMF is shown on the contract documents. CFMF contractor shall provide as shown on the contract documents no exceptions.

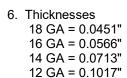
- A. All studs and runner tracks shall be formed from steel that corresponds to the minimum requirements of AISI Standards, Latest Edition.
- B. Physical properties and allowable load capacities of members shall be developed in accordance with the latest edition of the AISI "Specification for the Design of Cold-Formed Steel Structural Members."
- C. Cutting of light gage steel members shall be performed with a saw. Torch cutting shall not be permitted
- D. Holes that are field cut through light gage members shall be made with the limitations of the product design and shall be reinforced as recommended by the manufacturer.
- E. Horiziontal bracing for walls shall be provided at 4 ft o.c. maximum in accordance with the typical
- F. All power actuated fasteners shall be 0.157" diameter X-U fasteners as manufactured by Hilti with an embedment equal to 1 1/4 inches unless noted otherwise.
- G. Place a continuous runner at the bottom and top of all stud walls. Bottom runner shall be connected to support member per schedule

H. Product Identification

- 1. All material 16 Ga or less shall meet the requirements of ASTM A653 with minimum yield strength of 33 KSI unless noted otherwise, 14 Ga material shall have a minimum yield stress of 50 ksi
- 2. All galvanized material to meet the requirements of ASTM with a minimum G60 coating.
- 3. Fastening of components shall be with #10 or #12 self tapping screws as noted in typical

4. Installation of studs shall be as per Metal Lath/Steel Framing Association - Light Weight Steel Framing System Manual, ASTM C955, ASTM C1007 and Project Specifications.

5. Minimum 12" unpunched steel required at both ends of members.



I. Stud

- 1. Use three studs at the corner of all exterior walls.
- 2. Ends of studs must seat firmly in runner track which must have full bearing on structure.
- 3. Attach each runner track leg to each stud flange with one #10-16 screw or #12 screw. 4. No notching or coping of stud is allowed.
- 5. All light gauge steel wall studs shall be full height or span to supports with no splices in stud
- unless detailed otherwise. 6. All horizontal bracing shall be installed at the time the wall is erected at. All multiple studs attach together with 2-#12 TEK screws @ 12"o.c. vertically; no exceptions.

J. Attachments

- 1. Use #10-16 screws for steel connections except as noted as plans and typical details. 2. A 3/4" (minimum) clearance must be maintained from all edges of steel members in locating
- screws 3. For attachment of single laver 5/8" sheathing to steel studs, use 1 1/4" long #6-18 bugle head screws. 6"o.c. at panel edges and in the field typical. At the back side of parapets use 1 1/4", #6 screws @ 4"o.c. edges and at field.

K. System Components

1. Slide clips are used for curtain wall conditions to accomodate vertical movement of structure. Slide clips are attached with powder actuated fasteners (see details), and shall confirm to the Steel Network, Inc. (888)-474-4876

L. Headers

1. Full height studs of corresponding size and appropriate gauge are required immediately adjacent to the jamb studs at each side of openings, see typical details.

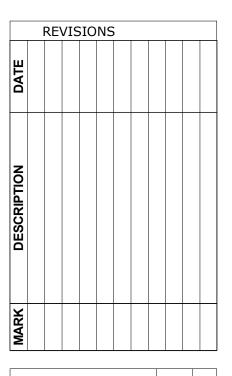
M. CFMF Contractor shall provide an allowance for one ton of additional Cold-Formed Metal Framing material to be utilized on the project as directed by the Engineer. If material is not utilized on the project a credit shall be returned to the owner.

Garza +	- McLain					
www.garza-mclain.com	STRUCTURAL ENGINEERS, INC.					
13313 Southwest Freeway, Suite 163 Sugar Land, Texas 77478						
(281) 494-1230 (voi (281) 494-1234 (fax						





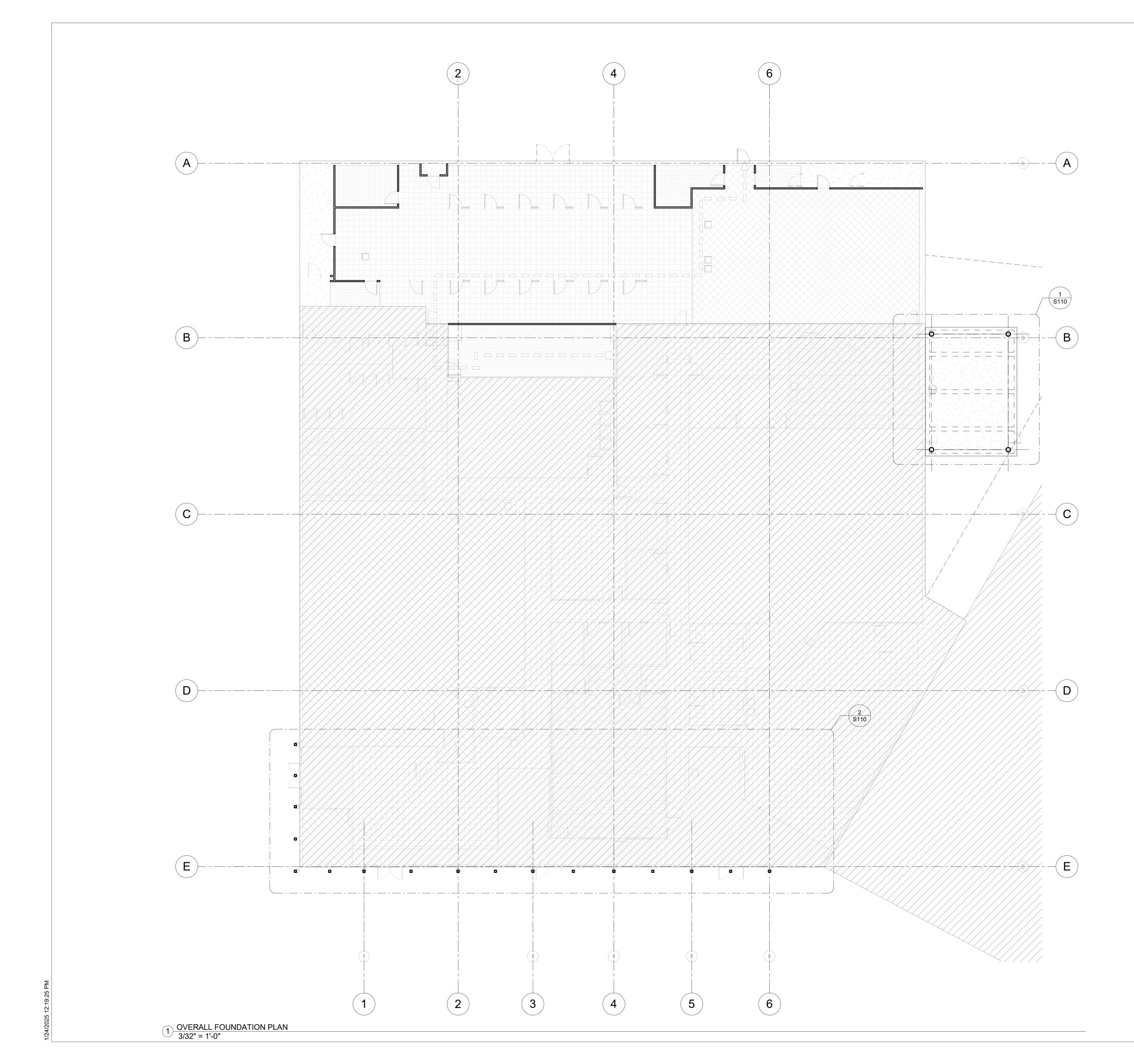
615 N. Upper Broadway Suite 1250 Corpus Christi, TX 78401-07<u>50</u>



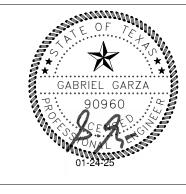
WORKFORCE SOLUTIONS	4981 AYERS STREET	STRUCTURAL GENERAL NOTES	THIS IS TO GIVE NOTICE AND VERTIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE
PHASE III RENOVATION	CORPUS CHRISTI, TX 78415		STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000, www.baestatets.us OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337

JOB NO. 202415 CONSTRUCTION PHASE: DOCUMENTS ISSUE DATE 01/24/2025 DRN. BY: Author CKD. BY: Checker





Garza + McLain www.garza-mclain.com STRUCTURAL ENGINEERS, IN 13313 Southwest Freeway, Suite 163 Sugar Land, Texas 77478 (281) 494-1230 (voice) (281) 494-1234 (fax) FIRM NO. : F-9331 EXPIRATION: 5-31-2025 JOB NO. : 250002



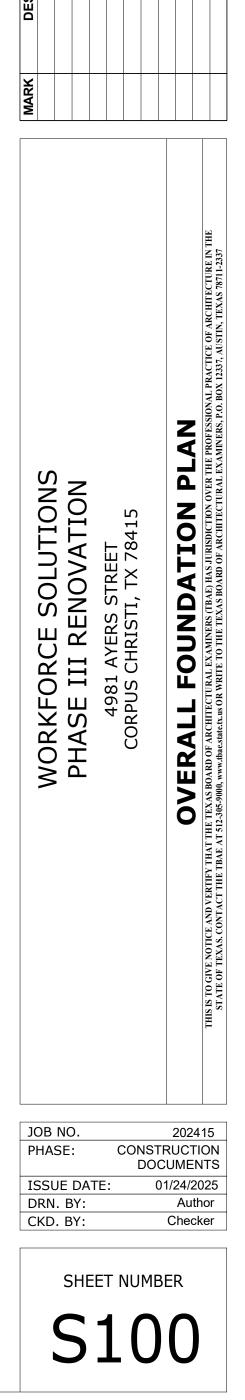


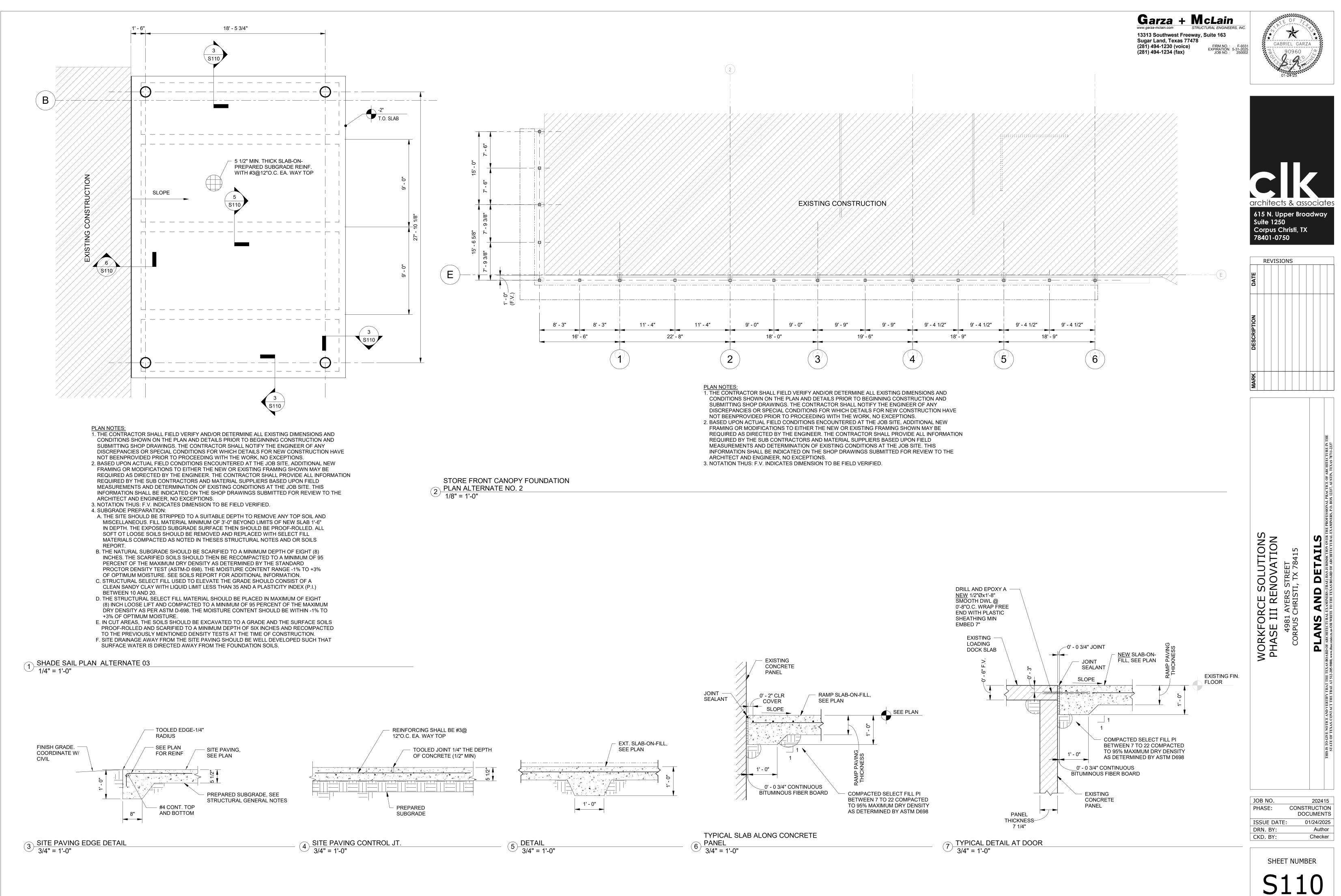
Corpus Christi, TX

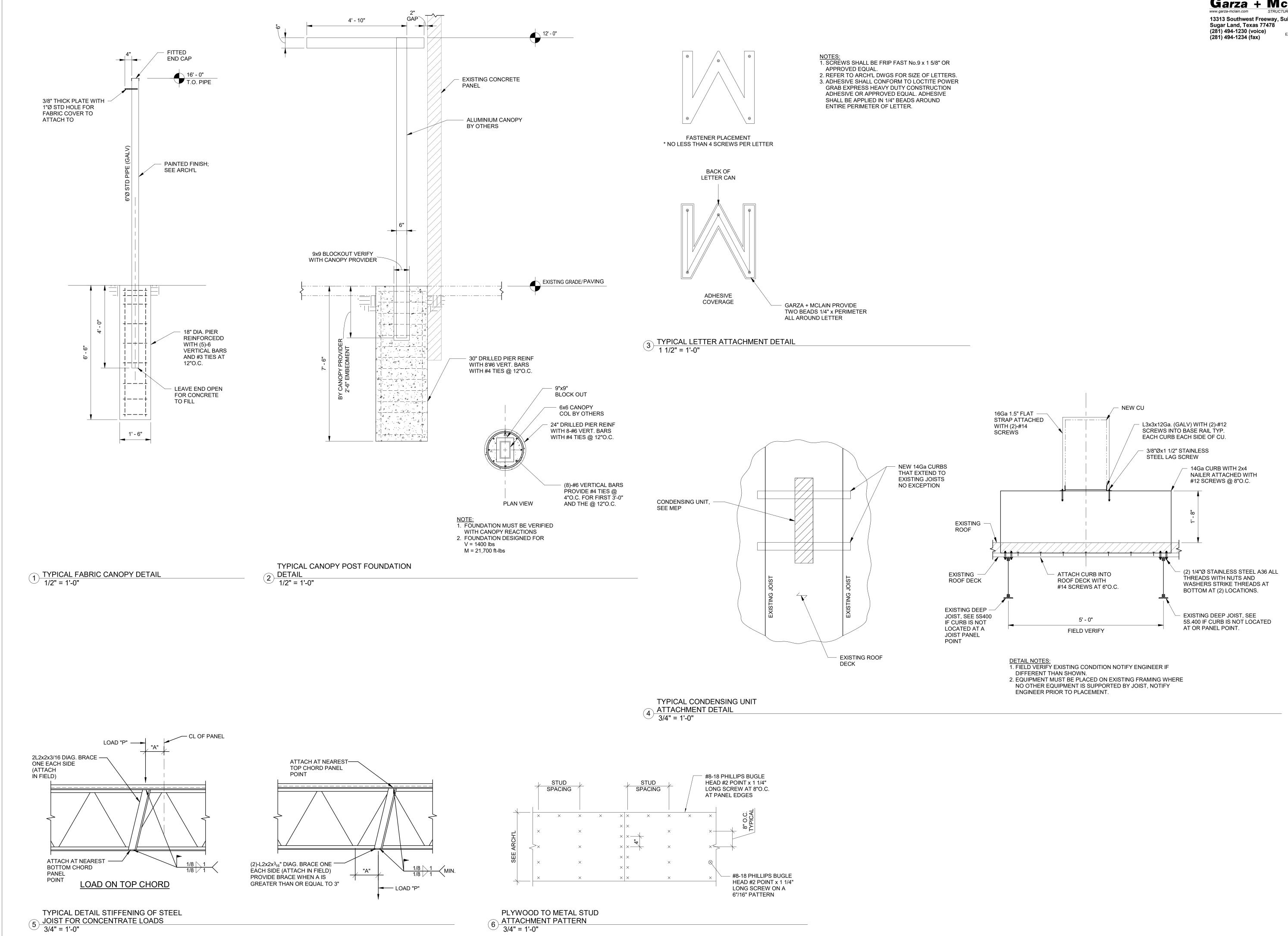
REVISIONS

78401-0750

- PLAN NOTES: 1. THE CONTRACTOR SHALL FIELD VERIFY AND/OR DETERMINE ALL EXISTING DIMENSIONS AND CONDITIONS SHOWN ON THE PLAN AND DETAILS PRIOR TO BEGINNING CONSTRUCTION AND SUBMITTING SHOP DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR SPECIAL CONDITIONS FOR WHICH DETAILS FOR NEW CONSTRUCTION HAVE NOT BEENPROVIDED PRIOR TO PROCEEDING WITH THE WORK, NO EXCEPTIONS.
- 2. BASED UPON ACTUAL FIELD CONDITIONS ENCOUNTERED AT THE JOB SITE, ADDITIONAL NEW FRAMING OR MODIFICATIONS TO EITHER THE NEW OR EXISTING FRAMING SHOWN MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION REQUIRED BY THE SUB CONTRACTORS AND MATERIAL SUPPLIERS BASED UPON FIELD MEASUREMENTS AND DETERMINATION OF EXISTING CONDITIONS AT THE JOB SITE. THIS INFORMATION SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW TO THE ARCHITECT AND ENGINEER, NO EXCEPTIONS.
- 3. NOTATION THUS: F.V. INDICATES DIMENSION TO BE FIELD VERIFIED.







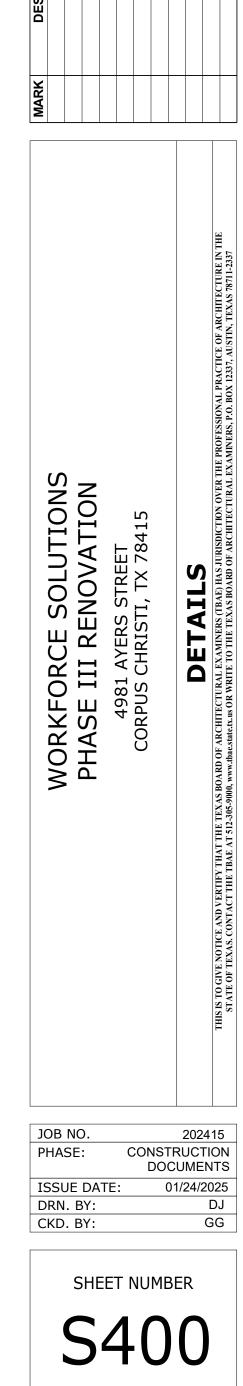
Garza + McLain STRUCTURAL ENGINEERS. 13313 Southwest Freeway, Suite 163 FIRM NO. : F-9331 EXPIRATION: 5-31-2025 JOB NO. : 250002

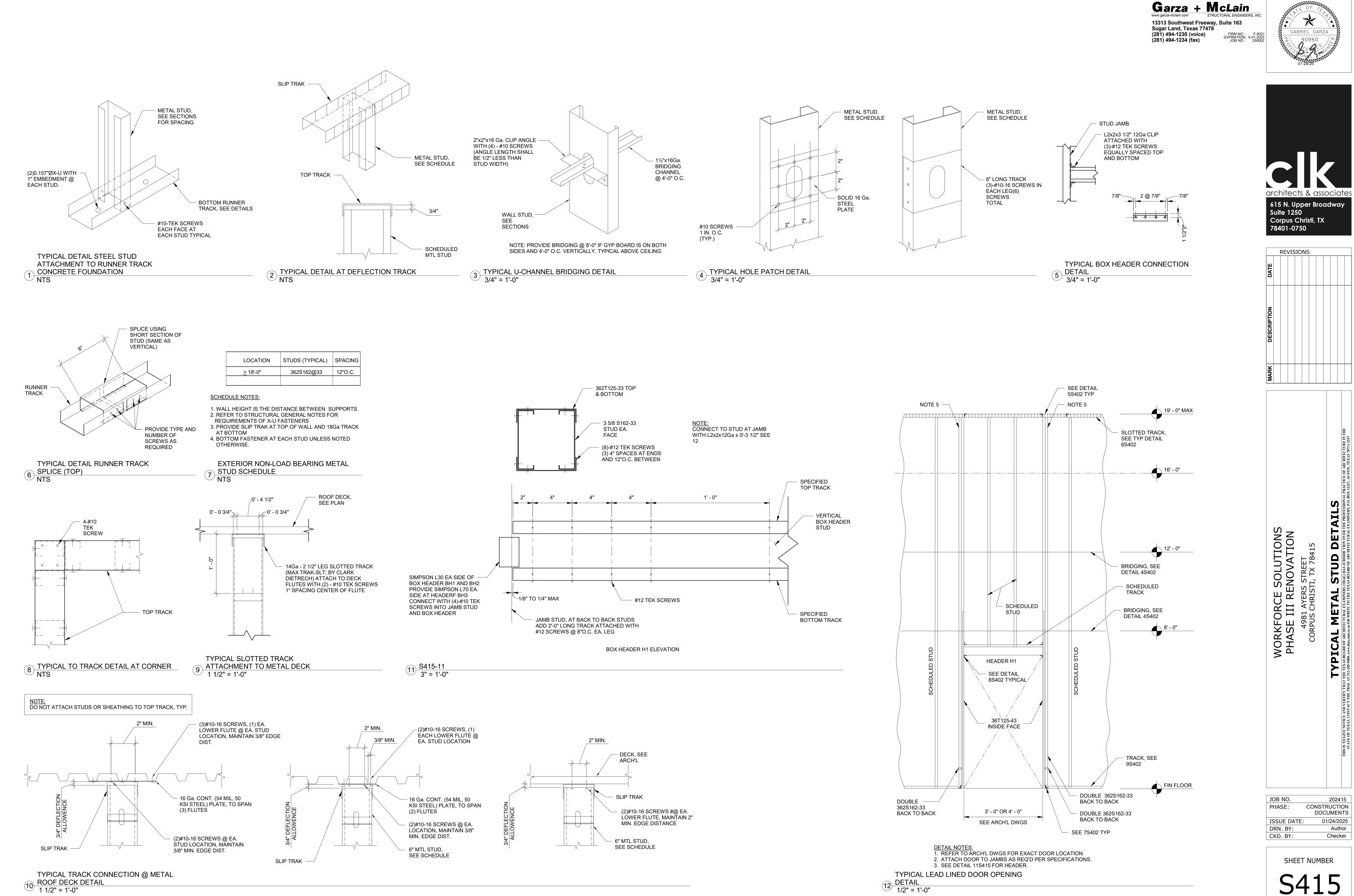


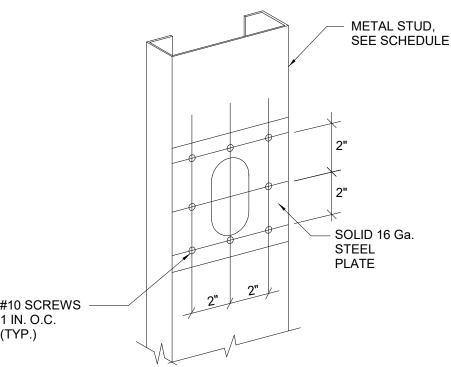


Suite 1250 Corpus Christi, TX 78401-0750

REVISIONS

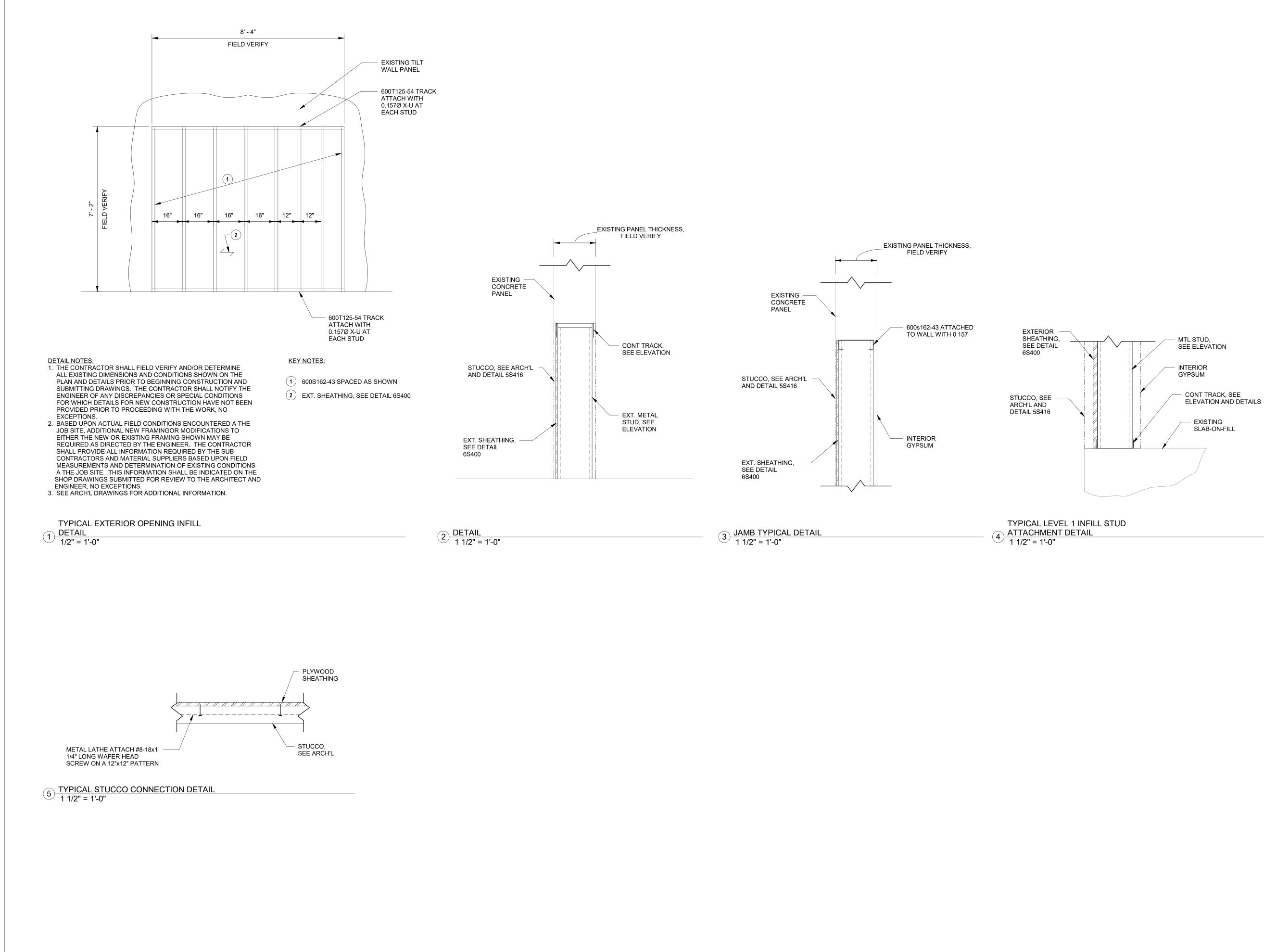






12 <u>DETAIL</u> 1/2" = 1'-0"

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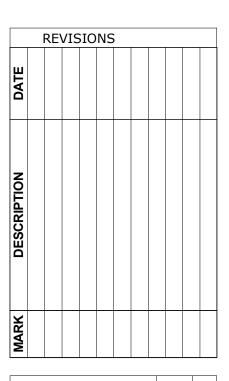


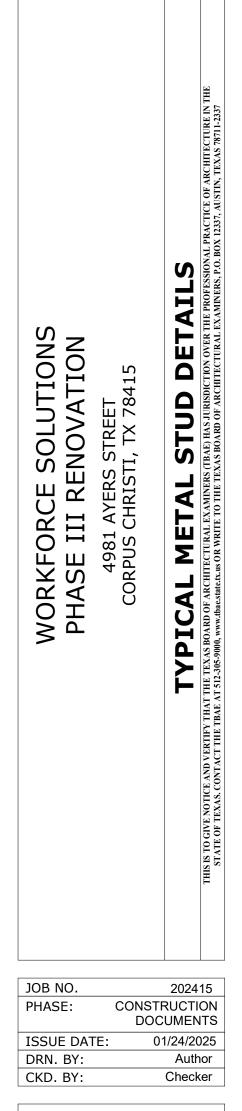


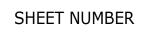








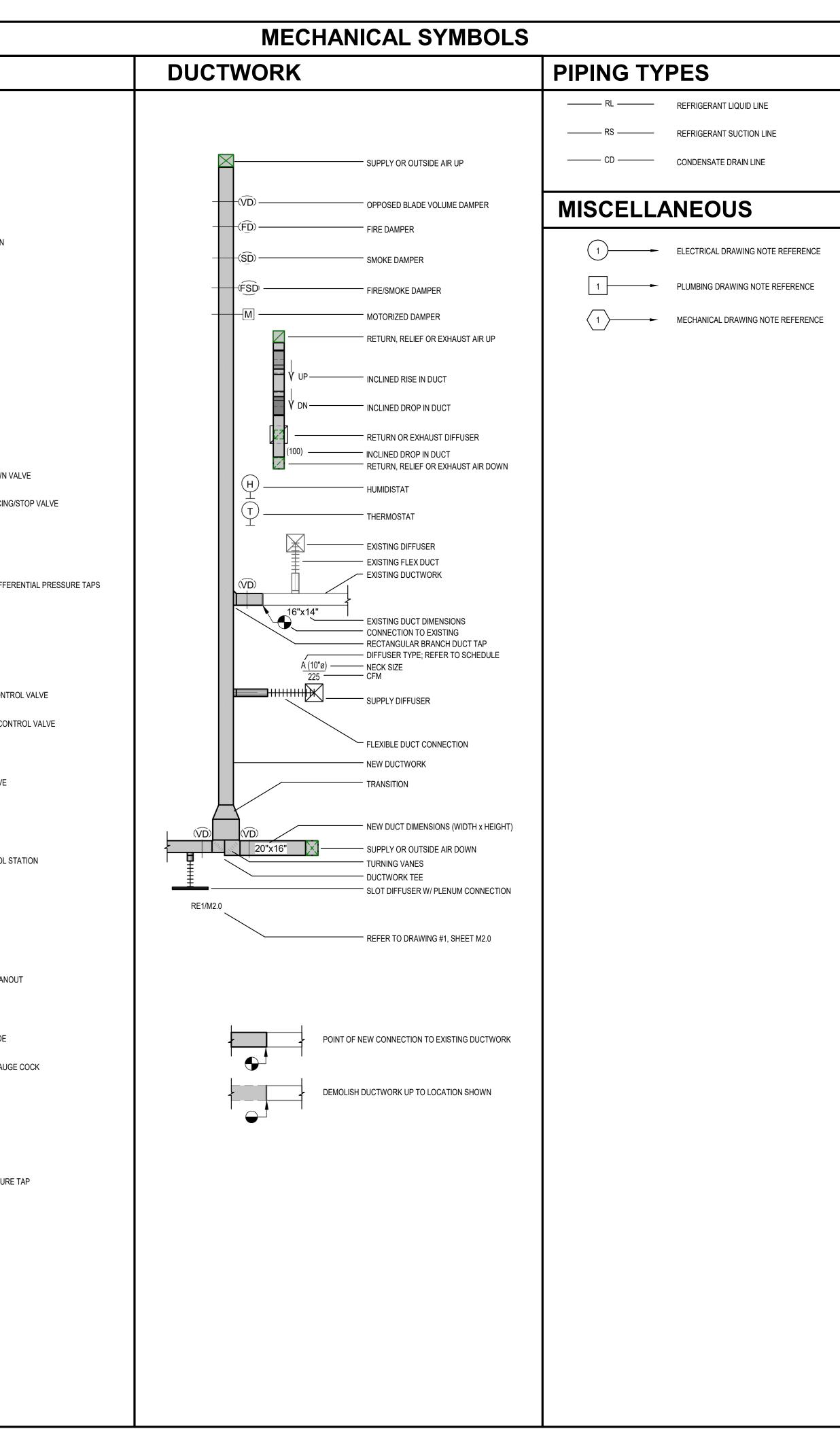






PIPING SY	MBOLS
]	CAP ON END OF PIPE
	ELBOW UP
+-) +-) 4	ELBOW DOWN
+O 4 1	VALVE IN RISE
>	DIRECTION OF FLOW
	DIRECTION OF SLOPE DOWN
	CONCENTRIC REDUCER
<u> </u>	ECCENTRIC REDUCER
+0+	TEE OUTLET UP
+ ;; +	TEE OUTLET DOWN
	UNION
 	FLANGE
— X —	PIPE ANCHOR
	EXPANSION JOINT
+ <u></u> +	STRAINER WITH BLOW DOWN
	GATE VALVE, HVAC BALANCIN
	GLOBE VALVE
	BALL VALVE
	BALANCING VALVE WITH DIFFE
\$	OS&Y VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	TWO-WAY MODULATING CONT
	THREE-WAY MODULATING CO
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
•	GAS REGULATOR
—_+ ∳ +	GAS COCK OR PLUG VALVE
	SPRINKLER FLOOR CONTROL
F	MANUAL AIR VENT
<u> </u>	AUTOMATIC AIR VENT
<u>_</u>	T&P RELIEF VALVE
lı	LINE CLEANOUT/ WALL CLEAN
+Ø	FLOOR CLEANOUT
<u> </u>	FLOOR CLEANOUT AT GRADE
<u> </u>	PRESSURE GAUGE WITH GAU
Щ	THERMOMETER
——————————————————————————————————————	WATER METER
-	FLEXIBLE CONNECTION
<u>n</u>	PRESSURE AND TEMPERATUR
	FLOW VENTURI
F\$	VACUUM BREAKER
Ę	VACUUM RELIEF VALVE
+	BACKFLOW PREVENTER
_ <u>_</u>	CIRCULATING PUMP
Y	
\diamond	STEAM TRAP

PIP



MECHANICAL GENERAL NOTES

- PIPING AND DUCTWORK ON DRAWINGS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING/DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTINGS, INSULATION, AND OTHER ACCESSORIES.
- EXACT LOCATIONS OF TERMINAL BOXES, GRILLES, DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCE AND EASY ACCESS.
- 3. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 10 FEET DISTANCE BETWEEN
- OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS. PROVIDE A CONICAL SPIN-IN SHEETMETAL INLET DUCT TO TERMINAL BOX SHALL BE SAME SIZE AS TERMINAL BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE TERMINAL BOX INLET IS MORE THAN 6'-0" UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ADEQUATE CLEARANCE AROUND VAV BOXES AS REQUIRED BY MANUFACTURER. COORDINATE EXACT LOCATION WITH OTHER TRADES.
- ALL SUPPLY AIR DUCT UPSTREAM OF TERMINAL BOXES (PER DIRECTION OF AIRFLOW) SHALL BE SIZED AND CLASSIFIED TO BE MEDIUM PRESSURE DUCTWORK. THIS DUCT SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM PRESSURE DUCTWORK.
- INSTALL TERMINAL BOXES TO ENSURE ACCESS PANELS ARE NOT BLOCKED. MAINTAIN MINIMUM 4'-0" FOR CONTROL PANEL ACCESS.
- 10. CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
- EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER DRAWINGS AND CUTSHEETS BEFORE FABRICATION OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING PADS.
- 12. CONTRACTOR SHALL VERIFY DUCTED RETURN AIR PATH BACK TO ALL UNITS. REFER TO FLOOR PLANS AND AIR DEVICE TAGS FOR EXACT SIZING. WHERE RETURN AIR PATH IS ROUTED THROUGH A FIRE RATED WALL, A FIRE DAMPER SHALL BE PROVIDED IN THE DUCTWORK.
- 13. COORDINATE EXACT LOCATION, FINISH, AND COLOR OF ALL AIR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- 14. ALL EXPOSED DUCTWORK SHALL BE INTERNALLY LINED.
- 15. PROVIDE ACCESS PANEL FOR ALL HVAC EQUIPMENT LOCATED ABOVE HARD CEILING. SIZE PANEL PER MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AND COORDINATE WITH ARCHITECT FOR FINISH.
- 16. PROVIDE TEMPERATURE SENSORS, HUMIDISTATS AND CO2 SENSORS AT LOCATIONS INDICATED ON PLANS. MOUNT TEMPERATURE SENSORS 2'-0" BELOW THE FINISHED CEILING AND NEAR A RETURN AIR GRILLE, ENSURE ALL TEMPERATURE SENSORS ARE CLEAR OF CASEWORK PRIOR TO FINAL ROUGH-IN. MOUNT HUMIDISTATS AND C02 SENSORS AT THE SAME ELEVATION AS LIGHT SWITCHES. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
- PROVIDE SPIN-IN CONNECTION WITH LOCKING QUADRANT BUTTERFLY FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT.
- 18. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.
- 19. ALL LOW PRESSURE DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM AND LOW PRESSURE DUCTWORK.
- 20. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL 90 DEGREE ELBOWS.
- 21. FASTEN AND SEAL ALL DUCTWORK JOINTS, LONGITUDINAL AND TRAVERSE SEAMS AND CONNECTIONS PER ASHRAE 90.1 SECTION 6.4.4.2.1. DUCT SEALANT SHALL BE INSPECTED PRIOR TO DUCTWORK BEING INSULATED.
- 22. ALL EXPOSED DUCTWORK AND PIPING ALONG WITH ASSOCIATED ACCESSORIES IN AREAS WITH NO CEILING OR PARTIAL CEILING SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR.
- 23. PROVIDE REMOTE SPIN-IN CONNECTION FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT LOCATED ABOVE A HARD CEILING.
- ALL EQUIPMENT LOCATED OUTDOORS SHALL BE SELECTED TO WITHSTAND 150 MPH WINDS AND SHALL BE SECURED DIRECTLY TO STRUCTURE/GRADE. ALL FANS, RELIEF HOODS, AND INTAKE HOODS SHALL BE SECURED TO CURB USING STEEL CABLES. ALL PIPE SUPPORTS AND CONDUIT SUPPORTS SHALL BE ANCHORED TO ROOF DECK. ALL AIR COOLED CONDENSING UNITS SHALL BE ANCHORED TO ROOF DECK. VIBRATION ISOLATORS SHALL INCLUDE UPLIFT SECUREMENT.
- 25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY WILL HAVE OBTAINED THE SCOPE OF MECHANICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- 26. COORDINATE ALL MOUNTING LOCATIONS AND HEIGHTS OF AIR DEVICES WITH ARCHITECT PRIOR TO FINAL INSTALLATION.

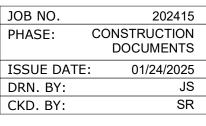






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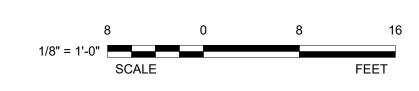
WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISIT, TX 78415	MECHANICAL SYMBOLS AND LEGENDS THIS IS TO GIVE NOTICE AND VERTIEV THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS CONTACT THE TEXA AND AND AND AND AND AND AND AND AND AN
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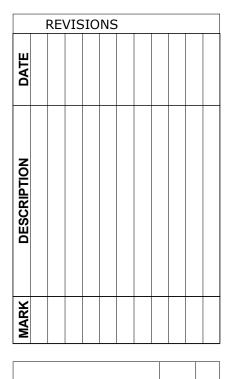
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- CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- SEE M001 FOR SYMBOLS LEGEND AND ADDITIONAL GENERAL NOTES.
- PROVIDE MANUAL BALANCING DAMPER IN ACCESSIBLE LOCATION ON ALL DIFFUSER, RETURN, AND GRILLE RUNOUTS EVEN IF NOT SHOWN ON PLAN.
- MOUNT ALL THERMOSTATS 48" AFF UNLESS OTHERWISE NOTED.
- G. DIAGONAL CROSSHATCH INDICATES OUT OF SCOPE AREA

MECHANICAL KEY NOTES:

- $\langle 1 \rangle$ EXISTING THERMOSTAT SERVES (E)RTU-2. REMOVE AND PREP FOR REUSE.
- $\langle 2 \rangle$ SALVAGE EXISTING DIFFUSER. CLEAN, AND PREP FOR REUSE.
- $\langle 3 \rangle$ DEMOLISH EXISTING SIDEWALL GRILLE. PATCH WALL PER ARCHITECTURAL PLANS.
- (4) DEMOLISH EXISTING DUCTS AND DIFFUSERS UP TO (E)RTU-1. PREPARE (E)RTU-1 FOR REUSE.
- $\langle 5 \rangle$ DEMOLISH CONCENTRIC DIFFUSER AND EXISTING DUCTS UP TO (E)RTU-2. PREPARE (E)RTU-2 FOR REUSE. 6 EXISTING THERMOSTAT SERVES (<u>E)RTU-10</u>. REMOVE AND PREP FOR REUSE.
- $\langle \overline{7} \rangle$ DEMOLISH EXISTING THERMOSTAT SERVING (E)RTU-1.

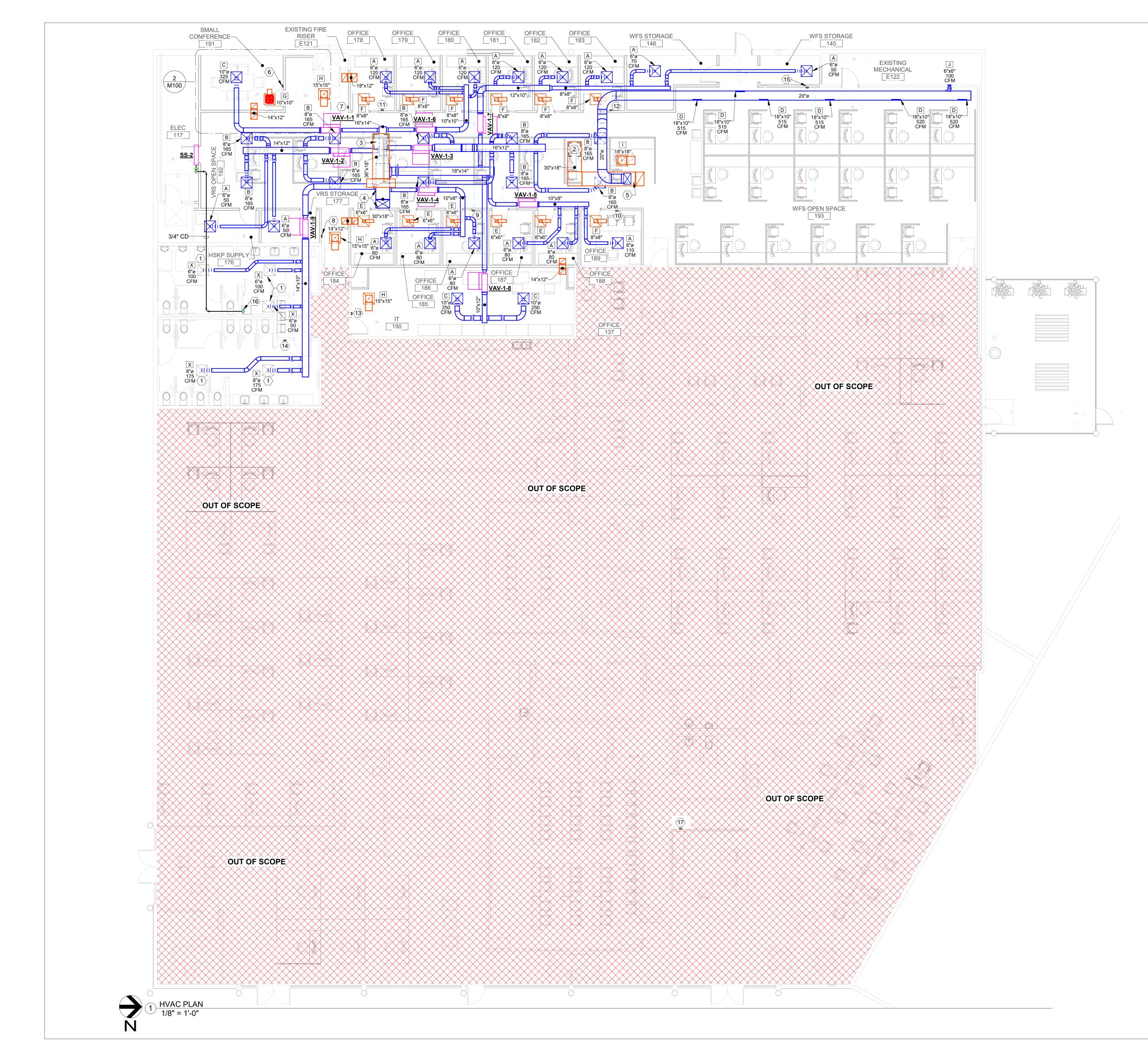


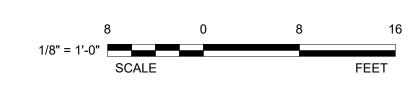


SEAN M. RODRIGUEZ 96478	WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISIT, TX 78415	DEMO HVAC PLAN THIS IS TO GIVE NOTICE AND VERTIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000, www.tbae.statect.us.OR wRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337 STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000, www.tbae.statect.us.OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337
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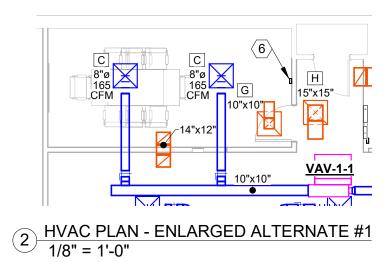


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- SEE M001 FOR SYMBOLS LEGEND AND ADDITIONAL GENERAL NOTES. D.
- PROVIDE MANUAL BALANCING DAMPER IN ACCESSIBLE LOCATION ON ALL DIFFUSER, RETURN, AND GRILLE RUNOUTS EVEN IF NOT SHOWN ON PLAN. MOUNT ALL THERMOSTATS 48" AFF UNLESS OTHERWISE NOTED.
- G. DIAGONAL CROSSHATCH INDICATES OUT OF SCOPE AREA

MECHANICAL KEY NOTES:

- $\langle 1 \rangle$ INSTALL SALVAGED DIFFUSER AT LOCATION. BALANCE TO SPECIFIED CFM.
- 2 CUT 33"x28" OPENING IN TOP OF RETURN DUCT. PROVIDE 5' ACOUSTICAL DUCT LINING.
- 3 CUT 34"x34" OPENING IN TOP OF RETURN DUCT. PROVIDE 5' ACOUSTICAL DUCT LINING.
- 4 30"x18" SA AND 36"x18" RA UP TO (<u>E)RTU-1</u>. PROVIDE NEW SMACNA TRANSITION WHERE UNIT CONNECTS TO DUCTWORK. INSTALL SALVAGED DUCT SMOKE DETECTORS IN DUCT. CONNECT TO BUILDING FIRE ALARM SYSTEM. UNIT TO DEACTIVATE UPON DETECTION OF SMOKE. PROVIDE ALL NECESSARY RELAYS AND COORDINATE WITH FIRE ALARM CONTRACTOR.
- 24"x16" SA AND 30"x18" RA UP TO <u>(E)RTU-2</u>. PROVIDE NEW SMACNA TRANSITION WHERE UNIT CONNECTS TO DUCTWORK. INSTALL SALVAGED DUCT SMOKE $\langle 5 \rangle$ DETECTORS IN DUCT. CONNECT TO BUILDING FIRE ALARM SYSTEM. UNIT TO DEACTIVATE UPON DETECTION OF SMOKE. PROVIDE ALL NECESSARY RELAYS AND COORDINATE WITH FIRE ALARM CONTRACTOR.
- THERMOSTAT TO CONTROL VAV-1-1. $\langle 6 \rangle$
- $\langle 7 \rangle$ THERMOSTAT TO CONTROL VAV-1-2.
- $\langle 8 \rangle$ THERMOSTAT TO CONTROL <u>VAV-1-3</u>.
- $\langle 9 \rangle$ THERMOSTAT TO CONTROL <u>VAV-1-4</u>.
- (10) THERMOSTAT TO CONTROL VAV-1-5.
- (11) THERMOSTAT TO CONTROL <u>VAV-1-6</u>.
- (12) THERMOSTAT TO CONTROL VAV-1-7.
- $\langle 13 \rangle$ THERMOSTAT TO CONTROL <u>VAV-1-8</u>.
- $\langle \overline{14} \rangle$ THERMOSTAT TO CONTROL <u>VAV-1-9</u>.
- $\langle \overline{15} \rangle$ RELOCATE EXISTING THERMOSTAT SERVING <u>(E)RTU-2</u> TO LOCATION.
- $\langle 16 \rangle$ TERMINATE 3/4" CD AT MOP SINK.
- $\langle 17 \rangle$ RELOCATE EXISTING THERMOSTAT SERVING (E)RTU-10 TO LOCATION.

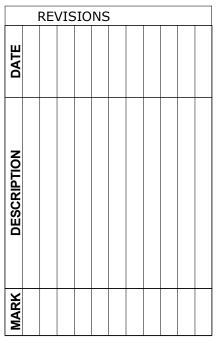






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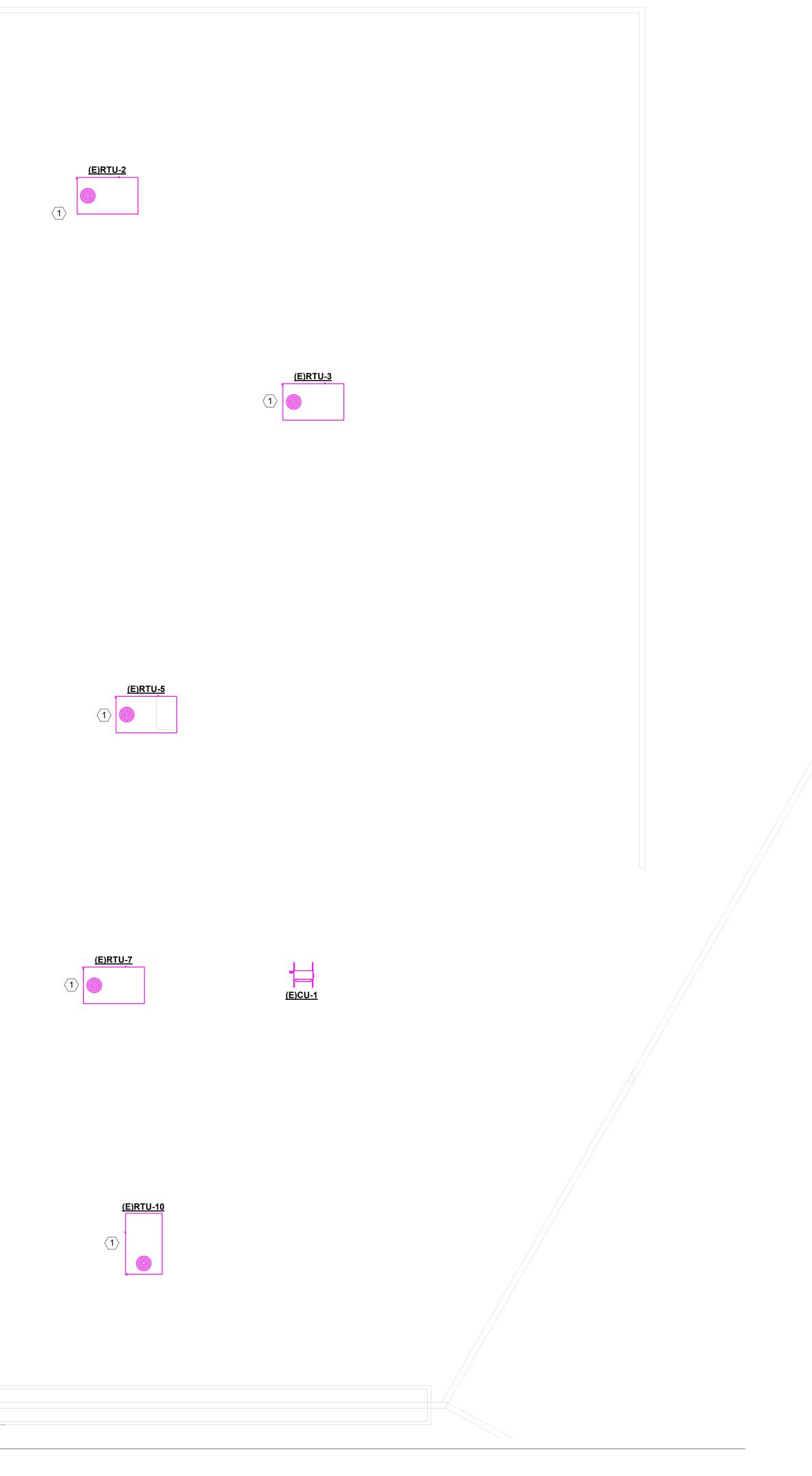
	WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISIT, TX 78415	HVAC PLAN	THIS IS TO GIVE NOTICE AND VERTIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000, www.fbae.state.fx.us OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337
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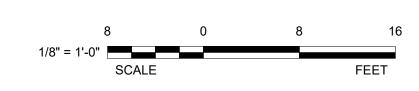
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MECHANICAL GENERAL NOTES:

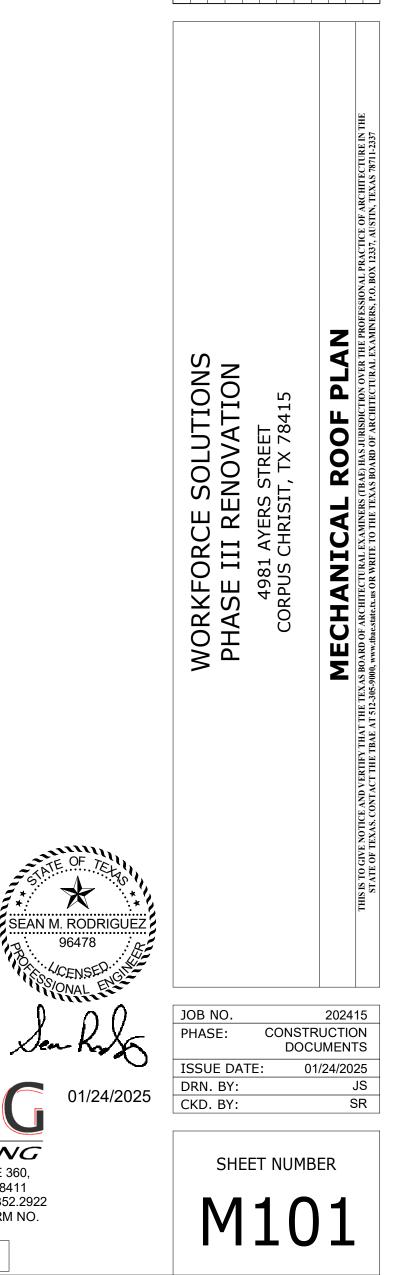
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- D. SEE M001 FOR SYMBOLS LEGEND AND ADDITIONAL GENERAL NOTES.
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- F. MOUNT ALL THERMOSTATS 48" AFF UNLESS OTHERWISE NOTED.
- G. DIAGONAL CROSSHATCH INDICATES OUT OF SCOPE AREA

MECHANICAL KEY NOTES:

- (1) EXISTING RTU TO REMAIN. ALL CONDENSATE DRAIN PIPING IS EXISTING ROUTED BELOW THE ROOF.
- 2 REPROGRAM RTU FOR VAV OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPGRADING THE RTU CONTROLS BOARD AS NECESSARY FOR THE INTENDED OPERATION. THE CONTRACTOR SHALL PROVIDE ALL TEMPERATURE, HUMIDITY, DUCT SENSORS, AND PRESSURE SENSORS FOR A COMPLETE AND OPERATING SYSTEM. INSTALL DUCT MOUNTED PRESSURE SENSOR 2/3 DOWN THE SUPPLY DUCT. STATIC PRESSURE SETPOINT WILL BE DETERMINED DURING BALANCING.
- 3 PROVIDE CHEMLINK CHEMCURB HOT PIPE E-CURB FOR ROOF PENETRATION OF REFRIGERANT LINES TO EQUIPMENT BELOW.



REVISIONS





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AIR HANDLER SCHEDULE
MARK
SERVES
TYPE
MIN-MAX SUPPLY (CFM)
FAN MOTOR TYPE
COOLING COIL @ DESIGN CONDITIO
COOLING COIL (MBTUH) MAX/MIN
NOMINAL TONNAGE
ELECTRICAL DATA
VOLTS/PH/HZ
MCA
MANUFACTURER
MODEL NO.
NOTES
CONDENSING UNIT SCHEDU
MARK
SERVES
NOMINAL COOLING MBTUH
AMBIENT TEMP. COOLING
SEER2 (EER2)
COP(47/17)
HSPF
MCA
MOCP
VOLTS/PH.HZ
WEIGHT (lb)
MANUFACTURER
MODEL NO.
NOTES
1. PROVIDE UNIT WITH MICROBLUE
2. SIZE REFRIGERANT LINES AS PER
AND LOW PRESSURE SWITCHES,
PROVIDE PRESSURE TAPS ON INL
3. DO NOT EXCEED MANUFACTURES
4. PROVIDE WIRED THERMOSTAT W
5. UNITS SHALL BE CEILING MOUNTE
6. ACCEPTABLE MANUFACTURES AF
7. INDOOR UNIT SHALL BE POWEREI

	S.M.A.C.N.A CLASS		
DUCT SYSTEM	S.P. CONSTRUCTION	SEAL CLASS	REMARKS
SUPPLY AIR DUCT	2"	В	
RETURN AIR DUCT	2"	B	
EXHAUST AIR DUCT	2"	B	

APPLICABLE LEAKAGE CLASSES									
DUCT CLASS 1/2, 1, OR 2 INCH WG 3 INCH WG 4, 6, 10 INCH WG									
SEAL CLASS	В	В	A						
SEALING APPLICABLE	Transverse Joints	Transverse Joints	Joints, Seams and						
	and Seams	and Seams	Wall Penetrations						
LEAKAGE CLASS									
RECTANGULAR METAL	12	12	6						
ROUND METAL	6	6	3						

TAG	MANUFACTURER	MODEL	RTU	ROOMS SERVED	SIZE		CFM		STA	TIC PRESS	SURE	1	NC LEVELS	6 ELECTR	IC HEATI	NG COIL				E	LECTRICA	-
			TAG		UNIT	DUCT RUNOUT	MAX	MIN	% TURNDOWN	INLET	DOWN	MIN	RAD.	DISCH.	CFM	KW	VOLTS/PH	STEPS	EAT	LAT	MCA	M
VAV-1-1	PRICE	SDV	RTU-1	191	6	8	325	100	31%	1.00	0.30	0.10	25	-	325	2.6	208/1	S	65.0	90.0	17.0	
VAV-1-2	PRICE	SDV	RTU-1	192, 176, 177	8	10	760	230	30%	1.00	0.30	0.01	26	21	760	6.0	208/1	S	65.0	90.0	39.3	
VAV-1-3	PRICE	SDV	RTU-1	192	8	10	990	300	30%	1.00	0.30	0.01	31	26	990	7.8	208/1	S	65.0	90.0	51.1	
VAV-1-4	PRICE	SDV	RTU-1	184, 185, 186	6	8	250	75	30%	1.00	0.30	0.06	24	-	250	2.0	208/1	S	65.0	90.0	13.1	
VAV-1-5	PRICE	SDV	RTU-1	187, 188, 189	6	8	270	85	31%	1.00	0.30	0.07	25	-	270	2.1	208/1	S	65.0	90.0	13.8	
VAV-1-6	PRICE	SDV	RTU-1	178, 179, 180	6	8	360	110	31%	1.00	0.30	0.12	26	20	360	2.8	208/1	S	65.0	90.0	18.3	
VAV-1-7	PRICE	SDV	RTU-1	181, 182, 183, 146, 147	6	8	480	145	30%	1.00	0.30	0.21	30	25	480	3.8	208/1	S	65.0	90.0	24.9	
VAV-1-8	PRICE	SDV	RTU-1	190	6	10	500	150	30%	1.00	0.30	0.22	31	26	500	4.0	208/1	S	65.0	90.0	26.2	
VAV-1-9	PRICE	SDV	RTU-1	102, 103, 104	8	12	600	600	100%	1.00	0.30	0.01	25	-	600	4.7	208/1	S	65.0	90.0	30.8	
	ALL PERFORMANCE BA	-		CTED IN ACCORDANCE WITH 2008 APPENDIX E.	ASHRAE 130	-2016 AND AHRI 880-2	2017.	<u></u>					<u> </u>	<u>.</u>	<u> </u>	1						

3. ALL AIRFLOW, PRESSURE LOSSES AND HEATING PERFORMANCE VALUES HAVE BEEN CORRECTED FOR ALTITUDE.

4. UNITS OF MEASURE: DIMENSIONS (IN), AIRFLOW (CFM), WATER FLOW (GPM), AIR PRESSURE (IN WG), WATER HEAD LOSSES (FT) AND TEMPERATURES (DEGF). 5. IN THE "STEPS" COLUMN, CODE "S" DENOTES A MODULATING SCR HEATER.

AND ELECTRIC COIL FULL LOAD CURRENT RATINGS

7. PROVIDE DOOR INTERLOCK DISCONNECT FOR EACH UNIT.

8. CONSTANT VOLUME BOX. DAMPER SHALL MODULATE TO MAINTAIN AIRFLOW. HEATER SHALL MODULATE TO MAINTAIN ROOM SETPOINT.

					AIR B		NCE SCHED
	SS				MARK	SERVE	
	ELECTRI						
	WALL N 361 -				(E)RTU-1	VRS O	FICE
	DC M				(E)RTU-2	WFS O	PEN OFFICE
IONS	DOM	oron			(E)RTU-3	EXISTI	
	24.0)/8.2			(E)RTU-4	EXISTI	
	2.	.0			(E)RTU-5	EXISTI	
					(E)RTU-6 (E)RTU-7	EXISTI	
	208/	1/60			(E)RTU-8	EXISTI	
	1.				(E)RTU-9	EXISTI	
	MITSU				(E)RTU-10	EXISTI	
	MSY-G	S24NA					
	1,3,4,	,5,6,7			(E)EF-1	RETRO	OMS
ULE					(E)EF-2	MEN 12	26
	CU	J-2			(E)EF-3	WOME	N 125
	SS	S-2					
	24	.0			OA		
	9				EA		ST AIR TOTAL RENCE (OA-EA)
	21.5 ((12.6)					ENCE (UA-EA)
		-				CONDI	TIONED AREA (SQUARE F
		-			— A		ED CFM FOR PRESSURIZA
	2				 В	BUILDI	NG LEAKAGE BASED ON E
	208/				C	BUILDI	NG EXHAUST
	11					ΜΙΝΙΜ	JM REQUIRED FOR PRESS
	MITSU	JBISHI				AMOUN	IT OF FRESH AIR PROVID
	MUY-G	S24NA				AMOUN	IT TO BE RELIEVED (DELI
	2,3	3,6				BUILDI	NG PRESSURIZED AT:
WITH WIFI CAPABILITII TED COOLING AND HE ARE MITSUBISHI OR D ED THROUGH THE OU	EATING. AIKIN.					PLAN	MANUF. & MODEL NUMBEF
ROOFTOP UN		E				A	TITUS OMNI-AA
MARK SERVES	(E)RTU-1 VRS OFFICE	(E)RTU-2 WFS OFFICE				В	TITUS OMNI-AA
TONS	12.5	10					
EER (IEER)	12.1	12.4		 		С	TITUS OMNI-AA
CFM OA CFM	4535 700	3200 260		 			
FAN RPM	-	-				D	TITUS
EXT SP	1.5"	0.8"		 	 		S300FL
BHP COOLING SECTION	-	-		 		E	TITUS
EAT DB/WB	81.6/72.5	76.0/69.4					PAR-AA
LAT DB/WB	55.0/54.0	55.0/54.0				F	TITUS
TOT MBTUH SEN MBTUH	133.5 65.3	97.9					PAR-AA
HEATING SECTION	00.0						TITUS
HEATING EAT	61.0	61				G	PAR-AA
HEATING LAT HEATING KW	65.0 18.0	88 27.0 (2)		 	 		TITUO
	10.0	21.0 (2)				Н	TITUS PAR-AA
VOLTS/PH	480/3/60	480/3/60					
MCA MOCP	35 40	46 50		 		1	TITUS PAR-AA
MFG	CARRIER	CARRIER					
MODEL No.	50TC-D14A2C6	50TC-12A2C6				J	TITUS 300FL
WEIGHT NOTES:	2500 ALL	1700					
NOTES:		1-3				BOR	DER TYPE
VALUES.	R FUNCTION. LEAVING	AIR TEMPS SHALL BE F	REPROGRAMMED	 -		2. SN 3. LA	
2. ALL INFORMATION NO 3. CONTRACTOR TO VEF NOTIFY ENGINEER OF		ORKING CONDITION PR	RIOR TO START O	J.			LINE COPPED VELED

4. REFERENCE CONTROLS ON SHEET M500.

CONTRACTOR PROVIDED AND INSTALLED ITEMS:

1. CONTRACTOR IS RESPONSIBLE FOR CLEAN HVAC COILS AT THE END OF CONSTRUCTION. PROVISIONS SHALL BE TAKEN TO KEEP COILS CLEAN. IF THE COIL GETS DIRTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OR REPLACING COIL.

2. CONTRACTOR SHALL PROVIDE THREE SETS OF 2" DEEP PLEATED MERV 8 RATED FILTERS EQUIVALENT TO FARR 30/30 FILTERS. THE CONTRACTOR SHALL REPLACE FILTERS JUST AFTER ANY HEAVY SANDING, JUST PRIOR TO AIR BALANCE, AND ONCE AGAIN AFTER FINAL STORE CLEANING IS COMPLETE.

3. CONTRACTOR TO PROGRAM HVAC EQUIPMENT THERMOSTAT, INITIAL OPERATION HOURS AND TEMPERATURE SETPOINTS. ADJUST OPERATIONAL HOURS WHEN OBTAINED BY THE GENERAL CONTRACTOR. 4. PROVIDE IDENTIFICATION ON ALL HVAC EQUIPMENT. PROVIDE STENCIL WITH A MINIMUM OF 4" HIGH BLACK

SPRAY PAINTED LETTERS INDICATING THE TENANT'S NAME, HVAC UNIT NUMBER, AND SPACE NUMBER.

VERIFY ADDITIONAL REQUIREMENTS WITH THE LANDLORD.

6. THE MINIMUM SUPPLY CIRCUIT AMPACITY (MCA) AND MAXIMUM OVERCURRENT PROTECTION (MOPD) RATINGS WERE CALCULATED IN ACCORDANCE WITH UL STANDARDS BASED ON MOTOR

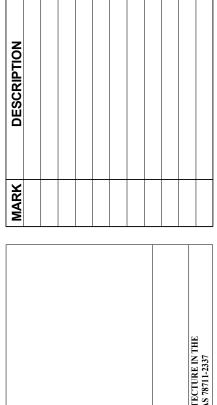
ULE				BASED ON ASHRAE	62.1-2010	
	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	RESULTING	PERCENT
	CFM	CFM	CFM	CFM	BALANCE	OUTSIDE AIR
	4535	3835	700		700	15.4%
	3200	2940	260		260	8.1%
	3200	2820	380		380	11.9%
	2635	2275	360		360	13.7%
	3200	2865	335		335	10.5%
	2340	1770	570		570	24.4%
	3200	2695	505		505	15.8%
	3200	2400	800		800	25.0%
	4635	4175	460		460	9.9%
	4060	3640	420		420	10.3%
				800	-800	
				100	-100	
				100	-100	
					4790	
					-1000	
					3790	
FEET)				24575		
ATION (CFM/SF)				0.066	1621.95	CFM
EXISTING BLDG AT 0.1	CFM/SF X TOTAL SUR	FACE AREA			1340.1	
				=	1000	CFM
SURIZATION (A+B+C)					3962	CFM
DED (DELIVERED)				=	4790	
IVERED - MINIMUM)					828	CFM
	0.05 in. W.G.	AT	3963 CFM			

EFERENCE ONLY. EXISTING RTUS ARE OUTSIDE OF SCOPE OF WORK.

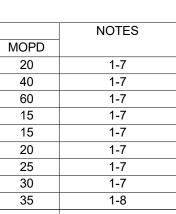
		A	IR D	EVICE	SCHE	DULE				
JMBER	SERVICE	MODULE SIZE	NECK SIZE	FACE SIZE	BORDER TYPE	FINISH	BLOW PATTERN	MAT'L.	OPTIONS/NOTES	
	SUPPLY	24 X 24	6"□	24 X 24	3	26	4	ALU		
Ą	SUPPLY	24 X 24	8"□	24 X 24 3 26		26	4	ALU		
Ą	SUPPLY	24 X 24	10"□	24 X 24	3	26	4	ALU		
	SUPPLY	18 X 10	18 X 10	20 X 12	1	01	-	ALU		
	RETURN	24 X 24	6 X 6	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN	
	RETURN	24 X 24	8 X 8	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN	
	RETURN	24 X 24	10 X 10	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN	
	RETURN	24 X 24	15 X 15	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN	
	RETURN	24 X 24	18 X 18	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN	
	SUPPLY	6 X 6	6 X 6	8 X 8	1	01	-	ALU		
BLOW PATTERN 1. 1-WAY 2. 2-WAY 2C. 2-WAY, OPPOSITE 3. 3-WAY 4. 4-WAY+			FINISH 01 ALUMINUM 04 MILL (STD) 26 WHITE <u>MATERIAL</u> ST'L 22 GAUGE S ALU ALUMINUM	TEEL	TR PF AC AC AC EC EC S AC EC EC					

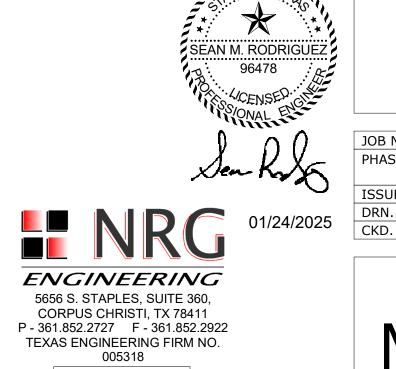
architects & associates 615 N. Upper Broadway Suite 1250 Corpus Christi, TX 78401-0750 REVISIONS

01/24/2025



WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISIT, TX 78415	MECHANICAL SCHEDULES THIS IS TO GIVE NOTICE AND VERTIEV THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000, www.dbaestate.cu.s OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUST
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≍ OF

THROW REDUCING VANES

TRV



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01/24/2025

JS

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CONSTRUCTION DOCUMENTS

JOB NO.

PHASE:

DRN. BY:

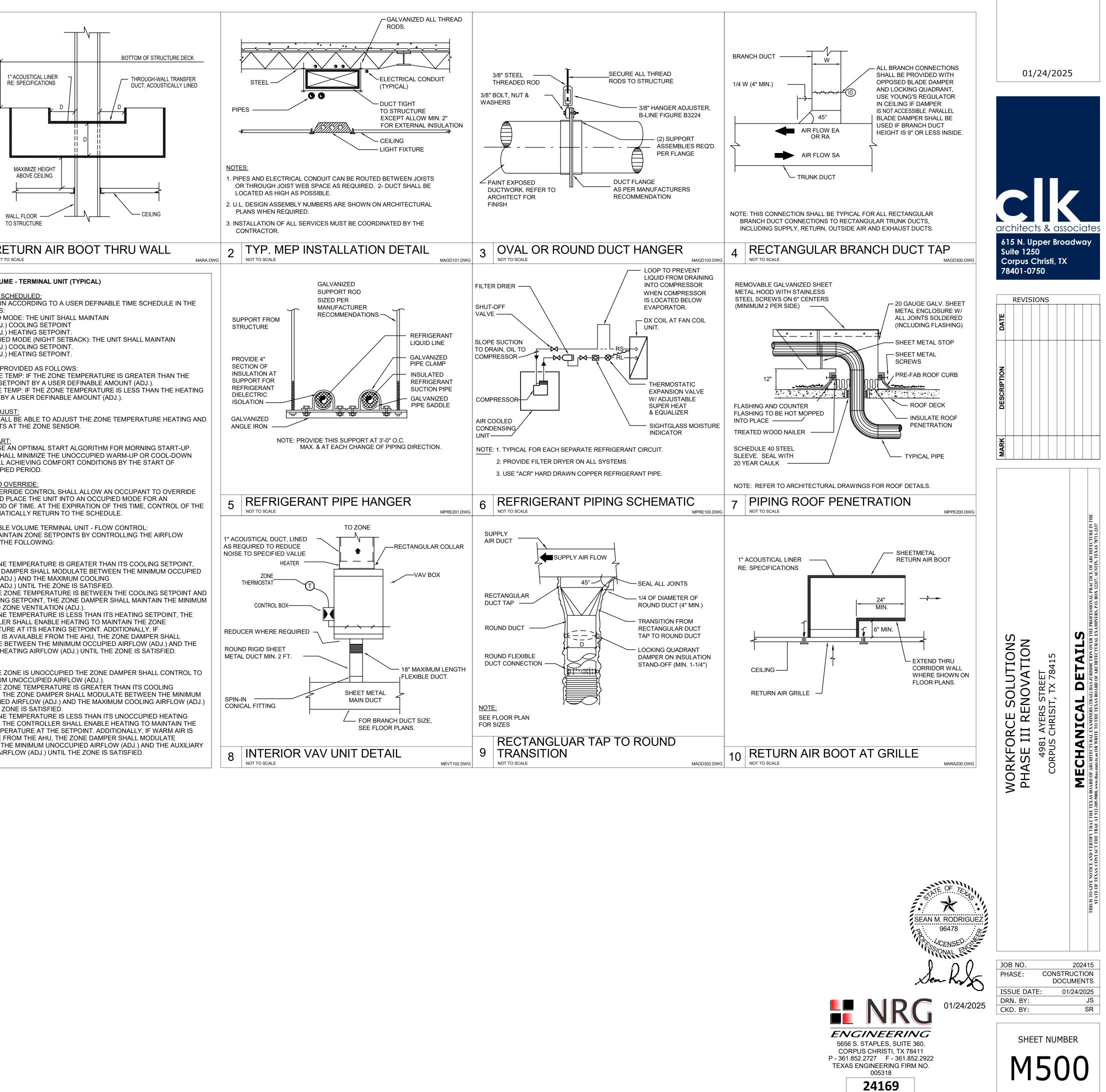
CKD. BY:

ISSUE DATE:



24169

VARIABLE AIR VOLUME - RTU-1	
EACH UNIT SHALL HAVE ITS OWN CONTROLLER AND SHALL BE PROGRAMMED FOR VAV OPERATION AS FOLLOWS.	
<u>RUN CONDITIONS - SCHEDULED:</u> THE UNIT SHALL RUN BASED UPON AN OPERATOR ADJUSTABLE SCHEDULE.	+
<u>HIGH STATIC SHUTDOWN:</u> THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN HIGH STATIC SHUTDOWN SIGNAL.	D/2 F
<u>RETURN AIR SMOKE DETECTION:</u> THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A RETURN AIR SMOKE DETECTOR STATUS.	_ <u>/</u> _
<u>SUPPLY AIR SMOKE DETECTION:</u> THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.	
<u>SUPPLY FAN:</u> THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.	
ALARMS SHALL BE PROVIDED AS FOLLOWS: • SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF. • SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. • SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).	V. Ti
SUPPLY AIR DUCT STATIC PRESSURE CONTROL: THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT. THE SPEED SHALL NOT DROP BELOW 30% (ADJ.). THE STATIC	1 RE
PRESSURE SETPOINT SHALL BE RESET BASED UPON THE POSITION OF THE ZONE DAMPERS, WITH A GOAL OF REDUCING THE STATIC PRESSURE UNTIL AT LEAST ONE ZONE DAMPER IS NEARLY WIDE OPEN.	VARIABLE AIR VOLUM RUN CONDITIONS - SC THE UNIT SHALL RUN FOLLOWING MODES:
 THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.5IN H2O (ADJ.). IF NO ZONE DAMPER IS NEARLY WIDE OPEN, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 1.15IN H2O (ADJ.). AS ONE OR MORE DAMPERS NEARS THE WIDE OPEN POSITION, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 1.8IN H2O (ADJ.). 	• OCCUPIED M • A 75°F (ADJ.) • A 70°F (ADJ.) • UNOCCUPIED • A 85°F (ADJ.) • A 55°F (ADJ.)
 ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT. LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT. SUPPLY FAN VFD FAULT. 	ALARMS SHALL BE PR • HIGH ZONE T COOLING SET • LOW ZONE TE SETPOINT BY ZONE SETPOINT ADJU
<u>SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:</u> THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING AND HEATING REQUIREMENTS	THE OCCUPANT SHALL COOLING SETPOINTS
THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS: • THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 52°F (ADJ.).	THE UNIT SHALL USE A THIS ALGORITHM SHA PERIOD WHILE STILL A SCHEDULED OCCUPIE
 • AS COOLING DEMAND INCREASES, THE SETPOINT SHALL BE 52 F (ADJ.). • AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 48°F (ADJ.). • AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 55°F (ADJ.). 	ZONE UNOCCUPIED O A TIMED LOCAL OVERI THE SCHEDULE AND F ADJUSTABLE PERIOD
IF MORE ZONES NEED HEATING THAN COOLING, THEN THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR HEATING AS FOLLOWS:	UNIT SHALL AUTOMAT REVERSING VARIABLE THE UNIT SHALL MAIN
 THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 65°F (ADJ.). AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 75°F (ADJ.). AS HEATING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 60°F (ADJ.). 	• WHEN ZONE OF TH
<u>COOLING STAGES:</u> THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.	AIRFLOW (AD AIRFLOW (AD • WHEN THE ZO THE HEATING REQUIRED ZO • WHEN ZONE
THE COOLING SHALL BE ENABLED WHENEVER: • OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.). • AND THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN. • AND THE SUPPLY FAN STATUS IS ON. • AND THE HEATING (IF PRESENT) IS NOT ACTIVE.	CONTROLLER TEMPERATUR WARM AIR IS MODULATE B MAXIMUM HE
ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.	UNOCCUPIED: • WHEN THE ZO ITS MINIMUM • WHEN THE ZO
ELECTRIC HEATING WITH SCR: THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE HEATING TO MAINTAIN ITS HEATING SETPOINT.	SETPOINT, TH UNOCCUPIED UNTIL THE ZC • WHEN ZONE SETPOINT, TH
THE HEATING SHALL BE ENABLED WHENEVER: • OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.). • AND THE SUPPLY FAN STATUS IS ON. • AND THE COOLING (IF PRESENT) IS NOT ACTIVE.	ZONE TEMPE AVAILABLE FF BETWEEN TH HEATING AIRI
ALARMS SHALL BE PROVIDED AS FOLLOWS: • LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.	
MINIMUM OUTSIDE AIR VENTILATION - FIXED PERCENTAGE: THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS.	
THE OUTSIDE AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START UP IS AVAILABLE THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER SHALL MODULATE TO FULLY CLOSED.	
<u>MIXED AIR TEMPERATURE:</u> THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR PREHEATING CONTROL (IF PRESENT).	
 ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.). LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.). 	
<u>RETURN AIR TEMPERATURE:</u> THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL (IF PRESENT).	
 ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.). LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.). 	
<u>SUPPLY AIR TEMPERATURE:</u> THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.	



THE WORK INCLUDES PROVIDING NEW DUCTWORK, DIFFUSERS, GRILLES, INSULATION, CONTROLS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM. THE WORK INCLUDES BUT IS NOT NECESSARY LIMITED TO THE FOLLOWING:

- INSTALL ROOFTOP UNITS AND ROOF CAPS. INSTALL EXHAUST FANS
- SUPPLY & RETURN DUCTWORK SYSTEM WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
- TEMPERATURE CONTROL SYSTEM INCLUDING LOW-VOLTAGE WIRING AND
- CONDUIT. DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN. ROOF CURBS, ROOFING AND FLASHING OF ROOF PENETRATIONS FOR
- EQUIPMENT NOTED. FANS AND MAKE-UP AIR UNITS.

SHOP DRAWINGS: SUBMIT 6 SETS OF EQUIPMENT/DUCT SUBMITTALS TO ARCHITECT/ENGINEER FOR APPROVAL.

EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION, SUCH AS DUCTWORK, EXHAUST FANS, SUPPLY AND RETURN DIFFUSERS, ETC. SHALL BE PROVIDED WITHIN THE SCOPE OF WORK OF THIS SECTION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR.

1 - LETTER OF GUARANTEE FROM THE CONTRACTOR. 2 - MANUFACTURER'S PARTS DATA AND SERVICE INSTRUCTIONS ON ALL ITEMS OF EQUIPMENT.

3 - MANUFACTURER'S GUARANTEES AND WARRANTIES.

INSTRUCTIONS TO THE OWNER: THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT. THE CONTRACTOR SHALL FURNISH TO THE OWNER ALL PAMPHLETS AND OTHER LITERATURE FURNISHED BY THE MANUFACTURER

AND EXPLAIN THE PROPER OPERATING AND MAINTENANCE PROCEDURES. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT

CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED. FURNISH AND INSTALL ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

EXTRA STOCK: PROVIDE TWO SETS OF REPLACEMENT FILTERS PER EACH INSTALLED FOR ALL THE ROOFTOP UNITS, AND OTHER EQUIPMENT AND DEVICES, AND PROVIDE A ITEMIZED LIST OF THE NUMBER, TYPE REQUIRED AND WHERE USED. OBTAIN RECEIPT FROM OWNER THAT THESE ITEMS HAVE BEEN DELIVERED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

DUCT DIMMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR UNLINED SHEET METAL DUCTS.

SHEET METAL DUCTWORK: SHEETMETAL SHALL BE FABRICATED AND INSTALLED TO ASHRAE AND SMACNA STANDARDS. SHEETMETAL SHALL BE G-90 GALVANIZED SHEET STEEL OF LOCK-FORMING QUALITY, ASTM A-525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOORS SHALL BE AIRTIGHT WITH APPROVED WEATHERPROOF CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 33 DEGREES.

TRAPEZE DUCT HANGERS: MINIMUM 1" X 2" X 1" X 18" GAGE CHANNELS WITH 1" X 18 GAGE STRAPS TO STRUCTURAL SUPPORT ABOVE.

ALL SUPPLY AND RETURN DUCTWORK SHALL HAVE THE FIRST TEN (10) FEET INTERNALLY LINED. THE REMAINING DUCT SHALL BE EXTERNALLY WRAPPED.

DUCT WRAP/ASJ INSULATION: (ON ALL SUPPLY, RETURN, AND ROUND RIGID SHEETMETAL DUCTWORK): PROVIDE 2" THICK FIBERGLASS ASJ DUCTWRAP WITH VAPOR SEAL ON ALL SHEETMETAL DUCT. INSULATION SHALL HAVE AN INSTALLED R-VALUE OF 5 OR GREATER WITH A K VALUE OF 0.28. ACCEPTABLE MANUFACTURERS ARE KNAUF, OWENS CORNING, JOHNS MANVILLE. INSULATION SHALL MEET THE LATERST ADOPTED IECC AND LOCAL AMENDMENTS.

ALL DUCT INDICATED AS LINED SHALL BE INTERNALLY INSULATED WITH OWENS CORNING FIBERGLASS AEROFLEX DUCT WRAP, 2" THICK, TYPE B-150 INSULATION SHALL HAVE AN INSTALLED R-VALUE OF 5 OR GREATER WITH A K VALUE OF 0.28. ACCEPTABLE MANUFACTURERS ARE KNAUF, OWENS CORNING, JOHNS MANVILLE. INSULATION SHALL MEET THE LATEST ADOPTED IECC AND LOCAL AMENDMENTS.

FLEXIBLE DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH 1-1/2" THICK 1 PCF FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER / VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR 2" W.G. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE, PROVIDE METAL ADJUSTABLE CAMPLING DEVICES, SCREW OPERATED. USE TWISTLOCK CONICAL TAP COLLARS AT CONNECTIONS INTO SHEET METAL CUTWROK. DO NOT EXCEED 6 FEET IN LENGTH. FLEXMASTER 8M OR APPROVED EQUAL.

CEILING DIFFUSERS/RETURNS: INSTALL SUPPLY & RETURN DIFFUSERS/REGISTERS WITH DAMPER | SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.

INSULATE REFRIGERANT SUCTION LINES WITH 1-1/2" CLOSED CELL FOAM PIPE INSULATION WITH SELF-ADHESIVE SEAMS. INSULATION SHALL BE EQUIVALENT TO ARMACELL AP ARMAFLEX.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

AUTOMATIC TEMPERATURE CONTROL: PROVIDE FOR EACH HVAC UNIT, LOW VOLTAGE SEVEN DAY PROGRAMMABLE THERMOSTAT, TRANE, CARRIER, OR HONEYWELL T7300. UNIT SHALL INCORPORATE TWO STAGE HEAT/COOL AS APPLICABLE WITH AN AUTO CHANGEOVER FEATURE. HEATING AND COOLING SET POINTS SHALL BE OPERATOR ADJUSTABLE (THERMOSTATS BY UNIT SUPPLIER).

THERMOSTAT SHALL HAVE A NON-VOLATILE MEMORY WITH MINIMUM 24 HOUR MEMORY RETAINTION, 5 DEGREE F DEADBAND, AND LCD DISPLAY. WIRING SHALL COMPLY WITH SECTION 16000 REQUIREMENTS. PROVIDE RELAYS AS REQUIRED FOR UNIT INTERFACE. PROVIDE ALL TEMPERATURE CONTROL WITING FOR ALL HVAC SYSTEMS, INCLUDING THERMOSTATS, SMOKE DETERCTOR INTERLOCK ETC. INSTALL THERMOSTAT SAME HEIGHT AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT.

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA AND NRCA STANDARDS.

CONTRACTOR TO PROVIDE TEST AND BALANCE NEBB CERTIFIED AIR BALANCE BY INDEPENDENT THIRD PARTY CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL HAVE ALL EQUIPMENT STARTED, ADJUSTED AND TESTED PRIOR TO BALANCING. MECHANICAL CONTRACTOR SHALL ALSO HAVE THEIR TECHNICIAN ON SITE DURING BALANCE TO ADJUST OR CORRECT EQUIPMENT OPERATION DURING BALANCE.

- CONTRACTOR SHALL CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING 1. DRAWINGS AND PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES ABOVE THE CEILING TO PROVIDE GREATEST POSSIBLE CLEANRACE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND ACCESS POINTS ABOVE THE CEILING TO MINIMIZE REQUIRED ACCESS.
- VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT (RECEPTACLES, DISC. SWITCHES, ETC.) SHALL BE
- WEATHERPROOF.
- ALL FUSES FOR HVAC UNITS SHALL BE SIZED AS REQUIRED BY MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITING, TIME DELAY BUSSMAN FRN-R OR RQUAL BY GOULD SHAWMUT. ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
- REFER TO HVAC DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING FANS, MOTORS, ETC. AS INDICATED ON THE HVAC DRAWINGS. ALL DEVICES INSTALLED ON ROOF TOP EQUIPMENT SHALL BE MOUNTED ON A
- NON-REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD
- APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

GENERAL ENERGY NOTES

THERMOSTATIC CONTROLS MUST HAVE A 5deg DEADBAND OR HAVE MANUAL CHANGEOVER BETWEEN HEATING AND COOLING.

PROVIDE AUTOMATIC CONTROLS: SETBACK TO 55degF (HEAT) AND 85degF (COOL): 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP IN THE EVENT OF A POWER LOSS.

OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE PROVIDED WITH AUTOMATIC MEANS TO REDUCE AND SHUT OFF AIRFLOW WITH THE EXCEPTION FOR SYSTEM DESIGNED FOR CONTINOUS OPERATION OR SYSTEM WITH AN FLOW RATE LESS THAN 3,000 CFM: SYSTEMS WITH READILY ACCESSIBLE MANUAL DAMPERS; OR RESTRICTED BY HEALTH AND LIFE SAFETY CODES.

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL181-A OR UL181-B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEMS SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT OF ANY METAL DUCTS.

INSULATION SHALL BE PROVIDED FOR PIPING AS NOTED IN THE TABLE BELOW. PIPING INSULATION SHALL BE PROVIDED FOR RETURN CIRCULATION HOT WATER SYSTEM WITH 1" OR R-4 INSULATION. THE FIRST 8' OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT W/O INTERGRAL HEAT TRAPS SHALL BE INSULATED WITH 5" OR R-4 INSULATION.

WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AS ASSOCIATED WITH THE EQUIPMENT.

AUTOMATIC CIRCULATING HOT WATER SYSTEMS OR HEAT TRACE SHALL HAVE TIME SWITCHES THAT ARE CAPABLE OF BEING SET TO TURN OFF THE SYSTEM.

MINIMUM PIPE INSU	JLATION (II	NCH)	MINIMUN
	NOMINAL	. PIPE DIA.	
FLUID	≤ 1.5"	> 1.5"	
STEAM	1 - 1/2	3 - 1/2	EXCEPT
HOT WATER	1	1 - 1/2	
CHILL WATER OR REFRIGERANT	1	1] -

MINIMU	IM DUCT INSULATION	I (R)				
UNCON	IDITIONED SPACE	≥ 5				
OUTSIE	DE BLDG. ENVELOPE	NVELOPE ≥ 8				
EXCEP 1. 2.	TIONS: WHEN LOCATED WI EQUIPMENT. WHEN DESIGN TEMI DIFFERENCE BETWI INTERIOR AND EXTE THE DUCT OR PLEN NOT EXCEED 15 FT.	P. EEN THE ERIOR OF				

MECHANICAL NARRATIVE

THE HVAC SYSTEM CONSISTS OF (2) EXISTING RTUS AND (1) NEW MINI SPLIT SYSTEM. CONTRACTOR TO VERIFY CONDITION PRIOR TO START OF WORK. CONTRACTOR TO CONVERT RTU-1 TO VAV CONTROLS. INSTALL NEW DUCTS, SPLIT SYSTEMS, AND VAV BOXES AS SPECIFIED IN CONTRACT DOCUMENTS. CONNECT ALL EQUIPMENT TO JOHNSON CONTROLS FX SYSTEM. PROVIDE ALL PROGRAMMING, GRAPHICS, SENSORS, THERMOSTATS, VAV AND UNITARY CONTROLLERS FOR COMPLETE OPERATION.

EACH UNIT SHALL BE PROVIDED WITH THEIR OWN WALL MOUNTED THERMOSTAT FOR CONTROLLING TEMPERATURE IN THE SPACE.

REFER TO THE MECHANICAL ENERGY NOTES FOR COMPLIANCE REQUIREMENTS WITH IECC 2015. SEE THE HVAC DESIGN CRITERIA ON THIS SHEET AS REQUIRED BY THE 2015 IECC.

THE MECHANICAL CONTRACTOR SHALL REVIEW THE SYSTEM COMMISSIONING SPECIFICATION ON THIS SHEET FOR REQUIREMENTS AND PARTICIPATION IN THE COMMISSIONING PROCESS. FAILURE TO COMPLY OR PARTICIPATE MAY INCUR ADDITIONAL COST TO THE CONTRACTOR.

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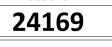
STEMS START-UP REQUIREMENTS		
NTRACTOR SHALL PROVIDE AN EQUIPMENT OPERATION CHECK (EOC). EOC TO PROVIDE RIFICATION AND DOCUMENTATION OF EQUIPMENT CONDITION, INTEGRITY OF		
TALLATION AND OPERATIONAL PERFORMANCE WITH REGARD TO THE SPECIFICATIONS. ALL ALSO INCLUDE ALL ASSOCIATED COMPONENTS PROVIDED BY MANUFACTURER. THE LOWING EQUIPMENT AND INSTALLATION INTEGRITY CHECKS SHALL BE PERFORMED AS	A. RECORD FUEL TYPE.	
RT OF AN EOC. ANY INSTALLER DEFECTS SHALL BE NOTED AND ANY FACTORY DEFECTS ALL BE REPAIRED. A REPORT FOR EACH UNIT ALONG WITH A SUMMARY REPORT FOR TH SITE WILL BE PROVIDED TO THE OWNER AND ENGINEER UPON COMPLETION.	B. CHECK INSTALLATION OF INTAKE AND EXHAUST HOODS. VERIFY	01/24/2025
	C. CHECK INSTALLATION OF GAS UNIONS.	
	D. CHECK AND RECORD INCOMING GAS PRESSURE TO UNIT.	
3 SITE REQUIREMENTS PRIOR TO EOC: COMPLETE INSTALLATION OF ROOFTOP UNIT PER MECHANICAL DRAWINGS, SPECIFICATIONS AND THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION	E. CHECK MANIFOLD GAS PRESSURE FROM THE OUTLET OF THE BAS VALVE(S) PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS. ADJUST AS NECESSARY.	
INSTRUCTIONS. ROOFTOP UNIT MUST BE STARTED UP AND RUNNING 24 HOURS PRIOR TO EOC. UNIT'S RETURN AIR FILTERS MUST BE NEW AND AT LEAST EQUIVALENT TO FACTOR	F. CHECK AND RECORD TEMPERATURE RISE ACROSS HEAT EXCHANGER IN FULL HEAT.	
PROVIDED FILTERS. ALL FIELD INSTALLED HOODS ACCESSORIES MUST BE INSTALLED AND OPERATIONA		
	7. ELECTRICAL HEAT SYSTEM CHECK: (WHEN SPECIFIED):	
	A. CHECK AND RECORD AMP DRAW OF THE HEATING ELEMENTS.	
	B. CHECK HEATING SECTION OPERATION. RECORD TEMPERATURE RISE THRU UNIT IN FULL HEATING OPERATION	architects & associat
A. RECORD RTU #, UNIT C/N, UNIT MODEL #, AND UNIT SERIAL # B. CHECK CURB INSTALLATION INCLUDING VIBRATION	PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.	615 N. Upper Broadway Suite 1250
ISOLATION AND WIND OR SEISMIC RESTRAINTS. VERIFY PER OWNER SPECIFICATIONS AND THE ROOFTOP UNIT		Corpus Christi, TX 78401-0750
MANUFACTURER'S INSTALLATION INSTRUCTIONS.	D. VERIFY CO ² SENSORS ARE OPERATIONAL. E. PERFORM COOLING SIMULATION TEST. VERIFY COOLING	
C. CHECK UNIT CLEARANCES AND VERIFY INSTALLATION PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.	STAGES PER OWNER'S SPECIFICATIONS.	REVISIONS
D. CHECK DOOR ALIGNMENT AND ADJUST AS NECESSARY.	F. PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS.	DATE
E. CHECK UNIT INSTALLATION IS SECURE AND CLEAN.	G. PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.	
F. CHECK INSTALLATION OF CONDENSATE TRAP AND DRAIN LINES PER THE PROJECT SPECIFICATIONS. DRAWING		
DETAILS AND ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTION.	8. THERMOSTAT/ UNIT CONTROLS SYSTEM CHECK:	N
G. CHECK AND NOTE INSTALLATION OF ANY ROOFTOP UNIT	A. RECORD THERMOSTAT OR DDC SYSTEM MAKE, MODEL AND SERIAL NUMBER.	SCRIPTION
MANUFACTURER'S PROVIDED ACCESSORIES PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.	B. VERIFY CLASS 2 CONTROLS WIRING INSTALLATION TO TERMINAL BOARD OF UNIT.	DESC
H. CHECK CLEANLINESS OF UNIT AND AREA AROUND IT. DISPOSE OF ANY DEBRIS FOUND.	C. VERIFY THAT REMOTE SENSORS ARE OPERATIONAL.	
DISPOSE OF ANT DEBRIS FOUND.	D. VERIFY CO ² SENSORS ARE OPERATIONAL.	MARK
ELECTRICAL SYSTEM CHECK:	E. PERFORM COOLING SIMULATION TEST. VERIFY COOLING STAGES PER OWNER'S SPECIFICATIONS.	MA INTERNET
A. CHECK AND RECORD INCOMING POWER SUPPLY. VERIFY PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS AND RECORD.	F. PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS.	
B. VERIFY INSTALLATION AND PROPER SIZING OF ELECTRICAL DISCONNECT OR CIRCUIT BREAKER INCLUDING WIRE SIZE.	G. PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.	
C. CHECK ELECTRICAL CONNECTIONS AND TIGHTEN AS	9. INDOOR AIR QUALITY SYSTEM CHECK:	
D. VERIFY INSTALLATION OF WIRINT TO 120V CONVENIENCE OUTLET (IF APPLICABLE).	A. CHECK AND RECORD CONDITION AND TYPE OF FILTERS.	
E. CHECK AND RECORD UNIT'S CONTROL TRANSFORMER(S)	10. OUTDOOR AIR ACCESSORY CHECK:	
SECONDARY VOLTAGE. ADJUST PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.	A. CHECK OPERATION OF ECONOMIZER OR MOTORIZED OUTDOOR AIR DAMPER BY DRIVING IT FULL OPEN AND CLOSED.	
INTEGRATED MODULAR CONTROLLER CHECK:	B. RECORD MINIMUM DAMPER POSITION AND ENTHALPY SETTING	
A. VERIFY LED HEARTBEAT ON ALL THE ROOFTOP UINIT MANUFACTURER'S PROVIDED CONTROL BOARDS.	(IF PROVIDED). C. CHECK ECONOMIZER CONTROL BOARD SETTINGS PER	SNG
B. RECORD HARDWARE AND SOFTWARE VERSIONS OF ALL	OWNER SPECIFICATIONS, RECORD SETTING.	S J
PROVIDED CONTROL BOARDS C. VERIFY DIP SWITCHES ON ALL CONTROL BOARDS ARE SET	D. CHECK OPERATION OF BAROMETRIC RELIEF DAMPER IF	IONS TON t15 CATI
FOR OWNER SPECIFICATIONS PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.	E. CHECK OPERATION OF POWER EXHAUST IF INSTALLED. CHECK MOTOR AMP DRAW PER THE ROOFTOP UNIT	JTIC ATI(ET 78415 FIC
D. VERIFY ALL THE ROOFTOP UNIT MANUFACTURER'S PROVIDED TEMPERATURE SENSORS READINGS ARE	MANUFACTURER'S INSTALLATION INSTRUCTIONS.	
ACCURATE.		SOI ENO SIT, T) PEC
SUPPLY FAN SYSTEM CHECK:	A. VERIFY COMPLETE INSTALLATION/OPERATION OF ALL THERMOSTATS AND TIME CLOCKS IF UTILIZED.	
A. CHECK BLOWER PULLEY SEY SCREWS FOR PROPER TORQUE. ADJUST AS NEEDED.	B. VERIFY COMPLETE INSTALLATION/OPERATION OF SMOKE DETECTOR/FIRE ALARM INTERFACE.	OR III S Ch
B. CHECK BELT TENSION AND ALIGNMENT AND ADJUST AS NEEDED.	12. DUCT SYSTEMS AND AIR DISTRIBUTION:	DRKFOR(HASE III 4981 A CORPUS CH
C. START UNIT INDOOR BLOWER TO CHECK ROTATION CORRECT AS NEEDED. VERIFY AND DRAW IS PER THE ROOFTOP UNIT MANUFACTURERS SPECIFICATIONS AND	A. VERIFY INSTALLATION CONFORMS TO DESIGN AND ALL PIECES OF AIR DISTRIBUTION, DUCTWORK, DIFFUSERS, AND GRILLES ARE COMPLETE AND PROPERLY INSTALLED.	WORK PHAS
RECORD.	B. VERIFY ALL MANUAL VOLUME DAMPERS ARE IN FULL OPEN OR NEUTRAL POSITION.	ΣE
COOLING SYSTEM CHECK:	13. EXHAUST FAN(S):	
A. LEAK CHECK ALL CIRCUITS.	A. VERIFY PROPER INSTALLATION/OPERATION AND FAN ROTATION.	
B. CHECK COIL INTEGRITY AND CLEANLINESS. CLEAN AS NEEDED.		
C. START EACH COMPRESSOR IN UNIT. CONFIRM PROPER ROTATION AND CORRECT AS NEEDED.		
D. CHECK REFRIGERANT PRESSURES OF EACH CIRCUIT PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATION.	STATE OF TELS	
CORRECT CHARGE AS NEEDED.	SEAN M. RODRIGUEZ	
E. RECORD TEMPERATURE DROP ACROSS THE EVAPORATOR		

SIGNATURE: PLEASE DATE AND INITIAL EACH ITEM AS VERIFIED. COMPLETED VERIFICATION CHECK LIST IS INCLUDED IN OUR REPORT TO THE OWNER AND MUST BE RETURNED PRIOR TO SCHEDULING ARRIVAL OF HVAC SYSTEMS TEST DATE. PLEASE FAX TO THE ITC UPON COMPLETION.

THE HVAC INSTALLER IS REQUIRED TO BE ON SITE FOR THE TWO (2) DAYS THAT THE ITC IS PERFORMING THEIR WORK IN ORDER TO CORRECT ANY PUNCH LIST ITEMS THAT MAY EXIST. SHOULD RETURN TRIPS BECOME NECESSARY AFTER THE INITIAL TWO (2) DAYS. ANY RETEST COST INCURRED BY THE ITC SHALL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE ESTIMATED COST IS \$1,000.00 PER DAY.

COIL IN FULL COOLING (ALL COMPRESSOR RUNNING).







202415

CONSTRUCTION

DOCUMENTS

01/24/2025

JOB NO

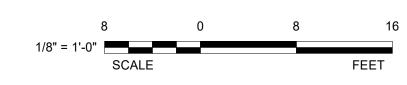
PHASE:

ISSUE DATE

DRN. BY:

CKD. BY:





ELECTRICAL DEMOLITION GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD SO HE OR SHE WILL HAVE OBTAINED THE SCOPE OF WORK. THE ELECTRICAL WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.
- B. WHEN OUTLETS ARE REMOVED, CONDUIT AND WIRE SHALL BE REMOVED BACK TO THE NEAREST REMAINING ACTIVE J-BOX OR PANEL.
- C. RECONNECT ALL LIGHTS THAT MAY HAVE BEEN INTERRUPTED BECAUSE OF REMODELING WORK.
- D. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE, OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.
- E. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
- F. REMOVE ALL OUTLETS AND WIRING ASSOCIATED WITH ALL EQUIPMENT BEING REMOVED, INCLUDING MECHANICAL AND PLUMBING EQUIPMENT.

NOT ALL DEVICES, EQUIPMENT AND LIGHTING IS INDICATED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND INCLUDE IN HIS OR HER BID A FULL DEMOLITION SCOPE OF WORK.

ELECTRICAL DEMOLITION KEY NOTES:

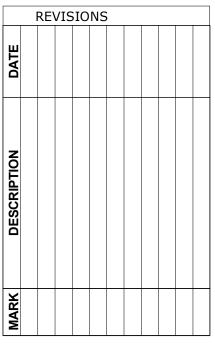
 $\langle \underline{1} \rangle$ REMOVE EXISTING LIGHT FIXTURE. REFER TO SHEET E100 FOR NEW LIGHTING LAYOUT.

- $\langle 2 \rangle$ EXISTING EXIT/EMERGENCY FIXTURE TO REMAIN IN PLACE.
- 3 REMOVE ANY EXISTING RECEPTACLES OR DATA ON WALL. REFER TO SHEET E200 FOR ADDITIONAL INFORMATION.
- 4 EXISTING FIRE ALARM DEVICE TO BE REMOVED. REFER TO SHEET E300 FOR NEW LAYOUT.
- $\langle {\rm 5}
 angle$ Existing fire alarm device to remain.
- $\langle \overline{6} \rangle$ EXISTING ELECTRICAL GEAR TO REMAIN.
- T EXISTING LIGHT FIXTURE TO REMAIN, REFER TO ELECTRICAL LIGHTING PLAN E100 FOR ADDITIONAL INFORMATION.
- $\langle 8 \rangle$ EXISTING EXTERIOR LIGHTING FIXTURE TO BE REPLACED WITH NEW LED FIXTURE PER ALTERNATE #3. REFER TO LIGHTING PLAN, E100 AND LIGHTING SCHEDULE.
- $\overline{(9)}$ EXISTING JBOX FOR BUILDING SIGN TO REMAIN.
- $\langle \overline{10} \rangle$ EXISITNG FIRE ALARM AND DEVICES TO BE RELOCATED PER ALTERNATE #1. REFER TO SPECIAL SYSTEMS PLAN, E300 FOR APPROXIMATE LOCATION.
- $\langle \overline{11} \rangle$ EXISTING CARD READER AND ELECTRONIC STRIKE TO BE REMOVED AND RELOCATED. REFER TO SPECIAL SYSTEMS PLAN, E300 FOR APPROXIMATE LOCATION.
- $\begin{array}{l} \hline \langle 12 \rangle \\ \hline \text{EXISTING CANOPY LIGHTING FIXTURES TO BE REPLACED BY NEW FIXTURES PER \\ ALTERNATE #2. REFER TO LIGHTING PLAN, E100 FOR ADDITIONAL REQUIERMENTS. \\ MAINTAIN EXISTING LIGHTING CIRCUIT AND CONTROLS. \\ \hline \end{array}$
- (13) REMOVE EXISITNG RECEPTACLE AND ANY OTHER DEVICES FROM DEMOED WALL. ROUTE CONDUCTORS TO NEAREST JBOX OR CLOSES DEVICE.
- $\langle \widetilde{14} \rangle$ EXISTING CAMERA TO BE RELOCATED PER ALTERNATE #2. REFER TO SPECIAL SYSTESM PLAN E300 FOR ADDITIONAL INFORMATION.

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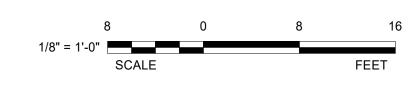




WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISIT, TX 78415	ELECTRICAL DEMOLITION PLAN THIS IS TO GIVE NOTICE AND VERTIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-306-9000, www.dbae.statect.us or write TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337
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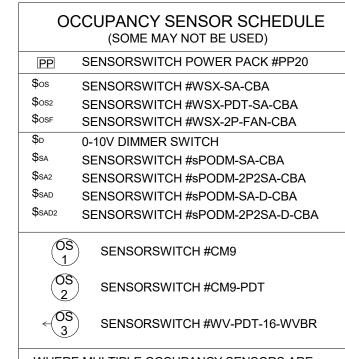
ELECTRICAL GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR
- E. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATION ELECTRICAL CODE.
- F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS, WHERE APPLICABLE.
- H. REFER TO #1/E500 PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL FIXTURES PRIOR TO ROUGH-IN.

ELECTRICAL LIGHTING KEY NOTES:

PERPENDICULAR TO BUILDING LINES.

- 1 EXISTING LIGHTING FIXTURE TO REMAIN, RECIRCUIT BACK TO NEW LIGHTING CIRUIT.
- 2 FIXTURE 'A8-EM' SHALL HAVE 2' SECTION WITH BATTERY BACKUP TOWARDS THE EGRESS PATH.
- 3 EXISTING LIGHTING FIXTURE TO BE REPLACED, RE-CIRCUIT TO EXISTING CIRCUIT AND
- LIGHTING CONTROL, PER ALTERNATE #3.
- 4 NEW DOWNLIGHTS FOR CANOPY PER ALTERNATE #2, RECIRCUIT TO EXISTING/PREVIOUS CANOPY LIGHTING CIRCUIT. MAINTAIN EXISTING CONTROLS.



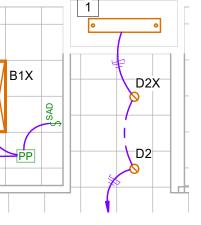
WHERE MULTIPLE OCCUPANCY SENSORS ARE INDICATED CIRCUITED TOGETHER TO ONE POWER PACK OR SET OF POWER PACKS, ACTIVATION OF ANY ONE SENSOR SHALL ENERGIZE POWER PACK (CLOSE RELAY). "CBA" = STANDARD COLOR BY ARCHITECT

CIRCUIT EXIT SIGNS & EMERGENCY LIGHTS (IF APPLICABLE) TO UNSWITCHED SIDE OF LIGHTING CIRCUIT SERVING AREA IN WHICH LOCATED, TYPICAL. ALL EMERGENCY BATTERY PACKS SHALL BE CIRCUITED TO UNSWITCHED SIDE OF CIRCUIT INDICATED.

SENSOR LAYOUT IS BASED ON ACUITY COVERAGE PATTERNS. ADJUST QUANTITIES AND LOCATIONS FOR APPROVED SUBSTITUTION.

ALL SENSORS SHALL BE LINE VOLTAGE, WITH PROVIDED HOT, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED. PROVIDE COPIES OF SENSOR OPERATION INSTRUCTIONS TO OWNER.

SET TIME DELAY TO 15-20 MINUTES FOR ALL OCCUPANCY SENSORS. SINGLE RELAY WALL SWITCH AND CIELING MOUNTED SENSORS TO BE SET TO MANUAL ON, AUTO OFF. REST ROOMS AND CORRIDORS SET THE SENSORS TO AUTO ON/AUTO OFF. DUAL RELAY WALL SWITCH SHALL BE SET TO MANUAL ON MODE RELAY 1, AUTO ON RELAY 2.

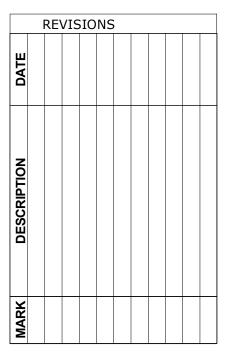


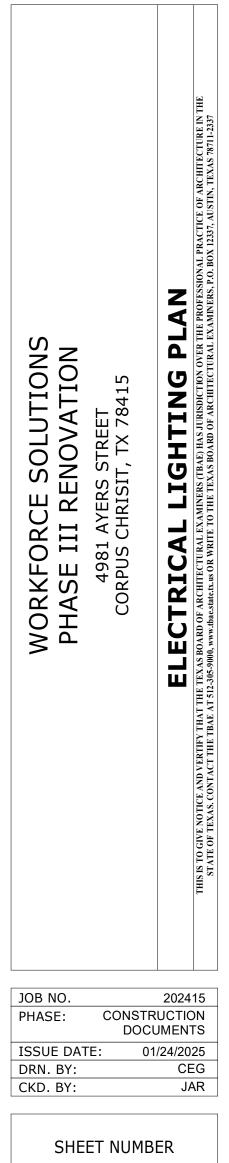
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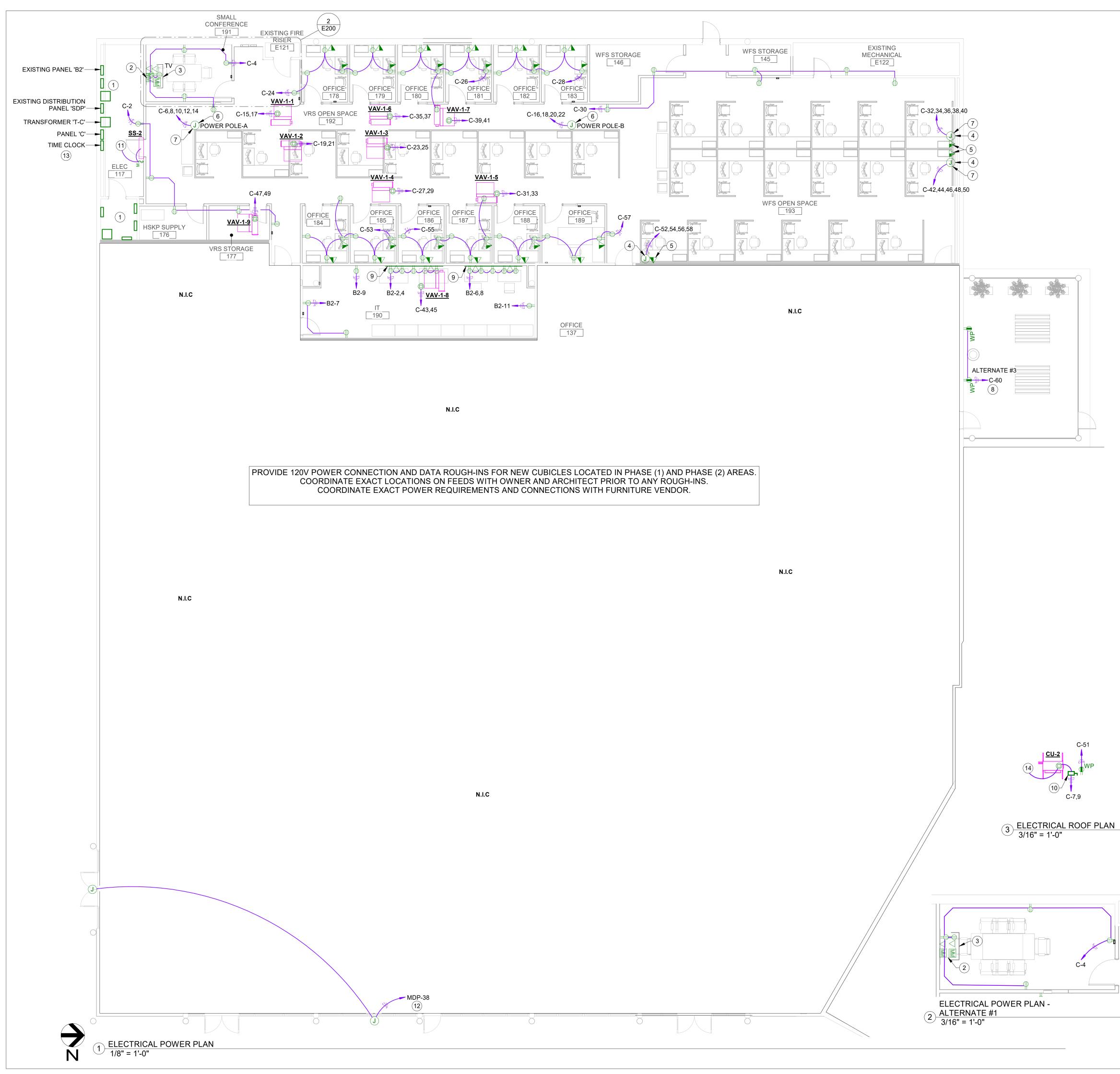


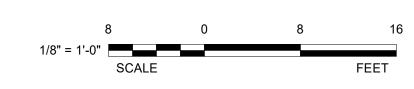












ELECTRICAL GENERAL NOTES:

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR D. PERPENDICULAR TO BUILDING LINES.
- ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATION E. ELECTRICAL CODE.
- F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE G. CEILINGS, WHERE APPLICABLE.
- REFER TO #1/E500 PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF Η. ALL FIXTURES PRIOR TO ROUGH-IN.

ELECTRICAL POWER KEY NOTES:

- (1) EXISTING ELECTRICAL GEAR TO REMAIN.
- (2) PROVIDE 1-1/2" CONDUIT FROM TV AND A/V ROUGH-IN. LOWEST BOX SHALL BE 18"AFF. (3) PROVIDE CHIEF DISPLAY BACK BOX #PAC525FW. BACK BOX SHALL HAVE (1) RECEPTACLE,
- (1) 1"C FOR DATA AND (1) 1"C FOR HDMI TOWARDS FLOOR BOX. MOUNT BACK BOX 72"AFF. REFERENCE ARCHITECTUAL DRAWINGS FOR TV MOUNTING HIGHT.
- (4) PROVIDE FACE PLATE WITH FURNITURE FEED CONNECTION TO SYSTEMS FURNITURE. COORDINATE EXACT ELECTRICAL POWER REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO INSTALLATION.
- (5) PROVIDE (1) 2" CONDUIT STUB-UP FOR FURNITURE STATION DATA WHIP. COORDINATE EXACT DATA REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO INSTALLATION.
- (6) PROVIDE J-BOX ABOVE ACCESSIBLE CEILING FOR FURNITURE POWER POLE FEED. COORDINATE EXACT ELECTRICAL POWER REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO INSTALLATION. ONE CIRCUIT SHALL BE AN ISOLATED/DEDICATED CIRCUIT. REFER TO DETAIL #6 ON SHEET E500 FOR ADDITIONAL INFORMATION.
- (7) PROVIDE 120V POWER AND DATA FOR VRS PRINTER. RUN CIRCUIT C-XX THROUGH POWER POLE INDICATED.
- (8) RECEPTACLES W/WEATHER PROOF BOX TO BE SURFACE MOUNTED 48"AFF. ROUTE CONDUIT TOWARDS PHASE III EXTERIOR WALL. PENETRATE WITH LB CONDUIT BODY INTO SPACE. PER ALTERNATE #3.
- (9) PROVIDE 10' ALUMINUM RACEWAY #HBLALU4800 WITH (5) PRE-WIRED RECEPTACLES ON THE TOP CHANNEL EVENLY SPACED AND (2) DATA PLATÉS WITH 4-PORTS EACH IN BETWEEN THE RECEPTACLES ON THE BOTTOM CHANNEL. REFER TO DETAIL #7 ON SHEET E500 FOR ADDITIONAL INFORMATION. RACEWAY SHALL HAVE (2) 20A CIRCUITS.
- (10) PROVIDE 30A/2P/NF/NEMA-3R DISCONNECT SWITCH. REFERENCE MOUNTING DETAIL #4 ON SHEET E500.
- (11) INTERCONNECT TO CORRESPONDING CONDENSOR UNIT LOCATED ON ROOF. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
- (12) ROUTE CIRCUIT THROUGH TIME CLOCK.
- (13) PROVIDE 2-CHANNEL ASTRONOMICAL TIME CLOCK ADJACENT TO PANEL 'C' FOR BUILDING SIGN CONTROLS. PROVIDE MINIMUM OF 4 CONTACTS. TIME CLOCK SHALL OPERATE FROM DUSK TO DAWN, COORDINATE TIME SCHEDULE WITH OWNER. CIRCUIT TO C-59.
- 14 INTERCONNECT TO CORRESPONDING UNIT LOCATED IN ELECTRICAL ROOM 117. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.

ALL DATA CABLING, AUDIO/VISUAL SYSTEMS, ACCESS CONTROL DEVICES, SECURITY AND SECURITY CAMERA SYSTEMS SHALL BE PROVIDED AND INSTALLED BY OWNER. COORDINATE WITH OWNER'S VENDOR FOR ALL ROUGH-INS. FIRE ALARM DEVICES SHALL BE PROVIDED BY CONTRACTOR.

RECEPTACLES WITHIN THE BUISNESS OFFICES, AND CORRIDORS SHALL BE TAMPER-RESISTANT PER NEC 406.12

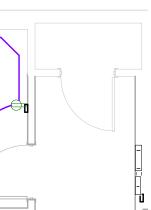
COORDINATE EXACT LOCATION OF FURNITURE POWER FEED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.

ALL SINGLE DUCT TERMINAL UNITS (VAVs) SHALL HAVE INTEGRATED DISCONNECT SWITCH, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

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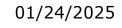
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JOHN A. RODRIGUEZ II 90273

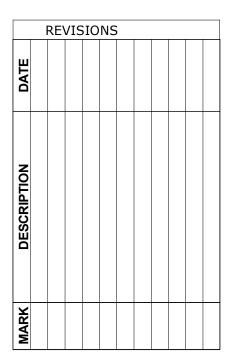


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01/24/2025	
	ENGINEERING
	5656 S. STAPLES, SUITE 360,
	CORPUS CHRISTI, TX 78411
	P - 361.852.2727 F - 361.852.2922
	TEXAS ENGINEERING FIRM NO.
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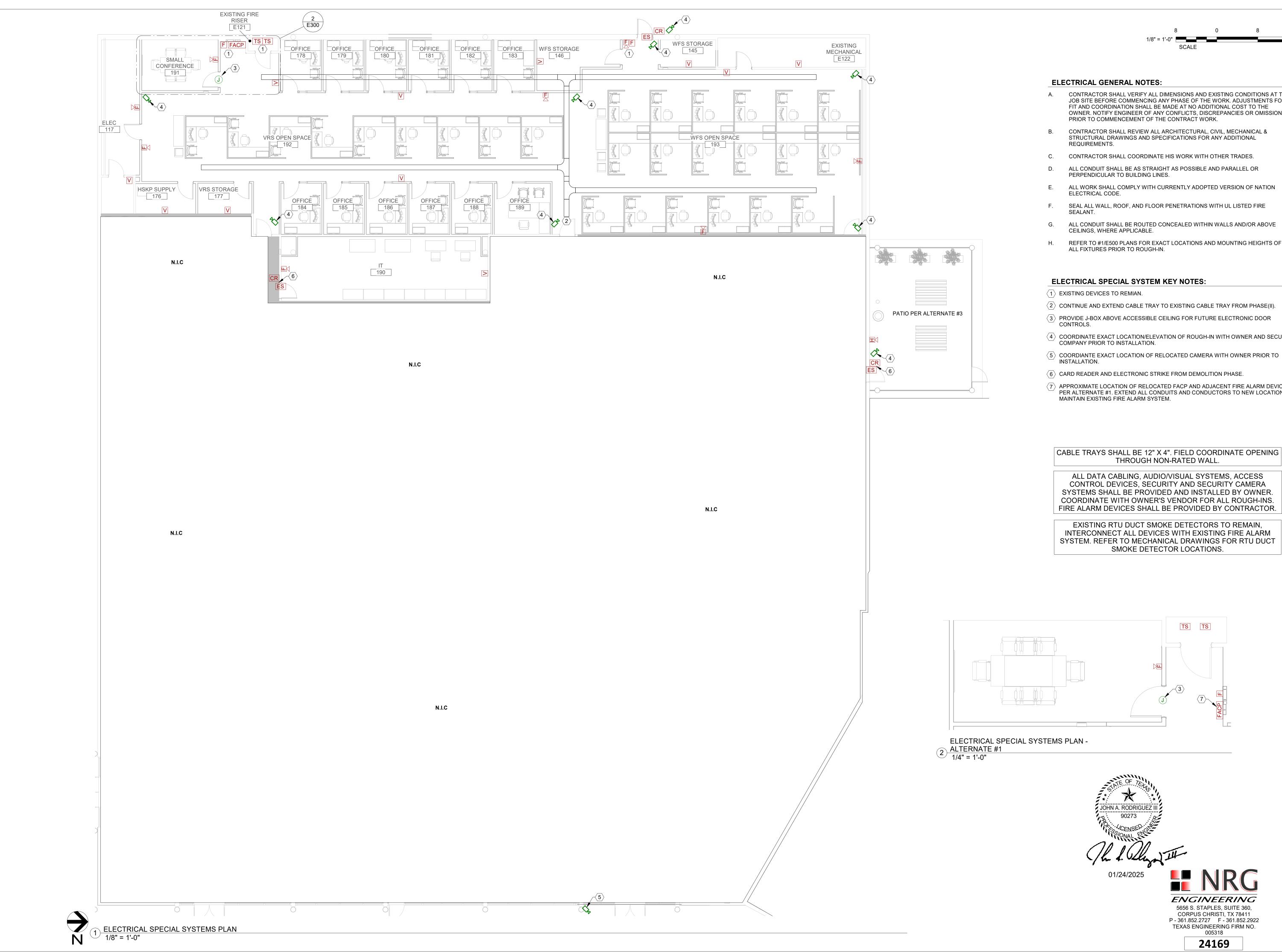


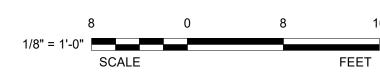




WORKFORCE SOLUTIONS PHASE III RENOVATION	4981 AYERS STREET CORPUS CHRISIT, TX 78415		
PHASE:	CONSTR DOCL	UCTIO JMENT	
ISSUE DAT	E: 01	/24/202	
DRN. BY:		CE	
CKD. BY:		JA	ĸ







- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS
- CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL &

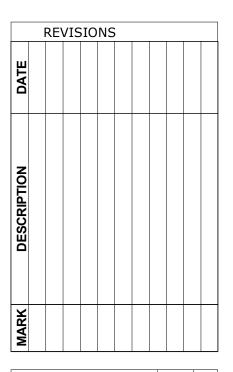
- ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATION
- SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE
- ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE
- REFER TO #1/E500 PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF

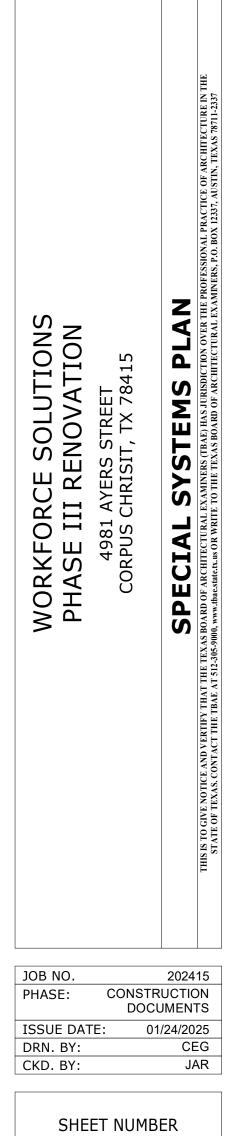
- $\langle 2 \rangle$ CONTINUE AND EXTEND CABLE TRAY TO EXISTING CABLE TRAY FROM PHASE(II).
- $\langle 3
 angle$ PROVIDE J-BOX ABOVE ACCESSIBLE CEILING FOR FUTURE ELECTRONIC DOOR
- $\langle 4 \rangle$ COORDINATE EXACT LOCATION/ELEVATION OF ROUGH-IN WITH OWNER AND SECURITY
- $\langle 5
 angle$ coordiante exact location of relocated camera with owner prior to –
- $\langle 7 \rangle$ APPROXIMATE LOCATION OF RELOCATED FACP AND ADJACENT FIRE ALARM DEVICES PER ALTERNATE #1. EXTEND ALL CONDUITS AND CONDUCTORS TO NEW LOCATION.

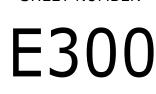
ALL DATA CABLING, AUDIO/VISUAL SYSTEMS, ACCESS CONTROL DEVICES, SECURITY AND SECURITY CAMERA SYSTEMS SHALL BE PROVIDED AND INSTALLED BY OWNER. COORDINATE WITH OWNER'S VENDOR FOR ALL ROUGH-INS.

INTERCONNECT ALL DEVICES WITH EXISTING FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR RTU DUCT SMOKE DETECTOR LOCATIONS.









COORDINATE FUSE REPLACEMENT OUTAGE OF THE MAIN SERVICE DISCONNECT SWITCH WITH OWNER. OUTAGES SHALL ONLY BE DONE AFTER 5PM ON FRIDAYS, SATURDAYS, SUNDAYS, AND/OR HOLIDAYS.

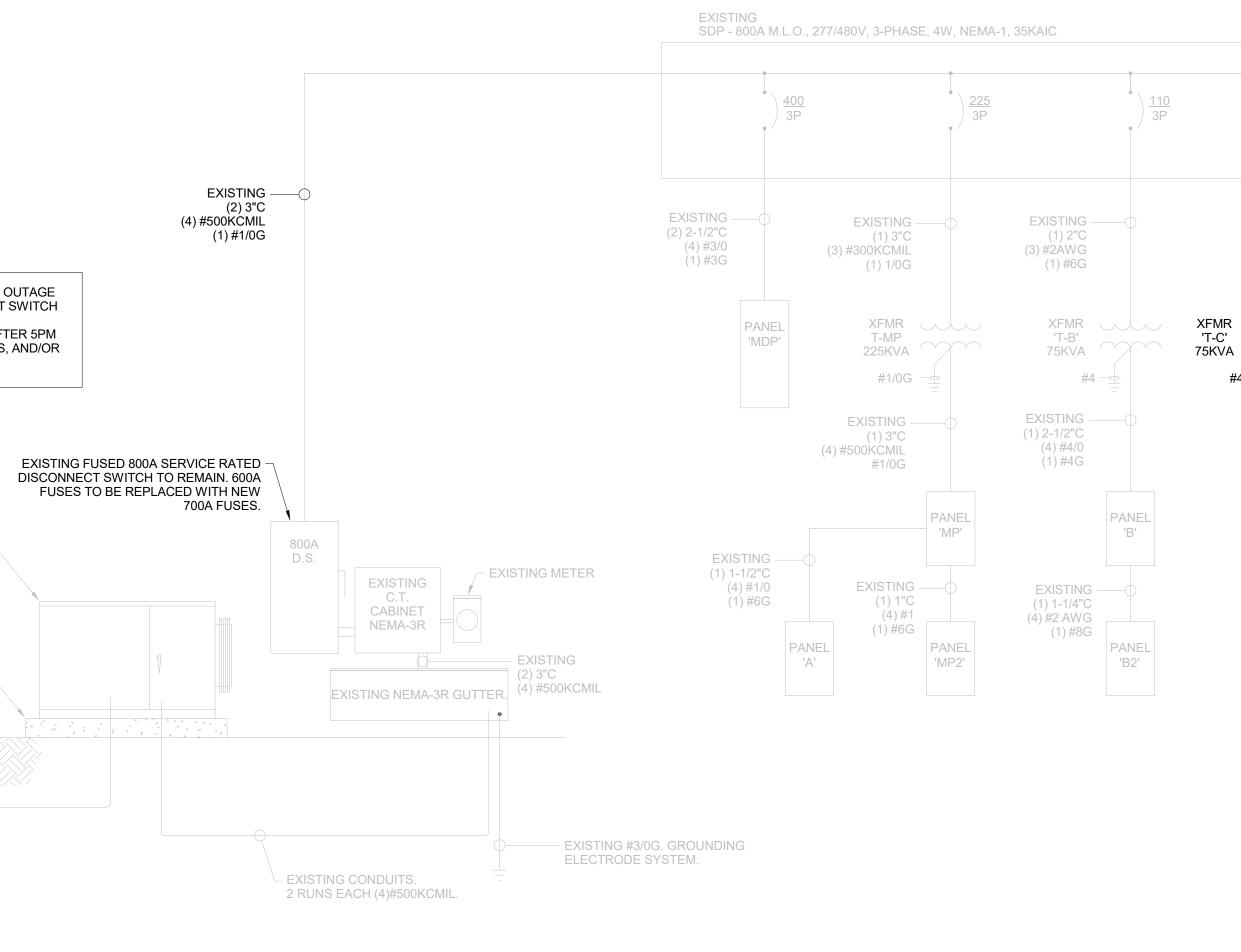
EXISTING PAD MOUNTED -TRANSFORMER BY POWER COMPANY. 480/277V, 3PH, 4W

EXISTING CONCRETE PAD BY -CONTRACTOR PER POWER COMPANY STANDARDAS.

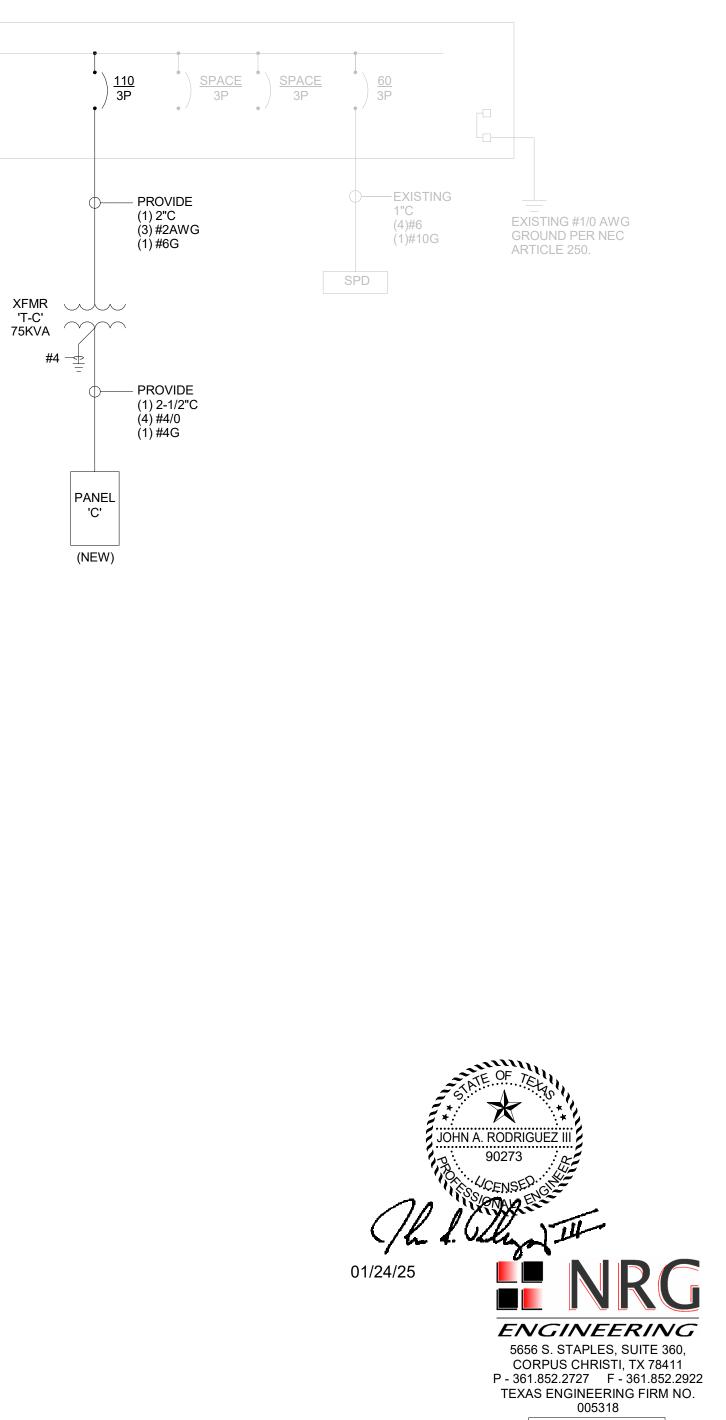
FINISHED GRADE

TO EXISTING UTILITY RISER POLE.

ESTIMATED ELECTRICAL LOAD (PHASE III)								
DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND					
LIGHTING	3879	125%	4849					
RECEPTACLES	39520	NEC 220-44	24760					
KITCHEN EQUIPMENT	0	NEC 220-56	0					
H.V.A.C.	48880	100%	48880					
LARGEST MOTOR	0	125%	0					
MOTOR LOAD	0	100%	0					
MISC. SINGLE PHASE LOADS	500	100%	500					
TOTAL VOLT-AMPERS	92779		78989					
78989 VA / (480*1.732)	=	95	AMPS					
EXISTING ELECTRICAL LOAD	=	435369	VA					
(PHASE I & II)		523.7	AMPS					
TOTAL CONNECTED LOAD VOLT-AMPERS	=	514358	VA					
514358 VA / (480*1.732)	=	618.7	AMPS					





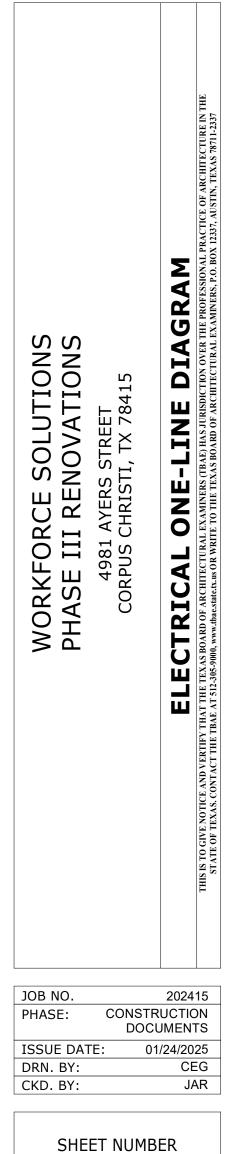


architects & associates 615 N. Upper Broadway Suite 1250 Corpus Christi, TX

78401-0750

01/24/2025

REVISIONS



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/PE MANUFACTURER & CATALOG NO.	VOLTAGE	WATTS	LUMENS	TEMP	MOUNTED	DESCRIPTION
A8 FINELITE #HP-2-P-D-8'-V-840-F-96-277-SC-FC-10%-FA150-C4-FE-CBA-ABL-8H-CBA	277V	74	6400	4000K	SUSPENDED	8' ACOUSTIC LIT BAFFLE LIT @ 10'6" AFF TO BOTTOM OF FIXTURE
8-EM FINELITE #HP-2-P-D-8'-V-840-F-96-277-SC-FC-10%-FA150-C4-FE-CBA-ABL-8H-CBA-FAC CHO	277V	74	6400	4000K	SUSPENDED	8' ACOUSTIC LIT BAFFLE LIT @ 10'6" AFF TO BOTTOM OF FIXTURE W/2' BATTERY PACK
A4 FINELITE #HP-2-P-D-4'-V-840-F-96-277-SC-FC-10%-FA150-C4-FE-CBA-ABL-8H-CBA	277V	37	3200	4000K	SUSPENDED	4' ACOUSTIC LIT BAFFLE LIT @ 10'6" AFF TO BOTTOM OF FIXTURE
A8U FINELITE #HP-2-P-ABU-8'-FA150-8H-CBA	-	-	-	-	SUSPENDED	8' ACOUSTIC BAFFLE UNLIT @ 10'6" AFF TO BOTTOM OF FIXTURE
A4U FINELITE #HP-2-P-ABU-4'-FA150-8H-CBA	-	-	-	-	SUSPENDED	4' ACOUSTIC BAFFLE UNLIT @ 10'6" AFF TO BOTTOM OF FIXTURE
B1 LITHONIA #2BLT4-48L-ADSM-GZ10-LP840	277V	38	4800	4000K	RECESSED	2'X4' LED TROFFER 5000 LUMENS
B1X LITHONIA #2BLT4-48L-ADSM-GZ10-LP840-EL14L	277V	38	4800	4000K	RECESSED	2'X4' LED TROFFER 5000 LUMENS W/ BATTERY PACK
B2 LITHONIA #2BLT4-60L-ADSM-GZ10-LP840	277V	46	6000	4000K	RECESSED	2'X4' LED TROFFER 6000 LUMENS
B2X LITHONIA #2BLT4-60L-ADSM-GZ10-LP840-EL14L	277V	46	6000	4000K	RECESSED	2'X4' LED TROFFER 6000 LUMENS W/ BATTERY PACK
C LITHONIA #LDN6CYL-40/25-LO6-BR-LSS-MVOLT-GZ10-ACC	277V	28	2500	4000K	SUSPENDED	6" SUSPENDED CYLINDER DOWNLIGHT @ 10' AFF TO BOTTOM OF FIXTURE
D1 LITHONIA #LDN6-40/10-LO6AR-LSS-MVOLT-GZ10	277V	11	1000	4000K	RECESSED	6" RECESSED CAN DOWNLIGHT
D2 LITHONIA #LDN6-40/15-LO6AR-LSS-MVOLT-GZ10	277V	18	1500	4000K	RECESSED	6" RECESSED CAN DOWNLIGHT
D2X LITHONIA #LDN6-40/15-LO6AR-LSS-MVOLT-GZ10-EL	277V	18	1500	4000K	RECESSED	6" RECESSED CAN DOWNLIGHT W/ BATTERY PACK
S LITHONIA #CSS-L48-ALO3-MVOLT-40K-80CRI	277V	35	4000	4000K	SUSPENDED	4' STRIP LED SUSPENDED @ 10'6" AFF TO BOTTOM OF FIXTURE
SX LITHONIA #CSS-L48-ALO3-MVOLT-40K-80CRI-IE10WCPHE	277V	35	4000	4000K	SUSPENDED	4' STRIP LED SUSPENDED @ 10'6" AFF TO BOTTOM OF FIXTURE
EX LITHONIA #LHQM-LED-R-HO-SD	277V	3	-	-	SURFACE	EXIT/EMERGENCY LIGHT COMBO
OA LITHONIA #WDGE1-LED-P1-35K-80CRI-VW-MMVOLT-SRM-E4WH-CBA	277V	10	1200	3500K	SURFACE	EXTERIOR WALL PACK W/EM PACK
OC LITHONIS #LDN6-40/20/L06-AR-LSS-MVOLT0GZ10	277V	22	2009	4000K	RECESSED	6" RECESSED DOWNLIGHT ON CANOPY
OCX LITHONIS #LDN6-40/20/L06-AR-LSS-MVOLT0GZ10-EL	277V	22	2009	4000K	RECESSED	6" RECESSED DOWNLIGHT ON CANOPY W/BATTERY PACK

W/SPD

PANEL'C'

CKT #	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	A	BC	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT #
1		-	#10 AWG		A	\	20/1	#12 AWG	900	ELEC/STORAGE RECP	2
3	SPD	-	#10 AWG	30/3		В	20/1	#12 AWG	1080	SMALL CONFERENCE	4
5		-	#10 AWG			С	20/1	#12 AWG	720	POWER POLE A	6
7	CU-2	1872	#12 AWG	20/2	A		20/1	#12 AWG	720	"	8
9	SS-2	1872	#12 AWG			В	20/1	#12 AWG	720	"	10
11	SPACE	-	-	-		С	20/1	#12 AWG	720	"	12
13	SPACE	-	-	-	A		20/1	#12 AWG	800	PRINTER 192	14
15	VAV-1-1	1768	#12 AWG	20/2		В	20/1	#12 AWG	900	POWER POLE B	16
17		1768	#12 AWG			С	20/1	#12 AWG	900	"	18
19	VAV-1-2	4160	#8 AWG	40/2	A		20/1	#12 AWG	900	"	20
21		4160	#8 AWG			В	20/1	#12 AWG	900	"	22
23	VAV-1-3	5304	#4 AWG	60/2		C	20/1	#12 AWG	1080	OFFICE 178/179	24
25		5304	#4 AWG		A	\	20/1	#12 AWG	1260	OFFICE 180/181	26
27	VAV-1-4	1352	#12 AWG	20/2		В	20/1	#12 AWG	1080	OFFICE 182/183	28
29		1352	#12 AWG			С	20/1	#12 AWG	1080	STORAGE/OPEN SPACE	30
31	VAV-1-5	1456	#12 AWG	20/2	A		20/1	#12 AWG	1080	FURN FEED 193	32
33		1456	#12 AWG			В	20/1	#12 AWG	1080	"	34
35	VAV-1-6	1872	#12 AWG	20/2		С	20/1	#12 AWG	1080	"	36
37		1872	#12 AWG		A	\	20/1	#12 AWG	1080	"	38
39	VAV-1-7	2600	#10 AWG	25/2		В	20/1	#12 AWG	1000	PRINTER 193	40
41		2600	#10 AWG			C	20/1	#12 AWG	1080	FURN FEED 193	42
43	VAV-1-8	2704	#10 AWG	30/2	A	\	20/1	#12 AWG	1080	"	44
45		2704	#10 AWG			В	20/1	#12 AWG	1080	"	46
47	VAV-1-9	3224	#8 AWG	35/2		C	20/1	#12 AWG	1080	"	48
49		3224	#8 AWG		A		20/1	#12 AWG	1000	PRINTER 193	50
51	ROOF RECEP	180	#12 AWG	20/1		В	20/1	#12 AWG	1080	FURN FEED 193	52
53	OFFICE 184/185	1260	#12 AWG	20/1		С	20/1	#12 AWG	1080	"	54
55	OFFICE 186/187	1260	#12 AWG	20/1	A		20/1	#12 AWG	1080	11	56
57	OFFICE 188/189	1260	#12 AWG	20/1		В	20/1	#12 AWG	1080	11	58
59	TIME CLOCK	500	#12 AWG	20/1		С	20/1	#12 AWG	360	PATIO ALT #3	60
CONNECT	red load = 86164 va			PHASE A =	= 31	1752 \	Ά	PHASE B = 27352 VA		PHASE C = 27060 VA	

CKT #	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	ABC	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT #
2	IT -190 RACEWAY A	1080	#12 AWG	20/1*	A	20/1	#12 AWG	1400	COPY MACHINE 130	1
4	"	1080	#12 AWG	20/1*	В	20/1	#12 AWG	900	STORAGE 129	3
6	IT -190 RACEWAY B	1080	#12 AWG	20/1*	С	20/1	#12 AWG	360	STORAGE 133	5
8	"	1080	#12 AWG	20/1*	A	20/1*	#12 AWG	360	IT-190 RECP	7
10	SPARE	-	-	20/1	В	20/1*	#12 AWG	900	IT-190 RECP	9
12	SPARE	-	-	20/1	С	20/1*	#12 AWG	900	IT-190 RECP	11
14	SPARE	-	-	20/1	A	20/1	-	-	SPARE	13
16	SPACE				В				SPACE	15
18	SPACE				С				SPACE	17
20	SPACE				A				SPACE	19
22	SPACE				В				SPACE	21
24	SPACE				С				SPACE	23

NOTE #1: * DENOTES NEW CIRCUIT EXISTING BREAKER TO REMIAN.

NOTE #1 : CBA = COLOR BY ARCHITECT

225 AMP, M.C.B, 120/208 V, 3PH, 4W, S/N, SURFACE, NEMA 1, 22 KAIC

PANEL 'SDP '

CKT #	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	ABC	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT #
	EXISTING	118966	PER ONE-LINE		A		PER ONE-LINE	18860	XFMR T-B	
1	PANEL 'MDP'	120737	PER ONE-LINE	400/3	В	110/3	PER ONE-LINE	16440	75KVA	2
		117561	PER ONE-LINE		С		PER ONE-LINE	12380	PANEL 'B'	
	EXISTING	21334	PER ONE-LINE		A					
3	XFMR - PNL 'MP'	24050	PER ONE-LINE	225/3	В				SPACE	4
		27124	PER ONE-LINE		С					
	XFMR T-C	31752	PER ONE-LINE		A					
5	75KVA	27352	PER ONE-LINE	110/3	В				SPACE	6
	PANEL 'C'	27060	PER ONE-LINE		С					
	-	-	-	-	A		PER ONE-LINE	-		
7	-	-	-	-	В	60/3	PER ONE-LINE	-	SPD	8
	-	-	-	-	С		PER ONE-LINE	-		
CONNEC	CTED LOAD = 563616 VA			PHASE A =	190912	VA	PHASE B = 188579 VA		PHASE C = 184125 VA	

PANEL ' MDP ' EXISTING CKT # LOAD SERVED LOAD CONDUIT & WIRE SIZE 1 SPACE 3 SPACE 5 SPACE 7 RTU-2 12800 #4 AWG 9 12800 #4 AWG 11 12800 #4 AWG 13 RTU-4 9418 #8 AWG 15 ... 9418 #8 AWG 17 9418 #8 AWG 19 RTU-6 9418 #8 AWG 21 " 9418 #8 AWG 23 9418 #8 AWG 25 RTU-8 12800 #4 AWG 27 12800 #4 AWG 29 12800 #4 AWG 31 RTU-3 #4 AWG 12800 33 12800 #4 AWG 35 " 12800 #4 AWG 37 SPACE 39 SPACE 41 SPACE

EXISTING

CONNECTED LOAD = 357939 VA

NOTE #1: (A) DENOTES NEW CIRCUIT AND BREAK NOTE #1: (B) DENOTES NEW CIRCUIT WITH EXISTING BREAKER 800 AMP, M.L.O, 277/480 V, 3□, 4W, S/N, SURFACE, NEMA 1, 35 KAIC

400 AMP, M.L.O., 277/480 V, 3 , 4W, S/N, SURFACE, NEMA 1, 22 KAIC

BKR SIZE	A	в	С	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT #
	A			20/1	#12 AWG	3294	LIGHTS PHASE 1	2
		в		20/1 B	#12 AWG	3879	LIGHTS PHASE 3	4
			С		#8 AWG	9418	RTU-1	6
	A			40/3	#8 AWG	9418	"	8
60/3		в			#8 AWG	9418	"	10
			С		#4 AWG	12800	RTU-5	12
	A			60/3	#4 AWG	12800	"	14
40/3		в			#4 AWG	12800	"	16
			С		#8 AWG	9418	RTU-9	18
	A			40/3	#8 AWG	9418	"	20
40/3		в			#8 AWG	9418	"	22
			С		#6 AWG	12800	RTU-7	24
	A			50/3	#6 AWG	12800	"	26
60/3		в			#6 AWG	12800	"	28
			С		#4 AWG	12800	RTU-10	30
	A			60/3	#4 AWG	12800	"	32
60/3		в			#4 AWG	12800	"	34
			С	20/1	#12 AWG	500	RR-LIGHTS	36
	A			20/1	#12 AWG	1200	FRONT SIGN	38
		В		20/1	#12 AWG	3061	LIGHTS PHASE 2	40
			С	20/1	#12 AWG	2589	LIGHTS PHASE 2	42
PHASE A =	PHASE A = 118966 VA			VA	PHASE B = 121412 VA		PHASE C = 117561 VA	

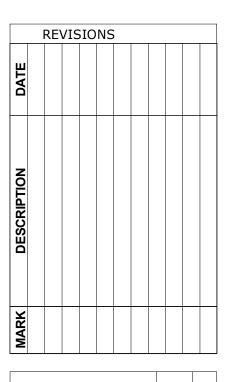
× **] JOHN A. RODRIGUEZ III 90273 90273 No 4 CENSER NONAL ENGLISH NONAL ENGLISH NONAL ENGLISH NONAL ENGLISH 90273 01/24/2025

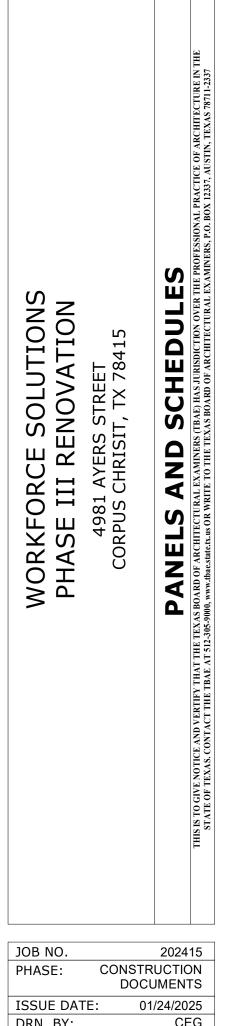
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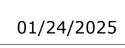
architects & associates 615 N. Upper Broadway Suite 1250 Corpus Christi, TX 78401-0750





DRN. BY: CEG CKD. BY: JAR





SYMBOL B-2	ELECTRICAL LEGEND DTE: NOT ALL SYMBOLS MAY APPLY TO THIS JOB! DESCRIPTION	THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND DISM POWER USED FOR CONSTRUCTION AND ALL COSTS INCURRED AS A RESULT OF TH ALL TEMPORARY ELECTRICAL SERVICE WORK WITH LOCAL UTILITY COMPANY PRIO
D-2	HOMERUN TO CIRCUIT AND PANEL INDICATED	WORK UNDER THIS CONTRACT INCLUDES MODIFICATIONS TO ANY EXISTING ELECT
-	NEUTRAL CONDUCTOR	PROVIDING NEW MATERIALS, DEVICES, AND ACCESSORIES NECESSARY FOR A CON ELECTRICAL SYSTEM. THE WORK ALSO INCLUDES FINAL CONNECTIONS TO FOOD S
+	HOT CONDUCTOR	PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND NA CODES, ALL LOCAL APPLICABLE ORDINANCES AND LAWS, AS WELL AS, SUBJECT TO
2	GROUNDING CONDUCTOR	THE INTENT OF THESE DRAWINGS ARE TO INDICATE THE GENERAL EXTENT OF WO
\rightarrow	TRAVELER	PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING DEVICES, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR
	SWITCH LEG	PROVIDE ALL DEVICE ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FA OPERATION OF ALL SYSTEMS AND THEIR ASSOCIATED EQUIPMENT AS INDICATED E
\$	TOGGLE SWITCH - 120/277V, 20A	
\$ 3	THREEWAY SWITCH - 120/277V, 20A	COORDINATE WITH THE WORK OF ALL OTHER SECTIONS. VERIFY ALL EXISTING CO REFER TO ARCHITECTURAL PLANS, AS WELL AS, KITCHEN EQUIPMENT PLANS FOR
\$4	FOURWAY SWITCH - 120/277V, 20A	REGARDING RELATED EQUIPMENT, CASEWORK, AND ELECTRICAL CONNECTIONS R COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA, O
\$ _D	DIMMER SWITCH - REFER TO LTG CONTROL	AND ALL APPLICABLE LAWS IN EFFECT AT THE TIME OF THIS PROPOSAL. IN THE CA THE STRICTER INTERPRETATION SHALL TAKE PRECEDENCE. ALL MATERIALS USED
τ-	FOR ADDITIONAL INFORMATION	SHALL CONFORM TO THE STANDARDS ESTABLISHED BY THE UNDERWRITER'S LABO
\$к	KEY SWITCH - 120/277V, 20A	VERIFY VOLTAGE DROPS, A.I.C. RATINGS FOR ALL EQUIPMENT CONNECTED, AND V CIRCUIT BREAKERS, CONDUIT, ETC. PRIOR TO INSTALLATION.
\$м	MOTOR RATED SWITCH	ROOF PENETRATIONS SHALL COMPLY WITH SMACNA, NRCA STANDARDS, AS WELL
+ ···		OF THE OWNER AND ROOF METHODS AND MATERIALS WARRANTY. SUB-CONTRAC WORK TO AN ENTITY APPROVED FOR USE BY THE OWNER AND ROOF MANUFACTUR
	FER TO LIGHTING PLAN FOR ADDITIONAL LOW	PANELBOARDS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST A
		STANDARDS. BUSSING SHALL BE COPPER WITH SILVER PLATING. PROVIDE SOLID
\ominus	DUPLEX RECEPTACLE - 125V,20A,1P	DISCONNECT SWITCHES: SHALL BE HEAVY-DUTY TYPE AS MANUFACTURED BY SQL OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE 125V,20A,1P	APPLICABLE U.L. AND NEMA STANDARDS. DO NOT MOUNT DISCONNECT SWITCHES TO BE COORDINATED WITH MECHANICAL CONTRACTOR.
Ø	ISOLATED GROUND RECEPTACLE - 125V,20A,1P	TRANSFORMERS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMEN ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST A
, –	SINGLE RECEPTACLE - 250V, AMPS	STANDARDS.
\oplus	PER PANEL SCHEDULE	CIRCUIT BREAKERS: THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, BOLT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMM
—	QUADRAPLEX RECEPTACLE - 125V,20A,1P	USED AS A SWITCH FOR 120 VOLT LIGHTING CIRCUITS SHALL BE APPROVED FOR TH "SWD". BREAKERS USED FOR PROTECTING HVAC EQUIPMENT SHALL BE RATED 'HA
\$	ISOLATED GROUND QUADRAPLEX RECEPTACLE - 125V.20A.1P	SURGE PROTECTION DEVICE (SPD): SPDS SHALL BE UL1449 4TH EDITION LISTED AI SQUARE D, EATON OR SIEMENS. SPDs SHALL HAVE STANDARD 7-MODE PROTECTION
\rightarrow	- , - ,	& INTERMEDIATE DISTRIBUTION UNITS SHALL BE UL LABELED WITH 20KA I-NOMINAL
-	SINGLE RECEPTACLE - 125V,20A,1P	SURGE CURRENT CAPABILITY FOR SERVICE ENTRANCE DEVICES SHALL BE 300kA F 200kA PER PHASE FOR INTERMEDIATE DISTRIBUTION OR ROOF MOUNTED BRANCH
\odot	DUPLEX RECEPTACLE - 125V,20A,1P (FLOOR MOUNTED)	BRANCH PANELS. SPDs SHALL BE EXTERNAL TO EQUIPMENT UNLESS NOTED OTHE
J	JUNCTION BOX, SIZED PER N.E.C.	CABINETS: SHALL BE ONE PIECE CODE GAGE GALVANIZED STEEL WITH MOUNTING AMPLE SIZE AND KNOCKOUTS FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BA
	COMBO RECEPT. & USB CHARGING DEVICE	CONDUCTIVE COPPER, ALUMINUM, OR COPPER-CLAD ALUMINUM. FRONTS SHALL E FURNITURE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS
	HUBBELL #USB20AC5	PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CABINET.
▼	TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING	GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC C
$\mathbf{\nabla}$	DATA/TELEPHONE OUTLET BOX WITH CONDUIT	CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTI GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYP
	TO ACCESSIBLE LOCATION ABOVE CEILING DATA OUTLET BOX WITH CONDUIT TO	FOR GROUNDING. WHERE GROUNDING CONDUCTORS ARE ENCLOSED IN CONDUIT OF A TYPE WHICH GROUND BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FL
\bigtriangledown	ACCESSIBLE LOCATION ABOVE CEILING	CONDUIT SHALL INCLUDE A GROUND WIRE SIZE IN ACCORDANCE WITH NEC TABLE
TV	TELEVISION OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING	CONDUIT: SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF COND MINIMUM OF 24" BELOW GRADE. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID ST
(S)	SPEAKER	GRADE, MINIMUM SIZE 3/4". PROVIDE RIGID STEEL ELBOWS WHEN UNDERGROUND FLOOR SLAB. PROVIDE ELECTRICAL METALLIC TUBING (EMT) MEETING FSW-C563, A
(3) (>	PUSHBUTTON	FLEXIBLE CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR LOCATIONS. EMT CONI 2" AND SMALLER SHALL BE COMPRESSION TYPE. CLAMP CONDUIT TO BOXES WITH
HB		AND LOCKNUT OUTSIDE.
ПD	HOLD UP BUTTON	 RIGID STEEL CONDUIT: ANSI C80.1 INTERMEDIATE STEEL CONDUIT: UL 1242
AC	ABOVE COUNTER	3. ELECTRICAL METALLIC TUBING AND FITTINGS: ANSI C80.3
WP	WEATHER PROOF	4. FLEXIBLE METAL CONDUIT: ZINC COATED STEEL.
EWC	ELECTRIC WATER COOLER	5. LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS: UL 360. FITTINGS TO APPROVED FOR USE WITH THIS RACEWAY.
EWH	ELECTRIC WATER HEATER	6. MC CABLE IS APPROVED FOR INSTALLATION ONLY AT THE END OF A RIGID CO
E.C.	ELECTRICAL CONTRACTOR	TO ORIGINATE FROM AN APPROVED JUNCTION BOX AND FEED DIRECTLY DOW CONDUCTORS: INSULATED SOFT ANNEALED 98% PURE COPPER WITH COLOR COD
NL	NIGHT LIGHT - ON 24 HOURS	TO BE SOLID OR STRANDED, #10 AND LARGER TO BE STRANDED, MINIMUM #12, UNL
RCP	CIRCULATION PUMP	ALL EQUIPMENT TO BE PROVIDED WITH CU/AL 75° DEGREE C. TERMINAL LUGS. CON INSULATION MAY NOT BE USED UNDERGROUND AT SERVICE ENTRANCES, OUTSIDE
	120V, 1P EQUIPMENT CONNECTION	INSULATION TO BE RATED FOR 90° DEGREE C OR 600 VOLT AND TYPES AS FOLLOW
	240V, 1P EQUIPMENT CONNECTION	BRANCH CIRCUITS THHN, THWN2
Ŏ	240V, 3P EQUIPMENT CONNECTION	FEEDERS THWN2
	208V, 1P EQUIPMENT CONNECTION	SERVICE ENTRANCE THWN2, XHHW, >
	208V, 3P EQUIPMENT CONNECTION	DEVICES & COVERPLATES:
\bigcirc	277V, 1P EQUIPMENT CONNECTION	PUBLIC AREAS:
\bigcirc	480V, 3P EQUIPMENT CONNECTION	ALL DEVICES AND COVERPLATES SHALL BE STAINLESS STEEL. STANDARD DUPLEX GROUNDING TYPE, 20 AMP, NEMA 5-20R, SIDE OR BACK WIRED.
	480V, 1P EQUIPMENT CONNECTION	SINGLE RECEPTACLE: 15 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH N 5-15R. HUBBELL #5251-#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).
\bigcirc		DUPLEX RECEPTACLE: 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH
	DISCONNECT SWITCH - SIZE AND POLE AS NOTED	5-20R. HUBBELL #5342-#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).
	COMBINATION STARTER/DISCONNECT	GROUND-FAULT INTERRUPTER RECEPTACLE: 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, G NEMA CONFIGURATION 5-20R, FEED-THRU TYPE CAPABLE OF PROTECTING CONNEC
	SWITCH	RECEPTACLES. UL RATED CLASS A, GROUP 1, SOLID STATE GROUND-FAULT SENSI GROUND-FAULT TRIP LEVEL. HUBBELL #1G5362#. (DEVICE COLOR IS DEPENDENT (
\boxtimes	STARTER	BUILDING).
\$м		WEATHERPROOF RECEPTACLE: SHALL BE A GROUND-FAULT INTERRUPTER WITH S GASKETED LIDS AND PLATE. PLATE TO CONSIST OF TWO SPRING LOADED LIDS HIN
888	PANELBOARD AS SPECIFIED	PLUG FILLERS: PROVIDE FLUSH RECEPTACLE COVERS AT ALL DUPLEX RECEPTACI
\overline{Q}	EXHAUST FAN	COLOR OF FILLERS TO MATCH COLOR OF RECEPTACLE AND COVERPLATE.
	EXHAUST FAN SECURITY PANEL	COLOR OF FILLERS TO MATCH COLOR OF RECEPTACLE AND COVERPLATE. <u>LIGHTING FIXTURES: ALL LIGHTING FIXTURES AND ASSOCIATED LAMPS AND BALLA</u> AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
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TH NEMA CONFIGURATION

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SINGLE-POLE. <u>OT INTEGRAL WITH TOGGLE</u> JBBELL #HBL 1221PL.

MELAMINE ITH 1/2" HIGH NG. NAMEPLATE **NLESS STEEL** MATERIAL.

IT COLORED, CONTINUOUS-PRINTED /IDE x 4 MILS THICK. PROVIDE OF SERVICE FOR BURIED CABLE ADHESIVE, WRAP-AROUND TYPE E WITH CLEAR PLASTIC SELF-



CONTRACTOR SHALL CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING DRAWINGS AND PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS.

- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES ABOVE THE CEILING TO PROVIDE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.
- VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO COMMENCING ANY WORK.
- ALL EQUIPMENT (RECEPTACLES, DISC. SWITCHES, ETC.) SHALL BE WEATHERPROOF.
- ALL FUSES FOR HVAC UNITS SHALL BE SIZED AS REQUIRED BY MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITING, TIME DELAY BUSSMAN FRN-R OR EQUAL BY GOULD SHAWMUT.
- ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
- REFER TO HVAC DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING FANS, MOTORS, ETC. AS INDICATED ON THE HVAC DRAWINGS.
- ALL DEVICES INSTALLED ON ROOF TOP EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING, CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

LIGHTING CONTROL NARRATIVE:

- OCCUPANT SENSOR CONTROLS SHALL BE UTILIZED THROUGHOUT FOR INTERIOR LIGHTING CONTROL, EXCEPT IN AREAS FOR WHICH EXCEPTIONS APPLY.
- NO DAYLIGHT RESPONSIVE CONTROLS ARE REQUIRED DUE TO THE FACT THAT NO ZONE MEETS THE MINIMUM REQUIREMENT OF 150WATTS PER ZONE.
- EXTERIOR LIGHTING WILL BE CONTROLLED VIA TIME CLOCK AND PHOTOCELL. REDUCED LIGHTING POWER DENSITY (IECC C406.3) METHOD WILL BE UTILIZED TO SATISFY THE ADDITIONAL EFFICIENCY PACKAGE OPTION IN IECC C406.

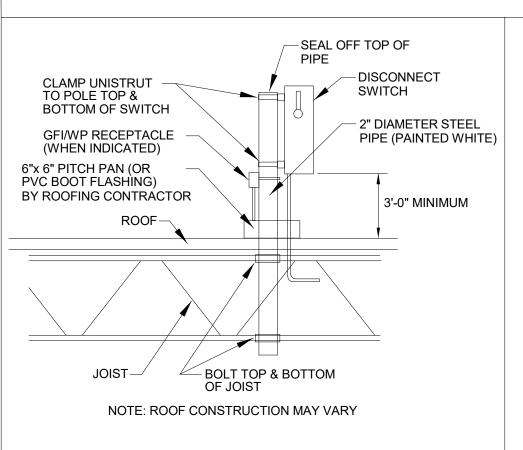
LIGHTING SYSTEM CONTROLS FUNCTIONAL TESTING (IECC C408.3):

UNDER 2015 IECC, LIGHTING SYSTEM CONTROLS TESTING IS REQUIRED FOR ALL COMMERCIAL PROJECTS. A LETTER FROM THE THIRD PARTY REGISTERED DESIGN PROFESSIONAL OR COMMISSIONING AGENT THAT FOLLOWS THE REQUIREMENT IN C408.3.1 WILL FULFILL THIS REQUIREMENT. THIS INCLUDES IN PARTICULAR:

(A) OCCUPANT SENSOR CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.1 (B) TIME SWITCH CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.2

(C) DAYLIGHT RESPONSIVE CONTROLS, WHERE APPLICABLE C405.2.3

(D) SPECIFIC APPLICATION CONTROLS, WHERE APPLICABLE C405.2.4 (DISPLAY LIGHTING, ETC.) (E) EXTERIOR LIGHTING CONTROLS, WHERE APPLICABLE C405.2.5



DISCONNECT MOUNTING DETAIL NOT TO SCALE

SWITCHED Н ____ AC BALLAST EMERGENCY BALLAST L_____ _____ AC. BALLAST EMERGENCY BALLAST L_____ NIGHT LIGHTS (UNSWITCHED)

EMERGENCY BALLAST WIRING 5 NOT TO SCALE

