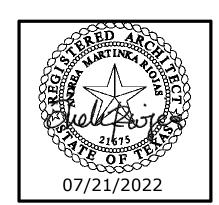
PHASE II RENOVATION

WORKFORCE SOLUTIONS 4981 AYERS STREET CORPUS CHRISTI, TX 78415



CONSTRUCTION DOCUMENTS 07/21/2022

Garza + McLain Structural Engineers, Inc. 13313 Southwest Freeway, Suite 163

13313 Southwest Freeway, Suite 163 Sugar Land, Texas 77478 Office: 281-494-1230 Fax: 281-494-1234 www.garza-mclain.com

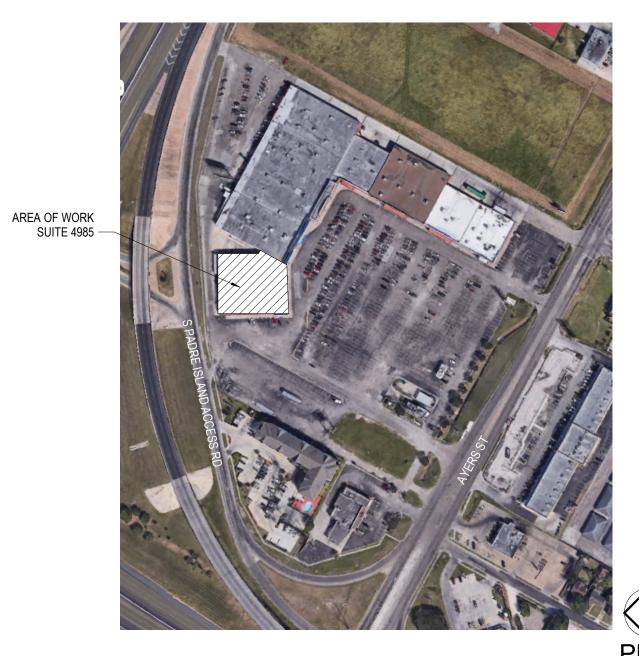


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P200	PLUMBING SCHEDULES AND DETAILS		07/21/2022

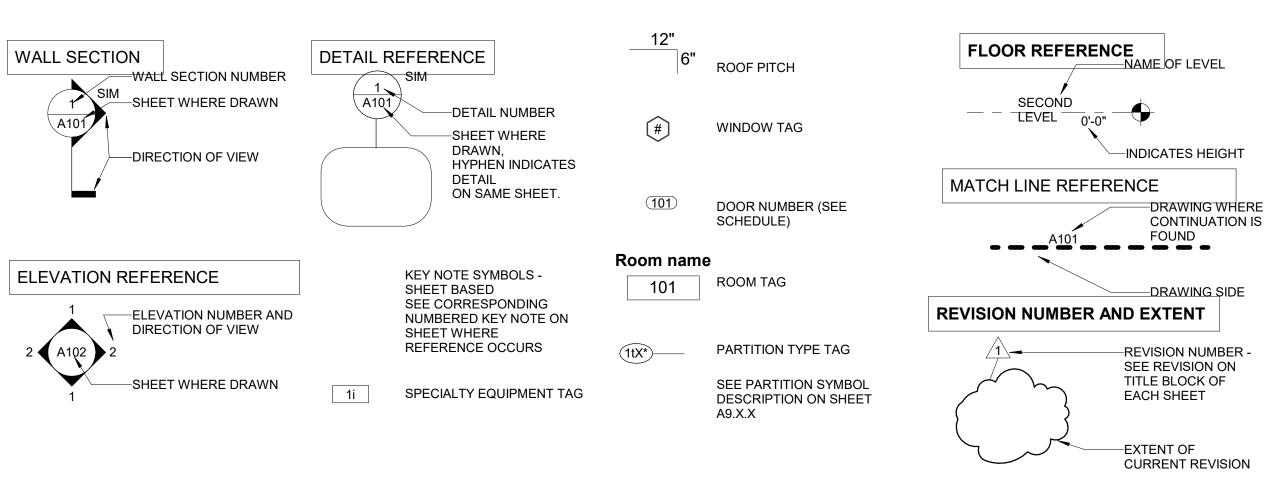


SITE PLAN

PLAN NORTH

			JMMARY	
APPLICABLE CODES & REGULA	ATIONS:	LOCA	AL ORDINANCE	<u>:S:</u>
2015 ICC INTERNATIONAL BUILDING COD	E			
2015 ICC EXISTING BUILDING CODE				
2015 ICC ENERGY CONSERVATION CODE	<u> </u>			
2015 ICC INTERNATIONAL FIRE CODE				
2015 ICC FUEL GAS CODE				
2015 ICC MECHANICAL CODE				
2015 ICC PLUMBING CODE				
2017 NFPA NATIONAL ELECTRIC CODE				
2012 TEXAS ACCESSIBILITY STANDARDS				
AMERICANS WITH DISABILITIES ACT, TITL	E III			
PROJECT SQUARE FOOTAGE:				
RENOVATION: 9,460 SF				
OCCUPANCY & AREA	DETERMIN	NATION	REFERENCE	
OCCUPANCY TYPE:	B, A, S-1		IBC SECTION 304	.1
OCCUPANT LOAD:	311		IBC 2012 TABLE 1	004.1.2
CONSTRUCTION TYPE:	TYPE II-B		IBC CH. 6	
ALLOWABLE FLOOR AREA:	?		IBC CH. 5	
FIDE DECISTANCE COUEDIN E.				
FIRE RESISTANCE SCHEDULE:			IBC TABLE 601	TX ADMIN CODE CH
FLOOR CONSTRUCTION:	0HR			135
SECONDARY WF BEAMS/GIRDERS:	0HR			
SECONDARY TS COLUMN/TRUSS:	0HR		IBC TABLE 601	
ROOF CONSTRUCTION:	0 HR		IBO TABLE 001	•
SECONDARY WF BEAMS/GIRDERS:	0 HR			
SECONDARY TS COLUMN/TRUSS:	0 HR		•	
INTERIOR RATED WALLS:	N/A		ULU419	
<u>LIFE SAFETY</u>			IBC 903.2.6, IFC 1	103.5
FIRE SPRINKLER SYSTEM:	YES		IBC 903.2.0, IFC 1	103.3

REFERENCE SYMBOLS & TAGS

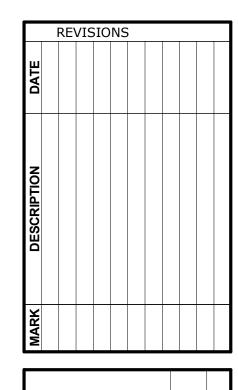


INFO - ABBREVIATIONS

#	POUND OR NUMBER	JAN	JANITOR
&	AND	JT	JOINT
•	AT ACCULATIO OF ILINO TILE	JNT.	JOINT
	ACOUSTIC CEILING TILE ADMINISTRATION OR ADMINISTRATOR	LAM LF.	LAMINATE LEFT
	ABOVE FINISH FLOOR	LF.	LOW
	ABOVE FINISHED FLOOR	MAX	MAXIMUM
	ABOVE FINISH GRADE	MCJ	MASONRY CONTROL JOINT
	ABOVE FINISHED GRADE	MECH	MECHANICAL
	ALUMINUM		MEMBRANE
	ALUMINUM	MFG	MANUFACTURER
	ANODIZED		MANUFACTURER
	ASSISTANT BOARD	MIN MTD	MINIMUM MOUNTED
	BUILDING	MTG	MOUNTING
	BOTTOM OF	MTL	METAL
	BOTTOM	N.A.	NOT APPLICABLE
	CONTRACTOR FURNISHED	N.I.C.	NOT IN CONTRACT
	CEMENT FIBER BOARD	NO	NUMBER
	CORNER GUARD	O.C.	ON CENTER
	CONTRACTOR INSTALLED CAST IN PLACE	OFCI OH	OWNER FURNISHED CONTRACTOR INSTAL OPPOSITE HAND
	CONTROL JOINT		OPPOSITE HAND
	CENTER LINE	OZ.	OUNCE
	CEILING	PLAM	PLASTIC LAMINATE
-	CLEAR	PCC	PRE-CAST CONCRETE
	CLOSET		PLUMBING
	CONCRETE MASONRY UNIT	PLWD.	PLYWOOD
	CONCRETE MASONRY UNIT	PNT	PAINT, OR PAINTED
	CONTINUOUS COLUMN	PSI PT.	POUNDS PER SQUARE INCH PRESSURE TREATED
	CORRIDOR	PVC	POLYVINYL CHLORIDE
	CORRIDOR	PWR	POWER
	CONCRETE	RBR.	RUBBER
	CONFERENCE	RCP	REFLECTED CEILING PLAN
	CONTINUOUS	RD	ROOF DRAIN
-	CARPET	REFR	REFERENCE
CT DBL.	CERAMIC TILE DOUBLE	REF. RE:	REFERENCE REFERENCE
	DETAIL	REQ.	REQUIRE OR REQUIRED
	DEMOLISH OR DEMOLITION	RD.	ROOF DRAIN
_	DIAMETER	R.O.	ROUGH OPENING
	DISCONNECT	RM.	ROOM
DIM.	DIMENSION	RT.	RIGHT
DN	DOWN	SAT	SUSPENDED ACOUSTICAL TILE
	DOOR	SCHED	SCHEDULED STATIC DISSIPATIVE TILE
	DRAWING DRAWINGS	SF	SQUARE FOOT
EA	EACH	SHT	SHEET
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SIM	SIMILAR
	ELEVATION	SL	SLOPE
E.J.	EXPANSION JOINT	SO	STRUCTURAL OPENING
	ELECTRICAL	SPEC.	SPECIFICATION OR SPECIFIED
	ELEVATION	SPK. SQ FT	SPRINKLER OR SPEAKER
EPDM EQ.	ETHYLENE PROPYLENE DIENE M-CLASS (ROOFING) EQUAL	SS	SQUARE FEET SANITARY SEWER
EQMT.	EQUIPMENT	SSM	SOLID SURFACE MATERIAL
	EXISTING TO REMAIN	SSTL.	STAINLESS STEEL
	ELECTRIC WATER COOLER	STC	SOUND TRANSMISSION COEFFICIENT
	EXISTING		STRUCTURE, OR STRUCTURAL
	EXHAUST	STL	STEEL
	EXPOSED	SYS	SYSTEM
	EXTERIOR FIRE ALARM	VCT VWC	VINYL COMPOSITION TILE VINYL WALL COVERING
	FLOOR DRAIN		VERTICAL
	FIRE EXTINGUISHER CABINET	TBD	TO BE DETERMINED
F.F.	FINISH FLOOR		
	FURNITURE, FIXTURES, & EQUIPMENT	TELE	TELEPHONE
FIN	FINISHED FLOOR ELEVATION	T&G	TONGUE AND GROOVE
FL FLR.	FLOOR	THK.	THICKNESS OR THICK
	FLOOR FLUORESCENT	TLT. T.O.	TOILET TOP OF
F.O.	FACE OF	TOB	TOP OF BEAM
	FOOT, FEET, OR FLOOR TILE	T.O.C.	TOP OF CONCRETE
F.V.	FIELD VERIFY	TOJ	TOP OF JOIST
	GAUGE	TOP	TOP OF PARAPET
	GALVANIZED	TOR	TOP OF ROOF
	GROUND FAULT INTERUPTER GROUND	T.O.S. TPD.	TOP OF STEEL TOILET PAPER DISPENSER
	GYPSUM BOARD	TPD. T/D	TOILET PAPER DISPENSER TELEPHONE / DATA
GYP.	GYPSUM BOARD	TV	TELEVISION
H.C.	HOLLOW CORE	TYP	TYPICAL
HDW	HARDWARE	UNO	UNLESS NOTED OTHERWISE
H.M.	HOLLOW METAL	UON	UNLESS OTHERWISE NOTED
HR	HOUR	U/S	UNDERSIDE
HRS. HVAC	HOURS HEATING, VENTILATING, & AIR CONDITIONING	VCT VEST.	VINYL COMPOSITION TILE VESTIBULE
INSUL	INSULATION	VEST. V.I.F.	VERIFY IN FIELD
INT	INTERIOR	V.I.I . VP	VISION PANEL
IT	INFORMATION TECHNOLOGY	W/	WITH
		WB	WALL BASE
		WD.	WOOD WALL THE
		WT	WALL TILE

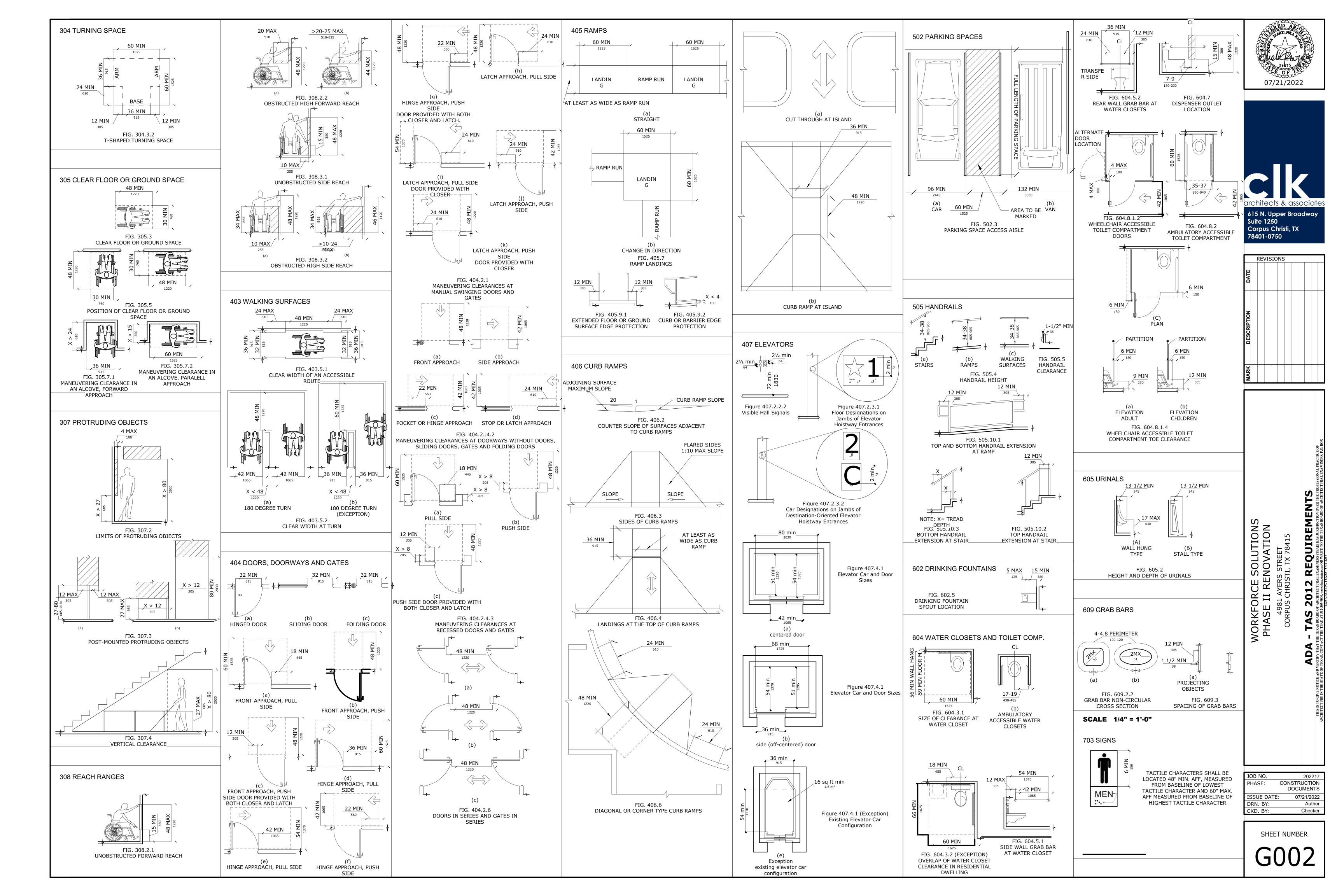


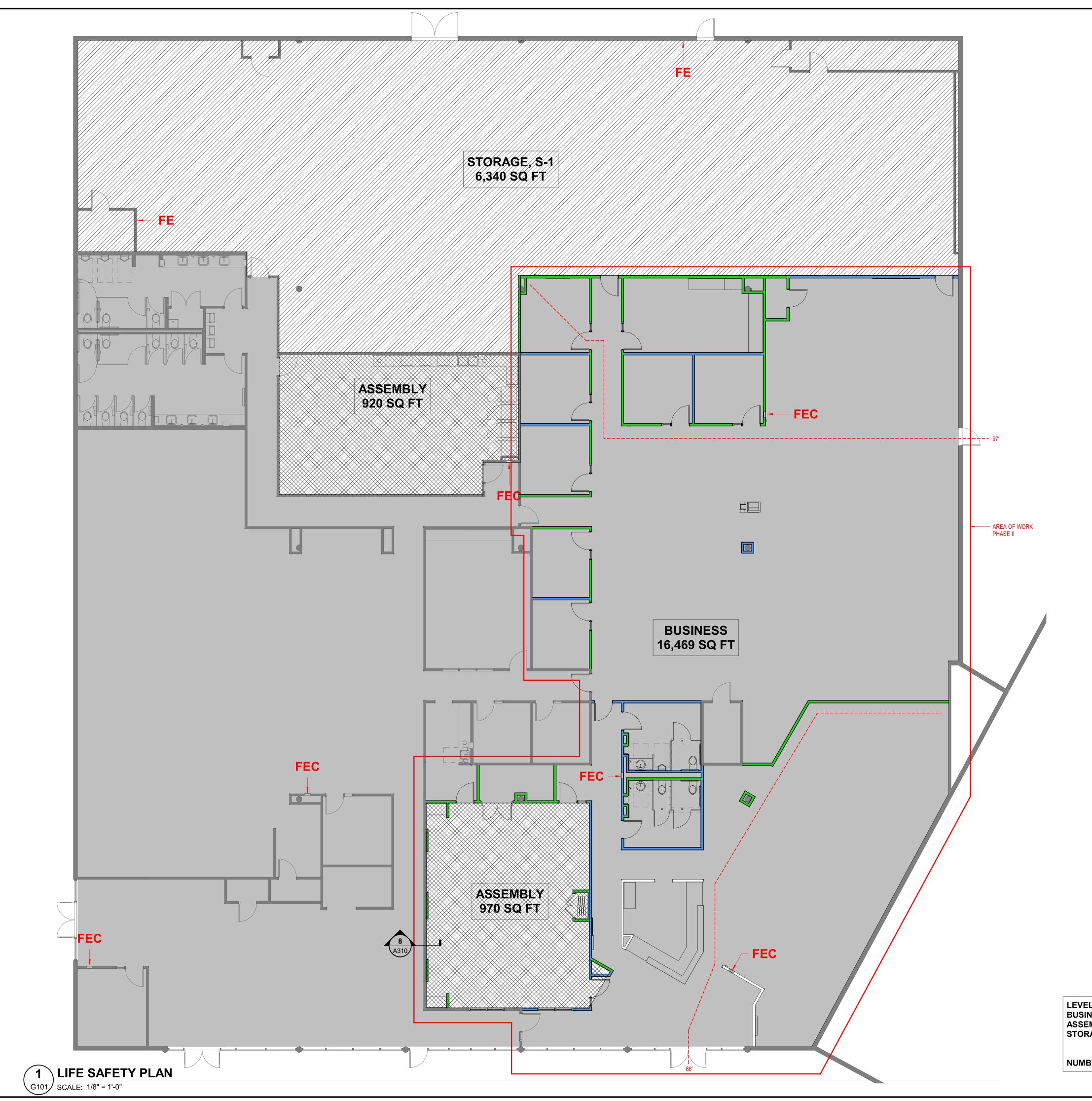




WORKFORCE SOLUTIONS
PHASE II RENOVATION
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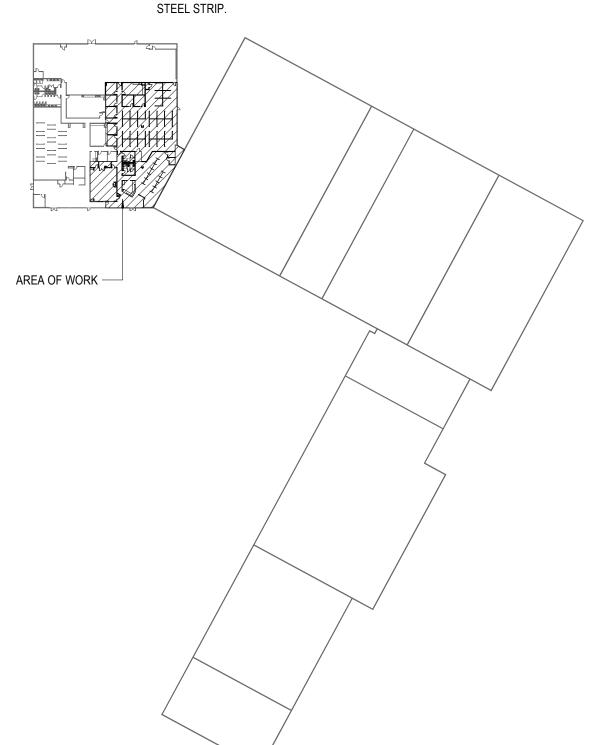
202217 CONSTRUCTION DOCUMENTS ISSUE DATE:





PROJECT GENERAL NOTES

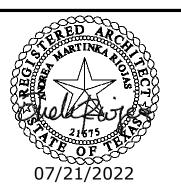
- REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
- 2. DO NOT SCALE THE DRAWING. IF DIMENSIONS ARE IN QUESTION. OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING.
- 3. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE 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.
- 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



BUILDING PLAN OVERALL

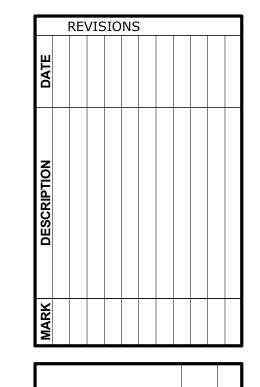
SCALE: 1" = 100'-0"

LEVEL 1:	AREA	NET	GROSS	NUMBER OF OCCUPANTS
BUSINESS AREA	16,469 SF	NO	YES	164
ASSEMBLY	1,890 SF	NO	YES	126
STORAGE, S-1	6,340 SF	NO	YES	21
			TOTAL:	311
NUMBER OF EXITS:	7			





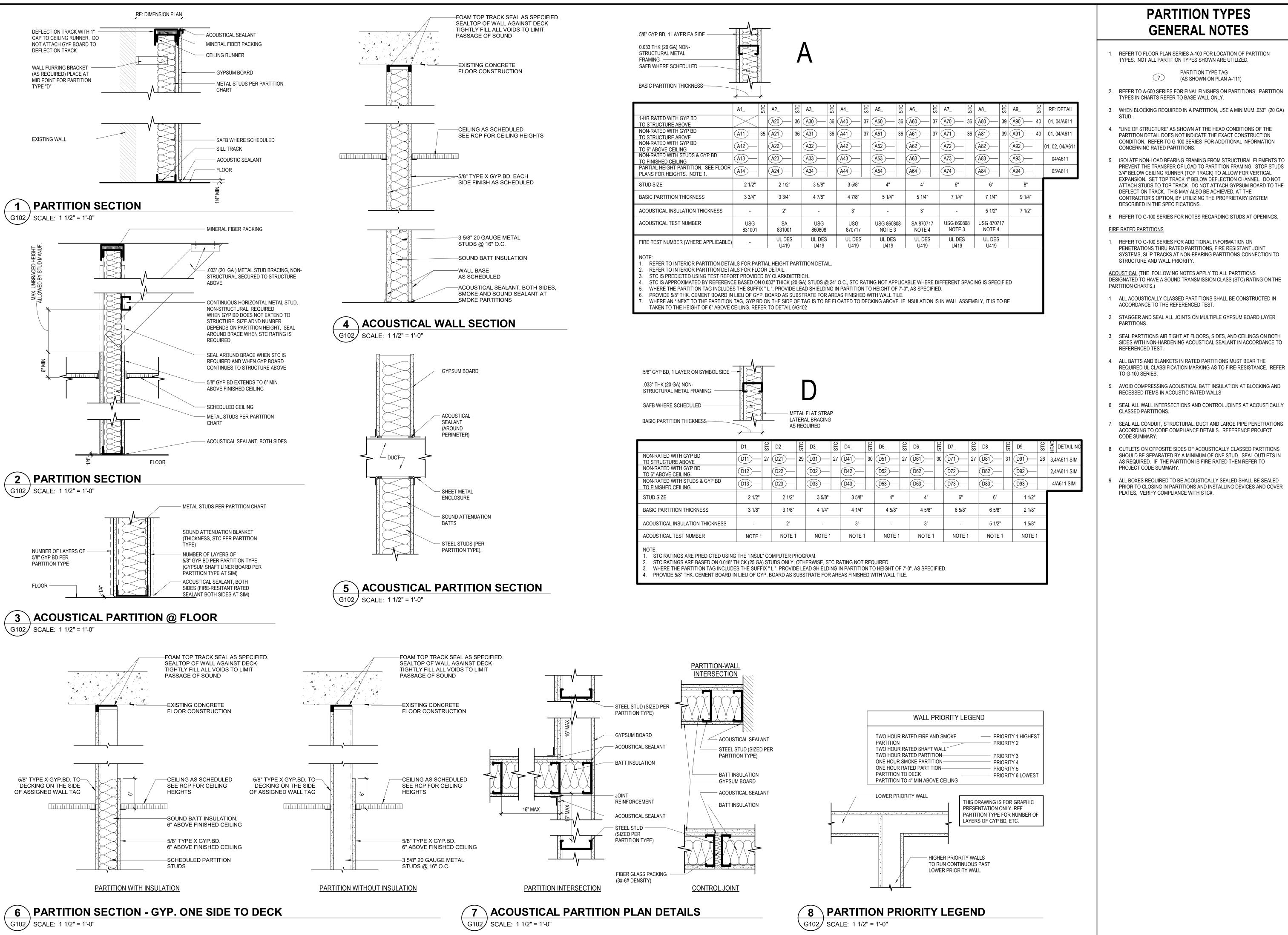
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STAYERS STREET
S CHRISTI, TX 78415

SAFETY PLANS

JOB NO. 202217
PHASE: CONSTRUCTION DOCUMENTS
ISSUE DATE: 07/21/2022
DRN. BY: AR
CKD. BY: AR



PARTITION TYPES GENERAL NOTES

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.

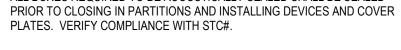
WHEN BLOCKING REQUIRED IN A PARTITION, USE A MINIMUM .033" (20 GA)

- 4. "LINE OF STRUCTURE" AS SHOWN AT THE HEAD CONDITIONS OF THE PARTITION DETAIL DOES NOT INDICATE THE EXACT CONSTRUCTION
- 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
- 6. REFER TO G-100 SERIES FOR NOTES REGARDING STUDS AT OPENINGS.

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.)

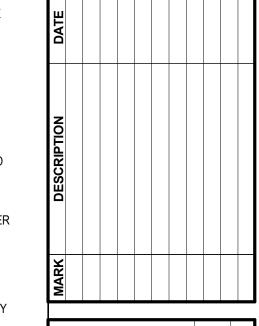
- 1. ALL ACOUSTICALLY CLASSED PARTITIONS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE REFERENCED TEST.
- . STAGGER AND SEAL ALL JOINTS ON MULTIPLE GYPSUM BOARD LAYER
- 3. SEAL PARTITIONS AIR TIGHT AT FLOORS, SIDES, AND CEILINGS ON BOTH SIDES WITH NON-HARDENING ACOUSTICAL SEALANT IN ACCORDANCE TO
- 4. ALL BATTS AND BLANKETS IN RATED PARTITIONS MUST BEAR THE
- TO G-100 SERIES. 5. AVOID COMPRESSING ACOUSTICAL BATT INSULATION AT BLOCKING AND
- 6. SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS AT ACOUSTICALLY
- 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.







615 N. Upper Broadway **Suite 1250** Corpus Christi, TX 78401-0750



REVISIONS

4981 AYERS S'CORPUS CHRISTI,

WORKFORCE SOLUTION PHASE II RENOVATION

CONSTRUCTION DOCUMENTS

07/21/2022

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PHASE:

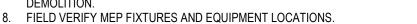
ISSUE DATE

DRN. BY:



DEMOLITION PLAN GENERAL NOTES

- IT IS THE INTENT OF THE DEMOLITION TO REMOVE ALL EXISTING CONSTRUCTION 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
- 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.







Corpus Christi, TX

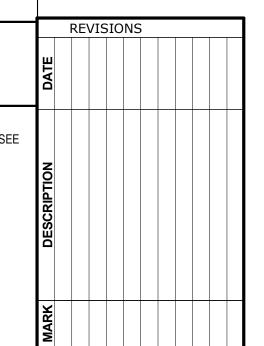
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DEMOLITION PLAN LEGEND

REMOVE EXISTING MILLWORK/PLUMBING/EQUIPMENT - SEE NOTES FOR RELOCATION OR DEMOLITION NOTES

REMOVE EXISTING PARTITION

REMOVE EXISTING DOOR



DEMOLITION PLAN KEY NOTES

- REMOVE PORTION OF EXISTING INTERIOR GYPSUM BOARD AND METAL STUD PARTITION. REFER TO RENOVATION PLANS FOR EXACT LOCATION.
- EXISTING FIRE EXTINGUISHER AND BRACKET SHALL BE REMOVED AND RELOCATED REFER TO SHEET A110 FOR DETAILS. CONTRACTOR TO ENSURE EXISTING EXTINGUISHER IS IN WORKING CONDITION AND MEETS TESTING REQUIREMENTS. BRACKET SHALL BE REMOVED.
- REMOVE PORTION OF EXISTING INTERIOR GYPSUM BOARD AND METAL STUD PARTITION FOR NEW WINDOW INSTALLATION. REFER TO RENOVATION PLANS FOR
- REPLACE EXISTING DAMAGED GYPSUM BD., ALL WALL PROTECTION AND WALL BASE SHALL BE REMOVED. PATCH AND REPAIR WALLS DUE TO NEW CONSTRUCTION. ALL
- WALLS SHALL BE RETEXTURED AND FINISHED AS SCHEDULED. REMOVE EXISTING VINYL FLOORING, WALL BASE AND ASSOCIATED TRIM. FLOAT ANI
- REPAIR EXISTING FLOOR TO PREP FOR NEW FLOORING. REMOVE PORTION OF EXISTING INTERIOR GYPSUM BOARD AND METAL STUD
- PARTITION FOR NEW DOOR INSTALLATION. REFER TO RENOVATION PLANS FOR EXACT LOCATION.
- EXISTING WALLS SHALL REQUIRE FLOAT, TEXTURE, AND PAINT TO STRUCTURE/CEILING TYPICAL. SEE REFERENCE PLAN AND RCP FOR DETAILS.

JOB NO.	202217
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CKD. BY:	AR



DEMOLITION RCP GENERAL NOTES

- IT IS THE INTENT OF THE DEMOLITION TO REMOVE ALL EXISTING CONSTRUCTION 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
- 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. 8. FIELD VERIFY MEP FIXTURES AND EQUIPMENT LOCATIONS.



Corpus Christi, TX

REVISIONS

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DEMOLITION RCP LEGEND

EXISTING WALL TO REMAIN

EXISTING WALL TO REMOVE

EXISTING SUSPENDED ACOUSTIC CEILING TO

EXISTING 2'X4' SUSPENDED LIGHT FIXTURE TO REMOVE

EXISTING 2'X4' LIGHT FIXTURE TO REMOVE

DEMOLITION RCP

KEY NOTES

1 REMOVE EXISTING LIGHT FIXTURES. EXISTING CEILING GRID AND TILES TO REMAIN. PATCH AND REPAIR TO ADD ON CEILING GRID AND TILES PER RENOVATION RCP.

WINDOW SHADES SHALL REMAIN. PROTECT DURING CONSTRUCTION.

EXISTING LIGHT FIXTURES TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR SWITCHING MODIFICATIONS. EXISTING MECHANICAL UNIT.

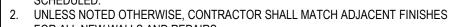
4981 AYERS STREET CORPUS CHRISTI, TX 78415

CONSTRUCTION DOCUMENTS ISSUE DATE: CKD. BY:



RENOVATION PLAN GENERAL NOTES

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 INSTALL NEW TILE AS SCHEDULED. FOR WALLS PATCH AND REPAIR TO RECEIVE NEW FINISH AS



- FOR ALL NEW WALLS AND REPAIRS. FIELD VERIFY DIMENSIONS BEFORE CABINETS ARE FABRICATED. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO FABRICATION.
- WALL TYPES NOT DESIGNATED SHALL MATCH EXISTING, ADJACENT WALL TYPE AND FINISHES. CONTRACTOR TO VERIFY WALL TYPES AND COORDINATE WITH ARCHITECT ANY DISCREPENCIES.
- HEIGHT OF CABINETS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP OF THE SINK RIM.
- CONTRACTOR SHALL PROVIDE FIRE TREATED IN-WALL BLOCKING AT NEW MILLWORK.
- PROVIDE POWER POLES. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- ALL NEW EXPOSED STRUCTURE, CONDUIT, AND MECHANICAL EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING BLACK FINISH.
- ALL CUBICLES AND WORKSTATIONS SHALL BE PROVIDED AND INSTALLED BY
- OWNER. POWER AND DATA REQUIREMENTS SHOWN ON MEP DRAWINGS.





Corpus Christi, TX

REVISIONS

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PARTITION TYPES LEGEND

<u>TAG</u> **DESCRIPTION** <u>GRAPHIC</u> (##0)

EXISTING PARTITION TO REMAIN 2 HOUR FIRE RATED PARTITION

1 HOUR FIRE RATED PARTITION SMOKE BARRIER (20 MIN FIRE RATED) SMOKE PARTITION (NON-RATED)

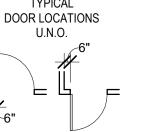
ACOUSTIC PARTITION (STC RATED AS SCHEDULED) PARTITION W/ GYP TO 6 IN. ABOVE CEILING PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING

PARTIAL HEIGHT PARTITION



EXISTING TO REMAIN. SEE FLOOR PLAN FOR KEYNOTE DESCRIPTION ON EXTERIOR WALLS.

NOTE: 1. SEE G SERIES FOR INTERIOR PARTITION TYPE DETAILS. 2. * DESIGNATES GYP TO STRUCTURE ONLY ON SIDE WHERE WALL TAG IS SHOWN. REFER TO DETAIL 6/G102 AND SHEET A111 DIMENSION PLAN FOR DETAILS. 3. *L DESIGNATES LEAD SHIELDING. SEE FLOOR PLAN FOR LEAD SHIELDING REQUIREMENTS.



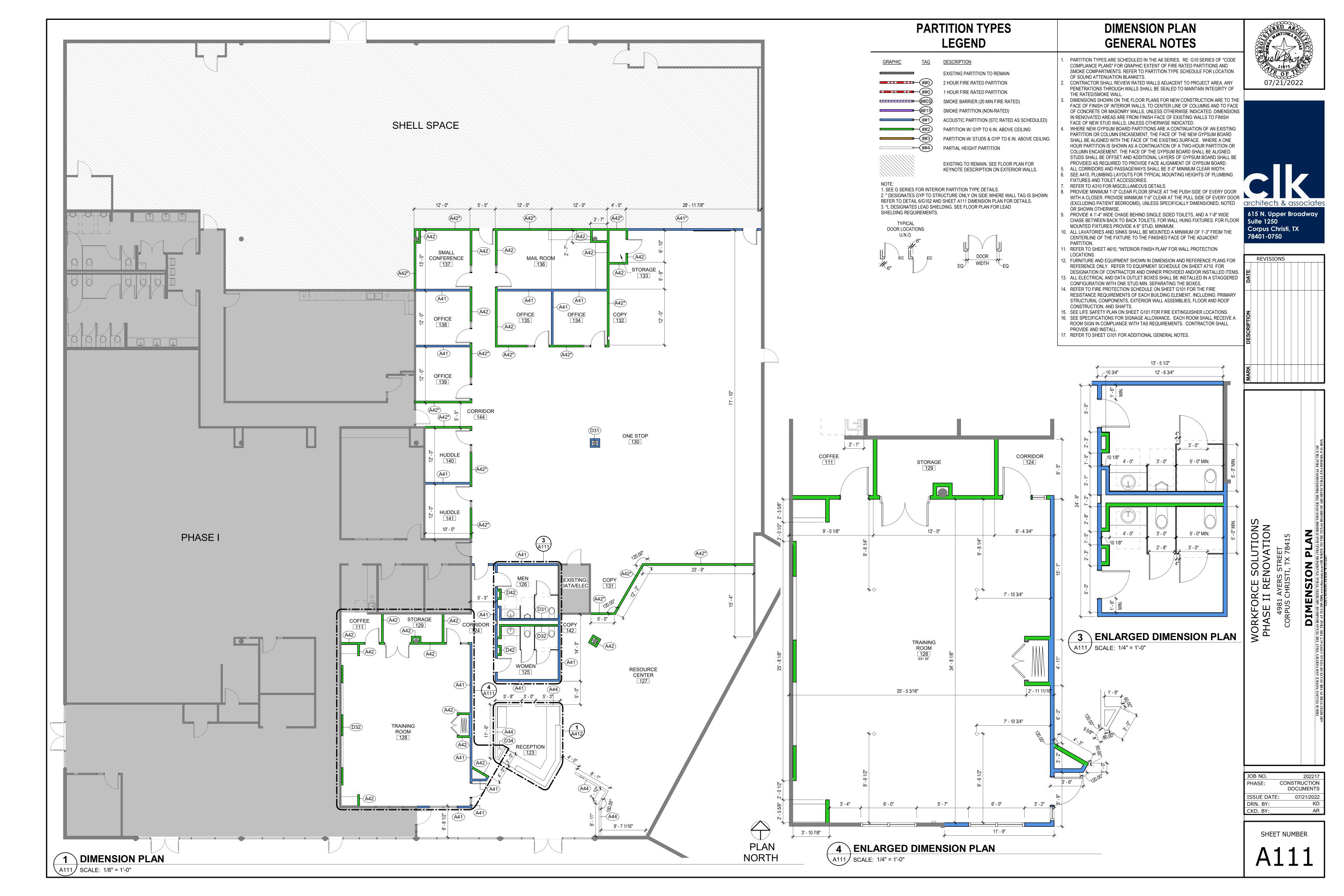
RENOVATION PLAN KEY NOTES

- PARTIAL HEIGHT WALL SHALL BE 7'-0" HIGH. PROVIDE STEEL TUBE SUPPORT PER STRUCTURAL DRAWINGS.
- PROVIDE AND INSTALL ROOM SIGNAGE. SIGNAGE SHALL BE MOUNTED IN COMPLIANCE WITH TAS REQUIREMENTS. REFER TO SHEET A810 FOR SIGNAGE

TYPES AND QUANTITY.

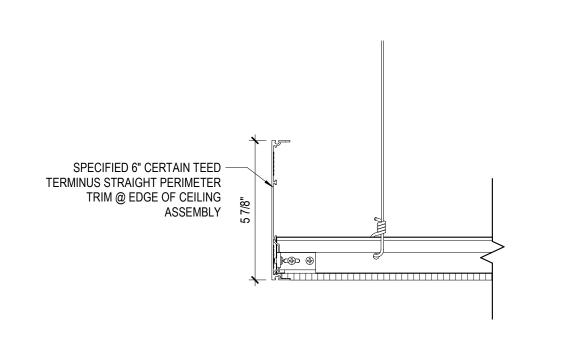
- PROVIDE IN-WALL BLOCKING. PARTIAL HEIGHT WALL SHALL BE 8'-0" HIGH. WOODEN SLATS SHALL STACK ON TOP OF WALL. REFER TO ELEVATIONS FOR DETAILS. PROVIDE STEEL TUBE SUPPORT PE STRUCTURAL DRAWINGS.
- PAINT EXISTING TOP OF STUDS AND CONDUIT BLACK TO BLEND IN WITH EXISTING BLACK WALL. BLACK FINISH SHALL START AT 13'-6" AFF.
- EXISTING GYPSUM BOARD SHALL BE PATCHED AND REPAIRED AT ALL DAMAGED
- AREAS OR WHERE MEP MODIFICATIONS ARE MADE. WALL SHALL BE RETEXTURED FOR A CONSISTENT FINISH. PAINT AS SCHEDULED. SEE SHEET A410 FOR TOILET ACCESSORY SCHEDULE AND MOUNTING LOCATIONS.
- CONTRACTOR SHALL PROVIDE IN-WALL BLOCKING FOR FUTURE TV INSTALLATION. PROVIDE HIGH AND LOW POWER AND DATA. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 9 PROVIDE 1" ALUMINUM BLIND.
- 10 PROVIDE RECESSED FIRE EXTINGUISHER CABINET AS SPECIFIED. CABINET SHALL BE INSTALLED SO THAT FIRE EXTINGUISHER HANDLE IS 42" AFF.
- 1 PROVIDE ACCESS CONTROL AS SPECIFIED. 12 SEE ELECTRICAL DRAWINGS FOR DETAILS OF DROP INTENDED FOR BADGE-IN,
- SECURITY, OR FUTURE USE. 13 DISABLE EXISTING THUMB TURN LOCK
- 14 PROVIDE FURRING CHANNEL WITH BATT INSULATION AND GYP. BD. FINISH AT BOTTOM PANEL OF STOREFRONT SYSTEM. NEW WALL FINISH SHALL ALIGN WITH EXISTING ADJACENT GYP. BD. WALL FINISH. SEE A510 FOR DETAIL INCLUDING ANCHOR PLATES AND ATTACHMENTS.
- 16 TOP SURFACE OF 7'-0" HIGH WALL SHALL HAVE GYPSUM ENCLOSURE.
- OPERABLE WALL AND DOUBLE DOORS AS SPECIFIED.
- 18 CONTRACTOR SHALL PROVIDE IN WALL BLOCKING FOR 85" TV. PROVIDE POWER AND DATA. SEE ELECTRICAL DRAWINGS FOR INSTALLATION HEIGHT. SEE INTERIOR ELEVATIONS FOR WALL FINISH DETAILS.
- 19 EXISTING WALLS SHALL REQUIRE FLOAT, TEXTURE, AND PAINT TO STRUCTURE/CEILING -TYPICAL. SEE REFERENCE PLAN AND RCP FOR DETAILS.
- NEW FLOORING SHALL MATCH EXISTING AS SCHEDULED. CONTRACTOR SHALL
- PROVIDE SEAMLESS LOOK IN NEW AND EXISTING PLANKS. 21 PROVIDE ACCESS CONTROL AS SPECIFIED.

202217 CONSTRUCTION PHASE: DOCUMENTS ISSUE DATE: 07/21/2022 DRN. BY: CKD. BY:



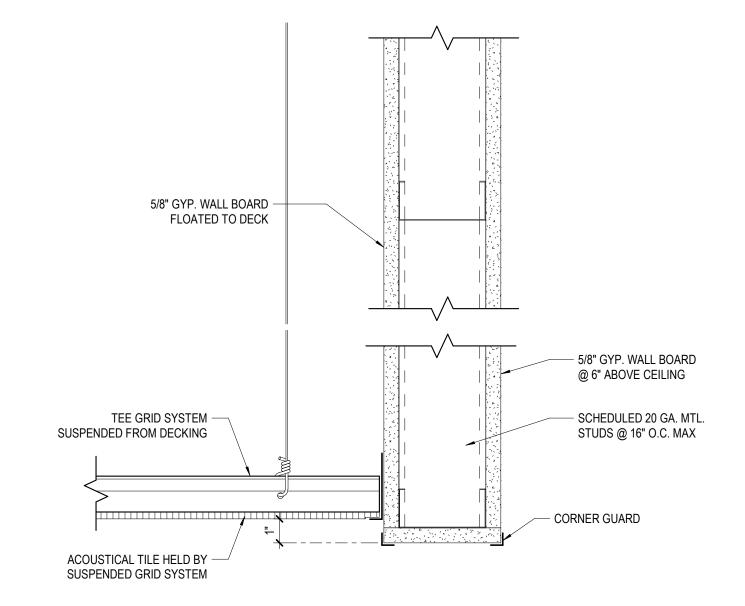


202217 CONSTRUCTION DOCUMENTS 07/21/2022



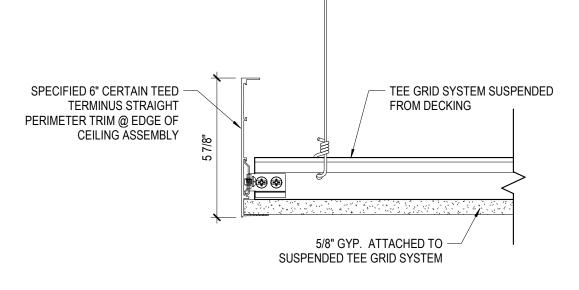
1 SECTION DETAIL - TRIM EDGE @ ACOUSTICAL PANELS

SCALE: 3" = 1'-0"



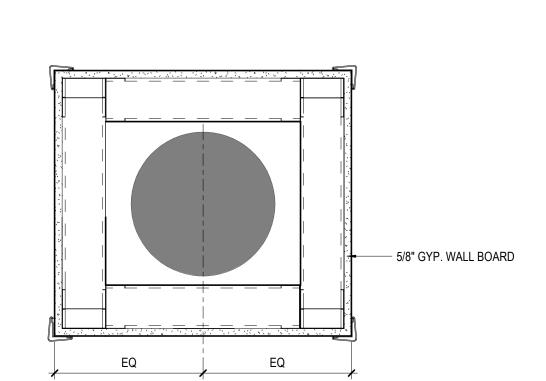
3 SECTION DETAIL - CEILING HEIGHT CHANGES

SCALE: 3" = 1'-0"



SECTION DETAIL - TRIM EDGE @ GYP. CEILING

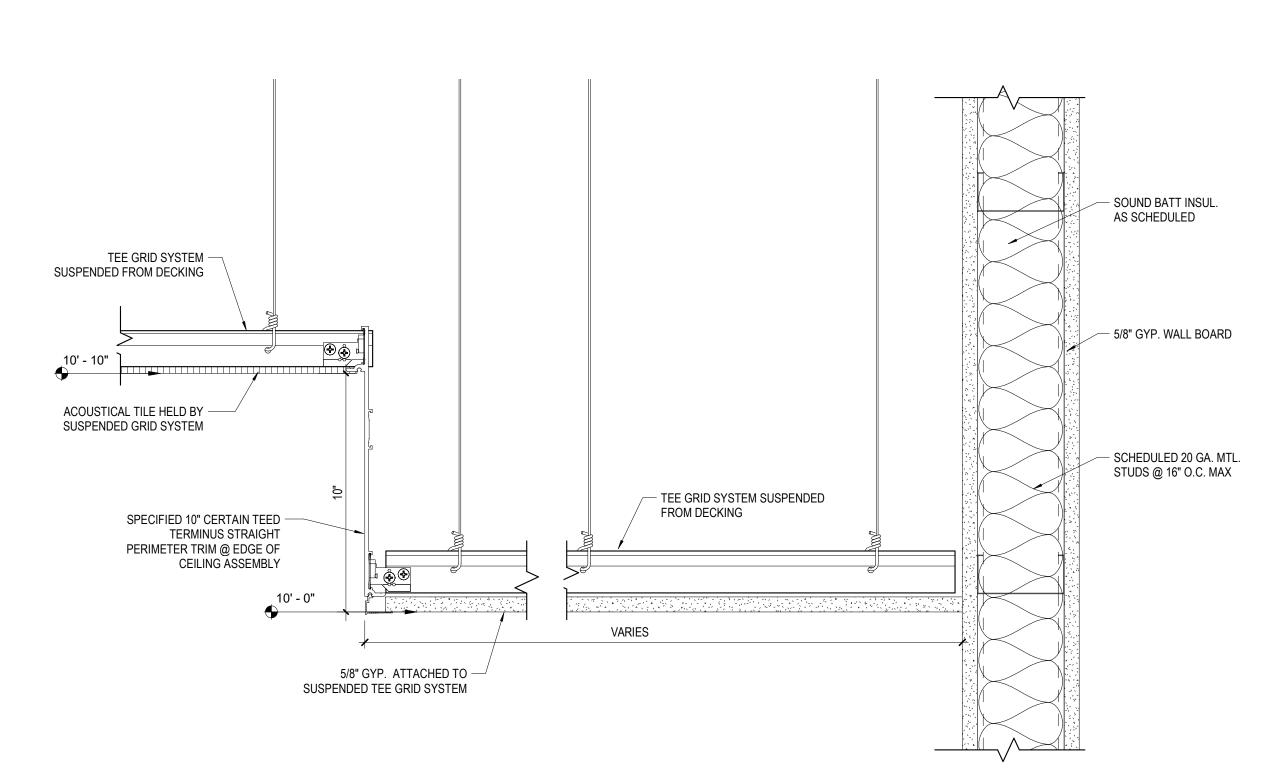
SCALE: 3" = 1'-0"



PLAN DETAIL - TYP. COLUMN COVER

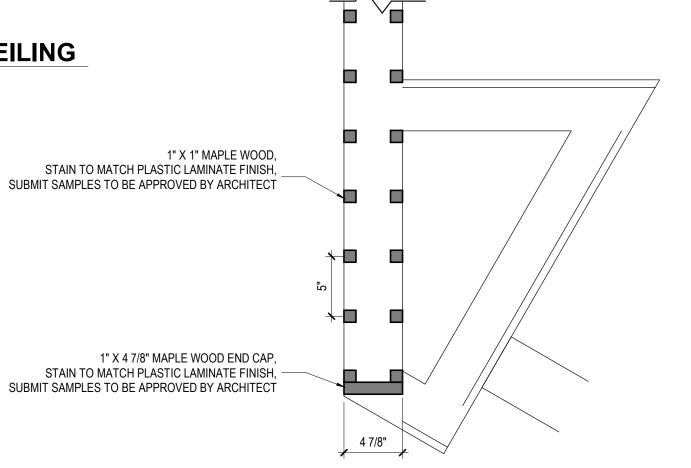
(a) (a) EXISTING COLUMN

(b) SCALE: 1 1/2" = 1'-0"

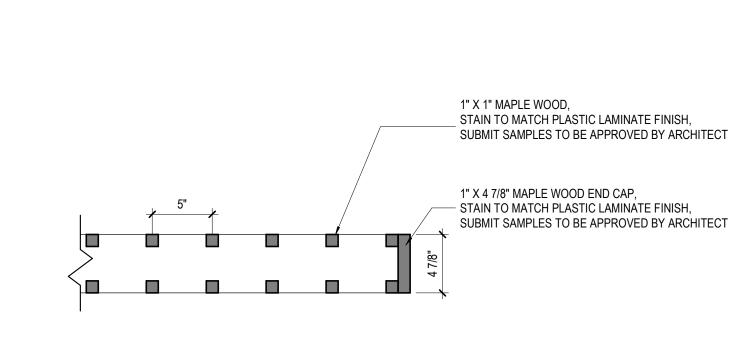


7 SECTION DETAIL - TRAINING ROOM CEILING

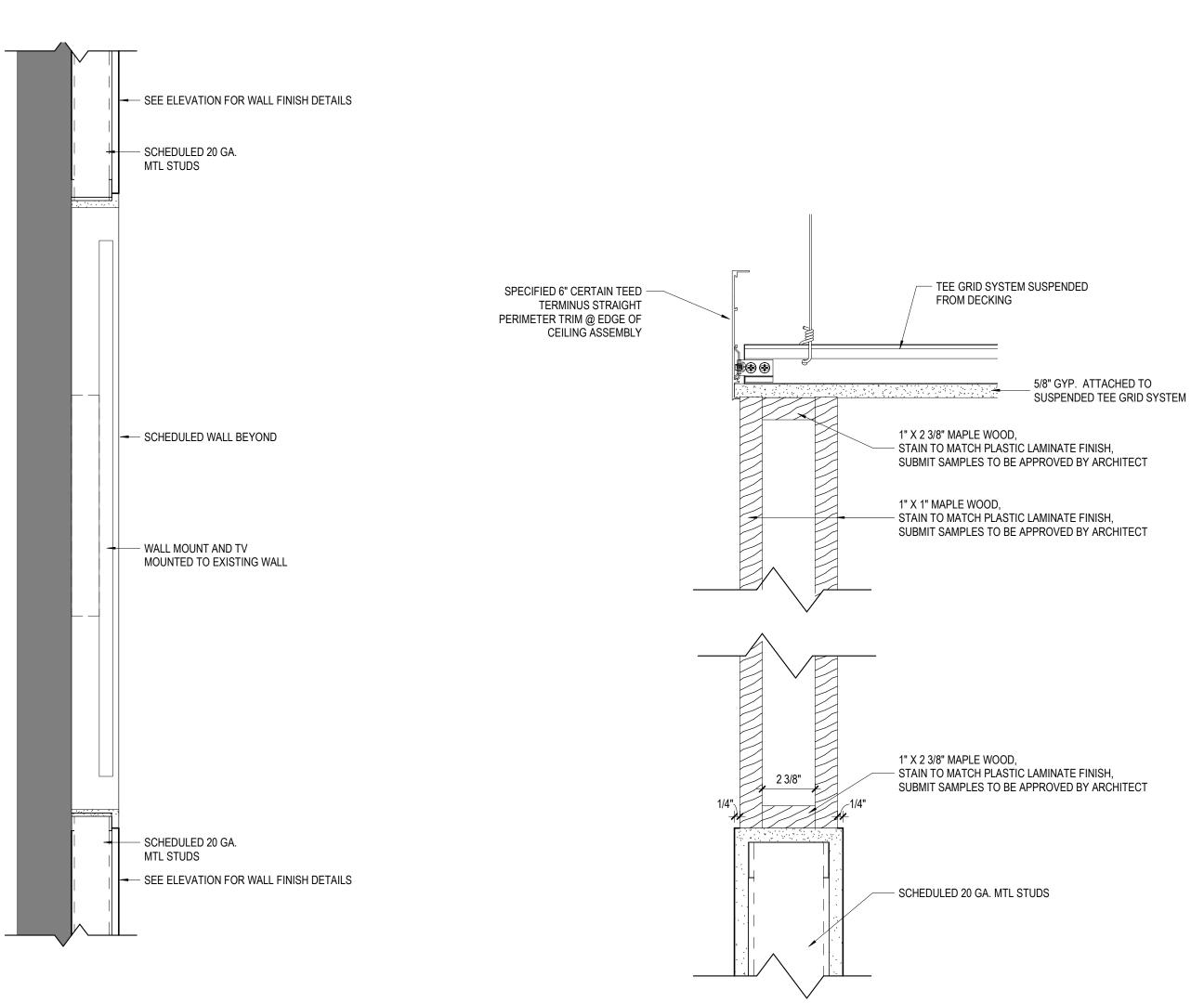
SCALE: 3" = 1'-0"



5 PLAN DETAIL - RECEPTION SLAT WALL
SCALE: 1 1/2" = 1'-0"



6 PLAN DETAIL - RECEPTION SLAT WALL
SCALE: 1 1/2" = 1'-0"



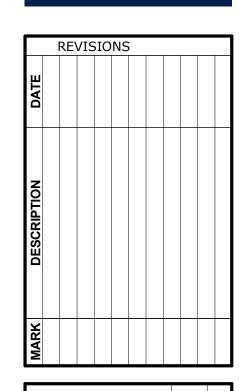
8 SECTION DETAIL - TRAINING ROOM TV
SCALE: 1 1/2" = 1'-0"

9 SECTION DETAIL - RECEPTION SLAT WALL

SCALE: 3" = 1'-0"







PHASE II RENOVATION

4981 AYERS STREET

CORPUS CHRISTI, TX 78415

DETAILS

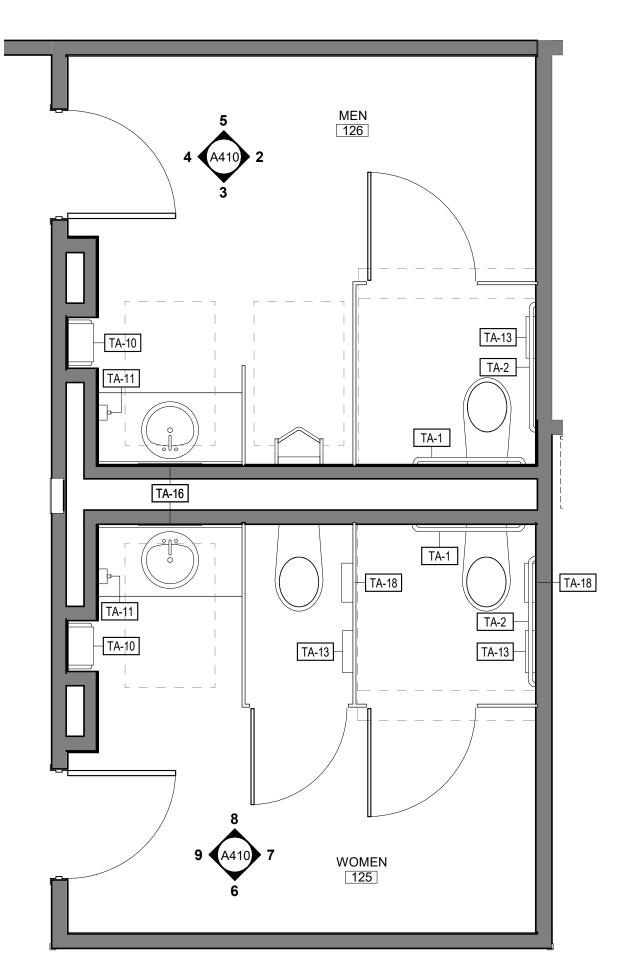
JOB NO. 202217

PHASE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 07/21/2022

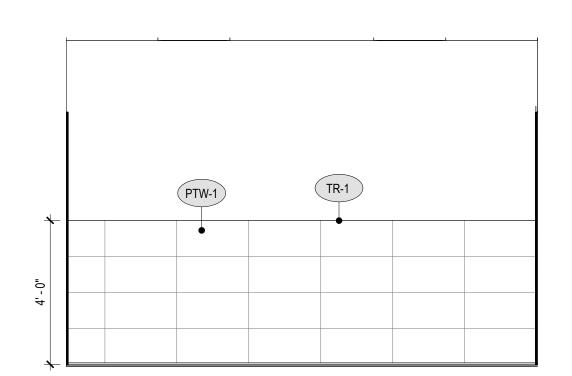
DRN. BY: KD

CKD. BY: AR

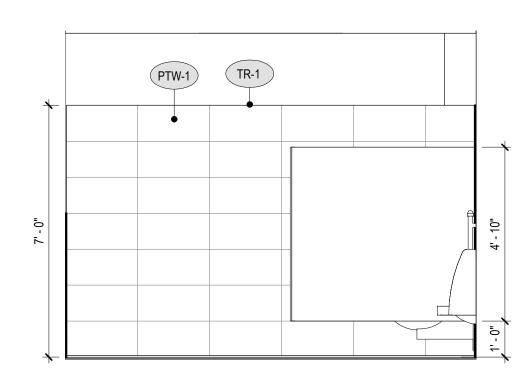


1 RESTROOMS

A410 SCALE: 3/8" = 1'-0"



6 WOMEN 125 - SOUTH ELEV A410 SCALE: 3/8" = 1'-0"



MEN 126 - EAST ELEV

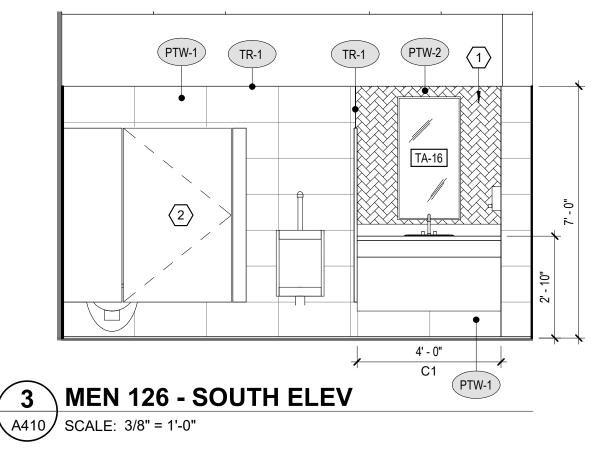
SCALE: 3/8" = 1'-0"

PTW-1

TA-19

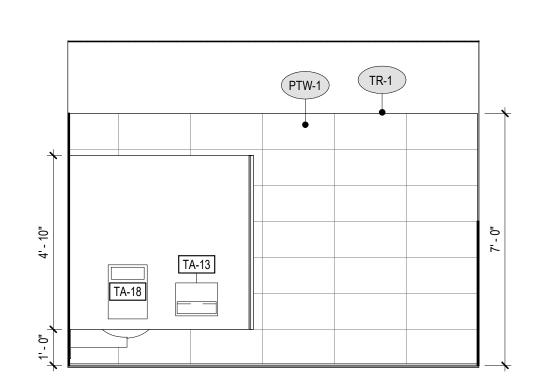
4 MEN 126 - WEST ELEV

A410 SCALE: 3/8" = 1'-0"



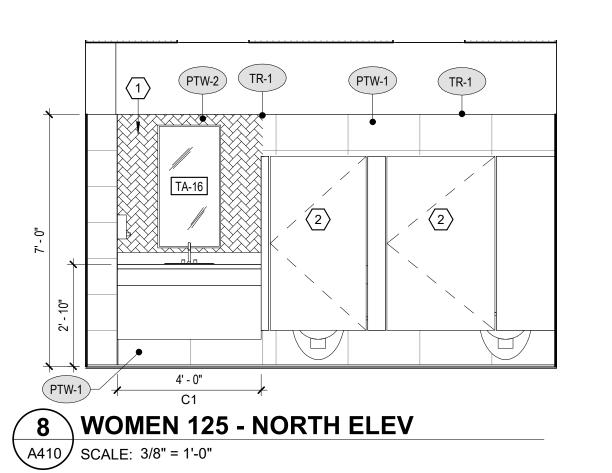
PTW-1
TR-1

5 MEN 126 - NORTH ELEV SCALE: 3/8" = 1'-0"

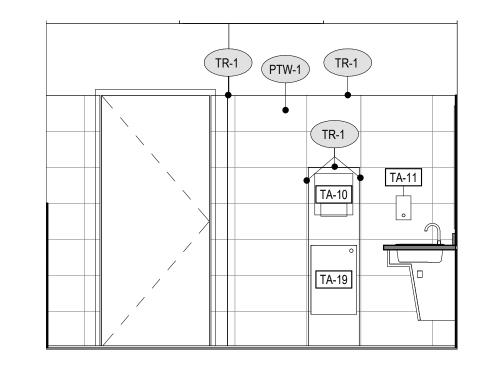


7 WOMEN 125 - EAST ELEV

A410 SCALE: 3/8" = 1'-0"



TOILET ACCESSORY MASTER SCHEDULE EQUIPMENT TYPE COMMENTS OWNER PROV. OWNER INST. CONTRACTOR PROV. CONTRACTOR INST. TA-1 36" GRAB BAR AMERICAN SPECIALTIES, 3801-36P TA-2 42" GRAB BAR AMERICAN SPECIALTIES, 3801-42P TA-6 ROBE HOOK AMERICAN SPECIALTIES, 7340-S TA-10 SURFACE MOUNTED PAPER TOWEL DISPENSER GEORGIA-PACIFIC, 59462A, COLOR: BLACK Yes TA-11 SURFACE MOUNTED SOAP DISPENSER PURELL, 444M76, COLOR: GRAY Yes TA-13 SURFACE MOUNTED TOILET TISSUE DISPENSER GEORGIA-PACIFIC, 7179705, COLOR: TRANSLUCENT SMOKE TA-16 FRAMED MIRROR, 21"X41" UTTERMOST, TAFT MIRROR, POLISHED NICKEL TA-18 SURFACE MOUNTED SANITARY NAPKIN DISPOSAL AMERICAN SPECIALTIES, 0473-A Yes TA-19 SURFACE MOUNTED WASTE RECEPTACLE AMERICAN SPECIALTIES, 0826



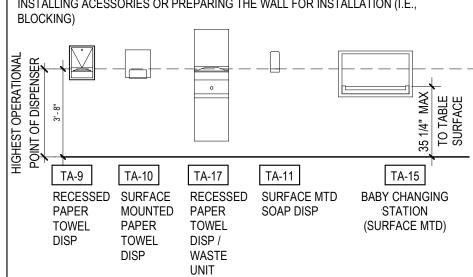
9 WOMEN 125 - WEST ELEV SCALE: 3/8" = 1'-0"

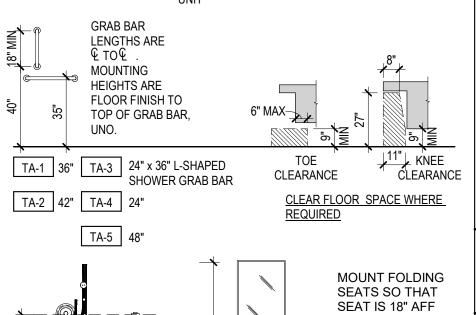
TOILET ACCESSORY LEGEND

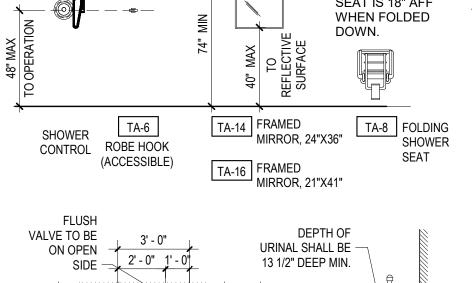
U.N.O., MOUNT TOILET ACCESSSORY DISPENSERS AND/OR RECEPTACLES ON WALLS SUCH THAT THE <u>HIGHEST OPERATIONAL POINT</u> OF THE FIXTURE IS:
48" AFF WHERE LOCATED ABOVE ANY OBSTRUCTION PROTRUDING LESS THAN 20"

FROM THE WALL 44" AFF WHERE LOCATED ABOVE ANY OBSTRUCTION PROTRUDING 20"-25" FROM THE

WALL
*NOTIFY ARCHITECT OF CONFLICTS BETWEEN TOILET ACCESSORIES AND NEW OR
EXISTING CONSTRUCTION RESULTING FROM THESE MOUNTING HEIGHTS PRIOR TO
INSTALLING ACESSORIES OR PREPARING THE WALL FOR INSTALLATION (I.E.,







56" MIN. CLEAR

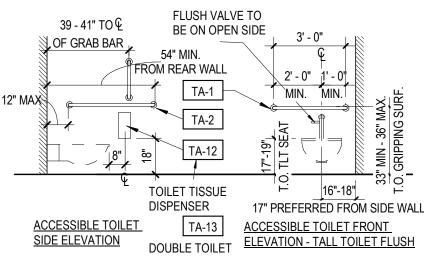
41 - 8"

MIN. MAX.

54" MAX.

TYPICAL ACCESSIBLE TOILET

ACCESSIBLE URINAL FRONT ELEVATION

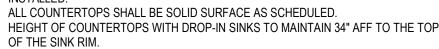


TISSUE DISPENSER

INTERIOR ELEVATION GENERAL NOTES

- REFER TO ELECTRICAL DRAWINGS FOR POWER AND DATA LOCATIONS.
 EXISTING GYPSUM BOARD SHALL BE PATCHED AND REPAIRED AT ALL DAMAGED AREAS OR WHERE MEP MODIFICATIONS ARE MADE. WALL SHALL BE RETEXTURED
- FOR A CONSISTENT FINISH. PAINT AS SCHEDULED.

 3. PROVIDE IN-WALL BLOCKING WHERE ALL SURFACE MOUNTED EQUIPMENT IS TO BE
- PROVIDE IN-WALL BLOCKING WHERE ALL SURFACE MOUNTED EQUIPMENT IS TO B
 INSTALLED.
 ALL COUNTERTOPS SHALL BE SOLID SURFACE AS SCHEDULED.



INTERIOR ELEVATION LEGEND

EQ-X EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.

FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND

TA-X TOILET ACCESSORY. REFER TO INTERIOR ELEVATIONS AND SCHEDULE.

CABINET WIDTH ______ 24"
CABINET TYPE _____ N1
(REF SHEET A420 FOR DESCRIPTIONS)



78401-0750

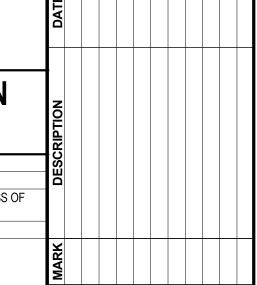
REVISIONS



DESCRIPTION

FLOAT GROUT/MORTAR FOR MOSAIC TILE (PTW-2) TO ALIGN WITH THICKNESS OF FIELD TILE (PTW-1).

2 SINGLE ROBE HOOK (TA-6) ON INSIDE OF STALL



SIOR ELEVATIONS JON OVER THE PROPESSIONAL PRACTICE OF

4981 AYERS STREET
CORPUS CHRISTI, TX 78415

KGED PLANS & INTERIO
AS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVE

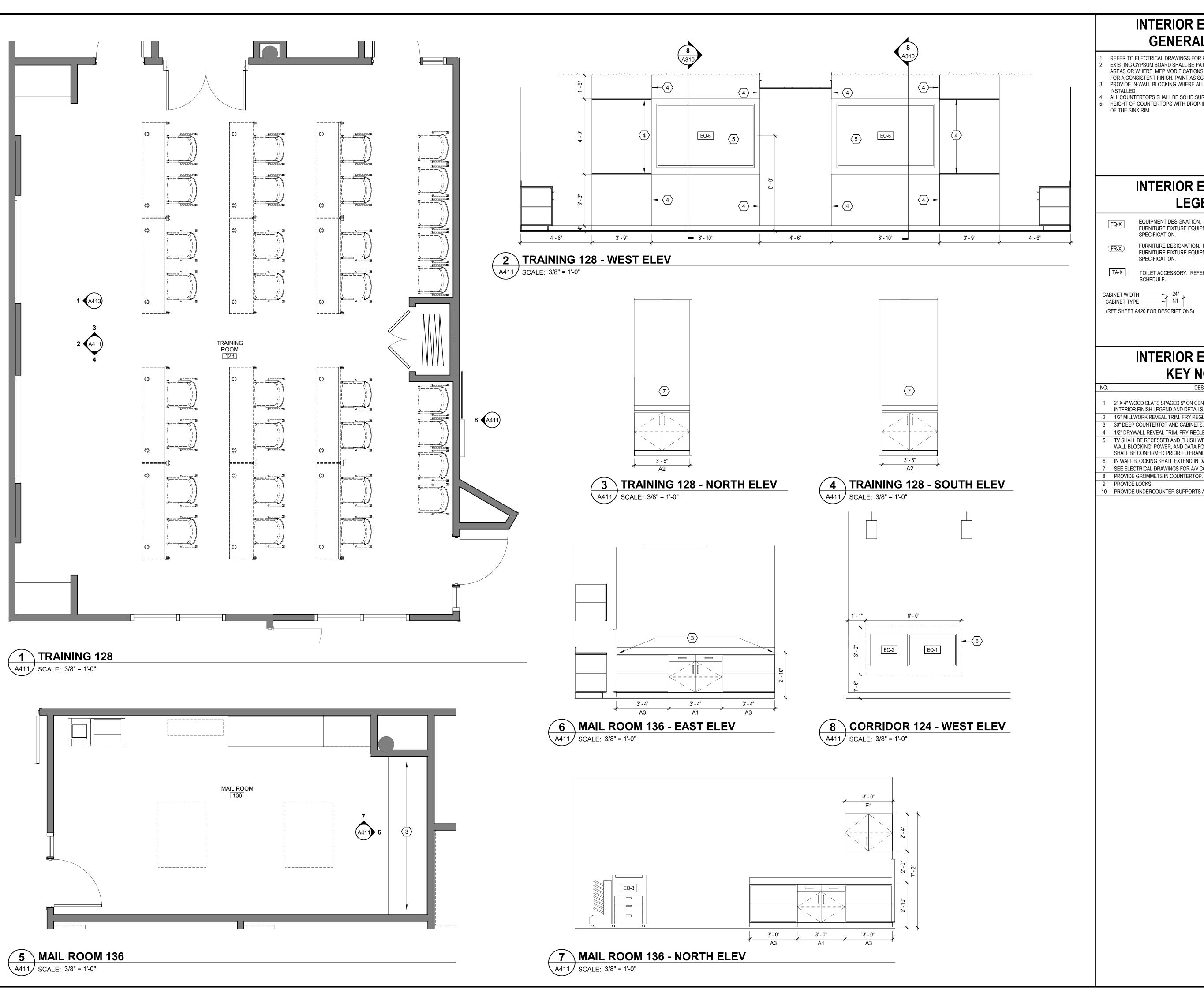
NO. 202217
SE: CONSTRUCTION DOCUMENTS

07/21/2022

SHEET NUMBER $\Delta 410$

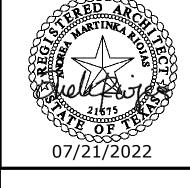
ISSUE DATE

CKD. BY:



INTERIOR ELEVATION **GENERAL NOTES**

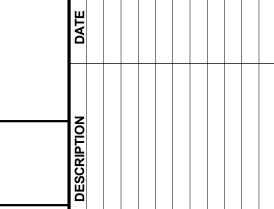
- REFER TO ELECTRICAL DRAWINGS FOR POWER AND DATA LOCATIONS.
 EXISTING GYPSUM BOARD SHALL BE PATCHED AND REPAIRED AT ALL DAMAGED AREAS OR WHERE MEP MODIFICATIONS ARE MADE. WALL SHALL BE RETEXTURED
- FOR A CONSISTENT FINISH. PAINT AS SCHEDULED.
- PROVIDE IN-WALL BLOCKING WHERE ALL SURFACE MOUNTED EQUIPMENT IS TO B
- ALL COUNTERTOPS SHALL BE SOLID SURFACE AS SCHEDULED.
- HEIGHT OF COUNTERTOPS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP OF THE SINK RIM.



INTERIOR ELEVATION **LEGEND**

- EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.
- FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND
- TOILET ACCESSORY. REFER TO INTERIOR ELEVATIONS AND

CABINET WIDTH 24"
CABINET TYPE N1 (REF SHEET A420 FOR DESCRIPTIONS) 615 N. Upper Broadway Suite 1250 Corpus Christi, TX 78401-0750



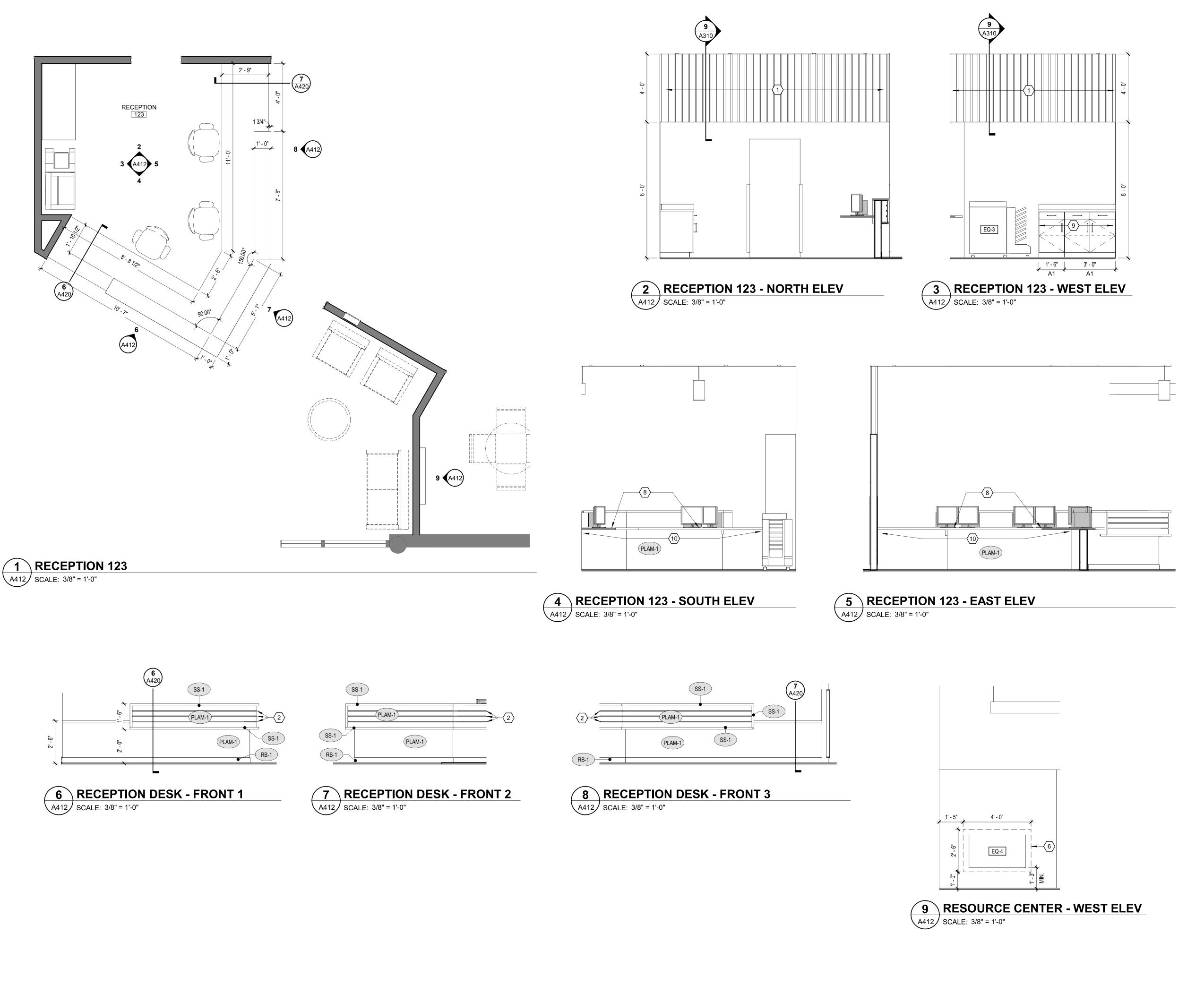
REVISIONS

KEY NOTES DESCRIPTION

INTERIOR ELEVATION

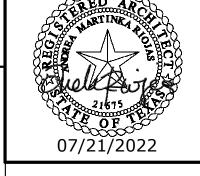
- 2" X 4" WOOD SLATS SPACED 5" ON CENTER. STAINED AS SCHEDULED. REFER TO INTERIOR FINISH LEGEND AND DETAILS.
- 1/2" MILLWORK REVEAL TRIM. FRY REGLET, MWU5050, CLEAR ANODIZED. 30" DEEP COUNTERTOP AND CABINETS.
- 4 1/2" DRYWALL REVEAL TRIM. FRY REGLET, DRM-625-50, BLACK. 5 TV SHALL BE RECESSED AND FLUSH WITH WALL. CONTRACTOR SHALL PROVIDE IN
- WALL BLOCKING, POWER, AND DATA FOR 85" TV. ALL DIMENSIONS FOR ELEVATION SHALL BE CONFIRMED PRIOR TO FRAMING.
- 6 IN WALL BLOCKING SHALL EXTEND IN DASHED AREA. SEE ELECTRICAL DRAWINGS FOR AV CONTROLS AS REQUIRED.
- 9 PROVIDE LOCKS.
- 10 PROVIDE UNDERCOUNTER SUPPORTS AS NEEDED.

CONSTRUCTION DOCUMENTS ISSUE DATE CKD. BY:



INTERIOR ELEVATION **GENERAL NOTES**

- REFER TO ELECTRICAL DRAWINGS FOR POWER AND DATA LOCATIONS.
 EXISTING GYPSUM BOARD SHALL BE PATCHED AND REPAIRED AT ALL DAMAGED
- AREAS OR WHERE MEP MODIFICATIONS ARE MADE. WALL SHALL BE RETEXTURED FOR A CONSISTENT FINISH. PAINT AS SCHEDULED.
- PROVIDE IN-WALL BLOCKING WHERE ALL SURFACE MOUNTED EQUIPMENT IS TO B
- ALL COUNTERTOPS SHALL BE SOLID SURFACE AS SCHEDULED. HEIGHT OF COUNTERTOPS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP



INTERIOR ELEVATION **LEGEND**

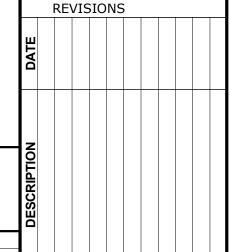
EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.

FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND

TOILET ACCESSORY. REFER TO INTERIOR ELEVATIONS AND

CABINET WIDTH 24"
CABINET TYPE N1 (REF SHEET A420 FOR DESCRIPTIONS)

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



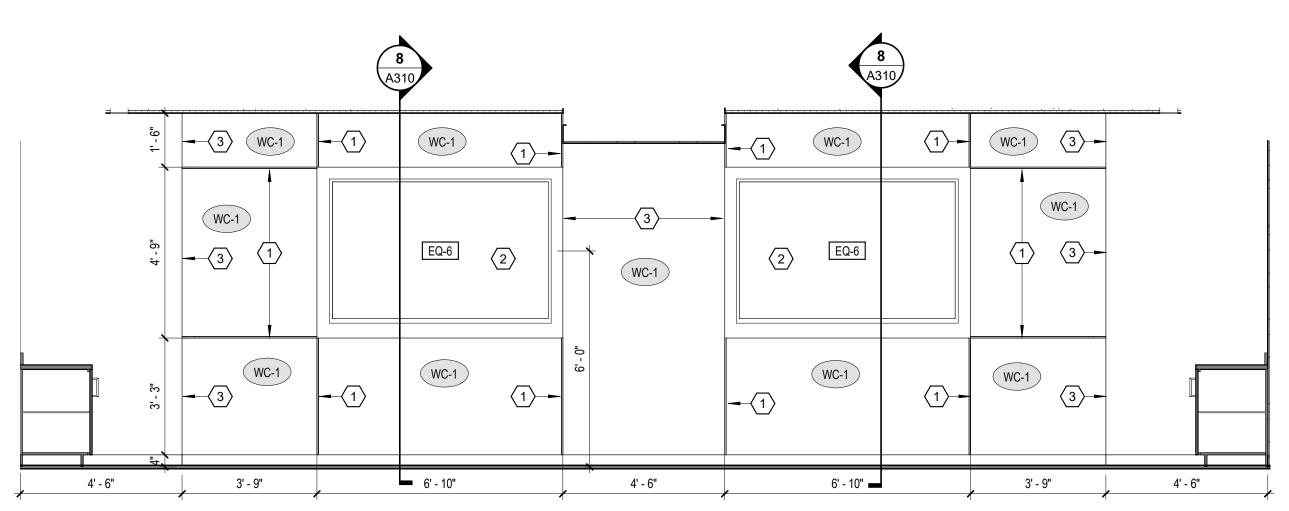
INTERIOR ELEVATION **KEY NOTES**

DESCRIPTION

- 2" X 4" WOOD SLATS SPACED 5" ON CENTER. STAINED AS SCHEDULED. REFER TO INTERIOR FINISH LEGEND AND DETAILS.
- 1/2" MILLWORK REVEAL TRIM. FRY REGLET, MWU5050, CLEAR ANODIZED.
- 30" DEEP COUNTERTOP AND CABINETS. 4 1/2" DRYWALL REVEAL TRIM. FRY REGLET, DRM-625-50, BLACK.
- TV SHALL BE RECESSED AND FLUSH WITH WALL. CONTRACTOR SHALL PROVIDE IN WALL BLOCKING, POWER, AND DATA FOR 85" TV. ALL DIMENSIONS FOR ELEVATION
- SHALL BE CONFIRMED PRIOR TO FRAMING. 6 IN WALL BLOCKING SHALL EXTEND IN DASHED AREA.
- 7 SEE ELECTRICAL DRAWINGS FOR A/V CONTROLS AS REQUIRED.
- 8 PROVIDE GROMMETS IN COUNTERTOP. 9 PROVIDE LOCKS.
- 10 PROVIDE UNDERCOUNTER SUPPORTS AS NEEDED.

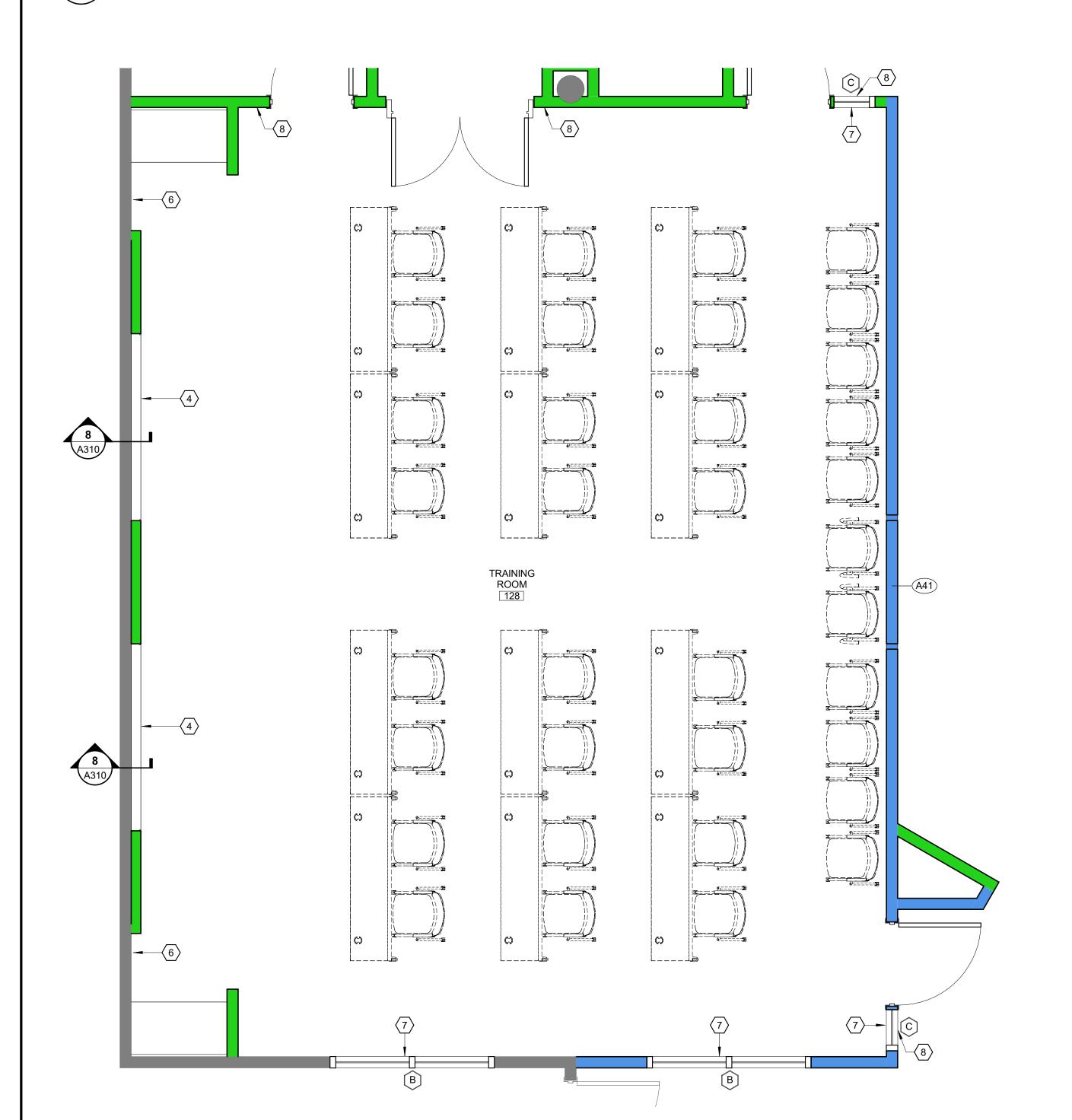
4981 AYERS STREET CORPUS CHRISTI, TX 78415

202217 CONSTRUCTION DOCUMENTS ISSUE DATE CKD. BY:



1 TRAINING 128 - WEST ELEV - ADD ALTERNATE 1

A413 SCALE: 3/8" = 1'-0"



TRAINING 128 - DEDUCT ALTERNATE 4

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

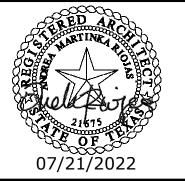
GBC-1 9' - 0" - O. **7** A310 TRAINING ROOM 128 ACT- 1 9' - 10") GBC-1. 9' - 0" 5' - 2"

TRAINING 128 RCP - DEDUCT ALTERNATE 4

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

INTERIOR ELEVATION **GENERAL NOTES**

- REFER TO ELECTRICAL DRAWINGS FOR POWER AND DATA LOCATIONS. EXISTING GYPSUM BOARD SHALL BE PATCHED AND REPAIRED AT ALL DAMAGED AREAS OR WHERE MEP MODIFICATIONS ARE MADE. WALL SHALL BE RETEXTURED
- FOR A CONSISTENT FINISH. PAINT AS SCHEDULED. PROVIDE IN-WALL BLOCKING WHERE ALL SURFACE MOUNTED EQUIPMENT IS TO BI
- ALL COUNTERTOPS SHALL BE SOLID SURFACE AS SCHEDULED.
- HEIGHT OF COUNTERTOPS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP



INTERIOR ELEVATION **LEGEND**

EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.

FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.

TOILET ACCESSORY. REFER TO INTERIOR ELEVATIONS AND

CABINET WIDTH ______ 24"
CABINET TYPE _____ N1 (REF SHEET A420 FOR DESCRIPTIONS)

ALTERNATES KEY NOTES

DESCRIPTION

WALLCOVERING TRIM. FRY REGLET, WCTF125-217, BLACK. TV SHALL BE RECESSED AND FLUSH WITH WALLCOVERING.

WALLCOVERING TRIM. FRY REGLET, WCTBT125-217, BLACK. CONTRACTOR SHALL PROVIDE IN WALL BLOCKING FOR 85" TV. PROVIDE POWER AND DATA. SEE ELECTRICAL DRAWINGS FOR INSTALLATION HEIGHT. SEE INTERIOR

ELEVATIONS FOR WALL FINISH DETAILS. REFER TO ELECTRICAL DRAWINGS FOR A/V CONTROLS.

EXISTING WALLS SHALL REQUIRE FLOAT, TEXTURE, AND PAINT TO

STRUCTURE/CEILING-TYPICAL. SEE REFERENCE PLAN AND RCP FOR DETAILS. PROVIDE 1" ALUMINUM BLINDS.

PROVIDE AND INSTALL ROOM SIGNAGE. SIGNAGE SHALL BE MOUNTED IN

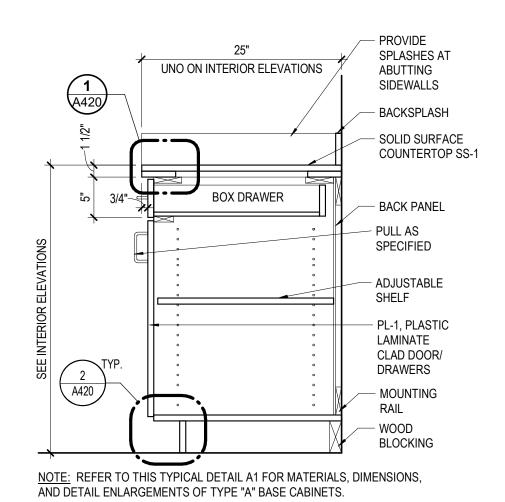
COMPLIANCE WITH TAS REQUIREMENTS. REFER TO SHEET A810 FOR SIGNAGE TYPES AND QUANTITY.

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

REVISIONS

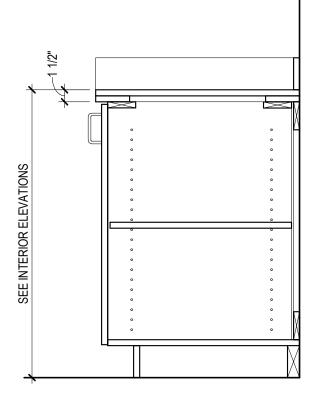
WORKFORCE SOLUTIONS
PHASE II RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

CONSTRUCTION DOCUMENTS ISSUE DATE

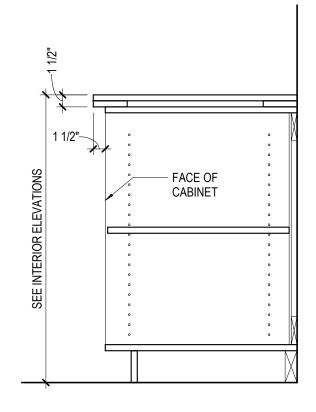


A1 BASE CABINET

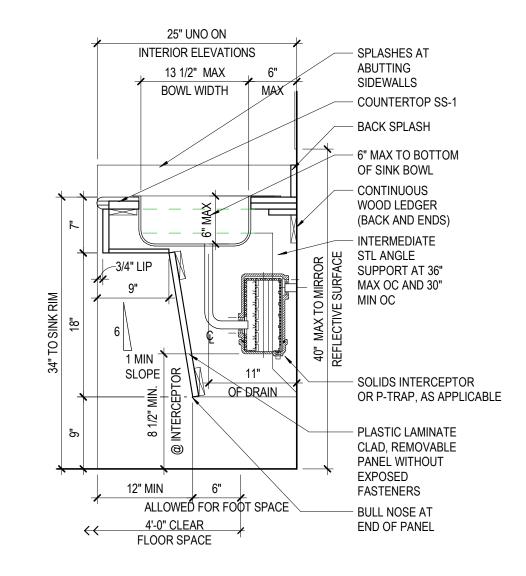
SCALE: 1" = 1'-0"



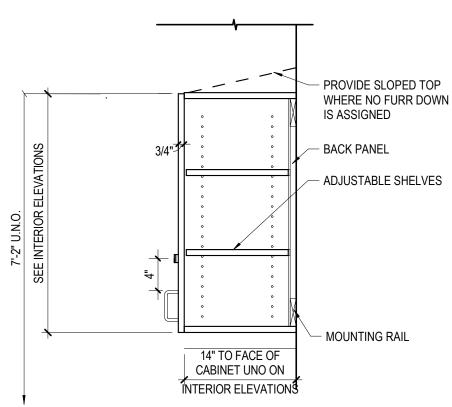
A2 BASE CABINET
SCALE: 1" = 1'-0"



A3 BASE CABINET
SCALE: 1" = 1'-0"

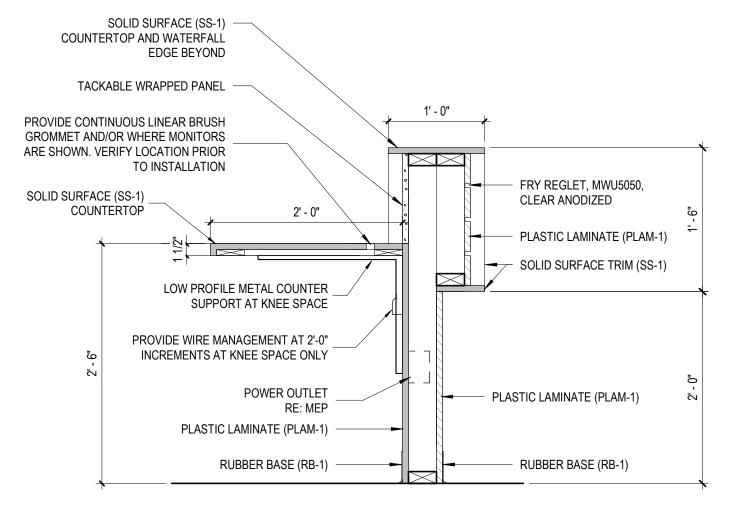


C1 ACCESSIBLE SINK
SCALE: 1" = 1'-0"

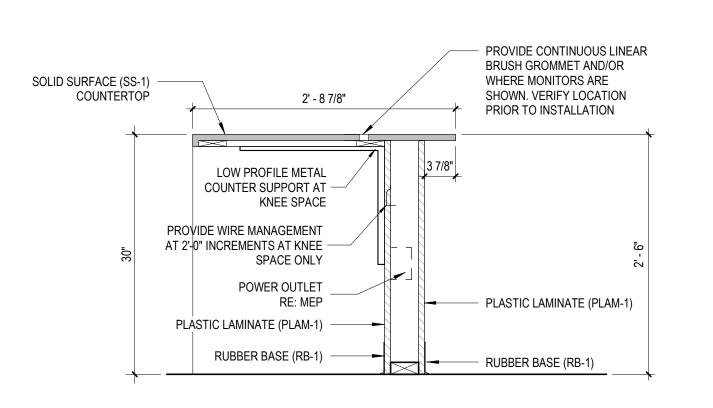


NOTE: REFER TO THIS TYPICAL DETAIL E1 FOR MATERIALS AND DIMENSIONS OF TYPE "E" UPPER CABINETS

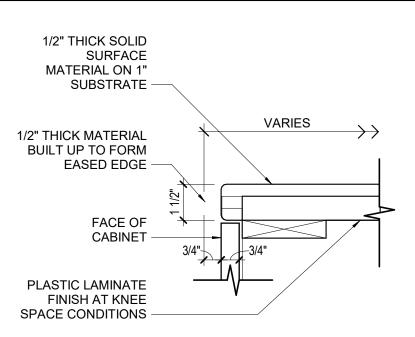
E1 UPPER CABINET
SCALE: 1" = 1'-0"



6 COUNTER SECTION 1 - RECEPTION DESK
SCALE: 1" = 1'-0"

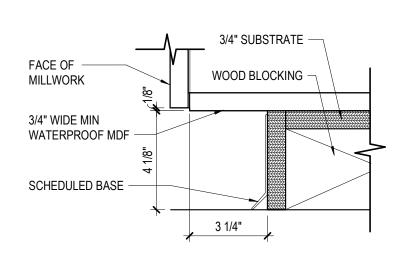


7 COUNTER SECTION 2 - RECEPTION DESK
SCALE: 1" = 1'-0"



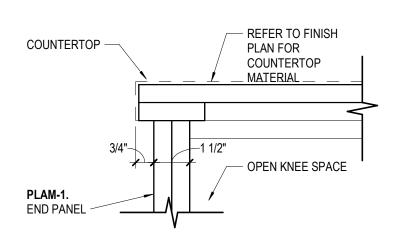
<u>NOTE</u>: REFER TO FINISH PLANS FOR COUNTERTOP MATERIAL

1 TYP. DETAIL - EASED COUNTER EDGE SCALE: 3" = 1'-0"

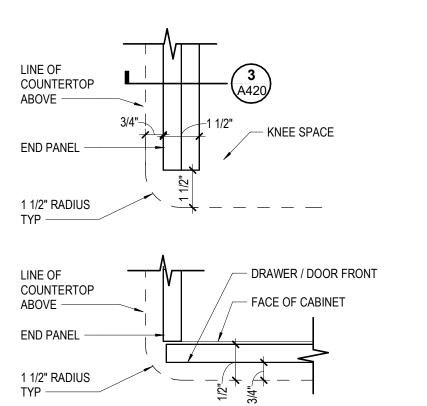


2 TYP. DETAIL - TOE KICK

A420 SCALE: 3" = 1'-0"

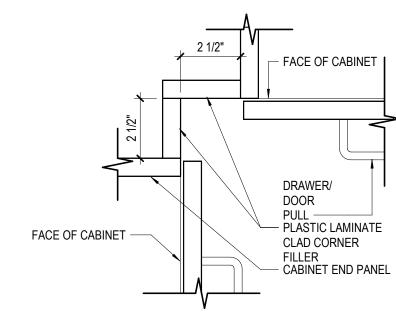


3 TYP. DETAIL - FINISHED END PANEL
SCALE: 3" = 1'-0"



4 TYP. DETAIL - COUNTERTOP CORNER

A420 SCALE: 3" = 1'-0"

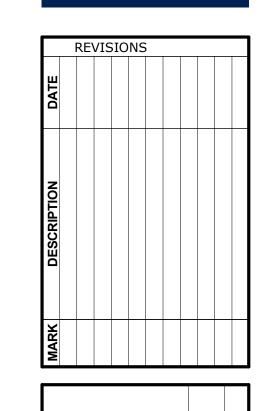


TYP. DETAIL - INSIDE CORNER

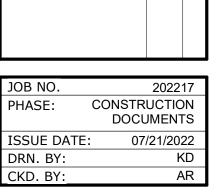
SCALE: 3" = 1'-0"

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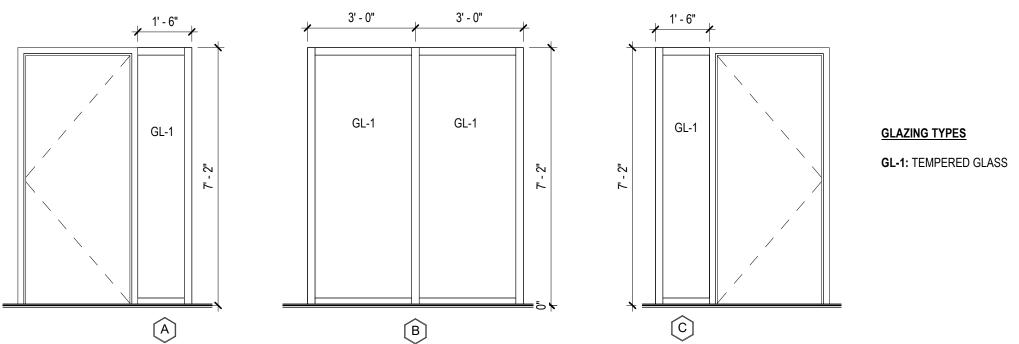
		DOOR SCHEDULE																
	DO	OR		ļ	PANEL				FRAME						FROM		ТО	
NO.	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FINISH		OVERALL DEPTH	MULLION	MATERIAL	FINISH	HWD SET	FIRE RATING	NO.	NAME	NO.	NAME	COMMENTS
111.2	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		128	TRAINING ROOM	111	COFFEE	
124	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	06		144	CORRIDOR	124	CORRIDOR	
125	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	05		124	CORRIDOR	125	WOMEN	
126	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	05		124	CORRIDOR	126	MEN	
128.1	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		128	TRAINING ROOM	123	RECEPTION	
128.2	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		128	TRAINING ROOM	124	CORRIDOR	
129	5' - 0"	7' - 0"	1 3/4"	FS FS	PLAM	PLAM-1	1	8"	No	PREFINISHED STEEL	BLACK	08		129	STORAGE	128	TRAINING ROOM	
130	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	01		143	SHELL SPACE	130	ONE STOP	
133	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03		133	STORAGE	130	ONE STOP	
134	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	02		130	ONE STOP	134	OFFICE	
135	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	02		130	ONE STOP	135	OFFICE	
136	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	07		144	CORRIDOR	136	MAIL ROOM	
137	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		144	CORRIDOR	137	SMALL CONFERENCE	
138	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	02		144	CORRIDOR	138	OFFICE	
139	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	02		144	CORRIDOR	139	OFFICE	
140	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		144	CORRIDOR	140	HUDDLE	
141	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		144	CORRIDOR	141	HUDDLE	
143	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	01		143	SHELL SPACE	144	CORRIDOR	
144	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	07		144	CORRIDOR			
E7 E12	3' - 0" 6' -50"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	FS FG FG	ETR ETR	PT-6 ETR	EXIST.	8" 8"		HM - ETR AL - ETR	PT-5	ETR 09						

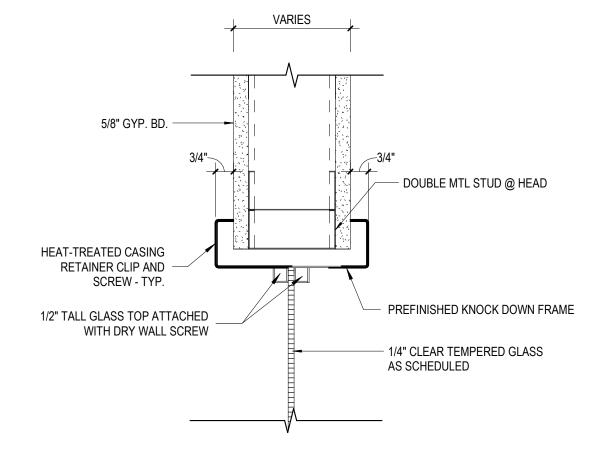
DOOR HARDWARE SCHEDULE

- SET 01: HINGE, RIM EXIT DEVICE, ELECTRIC STRIKE, SURFACE CLOSER, WALL STOP, GASKETING, EXIT ONLY SIGN, AUDIBLE ALARM. CARD READER BY OTHERS.
- SET 02: HINGE, OFFICE LOCKSET, WALL STOP, SILENCER SET 03: HINGE, STORAGE LOCKSET, WALL STOP, SILENCERS
- SET 04: HINGE, CLASSROOM SET, ELECTRIC STRIKE, WALL STOP, SILENCERS
- SET 05: HINGE, PUSH/PULL, SURFACE CLOSER, WALL STOP, SILENCERS SET 06: HINGE, STORAGE LOCKSET, WALL STOP, GASKETING, ELECTRONIC STRIKE. CARD READER BY OTHERS.
- SET 07: HINGE, PASSAGE SET, WALL STOP, SILENCERS SET 08: HINGE, FLUSH BOLT, CLASSROOM SET, WALL STOP, SILENCERS
- SET 09: PULL, THUMBOLT, SURFACE CLOSER, WEATHER STRIPPINNG, THRESHOLD (ALL OTHER EXISTING TO REMAIN)

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

INTERIOR FRAME TYPES



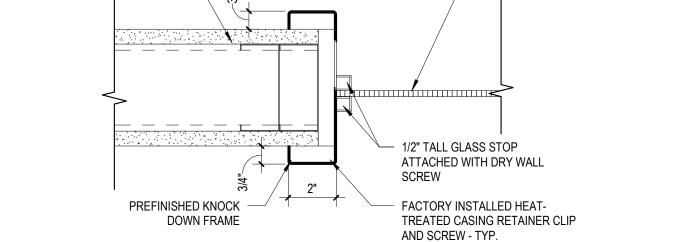


3 TYP. STEEL WINDOW FRAME - HEAD DETAIL

A510 SCALE: 3" = 1'-0"

1/4" TEMPERED GLASS AS SCHEDULED -1/2" TALL GLASS STOP ATTACHED WITH DRY WALL HEAT-TREATED CASING RETAINER — CLIP AND SCREW - TYPICAL 18 GAUGE SILL EXTENDER FINISH FLOOR ANCHOR AT FLOOR CHANNEL

4 TYP. STEEL WINDOW FRAME - SILL DETAIL



5/8" GYP BD -

HEAT-TREATED CASING RETAINER CLIP AND SCREW - TYPICAL

STEEL CASING - TYPICAL

PREFINISHED KNOCK

DOWN FRAME

1 TYP. STEEL DOOR FRAME - HEAD DETAIL

1/4" TEMPERED GLASS

SCHEDULED PARTITION -

MTL STUD HEAD TRACK <

SCHEDULED DOOR -

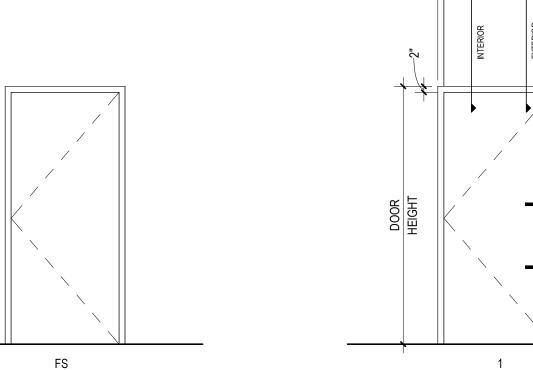
A510 | SCALE: 3" = 1'-0"

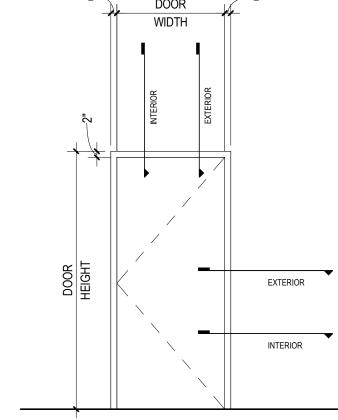
DOUBLE MTL STUD @ JAMBS

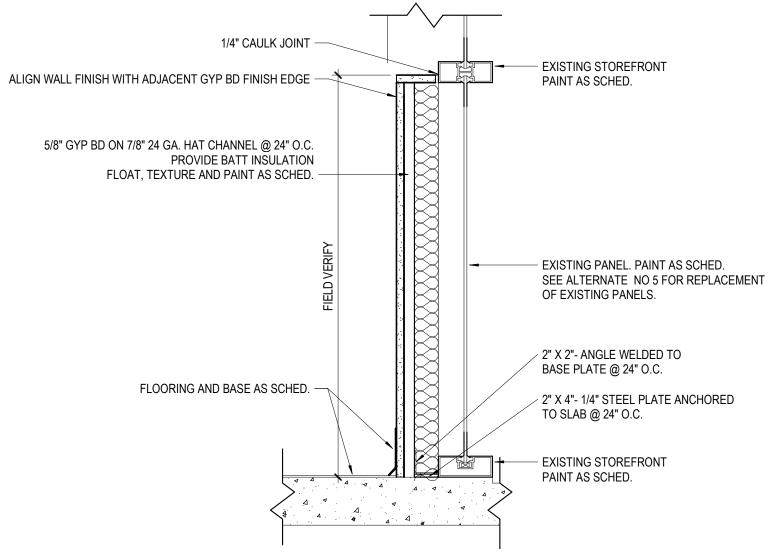
5 TYP. STEEL WINDOW FRAME - JAMB DETAIL A510 SCALE: 3" = 1'-0"

DOOR PANEL TYPES

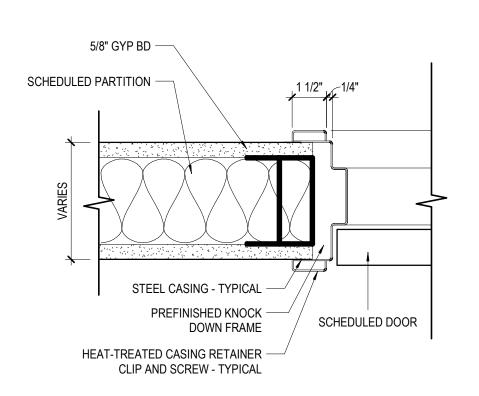




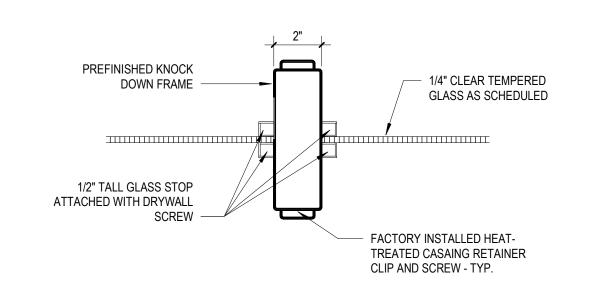




10 WALL SECTION AT STOREFRONT SCALE: 1 1/2" = 1'-0"

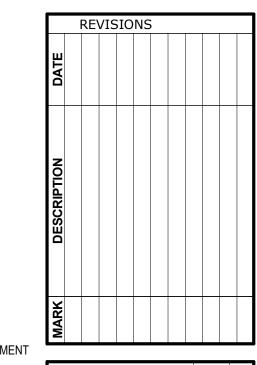


2 TYP. STEEL DOOR FRAME - JAMB DETAIL A510 SCALE: 3" = 1'-0"





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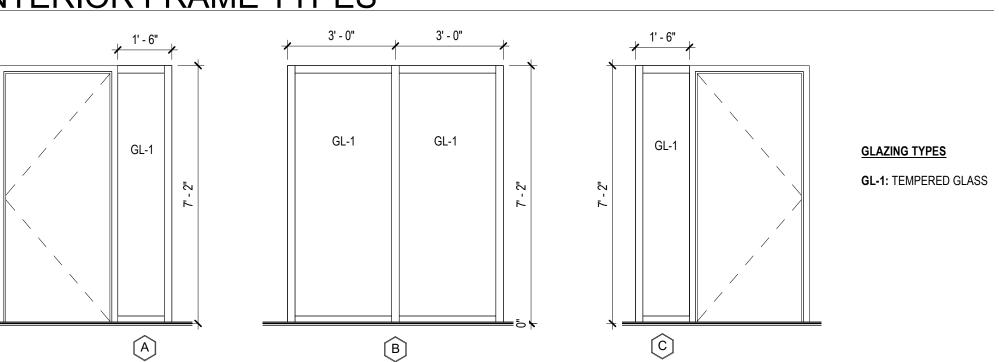




CONSTRUCTION DOCUMENTS PHASE: ISSUE DATE: 07/21/2022 DRN. BY: CKD. BY:

SHEET NUMBER

6 TYP. STEEL WINDOW FRAME - MULLION DETAIL A510 SCALE: 3" = 1'-0"





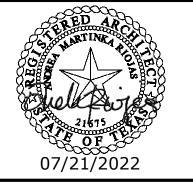


FINISH PLAN GENERAL NOTES

- REFER TO INTERIOR FINISH PLAN FOR FLOOR DIRECTIONS. ALL FLOOR FINISH TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR WHEN
- DOOR IS IN CLOSED POSITION.

 PAINT ALL ELECTRICAL AND ACCESS PANELS TO MATCH ADJACENT WALL COLOR,
- PAINT ALL ACCESS PANELS IN CEILING TO MATCH ADJACENT CEILING COLOR,

- HORIZONTAL AND VERTICAL SURFACE OF FURR-DOWN TO MATCH ADJACENT WALLS AND CEILING, U.N.O.
 REFER TO REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS.
 REFER TO SHEET A612 FOR PAINT LOCATIONS AND DETAILS.

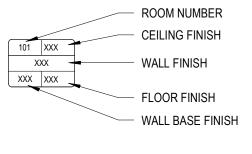




Corpus Christi, TX

78401-0750

FINISH PLAN FINISH SYMBOL LEGEND



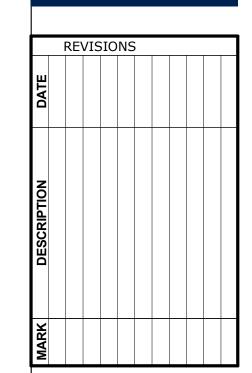


FINISH MATERIAL TAG

KEYNOTE

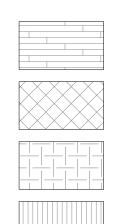


MATERIAL PATTERN DIRECTION & FLOORING SEAM DIRECTION (IF APPLICABLE)



FINISH PLAN FLOORING LEGEND

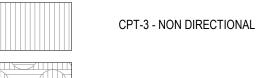
NOTE: FLOOR CONFIGURATION AND LAYOUT SHALL BE REVIEWED AND APPROVED BY ARCHITECT. THE FLOOR PATTERN SHOWN IS REPRESENTATION FOR AREA COVERAGE ONLY. DO NOT INSTALL FLOORING BASED OFF PATTERN SHOWN.



LVT-1 - ASHLAR

CPT-1 - ASHLAR

CPT-2 - ASHLAR



CPT-4 - NON DIRECTIONAL

PTF-1 - STACK BOND

WORKFORCE SOLUTIONS
PHASE II RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

202217 CONSTRUCTION DOCUMENTS ISSUE DATE: CKD. BY:

	ROOM FINISH SCHEDULE										
NUMBER	NAME	BASE FINISH	FLOOR FINISH	NORTH	SOUTH	EAST	WEST	CEILING FINISH	CEILING HEIGHT	AREA	COMMENTS
111	COFFEE	RB-1	LVT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	132 SF	REPAINT EXISTING WALLS WITH COAT OF PAINT FOR COHESIVE LOOK WITH NEW PAINTED WALL
123	RECEPTION	RB-1	LVT-1	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	624 SF	REFER TO RCP FOR CEILING HEIGHTS
124	CORRIDOR	RB-1	CPT-2	PAINT	PAINT	PAINT	PAINT	ACT-1	14'-0"	328 SF	
125	WOMEN	TR-3	PTF-1	,	PTW-1 WAINSCOT / PAINT ABOVE	PTW-1 WAINSCOT / PAINT ABOVE	PTW-1 WAINSCOT / PAINT ABOVE	ACT-1	9'-0"	143 SF	REFER TO INTERIOR ELEVATIONS FOR WAINSCOT HEIGHTS
126	MEN	TR-3	PTF-1		PTW-1,2 WAINSCOT / PAINT ABOVE	PTW-1 WAINSCOT / PAINT ABOVE	PTW-1 WAINSCOT / PAINT ABOVE	ACT-1	9'-0"	143 SF	REFER TO INTERIOR ELEVATIONS FOR WAINSCOT HEIGHTS
127	RESOURCE CENTER	RB-1	CPT-2	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	1541 SF	REFER TO RCP FOR CEILING HEIGHTS
128	TRAINING ROOM	RB-1	CPT-4	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	931 SF	REFER TO RCP FOR CEILING HEIGHTS
129	STORAGE	RB-1	CPT-4	PAINT	PAINT	PAINT	PAINT	ACT-1	8'-0"	73 SF	
130	ONE STOP	RB-1	CPT-1,4	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	3307 SF	REFER TO RCP FOR CEILING HEIGHTS
131	COPY	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	85 SF	
132	COPY	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	12'-0"	72 SF	
133	STORAGE	RB-1	CPT-4	PAINT	PAINT	PAINT	PAINT	ACT-1	8'-0"	25 SF	
134	OFFICE	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	134 SF	
135	OFFICE	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	134 SF	
136	MAIL ROOM	RB-1	CPT-2	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	288 SF	
137	SMALL CONFERENCE	RB-1	CPT-3	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	143 SF	
138	OFFICE	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	134 SF	
139	OFFICE	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	134 SF	
140	HUDDLE	RB-1	CPT-3	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	111 SF	
141	HUDDLE	RB-1	CPT-3	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	111 SF	
142	COPY	RB-1	CPT-2	PAINT	PAINT	PAINT	PAINT	ACT-1	12'-0"	77 SF	
143	SHELL SPACE	N/A	N/A	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	EXISTING TO REMAIN	6044 SF	
144	CORRIDOR	RB-1	CPT-2	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	416 SF	REFER TO RCP FOR CEILING HEIGHTS

FINISH LEGEND

FLOORING

LUXURY 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

CPT-4 MANUF: INTERFACE SERIES: OPEN AIR, 403 COLOR: CHARCOAL 106730 SIZE: 24"X24"

INSTALLATION: NON DIRECTIONAL

PTF-1 MANUF: BPI SERIES: BPI SELECT, TRAVERTINE COLOR: GRAY SIZE: 12"X24" INSTALLATION: STACK BOND

GROUT: MAPEI, IRON 107

RUBBER BASE

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

<u>WALL</u> PAINT

PT-1 MANUF: SHERWIN WILLIAMS COLOR: GREEK VILLA SW 7551 FIELD COLOR

PT-2 MANUF: SHERWIN WILLIAMS COLOR: HIGH REFLECTIVE WHITE SW 7757 GYPSUM BOARD CEILING COLOR

PT-3 MANUF: SHERWIN WILLIAMS COLOR: SALTY DOG SW 9177 ACCENT COLOR

PT-4 MANUF: SHERWIN WILLIAMS COLOR: GAUNTLET GRAY SW 7019 ACCENT COLOR

PT-5 MANUF: SHERWIN WILLIAMS COLOR: BLACK MAGIC SW 6991 EXISTING DOOR FRAME COLOR

PT-6 MANUF: SHERWIN WILLIAMS COLOR: GAUNTLET GRAY SW 7019 EXISTING DOOR PANEL COLOR

PT-7 MANUF: SHERWIN WILLIAMS COLOR: GECKO SW 6719 ACCENT CEILING COLOR

PORCELAIN WALL TILE

PTW-1 MANUF: FLORIDATILE SERIES: AMPLIFY COLOR: BRANCO BRILHO SIZE: 12"X24" INSTALLATION: STACK BOND GROUT: MAPEI, IRON 107

PTW-2 MANUF: BPI SERIES: SOHO MOSAIC COLOR: RETRO BLACK, GLOSSY SIZE: 2"X6" HERRINGBON GROUT: MAPEI, IRON 107

WOOD SLATS

NOTE: CONTRACTOR TO MATCH PLASTIC LAMINATE COLOR AND SUBMIT STAIN SAMPLES TO BE APPROVED BY ARCHITECT.

WD-1 SPECIES: MAPLE FINISH: TBD BY ARCHITECT SIZE: PER DETAIL

WALLCOVERING (ALTERNATE #1) WC-1 MANUF: WRITEWALLS

SERIES: WRITENOW 60"

CEILING

ACOUSTICAL CEILING TILE

ACT-1 MANUF: CERTAINTEED SERIES: SYMPHONY F, TRIM COLOR: WHITE SIZE: 24"X24", 9/16" EXPOSED TEE GRID THICKNESS: 5/8"

GYPSUM BOARD CEILING

GBC-1 TYPE: TAPERED CEILING DRYWALL COLOR: FINISH AS SCHEDULED THICKNESS: 5/8"

WALL PROTECTION

CORNER GUARD

CG-1 MANUF: INPRO 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

PLASTIC LAMINATE PARTITIONS

TOILET PARTITIONS

PLP-1 MANUF: FORMICA COLOR: PECAN WOODLINE 5883-58 FINISH: MATTE

MILLWORK

SOLID SURFACE

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

PLAM-1 MANUF: FORMICA

PLASTIC LAMINATE

COLOR: PECAN WOODLINE 5883-58 FINISH: MATTE LOCATION: CABINETS - EXTERIOR & DOORS

TRANSITION TRIM

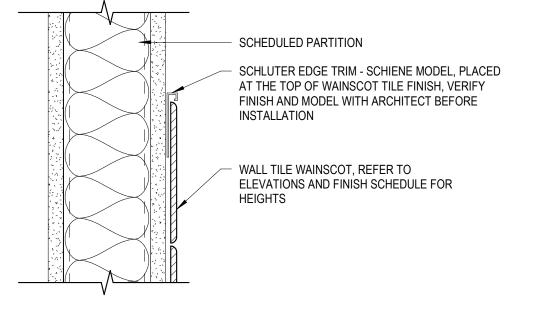
NOTE: CONTRACTOR TO VERIFY PROFILE REQUIRED FOR FINISHES SPECIFIED. REFER TO INTERIOR FINISH PLAN FOR LOCATIONS.

TR-1 MANUF: SCHLUTER SYSTEMS SERIES: SCHIENE/JOLLY FINISH: AE SATIN ANODIZED ALUMINUM LOCATION: WALL TILE EDGE & CORNERS

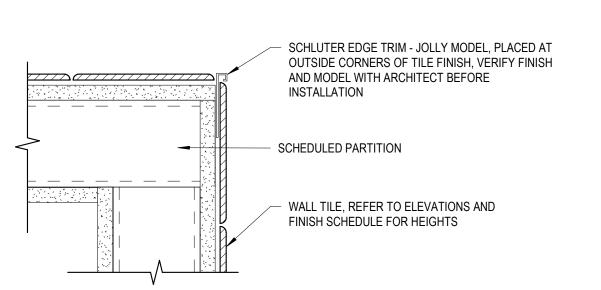
TR-2 MANUF: SCHLUTER SYSTEMS SERIES: RENO-U FINISH: AE SATIN ANODIZED ALUMINUM LOCATION: FLOOR TRANSITIONS

TR-3 MANUF: SCHLUTER SYSTEMS SERIES: DILEX-AHK FINISH: AE SATIN ANODIZED ALUMINUM LOCATION: WALL TO FLOOR TILE

TRANSITION - RESTROOMS

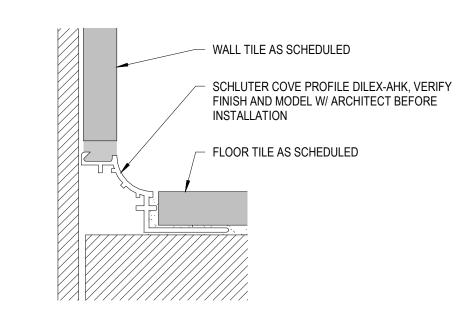


1 DETAIL - TYP. WALL TILE EDGE
SCALE: 3" = 1'-0"



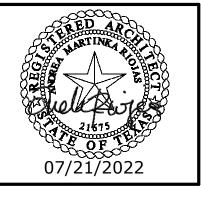
DETAIL - TYP. WALL TILE OUTSIDE CORNER

SCALE: 3" = 1'-0"

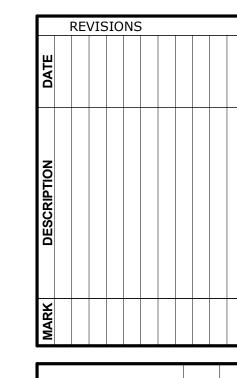


3 DETAIL - TYP. WALL TO FLOOR TILE

SCALE: 12" = 1'-0"







WORKFORCE SOLUTIONS
PHASE II RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

202217 CONSTRUCTION PHASE: DOCUMENTS ISSUE DATE: 07/21/2022 DRN. BY: CKD. BY:





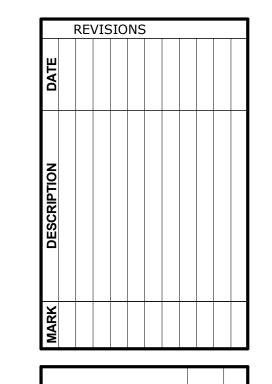
NOTE:

DASHED LINE REFERS TO OVERHEAD

ACOUSTICAL CEILING EDGE

architects & associates

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



WORKFORCE SOLUTIONS
PHASE II RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

JOB NO. 202217
PHASE: CONSTRUCTION DOCUMENTS

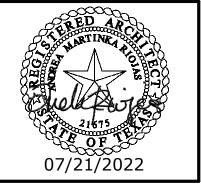
ISSUE DATE: 07/21/2022
DRN. BY: Author
CKD. BY: Checker



FFE PLAN LEGEND

EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.

FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS. FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.



architects & associates

615 N. Upper Broadway

Suite 1250

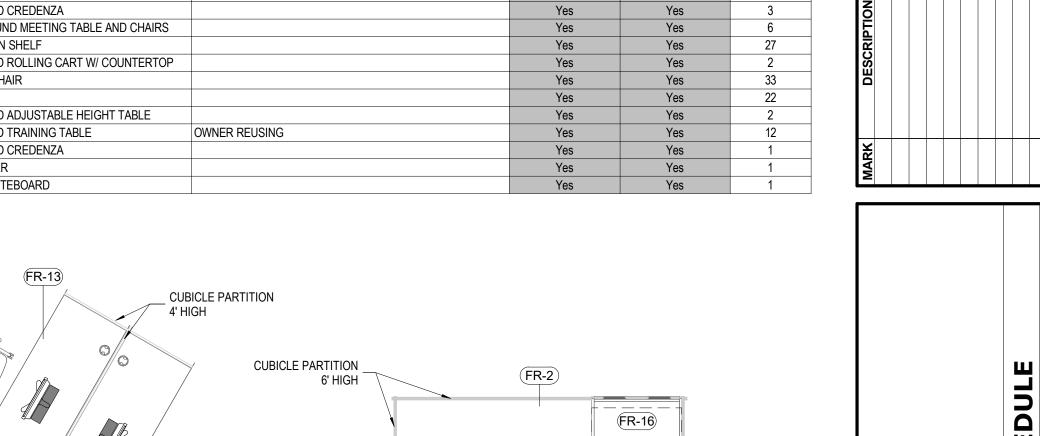
78401-0750

Corpus Christi, TX

REVISIONS

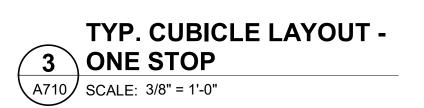
EQUIPMENT SCHEDULE			
COMMENTS	OWNER PROVIDED	OWNER INSTALLED	COUNT
	Yes	Yes	1
	Yes	Yes	1
	Yes	Yes	7
	Yes	Yes	1
	Yes	Yes	3
	Vaa	Vaa	2

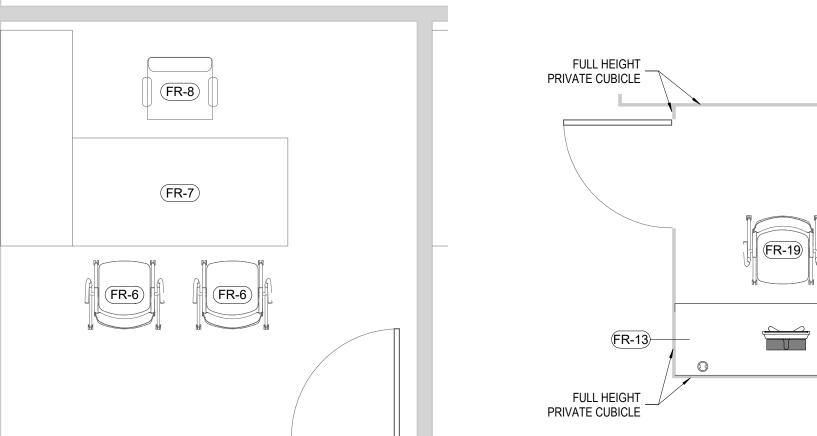
	FURNITURE SCHEDULE								
TAG	MODEL	COMMENTS	OWNER PROVIDED	OWNER INSTALLED	COUN				
FR-1	CUBICLE GUEST CHAIR		Yes	Yes	27				
FR-2	96" W X 24" D DESK		Yes	Yes	27				
FR-3	30" W LATERAL FILE 2 DRAWER		Yes	Yes	27				
FR-4	ADJUSTABLE TASK CHAIR	OWNER REUSING	Yes	Yes	30				
FR-5	36" W X 24" D DESK		Yes	Yes	27				
FR-6	OFFICE GUEST CHAIR		Yes	Yes	8				
FR-7	72" W X 36" D DESK		Yes	Yes	4				
FR-8	OFFICE CHAIR	OWNER REUSING	Yes	Yes	4				
FR-9	LOUNGE CHAIR		Yes	Yes	2				
FR-10	30" DIA. ROUND TABLE		Yes	Yes	1				
FR-11	72" W X 36" D CONFERENCE TABLE AND CHAIRS		Yes	Yes	1				
FR-12	LOUNGE SOFA		Yes	Yes	1				
FR-13	72" W X 24" D DESK		Yes	Yes	20				
FR-14	72" W X 24" D CREDENZA		Yes	Yes	3				
FR-15	36" DIA. ROUND MEETING TABLE AND CHAIRS		Yes	Yes	6				
FR-16	UPPER OPEN SHELF		Yes	Yes	27				
FR-17	48" W X 36" D ROLLING CART W/ COUNTERTOP		Yes	Yes	2				
FR-18	TRAINING CHAIR		Yes	Yes	33				
FR-19	TASK CHAIR		Yes	Yes	22				
FR-20	48" W X 24" D ADJUSTABLE HEIGHT TABLE		Yes	Yes	2				
FR-21	72" W X 18" D TRAINING TABLE	OWNER REUSING	Yes	Yes	12				
FR-22	48" W X 24" D CREDENZA		Yes	Yes	1				
FR-23	MAIL SORTER		Yes	Yes	1				
FR-24	MOBILE WHITEBOARD		Yes	Yes	1				





MODEL







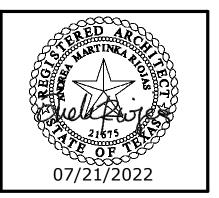
CUBICLE LAYOUT -SCALE: 3/8" = 1'-0" WORKFORCE SOLUTIONS PHASE II RENOVATION

CUBICLE PARTITION 6' HIGH

4981 AYERS STREET CORPUS CHRISTI, TX 78415

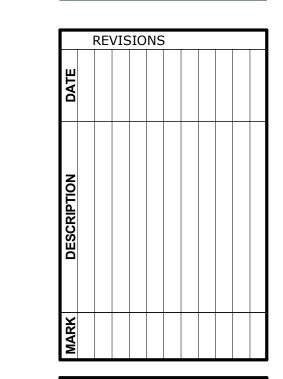
OB NO.	202217
PHASE:	CONSTRUCTION DOCUMENTS
SSUE DATE:	07/21/2022
DRN. BY:	KD
CKD. BY:	AR

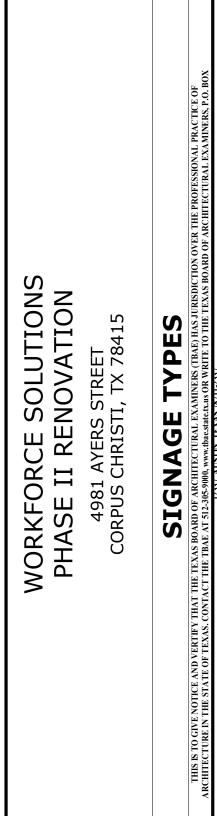




ALL SIGNAGE MOUNTED TO ADJACENT SIDELITE SHALL HAVE BACKER PANEL.







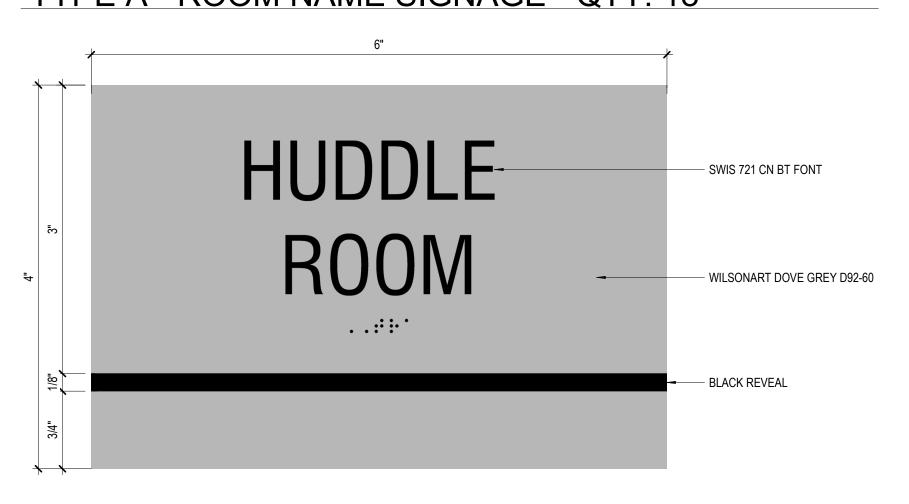
JOB NO. 202217
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CKD. BY: AR

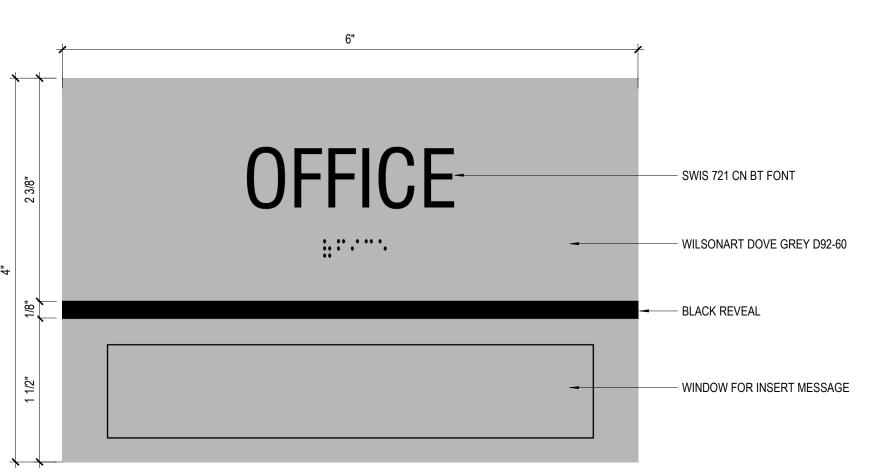
SHEET NUMBER

A810

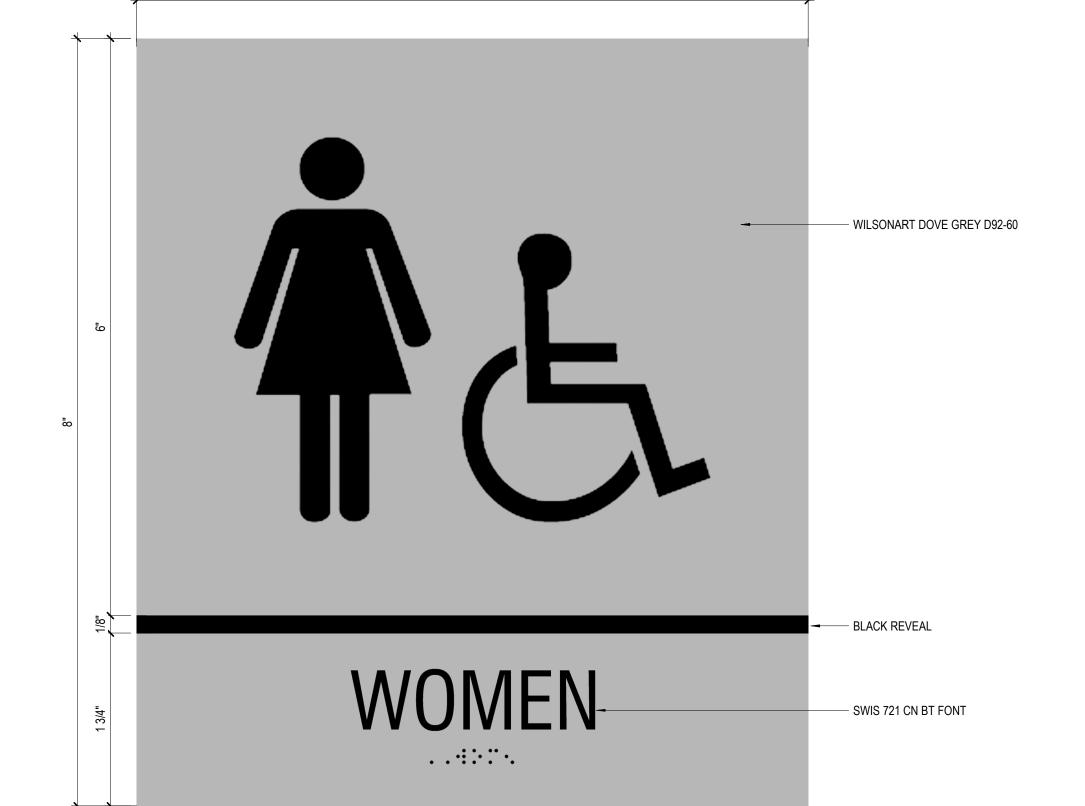
TYPE A - ROOM NAME SIGNAGE - QTY: 18



TYPE B - ROOM NAME W/ INSERT SIGNAGE - QTY: 4



TYPE C - ROOM NAME W/ SYMBOL SIGNAGE - QTY: 2



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. Only larger sleeve openings and framed openings in structural framing component members are indicated on the Structural Drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to Mechanical, Electrical and Plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the Structural Drawings, but required as noted above, shall be submitted to the Engineer for
- D. Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.
- E. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the
- F. The details designated as "Typical Details" apply generally to the Drawings in all areas where conditions are similar to those described in the details.
- G. 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.
- H. The building is existing and G&M anticipates the structure was designed and constructed to all building codes and standards at the time of construction.
- I. 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.
- J. Where conflict exists among the various parts of the structural contract documents, structural drawings, structural general notes, and specifications, the strictest requirements, as indicated by the Engineer, shall govern.
- K. 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. <u>SUBSTITUTIONS</u>

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) and / or TDI and the ICCES reports and/or TDI Certifications are included in the request. Submittals not satisfying the above criteria

III. MAINTENANCE STATEMENT

will not be considered.

A. All structures require periodic maintenance to extend lifespan 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, pressure washing of exposed structural elements exposed to a salt environment or other harsh chemicals and maintaining positive drainage away from the edge of the building.

1**V. <u>CODES</u>** Δ The

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 Amendements.
2. International Building Code, 2015 Edition with City of Corpus Christi Amendments. [Note: Most stringent wind pressures must be met for allowable stress no exceptions]

V. <u>SUBMITTALS</u>

- 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 clouded.
- 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 date. Submittals which do not reflect the contractor's approval, signature and date will be returned without review.
- C. The contractor shall be responsible for delays caused by rejection of inadequate shop drawings.
- D. 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.
- E. 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 other contractors.
- F. General Contractor shall submit a PDF copy of submittal for review. Engineer will review and comment for distribution to architect, owner, and contractor. General Contractor will be responsible for providing and distributing Engineers comments to their subcontractors.
- G. Submittal List and Schedule The General Contractor shall prepare a detailed list and schedule of al submittal items to be sent to the Structural Engineer prior to the start of construction. This list shall be updated and revised and kept current as the job progresses. The submittal list shall be organized as shown below:
- 2. Manufacturers literature for products, assemblies and hardware
 3. Products, assemblies and hardware
- 4. Product certifications, mill certificates and affidavits
 5. Texas Windstorm or Florida Building code Certification of all component and
- cladding items.

 H. Structural Shop Drawings
- The General Contractor shall submit for Engineer review shop drawings for the following items:

 Miscellaneous Steel
 Unistrut Framing
- 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.

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.

- of furnishing and installing such materials, regardless of whether the shop drawings have been reviewed and approved.

 1. Manufacturers Literature Submit two copies of manufacturer's literature for all
- Manufacturers Literature Submit two copies of manufacturers literature for a materials and products used in the construction of the project.
 J. Reproduction The use of reproductions of these contract documents by an contractor, subcontractor, erector, fabricator, or material supplier in lieu of

preparation of shop drawings signifies his acceptance of all information shown

hereon as correct, and obligates himself to any job expense, real or implied,

VI. STRUCTURAL STEEL

All hot rolled steel members shall be new domestic, and conform to ASTM specification A6.
 ASTM Specification and Grade. Clearly mark the grade on each member.
 Unless noted otherwise structural steel members shall be:

arising due to any errors that may occur hereon

a. Angles shall conform to ASTM A36.
b. Structural steel plate shall conform to ATSM A572 Grade 50.
See details for specific requirements.

B. Fabrication

 Fabricate and assemble structural assemblies in shop to greatest extent possible. Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the AISC Code of Standard Practice unless noted otherwise.

thickness of 2.5 mils unless Sructural steel will be fire proofed.

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.
 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

C. Erection

- Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.
 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:
- All embedded plates in concrete exposed to earth weather
- Building cladding support steel in space not air conditioned and/or exposed to
 moisture outside the exterior waterproofing surface if any.
 Roof Mechanical support steel.
- 4. 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.

VII. STRUCTURAL STEEL CONNECTIONS

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

VIII. 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. Structural steel: Field inspection of proper erection of all members, visual examination of all field welding, visual inspection of all bolts, and inspection of all shop fabricated members upon arrival at the jobsite for conformance with accepted fabrication and erection drawings, verification of welder's certificates.
- C. Special Inspections: Special Inspections shall be performed in accordance with Chapter 17 of the 2012 IBC by a Special Inspector hired by the Owner to perform the Special Inspections listed. The Special Inspector shall be qualified by an approved agency according to the City to perform the special inspections for which they will be 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 reports to the Registered Design Professional (RDPiRC) in Responsible Charge for all time 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 other listed in these Structural Notes or Project Specifications refer to the building permit for required special inspection. The Special Inspector shall provide a Special Inspection Report, upon completion of the erection of the structure; submit a final report to the owner and engineer that includes all the daily inspection reports, testing reports and special inspector qualifications.

IX. LIGHT GAUGE METAL STRUCTURAL MEMBERS

- 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 recommended by the manufacturer.
- E. Horizontal bracing for walls shall be provided at 4 ft o.c. maximum in accordance
- F. All power actuated fasteners shall be 0.157" diameter X—U fasteners as manufactured by Hilti with an embedment equal to 1½" inches 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 Identification1. All material 16 Ga or less shall meet the requirements of ASTM A653 with
- 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

- 3. Fastening of components shall be with #10 or #12 self tapping screws as
- noted in typical details.

 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.6. Thicknesses
- 18 GA = 0.0451" 16 GA = 0.0566"
- 14 GA = 0.0713" 12 GA = 0.1017"

I. Stu

- Use three studs at the corner of all exterior walls.
 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.
 7. All multiple studs attach together with 2-#12 TEK screws @ 12"o.c. vertically, no exceptions
- J. Attachments
- Use #10-16 screws for steel connection as noted as plans and typical details.
 A ¾" (minimum) clearance must be maintained from all edges of steel members in locating screws.
- members in locating screws.

 3. For attachment of single layer %" sheathing to steel studs, use 1¼" long #6—18 bugle head screws. 6"o.c. at panel edges and in the field typical. At the back side of parapets used 1¼", #6 screws @ 4"o.c. edges and at field.

K. System Components

 Slide clips are used for curtain wall conditions to accommodate 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.

X. CAST IN PLACE CONCRETE

A. CLASSES OF CONCRETE

All concrete shall conform to the requirements as specified in the table below unless noted otherwise on the drawings:

Concrete Mix Schedule:

Conc. Class	Strength psi	Agg. Type	Agg. Size	Slump Inches	Max w/c	Notes	
Α	3000	NWT	1 1/2"	4			

- a) "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASTM 33 aggregate).
 b) Where w/c ratio is not indicated in the Concrete Mix Scheduler
- weight of approximately 145 PCF (ASIM 33 aggregate).
 b) Where w/c ratio is not indicated in the Concrete Mix Schedule, it shall be as necessary to meet strength requirements.
 c) "Strength" is required compressive cylinder strength at an age of 28 days
- Description of Use Concrete Class Content

 All U.N.O. A
- B. Maximum shrinkage of the concrete shall be 0.03% at 28 days as determined by 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 the Architect and Structural Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.

D. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318-95, Section 6.3, including the following:

Conduits and pipes embedded within a wall, or beam (other than those passing through) shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam in which they are embedded.
 Conduits, pipes and sleeves shall not be spaced closer than three diameters or

XI. 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

3. There shall be no conduits or pipes running within the slab thickness or beam.

- 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
- C. In unscheduled Slabs and Beams detail reinforcing as follows:

detailing standards unless shown otherwise.

- Class B Lap beam top reinforcing bars at mid span.
- Provide Class B lap at other location pending Engineer's approval.
 Provide standard hooks in top bars and bottom bars at discontinuous ends.
 Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.
- D. Welding of reinforcing steel will not be permitted unless specifically shown on
- E. Heat shall not be used in the fabrication or installation of reinforcement.
- F. Reinforcing steel clear cover shall be as follows:
- 1. Slab-On-Fill Centered
 2. Grade Beams 3" Bottom, 3" Sides, 1½" Top
 3. Housekeeping pads Centered



13313 Southwest Freeway, Suite 163
Sugar Land, Texas 77478
(281) 494-1230 (voice)
(281) 494-1234 (fax)
FIRM NO.: FEXPIRATION: 5-21
(281) 494-1234 (fax)



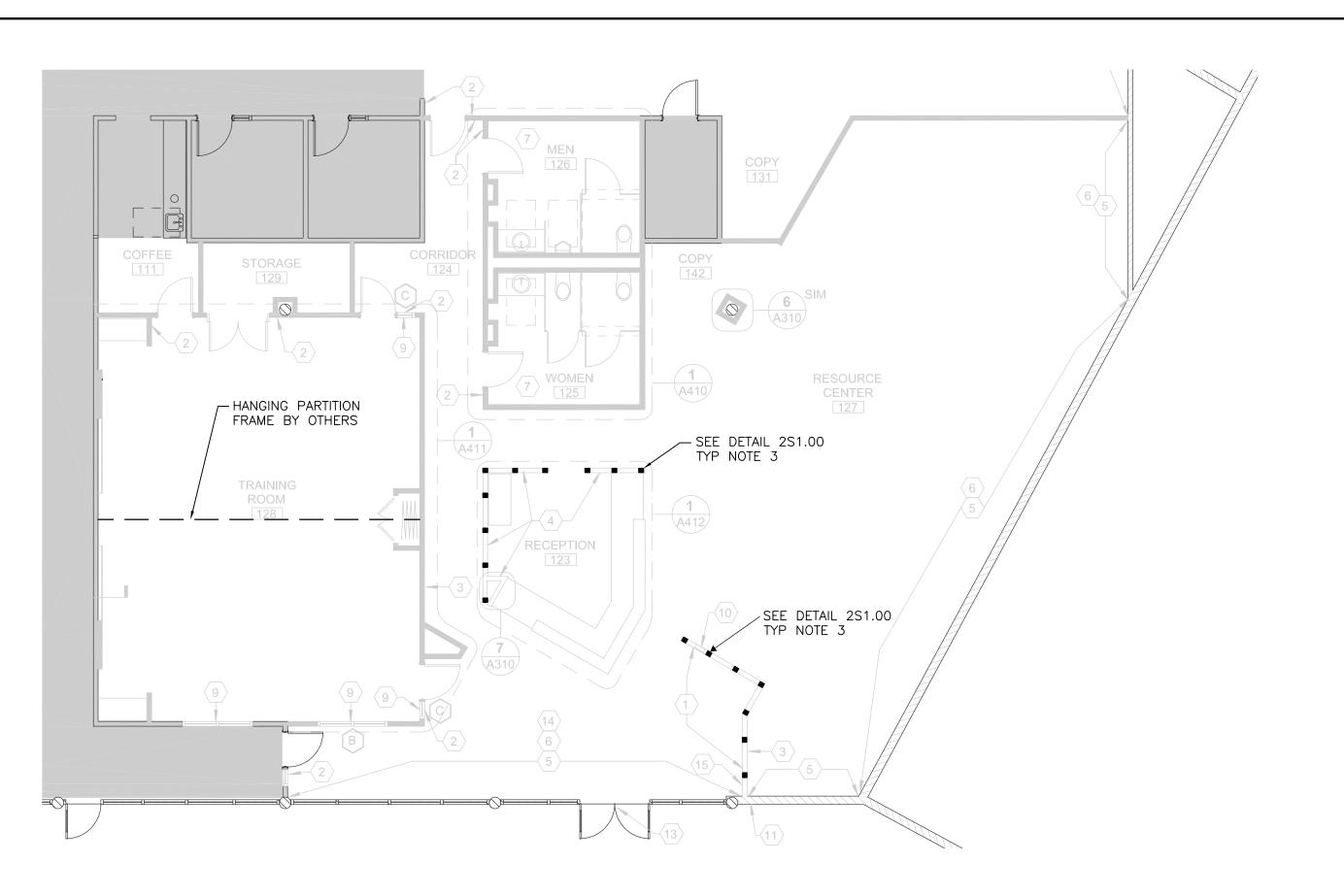


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WORKFORCE SOLUTIONS
PHASE II RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

JOB NO. 202217
PHASE: CONSTRUCTION DOCUMENTS
ISSUE DATE: 07/21/2022
DRN. BY:

CKD. BY:



<u>PLAN NOTES:</u>
1. REFER STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION. 2. REFER TO ARCH'L AND MEP DRAWINGS FOR ADDITIONAL INFORMATION.

3. LOCATE AS NOTED ON PLANS OR PER ARCH'L AND MECHANICAL DRAWINGS. 4. THE CONTRACTOR SHALL FIELD VERIFY AND/OR DETERMINE ALL EXISTING DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS AND DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT

AND ENGINEER OF ANY DISCREPANCIES OR SPECIAL CONDITIONS FOR WHICH DETAILS FOR NEW CONSTRUCTION HAVE NOT BEEN PROVIDED PRIOR TO PROCEEDING WITH THE WORK NO EXCEPTION.

5. 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 ARCHITECT OR ENGINEER. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION REQUIRED BY THE SUB CONTRACTOR 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 EXCEPTION.

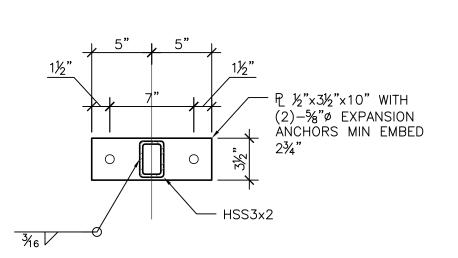
REFERENCE FLOOR PLAN

— 3%" TRACK ATTACHED WITH 0.157"ø X—U

— GYP SHEATHING

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

GYP SHEATHING

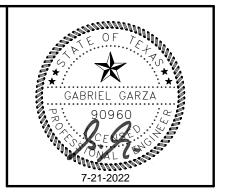


DETAIL SCALE: 3/4" = 1'-0" TYPCIAL BASE PLATE SCALE: 1 1/2" = 1'-0"

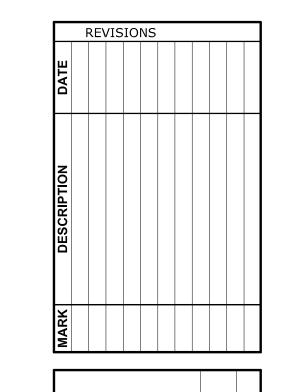


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JOB NO.:



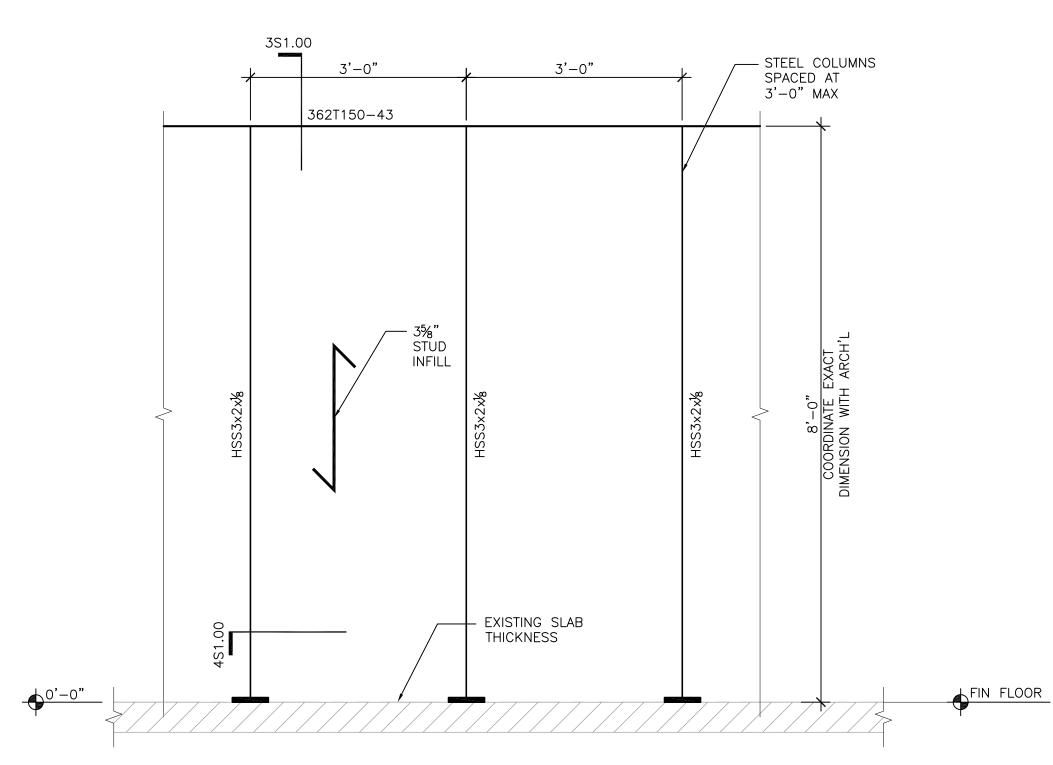




CONSTRUCTION PHASE: DOCUMENTS SSUE DATE: DRN BY:

CKD. BY:

SHEET NUMBER



NOTE: SEE ARCH'L DRAWINGS FOR EXACT LOCATION

WALL ELEVATION FRAME

NORTH



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
- 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.

OWNER'S REPRESENTATIVE.

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

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

OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE

EXHAUST FANS: FURNISH AND INSTALL EXHAUST FANS IN THE LOCATION AND OF THE SIZE AND CAPACITY SHOWN ON THE DRAWINGS. EXHAUST FANS SHALL BE CEILING CABINET IN-LINE EXHAUST FANS WITH PLASTIC HOUSING AND GRILL. SUPPORT FAM WITH VIBRATION ISOLATORS FROM ROOF STRUCTURE NOT FROM THE CEILING. PROVIDE TERMINATION CAP AS INDICATED ON THE DOCUMENTS. FANS SHALL BE DIRECT DRIVE WITH A SPEED CONTROL RELAY TO BALANCE THE FAN AT THE CFM'S SCHEDULED. FAN TO BE EQUIPPED WITH INTERGRAL BACKDRAFT DAMPER AND SWITCHED LOCALLY AS INDICATED ON THE DOCUMENTS. APPROVED MANUFACTURERS ARE GREENHECK, COOK, AND PENN.

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

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

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 INLENGTH. FLEXMASTER 8M OR APPROVED

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

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

AUTOMATIC TEMPERATURE CONTROL: PROVIDE FOR EACH HVAC UNIT, LOW VOLTAGE

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

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA AND NRCA STANDARDS.

LOCATION WITH ARCHITECT.

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 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

PITCH POCKETS AS REQUIRED.

- 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
- 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

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

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	MINIMUM PIPE INSULATION (INCH)		MINIMUM DUCT INSULATION (R)
	NOMINAL	PIPE DIA.	
FLUID	≤ 1.5"	> 1.5"	UNCONDITIONED SPACE ≥ 5 OUTSIDE BLDG, ENVELOPE ≥ 8
STEAM	1 - 1/2	3 - 1/2	EXCEPTIONS:
HOT WATER	1	1 - 1/2	1. WHEN LOCATED WITHIN EQUIPMENT. 2. WHEN DESIGN TEMP.
CHILL WATER OR REFRIGERANT	1	1	DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES

NOT EXCEED 15 FT.

MECHANICAL NARRATIVE

THE HVAC SYSTEM CONSISTS OF FOUR EXISTING DX PACKAGE

ROOFTOP UNITS WITH ELECTRIC HEAT.

THE EXHAUST FANS SHALL BE INTERLOCKED WITH THE RESTROOM

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.

SYSTEM COMMISSIONING

THIS BUILDING SHALL BE COMMISSIONED BY A THIRD PARTY CERTIFIED COMMISSIONING AGENT. THE TEST AND BALANCE CONTRACTOR MAY PROVIDE THIS WORK PROVIDED THEY HAVE THE APPROPRIATE CERTIFICATIONS THE CONTRACTOR SHALL PROVIDE SUPPORT AND WORK AS SPECIFIED. AS NEEDED AND AS REQUIRED TO CONDUCT AND FACILITATE THE COMMISSIONING STAFF'S (CX) COMMISSIONING EFFORTS. THIS WORK WILL BE COMPRISED OF THREE DISTINCT EFFORTS: 1) SUPPORT COMMISSIONING (CX) AGENT DURING INSTALLATION VERIFICATION AND CORRECT DISCLOSED DEFICIENCIES; 2) PERFORM TESTING ADJUSTING, BALANCING AND SYSTEM STARTUP AND SUPPORT FUNCTIONAL PERFORMANCE TESTING BY THE CX; 3) CORRECT DEFICIENCIES DISCLOSED BY FUNCTIONAL PERFORMANCE TESTING AND SUBMIT REPORTS. CONTRACTOR SHALL PERFORM AND PROVIDE THE

- A. SYSTEMS SUBJECT TO COMMISSIONING INCLUDE BUT ARE NOT LIMITED TO HVAC HOT WATER GENERATION AND LIGHTING CONTROLS BUILDINGS WITH LESS THAN 40 TONS (480 000 BTUH) OF AIR CONDITIONING AND DOMESTIC HOT WATER GENERATION SYSTEMS LESS THAN 600,000 BTUH ARE NOT REQUIRED TO HAVE THESE SYSTEMS COMMISSIONED, PER
- IECC 2015 SECTION C408.2. . THE CONTRACTOR SHALL INCLUDE COMMISSIONING ACTIVITIES IN PROJECT SCHEDULE AND SHOW INTERVALS FOR PERFORMANCE OF WORK FOR WHICH CONTRACTOR IS RESPONSIBLE AND INTERVALS FOR WORK PERFORMED BY THE CX AGENT. THE CONTRACTOR SHALL SHOW RESOURCES FOR PERFORMING ALL WORK RELATED TO COMMISSIONING ACTIVITIES ON A LINE ITEM IN THE SCHEDULE OF VALUES.
- CONTRACTOR SHALL INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND ALL CONTRACT DOCUMENTS ENSURE THAT ALL EQUIPMENT IS INSTALLED. TOTALLY COMPLETE. AND ACCESSIBLE TO THE CX FOR INSTALLATION VERIFICATION AND FUNCTIONAL PERFORMANCE TESTING.
- OUR CONTRACTOR SHALL ENSURE EQUIPMENT INSTALLATION IS COMPLETE AND CONFORMS TO THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND REQUIREMENTS PRIOR TO THE SCHEDULED START OF INSTALLATION VERIFICATION. . INSTALLATION VERIFICATION SHALL BE PERFORMED BY THE CX. THE CONTRACTOR SHALL SUPPORT THE CX

INSTALLATION VERIFICATION EFFORTS AS NECESSARY. PROVIDE ALL ACCESS AND EQUIPMENT NECESSARY FOR CX'S STAFF TO VERIFY THAT THE EQUIPMENT IS INSTALLED CORRECTLY THE CONTRACTOR SHALL BE READILY AVAILABLE DURING INSTALLATION VERIFICATION TO IMMEDIATELY CORRECT ANY DEFICIENCIES OR DEFECTS DISCLOSED BY THE INSTALLATION VERIFICATION PROCESS. CORRECTIONS SHALL BE MADE IN A TIMELY MANNER WITHOUT DISRUPTION OF THE CONSTRUCTION SCHEDULE. . THE CONTRACTOR SHALL INFORM THE CX WHEN EQUIPMENT IS

READY FOR FUNCTIONAL PERFORMANCE TESTING. ALL EQUIPMENT SHALL BE READY FOR FUNCTIONAL PERFORMANCE TESTING PRIOR TO STARTING TESTING. CONTRACTOR SHALL OPERATE EQUIPMENT FOR THE CX AND VERIFY BY DEMONSTRATION CORRECT OPERATION OF EQUIPMENT RESPONSE OF SENSORS AND PROPER EXECUTION OF LIGHTING CONTROLS AND SEQUENCES: INCLUDING BUT NOT LIMITED TO OCCUPANCY SENSORS, TIME CLOCKS, AND/OR OTHER EQUIPMENT AS NEEDED. FOR THE COMMISSIONING AGENT TO EFFICIENTLY WITNESS AND DOCUMENT ALL EQUIPMENT TESTING. THE CX WILL RECORD THE EQUIPMENT OPERATION AND RESPONSE TO TESTING SEQUENCES AND PREPARE A LIST OF ANY DEFICIENCIES DISCLOSED BY THE FUNCTIONAL PERFORMANCE TESTS FOR CORRECTION BY THE CONTRACTOR. EQUIPMENT IS LIMITED TO THE LIGHTING CONTROLS. THE LIGHTING CONTROLS SHALL BE TESTED IN ACCORDANCE WITH IECC 2015 SECTION 408.3. H. DELIVERABLES: PROVIDE COMPLETED COPIES OF ALL START UP REPORTS, FILLED OUT ON THE MANUFACTURER'S FORMS TO THE

THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY ISSUES DEFICIENCIES DISCLOSED DURING THE INSTALLATION VERIFICATION AND FUNCTIONAL PERFORMANCE TESTING PROCESS. CORRECTIONS SHOULD BE MADE IN A TIMELY MANNER WITHOUT DISRUPTION TO THE SYSTEM AND CONSTRUCTION SCHEDULE

COMMISSIONING AGENT

. CONTRACTOR SHALL BE READILY AVAILABLE FOR ANY RE-TESTING OF EQUIPMENT DEEMED NECESSARY BY THE CX DURING FUNCTIONAL PERFORMANCE TESTING, CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY ISSUES OR DEFICIENCIES FOUND IN THE SYSTEM DURING ANY AND ALL RE-TESTING. CORRECTIONS SHOULD BE MADE IN A TIMELY MANNER WITHOUT DISRUPTION TO THE SYSTEM AND CONSTRUCTION SCHEDULE. DELIVERABLES: FINAL BALANCE REPORT, DEFICIENCIES LIST NOTING CORRECTIVE ACTIONS PERFORMED BY CONTRACTOR IN RESPONSE TO INSTALLATION VERIFICATION AND FUNCTIONAL PERFORMANCE TEST RESULTS. . CONSTRUCTION AND POST CONSTRUCTION TESTING: ADDITIONAL TESTING WILL BE REQUIRED BY THE OWNER AND OTHER PROCESSES

THAT MAY OCCUR OUT OF SEQUENCE WITH COMMISSIONING SERVICE. CONTRACTOR SHALL CONDUCT, DOCUMENT, SUPPORT AND SCHEDULE THIS TESTING AS DIRECTED BY THE CX. THE CONTRACTOR SHALL SUBMIT A COPY OF THE PRELIMINARY COMMISSIONING REPORT PROVIDED BY THE COMMISSIONING AGENT TO

THE OWNER'S REPRESENTATIVE. ARCHITECT. ENGINEER OF RECORD. AND THE CITY PRIOR TO FINAL INSPECTION. THE PRELIMINARY REPORT SHALL CONSIST OF AN ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING THAT HAVE NOT BEEN CORRECTED, DEFERRED TEST DUE TO CLIMATIC CONDITIONS, AND THE CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TEST.

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

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.

 $_$ END OF SECTION $_$

SYSTEMS START-UP REQUIREMENTS CONTRACTOR SHALL PROVIDE AN EQUIPMENT OPERATION CHECK (EOC). EOC TO PROVIDE 6. GAS HEATING SYSTEM (WHEN SPECIFIED):

JOB SITE REQUIREMENTS PRIOR TO EOC:

UNIT INSTALLATION CHECK:

ELECTRICAL SYSTEM CHECK:

COMPLETE INSTALLATION OF ROOFTOP UNIT PER MECHANICAL DRAWINGS.

SPECIFICATIONS AND THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION

ROOFTOP UNIT MUST BE STARTED UP AND RUNNING 24 HOURS PRIOR TO ECC.

UNIT'S RETURN AIR FILTERS MUST BE NEW AND AT LEAST EQUIVALENT TO FACTORY

ALL FIELD INSTALLED HOODS ACCESSORIES MUST BE INSTALLED AND OPERATIONAL.

RECORD RTU #, UNIT C/N, UNIT MODEL #, AND UNIT SERIAL #.

ISOLATION AND WIND OR SEISMIC RESTRAINTS. VERIFY PER

CHECK UNIT CLEARANCES AND VERIFY INSTALLATION PER

THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION

CHECK DOOR ALIGNMENT AND ADJUST AS NECESSARY.

CHECK INSTALLATION OF CONDENSATE TRAP AND DRAIN

LINES PER THE PROJECT SPECIFICATIONS. DRAWING

CHECK AND NOTE INSTALLATION OF ANY ROOFTOP UNIT

MANUFACTURER'S PROVIDED ACCESSORIES PER THE

CHECK AND RECORD INCOMING POWER SUPPLY. VERIFY

VERIFY INSTALLATION AND PROPER SIZING OF ELECTRICAL

DISCONNECT OR CIRCUIT BREAKER INCLUDING WIRE SIZE.

VERIFY INSTALLATION OF WIRINT TO 120V CONVENIENCE

CHECK AND RECORD UNIT'S CONTROL TRANSFORMER(S)

SECONDARY VOLTAGE. ADJUST PER THE ROOFTOP UNIT

VERIFY LED HEARTBEAT ON ALL THE ROOFTOP UINIT

RECORD HARDWARE AND SOFTWARE VERSIONS OF ALL

VERIFY DIP SWITCHES ON ALL CONTROL BOARDS ARE SET

FOR OWNER SPECIFICATIONS PER THE ROOFTOP UNIT

MANUFACTURER'S INSTALLATION INSTRUCTIONS.

VERIFY ALL THE ROOFTOP UNIT MANUFACTURER'S

PROVIDED TEMPERATURE SENSORS READINGS ARE

CHECK BLOWER PULLEY SEY SCREWS FOR PROPER

START UNIT INDOOR BLOWER TO CHECK ROTATION

CORRECT AS NEEDED. VERIFY AND DRAW IS PER THE

CHECK COIL INTEGRITY AND CLEANLINESS. CLEAN AS

START EACH COMPRESSOR IN UNIT. CONFIRM PROPER

CHECK REFRIGERANT PRESSURES OF EACH CIRCUIT PER

RECORD TEMPERATURE DROP ACROSS THE EVAPORATOR

THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATION.

COIL IN FULL COOLING (ALL COMPRESSOR RUNNING).

ROTATION AND CORRECT AS NEEDED.

CORRECT CHARGE AS NEEDED.

ROOFTOP UNIT MANUFACTURERS SPECIFICATIONS AND

CHECK BELT TENSION AND ALIGNMENT AND ADJUST AS

MANUFACTURER'S PROVIDED CONTROL BOARDS.

CHECK ELECTRICAL CONNECTIONS AND TIGHTEN AS

PER THE ROOFTOP UNIT MANUFACTURER'S

CHECK UNIT INSTALLATION IS SECURE AND CLEAN.

DETAILS AND ROOFTOP UNIT MANUFACTURER'S

ROOFTOP UNIT MANUFACTURER'S INSTALLATION

CHECK CLEANLINESS OF UNIT AND AREA AROUND IT.

INSTALLATION INSTRUCTION.

DISPOSE OF ANY DEBRIS FOUND.

SPECIFICATIONS AND RECORD.

OUTLET (IF APPLICABLE).

INTEGRATED MODULAR CONTROLLER CHECK:

ACCURATE.

SUPPLY FAN SYSTEM CHECK:

COOLING SYSTEM CHECK:

MANUFACTURER'S SPECIFICATIONS

PROVIDED CONTROL BOARDS.

TORQUE. ADJUST AS NEEDED.

LEAK CHECK ALL CIRCUITS.

INSTRUCTIONS.

CHECK CURB INSTALLATION INCLUDING VIBRATION

OWNER SPECIFICATIONS AND THE ROOFTOP UNIT

MANUFACTURER'S INSTALLATION INSTRUCTIONS.

VERIFICATION AND DOCUMENTATION OF EQUIPMENT CONDITION, INTEGRITY OF INSTALLATION AND OPERATIONAL PERFORMANCE WITH REGARD TO THE SPECIFICATIONS. IT SHALL ALSO INCLUDE ALL ASSOCIATED COMPONENTS PROVIDED BY MANUFACTURER. THE RECORD FUEL TYPE. FOLLOWING EQUIPMENT AND INSTALLATION INTEGRITY CHECKS SHALL BE PERFORMED AS PART OF AN EOC. ANY INSTALLER DEFECTS SHALL BE NOTED AND ANY FACTORY DEFECTS CHECK INSTALLATION OF INTAKE AND EXHAUST HOODS. VERIFY SHALL BE REPAIRED. A REPORT FOR EACH UNIT ALONG WITH A SUMMARY REPORT FOR THE PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION JOB SITE WILL BE PROVIDED TO THE OWNER AND ENGINEER UPON COMPLETION. CHECK INSTALLATION OF GAS UNIONS. CHECK AND RECORD INCOMING GAS PRESSURE TO UNIT.

CHECK MANIFOLD GAS PRESSURE FROM THE OUTLET OF THE BAS VALVE(S) PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS. ADJUST AS NECESSARY. CHECK AND RECORD TEMPERATURE RISE ACROSS HEAT EXCHANGER IN FULL HEAT. G. CHECK OPERATION OF TEMPERATURE LIMIT. ELECTRICAL HEAT SYSTEM CHECK: (WHEN SPECIFIED):

> CHECK AND RECORD AMP DRAW OF THE HEATING ELEMENTS. CHECK HEATING SECTION OPERATION. RECORD TEMPERATURE RISE THRU UNIT IN FULL HEATING OPERATION architects & associates PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS. CHECK OPERATION OF TEMPERATURE LIMIT. VERIFY CO² SENSORS ARE OPERATIONAL PERFORM COOLING SIMULATION TEST. VERIFY COOLING

PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS. PERFORM VENTILATION SIMULATION TEST, VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.

STAGES PER OWNER'S SPECIFICATIONS.

THERMOSTAT/ UNIT CONTROLS SYSTEM CHECK: RECORD THERMOSTAT OR DDC SYSTEM MAKE, MODEL AND SERIAL NUMBER.

> VERIFY CLASS 2 CONTROLS WIRING INSTALLATION TO TERMINAL BOARD OF UNIT.

> > VERIFY THAT REMOTE SENSORS ARE OPERATIONAL.

VERIFY CO² SENSORS ARE OPERATIONAL. PERFORM COOLING SIMULATION TEST. VERIFY COOLING

PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS.

STAGES PER OWNER'S SPECIFICATIONS.

PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.

INDOOR AIR QUALITY SYSTEM CHECK: CHECK AND RECORD CONDITION AND TYPE OF FILTERS.

10. OUTDOOR AIR ACCESSORY CHECK: CHECK OPERATION OF ECONOMIZER OR MOTORIZED

> CLOSED. RECORD MINIMUM DAMPER POSITION AND ENTHALPY SETTING (IF PROVIDED).

CHECK ECONOMIZER CONTROL BOARD SETTINGS PER OWNER SPECIFICATIONS, RECORD SETTING. CHECK OPERATION OF BAROMETRIC RELIEF DAMPER IF

INSTALLED CHECK OPERATION OF POWER EXHAUST IF INSTALLED. CHECK MOTOR AMP DRAW PER THE ROOFTOP UNIT

OUTDOOR AIR DAMPER BY DRIVING IT FULL OPEN AND

MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CONTROL CHECK:

VERIFY COMPLETE INSTALLATION/OPERATION OF ALL THERMOSTATS AND TIME CLOCKS IF UTILIZED.

VERIFY COMPLETE INSTALLATION/OPERATION OF SMOKE DETECTOR/FIRE ALARM INTERFACE.

DUCT SYSTEMS AND AIR DISTRIBUTION:

VERIFY INSTALLATION CONFORMS TO DESIGN AND ALL PIECES OF AIR DISTRIBUTION. DUCTWORK, DIFFUSERS, AND GRILLES ARE COMPLETE AND PROPERLY INSTALLED.

VERIFY ALL MANUAL VOLUME DAMPERS ARE IN FULL OPEN OR NEUTRAL POSITION. EXHAUST FAN(S)

> VERIFY PROPER INSTALLATION/OPERATION AND FAN ROTATION.



ENGINEERING 5656 S. STAPLES, SUITE 360, CORPUS CHRISTI, TX 78411 P - 361.852.2727 F - 361.852.2922

TEXAS ENGINEERING FIRM NO. 005318 22059



Corpus Christi, TX

78401-0750

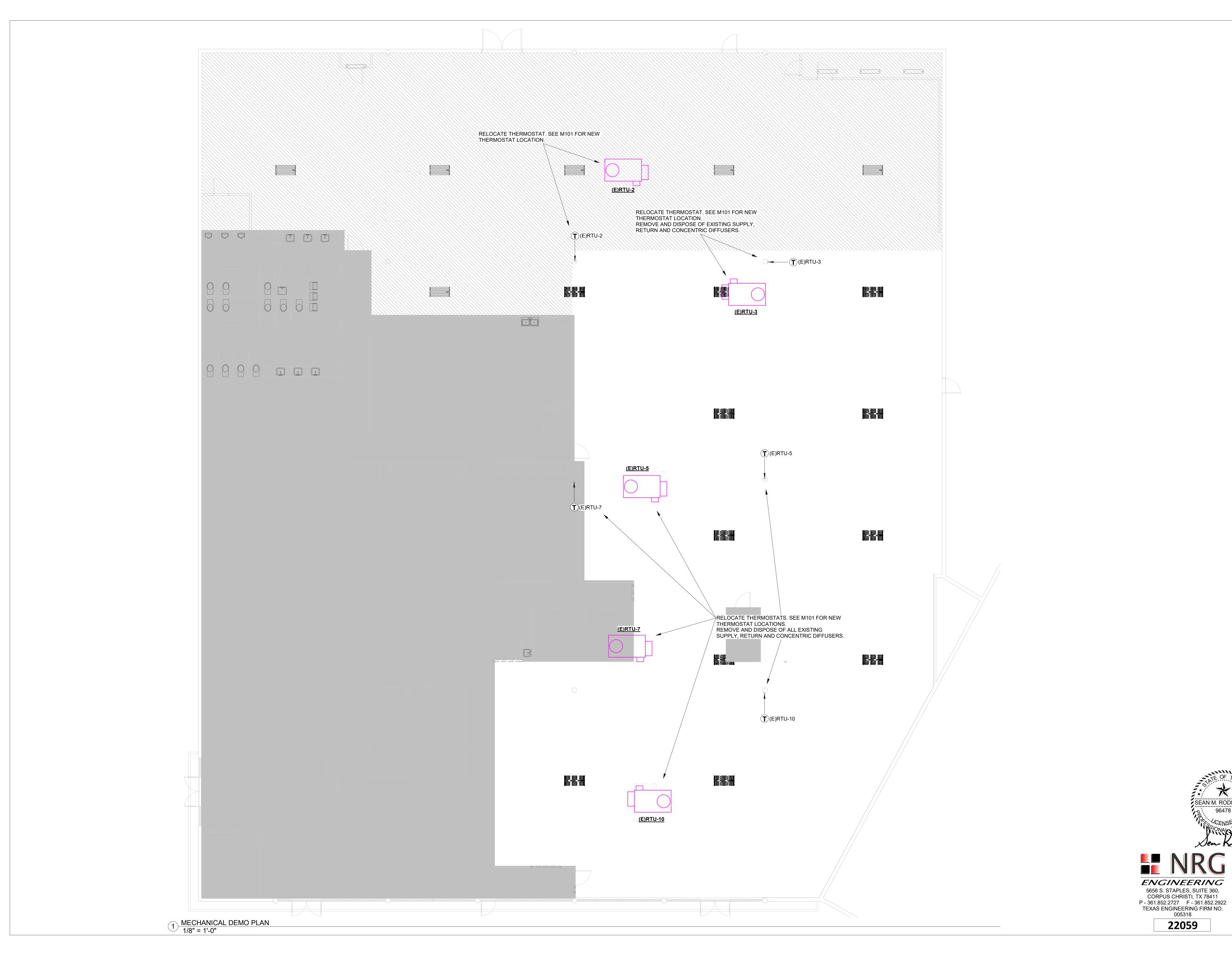
REVISIONS

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202217 PHASE: **ISSUE DATE** 07/21/2022 DRN. BY:

SHEET NUMBER

CKD. BY:





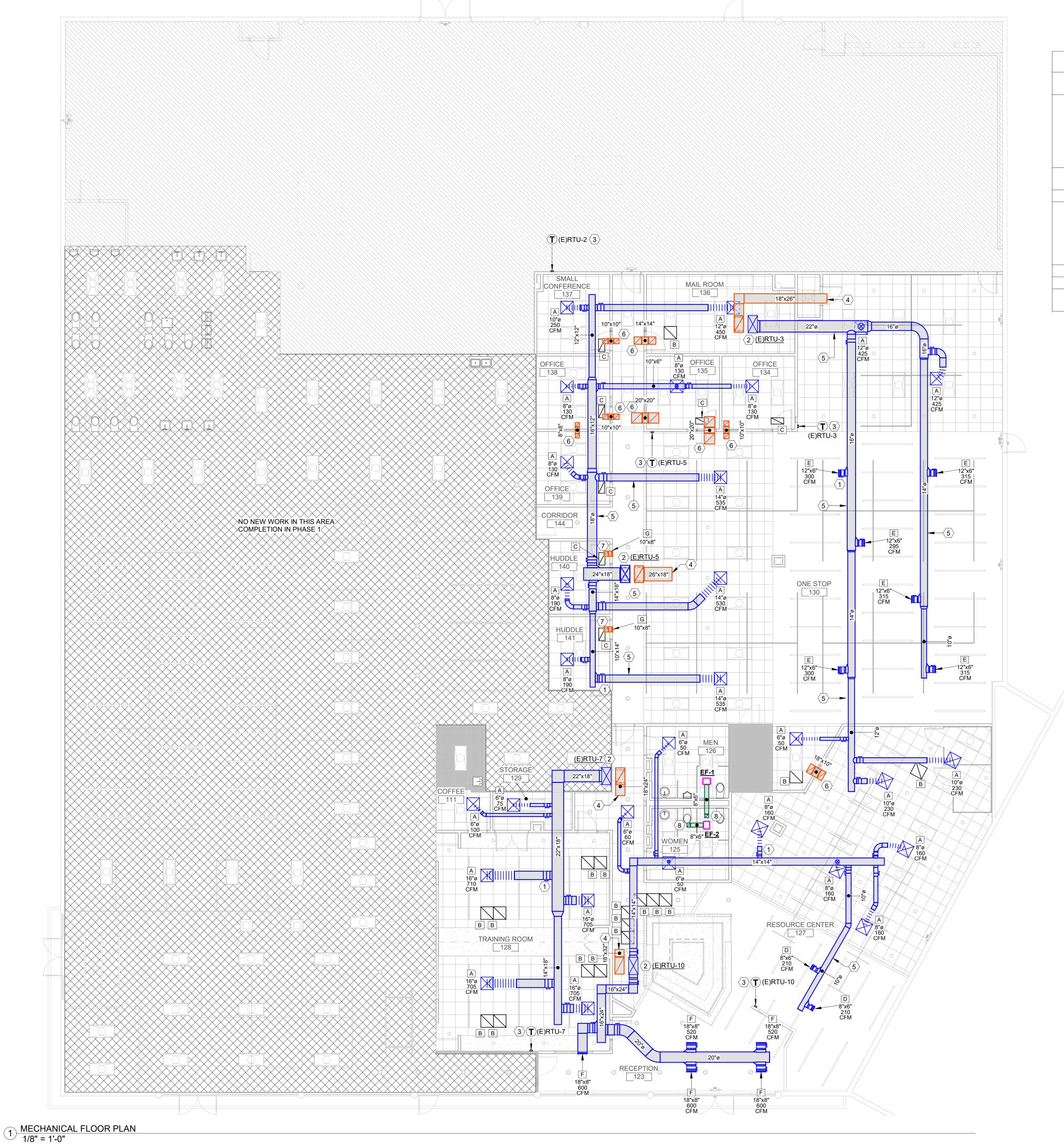
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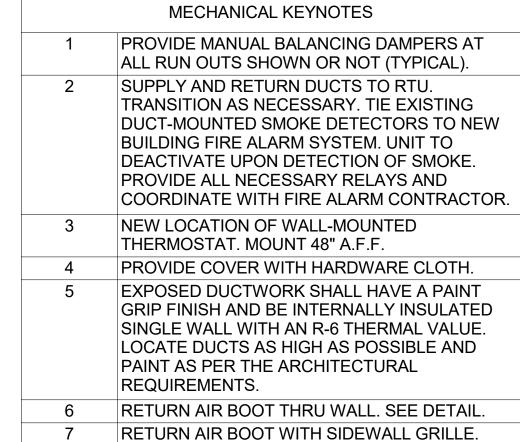
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22059

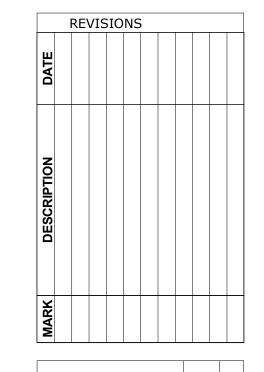




ROOF CAP.

RESTROOM EXHAUST UP THRU ROOF. PROVIDE





HASE II RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

WORKFORCE PHASE II REI

 JOB NO.
 202217

 PHASE:
 PH2

 ISSUE DATE:
 07/21/2022

ISSUE DATE: 07/21/2022
DRN. BY: CKK
CKD. BY: SMR

ENGINEERING

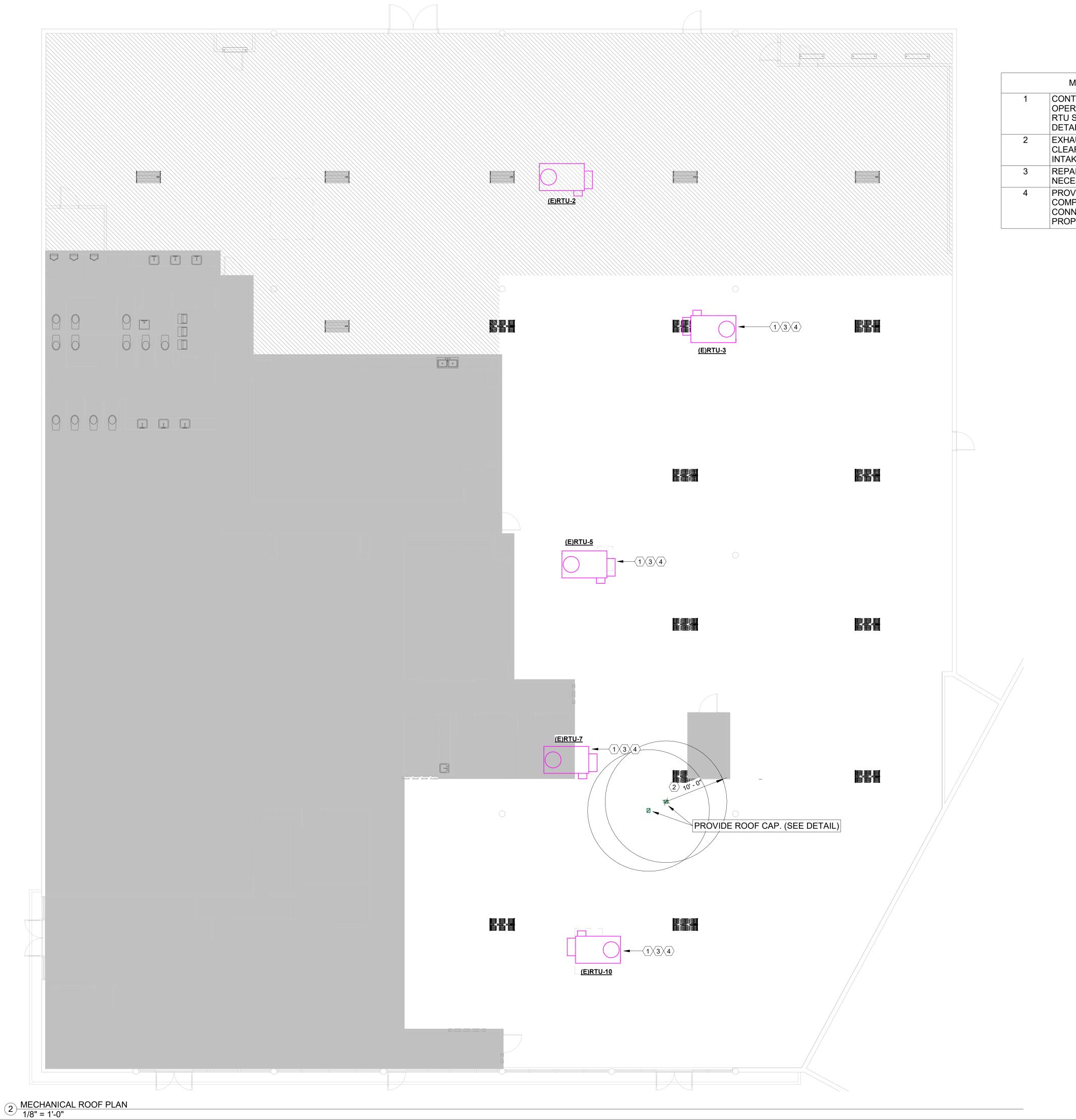
5656 S. STAPLES, SUITE 360,
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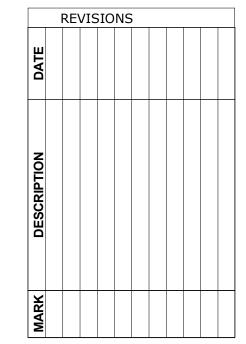
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- CONTRACTOR SHALL VERIFY UNIT OPERATION AND REPLACE FILTERS. SEE RTU SCHEDULE ON SHEET M201 FOR DETAILS.
- 2 EXHAUST OUTLET MUST HAVE MINIMUM 10' CLEARANCE FROM NEAREST OUTSIDE AIR INTAKE.
- REPAIR ALL CONDENSATE DRAIN LINES AS NECESSARY.
- PROVIDE CARRIER BACNET CONTROL CARD COMPATIBLE WITH OWNERS DDC SYSTEM. CONNECT TO EXISTING SYSTEM FOR PROPER OPERATION.





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005318

22059

HVAC GENERAL NOTES:

- A. THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS.
- B. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. C. INSULATE DUCTWORK AS FOLLOWS:
- 1. WRAP ALL INDOOR SUPPLY, RETURN, OUTSIDE AIR DUCT AND EXHAUST DUCT WITH THICK INSULATION WITH A THERMAL MIN. R-6 VALUE PER SPECIFICATIONS. THIS APPLIES TO CONCEALED DUCTWORK. 2. COVER ALL OUTDOOR SUPPLY AND RETURN DUCTS WITH 2" THICK RIGID BOARD INSULATION WITH A THERMAL MIN. R-8 VALUE PER SPECIFICATIONS. ALL OUTDOOR DUCTS SHALL HAVE ALL JOINTS AND SEAMS SEALED LIQUID TIGHT WITH A RCD #8, UL-181 MASTIC OR EQUAL. ALL JOINTS AND SEAMS ON THE RIGID INSULATION BOARD SHALL BE SEALED LIQUID TIGHT USING RCD #8, UL-181 MASTIC OR EQUAL. THEN ALL RIGID BOARD SHALL BE PAINTED WITH A LIBERAL AMOUNT OF "KOOL-SEAL"
- ALUMINUM ROOF COATING #20-400 OR EQUAL. 3. PROVID DOUBLE WALL DUCTWORK IN AREAS WHERE DUCT IS EXPOSED TO VIEW. PROVIDE DUCT INSULATION BETWEEN DUCT WALLS WITH MINIMUM R-VALUE OF 6. REFER TO SPECIFICATIONS.
- D. PROVIDE FLEXIBLE CONNECTION AT DUCT ATTACHMENTS TO MECHANICAL EQUIPMENT. E. HVAC EQUIPMENT SUMITTED OTHER THAN SCHEDULED MANUFACTURER'S SHALL NOT EXCEED PHYSICAL
- DIMENSIONS DUE TO SPACE LIMITATIONS. . ALL PIPING AND DUCTWORK PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE PROTECTED WITH FIRE
- BLOCKING MATERIAL AND/OR DAMPERS PER SPECIFICATIONS. G. MANUAL VOLUME DAMPERS INSTALLED IN RECTANGULAR DUCTWORK SHALL BE OPPOSED BLADE TYPE.
- MANUAL VOLUME DAMPERS INSTALLED IN ROUND DUCTWORK SHALL BE BUTTERFLY TYPE. H. BALANCING DAMPERS IN EXTERNALLY INSULATED DUCTWORK SHALL BE PROVIDED WITH A BUILD-OUT ON DAMPER OPERATOR TO EXTEND OPERATOR HANDLE TO OUTSIDE OF INSULATION.
- CONCEALED DUCTWORK TO HAVE OPERABLE QUADANTS ON BALANCING DAPERS. PROVIDE ACCESS TO ALL CONTROL, MOTORIZED, BALANCING AND FIRE DAMPERS. PROVIDE ACCESS
- DOORS IN DUCTS AND CEILINGS WHERE NECESSARY. DUCTWORK SHALL BE GALVANIZED G-90 SHEETMETAL FABRICATED TO SMACNA STANDARDS. DUCTWORK
- SHALL BE SHEET STEEL OF LOCK-FORMING QUALITY, ASTM-525. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL SEAMS AIR TIGHT WITH LOW PRESSURE DUCT SEALANT.
- FLEXIBLE DUCTWORK SHALL BE EQUAL TO FLEXMASTER 8M WITH AN INSULATING R-VALUE OF 6 OR BETTER. FLEX DUCT SHALL NOT EXCEED 6 FT. IN LENGTH. DUCT RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK.
- M. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH 24 HOUR MEMORY BACKUP SIMILAR TO HONEYWELLS T7350M1008/U.

HVAC SYMBOLS AND ABBREVIATIONS

PRIMARY DUCT, ROUND

DUCT TRANSITION

NEW EQUIPMENT

NEW PIPING OR DUCT

EXISTING PIPING OR DUCT

BRANCH TAP

PRIMARY DUCT, RECTANGULAR

MANUAL VOLUME DAMPER (MVD)

NOTE: ALL SYMBOLS & ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT

←--

TSHS

MISCELLANEOUS:

CFM

			A	IR D	EVICE	SCHE	DULE	:		
PLAN MARK	MANUF. & MODEL NUMBER	SERVICE	MODULE SIZE	NECK SIZE	FACE SIZE	BORDER TYPE	FINISH	BLOW PATTERN	MAT'L.	OPTIONS/NOTES
А	TITUS TDC-AA	SUPPLY	24 X 24	SEE PLAN	18 X 18	3	26	4	ALU	
В	TITUS 50 F	RETURN	24 X 24	20 X 20	20 X 20	3	26	-	ALU	½" X ½" X 1" CORE
С	TITUS 50 F	RETURN	24 X 12	20 X 8	20 X 8	3	26	-	ALU	½" X ½" X 1" CORE
D	TITUS 300 FS	SUPPLY	10 X 8	8 X 6	10 X 8	1	26	2	ALU	AG-15-AA
Е	TITUS 300 FS	SUPPLY	14 X 8	12 X 6	14 X 8	1	26	2	ALU	AG-15-AA
F	TITUS 300 FS	SUPPLY	20 X 10	18 X 8	20 X 10	1	26	2	ALU	AG-15-AA
G	TITUS 350 FL	RETURN	12 X 10	10 X 8	12 X 10	1	26	-	ALU	
BOR	DER TYPE	BLOW PATTERN			<u>FINISH</u>			OPTIONS/NOTES		
		1. 1-WAY 2. 2-WAY			01 ALUMINUM 04 MILL (STD)) MOUNT FRAME STER FRAME	<u> </u>

F	TITUS 300 FS	SUPPLY	20 X 10	18 X 8	20 X 10	1	26		2	AG-15-AA	
G	TITUS 350 FL RETURN		12 X 10	10 X 8	12 X 10	1	26		-	ALU	
1. SU 2. SN 3. LA 4. SF 5. DF	DER TYPE JRFACE MOUNT NAP-IN NY-IN PLINE ROPPED EVELED	OSITE		FINISH 01 ALUMINUM 04 MILL (STD) 26 WHITE	PFSS SS PLASTER FRAME PFA ALUM PLASTER F AG-15 STEEL DAMPER AG-15-AA ALUMINUM					- AMPER TEEL DAMPER	
				MATERIAL ST'L 22 GAUGE S ALU ALUMINUM	TEEL		EQ L S AG EG TR	G-85 BUTTERFL	LONG ORIENTATION SHORT ORIENTATION ANES		

MARK	EF-1	EF-2	
SERVES	MEN 126	WOMEN 125	
DRIVE	DIRECT	DIRECT	
CFM	100	100	
E.S.P. IN W.G.	0.3	0.3	
HORSEPOWER [WATTS]	[21]	[21]	
RPM (MAX.)	1100	1100	
SONES	0.8	0.8	
VOLTS/PHASE/HERTZ	115/1/60	115/1/60	
MANUFACTURER	GREENHECK	GREENHECK	
MODEL NUMBER	SP-A125	SP-A125	
WEIGHT	17	17	
NOTES	1, 2, 3	1, 2, 3	

2. EXHAUST FAN SHALL BE CONTROLLED BY LIGHT SWITCH TO TURN ON

WHEN RESTROOM LIGHT IS ON. COORDINATE WITH ELECTRICAL.

3. EQUIVALENT MANUFACTURES ARE COOK AND GREENHECK.

	RE\	/ISIO	NS		
DATE					
DESCRIPTION					
MARK					

615 N. Upper Broadway

Suite 1250

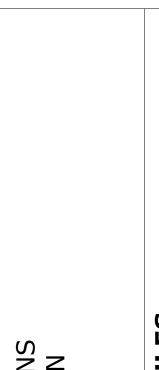
78401-0750

Corpus Christi, TX

MARK	(E)RTU-3	(E)RTU-5	(E)RTU-7	(E)RTU-10	
TYPE	CV	CV	CV	CV	
TONS	10	10	10	10	
CFM	3200	3200	3000	4060	
OA CFM	380	335	505	420	
EXT SP	0.75	0.75	0.75	0.75	
DX COOLING SECTION					
EAT DB/WB	81.5/65.0	81.3/64.6	79.5/65.3	79.1/63.2	
LAT DB/WB	55.0/53.7	54.8/52.4	55.0/52.9	55.0/54.1	
TOT MBTUH	109	116.4	112.8	109.5	
SEN MBTUH	87.1	96.9	83.6	83.5	
ELEC. HEATING SECTION					
EAT/LAT	64.1/74.7	64.8/70.5	63.4/70.3	65.1/73.5	
MFG/MODEL NO.	EXISTING	EXISTING	EXISTING	EXISTING	
NOTES:	ALL	ALL	ALL	ALL	

MARK	(E)RTU-3	(E)RTU-5	(E)RTU-7	(E)RTU-10				
TYPE	CV	CV	CV	CV				
TONS	10	10	10	10				
CFM	3200	3200	3000	4060				
OA CFM	380	335	505	420				
EXT SP	0.75	0.75	0.75	0.75				
DX COOLING SECTION								
EAT DB/WB	81.5/65.0	81.3/64.6	79.5/65.3	79.1/63.2				
LAT DB/WB	55.0/53.7	54.8/52.4	55.0/52.9	55.0/54.1				
TOT MBTUH	109	116.4	112.8	109.5				
SEN MBTUH	87.1	96.9	83.6	83.5				
ELEC. HEATING SECTION	J .							
EAT/LAT	64.1/74.7	64.8/70.5	63.4/70.3	65.1/73.5				
MFG/MODEL NO.	G/MODEL NO. EXISTING EXISTING EXISTING EXISTING							
NOTES:	OTES: ALL ALL ALL ALL							
NOTES:								
1. PROVIDE HOT GAS BY	. PROVIDE HOT GAS BYPASS EQUAL TO RAWAL'S APR CAPACITY CONTROL DEVICE.							
INSTALL HOT GAS BYF	INSTALL HOT GAS BYPASS VALVE AS PER MANUFACTURER'S INSTRUCTIONS.							
2. CONTRACTOR SHALL	. CONTRACTOR SHALL REPLACE FILTERS AT THE FOLLOWING TIMES: ONCE BEFORE CONSTRUCTION, ONCE							
DURING CONSTRUCTION	DURING CONSTRUCTION (MIDWAY), AND ONCE AT THE END OF CONSTRUCTION.							
3. CONTRACTOR SHALL	3. CONTRACTOR SHALL VERIFY ALL HEATING AND COOLING ARE FUNCTIONING PROPERLY. THERMOSTATS							
SHALL BE RELOCATED	SHALL BE RELOCATED AS PER THE PLANS.							
4. CONTRACTOR SHALL	REPLACE ALL BELT	S AND PROVIDE A C	OMPLETE DIAGOSTI	CS CHECK TO THE TE	ENANT			
WITH ANY RECOMMEN	IDED REPAIRS.							
5. CONTRACTOR SHALL I	PROVIDE A DDC CO	NTROLLER WITH BA	ACNET MSTP AND INT	TERFACE WITH TENAI	NTS			
EXISTING DDC SYSTEM	5. CONTRACTOR SHALL PROVIDE A DDC CONTROLLER WITH BACNET MSTP AND INTERFACE WITH TENANTS EXISTING DDC SYSTEM.							

AIK B	ALANCE SCHEDULE				BASED ON ASHRAE	62.1-2010	
MARK	SERVES	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	RESULTING	PERCENT
		CFM	CFM	CFM	CFM	BALANCE	OUTSIDE AIR
(E) RTU-3	CUBICLES	3200	2820	380		380	11.9%
(E) RTU-5	OFFICES, CUBICLES	3200	2865	335		335	10.5%
E) RTU-7	TRAINING ROOM	3200	2695	505		505	15.8%
(E) RTU-10	RECEPTION, RESOURCE CENT., RR	4060	3640	420		420	10.3%
F-1	MEN 126				100	-100	
F-2	WOMEN 125				100	-100	
DA .	OUTSIDE AIR TOTAL					1640	
ĒΑ	EXHAUST AIR TOTAL					-200	
	DIFFERENCE (OA-EA)					1440	
	CONDITIONED AREA (SQUARE FEET)				9047		
٨	DESIRED CFM FOR PRESSURIZATION (CFM/SF)				0.033	298.551	CFM
3	BUILDING LEAKAGE BASED ON EXISTING BLDG AT 0.1	CFM/SF X TOTAL SUR	RFACE AREA			1125.4	CFM
	BUILDING EXHAUST				=	200	CFM
	MINIMUM REQUIRED FOR PRESSURIZATION (A+B+C)					1624	CFM
	AMOUNT OF FRESH AIR PROVIDED (DELIVERED)				_	1640	
	AMOUNT TO BE RELIEVED (DELIVERED - MINIMUM)				-	16	CFM
	BUILDING PRESSURIZED AT:	0.025 in. W.G.	AT	1624 CFM			



WORKFORCE SOLUTIONS PHASE II RENOVATION 4981 AYERS STREET CORPUS CHRISTI, TX 78415

*

ENGINEERING

5656 S. STAPLES, SUITE 360, CORPUS CHRISTI, TX 78411 P - 361.852.2727 F - 361.852.2922 TEXAS ENGINEERING FIRM NO. 005318 22059

JOB NO. 202217 PHASE: ISSUE DATE 07/21/2022 DRN. BY: CKK CKD. BY:

SHEET NUMBER

<u>LEGEND</u>

GAUGE

GALVANIZED

DUCTWORK:

20"□

20/12

LINE TYPES:

SQUARE ROUND ACC.DR. ACCESS DOOR ABOVE FINISHED FLOOR CFM CUBIC FEET PER MINUTE DRY BULB EXHAUST AIR ENTERING AIR TEMPERATURE EXTERNAL STATIC PRESSURE FC FLA FLEXIBLE CONNECTION FULL LOAD AMPS FINS PER INCH FT W.G. FOOT WATER GAUGE

GALLONS PER MINUTE

HVAC HEATING VENTILATING & AIR CONDITIONING IN W.G. INCH WATER GAUGE KILOWATT LEAVING AIR TEMPERATURE THOUSAND BTU PER HOUR MAXIMUM OVER CURRENT PROTECTION MOCP OUTSIDE AIR PRESSURE DROP **RETURN AIR** R/A RUNNING LOAD AMPS REVOLUTION PER MINUTE S/A SUPPLY AIR STATIC PRESSURE SQUARE FEET UNDERCUT DOOR BY 1" U.C.D. WET BULB

RETURN AIR

FIRE/SMOKE DAMPER

RETURN/EXHAUST AIR GRILLE

ZONE TEMP/HUMIDITY SENSOR

ZONE THERMOSTAT/HUMIDISTAT

AIR DEVICE TYPE, NECK

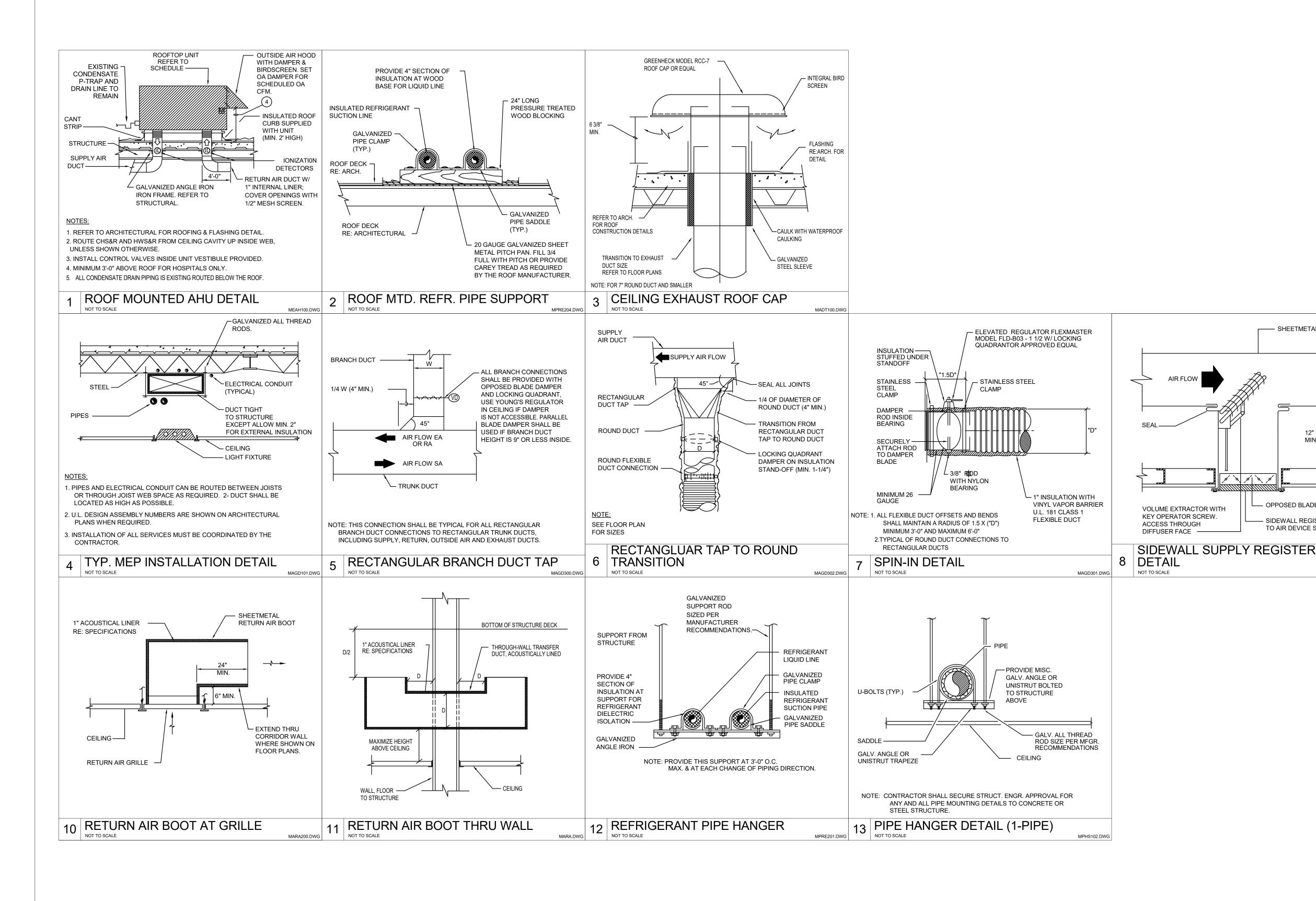
SIZE, SCHEDULED CFM

NEW CONNECTION TO

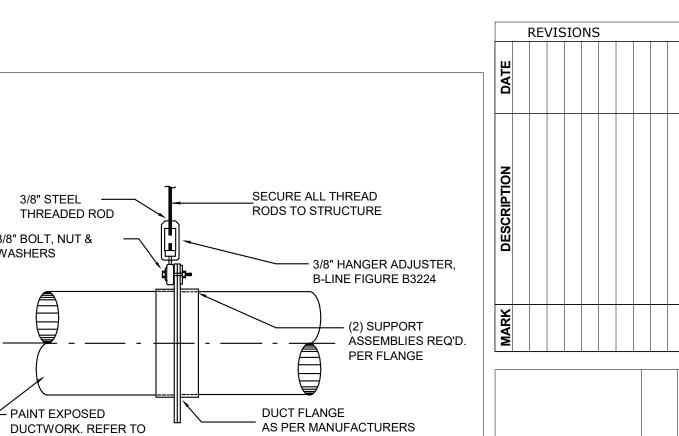
LANDLORD'S BASE SYSTEM

CEILING DIFFUSER

SEAN M. RODRIGUEZ







RECOMMENDATION

9 OVAL OR ROUND DUCT HANGER

—— SHEETMETAL DUCT

OPPOSED BLADE DAMPER

- SIDEWALL REGISTER, REFER

TO AIR DEVICE SCHEDULE

MAAD101.DWG

مریکا کھر کھا کھ

THREADED ROD

3/8" BOLT, NUT &

∠ PAINT EXPOSED

ARCHITECT FOR

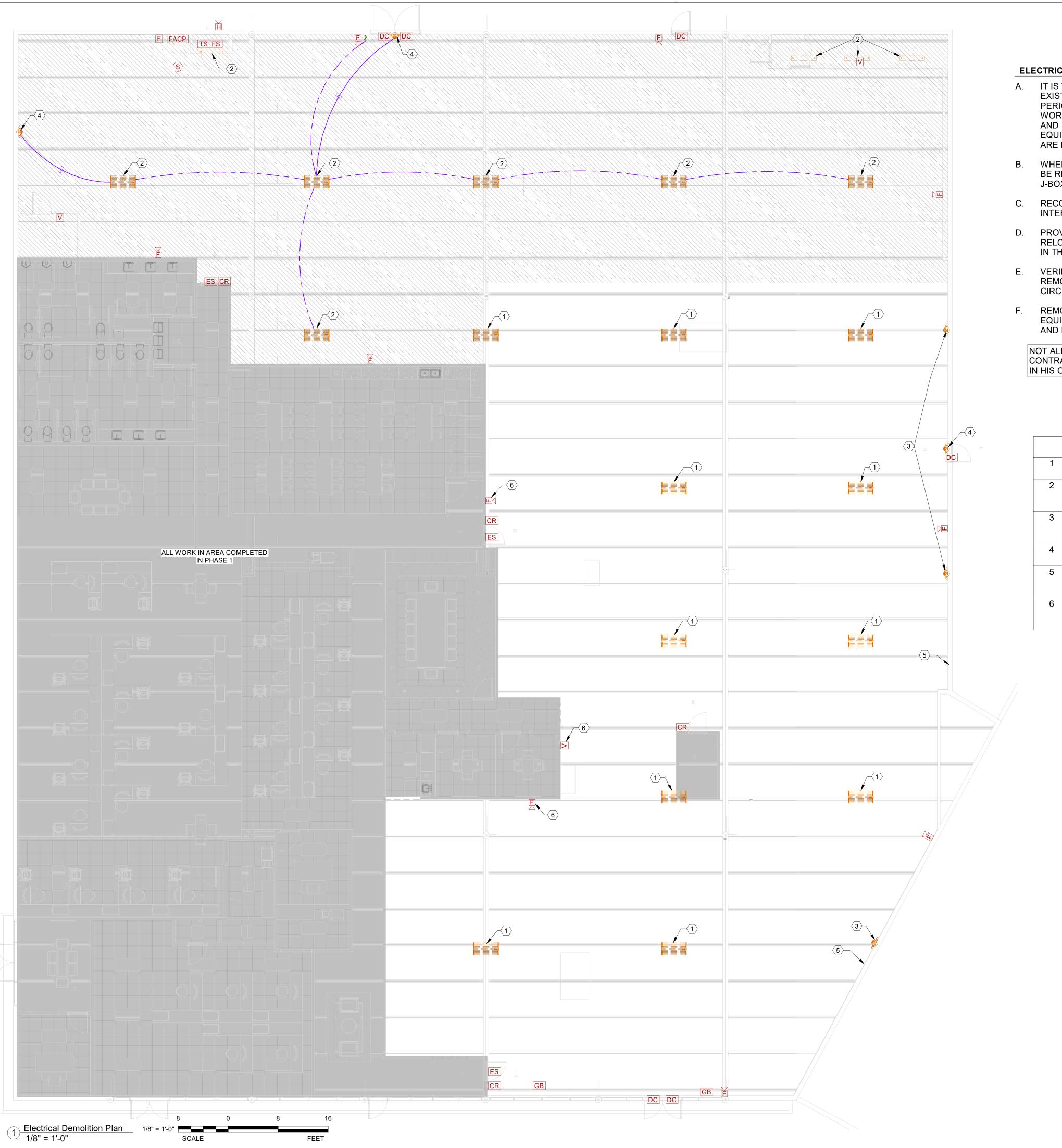
WASHERS

WORKFORCE SOLUTIONS PHASE II RENOVATION 4981 AYERS STREET CORPUS CHRISTI, TX 78415



22059

JOB NO. 202217 PHASE: ISSUE DATE 07/21/2022 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.

ALL SPECIAL SYSTEM DEVICES SHALL REMAIN UNLESS NOTED OTHERWISE.

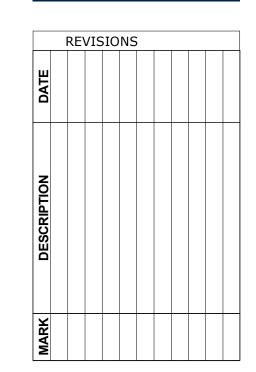
Electrical Keynotes

- 1 REMOVE EXISTING LIGHT FIXTURE. REFER TO SHEET E100 FOR NEW LIGHTING LAYOUT.
- 2 EXISTING LIGHT FIXTURE ARE TO REMAIN IN PLACE. MAINTAIN EXISTING CIRCUIT, REWORK AS REQUIRED.
- 3 REMOVE EXISTING EXIT/EMERGENCY LIGHT FIXTURES.REFER TO SHEET E100 FOR ADDITIONAL INFORMATION.
- 4 EXISTING EXIT/EMERGENCY FIXTURE TO REMAIN IN PLACE.
- REMOVE ANY EXISTING RECEPTACLES ON WALL. REFER TO SHEET E200 FOR ADDITIONAL INFORMATION.
- EXISTING FIRE ALARM DEVICE TO BE RELOCATED. REFER TO SPECIAL SYSTEMS SHEET E300 FOR NEW LAYOUT.

07/21/22

22059





4981 AYERS STREET
RPUS CHRISTI, TX 78415

CAL DEMOLITION PLAN

CORPUS CHR.

ELECTRICAL DE SIVE NOTICE AND VERTIFY THE TEXAS BOARD OF ARCHITECTU

B NO. 202217
ASE: PH2
SUE DATE: 07/21/2022
N. BY: CEG

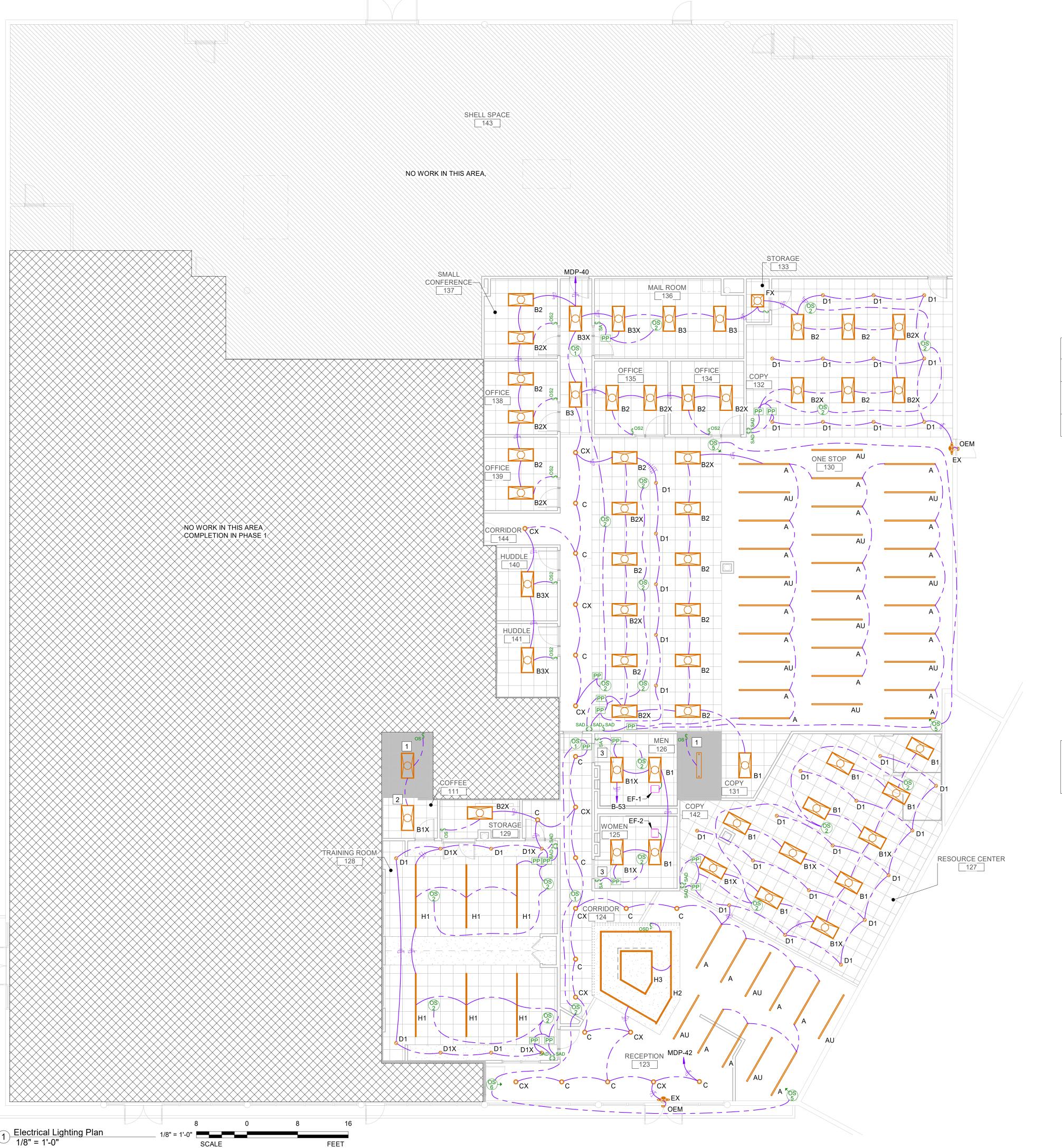
SHEET NUMBER

JOB NO.
PHASE:

ISSUE DATE:
DRN. BY:
CKD. BY:

CKD. BY:

SHEET
CORPUS CHRISTI, TX 78411
P - 361.852.2727 F - 361.852.2922
TEXAS ENGINEERING FIRM NO.
005318



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 PERPENDICULAR TO BUILDING LINES.
- 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 01/E600 PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL FIXTURES PRIOR TO ROUGH-IN.

Electrical Keynotes

- 1 EXISTING LIGHT FIXTURE AND WALL SENSOR SWITCH TO REMAIN.
- 2 NEW LIGHT FIXTURE SHALL BE CIRCUITED TO NEARBY EXISTING CIRCUIT AND BE CONTROLLED BY INTEGRATED OCCUPANCY SENSOR. REWORK AS REQUIRED.
- 3 RESTROOM LIGHT FIXTURES AND EXHAUST FAN SHALL BE CONTROLLED VIA RESTROOM MANUAL ON SWITCH.

OCCUPANCY SENSOR SCHEDULE

	(SOME MAY NOT BE USED)
PP	SENSORSWITCH POWER PACK #PP20
\$os	SENSORSWITCH #WSX-SA-CBA
\$os2	SENSORSWITCH #WSX-PDT-SA-CBA
\$osf	SENSORSWITCH #WSX-2P-FAN-CBA
\$ D	0-10V DIMMER SWITCH
\$sa	SENSORSWITCH #sPODM-SA-CBA
\$sa2	SENSORSWITCH #sPODM-2P2SA-CBA
l .	

\$SAD SENSORSWITCH #sPODM-SA-D-CBA
\$SAD2 SENSORSWITCH #sPODM-2P2SA-D-CBA

OS SENSORSWITCH #CM9

SENSORSWITCH #CM9-PDT

SENSORSWITCH #CM10

SENSORSWITCH #CM10-PDT

SENSORSWITCH #WV-PDT-16-WVBR

SENSORSWITCH #HWR13-WH

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.

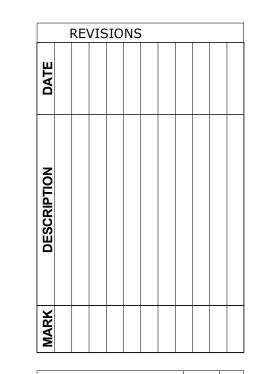
ALL SENSORS SHALL BE LINE VOLTAGE, WITH PROVIDED HOT, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED. PROVIDE COPIES OF SENSOR OPERATION INSTRUCTIONS TO OWNER.

SET TIME DELAY TO 15-20 MINUTES FOR ALL OCCUPANCY SENSORS. SINGLE RELAY WALL SWITCH AND CEILING 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.



architects & associates

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Corpus Christi, TX
78401-0750



SE II RENOVATION 4981 AYERS STREET PUS CHRISTI, TX 78415

JOB NO. 202217
PHASE: PH2

ISSUE DATE:

DRN. BY:

CKD. BY:

SHEET NUMBER

07/21/2022 CEG

22059



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.
- 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 PERPENDICULAR TO BUILDING LINES.
- 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 01/E600 PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL FIXTURES PRIOR TO ROUGH-IN.

Electrical Keynotes

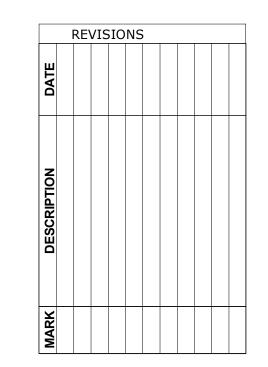
- PROVIDE TV BOX, RECEPTACLE, AND DATA FOR TV AT INDICATED LOCATION. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 2 TYPICAL. COORDINATE EXACT ELECTRICAL POWER REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO INSTALLATION. ONE CIRCUIT SHALL BE AN ISOLATED/DEDICATED CIRCUIT. REFER TO DETAIL #6 ON SHEET E600 FOR ADDITIONAL INFORMATION.
- 3 RUN POWER AND DATA FROM FLOOR THROUGH CHASE. CUT/PATCH CONCRETE AS REQUIRED.
- 4 REFER TO ONE-LINE DIAGRAM ON SHEET E410 FOR NEW SERVICE AND NEW FEEDS.
- 5 PROVIDE DEDICATED CIRCUIT AND DATA FOR COPY MACHINE, RUN CIRCUIT B2-1 THROUGH POWER POLE INDICATED.

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

COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN

ALL TV OUTLETS SHALL BE 3/4" CONDUIT

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



202217 PHASE: ISSUE DATE: 07/21/2022 DRN. BY: CEG

SHEET NUMBER

CKD. BY:

07/21/22 ENGINEERING

5656 S. STAPLES, SUITE 360,
CORPUS CHRISTI, TX 78411
P - 361.852.2727 F - 361.852.2922
TEXAS ENGINEERING FIRM NO.
005318

22059



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.
- 3. 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 PERPENDICULAR TO BUILDING LINES.
- 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 01/E600 PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL FIXTURES PRIOR TO ROUGH-IN.

Electrical Keynotes

- 1 EXISTING DEVICE TO REMAIN.
- 2 COORDINATE POWER/DATA REQUIREMENTS AND LOCATION/ELEVATION WITH OWNERS AND SECURITY COMPANY PRIOR TO INSTALLATION.
- 3 TYPICAL. ALL DEVICES IN SHELL SPACE TO REMAIN.
- 4 PROVIDE J-BOX FOR FUTURE ELECTRONIC DOOR CONTROLS.
- 5 TYPICAL. CEILING SPEAKERS TO BE PROVIDED AND INSTALLED BY OWNER.

EXISTING RTU DUCT SMOKE DETECTORS TO REMAIN, INTERCONNECT NEW DEVICES WITH EXISTING FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR RTU DUCT SMOKE DETECTORS LOCATIONS.

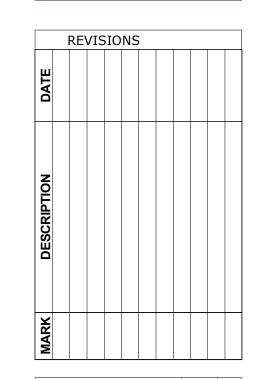
CABLE TRAYS SHALL BE 12" X 4". FIELD COORDINATE OPENING THROUGH NON-RATED WALL

ALTERNATE: PROVIDE J HOOKS IN LIEU OF CABLE TRAYS. PROVIDE 2" J HOOKS EVERY 4' WITH ALL THREAD MOUNTED 12" ABOVE CEILING



22059





ATION
:T
'8415

4981 AYERS STREET CORPUS CHRISTI, TX 784

JOB NO. 202217
PHASE: PH2

ISSUE DATE: 07/21/2022
DRN. BY: CEG

SHEET NUMBER

E300

CKD. BY:

		LIGHT FIXT	TURE SCH	EDULE			
TYPE	MANUFACTURER & CATALOG NO.	VOLTAGE	WATTS	LUMENS	TEMP	MOUNTED	DESCRIPTION
Α	FINELITE #HP-2-P-D-8'-H-840-F-96-277-SC-FC-10%-DTO-FA100-C4-FE-SW-ABL-8H-CBA	277	57	5000	4000K	SUSPENDED	2" ACOUSTIC LIT BAFFLE LIT @ 10' AFF TO BOTTOM OF FIXTURE
AU	FINELITE #HP-2-P-8'-ABU-FA100-8H-CBA	-	-	-	-	SUSPENDED	2" ACOUSTIC LIT BAFFLE UNLIT @ 10' AFF TO BOTTOM OF FIXTURE
B1	LITHONIA #2BLT4-40L-ADSM-GZ10-LP840	MVOLT	31	4000	4000K	RECESSED	2'X4' LED TROFFER 4000 LUMENS
B1X	LITHONIA #2BLT4-40L-ADSM-GZ10-LP840-EL7L	MVOLT	31	4000	4000K	RECESSED	2'X4' LED TROFFER 4000 LUMENS W/BATTERY PACK
B2	LITHONIA #2BLT4-48L-ADSM-GZ10-LP840	MVOLT	38	4800	4000K	RECESSED	2'X4' LED TROFFER 5000 LUMENS
B2X	LITHONIA #2BLT4-48L-ADSM-GZ10-LP840-EL7L	MVOLT	38	4800	4000K	RECESSED	2'X4' LED TROFFER 5000 LUMENS W/ BATTERY PACK
В3	LITHONIA #2BLT4-60L-ADSM-GZ10-LP840	MVOLT	46	6000	4000K	RECESSED	2'X4' LED TROFFER 6000 LUMENS
B3X	LITHONIA #2BLT4-60L-ADSM-GZ10-LP840-EL7L	MVOLT	46	6000	4000K	RECESSED	2'X4' LED TROFFER 6000 LUMENS W/ BATTERY PACK
С	LITHONIA #LDN6CYL-40/25-LO6-BR-LSS-MVOLT-GZ10-ACC	MVOLT	28	2500	4000K	SUSPENDED	6" SUSPENDED CYLINDER DOWNLIGHT @ 10' AFF TO BOTTOM OF FIXTURE
CX	LITHONIA #LDN6CYL-40/25-LO6-BR-LSS-MVOLT-GZ10-ACC	MVOLT	28	2500	4000K	SUSPENDED	6" SUSPENDED CYLINDER DOWNLIGHT W/ BATTERY PACK @ 10' AFF TO BOTTOM OF FIXTURE
	MICRO INVERTER #IIS 35 I	MVOLT	35	-	-	STRAP	BATTERY PACK FOR FIXTURE CX
D1	LITHONIA #LDN6-40/15-CBA-LO6AR-LSS-MVOLT-GZ10	MVOLT	18	1500	4000K	RECESSED	6" RECESSED CAN DOWNLIGHT
D1X	LITHONIA #LDN6-40/15-CBA-LO6AR-LSS-MVOLT-GZ10-EL	MVOLT	18	1500	4000K	RECESSED	6" RECESSED CAN DOWNLIGHT W/ BATTERY PACK
EX	LITHONIA #LHQM-S-W-3-R-LED	MVOLT	3	-	-	SURFACE	EXIT/EMERGENCY LIGHT
FX	LITHONIA #2BLT2-20L-ADSM-LP840-EL7L	MVOLT	20	2000	4000K	RECESSED	2'X2' LED TROFFER 2000 LUMENS W/ BATTERY PACK
H1	FINELITE #HP-2-R-10'-V-840-F-96LG-277-SC-FC-10%-DTO-C1-FE-SW	277	92	8220	4000K	RECESSED	2" LINEAR LED 10' LENGTH
H2	FINELITE #HP-2-R-46'2"-S-840-F-96LG-277-SC-FC-10%-DTO-SF-FE-SW	277	166	15456	4000K	RECESSED	2" LINEAR LED. REFER TO ARCHITECTURAL PLANS FOR CONFIGURED SHAPE AND VERIFY FIELD MEASUREMENTS FOR RUN LENGTHS
H3	FINELITE #HP-2-R-20'10"-S-840-F-96LG-277-SC-FC-10%-DTO-SF-FE-SW	277	76	7056	4000K	RECESSED	2" LINEAR LED. REFER TO ARCHITECTURAL PLANS FOR CONFIGURED SHAPE AND VERIFY FIELD MEASUREMENTS FOR RUN LENGTHS
OEM	LITHONIA #AFF-OEL-CBA-UVOLT-LTP-SDRT-FCT	UVOLT	3	-	-	SURFACE	EXTERIOR EMERGENCY LIGHT

NOTE #1 : CBA = COLOR BY ARCHITECT

CKT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	A	вС	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT#
1		-	#10 AWG		Α		35/1	#8 AWG	3500	TWH	2
3	SPD	-	#10 AWG	30/3		В	20/1	#12 AWG	900	CONFRANCE 137	4
5		-	#10 AWG		П	С	20/1	#12 AWG	900	OFFICE 138	6
7	COPY MACH 136	1400	#12 AWG	20/1	Α		20/1	#12 AWG	900	OFFICE 139	8
9	COPY MACH 132	1400	#12 AWG	20/1		В	20/1	#12 AWG	720	MAIL RM 136	10
11	POWER POLE A	1080	#12 AWG	20/1		С	20/1	#12 AWG	540	MAIL RM 136	12
13	п	720	#12 AWG	20/1	Α		20/1	#12 AWG	900	OFFICE 135	14
15	POWER POLE B	1080	#12 AWG	20/1		В	20/1	#12 AWG	900	OFFICE 134	16
17	"	1080	#12 AWG	20/1		С	20/1	#12 AWG	720	COPY 132	18
19	POWER POLE C	1080	#12 AWG	20/1	Α		20/1	#12 AWG	900	ONE-STOP 130	20
21	"	1080	#12 AWG	20/1	П	В	20/1	#12 AWG	720	HUDDLE 140	22
23	POWER POLE D	1080	#12 AWG	20/1		С	20/1	#12 AWG	720	HUDDLE 141	24
25	"	1080	#12 AWG	20/1	Α		20/1	#12 AWG	900	ONE-STOP 130	26
27	POWER POLE E	1080	#12 AWG	20/1	П	В	20/1	#12 AWG	1400	COPY MACH 131	28
29	"	720	#12 AWG	20/1	П	С	20/1	#12 AWG	180	MEN 126	30
31	POWER POLE F	900	#12 AWG	20/1	Α		20/1	#12 AWG	180	WOMEN 125	32
33	"	900	#12 AWG	20/1	П	В	20/1	#12 AWG	720	RESOURCE C. 127	34
35	"	900	#12 AWG	20/1	П	С	20/1	#12 AWG	540	RESOURCE C. 127	36
37	POWER POLE G	900	#12 AWG	20/1	Α		20/1	#12 AWG	900	RESOURCE C. 127	38
39	"	900	#12 AWG	20/1		В	20/1	#12 AWG	720	RECEPTION DESK	40
41	"	900	#12 AWG	20/1	П	С	20/1	#12 AWG	900	RECEPTION DESK	42
43	COPY MACH 127	1400	#12 AWG	20/1	Α		20/1	#12 AWG	720	CORRIDOR 124	44
45	COPY MACH 127	1400	#12 AWG	20/1		В	20/1	#12 AWG	720	TRAINING RM 128 TV	46
47	COPY MACH 123	1400	#12 AWG	20/1		С	20/1	#12 AWG	720	TRAINING RM 128 FLOOR	48
49	TRAINING RM 128	720	#12 AWG	20/1	Α			PER ONE-LINE	1400	PNL 'B2'	50
51	TRAINING RM 128	540	#12 AWG	20/1		В	100/3	PER ONE-LINE	900	"	52
53	RESTROOM LTG	180	#12 AWG	20/1		С		PER ONE-LINE	360	"	54

								100 / tivii , tvi.L.O, 120//	200 V, O.,	4W, S/N, SURFACE, NEMA	11, 2210110
CKT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	Α	ВС	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT#
1	COPY MACHINE 130	1400	#12 AWG	20/1	Α		20/1			SPARE	2
3	STORAGE 129	900	#12 AWG	20/1		В	20/1			SPARE	4
5	STORAGE 133	360	#12 AWG	20/1		С	20/1			SPARE	6
7	SPARE			20/1	Α		20/1			SPARE	8
9	SPARE			20/1		В	20/1			SPARE	10
11	SPARE			20/1		С	20/1			SPARE	12
13	SPARE			20/1	Α		20/1			SPARE	14
15	SPACE					В				SPACE	16
17	SPACE					С				SPACE	18
19	SPACE				Α					SPACE	20
21	SPACE					В				SPACE	22
23	SPACE					С				SPACE	24

AINL	EL'A'	EXISTIN	G					125 AMP, M.C.B, 120)/208 V, 3	□, 4W, S/N, SURFACE, NEMA 1	, 10 KA
CKT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	AE	ВС	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CK
1	TWH	3500	#8 AWG	35/1	Α		20/1	-	-	SPARE	2
3	TWH	3500	#8 AWG	35/1	E	3	20/1	#12 AWG	900	OFFICE 106 RECEPT	4
5	STAFF BREAK TV RECEPT	720	#12 AWG	20/1		С	20/1	#12 AWG	540	CHILDCARE TV RECEPT	6
7	POWER POLE	1440	#12 AWG	20/1	Α		20/1	#12 AWG	1080	CHILDCARE RECEPT	8
9	POWER POLE	1440	#12 AWG	20/1	E	3	20/1	#12 AWG	360	COPY 107 RECEPT	10
11	COPY 105 RECEPT	360	#12 AWG	20/1		С	20/1	#12 AWG	900	COFFEE 111 RECEPT	1:
13	BUISNESS SOL. RECEPT	720	#12 AWG	20/1	Α		20/1	#12 AWG	720	LARGE CONF. RECEPT	1.
15	HUDDLE ROOM	1080	#12 AWG	20/1	E	3	20/1	#12 AWG	1200	FUTURE MICROWAVE	1
17	COPY 109 RECEPT	360	#12 AWG	20/1		С	20/1	#12 AWG	1200	MICROWAVE	1
19	ROOF RECEPT	180	#12 AWG	20/1	Α		20/1	#12 AWG	1200	MICROWAVE	2
21	STAFF BREAK RECEPT	720	#12 AWG	20/1	E	3	20/1	#12 AWG	1000	FUTURE REFRIDGE	2:
23	COUNTER RECEPT	360	#12 AWG	20/1		С	20/1	#12 AWG	1000	FUTURE REFRIDGE	24
25	DATA/ELEC RECEPT	720	#12 AWG	20/1	Α		30/2	#10 AWG	1144	CU-1	20
27	DATA/ELEC RECEPT	720	#12 AWG	20/1	E	3		#10 AWG	1144	"	28
29	DATA/ELEC RECEPT	720	#12 AWG	20/1		С	20/2	#12 AWG	130	AHU-1	3
31	REFRIDGE	1000	#12 AWG	20/1	Α			#12 AWG	130	"	32
33	REFRIDGE	1000	#12 AWG	20/1	E	3	20/1	#12 AWG	500	FACP	34
35	MOTOR DAMPERS	1200	#12 AWG	20/1		С	20/1	#12 AWG	1080	LARGE CONF. RECEPT	3
37	VAV'S	1600	#12 AWG	20/1	Α		20/1	#12 AWG	1440	POWER POLE	38
39	POWER POLE	720	#12 AWG	20/1	E	3	20/1	#12 AWG	1440	POWER POLE	40
41	POWER POLE	720	#12 AWG	20/1		С				SPACE	4:

AINL	L'SDP'	NEW						800 AMP, M.L.O, 277/4	180 V, 3□	, 4W, S/N, SURFACE, NEMA	1, 35 KAI
CKT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	AE	3 C	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT#
	MDP	118966	PER ONE-LINE		Α			PER ONE-LINE	18500	PANEL 'B'	
1	II .	120737	PER ONE-LINE	400/3	E	3	110/3	PER ONE-LINE	16080	"	2
	II .	117561	PER ONE-LINE			С		PER ONE-LINE	12920	"	
	XFMR - PNL 'MP'	21334	PER ONE-LINE		Α					SPACE	
3	II	24050	PER ONE-LINE	225/3	E	3				u u	4
	II	27124	PER ONE-LINE			С				п	
	SPACE				Α					SPACE	
5	II .				E	3				II .	6
	II .					С				п	
	SPACE				Α			PER ONE-LINE	-	SPD	
7	"				E	3	60/3	PER ONE-LINE	-	п	8
	"					С		PER ONE-LINE	-	п	

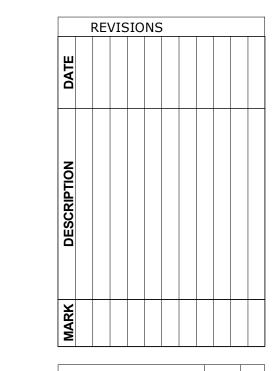
CKT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	АВО	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT#
1	SPACE				Α	20/1	#12 AWG	3294	LIGHTS PHASE 1	2
3	SPACE				В	20/1	#12 AWG	3204	SHELL LIGHTS	4
5	SPACE					;	#8 AWG	9418	RTU-1	6
7	RTU-2	12800	#4 AWG		Α	40/3	#8 AWG	9418	II	8
9	II .	12800	#4 AWG	60/3	В		#8 AWG	9418	II	10
11	II	12800	#4 AWG			;	#4 AWG	12800	RTU-5	12
13	RTU-4	9418	#8 AWG		Α	60/3	#4 AWG	12800	ii .	14
15	ıı	9418	#8 AWG	40/3	В		#4 AWG	12800	II	16
17	ıı	9418	#8 AWG			;	#8 AWG	9418	RTU-9	18
19	RTU-6	9418	#8 AWG		Α	40/3	#8 AWG	9418	ii .	20
21	ıı	9418	#8 AWG	40/3	В		#8 AWG	9418	ii .	22
23	ıı	9418	#8 AWG			;	#6 AWG	12800	RTU-7	24
25	RTU-8	12800	#4 AWG		Α	50/3	#6 AWG	12800	II .	26
27	"	12800	#4 AWG	60/3	В		#6 AWG	12800	II .	28
29	ıı	12800	#4 AWG			;	#4 AWG	12800	RTU-10	30
31	RTU-3	12800	#4 AWG		Α	60/3	#4 AWG	12800	ii .	32
33	II .	12800	#4 AWG	60/3	В		#4 AWG	12800	11	34
35	II .	12800	#4 AWG			20/1	#12 AWG	500	RR-LIGHTS	36
37	SPACE				Α	20/1	#12 AWG	1200	FRONT SIGN	38
39	SPACE				В	20/1*	#12 AWG	3061	LIGHTS PHASE 2	40
41	SPACE					20/1*	#12 AWG	2589	LIGHTS PHASE 2	42

NOTE * = NEW CIRCUIT AND BREAK	ŒR

1, 10 KAIC	V, 3□, 4W, S/N, SURFACE, NEMA	1.C.B, 120/208	400 AMP, N				lG	EXISTIN	'MP'	AINE
CKT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	АВС	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT#
2	ENTRANCE RECEPT	720	#12 AWG	20/1	Α	20/1	#12 AWG	720	FRONTWALL RECEPT	1
4	RECEPT FRONT RR.	720	#12 AWG	20/1	В	20/1	#12 AWG	720	COLUMN RECEPT	3
6	BACKWALL RECEPT	720	#12 AWG	20/1	С	20/1	#12 AWG	720	COLUMN RECEPT	5
8	RECEPT STORAGE ROOM	720	#12 AWG	20/1	Α	20/1	#12 AWG	720	COLUMN RECEPT	7
10	EDF	1080	#12 AWG	20/1	В	20/1	#12 AWG	360	PHONE BOARD	9
12	ELEC. RM. RECEPT	1080	#12 AWG	20/1	С	20/1	#12 AWG	1080	RECEPT	11
14	RECEPT	720	#12 AWG	20/1	Α	20/1	#12 AWG	1080	RECEPT	13
16	RECEPT	720	#12 AWG	20/1	В	20/1	#12 AWG	1080	RECEPT	15
18	UH-1 RISER RM.	750	#12 AWG	20/2	С	20/1	#12 AWG	1080	RECEPT	17
20	TI .	750	#12 AWG		Α	20/1			SPARE	19
22	W/H	1500	#12 AWG	20/1	В	20/1	#12 AWG	500	FIRE SPRINKLE	21
24	PANEL "A"	14874	PER ONE-LINE		С	20/1	#12 AWG	180	ROOF GFCI	23
26	11	15724	PER ONE-LINE	150/3	Α	20/1	#12 AWG	180	ROOF GFCI	25
28	11	9290	PER ONE-LINE		В	60/2	PER ONE-LINE	8080	PANEL "MP2"	27
30	SPACE				С		PER ONE-LINE	6640	п	29







WORKFORCE SOLUTIONS
PHASE II RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

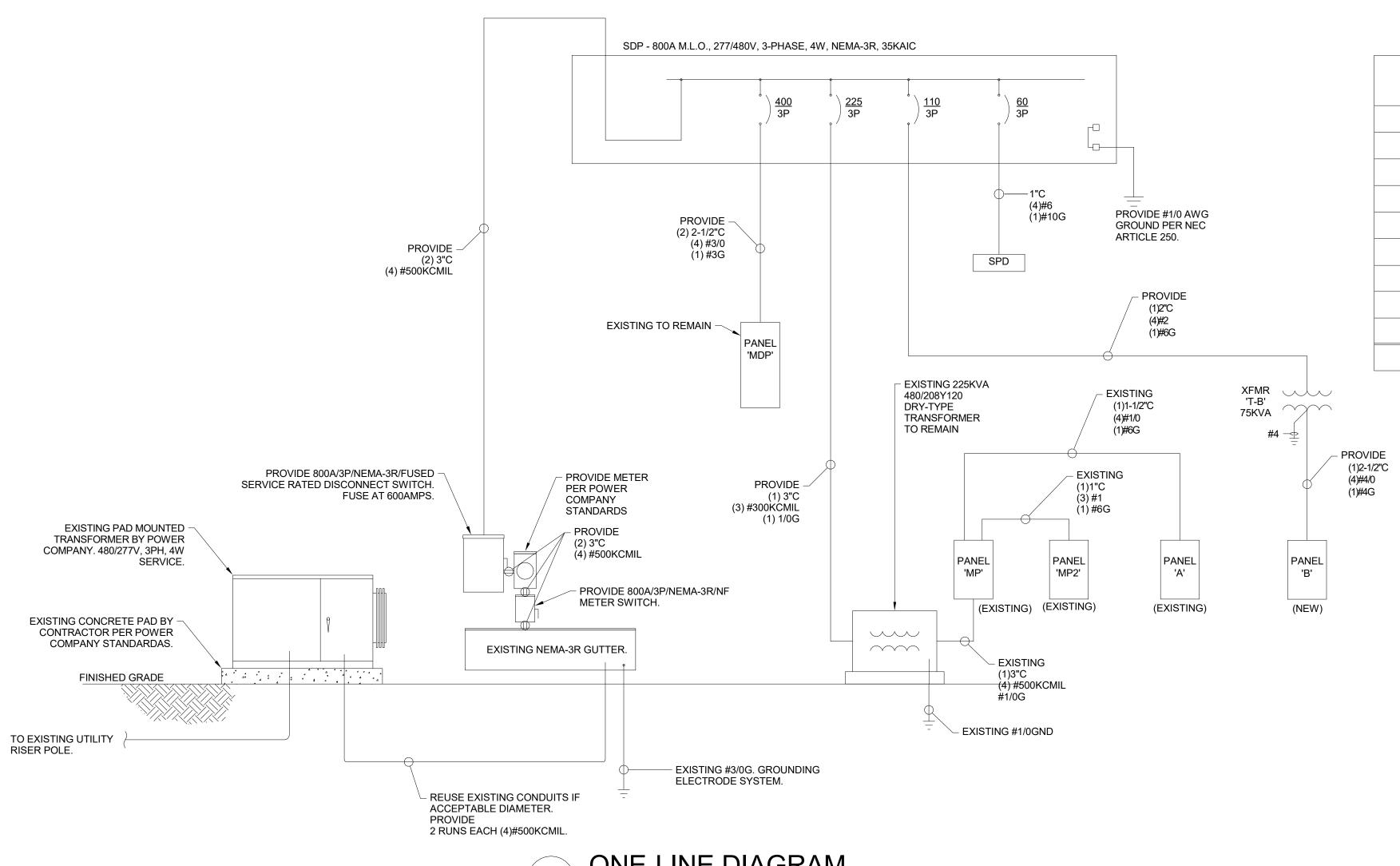
 JOB NO.
 202217

 PHASE:
 PH2

 ISSUE DATE:
 07/21/2022

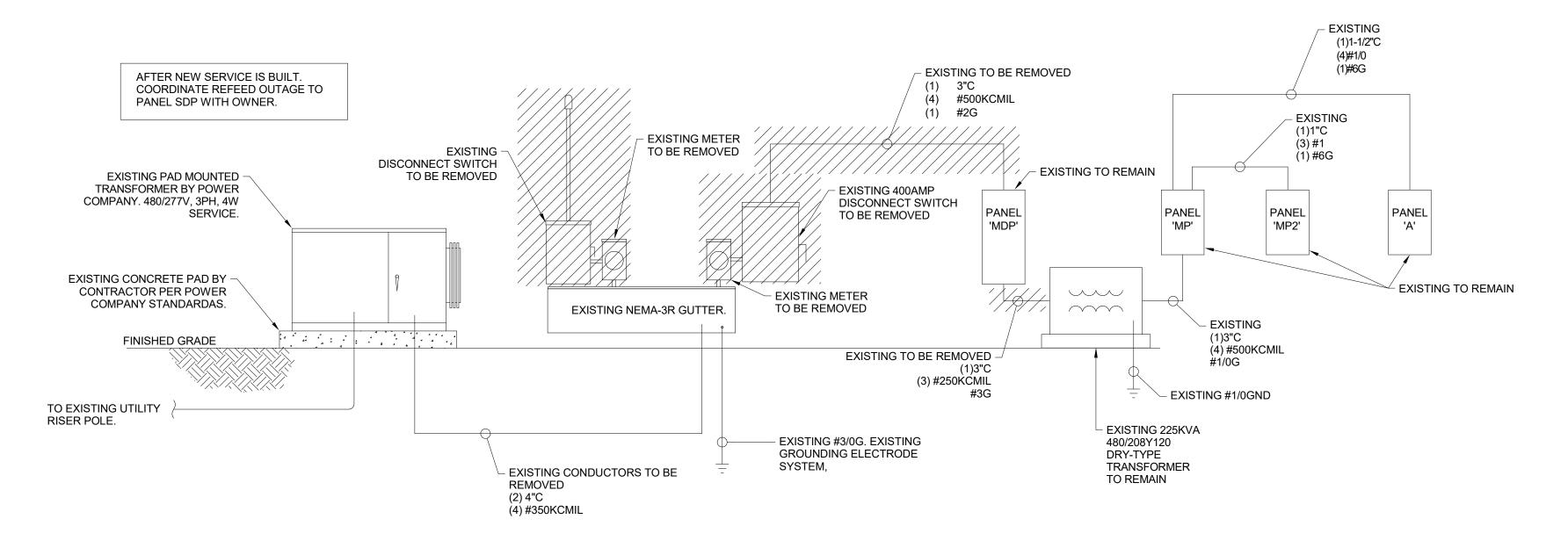
 DRN. BY:
 CEG

 CKD. BY:
 JAR

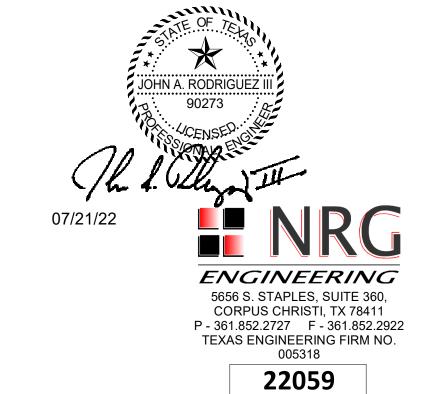


ESTIMATED ELECTRICAL I	LOAD		277/480V, 3□, 4V
DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
LIGHTING	14028	125%	17535
RECEPTACLES	95680	NEC 220-44	52840
KITCHEN EQUIPMENT	7600	NEC 220-56	4940
H.V.A.C.	343416	100%	343416
LARGEST MOTOR	0	125%	0
MOTOR LOAD	0	100%	0
MISC. SINGLE PHASE LOADS	16548	100%	16548
TOTAL VOLT-AMPERS	477272		435279
435279 VA / (480*1.732)	=	523.6	AMPS

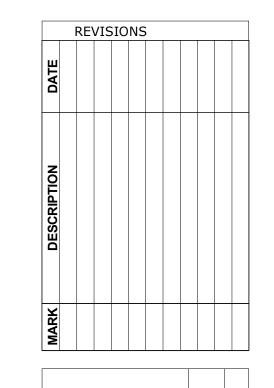
2 ONE-LINE DIAGRAM
SCALE:NTS













WORKFORCE SOLUTIONS
PHASE II RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

 JOB NO.
 202217

 PHASE:
 PH2

 ISSUE DATE:
 07/21/2022

 DRN. BY:
 CEG

SHEET NUMBER
E410

CKD. BY:

ELECTRICAL SYSTEM SECTION 16000 ELECTRICAL LEGEND NOTE: NOT ALL SYMBOLS MAY APPLY TO THIS JOB! THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND DISMANTLING OF TEMPORARY POWER USED FOR CONSTRUCTION AND ALL COSTS INCURRED AS A RESULT OF THIS WORK. COORDINATE ALL TEMPORARY ELECTRICAL SERVICE WORK WITH LOCAL UTILITY COMPANY PRIOR TO COMMENCING WORK SYMBOL DESCRIPTION WORK UNDER THIS CONTRACT INCLUDES MODIFICATIONS TO ANY EXISTING ELECTRICAL SYSTEM AND ALSO HOMERUN TO CIRCUIT AND PANEL INDICATED PROVIDING NEW MATERIALS, DEVICES, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING **NEUTRAL CONDUCTOR** ELECTRICAL SYSTEM. THE WORK ALSO INCLUDES FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT ITEMS PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL HOT CONDUCTOR CODES, ALL LOCAL APPLICABLE ORDINANCES AND LAWS, AS WELL AS, SUBJECT TO INSPECTION. THE INTENT OF THESE DRAWINGS ARE TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE GROUNDING CONDUCTOR PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS TRAVELER PROVIDE ALL DEVICE ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PROPER OPERATION OF ALL SYSTEMS AND THEIR ASSOCIATED EQUIPMENT AS INDICATED BY THE DESIGN ON THESE SWITCH LEG TOGGLE SWITCH - 120/277V, 20A COORDINATE WITH THE WORK OF ALL OTHER SECTIONS. VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. REFER TO ARCHITECTURAL PLANS, AS WELL AS, KITCHEN EQUIPMENT PLANS FOR ADDITIONAL INFORMATION REGARDING RELATED EQUIPMENT, CASEWORK, AND ELECTRICAL CONNECTIONS REQUIRED THEREIN. THREEWAY SWITCH - 120/277V, 20A FOURWAY SWITCH - 120/277V, 20A COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA, OSHA, LIFE SAFETY CODES. AND ALL APPLICABLE LAWS IN EFFECT AT THE TIME OF THIS PROPOSAL. IN THE CASE OF CONFLICT, THEN DIMMER SWITCH - REFER TO LTG CONTROL THE STRICTER INTERPRETATION SHALL TAKE PRECEDENCE. ALL MATERIALS USED SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS ESTABLISHED BY THE UNDERWRITER'S LABORATORIES INC. FOR ADDITIONAL INFORMATION VERIFY VOLTAGE DROPS, A.I.C. RATINGS FOR ALL EQUIPMENT CONNECTED, AND VERIFY SIZE OF ALL KEY SWITCH - 120/277V, 20A CIRCUIT BREAKERS, CONDUIT, ETC. PRIOR TO INSTALLATION. ROOF PENETRATIONS SHALL COMPLY WITH SMACNA, NRCA STANDARDS, AS WELL AS, ALL REQUIREMENTS \$M MOTOR RATED SWITCH OF THE OWNER AND ROOF METHODS AND MATERIALS WARRANTY. SUB-CONTRACT ROOFING PENETRATION WORK TO AN ENTITY APPROVED FOR USE BY THE OWNER AND ROOF MANUFACTURER. REFER 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 APPLICABLE U.L. AND NEMA VOLTAGE LIGHTING CONTROLS SYMBOLS STANDARDS. BUSSING SHALL BE COPPER WITH SILVER PLATING. PROVIDE SOLID NEUTRAL BAR. DISCONNECT SWITCHES: SHALL BE HEAVY-DUTY TYPE AS MANUFACTURED BY SQUARE D, EATON OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST DUPLEX RECEPTACLE - 125V,20A,1P APPLICABLE U.L. AND NEMA STANDARDS. DO NOT MOUNT DISCONNECT SWITCHES TO ANY HVAC UNIT. LOCATION GROUND FAULT INTERRUPTER DUPLEX TO BE COORDINATED WITH MECHANICAL CONTRACTOR. TRANSFORMERS: 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 APPLICABLE U.L. AND NEMA ISOLATED GROUND RECEPTACLE - 125V,20A,1P STANDARDS. SINGLE RECEPTACLE - 250V, AMPS CIRCUIT BREAKERS: THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, BOLT-ON TYPE OF SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. BREAKERS PER PANEL SCHEDULE USED AS A SWITCH FOR 120 VOLT LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED QUADRAPLEX RECEPTACLE - 125V,20A,1P "SWD". BREAKERS USED FOR PROTECTING HVAC EQUIPMENT SHALL BE RATED 'HACR'. <u>SURGE PROTECTION DEVICE (SPD): SPDS SHALL BE UL1449 4TH EDITION LISTED AND MANUFACTURED BY THOR</u> ISOLATED GROUND QUADRAPLEX RECEPTACLE SQUARE D, EATON OR SIEMENS. SPDs SHALL HAVE STANDARD 7-MODE PROTECTION AND SERVICE ENTRANCE & 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 PER PHASE 200kA PER PHASE FOR INTERMEDIATE DISTRIBUTION OR ROOF MOUNTED BRANCH PANELS, AND 100kA FOR DUPLEX RECEPTACLE - 125V,20A,1P BRANCH PANELS. SPDs SHALL BE EXTERNAL TO EQUIPMENT UNLESS NOTED OTHERWISE ON DRAWING. FLOOR MOUNTED) CABINETS: SHALL BE ONE PIECE CODE GAGE GALVANIZED STEEL WITH MOUNTING STUDS, WIRING GUTTERS OF AMPLE SIZE AND KNOCKOUTS FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98% JUNCTION BOX, SIZED PER N.E.C. CONDUCTIVE COPPER, ALUMINUM, OR COPPER-CLAD ALUMINUM. FRONTS SHALL BE ONE PIECE CODE GAGE COMBO RECEPT. & USB CHARGING DEVICE FURNITURE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS UNLESS OTHERWISE INDICATED. HUBBELL #USB20AC5 PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH TELEPHONE OUTLET BOX WITH CONDUIT TO GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT ACCESSIBLE LOCATION ABOVE CEILING DATA/TELEPHONE OUTLET BOX WITH CONDUIT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED TO ACCESSIBLE LOCATION ABOVE CEILING FOR GROUNDING. WHERE GROUNDING CONDUCTORS ARE ENCLOSED IN CONDUIT, GROUND CLAMPS SHALL BE OF A TYPE WHICH GROUND BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE METAL OR PLASTIC DATA OUTLET BOX WITH CONDUIT TO CONDUIT SHALL INCLUDE A GROUND WIRE SIZE IN ACCORDANCE WITH NEC TABLE 250. ACCESSIBLE LOCATION ABOVE CEILING CONDUIT: SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED MINIMUM OF 24" BELOW GRADE. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW TELEVISION OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING GRADE, MINIMUM SIZE 3/4". PROVIDE RIGID STEEL ELBOWS WHEN UNDERGROUND CONDUIT PENETRATES THE FLOOR SLAB. PROVIDE ELECTRICAL METALLIC TUBING (EMT) MEETING FSW-C563, ARMOR CABLE, OR SPEAKER FLEXIBLE CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERÌOR LOCATIONS. EMT CONNECTORS AND COUPLINGS 2" AND SMALLER SHALL BE COMPRESSION TYPE. CLAMP CONDUIT TO BOXES WITH BUSSING INSIDE PUSHBUTTON AND LOCKNUT OUTSIDE. HOLD UP BUTTON 1. RIGID STEEL CONDUIT: ANSI C80.1 2. INTERMEDIATE STEEL CONDUIT: UL 1242 AC ABOVE COUNTER 3. ELECTRICAL METALLIC TUBING AND FITTINGS: ANSI C80.3 FLEXIBLE METAL CONDUIT: ZINC COATED STEEL. WP WEATHER PROOF 5. LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS: UL 360. FITTINGS TO BE SPECIFICALLY EWC ELECTRIC WATER COOLER APPROVED FOR USE WITH THIS RACEWAY. 6. MC CABLE IS APPROVED FOR INSTALLATION ONLY AT THE END OF A RIGID CONDUIT RUN AND IS ONLY TO ORIGINATE FROM AN APPROVED JUNCTION BOX AND FEED DIRECTLY DOWN TO DEVICE. EWH ELECTRIC WATER HEATER E.C. ELECTRICAL CONTRACTOR CONDUCTORS: INSULATED SOFT ANNEALED 98% PURE COPPER WITH COLOR CODING, B AND S GAGE, #12 TO BE SOLID OR STRANDED, #10 AND LARGER TO BE STRANDED, MINIMUM #12, UNLESS OTHERWISE INDICATED. NIGHT LIGHT - ON 24 HOURS ALL EQUIPMENT TO BE PROVIDED WITH CU/AL 75° DEGREE C. TERMINAL LUGS. CONDUCTORS WITH "THHN" RCP CIRCULATION PUMP INSULATION MAY NOT BE USED UNDERGROUND AT SERVICE ENTRANCES, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 90° DEGREE C OR 600 VOLT AND TYPES AS FOLLOWS 120V, 1P EQUIPMENT CONNECTION **BRANCH CIRCUITS** THHN. THWN2 240V, 1P EQUIPMENT CONNECTION **FEEDERS** THWN2 240V, 3P EQUIPMENT CONNECTION THWN2, XHHW, XHHW2 SERVICE ENTRANCE 208V, 1P EQUIPMENT CONNECTION **DEVICES & COVERPLATES** 208V, 3P EQUIPMENT CONNECTION 277V, 1P EQUIPMENT CONNECTION ALL DEVICES AND COVERPLATES SHALL BE STAINLESS STEEL. STANDARD DUPLEX RECEPTACLES SHALL BE 480V, 3P EQUIPMENT CONNECTION <u>SINGLE RECEPTACLE: 15 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-15R.</u> HUBBELL #5251-#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING). 480V, 1P EQUIPMENT CONNECTION <u>DUPLEX RECEPTACLE: 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R.</u> HUBBELL #5342-#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING). DISCONNECT SWITCH - SIZE AND COMBINATION STARTER/DISCONNECT RECEPTACLES. UL RATED CLASS A, GROUP 1, SOLID STATE GROUND-FAULT SENSING LEVEL WITH 5 ma GROUND-FAULT TRIP LEVEL. HUBBÉLL #1G5362#. (DEVICE COLOR IS DEPENDENT ON AREA OF STARTER MANUAL MOTOR STARTER PANELBOARD AS SPECIFIED EXHAUST FAN LIGHTING FIXTURES: ALL LIGHTING FIXTURES AND ASSOCIATED LAMPS AND BALLASTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SECURITY PANEL GENERAL PAGING SYSTEM LAYOUT BRANCH CIRCUIT WIRING AND ARRANGE HOMERUNS FOR MAXIMUM ECONOMY AND EFFICIENCY INCREASE WIRE AND CONDUIT SIZE ACCORDINGLY IF VOLTAGE DROP EXCEEDS 3% OR LENGTH OF RUN FIRE ALARM AUDIO HORN CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILINGS OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL CONDUIT PARALLEL OR PERPENDICULAR TO ALL BUILDING LINES, SUCH THAT ALL FIRE ALARM PULL STATION OPENINGS, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC. ARE AVOIDED. FIRE ALARM AUDIO/VISUAL SIGNAL INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90° DEGREE MOTION DETECTOR BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM CONDUIT ENDS AND FIRE ALARM ADA VISUAL SIGNAL THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT FREE OF DEBRIS. SWITCHES AND OUTLETS SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR FIRE ALARM SHUT DOWN RELAY OUTLET. THE DISCONNECTION OR REMOVAL OF A RECEPTACLE, FIXTURE OR OTHER DEVICE FED FROM A BOX SHALL NOT INTERFERE WITH OR INTERRUPT THE CONDUCTOR CONTINUITY. SMOKE DETECTOR ADJUSTING AND TESTING: ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. COMPLETED WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS. HEAT DETECTOR DUCT MTD. SMOKE DETECTOR TOUCH-UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW, TO PRESENT A "NEW" APPEARANCE. DOOR CONTACTOR ROUGH-IN WITH CONDUIT TO ALL CONDUIT AND JUNCTION BOXES LOCATED WITHIN AN EXPOSED STRUCTURAL SYSTEM SHALL BE PAINTED ACCESSIBLE LOCATIONS ABOVE CEILING. TO MATCH THE COLOR OF THE STRUCTURE (COLOR TO BE VERIFIED WITH ARCHITECT). KP KEY PAD ALL LAMPS, FIXTURES AND ASSOCIATED HOUSINGS, LENSES, AND LOUVERS SHALL BE CLEANED PRIOR TO

OWNER ACCEPTANCE.

ELECTRICAL EQUIPMENT IDENTIFICATION:

TOGGLE TYPE SWITCH: 20 AMP, 120/277 VOLT AC SINGLE-POLE, QUIET TYPE, WITH MOUNTING YOKE

PILOT TYPE TOGGLE SWITCH: INSTALL SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE, RATED 120/277 VOLT AC. PILOT LIGHT GLOWS IN THE "ON" POSITION. HUBBELL #HBL 1221PL.

B. UNDERGROUND-TYPE PLASTIC LINE MARKER: SHALL BE PERMANENT, BRIGHT COLORED, CONTINUOUS-PRINTED

TAPE WITH WORDED PRINT WHICH MOST ACCURATELY DESCRIBES THE TYPE OF SERVICE FOR BURIED CABLE.

PLASTIC TAPE, INTENDED FOR DIRECT BURIAL SERVICE, NOT LESS THAN 6" WIDE x 4 MILS THICK. PROVIDE

C. CABLE/CONDUCTOR IDENTIFICATION BANDS: SHALL BE VINYL-CLOTH, SELF-ADHESIVE, WRAP-AROUND TYPE MARKER; EITHER PRE-NUMBERED PLASTIC COATED TYPE OR WRITE-ON TYPE WITH CLEAR PLASTIC SELF-

INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE-WIRED SCREW TERMINALS.

A. 2-POLE, 3-WAY & 4-WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE-POLE.

ENGRAVED PLASTIC-LAMINATE NAMEPLATES: SHALL BE ENGRAVING STOCK MELAMINE

PLASTIC LAMINATE 1/16" THICK, 1-1/2" HIGH (2" HIGH FOR 2 LINES OF TEXT) WITH 1/2" HIGH

SCREWS, UNLESS ADHESIVE MOUNTING IS NECESSARY DUE TO SUBSTRATE MATERIAL.

ADHESIVE COVER FLAP; NUMBERED TO SHOW CIRCUIT IDENTIFICATION.

ENGRAVER'S STYLE LETTERS. COLOR SHALL BE BLACK WITH WHITE LETTERING. NAMEPLATE SHALL BE PUNCHED FOR MECHANICAL FASTENING WITH SELF-TAPPING STAINLESS STEEL

AAN FIRE ALARM ANNUCIATOR

TAMPER SWITCH

PUSH-TO-EXIT BUTTON

ANSUL SUPPRESSION SYSTEM

FIRE ALARM DOOR RELEASE

GENERAL PAGING SYSTEM

KEYPAD (ROUGH-IN W/CONDUIT TO

ACCESSIBLE LOCATIONS ABOVE CEILING)

ACCESSIBLE LOCATIONS ABOVE CEILING)

MAGNETIC LOCK (ACCESS CONTROL)

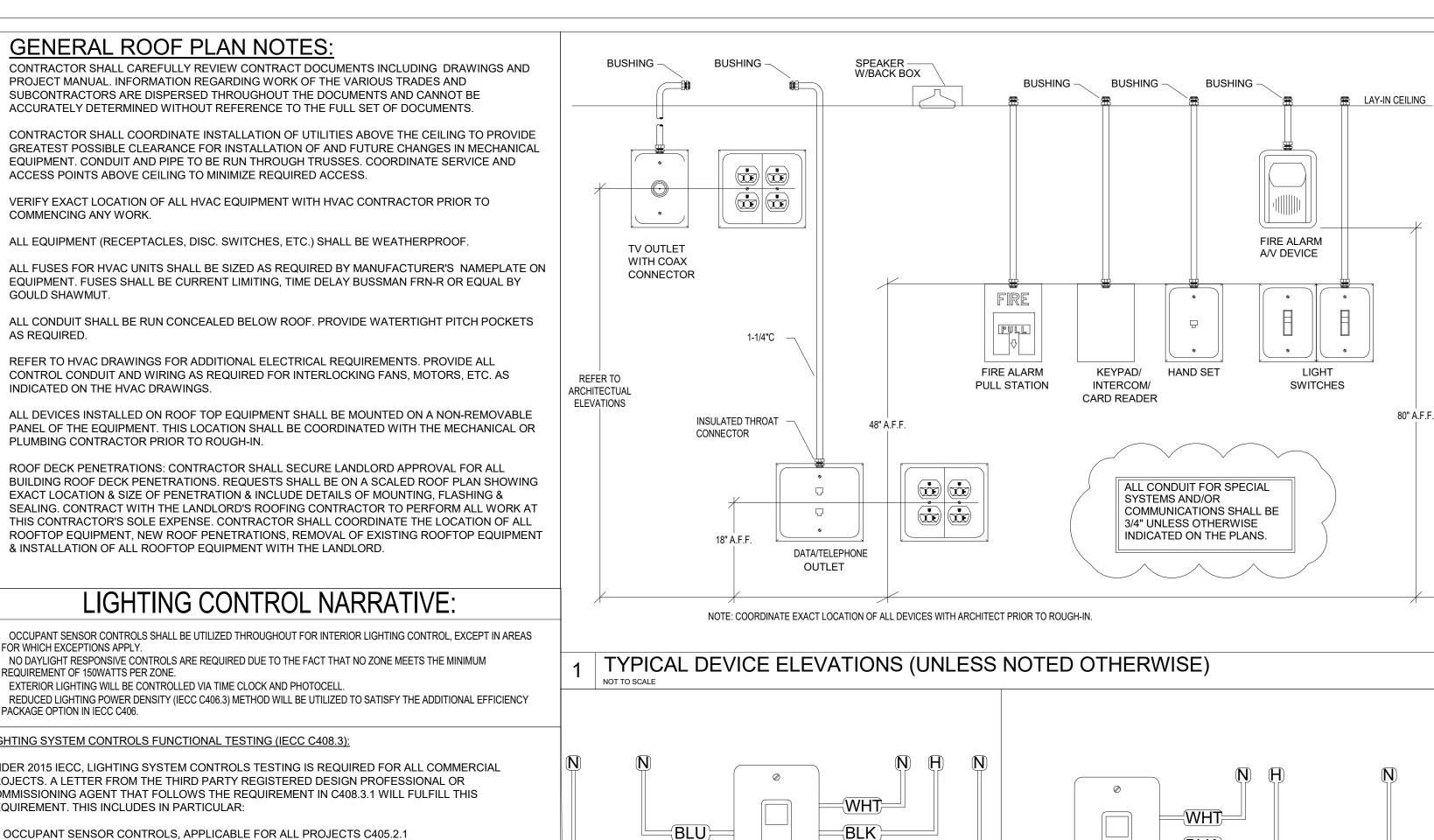
ELECTRONIC STRIKE (ACCESS CONTROL)

CARD READER (ROUGH-IN W/CONDUIT TO

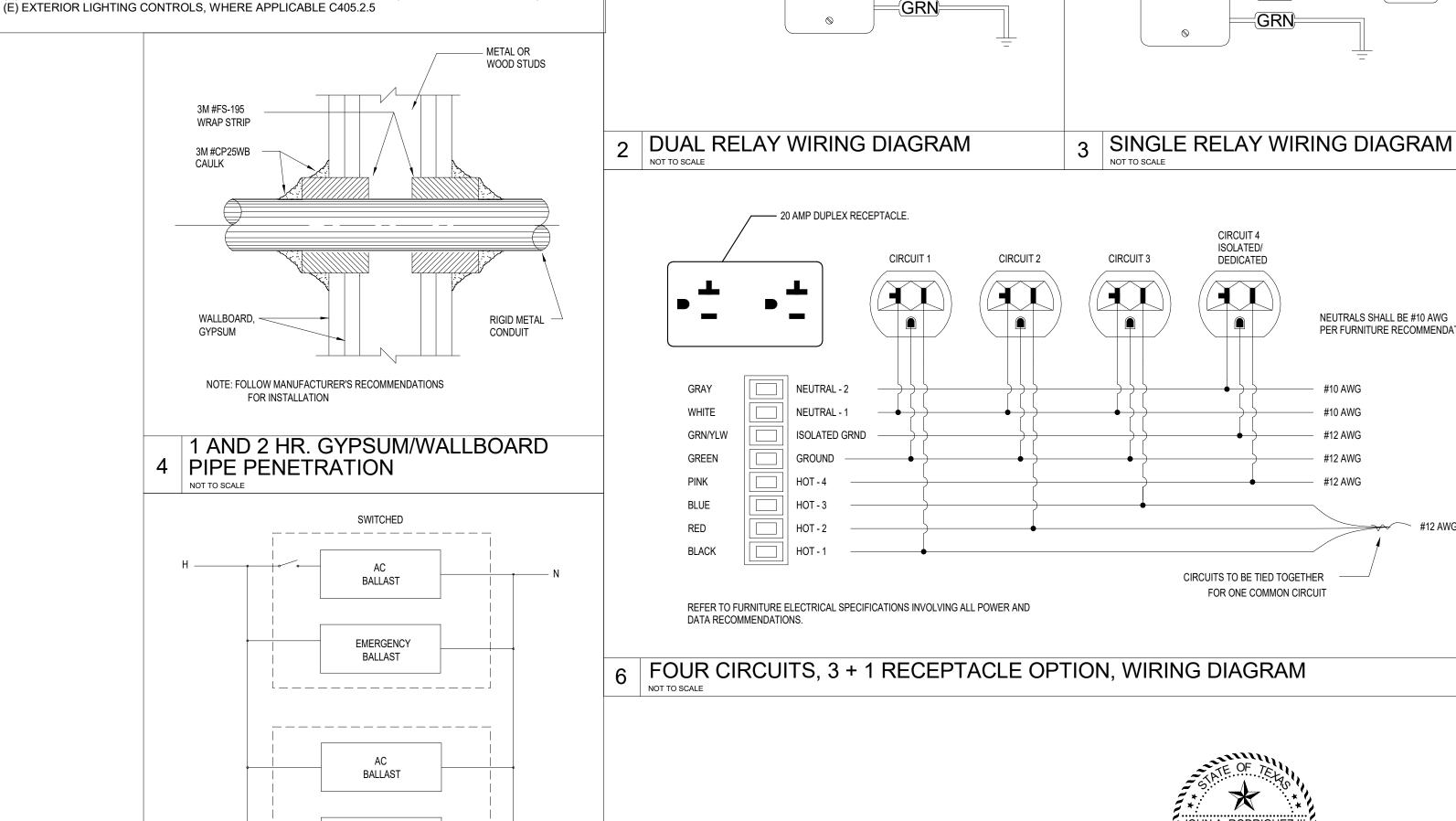
□ □ CAMERA

FS FLOW SWITCH

FACP FIRE ALARM CONTROL PANEL



∹BLK)==LOAD1;



=LOAD2=BLU

GENERAL ROOF PLAN NOTES

ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.

COMMENCING ANY WORK.

INDICATED ON THE HVAC DRAWINGS.

PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

GOULD SHAWMUT

FOR WHICH EXCEPTIONS APPLY.

PACKAGE OPTION IN IECC C406.

REQUIREMENT OF 150WATTS PER ZONE.

REQUIREMENT. THIS INCLUDES IN PARTICULAR:

AS REQUIRED.

PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND

ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS

SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE

EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND

VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO

REFER TO HVAC DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE ALL

CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING FANS, MOTORS, ETC. AS

ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL

EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING &

LIGHTING CONTROL NARRATIVE:

NO DAYLIGHT RESPONSIVE CONTROLS ARE REQUIRED DUE TO THE FACT THAT NO ZONE MEETS THE MINIMUM

UNDER 2015 IECC, LIGHTING SYSTEM CONTROLS TESTING IS REQUIRED FOR ALL COMMERCIAL

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

EMERGENCY

BALLAST

NIGHT LIGHTS (UNSWITCHED)

EMERGENCY BALLAST WIRING

PROJECTS. A LETTER FROM THE THIRD PARTY REGISTERED DESIGN PROFESSIONAL OR

(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

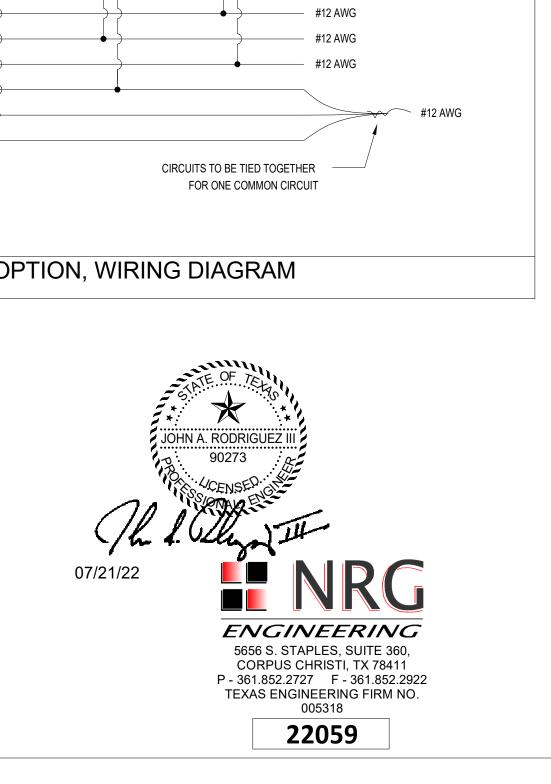
COMMISSIONING AGENT THAT FOLLOWS THE REQUIREMENT IN C408.3.1 WILL FULFILL THIS

& INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

EXTERIOR LIGHTING WILL BE CONTROLLED VIA TIME CLOCK AND PHOTOCELL

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

ALL EQUIPMENT (RECEPTACLES, DISC. SWITCHES, ETC.) SHALL BE WEATHERPROOF.



∃BLK∫

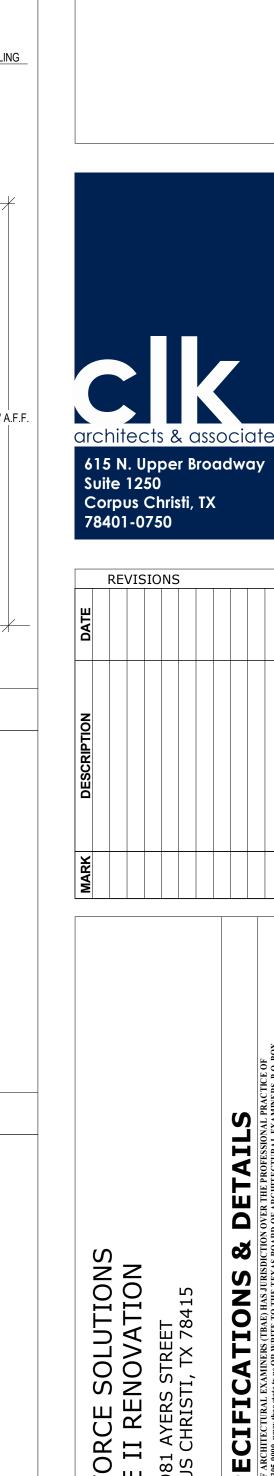
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NEUTRALS SHALL BE #10 AWG

#10 AWG

#10 AWG

PER FURNITURE RECOMMENDATIONS



VORI PHA

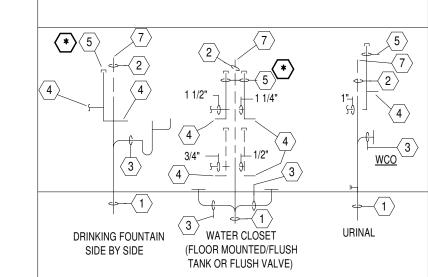
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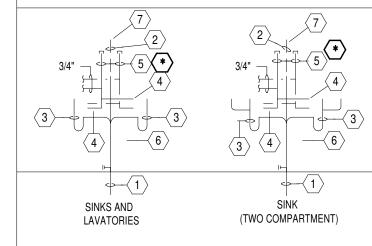
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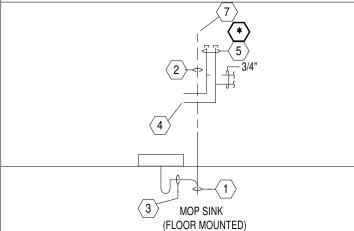
CKD. BY:

•	PLUMBING LEGEND	
	LEGEND ITEMS NOT ON DRAWINGS	
SYMBOL	DESCRIPTION	ABBR.
 	SOIL OR WASTE PIPING B.G.	WST
	SOIL OR WASTE PIPING A.G.	WST
CM		
GW	GREASE WASTE PIPING	GW
	VENT PIPING	V
SD	STORM DRAIN PIPING	SD
OD	OVERFLOW STORM DRAIN PIPING	OD
— G——	GAS LINE	G
F	FIRE OR SPRINKLER LINE	F
		<u> </u>
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
—TW——	TEMPERED DOMESTIC HOT WATER	TW
— 	GATE VALVE	GV
	GLOBE VALVE	GLV
	BALL VALVE	BV
	CHECK VALVE	CKV
•	BALANCING VALVE	BAV
	BUTTERFLY VALVE	BTV
+√+	PLUG VALVE	PLV
	PRESSURE REDUCING VALVE	PRV
<u>~</u>		
4	PRESSURE RELIEF VALVE	T&P
+>+	STRAINER	STR
——————————————————————————————————————	UNION	UN
	THERMOMETER WELL	TW
φ_	PRESSURE GAUGE	PG
——————————————————————————————————————		THRM
	THERMOMETER	
D	CONDENSATE OR INDIRECT DRAIN	D
<u> </u>	BRANCH CONNECTION, TOP	
	BRANCH CONNECTION, BOTTOM	
+0	ELBOW UP	
	ELBOW DOWN	
		500
$\overline{}$	FLOOR CLEANOUT (INTERIOR)	FCO
Ø	CLEANOUT AT GRADE (EXTERIOR)	COG
——————————————————————————————————————	CLEANOUT AT GRADE (EXTERIOR) WALL CLEANOUT	COG WCO
	, , ,	
	WALL CLEANOUT	WCO
	WALL CLEANOUT FLOOR DRAIN FLOOR SINK	WCO FD FS
—— ——————————————————————————————————	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB	WCO FD FS HB
	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT	WCO FD FS
	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB	WCO FD FS HB
	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT	WCO FD FS HB
	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION	WCO FD FS HB WH
	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION	WCO FD FS HB WH P/X
P X DS X	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION	WCO FD FS HB WH P/X DS/X
P X DS X	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION	WCO FD FS HB WH P/X DS/X
P X DS X	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR	WCO FD FS HB WH P/X DS/X F/X ABBR.
P X DS X	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL	WCO FD FS HB WH P/X DS/X F/X ABBR. AFF AP
P X DS X	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR	WCO FD FS HB WH P/X DS/X F/X ABBR. AFF AP BFF
P X DS X	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE	WCO FD FS HB WH P/X DS/X F/X ABBR. AFF AP
P X DS X	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR	WCO FD FS HB WH P/X DS/X F/X ABBR. AFF AP BFF
P X DS X	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE	WCO FD FS HB WH P/X DS/X F/X ABBR. AFF AP BFF BOP
	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE INDIRECT DRAIN EXISTING TO REMAIN	WCO FD FS HB WH P/X DS/X F/X ABBR. AFF AP BFF BOP D (E)
P X DS X	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE INDIRECT DRAIN EXISTING TO REMAIN EXISTING TO BE DEMOLISHED	WCO FD FS HB WH P/X DS/X F/X ABBR. AFF AP BFF BOP D (E) (D)
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	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE INDIRECT DRAIN EXISTING TO REMAIN EXISTING TO BE DEMOLISHED FINISHED FLOOR INVERT ELEVATION NORMALLY CLOSED	WCO FD FS HB WH P/X DS/X F/X ABBR. AFF AP BFF BOP D (E) (D) FIN FLR INV. EL. NC
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	WALL CLEANOUT FLOOR DRAIN FLOOR SINK HOSE BIBB WALL HYDRANT NEW TO EXISTING PIPE CONNECTION PLUMBING RISER IDENTIFICATION DOWNSPOUT RISER IDENTIFICATION FIRE RISER IDENTIFICATION ABBREVIATIONS ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM OF PIPE INDIRECT DRAIN EXISTING TO REMAIN EXISTING TO BE DEMOLISHED FINISHED FLOOR INVERT ELEVATION NORMALLY CLOSED SOFT WATER TRAP PRIMER	FD FS HB WH P/X DS/X F/X ABBR. AFF AP BFF BOP D (E) (D) FIN FLR INV. EL. NC SW TP

PLUMBING RISER DETAILS







KEYED NOTES - RISER DIAGRAM DETAILS:

- (1) REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE
- 4 REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE
- SHOCK ARRESTOR INLET; REFER TO SHOCK ARRESTOR SCHEDULE FOR SIZE. LOCATION SHOWN HERE FOR INDIVIDUAL FIXTURE WILL VARY WHERE INCLUDED AS PART OF PLUMBING CHASE BATTERY OF PIPING. REFER TO RISER DIAGRAMS FOR BATTERY LOCATIONS. ARRANGE ALL WATER LINES TO GRAVITY DRAIN.
- (6) WALL CLEANOUTS SHALL BE PROVIDED AT ALL END OF BATTERY OR END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO
- ALL PORTIONS OF DRAIN. SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER

TOGETHER AT A MINIMUM 42" ABOVE FIN. FLOOR.

GENERAL NOTES:

- 1. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
- 2. MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION OF ROUGH-IN WORK.
- 3. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES. PROVIDE UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
- 4. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
- 5. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE TYPE "L" TUBING, CHROME PLATED. PROVIDE 1/2" FIP X 3/8" OD COMPRESSION FITTINGS FOR ALL SINKS, LAVATORIES, AND SIMILAR FIXTURES.
- 6. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE CHROME PLATED ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG. PROVIDE C.P. CAST BRASS SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE. PROVIDE 1-1/2" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES. PROVIDE 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES, MCGUIRE OR EQUAL
- 7. ALL ROUGH-IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO PIPE AND FLUSH TO WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
- 8. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
- 9. ALL HANDICAPPED ACCESSIBLE FIXTURES SHALL BE OF APPROVED TYPES AND WITH REQUIRED CONTROLS INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARDS (TAS). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
- 10. INSULATE ALL EXPOSED WATER AND DRAIN LINES ON ADA/TAS ACCESSIBLE LAVATORIES AND SINKS WITH MCGUIRE PRO WRAP OR EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
- 11. ALL ADA/TAS SINKS SHALL BE STAMPED WITH DRAIN OUTLET AT THE REAR OF THE BOWL.
- 12. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH SENATE BILL 587 FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALL INCLUDE 0.5 GPM AND 2.2 GPM FLOW CONTROL RESPECTIVELY.
- 13. ORIENT ADA/TAS WATER CLOSET FLUSH VALVE WITH OPERATOR ON LARGE SIDE OF ENCLOSURE AND BELOW GRAB BARS.
- 14. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SUBFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
- 15. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE UNIFORMLY SLOPED ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.
- 16. EQUIVALENT MANUFACTURES OF CHINA FIXTURES ARE KOHLER, AND AMERICAN STANDARD. EQUIVALENT MANUFACTURES OF STAINLESS FIXTURES ARE JUST, ELKAY, AND ADVANCE TABCO.
- 17. WATER HEATER SHALL BE PROVIDED WITH CODE APPROVED VACUUM BREAKER AND BRASS ASME TEMPERATURE AND PRESSURE RELIEF VALVE. ROUTE TPR DRAIN LINE FULL SIZED TO EXTERIOR OF BUILDING AND TERMINATE 6" ABOVE FINISHED GRADE, OR AS INDICATED ON PLANS.
- 18. ROOF PENETRATIONS SHALL BE DONE IN STRICT COMPLIANCE WITH THE ARCHITECTS SPECIFICATIONS AND SHALL BE LEAK PROOF.
- 19. FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF STUB OUTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY WHICH MAY AFFECT THE INTENDED DESIGN.
- ALL STATE AND LOCAL CODES.

20. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH

- 21. THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
- 22. ALL WATER HEATER SUPPLY CONNECTIONS SHALL HAVE HEAT TRAP NIPPLE CONNECTIONS. HEAT TRAP NIPPLES NOT REQUIRED IF HOT WATER RECIRCULATION SYSTEM IS PROVIDED.

PLUMBING SYSTEM SECTION 15400

THE WORK INCLUDES PROVIDING NEW MATERIALS, FITTINGS, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH-IN AND FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

CONNECTION CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OR THIS SECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC. SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

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

SUBMITTALS

COORDINATE WITH DIVISION 1 FOR SUBMITTAL TIMETABLE REQUIREMENTS, UNLESS NOTED OTHERWISE WITHIN THIRTY (30) DAYS AFTER THE CONTRACT IS AWARDED THE CONTRACTOR SHALL SUBMIT A MINIMUM OF ONE ELECTRONIC COPY IN A PORTABLE DIGITAL FORMAT (PDF) COMPLETE WITH TABLE OF CONTENTS AND BOUND SETS OF SHOP DRAWINGS AND COMPLETE DATA COVERING EACH ITEM OF EQUIPMENT OR MATERIAL. THE FIRST SUBMITTAL OF EACH ITEM REQUIRING A SUBMITTAL MUST BE RECEIVED BY THE ARCHITECT OR ENGINEER WITHIN THE ABOVE THIRTY DAY PERIOD. THE ARCHITECT OR ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DELAYS OR COSTS INCURRED DUE TO EXCESSIVE SHOP DRAWING REVIEW TIME FOR SUBMITTALS RECEIVED AFTER THE THIRTY (30) DAY TIME LIMIT. THE ARCHITECT AND ENGINEER WILL RETAIN A COPY OF ALL SHOP DRAWINGS FOR THEIR FILES. WHERE FULL SIZE DRAWINGS ARE INVOLVED, SUBMIT ONE (1) PRINT IN LIEU OF ELECTRONIC COPIES. ALL LITERATURE PERTAINING TO AN ITEM SUBJECT TO SHOP DRAWING SUBMITTAL SHALL BE SUBMITTED AT ONE TIME. A SUBMITTAL SHALL NOT CONTAIN INFORMATION FROM MORE THAN ONE SPECIFICATION SECTION. BUT MAY HAVE A SECTION SUBDIVIDED INTO ITEMS OR EQUIPMENT AS LISTED IN EACH SECTION. THE CONTRACTOR MAY ELECT TO SUBMIT EACH ITEM OR TYPE OF EQUIPMENT SEPARATELY.

PIPING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

SEWER/WASTE PIPING: SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE HUBLESS CAST IRON, PVC PIPE WHERE ACCEPTED BY CODE, FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH SOVENT WELD JOINTS AND FITTINGS. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/4" PER FOOT FOR SIZES 3" AND SMALLER AND 1/8" PER FOOT FOR PIPE SIZES 4" AND LARGER.

VENTS: PROVIDE A COMPLETE SYSTEM OF STANDARD WEIGHT CAST IRON. DO NOT USE DWV PLASTIC IN RETURN AIR PLENUM SPACES. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZES.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSCURE FROM VIEW.

WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT THE ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE 1/2" MIN. TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. PROVIDE WATER HAMMER ARRESSTORS AT EACH FIXTURE STOP. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE TIN-ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF COPPER PIPING.

PIPE INSULATION: INSULATE ALL HOT AND COLD WATER PIPING. PROVIDE 1" PRE-FORMED FIBERGLASS, ASJ-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547. OR PROVIDE WHERE PERMITTED BY LOCAL CODES, 1" SELF-ADHESIVE CLOSED CELL FOAM PIPE INSULATION WITH PRE-FORMED PVC FITTING COVERS - EQUAL TO SELF-ADHESIVE ARMACELL'S AP ARMAFLEX WITH K FACTOR OF 0.27 AT 75 DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURES BELOW 60 DEGREES F.

PROVIDE HEAT TRAPS AT HOT AND COLD WATER CONNECTIONS TO WATER HEATER.

SHUTOFF VALVES, WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE. FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO NIBCO NO. T-585-70-66 BALL VALVE. BRONZE BODY, S.S. BALL AND STEM, TEFLON SEATS AND PACKING, 600 LB. W.O.G., THREADED

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.

SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND/OR SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES. DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED TRAPS AND SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROMIUM PLATED BRASS, WITH CHROME PLATED BRASS NUTS AND CHROME PLATED BRASS ESCUTCHEON PLATES. PROVIDE HUBLESS CAST IRON WASTE PIPING AND FITTINGS FOR THE TWO, THREE AND, FOUR COMPARTMENT SINKS. REMOVE MARKINGS FROM ALL PIPING WHEN INSTALLATION IS COMPLETE.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITIONS.

TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

SHOP DRAWINGS: CONTRACTORS TO PROVIDE SIX SETS OF SHOP DRAWING SUBMITTALS FOR REVIEW AND APPROVAL TO ARCHITECT. OWNER, ARCHITECT, AND ENGINEER (WHEN APPLICABLE) TO RETAIN ONE SET FOR THEIR OWN RECORDS.

GENERAL ROOF PLAN NOTES:

- 1. 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.
- 2. 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
- 3. 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.

SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.

4. 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.

AUTOMATIC SPRINKLER SYSTEM SECTION 15300

EXECUTION OF THE WORK OF THIS SECTION.

PROVIDE AUTOMATIC FIRE-EXTINGUISHING DISTRIBUTION SYSTEM THROUGHOUT THE PROJECT, TO ACCOMMODATE ALL PARTITIONS, SOFFITS, CEILING DROPS, CEILING HEIGHTS AND MATERIALS. ETC., AS INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN, AND AS REQUIRED BY THE CONDITIONS OF THE PROJECT SITE. PROVIDE A COMPLETE BACKFLOW PREVENTION SYSTEM FOR THE AUTOMATIC SPRINKLER SYSTEM, INCLUDING ALL REQUIRED ACCESSORIES AND COMPONENTS.

COMPLY WITH ALL REQUIREMENTS OF THE GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA #13 AND ALL APPLICABLE STATE AND LOCAL LAWS AND ORDINANCES.

SUBMIT SHOP DRAWINGS TO INDICATE DESIGN. LAYOUT, MATERIALS AND INSTALLATION, SUBMIT DRAWINGS TO AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL PRIOR TO

SUBMIT AUTOMATIC SPRINKLER SYSTEM SHOP DRAWING PLANS AND SPECIFICATIONS TO THE FIRE MARSHALL FOR REVIEW AND APPROVAL.

SPRINKLER HEADS SHALL BE CHROME PLATED, TYPICALLY. IN ALL AREAS EXPOSED TO "PUBLIC" VIEW (INCLUDING TOILETS), PROVIDE PAINTED CONCEALED TYPE. IN OTHER AREAS, PROVIDE STANDARD HEADS, EITHER PENDANT OR SIDEWALL TYPE IN ROOMS WITH CEILINGS, UPRIGHT TYPE HEADS IN ROOMS WITHOUT CEILINGS. IF SPRINKLER HEAD IS AT OR BELOW 7 FEET ABOVE FLOOR, INSTALL HEAD GUARD TO PREVENT ACCIDENTAL TRIPPING.

COORDINATE SPRINKLER SYSTEM WORK WITH OTHER TRADES TO CLEAR PIPING, LIGHTING, DUCTWORK AND STRUCTURAL MEMBERS.

IN ALL AREAS WITH CEILINGS, INSTALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE, UNLESS OTHERWISE DIRECTED BY ARCHITECT. LOCATE SPRINKLER HEADS CENTERED IN CEILING PANELS WHERE POSSIBLE, OR AS OTHERWISE REQUIRED BY ACTUAL CONDITIONS. LOCATE AND INSULATE DRAIN LINES TO PREVENT WATER DAMAGE IN BUILDING.

PLUMBING NARRATIVE:

ELECTRIC WATER HEATERS LESS THAN 12 KW SHALL HAVE A PERFORMANCE RATING OF 0.97.

THE HOT WATER HEATING SYSTEM SHALL BE BY AN ELECTRIC WATER HEATER WITH A RECIRCULATION LINE AND PUMP. THE RE-CIRC PUMP SHALL BE CONTROLLED BY AN AQUASTAT AND TIME CLOCK. THE TIME CLOCK SHALL ENABLE THE PUMP TO OPERATE FROM 6AM TO 8PM (ADJ.) AND SHUT OFF THE PUMP FROM 8PM TO 6AM (ADJ.).

THE HOT WATER HEATING SYSTEM SHALL BE BY WATER HEATER WITH A MAXIMUM OF 6'-0" OF 1/4" IUBING, 3"-0" OF 3/8" TUBING TO LAVATORIES AND 43"-0" OF 1/2" TUBING, 21"-0" OF 3/4" TUBING TO ALI OTHER FIXTURES.

REFER TO THE 2015 IECC SECTION C404 SERVICE WATER HEATING FOR OTHER REQUIREMENTS.

THE PLUMBING 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

GENERAL ENERGY NOTES:

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 INTEGRAL 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 I	NSULATION	(inch)	MINIMUM DUCT INSULATION (R)
	NORMINAL	PIPE DIA.	
FLUID	< 1.5"	<u>≥</u> 1.5"	UNCONDITIONED SPACE ≥5
STEAM	1-1/2	3-1/2	OUTSIDE BLDG. ENVELOPE ≥8
HOT WATER	1	1-1/2	EXCEPTIONS:
CHILL WATER or REFRIGERANT	1	1	1. WHEN LOCATED WITHIN EQUIPMENT. 2. WHEN DESIGN TEMP. DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F.



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REVISIONS

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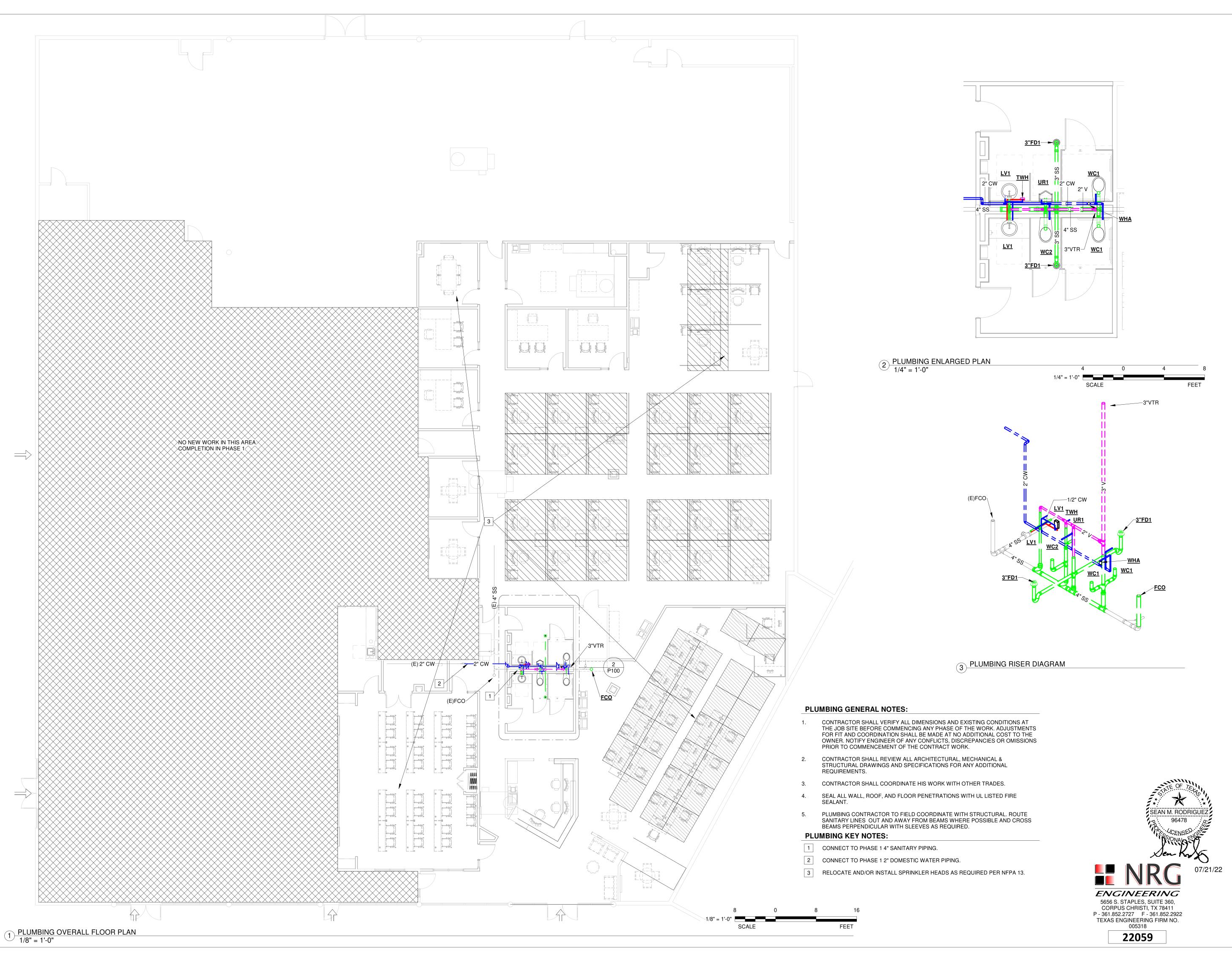
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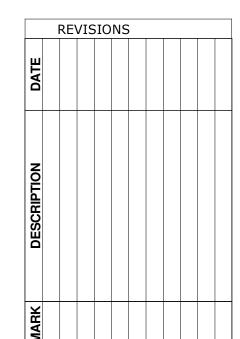
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202217 ISSUE DATE: 07/21/2022

SHEET NUMBER

DRN. BY:

CKD. BY:

\/A 4D	DI ANI MA DI		MINIMU	JM ROUGH	-IN SIZES		DESCRIPTION
YMB.	PLAN MARK	WST 8	& VENT	DRAIN	CW	HW	DESCRIPTION
	TANKLESS WATER HEATER TWH (TWO LAVATORYS)				3/8"	3/8"	EEMAX SP3512 SINGLE POINT TANKLESS WATER HEATER: REPLACEABLE NICKEL CHROME ELEMENT, 150 PSI RATED, 3/8" COMPRESSION FITTINGS, FACTORY SET AT 105°F, 0.3 GPM TURN ON, 3.5 KW. 120/1/60, 48°F TEMP RISE AT 0.5 GPM. MOUNT UNDER LAVATORY.
	HUB DRAIN HD1	2"	1-1/2"	2"			PROSET No.TG23HD PVC HUB DRAIN WITH 3" HUB AND 2" TRAP GUARD AND DEEP SEAL TRAP.
၉	FLOOR CLEANOUT FCO	SEE PLAN	SEE PLAN	SEE PLAN			SIOUX CHIEF 852-4PIV "PVC" FLOOR CLEANOUT: 4" PVC HUB, ROUND SCORIATED NICKEL BRONZE MEDIUM DUTY TOP, VANDAL-PROOF SCREWS, THREADED PVC PLUG; MOUNT COVER FLUSH WITH FLOOR.
	FLOOR DRAIN FD1 (REST ROOMS)	2"	1-1/2"	2"			WADE 1100-A6-1-TSD (MIFAB F1100)(JOSAM 30000-A)(SMITH 2005)(ZURN No.ZN-415B-P)(WATTS FD-100-A) FLOOR DRAIN: CAST IRON DRAIN BODY WITH 1/2" IPS TRAP PRIMER TAP, BOTTOM OUTLET, CLAMPING COLLAR, WEEP HOLES, V.P. SCREWS, ADJUSTABLE TOP; STRAINER: 6" DIAMETER, LIGHT DUTY, NICKEL BRONZE, HEEL PROOF PERFORATED; DEEP SEAL TRAP. PROVIDE PROSET SYSTEMS TRAP GUARD INSERT.
	HUB DRAIN HD1	2"	1-1/2"	2"			PROSET No.TG23HD PVC HUB DRAIN WITH 3" HUB AND 2" TRAP GUARD AND DEEP SEAL TRAP.
	WALL CLEANOUT WCO	SEE PLAN	SEE PLAN	SEE PLAN			ZURN NO. ZS1469-7-VP ROUND STAINLESS STEEL ACCESS COVER COMPLETE WITH SECURING SCREW, MIN 5" DIA PROVIDE CLEANOUT PLUG TO MATCH PIPE MATERIAL.
0	WATER HAMMER ARRESTOR WHA	SEE DETAIL	SEE DETAIL	SEE DETAIL			SIOUX CHIEF 650 SERIES WATER HAMMER ARRESTER: TYPE L COPPER TUBE, POLY PISTON WITH TWO EPDM O-RINGS, ASSE 1010 CERT., MAX. 250°F, MAX. 350 PSIG, LEAD FREE, APPROVED FOR INSTALLATION WITH NO ACCESS PANEL REQUIRED. INSTALL TO MANUFACTURES SPECIFICATIONS.

SYMB.	PLAN MARK		MINIMU	JM ROUGH-	IN SIZES		DESCRIPTION		
STIVID.	PLAN WARK	WST	WST & VENT		CW	HW	DESCRIF HON		
	LAVATORY LV1 (UNDERMOUNT)	2"	2" 1-1/2" 1-1/4"	1/2"	1/2" 1/2"	KOHLER NO. K-2211 "CAXTON" OVAL UNDERMOUNT LAVATORY: TAS COMPLIAN WHITE, V.C., FRONT OVERFLOW; WATTS P1070 (CHICAGO 420-T45E2805ABCP) FAUCET: C.P. 0.5 AERATOR, DECK PLATE, SINGLE LEVER HANDEL, HOT AND COLD WATER MIXING THERMOSTATIC, ASSE 1070 CERTIFIED, SET AT 105°F; WASTE: 1-1/4" 17 GA C.P. BRASS OFFSET TAILPIECE WITH GRID STRAINER, 1-1/17 GA BRASS C.P. ADJ. "P"-TRAP W/C.O., ESCUTCHEON; SUPPLY: C.P. ANGLE SUPPLIES W/STOPS, 3/8" FLEX TUBE RISERS, ESCUTCHEONS; PROVIDE TRUEBRO 103 EZ SERIES INSULATION KIT ON EXPOSED PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.			
	URINAL UR1	2"	2"	1-1/2"	3/4"		AMERICAN STANDARD NO. 6550.001 "ALLBROOK" (KOHLER NO. K-5016-ET "DEXTER") URINAL: TAS COMPLIANT, SIPHON JET, V.C., WHITE, WALL HUNG, 3/1 TOP SPUD, 0.5 GAL. FLUSH, 14" LIP, MOUNT AT 17" A.F.F. TO TOP OF LIP; SLOAN ROYAL NO.186-0.5 FLUSH VALVE: 0.5 GPF, DIAPHRAGM TYPE, EXPOSED, C.P., 3/4" VACUUM BREAKER TOP SPUD, MANUAL OPERATED; ZURN ZR-1222 C.I. WA CARRIER: C.I., FLOOR MOUNTED.		
(i)	WATER CLOSET WC1 (FLOOR MOUNT) (FLUSH VALVE)	4"	2"	4"	1"		AMERICAN STANDARD 3043.001 "MADERA" FLUSH VALVE WATER CLOSET: ADUTAS COMPLIANT, 17"-19" MAX. TOP OF SEAT, FLOOR MOUNTED, BOTTOM OUTLET, V.C., 1.28 GPF SIPHON FLUSH, ELONGATED, 1-1/2" TOP SPUD, WHITE, BOLT CAPS, CLOSET SEAL; CHURCH 255SSC SEAT: ELONGATED, PLASTIC, WHITE, OPEN FRONT, SS POSTS, SELF SUSTAINING CHECK HINGE; SLOAN 111-1.28 "ROYAL" FLUSH VALVE: LEVER HANDLE, DIAPHRAGM FLUSHOMETER, VACUUM BREAKER, C.P., EXPOSED, 1.28 GPF, ESCUTCHEON, MOUNT HANDLE MAX. A.F.F. AT WIDE SIDE OF STALL.		
	WATER CLOSET WC2 (FLOOR MOUNT) (FLUSH VALVE)	4"	2"	4"	1"		AMERICAN STANDARD 3451.001 "MADERA" FLUSH VALVE WATER CLOSET: 15" TOP OF SEAT, FLOOR MOUNTED, BOTTOM OUTLET, V.C., 1.28 GPF SIPHON FLUSH, ELONGATED, 1-1/2" TOP SPUD, WHITE, BOLT CAPS, CLOSET SEAL; CHURCH 255SSC SEAT: ELONGATED, PLASTIC, WHITE, OPEN FRONT, SS POST SELF SUSTAINING CHECK HINGE; SLOAN 111-1.28 "ROYAL" FLUSH VALVE: LEVER HANDLE, DIAPHRAGM FLUSHOMETER, VACUUM BREAKER, C.P., EXPOSED, 1.28 GPF, ESCUTCHEON, MOUNT HANDLE 44" MAX. A.F.F. AT WIDE SIDE OF STALL.		

– 3/8" COPPER

ANGLE STOP

TUBING

HOT OUTLET

MOUNTING

FLANGES(4)

HEATER;

COLD INLET MAIN

— COMPRESSION FITTINGS (2)

Sui Co	5 N. te 12 rpus 101-0	250 Ch	ırist		wc	ıy	
	REVI	SIO	NS				
DATE							
DESCRIPTION							

WORKFORCE SOLUTION PHASE II RENOVATION 4981 AYERS S' CORPUS CHRISTI,

202217 PHASE: **ISSUE DATE** 07/21/2022 DRN. BY:

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CKD. BY: SHEET NUMBER

FIRE PROTECTION DESIGN CRITERIA

BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE.

BUILDING USE GROUP: B - BUSINESS

BUILDING CONSTRUCTION: FULLY SPRINKLED.

BUILDING CLASSIFICATION: LIGHT HAZARD

DENSITY/AREA DESIGN: 0.10 GPM/SQ.FT. @ 1500 SQ.FT.

HOSE DEMAND REQUIREMENTS: 100 GPM (INSIDE), 150 GPM (OUTSIDE).

SPRINKLER HEAD TYPE: AREAS WITH CEILINGS PROVIDE PAINTED CONCEALED TYPE, AREAS WITHOUT CEILINGS PROVIDE BRASS (UP-RIGHT) TYPE. EXPOSED HEADS SHALL HAVE METAL CAGE PROTECTIVE COVER.

FLOW TEST: CONTRACTOR SHALL PERFORM WATER FLOW TEST AT SITE FOR USE WITH HIS HYDRAULIC CALCULATIONS.

NOTE: THE ABOVE MENTIONED CRITERIA SHALL BE USED AS A MINIMUM DESIGN BASIS, BUILDING TYPE, CONSTRUCTION, AND CLASSIFICATION TO BE CONFIRMED BY CRITERIA SET FORTH IN ARCHITECTURAL DRAWINGS. SPRINKLER SYSTEM DESIGN SHALL MEET REQUIREMENTS OF NFPA 13 LATEST EDITION, NFPA 14, NFPA 20, ALL STATE/LOCAL CODES, AND OWNER'S INSURANCE COMPANY. WORK IS LIMITED TO THE PHASE 1 AREA TO BE FINISHED OUT AND ANY NECESSARY MODIFICATIONS TO THE FIRE RISER.

NOTE: FINAL FIRE PROTECTION DESIGN CRITERIA SHALL BE DETERMINED BY THE FIRE PROTECTION CONTRACTOR. SUBMIT ONE DIGITAL SET OF SHOP DRAWINGS AND CALCULATIONS IN A PORTABLE DIGITAL FORMAT (PDF). SUBMIT ONE TO THE ENGINEER FOR REVIEW, ONE FOR SITE, ONE FOR THE OWNER, AND ONE TO THE FIRE MARSHALL FOR APPROVAL.

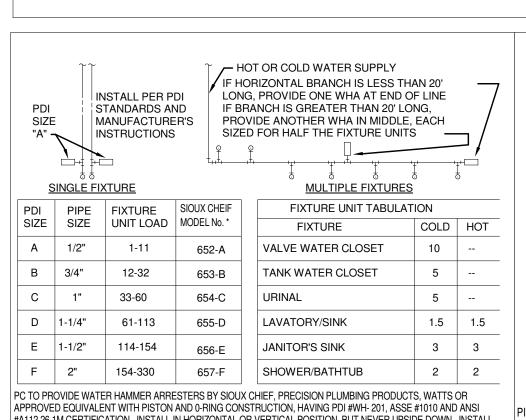
PIPING SYSTEM	PIPING MATERIAL				
SANITARY SEWER BELOW GRADE	SCHEDULE 40 DWV PVC				
SANITARY DRAIN AND VENTS ABOVE GRADE	SCHEDULE 40 DWV PVC *				
DOMESTIC HOT & COLD WATER BELOW GRADE	COPPER, TYPE "K" SOFT				
DOMESTIC HOT & COLD WATER ABOVE GRADE	COPPER, TYPE "L" HARD DRAWN				
NATURAL GAS	SCHEDULE 40 BLACK STEEL				
HOT WATER PIPE INSULATION	1" RIGID FIBER GLASS				
FIRE SPRINKLER BELOW GRADE	DUCTILE IRON WITH MECH. JOINTS				
FIRE SPRINKLER ABOVE GRADE - ≤ 2"	BLACK STEEL SCHEDULE 40				
FIRE SPRINKLER ABOVE GRADE - > 2-1/2"	BLACK STEEL SCHEDULE 10				

__ CONDUIT CLAMPS OR

1/4" "U" BOLTS

CEILING PLENUMS ARE USED FOR RETURN AIR, CONTRACTOR SHALL ONLY USE

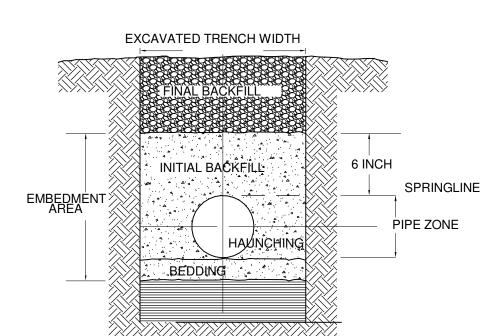
BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE.



#A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

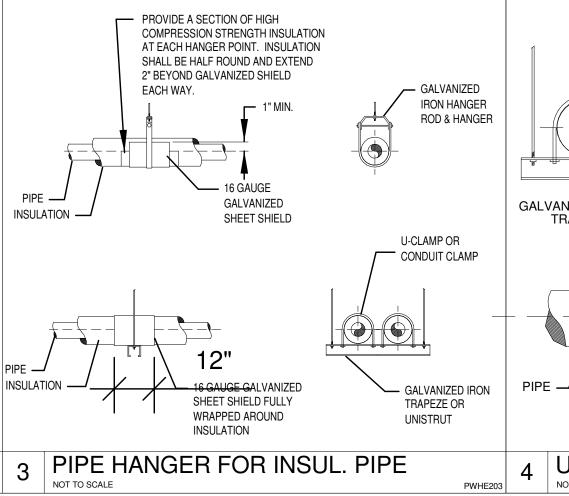
2 WATER HAMMER ARRESTOR

UNDERGROUND INSTALLATION OF PLASTIC PIPE



UNDERGROUND INSTALLATION DETAIL OF PLASTIC PIPING SYSTEMS

NOTE-IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.



PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE: ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND

OTHER GRAVITY-FLOW APPLICATIONS. ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.

- PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVERW SECTIONS IN THE TRENCH.
- 3. PIPE SHOULD BE SURROUNDED WITH AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING TO BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
- 4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DOENTHAND.
- 5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED
- 6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENOTTRAVERSE THE PIPE TRENCH.

TO CONSOLIDATE THE FINAL BACKFILL.

TURN LEAD FLASHING DOWN

2" MINIMUM INTO STACK —

COORDINATE REQUIRED HEIGHT WITH LOCAL JURISDICTION—— 4" LB./SQ. FT. LEAD FLASHING OVER VENT STACK -**GALVANIZED IRON** GALVANIZED SEALANT & BASE FLASHING TRAPEZE OR UNISTRUT IRON HANGER SHEET SHIELD RE: ARCHITECTURAL **ROD & HANGER** BUILT-UP ROOF SYSTEM RE: ARCHITECTURAL ----INSTANT FLOW RE: SCHEDULE -16 GAUGE GALVANIZED ROOF STRUCTURE RE: SHEET SHIELD FULLY 12" MIN STRUCTURAL DRAWINGS -WRAPPED AROUND 5 VENT THRU ROOF TYPICAL INSTANT WATER HEATER DETAIL UNINSULATED PIPE HANGER NOT TO SCALE

UNDERGROUND INSTALLATION