RENOVATION

WORKFORCE SOLUTIONS
4977 AYERS STREET, SUITE 4985
CORPUS CHRISTI, TX 78415

REGISTERED ARCHITECT
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21615
STATE OF TEXAS
01/12/2022

CONSTRUCTION DOCUMENTS
01/12/2022

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SITE PLAN

PLAN NORTH

PROJECT CODE SUMMARY

APPLICABLE CODES & REGULATIONS:	LOCAL ORDINANCES:
2015 ICC INTERNATIONAL BUILDING CODE	
2015 ICC EXISTING BUILDING CODE	
2015 ICC ENERGY CONSERVATION CODE	
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, TITLE III	
PROJECT SQUARE FOOTAGE:	
RENOVATION: 8,075 SF	

OCCUPANCY & AREA	DETERMINATION	REFERENCE
OCCUPANCY TYPE:	B, A, S-1	IBC SECTION 304.1
OCCUPANT LOAD:	196	IBC 2012 TABLE 1004.1.2
CONSTRUCTION TYPE:	TYPE II-B	IBC CH. 6
ALLOWABLE FLOOR AREA:	?	IBC CH. 5
FIRE RESISTANCE SCHEDULE:		
FLOOR CONSTRUCTION:	0HR	IBC TABLE 601 TX ADMIN CODE CH. 135
SECONDARY WF BEAMS/GIRDERS:	0HR	.
SECONDARY TS COLUMN/TRUSS:	0HR	.
ROOF CONSTRUCTION:	0 HR	IBC TABLE 601 .
SECONDARY WF BEAMS/GIRDERS:	0 HR	.
SECONDARY TS COLUMN/TRUSS:	0 HR	.
INTERIOR RATED WALLS:	N/A	ULU419
LIFE SAFETY		
FIRE SPRINKLER SYSTEM:	YES	IBC 903.2.6, IFC 1103.5

REFERENCE SYMBOLS & TAGS

WALL SECTION

DETAIL REFERENCE

ELEVATION REFERENCE

KEY NOTE SYMBOLS - SHEET BASED
SEE CORRESPONDING NUMBERED KEY NOTE ON SHEET WHERE REFERENCE OCCURS

1i — SPECIALTY EQUIPMENT TAG

12" / 6" — ROOF PITCH

— WINDOW TAG

101 — DOOR NUMBER (SEE SCHEDULE)

Room name

101 — ROOM TAG

1IX — PARTITION TYPE TAG

SEE PARTITION SYMBOL DESCRIPTION ON SHEET A9.X.X

FLOOR REFERENCE

MATCH LINE REFERENCE

REVISION NUMBER AND EXTENT

INFO - ABBREVIATIONS

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

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ABBREVIATIONS

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS REGULRES JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS AND THAT THE PLANS AND SPECIFICATIONS ARE NOT VALID UNLESS SEALED BY A REGISTERED ARCHITECT IN TEXAS.
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PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/12/2022
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CKD. BY:	Checker

SHEET NUMBER
G001

304 TURNING SPACE

FIG. 304.3.2
T-SHAPED TURNING SPACE

305 CLEAR FLOOR OR GROUND SPACE

FIG. 305.3
CLEAR FLOOR OR GROUND SPACE

FIG. 305.5
POSITION OF CLEAR FLOOR OR GROUND SPACE

FIG. 305.7.1
MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

FIG. 305.7.2
MANEUVERING CLEARANCE IN AN ALCOVE, PARALELL APPROACH

307 PROTRUDING OBJECTS

FIG. 307.2
LIMITS OF PROTRUDING OBJECTS

FIG. 307.3
POST-MOUNTED PROTRUDING OBJECTS

FIG. 307.4
VERTICAL CLEARANCE

308 REACH RANGES

FIG. 308.2.1
UNOBSTRUCTED FORWARD REACH

FIG. 308.2.2
OBSTRUCTED HIGH FORWARD REACH

FIG. 308.3.1
UNOBSTRUCTED SIDE REACH

FIG. 308.3.2
OBSTRUCTED HIGH SIDE REACH

403 WALKING SURFACES

FIG. 403.5.1
CLEAR WIDTH OF AN ACCESSIBLE ROUTE

(a)
180 DEGREE TURN

(b)
180 DEGREE TURN (EXCEPTION)

FIG. 403.5.2
CLEAR WIDTH AT TURN

404 DOORS, DOORWAYS AND GATES

(a)
HINGED DOOR

(b)
SLIDING DOOR

(c)
FOLDING DOOR

(a)
FRONT APPROACH, PULL SIDE

(b)
FRONT APPROACH, PUSH SIDE

(c)
FRONT APPROACH, PUSH SIDE DOOR PROVIDED WITH BOTH CLOSER AND LATCH

(d)
HINGE APPROACH, PULL SIDE

(e)
HINGE APPROACH, PULL SIDE

(f)
HINGE APPROACH, PUSH SIDE

(g)
HINGE APPROACH, PUSH SIDE DOOR PROVIDED WITH BOTH CLOSER AND LATCH.

(h)
LATCH APPROACH, PULL SIDE

(i)
LATCH APPROACH, PULL SIDE DOOR PROVIDED WITH CLOSER

(j)
LATCH APPROACH, PUSH SIDE

(k)
LATCH APPROACH, PUSH SIDE DOOR PROVIDED WITH CLOSER

FIG. 404.2.1
MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

(a)
FRONT APPROACH

(b)
SIDE APPROACH

(c)
POCKET OR HINGE APPROACH

(d)
STOP OR LATCH APPROACH

FIG. 404.2..4.2
MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES AND FOLDING DOORS

(a)
PULL SIDE

(b)
PUSH SIDE

(c)
PUSH SIDE DOOR PROVIDED WITH BOTH CLOSER AND LATCH

FIG. 404.2.4.3
MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

FIG. 404.2.6
DOORS IN SERIES AND GATES IN SERIES

405 RAMPS

(a)
STRAIGHT

(b)
CHANGE IN DIRECTION

FIG. 405.7
RAMP LANDINGS

FIG. 405.9.1
EXTENDED FLOOR OR GROUND SURFACE EDGE PROTECTION

FIG. 405.9.2
CURB OR BARRIER EDGE PROTECTION

406 CURB RAMPS

FIG. 406.2
COUNTER SLOPE OF SURFACES ADJACENT TO CURB RAMPS

FIG. 406.3
SIDES OF CURB RAMPS

FIG. 406.4
LANDINGS AT THE TOP OF CURB RAMPS

FIG. 406.6
DIAGONAL OR CORNER TYPE CURB RAMPS

(a)
CUT THROUGH AT ISLAND

(b)
CURB RAMP AT ISLAND

407 ELEVATORS

Figure 407.2.2.2
Visible Hall Signals

Figure 407.2.3.1
Floor Designations on Jambs of Elevator Hoistway Entrances

Figure 407.2.3.2
Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

Figure 407.4.1
Elevator Car and Door Sizes

(a)
centered door

Figure 407.4.1
Elevator Car and Door Sizes

(b)
side (off-centered) door

Figure 407.4.1 (Exception)
Existing Elevator Car Configuration

(e)
Exception
existing elevator car configuration

502 PARKING SPACES

(a)
CAR

(b)
VAN

FIG. 502.3
PARKING SPACE ACCESS AISLE

505 HANDRAILS

(a)
STAIRS

(b)
RAMPS

(c)
WALKING SURFACES

FIG. 505.5
HANDRAIL CLEARANCE

FIG. 505.4
HANDRAIL HEIGHT

FIG. 505.10.1
TOP AND BOTTOM HANDRAIL EXTENSION AT RAMP

NOTE: X= TREAD DEPTH

FIG. 505.10.3
BOTTOM HANDRAIL EXTENSION AT STAIR

FIG. 505.10.2
TOP HANDRAIL EXTENSION AT STAIR

602 DRINKING FOUNTAINS

FIG. 602.5
DRINKING FOUNTAIN SPOUT LOCATION

604 WATER CLOSETS AND TOILET COMP.

FIG. 604.3.1
SIZE OF CLEARANCE AT WATER CLOSET

(b)
AMBULATORY ACCESSIBLE WATER CLOSETS

FIG. 604.3.2 (EXCEPTION)
OVERLAP OF WATER CLOSET CLEARANCE IN RESIDENTIAL DWELLING

FIG. 604.5.1
SIDE WALL GRAB BAR AT WATER CLOSET

FIG. 604.5.2
REAR WALL GRAB BAR AT WATER CLOSETS

FIG. 604.7
DISPENSER OUTLET LOCATION

FIG. 604.8.1.2
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

FIG. 604.8.2
AMBULATORY ACCESSIBLE TOILET COMPARTMENT

(C)
PLAN

(a)
ELEVATION ADULT

(b)
ELEVATION CHILDREN

FIG. 604.8.1.4
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

605 URINALS

(A)
WALL HUNG TYPE

(B)
STALL TYPE

FIG. 605.2
HEIGHT AND DEPTH OF URINALS

609 GRAB BARS

(a)

(b)

FIG. 609.2.2
GRAB BAR NON-CIRCULAR CROSS SECTION

(a)
PROJECTING OBJECTS

FIG. 609.3
SPACING OF GRAB BARS

SCALE 1/4" = 1'-0"

703 SIGNS

TACTILE CHARACTERS SHALL BE LOCATED 48" MIN. AFF, MEASURED FROM BASELINE OF LOWEST TACTILE CHARACTER AND 60" MAX. AFF MEASURED FROM BASELINE OF HIGHEST TACTILE CHARACTER

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ADA - TAS 2012 REQUIREMENTS

THESE TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (BAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS AND THAT THE BAE ATTACHES NO VALIDITY TO ANY PLANS NOT STAMPED WITH AN ARCHITECT'S SEAL. 22 TAC 1.22(a)(1)

JOB NO.	202147
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SHEET NUMBER

G002

1 G101 **LIFE SAFETY PLAN**
SCALE: 1/8" = 1'-0"

PROJECT GENERAL NOTES

1. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
2. DO NOT SCALE THE DRAWING. IF DIMENSIONS ARE IN QUESTION. OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING.
3. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF FINISH OF INTERIOR WALLS, TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR MASONRY WALLS, UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS AND TO FINISH FACE OF NEW STUD WALLS, UNLESS OTHERWISE INDICATED.
4. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OF OF/CI EQUIPMENT. MINIMUM REQUIRED OPENINGS AND ACCESSIBLE ROUTES TO THE INSTALLATION AREA SHALL BE COORDINATED WITH THE SUPPLIER.
5. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE SLAB UNLESS OTHERWISE NOTED.
6. COORDINATE EXACT SIZE AND PLACEMENT OF EQUIPMENT BASE AND HOUSEKEEPING PADS WITH EQUIPMENT TO BE PROVIDED.
7. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE OFFSET AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD ON BOTH SIDES.
8. LEVEL FLOORS SO THAT THEY DO NOT EXCEED A ¼" VARIANCE IN A 10'-0" RADIUS.
9. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS AND POWERHOUSE. COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
10. WHEN PROVIDED, ALL EXTERIOR STEEL HANDRAILS, GUARDRAILS, AND BOLLARDS SHALL BE GALVANIZED AND PAINTED UNLESS OTHERWISE NOTED.
11. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
12. APPROVE FLOOR OUTLET LOCATIONS WITH ARCHITECT AND BUILDING MANAGEMENT PRIOR TO CORE DRILLING.
13. OPENINGS IN A RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEMS OR PROTECTED WITH A FIRE RATED CHASE.
14. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN CEILINGS SHALL BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
15. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
16. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
17. SEALANTS EXPOSED TO VIEW SHALL BE CUSTOM COLOR AS SELECTED BY THE ARCHITECT.
18. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.
19. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, AND CABINET WORK WITH ADJACENT MATERIALS. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
20. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES INSTALLED WITHIN 2' OF A URINAL, WATER CLOSET, SINK OR LAVATORY SHALL BE MOISTURE SEALED.
21. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH, I.E. CEILING SYSTEM WIRE HANGERS FROM JOISTS AND/ OR BEAMS. IF NO JOIST OR BEAM, PROVIDE A STEEL STRIP.

LEVEL 1:	AREA	NET	GROSS	NUMBER OF OCCUPANTS
BUSINESS AREA	7,155 SF	NO	YES	81
ASSEMBLY	920 SF	NO	YES	62
STORAGE, S-1	15,697 SF	NO	YES	53
			TOTAL:	196

NUMBER OF EXITS: 7

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LIFE SAFETY PLANS

THIS IS TO GIVE NOTICE AND VERIFIEY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS REGULATES FIRMS OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE AND THE PLANS AND OTHER THINGS BY THIS FIRM MAY NOT BE PREPARED BY ARCHITECTURAL EXAMINERS OF TEXAS.
TBAE REGISTRATION # F-2750

JOB NO.	202147
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/12/2022
DRN. BY:	AR
CKD. BY:	AR

SHEET NUMBER
G101

1 PARTITION SECTION
G102 SCALE: 1 1/2" = 1'-0"

2 PARTITION SECTION
G102 SCALE: 1 1/2" = 1'-0"

3 ACOUSTICAL PARTITION @ FLOOR
G102 SCALE: 1 1/2" = 1'-0"

4 ACOUSTICAL WALL SECTION
G102 SCALE: 1 1/2" = 1'-0"

5 ACOUSTICAL PARTITION SECTION
G102 SCALE: 1 1/2" = 1'-0"

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

NOTE:
1. REFER TO INTERIOR PARTITION DETAILS FOR PARTIAL HEIGHT PARTITION DETAIL.
2. REFER TO INTERIOR PARTITION DETAILS FOR FLOOR DETAIL.
3. STC IS PREDICTED USING TEST REPORT PROVIDED BY CLARKDIETRICH.
4. STC IS APPROXIMATED BY REFERENCE BASED ON 0.033" THICK (20 GA) STUDS @ 24" O.C., STC RATING NOT APPLICABLE WHERE DIFFERENT SPACING IS SPECIFIED
5. WHERE THE PARTITION TAG INCLUDES THE SUFFIX " L ", PROVIDE LEAD SHIELDING IN PARTITION TO HEIGHT OF 7'-0", AS SPECIFIED.
6. PROVIDE 5/8" THK. CEMENT BOARD IN LIEU OF GYP. BOARD AS SUBSTRATE FOR AREAS FINISHED WITH WALL TILE.
7. WHERE AN * NEXT TO THE PARTITION TAG, GYP BD ON THE SIDE OF TAG IS TO BE FLOATED TO DECKING ABOVE. IF INSULATION IS IN WALL ASSEMBLY, IT IS TO BE TAKEN TO THE HEIGHT OF 6" ABOVE CEILING. REFER TO DETAIL 6/G102

	D1_	STC	D2_	STC	D3_	STC	D4_	STC	D5_	STC	D6_	STC	D7_	STC	D8_	STC	D9_	STC	HEAD	DETAIL NO
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	D11	27	D21	29	D31	27	D41	30	D51	27	D61	30	D71	27	D81	31	D91	26		3,4/A611 SIM
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	D12		D22		D32		D42		D52		D62		D72		D82		D92			2,4/A611 SIM
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	D13		D23		D33		D43		D53		D63		D73		D83		D93			4/A611 SIM
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"		1 1/2"			
BASIC PARTITION THICKNESS	3 1/8"		3 1/8"		4 1/4"		4 1/4"		4 5/8"		4 5/8"		6 5/8"		6 5/8"		2 1/8"			
ACOUSTICAL INSULATION THICKNESS	-		2"		-		3"		-		3"		-		5 1/2"		1 5/8"			
ACOUSTICAL TEST NUMBER	NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1			

NOTE:
1. STC RATINGS ARE PREDICTED USING THE "INSUL" COMPUTER PROGRAM.
2. STC RATINGS ARE BASED ON 0.018" THICK (25 GA) STUDS ONLY; OTHERWISE, STC RATING NOT REQUIRED.
3. WHERE THE PARTITION TAG INCLUDES THE SUFFIX " L ", PROVIDE LEAD SHIELDING IN PARTITION TO HEIGHT OF 7'-0", AS SPECIFIED.
4. PROVIDE 5/8" THK. CEMENT BOARD IN LIEU OF GYP. BOARD AS SUBSTRATE FOR AREAS FINISHED WITH WALL TILE.

PARTITION WITH INSULATION

PARTITION WITHOUT INSULATION

PARTITION INTERSECTION

CONTROL JOINT

WALL PRIORITY LEGEND	
TWO HOUR RATED FIRE AND SMOKE PARTITION	PRIORITY 1 HIGHEST
TWO HOUR RATED SHAFT WALL	PRIORITY 2
TWO HOUR RATED PARTITION	PRIORITY 3
ONE HOUR SMOKE PARTITION	PRIORITY 4
ONE HOUR RATED PARTITION	PRIORITY 5
PARTITION TO DECK	PRIORITY 6 LOWEST
PARTITION TO 4" MIN ABOVE CEILING	

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

6 PARTITION SECTION - GYP. ONE SIDE TO DECK
G102 SCALE: 1 1/2" = 1'-0"

7 ACOUSTICAL PARTITION PLAN DETAILS
G102 SCALE: 1 1/2" = 1'-0"

8 PARTITION PRIORITY LEGEND
G102 SCALE: 1 1/2" = 1'-0"

PARTITION TYPES GENERAL NOTES

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

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

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

FIRE RATED PARTITIONS

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

REGISTERED ARCHITECT STATE OF TEXAS 21675 01/12/2022

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INTERIOR PARTITION TYPE SCHEDULES

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS HAS NOT REVIEWED OR APPROVED THIS DRAWING. THE PROFESSIONAL PRACTICE OF ARCHITECTURE IS THE SUBJECT OF TEXAS CIVIL STATUTES, ARTICLE 249a, AND THE RULES OF THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, TITLE 22, PART XXV, CHAPTER 1, SUBCHAPTER A, RULE 1.122 ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

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SHEET NUMBER
G102

1 DEMOLITION PLAN
D110 SCALE: 1/8" = 1'-0"

NOTES:
1. CONTRACTOR SHALL PROVIDE AN ALLOWANCE TO SEAL ALL NEW CONCRETE WITH A SEALING COMPOUND THAT WILL ALLOW THE FLOORING TO BOND WITH THE CONCRETE SURFACES. SEE STRUCTURAL GENERAL NOTES.
2. REFER TO ARCH'L AND MEP DRAWINGS FOR EXACT LOCATION OF NEW PLUMBING LINE.
3. FOR BIDDING PURPOSED ASSUME A 5 1/2" THICK SLAB.
4. IF REINFORCING IS CUT PROVIDE #4 X 2'-0" DWLS @ 24" O.C. STAGGERED EACH SIDE DRILL AND EPOXY DWLS A MINIMUMOF 5 1/2" INTO CONCRETE.

2 TYP. NEW TRENCH DETAIL @ EXISTING SLAB-ON-FILL CONSTRUCTION
D110 SCALE: 3/4" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

1. 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 CALLED FOR.
2. 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.
3. 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.
4. 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.
5. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE RATED WALL ASSEMBLIES SHOWN ON PLANS AND THOSE FOUND IN THE FIELD.
6. ALL EQUIPMENT THAT WILL NEED TO BE SALVAGED WILL BE REMOVED BY OWNER PRIOR TO DEMOLITION.
7. CONTRACTOR SHALL HAUL OFF ALL MATERIALS UPON COMPLETION OF DEMOLITION.
8. FIELD VERIFY MEP FIXTURES AND EQUIPMENT LOCATIONS.

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

NO.	DESCRIPTION
1	REMOVE EXISTING INTERIOR GYPSUM BOARD AND METAL STUD PARTITION COMPLETE.
2	REMOVE COLUMN COVERS.
3	REMOVE EXISTING WALL BASE AND ASSOCIATED TRIM. FLOAT AND REPAIR EXISTING FLOOR TO PREP FOR NEW FLOORING.
4	REMOVE EXISTING PLUMBING AND CAP PER CODE. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.
5	RELOCATE WATER PIPING TO ALIGN WITH TOP OF GYPSUM BOARD OR HIGHER. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.
6	REMOVE EXISTING FAUCETS AND REPLACE WITH NEW IN SAME LOCATION.
7	REMOVE EXISTING TOILET ACCESSORIES INCLUDING BUT NOT LIMITED TO MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILET TISSUE DISPENSERS, CHANGING TABLES U.N.O. PATCH, REPAIR, AND MATCH EXISTING WALL FINISH WHERE REQUIRED.
8	EXISTING TOILET PARTITIONS TO REMAIN EXCEPT SINGLE PANEL WITH GRAFFITI. CONTRACTOR SHALL REPLACE SINGLE PANEL TO MATCH ADJACENT EXISTING PANELS.
9	EXISTING TO REMAIN.
10	REMOVE EXISTING DRINKING FOUNTAINS TO ALLOW FOR ELECTRICAL OUTLET RELOCATION AND NEW WALL FINISH. REINSTALL IN EXISTING LOCATIONS.
12	REMOVE EXISTING WALL-MOUNTED BABY CHANGING TABLE. PATCH WALL, FINISH AS SCHEDULED.
13	EXISTING BABY CHANGING TABLE SHALL REMAIN.
14	EXISTING FIRE EXTINGUISHER AND BRACKET TO BE REMOVED AND RELOCATED. SEE A110 FOR DETAILS.
15	EXISTING GRAB BARS SHALL REMAIN.
16	EXISTING FIRE EXTINGUISHER AND BRACKET TO REMAIN AND BE PROTECTED DURING DEMOLITION, CONTRACTOR TO ENSURE EXISTING EXTINGUISHER IN WORKING CONDITION AND MEETS TESTING REQUIREMENTS.
17	PORTION OF FOUNDATION SHOWN IS TO BE SAW CUT AND SECTIONED IN ORDER TO ALLOW CONNECTION OF NEW PLUMBING TO EXISTING SEWER LINE, REFER TO NEW TRENCH DETAIL.
18	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.

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DEMOLITION PLAN

THIS SHEETS OF CLK NOTICE AND SHALL VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS CLEARED THIS DOCUMENT TO BE THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000 OR WWW.TBAE.STATE.TX.US TO VERIFY THAT THE ARCHITECT IS REGISTERED TO PRACTICE ARCHITECTURE IN THE STATE OF TEXAS. ©2020 CLK ARCHITECTS AND ASSOCIATES

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SHEET NUMBER
D110

1 D120 **DEMOLITION RCP**
SCALE: 1/8" = 1'-0"

DEMOLITION RCP GENERAL NOTES

1. 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 CALLED FOR.
2. 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.
3. 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.
4. 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.
5. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE RATED WALL ASSEMBLIES SHOWN ON PLANS AND THOSE FOUND IN THE FIELD.
6. ALL EQUIPMENT THAT WILL NEED TO BE SALVAGED WILL BE REMOVED BY OWNER PRIOR TO DEMOLITION.
7. CONTRACTOR SHALL HAUL OFF ALL MATERIALS UPON COMPLETION OF DEMOLITION.
8. FIELD VERIFY MEP FIXTURES AND EQUIPMENT LOCATIONS.

DEMOLITION RCP LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO REMOVE
- EXISTING SUSPENDED ACOUSTIC CEILING TO REMOVE
- EXISTING 2'X4' LIGHT FIXTURE TO REMOVE
- EXISTING 2'X4' SUSPENDED LIGHT FIXTURE TO REMOVE

DEMOLITION RCP KEY NOTES

NO.	DESCRIPTION
1	REMOVE EXISTING LIGHT FIXTURES.
2	REMOVE EXISTING CEILING TILES TO BE REPLACED IN SAME LOCATION. EXISTING CEILING GRID AND LIGHT FIXTURES TO REMAIN. CONTRACTOR SHALL REPAIR GRID SUPPORTS AS NEEDED.
3	EXISTING LIGHT FIXTURES TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR SWITCHING MODIFICATIONS.
4	EXISTING TO REMAIN.
5	EXISTING MECHANICAL UNIT.

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DEMOLITION REFLECTED CEILING PLAN

THIS IS TRACING MEDIA AND VERIFIES THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS FURNISHED THIS WORK OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9040 IF YOU HAVE QUESTIONS REGARDING THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN TEXAS. ©2022 ANDREA MARTINEZ RODRIGUEZ

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SHEET NUMBER
D120

1 A110 **REFERENCE FLOOR PLAN**
SCALE: 1/8" = 1'-0"

RENOVATION PLAN GENERAL NOTES

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

PARTITION TYPES LEGEND

GRAPHIC	TAG	DESCRIPTION
		EXISTING PARTITION TO REMAIN
	##0	2 HOUR FIRE RATED PARTITION
	##0	1 HOUR FIRE RATED PARTITION
	##0S	SMOKE BARRIER (20 MIN FIRE RATED)
	##1S	SMOKE PARTITION (NON-RATED)
	##1	ACOUSTIC PARTITION (STC RATED AS SCHEDULED)
	##2	PARTITION W/ GYP TO 6 IN. ABOVE CEILING
	##3	PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING
	##4	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

NO.	DESCRIPTION
1	PARTIAL HEIGHT WALL SHALL BE 7'-0" HIGH.
2	PROVIDE AND INSTALL ROOM SIGNAGE. SIGNAGE SHALL BE MOUNTED IN COMPLIANCE WITH TAS REQUIREMENTS. REFER TO SHEET A810 FOR SIGNAGE TYPES AND QUANTITY.
3	PROVIDE 8" DIA. STAINLESS STEEL TRASH RING.
4	MODIFY EXISTING WALL TO EXTEND TO STRUCTURE FOR SECURITY. SEE DETAIL 10/A310 FOR ADD ALTERNATE 1.
5	PAINT EXISTING TOP OF STUDS AND CONDUIT BLACK TO BLEND IN WITH EXISTING BLACK WALL.
6	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.
7	SEE SHEET A410 FOR TOILET ACCESSORY SCHEDULE AND MOUNTING LOCATIONS.
8	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 POWER FOR FOUR REFRIGERATORS.
10	PROVIDE POWER FOR THREE COUNTERTOP MICROWAVES.
11	PROVIDE 3/4" FIRE RETARDANT TREATED PLYWOOD TO 8'-0" HIGH. PAINT AS SCHEDULED.
12	PROVIDE 1" ALUMINUM BLIND.
13	PROVIDE MP-5 FIRE EXTINGUISHER FOR EXISTING WALL BRACKET.
14	PROVIDE RECESSED FIRE EXTINGUISHER CABINET AS SPECIFIED. CABINET SHALL BE INSTALLED SO THAT FIRE EXTINGUISHER HANDLE IS 42" AFF.
15	PROVIDE WALL MOUNTED BRACKET FOR EXISTING FIRE EXTINGUISHER. FIRE EXTINGUISHER SHALL BE INSTALLED SO THAT THE FIRE EXTINGUISHER HANDLE IS 42" AFF.
16	SEE ALTERNATE 4 FOR INSTALLATION OF CONDUIT AND FLOOR BOX FOR POWER AND DATA. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
17	EXISTING TOILET PARTITION FIXED PANEL SHALL BE REPLACED WITH PLAM PANEL TO MATCH ADJACENT.
18	PROVIDE ACCESS CONTROL AS SPECIFIED.
19	SEE ELECTRICAL DRAWINGS FOR DETAILS OF DROP INTENDED FOR BADGE-IN, SECURITY, OR FUTURE USE.
20	DISABLE EXISTING THUMB TURN LOCK.
21	PAINT INTERIOR AND EXTERIOR OF EXISTING STOREFRONT FRAME COMPLETE. THOROUGHLY CLEAN PAINT AND ALL OTHER MATTER FROM TOP PANELS OF EXISTING GLASS. PAINT EXTERIOR OF BOTTOM PANEL TO MATCH STOREFRONT FINISH.
22	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.
23	PROVIDE HANDS FREE DOOR RELEASE MECHANISM AS SPECIFIED.

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Corpus Christi, TX
78401-0750

REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET, SUITE 4985
CORPUS CHRISTI, TX 78415

REFERENCE FLOOR PLAN

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THIS STATE PURSUANT TO THE TBAE ACT AND RULES. THE TBAE ENFORCES THE TEXAS DISCIPLINARY RULES OF PROFESSIONAL CONDUCT FOUND IN 22 TAC CHAPTER 1 SUBCHAPTER A.

JOB NO.	202147
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/12/2022
DRN. BY:	KD
CKD. BY:	AR

SHEET NUMBER
A110

1 DIMENSION PLAN
A111 SCALE: 1/8" = 1'-0"

4 ENLARGED DIMENSION PLAN
A111 SCALE: 1/4" = 1'-0"

3 ENLARGED DIMENSION PLAN
A111 SCALE: 1/4" = 1'-0"

DIMENSION PLAN GENERAL NOTES

1. PARTITION TYPES ARE SCHEDULED IN THE A6 SERIES. RE: G10 SERIES OF "CODE COMPLIANCE PLANS" FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS AND SMOKE COMPARTMENTS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS.
2. CONTRACTOR SHALL REVIEW RATED WALLS ADJACENT TO PROJECT AREA. ANY PENETRATIONS THROUGH WALLS SHALL BE SEALED TO MAINTAIN INTEGRITY OF THE RATED/SMOKE WALL.
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 TO FINISH FACE OF NEW STUD WALLS, UNLESS OTHERWISE INDICATED.
4. 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 ALIGNED. STUDS SHALL BE OFFSET AND ADDITIONAL LAYERS OF GYPSUM BOARD SHALL BE PROVIDED AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.
5. ALL CORRIDORS AND PASSAGEWAYS SHALL BE 5'-0" MINIMUM CLEAR WIDTH.
6. SEE A410, PLUMBING LAYOUTS FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
7. REFER TO A310 FOR MISCELLANEOUS DETAILS.
8. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR (EXCLUDING PATIENT BEDROOMS), UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
9. PROVIDE A 1'-4" WIDE CHASE BEHIND SINGLE SIDED TOILETS, AND A 1'-8" WIDE CHASE BETWEEN BACK TO BACK TOILETS, FOR WALL HUNG FIXTURES. FOR FLOOR MOUNTED FIXTURES PROVIDE A 6" STUD, MINIMUM.
10. ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
11. REFER TO SHEET A610, "INTERIOR FINISH PLAN" FOR WALL PROTECTION LOCATIONS.
12. FURNITURE AND EQUIPMENT SHOWN IN DIMENSION AND REFERENCE PLANS FOR REFERENCE ONLY. REFER TO EQUIPMENT SCHEDULE ON SHEET A710 FOR DESIGNATION OF CONTRACTOR AND OWNER PROVIDED AND/OR INSTALLED ITEMS.
13. ALL ELECTRICAL AND DATA OUTLET BOXES SHALL BE INSTALLED IN A STAGGERED CONFIGURATION WITH ONE STUD MIN. SEPARATING THE BOXES.
14. REFER TO FIRE PROTECTION SCHEDULE ON SHEET G101 FOR THE FIRE RESISTANCE REQUIREMENTS OF EACH BUILDING ELEMENT, INCLUDING: PRIMARY STRUCTURAL COMPONENTS, EXTERIOR WALL ASSEMBLIES, FLOOR AND ROOF CONSTRUCTION, AND SHAFTS.
15. SEE LIFE SAFETY PLAN ON SHEET G101 FOR FIRE EXTINGUISHER LOCATIONS.
16. SEE SPECIFICATIONS FOR SIGNAGE ALLOWANCE. EACH ROOM SHALL RECEIVE A ROOM SIGN IN COMPLIANCE WITH TAS REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INSTALL.
17. REFER TO SHEET G101 FOR ADDITIONAL GENERAL NOTES.

PARTITION TYPES LEGEND

GRAPHIC	TAG	DESCRIPTION
		EXISTING PARTITION TO REMAIN
	##0	2 HOUR FIRE RATED PARTITION
	##0	1 HOUR FIRE RATED PARTITION
	##0S	SMOKE BARRIER (20 MIN FIRE RATED)
	##1S	SMOKE PARTITION (NON-RATED)
	##1	ACOUSTIC PARTITION (STC RATED AS SCHEDULED)
	##2	PARTITION W/ GYP TO 6 IN. ABOVE CEILING
	##3	PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING
	##4	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.

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78401-0750

01/12/2022

REVISIONS		
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WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET, SUITE 4985
CORPUS CHRISTI, TX 78415

DIMENSION PLAN

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS AS CONTAINED IN THE TBAE RULES AND REGULATIONS. ANY ARCHITECTURAL WORK PERFORMED IN THE STATE OF TEXAS MUST COMPLY WITH THE TBAE RULES AND REGULATIONS.

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PHASE:	CONSTRUCTION DOCUMENTS
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CKD. BY:	AR

SHEET NUMBER
A111

1 A120 **REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

3 A120 **ENLARGED DIMENSION RCP**
SCALE: 1/4" = 1'-0"

RENOVATION RCP GENERAL NOTES

1. 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 SCHEDULED.
2. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL MATCH ADJACENT FINISHES FOR ALL NEW WALLS AND REPAIRS.
3. FIELD VERIFY DIMENSIONS BEFORE CABINETS ARE FABRICATED. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO FABRICATION.
4. WALL TYPES NOT DESIGNATED SHALL MATCH EXISTING, ADJACENT WALL TYPE AND FINISHES. CONTRACTOR TO VERIFY WALL TYPES AND COORDINATE WITH ARCHITECT ANY DISCREPENCIES.
5. HEIGHT OF CABINETS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP OF THE SINK RIM.
6. CONTRACTOR SHALL PROVIDE FIRE TREATED IN-WALL BLOCKING AT NEW MILLWORK.
7. ALL EXPOSED STRUCTURE, CONDUIT, AND MECHNICAL EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING BLACK FINISH.

PARTITION TYPES LEGEND

GRAPHIC	TAG	DESCRIPTION
		EXISTING PARTITION TO REMAIN
	##0	2 HOUR FIRE RATED PARTITION
	##0	1 HOUR FIRE RATED PARTITION
	##0S	SMOKE BARRIER (20 MIN FIRE RATED)
	##1S	SMOKE PARTITION (NON-RATED)
	##1	ACOUSTIC PARTITION (STC RATED AS SCHEDULED)
	##2	PARTITION W/ GYP TO 6 IN. ABOVE CEILING
	##3	PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING
	##4	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 RCP LEGEND

	ACT-1
	GBC-1
Type Name 1' - 0"	CEILING TAG WITH HEIGHT
	2'X4' FIXTURE
	2'X2' FIXTURE
	1'X4' FIXTURE
	SUSPENDED LINEAR FIXTURE
	SUSPENDED 8" CYLINDER PENDANT
	RECESSED DOWN LIGHT 6"

RENOVATION RCP KEY NOTES

NO.	DESCRIPTION
1	RECESSED FLUSH LED STRIP LIGHTING. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2	OPEN TO STRUCTURE ABOVE.
3	UNLIT BAFFLE.
4	EXISTING CEILING GRID TO REMAIN. REPLACE CEILING TILES AS SCHEDULED. SEE ALTERNATE 2 FOR MODIFICATIONS TO EXISTING GRID IN THE WOMEN'S RESTROOM.
5	GYPSUM BOARD FURRDOWN. SEE 7/A310 FOR DETAIL.
6	EXTRUDED ALUMINUM TRIM. SEE 6/A310 FOR DETAIL.
7	PROVIDE DIMMER SWITCH FOR CAN LIGHTS.
8	SEE ELECTRICAL DRAWINGS FOR POWER POLE LOCATIONS.
9	EXISTING TO REMAIN.
10	EXISTING LIGHTS TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR SWITCHING MODIFCATIONS.
11	EXISTING MECHANICAL UNIT TO REMAIN.
12	ADD 2" SOUND BATT INSULATION ABOVE CEILING TILES.
13	SEE ELECTRICAL DRAWINGS FOR ALTERNATE LIGHTING FIXTURES AS DESCRIBED IN ALTERNATE 1.

REGISTERED ARCHITECT
ANDREA MARTINEZ RODRIGUEZ
21675
STATE OF TEXAS
01/12/2022

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REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET, SUITE 4985
CORPUS CHRISTI, TX 78415

REFLECTED CEILING PLAN

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (BAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN TEXAS AND THAT ANY ARCHITECTURAL WORK PERFORMED IN TEXAS MUST EITHER BE EXEMPT OR PERFORMED BY ARCHITECTS LICENSED BY BAE.
TBAE ARCHITECT'S NOTICE 8/17/2017

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PHASE:	CONSTRUCTION DOCUMENTS
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DRN. BY:	KD
CKD. BY:	AR

SHEET NUMBER
A120

1 A121 **REFLECTED CEILING PLAN - ALTERNATE 1**
SCALE: 1/8" = 1'-0"

3 A121 **ENLARGED DIMENSION RCP**
SCALE: 1/4" = 1'-0"

RENOVATION RCP GENERAL NOTES

1. 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 SCHEDULED.
2. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL MATCH ADJACENT FINISHES FOR ALL NEW WALLS AND REPAIRS.
3. FIELD VERIFY DIMENSIONS BEFORE CABINETS ARE FABRICATED. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO FABRICATION.
4. WALL TYPES NOT DESIGNATED SHALL MATCH EXISTING, ADJACENT WALL TYPE AND FINISHES. CONTRACTOR TO VERIFY WALL TYPES AND COORDINATE WITH ARCHITECT ANY DISCREPENCIES.
5. HEIGHT OF CABINETS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP OF THE SINK RIM.
6. CONTRACTOR SHALL PROVIDE FIRE TREATED IN-WALL BLOCKING AT NEW MILLWORK.
7. ALL EXPOSED STRUCTURE, CONDUIT, AND MECHNICAL EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING BLACK FINISH.

PARTITION TYPES LEGEND

GRAPHIC	TAG	DESCRIPTION
		EXISTING PARTITION TO REMAIN
	##0	2 HOUR FIRE RATED PARTITION
	##0	1 HOUR FIRE RATED PARTITION
	##0S	SMOKE BARRIER (20 MIN FIRE RATED)
	##1S	SMOKE PARTITION (NON-RATED)
	##1	ACOUSTIC PARTITION (STC RATED AS SCHEDULED)
	##2	PARTITION W/ GYP TO 6 IN. ABOVE CEILING
	##3	PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING
	##4	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.

TYPICAL DOOR LOCATIONS U.N.O.

RENOVATION RCP LEGEND

	ACT-1
	GBC-1
Type Name 1' - 0"	CEILING TAG WITH HEIGHT
	2'X4' FIXTURE
	2'X2' FIXTURE
	1'X4' FIXTURE
	SUSPENDED LINEAR FIXTURE
	SUSPENDED 8" CYLINDER PENDANT
	RECESSED DOWN LIGHT 6"

RENOVATION RCP KEY NOTES

NO.	DESCRIPTION
1	RECESSED FLUSH LED STRIP LIGHTING. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2	OPEN TO STRUCTURE ABOVE.
3	UNLIT BAFFLE.
4	EXISTING CEILING GRID TO REMAIN. REPLACE CEILING TILES AS SCHEDULED. SEE ALTERNATE 2 FOR MODIFICATIONS TO EXISTING GRID IN THE WOMEN'S RESTROOM.
5	GYPSUM BOARD FURRDOWN. SEE 7/A310 FOR DETAIL.
6	EXTRUDED ALUMINUM TRIM. SEE 6/A310 FOR DETAIL.
7	PROVIDE DIMMER SWITCH FOR CAN LIGHTS.
8	SEE ELECTRICAL DRAWINGS FOR POWER POLE LOCATIONS.
9	EXISTING TO REMAIN.
10	EXISTING LIGHTS TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR SWITCHING MODIFCATIONS.
11	EXISTING MECHANICAL UNIT TO REMAIN.
12	ADD 2" SOUND BATT INSULATION ABOVE CEILING TILES.
13	SEE ELECTRICAL DRAWINGS FOR ALTERNATE LIGHTING FIXTURES AS DESCRIBED IN ALTERNATE 1.

REGISTERED ARCHITECT ARIEL MARTINEZ RODRIGUEZ 21615 STATE OF TEXAS
01/12/2022

clk architects & associates
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78401-0750

REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET, SUITE 4985
CORPUS CHRISTI, TX 78415

REFLECTED CEILING PLAN - ALTERNATE 1

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN TEXAS AND THAT TBAE CONTROLS THE USE OF THE TERMS "ARCHITECT" AND "ARCHITECTURE" AS DEFINED IN THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS RULES AND REGULATIONS.
TEXAS ARCHITECT LICENSE #21615

JOB NO.	202147
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/12/2022
DRN. BY:	KD
CKD. BY:	AR

SHEET NUMBER
A121

1 A310 **PLAN DETAIL - TYP. COLUMN COVER @ EXISTING COLUMN**
SCALE: 1 1/2" = 1'-0"

2 A310 **PLAN DETAIL - PARTIAL HEIGHT WALL**
SCALE: 1 1/2" = 1'-0"

3 A310 **PLAN DETAIL - TYP. WALL END @ EXT. WALL**
SCALE: 1 1/2" = 1'-0"

4 A310 **PLAN DETAIL - TYP. WALL END @ COLUMN**
SCALE: 1 1/2" = 1'-0"

5 A310 **PLAN DETAIL - TYP. COLUMN COVER ABOVE CEILING**
SCALE: 1 1/2" = 1'-0"

6 A310 **SECTION DETAIL - TRIM EDGE @ ACCOUSTICAL PANELS**
SCALE: 3" = 1'-0"

7 A310 **SECTION DETAIL - FURR. DOWN & TRIM EDGE @ GYP. CEILING**
SCALE: 3" = 1'-0"

8 A310 **SECTION DETAIL - CONFERENCE ROOM CEILING**
SCALE: 3" = 1'-0"

9 A310 **SECTION DETAIL - CEILING HEIGHT CHANGES @ RESTROOMS**
SCALE: 3" = 1'-0"

10 A310 **SECTION DETAIL - WALL EXTENSTION @ BATHROOM TO DECKING**
SCALE: 1 1/2" = 1'-0"

ALTERNATE 2

REGISTERED ARCHITECT ANDREA MARTINEZ RODRIGUEZ 21475 STATE OF TEXAS
01/12/2022

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Corpus Christi, TX
78401-0750

REVISIONS		
MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET, SUITE 4985
CORPUS CHRISTI, TX 78415

DETAILS

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS STRICTLY ENGAGES HERE DRAWS FOR THE PROFESSIONAL PRACTICE OF ARCHITECTURE WITHIN THE STATE OF TEXAS AND CONTRACT THE BOARD'S DISCIPLINARY AUTHORITY TO THE PLANS DRAWN BY ARCHITECTS LICENSED BY THE BOARD. 22.301 ARCHITECTS, 22.302 ENGINEERS

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SHEET NUMBER
A310

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

2 EXISTING MENS - NORTH ELEV
A410 SCALE: 3/8" = 1'-0"

3 EXISTING WOMENS - SOUTH ELEV
A410 SCALE: 3/8" = 1'-0"

4 DRINKING FOUNTAINS - WEST ELEV
A410 SCALE: 3/8" = 1'-0"

TOILET ACCESSORY MASTER SCHEDULE

TAG	EQUIPMENT TYPE	COMMENTS	OWNER PROV.	OWNER INST.	CONTRACTOR PROV.	CONTRACTOR INST.	QTY.
TA-10	SURFACE MOUNTED PAPER TOWEL DISPENSER	GEORGIA-PACIFIC, 3EB49, COLOR: BLACK	No	No	Yes	Yes	6
TA-11	SURFACE MOUNTED SOAP DISPENSER	PURELL, 444M76, COLOR: GRAY	No	No	Yes	Yes	6
TA-13	SURFACE MOUNTED TOILET TISSUE DISPENSER	GEORGIA-PACIFIC, 32GV93, COLOR: SMOKE	No	No	Yes	Yes	12
TA-14	FRAMED MIRROR, 24"X36"	BOBRICK B-165	No	No	Yes	Yes	6
TA-18	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	AMERICAN SPECIALTIES, 0473-A	No	No	Yes	Yes	9

TOILET ACCESSORY LEGEND

U.N.O., MOUNT TOILET ACCESSSORY DISPENSERS AND/OR RECEPTACLES ON WALLS SUCH THAT THE HIGHEST OPERATIONAL POINT 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., BLOCKING)

TYPICAL ACCESSIBLE TOILET

ACCESSIBLE TOILET SIDE ELEVATION

ACCESSIBLE TOILET FRONT ELEVATION - TALL TOILET FLUSH

INTERIOR ELEVATION GENERAL NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR POWER AND DATA LOCATIONS.
2. 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 INSTALLED.
4. ALL COUNTERTOPS SHALL BE SOLID SURFACE AS SCHEDULED.
5. HEIGHT OF COUNTERTOPS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP OF THE SINK RIM.

INTERIOR ELEVATION LEGEND

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

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

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

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

TLT RM INTERIOR ELEVATION KEY NOTES

NO.	DESCRIPTION
1	ACCESSIBLE DRINKING FOUNTAIN SPOUT HEIGHT SHALL BE 36" AFF AND STANDARD DRINKING FOUNTAIN SPOUT HEIGHT SHALL BE 40" AFF. ACCESSIBLE DRINKING FOUNTAIN SPOUT SHOULD BE LOCATED 15" MIN. FROM THE VERTICAL SUPPORT AND 5" MAX. FROM FRONT EDGE OF UNIT.
2	ELECTRICAL OUTLETS SHALL BE RELOCATED TO BE HIDDEN BEHIND DRINKING FOUNTAIN APRON. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
3	REPLACE EXISTING TOILET PARTITON PANEL WITH GRAFFITI MARKINGS TO MATCH EXISTING.

REGISTERED ARCHITECT — ANDREA MARTINEZ RODAS — 21615 — STATE OF TEXAS
01/12/2022

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TOILET RM - ENLARGED PLANS & INTERIOR ELEVATIONS

THIS'S TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) DOES ATTESTS OR ENDORSE THIS DOCUMENT OR THE PROFESSIONAL PRACTICE OF ARCHITECTURE BY THE UNSTATED PERSONS OR COMPANY THAT THE TBAE CAN ONLY ATTEST OR ENDORSE THE ARCHITECT OF RECORD AND THE ARCHITECTURAL FIRM WHO HAS SUBMITTED THE PLANS TO THE TBAE FOR REVIEW.
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SHEET NUMBER
A410

1 A411 **COFFEE 111**
SCALE: 3/8" = 1'-0"

2 A411 **COFFEE 111 - EAST ELEV**
SCALE: 3/8" = 1'-0"

3 A411 **LARGE CONFERENCE 114**
SCALE: 3/8" = 1'-0"

4 A411 **LARGE CONFERENCE 114 - NORTH ELEV**
SCALE: 3/8" = 1'-0"

5 A411 **STAFF BREAK 115**
SCALE: 3/8" = 1'-0"

6 A411 **STAFF BREAK 115 - NORTH ELEV**
SCALE: 3/8" = 1'-0"

7 A411 **STAFF BREAK 115 - EAST ELEV**
SCALE: 3/8" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR POWER AND DATA LOCATIONS.
2. 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 INSTALLED.
4. ALL COUNTERTOPS SHALL BE SOLID SURFACE AS SCHEDULED.
5. HEIGHT OF COUNTERTOPS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP OF THE SINK RIM.

INTERIOR ELEVATION LEGEND

EQ-X	EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.
FR-X	FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.
TA-X	TOILET ACCESSORY. REFER TO INTERIOR ELEVATIONS AND SCHEDULE.

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

INTERIOR ELEVATION KEY NOTES

NO.	DESCRIPTION
1	PROVIDE 8" DIA. STAINLESS STEEL TRASH RING.

REGISTERED ARCHITECT ARIEL RODRIGUEZ MARTINEZ 21615 STATE OF TEXAS
01/12/2022

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REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET, SUITE 4985
CORPUS CHRISTI, TX 78415

ENLARGED PLANS & INTERIOR ELEVATIONS

THIS'S TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) DAS ITS BRSOE TION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THIS STATE AND CONTRACT THE TBAE AT 1-800-CONTACT-TBAE (1-800-806-8223) OR WRITE TBAE AT 333 GUADALUPE, TOWER TWO, SUITE 2-350, AUSTIN, TX 78701-3942

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PHASE:	CONSTRUCTION DOCUMENTS
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SHEET NUMBER
A411

NOTE: REFER TO THIS TYPICAL DETAIL A1 FOR MATERIALS, DIMENSIONS, AND DETAIL ENLARGEMENTS OF TYPE "A" BASE CABINETS.

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 FINISH PLANS FOR COUNTERTOP MATERIAL

1 A420 TYP. DETAIL - EASED COUNTER EDGE
SCALE: 3" = 1'-0"

2 A420 TYP. DETAIL - TOE KICK
SCALE: 3" = 1'-0"

3 A420 TYP. DETAIL - FINISHED END PANEL
SCALE: 3" = 1'-0"

4 A420 TYP. DETAIL - COUNTERTOP CORNER
SCALE: 3" = 1'-0"

5 A420 TYP. DETAIL - INSIDE CORNER
SCALE: 3" = 1'-0"

D4 BASE CABINET
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"

G1 BASE CABINET TRASH CAN
SCALE: 1" = 1'-0"

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Corpus Christi, TX
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REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET, SUITE 4985
CORPUS CHRISTI, TX 78415

TYPICAL MILLWORK DETAILS

THIS IS TO GIVE NOTICE AND VERIFIED THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS LICENSE THIS OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THIS SALE OF TEXAS AND THAT THE TBAE CAN ONLY ENFORCE THE LAWS OF THE STATE OF TEXAS. THIS DOCUMENT IS ARCHITECTURAL DRAWING OF ARCHITECTURAL DESIGN.

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SHEET NUMBER
A420

DOOR SCHEDULE

	DOOR		PANEL				FRAME							FROM		TO		
NO.	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FINISH	TYPE	OVERALL DEPTH	MULLION	MATERIAL	FINISH	HWD SET	FIRE RATING	NO.	NAME	NO.	NAME	COMMENTS
101	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	01		101	BUSINESS SOLUTIONS	E123	SHELL SPACE	
102	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	02		101	BUSINESS SOLUTIONS	102	OFFICE	
103	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03		103	STORAGE	101	BUSINESS SOLUTIONS	
104	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03		104	STORAGE	107	COPY	
106	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	02		108	CHILDCARE	106	OFFICE	
110.1	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	01		110	CORRIDOR	E123	SHELL SPACE	
110.2	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	01		110	CORRIDOR	E123	SHELL SPACE	
112	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		110	CORRIDOR	112	HUDDLE	
113	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		110	CORRIDOR	113	HUDDLE	
114	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04		110	CORRIDOR	114	LARGE CONFERENCE	
115.1	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	05		115	STAFF BREAK	110	CORRIDOR	
115.2	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	05		110	CORRIDOR	115	STAFF BREAK	
116	3' - 0"	7' - 0"	1 3/4"	FS	PLAM	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	06		116	DATA/ELEC	E123	SHELL SPACE	
E1	3' - 0"	7' - 0"	1 3/4"	FS	ETR	PT-6	EXIST.	5 7/8"		HM - ETR	PT-5	ETR		110	CORRIDOR	E118	EXISTING WOMENS	PATCH ALL HOLES OR DAMAGE FROM PREVIOUS HARDWARE SELECTION AND PAINT TO MATCH PANEL FINISH AS SCHEDULED.
E2	3' - 0"	7' - 0"	1 3/4"	FS	ETR	PT-6	EXIST.	5 7/8"		HM - ETR	PT-5	ETR		110	CORRIDOR	E119	EXISTING MENS	PATCH ALL HOLES OR DAMAGE FROM PREVIOUS HARDWARE SELECTION AND PAINT TO MATCH PANEL FINISH AS SCHEDULED.
E3	3' - 0"	7' - 0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		HM - ETR	ETR	ETR		E117	EXISTING ELEC	E123	SHELL SPACE	
E4	3' - 0"	7' - 0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		HM - ETR	ETR	ETR		E121	EXISTING FIRE RISER	E123	SHELL SPACE	
E5	3' - 0"	7' - 0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		HM - ETR	ETR	ETR		E123	SHELL SPACE	E122	EXISTING MECHANICAL	
E6	7' - 11"	7' - 0"	1 3/4"	FS FS	ETR	ETR	EXIST.	9 5/8"	No	HM - ETR	ETR	ETR		E123	SHELL SPACE			
E7	3' - 0"	7' - 0"	1 3/4"	FS	ETR	ETR	EXIST.	8"		HM - ETR	ETR	ETR		E123	SHELL SPACE			
E8	6' - 0"	8' - 9"	1 3/4"	FG FG	ETR	ETR	EXIST.	8"		AL - ETR	PT	07		101	BUSINESS SOLUTIONS			PATCH ALL HOLES OR DAMAGE FROM PREVIOUS HARDWARE SELECTION AND PAINT TO MATCH PANEL FINISH AS SCHEDULED.
E9	5' - 0"	7' - 0"	1 3/4"	FS FS	ETR	PT-6	EXIST.	5 7/8"	No	HM - ETR	PT-5	ETR		E120	EXISTING HSKP	E119	EXISTING MENS	
E10	3' - 0"	7' - 0"	1 3/4"	FS	ETR	ETR	EXIST.	8"		HM - ETR	ETR	ETR		E123	SHELL SPACE			
E11	3' - 0"	7' - 0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		HM - ETR	ETR	ETR		E122	EXISTING MECHANICAL	E123	SHELL SPACE	
E12	6' - 0 5/256"	7' - 0"	1 3/4"	FG FG	ETR	ETR	EXIST.	8"		AL - ETR	PT	ETR		E123	SHELL SPACE			
E13	6' - 0"	7' - 0"	1 3/4"	FG FG	ETR	ETR	EXIST.	8"		AL - ETR	PT	08		101	BUSINESS SOLUTIONS			PATCH ALL HOLES OR DAMAGE FROM PREVIOUS HARDWARE SELECTION AND PAINT TO MATCH PANEL FINISH AS SCHEDULED.
E14	3' - 0"	7' - 0"	1 3/4"	FG	ETR	ETR	EXIST.	8"		AL - ETR	PT	09		101	BUSINESS SOLUTIONS			PATCH ALL HOLES OR DAMAGE FROM PREVIOUS HARDWARE SELECTION AND PAINT TO MATCH PANEL FINISH AS SCHEDULED.

DOOR HARDWARE SCHEDULE

SET 01: HINGE, RIM EXIT DEVICE, ELECTRIC STRIKE, SURFACE CLOSER, FLOOR 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, PASSAGE SET, SURFACE CLOSER, WALL STOP, SILENCERS
SET 06: HINGE, STORAGE LOCKSET, WALL STOP, GASKETING, ELECTRONIC STRIKE. CARD READER BY OTHERS.
SET 07: SURFACE CLOSER, WEATHER STRIPPING (ALL OTHER EXISTING TO REMAIN)
SET 08: ELECTRIFIED HINGE, SURFACE-MOUNT FLUSH BOLT, PANIC BAR, PULL, SURFACE CLOSER, WEATHER STRIPPINNG, TOUCH-LESS DOOR RELEASE. CARD READER BY OTHERS.
SET 09: PULL, SURFACE CLOSER, WEATHER STRIPPINNG (ALL OTHER EXISTING TO REMAIN)

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

DOOR PANEL TYPES

DOOR FRAME TYPES

10 A510 **WALL SECTION AT STOREFRONT**
SCALE: 1 1/2" = 1'-0"

INTERIOR FRAME TYPES

GLAZING TYPES

GL-1: TEMPERED GLASS

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

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

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

4 A510 **TYP. STEEL WINDOW FRAME - SILL DETAIL**
SCALE: 3" = 1'-0"

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

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

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DOOR & WINDOW SCHEDULES

THESE TEXAS NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) EXERCISE JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS AND CONSTRUCT THE TBAE AS CONSTRUCTION OF ARCHITECTURE WITHIN THE STATE OF TEXAS. TBAE REGULATIONS REQUIRE ARCHITECTS TO PROVIDE ARCHITECTURAL PLANS AND SPECIFICATIONS TO THE OWNER. 22 TAC 1.141(b)(2)

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1 A610 **INTERIOR FINISH PLAN**
SCALE: 1/8" = 1'-0"

FINISH PLAN GENERAL NOTES

1. REFER TO INTERIOR FINISH PLAN FOR FLOOR DIRECTIONS.
2. ALL FLOOR FINISH TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR WHEN DOOR IS IN CLOSED POSITION.
3. PAINT ALL ELECTRICAL AND ACCESS PANELS TO MATCH ADJACENT WALL COLOR, U.N.O.
4. PAINT ALL ACCESS PANELS IN CEILING TO MATCH ADJACENT CEILING COLOR, U.N.O.
5. HORIZONTAL AND VERTICAL SURFACE OF FURR-DOWN TO MATCH ADJACENT WALLS AND CEILING, U.N.O.
6. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS.

FINISH PLAN FINISH SYMBOL LEGEND

FINISH PLAN FLOORING LEGEND

NOTE: FLOOR CONFIGURATION AND LAYOUT SHALL BE REVIEWED AND APPROVED. THE FLOOR PATTERN SHOWN IS REPRESENTATION FOR AREA COVERAGE ONLY.

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INTERIOR FINISH PLAN

THESE TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS LICENSE TION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE WITHIN THE STATE OF TEXAS AND THAT THE TBAE DO CLAIM JURISDICTION OVER ALL ARCHITECTURAL DESIGNS PLACED WITHIN THE STATE OF TEXAS.
TBAE REGISTRATION NO. B-2345

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A610

ROOM FINISH SCHEDULE

NUMBER	NAME	BASE FINISH	FLOOR FINISH	NORTH	SOUTH	EAST	WEST	CEILING FINISH	CEILING HEIGHT	AREA	COMMENTS
101	BUSINESS SOLUTIONS	RB-1	CPT-2,3,LVT-1	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	1505 SF	
102	OFFICE	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	151 SF	
103	STORAGE	RB-1	CPT-2	PAINT	PAINT	PAINT	PAINT	ACT-1	8'-0"	26 SF	
104	STORAGE	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	8'-0"	31 SF	
106	OFFICE	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	134 SF	
107	COPY	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	104 SF	
108	CHILDCARE	RB-1	CPT-1,4	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	3230 SF	
109	COPY	RB-1	CPT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	14'-0"	36 SF	
110	CORRIDOR	RB-1	CPT-1,LVT-1	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	960 SF	
111	COFFEE	RB-1	LVT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	78 SF	
112	HUDDLE	RB-1	CPT-3	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	97 SF	
113	HUDDLE	RB-1	CPT-3	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	97 SF	
114	LARGE CONFERENCE	RB-1	CPT-2	PAINT	PAINT	PAINT	PAINT	VARIES	VARIES	405 SF	
115	STAFF BREAK	RB-1	LVT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	9'-6"	916 SF	
116	DATA/ELEC	N/A	N/A	PAINT	PAINT	PAINT	PAINT	N/A	OPEN TO STRUCTURE	42 SF	
E117	EXISTING ELEC	N/A	N/A	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	EXISTING TO REMAIN	66 SF	
E118	EXISTING WOMENS	RB-1	LVT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	EXISTING TO REMAIN	409 SF	EXISTING CEILING GRID AND LIGHT FIXTURES TO REMAIN.
E119	EXISTING MENS	RB-1	LVT-1	PAINT	PAINT	PAINT	PAINT	ACT-1	EXISTING TO REMAIN	295 SF	EXISTING CEILING GRID AND LIGHT FIXTURES TO REMAIN.
E120	EXISTING HSKP	RB-1	LVT-1	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	EXISTING TO REMAIN	20 SF	
E121	EXISTING FIRE RISER	N/A	N/A	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	EXISTING TO REMAIN	16 SF	
E122	EXISTING MECHANICAL	N/A	N/A	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	EXISTING TO REMAIN	141 SF	

FINISH LEGEND

FLOORING

LUXURY VINYL TILE

LVT-1 MANUF: INTERFACE
SERIES: STEADY STRIDE
COLOR: TBD BY INTERIOR DESIGNER
SIZE: 3MM THICK, 5"X39"
INSTALLATION: ASHLAR & HERRINGBONE
(REFER TO INTERIOR FINISH PLAN)

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

BASE

RUBBER BASE

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

WALL

PAINT

PT-1 MANUF: SHERWIN WILLIAMS
COLOR: TBD BY INTERIOR DESIGNER
FIELD COLOR

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

PT-3 MANUF: SHERWIN WILLIAMS
COLOR: TBD BY INTERIOR DESIGNER
ACCENT COLOR

PT-4 MANUF: SHERWIN WILLIAMS
COLOR: TBD BY INTERIOR DESIGNER
ACCENT COLOR

PT-5 MANUF: SHERWIN WILLIAMS
COLOR: TBD BY INTERIOR DESIGNER
EXISTING DOOR FRAME COLOR

PT-6 MANUF: SHERWIN WILLIAMS
COLOR: TBD BY INTERIOR DESIGNER
EXISTING DOOR PANEL COLOR

PORCELAIN WALL TILE

PTW-1 MANUF: BPI
SERIES: BPI SELECT, LIPICA OR
TRAVERTINE, TBD BY INTERIOR DESIGNER
COLOR: TBD BY INTERIOR DESIGNER
SIZE: 12"X24"
INSTALLATION: STACK BOND

CEILING

ACOUSTICAL CEILING TILE

ACT-1 MANUF: ROCKFON
SERIES: TROPIC, SQUARE LAY-IN
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: TBD BY INTERIOR DESIGNER
SIZE: 4' HIGH

END WALL

EW-1 MANUF: INPRO
SERIES: 160DBN BLUNOSE
COLOR: TBD BY INTERIOR DESIGNER
SIZE: 4' HIGH

MILLWORK

SOLID SURFACE

SS-1 MANUF: CORIAN
COLOR: DOVE, PRICE GROUP 3
THICKNESS: 1/2"
LOCATION: COUNTERTOPS

PLASTIC LAMINATE

PLAM-1 MANUF: FORMICA
COLOR: PECAN WOODLINE 5883-58
FINISH: TBD BY INTERIOR DESIGNER
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: QUADEC
FINISH: AE SATIN ANODIZED ALUMINUM
LOCATION: WALL TILE EDGE

1 / A611 **DETAIL - TYP. WALL TILE EDGE**
SCALE: 3" = 1'-0"

REGISTERED ARCHITECT ANDREA MARTINEZ RODAS 21675 STATE OF TEXAS
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INTERIOR ROOM FINISH SCHEDULE & DETAILS

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SHEET NUMBER
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1 A710 **FURNITURE FIXTURE EQUIPMENT PLAN**
SCALE: 1/8" = 1'-0"

FFE PLAN LEGEND

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

EQUIPMENT SCHEDULE

TAG	MODEL	COMMENTS	OWNER PROVIDED	OWNER INSTALLED	COUNT
EQ-1	MICROWAVE		Yes	Yes	3
EQ-2	REFRIGERATOR		Yes	Yes	4
EQ-3	COPIER/PRINTER		Yes	Yes	9
EQ-4	72" TV		Yes	Yes	2
EQ-5	55" TV		Yes	Yes	7

FURNITURE SCHEDULE

TAG	MODEL	COMMENTS	OWNER PROVIDED	OWNER INSTALLED	COUNT
FR-1	72" W X 24" D DESK		Yes	Yes	5
FR-2	96" W X 24" D DESK		Yes	Yes	30
FR-3	30" W LATERAL FILE 2 DRAWER		Yes	Yes	30
FR-4	ADJUSTABLE TASK CHAIR		Yes	Yes	30
FR-5	36" W X 24" D DESK		Yes	Yes	25
FR-6	CHAIR		Yes	Yes	25
FR-7	72" W X 36" D DESK		Yes	Yes	2
FR-8	OFFICE CHAIR		Yes	Yes	2
FR-9	LOUNGE CHAIR		Yes	Yes	2
FR-10	30" DIA. ROUND TABLE		Yes	Yes	2
FR-11	60" W X 48" D CONFERENCE TABLE AND CHAIRS		Yes	Yes	2
FR-12	96" W X 48" D CONFERENCE TABLE AND CHAIRS		Yes	Yes	1
FR-13	144" W X 54" D CONFERENCE TABLE AND CHAIRS		Yes	Yes	1
FR-14	COUNTER AND CABINETS		Yes	Yes	3
FR-15	36" DIA. ROUND MEETING TABLE AND CHAIRS		Yes	Yes	4
FR-16	72" W X 30" D CAFE TABLE AND CHAIRS		Yes	Yes	7
FR-17	UPPER OPEN SHELF		Yes	Yes	30

4 A710 **TYP. PRIVATE CUBICLE LAYOUT - CHILDCARE**
SCALE: 3/8" = 1'-0"

2 A710 **TYP. CUBICLE LAYOUT - BUSINESS SOLUTIONS**
SCALE: 3/8" = 1'-0"

5 A710 **CUBICLE LAYOUT - BUSINESS SOLUTIONS**
SCALE: 3/8" = 1'-0"

3 A710 **TYP. CUBICLE LAYOUT - CHILDCARE**
SCALE: 3/8" = 1'-0"

REGISTERED ARCHITECT ANDREA MARTINEZ RODAS 21675 STATE OF TEXAS
01/12/2022

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FURNITURE FIXTURE EQUIPMENT & SCHEDULE

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS AS PER THE TEXAS OCCUPATIONS CODE, CHAPTER 1051. ANY PERSON(S) OTHER THAN A LICENSED ARCHITECT IS PROHIBITED FROM PRACTICING ARCHITECTURE IN TEXAS. TBAE ENFORCEMENT PHONE NUMBER IS 512-305-9040.
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NOTE: QUANTITY OF ALL SIGN TYPES ARE ESTIMATED BASED ON THE FLOOR PLAN DESIGN. A SIGN SCHEDULE WILL BE PROVIDED FOR REVIEW DURING SHOP DRAWING PROCESS.

ALL SIGNAGE MOUNTED TO ADJACENT SIDELITE SHALL HAVE BACKER PANEL.

TYPE A - ROOM NAME SIGNAGE - QTY: 13

TYPE B - ROOM NAME W/ INSERT SIGNAGE - QTY: 2

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

REGISTERED ARCHITECT
MARTINEZ RODAS
21675
STATE OF TEXAS
01/12/2022

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Corpus Christi, TX
78401-0750

REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET, SUITE 4985
CORPUS CHRISTI, TX 78415

SIGNAGE TYPES

THIS STOGAY NOTICE AND VERIFIES THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) DIAS EITHER ENDORSE THIS OR FOR THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THIS STATE IF THIS CONTRACT THE TBAE AT 1-800-CONTACT-TBAE (1-800-2822-8223) OR WRITE TO THE TBAE AT 333 GUADALUPE, TOWER NORTH, SUITE 2-350, AUSTIN, TX 78701-3942

JOB NO.	202147
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/12/2022
DRN. BY:	KD
CKD. BY:	AR

SHEET NUMBER

A810

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 review.

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 submittals.

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 C&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. SUBSTITUTIONS

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

III. MAINTENANCE STATEMENT

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.

IV. CODES

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. DESIGN LOADS

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

1. Ceiling and Mechanical at roof 5 psf
2. Roofing and rigid insulation 2 psf

B. Wind loads (Based on ASCI 7-16) IBC 2018 with TDI Amendments [allowable pressures] Wind lateral load on structural frame is based on ASCE 7 using the following:

1. Basic Wind Speed (3 sec) 144 ULT mph
2. Exposure C
3. Importance Factor 1.0
4. Gross Wind Uplift Pressures on Roof Components and Cladding are as follows: (kd=0.9)

Roof Top Equipment:
P_U = 81.9 psf
P_V = -65.3 psf

VI. SUBMITTALS

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:

1. Shop Drawings
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

1. The General Contractor shall submit for Engineer review shop drawings for the following items:
   a. Miscellaneous Steel
   b. Unistrut Framing

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

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

I. Manufacturers Literature – Submit two copies of manufacturer's literature for all 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 herein as correct, and obligates himself to any job expense, real or implied, arising due to any errors that may occur hereon

VII. STRUCTURAL STEEL

A. Material

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

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

B. Fabrication

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

C. Erection

1. Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.
2. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.

D. Hot Dip galvanize after fabrication all structural steel items and connections permanently exposed to the outside, whether specified on the drawings or not. Such items include, but are not limited to:

1. All embedded plates in concrete exposed to earth weather
2. Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.
3. 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.

VIII. STRUCTURAL STEEL CONNECTIONS

A. Welded Connections

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

IX. 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 (RDPRC) 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 inspections.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.

X. TEXAS DEPARTMENT OF WINDSTORM CERTIFICATION

A. Texas Department of Windstorm Certification
The project is located in Nueces County wind zone designated catastrophe area. All exterior windows, doors, Overhead Roll up Doors, wall coverings, roof coverings and mechanical equipment and their attachment to the main structure must be designed for a component and cladding wind pressure corresponding to a 3-sec gust of 144 mph wind speed Exposure C. According to the International Building Code 2018 edition with Texas Windstorm Requirements. All products will be required certification stating that the products have been designed and installed for the components and cladding uniform static wind pressure of the aforementioned codes. The sub-contractor shall submit the wind storm product certification, the component and cladding wind pressure product was designed for any manufacture certification in regards to Texas Wind Storm, and the connection requirements for the product to the Engineer of Record. The TDI documentation and shall have details showing fasteners and spacing.

B. Texas Windstorm Submittals.

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

C. Texas Windstorm Component and Cladding Submittals

   a. Mechanical Roof Curbs
   b. Exterior Mechanical Units.

D. Texas Windstorm Inspections

1. Roof Mounted MEP Equipment

E. TDI Corrosion Resistance Requirements for Construction in the Designated Catastrophe Zone, as defined by TDI, the following modifications must be made to the Fastener Schedule:

1. Metal connectors and fasteners located in open areas shall be either stainless steel and meet ASTM A167; hot-dip galvanized after fabrication and meet ASTM A123 or ASTM A153; hot-dip galvanized or electrogalvanized in accordance with ASTM A641; mechanically deposited zinc coatings in accordance with ASTM B695; or electrodeposited zinc coatings in accordance with ASTM B633.

2. Metal connectors and fasteners located in vented or enclosed areas may meet the requirements of R325.1.2.1 or shall be epoxy-coated in accordance with ASTM A899.

3. Exception for all Areas – Metal connectors and fasteners located in conditioned areas (Heated and Cooled Living Areas) are not required to be corrosion resistant. One-half inch diameter or greater steel bolts are not required to be corrosion resistant.

4. Open Areas Shall Include Porches, Decks, Carports, Exterior Wall Coverings, Roof Coverings, Metal Ties for Stone and Masonry Veneer, The Underside of Elevated Structures, Anchors for Securing Mechanical Equipment, Garage Door Attachments, Roof Vent Attachments, Skylight Attachments, and Impact Protective Systems (Shutters).

5. Vents Areas Shall Include Attics, Exterior Wall Stud Cavities, Crawl Spaces, Window and Exterior Door Attachments, Roof Sheathing, and Wall Sheathing.

F. Products that are not Approved by TDI or The Florida Building Code will require Certification by a professional Engineer. The drawings and calculations shall be sealed. Additional cost will be charged to the Contractor for review of submittal that are not TDI or Florida Building Code Approved.

1 STRUCTURAL GENERAL NOTES

SCALE: NTS

2 TYPICAL DETAIL STIFFENING OF STEEL JOIST FOR CONCENTRATED LOADS

SCALE: NTS

NOTE:
LOCATE WITHIN 2'-0" OF BEAM

3 TYPICAL MEP EQUIPMENT AND CURB ATTACHMENT DETAIL

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

DETAIL NOTES:
1. FIELD VERIFY EXISTING CONDITION NOTIFY ENGINEER IF DIFFERENT THAN SHOWN.
2. EQUIPMENT MUST BE PLACED ON EXISTING FRAMING WHERE NO OTHER EQUIPMENT IS SUPPORTED BY JOIST, NOTIFY ENGINEER PRIOR TO PLACEMENT.

4 TYPICAL MEP EQUIPMENT AND CURB ATTACHMENT DETAIL

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

Garza + McLain
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FIRM NO.: F-9331
EXPIRATION: 5-31-2022
JOB NO.: 220001

STATE OF TEXAS
GABRIEL GARZA
90960
LICENSED PROFESSIONAL ENGINEER
01-12-2022

clk architects & associates
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Corpus Christi, TX
78401-0750

MARK	DESCRIPTION	DATE
	REVISIONS	

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET, SUITE 4985
CORPUS CHRIST, TX 78415

STRUCTURAL GENERAL NOTES AND DETAILS

THIS IS TO GIVE NOTICE AND VERIFIED THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS TRAS JUCRISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT P.O.BOX 12337 AUSTIN, TEXAS 78711 TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, 333 GUADALUPE, SUITE 2-350, AUSTIN, TEXAS 78701

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HVAC SECTION 15500

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

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

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

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

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

RECORD DOCUMENTS: PROVIDE AT THE TIME OF REQUEST FOR FINAL PAYMENT THE FOLLOWINGS DOCUMENTS:
1– LETTER OF GUARANTEE FROM THE CONTRACTOR.
2– MANUFACTURER'S PARTS DATA AND SERVICE INSTRUCTIONS ON ALL ITEMS OF EQUIPMENT.
3– MANUFACTURER'S GUARANTEES AND WARRANTIES.

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

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED. FURNISH AND INSTALL ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

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

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

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 FAN 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 EQUIPED WITH INTERGRAL BACKDRAFT DAMPER AND SWITCHED LOCALLY AS INDICATED ON THE DOCUMENTS. APPROVED MANUFACTURERS ARE GREENHECK, COOK, AND PENN.

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

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

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

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

DUCT WRAP/ASJ INSULATION: (ON ALL SUPPLY, RETURN, AND ROUND RIGID SHEETMETAL DUCTWORK): PROVIDE 2" THICK FIBERGLASS ASJ DUCTWRAP WITH VAPOR SEAL ON ALL SHEETMETAL DUCT. INSULATION SHALL HAVE AN INSTALLED R–VALUE OF 5 OR GREATER WITH A K VALUE OF 0.28. ACCEPTABLE MANUFACTURERS ARE KNAUF, OWENS CORNING, JOHNS MANVILLE. INSULATION SHALL MEET THE LATEST 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 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 CLAMPING DEVICES, SCREW OPERATED. USE TWISTLOCK CONICAL TAP COLLARS AT CONNECTIONS INTO SHEET METAL DUCTWORK. DO NOT EXCEED 6 FEET IN LENGTH. FLEXMASTER 8M OR APPROVED EQUAL.

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

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

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

AUTOMATIC TEMPERATURE CONTROL: PROVIDE FOR EACH HVAC UNIT, LOW VOLTAGE SEVEN DAY PROGRAMABLE 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 NON–VOLATILE MEMORY WITH MINIMUM 24 HOUR MEMORY RETAINTION, 5 DEGREE F DEADBAND, AND LCD DISPLAY.WIRING SHALL COMPLY WITH SECTION 16000 REQUIREMENTS. PROVIDE RELAYS AS REQUIRED FOR UNIT INTERFACE. PROVIDE ALL TEMPERATURE CONTROL WIRING FOR ALL HVAC SYSTEMS, INCLUDING THERMOSTATS, SMOKE DETECTOR INTERLOCK ETC. INSTALL THERMOSTAT SAME HEIGHT AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT.

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA AND NRCA STANDARDS.

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

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 SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.
3. VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO COMMENCING ANY WORK.
4. ALL EQUIPMENT (RECEPTACLES, DISC. SWITCHES, ETC.) SHALL BE WEATHERPROOF.
5. ALL FUSES FOR HVAC UNITS SHALL BE SIZED AS REQUIRED BY MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITING, TIME DELAY BUSSMAN FRN–R OR EQUAL BY GOULD SHAWMUT.
6. ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
7. 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.
8. 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.
9. ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

GENERAL ENERGY NOTES:

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

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

OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE PROVIDED WITH AUTOMATIC MEANS TO REDUCE AND SHUT OFF AIRFLOW WITH THE EXCEPTION FOR SYSTEM DESIGNED FOR CONTINUOUS 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 BELISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B. 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 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 INSULATION (inch)		
	NORMINAL PIPE DIA.	
FLUID	≤ 1.5"	> 1.5"
STEAM	1–1/2	3–1/2
HOT WATER	1	1–1/2
CHILL WATER or REFRIGERANT	1	1

MINIMUM DUCT INSULATION (R)	
UNCONDITIONED SPACE	≥ 5
OUTSIDE BLDG. ENVELOPE	≥ 8

EXCEPTIONS:
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.

SYSTEMS START–UP REQUIREMENTS

CONTRACTOR SHALL PROVIDE AN EQUIPMENT OPERATION CHECK (EOC). EOC TO PROVIDE 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 FOLLOWING EQUIPMENT AND INSTALLATION INTEGRITY CHECKS SHALL BE PERFORMED AS PART OF AN EOC. ANY INSTALLER DEFECTS SHALL BE NOTED AND ANY FACTORY DEFECTS SHALL BE REPAIRED. A REPORT FOR EACH UNIT ALONG WITH A SUMMARY REPORT FOR THE JOB SITE WILL BE PROVIDED TO THE OWNER AND ENGINEER UPON COMPLETION.

JOB SITE REQUIREMENTS PRIOR TO EOC:

A. COMPLETE INSTALLATION OF ROOFTOP UNIT PER MECHANICAL DRAWINGS, SPECIFICATIONS AND THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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

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

D. ALL FIELD INSTALLED HOODS ACCESSORIES MUST BE INSTALLED AND OPERATIONAL.

1. UNIT INSTALLATION CHECK:
   - _____ A. RECORD RTU #, UNIT C/N, UNIT MODEL #, AND UNIT SERIAL #.
   - _____ B. CHECK CURB INSTALLATION INCLUDING VIBRATION ISOLATION AND WIND OR SEISMIC RESTRAINTS. VERIFY PER OWNER SPECIFICATIONS AND THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   - _____ C. CHECK UNIT CLEARANCES AND VERIFY INSTALLATION PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   - _____ D. CHECK DOOR ALIGNMENT AND ADJUST AS NECESSARY.
   - _____ E. CHECK UNIT INSTALLATION IS SECURE AND CLEAN.
   - _____ F. CHECK INSTALLATION OF CONDENSATE TRAP AND DRAIN LINES PER THE PROJECT SPECIFICATIONS, DRAWING DETAILS AND ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTION.
   - _____ G. CHECK AND NOTE INSTALLATION OF ANY ROOFTOP UNIT MANUFACTURER'S PROVIDED ACCESSORIES PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   - _____ H. CHECK CLEANLINESS OF UNIT AND AREA AROUND IT. DISPOSE OF ANY DEBRIS FOUND.
2. ELECTRICAL SYSTEM CHECK:
   - _____ A. CHECK AND RECORD INCOMING POWER SUPPLY. VERIFY PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATONS AND RECORD.
   - _____ B. VERIFY INSTALLATION AND PROPER SIZING OF ELECTRICAL DISCONNECT OR CIRCUIT BREAKER INCLUDING WIRE SIZE.
   - _____ C. CHECK ELECTRICAL CONNECTIONS AND TIGHTEN AS NEEDED.
   - _____ D. VERIFY INSTALLATION OF WIRING TO 120V CONVENIENCE OUTLET (IF APPLICABLE).
   - _____ E. CHECK AND RECORD UNIT'S CONTROL TRANSFORMER(S) SECONDARY VOLTAGE. ADJUST PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.
3. INTEGRATED MODULAR CONTROLLER CHECK:
   - _____ A. VERIFY LED HEARTBEAT ON ALL THE ROOFTOP UNIT MANUFACTURER'S PROVIDED CONTROL BOARDS.
   - _____ B. RECORD HARDWARE AND SOFTWARE VERSIONS OF ALL PROVIDED CONTROL BOARDS.
   - _____ C. VERIFY DIP SWITCHES ON ALL CONTROL BOARDS ARE SET FOR OWNER SPECIFICATIONS PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS
   - _____ D. VERIFY ALL THE ROOFTOP UNIT MANUFACTURER'S PROVIDED TEMPERATURE SENSORS READINGS ARE ACCURATE.
4. SUPPLY FAN SYSTEM CHECK:
   - _____ A. CHECK BLOWER PULLEY SEY SCREWS FOR PROPER TORQUE. ADJUST AS NEEDED.
   - _____ B. CHECK BELT TENSION AND ALIGNMENT AND ADJUST AS NEEDED.
   - _____ C. START UNIT INDOOR BLOWER TO CHECK ROTATION CORRECT AS NEEDED. VERIFY AND DRAW IS PER THE ROOFTOP UNIT MANUFACTURERS SPECIFICATIONS AND RECORD.
5. COOLING SYSTEM CHECK:
   - _____ A. LEAK CHECK ALL CIRCUITS.
   - _____ B. CHECK COIL INTEGRITY AND CLEANLINESS. CLEAN AS NEEDED.
   - _____ C. START EACH COMPRESSOR IN UNIT. CONFIRM PROPER ROTATION AND CORRECT AS NEEDED
   - _____ D. CHECK REFRIGERANT PRESSURES OF EACH CIRCUIT PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATION. CORRECT CHARGE AS NEEDED.
   - _____ E. RECORD TEMPERATURE DROP ACROSS THE EVAPORATOR COIL IN FULL COOLING (ALL COMPRESSOR RUNNING).

COMMENTS:_____

_____

6. GAS HEATING SYSTEM (WHEN SPECIFIED):
   - _____ A. RECORD FUEL TYPE.
   - _____ B. CHECK INSTALLATION OF INTAKE AND EXHAUST HOODS. VERIFY PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   - _____ C. CHECK INSTALLATION OF GAS UNIONS.
   - _____ D. CHECK AND RECORD INCOMING GAS PRESSURE TO UNIT.
   - _____ E. CHECK MANIFOLD GAS PRESSURE FROM THE OUTLET OF THE BAS VALVE(S) PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS. ADJUST AS NECESSARY.
   - _____ F. CHECK AND RECORD TEMPERATURE RISE ACROSS HEAT EXCHANGER IN FULL HEAT.
   - _____ G. CHECK OPERATION OF TEMPERATURE LIMIT.
7. ELECTRICAL HEAT SYSTEM CHECK: (WHEN SPECIFIED):
   - _____ A. CHECK AND RECORD AMP DRAW OF THE HEATING ELEMENTS.
   - _____ B. CHECK HEATING SECTION OPERATION. RECORD TEMPERATURE RISE THRU UNIT IN FULL HEATING OPERATION PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.
   - _____ C. CHECK OPERATION OF TEMPERATURE LIMIT.
   - _____ D. CHECK REFRIGERANT PRESSURES OF EACH CIRCUIT PER
8. THERMOSTAT/UNIT CONTROLS SYSTEM CHECK:
   - _____ A. RECORD THERMOSTAT OR DDC SYSTEM MAKE, MODEL AND SERIAL NUMBER.
   - _____ B. VERIFY CLASS 2 CONTROLS WIRING INSTALLATION TO TERMINAL BOARD OF UNIT.
   - _____ C. VERIFY THAT REMOTE SENSORS ARE OPERATIONAL.
   - _____ D. VERIFY CO^2SENSORS ARE OPERATIONAL.
   - _____ E. PERFORM COOLING SIMULATION TEST. VERIFY COOLING STAGES PER OWNER'S SPECIFICATIONS.
   - _____ F. PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS.
   - _____ G. PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.
9. INDOOR AIR QUALITY SYSTEM CHECK:
   - _____ A. CHECK AND RECORD CONDITION AND TYPE OF FILTERS.
10. OUTDOOR AIR ACCESSORY CHECK:
   - _____ A. CHECK OPERATION OF ECONOMIZER OR MOTORIZED OUTDOOR AIR DAMPER BY DRIVING IT FULL OPEN AND CLOSED.
   - _____ B. RECORD MINIMUM DAMPER POSITION AND ENTHALPY SETTING (IF PROVIDED).
   - _____ C. CHECK ECONOMIZER CONTROL BOARD SETTINGS PER OWNER SPECIFICATIONS. RECORD SETTING.
   - _____ D. CHECK OPERATION OF BAROMETRIC RELIEF DAMPER IF INSTALLED.
   - _____ E. CHECK OPERATION OF POWER EXHAUST IF INSTALLED. CHECK MOTOR AMP DRAW PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
11. CONTROL CHECK:
   - _____ A. VERIFY COMPLETE INSTALLATION/OPERATION OF ALL THERMOSTATS AND TIME CLOCKS IF UTILIZED.
   - _____ B. VERIFY COMPLETE INSTALLATION/OPERATION OF SMOKE DETECTOR/FIRE ALARM INTERFACE.
12. DUCT SYSTEMS AND AIR DISTRIBUTION:
   - _____ A. VERIFY INSTALLATION CONFORMS TO DESIGN AND ALL PIECES OF AIR DISTRIBUTION, DUCTWORK, DIFFUSERS AND GRILLES ARE COMPLETE AND PROPERLY INSTALLED.
   - _____ B. VERIFY ALL MANUAL VOLUME DAMPERS ARE IN FULL OPEN OR NEUTRAL POSITION.
13. EXHAUST FAN(S):
   - _____ A. VERIFY PROPER INSTALLATION/OPERATION AND FAN ROTATION.

SIGNATURE: _____ DATE: _____

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

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

_ END OF SECTION _

HVAC DESIGN CRITERIA

JOB LOCATION	DESIGN CONDITIONS		WORST CASE HUMIDITY CONDITIONS	
CORPUS CHRISTI, TX 44 FT ALTITUDE	SUMMER DB / MWB (DEG. F)		SUMMER DB / MWB (DEG. F)	
	96.8/77.6		83.3/80.1	
	WINTER DB (DEG. F)		DEW POINT (DEG. F)	
	34.6		79.1	
INTERIOR DESIGN AREA	SUMMER		WINTER	
	DB	(%) RH	DB	(%) RH
OFFICE	74	50	70	50

1/12/2022
STATE OF TEXAS
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MARK	DESCRIPTION	DATE

REVISIONS

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET
CORPUS CHRISTI , TX 78415

MECHANICAL SPECIFICATIONS

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9040 TO FILE A COMPLAINT TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337

JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CKK
CKD. BY:	SMR

SHEET NUMBER
M100

Jan 12, 2022 – 8:06am
21226_MECH.dwg

1 MECHANICAL DEMO PLAN
SCALE: 1/8" = 1' - 0"

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

REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
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CORPUS CHRISTI, TX 78415

MECHANICAL DEMO PLAN

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1/12/2022
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JOB NO.	202147
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SHEET NUMBER
MD101

Jan 12, 2022 – 8:06am
21226_MECH.dwg

1 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1' - 0"

MECHANICAL KEYED NOTES:

1. PROVIDE MANUAL BALANCING DAMPERS AT ALL RUN OUTS SHOWN OR NOT (TYPICAL).
2. SUPPLY AND RETURN DUCTS TO RTU. TRANSITION AS NECESSARY. TIE EXISTING DUCT-MOUNTED SMOKE DETECTORS TO NEW BUILDING FIRE ALARM SYSTEM. UNIT TO DEACTIVATE UPON DETECTION OF SMOKE. SEE SHEET M102 KEYED NOTE 3.
3. PROVIDE AND INSTALL WALL-MOUNTED THERMOSTAT FOR EACH VAV UNIT. MOUNT 48" A.F.F.
4. ROUTE CONDENSATE DRAIN LINE FROM AHU-1 TO TERMINATE 3 INCHES ABOVE HUB DRAIN LOCATED IN ROOM. COORDINATE WITH PLUMBING CONTRACTOR.
5. INSULATE CONDENSATE DRAIN LINE WITH 1" CLOSED CELL INSULATION.
6. PROVIDE COVER WITH HARDWARE CLOTH.
7. EXPOSED DUCTWORK SHALL HAVE A PAINT GRIP FINISH AND BE INTERNALLY INSULATED SINGLE WALL WITH AN R-6 THERMAL VALUE. LOCATE DUCTS AS HIGH AS POSSIBLE AND PAINT AS PER THE ARCHITECTURAL REQUIREMENTS.
8. PROVIDE 24X14 MOTORIZED DAMPER CONTROLLED BY DUCT PRESSURE SENSOR TO INCREMENTALLY OPEN TO RELIEVE PRESSURE WHEN VFD CAN NO LONGER TURN DOWN ON THE UNIT. DAMPERS SHALL BE 24V AND PROVIDED WITH A 120 TO 24V CONTROL TRANSFORMER.

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CORPUS CHRISTI, TX 78415

MECHANICAL FLOOR PLAN

THIS IS TO GIVE NOTICE, AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS STRIKES JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-8535 IF YOU BELIEVE THIS PROFESSIONAL IS NOT REGISTERED WITH THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS. P.O. BOX 12337, AUSTIN, TEXAS 78711-2337

1/12/2022
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CKD. BY:	SMR

SHEET NUMBER
M101

Jan 12, 2022 – 8:06am
21226_MECH.dwg

1 MECHANICAL ROOF PLAN
SCALE: 1/8" = 1' - 0"

MECHANICAL KEYED NOTES:

1. INSTALL CONDENSING UNIT ON NEW EQUIPMENT CURB SIMILAR TO THYBAR "TEM-3". CURB SHALL BE 18 INCHES TALL AND SECURED TO THE STRUCTURE AS PER THE WINDSTORM ENGINEERS RECOMMENDATIONS.
2. CONTRACTOR SHALL VERIFY UNIT OPERATION AND REPLACE FILTERS. SEE RTU SCHEDULE ON SHEET M201 FOR DETAILS.
3. INTERLOCK EXISTING DUCT SMOKE DETECTOR WITH NEW BUILDING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY RELAYS AND COORDINATE WITH FIRE ALARM CONTRACTOR.
4. TURN UNIT OFF AND PREP FOR FUTURE RELOCATION.
5. PROVIDE DUCT MOUNTED PRESSURE SENSOR SET AT 1" STATIC PRESSURE WIRED TO THE UNIT AND REPROGRAM RTU FOR VAV OPERATION.
6. PROVIDE CHEMLINK CHEMCURB HOT PIPE E-CURB FOR ROOF PENETRATION OF REFRIGERANT LINES TO AHU DOWN BELOW.

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CORPUS CHRISTI , TX 78415

MECHANICAL ROOF PLAN

THESE TRUGENT NOTICE AND VERIFIES THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS AND THAT THE PRACTICE OF ARCHITECTURE WITHIN THE JURISDICTION OF THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337

1/12/2022
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JOB NO.	202147
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SHEET NUMBER
M102

Jan 12, 2022 – 8:06am
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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.
F. 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.
I. CONCEALED DUCTWORK TO HAVE OPERABLE QUADANTS ON BALANCING DAPERS.
J. PROVIDE ACCESS TO ALL CONTROL, MOTORIZED, BALANCING AND FIRE DAMPERS. PROVIDE ACCESS DOORS IN DUCTS AND CEILINGS WHERE NECESSARY.
K. 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.
L. 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.

AIR DEVICE SCHEDULE

PLAN MARK	MANUF. & MODEL NUMBER	SERVICE	MODULE SIZE	NECK SIZE	FACE SIZE	BORDER TYPE	FINISH	BLOW PATTERN	MAT'L.	OPTIONS/NOTES
A	TITUS TDC-AA	SUPPLY	24 X 24	6"ø	18 X 18	3	26	4	ALU	
B	TITUS TDC-AA	SUPPLY	24 X 24	8"ø	18 X 18	3	26	4	ALU	
C	TITUS TDC-AA	SUPPLY	24 X 24	10"ø	18 X 18	3	26	4	ALU	
D	TITUS TDC-AA	SUPPLY	24 X 24	12"ø	18 X 18	3	26	4	ALU	
E	TITUS 50 F	RETURN	24 X 24	SEE PLAN	20 X 20	3	26	–	ALU	¼" X ½" X 1" CORE
F	TITUS 50 F	RETURN	24 X 12	SEE PLAN	20 X 8	3	26	–	ALU	¼" X ½" X 1" CORE
G	TITUS 300 FS	SUPPLY	12 X 8	10 X 6	12 X 8	1	26	2	ALU	AG-15-AA
H	TITUS 300 FS	SUPPLY	20 X 12	18 X 10	20 X 12	1	26	2	ALU	AG-15-AA
I	TITUS 300 FS	SUPPLY	18 X 8	16 X 6	18 X 8	1	26	2	ALU	AG-15-AA
I	TITUS 50 F	RETURN	24 X 12	SEE PLAN	20 X 8	1	26	–	ALU	¼" X ½" X 1" CORE

BORDER TYPE
1. SURFACE MOUNT
2. SNAP-IN
3. LAY-IN
4. SPLINE
5. DROPPED
6. BEVELED

BLOW PATTERN
1. 1-WAY
2. 2-WAY
2C. 2-WAY, OPPOSITE
3. 3-WAY
4. 4-WAY+

FINISH
01 ALUMINUM
04 MILL (STD)
26 WHITE

MATERIAL
ST'L 22 GAUGE STEEL
ALU ALUMINUM

OPTIONS/NOTES

TRM	RAPID MOUNT FRAME
PFSS	SS PLASTER FRAME
PFA	ALUM PLASTER FRAME
AG-15	STEEL DAMPER
AG-15-AA	ALUMINUM DAMPER
AG-15-SS	STAINLESS STEEL DAMPER
EQT	EARTHQUAKE TABS
L	FRONT BLADE LONG ORIENTATION
S	FRONT BLADE SHORT ORIENTATION
AG-85	BUTTERFLY DAMPER
EG	EQUALIZING GRID
TRV	THROW REDUCING VANES

1 RTU AIR FLOW SCHEMATIC
NOT TO SCALE

HVAC SYMBOLS AND ABBREVIATIONS

DUCTWORK:
- 20"ø — PRIMARY DUCT, ROUND
- 20/12 — PRIMARY DUCT, RECTANGULAR
- DUCT TRANSITION
- BRANCH TAP
- MANUAL VOLUME DAMPER (MVD)

LINE TYPES:
- NEW EQUIPMENT
- NEW PIPING OR DUCT
- EXISTING PIPING OR DUCT

- RETURN AIR
- FSD — FIRE/SMOKE DAMPER
- CEILING DIFFUSER
- RETURN/EXHAUST AIR GRILLE

MISCELLANEOUS:
- TS HS — ZONE TEMP/HUMIDITY SENSOR
- T H — ZONE THERMOSTAT/HUMIDISTAT
- A 8"ø 200 CFM — AIR DEVICE TYPE, NECK SIZE, SCHEDULED CFM
- NEW CONNECTION TO LANDLORD'S BASE SYSTEM

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

LEGEND

ø	SQUARE	HVAC	HEATING VENTILATING & AIR CONDITIONING
ø	ROUND	IN W.G.	INCH WATER GAUGE
ACC.DR.	ACCESS DOOR	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	MBH	THOUSAND BTU PER HOUR
DB	DRY BULB	MOCP	MAXIMUM OVER CURRENT PROTECTION
E/A	EXHAUST AIR	O/A	OUTSIDE AIR
EAT	ENTERING AIR TEMPERATURE	PD	PRESSURE DROP
ESP	EXTERNAL STATIC PRESSURE	R/A	RETURN AIR
FC	FLEXIBLE CONNECTION	RLA	RUNNING LOAD AMPS
FLA	FULL LOAD AMPS	RPM	REVOLUTION PER MINUTE
FPI	FINS PER INCH	S/A	SUPPLY AIR
FT W.G.	FOOT WATER GAUGE	SP	STATIC PRESSURE
GA.	GAUGE	SQ FT	SQUARE FEET
GALV	GALVANIZED	U.C.D.	UNDERCUT DOOR BY 1"
GPM	GALLONS PER MINUTE	WB	WET BULB

AIR BALANCE SCHEDULE

BASED ON ASHRAE 62.1-2010

MARK	SERVES	SUPPLY AIR CFM	RETURN AIR CFM	OUTSIDE AIR CFM	EXHAUST AIR CFM	RESULTING BALANCE	PERCENT OUTSIDE AIR
(E) RTU-4	OFFICE	2635	2275	360		360	13.7%
(E) RTU-6	OFFICE	2340	1770	570		570	24.4%
(E) RTU-9	OFFICE	4635	4175	460		460	9.9%
OA	OUTSIDE AIR TOTAL					1390	
EA	EXHAUST AIR TOTAL					0	
	DIFFERENCE (OA-EA)					1390	

	CONDITIONED AREA (SQUARE FEET)	7834		
A	DESIRED CFM FOR PRESSURIZATION (CFM/SF)	0.033	258.522	CFM
B	BUILDING LEAKAGE BASED ON EXISTING BLDG AT 0.1 CFM/SF X TOTAL SURFACE AREA		1121.2	CFM
C	BUILDING EXHAUST		0	CFM
	MINIMUM REQUIRED FOR PRESSURIZATION (A+B+C)		1380	CFM
	AMOUNT OF FRESH AIR PROVIDED (DELIVERED)		1390	
	AMOUNT TO BE RELIEVED (DELIVERED – MINIMUM)		10	CFM

BUILDING PRESSURIZED AT: 0.025 in. W.G. AT 1380 CFM

DX MINISPLIT UNIT SCHEDULE

AIR HANDLER SCHEDULE

MARK	AHU-1
SERVES	(PD) IT
TYPE	WALL HUNG
MIN-MAX SUPPLY (CFM)	265-385
MAX FAN RPM	ECM
COOLING COIL (MBTUH) MAX/MIN	12/5.8
NOMINAL TONNAGE	1
ELECTRICAL DATA	
VOLTS/PH/HZ	208/1/60
MCA	1
MANUFACTURER	MITSUBISHI
MODEL NO.	PKA-A12LA
NOTES	3,4,5,6

CONDENSING UNIT SCHEDULE

MARK	CU-1
SERVES	AHU-1
NOMINALCOOLING MBTUH	12
NOMINAL HEATING MBTUH	0
AMBIENT TEMP.	100
SEER	21.0
MCA	11
MOCP	28
VOLTS/PH.HZ	208/1/60
MANUFACTURER	MITSUBISHI
MODEL NO.	PUY-A12NKA7-BS
NOTES	2,3,6,7

NOTES:
1. PROVIDE UNIT WITH X87-721 BLUE DIAMOND ADVANCED MINI CONDENSATE PUMP WITH RESERVOIR AND SENSOR.
2. SIZE REFRIGERANT LINES AS PER THE MANUFACTURERS INSTRUCTIONS. PROVIDE INVERTER DRIVEN COMPRESSORS, HIGH AND LOW PRESSURE SWITCHES, CRANKCASE HEATERS, NON-BLEED PORT, AND ADJUSTABLE LEV VALVE. PROVIDE PRESSURE TAPS ON INLET AND OUTLET OF INDOOR COILS. PROVIDE SUCTION ACCUMULATORS ON ALL UNITS.
3. DO NOT EXCEED MANUFACTURES RECOMMENDED REFRIGERENT LINE LENGTHS.
4. PROVIDE WIRED THERMOSTAT.
5. UNITS SHALL BE WALL MOUNTED COOLING ONLY UNIT.
6. ACCEPTABLE MANUFACTURES ARE MITSUBISHI OR DAIKIN.
7. PROVIDE WIND RATED 14" TALL PLATFORM CURB FOR UNIT MOUNTING. STRAP UNIT TO CURB WITH 18 GAUGE STRAPS.

ROOFTOP UNIT SCHEDULE

MARK	(E)RTU-4	(E)RTU-6	(E)RTU-9
TYPE	VAV	VAV	VAV
SERVES	Office	Office	Office
TONS	12.5	12.5	12.5
EER (IEER)	12.1	12.1	12.1
CFM	3600	3600	4635
OA CFM	360	570	460
EXT SP	0.75	0.75	0.75
COOLING SECTION			
EAT DB/WB	82.5/65.5	84.0/67.6	75.8/60.5
LAT DB/WB	55.0/54.4	55.0/54.6	55.0/51.1
TOT MBTUH	95.6	111.2	122.3
SEN MBTUH	78.3	85.9	100.3
HEATING SECTION			
TYPE/AMBIENT DB	ELEC/32	ELEC/32	ELEC/32
INPUT/STAGES	18 kW/1	18 kW/1	18 kW/1
EAT/LAT	64/80	60/76	68/80
ELECTRICAL INFO			
VOLTS/PH	480/3/60	480/3/60	480/3/60
MCA	35	35	35
MOCP	40	40	40
MFG/MODEL NO.	EXISTING	EXISTING	EXISTING
NOTES:	1, 2	1, 2	1, 2

NOTES:
1. CONTRACTOR SHALL REPLACE FILTERS AT THE FOLLOWING TIMES: ONCE BEFORE CONSTRUCTION, ONCE DURING CONSTRUCTION (MIDWAY), AND ONCE AT THE END OF CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY ALL HEATING AND COOLING ARE FUNCTIONING PROPERLY. THERMOSTATS SHALL BE RELOCATED AS PER THE PLANS.

SINGLE DUCT TERMINAL UNIT SCHEDULE

Tag	AHU Tag	Model	Size Unit	Size Outlet	Hand	CFM Max	CFM Min	Static Pressure Inlet	Static Pressure Down	Static Pressure Min	NC Levels Rad.	NC Levels Disch.
VAV-0401	(E) RTU-4	DESV	12	16x15	RH	1775	178	1.50	0.50	0.01	27	31
VAV-0402	(E) RTU-4	DESV	12	16x15	RH	1825	182	1.50	0.50	0.01	27	31
VAV-0601	(E) RTU-6	DESV	10	14x12.5	RH	1275	202	1.50	0.50	0.01	28	33
VAV-0602	(E) RTU-6	DESV	06	12x8	RH	410	65	1.50	0.50	0.14	24	29
VAV-0603	(E) RTU-6	DESV	06	12x8	RH	430	68	1.50	0.50	0.14	24	29
VAV-0604	(E) RTU-6	DESV	12	16x15	RH	1485	235	1.50	0.50	0.01	25	29
VAV-0901	(E) RTU-9	DESV	14	20x17.5	RH	1800	179	1.50	0.50	0.03	23	24
VAV-0902	(E) RTU-9	DESV	14	20x17.5	RH	2350	233	1.50	0.50	0.05	25	25
VAV-0903	(E) RTU-9	DESV	08	12x10	RH	485	48	1.50	0.50	0.01	20	29

NOTES:
1. Selections are based on TITUS as Manufacturer. Equivalent mfg are PRICE Industries
2. All performance based on tests conducted in accordance with ASHRAE 130-2008 and AHRI 880-2011.
3. All NC levels determined using AHRI 885-2008 Appendix E.
4. All airflow, pressure losses and heating performance values have been corrected for altitude.
5. Units of measure: dimensions (in), airflow (cfm), water flow (gpm), air pressure (in wg), water head losses (ft) and temperatures (degF).
6. 1" Fibre Free insulation
7. Provide 24V control voltage relay.

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REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET
CORPUS CHRISTI , TX 78415

MECHANICAL SCHEDULES

THESE TILGHT NOTICE AND VERIFIES THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS AND THAT ANY PERSON ALTERING THIS DRAWING IS SUBJECT TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337

1/12/2022
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21226

JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CKK
CKD. BY:	SMR

SHEET NUMBER
M201

Jan 12, 2022 – 8:06am
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21226 WORKFORCE SOLUTIONS SEQUENCE OF OPERATION

1. Variable Air Volume - RTU (typical of 3)

Each unit shall have its own controller and shall be programmed for VAV operation as follows.

Run Conditions - Scheduled:
The unit shall run based upon an operator adjustable schedule.

High Static Shutdown:
The unit shall shut down and generate an alarm upon receiving an high static shutdown signal.

Return Air Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a return air smoke detector status.

Supply Air Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a supply air smoke detector status.

Supply Fan:
The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime.

Alarms shall be provided as follows:

- Supply Fan Failure: Commanded on, but the status is off.
- Supply Fan in Hand: Commanded off, but the status is on.
- Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.).

Supply Air Duct Static Pressure Control:
The controller shall measure duct static pressure and modulate the supply fan VFD speed to maintain a duct static pressure setpoint. The speed shall not drop below 30% (adj.). The static pressure setpoint shall be reset based upon the position of the zone dampers, with a goal of reducing the static pressure until at least one zone damper is nearly wide open.

- The initial duct static pressure setpoint shall be 1.5in H2O (adj.).
- If no zone damper is nearly wide open, the setpoint shall incrementally reset down to a minimum of 1.15in H2O (adj.) .
- As one or more dampers nears the wide open position, the setpoint shall incrementally reset up to a maximum of 1.8in H2O (adj.).

Alarms shall be provided as follows:

- High Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) greater than setpoint.
- Low Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) less than setpoint.
- Supply Fan VFD Fault.

Supply Air Temperature Setpoint - Optimized:
The controller shall monitor the supply air temperature and shall maintain a supply air temperature setpoint reset based on zone cooling and heating requirements

The supply air temperature setpoint shall be reset for cooling based on zone cooling requirements as follows:

- The initial supply air temperature setpoint shall be 52°F (adj.).
- As cooling demand increases, the setpoint shall incrementally reset down to a minimum of 48°F (adj.).
- As cooling demand decreases, the setpoint shall incrementally reset up to a maximum of 55°F (adj.) .

If more zones need heating than cooling, then the supply air temperature setpoint shall be reset for heating as follows:

- The initial supply air temperature setpoint shall be 65°F (adj.).
- As heating demand increases, the setpoint shall incrementally reset up to a maximum of 75°F (adj.).
- As heating demand decreases, the setpoint shall incrementally reset down to a minimum of 60°F (adj.).

Cooling Stages:

The controller shall measure the supply air temperature and stage the cooling to maintain its cooling setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.

The cooling shall be enabled whenever:
- Outside air temperature is greater than 60°F (adj.).
- AND the economizer (if present) is disabled or fully open.
- AND the supply fan status is on.
- AND the heating (if present) is not active.

Alarms shall be provided as follows:

High Supply Air Temp: If the supply air temperature is 5°F (adj.) greater than setpoint.

Electric Heating with SCR:
The controller shall measure the supply air temperature and modulate the heating to maintain its heating setpoint.

The heating shall be enabled whenever:

- Outside air temperature is less than 65°F (adj.).
- AND the supply fan status is on.
- AND the cooling (if present) is not active.

Alarms shall be provided as follows:

- Low Supply Air Temp: If the supply air temperature is 5°F (adj.) less than setpoint.

The outside air dampers shall close and the return air damper shall open when the unit is off. If Optimal Start Up is available the mixed air damper shall operate as described in the occupied mode except that the outside air damper shall modulate to fully closed.

Minimum Outside Air Ventilation - Fixed Percentage:
The outside air dampers shall maintain a minimum adjustable position during building occupied hours and be closed during unoccupied hours.

Mixed Air Temperature:
The controller shall monitor the mixed air temperature and use as required for preheating control (if present).

Alarms shall be provided as follows:

- High Mixed Air Temp: If the mixed air temperature is greater than 90°F (adj.).
- Low Mixed Air Temp: If the mixed air temperature is less than 45°F (adj.).

Return Air Temperature:
The controller shall monitor the return air temperature and use as required for setpoint control or economizer control (if present).

Alarms shall be provided as follows:

- High Return Air Temp: If the return air temperature is greater than 90°F (adj.).
- Low Return Air Temp: If the return air temperature is less than 45°F (adj.).

Supply Air Temperature:
The controller shall monitor the supply air temperature.

Alarms shall be provided as follows:

- High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).
- Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.).

2. Variable Air Volume - Terminal Unit (typical)

Run Conditions - Scheduled:
The unit shall run according to a user definable time schedule in the following modes:

- Occupied Mode: The unit shall maintain
  - A 75°F (adj.) cooling setpoint
  - A 70°F (adj.) heating setpoint.
- Unoccupied Mode (night setback): The unit shall maintain
  - A 85°F (adj.) cooling setpoint.
  - A 55°F (adj.) heating setpoint.

Alarms shall be provided as follows:

- High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.).
- Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Zone Setpoint Adjust:
The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.

Zone Optimal Start:
The unit shall use an optimal start algorithm for morning start-up. This algorithm shall minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period.

Zone Unoccupied Override:
A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.

Reversing Variable Volume Terminal Unit - Flow Control:
The unit shall maintain zone setpoints by controlling the airflow through one of the following:

Occupied:

- When zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
- When the zone temperature is between the cooling setpoint and the heating setpoint, the zone damper shall maintain the minimum required zone ventilation (adj.).
- When zone temperature is less than its heating setpoint, the controller shall enable heating to maintain the zone temperature at its heating setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum heating airflow (adj.) until the zone is satisfied.

Unoccupied:

- When the zone is unoccupied the zone damper shall control to its minimum unoccupied airflow (adj.).
- When the zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
- When zone temperature is less than its unoccupied heating setpoint, the controller shall enable heating to maintain the zone temperature at the setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the auxiliary heating airflow (adj.) until the zone is satisfied.

Jan 12, 2022 – 8:06am
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1/12/2022
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REVISIONS		
MARK	DESCRIPTION	DATE

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RENOVATION
4977 AYERS STREET
CORPUS CHRISTI , TX 78415

MECHANICAL SEQUENCE OF OPERATIONS

THIS IS TO GIVE NOTICE AND VERIFIED THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9040 OR WWW.TBAE.STATE.TX.US TO FILE A COMPLAINT. TO FILE A COMPLAINT WITH THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337.

JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CKK
CKD. BY:	SMR

SHEET NUMBER
M301

NOTES:

1. REFER TO ARCHITECTURAL FOR ROOFING & FLASHING DETAIL.
2. ROUTE CHS&R AND HWS&R FROM CEILING CAVITY UP INSIDE WEB, UNLESS SHOWN OTHERWISE.
3. INSTALL CONTROL VALVES INSIDE UNIT VESTIBULE PROVIDED.
4. MINIMUM 3'-0" ABOVE ROOF FOR HOSPITALS ONLY.
5. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVNIZED WITH MALLABLE IRON SCREWED FITTINGS.

1 ROOF MOUNTED AHU DETAIL

NOT TO SCALE — MEAH100.DWG

2 ROOF MTD. REFR. PIPE SUPPORT

NOT TO SCALE — MPRE204.DWG

NOTES:

1. PIPES AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. 2- DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

4 TYP. MEP INSTALLATION DETAIL

NOT TO SCALE — MAGD101.DWG

NOTE: THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

5 RECTANGULAR BRANCH DUCT TAP

NOT TO SCALE — MAGD300.DWG

NOTE:
SEE FLOOR PLAN FOR SIZES

6 RECTANGLUAR TAP TO ROUND TRANSITION

NOT TO SCALE — MAGD302.DWG

NOTE: 1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5 X ("D") MINIMUM 3'-0" AND MAXIMUM 6'-0"
2. TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS

7 SPIN-IN DETAIL

NOT TO SCALE — MAGD301.DWG

8 SIDEWALL SUPPLY REGISTER DETAIL

NOT TO SCALE — MAAD101.DWG

9 OVAL OR ROUND DUCT HANGER

NOT TO SCALE — MAGD103.DWG

10 RETURN AIR BOOT AT GRILLE

NOT TO SCALE — MARA200.DWG

11 RETURN AIR BOOT THRU WALL

NOT TO SCALE — MARA.DWG

NOTE: PROVIDE THIS SUPPORT AT 3'-0" O.C. MAX. & AT EACH CHANGE OF PIPING DIRECTION.

12 REFRIGERANT PIPE HANGER

NOT TO SCALE — MPRE201.DWG

NOTE: CONTRACTOR SHALL SECURE STRUCT. ENGR. APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS TO CONCRETE OR STEEL STRUCTURE.

13 PIPE HANGER DETAIL (1-PIPE)

NOT TO SCALE — MPHS102.DWG

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REVISIONS

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MECHANICAL DETAILS

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1/12/2022
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JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CKK
CKD. BY:	SMR

SHEET NUMBER
M401

Jan 12, 2022 — 8:06am
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N

1 ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION GENERAL NOTES:

A. IT IS THE CONTRACTORS RESPONSIBILTY TO HAVE VERIFIED EXISTING JOB–SITE CONDITIONS DURING THE BIDDING PERIOD SO HE WILL HAVE OBTAINED THE SCOPE OF WORK. THE ELECTRICAL WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARTUS. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.

B. WHEN OULETS 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.

DEMOLITION PLAN KEY NOTES:

1. EXISTING LIGHT FIXTURE ARE TO REMAIN IN PLACE. MAINTAIN EXISTING LIGHT CIRCUITS, REWORK AS REQUIRED. TYPICAL WITHIN ROOM. REFER TO SHEET E101 FOR NEW CIRCUITING CONFIGURATION.
2. EXISTING RECEPTACLES AND/OR DATA IN AREA TO REMAIN IN PLACE AS NOTED. MAINTAIN EXISTING CIRCUITS, REWORK AS REQUIRED. REPLACE BROKEN RECEPTACLES AND ALL FACE PLATES. COORDINATE COLOR WITH ARCHITECT.
3. REMOVE EXISTING LIGHT FIXTURES AS NOTED.
4. EXISTING RECEPTACLES TO BE REMOVED AND RELOCATED BEHIND DRINKING FOUNTAIN APRON. MAINTAIN EXISTING CIRCUIT. COORDINATE EXACT LOCATION AND HEIGHT OF RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH–IN.
5. EXISTING J–BOX FOR EXTERIOR SIGNAGE TO REMAIN.
6. REMOVE EXISTING SWITCH, REFER TO SHEET 101 FOR NEW CIRCUIT CONFIGURATION.
7. REMOVE EXISTING EMERGENCY LIGHT FIXTURES, REWORK AS REQUIRED. REFER TO SHEET 101 FOR ADDITIONAL INFORMATION.
8. EXISTING EMERGENCY LIGHT FIXTURES TO REMAIN IN PLACE.

1/12/2022
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REVISIONS		
MARK	DESCRIPTION	DATE

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ELECTRICAL DEMOLITION PLAN

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS THAT HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS CONTACT THE TBAE AT 512-305-9000 OR VISIT THEIR WEBSITE AT WWW.TBAE.STATE.TX.US TO VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337

JOB NO.	202147
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ISSUE DATE:	1/12/2022
DRN. BY:	CG
CKD. BY:	JAR

SHEET NUMBER
E001

Jan 11, 2022 – 5:27pm
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1 ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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 NATIONAL 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 DETAIL #01/SHEET E701 FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

LIGHTING PLANS KEY NOTES:

1. EXISTING LIGHT FIXTURE ARE TO REMAIN IN PLACE. MAINTAIN EXISTING LIGHT CIRCUITS, REWORK AS REQUIRED. TYPICAL WITHIN ROOM.

2. EXISTING LIGHT SWITCH TO BE REMOVED AND REPLACED WITH NEW SENSOR SWITCH. COORDINATE EXACT LOCATION OF NEW SENSOR SWITCH.

3. EXISTING EXIT SIGN TO BE REMOVED AND REPLACED WITH NEW EXIT SIGN. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E4.1.

4. EXISTING LIGHT FIXTURE TO BE RECIRCUITED TO MDP-4, AND TO BE CONTROLLED BY EXISTING SWITCH.

5. EXISTING EMERGENCY LIGHT FIXTURES TO REMAIN IN PLACE.

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.

OCCUPANCY SENSOR SCHEDULE
(SOME MAY NOT BE USED)

2P	SENSORSWITCH POWER PACK #PP20 2P
PP	SENSORSWITCH POWER PACK #PP20
$oc	SENSORSWITCH #WSX-SA-CBA
$oc2	SENSORSWITCH #WSX-PDT-SA-CBA
$ocF	SENSORSWITCH #WSX-2P-FAN-CBA
$o	0-10V DIMMER SWITCH
$P	SENSORSWITCH #sPODM-SA-CBA
$P2	SENSORSWITCH #sPODM-2P2SA-CBA
$P-D	SENSORSWITCH #sPODM-SA-D-CBA
$P2-D	SENSORSWITCH #sPODM-2P2SA-D-CBA
$P-3W	SENSORSWITCH #sPODM-SA-3X-CBA
$P-3W-D	SENSORSWITCH #sPODM-SA-3X-D-CBA
$P2-3W	SENSORSWITCH #sPODM-2P2SA-3X-CBA
$P2-3W-D	SENSORSWITCH #sPODM-2P2SA-3X-D-CBA
1	SENSORSWITCH #CM9
2	SENSORSWITCH #CM9-PDT
*3	SENSORSWITCH #WV-PDT-16-WVBR
*4	SENSORSWITCH #HWR13-WH
5	SENSORSWITCH #CM10
6	SENSORSWITCH #CM10-PDT

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

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.

1/12/2022
STATE OF TEXAS
JOHN A. RODRIGUEZ III
90273
LICENSED
PROFESSIONAL ENGINEER

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REVISIONS		
MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET
CORPUS CHRISTI , TX 78415

ELECTRICAL LIGHTING PLAN

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9000 OR VISIT OUR WEBSITE AT WWW.TBAE.STATE.TX.US TO REPORT ANY VIOLATIONS.
TBAE-WWW.TBAE.STATE.TX.US-01/2007

JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CG
CKD. BY:	JAR

SHEET NUMBER
E101

Jan 11, 2022 – 5:27pm
21226_ELEC.dwg

1 ELECTRICAL ALTERNATE LIGHTING PLAN

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

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 NATIONAL 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 DETAIL #01/SHEET E701 FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

LIGHTING PLANS KEY NOTES:

1. EXISTING LIGHT FIXTURE ARE TO REMAIN IN PLACE. MAINTAIN EXISTING LIGHT CIRCUITS, REWORK AS REQUIRED. TYPICAL WITHIN ROOM.
2. EXISTING LIGHT SWITCH TO BE REMOVED AND REPLACED WITH NEW SENSOR SWITCH. COORDINATE EXACT LOCATION OF NEW SENSOR SWITCH.
3. EXISTING EXIT SIGN TO BE REMOVED AND REPLACED WITH NEW EXIT SIGN. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E4.1.
4. EXISTING LIGHT FIXTURE TO BE RECIRCUITED TO MDP-4, AND TO BE CONTROLLED BY EXISTING SWITCH.
5. EXISTING EMERGENCY LIGHT FIXTURES TO REMAIN IN PLACE.

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.

OCCUPANCY SENSOR SCHEDULE
(SOME MAY NOT BE USED)

2P	SENSORSWITCH POWER PACK #PP20 2P
PP	SENSORSWITCH POWER PACK #PP20
$oc	SENSORSWITCH #WSX-SA-CBA
$ocz	SENSORSWITCH #WSX-PDT-SA-CBA
$ocF	SENSORSWITCH #WSX-2P-FAN-CBA
$o	0-10V DIMMER SWITCH
$P	SENSORSWITCH #sPODM-SA-CBA
$P2	SENSORSWITCH #sPODM-2P2SA-CBA
$P-D	SENSORSWITCH #sPODM-SA-D-CBA
$P2-D	SENSORSWITCH #sPODM-2P2SA-D-CBA
$P-3W	SENSORSWITCH #sPODM-SA-3X-CBA
$P-3W-D	SENSORSWITCH #sPODM-SA-3X-D-CBA
$P2-3W	SENSORSWITCH #sPODM-2P2SA-3X-CBA
$P2-3W-D	SENSORSWITCH #sPODM-2P2SA-3X-D-CBA
1	SENSORSWITCH #CM9
2	SENSORSWITCH #CM9-PDT
*3	SENSORSWITCH #WV-PDT-16-WVBR
*4	SENSORSWITCH #HWR13-WH
5	SENSORSWITCH #CM10
6	SENSORSWITCH #CM10-PDT

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).
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1/12/2022
STATE OF TEXAS
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REVISIONS		
MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET
CORPUS CHRISTI , TX 78415

ELECTRICAL ALTERNATE LIGHTING PLAN

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9040 OR VISIT THE TBAE BOARD OF ARCHITECTURAL EXAMINERS, 333 GUADALUPE, SUITE 2-350, AUSTIN, TX 78701-3942

JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CG
CKD. BY:	JAR

SHEET NUMBER
E102

Jan 11, 2022 - 5:27pm
21226_ELEC.dwg

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 NATIONAL 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 DETAIL #01/SHEET E701 FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

POWER KEY NOTES:

1. PROVIDE TV BOX, RECEPTACLE, AND DATA FOR TV, COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
2. COORDINATE DATA LOCATION/MOUNTING HEIGHT WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
3. PROVIDE 3/4" THICK FIRE-RESISTANT PLYWOOD PAINTED WITH FIRE RETARDANT PAINT. MOUNTED AT 8' AFF, WITH (2) QUAD RECEPTACLES ON EACH WALL.
4. PROVIDE 30A/2P/2F/N1 DISCONNECT SWITCH.
5. RELOCATE EXISTING TELEPHONE DEMARC TO NEW LOCATION. REWORK ALL COMMUNICATION CABLING. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
6. PROVIDE (2) 2" CONDUIT W/PULL STRING FOR COMMUNICATION. COORDINATE WITH LOCAL SERVICE PROVIDERS.
7. PROVIDE HUBBELL #HBLPP10A POWER POLE, OR EQUAL. FIELD COORDINATE EXACT PLACEMENT. PROVIDE POWER AND DATA AS REQUIRED. COORDINATE WITH ARCHITECT FOR EXACT POWER POLE MODEL.
8. EXISTING RECEPTACLES TO BE REMOVED AND RELOCATED BEHIND DRINKING FOUNTAIN APRON. MAINTAIN EXISTING CIRCUIT. COORDINATE EXACT LOCATION/HEIGHT OF RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH-IN.
9. PROVIDE 120 VOLT FOR MOTORIZED DAMPERS, COORDINATE EXACT LOCATION WITH MECHANICAL PRIOR TO INSTALLATION.
10. CONNECT NEW RECEPTACLE TO NEARBY EXISTING CIRCUIT MDP-10. REWORK AS REQUIRED. COORDINATE EXACT LOCATION/HEIGHT OF RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH IN.
11. PROVIDE 2 GANG FLOOR BOX HUBBELL #B4233 OR EQUIVALENT, COORDINATE EXACT LOCATION WITH ARCHITECT.

RECEPTACLES WITHIN THE BUSINESS OFFICES, CORRIDORS AND WAITING ROOM SHALL BE TAMPER-RESISTANT PER NEC 406.12

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

2 ELECTRICAL DATA/ELEC POWER PLAN
SCALE: 1/4" = 1'-0"

1 ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

N

1/12/2022
STATE OF TEXAS
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78401-0750

REVISIONS		
MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET
CORPUS CHRISTI, TX 78415

ELECTRICAL POWER PLAN

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9040 OR VISIT THE TBAE WEBSITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337.

JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CG
CKD. BY:	JAR

SHEET NUMBER
E201

Jan 11, 2022 – 5:27pm
21226_ELEC.dwg

1 SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

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.

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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 NATIONAL 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 DETAIL #01/SHEET E701 FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

SPECIAL SYSTEMS PLANS KEY NOTES:

1. COORDINATE POWER AND DATA REQUIREMENTS WITH SECURITY COMPANY, PRIOR TO INSTALLATION.
2. CABLE TRAY THROUGH NON RATED WALL. FIELD COORDINATE OPENING IN WALL.
3. PROVIDE J-BOX FOR FUTURE ELECTRONIC DOOR CONTROLS.

clk architects & associates
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Corpus Christi, TX
78401-0750

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WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET
CORPUS CHRISTI , TX 78415

SPECIAL SYSTEMS PLAN

THIS IS TO GIVE NOTICE AND VERIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9040 IF YOU HAVE QUESTIONS OR COMPLAINTS RELATED TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337.

1/12/2022
STATE OF TEXAS
JOHN A. RODRIGUEZ III
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JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CG
CKD. BY:	JAR

SHEET NUMBER
E301

Jan 11, 2022 – 5:27pm
21226_ELEC.dwg

1 ELECTRICAL ROOF PLAN

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

GENERAL NOTES:

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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 NATIONAL 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 DETAIL #01/SHEET E701 FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

ROOF POWER KEY NOTES:

1. EXISTING RTU IN AREA TO REMAIN, MAINTAIN EXISTING CIRCUITS.
2. PROVIDE 30A/2P/N3R/NF DISCONNECT SWITCH. FIELD COORDINATE EXACT PLACEMENT.

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Corpus Christi, TX
78401-0750

REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET
CORPUS CHRISTI , TX 78415

ELECTRICAL ROOF PLAN

THIS IS TO GIVE NOTICE AND VERIFIED THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9040 OR WWW.TBAE.STATE.TX.US IF YOU BELIEVE THIS PLAN IS SUBJECT TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337

1/12/2022
STATE OF TEXAS
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SHEET NUMBER
E401

Jan 11, 2022 – 5:28pm
21226_ELEC.dwg

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER & CATALOG NO.	VOLTAGE	WATTS	LUMENS	TEMP	MOUNTED	DESCRIPTION
A	FINELITE #HP-2-P-D-8-H-840-F-96-120-SC-FC-10%-DTO-FA100-ABL-8H-CBA	277	30	5000	4000K	SUSPENDED	2" ACOUSTIC LIT BAFFLE LIT @ 10' AFF TO BOTTOM OF FIXTURE
AU	FINELITE #HP-2-P-ABU-FA100-8H-CBA	—	—	—	—	SUSPENDED	2" ACOUSTIC LIT BAFFLE UNLIT @ 10' AFF TO BOTTOM OF FIXTURE
A(ALT)	LITHONIA #LL8-6000LM-80CRI-40K-EPD-MIN10-ZT-MVOLT-CBA	MVOLT	50	6000	4000K	SUSPENDED	8' LINEAR LED @ 10' AFF TO BOTTOM OF FIXTURE
A2(ALT)	LITHONIA #LL16-12000LM-80CRI-40K-EPD-MIN10-ZT-MVOLT-CBA	MVOLT	101	12000	4000K	SUSPENDED	16' LINEAR LED @ 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	5000	4000K	RECESSED	2'X4' LED TROFFER 5000 LUMENS
B2X	LITHONIA #2BLT4-48L-ADSM-GZ10-LP840-EL7L	MVOLT	38	5000	4000K	RECESSED	2'X4' LED TROFFER 5000 LUMENS W/ BATTERY PACK
C	LITHONIA #LDN6CYL-40/30-L06-BR-LSS-MVOLT-ACC	MVOLT	29	3000	4000K	SUSPENDED	6" SUSPENDED CYLINDER DOWNLIGHT @ 8'-2" AFF TO BOTTOM OF FIXTURE
CX	LITHONIA #LDN6CYL-40/30-L06-BR-LSS-MVOLT-ACC-EL	MVOLT	29	3000	4000K	SUSPENDED	6" SUSPENDED CYLINDER DOWNLIGHT W/ BATTERY PACK @ 8'-2" AFF TO BOTTOM OF FIXTURE
D	LITHONIA #LDN6-40/20-CBA-L06AR-LSS-MVOLT-GZ10	MVOLT	23	2000	4000K	RECESSED	6" RECESED CAN DOWNLIGHT
DX	LITHONIA #LDN6-40/20-CBA-L06AR-LSS-MVOLT-GZ10-EL	MVOLT	23	2000	4000K	RECESSED	6" RECESED CAN DOWNLIGHT W/ BATTERY PACK
EX	LITHONIA #LHQM-S-W-3-R-LED	MVOLT	—	—	—	SURFACE	EXIT/EMERGENCY LIGHT W/ BATTERY PACK
FX	LITHONIA #2BLT2-20L-ADSM-LP840-EL7L	MVOLT	20	2000	4000K	RECESSED	2'X2' LED TROFFER 2000 LUMENS
H1	FINELITE #HP-2-R-8-S-840-F-96LG-120-SC-FC-10%-DTO-C1	277	15	2688	4000K	RECESSED	2" LINEAR LED 8' LENGTH CONFERENCE ROOM
H2	FINELITE #HP-2-R-4-S-840-F-96LG-120-SC-FC-10%-DTO-SF	277	15	1344	4000K	RECESSED	2" LINEAR LED 4' LENGTH
H3	FINELITE #HP-2-R-8-S-840-F-96LG-120-SC-FC-10%-DTO-SF	277	15	2688	4000K	RECESSED	2" LINEAR LED 8' LENGTH
JX	LITHONIA #CLX-48-4000L-SEF-FDL-40K-80CRI-PS1050-SPD-ZAC120	MVOLT	28	4000	4000K	SUSPENDED	4" LED LINEAR @ 10' AFF TO BOTTOM OF FIXTURE
OEM	LITHONIA #AFF-OEL-CBA-UVOLT-LTP-SDRT-FCT	UVOLT	2.5	—	—	SURFACE	EXTERIOR EMERGENCY LIGHT

NOTE #1 : CBA = COLOR BY ARCHITECT

PANEL ' MDP ' EXISTING

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

CKT #	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	A	B	C	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT #
1	XFMR-MP	18814	PER ONE-LINE	225/3	A			20/1	#12 AWG	3294	NEW LIGHTS	2
3	"	18870	PER ONE-LINE			B		20/1	#12 AWG	3204	SHELL LIGHTS	4
5	"	20324	PER ONE-LINE				C	40/3	#8 AWG	9700	RTU-1	6
7	RTU-2	16000	#4 AWG	60/3	A				#8 AWG	9700	"	8
9	"	16000	#4 AWG			B			#8 AWG	9700	"	10
11	"	16000	#4 AWG				C		#4 AWG	16000	RTU-5	12
13	RTU-4	9700	#8 AWG	40/3	A			60/3	#4 AWG	16000	"	14
15	"	9700	#8 AWG			B			#4 AWG	16000	"	16
17	"	9700	#8 AWG				C		#8 AWG	9700	RTU-9	18
19	RTU-6	9700	#8 AWG	40/3	A			40/3	#8 AWG	9700	"	20
21	"	9700	#8 AWG			B			#8 AWG	9700	"	22
23	"	9700	#8 AWG				C		#6 AWG	12800	RTU-7	24
25	RTU-8	16000	#4 AWG	60/3	A			50/3	#6 AWG	12800	"	26
27	"	16000	#4 AWG			B			#6 AWG	12800	"	28
29	"	16000	#4 AWG				C		#4 AWG	16000	RTU-10	30
31	RTU-3	16000	#4 AWG	60/3	A			60/3	#4 AWG	16000	"	32
33	"	16000	#4 AWG			B			#4 AWG	16000	"	34
35	"	16000	#4 AWG				C	20/1	#12 AWG	500	RR-LIGHTS	36
37	SPACE				A			20/1	#12 AWG	1200	FRONT SIGN	38
39	SPACE					B					SPACE	40
41	SPACE						C				SPACE	42

CONNECTED LOAD = 461006 VA PHASE A = 154908 VA PHASE B = 153674 VA PHASE C = 152424 VA

PANEL ' MP ' EXISTING

400 AMP, M.C.B, 120/208 V, 3ø, 4W, S/N, SURFACE, NEMA 1, 10 KAIC

CKT #	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	A	B	C	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT #
1	FRONTWALL RECEPT	720	#12 AWG	20/1	A			20/1	#12 AWG	720	ENTRANCE RECEPT	2
3	COLUMN RECEPT	720	#12 AWG	20/1		B		20/1	#12 AWG	720	RECEPT FRONT RR.	4
5	COLUMN RECEPT	720	#12 AWG	20/1			C	20/1	#12 AWG	720	BACKWALL RECEPT	6
7	COLUMN RECEPT	720	#12 AWG	20/1	A			20/1	#12 AWG	720	RECEPT STORAGE ROOM	8
9	PHONE BOARD	360	#12 AWG	20/1		B		20/1	#12 AWG	1080	EDF	10
11	RECEPT	1080	#12 AWG	20/1			C	20/1	#12 AWG	1080	ELEC. RM. RECEPT	12
13	RECEPT	1080	#12 AWG	20/1	A			20/1	#12 AWG	720	RECEPT	14
15	RECEPT	1080	#12 AWG	20/1		B		20/1	#12 AWG	720	RECEPT	16
17	RECEPT	1080	#12 AWG	20/1			C	20/2	#12 AWG	750	UH-1 RISER RM.	18
19	SPARE			20/1	A				#12 AWG	750	"	20
21	FIRE SPRINKLE	500	#12 AWG	20/1		B		20/1	#12 AWG	1500	W/H	22
23	ROOF GFCI	180	#12 AWG	20/1			C		PER ONE-LINE	11834	PANEL "A"	24
25	ROOF GFCI	180	#12 AWG	20/1	A			150/3	PER ONE-LINE	13204	"	26
27	PANEL "MP2"	4320	PER ONE-LINE	60/2		B			PER ONE-LINE	7870	"	28
29	"	2880	PER ONE-LINE				C				SPACE	30

CONNECTED LOAD = 58008 VA PHASE A = 18814 VA PHASE B = 18870 VA PHASE C = 20324 VA

PANEL ' MP2 ' EXISTING

60 AMP, M.L.O, 120/240 V, 1ø, 3W, S/N, SURFACE, NEMA 1, 10 KAIC

CKT #	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	A	B	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT #
1	STORAGE RECEPTACLES	720	#12 AWG	20/1	A		20/1	#12 AWG	720	RECEPTACLES ENTRANCE	2
3	STORAGE RECEPTACLES	720	#12 AWG	20/1		B	20/1	#12 AWG	720	RECEPTACLES COUNTER	4
5	TV RECEPTACLES	720	#12 AWG	20/1	A		20/1	#12 AWG	720	SNACK RECEPTACLES	6
7	RECEPTACLES MAIN COUNTER	720	#12 AWG	20/1		B	20/1	#12 AWG	720	SNACK RECEPTACLES	8
9	RECEPTACLES MAIN COUNTER	720	#12 AWG	20/1	A		20/1	#12 AWG	720	SNACK RECEPTACLES	10
11	SPACE					B				SPACE	12
13	SPACE				A					SPACE	14
15	SPACE					B				SPACE	16
17	SPACE				A					SPACE	18
19	SPACE					B				SPACE	20
21	SPACE				A					SPACE	22
23	SPACE					B				SPACE	24

CONNECTED LOAD = 7200 VA PHASE A = 4320 VA PHASE B = 2880 VA

ESTIMATED ELECTRICAL LOAD

277/480V, 3ø, 4W

DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
LIGHTING	8198	125%	10248
RECEPTACLES	41680	NEC 220-44	25840
KITCHEN EQUIPMENT	7600	NEC 220-56	4940
H.V.A.C.	394800	100%	394800
LARGEST MOTOR	0	125%	0
MOTOR LOAD	0	100%	0
MISC. SINGLE PHASE LOADS	13048	100%	13048
TOTAL VOLT-AMPERS	465326		448876
448876 VA / (480*1.732)	=	539.9	AMPS

PANEL ' A ' NEW

125 AMP, M.C.B, 120/208 V, 3ø, 4W, S/N, SURFACE, NEMA 1, 10 KAIC

CKT #	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	A	B	C	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT #
1	TWH	3500	#8 AWG	35/1	A			20/1	#12 AWG	1080	POWER POLE	2
3	TWH	3500	#8 AWG	35/1		B		20/1	#12 AWG	900	OFFICE 106 RECEPT	4
5	STAFF BREAK TV RECEPT	720	#12 AWG	20/1			C	20/1	#12 AWG	540	CHILDCARE TV RECEPT	6
7	POWER POLE	720	#12 AWG	20/1	A			20/1	#12 AWG	1080	CHILDCARE RECEPT	8
9	POWER POLE	1080	#12 AWG	20/1		B		20/1	#12 AWG	360	COPY 107 RECEPT	10
11	COPY 105 RECEPT	360	#12 AWG	20/1			C	20/1	#12 AWG	900	COFFEE 111 RECEPT	12
13	BUISNESS SOL. RECEPT	360	#12 AWG	20/1	A			20/1	#12 AWG	720	LARGE CONF. RECEPT	14
15	HUDDLE ROOM	1080	#12 AWG	20/1		B		20/1	#12 AWG	1200	FUTURE MICROWAVE	16
17	COPY 109 RECEPT	360	#12 AWG	20/1			C	20/1	#12 AWG	1200	MICROWAVE	18
19	ROOF RECEPT	180	#12 AWG	20/1	A			20/1	#12 AWG	1200	MICROWAVE	20
21	STAFF BREAK RECEPT	720	#12 AWG	20/1		B		20/1	#12 AWG	1000	FUTURE REFRIDGE	22
23	COUNTER RECEPT	360	#12 AWG	20/1			C	20/1	#12 AWG	1000	FUTURE REFRIDGE	24
25	DATA/ELEC RECEPT	720	#12 AWG	20/1	A			30/2	#10 AWG	1144	CU-1	26
27	DATA/ELEC RECEPT	720	#12 AWG	20/1		B			#10 AWG	1144	"	28
29	DATA/ELEC RECEPT	720	#12 AWG	20/1			C	20/2	#12 AWG	130	AHU-1	30
31	REFRIDGE	1000	#12 AWG	20/1	A				#12 AWG	130	"	32
33	REFRIDGE	1000	#12 AWG	20/1		B		20/1	#12 AWG	500	FACP	34
35	MOTOR DAMPERS	500	#12 AWG	20/1			C	20/1	#12 AWG	1080	LARGE CONF. RECEPT	36
37					A							38
39						B						40
41							C					42

CONNECTED LOAD = 32908 VA PHASE A = 11834 VA PHASE B = 13204 VA PHASE C = 7870 VA

1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NTS

UPON FINAL ROOM NAMING, CONTRACTOR SHALL COMPLETE PANEL DIRECTORIES WITH SPECIFIC SPACE DESCRIPTIONS AS MUCH AS PRACTICAL. COPYING PANEL SCHEDULES FROM DRAWINGS IS NOT ACCEPTABLE.

1/12/2022
STATE OF TEXAS
JOHN A. RODRIGUEZ III
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LICENSED PROFESSIONAL ENGINEER

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REVISIONS

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
RENOVATION
4977 AYERS STREET
CORPUS CHRISTI , TX 78415

PANELS, SCHEDULES & ONE-LINE

THIS IS TO GIVE NOTICE AND VERIFIED THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS HAS NO JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9040 IF YOU ARE INTERESTED IN SUBMITTING A COMPLAINT TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, TO: BOX 12337, AUSTIN, TEXAS 78711-2337

JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CG
CKD. BY:	JAR

SHEET NUMBER
E501

Jan 11, 2022 – 5:28pm
21226_ELEC.dwg

ELECTRICAL LEGEND

NOTE: NOT ALL SYMBOLS MAY APPLY TO THIS JOB!

SYMBOL	DESCRIPTION
B–2	HOMERUN TO CIRCUIT AND PANEL INDICATED
	NEUTRAL CONDUCTOR
	HOT CONDUCTOR
	GROUNDING CONDUCTOR
	TRAVELER
	SWITCH LEG
$	TOGGLE SWITCH – 120/277V, 20A
$3	THREEWAY SWITCH – 120/277V, 20A
$4	FOURWAY SWITCH – 120/277V, 20A
$D	DIMMER SWITCH – REFER TO LTG CONTROL FOR ADDITIONAL INFORMATION
$K	KEY SWITCH – 120/277V, 20A
$M	MOTOR RATED SWITCH
	REFER TO LIGHTING PLAN FOR ADDITIONAL LOW VOLTAGE LIGHTING CONTROLS SYMBOLS
	DUPLEX RECEPTACLE – 125V,20A,1P
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE 125V,20A,1P
	ISOLATED GROUND RECEPTACLE – 125V,20A,1P
	SINGLE RECEPTACLE – 250V, AMPS PER PANEL SCHEDULE
	QUADRAPLEX RECEPTACLE – 125V,20A,1P
	ISOLATED GROUND QUADRAPLEX RECEPTACLE – 125V,20A,1P
	SINGLE RECEPTACLE – 125V,20A,1P
	DUPLEX RECEPTACLE – 125V,20A,1P (FLOOR MOUNTED)
J	JUNCTION BOX, SIZED PER N.E.C.
	COMBO RECEPT. & USB CHARGING DEVICE HUBBELL #USB20AC5
	TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
	DATA/TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
	DATA OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
TV	TELEVISION OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
S	SPEAKER
	PUSHBUTTON
HB	HOLD UP BUTTON
AC	ABOVE COUNTER
WP	WEATHER PROOF
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
E.C.	ELECTRICAL CONTRACTOR
NL	NIGHT LIGHT – ON 24 HOURS
RCP	CIRCULATION PUMP
	120V, 1P EQUIPMENT CONNECTION
	240V, 1P EQUIPMENT CONNECTION
	240V, 3P EQUIPMENT CONNECTION
	208V, 1P EQUIPMENT CONNECTION
	208V, 3P EQUIPMENT CONNECTION
	277V, 1P EQUIPMENT CONNECTION
	480V, 3P EQUIPMENT CONNECTION
	480V, 1P EQUIPMENT CONNECTION
	DISCONNECT SWITCH – SIZE AND POLE AS NOTED
	COMBINATION STARTER/DISCONNECT SWITCH
	STARTER
SM	MANUAL MOTOR STARTER
	PANELBOARD AS SPECIFIED
	EXHAUST FAN
H	FIRE ALARM AUDIO HORN
F	FIRE ALARM PULL STATION
F	FIRE ALARM AUDIO/VISUAL SIGNAL
V	FIRE ALARM ADA VISUAL SIGNAL
R	FIRE ALARM SHUT DOWN RELAY
S	SMOKE DETECTOR
H	HEAT DETECTOR
S D	DUCT MTD. SMOKE DETECTOR
SEC	SECURITY PANEL
GB	GLASS BREAK
DC	DOOR CONTACTOR ROUGH–IN WITH CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING.
KP	KEY PAD
AAN	FIRE ALARM ANNUCIATOR
FACP	FIRE ALARM CONTROL PANEL
	CAMERA
FS	FLOW SWITCH
TS	TAMPER SWITCH
PB	PUSH–TO–EXIT BUTTON
A	ANSUL SUPPRESSION SYSTEM
DR	FIRE ALARM DOOR RELEASE
EC	EMPLOYEE CLOCK IN
KP	KEYPAD (ROUGH–IN W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING)
CR	CARD READER (ROUGH–IN W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING)
ES	ELECTRONIC STRIKE (ACCESS CONTROL)
MAG	MAGNETIC LOCK (ACCESS CONTROL)
EH	ELECTRIFIED HINGE (ACCESS CONTROL)

ELECTRICAL SYSTEM SECTION 16000

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.

WORK UNDER THIS CONTRACT INCLUDES MODIFICATIONS TO ANY EXISTING ELECTRICAL SYSTEM AND ALSO PROVIDING NEW MATERIALS, DEVICES, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING 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 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 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. 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 PLANS.

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.

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 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.

VERIFY VOLTAGE DROPS, A.I.C. RATINGS FOR ALL EQUIPMENT CONNECTED, AND VERIFY SIZE OF ALL CIRCUIT BREAKERS, CONDUIT, ETC. PRIOR TO INSTALLATION.

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA, NRCA STANDARDS, AS WELL AS, ALL REQUIREMENTS 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.

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 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 APPLICABLE U.L. AND NEMA STANDARDS. DO NOT MOUNT DISCONNECT SWITCHES TO ANY HVAC UNIT. LOCATION 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 STANDARDS.

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 USED AS A SWITCH FOR 120 VOLT LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD". BREAKERS USED FOR PROTECTING HVAC EQUIPMENT SHALL BE RATED 'HACR'.

SURGE PROTECTION DEVICE (SPD): SPDS SHALL BE UL1449 4TH EDITION LISTED AND MANUFACTURED BY THOR 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 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 BRANCH PANELS. SPDs SHALL BE EXTERNAL TO EQUIPMENT UNLESS NOTED OTHERWISE ON DRAWING.

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% CONDUCTIVE COPPER, ALUMINUM, OR COPPER–CLAD ALUMINUM. FRONTS SHALL BE ONE PIECE CODE GAGE FURNITURE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS UNLESS OTHERWISE INDICATED. PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH CABINET.

GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED 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 CONDUIT SHALL INCLUDE A GROUND WIRE SIZE IN ACCORDANCE WITH NEC TABLE 250.

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 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 FLEXIBLE CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLINGS 2" AND SMALLER SHALL BE COMPRESSION TYPE. CLAMP CONDUIT TO BOXES WITH BUSSING INSIDE AND LOCKNUT OUTSIDE.

1. RIGID STEEL CONDUIT: ANSI C80.1
2. INTERMEDIATE STEEL CONDUIT: UL 1242
3. ELECTRICAL METALLIC TUBING AND FITTINGS: ANSI C80.3
4. FLEXIBLE METAL CONDUIT: ZINC COATED STEEL.
5. LIQUID–TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS: UL 360. FITTINGS TO BE SPECIFICALLY 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.

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. ALL EQUIPMENT TO BE PROVIDED WITH CU/AL 75° DEGREE C. TERMINAL LUGS. CONDUCTORS WITH "THHN" 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:

BRANCH CIRCUITS	THHN, THWN2
FEEDERS	THWN2
SERVICE ENTRANCE	THWN2, XHHW, XHHW2

DEVICES & COVERPLATES:
PUBLIC AREAS:
ALL DEVICES AND COVERPLATES SHALL BE STAINLESS STEEL. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20 AMP, NEMA 5–20R, SIDE OR BACK WIRED.

SINGLE RECEPTACLE: 15 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–15R. HUBBELL #5251–#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).

DUPLEX RECEPTACLE: 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R. HUBBELL #5342–#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).

GROUND–FAULT INTERRUPTER RECEPTACLE: 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R, FEED–THRU TYPE CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES. UL RATED CLASS A, GROUP 1, SOLID STATE GROUND–FAULT SENSING LEVEL WITH 5 ma GROUND–FAULT TRIP LEVEL. HUBBELL #1G5362#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).

WEATHERPROOF RECEPTACLE: SHALL BE A GROUND–FAULT INTERRUPTER WITH STAINLESS STEEL, GASKETED LIDS AND PLATE. PLATE TO CONSIST OF TWO SPRING LOADED LIDS HINGED AT TOP.

PLUG FILLERS: PROVIDE FLUSH RECEPTACLE COVERS AT ALL DUPLEX RECEPTACLES IN PUBLIC AREAS. COLOR OF FILLERS TO MATCH COLOR OF RECEPTACLE AND COVERPLATE.

LIGHTING FIXTURES: ALL LIGHTING FIXTURES AND ASSOCIATED LAMPS AND BALLASTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

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 EXCEEDS 100 FEET.

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 OPENINGS, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC. ARE AVOIDED.

INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90° DEGREE 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 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 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.

ADJUSTING AND TESTING: ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. COMPLETED WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.

TOUCH–UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW, TO PRESENT A "NEW" APPEARANCE.

ALL CONDUIT AND JUNCTION BOXES LOCATED WITHIN AN EXPOSED STRUCTURAL SYSTEM SHALL BE PAINTED TO MATCH THE COLOR OF THE STRUCTURE (COLOR TO BE VERIFIED WITH ARCHITECT).

ALL LAMPS, FIXTURES AND ASSOCIATED HOUSINGS, LENSES, AND LOUVERS SHALL BE CLEANED PRIOR TO OWNER ACCEPTANCE.

TOGGLE TYPE SWITCH: 20 AMP, 120/277 VOLT AC SINGLE–POLE, QUIET TYPE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE–WIRED SCREW TERMINALS. HUBBELL #HBL 1221I.
A. 2–POLE, 3–WAY & 4–WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE–POLE.
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.
ELECTRICAL EQUIPMENT IDENTIFICATION:
A. 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 ENGRAVER'S STYLE LETTERS. COLOR SHALL BE BLACK WITH WHITE LETTERING. NAMEPLATE SHALL BE PUNCHED FOR MECHANICAL FASTENING WITH SELF–TAPPING STAINLESS STEEL SCREWS, UNLESS ADHESIVE MOUNTING IS NECESSARY DUE TO SUBSTRATE MATERIAL.
B. UNDERGROUND–TYPE PLASTIC LINE MARKER: SHALL BE PERMANENT, BRIGHT COLORED, CONTINUOUS–PRINTED PLASTIC TAPE, INTENDED FOR DIRECT BURIAL SERVICE, NOT LESS THAN 6" WIDE x 4 MILS THICK. PROVIDE TAPE WITH WORDED PRINT WHICH MOST ACCURATELY DESCRIBES THE TYPE OF SERVICE FOR BURIED CABLE.
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–ADHESIVE COVER FLAP; NUMBERED TO SHOW CIRCUIT IDENTIFICATION.

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 SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.
3. VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO COMMENCING ANY WORK.
4. ALL EQUIPMENT (RECEPTACLES, DISC. SWITCHES, ETC.) SHALL BE WEATHERPROOF.
5. ALL FUSES FOR HVAC UNITS SHALL BE SIZED AS REQUIRED BY MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITING, TIME DELAY BUSSMAN FRN–R OR EQUAL BY GOULD SHAWMUT.
6. ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
7. 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.
8. 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.
9. ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

LIGHTING CONTROL NARRATIVE:

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

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

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

(A) OCCUPANT SENSOR CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.1
(B) TIME SWITCH CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.2
(C) DAYLIGHT RESPONSIVE CONTROLS, WHERE APPLICABLE C405.2.3
(D) SPECIFIC APPLICATION CONTROLS, WHERE APPLICABLE C405.2.4 (DISPLAY LIGHTING, ETC.)
(E) EXTERIOR LIGHTING CONTROLS, WHERE APPLICABLE C405.2.5

1/12/2022
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ELECTRICAL SPECIFICATIONS

THIS IS TO GIVE NOTICE AND VERIFIED THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS JURISDICTION OVER THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS. CONTACT THE TBAE AT 512-305-9040 OR VISIT THEIR WEBSITE AT WWW.TBAE.STATE.TX.US TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337

JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	CG
CKD. BY:	JAR

SHEET NUMBER
E601

Jan 11, 2022 – 5:28pm
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1 TYPICAL DEVICE ELEVATIONS (UNLESS NOTED OTHERWISE)
NOT TO SCALE

2 EMERGENCY BALLAST WIRING
NOT TO SCALE

3 DISCONNECT MOUNTING DETAIL
NOT TO SCALE

4 DUAL RELAY WIRING DIAGRAM
NOT TO SCALE

5 SINGLE RELAY WIRING DIAGRAM
NOT TO SCALE

6 1 AND 2 HR. GYPSUM/WALLBOARD PIPE PENETRATION
NOT TO SCALE

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PLUMBING LEGEND

DISREGARD LEGEND ITEMS NOT INDICATED ON DRAWINGS

SYMBOL	DESCRIPTION	ABBR.
	SOIL OR WASTE PIPING B.G.	WST
	SOIL OR WASTE PIPING A.G.	WST
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
	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
	PRESSURE RELIEF VALVE	T&P
	STRAINER	STR
	UNION	UN
	THERMOMETER WELL	TW
	PRESSURE GAUGE	PG
	THERMOMETER	THRM
D	CONDENSATE OR INDIRECT DRAIN	D
	BRANCH CONNECTION, TOP	--
	BRANCH CONNECTION, BOTTOM	--
	ELBOW UP	--
	ELBOW DOWN	--
	FLOOR CLEANOUT (INTERIOR)	FCO
	CLEANOUT AT GRADE (EXTERIOR)	COG
	WALL CLEANOUT	WCO
	FLOOR DRAIN	FD
	FLOOR SINK	FS
	HOSE BIBB	HB
	WALL HYDRANT	WH
	NEW TO EXISTING PIPE CONNECTION	--
P/X	PLUMBING RISER IDENTIFICATION	P/X
DS/X	DOWNSPOUT RISER IDENTIFICATION	DS/X
F/X	FIRE RISER IDENTIFICATION	F/X
	ABBREVIATIONS	ABBR.
--	ABOVE FINISHED FLOOR	AFF
--	ACCESS PANEL	AP
--	BELOW FINISHED FLOOR	BFF
--	BOTTOM OF PIPE	BOP
--	INDIRECT DRAIN	D
--	EXISTING TO REMAIN	(E)
--	EXISTING TO BE DEMOLISHED	(D)
--	FINISHED	FIN
--	FLOOR	FLR
--	INVERT ELEVATION	INV. EL.
--	NORMALLY CLOSED	NC
--	SOFT WATER	SW
--	TRAP PRIMER	TP
--	TYPICAL	TYP
--	VENT THRU ROOF	VTR

NOT ALL SYMBOLS MAY BE USED

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.
2. REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE FOR THIS FIXTURE.
4. REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
5. 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.
7. 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 SURFACES 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.
20. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL STATE AND LOCAL CODES.
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 UNION END.

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 SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.
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.
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

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 EXECUTION OF THE WORK OF THIS SECTION.

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.).

AND/OR

THE HOT WATER HEATING SYSTEM SHALL BE BY WATER HEATER WITH A MAXIMUM OF 6'-0" OF 1/4" TUBING, 3'-0" OF 3/8" TUBING TO LAVATORIES AND 43'-0" OF 1/2" TUBING, 21'-0" OF 3/4" TUBING TO ALL 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 INSULATION (inch)

	NORMINAL PIPE DIA.	
FLUID	< 1.5"	≥ 1.5"
STEAM	1-1/2	3-1/2
HOT WATER	1	1-1/2
CHILL WATER or REFRIGERANT	1	1

MINIMUM DUCT INSULATION (R)

UNCONDITIONED SPACE	≥ 5
OUTSIDE BLDG. ENVELOPE	≥ 8

EXCEPTIONS:
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

MARK	DESCRIPTION	DATE

WORKFORCE SOLUTIONS
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4977 AYERS STREET
CORPUS CHRISTI , TX 78415

Plumbing Specifications

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1/12/2022
STATE OF TEXAS
SEAN M. RODRIGUEZ
96478
LICENSED PROFESSIONAL ARCHITECT

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Texas Firm Registration No. F-005318

21226

JOB NO.	202147
PHASE:	FINAL
ISSUE DATE:	1/12/2022
DRN. BY:	KMS
CKD. BY:	SMR

SHEET NUMBER
P001

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1 P100 PLUMBING FLOOR PLAN

SCALE: 3/32" = 1'-0"

GENERAL PLUMBING NOTES:

1. 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.
2. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
4. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
5. IF INCOMING WATER PRESSURE IS ABOVE 80 PSI, INSTALL A PRESSURE REDUCING VALVE.
6. REMOVE AND CAP ABOVE CEILING LEVEL ALL DOMESTIC WATER AND VENT PIPING LOCATED IN WALLS THAT ARE TO BE DEMOLISH.

PLUMBING KEYED NOTES

1. REMOVE EXISTING LAVATORY FAUCET AND REPLACE WITH NEW FAUCET AS SCHEDULED. EXISTING CHINA TO REMAIN.
2. REMOVE EXISTING WATER SUPPLY, VENT, AND DRAIN PIPING ON THIS WALL AND CAP IN WALL.
3. INSTALL NEW FIXTURE AS SCHEDULED.
4. (E)2"CW – RAISE CW LINE AS HIGH AS POSSIBLE AND RECONNECT TO PIPING TO RESTROOM.
5. ROUTE NEW 4"SS TO NEW FIXTURES AND CONNECT TO EXISTING EXTERIOR SANITARY.
6. STUB OUT WITH 4"SS AND CAP FOR FUTURE RESTROOMS.
7. VALVE AND CAP 2"CW LINE FOR FUTURE RESTROOMS.
8. REMOVE EXISTING DRINKING FOUNTAINS FOR ELECTRICAL OUTLET RELOCATIONS. REINSTALL DRINKING FOUNTAINS IN EXISTING LOCATIONS.
9. ROUTE VENT THRU ROOF 10'–0" MINUMUM FROM ANY ROOF TOP UNIT AIR INTAKE.

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Plumbing Floor Plan

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1/12/2022
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PLUMBING FIXTURE UNITS

FIXTURE	QTY.	DRAINAGE: TRAP SIZE	DRAINAGE: DFU EA	DRAINAGE: SDFU	WATER SUPPLY: WSFU EA	WATER SUPPLY: TOT. WSFU	WATER SUPPLY: CW WSFU	WATER SUPPLY: HW WSFU	WATER SUPPLY: PEAK GPM
WATER CLOSET – FV	12	–	4	48	10	120	120	–	25.00
WATER CLOSET – TANK	0	–	4	0	5	0	0	–	1.60
LAVATORY	6	1 1/4"	1	6	2	12	9.0	9.0	0.40
SERVICE SINK	1	2"	2	2	3	3	2.25	2.25	3.00
DRINKING FOUNTAIN	2	1 1/4"	0.50	1.00	0.25	0.50	0.50	–	0.75
URINAL	3	–	2	6	5	15	15	–	12.00
SINK	2	1 1/2"	2	4	3	6	4	4	1.75
2" TRAP	0	2"	3	0					
3" TRAP	0	3"	5	0					
4" TRAP	0	4"	6	0					
TOTAL FU				67		157	151	15	
TOTAL GPM				34		81	79	31	
PIPE SIZE				4"		2"	2"	1.5"	

PLUMBING EQUIPMENT SCHEDULE

SYMB.	PLAN MARK	MINIMUM ROUGH–IN SIZES: WST & VENT	DRAIN	CW	HW	DESCRIPTION
	TANKLESS WATER HEATER TWH (SINGLE LAVATORY)	----	----	----	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.
	DOUBLE CLEANOUT DCO	4"	----	----	----	----	WADE 8000–12 **(MIFAB C1100–4–R–P)(ZURN Z1400)(SMITH 4240)(JOSAM 55000–5)** EXTERIOR CLEANOUT: ADJUSTABLE C.I. CLEANOUT AND HOUSING, ABS TAPER PLUG, SPECIAL DUTY ROUND SCORIATED DUCTILE IRON TOP, NON–TILT TRACTOR COVER, ANCHOR IN CONCRETE PAD 42"x18"x6" DEEP, FLUSH WITH GRADE OR SET FLUSH WITH SIDEWALK.
	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.
	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.
	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.
	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.

PLUMBING FIXTURE SCHEDULE

SYMB.	PLAN MARK	MINIMUM ROUGH–IN SIZES: WST & VENT	DRAIN	CW	HW	DESCRIPTION
	LAVATORY LV1	2"	1–1/2"	1–1/4"	1/2"	1/2"	EXISTING LAVATORY: WATTS P1070 FAUCET: C.P. BRASS BODY, 0.5 AERATOR, DECK PLATE, ASSE 1070, SET AT 105°F; SUPPLY: C.P. ANGLE SUPPLIES W/STOPS, 3/8" FLEX TUBE RISERS, ESCUTCHEONS.
	SINK SK1 (SINGLE COMPARTMENT)	2"	1–1/2"	1–1/2"	1/2"	1/2"	ELKAY BLR1560 "LUSTERTONE" SINK: TAS COMPLIANT, 18 GA. TYPE 302 S.S., SATIN FINISH, SELF RIMMING, FITTING DECK, BACK LEDGE, SOUND DAMPENER, 2–HOLE 4" CENTER, 15"x15"x6"; DELTA 710LF–HDF FAUCET: C.P. BRASS, GOOSENECK, SINGLE LEVER HANDLE, 1.5 GPM AERATOR; WASTE: LK–36 2" BASKET STRAINER, 1–1/2" OFFSET TAILPIECE; 1–1/2" 17GA. C.P. BRASS ADJ. "P"–TRAP W/C.O., ESCUTCHEON; SUPPLY: C.P. ANGLE SUPPLIES WITH STOPS, 1/2" FLEX TUBE RISERS, ESCUTCHEONS; TRUEBRO 103–EZ INSULATION KIT FOR TAS/ADA.
	SINK SK2 (DOUBLE COMPARTMENT)	2"	1–1/2"	1–1/2"	1/2"	1/2"	ELKAY LRAD332160 "LUSTERTONE" SINK: TAS COMPLIANT, TWO–COMPARTMENT, 18 GA. TYPE 302 S.S., SATIN FINISH, SELF RIMMING, FITTING DECK, BACK LEDGE, SOUND DAMPENER, 4–HOLE, 33"X21"X6", REAR CENTER DRAINS; T&S BRASS B–2347–03 FAUCET: C.P. BRASS, 8" SWIVEL GOOSENECK, DECK MOUNT, LEVER HANDLES, SPRING CHECKS, 2.2 GPM VR AERATOR, 8" CENTER, 4' SIDESPRAY; WASTE: (2) LK–35 3–1/2" S.S. DRAIN BODY, BASKET STRAINER, 1–1/2" 17GA. C.P. BRASS TAILPIECE, 1–1/2" 17GA. C.P. BRASS CONTINUOUS WASTE WITH TEE CONNECTION, 1–1/2" 17GA. C.P. BRASS ADJ. "P"–TRAP W/C.O. AND C.P. BRASS NUTS, ESCUTCHEON; SUPPLY: C.P. ANGLE SUPPLIES WITH STOPS, 1/2" FLEX TUBE RISERS, ESCUTCHEONS; TRUEBRO 102–EZ AND 107EZ INSULATION KIT FOR TAS/ADA.

FIRE PROTECTION DESIGN CRITERIA

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE.

BUILDING USE GROUP: E – EDUCATIONAL

BUILDING CONSTRUCTION: FULLY SPRINKLED.

BUILDING CLASSIFICATION: LIGHT HAZARD

DENSITY/AREA DESIGN: 0.10 GPM/SQ.FT. @ 1500 SQ.FT. PROVIDE A 10 PSI SAFETY FACTOR FOR HYDRAULIC CALCULATIONS.

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: CONTACT WATER UTILITY SERVING BUILDING FOR LATEST PRESSURE READING IN AREA.

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, NFPA 14, NFPA 20, ALL STATE/LOCAL CODES, AND OWNER'S INSURANCE COMPANY.

NOTE: FINAL FIRE PROTECTION DESIGN CRITERIA SHALL BE DETERMINED BY THE FIRE PROTECTION CONTRACTOR. SUBMIT 4 SETS OF SHOP DRAWINGS AND CALCULATIONS. ONE TO THE ENGINEER FOR REVIEW, ONE FOR SITE, ONE FOR THE OWNER, AND ONE TO THE FIRE MARSHALL FOR APPROVAL.

PLUMBING PIPE MATERIALS SCHEDULE

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

*SCHEDULE 40 DWV PVC SHALL NOT BE USED IN RETURN AIR PLENUMS. WHERE CEILING PLENUMS ARE USED FOR RETURN AIR, CONTRACTOR SHALL ONLY USE BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE.

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD	SIOUX CHEIF MODEL No. *
A	1/2"	1–11	652–A
B	3/4"	12–32	653–B
C	1"	33–60	654–C
D	1–1/4"	61–113	655–D
E	1–1/2"	114–154	656–E
F	2"	154–330	657–F

FIXTURE UNIT TABULATION: FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	––
TANK WATER CLOSET	5	––
URINAL	5	––
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O–RING CONSTRUCTION, HAVING PDI #WH– 201, ASSE #1010 AND ANSI #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.

4 WATER HAMMER ARRESTOR
NOT TO SCALE PPTP100

5 PIPE HANGER FOR INSUL. PIPE
NOT TO SCALE PWHE203

6 UNINSULATED PIPE HANGER
NOT TO SCALE PWHE203

7 VENT THRU ROOF
NOT TO SCALE PPWV103

8 TYPICAL INSTANT WATER HEATER DETAIL
NOT TO SCALE

UNDERGROUND INSTALLATION OF PLASTIC PIPE

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.
2. 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 OVER LOW 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 DONE BY HAND.
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 TO CONSOLIDATE THE FINAL BACKFILL.
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 EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

1 UNDERGROUND INSTALLATION DETAIL OF PLASTIC PIPING SYSTEMS
NOT TO SCALE

UNDERGROUND INSTALLATION

2 TWO-WAY CLEANOUT DETAIL
NOT TO SCALE PPWV100

3 CLEANOUT DETAIL
NOT TO SCALE PPWV100

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