



ADDENDUM No. 1

July 7th, 2020

To

Drawings and Specifications

Dated June 23rd, 2020

For

Leon Valley Community Center Upgrades

Leon Valley, Texas

All contractors, subcontractors, material suppliers, and other parties shall be responsible for reading the entire addendum. All provisions of the drawings and specifications not specifically affected by this addendum shall remain unchanged. The failure to list an item in all affected references of this addendum does not relieve any party from performing as per instructions, providing that the information is set forth one time in any one place in this addendum. The addendum is generally set forth by sections or items of work for convenience only. The documents of this addendum shall be attached to and become part of the Contract Documents for this project.

DRAWING CHANGES

1. Sheet A1.2 – Floor Plan & Enlarged Plans:

- a. REMOVE existing room currently named Foyer 103.
- b. RELOCATE existing door from Foyer 103 to existing stair framed opening.
- c. REMOVE sections of existing hand railing.
- d. ADD wood chair railing to wall, on South end of existing Ballroom.

2. Sheet A1.3 – Kitchen Equipment Plan & Schedule:

- a. REVISE Kitchen Equipment Schedule, item #5, to include Ice Bin.

3. Sheets P1.0, P1.1, P2.0 & P2.1:

- a. REVISE Janitor Sink Basin. The sink basin shall be modified to fit the specified mop sink scheduled on Sheet P2.0.
- b. REVISE item marked (L-1) on Plumbing Fixture Schedule, Sheet P2.0.
- c. A detail for cutting the existing slab is included to assist with mop sink modification.
- d. REVISE General Grease Trap Note.

4. Sheets M1.1 & M2.1:

- a. REVISE Kitchen. The specified air devices on M1.1 have been modified and a supply fan has been added to better service the kitchen.
- b. REVISE Air Devices Schedule on M2.1 to accommodate revisions made on Sheet M1.1.
- c. An air balance schedule and supply fan schedule have been added.

END ADDENDUM No. 1



Attachments:

- Addenda Acknowledgement Form
- Pre-Bid Meeting Agenda
- Pre-Bid Sign-in Sheet
- Sheet A1.2 – Floor Plan & Enlarged Plans (Revision No. 1)
- Sheet P1.0 – Sanitary, Drain, Waste and Vent Plan (Revision No. 1)
- Sheet P1.1 – Domestic Water and Gas Plan (Revision No. 1)
- Sheet P2.0 – Plumbing Schedules (Revision No. 1)
- Sheet P2.1 – Plumbing Schedules (Revision No. 1)
- Sheet M1.1 – HVAC Floor Plan (Revision No. 1)
- Sheet M2.1 – HVAC Schedules (Revision No. 1)



Date: 07-07-20



ADDENDA ACKNOWLEDGEMENT FORM FOR ADDENDUM NO. 1

This form must be signed and submitted with the bid package.

RECEIPT OF ADDENDUM NUMBER(S) **1** IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF **LEON VALLEY COMMUNITY CENTER UPGRADES**

FOR WHICH BIDS WILL BE PUBLICALLY OPENED ON **TUESDAY, JULY 14, 2020 AT 10:00 A.M.**

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title



Community Center Upgrades

BID #2020-04

Pre-Bid Meeting Agenda

June 30, 2020

10:00 AM

Project Overview:

Base Bid: Replace existing flooring throughout the facility except as otherwise noted. Install new lay-in ceiling tiles to replace removal of A/C return air grilles. Clean, repair and paint exterior stucco. Cut back trees that are too close to building. Re-paint interior and exterior metal doors. Replace stucco on South “add-on”. Replace flashing at South “add-on” roof transition to main building wall. Provide power and data drops for new ceiling mounted projector and powered projection screen. Upgrade the existing Men’s and Women’s restrooms. Upgrade existing Kitchen to full commercial type with new countertops and commercial equipment. Replace all existing fluorescent lighting with new LED light fixtures. Replace all existing ceiling fans and lights at the outdoor patio.

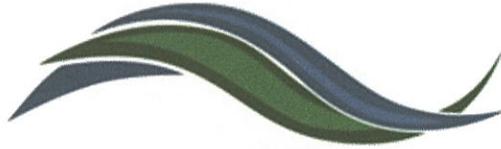
Alternate #1 Bid: New flooring as scheduled in Ballroom.

General Discussion:

- Opinion of Probable Construction Cost Estimate is provided on the Bid Advertisement, Base Bid: \$582,835.00
- All technical questions/comments must be submitted to Byron Sanderfer, PE, LNV, LLC at BSANDERFER@LNVINC.COM
- Addendums will be posted to the City of Leon Valley website: <http://www.leonvalleytexas.gov/government/finance/purchasing.php> and on Public Purchase at www.publicpurchase.com

Important Dates:

- Tuesday, July 14, 2020
 - Bids are due to the City of Leon Valley, Office of the Public Works at 6400 El Verde, Leon Valley, Texas 78238 **by 10:00 AM CST** and will be opened publicly and read aloud at approximately **10:00 AM CST**.
 - Each bid must be accompanied by a cashier’s check, certified check, or bid bond in an amount not less than **5%** of the total bid price
- Substantial Completion is within 90 Calendar Days from Notice to Proceed.
- Liquidated Damages: \$500.00 for each calendar day over the allotted time.



**City of Leon Valley
Pre-Bid Conference – Bid 2020-04
Community Center Remodel Project 6-30-2020**

Name	Company	Phone	Email
BYRON SANDERSON	LNV	210.378.0003	BSANDERSON@LNVINC.COM
CODY TRENT	LNV	361-523-1392	CTRENT@LNVINC.COM
CRAIG FORSYTHE	LNV	361.296.1965	CFORSYTHE@LNVINC.COM
Bri Murphree	W.P. Construction	301.212.7488	WP-Construction@yahoo.com
Amanda Remmy	"	301.649.0685	WP-remodeling@yahoo.com
Melinda Moritz	City of Leon Valley	210-684-1391	m.moritz@leonvalleytexas.gov
Maribel Mendoza	City of Leon Valley	210.684.1391	m.mendoza@leonvalleytexas.gov

THESE TYPING NOTES AND CERTIFY THAT THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS (TBAE) HAS REVIEWED THIS DOCUMENT FOR COMPLIANCE WITH THE PROFESSIONAL PRACTICE OF ARCHITECTURE, FOR QUESTIONS CONCERNING THE PROFESSIONAL PRACTICE OF ARCHITECTURE IN THE STATE OF TEXAS, CONTACT THE TBAE AT (512) 306-6000. WWW.TBAE.COM OR WRITE TO THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 6027, AUSTIN, TEXAS 78767-0027.



ISSUES / REVISIONS	NO.	DATE	BY	DESCRIPTION
	1	7/7/20	CEJ	NO. 1 CHANGES

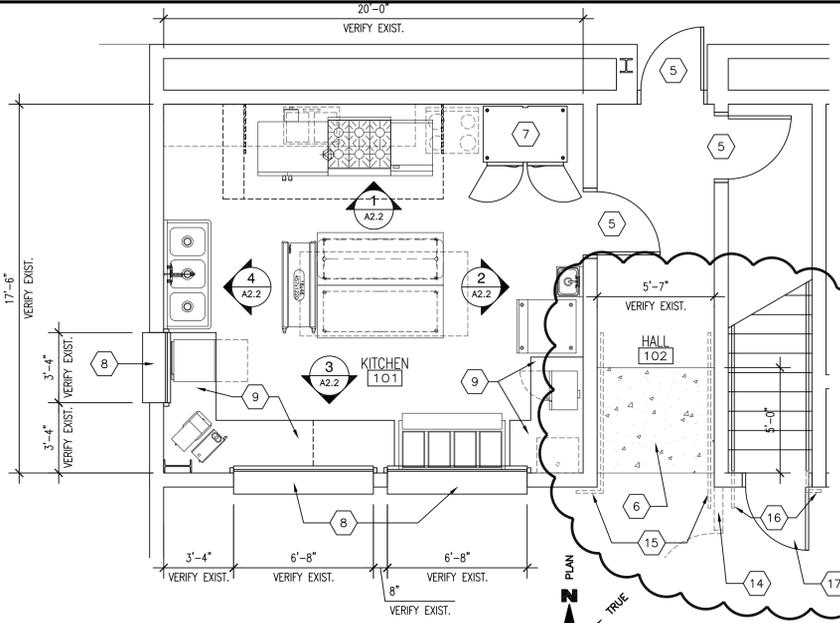
**LEON VALLEY COMMUNITY CENTER UPGRADES
LEON VALLEY, TEXAS
FLOOR PLAN & ENLARGED PLANS**

TBPELS REGISTERED FIRM NO. 10000
ENGINEERING FIRM F-386
SURVEYING FIRM 1016600
TBAE REGISTERED FIRM NO. 10000
ARCHITECTURAL FIRM BR599
PH. (512) 985-1984
WWW.LVINC.COM

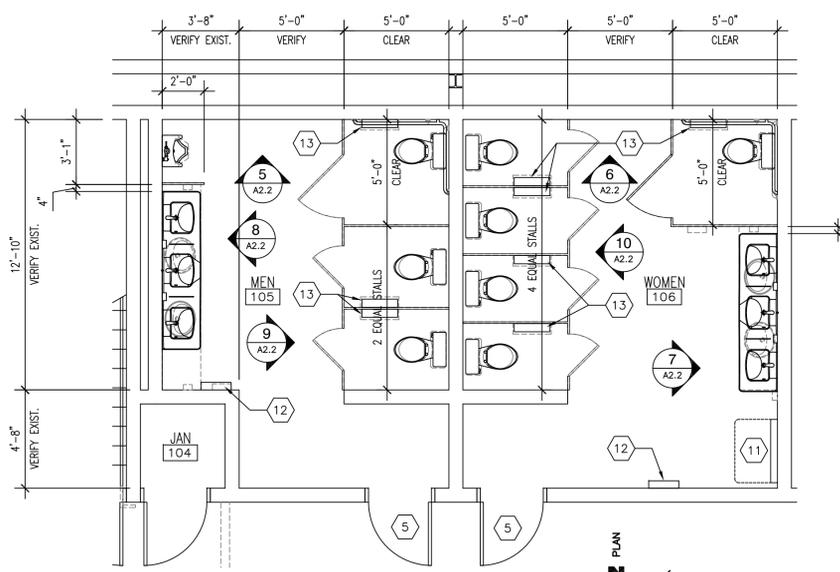
DRAWING NO.: **A1.2** of 5
DRAWN BY: NCT
CHECKED BY: CEF
APPROVED BY: CEF
JOB NO.: 170165.310

GENERAL DEMOLITION NOTES

1. KITCHEN: REMOVE EXISTING MILLWORK, SINKS, OVEN, VCT FLOORING & WALL BASE. PATCH WALLS & FLOOR AS NEEDED TO PREPARE SURFACES FOR NEW FINISHES AS SCHEDULED & SPECIFIED. SEE MEP DRAWINGS FOR ADDITIONAL ITEMS TO BE REMOVED.
2. RESTROOMS: REMOVE EXISTING WATER CLOSETS (TOILETS), GRAB BARS, TOILET PARTITIONS, URINAL, MILLWORK, SINKS, TOILET PAPER DISPENSERS, PAPER TOWEL DISPENSERS, SOAP DISPENSERS, VCT FLOORING & WALL BASE. PATCH WALLS & FLOOR AS NEEDED TO PREPARE SURFACES FOR NEW FINISHES AS SCHEDULED & SPECIFIED. SEE MEP DRAWINGS FOR ADDITIONAL ITEMS TO BE REMOVED.
3. HALL: REMOVE EXISTING FLOOR PAINT & WALL BASE. PREPARE SURFACES FOR NEW FINISHES AS SCHEDULED & SPECIFIED.



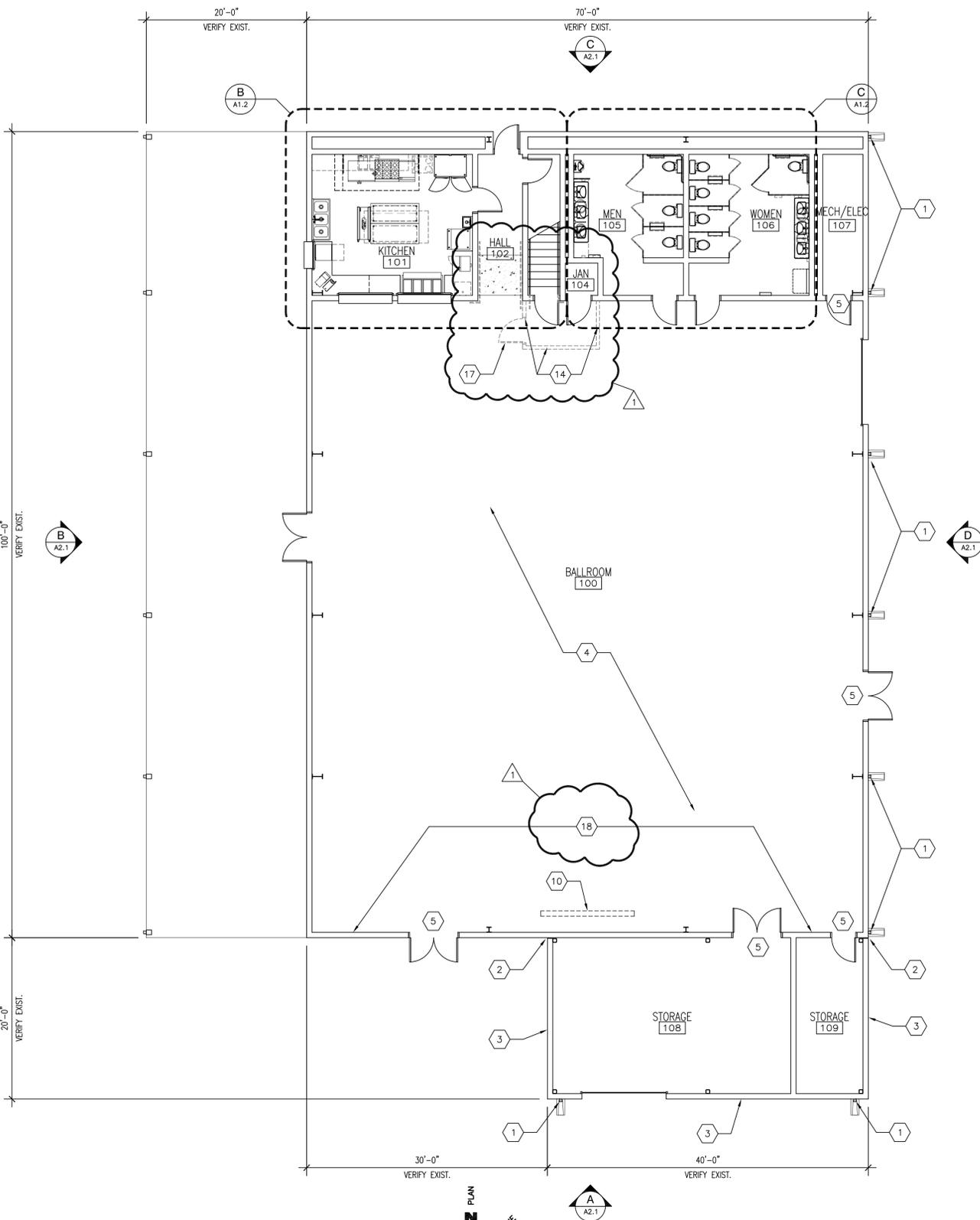
B ENLARGED KITCHEN PLAN
SCALE: 1/4"=1'-0"



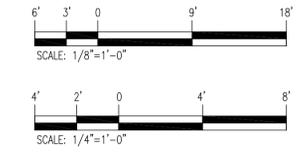
C ENLARGED RESTROOM PLANS
SCALE: 1/4"=1'-0"

PLAN KEYED NOTES

MARK	DESCRIPTION
1	REMOVE & REPLACE METAL DOWNSPOUT WITH NEW METAL DOWNSPOUT TO MATCH EXISTING. INSTALL NEW CONCRETE SPLASH BLOCK. TOTAL OF EIGHT (8) DOWNSPOUTS/SPLASH BLOCKS.
2	REMOVE EXISTING SEALANT BETWEEN WALL TRANSITIONS. INSTALL NEW BACKER ROD & SEALANT. SEALANT TO MATCH COLOR OF EXISTING STUCCO. TOTAL OF TWENTY SIX (26) LINEAR FEET.
3	REMOVE & REPLACE APPROXIMATELY EIGHT HUNDRED & FIFTY (850) SQ. FT. OF EXISTING STUCCO/METAL LATH & WEATHER BARRIER WITH NEW STUCCO/METAL LATH & WEATHER BARRIER AS SPECIFIED.
4	(ADD ALTERNATE #1) PREPARE EXISTING CONCRETE FLOOR FOR 5,322 SQUARE FEET OF NEW VINYL PLANK FLOORING.
5	PAINT EXISTING DOOR AND DOOR FRAME.
6	SAW-CUT AND REMOVE EXISTING CONCRETE RAMP. ROUGHEN CONCRETE IN AREA SHOWN TO RECEIVE NEW NON-SHRINK EPOXY GROUT RAMP. POUR NEW RAMP WITH CONSISTENT SLOPE. FINISH SMOOTH TO ACCEPT NEW FLOORING AS SCHEDULED.
7	EXISTING REFRIGERATOR TO REMAIN.
8	EXISTING PLASTIC LAMINATE FINISHED ROLLING COUNTER DOOR SHELF. RE-FINISH SHELF WITH 16 GAUGE, 304 STAINLESS STEEL TOP & MONOLITHIC EDGES.
9	NEW PLASTIC LAMINATE FINISHED MILLWORK WITH 30" WIDE, 16 GAUGE, 304 STAINLESS STEEL COUNTERTOP, MONOLITHIC EDGES & MONOLITHIC BACK SPLASH. SEE REFERENCED INTERIOR ELEVATIONS.
10	NEW ELECTRICALLY OPERATED, CEILING MOUNTED, PROJECTION SCREEN AS SPECIFIED. SEE MEP FOR ADDITIONAL INFORMATION.
11	BABY CHANGING STATION TO REMAIN.
12	NEW PAPER TOWEL DISPENSER/DISPOSAL COMBINATION UNIT AS SPECIFIED.
13	NEW TOILET PAPER DISPENSER AS SPECIFIED.
14	REMOVE EXISTING 7'-9" TALL VESTIBULE WALLS. PATCH REMAINING CONNECTING WALLS & FLOOR AS REQUIRED TO ACCEPT NEW FINISHES AS SCHEDULED.
15	REMOVE EXISTING STEEL HAND RAILING BOTH SIDES OF EXISTING HALL. PATCH WALLS AS REQUIRED TO ACCEPT NEW FINISHES AS SCHEDULED.
16	CUT & REMOVE END OF EXISTING STEEL HAND RAILING, BOTH SIDES OF EXISTING STAIR, TO ALLOW INSTALLATION OF RELOCATED DOOR. PATCH WALLS AS REQUIRED TO ACCEPT NEW FINISHES AS SCHEDULED.
17	RELOCATE EXISTING HOLLOW METAL DOOR & HARDWARE TO STAIR ENTRANCE. INSTALL DOOR IN EXISTING HOLLOW METAL FRAME. PAINT DOOR & FRAME.
18	INSTALL NEW STAINED/SEALED 2X8 WOOD CHAIR RAIL, ON SOUTH BALLROOM WALL, TO MATCH EXISTING. NEW RAIL TO BE A TOTAL OF APPROXIMATELY 53'-0" LONG.



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



U:\Leon Valley\170165 Professional Eng. Rev\170 Community Center Upgrade\170-Dwg\170-Floor Plan & Enlarged Plans.dwg
Monday, July 16, 2020 10:46am



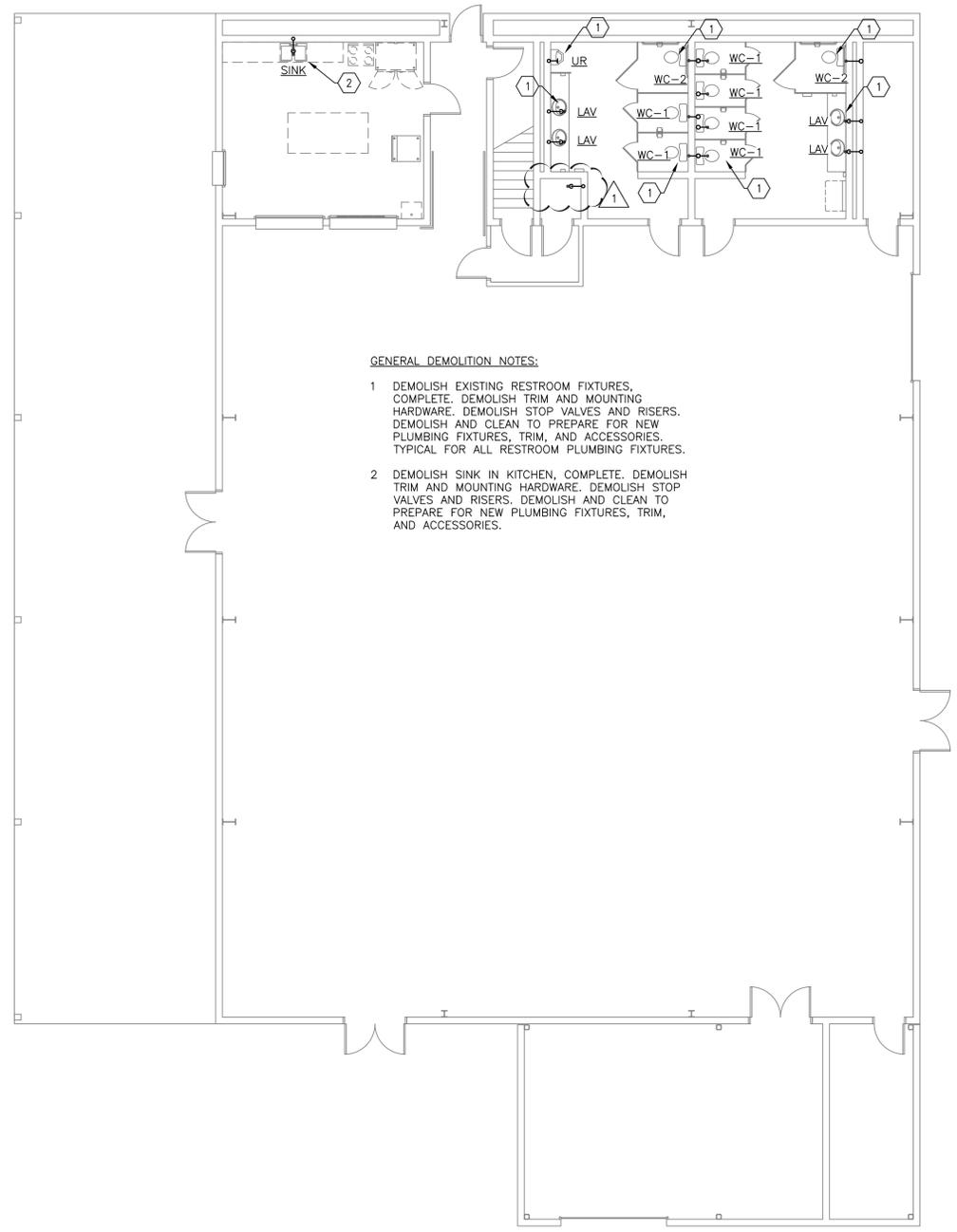
DATE: 06/24/20
ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	07/07/2020	ADDITION 1

LEON VALLEY COMMUNITY CENTER UPGRADES
LEON VALLEY, TEXAS
SANITARY, DRAIN, WASTE, AND VENT PLAN

TABLES REGISTERED FIRM NO. 10126690
ENGINEERING FIRM 10126690
SURVEYING FIRM 10126690
IDEAL REGISTERED FIRM NO. 10126690
ARCHITECTURAL FIRM BR599
PH. (361) 852-1884
WWW.LVINC.COM

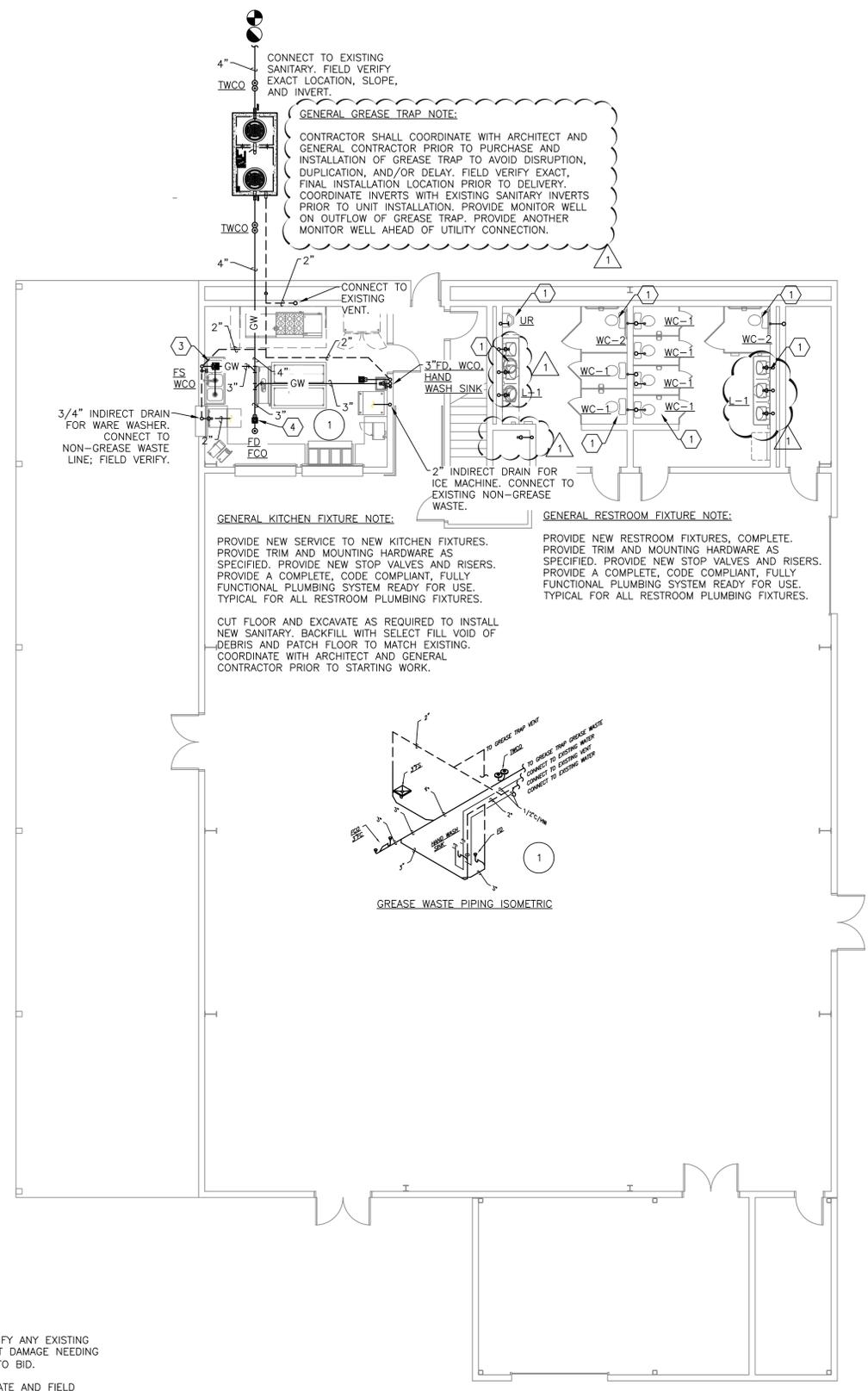
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1 of 5
DRAWN BY: RS
CHECKED BY: JW
APPROVED BY: JW
JOB NO.: 20111



1 SANITARY DRAIN, VENT, AND WASTE DEMOLITION PLAN
SCALE: 1/8"=1'-0"

GENERAL DEMOLITION NOTES:

- 1 DEMOLISH EXISTING RESTROOM FIXTURES, COMPLETE. DEMOLISH TRIM AND MOUNTING HARDWARE. DEMOLISH STOP VALVES AND RISERS. DEMOLISH AND CLEAN TO PREPARE FOR NEW PLUMBING FIXTURES, TRIM, AND ACCESSORIES. TYPICAL FOR ALL RESTROOM PLUMBING FIXTURES.
- 2 DEMOLISH SINK IN KITCHEN, COMPLETE. DEMOLISH TRIM AND MOUNTING HARDWARE. DEMOLISH STOP VALVES AND RISERS. DEMOLISH AND CLEAN TO PREPARE FOR NEW PLUMBING FIXTURES, TRIM, AND ACCESSORIES.



2 SANITARY DRAIN, WASTE, AND VENT PLAN
SCALE: 1/8"=1'-0"

GENERAL KITCHEN FIXTURE NOTE:

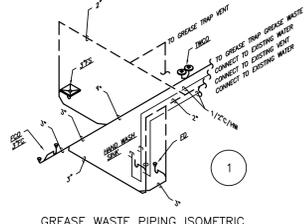
PROVIDE NEW SERVICE TO NEW KITCHEN FIXTURES. PROVIDE TRIM AND MOUNTING HARDWARE AS SPECIFIED. PROVIDE NEW STOP VALVES AND RISERS. PROVIDE A COMPLETE, CODE COMPLIANT, FULLY FUNCTIONAL PLUMBING SYSTEM READY FOR USE. TYPICAL FOR ALL RESTROOM PLUMBING FIXTURES.

CUT FLOOR AND EXCAVATE AS REQUIRED TO INSTALL NEW SANITARY. BACKFILL WITH SELECT FILL VOID OF DEBRIS AND PATCH FLOOR TO MATCH EXISTING. COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO STARTING WORK.

GENERAL RESTROOM FIXTURE NOTE:

PROVIDE NEW RESTROOM FIXTURES, COMPLETE. PROVIDE TRIM AND MOUNTING HARDWARE AS SPECIFIED. PROVIDE NEW STOP VALVES AND RISERS. PROVIDE A COMPLETE, CODE COMPLIANT, FULLY FUNCTIONAL PLUMBING SYSTEM READY FOR USE. TYPICAL FOR ALL RESTROOM PLUMBING FIXTURES.

GENERAL GREASE TRAP NOTE:
CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO PURCHASE AND INSTALLATION OF GREASE TRAP TO AVOID DISRUPTION, DUPLICATION, AND/OR DELAY. FIELD VERIFY EXACT, FINAL INSTALLATION LOCATION PRIOR TO DELIVERY. COORDINATE INVERTS WITH EXISTING SANITARY INVERTS PRIOR TO UNIT INSTALLATION. PROVIDE MONITOR WELL ON OUTFLOW OF GREASE TRAP. PROVIDE ANOTHER MONITOR WELL AHEAD OF UTILITY CONNECTION.



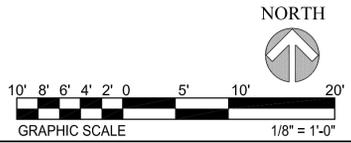
GREASE WASTE PIPING ISOMETRIC

PLUMBING GENERAL NOTES:

- PLUMBING CONTRACTOR SHALL FIELD VERIFY ANY EXISTING CONDITIONS AND REPORT ANY SIGNIFICANT DAMAGE NEEDING ATTENTION TO ARCHITECT/OWNER PRIOR TO BID.
- PLUMBING CONTRACTOR SHALL COORDINATE AND FIELD ADJUST ANY PLUMBING FIXTURES AND PIPING THAT MAY BE NECESSARY TO FIT FIELD CONDITIONS. COORDINATE WITH ARCHITECT/OWNER AND OTHER TRADES PRIOR TO THE COMMENCEMENT OF WORK.

PLUMBING KEY NOTES:

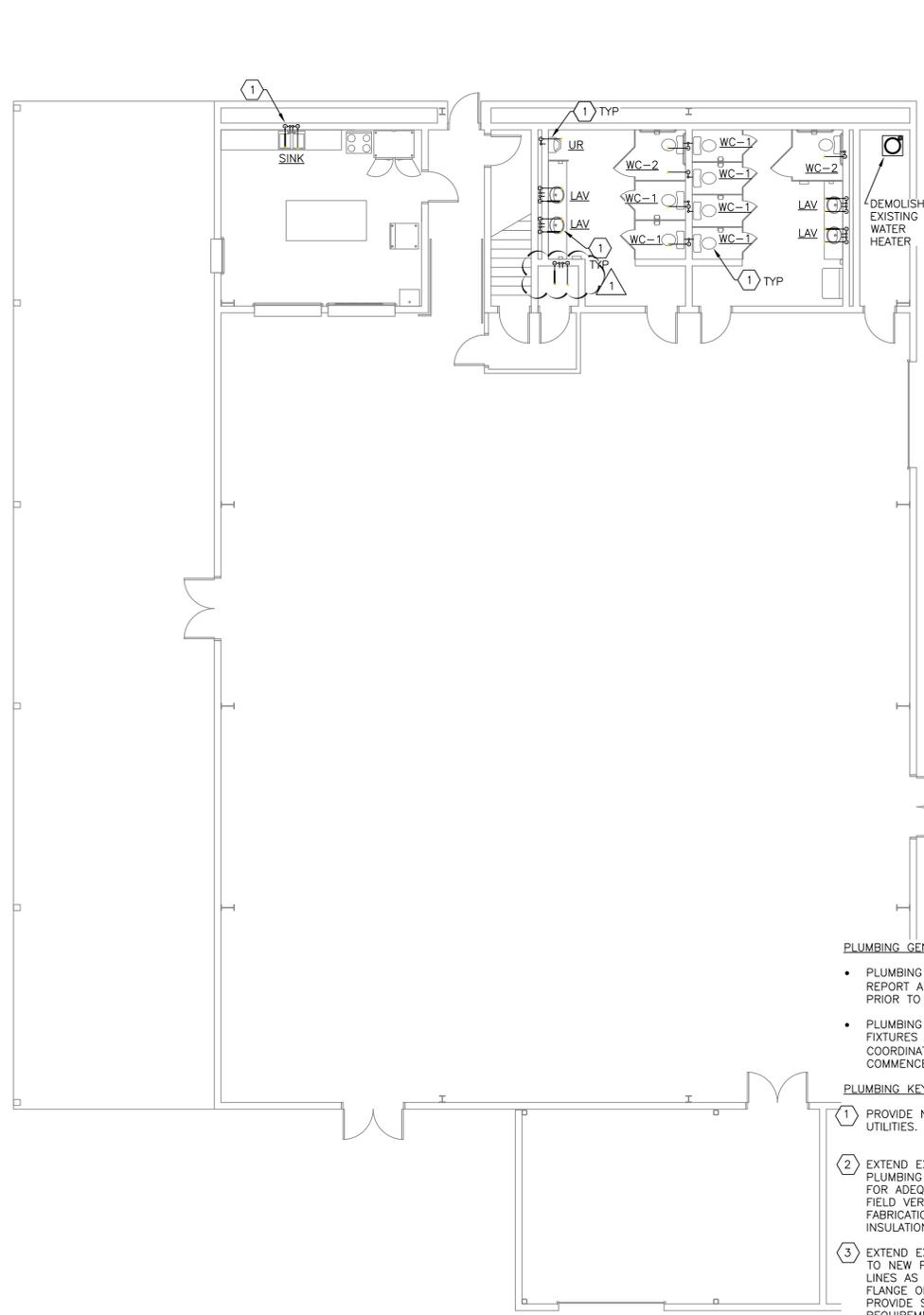
- 1 EXISTING FIXTURE(S) SHALL BE REPLACED WITH NEW. DISCONNECT UTILITIES AND REMOVE EXISTING. PROVIDE AND INSTALL NEW FIXTURE(S) AND REROUTE/EXTEND EXISTING UTILITIES TO RECONNECT AS REQUIRED.
- 2 DEMOLISH SINK IN KITCHEN, DEMOLISH WATER, SANITARY, AND VENT LINES BACK TO MAIN AND CAP.
- 3 PROVIDE FLOOR SINK FOR THREE COMPARTMENT SINK. COORDINATE WITH GENERAL CONTRACTOR FOR EXACT, FINAL LOCATION.
- 4 PROVIDE FLOOR DRAIN.



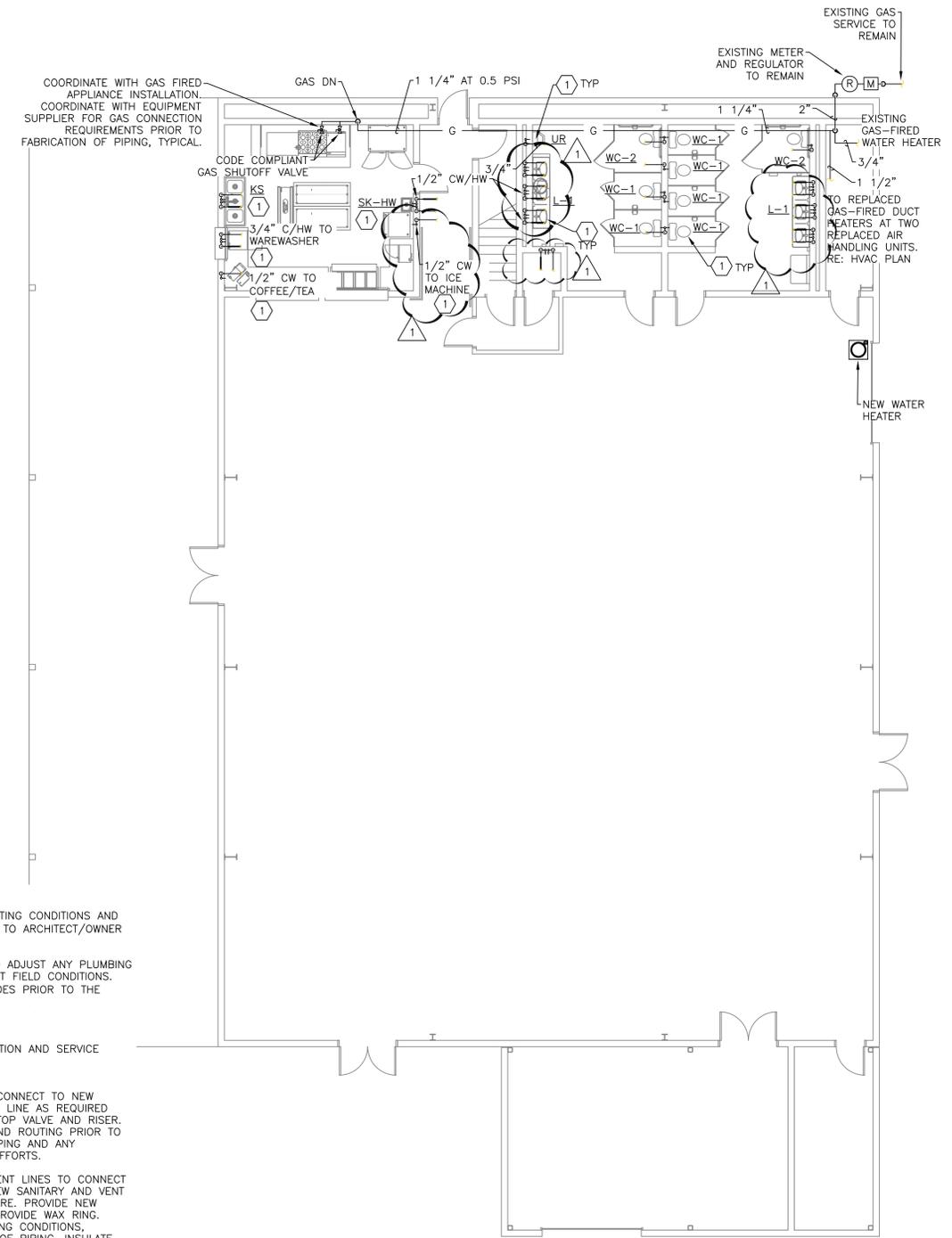


DATE: 06/24/20

ISSUES / REVISIONS	
NO.	DESCRIPTION
1	ADDENDUM 1

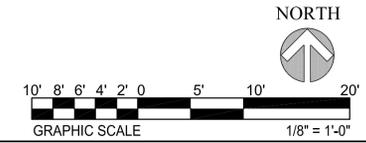


1 DOMESTIC WATER DEMOLITION PLAN
 SCALE: 1/8"=1'-0"



2 DOMESTIC WATER AND GAS PLAN
 SCALE: 1/8"=1'-0"

- PLUMBING GENERAL NOTES:**
- PLUMBING CONTRACTOR SHALL FIELD VERIFY ANY EXISTING CONDITIONS AND REPORT ANY SIGNIFICANT DAMAGE NEEDING ATTENTION TO ARCHITECT/OWNER PRIOR TO BID.
 - PLUMBING CONTRACTOR SHALL COORDINATE AND FIELD ADJUST ANY PLUMBING FIXTURES AND PIPING THAT MAY BE NECESSARY TO FIT FIELD CONDITIONS. COORDINATE WITH ARCHITECT/OWNER AND OTHER TRADES PRIOR TO THE COMMENCEMENT OF WORK.
- PLUMBING KEY NOTES:**
- 1 PROVIDE NEW PLUMBING FIXTURE. USE EXISTING LOCATION AND SERVICE UTILITIES.
 - 2 EXTEND EXISTING AND PROVIDE NEW WATER LINE TO CONNECT TO NEW PLUMBING FIXTURE. EXTEND AND PROVIDE NEW WATER LINE AS REQUIRED FOR ADEQUATE SERVICE TO FIXTURE. PROVIDE NEW STOP VALVE AND RISER. FIELD VERIFY EXISTING CONDITIONS, REQUIREMENTS, AND ROUTING PRIOR TO FABRICATION OF PIPING. INSULATE ALL NEW WATER PIPING AND ANY INSULATION DAMAGED DURING THESE CONSTRUCTION EFFORTS.
 - 3 EXTEND EXISTING AND PROVIDE NEW SANITARY AND VENT LINES TO CONNECT TO NEW PLUMBING FIXTURE. EXTEND AND PROVIDE NEW SANITARY AND VENT LINES AS REQUIRED FOR ADEQUATE SERVICE TO FIXTURE. PROVIDE NEW FLANGE ON SANITARY WASTE LINE AT WATERCLOSET. PROVIDE WAX RING. PROVIDE STOP VALVE AND RISER. FIELD VERIFY EXISTING CONDITIONS, REQUIREMENTS, AND ROUTING PRIOR TO FABRICATION OF PIPING. INSULATE ALL NEW WATER PIPING.
 - 4 COORDINATE KITCHEN EQUIPMENT PLUMBING REQUIREMENTS WITH ARCHITECT, GENERAL CONTRACTOR, AND KITCHEN VENDOR PRIOR TO PURCHASE AND FABRICATION OF PIPING. FIELD VERIFY EXACT LOCATION OF UTILITY CONNECTIONS.
 - 5 EXTEND GAS LINE TO SERVICE NEW GAS FIRED OVEN/RANGE. FIELD VERIFY METER/REGULATOR SIZING WITH UTILITY PROVIDER TO ENSURE PROPER GAS VOLUME/PRESSURE TO UNIT. PROVIDE PRESSURE REGULATOR AT METER AS REQUIRED IF PRESSURE REQUIRES VARIANCE FROM EXISTING. PROVIDE GAS COCK AND PRESSURE REGULATOR AT GAS FIRED OVEN/RANGE. FIELD VERIFY GAS PIPING ROUTING PRIOR TO FABRICATION OF PIPING.



LEON VALLEY COMMUNITY CENTER UPGRADES
LEON VALLEY, TEXAS
DOMESTIC WATER AND GAS PLAN

LNV
 an Adurra Company
 601 NAVASOTA, SUITE 300
 CORPUS CHRISTI, TX 78408
 PH: (361) 885-1884
 WWW.LNVINC.COM

DRAWING NO: **P1.1**

1 of 5

DRAWN BY: RS
 CHECKED BY: JW
 APPROVED BY: JW
 JOB NO.: 20111

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	SOIL OR WASTE	VENT	TRAP	WATER		REMARKS
					COLD	HOT	
WC	WATER CLOSET	4"	2"	-	1"	-	
L	LAVATORY	2"	1 1/4"	1 1/4"	1/2"	1/2"	
MS	MOP SINK	3"	1 1/2"	3"	3/4"	3/4"	
SK	SINK	2"	1 1/2"	1 1/2"	1/2"	1/2"	
UR	URINAL	2"	1 1/2"	-	3/4"	-	
EWC	ELEC. DRINKING FOUNTAIN	2"	1 1/4"	1 1/4"	1/2"	-	

WATER HAMMER ARRESTORS

MARK	MANUFACTURER	MODEL	SIZE
SA-A	ZURN	SHOCKTROL Z-1700	# 100

- REMARKS:
- INSTALL PER GOVERNING AUTHORITIES AND MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE ACCESS PANEL, COORDINATE WITH ARCHITECTURAL FOR EXACT FINAL LOCATION OF ACCESS PANEL. PROVIDE STAINLESS STEEL ACCESS PANEL, PAINTED WITH COLOR PER ARCHITECTURAL.
 - CONFORM TO NATIONAL PLUMBING CODE ASA A-40-8 AND STANDARD PDI-WH201.

PLUMBING LOAD SUMMARY

DOMESTIC COLD WATER	59.25 FU	14.60 GPM
DOMESTIC HOT WATER	14.25 FU	10.00 GPM
SANITARY SEWER (BLDG. TOTAL)	50 FU	

PLUMBING FIXTURE UNITS NOTED ABOVE ARE CALCULATED PER THE INTERNATIONAL PLUMBING CODE AND MAY VARY FROM SOME EQUIPMENT MANUFACTURER'S RECOMMENDED METHODS. AS AN EXAMPLE, SOME WATER METER MANUFACTURERS MAY USE DIFFERENT FIXTURE UNIT VALUES FOR THEIR METER SIZING CALCULATIONS.

EXPANSION TANK

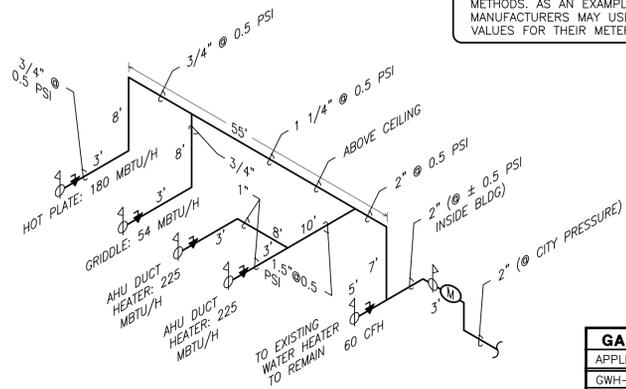
MARK	MANUFACTURER	MODEL	LOCATION	STORAGE (GALLON)	SERVICE
ET-1	PROFLOW	PFT-12	EWH	4.4	HOT WATER EXPANSION

- NOTES:
- MOUNT PER MANUFACTURER'S RECOMMENDATIONS.
 - INSTALL PER INTERNATIONAL PLUMBING CODE - CURRENT VERSION.
 - FACTORY PRE-CHARGE
 - PROVIDE MANUFACTURER'S RECOMMENDED MOUNTING HARDWARE.
 - PROVIDE SUPPORTS (GALVANIZED UNISTRUT ALLOWED) TO SECURE EXPANSION TANK TO BUILDING. DO NOT SUPPORT EXPANSION TANK ONLY BY CONNECTING DOMESTIC WATER PIPING.

PUMP SCHEDULE

MARK	SERVICE	LOCATION	MOTOR DATA		MANUFACTURER/MODEL
			AMPS	V/P/H	
RCP	WATER RECIRC.	ON WALL/EWH	1.4	115/1/60	WATTS 500800

- NOTES:
- PROVIDE MANUFACTURER'S RECOMMENDED MOUNTING HARDWARE.
 - ELECTRICAL SHALL PROVIDE DISCONNECT.
 - PROVIDE AQUASTAT, JOHNSON CONTROLS A19D, B&G AQS OR EQUAL.
 - PUMP SHALL BE CONTROLLED BY TIMELOCK. TIMELOCK SHALL SHUTDOWN PUMP WHEN BUILDING IS SCHEDULED "UNOCCUPIED". PUMP SHALL ALSO BE CONTROLLED BY THE AQUASTAT; WHEN RETURN WATER IS AT SETPOINT TEMPERATURE (OWNER ADJUSTABLE), THEN THE AQUASTAT SHALL SHUT DOWN PUMP; ON DETECTION OF LOWER RETURN WATER TEMPERATURE DURING OCCUPIED PERIODS, PUMP SHALL ENGAGE TO CIRCULATE HOT WATER.



GAS PIPING RISER

NOT TO SCALE

GAS LOAD SUMMARY

APPLIANCE	CFH
GWH-1 (EXISTING)	60
AHU-1 DUCT FURNACE	225
AHU-2 DUCT FURNACE	225
HOT PLATE	180
GAS GRIDDLE	54
TOTAL	774
LONGEST DISTANCE	150'-0"

GAS LOAD SUMMARY BASED ON IFGC TABLE 402.4(1) NATURAL GAS, LESS THAN 2 PSI INLET PRESSURE, 0.3" WC PD, SG 0.60 AND IFGC TABLE 402.4(3) NATURAL GAS, 2.0 PSI INLET PRESSURE, 1.0 PSI PD, 0.60 SG.

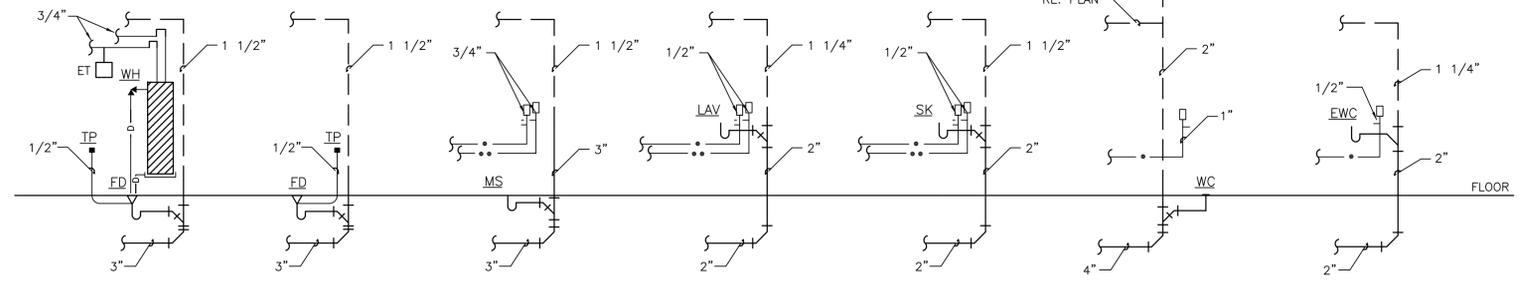
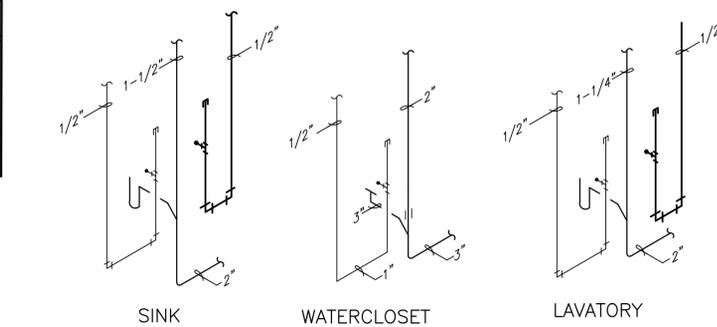
NATURAL GAS NOTES

- THE GAS COMPANY SHALL FURNISH METER, GAS PRESSURE REGULATOR AND SHORT TAP IF NEEDED. INSTALL GAS PIPING FROM TAP IN TRENCH FROM THE PROPERTY LINE, AND MAKE ALL CONNECTIONS REQUIRED. ARRANGE & PAY FOR ALL COSTS REQUIRED FOR THIS WORK. GAS PIPE WILL BE PROVIDED BY PLUMBING CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE GAS PIPING FOR ALL EQUIPMENT REQUIRING NATURAL GAS SERVICE, INCLUDING ALL FINAL CONNECTIONS AND TESTING. COORDINATE GAS PIPING WITH HVAC AND OTHER CONTRACTOR.
- PROVIDE SWING JOINTS AT ALL BRANCH LINES FROM GAS MAIN & EXPANSION LOOPS W/PIPE ANCHORS WHERE REQUIRED BY CODES. PROVIDE MOISTURE TRAPS AT EACH DROP IN GAS PIPING.
- PROVIDE MANUAL GAS SHUTOFF VALVE AT EACH APPLIANCE AND/OR EQUIPMENT SERVED INCLUDING UNIONS.
- PROVIDE SHUNT TRIP ON GAS FIRED KITCHEN APPLIANCES SUCH AS OVEN/RANGE AND THE LIKE.

SUMP PUMP SCHEDULE

MARK	SERVICE	LOCATION	GPM	HEAD PRESS. (FEET)	MOTOR DATA			MANUFACTURER/MODEL	
					HP	V/P	EFF. RPM		
	ELEVATOR SUMP DEWATERING	IN PIT	50.0	3.1	0.5	115/1	65%	1750	BELL AND GOSSETT 2WT05

- NOTES:
- DISCHARGE SIZE - 2" THREADED
 - 2" SOLIDS HANDLING
 - CAST IRON, SEMI-OPEN, DYNAMICALLY BALANCED, NON-CLOG WITH PUMP OUT VANES FOR MECHANICAL SEAL PROTECTION.
 - SILICON CARBIDE SEALING FACES, STAINLESS STEEL METAL PARTS, BUNA-N ELASTOMERS.
 - THREADED, CORROSION-RESISTANT STAINLESS STEEL SHAFT.
 - 300 SERIES STAINLESS STEEL FASTENERS
 - CAPABLE OF RUNNING DRY WITHOUT DAMAGE TO COMPONENTS.
 - DESIGNED FOR CONTINUOUS OPERATION WHEN FULLY SUBMERGED.
 - FULLY SUBMERGED IN HIGH GRADE TURBINE OIL FOR LUBRICATION AND HEAT TRANSFER.
 - SINGLE PHASE MOTOR WITH CAPACITOR START MOTOR.
 - BUILT-IN OVERLOAD WITH AUTOMATIC RESET.
 - SEVERE DUTY OIL AND WATER RESISTANT POWER CORD.
 - POWER CORD LENGTH AS REQUIRED. FIELD VERIFY.
 - NEMA THREE PRONG GROUNDING PLUG. OFF/ON CONTROLLED BY WALL SWITCH.
 - REFER TO ELEVATOR SUMP PUMP DETAIL KEYED NOTES FOR ADDITIONAL INFORMATION. PROVIDE SUMP PUMP, HIGH WATER/OIL ALARM PANEL, LITTLE GIANT OS3-1/513390 FLOAT SWITCH WITH ALARM.



PLUMBING PIPING RISER

SCALE: NOT TO SCALE

COORDINATION NOTE

PLUMBING CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, CIVIL AND OTHER PLANS AND SECTIONS FOR LOCATIONS OF ANY ELEMENTS WHICH WILL IMPEDE PLUMBING PIPING ROUTING. PLUMBING CONTRACTOR SHALL COORDINATE PIPING EFFORTS SPECIFICALLY WITH STRUCTURAL DIVISION TO VERIFY A CLEAR PATH FOR WATER, SANITARY, AND VENT PIPING PRIOR TO FABRICATION OF ANY PIPING. FIELD VERIFY CLEARANCES AND ROUTING PATHS PRIOR TO FABRICATION OF ANY PIPING.

FAILURE TO CONFORM TO COORDINATE CONSTRUCTION EFFORTS WITH OTHER TRADES SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY TO INSTALL PLUMBING SYSTEMS ACCORDING TO PROJECT SPECIFICATIONS AND REQUIREMENTS. ANY AND ALL REWORK TO PROVIDE COMPLETE, FUNCTIONAL INSTALLATIONS SHALL BE DONE AT NO COST TO THE OWNER.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	STORAGE (GALLON)	V/P	RECOVERY (@100° F)	KW	NOTES
EWH-1	A.O. SMITH	DVE-52	50	208/1	55	13.5	ALL APPLY

- NOTES:
- INSTALL PER GOVERNING AUTHORITIES RECOMMENDATIONS.
 - MAINTAIN MANUFACTURER'S RECOMMENDED DISTANCES TO COMBUSTIBLES.
 - PROVIDE AUXILIARY DRAIN PAN, 4" HIGH, 20 GAUGE, GALVANIZED STEEL, WITH A90 COATING.
 - PROVIDE T&P VALVE.
 - PROVIDE EXPANSION TANK, ET.
 - 5 YEAR WARRANTY.
 - SINGLE HEATING ELEMENT.
 - HEATERS SHALL MEET THE MINIMUM ENERGY FACTOR REQUIRED BY THE FEDERAL "NATIONAL APPLIANCE ENERGY CONSERVATION ACT".
 - HEATERS SHALL COMPLY WITH LOCALLY ADOPTED EDITIONS OF ASHRAE 90.1 AND THE INTERNATIONAL ENERGY CONSERVATION CODE.
 - IMMERSION THERMOSTAT
 - FUSED ELECTRICAL SERVICE
 - GLASS LINED TANK, 150PSI WORKING PRESSURE
 - EXTRUDED HIGH DENSITY ANODE
 - COLD WATER INLET TUBE DESIGNED TO REDUCE BUILDUP OF SCALE, FILM AND SEDIMENT.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER/MODEL
WC-1	17 1/8" FLOOR MOUNTED, BOTTOM OUTLET, 1.0 GPF FLUSH, TANK TYPE, WHITE VITREOUS CHINA, REVERSE TRAP, ELONGATED RIM, HEAVY DUTY WHITE PLASTIC OPEN FRONT SEAT LESS COVER. SLOAN FLUSHMATE PRESSURE ASSIST. TRIP LEVER ON WIDE SIDE OF STALL.	KOHLER HIGHLINE K-3519 PRESSURE ASSIST WATER CLOSET BEMIS 1655C SEAT
WC-2	15 1/2" FLOOR MOUNTED, BOTTOM OUTLET, 1.0 GPF FLUSH, TANK TYPE, WHITE VITREOUS CHINA, REVERSE TRAP, ELONGATED RIM, HEAVY DUTY WHITE PLASTIC OPEN FRONT SEAT LESS COVER. SLOAN FLUSHMATE PRESSURE ASSIST. ADULT STANDARD INSTALLATION.	KOHLER WELLWORTH K-3531 PRESSURE ASSIST WATER CLOSET BEMIS 1655C SEAT
UR-1	WALL MOUNTED, BACK OUTLET, 3/4" TOP SPUD, 1.0 GPF FLUSH VALVE, SIPHON JET, WHITE VITREOUS CHINA, URINAL WITH EXTENDED SIDE SHIELDS, 14 1/2" LONG BOWL, AND FLUSHING RIM. PROVIDE MANUFACTURER'S RECOMMENDED WALL BRACKET CARRIER PLATES. ADULT ADA/TAS INSTALLATION.	KOHLER BARDON K-4960-ET URINAL SLOAN REGAL 186-1 FLUSH VALVE
L-1	LAVATORY SYSTEM, WAVE DESIGN, LAVATORIES ON 30 INCH CENTERS, PRE-ASSEMBLED SPRAYHEAD WITH INDEPENDENT AERATORS WITH EACH SERVED BY A SEPARATE INFRARED SENSING MODULE AND SOLENOID VALVE. VANDAL RESISTANT, COLOR BY ARCHITECT. MOUNT PER MANUFACTURER'S RECOMMENDATIONS, ADULT ADA/TAS COMPLIANT INSTALLATION. COORDINATE ALL FINAL LAVATORY OPTIONS WITH OWNER/ARCHITECT PRIOR TO ORDERING.	BRADLEY FL-3H/L LAVATORY SYSTEM THREE BOWL UNIT. S53-315 FAUCET INFRARED SENSOR, MG-3/IR SOLENOIDS-24 VOLTS; LOW VOLTAGE TRANSFORMER. PLUGS INTO STANDARD GFCI PROTECTED ELECTRICAL OUTLET.
KS	KITCHEN SINK BY KITCHEN VENDOR. PLUMBING CONTRACTOR SHALL PROVIDE UTILITY CONNECTIONS TO FIXTURE; COLD WATER, HOT WATER, SANITARY, VENT. PROVIDE ALL CONNECTIONS REQUIRED AND NECESSARY TO FURNISH A COMPLETE, FULLY FUNCTIONAL SYSTEM.	BY KITCHEN VENDOR PLUMBING CONTRACTOR TO CONNECT TO UTILITIES
SK-HW	HAND WASH SINK PROVIDED BY KITCHEN VENDOR. PLUMBING CONTRACTOR SHALL PROVIDE UTILITY CONNECTIONS TO FIXTURE; COLD WATER, HOT WATER, SANITARY, VENT. PROVIDE ALL CONNECTIONS REQUIRED AND NECESSARY TO FURNISH A COMPLETE, FULLY FUNCTIONAL SYSTEM.	BY KITCHEN VENDOR PLUMBING CONTRACTOR TO CONNECT TO UTILITIES
WB	WATER VALVE BOX, FOR ICE MAKER, PLASTIC, WHITE. PROVIDE FOR WATER SERVICE TO COFFE/TEA	OATEY # 38610
FD	DURA COATED CAST IRON FLOOR DRAIN WITH POLISHED NICKEL BRONZE TOP, MEMBRANE CLAMP AND ROUND STRAINER WITH SQUARE OPENING AND DEEP SEAL P-TRAP. PROVIDE TRAP-PRIMER TAP WHERE SHOWN ON DRAWINGS.	ZURN ZN-415 DRAIN TYPE B STRAINER
FS	SANI-FLOOR RECEPTOR, 12"x12", 6" DEEP CAST IRON BODY WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, WHITE SEDIMENT BUCKET. PROVIDE TRAP-PRIMER TAP WHERE SHOWN ON DRAWINGS.	ZURN Z-1900-KC-P-2-25
EWC	BI-LEVEL WALL MOUNTED LEAD FREE ELECTRIC DRINKING FOUNTAIN WITH STAINLESS STEEL CABINET, 8 GPH CAPACITY, FRONT AND SIDE EASY TOUCH CONTROLS, RAISED LETTERING AND CARRIER. CANE TOUCH APRON MOUNTED ON LOW SIDE. ADULT ADA/TAS COMPLIANT INSTALLATION.	ELKAY EZSTL8C FOUNTAIN ZURN Z-1225 CARRIER MCQUIRE 8088 CAST BRASS P-TRAP MCQUIRE H2165LK CHROME PLATED CAST BRASS SUPPLY STOP ELKAY LKAPR-EZL APRON
MS	24" X 24" FLOOR MOUNTED PRECAST TERRAZO NEO-CORNER MOP SERVICE BASIN WITH 12" HIGH SIDES, 6" DROP FRONT, STAINLESS STEEL CAST INTEGRAL DRAIN, ALUMINUM BUMPER, SERVICE FAUCET WITH VACUUM BREAKER AND WALL SUPPORT, MOP HANGER, HOSE AND BRACKET.	FIAT TSBC-1610 BASIN FIAT 830-AA FAUCET FIAT 1239-BB BUMPER FIAT 889-CC MOP HANGER FIAT 832-AA HOSE AND BRACKET FIAT MSG 2424 WALL GUARD
FCO	ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH POLISHED NICKEL BRONZE TOP, GAS AND WATER TIGHT, TAPERED THREAD PLUG. SIZE TO MATCH CONNECTING LINE. PROVIDE ACCESSORIES AND COVER TO MATCH FLOOR CONSTRUCTION AND COVERING.	ZURN Z-1400
TWCO	ADJUSTABLE CLEANOUT WITH NICKEL BRONZE COVER, DURA-COATED CAST IRON BODY, AND ANCHOR FLANGE WITH CLAMP COLLAR. GAS AND WATER TIGHT. ABS TAPERED THREAD PLUG, AND ROUND SCORiated ADJUSTABLE TOP. TRAFFIC GRADE.	ZURN ZN-1400-KC 2-WAY

NOTE: UNLESS OTHERWISE NOTED - STOPS, SUPPLIES, P-TRAPS, ETC., MCQUIRE, BRASSCRAFT OR EQUAL.

Inc Engineering
GPM
Mechanical and Electrical Consultant
Firm Registration # 2689
Professional Engineer
Corpus Christi, TX 78401
361 852 2342 ext. 300
361 852 2343 fax



ISSUES / REVISIONS	NO.	DATE	DESCRIPTION
	1	07/07/2020	ADDITIONAL

LEON VALLEY COMMUNITY CENTER UPGRADES
LEON VALLEY, TEXAS
PLUMBING SCHEDULES

TEBELE REGISTERED FIRM
ARCHITECTURAL FIRM
SURVEYING FIRM
10705690
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ARCHITECTURAL FIRM
10705690
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CORPUS CHRISTI, TX 78408

DRAWING NO.:
P2.0
3 of 5
DRAWN BY: RS
CHECKED BY: JW
APPROVED BY: JW
JOB NO.: 20111

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
---	SEWERY SEWER/WASTE PIPING
---	VENT
---	DRAIN PIPING
---	AIR PIPING
---	COLD WATER SUPPLY PIPING
---	HOT WATER SUPPLY PIPING
---	HOT WATER RETURN PIPING
○	BALL VALVE
○	GATE VALVE
○	HOSE BIBB
○	WALL HYDRANT
○	CAPPED PIPE
○	PIPE DOWN
○	PIPE UP
○	BRANCH PIPE DOWN
○	UNION
○	BALL VALVE IN RISER
○	WATER DROP W/ AIR CHAMBER
○	TRAP PRIMER
○	SHOCK ABSORBER
○	CHECK VALVE
○	MINING VALVE
○	MINING VALVE
○	TRAP W/ ARM TO VENT
○	FLOOR DRAIN
○	WALL CLEANDOUT
○	HUB DRAIN
○	FLOOR CLEANDOUT
○	FLOOR SINK
○	REFER TO CHIL
○	CONNECT TO EXISTING
○	AD TO LOCATE VTR

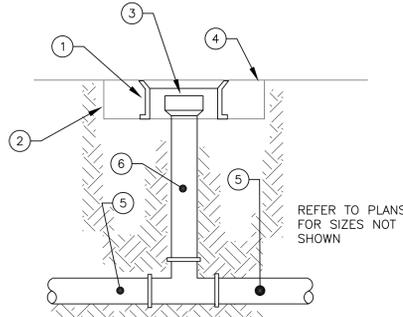
CW	COLD WATER
HW	HOT WATER
T	TEMPERED WATER
CFH	CUBIC FEET PER HOUR
SS	STAINLESS STEEL
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
ELEV	ELEVATION
CP	CHROME PLATED

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED. REFER TO PLANS FOR ADDITIONAL INFORMATION AS REQUIRED. FOR CLARIFICATIONS AND/OR OMISSIONS, CONTACT ENGINEER.

TEST MONITORING WELL DETAIL KEYED NOTES:

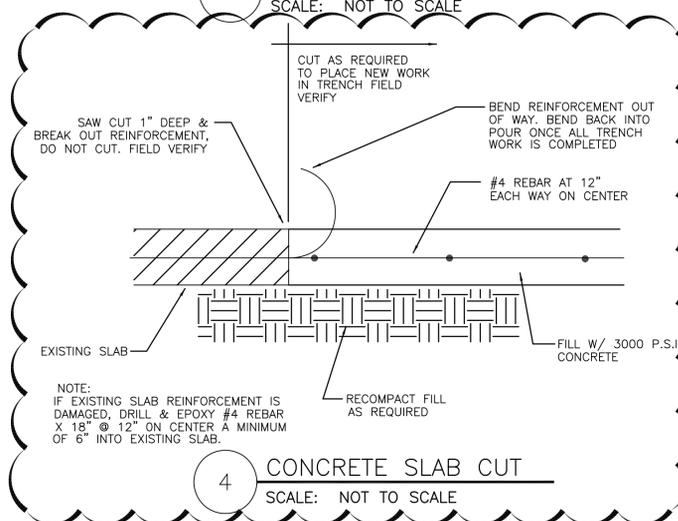
GENERAL NOTE:
 PROVIDE ONE MONITORING WELL NEAR SERVICE CONNECTION TO CITY OF SAN ANTONIO MAIN DISTRIBUTION LINE TO SITE.
 PROVIDE ONE MONITORING WELL NEAR AND DOWNSTREAM OF GREASE TRAP.

- 10" DIAMETER CAST IRON SEWER BOX
- 24"x24"x6" CONCRETE PAD
- TEST MONITOR
- FINISHED GRADE
- SIZE PER PLAN
- 6" SAMPLING RISER



MONITORING WELL

SCALE: NOT TO SCALE



CONCRETE SLAB CUT

SCALE: NOT TO SCALE

NOTE: EQUIPMENT SCHEDULE, LAYOUT & ELEVATIONS PROVIDED BY JEAN'S RESTAURANT SUPPLY, (361) 884-9800.

KITCHEN EQUIPMENT SCHEDULE

Item No	Qty	Equipment Category	Manufacturer	Model Number	Amps	KW	HP	Volts	Phase	Cycle	Direct	Plug	NEMA	Cold Water Size (in)	Hot Water Size (in)	Direct Drain Size (in)	Indir Drain Size (in)	Gas Size (in)	MBTUH
1	1	Hot Plate, Gas	Wolf Range	AHP636	-	-	-	-	-	-	-	-	-	-	-	-	-	0.75	180
1A	1	Hose, Gas	Dormont Manufacturing	1675KIT48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	1	Griddle, Gas	Wolf Range	AGM24	-	-	-	-	-	-	-	-	-	-	-	-	-	0.75	54
2A	1	Stand, Equipment	Advance Tabco	ES-305C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2B	1	Hose, Gas	Dormont Manufacturing	1675KIT48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	1	Oven, Convection, Electric	Vulcan	VC4ED	35	12.5	0.5	208	3	60	X	-	-	-	-	-	-	-	-
4	1	9'-6" Vent Hood	Captive-Aire	Exahust 1758 C.F.M.	15.0	-	-	115	1	60	X	-	-	-	-	-	-	-	-
4.1	1	Exhaust Fan KEF-1	Captive-Aire	DU85HFA	2.6	-	0.75	208	3	60	X	-	-	-	-	-	-	-	-
5	1	Ice Maker w/o Bin	Scotsman	C0530SA-32	7.8	-	-	230	1	50	X	-	-	.375	-	-	0.75	-	-
6A	1	Coffee/Tea Maker	Bunn-O-Matic	36700.0059	14.4	1.73	-	120	1	60	-	X	5-15P	0.25	-	-	-	-	-
6B	1	Coffee Maker, Automatic	Bunn-O-Matic	23001.0069	11.4	2.75	-	120/208	1	60	-	-	-	0.25	-	-	-	-	-
7	1	Washer, Undercounter, High Temp	Hobart US Foodservice	LXEH-2	30.5	6.7	0.8	120/208-240	1	60	X	-	-	-	0.75	-	0.75	-	-
8	1	Buffet/Cafeteria, Hot Food-Soup Station	Vollrath	38118	13.3	3.2	-	208-240	1	60	-	X	6-20P	-	-	-	-	-	-
9	1	Sink, NSF, 3 comp, 16 gauge	Advance Tabco	93-3-54	-	-	-	-	-	-	-	-	-	0.5	0.5	1.5	-	-	-
9A	1	Pre-Rinse Faucet, Backsplash Mount	Fisher	34436	-	-	-	-	-	-	-	-	-	0.5	0.5	-	-	-	-
11	2	Table, Work, 18 gauge, Flat Top w/ Undershelf	Advance Tabco	MSLAG-306-X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11A	1	Pot Rack, Table Mount	Advance Tabco	SCT-72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	1	Oven, Microwave	ACP, Inc.	RCS10TS	13.0	1.6	-	120	1	60	-	X	5-15	-	-	-	-	-	-
14	1	MultiStation Worktable	Metro	MS1848-FSPR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1	Hand Sink, Wall Mount	Advance Tabco	7-PS-60-1X	-	-	-	-	-	-	-	-	-	0.5	0.5	1.5	-	-	-

KITCHEN EQUIPMENT BY KITCHEN VENDOR PER ARCHITECTURAL SHEET A3.1. REFER TO ARCHITECTURAL SHEET A1.3 FOR ADDITIONAL INFORMATION.

GREASE INTERCEPTOR SCHEDULE

MODEL NO.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	INLET FL2
GT-2000	2000	4600	24,500	9'-0"	6'-0"	8'-0"	6'-9"	6'-6"

Engineering Data

The grease interceptor is structurally & hydraulically engineered to conform to regional plumbing codes recommended in most cities. Consult with local authorities for specific application requirements.

Shop drawings shall include complete structural & buoyancy calculations certified by a licensed professional engineer. Consult with Park Environmental Equipment Company for exact excavation & dimensions shipping information.

Specifications

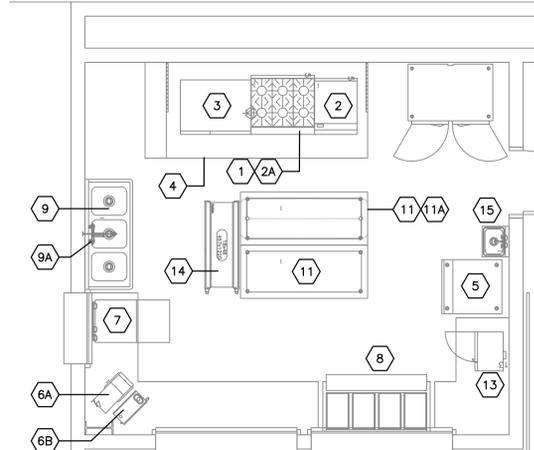
CONCRETE : Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor, first stage of wall and baffle with sectional riser to required depth. (Monolithic baffle required, slide-in type is not acceptable)

REINFORCEMENT: Grade 60 reinforced with steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS: Manhole frames, covers or grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30. Manhole shall be nominal 24-inch diameter and be traffic duty.

GREASE INTERCEPTOR CALCULATIONS

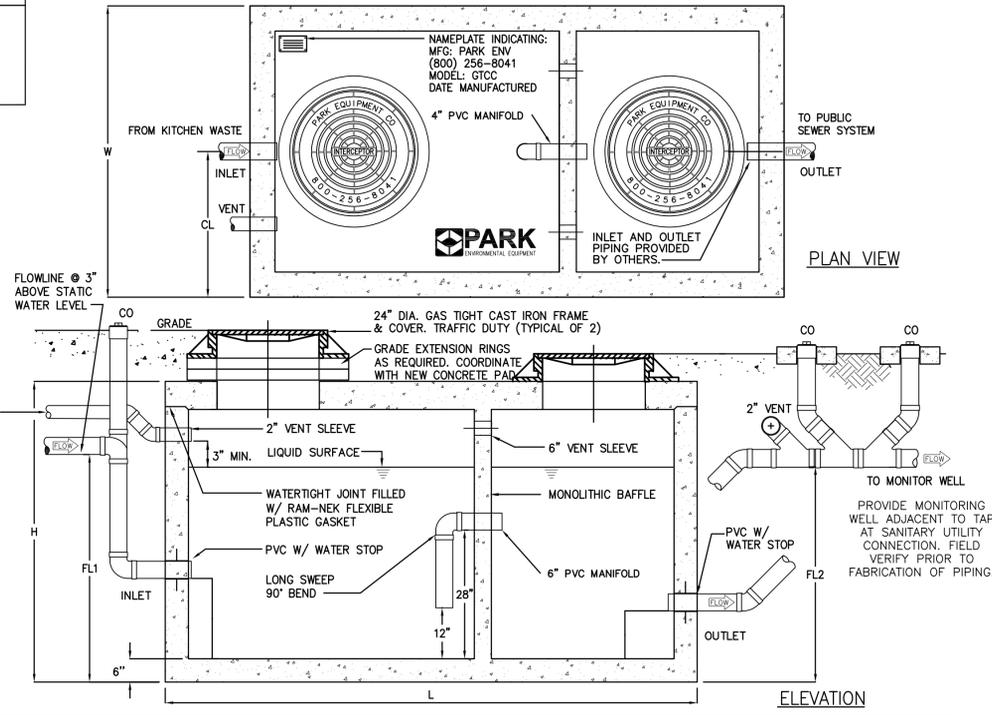
#	FIXTURE	TOTAL FU	CALCULATIONS PER INTERNATIONAL PLUMBING CODE REQUIREMENTS.
1	3 COMPARTMENT SINK	9 FU	CALCULATIONS PER INTERNATIONAL PLUMBING CODE REQUIREMENTS.
2	FLOOR DRAIN	6 FU	
1	FLOOR SINK	3 FU	
TOTAL FIXTURE UNITS		18 FU	AT 7.5 GPM/FU = 135 GPM
PRIMARY COMPARTMENT WITH A 7 MINUTE HOLDING TIME		135 GPM * 7 MIN =	945 GAL.
SECONDARY COMPARTMENT WITH A 5 MINUTE HOLDING TIME		135 GPM * 5 MIN =	675 GAL.
TOTAL SIZE OF REQUIRED GREASE INTERCEPTOR TANK		945 GAL. + 675 GAL. =	1620 GAL.



PLUMBING CONTRACTOR SHALL PROVIDE UTILITY SERVICES AS REQUESTED BY KITCHEN EQUIPMENT SCHEDULE. COORDINATE WITH ARCHITECT, GENERAL CONTRACTOR, AND KITCHEN EQUIPMENT VENDOR PRIOR TO STARTING WORK TO AVOID DISRUPTION, DUPLICATION, AND/OR DELAY.

KITCHEN EQUIPMENT LAYOUT

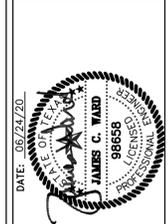
SCALE: NOT TO SCALE



GREASE INTERCEPTOR

SCALE: NOT TO SCALE

Inc
GPM
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ISSUES / REVISIONS

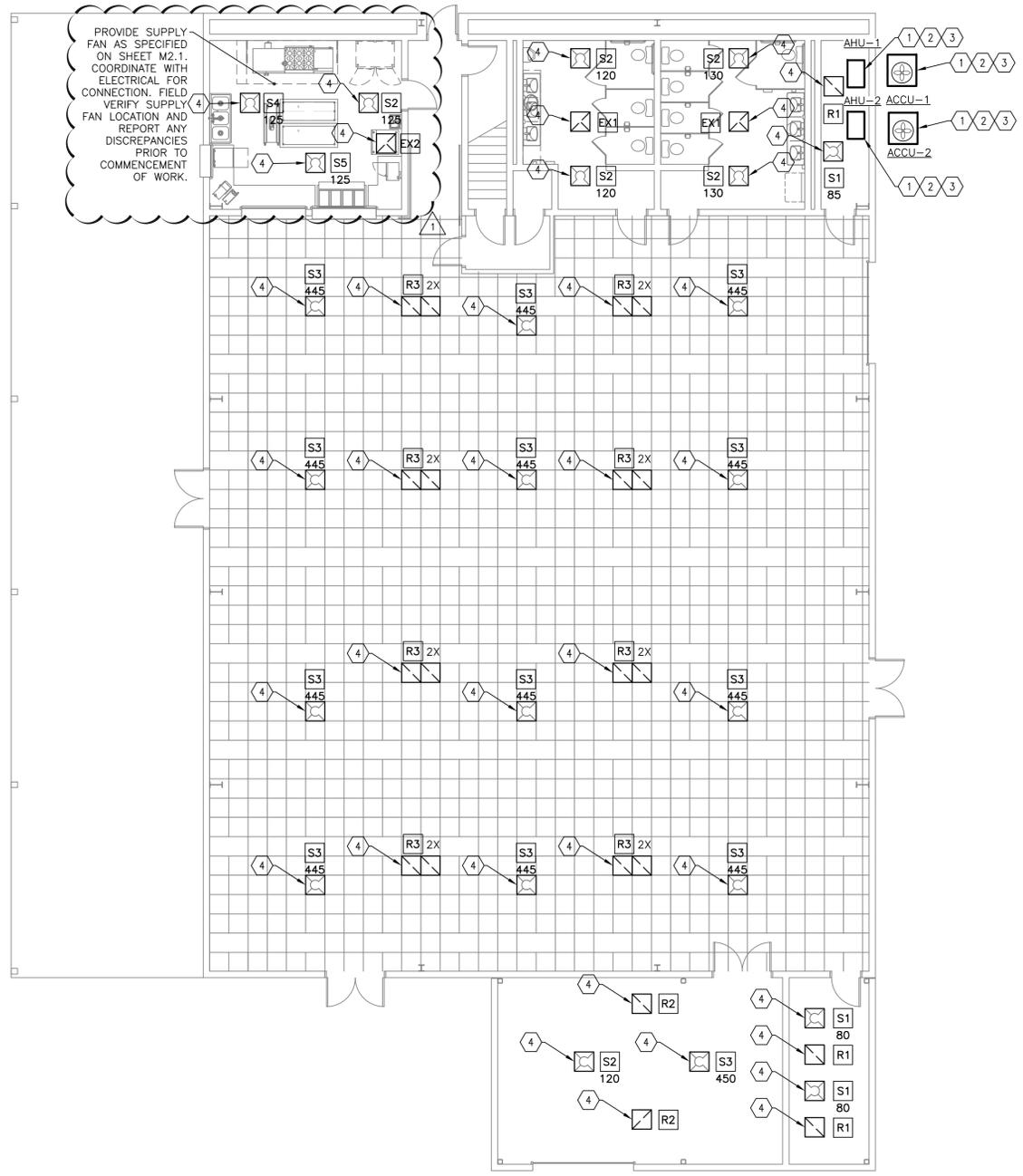
NO.	DATE	DESCRIPTION
1	07/07/2020	ADDED

LEON VALLEY COMMUNITY CENTER UPGRADES
LEON VALLEY, TEXAS
PLUMBING SCHEDULES

TEBELES REGISTERED FIRM NO. 10585
 SURVEYING FIRM 102660
LNV
 an Andorra Company
 ARCHITECTURAL FIRM BR599
 601 NAVASOTA BLVD, SUITE 300
 CORPUS CHRISTI, TX 78408
 PH: (361) 852-1984
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DRAWING NO.: **P2.1**
 3 of 5
 DRAWN BY: RS
 CHECKED BY: JW
 APPROVED BY: JW
 JOB NO.: 20111

2/20/2011 11:11 AM
 Thursday, July 23, 2020 1:50pm



HVAC KEYED NOTES:

- 1 PROVIDE AIR HANDLING UNIT. INSTALL AIR HANDLING UNIT HIGH ENOUGH TO ALLOW CONDENSATE P-TRAP TO BE INSTALLED. FIELD VERIFY EXACT FINAL LOCATION OF AHU INSTALLATION PRIOR TO PURCHASE OF AIR HANDLING UNIT AND SUPPORTS. PROVIDE RETURN AIR AND OUTSIDE AIR DAMPER FOR BALANCING. PROVIDE MCDANIEL METALS ACCOMMODATOR OR EQUAL FILTER HOUSING BOX; INSTALL FOR EASE OF REMOVAL OF FILTER. PROVIDE THERMOSTAT WHERE INDICATED. PROVIDE CONTROL WIRING. FURNISH A COMPLETE FUNCTIONAL SYSTEM. VERIFY LOCATION OF DUCT PENETRATION THROUGH CEILING WITH ELECTRICAL CONTRACTOR FOR LIGHT INSTALLATION COORDINATION. PROVIDE CONDENSATE DRAIN LINE, INSULATION WITH INSULATION CONTINUOUS THROUGHOUT SUPPORTS, AND ROUTE AS INDICATED. FIELD VERIFY ROUTING PRIOR TO INSTALLATION. PROVIDE AUXILIARY CONDENSATE DRAIN. PROVIDE WATER DETECTION SWITCH TO TURN UNIT OFF ON DETECTION OF WATER IN AUXILIARY DRAIN PAN.
- 2 PROVIDE AIR COOLED CONDENSING UNIT. PROVIDE REFRIGERANT LINES, INSULATION, AND SUPPORTS. PROVIDE COIL COATING ON CONDENSER COILS AND HAIL GUARDS. PROVIDE HOUSEKEEPING PAD. INSTALL UNITS TO CONFORM TO TEXAS WINDSTORM INSURANCE AGENCY REQUIREMENTS. FIELD VERIFY ROUTING OF REFRIGERANT LINES. REFRIGERANT LINE INSULATION SHALL BE CONTINUOUS THROUGHOUT SUPPORTS. COORDINATE WITH EQUIPMENT SUPPLIER FOR FINAL SIZE OF REFRIGERANT LINES AND ALL REQUIRED ACCESSORIES. FURNISH A COMPLETE, FUNCTIONAL SYSTEM.
- 3 PROVIDE GALVANIZED STEEL DUCTWORK AND SUPPORTS. FIELD VERIFY ROUTING PRIOR TO DUCTWORK FABRICATION. PROVIDE DUCT INSULATION. DUCT INSULATION SHALL BE CONTINUOUS THROUGHOUT DUCTWORK SUPPORTS.
- 4 PROVIDE NEW AIR DEVICE. RELOCATE AIR DEVICE TO SHOWN LOCATION. CONNECT NEW AIR DEVICES TO EXISTING MAIN DUCTWORK. FIELD VERIFY PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES.

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

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	07/07/2020	ADDITIONAL

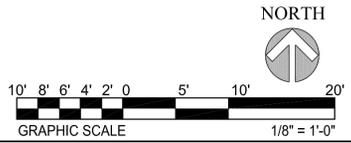
LEON VALLEY COMMUNITY CENTER UPGRADES
LEON VALLEY, TEXAS
HVAC FLOOR PLAN

LNV
 an Ardura Company
 601 NAVASOTA, SUITE 300
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 WWW.LNVINC.COM

DRAWING NO.: **M1.1**

2 of 6

DRAWN BY: CZ
 CHECKED BY: JW
 APPROVED BY: JW
 JOB NO.: 20111





DATE: 06/24/20

NO.	DATE	DESCRIPTION
1	07/07/2020	ISSUES / REVISIONS

AIR HANDLING UNIT SCHEDULE

MARK	FAN				COOLING COIL				GAS-FIRED DUCT HEATER		PHYSICAL PROPERTIES				FILTER		MFG & MODEL NO.	NOTES					
	TOTAL CFM	O/A CFM	ESP (IN)	FAN HP	VOLTAGE/PHASE	ROWS	FINS	FACE AREA (SQFT)	EAT DB/WB	LAT DB/WB	TOTAL COOLING (MBTU)	SENSIBLE COOLING (MBTU)	INPUT (MBTU)	OUTPUT (MBTU)	EAT/LAT DB	LENGTH (IN)			WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	SIZE/THICKNESS (IN)	NUMBER
AHU-1	8000	900	0.40	5	208/3	4	15	16.5	77.6/64.2	55.0/54.0	222.6	187.4	225	180	69.5/85.3	77	63	39	545	20X25X1	6	RUUD RGH1240ZK	ALL APPLY
AHU-2	8000	900	0.40	5	208/3	4	15	16.5	77.6/64.2	55.0/54.0	222.6	187.4	225	180	69.5/85.3	77	63	39	545	20X25X1	6	RUUD RGH1240ZK	ALL APPLY

- NOTES:**
- INSTALL UNIT IN THE VERTICAL POSITION.
 - INSTALL UNIT IN THE HORIZONTAL POSITION.
 - DOUBLE WALLED, FORMED CABINET SYSTEM.
 - COOLING COIL WITH HARD SHUTOFF NON-BLEED TXV SUITABLE FOR USE WITH R-410A REFRIGERANT.
 - PVC IAQ DRAIN PAN.
 - INSULATED CASING WITH MINIMUM R=4.2 INSULATION.
 - DOOR SEALS WITH THERMAL BREAKS.
 - PROVIDE SERVICE ACCESS DOORS WITH AIR TIGHT SEAL.
 - PROVIDE INTEGRAL FACTORY INSTALLED AND WIRED CONTROLS: LOW VOLTAGE TRANSFORMER, CONTROL WIRING TERMINAL STRIP AND HEAT CONTROLS.
 - FOR VERTICAL AHU MOUNTING, PROVIDE MCDANIELS METALS LABOR SAVER FILTER HOUSING WITH FILTER RACK AND RETURN OPENING.
 - FOR HORIZONTAL AHU MOUNTING, PROVIDE MCDANIELS METALS RETURN AIR FILTER IN RETURN AIR DUCT DOWNSTREAM OF OUTSIDE AIR INTAKE TAP IN ORDER TO FILTER BOTH THE RETURN AND OUTSIDE AIR INTAKE WITH A SINGLE CHANGEABLE FILTER.
 - MAINTAIN MANUFACTURER'S RECOMMENDED DISTANCE FOR MAINTENANCE AND SERVICE.
 - THREE PHASE POWER TO HEATER WITH SINGLE PHASE POWER TO EVAPORATOR FAN MOTOR. PROVIDE MANUFACTURER'S RECOMMENDED TRANSFORMER. PROVIDE WIRING BETWEEN HEATER AND EVAPORATOR FAN MOTOR. COORDINATE WITH ELECTRICAL DIVISION FOR POWER.
 - INSTALL UNIT WITH ENOUGH ELEVATION TO ALLOW FOR P-TRAP INSTALLATION AND FOR PROPER CONDENSATE DRAIN FLOW.
 - PROVIDE GAS-FIRED DUCT FURNACE, MODEL No. QVED-225. CONNECT EXISTING FLUE TO NEW DUCT FURNACE. CONNECT CONCENTRIC VENT ACCORDINGLY. FIELD VERIFY LOCATION OF FLUE AND CONCENTRIC VENT PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES.
 - PROVIDE SMOKE DETECTORS IN SUPPLY AND RETURN AIR DUCTWORK. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER.

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	SERVES	AMBIENT (F)	CONDENSING CAPACITY	EFFICIENCY (EER)	PHYSICAL PROPERTIES				REFRIGERANT LINES				ELECTRICAL				MFG & MODEL NO.		
					WEIGHT (LBS)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	TYPE	NUMBER	LIQUID (ø IN)	SUCTION (ø IN)	VOLTAGE/PHASE /HERTZ	COMP RLA	FAN NUMBER	FAN FLA		MCA	MOCP
ACCU-1	AHU-1	98.1	20 TON	10.0	952	88	39	45	R-410A	1	7/8	1 5/8	208/3/60	33.3	3	7.2	83	110	RHEEM RAWL240CAZ
ACCU-2	AHU-2	98.1	20 TON	10.0	952	88	39	45	R-410A	1	7/8	1 5/8	208/3/60	33.3	3	7.2	83	110	RHEEM RAWL240CAZ

- NOTES:** (APPLIES TO ALL UNITS)
- PROVIDE FACTORY RECOMMENDED COIL COATING AND APPLICATION METHOD ON CONDENSING UNIT COIL.
 - PROVIDE HARD-START KITS AS REQUIRED BY EQUIPMENT MANUFACTURER.
 - REFRIGERANT PIPE SIZES SHOWN ARE FOR REFERENCE PURPOSES ONLY. CONFIRM EXACT SIZES WITH MANUFACTURER AND ADJUST AS NECESSARY. COMPLETE REFRIGERANT PIPING INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE STRAINER/DRYER (CAPSULE TYPE) AND SIGHT GLASS AT EACH CONDENSING UNIT. SIGHT GLASS INSTALLED OUTDOORS MUST BE CONSTRUCTED OF COPPER, BRASS, OR OTHER NON-FERROUS MATERIAL.
 - PROVIDE TIME DELAY KIT TO PREVENT SHORT CYCLING OF CONDENSING UNIT.
 - PROVIDE LOW/HIGH PRESSURE SWITCHES: MANUAL RESET.
 - PROVIDE WITH CONDENSER FAN LOW AMBIENT FAN CONTROL.
 - PROVIDE COMPRESSOR CRANK CASE HEATER.
 - MAINTAIN MANUFACTURER'S RECOMMENDED DISTANCE FOR MAINTENANCE.
 - PROVIDE CONCRETE MAINTENANCE PAD AND HAIL GUARD.
 - PROVIDE 3/8" RIBBED NEOPRENE ISOLATION PADS UNDER CONDENSING UNIT FEET (KORFUND OR EQUAL).

AIR DEVICES SCHEDULE

MARK	NECK SIZE	SERVICE	MOUNTING	DAMPER	MFG. & MODEL	REMARKS
S1	6"ø	SUPPLY	LAY-IN	IN DUCT	TITUS OMNI-AA	24"X24" MODULE SIZE, ALUMINUM, WHITE
S2	8"ø	SUPPLY	LAY-IN	IN DUCT	TITUS OMNI-AA	24"X24" MODULE SIZE, ALUMINUM, WHITE
S3	12"ø	SUPPLY	LAY-IN	IN DUCT	TITUS OMNI-AA	24"X24" MODULE SIZE, ALUMINUM, WHITE
S4	10x6	SUPPLY	LAY-IN	IN DUCT	TITUS 50F	24"X24" EGG CRATE, LAMINAR FLOW, 100 FPM
S5	6x6	SUPPLY	LAY-IN	IN DUCT	TITUS TDC-AA	2 WAY-THROW, ALUMINUM, WHITE
R1	6"ø	RETURN	LAY-IN	IN DUCT	TITUS PAR-AA	ALUMINUM, 12"X12" PANEL, WHITE.
R2	8X8	RETURN	LAY-IN	IN DUCT	TITUS PAR-AA	ALUMINUM, 24"X24" PANEL, WHITE.
R3	16"ø	RETURN	LAY-IN	IN DUCT	TITUS PAR-AA	ALUMINUM, 24"X24" PANEL, WHITE.
E1	12X10	EXHAUST	LAY-IN	IN DUCT	TITUS 350FL	ALUMINUM, SIDEWALL INSTALLATION, WHITE. 75" DEFLECTION, 3/4" BLADE SPACING.
E2	8x6	EXHAUST	LAY-IN	IN DUCT	TITUS 50F	24"X24" EGG CRATE, LAMINAR FLOW, 100 FPM

- NOTES:** APPLIES TO ALL UNITS
- PROVIDE INSULATION BLANKET ON REAR OF ALL AIR DEVICES.
 - WHEN NOTED, PROVIDE ADJUSTABLE AIR VOLUME CONTROL DAMPER ON AIR DEVICE.
 - CONTRACTOR IS RESPONSIBLE TO PROVIDE AIR DEVICE FRAME AND MOUNTING SYSTEM TO MATCH ARCHITECTURAL CEILING TYPES. COORDINATE WITH ARCHITECTURAL DRAWINGS. FIELD VERIFY FINAL AIR DEVICE LOCATION WITH ARCHITECTURAL CEILING PLAN PRIOR TO PURCHASE OF AIR DEVICE.
 - PROVIDE SQUARE TO ROUND DUCT TRANSITION TO AIR DEVICES AS REQUIRED FOR EACH AIR DEVICE APPLICATION.
 - COLOR WHITE ON ALL AIR DEVICES. CONFIRM AIR DEVICE COLOR WITH ARCHITECT PRIOR TO PURCHASE.
 - FIELD VERIFY ROUTING OF FLEX DUCT. DO NOT CRIMP DUCT.
 - ON SURFACE MOUNTED FRAMES, PROVIDE FOAM GASKET AND CONCEALED FRAME MOUNTING. NO SCREWS SHALL BE VISIBLE IN FACE OF FRAME.
 - ON CEILING SURFACE MOUNTED FRAMES, PROVIDE RAPID MOUNT FRAME.
 - ALL AIR DEVICES SHALL BE ALUMINUM CONSTRUCTION.
 - PROVIDE SQUARE TO ROUND DUCT TRANSITION AS REQUIRED TO CONNECT AIR DEVICES TO DUCTWORK.

AIR BALANCE

MARK	OA INTAKE	EXHAUST	OTHER
AHU-1	900	-	-
AHU-2	900	-	-
SUPPLY FAN	1342	-	-
RESTROM 1	-	240	-
RESTROM 2	-	260	-
HOOD	-	1750	-
KITCHEN EX	-	100	-
SUBTOTAL	3142	2360	-

TOTAL PRESSURIZATION:
 TOTAL OUTSIDE AIR INTAKE : 3142 CFM
 TOTAL EXHAUST AIR : 2360 CFM
 AVAILABLE OUTSIDE AIR INTAKE FOR PRESSURIZATION AT FULL OCCUPANCY AND EQUIPMENT LOAD : 782 CFM

SUPPLY FAN SCHEDULE

MARK	SERVICE	CFM	S.P.	HP	RPM	FAN TYPE	DRIVE TYPE	CONTROL	SONES	WEIGHT (LBS)	MANUFACTURER MODEL	REMARKS
SF-1	KITCHEN	1342	0.51	0.317	1143	IL	D	S	8.6	270	COOK KSPD-127	ALL APPLY

- NOTES:**
- PROVIDE THERMAL PROTECTION.
 - PROVIDE INTERNAL DISCONNECT SWITCH, FACTORY MOUNTED.
 - PROVIDE WITH SPEED CONTROL MOUNTED WITHIN REACH OF FAN. PROVIDE LABEL ON FAN INDICATING LOCATION OF FAN SPEED CONTROLLER.
 - PROVIDE INTEGRAL BACKDRAFT DAMPER.
 - PROVIDE RUBBER IN SHEAR VIBRATION ISOLATOR.
 - INSTALL FOR EASE OF MAINTENANCE, REPAIR, AND REMOVAL.
 - MAINTAIN CODE REQUIRED DISTANCES TO OUTSIDE AIR INTAKES. COORDINATE WITH OUTSIDE AIR INTAKE INSTALLATIONS PRIOR TO INSTALLATION OF FAN DISCHARGE.
 - PROVIDE WITH DISCHARGE LOUVER.
- FAN TYPE:
 IL - INLINE FAN.
- DRIVE TYPE:
 D - DIRECT DRIVE
- CONTROL:
 S - SWITCH