

				LANDLORI		NERAL		VORK	XPRE		RESPONSIB
		N/A	EXISTING	FURNISHED	CONT	RACTOR INSTALLED	FURNISHED	ACTOR INSTALLED	FURNISHED	INSTALLED   200	
1	<u>GENERAL</u>		_ ш		<u> </u>	<u>Z</u>	<u>                                     </u>	<u> </u>	곱	<u> </u>	REMARKS
	BUILDING PERMIT  OTHER PERMITS, FEES, INSURANCE				•						
	CERTIFICATE OF INSURANCE				•	•					
	CLEAN UP AND FINAL CLEANING				•	•					
	TRASH REMOVAL AND DUMPSTER				•	•					G.C. TO COORDINATE WITH AIRPORT  IF REQUIRED
	ASBESTOS SURVEY HAZ-MAT ABATEMENT				•						AS REQUIRED PER PROJECT SCOPE
	TEMPORARY BARRICADE AND REMOVAL				•	•					
	TEMPORARY BARRICADE GRAPHICS					<u> </u>			•	•	UNLESS BY AIRPORT OR REQUIRED AIRPORT VENDOR
2	DEMOLITION  FLOOR CONSTRUCTION				•						
	WATERPROOF FLOOR MEMBRANE				•	•					
	CONCRETE SLAB				•	•					G.C. TO PATCH AND REPAIR AS REQUIRED
	X-RAY CORE DRILLING SLAB PENETRATION				•						AS REQUIRED PER SCOPE  LEVEL EXISTING CONCRETE SLAB AS REQ'D FOR NEW FINISH APPLICATION
	VAPOR BARRIER				•	•					AS REQUIRED FOR NEW OR EXISTING PENETRATIONS
	EXPANSION/CONTROL JOINT		•		•	•					PROVIDE NEW COVER PLATE AS REQ'D. G.C. TO COORDINATE WITH AIRPORT
3	WALL CONSTRUCTION					<u> </u>					
	CARPENTRY, ROUGH, AND FINISH				•	•					
	BLOCKING AND FURRING DEMISING WALL STUDS				•	•					AS REQ'D. COORDINATE WITH MILLWORK CONTRACTOR WHEN APPLICABLE
	DEMISING WALL GYP. BOARD										
	METAL STUDS, GYP. BOARD, ETC.				•	•					
	TAPING, SPACKLING, ADHESIVES, ETC.				•	•					-
	DOORS AND FRAMES  DOOR HARDWARE	-									1
4	CEILINGS										
	GYP. BOARD CEILINGS AND SOFFITS				•	•					
	SUSPENDED T-BAR CEILING AND GRID TILES				-	•					
	ACCESS PANELS STOREGRONT										
5	STOREFRONT STRUCTURAL STEEL FRAMING					•					IF REQUIRED
	MILLWORK PORTAL						•	•			G.C. TO PROVIDE FRAMING. COORDINATE WITH MILLWORK CONTRACTOR
	STOREFRONT GRAPHICS ARTWORK								•	•	G.C. TO COORDINATE WITH SIGNAGE VENDOR
	STOREFRONT PAINT AND FINISHES GLASS PANELING WITH GRAPHICS				•	•					G.C. TO COORDINATE WITH MILLWORK CONTRACTOR
	CONTINUOUS REVEAL AT NEUTRAL PIERS/BULKHEAD					+					
	STOREFRONT SECURITY GRILLE				•	•					G.C. TO COORDINATE WITH VENDOR
6	FRAMING, BLOCKING, AND BACKING FOR GRILLE SIGNAGE				•	•					
0	STOREFRONT SIGNAGE				•				•	•	G.C. TO COORDINATE WITH SIGNAGE VENDOR
	STOREFRONT SIGN ASSEMBLY				•	•			•	•	G.C. TO COORDINATE WITH SIGNAGE VENDOR
	STOREFRONT BLADE SIGN MOUNTING AND BRACKET	•							_		
7	INTERIOR SIGNAGE FINISHES										G.C. TO COORDINATE WITH SIGNAGE VENDOR
<u>'</u>	PAINTING				•	•					
	FLOOR TILE				•	•					G.C. TO COORDINATE WITH VENDOR
	GROUT FOR FLOOR TILES  AIRPORT FLOORING		•		•	•					G.C. TO REPAIR AIRPORT FLOOR FINISH AROUND STOREFRONT AS REQ'D
	BASE				•						G.G. TO REPAIR AIRPORT FLOOR FINISH AROUND STORE ROINT AS REQU
	WALL COVERING				•	•					
0	CORNER GUARDS				•	•					
8	FIXTURES  EQUIPMENT, INCLUDING CHAIRS					•			•		TRANSPORT TO SPACE, PROTECT, INSTALL BY G.C.
	RETAIL DISPLAY FIXTURES					•	•	•	-		TRANSPORT TO SPACE, PROTECT, INSTALL BY MILLWORKER
	LOOSE FIXTURES	_				•	•	•			TRANSPORT TO SPACE, PROTECT, INSTALL BY MILLWORKER
	CABINETRY					•	•	•			TRANSPORT TO SPACE, PROTECT, INSTALL BY MILLWORKER
	RETAIL BASE CABINET						•	•			TRANSPORT TO SPACE, PROTECT, INSTALL BY MILLWORKER
9	MECHANICAL HVAC UNITS					•					REFER TO MECHANICAL DRAWINGS FOR SCOPE OF WORK
	HVAC DISTRIBUTION-DUCTWORK, DIFFUSERS, ETC.				•						REFER TO MECHANICAL DRAWINGS FOR SCOPE OF WORK
_	RETURN AIR GRILLES				•	•					REFER TO MECHANICAL DRAWINGS FOR SCOPE OF WORK
	THERMOSTAT AIR BALANCES				•	•					REFER TO MECHANICAL DRAWINGS FOR SCOPE OF WORK  REFER TO MECHANICAL DRAWINGS FOR SCOPE OF WORK
	EXHAUST FAN AND ROOF PENETRATION										THE LIVE OF MILOTIFICAL DIVANNINGS FOR SOUTE OF WORK
	HVAC FILTER CHANGE				•	•					G.C. TO REPLACE ALL HVAC FILTERS BEFORE AND AFTER CONSTRUCTION
10	HVAC EQUIPMENT RELOCATION				•	•					
10	ELECTRICAL ELECTRICAL SERVICE/CONDUIT TO SPACE		•		•	•					REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK
	ELECTRICAL PANELS										REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK
	WIRING, CIRCUITING, RECEPTACLES, SWITCHES, ETC.				•	•					G.C. TO COORDINATE WITH AIRPORT
	EMERGENCY LIGHTING LIGHT FIXTURES AND LAMPS				•	•			•		REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK  REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK
	EXIT SIGNS					•			•		REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK  REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK
	CONNECTION AND WIRING OF CASHWRAP				•	•					REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK
			1	1 1			1	1	1 -	1	REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK
	FINAL CONNECTIONS FOR SIGNS					-					
	FINAL CONNECTIONS FOR SIGNS  TELEPHONE SYSTEM CABLE  TELEPHONE, POS SYSTEM				•	•					REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK

				LAND	LORD	GENI CONTR		MILLV CONTR		XPRE: VENI		
		N/A	EXISTING	FURNISHED	INSTALLED	FURNISHED	INSTALLED	FURNISHED	INSTALLED	FURNISHED	INSTALLED	REMARKS
S	ECURITY CAMERA									•	•	GC TO PROVIDE CAT 6 WIRING FROM IT RACK TO CAMERA LOCATIONS & TERMINATE.
11 <u>P</u>	LUMBING											
S	INKS					•	•					
F.	AUCETS					•	•					
12 <u>F</u>	IRE PROTECTION	•		•	•	•	•	•			•	
F	IRE SPRINKLER SYSTEM AND DRAWINGS					•	•					G.C. TO CONTRACT SUB FOR FIRE PROTECTION DRAWINGS AS REQUIRED
F	IRE SHUT OFF					•	•					AS REQUIRED. COORDINATE WITH AIRPORT
F	IRE ALARM/SMOKE DETECTORS AND DRAWINGS					•	•					G.C. TO CONTRACT SUB FOR FIRE PROTECTION DRAWINGS AS REQUIRED
F	IRE EXTINGUISHERS					•	•					COORDINATE QUANTITY, SIZES, AND LOCATIONS WITH FIRE MARSHALL.
13 <u>P</u>	OST CONSTRUCTION							•				
F	INAL CLEANUP FOR OCCUPANCY					•	•					(2) CLEAN-UPS. OBTAIN STANDARDS AND COORDINATE WITH TENANT.
С	ERTIFICATE OF OCCUPANCY					•	•					
Р	UNCHLIST COMPLETION						•					MUST BE COMPLETED WITHIN 30 DAYS OF TURNOVER

# **GENERAL NOTES**

IF ANY ITEM IS NOT LISTED ON THIS SCHEDULE, IT SHOULD BE THE RESPONSIBILITY OF THE

CONTRACTOPRIOR FOR INSTACE TO BUILDING FACTOR SHALL HAVE EVIDENCE OF CURRENT WORKERS COMPENSATION INSURANCE COVERAGE ON FILE WITH THE DEPARTMENT OF LABOR IN COMPLIANCE WITH THE LOCAL LABOR CODE.

2. ANY ITEM SHOWN ON DRAWINGS AS NEW CONSTRUCTION, BUT NOT SPECIFICALLY ADDRESSED IN RESPONSIBILITY SCHEDULE SHALL BE ASSUMED TO BE GENERAL CONTRACTOR FURNISHED AND INSTALLED.

3. IF SCOPE OF RESPONSIBILITY ON SCHEDULE IS IN CONFLICT WITH DRAWINGS OR SPECIFICATIONS, GENERAL CONTRACTOR MUST NOTIFY ARCHITECT AND TENANT'S CONSTRUCTION MANAGER IMMEDIATELY.

4. AFTER OBTAINING BUILDING PERMIT AND BEFORE COMMENCING WITH THE WORK, THE GENERAL CONTRACTOR SHALL PROVIDE EVIDENCE OF ALL INSURANCE REQUIREMENTS TO THE LANDLORD AND THE TENANT'S CONSTRUCTION MANAGER

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND OBTAIN ALL PERMITS AND LICENSES AND PAY REQUIRED FEES AND TO BE REIMBURSED FOR ACTUAL FEE PAID.

6. CONTRACTOR SHALL BE FAMILIAR WITH ALL LANDLORD REQUIREMENTS (SHOPPING CENTER CRITERIA), AND SHALL BE RESPONSIBLE FOR COMPLIANCE WITH SAME. CONTRACTOR SHALL INVESTIGATE LOCAL CODES AND PROCEDURES AND SHALL COMPLY WITH ALL REQUIREMENTS.

7. CONTRACTOR SHALL MEET WITH LANDLORD'S TENANT COORDINATOR MANAGER OR TENANT'S CONSTRUCTION MANAGER AS REQUIRED BEFORE CONSTRUCTION COMMENCES.

8. INSPECT SITE, VERIFY FIELD DIMENSIONS BEFORE COMMENCING CONSTRUCTION. NOTIFY TENANT'S CONSTRUCTION MANAGER IMMEDIATELY IF THERE ARE ANY SIGNIFICANT DISCREPANCIES.

9. CONTRACTOR SHALL, IN THE WORK OF ALL TRADES, PERFORM ANY AND ALL CUTTING, PATCHING, REPAIRING, RESTORING AND THE LIKE NECESSARY TO COMPLETE THE WORK AND TO RESTORE ANY DAMAGED OR AFFECTED SURFACES RESULTING FROM THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF TENANT'S C.M.

10. GENERAL CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ATTENTION OF TENANT'S C.M. FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ARRIVAL OF ALL G.C. PROVIDED AND SPECIFIED FINISH MATERIALS, EQUIPMENT AND ANY OTHER SUCH MATERIAL(S) TO BE UTILIZED ON THIS PROJECT. THE GENERAL CONTRACTOR SHALL NOTIFY TENANT'S C.M. IN WRITING WITHIN 10 DAYS OF DATE OF CONTRACT OF THOSE SPECIFIED ITEMS THAT MAY NOT BE READILY AVAILABLE. IF NOTIFICATION IS NOT RECEIVED BY TENANT'S C.M. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR THE PROPER ORDERING AND FOLLOW UP OF SPECIFIED ITEMS AND WILL PURSUE WHATEVER MEANS NECESSARY AT NO ADDITIONAL COST TO TENANT, TO ASSURE AVAILABILITY OF ALL SPECIFIED ITEMS SO AS NOT TO CREATE A HARDSHIP ON TENANT AND NOT TO DELAY PROGRESS OF THE WORK. NO EXTENSIONS OF THE TIME TO THE CONTRACT WILL BE ALLOWED. MECHANICAL CONTRACTOR SHALL VERIFY EXACT DIMENSIONS WITH EQUIPMENT MANUFACTURES.

12. MECHANICAL CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS BEFORE INSTALLATION AND VERIFY DISCREPANCIES WITH TENANT'S C.M. IF ANY.

13. ALL EXTERIOR WALL OPENINGS, FLASHINGS, COUNTER FLASHINGS, COPING AND EXPANSION JOINTS SHALL BE WATERPROOF.

2. TO DETERMINE THE WORK OF THE CONTRACT, REVIEW ALL DRAWINGS, SPECIFICATIONS AND CONTRACT DOCUMENTS.

14. CAULKING AND SEALANTS: ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOP SHALL BE SEALED, CAULKED, GASKETED, OR WEATHERSTRIPPED TO LIMIT AIR LEAKAGE AND MEET CODE REQUIREMENTS.

15. USE FIRE RATED (IF REQUIRED BY CODE) SEALANT AROUND ALL PIPES, DUCTS, CONDUITS, OUTLETS, SWITCHES, ETC. ON BOTH SIDES OF CROSSING/PENETRAITING WALLS WITH THERMAL INSULATION.

16. EACH CONTRACTOR SHALL LEAVE THE SITE IN A NEAT, CLEAN AND ORDERLY CONDITION UPON THE CONCLUSION OF THE WORK ON A DAILY BASIS. ALL WASTE, RUBBISH AND EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE PROMPTLY IN AN APPROPRIATE MANNER. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL RECYCLING AND TRASH, INCLUDING TENANT'S FURNISHED ITEMS AND TRASHED GENERATED BY TENANT'S CONTRACTORS FOR THE DURATION OF THE PROJECT.

17. SAFETY: ALL CONDUCT, WORK, EQUIPMENT AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST SAFETY RULES AND REGULATIONS OF ALL AUTHORITIES AND AGENCIES HAVING JURISDICTION.

18. CONSULT UTILITY PLANS AND STRUCTURAL DRAWINGS BEFORE SAW CUTTING CONCRETE SLAB OR CORE DRILLING CONCRETE SLAB.

19. SIGN CONTRACTOR TO OBTAIN SIGN PERMITS FROM LOCAL BUILDING DEPARTMENT AS APPLICABLE.

20. ANY MATERIALS FOUND TO BE DEFECTIVE SHALL BE REMOVED AND REPLACE AT NO ADDITIONAL COST TO TENANT.

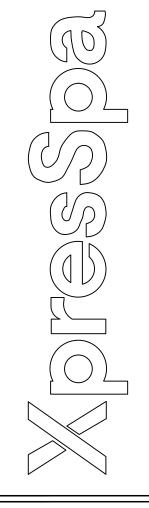
21. WORK COMPLETED BY OTHERS SHALL BE PROTECTED. IF OTHER TRADES CAUSE ANY DAMAGE, IT IS THE RESPONSIBILITY OF SAID TRADE TO COORDINATE REPAIRS WITH NO ADDITIONAL COST OR SCHEDULE CHANGES TO TENANT.

22. IT IS THE SUPERINTENDENT'S RESPONSIBILITY TO RECEIVE ALL TENANT'S FURNISHED ITEMS AND NOTIFY TENANT WITHIN 48 HOURS OF RECEIPT.

23. LIGHTS, EM & EXIT SIGN FURNISHED BY LIGHTING VENDOR, GC TO INSTALL.



311 Elm Street Suite 600 Cincinnati, OH 45202 513 241 3000



01.31.2020
REVISIONS

NELCO ARCHITECTURE, INC.



PROJECT INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122

PROJECT #: 19.0003852

ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

Responsibility Schedule

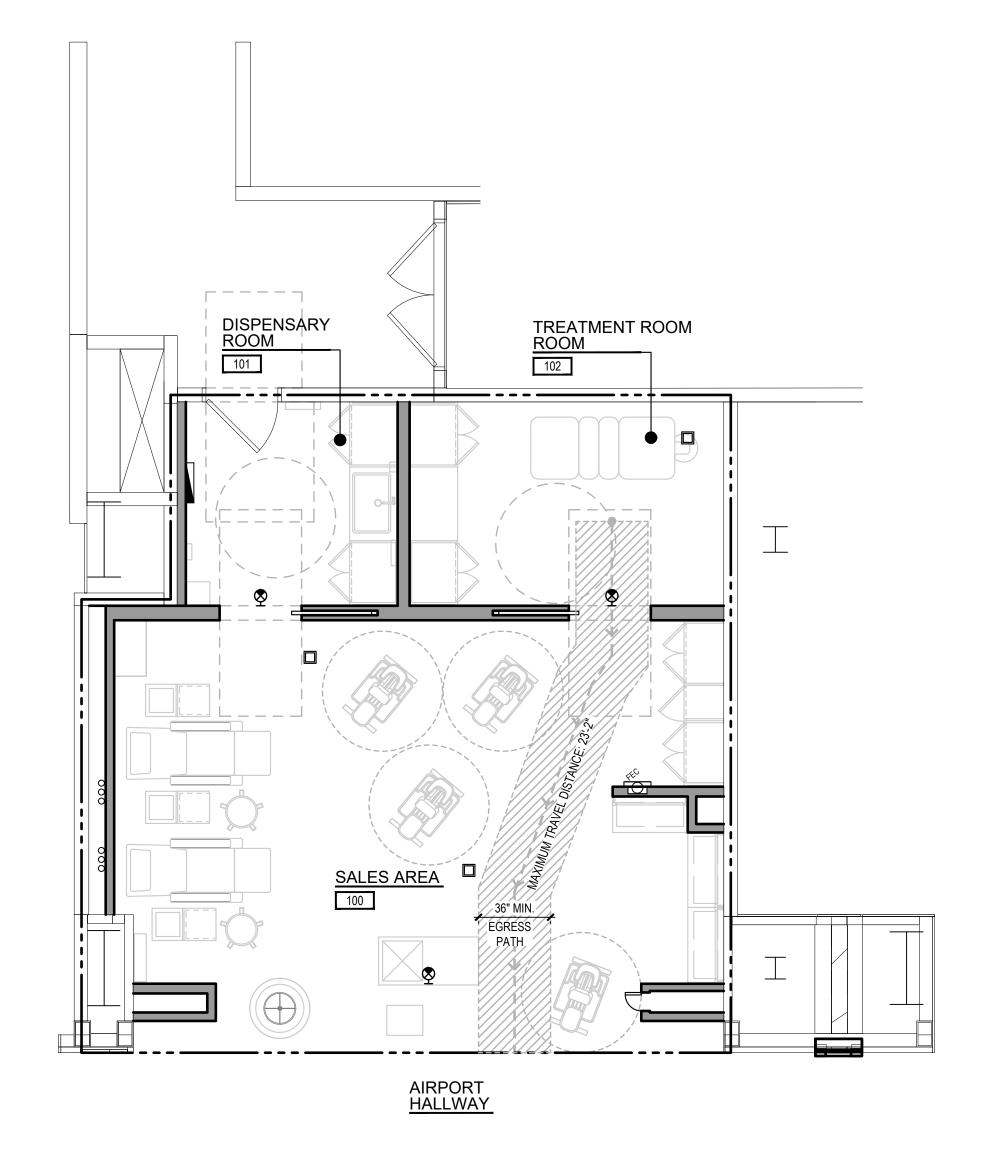
DRAWN BY: C. Ackell

SCALE:

AUTHORIZED FOR: 100% Submittal

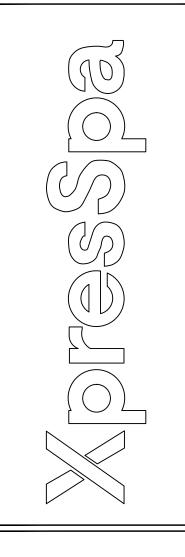
**G-002** 

LI	IFE SAFETY PLA	N LEGEND
	CODE	LOCATION
	0	FIRE EXTINGUISHER. REFER TO CONSTRUCTION PLAN. REQUIREMENT 1 PER 3,000 SF. SURFACE MOUNTED. LOCATED WITHIN 75 FT OF ENTRANCE OR AS SPECIFIED BY LOCAL FIRE MARSHALL.
	⊬⊗	EXIT SIGN LOCATED AT SALES AREA
	TOT KEC	FIRE EXTINGUISHER CABINET & EXTINGUISHER: MULTIPURPOSE DRY CHEMICAL TYPE UL-RATED 4-A: 60-B:C 10LB NOMINAL CAPACITY FOR CLASS A, CLASS B AND CLASS C FIRES. REQUIREMENT 1 PER 709.785 SF. LOCATED WITHIN 75 FT. OF ENTRANCE OR AS SPECIFIED BY FIRE INSPECTOR ON SITE.
		EMERGENCY LIGHT



FRCH NELSON BRAND

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ISSUE INFORMATION
01.31.2020

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1 AIRPORT & OWNER COMMENTS 05.17.19

NELCO ARCHITECTURE, INC.



PROJECT INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122 PROJECT #: 19.0003852

ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

Life Safety

C. Ackell

REVIEWED BY:
R. Rink

SCALE: 1/4" = 1'-0" AUTHORIZED FOR: 100% Submittal

NORTH

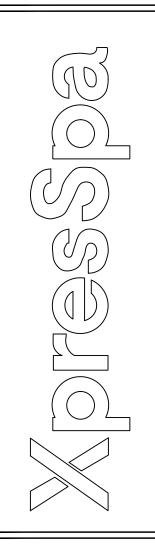
G-003

FROM A CORP SNACE OF CONTROL OF THE CONTROL OF THE

PROJECT SITE SLC AIRPORT

FRCH NELSON A NELSON BRAND

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ISSUE INFORMATION

01.31.2020 REVISIONS

NELCO ARCHITECTURE, INC.



PROJECT INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122

PROJECT #: 19.0003852

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SHEET INFORMATION

Site Plan

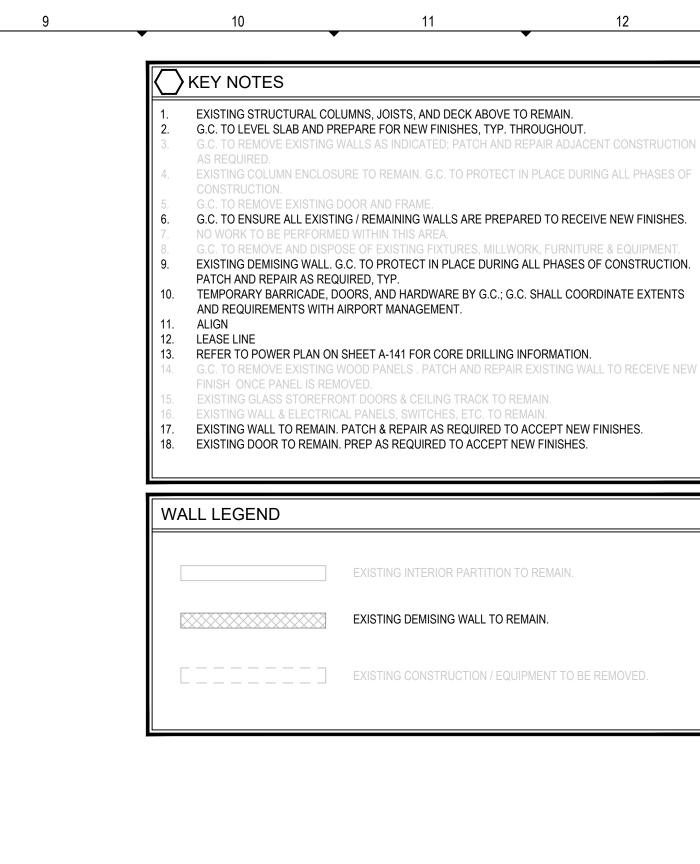
DRAWN BY: C. Ackell REVIEWED BY: R. Rink

NORTH

SCALE: N.T.S. AUTHORIZED FOR: 100% Submittal

G-004

A1 Site Plan
G-004 SCALE: N.T.S.



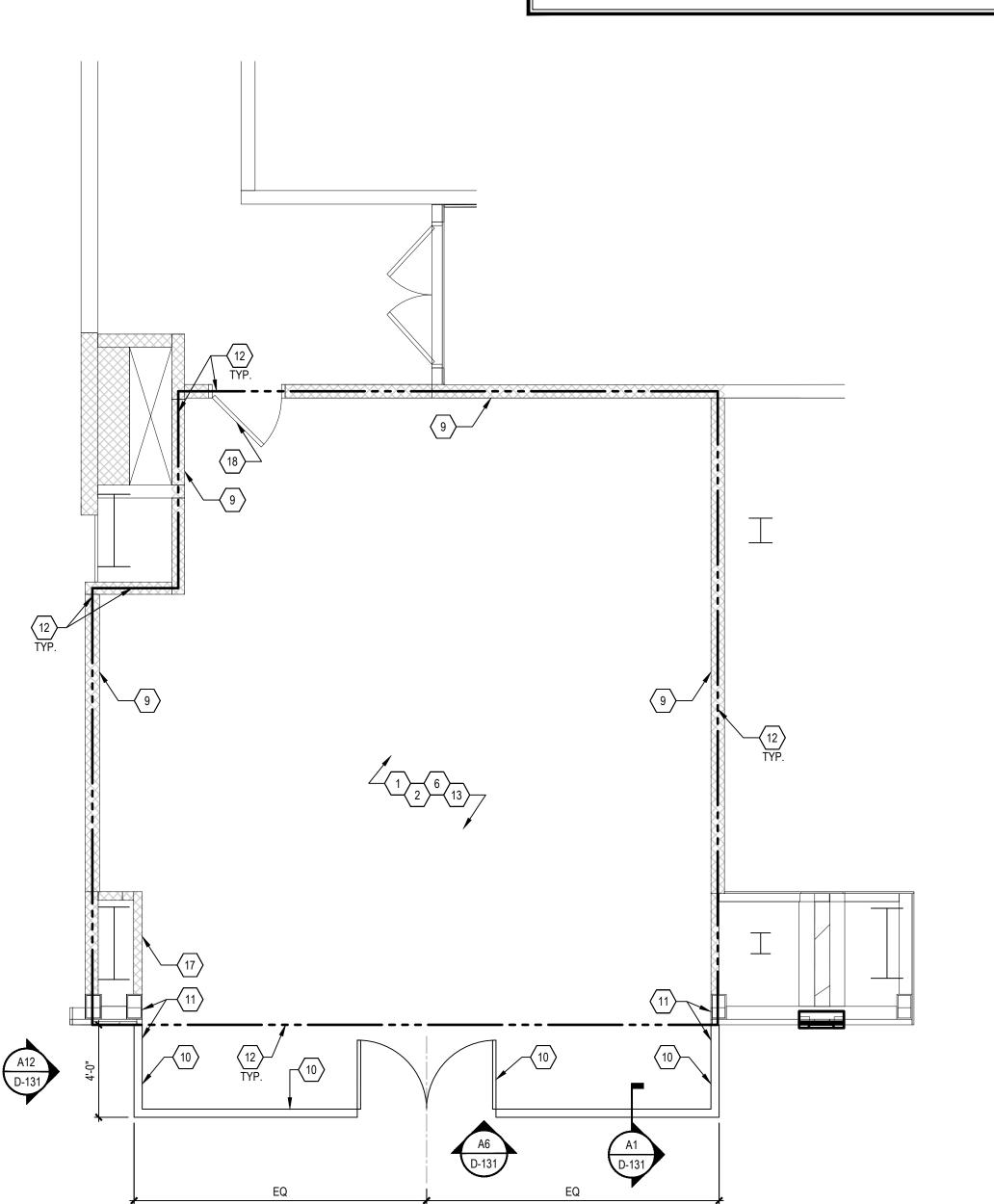
EXISTING DEMISING WALL TO REMAIN.

### **GENERAL NOTES**

- IT IS THE INTENT OF THESE DRAWINGS THAT THE ENTIRE SPACE IS TO BE CLEARED OF ALL PARTITIONS, FIXTURES, FINISHES, STOREFRONT AND SIGNAGE (U.O.N.) THE REMAINING SPACE SHOULD CONSIST OF EXISTING PERIMETER WALLS, STRIPPED COLUMNS, CONCRETE FLOOR, AND EXPOSED UNDERSIDE OF STRUCTURE U.N.O. COORDINATE WITH M.E.P. DRAWINGS IF EXISTING EQUIPMENT IS TO REMAIN.
- GENERAL CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND NOTIFY THE ARCHITECT OF ALL DISCREPANCIES BEFORE PROCEEDING WITH WORK. PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURE(S). PROVIDE AND PLACE
- BRACING OR SHORING AND BE RESPONSIBLE FOR SAFETY AND SUPPORT OF STRUCTURE. ASSUME LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE OR INJURY. HVAC SUBCONTRACTOR TO INSPECT EXISTING CONDITIONS AND DETERMINE WHETHER ANY
- COMPRESSOR REFRIGERANT LINES ARE PRESENT THAT MUST BE PROPERLY DRAINED (TO E.P.A. STANDARDS) PRIOR TO DEMOLITION. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.

NO WORK IS TO BE PERFORMED OUTSIDE THE LEASE LINE AS DEFINED BY THE AIRPORT U.N.O.

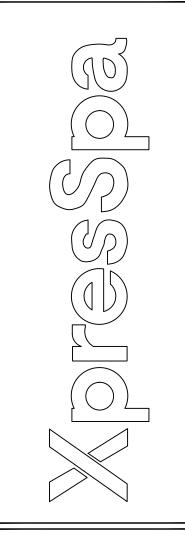
- REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO THE OWNER. TENANT TO COORDINATE BARRICADE AND BARRICADE GRAPHICS WITH OPERATIONS MANAGER. TENANT'S G.C. TO COORDINATE BARRICADE LOCATION WITH AIRPORT OPERATIONS MANAGER. PLACE MARKERS TO INDICATE LOCATIONS OF DISCONNECTED SERVICES. IDENTIFY SERVICE LINES AND CAPPING LOCATIONS ON PROJECT RECORD DOCUMENTS.
- CEASE OPERATIONS AND NOTIFY THE OWNER IMMEDIATELY IF SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. TAKE ALL NECESSARY PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE. DO NOT RESUME OPERATIONS UNTIL SAFETY IS RESTORED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXTENT OF DEMOLITION WITH THE OWNER AND THE LANDLORD AND BRING ANY DISCREPANCIES TO BOTH PARTIES ATTENTION PRIOR TO FINALIZING THE BID AND COMMENCEMENT OF WORK.
- A FIRE EXTINGUISHER MUST BE KEPT ON THE PREMISES AT ALL TIMES. EXCEPT WHERE NOTED OTHERWISE, MAINTAIN POSSESSION OF MATERIALS BEING DEMOLISHED. IMMEDIATELY REMOVE FROM SITE
- PROVIDE TEMPORARY SERVICES AS NECESSARY FOR CONTINUOUS OPERATION FOR ALL LIFE/SAFETY DEVICES.
- WHERE THE EXISTING CONCRETE SLAB IS TO BE PATCHED AND REPAIRED, THE GENERAL CONTRACTOR SHALL MAINTAIN THE EXISTING FIRE RATING OF THE EXISTING SLAB, PATCH WORK TO BE STRUCTURALLY SOUND AND CAPABLE OF SUPPORTING LIVE LOADS FOR MERCANTILE
- OCCUPANCIES AS PER LOCAL CODES AND JURISDICTION. GENERAL CONTRACTOR TO COORDINATE ALL WORK BELOW SLAB WITH AIRPORT AND SHALL
- PATCH & REPAIR ANY/ALL DAMAGE THAT MAY OCCUR DURING DEMOLITION WORK. ARRANGE & PAY FOR DISCONNECTING, REMOVING & CAPPING UTILITY SERVICES WITHIN AREAS OF DEMOLITION, DISCONNECT & STUB-OFF. NOTIFY AFFECTED UTILITY COMPANY & BUILDING MANAGER IN ADVANCE & OBTAIN APPROVAL BEFORE STARTING THIS WORK.
- DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE NEW WORK. INCLUDING THAT REQUIRED FOR CONNECTION TO THE EXISTING BUILDING. PROTECT EXISTING FOUNDATIONS AND SUPPORTING STRUCTURAL MEMBERS. PHASE DEMOLITION IN ACCORDANCE WITH CONSTRUCTION SCHEDULE.
- G.C. TO COORDINATE ALL WORK BELOW SLAB W/ LL & SHALL PATCH & REPAIR ANY/ALL DAMAGE THAT MAY OCCUR DURING DEMO WORK



25'-3¾"



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**ISSUE** INFORMATION

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NELCO ARCHITECTURE, INC.



**PROJECT** INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122 PROJECT #:

ACTUAL SHEET SIZE IS 24"x36"

**SHEET** INFORMATION

Barricade & **Demolition Plan** 

**D-111** 

**AUTHORIZED FOR:** 100% Submittal

Barricade & Demolition Plan D-111 SCALE: 1/4" = 1'-0"

>KEY NOTES **GENERAL NOTES** TEMPORARY BARRICADE SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS AND INSTALLED TO AIRPORT QUALITY AND BUILDINGS STANDARDS. G.C. TO COORDINATE WITH AIRPORT MANAGEMENT FOR REQUIREMENTS. BARRICADE TO BE INSTALLED PRIOR TO ANY WORK WITHIN THE LEASED PREMISES. GRAPHICS SUPPLIED & INSTALLED BY OWNER VENDOR. ANY DAMAGE CAUSED TO THE AIRPORT CEILING, FLOORING, OR NEUTRAL PIERS DURING CONSTRUCTION MUST BE REPAIRED AT G.C.'S EXPENSE. G.C. TO REMOVE THE BARRICADE UPON COMPLETION OF CONSTRUCTION WITH AIRPORT APPROVAL ONLY. TO BE ENDANGERED. TAKE ALL NECESSARY PRECAUTIONS TO PROPERLY SUPPORT THE GENERAL CONTRACTOR TO COORDINATE ALL WORK BELOW SLAB WITH LANDLORD AND SHALL MANAGER IN ADVANCE & OBTAIN APPROVAL BEFORE STARTING THIS WORK.

IT IS THE INTENT OF THESE DRAWINGS THAT THE ENTIRE SPACE IS TO BE CLEARED OF ALL PARTITIONS, FIXTURES, FINISHES, STOREFRONT AND SIGNAGE (U.O.N.) THE REMAINING SPACE SHOULD CONSIST OF EXISTING PERIMETER WALLS, STRIPPED COLUMNS, CONCRETE FLOOR, AND EXPOSED UNDERSIDE OF STRUCTURE (U.N.O.). COORDINATE WITH M.E.P. DRAWINGS IF EXISTING EQUIPMENT IS TO REMAIN.

GENERAL CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND NOTIFY THE ARCHITECT OF ALL DISCREPANCIES BEFORE PROCEEDING WITH WORK.

PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURE(S). PROVIDE AND PLACE BRACING OR SHORING AND BE RESPONSIBLE FOR SAFETY AND SUPPORT OF STRUCTURE. ASSUME LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE OR INJURY. HVAC SUBCONTRACTOR TO INSPECT EXISTING CONDITIONS AND DETERMINE WHETHER ANY COMPRESSOR REFRIGERANT LINES ARE PRESENT THAT MUST BE PROPERLY DRAINED (TO E.P.A.

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NO WORK IS TO BE PERFORMED OUTSIDE THE LEASE LINE AS DEFINED BY THE LANDLORD. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO THE OWNER. TENANT TO COORDINATE BARRICADE AND BARRICADE GRAPHICS WITH OPERATIONS MANAGER. TENANT'S G.C. TO COORDINATE BARRICADE LOCATION WITH MALL OPERATION MANAGER.

PLACE MARKERS TO INDICATE LOCATIONS OF DISCONNECTED SERVICES. IDENTIFY SERVICE LINES AND CAPPING LOCATIONS ON PROJECT RECORD DOCUMENTS. CEASE OPERATIONS AND NOTIFY THE OWNER IMMEDIATELY IF SAFETY OF STRUCTURE APPEARS

STRUCTURE. DO NOT RESUME OPERATIONS UNTIL SAFETY IS RESTORED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXTENT OF DEMOLITION WITH THE OWNER AND THE LANDLORD AND BRING ANY DISCREPANCIES TO BOTH PARTIES ATTENTION PRIOR TO FINALIZING THE BID AND COMMENCEMENT OF WORK.

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PROVIDE TEMPORARY SERVICES AS NECESSARY FOR CONTINUOUS OPERATION FOR ALL LIFE/SAFETY DEVICES.

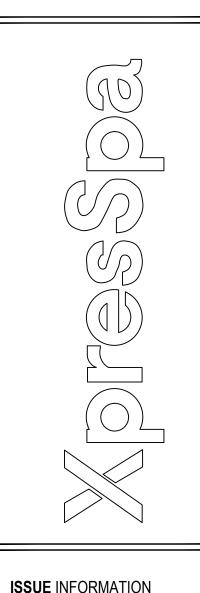
WHERE THE EXISTING CONCRETE SLAB IS TO BE PATCHED AND REPAIRED, THE GENERAL CONTRACTOR SHALL MAINTAIN THE EXISTING FIRE RATING OF THE EXISTING SLAB, PATCH WORK TO BE STRUCTURALLY SOUND AND CAPABLE OF SUPPORTING LIVE LOADS FOR MERCANTILE OCCUPANCIES AS PER LOCAL CODES AND JURISDICTION.

PATCH & REPAIR ANY/ALL DAMAGE THAT MAY OCCUR DURING DEMOLITION WORK. ARRANGE & PAY FOR DISCONNECTING, REMOVING & CAPPING UTILITY SERVICES WITHIN AREAS OF DEMOLITION, DISCONNECT & STUB-OFF. NOTIFY AFFECTED UTILITY COMPANY & BUILDING

DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE NEW WORK. INCLUDING THAT REQUIRED FOR CONNECTION TO THE EXISTING BUILDING. PROTECT EXISTING FOUNDATIONS AND SUPPORTING STRUCTURAL MEMBERS. PHASE DEMOLITION IN ACCORDANCE WITH CONSTRUCTION SCHEDULE.

G.C. TO COORDINATE ALL WORK BELOW SLAB W/ LL & SHALL PATCH & REPAIR ANY/ALL DAMAGE THAT MAY OCCUR DURING DEMO WORK

311 Elm Street Suite 600 Cincinnati, OH 45202 513 241 **3000** 



01.31.2020 REVISIONS

NELCO ARCHITECTURE, INC.



**PROJECT** INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122 PROJECT #: 19.0003852

ACTUAL SHEET SIZE IS 24"x36"

**SHEET** INFORMATION

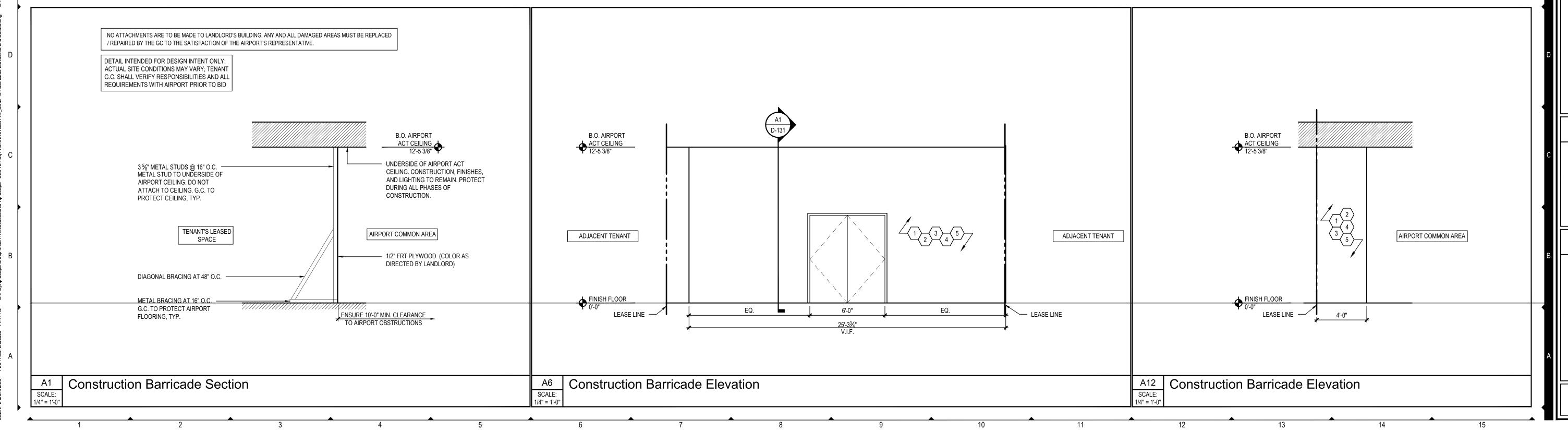
**Barricade Elevations** & Details

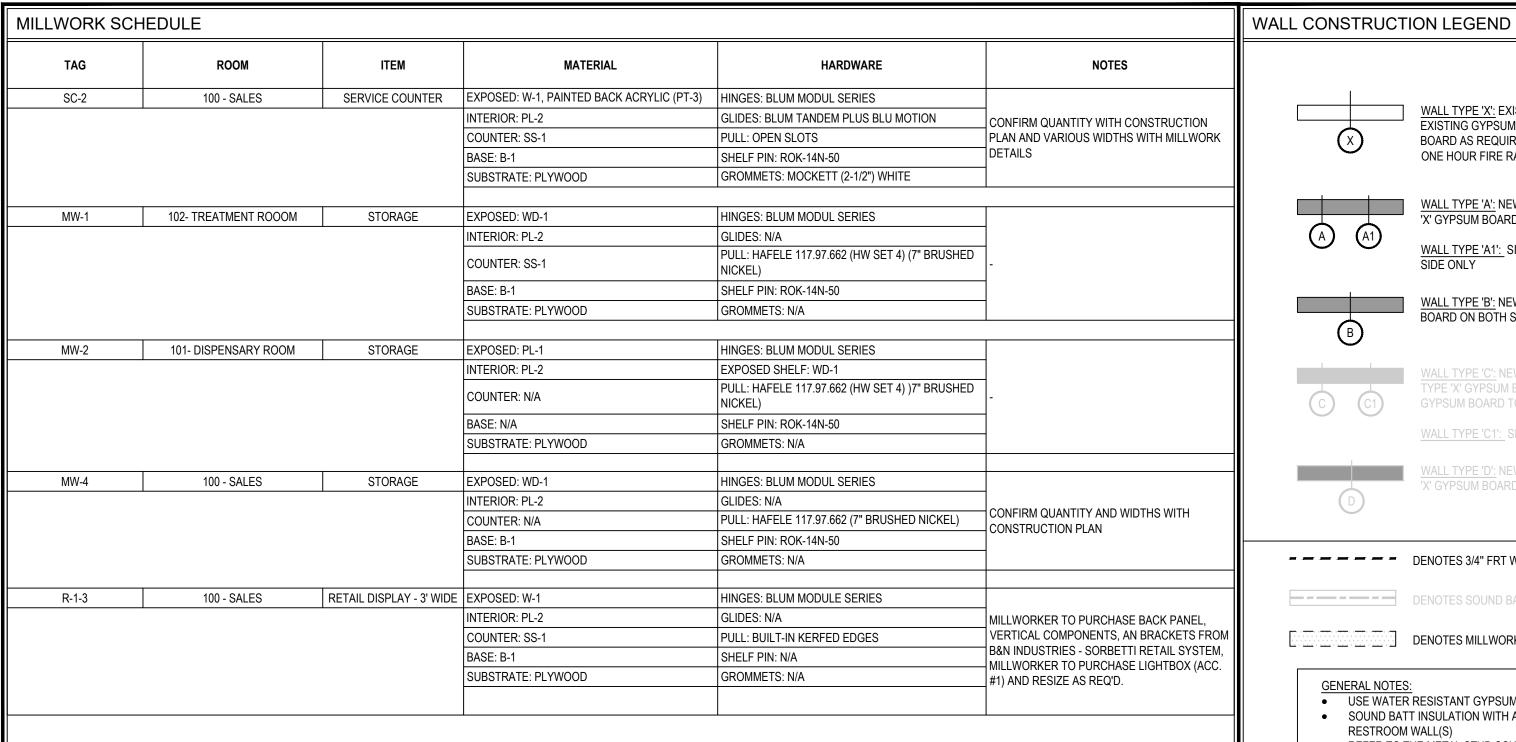
DRAWN BY: C. Ackell **REVIEWED BY:** R. Rink

As Noted

**AUTHORIZED FOR:** 100% Submittal

**D-131** 





WALL TYPE 'X': EXISTING DEMISING/CORRIDOR/EXTERIOR WALL TO REMAIN. PATCH, REPAIR & REPLACE EXISTING GYPSUM BOARD AS REQUIRED TO APPLY NEW FINISHES. REMOVE & REPLACE EXISTING GYPSUM BOARD AS REQUIRED TO INSTALL BLOCKING, PLUMBING AND/OR ELECTRICAL SERVICE. MAINTAIN EXISTING ONE HOUR FIRE RATED ASSEMBLY (PER UL #U419.), FIRE TAPE, CAULK, SEAL, ETC. AS REQUIRED WALL TYPE 'A': NEW INTERIOR FULL HEIGHT WALL - 3 5/8" METAL STUDS @ 16" O.C. w/ (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTH SIDES. GYPSUM BOARD TO EXTEND TO 6" ABOVE CEILING. WALL TYPE 'A1': SIMILAR TO WALL TYPE 'A' BUT WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON OPEN WALL TYPE 'B': NEW INTERIOR FULL HEIGHT WALL - 6" METAL STUDS @ 16" O.C. w/ 5/8" TYPE 'X' GYPSUM BOARD ON BOTH SIDES. GYPSUM BOARD TO EXTEND TO 6" ABOVE CEILING. NALL TYPE 'C': NEW INTERIOR FULL HEIGHT WALL - 3 5/8" METAL STUDS @ 16" O.C. w/ (1) LAYER 5/8" WALL TYPE 'C1': SIMILAR TO WALL TYPE 'A' BUT WITH WALL TILE ON BOTH SIDES OF THE WALL. WALL TYPE 'D': NEW INTERIOR FULL HEIGHT WALL - 6" METAL STUDS @ 16" O.C. w/ (1) LAYER 5/8" TYPE

---- DENOTES 3/4" FRT WOOD BLOCKING INSTALLED FLOOR TO CEILING AS INDICATED ON BLOCKING PLAN. DENOTES SOUND BATT INSULATION OF 42 STC OR BETTER IN WALL CAVITY

DENOTES MILLWORK REFER TO THE A7 SERIES DRAWINGS.

 USE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS. SOUND BATT INSULATION WITH AN STC OF 42 OR BETTER TO BE INSTALLED IN ALL DEMISING WALLS AND THE SALES /

REFER TO THE METAL STUD SCHEDULE ON DRAWING SHEET A-501 FOR GAUGE SIZES UNLESS NOTED OTHERWISE.

REFER TO H1 / A-501 FOR WALL TYPE CONSTRUCTION DETAILS.

# **GENERAL NOTES**

THE G.C. SHALL VERIFY DIMENSIONS OF THE EXISTING SPACE & 8. OF ANY EXISTING CONSTRUCTION TO REMAIN BY ACTUAL MEASUREMENT BEFORE ANY WORK IS PERFORMED. IF MEASUREMENTS DIFFER FROM DIMENSIONS INDICATED ON THESE PLANS, THE G.C. IS TO NOTIFY THE TENANT IMMEDIATELY. THE

G.C. IS RESPONSIBLE FOR CORRECTING ANY & ALL DISCREPANCIES AT NO ADDITIONAL EXPENSE TO TENANT THE G.C. SHALL PATCH & REPAIR ALL EXISTING SURFACES AS NECESSARY BEFORE APPLYING NEW FINISHES. ALL SOFT, POROUS, FLAKING OR OTHERWISE DEFECTIVE FINISHES SHALL BE REMOVED BEFORE APPLICATION OF NEW MATERIALS. OPENINGS, 10.

VOIDS, OR UNFINISHED SURFACES CREATED BY REMOVAL OR MODIFICATION OF EXISTING WORK SHALL BE FILLED OR PATCH & FINISHED AS NECESSARY TO MATCH EXISTING CONDITIONS FOR 11. NEW FINISHES REQ. SPECIFICALLY, FLOOR SURFACES AT ENTRY SHALL BE LEVELED TO ASSURE SMOOTH SURFACE TRANSITION 12. BETWEEN EXISTING & NEW FLOOR FINISH MATERIALS. VERIFY ANY PATCHING OF EXISTING CONCRETE SLAB IN HOUSE WITH PROJECT MANAGER PRIOR TO DOING WORK. G.C. SHALL VERIFY THAT DEMISING WALLS EXTEND TO STRUCTURE ABOVE AND ALL PENETRATIONS ARE SEALED TIGHT,

AS REQUIRED BY AIRPORT AND SHALL PROVIDE ALL WORK REQUIRED TO CORRECT DEFICIENT CONDITIONS THE G.C. IS RESPONSIBLE TO MAINTAIN THE ARCHITECTURAL, STRUCTURAL AND FIRE RATING INTEGRITY OF THE AIRPORT

ALL METAL STUDS ARE TO BE 20 GA. TYPICAL NON-LOAD BEARING PARTITIONS. SEE USG STEEL-FRAMED DRYWALL SYSTEMS "LIMITING HEIGHT - STEEL STUD ASSEMBLIES" CHART. USE THE L/240 ALLOWABLE DEFLECTION FIGURES ONLY ALL GYPSUM BOARD TO BE 5/8" TYPE 'X' UNLESS NOTED

THE G.C. SHALL COORDINATE WORK OF VARIOUS TRADES IN INSTALLATION OF INTERRELATED WORK. BEFORE INSTALLATION OR WORK BY ANY TRADE BEGINS, MAKE PROPER PROVISIONS TO AVOID INTERFERENCES. THIS SHALL INCLUDE WORK BY ANY OF

THE TENANTS SUBCONTRACTORS AS WELL AS THOSE UNDER CONTRACT W/ THE G.C. PROVIDE METAL OR F.R.T. WOOD BLOCKING FOR ALL SIGNS, HOOKS, TOILET ROOM ACCESSORIES & ANY OTHER WALL MOUNTED EQUIPMENT. COORDINATE ALL BLOCKING REQUIREMENTS NECESSARY FOR MILLWORK W/ MILLWORKER. ALL FRAMING LUMBER, PLYWOOD AND CONCEALED WOOD SHALL

311 Elm Street Suite 600

Cincinnati, OH 45202

513 241 **3000** 

**ISSUE** INFORMATION

NELCO ARCHITECTURE, INC

**PROJECT INFORMATION** 

ACTUAL SHEET SIZE IS 24"x36"

**SHEET** INFORMATION

Construction & **Blocking Plan** 

3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122

**XpresSpa** SLC AIRPORT

PROJECT #: 19.0003852

**REVIEWED BY** 

BE FIRE RETARDANT TREATED (F.R.T.) - NO WOOD IN CEILING PLENUM ABOVE SPRINKLER COVERAGE DIMENSIONS ARE FROM FACE OF GYPSUM WALL BOARD OR CENTERLINE OF COLUMN. ALL INTERIOR FINISH & TRIM MATERIALS SHALL MEET APPLICABLE

CODES FOR FLAME SPREAD RATINGS

MINIMUM DIMENSION FROM ANY CORNER OR WALL TO FRAMING STUD AT DOOR JAMB OPENING SHALL BE 4" (U.N.O.) THE G.C. SHALL PROVIDE CAULK JOINTS WHERE GYP. BD. MEETS THE FLOOR OR ROOF DECK - PACK FLUTES AT DECK AS REQUIRED PROVIDE DRYWALL TRIM AT ALL EXPOSED EDGES AND CORNERS TENANT'S CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL WITHIN THE AIRPORT'S CRITERIA MANUAL INCLUDING ITS RULES AND REGULATIONS.

'S DEMISING WALLS, FLOOR SLAB, BEAMS, COLUMNS, ROOF DECK, 17. ALL SUPPORTS TO BE FROM STRUCTURAL JOISTS AND BEAMS AND NOT FROM THE CEILING DECK.

# >KEY NOTES

OTHERWISE.

MILLWORK PROVIDED BY MILLWORKER. REFER TO DETAILS ON SHEET A-301 TO A-305 FOR MORE INFORMATION. ELECTRICAL PANEL, MAINTAIN 36" CLEAR IN FRONT OF ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS.

GRIND, POLISH, PATCH, SAWCUT STRAIGHT AND CLEAN EXISTING AIRPORT FLOOR AS NEEDED AFTER BARRICADE IS REMOVED. PROVIDE 24" X 36" PLYWOOD, PAINTED PT-1, TO BE MOUNTED ON WALL FOR I.T. RACK. SEE ELEVATION ON A-201 FOR MOUNTING HEIGHT. INSTALL OWNER-FURNISHED FRAMED LICENSES ON WALL. COORDINATE WITH SPA MANAGER.

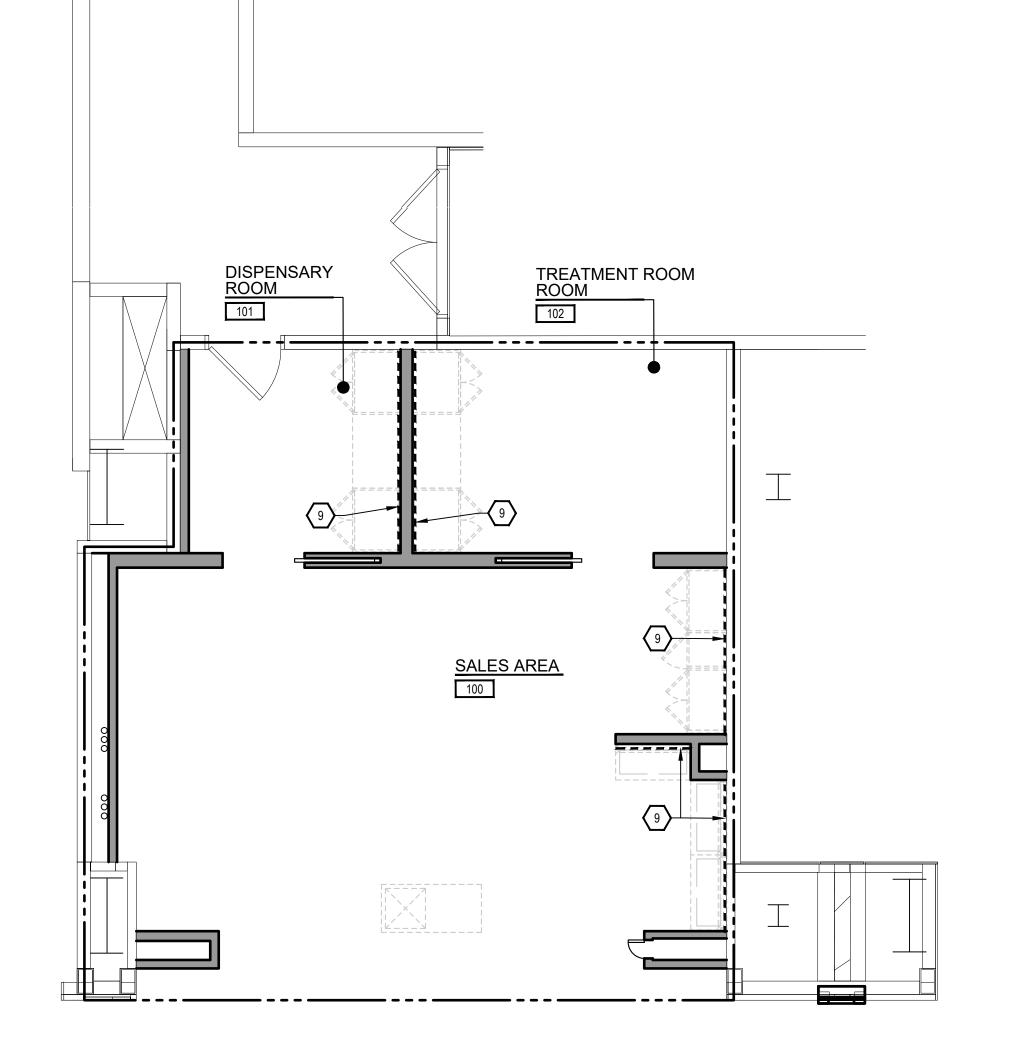
EXISTING DOOR TO REMAIN.

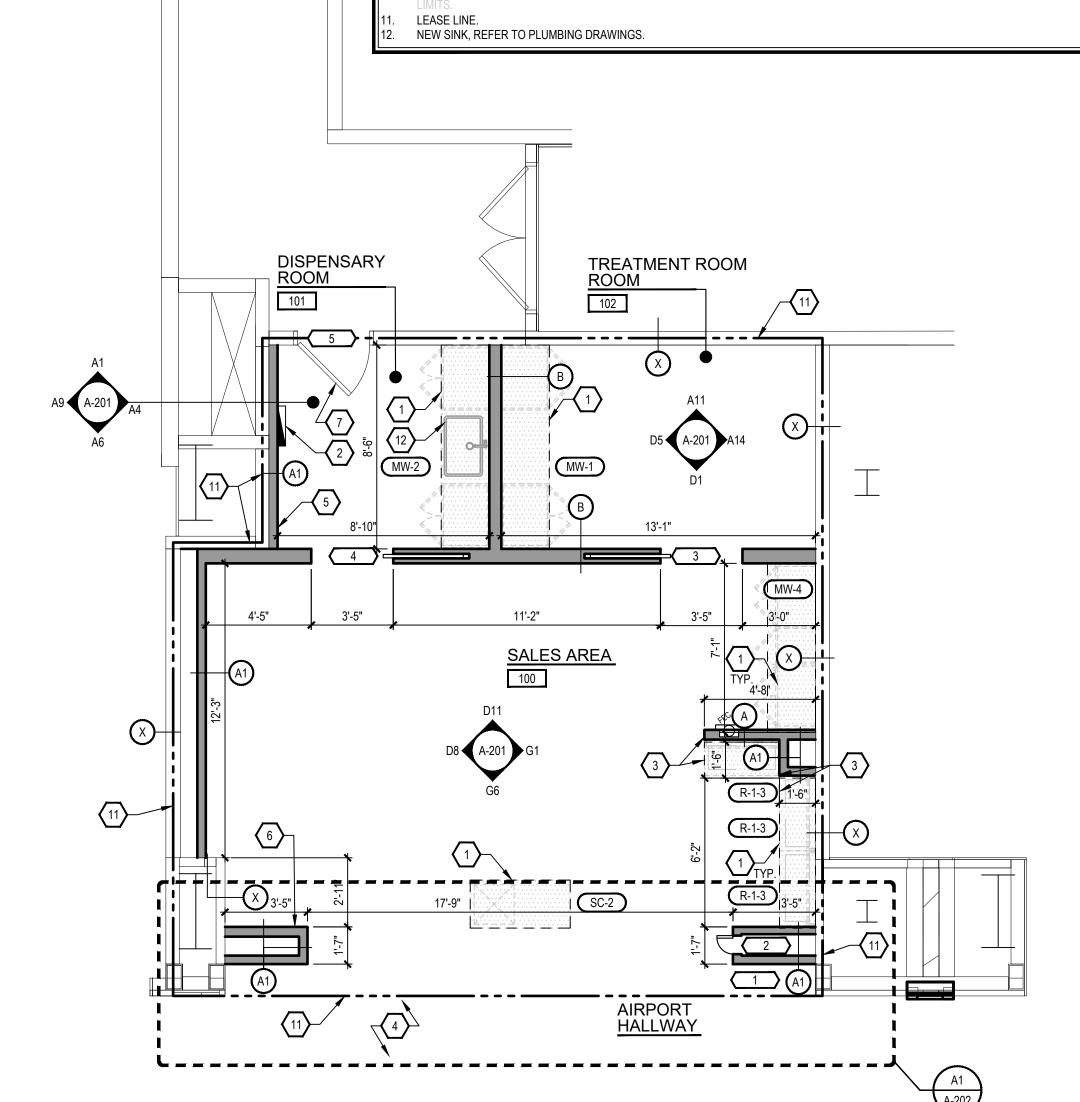
3/4" FRT PLYWOOD BLOCKING, FULL HEIGHT. NEW WALLS: PLYWOOD BLOCKING INSERT INTO NEW FLOORING.

EXISTING WALLS: LAMINATE PLYWOOD BLOCKING PER EXISTING GYP. w/ 5/8" TYPE 'X' GYP. OF PLYWOOD.



ALL GRAB BARS AND SEATS MUST BE BLOCKED / RE-ENFORCED WITH SOLID WOOD BLOCKING TO WITHSTAND ACCESSIBILITY REQUIRED LOAD





A8 Construction Plan A-111 SCALE: 1/4" = 1'-0"



**AUTHORIZED FOR:** 100% Submittal **A-111** 

Blocking Plan

A-111 SCALE: 1/4" = 1'-0"

CRIPTION  NG TILE  LAY IN CEILING TILE AND GRID  PAINTED GRID  TAL WALL BASE  TAL MILLWORK BASE AS NOTED	MANUFACTURER	PRODUCT / MODEL / SPECIES / GRADE					
LAY IN CEILING TILE AND GRID PAINTED GRID  TAL WALL BASE		I NOBOOT / MODEL / OF LOILO / GRADE	COLOR	FINISH	SIZE / THICKNESS	FLAME SPREAD	NOTES
PAINTED GRID  TAL WALL BASE				I			1
AL WALL BASE	TILE AND GRID ARMSTRONG	GRID: DONN DX/DXL ACOUSTICAL SUSPENDED SYSTEM #AC3167 TILE: MARS CLIMAPLUS #86185 MOLDING: SQUARE EDGE #M7	FLAT WHITE 050	-	SEE NOTES	CLASS A	GRID: 15/16" X 12' X 1.64" - MAINTEE SYSTEM TILE: 24" X 48" X 3/4" MOLDING: 1/8" X 12"
	ARMSTRONG	GRID: PRELUDE XL 15/16" XL732036 - 2' CROSS TEE MOLDING: 780036 - 12' HEMMED ANGLE MOLDING	TECH BLACK	-	SEE NOTES	CLASS A	GRID: 24" X 15/16" X 1-11/16"  MOLDING: 144" X 7/8" X 7/8"  GC TO FIELD PAINT CLIPS, CABLES & HANGERS TO MATCH.  OPEN STRUCTURE ABOVE TO BE PAINTED PT-4
	<u> </u>						
AL MILLWORK BASE AS NOTED	PERFORMANCE SPEC	22 GAUGE STEEL STOCK SHEET BENT OVER PT BOARD SUBSTRATE	STAINLESS STEEL	BRUSHED	6" x 3/4"	N/A	BEND TOP AND OUTSIDE FACE. MITER INSIDE/OUTSIDE CORNERS. BRUMARKS PARALLEL TO FLOOR, BASE TO BE BY G.C.
	BASE AS NOTED PERFORMANCE SPEC	22 GAUGE STEEL STOCK SHEET BENT OVER PT BOARD SUBSTRATE	STAINLESS STEEL	BRUSHED	4" x 3/4"	N/A	BEND TOP AND OUTSIDE FACE. MITER INSIDE/OUTSIDE CORNERS. BRUMARKS PARALLEL TO FLOOR, BASE TO BE BY G.C.
	'			1			
RCELAIN TILE	NASCO	VAPORE LEGNO CARBONE NATURALE	FLRGB097	MATTE	8" x 48" x 3/8"		GOUT: 1/8" MAX / LATICRETE / #45 SPECTRALOCK PRO PREMIUM THINSET MORTAR: BOSTIK / POLYMER-MODIFIED THINSET MORTAT 917 GRAY
ILIENT FLOORING	ecore commerical	ECOnights	652 MR. SLATE	-	3/8" THICK ROLL		GYM FLOORING
RCELAIN TILE	ARCHITECTURAL SYSTEMS INC	AEGEAN ECO-PORCELAIN MATTE	FLSRI633	MATTE	12" x 24" x 3/8"		SHOWER AND RESTROOM AREA FLOOR AND WALL TILE: EPOXY GROU'GROUT JOINTS: 1/8" GROUT: LATICRETE, COLOR TO MATCH TILE
RCELAIN TILE	ARCHITECTURAL SYSTEMS INC	AEGEAN ECO-PORCELAIN MATTE	FLSRI826	MATTE	2" x 2" MOSAIC 12" x 12" x 3/8"		SHOWER FLOOR TILE: EPOXY GROUT GROUT JOINTS: 1/8" GROUT: LATICRETE, COLOR TO MATCH TILE
NSITION STRIP	SCHLUTER	SCHIENE EDGE	-	ANODIZED ALUMINUM		N/A	PROJECTING PROFILE. ANCHORED TO CONCRETE FLOOR. 1/8" MAX. VISI DIMENSION.
NSITION STRIP	SCHLUTER	RENO-V	-	ANODIZED ALUMINUM	VIF	N/A	PROJECTING PROFILE. ANCHORED TO CONCRETE FLOOR. <sup>1</sup> / <sub>8</sub> " MAX. VISI DIMENSION.
							1
NT - DOORS / FRAME	AME BENJAMIN MOORE	ADVANCE N794	DECORATORS WHITE #CC-20	SEMI GLOSS	-	N/A	
NT - CEILING	BENJAMIN MOORE	ADVANCE 791	SUPER WHITE	MATTE	_	N/A	
NT - MILLWORK	BENJAMIN MOORE	ADVANCE, CUSTOM COLOR	#OC-152 ORANGE	WATTE		N/A	PANTONE 1505C; C0 M71 Y100 K0; R255 G103 B0; #FF6700
		<u> </u>	PELICAN GREY	SEMI GLOSS	-		FANTONE 1303C, CO WITT 1 100 RO, R233 G 103 BU, #11 0700
NT - DISPENSARY ROOM  NT - TREATMENT ROOM		ADVANCE N794  ADVANCE N794	HIDDEN FALLS 714	SEMI GLOSS	-	N/A	
THE THE THE OW	DEIW WIII WOOTE	7.5 7.4.02 17.0	THE DELTT ALL OF THE	OLIM OLOGO		147.	
L TILE	ARCHITECTURAL SYSTEMS INC	ASI CERAMIC TILE	WHITE	GLOSS FLAT	4" X 16"		ACCENT WALL TILE: EPOXY GROUT GROUT JOINTS: 1/8" GROUT: LATICRETE, COLOR TO MATCH TILE
							1
ORATIVE CLADDING	DING ALTRO	WHITEROCK	210 - PLATINUM	-	3/32"	CLASS A	CONFIRM SHEET SIZES WITH MILLWORKER AND SHOP DRAWINGS BY MILLWORKER
ORATIVE CLADDING - MANICURE	DING - MANICURE ALTRO	WHITEROCK	210 - PLATINUM	_	3/32"	CLASS A	CONFIRM SHEET SIZES WITH MILLWORKER AND SHOP DRAWINGS
LWORK							
LL COVERING	TRI KES	LUMINOUS 2VLU-01 SILVER	SILVER		_	CLASS A	1.
	· ·			-	-		
LL COVERING	TRI   KES	GRASS ENVY; T2-GE-18 LUSH FOREST	LUSH FOREST	-	-	CLASS A	-
L COVERING	TRI KES	COBBLE HILL;SG2569 OPAL	OPAL	-		CLASS A	-
ERGLASS REINFORCED PLASTIC	ORCED PLASTIC MARLITE	FRP	S100G WHITE				
				T	T	Г	
LIED GRAPHICS		CUSTOM ESSIE NAIL POLISH GRAPHIC	-	-	N/A	N/A	PROVIDED BY SIGNAGE VENDOR
LIED GRAPHICS M GRAPHIC	SIGNAGE VENDOR SIGNAGE VENDOR	CUSTOM SFO SKYLINE GRAPHIC		-	N/A N/A	N/A N/A	PROVIDED BY SIGNAGE VENDOR  PROVIDED BY SIGNAGE VENDOR
MOSS GRAPHICS		-	-	-	N/A	N/A	PROVIDED BY SIGNAGE VENDOR
	GIOTATOL VERTICAL				14/71	14/73	THE VIDES BY GIGHNOL VEHICLE.
OD VENEER	BROOKSIDE VENEERS, LTD.	BROOKLINE VENEER - MACASSAR EBONY, PART#: 603/00/XV	DARK	-	QTR. CUT, 1/40"	CLASS B	CONFIRM SHEET SIZES WITH MILLWORKER AND SHOP DRAWINGS.
OD VENEER SLATS -	ATS - PERFORMANCE SPEC	3/4" PLYWOOD SUBSTRATE		     WD-1	3" x 3/4" WRAPPED	CLASS A	3/4" FIRE-TREATED PLYWOOD WRAPPED IN WOOD VENEER (WD-1).
PREFRONT	1 LIN ONWANDE SPEC	74 1 E11100D 00D011W1E		""	A 74 WIVAFFED	OLAGO A	PROVIDED BY MILLWORK CONTRACTOR.
ID SURFACE	LG HAUSY	HI-MACS	S006 - ARCTIC WHITE	-	20 MM THICKNESS	CLASS A	MILLWORK AS NOTED
	CAESARSTONE	POLISHED FINISH	2141 BLIZZARD	-	20 MM THICKNESS	CLASS A	HALLWAY MILLWORK
ID SURFACE	LG HAUSY	HI-MACS	SILVER GRAY	-	20 MM	CLASS A	HALLWAY MILLWORK
ID SURFACE	1				THICKNESS		<u> </u>
	WILSONART	HIGH PRESSURE LAMINATE	PLATINUM D315	60 MATTE	3/32" THICK	CLASS B	DISPENSARY MILLWORK
	PERFORMACE SPEC	-	WHITE MELAMINE	-	-	CLASS C	1-
ID SURFACE	l	•		1			-
	ATE	CAESARSTONE  LG HAUSY  ATE WILSONART  PERFORMACE SPEC	CAESARSTONE POLISHED FINISH  LG HAUSY HI-MACS  ATE WILSONART HIGH PRESSURE LAMINATE  JE PERFORMACE SPEC -	CAESARSTONE POLISHED FINISH 2141 BLIZZARD  LIG HAUSY HI-MACS SILVER GRAY  ATE WILSONART HIGH PRESSURE LAMINATE PLATINUM D315  RE PERFORMACE SPEC - WHITE MELAMINE	LG HAUSY HI-MACS WHITE -  CAESARSTONE POLISHED FINISH 2141 BLIZZARD -  LG HAUSY HI-MACS SILVER GRAY -  ATE WILSONART HIGH PRESSURE LAMINATE PLATINUM D315 60 MATTE  JE PERFORMACE SPEC - WHITE MELAMINE -	THICKNESS  CAESARSTONE  POLISHED FINISH  LIG HAUSY  HI-MACS  POLISHED FINISH  2141 BLIZZARD  - 20 MM THICKNESS  SILVER GRAY  - 20 MM THICKNESS  ATE  WILSONART  HIGH PRESSURE LAMINATE  PLATINUM D315  60 MATTE  3/32" THICK  WHITE MELAMINE	HI-MACS WHITE - THICKNESS CLASS A  CAESARSTONE POLISHED FINISH 2141 BLIZZARD - 20 MM THICKNESS CLASS A  E LG HAUSY HI-MACS SILVER GRAY - 20 MM THICKNESS CLASS A  CLASS B  THICKNESS CLASS A  CLASS C  THICKNESS CLASS A  CLASS A  THICKNESS CLASS A  CLASS A  THICKNESS CLASS A  THICKNESS CLASS A  CLASS A  THICKNESS CLASS A  CLASS A  THICKNESS CLASS A  THI

/4" THICK

FINISH SCHEDULE CEILING HEIGHT RM. # ROOM NAME FLOOR BASE CEILING WALLS REMARKS 10'-6" SEE INTERIOR ELEVATIONS SALES AREA FL-1 B-1 WC-1/V-6/V-1/W-1 PT-2 DISPENSARY ACT-1 9'-0" SEE INTERIOR ELEVATIONS PT- 4/ FRP-1 ROOM TREATMENT FL-1 B-1 WC - 2 / FRP-1 9'-0" SEE INTERIOR ELEVATIONS PT-2 ROOM

GENERAL NOTES

XX XX INDICATES TYPICAL FINISHES WITHIN ROOM U.N.O. EXISTING AIRPORT / ADJACENT FINISHES BEYOND LEASE LINE TO REMAIN UNDISTURBED, U.N.O. ANY DAMAGED FINISHES TO BE REPLACED, PATCHED, AND REPAIRED TO MATCH EXISTING BY GC.

ALL FLOOR COVERING MATERIALS TO BE INSTALLED PER MANUFACTURER'S STANDARD DETAILS AND SPECIFICATIONS. VERIFY W/ MANUFACTURER PRIOR TO INSTALLATION. GC TO FIELD VERIFY EXISTING EXPANSION JOINTS AND REPORT TO ARCHITECT. GC RESPONSIBLE FOR LEVELING, PREPARING, AND INSTALLATION OF NEW FLOOR. GC IS RESPONSIBLE FOR ALL CORE DRILLING AND CUTTING OF THE FLOOR AS REQUIRED.

COORDINATE WITH AIRPORT MANAGEMENT. ALL MATERIALS AND FINISHES MUST BE FIRE-RATED AND HAVE FLAME RESISTANCE

COMPLYING WITH LOCAL AND STATE CODES. ALL SURFACES AT TRANSITIONS BETWEEN DIFFERENT OR EXISTING / NEW MATERIALS TO BE SMOOTH AND FLUSH, INCLUDING TRANSITIONS BETWEEN DISSIMILAR FLOOR MATERIALS. ALL GYP. BD. WALLS WITH PAINT FINISH TO BE A LEVEL '5' FINISH, TYP.

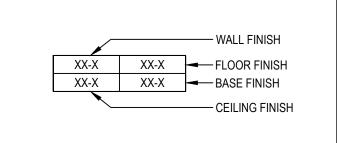
KEY NOTES

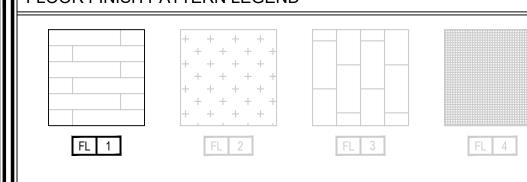
G.C. TO LEVEL SLAB AND PREPARE FOR NEW FLOOR FINISH, TYP. THROUGHOUT.

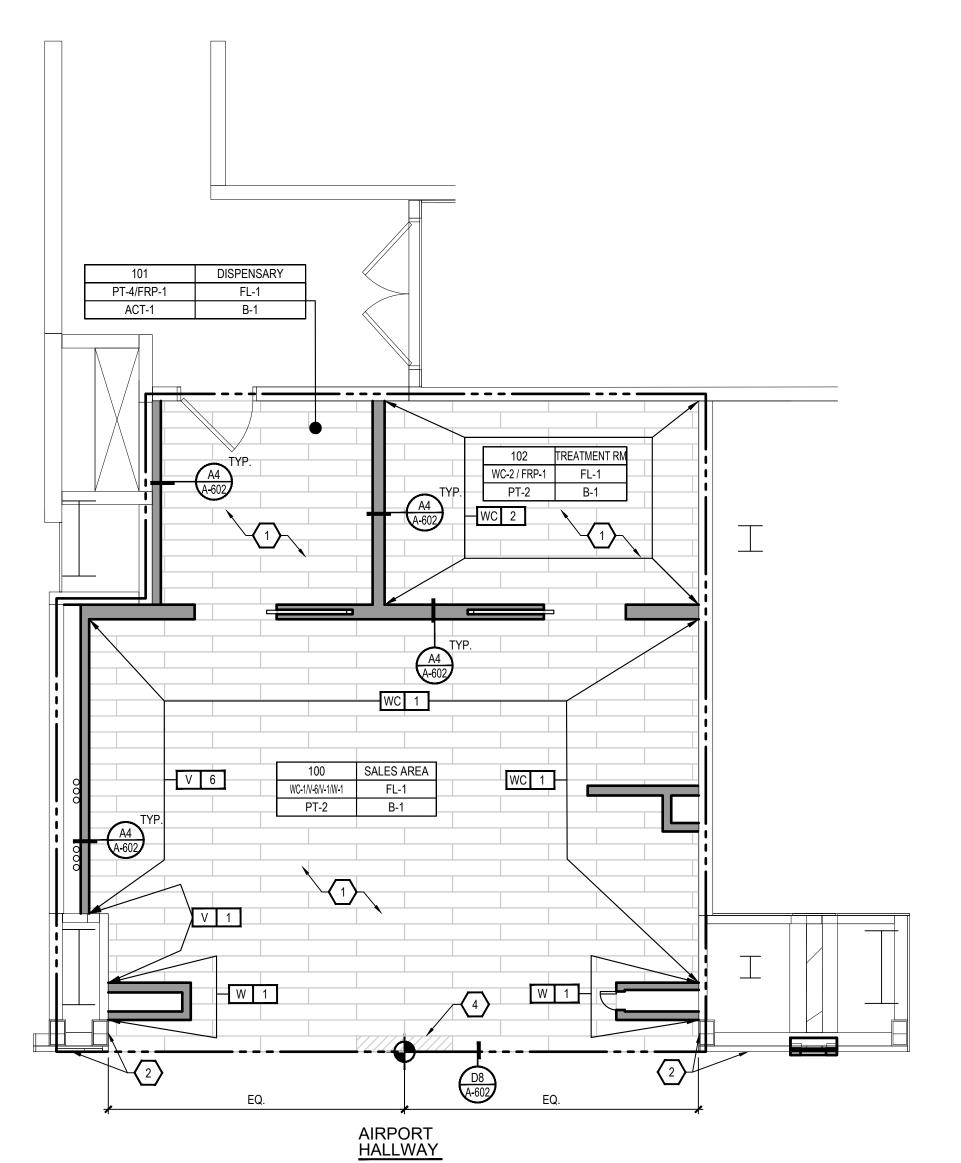
EXISTING AIRPORT FINISHES TO REMAIN, TYP. TILE FLOORING SHALL BE SLOPED TOWARDS FLOOR DRAINS. MAX SLOPE OF 1:20 IN ADA

4. FULL TILE STARTING POINT.

ROOM FINISH SYMBOL KEY FLOOR FINISH PATTERN LEGEND





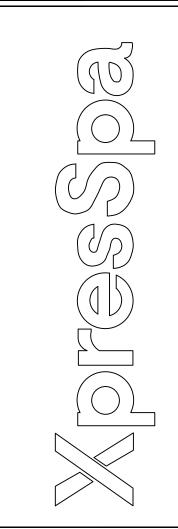


A9 Finish Floor Plan A-121 SCALE: 1/4" = 1'-0"

A NELSON BRAND 311 Elm Street Suite 600

Cincinnati, OH 45202

513 241 3**000** 



ISSUE INFORMATION	
01.31.2020 REVISIONS	
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NELCO ARCHITECTURE, INC.



**PROJECT** INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122 PROJECT #: 19.0003852

ACTUAL SHEET SIZE IS 24"x36" **SHEET** INFORMATION

Finish Plan, Finish Schedule, & Room Finish

Schedule

**REVIEWED BY:** R. Rink **AUTHORIZED FOR:** 100% Submittal

FIXTURE SCHEDULE							
SYMBOL	<u>TAG</u>	QTY	DESCRIPTION	MANUFACTURER	PRODUCT / MODEL	FINISH	NOTES
	FN-1	2	TREATMENT LOUNGE CHAIR	EASEPAL	EC-368B	GRAY	FURNISHED BY OWNER, INSTALLED BY G.C.
	FN-2	2	TECHNICIAN STOOL	PIBBS	939	PV870 - SOFT DOLPHIN	FURNISHED BY OWNER, INSTALLED BY G.C.
	FN-3	1	UTILITY CART	CHOICE	28"x16"x32" KNOCKED DOWN 18 GAUGE STAINLESS STEEL 3 SHELF UTILITY CART	-	
	FN-4	4	NECK AND BACK CHAIR	OAKWORKS	PORTAL PRO MASSAGE CHAIR	-	FURNISHED BY OWNER, INSTALLED BY G.C.
	FN-5	1	NECK AND PILLOW RETAIL FIXTURE	-	-	-	FURNISHED BY FL YOUNG, INSTALLED BY G.C. XPRESSPA TO COORDINATE
	FN-6	1	TREATMENT TABLE	-	-	-	FURNISHED BY OWNER, INSTALLED BY G.C.
	FN-7	2	MANICURE CUSTOMER CHAIR	EASYMODERN	EM-111-CRM	ORANGE	FURNISHED BY OWNER, INSTALLED BY G.C.
	FN-8	3	PEDICURE BOWL	-	-	-	FURNISHED BY OWNER PROVIDED BY G.C.
	FN-9	3	PEDICURE BOWL STAND	IKEA	ALSEDA STOOL 200.339.19	-	FURNISHED BY OWNER PROVIDED BY G.C.
	FN-10	1	MENU STAND	-	-	-	FURNISHED BY OWNER, INSTALLED BY G.C.

# KEY NOTES

1'-0" X 1'-0" LOCKERS, FURNISHED AND INSTALLED BY G.C.

- WALL MOUNTED EYEWASH STATION; BOARDWALK; EMERGENCY EYEWASH STATION, 16OZ.
- BOTTLE, 2 BOTTLES/STATION; FURNISHED AND INSTALLED BY G.C. WALL MOUNTED HAND SANITIZER DISPENSER; PURELL; NXT SPACE SAVER DISPENSER HAND
- SANITIZER DISPENSER; FURNISHED AND INSTALLED BY G.C.
- WATER FILTER; AQUASANA; COUNTERTOP WATER FILTER / AQ-4000; FURNISHED AND INSTALLED BY G.C.
- PAPER TOWEL DISPENSER; GEORGIA PACIFIC; TRANSLUCENT SMOKE PUSH PADDLE NON-PERFORATED ROLL PAPER TOWEL DISPENSER; FURNISHED AND INSTALLED BY G.C.

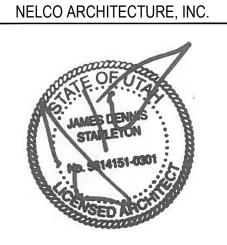
# GENERAL NOTES

- ALL MERCHANDISE FIXTURES, SEATING AND CASHWRAP TO BE SUPPLIED BY THE OWNER G.C. TO VERIFY IN-WALL BLOCKING REQUIREMENTS FOR WALL FIXTURE INSTALLATION w/
- FIXTURE VENDOR.
- ALL FINISHES SHALL COMPLY W/ FLAME SPREAD REQUIREMENTS
  QUANTITIES SHOWN IN THE FIXTURE PLAN ARE PROVIDED FOR OWNER'S USE. FIXTURE VENDOR
  TO VERIFY QUANTITIES PRIOR TO SHIPPING.

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**ISSUE** INFORMATION 01.31.2020

**REVISIONS** 



**PROJECT** INFORMATION

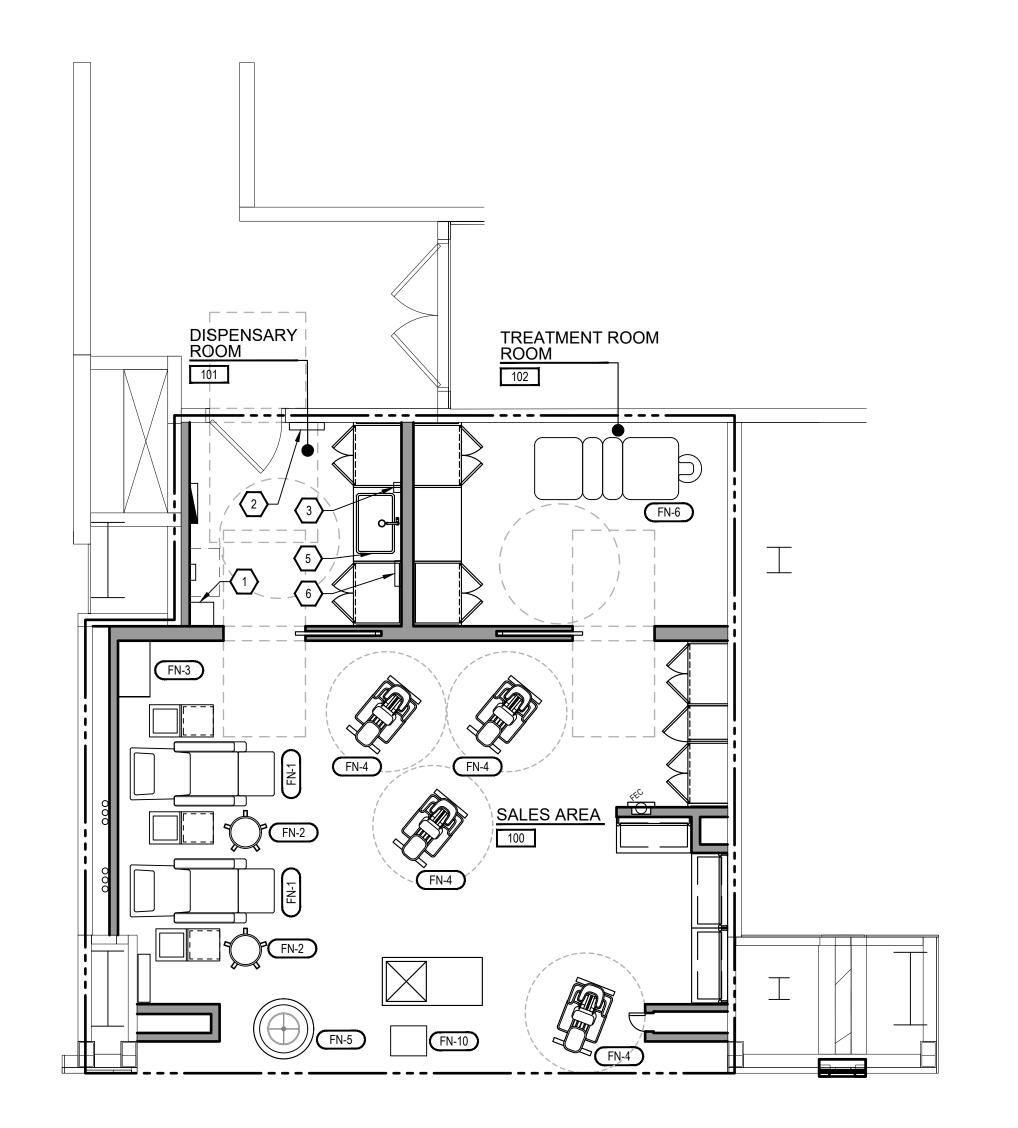
XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122 **PROJECT #:** 19.0003852

ACTUAL SHEET SIZE IS 24"x36" **SHEET** INFORMATION

Fixture Plan & Fixture Schedule

**SCALE:** 1/4" = 1'-0" **AUTHORIZED FOR:** 100% Submittal



LIGHTING LEGEN	LIGHTING LEGEND							
SYMBOL	MARK	DESCRIPTION						
0	L1	RECESSED LED DOWNLIGHT (DIMMABLE) LIGHT FIXTURE						
	L2	SUSPENDED LED PENDANT LIGHT FIXTURE						
<b>\Phi</b>	L3	SUSPENDED CROSSBLEND LED PENDANT LIGHT FIXTURE						
8	L4	LED ROUND DOWNLIGHT						
	L5	LED 2X4 LAY IN CEILING LIGHT FIXTURE						
	L6	RECESSED LED DOWNLIGHT LIGHT FIXTURE						
0	L7	RECESSED LED DOWNLIGHT (DIMMABLE) LIGHT FIXTURE						
	L8	LED 2X2 LAY IN CEILING LIGHT FIXTURE						
	L8.2	24" LINEAR WALL MOUNTED LED STRIP LIGHT FIXTURE - REFER TO MILLWORK DRAWINGS						
EM	EM	RECESSED LED EMERGENCY LIGHT						
H <b>⊘</b> EX-1	EX-1	COMBINATION EMERGENCY / EXIT LIGHT						
	-	WALL SCONCE						
	LP-1	SUSPENDED RING LED PENDANT LIGHT FIXTURE						

LING FINISH K	ŒY	SYMBOLS LEGEND				
TYPE		SYMBOL	MARK	DESCRIPTION		
C1	EXISTING PAINTED GYPSUM BOARD	Ю	CA	DOME SECURITY CAMERA		
C2	PAINTED GYPSUM BOARD	<u> </u>				
C3	PAINTED GYPSUM BOARD WITH EXPOSED CEILING GRID			SUPPLY AIR DIFFUSER - REFER TO MECHANICAL		
C4	24" x 48" ACOUSTICAL LAY-IN CEILING			DRAWINGS		
C5	PAINTED GYPSUM BOARD WITH PLYWOOD SHEATHING					
R TO FINISH SCHEDULE	FOR ADDITIONAL INFORMATION			SUPPLY AIR DIFFUSER - REFER TO MECHANICAL DRAWINGS		
	XX'-X" AFF		-	RETURN AIR - REFER TO MECHANICAL DRAWINGS		
	CEILING FINISH (REFER TO FINISH SCHEDULE)	<b>X</b>	-	HORN/STROBE ANNUNCIATION DEVICE - REFER TO ELECTRICAL DRAWINGS		
	CEILING TYPE (REFER TO SCHEDULE ABOVE)	×	-	VISUAL ONLY STROBE ANNUNCIATION DEVICE - REFER TO ELECTRICAL DRAWINGS		
		(S)	-	SPEAKER		
		(SV)	-	CEILING MOUNTED SPEAKER / VISUAL NOTIFICATION APPLIANCE		
		⟨V⟩	-	CEILING MOUNTED VISUAL ONLY NOTIFICATION APPLIANCE		
		•	-	SPRINKLER PLANS. REFER TO FIRE PROTECTION PLANS.		

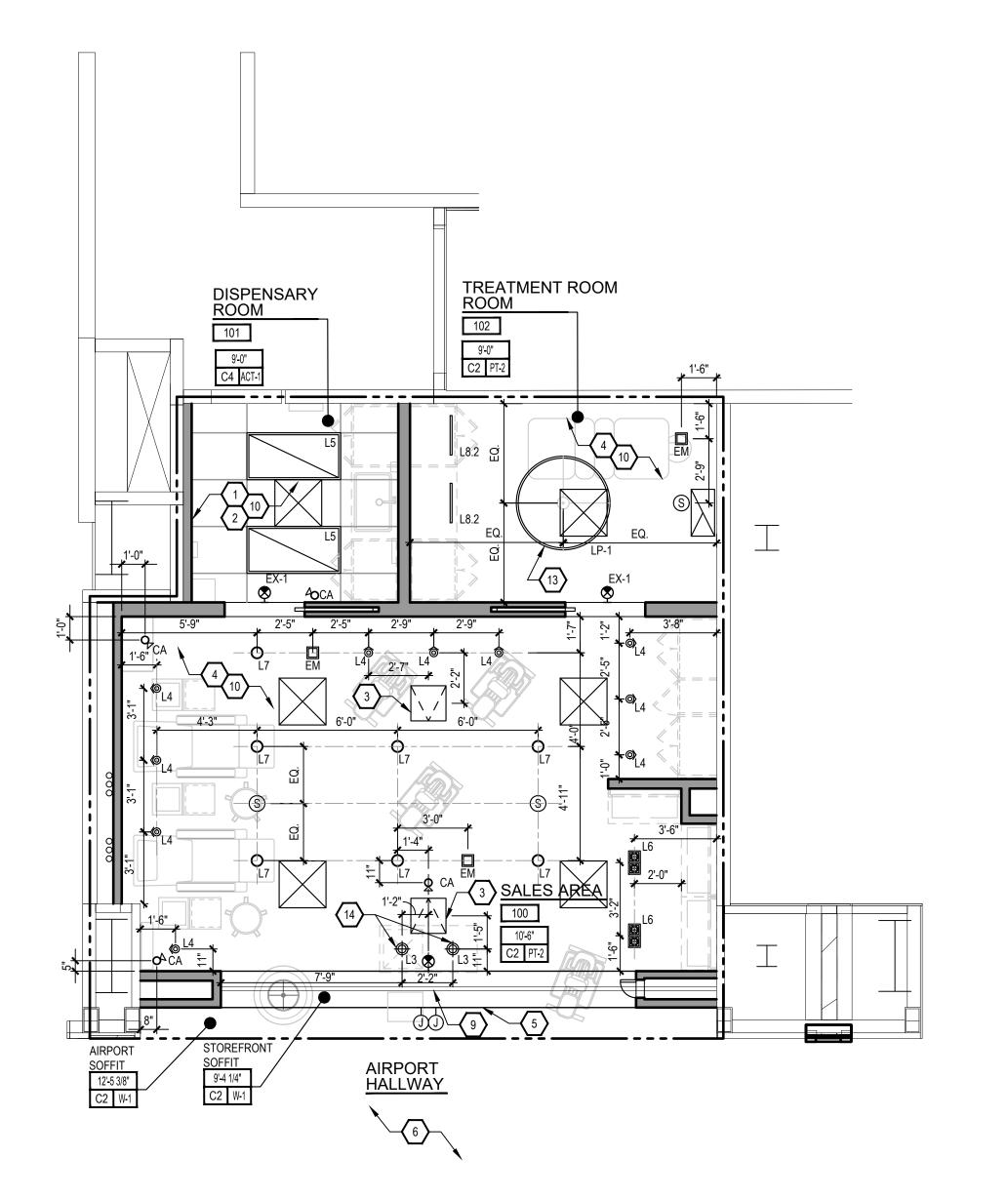
SYMBOLS LEGEND	)		KEY NOTES
SYMBOL	MARK	DESCRIPTION	
Ю	CA	DOME SECURITY CAMERA	<ol> <li>REFER TO DETAIL F9/ A-601 FOR ACOUSTICAL CEILING INSTALLATION DETAIL.</li> <li>ACOUSTICAL CEILING TO BE CENTERED WITHIN SPACE.</li> <li>ACCESS PANEL - BAUCO PLUS II 18" X 18" GYPSUM BOARD ACCESS PANEL. PAINT TO MATCH</li> </ol>
	-	SUPPLY AIR DIFFUSER - REFER TO MECHANICAL DRAWINGS	ADJACENT CEILING. 4. 5/8" TYPE 'X' GYPSUM BOARD OVER SUSPENDED CEILING SYSTEM . SEE DETAIL F9/601. 5. BUILD OUT EXISTING AIRPORT SOFFIT TO NEW STOREFRONT SOFFIT.
	-	SUPPLY AIR DIFFUSER - REFER TO MECHANICAL DRAWINGS	<ul> <li>6. EXISTING CEILING TO REMAIN.</li> <li>7. MATCH AIRPORT STANDARD CEILING MATERIALS/FINISHES, COORD. W/ AIRPORT AUTHORITY PRIOR TO COMMENCING WORK</li> <li>8. EXISTING AIRPORT SOFFIT COVE LIGHTING TO REMAIN.</li> </ul>
	-	RETURN AIR - REFER TO MECHANICAL DRAWINGS	<ul> <li>9. NEW SECURITY GRILLE TRACK.</li> <li>10. REFER TO MEP DRAWINGS FOR SPRINKLER HEAD INFORMATION.</li> <li>11. NEW SECURITY CAMERA, REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.</li> <li>12. EXISTING RECESSED DOWN LIGHT FIXTURE TO REMAIN.</li> </ul>
\	-	HORN/STROBE ANNUNCIATION DEVICE - REFER TO ELECTRICAL DRAWINGS	<ul> <li>13. RING PENDANT LIGHT TO BE HUNG 12" BELOW FINISHED CEILING.</li> <li>14. PENDANT LIGHTS TO BE HUNG AT 3'-0" ABOVE COUNTERTOP</li> <li>15. ELECTRIC WATER HEATER LOCATED ABOVE CEILING. REFER TO DETAIL A1/A602.</li> </ul>
×	-	VISUAL ONLY STROBE ANNUNCIATION DEVICE - REFER TO ELECTRICAL DRAWINGS	
(S)	-	SPEAKER	
SV	-	CEILING MOUNTED SPEAKER / VISUAL NOTIFICATION APPLIANCE	
$\langle V \rangle$	-	CEILING MOUNTED VISUAL ONLY NOTIFICATION	

#### **GENERAL NOTES** KEY NOTES

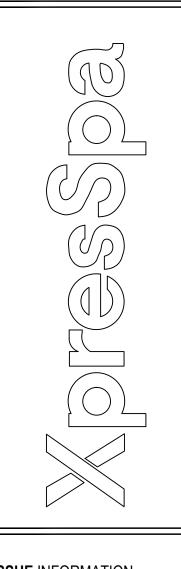
- REFER TO DETAIL F9/ A-601 FOR ACOUSTICAL CEILING INSTALLATION DETAIL.
- 1. ALL EXISTING TRUSS LOCATIONS MUST BE VERIFIED IN FIELD BY G.C. ALL CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR TO UNDERSIDE OF FINISH CEILING OR
- LIGHT FIXTURE TYP. U.N.O.
- THE G.C. SHALL SET ALL CEILING AND SOFFITS USING A LASER LEVEL TO ACHIEVE A CEILING
- THAT IS PLUMB, LEVEL AND SQUARE TO ALL WALLS AND SOFFITS LATERAL BRACING FOR SUSPENDED CEILING MUST BE PROVIDED BY CEILING CONTRACTOR. ADDITIONAL HANGER AND SAFETY WIRES FOR LIGHT FIXTURES, DUCTWORK, SPEAKERS, ETC.
- TO BE THE RESPONSIBILITY OF THE CEILING CONTRACTOR
- THE G.C. TO VERIFY W/ AIRPORT, METHOD OF ATTACHMENT FOR ALL ITEMS ANCHORED TO, OR
- SUSPENDED FROM EXISTING STRUCTURE ARCH. DRAWINGS DETERMINE THE LOCATION OF LUMINAIRES & SUPERSEDE ALL OTHERS, TYP.
- U.N.O. REFER TO ELECT. DRAWINGS FOR EXACT FIXTURE TYPE & QUANTITIES PROVIDED REFER TO MECHANICAL DRAWINGS FOR EXPOSED SUSPENDED MECHANICAL DUCTWORK
- DISTRIBUTION SYSTEM PROVIDE ADEQUATE CLEARANCES FOR FIXTURES, DUCTS, CEILINGS AND RELATED PERTINENT ITEMS NECESSARY TO MAINTAIN SPECIFIC HEIGHTS ABOVE FINISH FLOOR
- THE G.C. TO PROVIDE NECESSARY BLOCKING AND BRACING FOR FIXTURE INSTALLATION AND ALL ELECTRICAL COMPONENTS TO COMPLETE THE FINAL INSTALLATION OF ALL FIXTURES -
- 10. COORDINATE ANY NEW ROOF PENETRATIONS WITH AIRPORT AND AIRPORT'S ROOF CONTRACTOR.
- DIMENSIONS ARE FROM FACE OF GYP. BD. TYP, U.N.O.

COORDINATE WITH FIXTURE SUPPLIER.

COORDINATE ADDITIONAL CEILING ACCESS PANELS W/ PROJECT MANAGER AND AS REQUESTED BY AIRPORT TO MAINTAIN ACCESS TO AIRPORT EQUIPMENT.

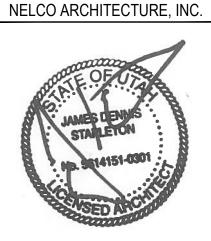


311 Elm Street Suite 600 Cincinnati, OH 45202 513 241 **3000** 



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**PROJECT** INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122 **PROJECT #**: 19.0003852

ACTUAL SHEET SIZE IS 24"x36" **SHEET** INFORMATION

Reflected Ceiling Plan

**AUTHORIZED FOR:** 100% Submittal A-141

Reflected Ceiling Plan

ELECTRICAL & DATA LEGEND							
SYMBOL	DESCRIPTION						
$\Leftrightarrow$	DUPLEX RECEPTACLE						
<b>⊕</b>	DOUBLE DUPLEX RECEPTACLE ("QUAD")						
4	COMBINATION TELE / DATA OUTLET						
OH.	JUNCTION BOX						

### GENERAL NOTES

- 1. IF ANY +/- DIMENSIONS VARY MORE THAN 2" NOTIFY ARCHITECT BEFORE PROCEEDING WITH
- 2. ALL DUPLEX WALL OUTLETS BELOW 30" ARE TO BE MOUNTED VERTICALLY AND ALL DUPLEX WALL OUTLETS OVER 30" ARE TO BE MOUNTED HORIZONTALLY, UNLESS OTHERWISE NOTED I
- WALL OUTLETS OVER 30" ARE TO BE MOUNTED HORIZONTALLY, UNLESS OTHERWISE NOTED IN INTERIOR ELEVATIONS. ALL QUAD OUTLETS ARE TO BE MOUNTED VERTICALLY.
- ALL WALL OUTLETS NOT DIMENSIONED ARE ASSUMED TO BE CENTERED ON THE WALL ON WHICH THEY ARE SHOWN.

  ADDITIONAL PROPERTY CONFIDENCE OF ALL ADDITIONAL PROPERTY CONFIDENCE OF ALL ADDITIONAL PROPERTY CONFIDENCE OF ALL ADDITIONAL PROPERTY.

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  ADDITIONAL PROPERTY CONFIDENCE OF ALL ADDITIONAL PROPERTY
- 4. PROVIDE ALL POWER CONNECTIONS FOR ALL APPLIANCES AND EQUIPMENT. CONFIRM POWER REQUIREMENTS AND OUTLET LOCATIONS WITH MANUFACTURERS SPECIFICATIONS.
- PATCH AND REPAIR ALL PORTIONS OF GWB WALLS AFFECTED BY NEW OUTLET REPLACEMENTS.
   GANG ALL NEW PAIRS OR SERIES OF ELECTRICAL, TELEPHONE, AND CABLE RECEPTACLES ON
- 7. ALL OUTLETS/SWITCHES ON WALLS TO BE WHITE, UNO. ALL OUTLETS IN FLOORS OR BASES TO BE BI ACK UNO.

SINGLE/COMBINED FACEPLATE, WHERE POSSIBLE.

- 8. ALL ELECTRICAL WORK TO COMPLY WITH ALL LOCAL CODES AND RULES/REGULATIONS HAVING JURISDICTION.
- 9. PROVIDE ELECTRICAL AND FINAL HOOK-UPS FOR ALL FIXTURES WHICH CONTAIN ELECTRICAL
- ELEMENTS/LIGHTING. COORDINATE WITH MILLWORK SHOP DRAWINGS.

  10. DO NOT CAP ELECTRICAL NOT SCHEDULED FOR REUSE. ABANDONED UTILITIES MUST BE
- REMOVED BACK TO SOURCE OR NEAREST MAIN.

  11. ALL DIMENSIONS ARE TAKEN FROM FINISHED WALL, UNO.

  12. SEE ELECTRICAL DRAWINGS FOR ALL CIRCUIT AND WIRING SPECIFICATIONS AND DETAILED
- INFORMATION.

  13. SECURITY CAMERAS, MOTION SENSORS AND RELATED EQUIPMENT ARE FURNISHED BY TENANT. COORDINATE INSTALLATION.
- 14. NOTIFY AIRPORT A MINIMUM OF 72 HOURS PRIOR TO ANY SHUTDOWN OF EXISTING EQUIPMENT OR TO MAKE CONNECTIONS TO EXISTING WATER SOURCES OR ELECTRICAL SOURCES.
- 15. THE SLAB MUST BE X-RAYED AND X-RAY RESULTS ALONG WITH AN INTERPRETATION FROM QUALIFIED X-RAY FIRM TO BE SUBMITTED TO AIRPORT PRIOR TO PERFORMING ANY CORE
- DRILLING ACTIVITIES. CORE DRILLING MUST BE DRY TYPE AND NOT WET.

  16. ALL LOW VOLTAGE WIRES TO BE TERMINATED AT I.T. RACK.

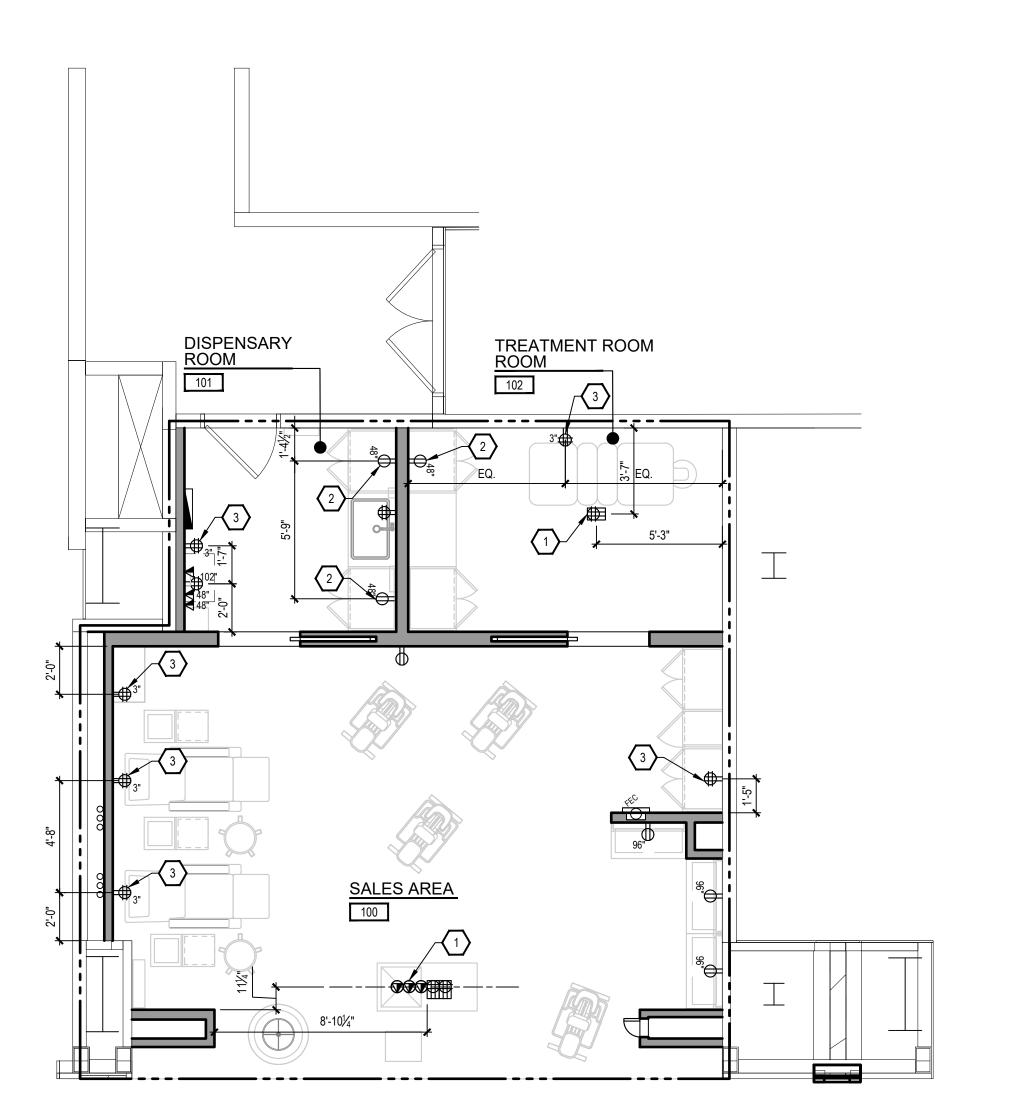
  17. ALL FLOOR JUNCTION BOXES TO HAVE STAINLESS STEEL FINISH, UNO.

>KEY NOTES

- CORE DRILL FOR FLOOR POWER AS INDICATED. SHOWN FOR INTENT ONLY. EXACT ROUTING
   SHALL BE DETERMINED IN FIELD. GC TO LOCATE EXISTING SLAB REINFORCEMENT PRIOR TO

   DRILLING, DO NOT DAMAGE OF DISTURB EXISTING STRUCTURE.
- DRILLING. DO NOT DAMAGE OR DISTURB EXISTING STRUCTURE.

  2. REFER TO MILLWORK DETAILS FOR ELECTRICAL OUTLET PLACEMENT.
- REFER TO MILLWORK DETAILS FOR ELECTRICAL OUTLET PLACEN
   NEW QUAD TO BE INSTALLED CENTERED VERTICALLY ON BASE.



AIRPORT HALLWAY



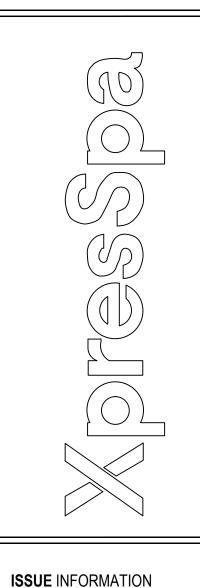
A1 Power Plan

A-151 SCALE: 1/4" = 1'-0"

FRCH NELSON A NELSON BRAND 311 Elm Street Suite 600

Cincinnati, OH 45202

513 241 3**000** 



01.31.2020 REVISIONS

NELCO ARCHITECTURE, INC.



PROJECT INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122

PROJECT #:
19.0003852

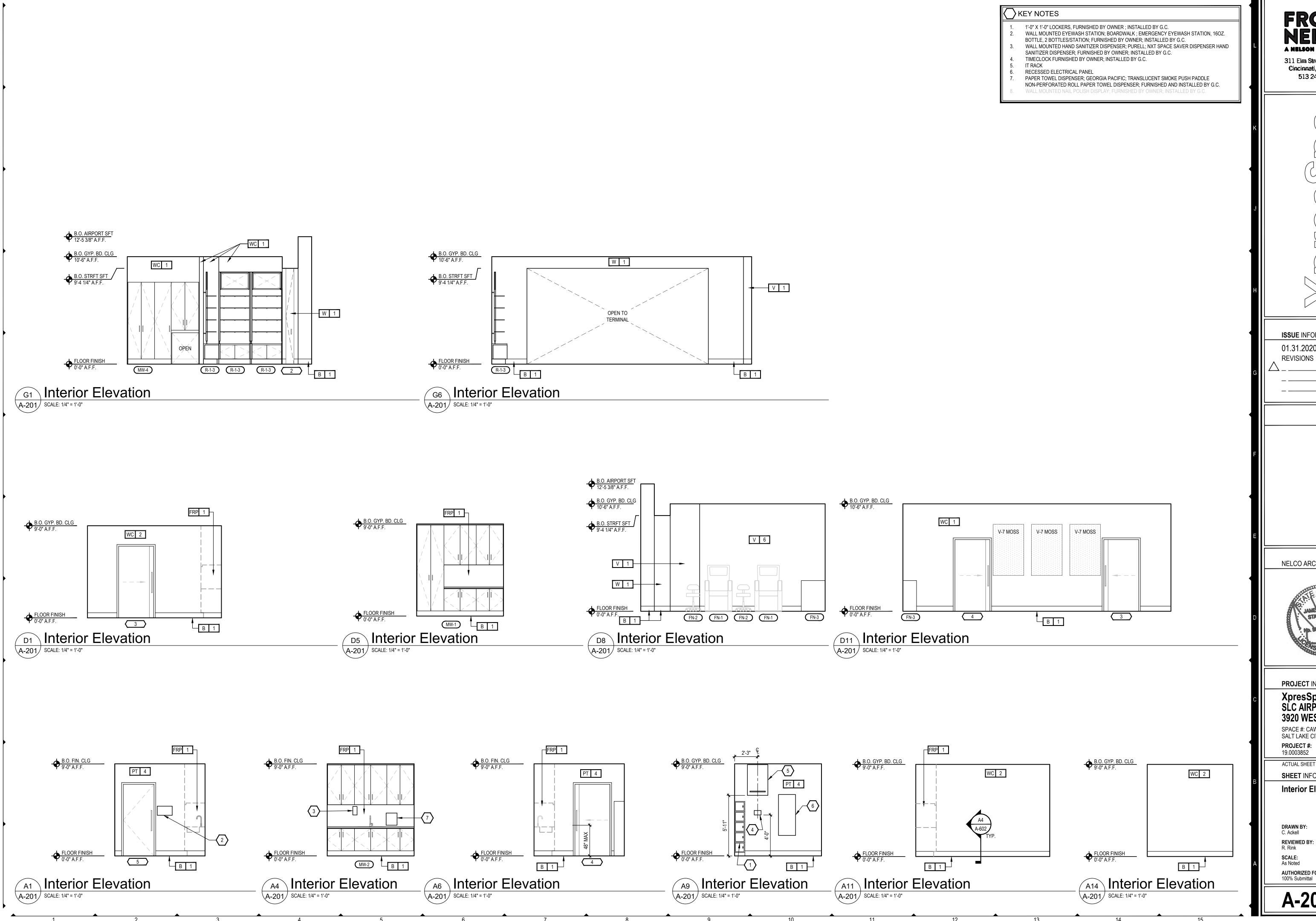
ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

Power Plan

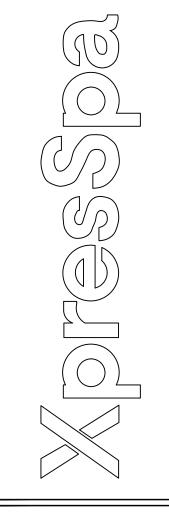
DRAWN BY: C. Ackell REVIEWED BY:

R. Rink SCALE: 1/4" = 1'-0"



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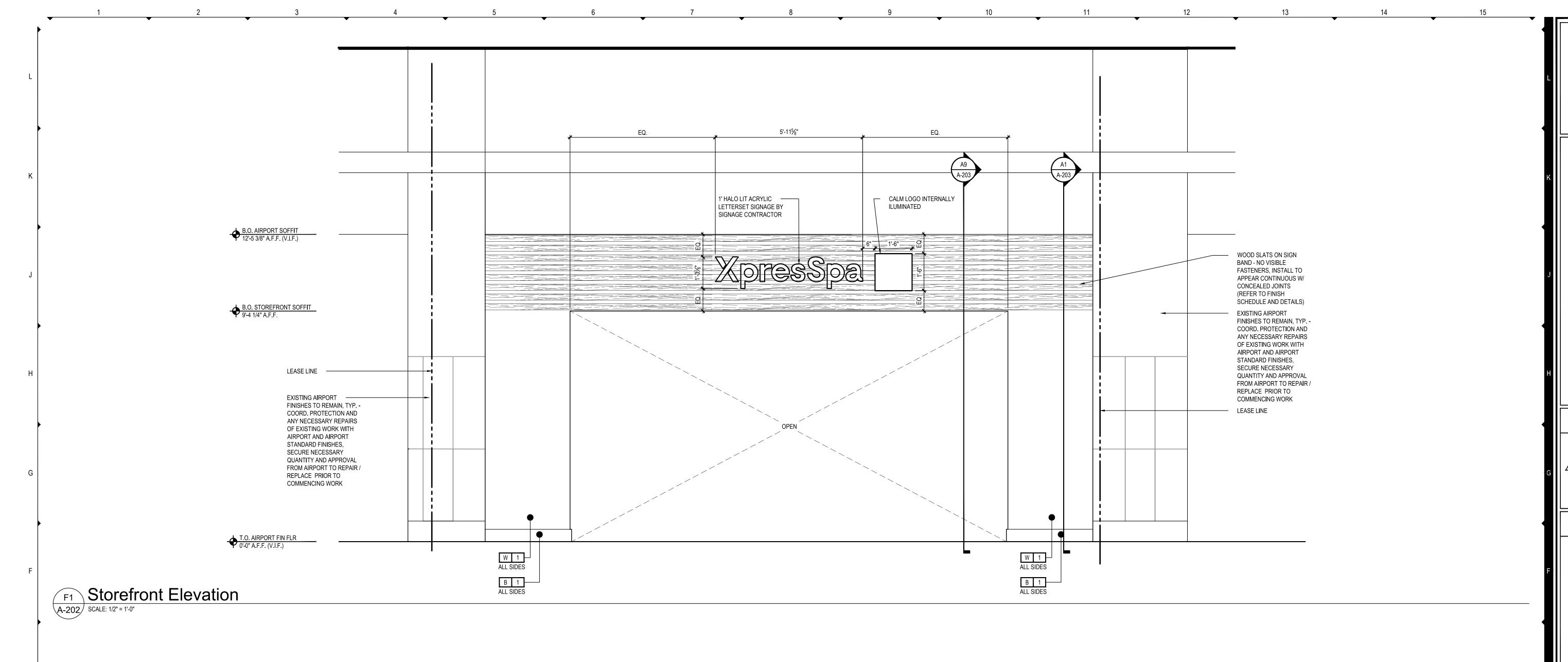
SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122 **PROJECT #:** 19.0003852

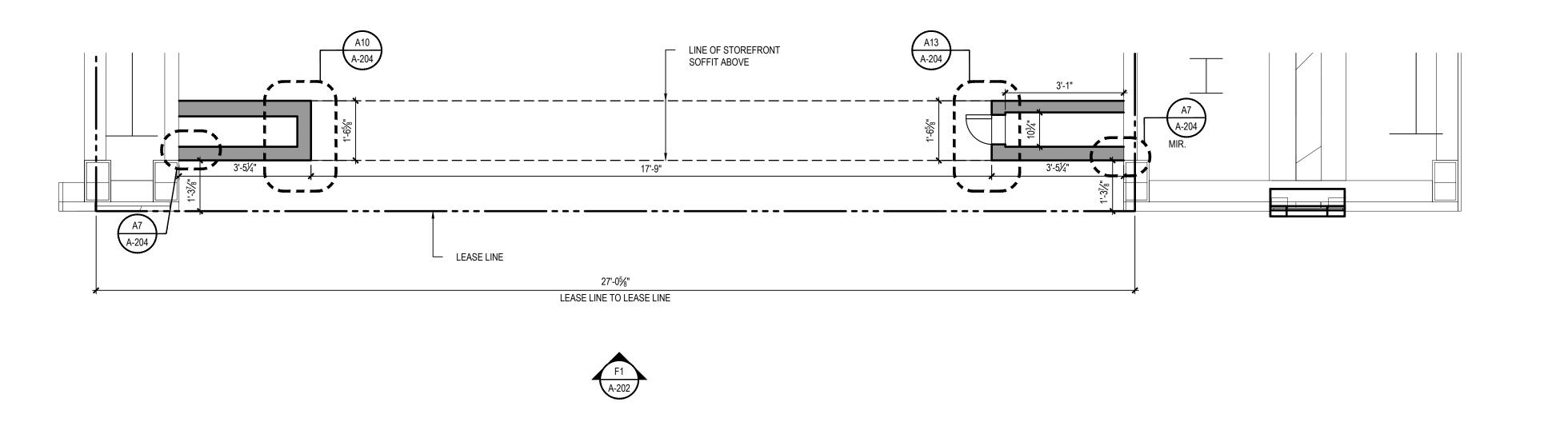
ACTUAL SHEET SIZE IS 24"x36" **SHEET** INFORMATION

**Interior Elevations** 

DRAWN BY: C. Ackell **REVIEWED BY:** R. Rink

**AUTHORIZED FOR:** 100% Submittal



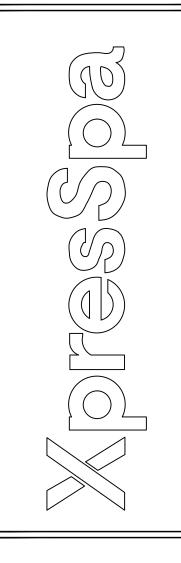


A1 Storefront Plan

A-202 SCALE: 1/2" = 1'-0"

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PROJECT #: 19.0003852 ACTUAL SHEET SIZE IS 24"x36"

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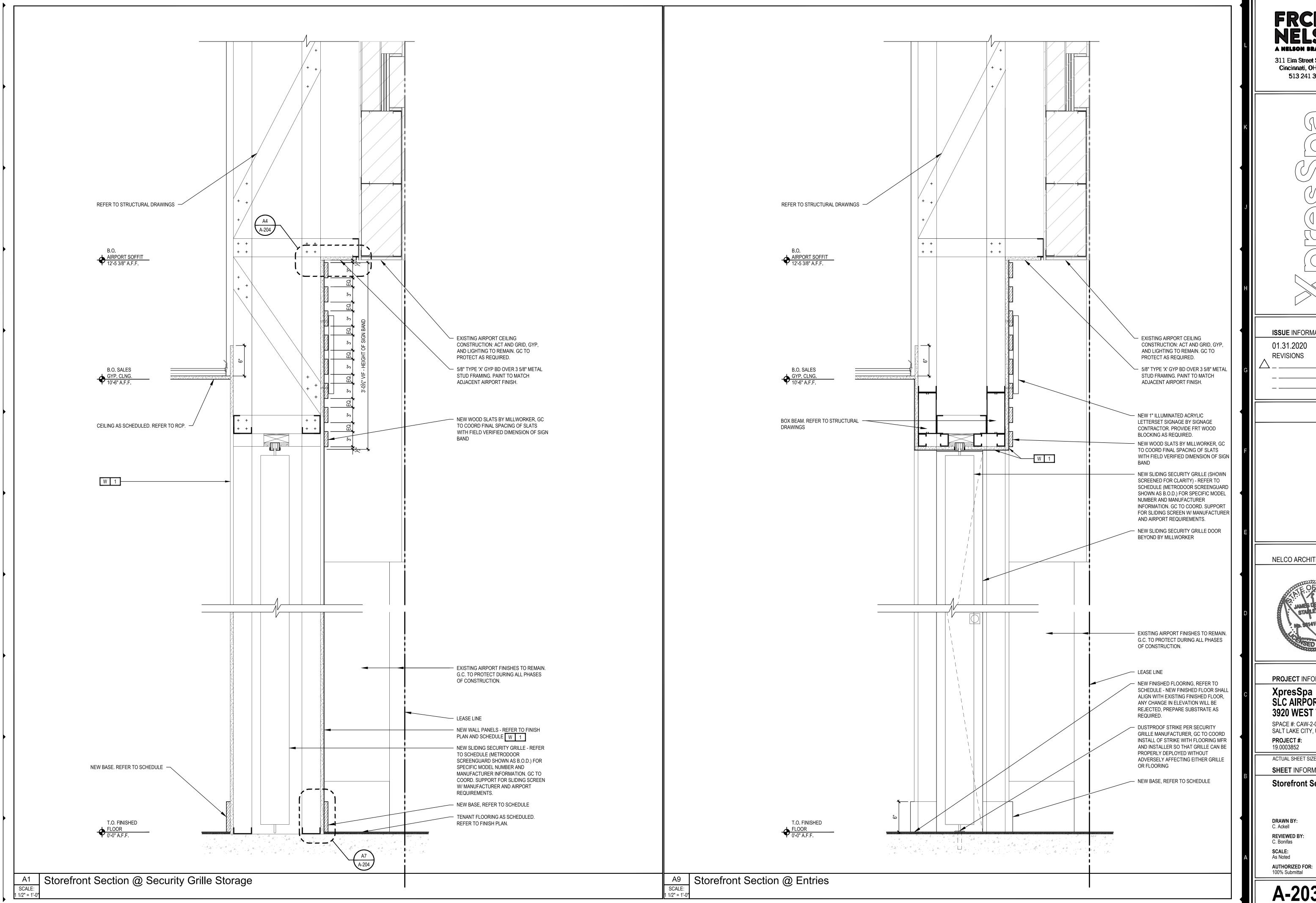
Storefront Plan and

Elevation

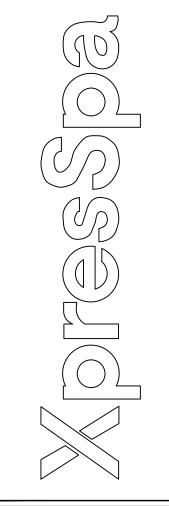
DRAWN BY: C. Ackell REVIEWED BY: R. Rink

SCALE: As Noted

AUTHORIZED FOR:
100% Submittal



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SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122 **PROJECT #:** 19.0003852

ACTUAL SHEET SIZE IS 24"x36"

**SHEET** INFORMATION

**Storefront Sections** 

C. Ackell **REVIEWED BY:** 

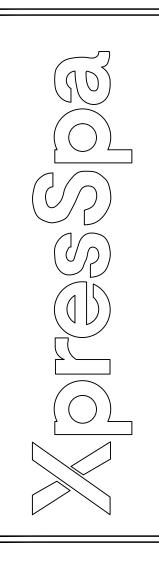
C. Bonifas SCALE: As Noted

W 1 NEW WALL PANEL CONCEALED HINGES — — BOX BEAM REFER TO STRUCTURAL DRAWING MDF DOOR AS SPECIFIED —— PAINTED WHITE (PT-01) ON INSIDE AND BASE (B-1) APPLIED TO OUTSIDE 3-5/8" METAL STUD O.C. 16" \_\_\_ LINE OF BASE (B-1) BELOW PAINTED MDF (PT-01) — 3 5/8" METAL STUD FRAMING LINE OF BASE (B-1) BELOW BOX BEAM REFER TO STRUCTURAL DRAWING LINE OF BASE (B-1) BELOW —— W 1 NEW WALL PANEL 3 %" METAL STUD FRAMING -W 1 NEW WALL PANEL EXISTING AIRPORT FINISHES TO REMAIN GYP. BOARD — A13 STOREFRONT DETAILS

SCALE:
3" = 1'-0" A10 SCALE: 3" = 1'-0" STOREFRONT DETAILS A7
SCALE:
3" = 1'-0" STOREFRONT DETAILS

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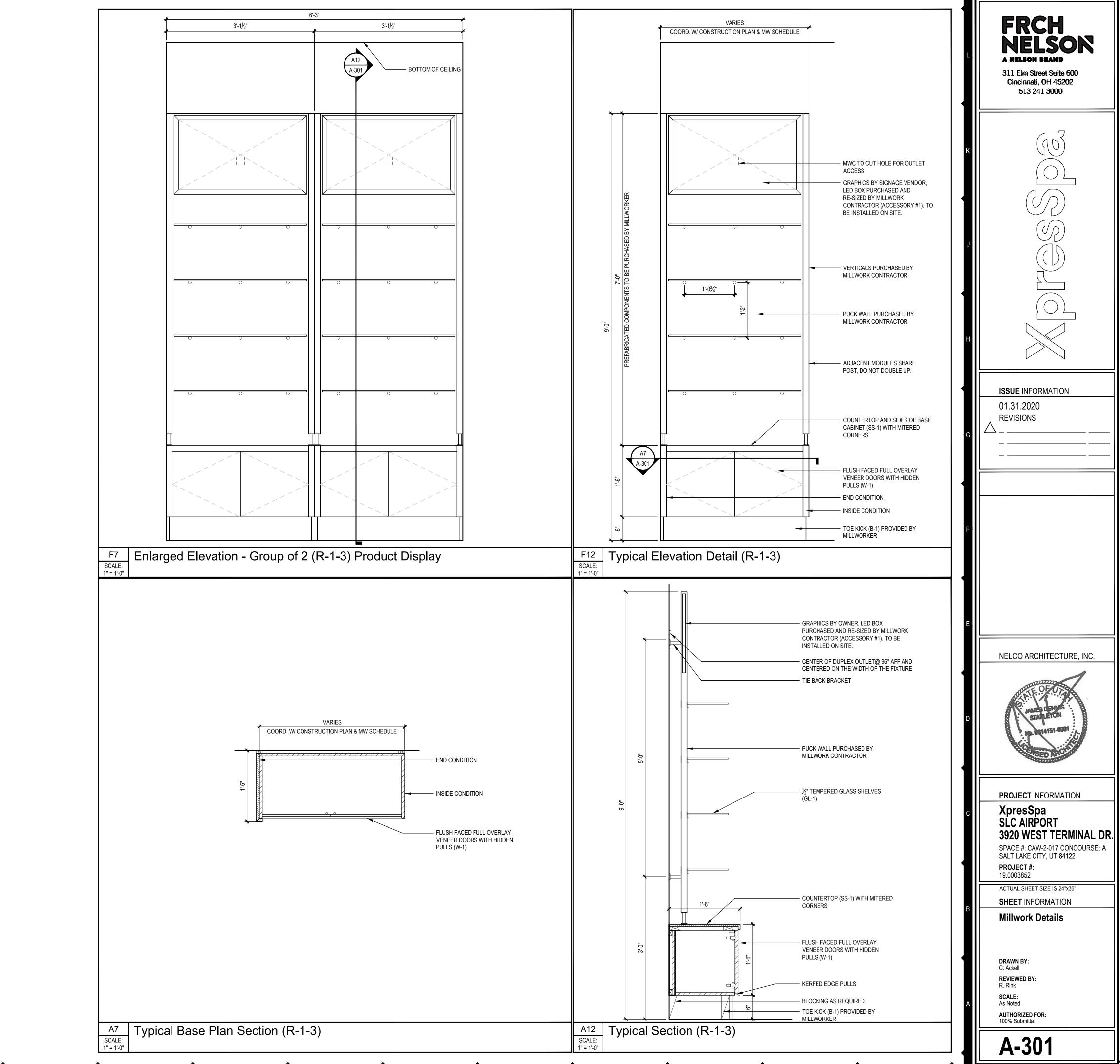
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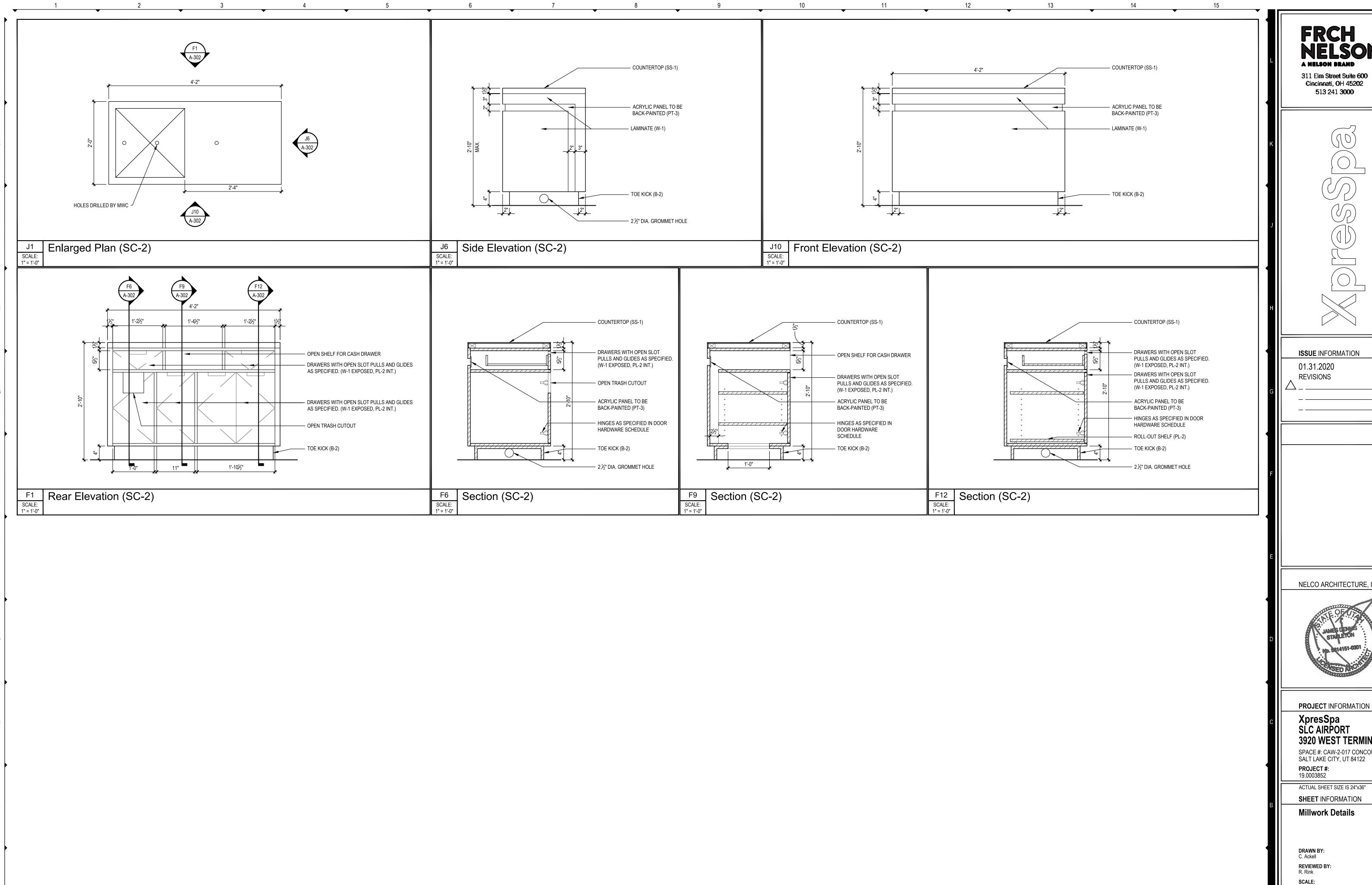
SHEET INFORMATION

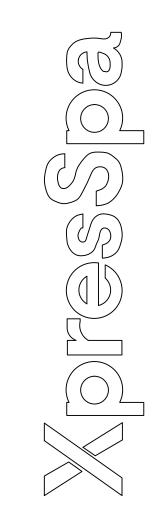
Storefront Details

DRAWN BY: C. Ackell REVIEWED BY: R. Rink

SCALE: As Noted AUTHORIZED FOR: 100% Submittal







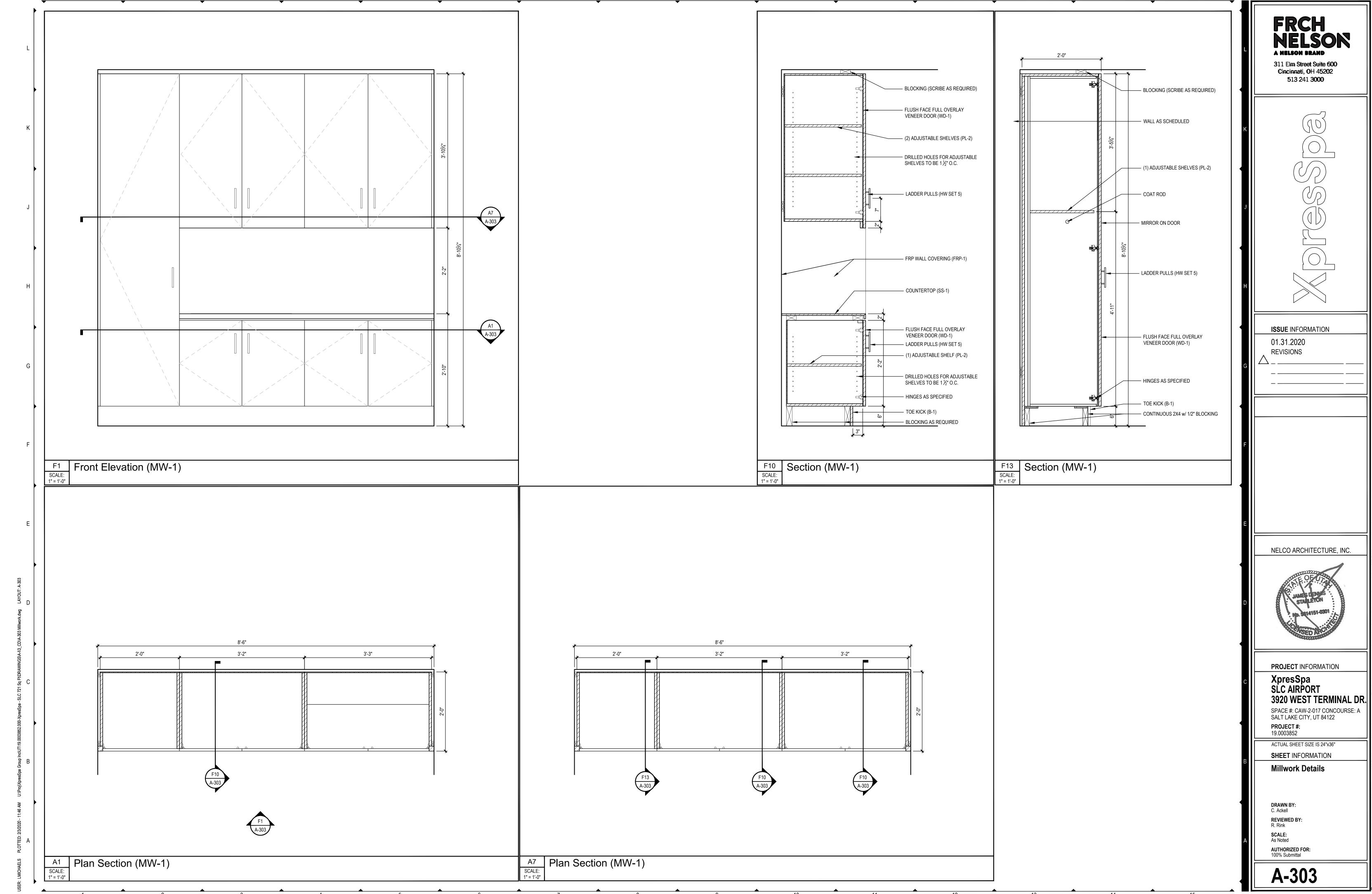
NELCO ARCHITECTURE, INC.

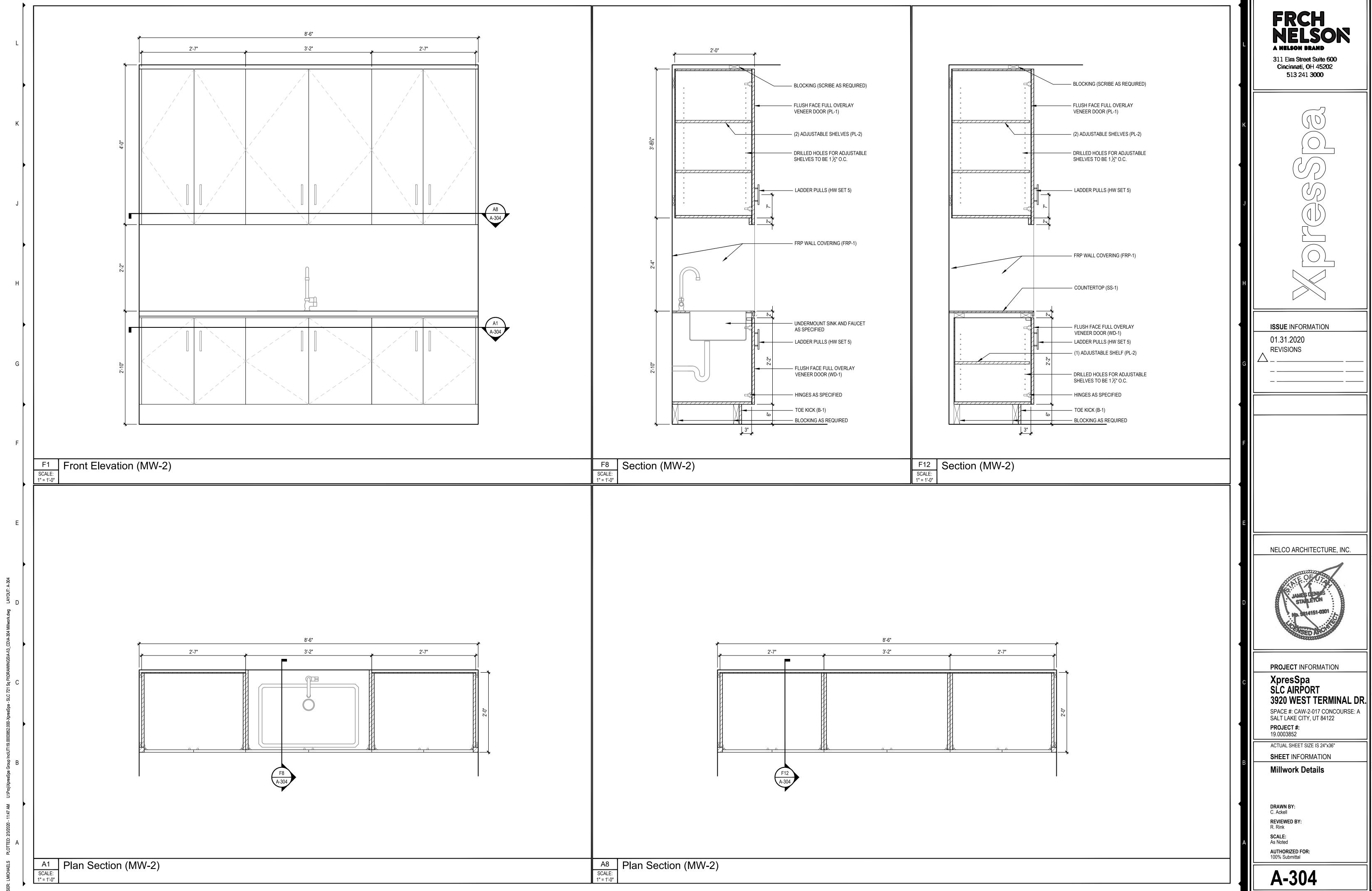


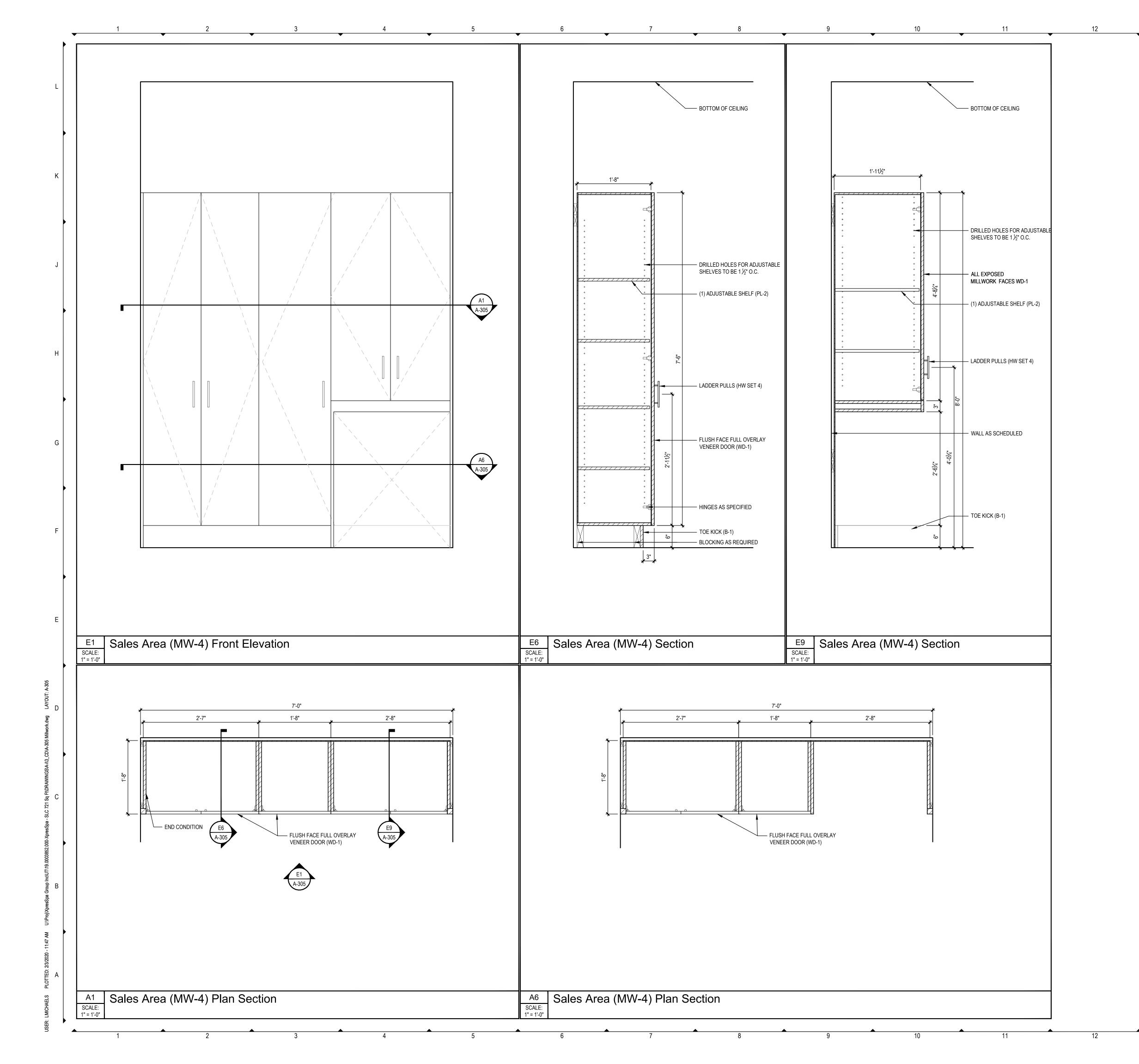
3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122

**AUTHORIZED FOR:** 100% Submittal

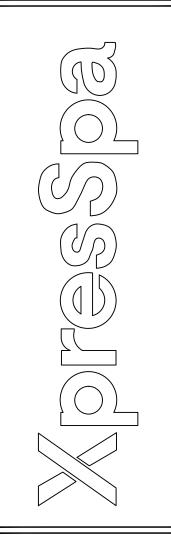






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SPACE #: CAW-2-017 CONCOURSE: A SALT LAKE CITY, UT 84122 PROJECT #: 19.0003852

ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

THE L D 4 !!

Millwork Details

DRAWN BY: C. Ackell REVIEWED BY: R. Rink SCALE:

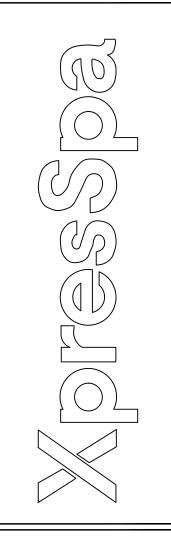
AUTHORIZED FOR: 100% Submittal

B&N SORBETTI SYSTEM (HARDWARE SETUP VARIES) ---- WHITE CORIAN ----- 1/4" X 1/4" NOTCH — "U" CHANNEL TO MATCH MT-1 — WHITE PL TO MATCH CORIAN 1'-0½" 1/4" X 1/4" NOTCH 2'-0" A12 Enlarged Plan Detail

SCALE:
1 1/2" = 1'-0" A8 Pillow fixture Elevation SCALE: 1 1/2" = 1'-0"

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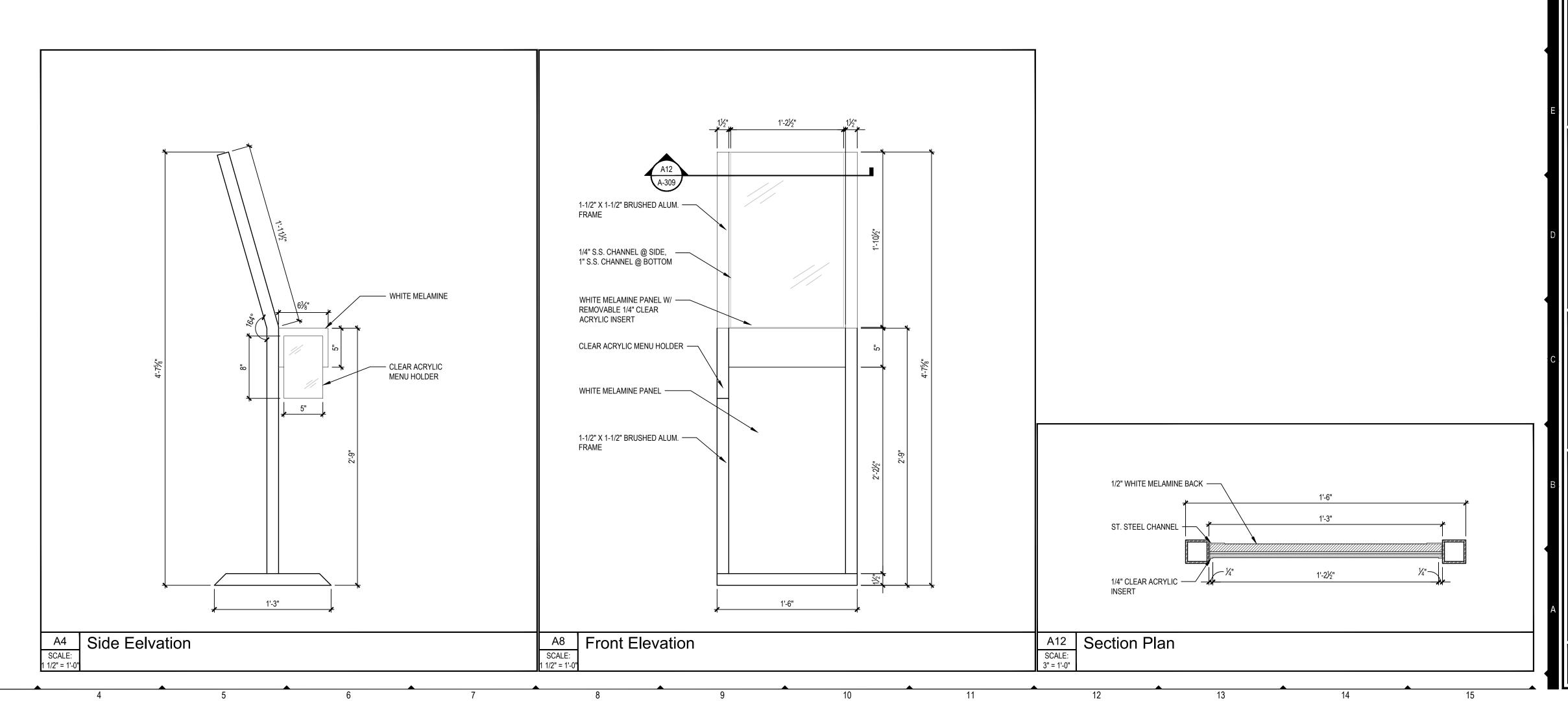
SHEET INFORMATION

Millwork Details

DRAWN BY: C. Ackell REVIEWED BY: R. Rink

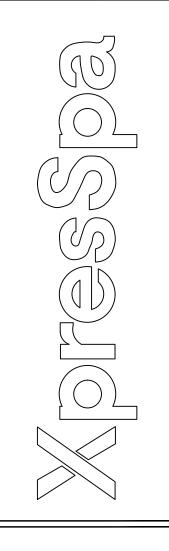
SCALE: As Noted

AUTHORIZED FOR:
100% Submittal





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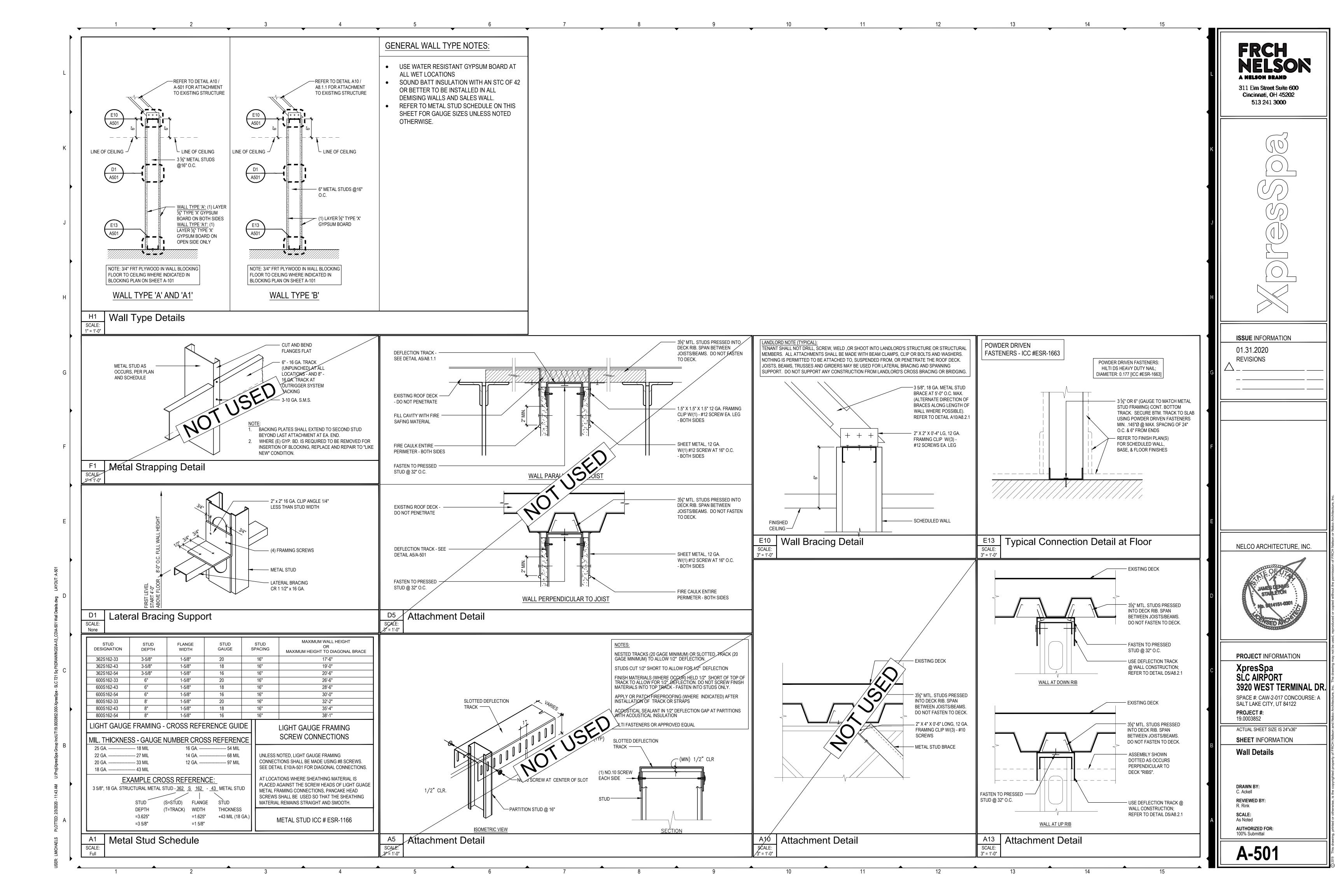
SHEET INFORMATION

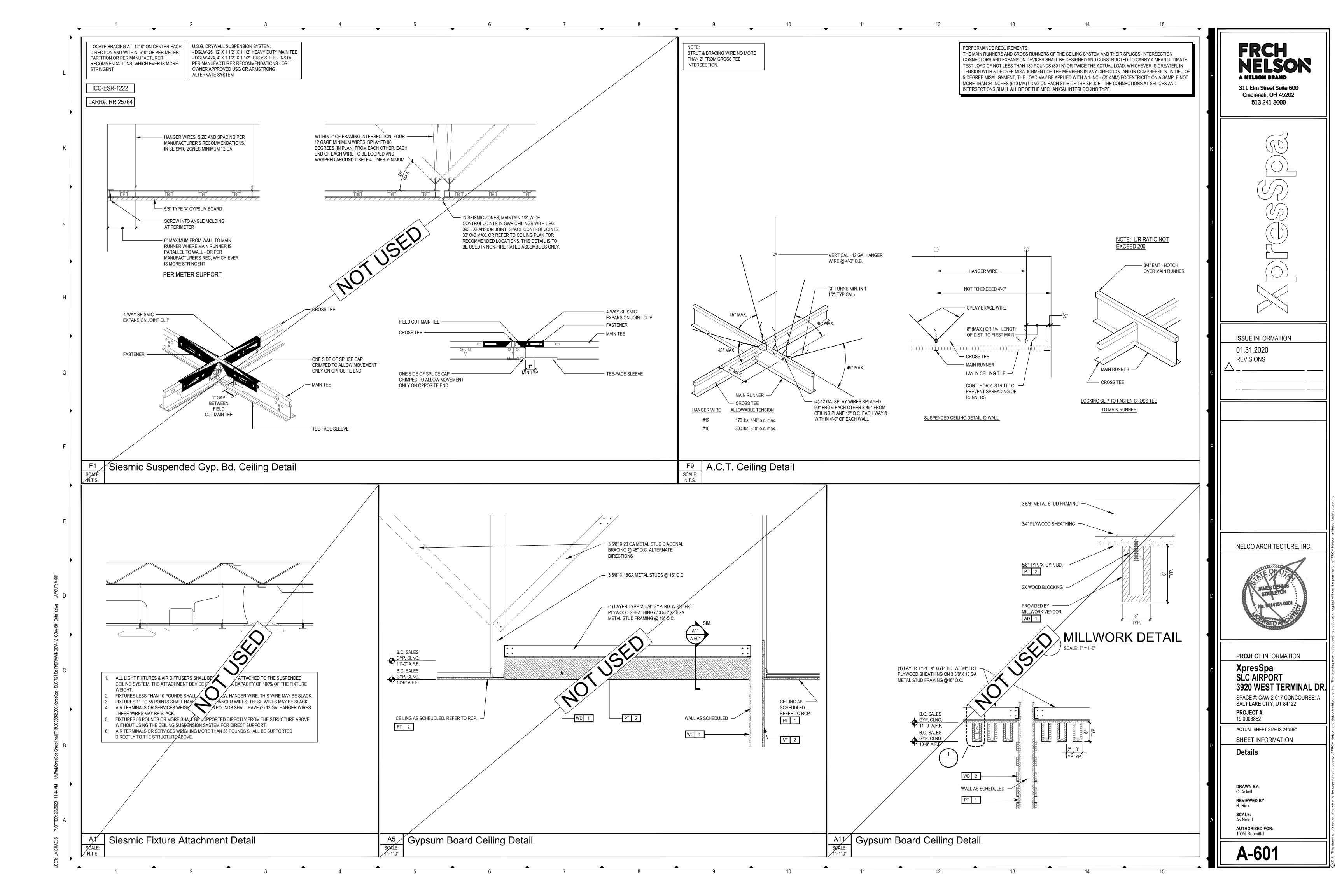
Millwork Details

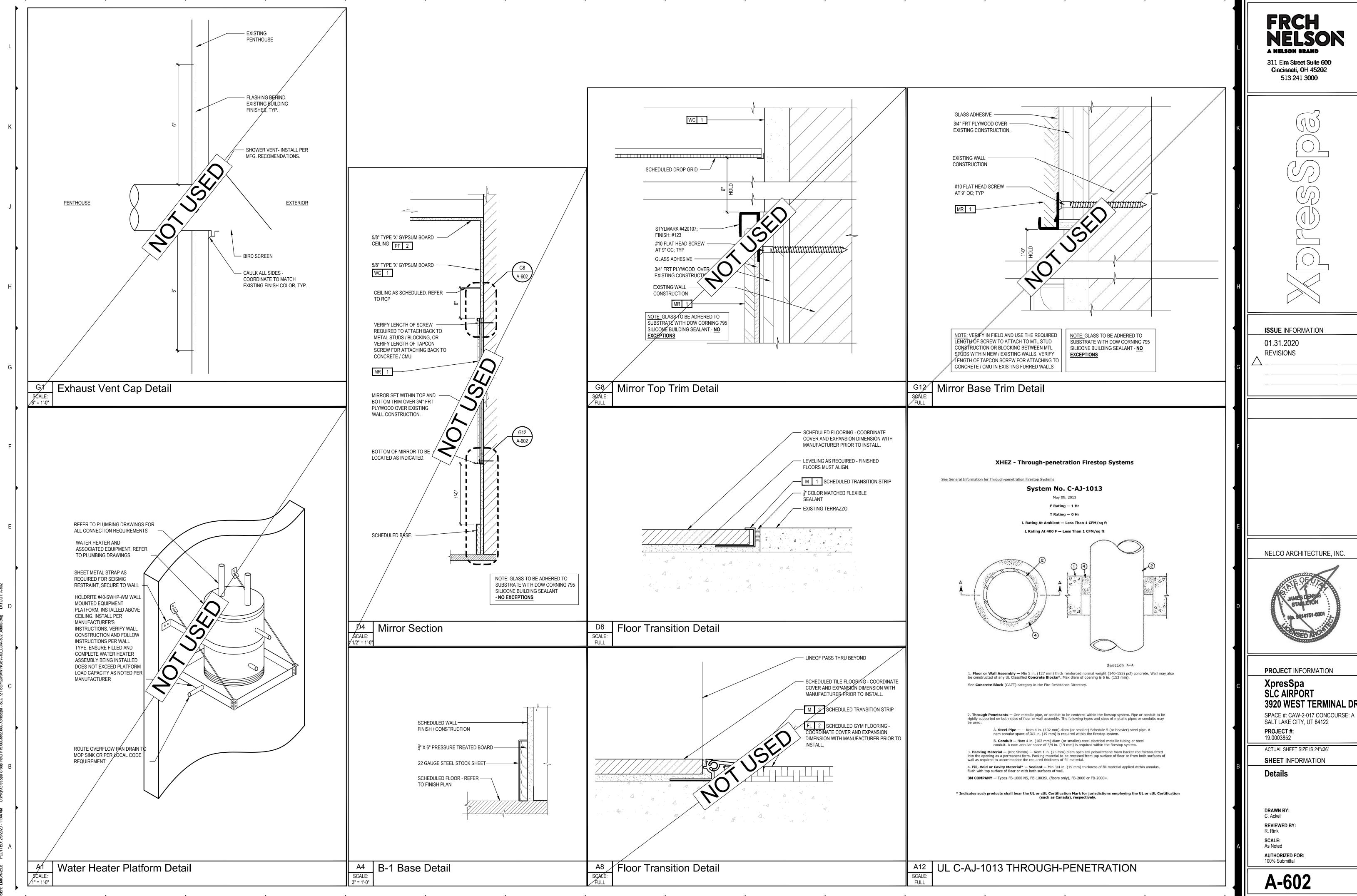
DRAWN BY: C. Ackell REVIEWED BY: R. Rink

SCALE: As Noted

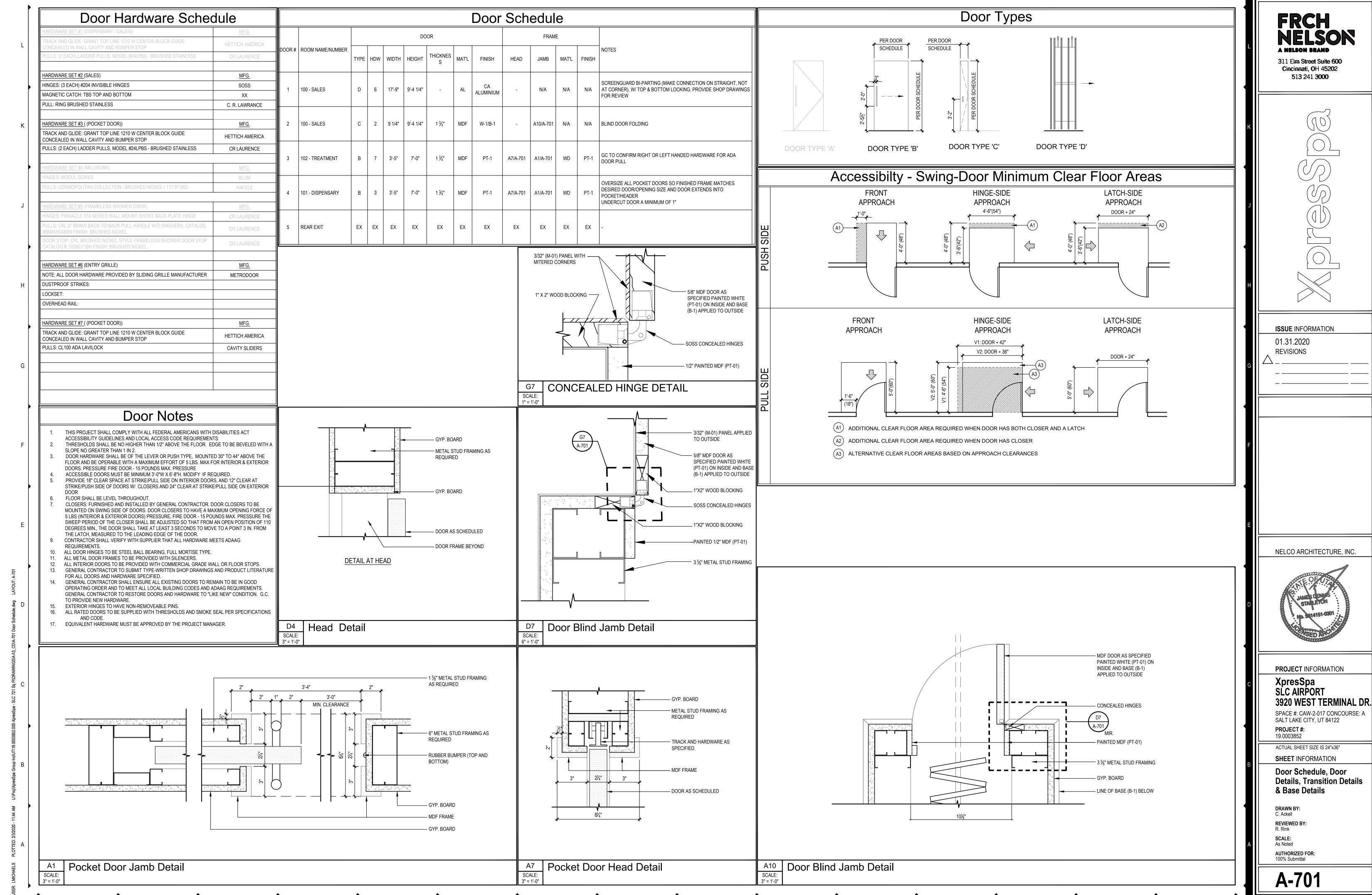
AUTHORIZED FOR:
100% Submittal











SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
XX	MECHANICAL/PLUMBING EQUIPMENT CALLOUT		
$\otimes$	LUMINAIRE TYPE		
XXXX	DIAGRAM/DETAIL CALLOUT		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
——UG——	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	SURFACE RACEWAY/WIREMOLD		
	LOW VOLTAGE CONDUIT RUN		
	DEMOLITION		
	EXISTING		
	HOME RUN TO PANEL		
	CONDUIT STUB		
<u></u>	CONDUIT BREAK/CONTINUATION		
	CONDUIT STUB DOWN		
	CONDUIT STUB UP		
<del></del>	FUSE		
	GROUND/GROUND ROD		
<u>+</u>	CIRCUIT BREAKER		
· · ·	TELEPHONE OUTLET, SINGLE PORT	18"	
<b>V</b>	DATA OUTLET, DUAL PORT	18"	
•	TELEVISION OUTLET	AS NOTED	(6) (11)
	CEILING WI-FI ACCESS POINT	CEILING	(6) (11)
<u> </u>	SECURITY CAMERA, FIXED	CEILING	
<u> </u>	SECURITY CAMERA, PTZ	CEILING	()
Ю	SECURITY CAMERA, FIXED, WALL	AS NOTED	(11)
Ю	SECURITY CAMERA, PTZ, WALL	AS NOTED	(11)
CR	CARD READER	4'-0"	(11)
<b></b>	DOOR CONTACT	4'-0"	(11)
<b>*</b>	REQUEST TO EXIT	4'-0"	(11)
◆	KEYPAD	4'-0"	(11)
◆	ELECTRIC HINGE	4'-0"	(11)
<b></b>	ELECTRIC LATCH	4'-0"	(11)
\$	ELECTRIC STRIKE	4'-0"	(11)
♠	BIOMETRIC READER	4'-0"	(11)
MDF	MAIN DISTRIBUTION FRAME	6'-6" TO TOP	
IDF	INTERMEDIATE DISTRIBUTION FRAME	6'-6" TO TOP	
	MAIN TELEPHONE BOARD	6'-6" TO TOP	
	SECURITY PANEL, SURFACE	AS NOTED	
	SECURITY PANEL, RECESSED	AS NOTED	
RM	RELAY MODULE		(9)
ММ	MONITOR MODULE		(9)
	ABBREVIATIONS		
AFF ABO' AFG ABO' AIC AMP AWG AMEI BC BARI BFC BELC BFG BELC CONI CO CONI CO CONI CO COPI	ILABLE FAULT CURRENT ER EXISTING TO BE RELOCATION OF FINISHED FLOOR EX EXISTING TO REMAIN VE FINISHED GRADE FMC FLEXIBLE METAL CONDUITS INTERS. CAPACITY GC GENERAL CONTRACTOR GICAN WIRE GAUGE GEC GRND. ELEC. COND. AT GFOI GRND. FLT. CURR. INTERDW FINISHED CEILING GND GROUND OW FINISHED GRADE IMC INTER. METAL CONDUIT	TED LOCAL PC PLUME TO POS POINT POS POINT SES R RELOC RR. RM ROOF RMC RIGID RNC RIGID SBJ SYSTE TO TEMP. UG UNDER	LIGHT, BYPASS SWITCHING SING CONTRACTOR OF CONNECTION OF SALE ATED MOUNTED METALLIC CONDUIT NON-METALLIC CON M BONDING JUMPER CIRCUIT AMPERES MITTER CONTROL CONTR. EGROUND S NOTED OTHERWISE

CT	CURRENT TRANSDUCER		METAL. COND.	TC	TEMP. CONTROL CONTR.					
CU	COPPER MATERIAL	LFNC	LIQUID-TIGHT FLEX.	UG	UNDERGROUND					
DED	DEDICATED		NON-METAL. COND.	UNO						
DFA	DROP FROM ABOVE	MC	MECHANICAL CONTRACTOR	VA	VOLT/AMPS					
	ELECTRICAL CONTRACTOR			VIF	VERIFY IN FIELD					
EF CM	EXHAUST FAN	N1	NEMA 1	WP	WEATHERPROOF/NEMA 3R					
EM EMT	EMER./EGRESS BATTERY ELEC. METALLIC TUBING	NSK	NEMA SK		EXPLOSION PROOF					
EM I	ELEC. METALLIC TUBING	N	NEW	XR	EXISTING TO BE REMOVED					
			NOTES							
(1)	SEE LUMINAIRE SCHEDULE	FOR FIX	TURE TYPES AND DETAILS.							
(2)	SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS.									
(3)	WIRE LIGHT FIXTURE FROM ADJACENT J-BOX									
(4)	CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST									
(5)	DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS.									
(6)	COORDINATE MOUNTING HEI	GHT WI	TH ARCHITECTURAL INTERIOR	ELEVA	ATIONS					
(7)	USE WITH POWER PACK.									
(8)	"X" IN SYMBOL IS INCHES	BETWEE	N RECEPTACLE ALONG WIREW	VAY. SI	EE DRAWINGS.					
(9)	PROVIDE UL LISTED DEVICE	COMPA	TIBLE WITH THE FIRE ALARM	PANE	L/SYSTEM.					
(1Ó)			AY WITH THAT OF THE CONT		•					
(11)			RING TO MATCH THE DEVICE							
(12)			COVER APPROPRIATE FOR DE							
(13)	USE HEAVY DUTY DEVICE F			- · · · · _ , ·						
(14)	SIZE TO THE EQUIPMENT B									
(15)			ALARM CONTROL PANEL, NA	C+ NO.	TIFICATION APPLIANCE					
(13)			ANNUNCIATOR PANEL, AND							
	DAVID	MI IIIO	ANTIONION I ANLL, AND	JLJ. J	WICKE EVACOATION SISIEM					

(16) LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.

C,	YMBO	וו	ELECTRICAL SYMBOL SCI DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	CW VMRC	/L	CONTROL MODULE	MOUNTING	(9)
			PRESSURE SWITCH		
					(9)
			TAMPER SWITCH		(9)
	FS (N)	<u>/^\</u>	FLOW SWITCH	IDI EV	(9)
<u>(S)</u> Φ		<u>(Q)</u>	(S) SIMPLEX (D) DUPLEX (Q) QUADPLEX OR DOUBLE DU STANDARD CONVENIENCE OUTLET	JPLEX 18"	
_		<u> </u>			
$\frac{\Phi}{\Phi}$		<b>₩</b>		18"	
		<b>(P)</b>		18"	
			STANDARD CONVENIENCE OUTLET, SWITCHED	18"	
	• • •	<b>₩</b>	STANDARD CONVENIENCE OUTLET, CUSTOM HEIGHT		
<b>\hat{\phi}</b>	<b>\$</b>	<b>\overline{\overline{\pi}}</b>	CONVENIENCE OUTLET, GFCI, CUSTOM HEIGHT		
Ø	Ø	<b>Ø</b>	CONVENIENCE OUTLET, ISOLATED GROUND	18"	
0		$\bigoplus$	CONVENIENCE OUTLET, FLOOR	FLOOR	
Φ	Φ	<b>⊕</b>	CONVENIENCE OUTLET, CEILING	CEILING	
	•	•	2 CIRCUITS TO EACH DEVICE	18"	
	$\mathbb{Q}$		COMBINATION POWER AND COMMUNICATION FLOOR BOX	FLOOR	
	•		SPECIAL PURPOSE OUTLET		
	0		JUNCTION BOX	AS NOTED	(12)
	Ю		JUNCTION BOX, WALL	AS NOTED	(12)
			JUNCTION BOX, FLOOR	FLOOR	(12)
	ᄜ		NON-FUSED DISCONNECT SWITCH		(13) (14)
			FUSED DISCONNECT SWITCH		(13) (14)
			MAGNETIC STARTER		(13) (14)
	<u>~</u> 만		MAGNETIC STARTER WITH FUSED DISCONNECT		
					(13) (14)
	<u></u>		MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)
	R		POWER RELAY		(13) (14)
	<u> </u>		MOTOR OUTLET		
	<u> </u>		MOTOR OUTLET, ROOF MOUNTED	ROOF	
			TRANSFORMER	SEE PLANS	
	T		TRANSFORMER	SEE PLANS	
	Ğ		EMERGENCY GENERATOR	SEE PLANS	
			CABLE TRAY		
<b>//</b>			MAIN DISTRIBUTION POWER PANEL		
			PANEL BOARD, SURFACE	6'-6" TO TOP	(15)
1		Γ	PANEL BOARD, RECESSED	6'-6" TO TOP	(15)
	0	]	2x4 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16
	2		2x4 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16
	0		2x2 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16
			2x2 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16
			RECESSED LIGHT FIXTURE	CEILING	(1) (3)
			RECESSED EMERGENCY LIGHT FIXTURE	CEILING	(1) (3)
	0		CEILING LIGHT FIXTURE	CEILING	(1) (2)
	<u> </u>		PENDANT/CHANDELIER LIGHT FIXTURE	SUSPENDED	(1) (2) (3)
	<u>⊚</u> ⊗		EXIT SIGN, WALL	7'-6"	(1) (2) (3)
	$\frac{1}{\otimes}$		EXIT SIGN, WALL	CEILING	
				7'-6"	(1) (4) (5)
			EMERGENCY LIGHT FIXTURE, WALL		(1) (2)
	<u>@</u>		POWER PACK	CEILING	
	<u>®</u>		SLAVE PACK	CEILING	
	<u>@</u>		MINI POWER PACK	CEILING	
	ECU		EMERGENCY CONTROL UNIT	CEILING	
	<b>①</b>		DUAL TECHNOLOGY VACANCY SENSOR	CEILING	(7)
	<del>(</del>		DUAL TECHNOLOGY VAC. SENSOR, WALL	AS NOTED	(7)
	₩		DAYLIGHT SENSOR	CEILING	
	<b>©</b>		MOTION SENSOR	AS NOTED	
	\$		SINGLE POLE SWITCH	4'-0"	
	\$		DIMMER SWITCH	4'-0"	
	\$		LOW VOLTAGE SWITCH	4'-0"	
	\$ <sup>K</sup>		KEYED SWITCH, SINGLE POLE	4'-0"	(15)
	<u> </u>		LIGHTING CONTROL PANEL, SURFACE	6'-6" TO TOP	
_	<u> </u>		LIGHTING CONTROL PANEL, RECESSED	6'-6" TO TOP	
1	_ `	_	, _, _, , , , , , , , , , _ , , , , _ , , , LLULUULU	10 117	

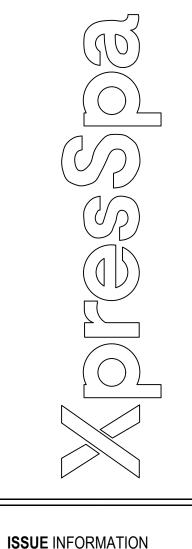
# **GENERAL NOTES**

- 1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM IT'S PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.
- 2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
- 3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.
- 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS ARCHITECTURAL, MECHANICAL, ETC.
- 5. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- 6. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
- 7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
- 8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELE/DATA ROOM FROM WHICH NEW TELE/DATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND ALL NEW TELE/DATA CABLING.
- 9. THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- 10. THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS, CABINETS, DISCONNECT, TRANSFORMERS, ETC. AND SHALL MOVE THE PANELS/EQUIPMENT AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
- 11. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.
- 12. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
- 13. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.
- 14. MINIMUM SIZE CONDUIT SHALL BE 3/4". ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
- 15. FLEXIBLE METAL CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT EXCEED 72" INCHES. USE LFMC IN DAMP OR WET LOCATIONS.
- 16. WIRING DEVICES SHALL MATCH EXISTING COLOR AND FACEPLATE TYPE. COLOR TO MATCH ADJACENT ARCHITECTURAL FINISH. COORDINATE WITH ARCHITECT.
- 17. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.
- 18. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
- 19. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.
- 20. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT SOLELY FROM THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBER.
- 21. TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURE, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT AND STARTING CHARACTERISTICS FOR ALL INSTALLED.
- 22. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120 OR 277VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12(CU,THHN/THWN-2)+1#12(CU,THHN/THWN-2)GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10(CU,THHN) FOR 120VAC BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 100' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
- 23. CONDUCTORS SHALL BE COPPER STRANDED, 600VAC RATED, TYPE THHN/THWN-2 UNLESS OTHERWISE NOTED.
- 24. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER.
- 25. THE ELECTRICAL CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISIS.
- 26. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.
- 27. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.
- 28. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.
- 29. PROVIDE AN UPDATED, TYPED PANEL CIRCUIT DIRECTORY FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED, ADDED, OR REMOVED BY THE SCOPE OF THIS PROJECT. CIRCUIT DESCRIPTIONS ON THE DIRECTORY SHALL BE UNIQUE AND INDICATE THE ROOM AND EQUIPMENT/DEVICE IT IS FEEDING.
- 30. SUBMIT A SCALED LAYOUT (1/4" = 1') OF ALL ELECTRICAL ROOMS BASED ON THE ELECTRICAL GEAR AND EQUIPMENT SUBMITTALS.
- 35. PROVIDE A CLEAR, TYPED LABEL ON THE FACEPLATE OF ALL RECEPTACLES AND LIGHT SWITCHES INDICATING THE CIRCUIT IT IS TIED TO. USE LABELING CONVENTION XX-xx, WHERE "XX" IS THE NAME OF THE PANEL AND "xx" IS THE BRANCH CIRCUIT NUMBER.

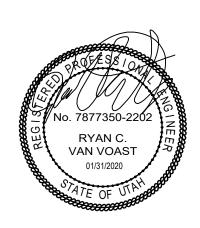
Sheet List Table										
Sheet Number	Sheet Title									
E001	ELECTRICAL NOTES									
E401	ELECTRICAL SPECIFICATIONS									
E501	ELECTRICAL DETAILS									
E701	ONE LINE DIAGRAM									
EP001	ENLARGED ELECTRICAL PLANS									
EP101	ELECTRICAL PLANS									



A WELCOW CRAND
311 Elm Street Suite 600
Cincinnati, OH 45202
513 241 3000



10.24.19
REVISIONS



NELCO ARCHITECTURE, INC.

PROJECT INFORMATION

XpresSpa SLC AIRPORT 776 N TERMINAL DRIVE

SALT LAKE CITY, UT 84122

PROJECT #:
19.0003851.000

ACTUAL SHEET SIZE IS 24"x36"

**SHEET** INFORMATION

**ELECTRICAL NOTES** 

DRAWN BY: AC

REVIEWED BY: KC

AUTHORIZED FOR:

30% REVIEW SET

**E001** 

# **ELECTRICAL SPECIFICATIONS**

#### PART 1 - GENERAL

#### A. DESCRIPTION

1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.

#### B. RULES AND REGULATIONS

- 1. ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND HEREIN SPECIFIED.
- 2. THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, STANDARDS, AND AMENDMENTS, AS
  ADOPTED BY THE AUTHORITY HAVING JURISDICTION, SHALL FORM A PART OF THIS SPECIFICATION THE
  SAME AS IF HEREIN WRITTEN OUT IN FULL (ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE
  APPLICABLE REQUIREMENTS THEREOF):
- a. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), PUBLICATION NUMBER 70, "NATIONAL, ELECTRICAL CODE"; PUB. NO. 72E, "AUTOMATIC FIRE DETECTORS".
- b. UL (UNDERWRITERS LABORATORIES, INC.).
- c. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION).
- d. UBC (UNIFORM BUILDING CODE) AND STANDARD BUILDING CODE.
- e. IBC (INTERNATIONAL BUILDING CODE)
- f. IFC (INTERNATIONAL FIRE CODE)
- g. IECC (INTERNATIONAL ENERGY CONSERVATION CODE)
- h. IEC (INTERNATIONAL ELECTRICAL CODE) STATE AND
- i. LOCAL BUILDING AUTHORITY AND CODES
- 3. NO REQUIREMENT TO THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUCTED TO VOID ANY OF THE PROVISIONS OF THE ABOVE SPECIFICATIONS AND STANDARDS.
- C. PERMITS AND INSPECTIONS UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL APPLY, PAY FOR AND SCHEDULE ALL APPLICABLE PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY AND ALL PUBLIC AUTHORITIES HAVING JURISDICTION AND REQUIRING INSPECTION.
- EC SHALL INCLUDE ALL UTILITY COMPANY CHARGES IN THE BASE BID.

## D. WORKMANSHIP AND MATERIALS

- 1. WORKMANSHIP SHALL BE OF THE BEST QUALITY AND NONE BUT COMPETENT PERSONNEL SKILLED IN THEIR TRADE SHALL BE EMPLOYED. THE CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO WILL BE IN CHARGE OF THE EXECUTION OF WORK, UNTIL COMPLETED AND ACCEPTED.
- 2. UNLESS OTHERWISE HEREIN AFTER SPECIFIED, ALL MATERIALS AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE NEW, OF BEST GRADE AND AS LISTED IN PRINTED CATALOGS OF THE MANUFACTURER. EACH ARTICLE OF IT'S KIND SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER.
- 3. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT TO ACCEPT OR REJECT MATERIAL EQUIPMENT AND/OR WORKMANSHIP AND DETERMINE WHEN THEY HAVE COMPLIED WITH THE REQUIREMENTS HEREIN SPECIFIED.
- 4. ALL MANUFACTURED MATERIALS SHALL BE CLEARLY MARKED OR STAMPED WITH THE MANUFACTURER'S NAME AND RATING.
- 5. REFERENCE TO STANDARDS ARE INTENDED TO BE THE LATEST REVISION OF THE STANDARD SPECIFIED, OR THAT ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

# E. MANUFACTURER'S RECOMMENDATIONS

- 1. EQUIPMENT INSTALLED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE INSTALLED ACCORDING
   TO THE MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR
   HEREIN SPECIFIED.
- F. GUARANTEE ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS SECTION SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR. SHOULD ANY TROUBLE OR MALFUNCTIONS DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR WILL BE HELD LIABLE AND SHALL FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CORRECT THE TROUBLE OR MALFUNCTION WITHOUT ADDITIONAL COST TO THE OWNER. ALL DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTICED DURING THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE ENTIRE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER, AT NO ADDITIONAL COST.

# G. DEFINITIONS

- 1. "PROVIDE" MEANS FURNISH, INSTALL, AND CONNECT, UNLESS OTHERWISE INDICATED.
- 2. "FURNISH" MEANS PURCHASE NEW AND DELIVER IN OPERATING ORDER TO PROJECT SITE.
- 3. "INSTALL" MEANS TO PHYSICALLY INSTALL THE ITEMS IN-PLACE.
- 4. "CONNECT" MEANS MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE OPERATING PIECE OF EQUIPMENT. THIS INCLUDES PROVIDING CONDUIT, WIRE, TERMINATIONS, ETC. AS APPLICABLE.
- 5. "OR EQUIVALENT" MEANS TO PROVIDE EQUIVALENT EQUIPMENT. SUCH EQUIPMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO BIDDING.

# H. SUBMITTALS

- 1. PROVIDE SHOP DRAWINGS AND MANUFACTURER'S LITERATURE OF MATERIALS AND EQUIPMENT AS REQUIRED IN THE GENERAL CONDITIONS, AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND AS LISTED BELOW:
- 2. CATALOG CUTS
- a. CIRCUIT BREAKERS (EACH SIZE AND TYPE)
- b. SAFETY SWITCHES
- c. MOTOR STARTERS
- d. THERMAL SWITCHES
  e. LIGHT FIXTURES
- THE ABOVE IS A STANDARD SUBMITTAL REQUIREMENT LIST. ELECTRICAL CONTRACTOR SHALL SUBMIT ALL APPLICABLE ITEMS FOR REVIEW. MATERIAL NOT SUBMITTED AND APPROVED BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS COST IF DIRECTED BY THE ARCHITECT, ENGINEER OR THE OWNER'S REPRESENTATIVE.

# PART 2 - MATERIALS

#### A. GENERAL

1. MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCT. UL LISTED, AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT.

#### B. RACEWAY

- 1. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.
- 2. GALVANIZED FLEXIBLE STEEL (FMC) OR LIQUID TIGHT STEEL (LFMC) CONDUIT SHALL BE USED FOR CONNECTIONS TO MECHANICAL EQUIPMENT, LUMINAIRES AND TRANSFORMERS AND AS INDICATED. LIQUID TIGHT CONDUIT SHALL BE USED IN EXTERIOR OR DAMP LOCATIONS.
- SCHEDULE 40 PVC (WITH PVC COATED OR VINYL TAPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISES) SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH.
   3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT.
- 5. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE RIGID STEEL CONDUIT.

#### C. FITTINGS

1. ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS.

### D. OUTLET AND JUNCTION BOXES

- 1. BOXES IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE, NOT LESS THAN 4 INCHES SQUARE AND 2 1/8" DEEP; APPLETON, RACO, OR EQUAL.
- 2. BOXES SHALL BE EQUIPPED WITH PLASTER RINGS, EXTENSION RINGS, AND FIXTURE STUDS AS REQUIRED.
- 3. BOXES FOR FLOOR OUTLETS SHALL BE OF THE CAST-METAL THREADED-CONDUIT-ENTRANCE,
  WATERPROOF TYPE WITH MEANS FOR ADJUSTING COVER PLATE TO FINISHED FLOOR LEVEL. BOXES
  SHALL BE SUCH AS HUBBELL B2503 OR EQUAL. THE COVER SHALL BE HUBBELL S3925, S3082 OR EQUAL
  TO MATCH THE FLOOR TYPE OR AS SHOWN ON THE PLANS.
- 4. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
- 5. BOXES FOR STRUCTURED CABLING (DATA & PHONE) IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE 4 11/16" x 2 1/8"; APPLETON, RAYCO OR EQUAL.
- 6. ALL BOXES IN FINISHED SPACES SHALL BE PROVIDED WITH MUD RINGS AS REQUIRED FOR THE DEVICE AND WALL MATERIAL.
- 7. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE CAST METAL OR PVC OUTLET, JUNCTION, AND PULL BOXES.

## E. CONDUCTORS

- 1. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER IN RACEWAY SIZED AS SHOWN ON THE PLANS. ALL CONDUCTORS TO BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE #8 AWG AND LARGER SHALL BE STRANDED.
- 2. CONDUCTORS SHALL BE COPPER, THHN OR THWN-2 COLOR CODED IN ACCORDANCE WITH PART 3, SECTION C. 1. OF THESE SPECIFICATIONS OR AS INDICATED ON THE DRAWINGS.

# F. WIRING CONNECTIONS

- 1. MAKE ALL ELECTRICAL CONNECTIONS.
- 2. MAKE CONNECTION TO DEVICES USING "PIG-TAILS". DO NOT USE A DEVICE AS A CONNECTION OR A SPLICE UNIT.
- 3. DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER SCREWS. INSTALL CRIMP-ON, INSULATED, FORK TERMINALS FOR CONDUCTOR TERMINATIONS, OR INSTALL SOLID CONDUCTORS.

# G. NAMEPLATES

PROVIDE EACH PANEL BOARD, DISCONNECT SWITCH, AND BREAKER IN SWITCHBOARD WITH A MICARTA
 PLASTIC NAMEPLATE MADE OF WHITE-FACED BLACKCORE PLASTIC LAMINATE. NAMEPLATE SHALL BE
 MINIMUM 3" WIDE BY 3/4" HIGH FOR PANEL BOARD IDENTIFICATION INCLUDE DESIGNATION, PHASE,
 VOLTAGE, AND CIRCUIT NUMBER. FASTEN WITH EPOXY GLUE, DOUBLE STICK TAPE IS NOT ACCEPTABLE.

# J. FRACTIONAL HORSEPOWER MANUAL STARTER

- 1. PROVIDE FRACTIONAL HORSEPOWER MANUAL STARTER WITH THE FOLLOWING FEATURES.
- a. MELTING ALLOY TYPE THERMAL OVERLOAD RELAY
- b. RED NEON PILOT LIGHT
- c. THERMAL ELEMENT SIZED FOR MOTOR LOAD

  2. PROVIDE A NAMEPLATE ON EACH COMPONENT OF MOTOR CONTROL EQUIPMENT AS SPECIFIED IN

# K. SAFETY SWITCHES

- 1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SAFETY SWITCHES AS INDICATED ON THE DRAWINGS OR AS REQUIRED. ALL SAFETY SWITCHES SHALL BE UL LISTED. THE SWITCHES SHALL BE FUSED SAFETY SWITCHES OR NON-FUSED SAFETY SWITCHES AS SHOWN ON THE DRAWINGS OR REQUIRED BY CODE AND SHALL BE MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR CUTLER HAMMER.
- 2. SWITCHES SHALL HAVE A QUICK-MAKE AND QUICK-BREAK OPERATING HANDLE AND MECHANISM WHICH SHALL BE AN INTEGRAL PART OF THE BOX. PADLOCKING PROVISIONS SHALL BE PROVIDED FOR PADLOCKING IN THE OFF POSITION WITH AT LEAST THREE PADLOCKS. SWITCHES SHALL BE HORSEPOWER RATED FOR 250 VOLTS AC OR DC OR 600 VOLTS AC AS REQUIRED. LUGS SHALL BE UL LISTED FOR COPPER AND ALUMINUM CABLE AND SHALL HAVE A TEMPERATURE RATING OF AT LEAST 75 DEGREES C.
- 3. SWITCHES SHALL BE FURNISHED IN NEMA 1 HEAVY DUTY ENCLOSURES WITH KNOCKOUTS UNLESS OTHERWISE NOTED OR REQUIRED. SWITCHES LOCATED ON THE EXTERIOR OF THE BUILDING OR IN "WET" LOCATIONS SHALL HAVE NEMA 3R ENCLOSURES (WP).
- 4. THE SAFETY SWITCHES SHALL BE SECURELY MOUNTED IN ACCORDANCE WITH THE NEC. THE CONTRACTOR SHALL PROVIDE ALL MOUNTING MATERIALS AND INSTALL FUSES IN THE FUSED SAFETY SWITCHES. THE FUSES SHALL BE DUAL ELEMENT ON MOTOR CIRCUITS.
- 5. PROVIDE FUSES AS SPECIFIED BELOW. FUSES SHALL BE INSTALLED SO THAT THE RATING IS CLEARLY VISIBLE WITHOUT REMOVING FUSE. PROVIDE A SPARE FUSE FOR EACH FUSE INSTALLED.6. PROVIDE A NAMEPLATE ON EACH DISCONNECT SWITCH AS SPECIFIED IN "NAMEPLATES".

# \_...\_

L. FUSES

1. FUSES SHALL BE CLASS "RK-1" REJECTION TYPE. FUSES SERVING MOTOR LOADS SHALL BE DUAL
ELEMENT WITH A MINIMUM TIME DELAY OF 10 SECONDS AT 500% RATING. FUSES SHALL BE CURRENT
LIMITING TIME DELAY TYPE WITH INTERRUPTING CAPACITY OF 200,000 AMP RMS SYMMETRICAL.

2. FUSES SERVING SWITCH OR CIRCUIT BREAKER DISTRIBUTION PANELS, LIGHTING PANEL BOARDS AND

- OTHER NON MOTOR LOADS NEED NOT BE TIME DELAY TYPE, BUT SHALL BE CURRENT LIMITING WITH THE INTERRUPTING CAPACITY OF 200,000AMP RMS SYMMETRICAL MINIMUM. FUSES SHALL BE BUSSMAN, GOULD OR LITTELFUSE.
- 3. PROVIDE FUSES SIZED TO THE MAXIMUM SIZE RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT OR AS SHOWN ON THE DRAWINGS IF THE MANUFACTURER DOES NOT HAVE A RECOMMENDED SIZE.

#### PART 3 - EXECUTION

#### A. GENERAL

- 1. ALL MATERIALS SHALL BE INSTALLED IN A PROFESSIONAL MANNER INDICATIVE OF THE TRADE.
- 2. ALL PENETRATIONS OF THE OUTSIDE WALLS OR ROOF SHALL BE SEALED WITH APPROPRIATE SEALANT OR CAULK FOR THE PARTICULAR SURFACE INVOLVED.
- 3. PROVIDE CLEAR, TYPED, P-TOUCH LABEL FOR ALL RECEPTACLES COVERPLATES IDENTIFYING THE CIRCUIT NUMBER THAT THE RECEPTACLE IS CIRCUITED TO.
- 4. PROVIDE UPDATED TYPED PANEL SCHEDULE INDEX FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED OR CHANGED.

#### B. RACEWAYS

- RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL BE PARALLEL WITH SUPPORTING WALLS, BEAMS, AND CEILINGS AND WITH EACH OTHER CLOSER THAN 6 INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL NOT FLUME.
- 2. RACEWAY ENDS SHALL BE REAMED AFTER THREADING AND AFTER CUTTING AND BE MADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED.
- 3. RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET, BOX OR FITTINGS, AND SHALL BE MECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE TO ANOTHER IS OBTAINED. CONDUITS SHALL BE SUPPORTED WITH ONE OR TWO HOLE STAMPED STEEL OR MALLEABLE IRON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIGNED FOR SUPPORTING CONDUIT. THE SIZE OF STRAP SHALL MATCH THE SIZE OF THE CONDUIT. NAILS, PERFORATED STRAP, OR PLUMBERS TAPE SHALL NOT BE USED FOR SUPPORT OF RACEWAY.
- 4. PROVIDE 1/8" POLY PULL CORD IN RACEWAYS WITHOUT CONDUCTORS.
- 5. FOUR 90 DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES.

### C. CONDUCTORS

1. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT AND COLOR CODED AS FOLLOWS:

PHASE	208/12
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
CDOLIND	CDEEN

2. MAKE JOINTS, SPLICES, TAPS AND CONNECTIONS IN CONDUCTORS WITH SOLDERLESS CONNECTORS.

### D. JUNCTION AND PULL BOXES

1. PULL BOXES SHALL BE PROVIDED WHERE INDICATED AND WHERE NECESSARY TO FACILITATE THE PULLING OF CONDUCTORS. TELEPHONE RACEWAYS SHALL HAVE A MAXIMUM OF TWO 90 DEGREE BENDS BETWEEN TERMINATIONS OR BOXES.

# E. GROUNDING

1. INSTALL A CODE SIZED GROUNDING CONDUCTOR IN ALL RACEWAYS. DO NOT USE THE RACEWAY FOR GROUNDING. MAKE GOOD CONTACT AT ALL PANEL BOARDS, OUTLET BOXES, AND JUNCTION OR PULL BOXES TO THE RACEWAY SYSTEM. USE APPROVED BONDING MATERIALS.

# G. BONDING

1. BOND ALL PIPING (GAS WATER, ETC) AS REQUIRED BY THE NEC. CONFIRM SYSTEMS TO BE USED WITH MC

# H. SEISMIC REQUIREMENTS

1. IF REQUIRED, RECESSED TYPE LIGHTING FIXTURES, IN ADDITION TO THE STANDARD SEISMIC CLIPS AND SUPPORT ON T-BAR GRID SYSTEM, SHALL HAVE 2#12 STEEL SAFETY WIRES PER FIXTURE. ONE END OF EACH SAFETY WIRE SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE. THE OTHER END (6 INCHES LONGER THAN THE T-BAR GRID SUPPORT WIRES) SHALL BE FASTENED TO DIAGONAL CORNERS OF EACH LIGHTING FIXTURE.

# I. CUTTING AND PATCHING

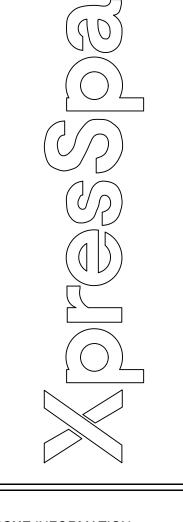
1. PERFORM DRILLING, CUTTING, AND PATCHING OF THE GENERAL CONSTRUCTION WORK WHETHER EXISTING OR NEW, AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK. PATCH WITH THE SAME MATERIALS, WORKMANSHIP, AND FINISH AS THE ORIGINAL WORK AND ACCURATELY MATCH ALL SURROUNDING WORK. SUCH WORK WILL BE DONE BY A CRAFTSMAN ACCREDITED IN THE APPLICABLE TRADE UNDER THE CONTRACTOR'S SUPERVISION AND BE ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. COORDINATE WITH OTHER TRADES AND GENERAL CONTRACTOR PRIOR TO CUTTING, DRILLING, OR CORING.

# K. TESTI

- 1. DEMONSTRATE THAT ALL COMPONENTS OF THE WORK OF THIS DIVISION HAVE BEEN PROVIDED AND THAT THEY OPERATE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 2. TEST WIRING AND CONNECTORS FOR CONTINUITY, SHORT CIRCUITS AND IMPROPER GROUNDS. TEST EACH LIGHTING AND APPLIANCE PANEL WITH MAINS DISCONNECTED FROM FEEDERS, BRANCHES CONNECTED, WALL SWITCHES CLOSED AND FIXTURES PERMANENTLY CONNECTED AND COMPLETE WITH LAMPS. TEST EACH INDIVIDUAL POWER CIRCUIT WITH THE POWER EQUIPMENT CONNECTED FOR PROPER OPERATION.
- 3. PROVIDE DETAILED DOCUMENTATION OF EACH TEST PERFORMED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, WITH THE NAMES AND THE SIGNATURES OF QUALIFIED INDIVIDUALS WHO CONDUCTED AND WITNESSED EACH TEST.

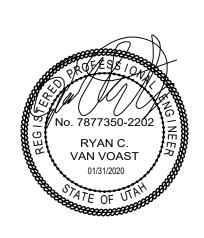


311 Elm Street Suite 600 Cincinnati, OH 45202 513 241 3000



10.24.19

REVISIONS



NELCO ARCHITECTURE. INC.

PROJECT INFORMATION

XpresSpa SLC AIRPORT 776 N TERMINAL DRIVE

SALT LAKE CITY, UT 84122

PROJECT #: 19.0003851.000

ACTUAL SHEET SIZE IS 24"x36"

ELECTRICAL
SPECIFICATIONS

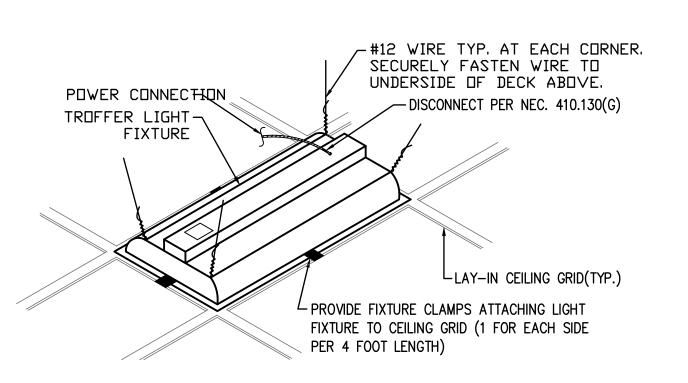
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**REVIEWED BY: KC** 

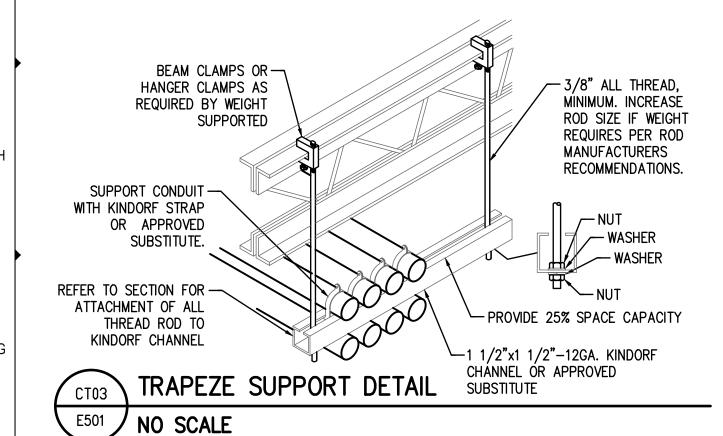
AUTHORIZED FOR: 30% REVIEW SET

E401



RECESSED FIXTURE MOUNTING DIAGRAM

E501 NO SCALE



CLAMPS (AS REQUIRED BY

WEIGHT SUPPORTED)

— RACEWAY. (3/4" − 6") *—* 

OF ANY RACEWAY HANGER SYSTEM.

RACEWAY SUPPORT METHODS DIAGRAM

WIRE SHALL NOT BE USED AS A COMPONENT

DO NOT SUPPORT ANY RACEWAY LARGER THAN

1" FROM BOTTOM CORD OF STEEL TRUSSES.

- STRUCTURE — STRUCTURE  $\infty$ BEAM CLAMPS OR HANGER -CLAMPS (AS REQUIRED BY WEIGHT SUPPORTED) - ALL THREAD (SIZE AS REQUIRED) 3/8" MIN. — RACEWAY. (3/4" − 6 - CONDUIT HANGER — STRUCTURE — STRUCTURE 1. TYP. FOR WOOD AND METAL STUD ROUGH-IN. 2. PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINISHED SURFACE, UNLESS NOTED OTHERWISE.

DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.

SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.

SHALL COMPLY WITH IBC 714.3.2.

7. CADDY FASTENER, THROUGH STUD CABLE/CONDUIT SUPPORT 'FB12P'.

8. ADJUSTABLE BAR HANGER.

9. TYPICAL DEVICE JUNCTION BOX.

4RU FIBER SHELF 2RU HORIZONTAL WIRE MANAGER BLANK PANEL 1RU HORIZONTAL WIRE MANAGER BLANK PANEL TENANT 4(EQUIPMENT BY TENANT) 48 PORT COPPER CROSS CONNECT TO CR BLANK PANEL 2RU HORIZONTAL WIRE MANAGER BLANK PANEL 48 PORT COPPER PATCH PANEL BLANK PANEL 2RU HORIZONTAL WIRE MANAGER BLANK PANEL 24 PORT COPPER PATCH PANEL BLANK PANEL TENANT 5(EQUIPMENT BY TENANT) TENANT 2(EQUIPMENT BY TENANT) 2RU HORIZONTAL WIRE MANAGER **BLANK PANEL** BLANK PANEL BLANK PANEL ☐ TENANT 6(EQUIPMENT BY TENANT)
☐  $\mathbf{H}$  TENANT 3(EQUIPMENT BY TENANT) BLANK PANEL BLANK PANEL

> TELECOM ROOM CBSW-1-047 RACK ELEVATIONS E501 NO SCALE

	DL2	DOWNLIGHT 6" DIA. RECESSED LED DOWNLIGHT. DII LENS. WHITE TRIM.
,∕−EMT	DL3	DOWNLIGHT 3.5" DIA. RECESSED LED DOWNLIGHT W DIM TO WARM OPTION.
ЕМТ	PL1	PENDANT
0000	PL2	PENDANT GAMBIT 7 LIGHT CLEAR CHANDELIER W LED LAMPING. MAX WATTAGE PER BUL 5W.
	WL1	WALL WALL MOUNTED ACCENT FIXTURE WITH AND DOWN LIGHT. BOTH UP AND DOWN LIGHT ARE FLOOD LIGHT.
	WL2	WALL LINEAR LED STRIP LIGHT 24" LENGTH

3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH.

4. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE

5. ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS

6. INSULATED THROAT EMT CONNECTOR.

TYPICAL ROUGH-IN DETAIL

(E501 / NO SCALE

						LAMPS				
YPE	FIXTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTS	QTY	TYPE	MOUNTING	DIMMING	VA	NC
	DOWNLIGHT 4" DIA. RECESSED LED DOWNLIGHT WITH DIM TO WARM OPTION. FLOOD BEAM SPREAD AND MATTE WHITE FLANGE	AMERLUX	HDL-HP-R-NC-A17-MWW-FL-30	120		LED 582 LUMENS 3000K	RECESSED	0-10V	15	
DL2	DOWNLIGHT 6" DIA. RECESSED LED DOWNLIGHT. DIFFUSE LENS. WHITE TRIM.	MAXILUME	HH6-LED-2000L-DIM10-120-WD-30K-85-HH6-6501-CL-WH	120		LED 2,000 LUMENS 3000K	RECESSED	0-10V	27	
	DOWNLIGHT 3.5" DIA. RECESSED LED DOWNLIGHT WITH DIM TO WARM OPTION.	AMERLUX	HORNET-HP-R/SR-NC-FRAME-T-2-120-0-10V	120		LED 822 LUMENS 3000K	RECESSED	0-10V	15	
PL1	PENDANT	TECH LIGHTING	CROSSBLEND LED PENDANT	120	1	LED	PENDANT		14	
PL2	PENDANT GAMBIT 7 LIGHT CLEAR CHANDELIER WITH LED LAMPING. MAX WATTAGE PER BULB IS 5W.	ALW	LP1MR1SD-D4CA-DÉCOR-3000K-0/10V/1%-EXT-F-WH-UNV	120	1 1	LED 1,901 LUMENS 3000K 80CRI	PENDANT	0-10V	57.6	
	WALL WALL MOUNTED ACCENT FIXTURE WITH UP AND DOWN LIGHT. BOTH UP AND DOWN LIGHT ARE FLOOD LIGHT.	SYSTEMALUX	LIFT S.5033W 60 DEG UP / 60 DEG DOWN	120		LED 310 LUMENS 90CRI	SURFACE	0-10V	18.5	
WL2	WALL LINEAR LED STRIP LIGHT 24" LENGTH	ANTERAS LIGHTING	GLX1-21-E830 WITH 3PC12 & JBC1/JBC1S	120		LED 750 LUMENS 3000K	MILLWORK	0-10V	9	
	POLYCARBONATE WHITE EXIT SIGN WITH SELF DIAGNOSTICS AND UNIVERSAL	SURE-LITES LITHONIA MCPHILBEN DUALLITE	ELX6-1-00-95-G (SEE PLANS FOR CHEVRONS)	120		LED GREEN	UNV	NA	5	

Refer to Luminaire description for fixture requirements. Manufactures model numbers may not be specific or complete. The contractor is responsible to provide complete fixtures as described on this schedule with all mounting hardware and equipment for a complete installation.

Refer to the architectural reflected ceiling drawings for exact fixture locations and ceiling types. Verify exact ceiling types and bring to the attention of the architect and electrical engineer any discrepancies prior to bid. Fixtures shall match architectural

Provide all fixture support and seismic bracing to secure fixture to structure, walls and ceiling systems. Refer to mounting details for additional requirements. Provide all pole bases as shown on the details.

Prior approval shall be required for all manufactures who are not listed on this schedule. The prior approvals shall be submitted to the electrical engineer (7) working days prior to the bid. Prior approvals received after this time cut-off shall not be

Submittals for prior approval shall be equivalent to the specified fixtures and reviewed and signed by the principle of the organization that is submitting for approval. Provide complete fixture submittals as listed in the specification. All information that does not apply to the fixture being submitted shall be crossed out. The electrical engineer shall be the final determination if the fixture is equivalent or not.

Fixtures that have been reviewed and approved as equivalent to the specified fixtures shall be listed in and addendum prior to bid. Light fixtures without prior approval are rejected and contractor shall base their bid on the approved listed fixtures. A

verbal approval will not be given or approved by VBFA at any time. Any additional time required to verify if submitted fixture meets all photometric requirements shall be paid by the agency requesting approval. Photometric point-by-point plans may be required from the agency submitting for approval indicating

8 Color temperature for all lamping shall be 4000K unless noted otherwise in the schedule. 9 Verify exact fixture finishes with the architect prior to submittal.

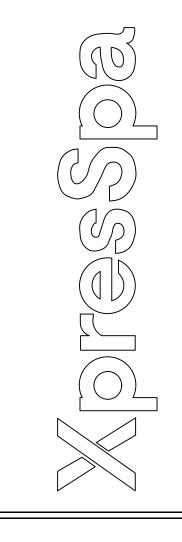
Provide minimum 5 year warranty on all light fixtures.

LED light fixtures shall meet LM79 and LM80 standards with +50,000 hour L70 lamp life

12 Luminaire shall be listed per NEC 410.6.

Lumens specified for fixtures with integral LEDs are total delivered fixture lumens Fixtures identified as emergency on the plans shall be provided with an emergency battery pack or remote inverter with a 1400 lumen output minimum for each emergency fixture. Fluorescent light fixtures shall have programmed start ballasts with less than 10% THD and .78 low ballast factor. Lamps shall be 3100 lumens with 40,000 hour life min.

311 Elm Street Suite 600 Cincinnati, OH 45202 513 241 3000



**ISSUE** INFORMATION 10.24.19

**REVISIONS** 



NELCO ARCHITECTURE, INC.

**PROJECT** INFORMATION SLC AIRPORT 776 N TERMINAL DRIVE

SALT LAKE CITY, UT 84122 19.0003851.000

ACTUAL SHEET SIZE IS 24"x36"

**SHEET** INFORMATION

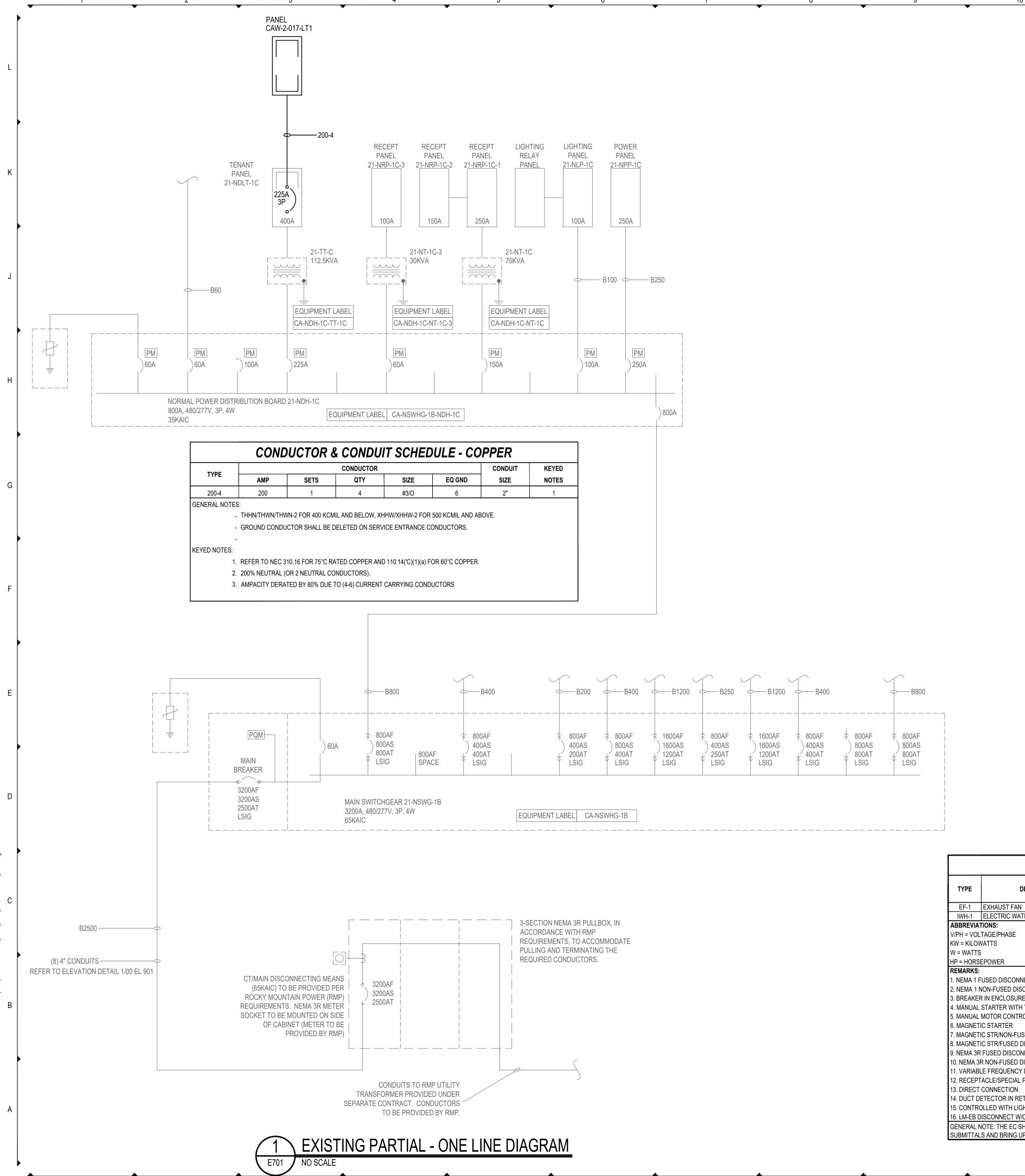
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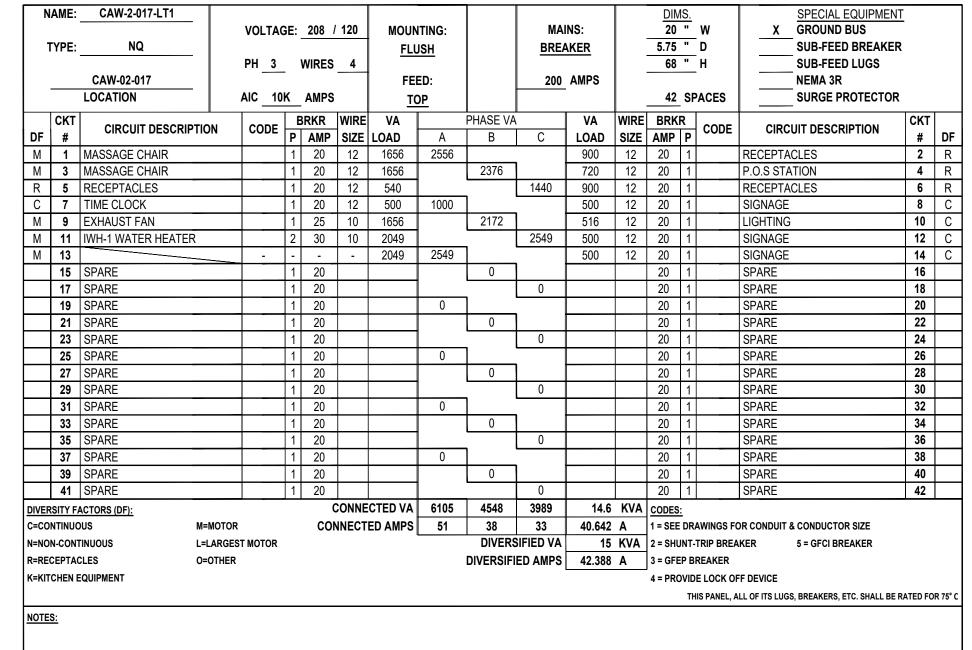
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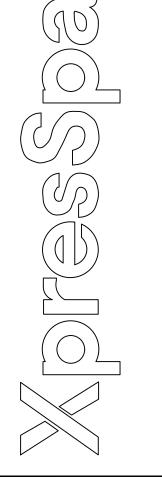




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		CASW-1-138 LOCATION	AIC .	101/	AMDO		FEI			400	AMPS		40	CDA	CEC	NEMA 3R SURGE PROTECTO	D	
		LOCATION	AIC		_		BOT	TOM_						SPA	CES	SURGE PROTECTO		
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														IHIS	PANEL, AL	LL OF ITS LUGS, BREAKERS, ETC. SHALL B	EKATED	,

				EG	QUIPME	ENT S	CHED	ULE							
					ELECTR	ICAL				OV	ER CURRE	NT PROTECT	TION STR		
TYPE	DESCRIPTION	V/PH	LOAD	FLA	SETS	W QTY	IRE SIZE	GND	COND	OCPD/ MOCP	OCPD/ TYPE DISC FUSE NEMA				
EF-1	EXHAUST FAN	120/1	3/4 HP	13.8	1	2	12	10	3/4"	25	C1	SIZE/PL	SIZE	SIZE	4A
IWH-1   ELECTRIC WATER HEATER   208/1   4,1 KW   19.7   1   2   12   10   3/4"   30   C1   30/2   25   - 1A															
ABBREVIA		200/1	7.1100	10.7	'		12	10	O/ I	- 00	<u> </u>	00/2			1/1
	LTAGE/PHASE	KVA = KILC	VOLT AMPERE	S		GND = GR	OUND				COND = C	ONDUIT			
KW = KILO		VA = VOLT	AMPERES			DISC = DIS					OCPD = O	VERCURREN	NT PROTEC	TIVE DEVIC	Œ
W = WATT	S	MCA = MIN	IMUM CIRCUIT	AMPACITY		STR = STA	RTER				PL = POLE	_			
HP = HORS	SEPOWER	FLA = FULL	LOAD AMPERE	S		MOCP = M	AXIMUM OC	PD (LISTED	BY THE MA	NUFACTUR	RER)				
REMARKS	:				REMARKS			`			,				
1. NEMA 1 FUSED DISCONNECT SWITCH A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26.															
2. NEMA 1	NON-FUSED DISCONNECT SWITCH				B. FURNIS	HED AND IN	ISTALLED U	NDER ANO	THER DIVISI	ON REQUIR	RING CONNE	ECTION UND	ER DIV 26.		
3. BREAKE	R IN ENCLOSURE				C. FURNIS	HED UNDER	R ANOTHER	DIVISION B	BUT INSTALL	ED AND CO	NNECTED I	UNDER DIV 2	26.		
4. MANUAL	STARTER WITH THERMAL OVERLOAD				D. FURNIS	HED, INSTA	LLED AND C	CONNECTE	D UNDER AN	NOTHER DIV	ISION.				
5. MANUAL	. MOTOR CONTROLLER W/OUT THERMAL	OVERLOAD			E. FURNIS	HED AND IN	ISTALLED U	NDER DIV 2	26 REQUIRIN	IG CONNEC	TION UNDE	R ANOTHER	DIVISION.		
6. MAGNE	FIC STARTER														
	TIC STR/NON-FUSED DISCONNECT COMB				OCPD TYP										
	FIC STR/FUSED DISCONNECT COMBINATI	ON			C1 = THER	MAL MAGN	ETIC CIRCU	IT BREAKEI	R		F1 = INDU	CTIVE FUSE	(CLASS RK	(5)	
	R FUSED DISCONNECT SWITCH				C2 = MAGN	NETIC ONLY	CIRCUIT BI	REAKER			F2 = NON-	INDUCTIVE F	FUSE (CLAS	SS RK1)	
10. NEMA 3	BR NON-FUSED DISCONNECT SWITCH														
	SLE FREQUENCY DRIVE				NOTES:										
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC THE DIVISION 26 CONTRACTOR MAY INCREASE THE CONDUIT SIZE BY ONE INCREMENTAL															
13. DIRECT CONNECTION SIZE TO FACILITATE INSTALLATION OR TO HELP WITH MATERIAL AVAILABILITY/COST.															
14. DUCT DETECTOR IN RETURN AIR DUCT															
15. CONTROLLED WITH LIGHTS															
	DISCONNECT W/CNTRL WIRING TO VFD														
	NOTE: THE EC SHALL COORDINATE ALL I								MECHANICA	L SHOP DR	AWINGS/				
SUBMITTA	LS AND BRING UP ANY DISCREPANCIES V	NITH THE ELE	CTRICAL ENGIN	IEER OF R	ECORD IN W	RITING PRIC	or to roug	SH-IN.							





ISSUE INFORMATION

10.24.19 REVISIONS

No. 7877350-2202

RYAN C.
VAN VOAST

NELCO ARCHITECTURE, INC.

PROJECT INFORMATION

XpresSpa SLC AIRPORT 776 N TERMINAL DRIVE

CBW-2-007 SALT LAKE CITY, UT 84122 PROJECT #: 19.0003851.000

ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

ONE LINE DIAGRAM

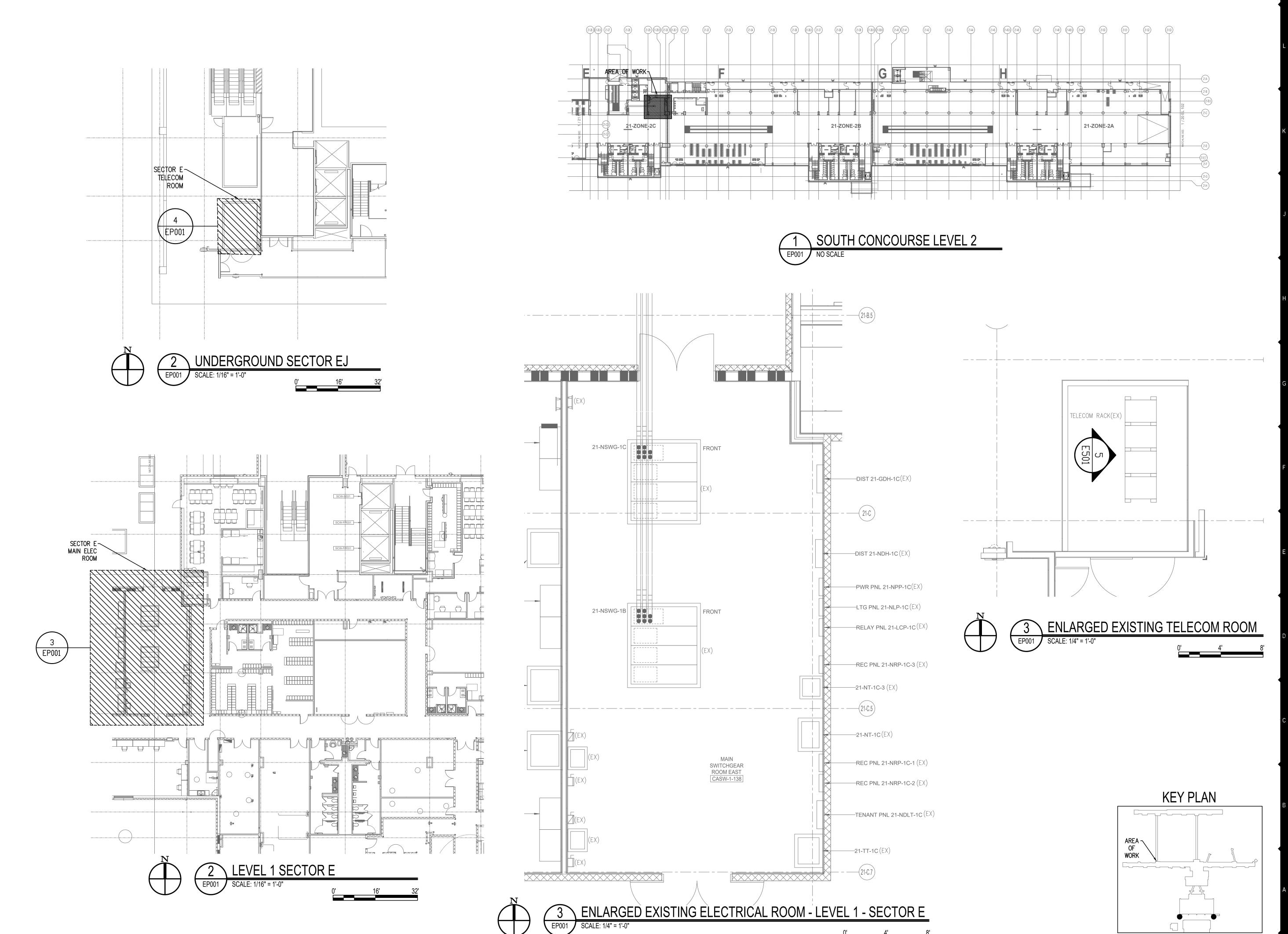
DRAWN BY: AC

REVIEWED BY: KC

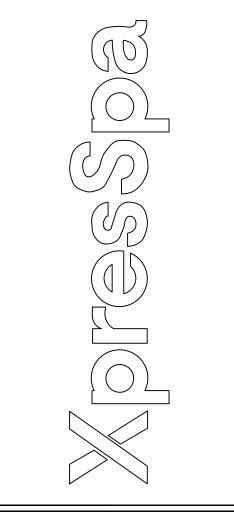
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**AUTHORIZED FOR:** 30% REVIEW SET

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10.24.19
REVISIONS

Mo. 7877350-2202

RYAN C.
VAN VOAST
01/31/2020

STATE OF UTATE

NELCO ARCHITECTURE, INC.

PROJECT INFORMATION

XpresSpa SLC AIRPORT 776 N TERMINAL DRIVE

CBW-2-007 SALT LAKE CITY, UT 84122 **PROJECT #:** 19.0003851.000

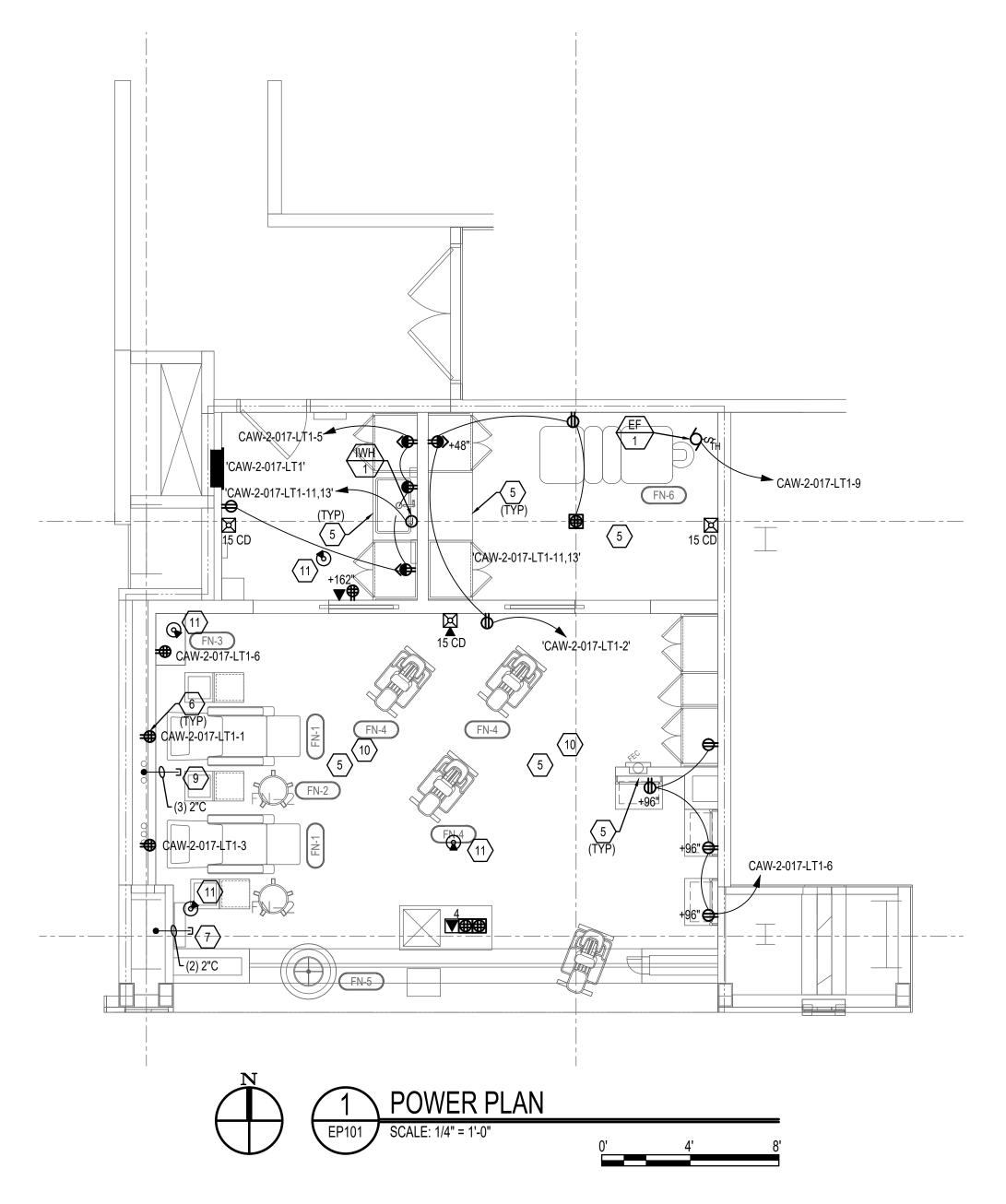
ACTUAL SHEET SIZE IS 24"x36"

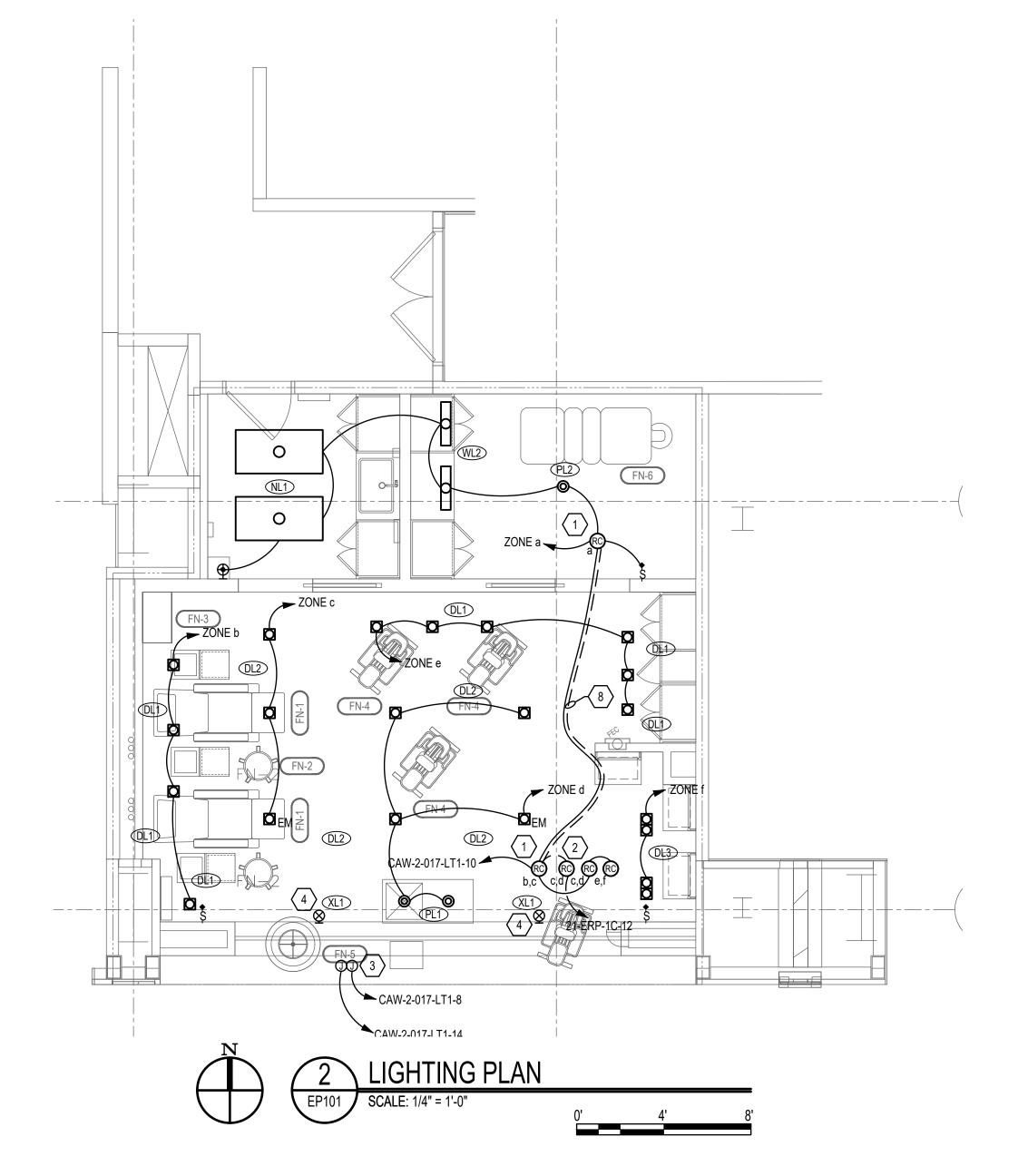
SHEET INFORMATION

ENLARGED
ELECTRICAL PLANS

DRAWN BY: AC
REVIEWED BY: KC

AUTHORIZED FOR: 30% REVIEW SET



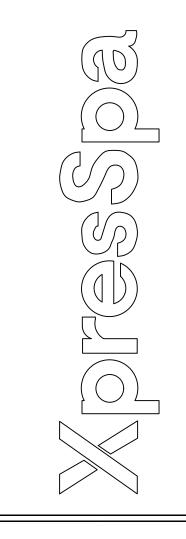


# **#** KEYED NOTES

- 1. PROVIDE AND INSTALL ROOM CONTROLLER TO CONTROL LIGHTING IN THIS SPACE. ROOM CONTROLLER SHALL BE HUBBEL CONTROL SOLUTIONS NXRC OR APPROVED EQUAL. PROVIDE A SINGLE OR TWO RELAY CONTROLLER AS SHOWN ON PLANS. EC SHALL PROVIDE AN NXBTC MODULE TO ALLOW AUTOMATIC ON/OFF CONTROL ON A TIME ON/OFF BASIS. ONLY ONE NXBTC MODULE IS REQUIRED FOR UP TO 6 CONTROLLERS.
- 2. FOR ROOMS THAT CONTAIN EMERGENCY LIGHTING CIRCUITS EC SHALL PROVIDE A SEPARATE UL924 ROOM CONTROLLER TO AUTOMATICALLY SENSE LOSS OF NORMAL POWER AND SWITCH LIGHTING ON.
- 3. DEDICATED CIRCUIT FOR OUTDOOR SINAGE. EC SHALL COORDINATE EXACT HEIGHT OF J-BOX AND EXACT POWER REQUIREMENTS OF SIGNAGE WITH MANUFACTURER PRIOR TO ROUGH IN.
- PROVIDE AND INSTALL AN EXIT SIGN AS SCHEDULED. TIE INTO THE NEAREST EM LIGHTING CIRCUIT.
- COORDINATE ALL DEVICE HEIGHTS WITH MILLWORK PRIOR TO ROUGH IN. REFER TO MILLWORK SHOP DRAWINGS.
- COORDINATE LOCATION OF THESE DEVICES WITH ARCHITECT AND OWNER PROVIDED EQUIPMENT LAYOUT.
- 7. EXISTING CONDUIT FOR FEEDERS TO NEW ELECTRICAL PANEL. EC SHALL EXTEND CONDUIT AS REQUIRED ABOVE CEILING.
- PROVIDE ALL REQUIRED CAT5e CABLING TO TIE ROOM CONTROLLERS TOGETHER. PROVIDE REQUIRED PROGRAMMING AND TRAINING TO OWNER.
- 9. DATA PORT FOR TIME CLOCK.
- 10. CONTRACTOR TO SUB-CONTRACT VENDOR FOR SPEAKER SYSTEM DESIGN. EC SHALL PROVIDE J-BOX IN CEILING AND RUN (1)3/4"C TO HEADEND LOCATION. COORDINATE WITH SYSTEM DESIGNER FOR EXACT LOCATION OF HEADEND. CAT6 CABLING BY VENDOR.
- 11. CONTRACTOR TO SUB-CONTRACT VENDOR FOR SECURITY CAMERA SYSTEM DESIGN. EC SHALL PROVIDE J-BOX IN CEILING AND RUN (1)3/4"C TO HEADEND LOCATION. COORDINATE WITH SYSTEM DESIGNER FOR EXACT LOCATION OF HEADEND. CAT6 CABLING BY VENDOR.



311 Elm Street Suite 600 Cincinnati, OH 45202 513 241 3000



**ISSUE** INFORMATION

10.24.19

REVISIONS

Mo. 7877350-2202

RYAN C.
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01/31/2020

NELCO ARCHITECTURE, INC.

PROJECT INFORMATION

XpresSpa SLC AIRPORT 776 N TERMINAL DRIVE

SALT LAKE CITY, UT 84122

PROJECT #:
19.0003851.000

ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

**ELECTRICAL PLANS** 

DRAWN BY: AC

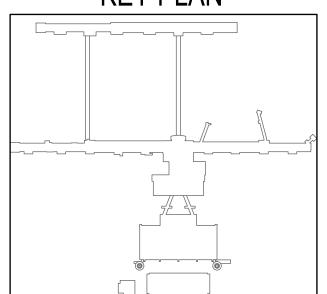
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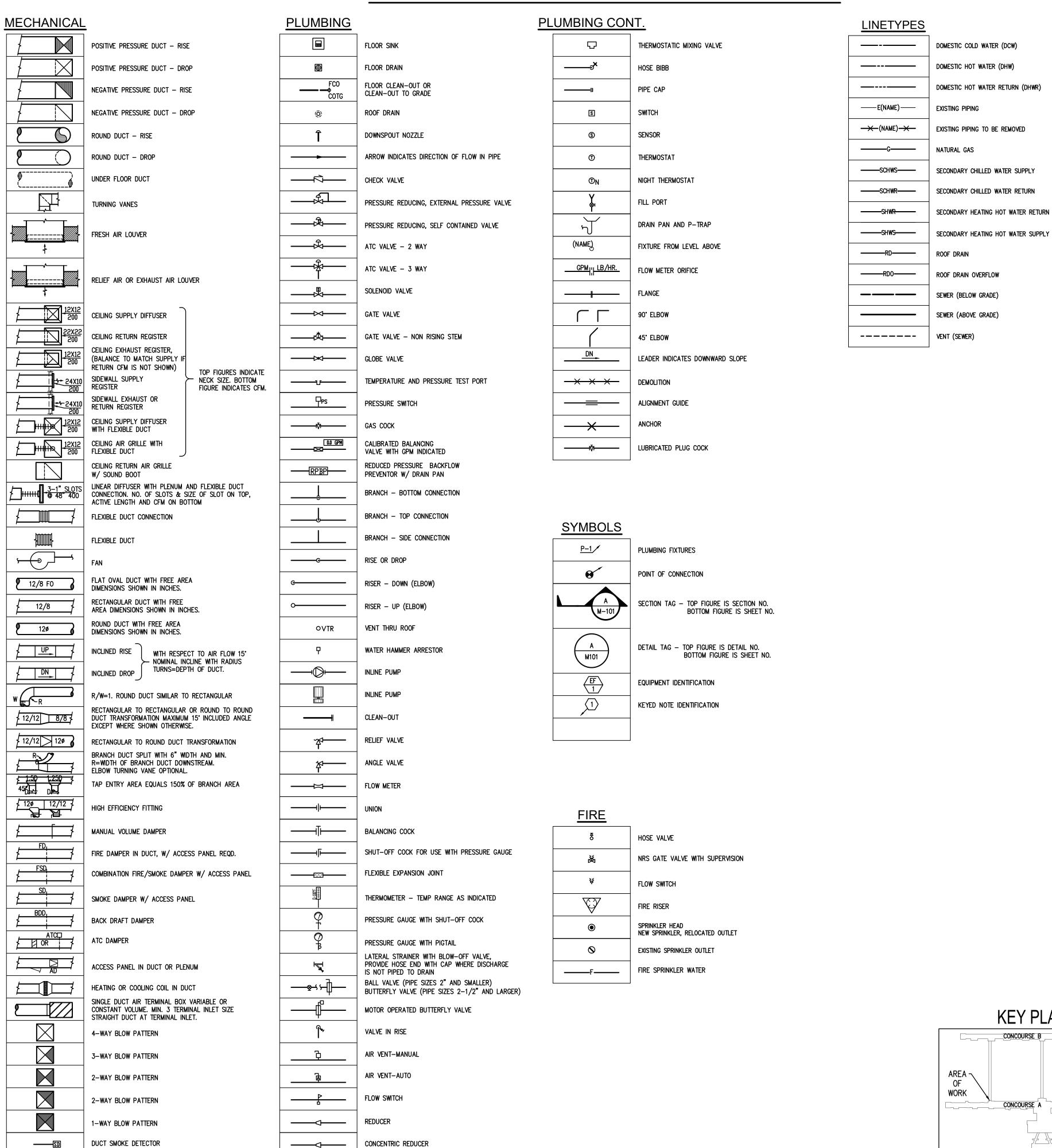
JALE:

**AUTHORIZED FOR:** 30% REVIEW SET

**EP101** 

**KEY PLAN** 



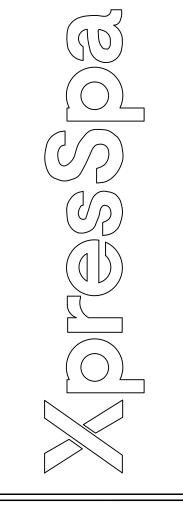


ECCENTRIC REDUCER

UNIT HEATER



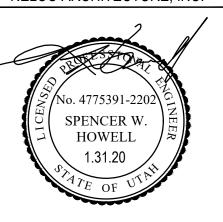
Cincinnati, OH 45202 513 241 3000



<b>ISSUE</b> INFORMATION	
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REVISIONS	



NELCO ARCHITECTURE, INC.



**PROJECT INFORMATION** 

**XpresSpa** SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 SALT LAKE CITY, UT 84122 PROJECT #: 19.0003852

ACTUAL SHEET SIZE IS 24"x36" **SHEET** INFORMATION

**KEY PLAN** 

CONCOURSE B

CONCOURSE A

MECHANICAL SYMBOL

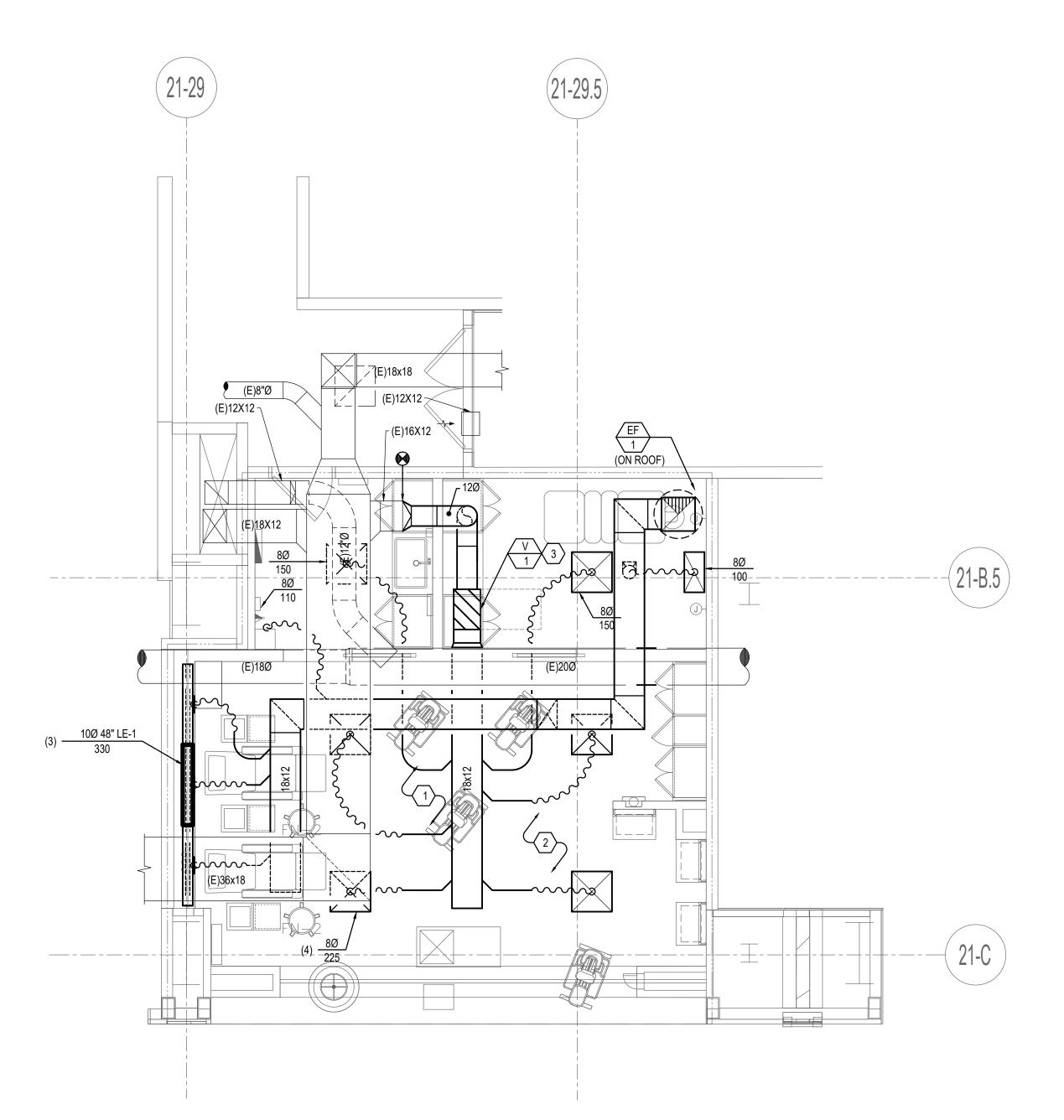
DRAWN BY: **REVIEWED BY:** 

**AUTHORIZED FOR:** 100% Submittal

**M000** 

# **#** KEYED NOTES

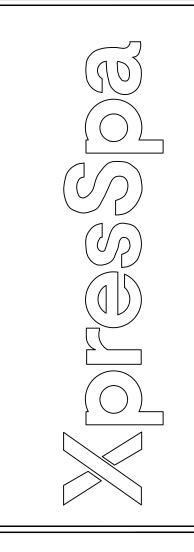
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCT SIZES, PIPE SIZES, LOCATIONS AND CONDITIONS PRIOR TO BEGINNING ANY WORK. IF ANY DISCREPANCIES, ERRORS, CONFLICTS OR CONCERNS ARE UNCOVERED BY THE CONTRACTORS THEY SHALL BRING THEM TO THE OWNER / ENGINEER'S ATTENTION PRIOR TO ANY WORK PROGRESSING FOR RESOLUTION.
- 2. INSTALL DUCTWORK AND PIPING AS SHOWN, TYPICAL.
  CONTRACTOR SHALL COORDINATE WITH PIPING, LIGHTS,
  SPRINKLERS, CEILING, CABLE TRAY AND STRUCTURE PRIOR TO
  ORDERING, FABRICATING PURCHASING OR INSTALLING ANY
  WORK. IF ANY DISCREPANCIES, ERRORS, CONFLICTS OR
  CONCERNS ARE UNCOVERED BY THE CONTRACTORS THEY
  SHALL BRING THEM TO THE OWNER/ENGINEER'S ATTENTION
  PRIOR TO ANY WORK PROGRESSING FOR RESOLUTION.
  3. MAINTAIN ACCESS CLEARANCE TO BOX. (TYPICAL)







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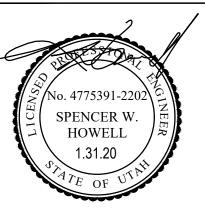
ISSUE INFORMATION

01.31.2020 REVISIONS

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181 East 5600 South Murray, Utah 84107 O: (801) 530-3148 F: (801) 530-3150 www.vbfa.com vbfa project #: 19596

NELCO ARCHITECTURE, INC.



**PROJECT** INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 SALT LAKE CITY, UT 84122 **PROJECT #:** 19.0003852

ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

MECHANICAL PLAN

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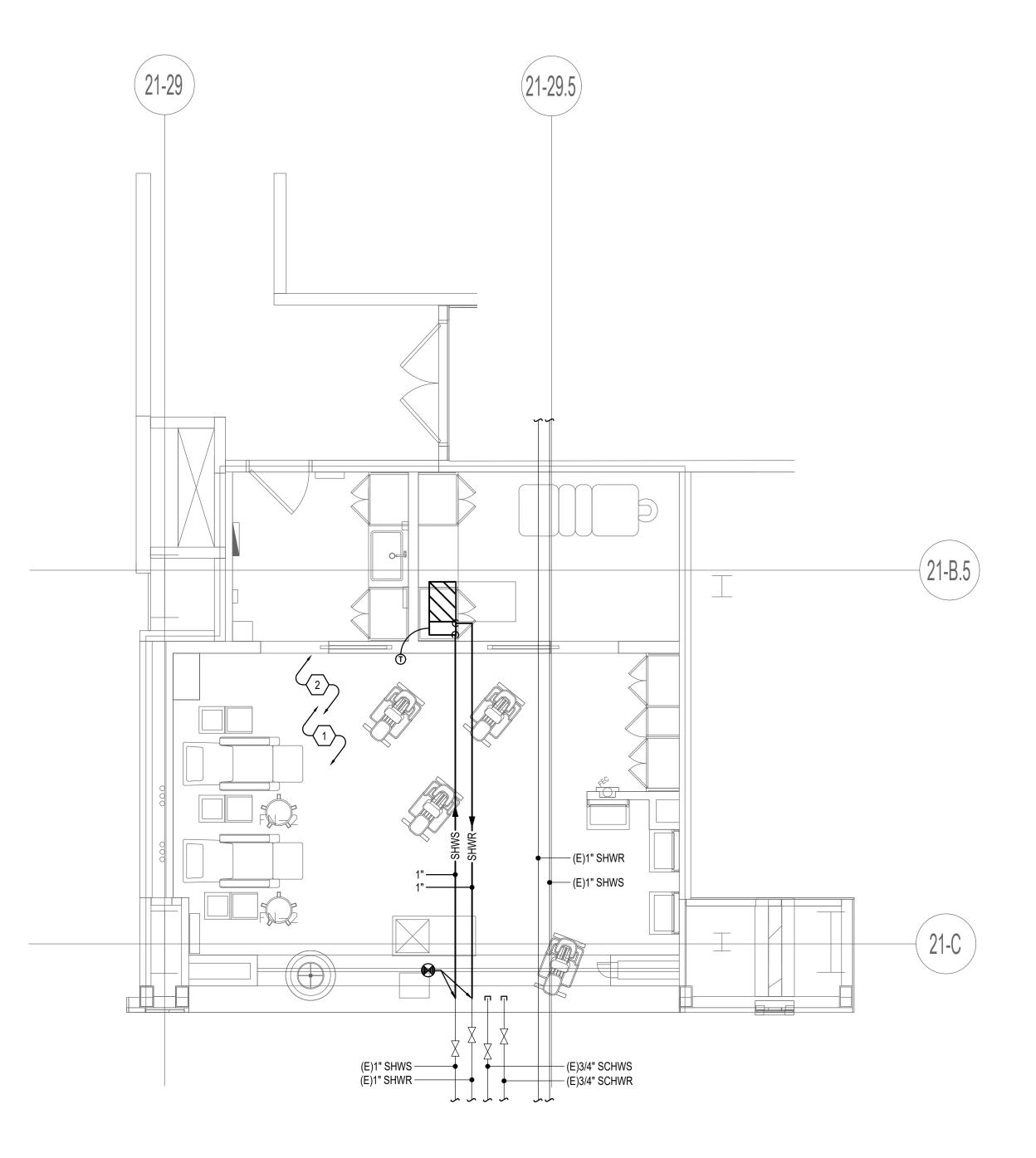
SCALE: As Noted AUTHORIZED FOR: 100% Submittal

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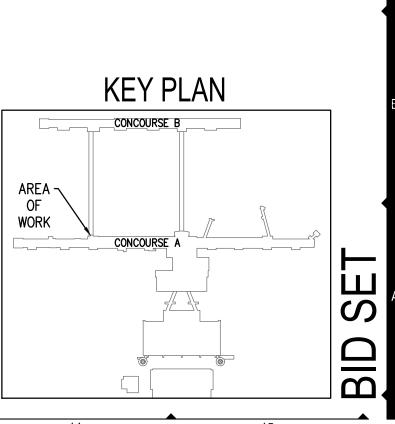
AREA OF WORK

# # KEYED NOTES

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCT SIZES, PIPE SIZES, LOCATIONS AND CONDITIONS PRIOR TO BEGINNING ANY WORK. IF ANY DISCREPANCIES, ERRORS, CONFLICTS OR CONCERNS ARE UNCOVERED BY THE CONTRACTORS THEY SHALL BRING THEM TO THE OWNER / ENGINEER'S ATTENTION PRIOR TO ANY WORK PROGRESSING FOR RESOLUTION.
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  CONTRACTOR SHALL COORDINATE WITH PIPING, LIGHTS,
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  CONCERNS ARE UNCOVERED BY THE CONTRACTORS THEY
  SHALL BRING THEM TO THE OWNER/ENGINEER'S ATTENTION
  PRIOR TO ANY WORK PROGRESSING FOR RESOLUTION.

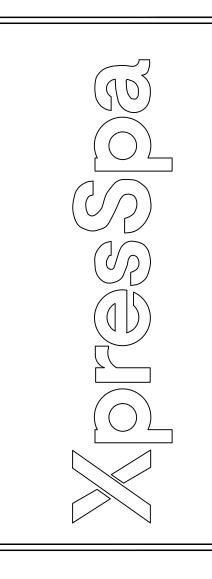






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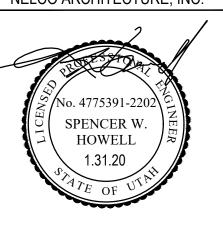
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NELCO ARCHITECTURE, INC.



PROJECT INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 SALT LAKE CITY, UT 84122 **PROJECT #:** 19.0003852

ACTUAL SHEET SIZE IS 24"x36"

SHEET INFORMATION

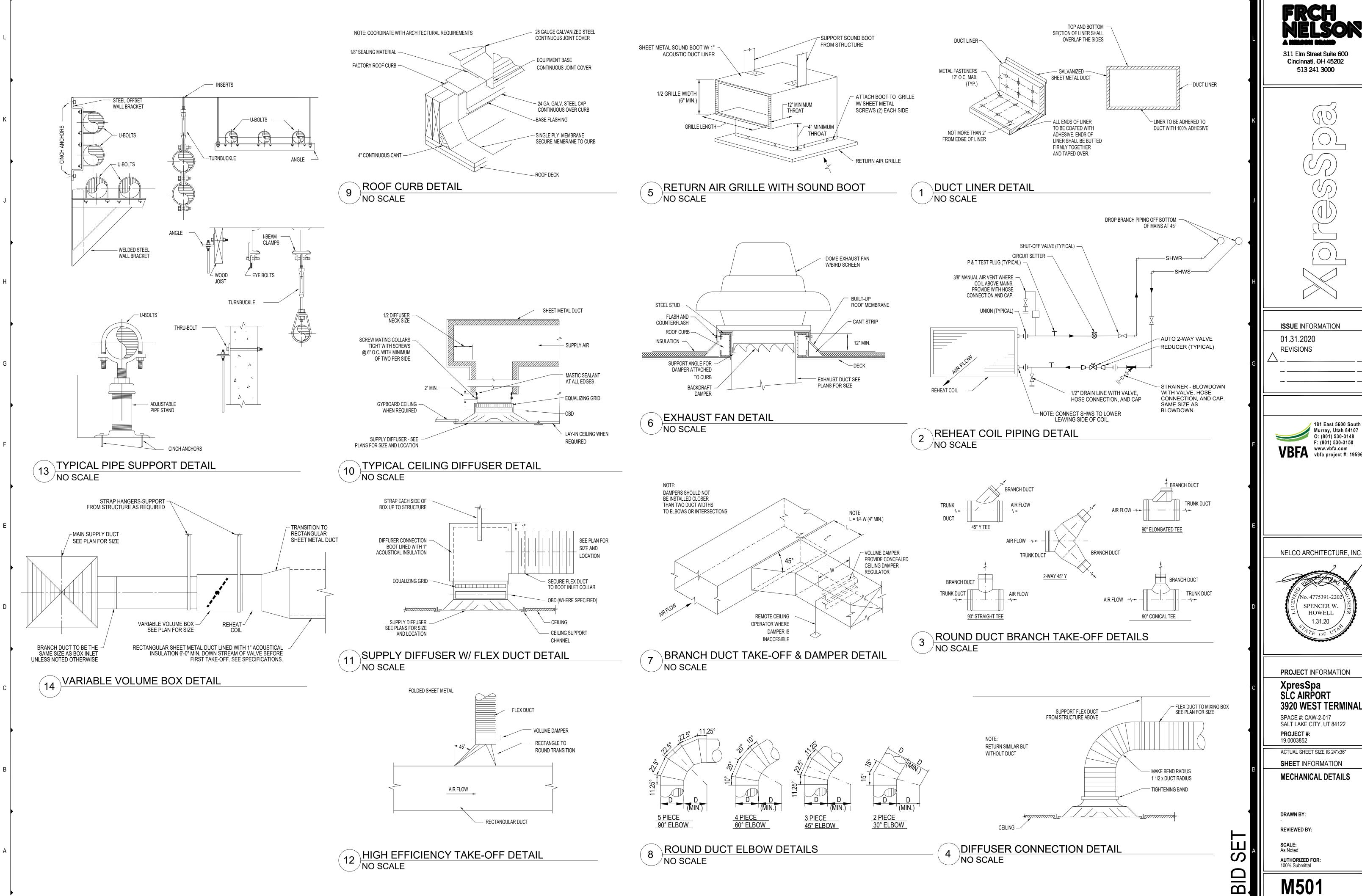
MECHANICAL PIPING PLAN

DRAWN BY:

SCALE: As Noted

AUTHORIZED FOR: 100% Submittal

MP111



311 Elm Street Suite 600 Cincinnati, OH 45202

181 East 5600 South Murray, Utah 84107 O: (801) 530-3148 F: (801) 530-3150 VBFA www.vbfa.com vbfa project #: 19596

**PROJECT INFORMATION** 

3920 WEST TERMINAL DR. SALT LAKE CITY, UT 84122

ACTUAL SHEET SIZE IS 24"x36"

**SHEET** INFORMATION

MECHANICAL DETAILS

M501

																	VAV	<b>BOX SCH</b>	HEDULE
				AIR							FLUID (2)					COIL			
				COOLING	HEATING		ENTERING	LEAVING	S.P. LOSS	NC AT		TOTAL	ENT.		MAX. FLUID			BALANCING	1
			INLET	MAXIMUM	MAXIMUM	MINIMUM	AIR TEMP.	AIR TEMP.	AT MAX	1" H2O	HEAT	FLUID	FLUID		PRESSURE	MIN.	PIPE	VALVE	1
			SIZE	AIR (5)	AIR	AIR (3)	DB	DB	CFM (4)	(1)	LOAD	FLOW	TEMP	WORKING	DROP	COIL	SIZE	SIZE	1
ID	MANUFACTURER	MODEL NUMBER	(IN)	(CFM)	(CFM)	(CFM)	(°F)	(°F)	(IN H20)	S.P.	(MB)	(GPM)	(°F)	FLUID	(FT)	ROWS	(IN)	(IN)	NOTES
V-1	TITUS	DESV	12	1200	960	325	55	95	0.65	26	35.3	3	160	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6

1. MAXIMUM DISCHARGE NC AT BOX DIFFENTIAL PRESSURE BASED ON ARI STANDARD 880-89

- 2. COIL HEATING CAPACITY BASED ON HEATING MAIXIMUM AIR FLOW (60% OF MAXIMUM COOLING CFM).
- 3. MINIMUM CFM IS LOWEST CONTROLLABLE CFM SETTING (BASED ON 400 FPM INLET VELOCITY).
- 4. MAXIMUM STATIC PRSSURE DROP PERMISSABLE ACROSS BOX AND COIL AT MAXIMUM COOLING CFM.
- 5. BOX COOLING MAXIMUM IS THE SUM OF DIFFUSERS CFM VALUES AS SHOWN IN THE DRAWINGS. BOX MINIMUM CFM TO BE SET AT 30% OF THIS MAXIMUM.
- BOX HEATING CFM TO BE SET AT 60% OF THIS SAME MAXIMUM. TYPICAL UNLESS OTHERWISE NOTED.
- 6. PRESSURE INDEPENDENT TYPE BOX.

			NAAN/	GRILLES, REGISTERS AND DIFFUS
			MAX	
ID	MANUFACTURER	MODEL	NC	DESCRIPTION
				SQUARE PLAQUE FACE CEILING DIFFUSERS. REMOVABLE FACE,
				C.W./O.B.D. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING
CD-1	EH PRICE	SPD	30	AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE
				24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING
				TILE SPACE AVAILABLE.
				2 x 1-1/2" SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND FLOW CONTROL VANES FOR ONE
				OR TWO WAY THROW PATTERN UNITS SHELL HAVE 1" SLOTS AND INSULATED PLENUM WITH ROUND DUCT
LE-1	EH PRICE	TBD4	30	CONNECTION. FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED.
				CRATE TYPE CEILING EXHAUST AIR UNIT, WITH OBD. REMOVABLE FACE
				AND CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS
EG-1	EH PRICE	PDDR	30	REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12"
				OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. UNITS
				SHALL HAVE 1/2" x 1/2" x 1/2" SQUARES.

NOTE: UNLESS NOTED OTHERWISE CD-1 TYPICAL SQUARE DIFFUSER; RG-1 TYPICAL RETURN AIR GRILLE; EG-1 TYPICAL EXHAUST GRILLE

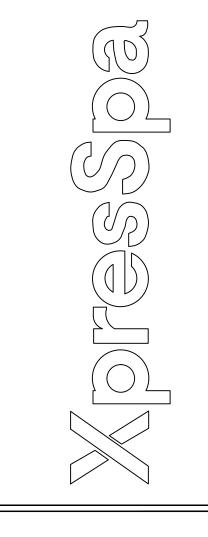
									FA	N SCHE	DULE
				AIR		ELECTRICA	L	PHYSICAL			
				MAXIMUM				OVERALL	CURB		
				AIRFLOW	STATIC	MOTOR		DIAM/	WIDTH/		
			AIR	RATE	PRESSURE	SIZE		HEIGHT	HEIGHT	WEIGHT	
ID	MANUFACTURER	MODEL NUMBER	TYPE	(CFM)	(IN. WATER)	(HP)	VOLT/PH	(IN)	(IN)	(LBS)	NOTES
EF-1	COOK	135C11D	EXHAUST	1,200	0.5	0.5	120/1	30 / 40	20 / 20 / 14	100	1,2

1. ROOF MOUNTED DIRECT DRIVE EXHAUST FAN COMPLETE WITH ALUMINUM BIRDSCREEN, MOTORIZED BACKDRAFT DAMPER, FACTORY PRE-FABRICATED CURB, FACTORY HINGED SUB BASE, FACTORY PRE-WIRED DISCONNECT, AND FAN SPEED CONTROL.

2. CONTROL: RUNS CONTINUOUSLY DURING NORMALLY OPEN HOURS.



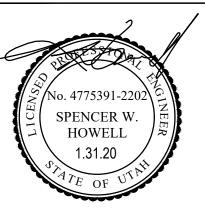
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	01.31.2020 REVISIONS	
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NELCO ARCHITECTURE, INC.



**PROJECT** INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

SPACE #: CAW-2-017 SALT LAKE CITY, UT 84122 **PROJECT #:** 19.0003852

ACTUAL SHEET SIZE IS 24"x36" **SHEET** INFORMATION

MECHANICAL SCHEDULES

**AUTHORIZED FOR:** 100% Submittal

M601

BID

# 1.01 DESCRIPTION

- WORK INCLUDED: FURNISH ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND NECESSARY INCIDENTALS FOR THE COMPLETE INSTALLATION OF ALL HEATING, VENTILATION AND AIR CONDITIONING AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- B. RELATED WORK INCLUDED IN THIS SECTION:
  - FURNISHING ELECTRICAL DEVICES NECESSARY FOR MECHANICAL WORK, EXCEPT DISCONNECTS UNLESS INDICATED OTHERWISE.
  - LINE AND LOW VOLTAGE WIRING FOR MECHANICAL CONTROLS INCLUDING FINAL
  - CONDUIT FOR LINE AND LOW VOLTAGE WIRING FOR MECHANICAL CONTROLS AS INDICATED ON WIRING DIAGRAMS.
  - RESPONSIBILITY FOR OBTAINING CLARIFICATION OF DISCREPANCIES BETWEEN MECHANICAL AND ELECTRICAL WORK FROM ARCHITECT PRIOR TO PROCEEDING WITH THE
  - RESPONSIBILITY FOR PROPER OPERATION OF AUTOMATIC ELECTRICAL CONTROLS AND EQUIPMENT, AND OF ELECTRIC POWER DRIVEN EQUIPMENT FURNISHED UNDER THIS
- C. RELATED WORK IN OTHER SECTIONS:
- 1. ELECTRICAL WORK AS FOLLOWS WILL BE PROVIDED UNDER ELECTRICAL DIVISION:
- CONDUIT FOR LINE VOLTAGE WIRING FOR EQUIPMENT AND DEVICES AS INDICATED OF SPECIFIED EXCEPT CONDUIT FOR LINE AND LOW VOLTAGE WIRING FOR MECHANICAL CONTROLS AS SPECIFIED UNDER DIVISION 15.
- LINE VOLTAGE WIRING FOR EQUIPMENT AND DEVICES AS INDICATED OR SPECIFIED HEREIN EXCEPT LINE AND LOW VOLTAGE WIRING FOR MECHANICAL CONTROLS AS SPECIFIED UNDER
- PROVIDING DISCONNECT SWITCHES.
- INSTALLING ELECTRICAL DEVICES SUCH AS STARTERS AND DISCONNECTS, AND, WHEN INDICATED, FURNISHING ALL SUCH DEVICES.
- H. CODES AND STANDARDS:
- IN ADDITION TO THE REQUIREMENTS OF ALL GOVERNING CODES, ORDINANCES AND AGENCIES, CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CURRENT CODES AND
- INTERNATIONAL MECHANICAL CODE. INTERNATIONAL BUILDING CODE.
- INTERNATIONAL PLUMBING CODE INTERNATIONAL ENERGY CONSERVATION CODE.
- INTERNATIONAL FUEL AND GAS CODE. ASHRAE 90.1-2016.

### 1.02 PRODUCT HANDLING

- PROTECTION: TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING AND AFTER INSTALLATION.
- REPLACEMENTS: IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ENGINEER, AT NO ADDITIONAL COST TO THE

# 1.03 JOB CONDITIONS

EXAMINATION OF SITE: EXAMINE THE SITE AND INCLUDE IN BID PROPOSAL ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED.

#### 1.04 MISCELLANEOUS

- PERMIT AND FEES: ARRANGE, APPLY AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS, EXAMINATIONS AND FEES OR CHARGES REQUIRED BY PUBLIC AUTHORITIES HAVING
- LOCATIONS AND ACCESSIBILITY: CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF WORK UNDER THIS SECTION. VALVES, MOTORS, CONTROLS AND OTHER DEVICES REQUIRING SERVICE, MAINTENANCE AND ADJUSTMENT SHALL BE PLACED IN FULLY ACCESSIBLE POSITIONS AND LOCATIONS. PROVIDE ACCESS DOORS WHERE REQUIRED IN DUCTWORK AND/OR CONSTRUCTION WHETHER SPECIALLY DETAILED OR NOT, AND RENDER ALL SUCH DEVICES ACCESSIBLE.
- SCAFFOLDING: FURNISH ALL SCAFFOLDING, RIGGING AND HOISTING AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK.
- DRAWINGS: DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF DUCTWORK, EQUIPMENT, AND OTHER ITEMS, AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. ALL OFFSETS AND INTERFERENCES MAY NOT BE SHOWN BECAUSE OF THE SCALE OF DRAWINGS. ASSUME THE RESPONSIBILITY FOR COORDINATING THE WORK WITH ALL OTHER TRADES. WORK SPECIFIED AND NOT CLEARLY DEFINED BY THE DRAWINGS SHALL BE INSTALLED AND APPLANCED IN A MANNER SATISFACTORY TO THE ENCENTER. INSTALLED AND ARRANGED IN A MANNER SATISFACTORY TO THE ENGINEER. IN THE EVENT CHANGES IN INDICATED LOCATIONS AND ARRANGEMENTS ARE DEEMED NECESSARY BY
- ALL HVAC EQUIPMENT SHALL BE LABELED. INFORMATION ON LABELS SHALL INCLUDE; IDENTIFICATION NUMBER AND NAME SAME AS THE DRAWINGS, FLOW AND STATIC PRESSURE AND THE AREA TO WHICH THE UNIT SERVES. LABELS SHALL BE BLACK FACED FORMICA WITH WHITE ENGRAVED LETTERING AT LEAST 3/16 INCH HIGH.

# 1.05 SUBMITTALS

- SHOP DRAWINGS: WITHIN 15 BUSINESS DAYS AFTER AWARD OF CONTRACT, AND BEFORE ANY OF THE MATERIALS OF THIS SECTION ARE FABRICATED AND DELIVERED TO THE JOBSITE, SUBMIT COMPLETE SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR ENGINEER TO REVIEW N ACCORDANCE WITH THESE SPECIFICATIONS. SHOW ALL DETAILS OF ALL DUCTWORK, AND
- PRODUCT DATA:
- SUBMIT AN ELECTRONIC COPIES OF ALL MANUFACTURER'S PRODUCT DATA SIMULTANEOUSLY WITH ALL SHOP DRAWING SUBMITTALS
- PRODUCT DATA TO INCLUDE ALL AIR CONDITIONING EQUIPMENT, HANGERS, FANS AND OTHER STANDARD ITEMS AS REQUIRED TO COMPLEMENT SHOP DRAWINGS FOR A SUBMITTAL INDICATING PRODUCTS TO BE USED ON THIS WORK.
- MANUFACTURERS AND SUPPLIERS OF EQUIPMENT SHALL PROVIDE ALL DATA NECESSARY FOR COMPLIANCE WITH THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS. COMPLIANCE CERTIFICATION FOR ALL EQUIPMENT SHALL BE INCLUDED IN EQUIPMENT
- RECORD DRAWINGS: MAINTAIN THROUGHOUT THE PROGRESS OF THE WORK PROJECT RECORD DRAWINGS AND SUBMIT TO THE OWNER.
- OPERATING MANUALS AND MAINTENANCE MANUALS:
  - SUBMIT AN ELECTRONIC COPIES OF ALL OPERATING INSTRUCTIONS AND MAINTENANCE
  - FULLY INSTRUCT OWNER'S OPERATING PERSONNEL AND DEMONSTRATE PERFORMANCE, OPERATION AND MAINTENANCE OF EQUIPMENT. AMOUNT OF TIME ALLOCATED FOR SAID INSTRUCTION AND DEMONSTRATION OF EQUIPMENT AND SYSTEMS SHALL BE PART OF THESE OBLIGATIONS. SUBMIT TO ENGINEER A LETTER SIGNED BY OWNER'S REPRESENTATIVE WHO WILL OPERATE SYSTEM STATING THAT HE HAS BEEN FULLY INSTRUCTED BY CONTRACTOR APOUT OPERATION AND MAINTENANCE OF EQUIPMENT INSTRUCTED BY CONTRACTOR ABOUT OPERATION AND MAINTENANCE OF EQUIPMENT
  - SUBMIT ONE (1) ADDITIONAL SET OF APPROVED INSTRUCTIONS AND ONE (1) ADDITIONAL SET OF APPROVED CONTROL DIAGRAMS.
- GUARANTEES: IN ADDITION TO EQUIPMENT WARRANTIES, FURNISH A WRITTEN GUARANTEE AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR. GUARANTEE SHALL INCLUDE REPAIR OF DAMAGE TO, OR REPLACEMENT OF, ANY PART OF EQUIPMENT OR PREMISES CAUSED BY LEAKS OR BREAKS IN PIPE OR EQUIPMENT PROVIDED UNDER THIS

# 1.06 EQUIPMENT IDENTIFICATION

- EXCEPT FOR INDIVIDUAL ROOM HEATING UNITS AND ITEMS FURNISHED UNDER TEMPERATURE CONTROL, ALL ITEMS SHALL BE LABELED.
- B. INFORMATION ON LABELS SHALL INCLUDE THE FOLLOWING:
- IDENTIFICATION NUMBER AND NAME. GENERALLY, THIS NUMBER AND NAME SHALL BE THE SAME AS THAT SHOWN ON THE DRAWINGS OR IN THE SPECS.
- IF THE ITEM IS PART OF A UNIT, THE LABEL SHALL HAVE, IN ADDITION TO ITS ITEM NUMBER, THE NUMBER OF THE MAIN ITEM IT IS SERVING.
- VALVES SHALL BE TAGGED WITH THE AREA SERVED AND THEIR NORMAL OPERATING POSITIONS SHALL BE INDICATED.
- WHERE THE MAIN UNIT IS SERVED BY THE VALVE IS APPARENT, ONLY THE VALVE FUNCTION NEEDS TO BE INCLUDED ON THE NAMEPLATE.

- C. THE TYPES OF NAMEPLATES SHALL BE AS FOLLOWS:
- VALVE TAGS SHALL BE 1/2" EMBOSSED ALUMINUM TAPES WITH IDENTIFICATION ON ONE SIDE FOR VALVES. TAGS FOR MAGNETIC STARTERS SHALL BE SCREWED TO THE METAL STARTER COVER. TAGS SHALL BE ADDRESSOGRAPH NO. B-5300.
- EQUIPMENT NAMEPLATES SHALL BE BLACK FACED FORMICA WITH WHITE ENGRAVED LETTERING AT LEAST 3/16" HIGH.
- VALVE TAGS SHALL BE CONNECTED TO VALVE STEMS BY STEEL RINGS OR CHAINS. SCREWS SHALL BE USED FOR EQUIPMENT LABELS. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETE LIST OF ALL VALVES AND EACH ITEM OF EQUIPMENT TO BE IDENTIFIED WITH THE PROPER IDENTIFICATION.

#### 1.07 FIRESTOPPING

#### A. SEE DIVISION 22

### 2.01 EXHAUST FANS

EXHAUST FANS OF TYPE, SIZE AND CAPACITY SHOWN ON DRAWINGS SHALL BE FURNISHI AND INSTALLED. FANS SHALL BE DIRECT DRIVE OF RPM SHOWN AND SHALL BE COMPLETE WITH FAN HOUSING, BACKDRAFT DAMPER, FAN SPEED CONTROL, FACTORY ROOF CURB, FACTORY PRE-WIRED DISCONNECT AND MOTOR. AIR QUANTITIES SHALL BE CERTIFIED BY AMCA. FANS SHALL BE PENN, COOK, TWIN CITY, GREENHECK, SOLER & PALAU OR EQUAL

#### 2.02 DIFFUSERS, REGISTERS AND GRILLES

### AIR DISTRIBUTION EQUIPMENT SHALL BE OF SIZES AND CAPACITIES INDICATED.

- REGISTERS, GRILLES, AND DIFFUSERS OF THE SIZES SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN SHALL BE FURNISHED AND INSTALLED. ALL GRILLES, DIFFUSERS, AND REGISTERS SHALL BE COMPLETE WITH FRAMES WITH RUBBER GASKETS SUITABLE FOR THE AREA AND WALL CONSTRUCTION WHERE SHOWN ON THE DRAWINGS.
- FINISH FOR ALL REGISTERS, DIFFUSERS, GRILLES, ETC., SHALL BE OFF-WHITE UNLESS OTHERWISE SELECTED BY THE OWNER. APPROVED MANUFACTURERS FOR ALL AIR DISTRUBUTION PRODUCTS SHALL BE PRICE INDUSTRIES, NAILOR, METAL AIR, TITUS OR
- SUPPLY AIR SHALL BE INTRODUCED INTO CONDITIONED SPACE IN SUCH A MANNER THAT CONDITIONED AIR AND ROOM AIR IS RAPIDLY AND EVENLY MIXED, RESULTING IN equalization of temperature and draftless air distribution throughout zones of OCCUPANCY WITH TEMPERATURE DIFFERENTIALS UP TO 25 DEGREES F FOR BOTH COOLING AND HEATING AIR. QUANTITIES AND THROWS SHALL BE AS INDICATED.
- VELOCITY OF MOVING AIR BELOW 5 FOOT LEVEL, DURING COOLING CYCLE, SHALL NOT EXCEED LIMITS OF EITHER 50 FPM AT 1.5 DEGREES F BELOW AVERAGE ROOM TEMPERATURE OR 70 FPM AT 1 DEGREE F BELOW AVERAGE ROOM TEMPERATURE. VELOCITY OF MOVING AIR AT THE 1FOOT LEVEL, DURING HEATING CYCLE, SHALL NOT BE LESS THAN 10 FPM. TEMPERATURE DIFFERENCE AT OR BELOW THE 5 FOOT LEVEL SHALL NOT EXCEED THE FOLLOWING: 2 DEGREES F BELOW AVERAGE ROOM TEMPERATURE AT 30 FPM, 1.5 DEGREES F BELOW AVERAGE ROOM TEMPERATURE AT 50 FPM, 1.0 DEGREES F BELOW AVERAGE ROOM TEMPERATURE AT 70 FPM. SOUND PRESSURE LEVEL IN ALL OCTAVE BANDS FOR EACH DIFFUSER SHALL NOT EXCEED NC35 NOISE CRITERIA CURVE AT TASK LEVEL WHEN UNITS OPERATE AT DESIGNED CAPACITIES.
- CEILING DIFFUSERS, GRILLES AND REGISTERS SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE SO THAT THEY ARE NOT DEPENDING ON THE CEILING FOR SUPPORT.
- CEILING DUFFUSERS MAY BE ROUND NECKED OR EQUIVALENT SIZE SQUARE NECK. PROVIDE SQUARE TO ROUND NECK ADAPTER AS NECESSARY. FLEX DUCT SHALL TYPICALLY CONNECT DIRECTLY TO THE DIFFUSER USING A 1-1/2" RADIUS FLEXIBLE DUCT ELBOW. IF SPACE DOES NOT ALLOW FOR A FULL 1-1/2" RADIUS TO BE PROVIDED, THEN A LINED SHEET METAL BOOT SHALL BE PROVIDED. THE FLEXIBLE DUCT SHALL BE CONNECTED TO THE SIDE OF THE SHEET METAL BOOT. THE FLEXIBLE DUCT SHALL NOT BE CONNECT TO THE TOP OF THE SHEET METAL BOOT.
- CEILING SUPPLY AIR DIFFUSERS SHALL BE LOUVERED FACED DIRECTIONAL DIFFUSER MODEL SMD MANUFACTURED BY PRICE INDUSTRIES, WITH BORDER TYPE 36 FOR LAY IN CEILING OR BORDER TYPE 1 FOR SURFACE MOUNTING IN OTHER THAN LAY IN CEILINGS, BAKED ENAMEL FINISH, BLOW AND PATTERN SHOWN ON THE DRAWINGS.

# 2.03 DUCTS AND SHEET METAL WORK

- PROVIDE DUCTS, PLENUMS, ACCESS DOORS, FRESH AIR INTAKES, AND EXHAUSTS AS INDICATED AND REQUIRED. ALL DUCTWORK SHALL BE CONSTRUCTED. ERECTED AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION. PROVIDE PREFABRICATED SPIRAL LOCKSEAM DUCTS AND FITTINGS AND RECTANGULAR DUCTS OF GALVANIZED STEEL. ALUMINUM FLEXIBLE DUCTWORK OR GYPSUM BOARD DUCTWORK IS NOT ACCEPTABLE.
- ALL CONNECTIONS TO MAIN DUCTS SHALL BE MADE WITH LOW LOSS FITTINGS.
- C. FLAT DUCT SURFACES SHALL BE CRIMPED DIAGONALLY REGARDLESS OF SIZE. LONGITUDINAL JOINTS IN ALL DUCT SIZES MAY BE FLAT LOCK JOINTS. TRANSVERSE JOINTS AND INTERMEDIATE BRACING SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL OR GALVANIZED STRUCTURAL ANGLES IN ACCORDANCE WITH REQUIREMENTS OF ASHRAE GUIDE AND PUBLIC AUTHORITIES HAVING JURISDICTION.
- TRANSVERSE JOINTS ON ALL DUCTS SHALL BE SEALED WITH MASTIC OR TAPE.
- LONGITUDINAL JOINTS ON DUCTS WITH INTERNAL STATIC PRESSURES IN EXCESS OF 0.75 INCHES OF WATER PRESSURE SHALL BE SEALED WITH MASTIC OR TAPE.
- LOCK JOINTS SHALL BE HAMMERED TO MAKE THEM AIRTIGHT. INSIDE OF DUCT SHALL PRESENT A SMOOTH SURFACE TO FLOW AIR.
- CHANGES IN SIZE OF DUCTS SHALL INCREASE GRADUALLY WITH A SLOPE OF NOT MORE THAN 12 INCHES IN 5 FEET WHERE POSSIBLE, BUT NOT MORE THAN 12 INCHES IN 3 FEET IN
- TURNS SHALL BE MADE WITH A THROAT RADIUS OF NOT LESS THAN THE DUCT WIDTH. PLENUMS SHALL BE MADE OF 18 GAUGE GALVANIZED SHEET STEEL REINFORCED HORIZONTALLY ON A MAXIMUM OF 48" CENTERS BY 1-1/2" X 1-1/4" X 1/8" GALVANIZED
- ANGLES AND REINFORCED VERTICALLY BY 1-1/2" STANDING SEAMS. DUCT CONSTRUCTION IS TO MEET SMACNA.

DAMPERS USED IN LOW VELOCITY BRANCH DUCTS TO CONTROL THE VOLUME OR AIR FLOW SHALL BE YOUNG NO. 817 VOLUME DAMPER OR EQUAL. AN OPERATING HEAD SHALL BE PLACE ON THE SIDE OF THE DUCT AND SHALL BE LOCKED IN POSITION BY A SET KEY WHERE THE DAMPER IS ACCESSIBLE. WHERE THE DAMPER IS NOT ACCESSIBLE, YOUNG NO. 817A OR 817B VOLUME CONTROL DAMPER OR EQUAL, CONSISTING OF AN END BEARING OR MITER GEAR, COUPLING, 3/8-INCH SQUARE SHAFT, AND REGULATOR FOR OPERATING THE UNIT FROM THE CEILING SHALL BE PROVIDED.

- THERMAL DUCT INSULATION: INSULATE ALL SUPPLY AND RETURN AIR DUCTS, UNLESS OTHERWISE SPECIFIED WITH KNAUF OR EQUAL, MICROLITE FIBERGLASS DUCT INSULATION, FOIL FACED, 3/4 LB. DENSITY, 1–1/2" THICK INSULATION WRAPPED ENTIRELY AROUND DUCT WITH JOINTS LAPPED AT LEAST 2" AND SECURED WITH 16 GAUGE GALVANIZED WIRE ON 12" CENTERS. INSULATION SHALL COVER ALL SURFACES INCLUDING STANDING SEAMS. THERMAL RESISTIVE VALUE OF DUCT WRAP SHALL BE A MINIMUM OF R-5.
- RECTANGULAR SUPPLY DUCTS AND RETURN AIR DUCTS LOCATED IN UNCONDITIONED SPACES SHALL BE LINED WITH KNAUF LINACOUSTIC OR EQUAL, 1 INCH, 1–1/2 LB, THERMAL RESISTIVE VALUE OF DUCT LINER SHALL BE A MINIMUM OF R-4.2. RECTANGULAR SUPPLY DUCTS AND RETURN AIR DUCTS LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE LINED WITH KNAUF LINACOUSTIC OR EQUAL, 2 INCH, 1-1/2 LB, THERMAL RESISTIVE VALUE OF DUCT LINER SHALL BE A MINIMUM OF R-8. DENSITY COATED FIBERGLASS DUCT LINER COMPLYING WITH FRICTION CORRECTION FACTOR NOT GREATER THAN 1.1 AT A VELOCITY OF 3000 FPM. APPLY INSULATION TO INSIDE OF DUCTS WITH AN APPROVED FIRE RETARDANT ADHESIVE TO PROVIDE 100% COVERAGE AND A SMOOTH SURFACE. IN DUCTS WITH ONE SIDE MORE THAN 12", SECURE INSULATION WITH MECHANICAL FASTENERS IN ADDITION TO ADHESIVE, SPACED AT 14" CENTERS IN BOTH DIRECTIONS. MECHANICAL FASTENERS SHALL BE FLUSH WITH THE LINER SURFACE AND SHALL START WITHIN 2" OF THE LEADING EDGE OF EACH SECTION, AND WITHIN 3" OF THE LEADING EDGE OF ALL CROSS JOINTS OF THE LINER BE HEAVILY COATED WITH AN APPROVED FIRE RESISTANT ADHESIVE. THE DUCT LINER BE CUT TO ASSURE SNUG CLOSING CORNER JOINTS, THE BLACK SURFACE OF THE LINER SHALL FACE THE AIR STREAM, TRANSVERSE JOINTS SHALL BE NEATLY BUTTED AND ALL DAMAGED AREAS SHALL BE HEAVILY COATED WITH AN APPROVED ADHESIVE.
- ALL DUCT INSULATION SHALL HAVE AN NRC RATING OF NOT LESS THAN 0.60 AND A K FACTOR OF NOT MORE THAN 0.27. DUCT DIMENSIONS SHALL BE INCREASED 2 INCHES ON EACH SIDE FROM THOSE SHOWN ON DRAWINGS TO ACCOMODATE INSULATION.

## 2.06 DUCT PENETRATIONS

ALL DUCTS PENETRATING THROUGH THE FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY SAFED WITH DOW CORNING 3-6548 SILICONE RTV FOAM OR EQUAL. INSTALL PER MANUFACTURES DIRECTION.

#### 2.07 TURNING VANES

TURNING VANES SHALL BE FURNISHED AND INSTALLED IN ALL 90-DEGREE TURNS IN SUPPL RETURN, MIXED AIR AND FRESH AIR DUCTS, AND ELSEWHERE AS SHOWN ON THE DRAWINGS. MATERIAL OF TURNING VANES SHALL MATCH DUCTWORK. VANES ARE TO BE SINGLE BLADE, OF SIZE, SPACING, GAUGE, AND FABRICATION IN ACCORDANCE WITH SMACNA RECCOMENDATIONS.

#### 2.08 EQUAL MATERIALS AND SUBSTITUTIONS

IN ADDITION TO MANUFACTURERS SPECIFIED. THE FOLLOWING SHALL ALSO BE CONSIDERED EQUAL, PROVIDED CORRESPONDING MODELS MEET SPECIFIED REQUIREMENTS. EQUIVALENT SUBSTITUTED EQUIPMENT NAMED HEREIN SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. SUBMIT ALTERNATE SELECTIONS AT TIME OF BID, LISTING MAJOR EQUIPMENT:

> INSULATION: DIFFUSERS AND GRILLES:

CERTAINTEED, MANVILLE, FIBERGLAS NAILOR, PRICE, KRUEGER

#### 2.10 TEMPERATURE CONTROLS

FURNISH COMPLETE DIRECT DIGITAL CONTROL SYSTEM. CONTROLS SHALL BE AN EXTENSION OF THE EXISTING FACILITY CONTROLS SYSTEM. CONTROL WORK SHALL CONFORM TO OWNER'S CONTROL SPECIFICATIONS 250125 BUILDING AUTOMATION SYSTEM, 250130 BAS INTERFACE REQUIREMENTS, AND 250205 FIELD DEVICES FOR BUILDING AUTOMATION SYSTEMS.

## 2.11 SEQUENCE OF OPERATION HVAC SYSTEM

- ALL NEW AND EXISTING CONTROLLERS SHALL BE RUN TO MBC AS DIRECTED BY THE AIRPORT CONTROL PERSONNEL.
- B. VAV ZONES WITH REHEAT COIL. 1. OCCUPIED MODE OF THE ZONE CONTROLLER SHALL BE DETERMINED BY THE CENTRAL CONTROL. IN THE OCCUPIED MODE IF THE SPACE TEMPERATURE IS BETWEEN THE HEATING TEMPERATURE AND THE COOLING TEMPERATURE SETPOINT, THE BOX SHALL BE IN A DEADBAND MODE. THE LOCAL DDC CONTROL LOOP SHALL MODULATE THE PRIMARY DAMPER TO MAINTAIN THE VENTILATION MINIMUM CFM SETPOINT. ON A FALL IN SPACE TEMPERATURE EQUAL TO THE HEATING TEMPERATURE SETPOINT. THE CONTROLLER SHALL THAN MODULATE THE REHEAT COIL AS WELL AS RESET THE SUPPLY AIR VOLUME BETWEEN THE VENTILATION MINIMUM AND THE HEATING MAXIMUM SETPOINT. THE HEATING VOLUME SHALL BE A FUNCTION OF THE HEATING CALCULATION PERCENTAGE TO MINIMIZE THE AMOUNT OF REHEAT. ON A 100% CALL FOR HEAT, THE VAV BOX SHALL CONTROL TO THE MAXIMUM HEATING VELOCITY SETPOINT AND THE CONTROL VALVE SHALL BE WIDE OPEN. 2. THE REVERSE SHALL OCCUR ON AN INCREASE IN SPACE TEMPERATURE EQUAL TO OR GREATER THAN THE HEATING TEMPERATURE SETPOINT. WHEN THE SPACE TEMPERATURE IS EQUAL TO OR GREATER THAN THE COOLING TEMPERATURE SETPOINT THE VAV BOX PROCESSOR SHALL ENTER THE COOLING MODE. THE CONTROLLER SHALL RESET THE BOX CFM SETPOINT FROM THE MINIMUM VENTILATION SETPOINT TO THE COOLING MAXIMUM SETPOINT IN THE WAY BOX DAMPED SHALL BE COSED AND THE SETPOINT. IN THE UNOCCUPIED MODE THE VAV BOX DAMPER SHALL BE CLOSED AND THE REHEAT COIL VALVE CLOSED. ON A FALL IN SPACE TEMPERATURE BELOW THE OCCUPIED HEATING SETPOINT THE CONTROL VALVE SHALL OPEN AND THE PRIMARY AIR DAMPER SHALL CONTROL TO THE HEATING VOLUME TO MAINTAIN THE NIGHT SET BACK SETTING.

# 2.11 SEQUENCE OF OPERATION HVAC SYSTEM

- THE ZONES ARE LARGE. AVERAGE TEMPERATURE OF THE ZONE SHALL BE DETERMINED BY PLACING MULTIPLE SPACE SENSORS AS SHOWN ON THE PRINTS. THESE SENSORS SHALL BE TERMINATED AT A PXC POINT EXPANSION MODULE WHERE THE READINGS SHALL BE AVERAGED AND RELAYED TO THE TEC CONTROLLERS ON THE INDIVIDUAL VAV
- . EXHAUST FANS SHALL CONTROL FROM BUILDING SCHEDULE, AND SHALL OPERATE CONTINUOUSLY DURING NORMALLY OPEN HOURS.

# 2.12 MECHANICAL PIPE INSULATION

- HOT WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED WITH 1/2" THICK OWENS-CORNING ASJ-25 FIBERGLASS PIPE INSULATION WITH VAPOR SEAL JACKET. THE INSULATION SHALL BE APPLIED OVER CLEAN, DRY PIPE WITH ALL JOINTS
  FIRMLY BUTTED TOGETHER. FITTINGS SHALL BE SIMILARLY INSULATED WITH A
  FIBERGLASS BLANKET INSULATION COVERED WITH A PREMOLDED PVC COVER.
  PROVIDE AN ALUMINUM FITTING COVER WHERE PIPE IS COVERED WITH AN ALUMINUM
- PRIOR TO APPLICATION OF INSULATING MATERIALS, SURFACES TO BE INSULATED SHALL BE BRUSHED CLEAN AND MADE FREE FROM RUST, SCALE, GREASE, DIRT, AND OTHER DELETERIOUS MATERIALS. INSULATION SECTIONS OR BLOCKS SHALL BE PLACED SO THE LEAST POSSIBLE DAMAGE TO INSULATION WILL RESULT FROM
- FOR ALL INSULATED PIPING NOT INSTALLED WITH PRE—INSULATED PIPE SUPPORTS, INSTALL HIGH DENSITY INSERTS (CALCIUM SILICATE) AT EACH PIPE SUPPORT OR HANGER. PROVIDE METAL SHIELD UNDER HANGER.

AND A SMOKE CONTRIBUTION OF 0 TO 50.

FOR ALL HOT WATER SYSTEMS, INSULATION SHALL BE BEVELED TO EXPOSE ALL FLANGES, UNIONS, VALVES, STRAINERS AND SPECIAL ACCESSORIES. RAW ENDS OF 2.15 PIPE HANGERS INSULATION SHALL BE COVERED WITH FINISHING CEMENT TO PROVIDE A SMOOTH INSULATION MATERIALS, ADHESIVES, COATINGS AND OTHER ACCESSORIES SHALL HAVE BURNING CHARACTERISTICS AS DETERMINED BY ASTM E 84 AND TESTED WITH UBC STANDARD 42-1 SHALL HAVE A FLAME SPREAD AND SMOKE CONTRIBUTION AS FOLLOWS: PIPE AND TUBING INSULATION SHALL HAVE A FLAME SPREAD OF 0 TO 25

#### 2.13MECHANICAL PIPE & FITTING SCHEDULE

- A. NO PIPE OF A FOREIGN MANUFACTURER WILL BE ACCEPTABLE.

BLACK AND GALVANIZED STEEL PIPE: ASTM A53 ERW GRADE B, STANDARD WEIGHT

- HEATING SYSTEM LINES SHALL BE STANDARD WEIGHT BLACK STEEL PIPE. PIPE 2-1/2 INCH AND LARGER SHALL HAVE WELDED FITTINGS. PIPE 2—INCH AND SMALLER SHALL BE
- UNIONS SHALL GENERALLY BE USED ON ALL CONNECTIONS TO AUTOMATIC VALVES AND
- IN GENERAL, UNIONS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS FOR ALL CONNECTING PIPING: ON EACH PIPE AT HEATING OR COOLING COIL, AT CONNECTIONS TO HEATING OR COOLING EQUIPMENT, ON ALL SIDES OF AUTOMATIC VALVES WHERE VALVES DO
- ALL VALVES IN CONNECTION WITH PIPING SHALL BE HAMMOND, MILWAUKEE, KEYSTONE, CRANE, CENTERLINE, WALWORTH, NIBCO, STOCKAM, WATTS, CENTRAL SPRINK, INC. OR GRINNELL. BALL VALVES SHALL BE BRONZE WITH BRONZE BALL, TEFLON SEAT, INDICATOR DIAL, INSULATED HANDLE, AND ADJUSTABLE PACKING. BALL OR GLOBE VALVES MAY BE USED ON ALL WATER PIPING 2 INCHES AND SMALLER. ALL VALVES 2 INCHES AND SMALLER SHALL BE ALL BRONZE CONSTRUCTION. COMPANION FLANGES SHALL BE PROVIDED FOR BUTTERFLY SCREWED CONNECTIONS. COMPANION FLANGES SHALL BE PROVIDED FOR
- BUTTERFLY VALVES AND NONSLAM CHECK VALVES. VALVES SHALL BE INSTALLED WITH STEMS HORIZONTAL OR ABOVE.
- CALIBRATED BALANCING VALVES 2 INCHES AND SMALLER SHALL BE BELL & GOSSETT CIRCUIT SETTER, EQUIPPED WITH BARCO SHUTOFF VALVES AND QUICK-DISCONNECTS.
- CHECK VALVES 2 INCHES AND SMALLER SHALL BE MILWAUKEE 509 OR 1509; CRANE NO. 36 OR NO. 1342; NIBCO #T413-B OR S-413-B; GRINNELL 3300 OR 3300SJ. BALL VALVES SHALL BE MILWAUKEE BA-100 FULL PORTED TWO-PIECE CONSTRUCTION, OR
- BALANCING COCKS 2 INCHES AND SMALLER SHALL BE CRANE NO. 250 OR MILWAUKEE BUTTERBALL BB2-100 OR BB2-350 WITH MEMORY STOP.
- AIR VENT VALVES SHALL BE CRANE NO. 88 OR MILWAUKEE 600, 200-PSI WORKING PRESSURE, 3/8 INCH BRONZE NEEDLE-POINT GLOBE.
- M. VALVE ASSEMBLIES BY FLOWSET MAY BE USED WHERE APPROVED. STRAINERS SHALL BE KECKLEY, SARCO, VICTAULIC, CENTRAL SPRINK, INC. OR WEBSTER, OF THE SELF-CLEANING TYPE. PERFORATIONS IN STRAINERS SHALL BE 1/16 INCH IN DIAMETER. BLOWOFF BALL VALVES SHALL BE PROVIDED FOR ALL STRAINERS. A THREADED HOSE CONNECTION SHALL BE PROVIDED ON ALL STRAINERS LOCATED ABOVE CEILINGS. PRESSURE RATING OF STRAINERS SHALL BE EQUAL TO BUT IN NO CASE LESS THAN THE PRESSURE TESTING OF ADJOINING VALVES.
- COMBINATION TEST PLUGS BY UNIVERSAL CONTROL OR TACO SHALL BE INSTALLED. PIPING 2" AND SMALLER SHALL BE THREADED. ALL CHANGES IN DIRECTION SHALL BE MADE WITH STANDARD THREADED FITTINGS. UNDER NO CONDITIONS WILL PIPING BE NOTCHED,
- PIPING SHALL BE ACCURATELY SIZED TO MEASUREMENTS ESTABLISHED AT THE BUILDING AND WORKED INTO PLACE WITHOUT SPRINGING OR FORCING. PROPER PROVISIONS SHALL BE MADE FOR THE EXPANSION AND CONTRACTION OF ALL PIPE LINES. SCREW JOINTS SHALL MADE WITH A LUBRICANT APPLIED TO THE MALE THREADS ONLY. THREADS SHALL BE FULL CUT AND NOT MORE THAN THREE THREADS ON THE PIPE SHALL REMAIN EXPOSED.

# 2.14 PIPE IDENTIFICATION

- A. IDENTIFICATION OF PIPING SHALL BE DONE WITH "BRADY" OR "WESTLINE" LABELS. THE COLOR CODING SHALL COMPLY WITH OSHA ANSI SAFETY COLOR CODING REGULATIONS. MEANS OF IDENTIFICATION SHALL BE COLOR CODED BAND AND AN IDENTIFYING LEGEND TO INDICATE THE CONTENTS OF THE PIPE AND A DIRECTION OF FLOW ARROW. THE IDENTIFYING COLOR CODED BANDS, LEGENDS, AND DIRECTIONAL ARROWS ON PIPING AND DUCT SYSTEMS SHALL BE LOCATED ADJACENT TO EACH VALVE, AT EVERY POINT OF ENTRY AND EXIT WHERE PIPING PASS THROUGH A WALL OR CEILING, ON EACH RISER AND JUNCTION, EVERY 500 FEET ON LONG CONTINUOUS LINES AND ADJACENT TO ALL SPECIAL
- ITTINGS (REGULATING VALVES, ETC.). LEGENDS SHALL BE APPLIED ON THE COLOR BAND ON THE PERIMETER OF THE PIPE IN A LOCATION THAT WILL BE READILY VISIBLE TO OPERATING PERSONNEL FROM THE FLOOR IN
- D. COLOR CODING SHALL FOLLOW ANSI STANDARDS:

MATERIAL	BACKGROUND COLOR	IDENTIFYING LEGEND	LETTERING
DOMESTIC COLD DOMESTIC HOT DOMESTIC HOT RETURN HEATING WATER RETURN HEATING WATER SUPPLY	GREEN YELLOW WHITE YELLOW YELLOW	DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN HEATING WATER SUPPLY HEATING WATER SUPPLY	WHITE BLACK BLACK BLACK BLACK

- ALL NECESSARY STRUCTURAL MEMBERS, HANGERS, AND SUPPORTS OF APPROVED DESIGN SHALL BE PROVIDED TO KEEP PIPING IN PROPER ALIGNMENT AND TO PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. PIPE HANGERS SHALL GENERALLY BE OF THE CLEVIS PIPE—CLAMP TYPE WITH SUSPENSION BOLTS. ALL BOLTS SHALL HAVE PROVISION FOR
- VERTICAL ADJUSTMENT AND SHALL BE EQUIPPED WITH LOCKNUTS. NO HANGER SHALL BE WELDED DIRECTLY TO STEEL JOISTS. WHERE JOISTS OCCUR, CLIPS SHALL BE INSTALLED AND HANGER ROD ATTACHED TO CLIPS. ALL PIPING HUNG FROM JOISTS SHALL BE HUNG FROM JOIST PANEL POINTS. PROTECTIVE SADDLES SHALL BE PROVIDED ON ALL INSULATED FOR ALL DISTRIBUTION OF HANGER. HANGERS SHALL NOT CONTACT PIPE WHERE PIPE IS SPECIFIED TO BE INSULATED AND HANGERS SHALL NOT PENETRATE

# 2.15 PIPE HANGERS

- THE FOLLOWING IS A SCHEDULE OF MAXIMUM SPACING FOR HANGERS OR OTHER SUPPORTS AND SIZES OF SUSPENSION RODS FOR PIPING. IN ADDITION TO THE SPACING LISTED, AN ADDITIONAL HANGER SHALL BE PROVIDED 1 FOOT 0 INCHES FROM EACH PIPE DROP, RISE, OR
- PIPE SIZE ROD DIAMETER MAXIMUM SPACING
- 1-1/4 IN. AND 1/2 IN. 6 FT.
- PIPE HANGERS SHALL NOT BE WELDED TO METAL PAN FLOOR. PIPE HANGERS SHALL BE CONCRETE INSERTS INSTALLED IN HOLES DRILLED IN CONCRETE. B. ALL HANGERS, SUPPORTS, AND ANCHORS SHALL BE ASSEMBLED WITH HEAVY PATTERN, HEXAGON CARBON STEEL NUTS.
- C. PERFORATED METAL STRAP SHALL NOT BE PERMITTED.

VENTS SHALL BE USED AT ALL LOCATIONS.

ALL PIPE HANGERS, INSERTS, TRAPEZES, ETC., AND ALL NECESSARY ACCESSORIES REQUIRED TO SUPPORT THE PIPING SHALL BE PROVIDED BY THIS CONTRACTOR. E. ALL PIPE HANGERS SHALL BE INSTALLED OUTSIDE OF INSULATION ON ALL INSULATED LINES.

F. MANUFACTURERS MAY BE BLAW-KNOX, GRINNELL, OR PIPE SHIELDS, INC.

# 2.16 AIR VENTS

- AIR VENTS SHALL BE INSTALLED ON ALL HIGH POINTS IN THE GEOTHERMAL SUPPLY AND RETURN PIPING AND GEOTHERMAL HEATING/COOLING SUPPLY AND RETURN PIPING SYSTEMS. EACH AIR VENT SHALL CONSIST OF A 1-INCH PIPE CHAMBER 6 INCHES LONG. MANUAL AIF
- MANUAL AIR VENTS SHALL BE JENKINS (FIG. 743-G OR FIG. 744-G), NEEDLE VALVES,

#### 2.17 ATC VALVES

- A. ATC CONTRACTOR SHALL FURNISH A MOTORIZED, SPRING RETURN,2—WAY OR 3— WAY BALL VALVE OF PROPER SIZE TO BE MOUNTED IN THE SUPPLY WATER PIPING PRIOR TO EACH VARIABLE VOLUME REHEAT COIL. ACTUATORS SHALL BE COMPATIBLE WITH AIRPORT CONTROL SYSTEM. MOUNTING OF EACH ATC VALVE SHALL BE BY THE INSTALLING MECHANICAL
- AUTOMATIC VALVES SHALL BE AVAILABLE IN EITHER FLANGED OR SCREWED CONNECTION VALVES 2" AND SMALLER SHALL BE SCREWED AND LARGER VALVES SHALL BE FLANGED. SCREWED VALVES SHALL BE RATED AT 150 PSI AND HAVE CAST IRON, BRASS OR STEEL BODIES. FLANGED VALVES SHALL BE RATED AT 125 PSI MINIMUM AND SHALL HAVE CAST IRON OR STEEL BODIES. ALL TWO—WAY VALVES, EITHER NORMALLY OPEN OR NORMALLY CLOSED, SHALL BE FURNISHED WITH MODULATING PLUGS WHICH PRODUCE AN EQUAL PERCENTAGE FLOW CHARACTERISTIC. THREE—WAY MIXING VALVES SHALL BE FURNISHED WITH EQUAL PERCENTAGE PLUGS. WATER VALVES SHALL BE SIZED FOR 3—5 PSI P.D.
- AUTOMATIC VALVES FOR VARIABLE VOLUME REHEAT COIL SHALL BE LINE SIZED (NO CONNECTION SIZE). VALVES SHALL BE COMPATIBLE WITH AIRPORT'S EXISTING SIÈMENS

## 2.18 HIGH EFFICIENCY BRANCH TAKE-OFFS

A. EXPANDED THROAT HIGH EFFICIENCY TAKEOFFS SHALL BE USED FOR ALL BRANCH TAKEOFFS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. AN OPPOSED BLADE VOLUME DAMPER WITH LOCKING QUADRANT SHALL BE PROVIDED AT EACH BRANCH TAKEOFF. WHERE DAMPERS ARE NOT ACCESSIBLE FOR ADJUSTMENT FROM ABOVE, CONCEALED CEILING REGULATORS WITH ADJUSTABLE CHROME-PLATED COVERS SHALL BE PROVIDED. HIGH EFFICIENCY TAKE-OFFS SHALL BE HERCULES OR DANIEL.

### 3.01 DISCREPANCIES

- A. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE OWNER.
- B. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.

### 3.02 EQUIPMENT IDENTIFICATION

ALL MAJOR EQUIPMENT SHALL BEAR FIRMLY ATTACHED METAL NAMEPLATES WHICH STATE NAME OF MANUFACTURER, MODEL NUMBER AND ELECTRICAL DATA.

### 3.03 INITIAL LUBRICATION, ADJUSTING, AND FILLING SYSTEMS

A. BEFORE OPERATING ANY MECHANICAL SYSTEMS, EQUIPMENT BEARINGS SHALL BE LUBRICATED AND BOLTS, PULLEYS, AND OTHER MOVING PARTS CHECKED FOR ALIGNMENT AND TOLERANCES IN ACCORDANCE WITH MANUFACTURER'S OPERATING INSTRUCTIONS. VIBRATIONS AND NOISE

### 3.04 CLEANING OF EQUIPMENT, MATERIALS AND PREMISES

A. BE PAINTED SMOOTH AND CLEAN, READY FOR PAINTERS. CLEAN ENTIRE PREMISES OF UNUSED MATERIALS, RUBBISH, DEBRIS, GREASE SPOTS AND DIRT LEFT BY SUBCONTRACTOR.

# A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

# 3.06 ACCESSIBILITY

INSTALL WORK READILY ACCESSIBLE FOR NORMAL OPERATION, READING OF INSTRUMENTS, ADJUSTMENT, SERVICE, INSPECTION AND REPAIR, PROVIDE ACCESS PANELS WHERE INDICATED AND REQUIRED. ACCESS PANELS SHALL BE THE RESPONSIBILITY OF RESPECTIVE

3.07 SYSTEM BALANCING

3.05 EQUIPMENT AND MATERIAL

- A. BALANCING WORK INCLUDED:
- COMPLETE TESTING AND BALANCING OF THE HVAC SYSTEM AS HEREIN SPECIFIED VERIFICTION OF CONDITIONS: PRIOR TO TESTING AND BALANCING, INSPECT EQUIPMENT AND MATERIALS AND ARRANGE WITH CONTRACTOR FOR SATISFACTORY CORRECTION OF ALL DEFECTS IN WORKMANSHIP AND/OR MATERIAL THAT COULD AFFECT THE WORK SPECIFIED
- C. PROTECTION: AS SPECIFIED HEREIN. D. SYSTEM OPERATION: CONTRACTOR SHALL PUT ALL PARTS OF SYSTEMS IN FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING

TEST DATA: SUBMIT COPY OF TEST DATA TO OWNER ON COMPLETION OF WORK UNDER THIS

- TEST AND BALANCE CONTRACTOR SHALL CERTIFY IN WRITING THAT SYSTEM HAS BEEN ADJUSTED AND BALANCED AND DESIGN CONDITIONS HAVE BEEN ATTAINED IN ALL AREAS OF
- INSTRUMENTS: INSTRUMENTS USED BY CONTRACTOR SHALL BE ACCURATELY CALIBRATED AND MAINTAINED IN GOOD WORKING ORDER.
- AIR DISTRIBUTION TESTING AND BALANCING:
- TEST AND RECORD MOTOR FULL LOAD AMPERS AND RPM.

2. TEST AND RECORD SYSTEM STATIC PRESSURES, SUCTION AND DISCHARGE.

3. ADJUST ALL SUPPLY AND RETURN AIR DUCTS TO PROPER DESIGN CFM. 4. IN COOPERATION WITH THE CONTROL MANUFACTURER'S REPRESENTATIVE, THE SETTING ADJUSTMENT OF AUTOMATICALLY OPERATED CONTROLS TO OPERATE AS SPECIFIED,

WITNESS: NOTIFY OWNER IN WRITING TWO WEEKS PRIOR TO TESTING AND BALANCING OF ALL

# MAJOR EQUIPMENT IN ORDER TO ARRANGE THAT OWNER,S REPRESENTATIVE WILL WITNESS

3.08 OPERATION

- A. PLACE SYSTEM IN OPERATION AND REGULATE AND ADJUST TO OWNER'S SATISFACTION. SYSTEMS SHALL OPERATE QUIETLY AND WITHOUT VIBRATION OR NOISE.
- A. UPON COMPLETION, THE CONTRACTOR SHALL INSPECT WORK OF THIS SECTION AND DELIVER TO OWNER A WRITTEN CERTIFICATION THAT INSTALLED MATERIALS AND WORKMANSHIP CONFORM

– END

**M**.

SALT LAKE CITY, UT 84122

**SHEET** INFORMATION

REVIEWED BY

100% Submittal

311 Elm Street Suite 600

Cincinnati, OH 45202

513 241 3000

181 East 5600 South

Murray, Utah 84107

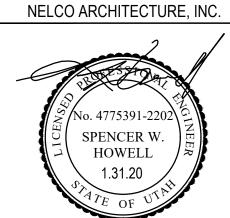
O: (801) 530-3148

www.vbfa.com vbfa project #: 19596

F: (801) 530-3150

**ISSUE INFORMATION** 

REVISIONS



**PROJECT INFORMATION** 

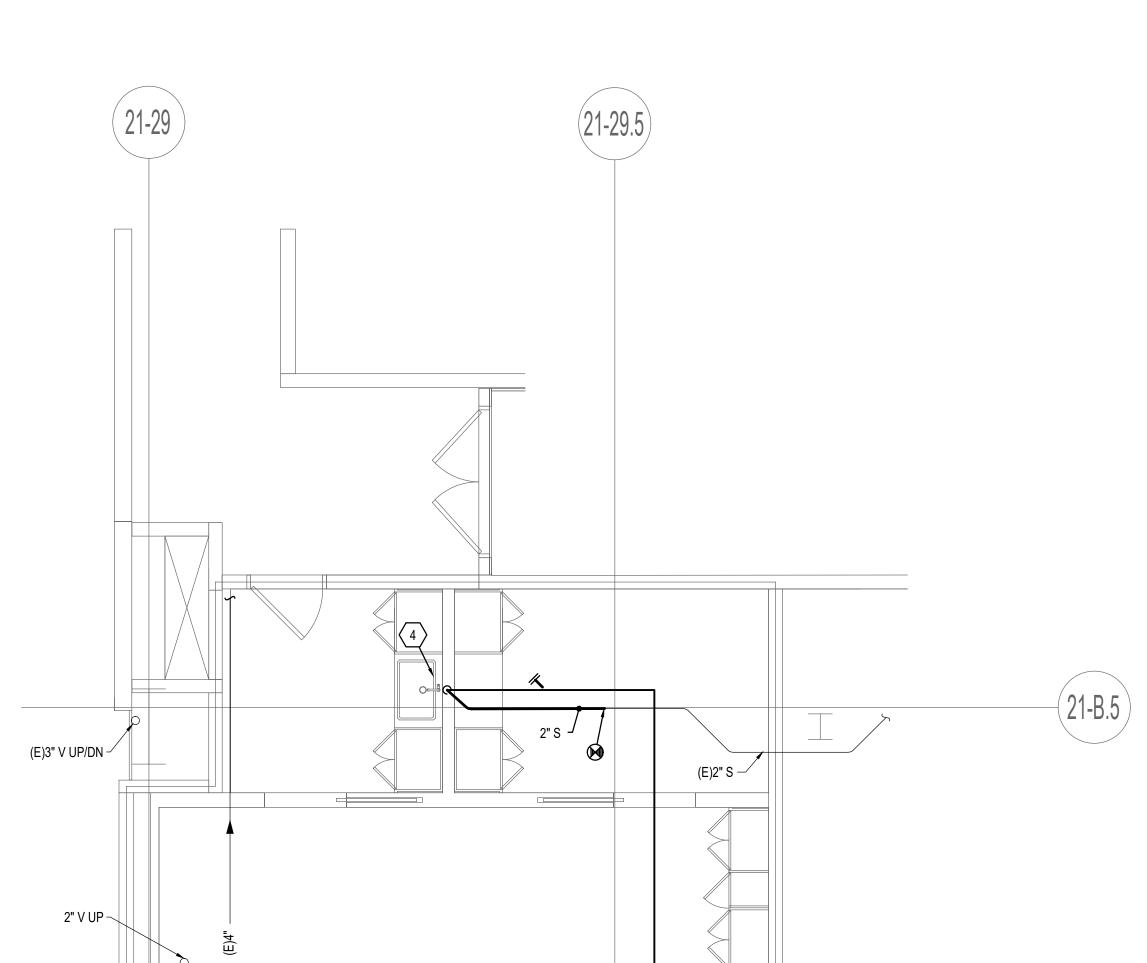
SLC AIRPORT 3920 WEST TERMINAL DR SPACE #: CAW-2-017

19.0003852 ACTUAL SHEET SIZE IS 24"x36"

MECHANICAL SPECIFICATIONS

DRAWN BY:

**AUTHORIZED FOR:** 







1. ROUTE DOMESTIC HOT WATER PIPING AS REQUIRED TO SINK. 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCT SIZES, PIPE SIZES, LOCATIONS AND CONDITIONS PRIOR TO BEGINNING ANY WORK. IF ANY DISCREPANCIES, ERRORS, CONFLICTS OR CONCERNS ARE UNCOVERED BY THE CONTRACTORS THEY SHALL BRING THEM TO THE OWNER/ENGINEER'S ATTENTION PRIOR TO ANY

WORK PROGRESSING FOR RESOLUTION. 3. INSTALL PIPING AS SHOWN, TYPICAL. CONTRACTOR SHALL COORDINATE WITH DUCTWORK, PIPING, LIGHTS, SPRINKLERS, CEILING, CABLE TRAY AND STRUCTURE PRIOR TO ORDERING, FABRICATING, PURCHASING OR INSTALLING ANY WORK. IF ANY DISCREPANCIES, ERRORS, CONFLICTS OR CONCERNS ARE UNCOVERED BY THE CONTRACTORS THEY SHALL BRING THEM TO THE OWNER/ENGINEER'S ATTENTION PRIOR TO ANY WORK PROGRESSING FOR RESOLUTION. 4. WALL CLEANOUT, TYPICAL.

KEY PLAN

AREA \ OF WORK

311 Elm Street Suite 600 Cincinnati, OH 45202

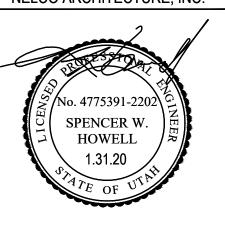
513 241 3000

**ISSUE** INFORMATION 01.31.2020

**REVISIONS** 

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NELCO ARCHITECTURE, INC.



**PROJECT** INFORMATION

XpresSpa SLC AIRPORT 3920 WEST TERMINAL DR.

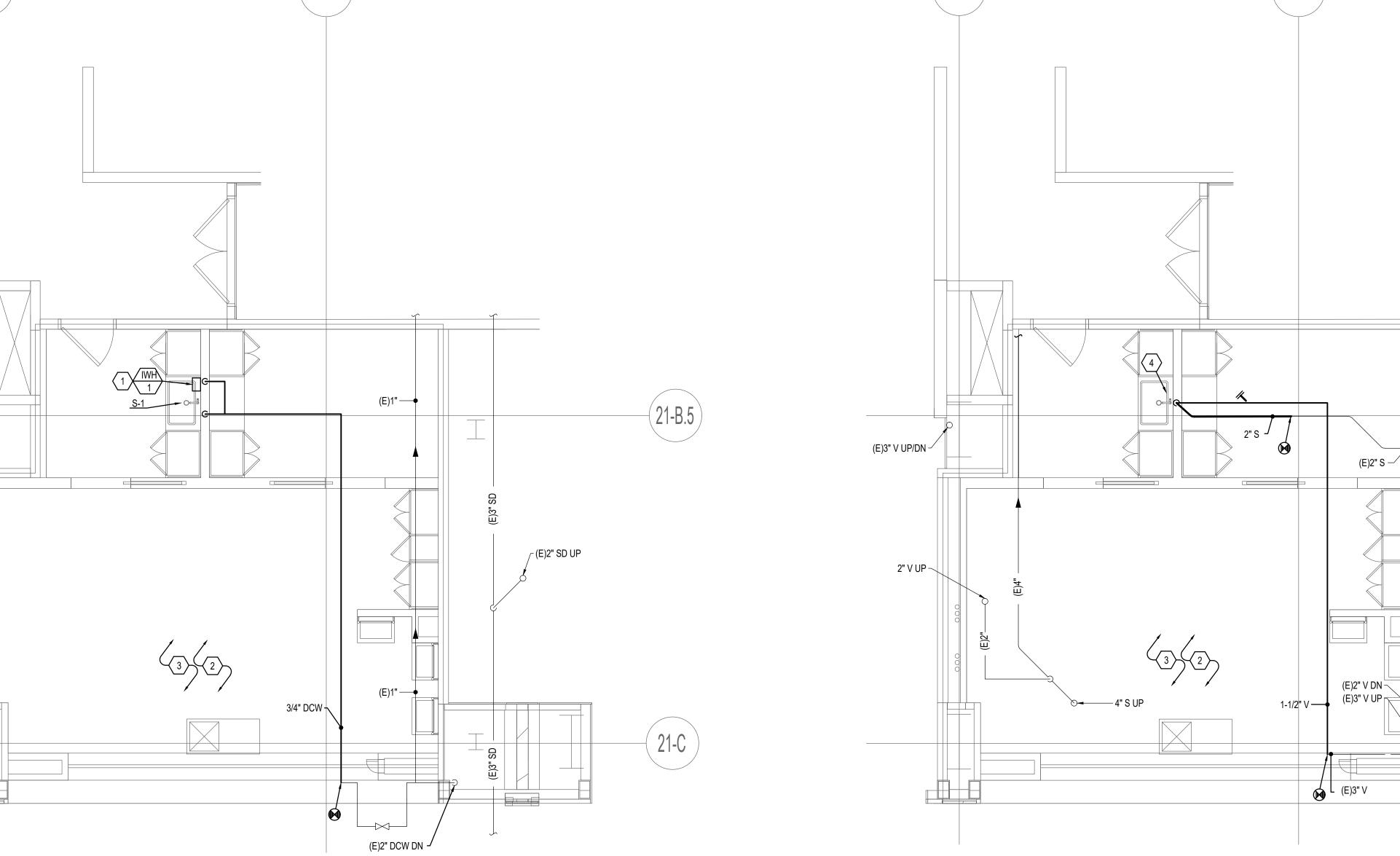
SPACE #: CAW-2-017 SALT LAKE CITY, UT 84122 **PROJECT #:** 19.0003852

ACTUAL SHEET SIZE IS 24"x36" **SHEET** INFORMATION

PLUMBING PLAN

**AUTHORIZED FOR:** 100% Submittal

SET



DOMESTIC WATER PLUMBING PLAN