

PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	SPECIFICATION
S-1	SINK	1/2	1/2	2	1-1/2	FIXTURE: AMERICAN STANDARD 14SB.301900.073 18 GAUGE STAINLESS STEEL KITCHEN SINK 28" X 17" X 9" FAUCET: AMERICAN STANDARD HEARITAGE/AMARILIS MODEL 7100.271H, SINGLE HANDLE PANTRY/BAR SINK FAUCET GOOSENECK SWIVEL SPOUT WITH BRASS WRIST BLADES 1/2" MALE INLET 1.5GPM.

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

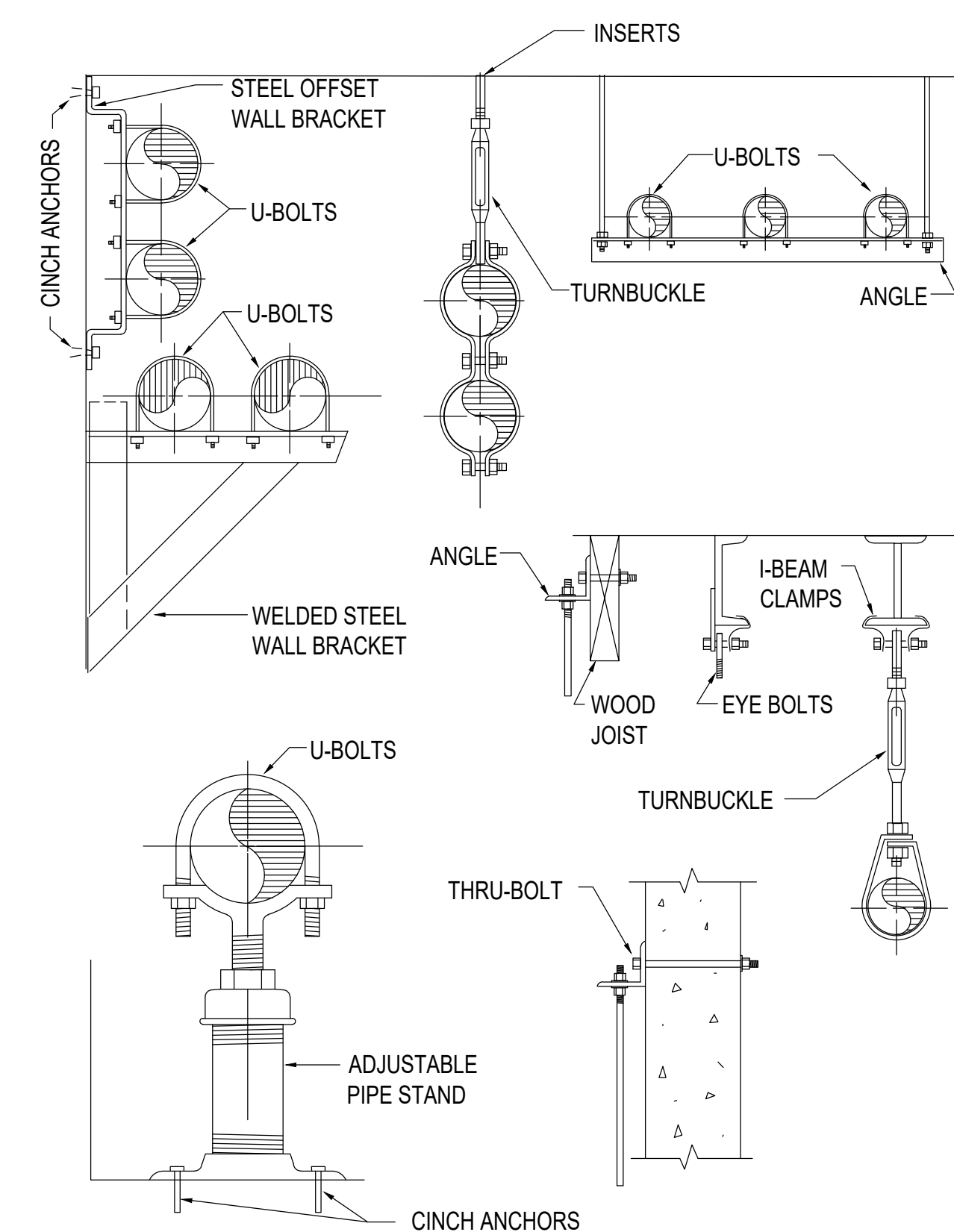
WATER HEATER SCHEDULE

ID	MANUFACTURER	MODEL NUMBER	ELECTRICAL		HEIGHT/ WIDTH/ DEPTH (IN)	NOTES
			(KW)	V/PH		
IWH-1	EEMAX	SPEX3512T	4.1	208/1	10 / 6 / 3	-

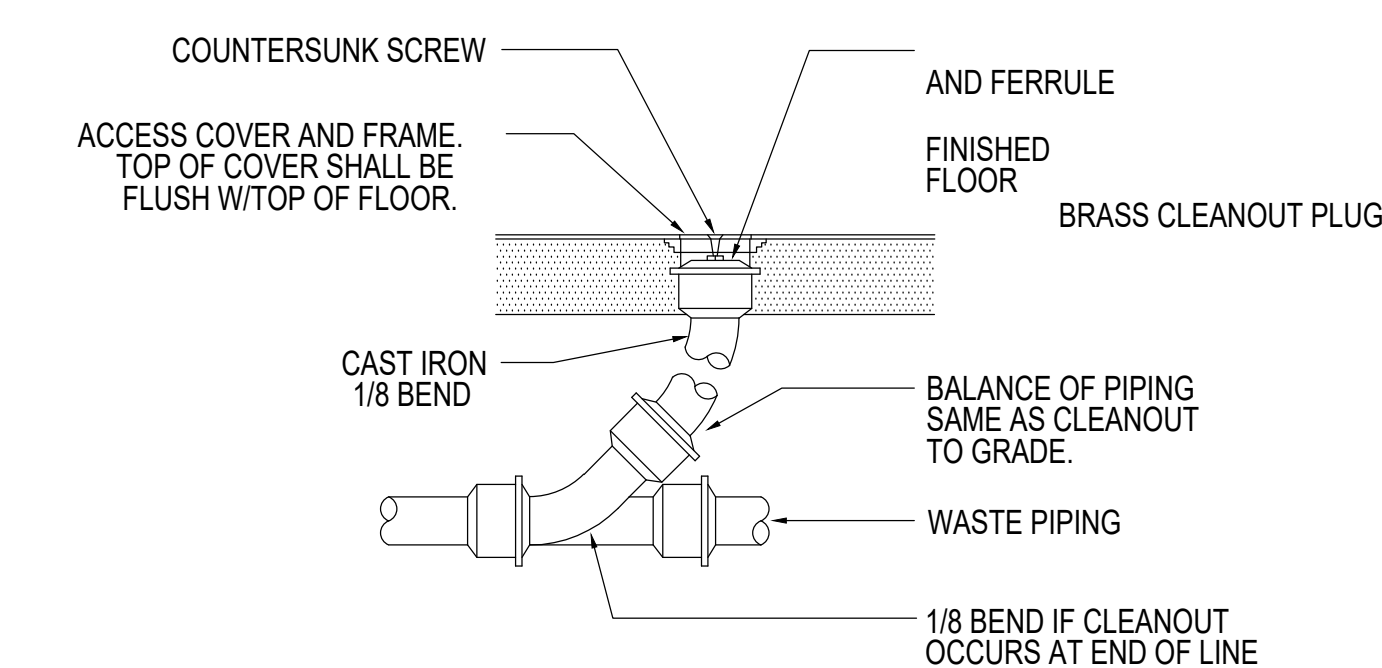
BRANCH WATER LINE SCHEDULE

FIXTURE	FIXTURE UNITS	QUANTITY OF FIXTURES SERVED BY					
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
WATER CLOSET (FLUSH VALVE)	10	---	---	1	3	5	15
WATER CLOSET (TANK TYPE)	3	1	2	4	10	---	---
URINAL	5	---	1	2	6	10	30
LAVATORY	2	1	3	6	15	25	---
SERVICE SINK	4	1	3	6	---	---	---
QUANTITY OF FIXTURE UNITS SERVED BY	---	3	6	12	30	50	150

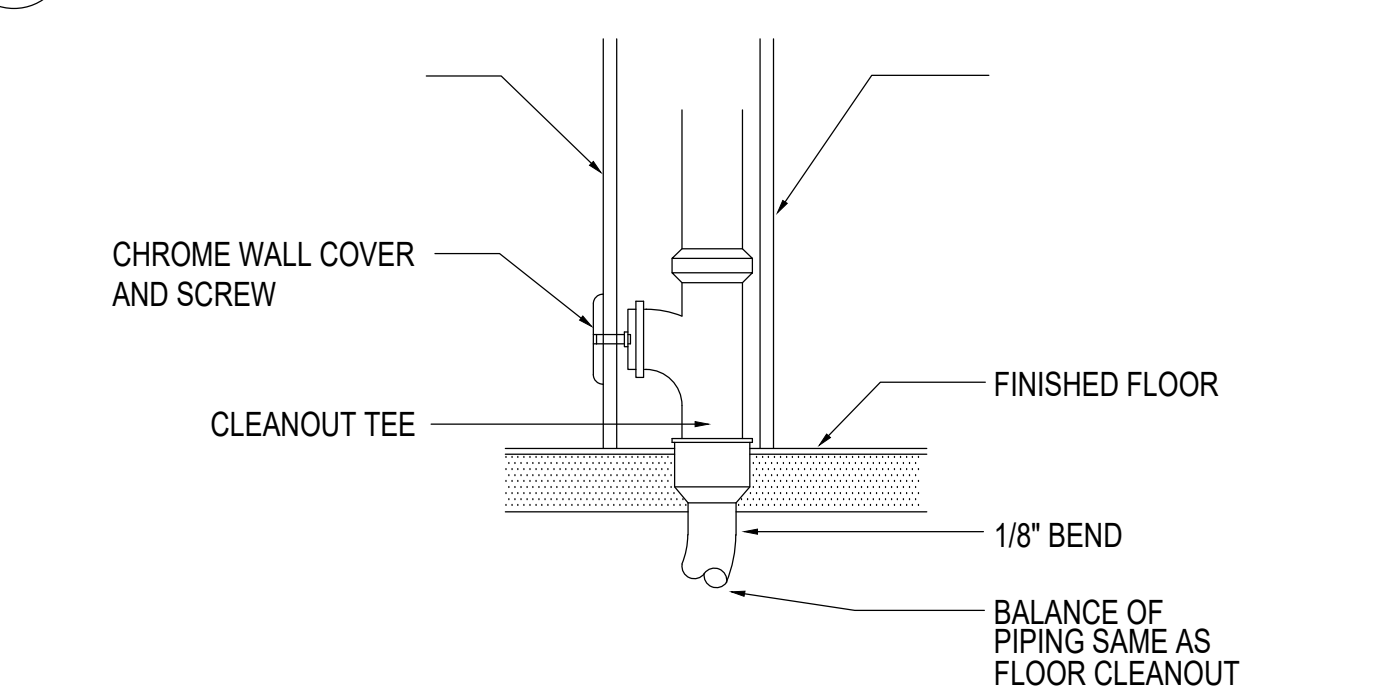
NOTE: WHERE PIPING IS SIZED ON DRAWINGS IT SHALL BE FOLLOWED. OTHERWISE INSTALL ACCORDING TO TABLE. WHERE FIXTURES ON A BRANCH ARE MIXED, TAKE THE SUM OF FIXTURE UNITS TO DETERMINE SIZING. THE BRANCHES SHALL BE REDUCED AS THE LOAD IS TAKEN OFF. MINIMUM SIZE TO ONE (1) FIXTURE SHALL BE 1/2".



3 TYPICAL PIPE SUPPORT DETAIL
NO SCALE



1 FLOOR CLEANOUT DETAIL
NO SCALE



2 WALL CLEANOUT DETAIL
NO SCALE

ISSUE INFORMATION

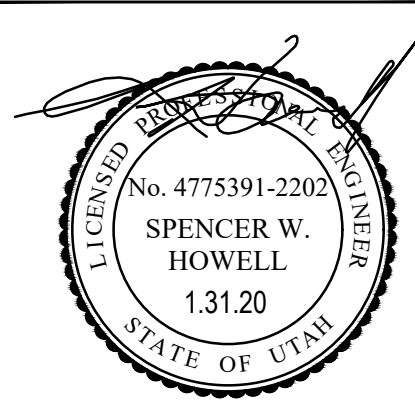
01.31.2020

REVISIONS

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VBFA

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 SCHEDULES AND DETAILS

DRAWN BY:

REVIEWED BY:

SCALE:
AS NOTED

AUTHORIZED FOR:
100% Submittal

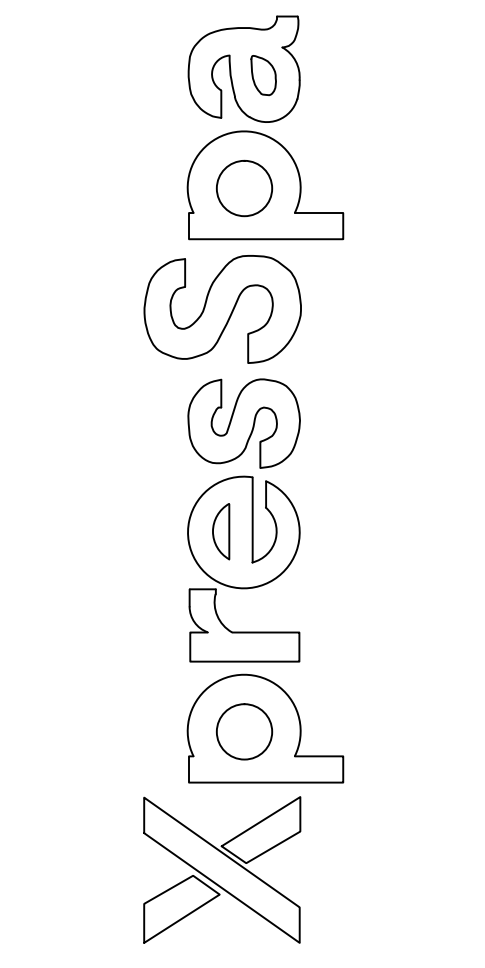
P501

BID SET

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	DIVISION 22 - PLUMBING														
	PART 1 - GENERAL														
	1.01 GENERAL CONDITIONS														
	THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND DIVISION 1, ARE A PART OF THIS SECTION AND THE CONTRACT FOR THIS WORK AND SHALL APPLY TO THIS SECTION AS FULLY AS IF REPEATED HEREIN.														
	1.02 SCOPE OF WORK														
	FURNISH ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND NECESSARY INCIDENTALS FOR THE COMPLETE INSTALLATION OF ALL PLUMBING AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.														
	A. WORK SPECIFIED IN THIS SECTION														
	1. SANITARY SOIL, WASTE AND VENT SYSTEMS.														
	2. DOMESTIC HOT AND COLD WATER SYSTEMS.														
	3. FURNISH AND SET ALL SLEEVES FOR PIPES PASSING THROUGH WALLS AND FLOORS.														
	4. PIPE COVERING, INSULATION AND WRAPPING.														
	5. ROUGH-IN AND FINAL CONNECTIONS TO AIR CONDITIONING EQUIPMENT OF CONDENSATE DRAINS.														
	6. ALL PLUMBING FIXTURES, VALVES, AND OTHER MISCELLANEOUS ITEMS OR EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION.														
	1.03 QUALITY ASSURANCE														
	A. CODES AND STANDARDS														
	1. ALL ITEMS INDICATED ON SITE, ARCHITECTURAL OR MECHANICAL DRAWINGS ARE TO BE PROVIDED COMPLETE FROM POINT OF CONNECTION TO FINISHED FIXTURE IN CONFORMANCE WITH ALL GOVERNING AUTHORITY REQUIREMENTS. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK IN VIOLATION OF GOVERNING CODES.														
	2. IN ADDITION TO THE REQUIREMENTS OF ALL GOVERNING CODES, ORDINANCES AND AGENCIES, CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CURRENT CODES AND STANDARDS:														
	a. INTERNATIONAL PLUMBING CODE.														
	b. INTERNATIONAL BUILDING CODE.														
	c. INTERNATIONAL MECHANICAL CODE.														
	d. INTERNATIONAL ENERGY CONSERVATION CODE.														
	1.04 PRODUCT HANDLING														
	A. PROTECTION: TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING AND AFTER INSTALLATION.														
	B. 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 OWNER.														
	1.05 SUBMITTALS														
	A. MANUFACTURER'S LITERATURE: WITHIN 15 BUSINESS DAYS AFTER AWARD OF CONTRACT AND BEFORE ANY OF THE MATERIALS OF THIS SECTION ARE DELIVERED TO THE JOB SITE, SUBMIT AN ELECTRONIC COPY OF ALL MATERIALS AND EQUIPMENT, PER DIVISION 1 OF THE SPECIFICATIONS.														
	B. OTHER SUBMITTALS:														
	1. SHOP DRAWINGS.														
	2. STERILIZATION TEST REPORT.														
	3. TEST DATA.														
	SETS IN BOUND BOOKLET FORM OF WRITTEN OPERATING AND MAINTENANCE INSTRUCTIONS AND BROCHURES FOR EQUIPMENT SPECIFIED IN THIS SECTION. FULLY INSTRUCT OWNER'S OPERATING PERSONNEL.														
	C. RECORD DRAWINGS: KEEP AN ACCURATE DIMENSIONED RECORD OF AS-BUILT LOCATIONS AND ELEVATIONS, AS REFERRED TO APPROVED BASE DATA, BURNED CONCEALED.														
	D. OPERATION AND MAINTENANCE INSTRUCTIONS: DELIVER TO ARCHITECT TWO COMPLETE LINES, HANDLE, CLEANED, VALVES AND PLUGS, CALLED ENDS, AND OF WORK WHICH IS INSTALLED DIFFERENT FROM SHOWN IN THE PLANS.														
	1.06 MISCELLANEOUS														
	A. EXAMINATION OF THE SITE: EXERCISE CARE IN EXAMINING THE SITE AND COORDINATE ALL WORK INDICATED ON THE DRAWINGS WITH EXISTING CONDITIONS. REPORT TO ARCHITECT IN WRITING CONDITIONS THAT WILL PREVENT PROPER PROVISIONS OF THIS WORK. VERIFY DEPTH AND LOCATION OF ALL SERVICE LINES WITH SERVING COMPANIES HAVING JURISDICTION BEFORE EXCAVATING. BY SUBMISSION OF THE BID, THE CONTRACTOR WARRANTS THAT HE HAS FAMILIARIZED HIMSELF WITH THE EXISTING CONDITIONS AND WILL PERFORM ALL WORK AS REQUIRED FOR HOOKUP AND AS REQUIRED BY THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST.														
	B. PERMITS AND FEES: ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND FEES REQUIRED BY ALL GOVERNING AGENCIES.														
	C. SERVICE CONNECTIONS: MAKE ALL NECESSARY ARRANGEMENTS WITH APPLICABLE UTILITY COMPANY FOR CONNECTION TO EXISTING SERVICE LINES. PAY ALL FEES ASSOCIATED WITH WORK INCLUDING METERS, HOOKUP CHARGE AND UTILITY ASSESSMENT FEES.														
	D. DRAWINGS: COORDINATE ALL SPACE REQUIREMENTS WITH OTHER TRADES. DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF PIPING, EQUIPMENT, AND OTHER ITEMS AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE.														
	1.07 FIRESTOPPING														
	A. ONLY TESTED FIRESTOP SYSTEMS SHALL BE USED.														
	B. FIRESTOP SYSTEM INSTALLATION MUST MEET REQUIREMENTS OF ASTM E-814, UL 1479 OR UL 2079 TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO THAT OF CONSTRUCTION BEING PENETRATED.														
	C. PROPOSED FIRESTOP MATERIALS AND METHODS SHALL CONFORM TO APPLICABLE GOVERNING CODES HAVING LOCAL JURISDICTION.														
	D. FIRESTOP SYSTEMS DO NOT REESTABLISH THE STRUCTURAL INTEGRITY OF LOAD BEARING PARTITIONS/ASSEMBLIES, OR SUPPORT LIVE LOADS AND TRAFFIC. INSTALLER SHALL CONSULT THE STRUCTURAL ENGINEER PRIOR TO PENETRATING ANY LOAD BEARING ASSEMBLY.														
	E. FOR THOSE FIRESTOP APPLICATIONS THAT EXIST FOR WHICH NO UL TESTED SYSTEM IS AVAILABLE THROUGH A MANUFACTURER, AN ENGINEERING JUDGMENT DERIVED FROM SIMILAR UL SYSTEM DESIGNS OR OTHER TESTS WILL BE SUBMITTED TO LOCAL AUTHORITIES HAVING JURISDICTION FOR THEIR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ENGINEER JUDGMENT DRAWINGS MUST FOLLOW REQUIREMENTS SET FORTH BY THE INTERNATIONAL FIRESTOP COUNCIL (SEPTEMBER 7, 1994, AS MAY BE AMENDED FROM TIME TO TIME).														
	F. THE WORK OF THIS SECTION SHALL BE ACCOMPLISHED BY A SINGLE SOURCE CONTRACTOR OR BY THOSE CONTRACTORS WHO, BY THEIR CONTRACT, ARE PENETRATING RATED CONSTRUCTION WITH THEIR WORK. REGARDLESS OF RESPONSIBILITY, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE AND VERIFY THAT ALL PRODUCTS, SYSTEMS, ETC. USED UNDER THIS SECTION ARE APPROPRIATE AND MEET THE INTENT OF THIS SPECIFICATION AND IS ACCOMPLISHED BY FACTORY TRAINED WORKMEN.														
	G. ACCEPTABLE MANUFACTURERS AREA SUBJECT TO COMPLIANCE WITH THROUGH PENETRATION FIRESTOP SYSTEMS (XHEZ) AND JOINT SYSTEMS (XHN) LISTED IN VOLUME 2 OF THE UL FIRE RESISTANCE DIRECTORY. PROVIDE PRODUCTS OF THE FOLLOWING MANUFACTURERS AS IDENTIFIED: 1. HILTI, INC., TULSA, OKLAHOMA(800) 578-8000 WWW.HILTI.COM, 2. 3M CORPORATION, 3. SPECIFIED TECHNOLOGIES INC., 4. METACALK, RECTORSAL CORP., 5. TREMCO, 6. CAFCO, ISOLATEK INTERNATIONAL, 7. NELSON FIRESTOP PRODUCTS.														
	H. USE ONLY FIRESTOP PRODUCTS THAT HAVE BEEN UL 1479, ASTM E-814, OR UL 2079 TESTED FOR SPECIFIC FIRE-RATED CONSTRUCTION CONDITIONS CONFORMING TO CONSTRUCTION ASSEMBLY TYPE, PENETRATING ITEM TYPE, ANNULAR SPACE REQUIREMENTS, AND FIRE-RATING INVOLVED FOR EACH SEPARATE INSTANCE.														
	I. FIRE STOPPING MATERIALS INSTALLED ARE REQUIRED TO HAVE LABELS ON BOTH SIDES OF THE PROTECTED PENETRATION.														
	J. CAST-IN-PLACE FIRESTOP DEVICES FOR USE WITH NON-COMBUSTIBLE AND COMBUSTIBLE PLASTIC PIPE (CLOSED AND OPEN PIPING SYSTEMS) PENETRATING CONCRETE FLOORS, THE FOLLOWING PRODUCTS ARE ACCEPTABLE:														
	1. HILTI CP 680 CAST-IN-PLACE FIRESTOP DEVICE.														
	K. ADD AERATOR ADAPTOR WHEN USED IN CONJUNCTION WITH AERATOR ("SOVENT") SYSTEM.														
	1. HILTI CP 681 TUB BOX KIT FOR USE WITH TUB INSTALLATIONS.														
	L. SEALANTS, CAULKING MATERIALS, OR FOAMS FOR USE WITH NON-COMBUSTIBLE ITEMS INCLUDING STEEL PIPE, COPPER PIPE, RIGID STEEL CONDUIT AND ELECTRICAL METALLIC TUBING (EMT), THE FOLLOWING PRODUCTS ARE ACCEPTABLE:														
	1. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT														
	2. HILTI CP 604 SELF-LEVELING FIRESTOP SEALANT														
	3. HILTI CP 620 FIRE FOAM														
	4. HILTI CP 606 FLEXIBLE FIRESTOP SEALANT														
	5. HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT														
	M. SEALANTS OR CAULKING MATERIALS FOR USE WITH SHEET METAL DUCTS, THE FOLLOWING PRODUCTS ARE ACCEPTABLE:														
	1. HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT														
	2. HILTI CP 606 FLEXIBLE FIRESTOP SEALANT														
	3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT														
	N. INTUMESCENT SEALANTS, CAULKING MATERIALS FOR USE WITH COMBUSTIBLE ITEMS (PENETRANTS CONSUMED BY HIGH HEAT AND FLAME) INCLUDING INSULATED METAL PIPE, PVC JACKETED, FLEXIBLE CABLE OR CABLE BUNDLES AND PLASTIC PIPE, THE FOLLOWING PRODUCTS ARE ACCEPTABLE:														
	1. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT														
	O. FIRESTOP COLLAR OR WRAP DEVICES ATTACHED TO ASSEMBLY AROUND COMBUSTIBLE PLASTIC PIPE (CLOSED AND OPEN PIPING SYSTEMS), THE FOLLOWING PRODUCTS ARE ACCEPTABLE:														
	1. HILTI CP 642 FIRESTOP COLLAR														
	2. HILTI CP 643 FIRESTOP COLLAR														
	3. HILTI CP 645 WRAP STRIPS														
	P. MATERIALS USED FOR COMPLEX PENETRATIONS MADE TO ACCOMMODATE CABLE TRAYS, MULTIPLE STEEL AND COPPER PIPES, ELECTRICAL BUSWAYS IN RACEWAYS, THE FOLLOWING PRODUCTS ARE ACCEPTABLE:														
	1. HILTI CP 637 TROWELABLE FIRESTOP COMPOUND														
	2. HILTI FS 657 FIRE BLOCK														
	3. HILTI CP 620 FIRE FOAM														
	Q. NON CURING, BE-PENETRABLE MATERIALS USED FOR LARGE SIZE/COMPLEX PENETRATIONS MADE TO ACCOMMODATE CABLE TRAYS, MULTIPLE STEEL AND COPPER PIPES, ELECTRICAL BUSWAYS IN RACEWAYS, THE FOLLOWING PRODUCTS ARE ACCEPTABLE:														
	1. HILTI FS 657 FIRE BLOCK.														
	PART 2 - PRODUCTS														
	2.01 GENERAL														
	A. PIPE SLEEVES AND WRAPPING: PROVIDE POLISHED CHROMIUM PLATED AND BRASS SET SCREW FLANGES WHERE PLUMBING PIPING PASS THROUGH WALLS, FLOORS, CEILINGS, AND PARTITIONS IN FINISHED PORTIONS OF BUILDING INCLUDING FLANGES ON PIPES AT FIXTURES. ALL SLEEVES IN CONCRETE AND EXTERIOR WALLS SHALL BE 20 GA. GALVANIZED IRON. ONE INCH O.D. LARGER THAN THE PIPE. CAULKED IF BELOW GRADE IN A MOISTUREPROOF MANNER. ALL PIPES PENETRATING THROUGH FIRE WALLS AND FLOORS SHALL BE PROPERLY SAFED WITH DOW CORNING 3-6548 SILICONE RTV FOAM OR EQUAL. INSTALL PER MANUFACTURER'S DIRECTION.														
	B. PIPE IDENTIFICATION:														
	1. PIPING IDENTIFICATION PER ANSI AND OSHA STANDARDS; EACH INDIVIDUAL PIPELINE SHALL BE MARKED FOR QUICK AND EASY IDENTIFICATION AS TO CONTENTS AND CHARACTER OF MATERIAL CARRIED IN THE PIPES BY SET ON SNA OR STR MARKER.														
	2. MARKERS SHALL BE INSTALLED AND SPACED AT NOT MORE THAN 8 FT. INTERVALS AND SO LOCATED THAT MARKERS SHALL BE VISIBLE WHERE PIPING SYSTEM IS EXPOSED.														
	3. COLOR SCHEME SHALL BE APPROVED. BASE COLOR FOR MARKERS SHALL BE AS FOLLOWS:														
	DOMESTIC HOT WATER - YELLOW														
	DOMESTIC COLD WATER - GREEN														
	SANITARY SEWER - GREEN														
	SANITARY VENT - GREEN														
	C. ONE MARKER SHALL BE INSTALLED AT EACH SIDE OF VALVES, SPECIAL FITTINGS AND AT BRANCH TAKE-OFF IN FURRED SPACES INSTALL ONE BAND 2 FT. ABOVE FLOOR AND 19 IN. BELOW CEILING LINE.														
	D. MATERIALS: MATERIALS WHEN NOT OTHERWISE DEFINITELY SPECIFIED SHALL CONFORM TO THE APPLICABLE ASTM, ASME, AIA, AND ASA STANDARDS.														
	2.02 PIPE AND FITTING SCHEDULE														
	PIPE AND FITTINGS:														
	A. NO PIPE OF A FOREIGN MANUFACTURER WILL BE ACCEPTABLE.														
	B. ALL PIPING, FITTINGS, FLANGES, ETC. SHALL BE FREE FROM DEFECTS AND SHALL COMPLY WITH THE APPROPRIATE ASTM SPECIFICATIONS.														
	C. BLACK STEEL PIPE: ASTM A53 ERW GRADE B, STANDARD WEIGHT (SCHEDULE 40) OR EXTRA STRONG (SCHEDULE 80) AS SPECIFIED.														
	D. COPPER TUBING: ASTM B88, TYPE L OR K AS SPECIFIED.														
	E. WELDED BLACK STEEL FITTINGS: ASTM A234 GRADE B, 150-POUND FOR STANDARD WEIGHT PIPING, 300-POUND FOR EXTRA STRONG PIPING, OR OF WEIGHT OR SCHEDULE OF MATCHING PIPING.														
	F. THREADED MALLEABLE IRON FITTINGS: ANSI B16.3, 150-POUND FOR STANDARD WEIGHT PIPING, 300-POUND FOR EXTRA STRONG PIPING, OR OF WEIGHT OR SCHEDULE OF MATCHING PIPING EITHER BLACK OR GALVANIZED TO MATCH PIPING.														
	G. WELDED FLANGES: ASTM A181 GRADE B, 150-POUND FOR STANDARD WEIGHT PIPING, 300-POUND FOR EXTRA STRONG PIPING OR OF EQUAL WEIGHT OF CONNECTED EQUIPMENT.														
	H. COPPER FITTINGS: WROUGHT COPPER, ANSI SPECIFICATION B16.22.														
	I. BALL VALVES, DOMESTIC WATER: BRONZE, FULLPORT, CLASS 150, THREADED, GRINNELL 3750 OR 171N NIBCO T-585 JAMESBURY 300														
	J. PARTITION STOP VALVES: T&S B415, LOOSE KEY TYPE WITH WALL FLANGE.														
	K. BALANCING COCKS 2 INCHES AND SMALLER SHALL BE CRANE NO 250 OR MILWAUKEE BUTTERBALL B82-100 OR B82-350 WITH MEMORY STOP.														
	L. SOLDER: JOINTS IN COPPER PIPING ABOVE GRADE SHALL BE STAY SAFE SO SOLDER OR 95-5 SOLDER SHALL BE SILFOS OR SILVERFLOW FOR ALL REFRIGERANT PIPING JOINTS.														
	M. DOMESTIC HOT WATER, HOT WATER RETURN, AND COLD WATER PIPING SHALL BE TYPE L OR K HARD TEMPERED COPPER PIPE WITH WROUGHT COPPER FITTINGS.														
	WHERE PIPING IS EXPOSED OUTSIDE OF PARTITIONS, USE TYPE L OR K HARD COPPER TUBING AND WROUGHT COPPER FITTINGS														
	N. DOMESTIC HOT AND COLD WATER PIPING BURIED BELOW GRADE SHALL BE TYPE K SOFT TEMPERED (ANNEALED) COPPER WITHOUT FITTINGS OR JOINTS AND COVERED WITH IMCOA IMCSHIELD UNICELLULAR INSULATION.														
	O. ALL SOIL, WASTE, VENT, PIPING SHALL BE STAINLESS STEEL MEETING AISI 316 L 1.4404 OR ASSI 304 1.4301 WITH AT LEAST 16% CHROMIUM AND 8% NICKEL IN COMPOSITION. JOINTS SHALL HAVE PUSH-FIT SOCKET CONNECTIONS WITH EPDM RUBBER SEALS. MANIFOLD BLUCHER. INSTALL PER MANUFACTURER'S REQUIREMENTS INCLUDING HANGER SIZE AND SPACING AND REQUIRED PIPE JOINT RESTRAINTS.														
	P. ALL SOIL, WASTE, VENT, PIPING BELOW GROUND SHALL BE SOLID WALL SCH 40 PVC WITH DRAINAGE PATTERN FITTINGS AND SOLVENT CEMENT JOINTS. INSTALL PER MANUFACTURER'S REQUIREMENTS.														
	Q. ALL ROOF DRAIN OVERFLOW PIPING ABOVE GROUND SHALL BE STANDARD WEIGHT CAST IRON WITH NO HUB COUPLINGS.														
	2.03 POINT OF USE INSTANTANEOUS WATER HEATER WITH MICROPROCESSOR TEMPERATURE CONTROLLER														
	THE POINT-OF-USE WATER HEATER SHALL BE A CHRONOMITE LABORATORIES INSTANT-TEMP MICROPROCESSOR TEMPERATURE CONTROLLED ELECTRIC TANKLESS WATER HEATER, WITH GELON WATERWAYS AND STAINLESS STEEL HEATING COILS. HOT WATER STORAGE VESSELS ARE EXPRESSLY PROHIBITED. WATER HEATER TO BE FACTORY SET TO 110° F. WATER HEATER TO BE CHRONOMITE OR EMAX, NO EXCEPTION.														
	2.04 ROOF FLASHING														
	SANITARY VENT FLASHINGS: SEMCO 1100-3 OR 1100-5, WITH ONE-PIECE LEAD FLASHING AND COUNTERFLASHING SLEEVE.														
	2.05 PIPE SLEEVES														
	AT CONCRETE WALLS OR FLOORS, ADJUST-TO-CRETE, PARAMOUNT, HOLE-OUT OR SPERZEL CRETESLEEVE FLOOR SLEEVES SHALL EXTEND TO TOP OF CONCRETE CURBS FOR PIPING RISING THROUGH FLOORS. WALL SLEEVES SHALL BE FLUSH WITH FINISHED SURFACE. SLEEVES SHALL BE SIZED TO ALLOW 1/2 IN. CLEARANCE AROUND PIPE INSULATION. INSULATION AND COVERING SHALL BE CONTINUOUS THROUGH WALL AND FLOOR SLEEVES.														
	2.05 CLEANOUTS														
	A. FULL SIZE CLEANOUTS SHALL BE INSTALLED AT THE BASE OF EACH SOIL, WASTE STACK, ALL OTHER CLEANOUTS SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS AND WHERE REQUIRED BY STATE, LOCAL OR NATIONAL PLUMBING CODES.														
	B. ALL CLEANOUTS SHALL BE INSTALLED IN LOCATIONS EASILY ACCESSIBLE FOR RODDING. CLEANOUTS IN WALLS SHALL BE JR SMITH 4402, IN FLOORS JR SMITH 4023. CLEANOUTS SHALL BE JR SMITH, ZURN, WADE, OR JOSAM.														
	2.06 PIPE INSULATION														
	A. ALL DOMESTIC HOT WATER AND COLD WATER PIPING SHALL BE COVERED WITH OWENS CORNING ASJ-25 FIBERGLASS PIPE INSULATION WITH VAPOR SEAL JACKET. INSULATION THICKNESS SHALL BE 1/2 INCH FOR COLD WATER AND 1 INCH FOR HOT WATER.														
	B. INSULATE ALL PIPING UNDER LAVATORIES ACCESSIBLE TO THE PHYSICALLY HANDICAPPED WITH HOT WATER SUPPLY AND "P" TRAP PREFABRICATED INSULATION, HANDI LAV GUARD.														
	2.07 PIPE HANGERS														
	HANGERS SHALL BE SUPPLIED WITH FACTORY INSTALLED ISOLATION AND DI-CHROMATE FINISH.														
	PIPE 2 IN. AND SMALLER: GRINNELL F69. PIPE 2-1/2 IN. AND LARGER: GRINNELL F65. CONCRETE INSERTS: GRINNELL 281 ANAD 282. RISER CLAMPS FOR COPPER PIPING: GRINNELL 261P, PLASTIC COATED. RISER CLAMPS FOR OTHER PIPING: GRINNELL 261.														
	HANGER RODS SHALL CONFORM TO THE FOLLOWING: PIPE SIZE 2 IN. AND SMALLER: 3/8 IN. RODS. PIPE SIZE 2-1/2 IN. AND 3 IN.: 1/2 IN. RODS. PIPE SIZE 3 IN. AND LARGER: 5/8 IN. RODS.														
	2.08 PLUMBING FIXTURES														
	SUPPLIES AND STOPS SHALL BE FROST, BRASSCRAFT, KOHLER, EASTMAN, US BRASS, ROVERT MFG OR EQUAL. P-TRAPS SHALL BE FROST, KOHLER, SANITARY DASH OR EQUAL.														
	PLUMBING EQUIPMENT														
	CLEANOUTS ZURN, JR SMITH OR EQUAL														
	VALVES WATTS, MILWAUKEE OR NIBCO														
	PIPE HANGERS & SUPPORTS GRINNELL, FEE & MASON OR B-LINE														
	INSULATION MANVILLE OR OWNS-CORNING														
	SINK FAUCETS MOEN, KOHLER, ELKER OR EQUAL														
	PART 3 - EXECUTION														
	3.01 SURFACE CONDITIONS														
	A. INSPECTION: ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES, THE ORIGINAL DESIGN, AND THE REFERENCED STANDARDS.														
	B. DISCREPANCIES														
	1. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE ARCHITECT.														
	2. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.														
	3. INTERFERENCES BETWEEN INSTALLED WORK OF VARIOUS TRADES DUE TO LACK OF COORDINATION SHALL BE RESOLVED BY ARCHITECT WHOSE DECISION IS FINAL. RELOCATE OR OFFSET ANY WORK AS REQUIRED TO ACCOMMODATE WORK OF OTHER TRADES AT NO EXTRA COST TO THE OWNER WHEN SO DIRECTED BY THE ARCHITECT.														
	3.02 LOCATIONS AND SPACE REQUIREMENTS														
	A. CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING PECULIARITIES AND LIMITATIONS OF SPACES AVAILABLE FOR INSTALLATION OF WORK UNDER THIS DIVISION. DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF PIPING, EQUIPMENT AND OTHER ITEMS, AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. WORK SPECIFIED AND NOT CLEARLY DEFINED BY DRAWINGS SHALL BE INSTALLED AND ARRANGED IN A SATISFACTORY MANNER. IN ANY CASE AND AT ANY TIME, A CHANGE IN LOCATION REQUIRED BY OBSTACLES OR THE INSTALLATION OF OTHER TRADES NOT SHOWN ON THE MECHANICAL PLANS SHALL BE MADE BY CONTRACTOR WITHOUT ADDITIONAL CHARGE PROVIDED THE CHANGE IS ORDERED BEFORE WORK IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.														
	B. VERIFY ALL SPACES, DIMENSIONS FOR ALL FIXTURES, EQUIPMENT, OR OWNER-FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS.														
	C. OBTAIN ALL NECESSARY ROUGH IN DATA AND DIMENSIONS FOR ALL FIXTURES, EQUIPMENT, OR OWNER-FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS.														
	D. MAINTAIN AMPLE HEADROOM CLEARANCES AND ACCESSIBILITY. MAINTAIN CEILING HEIGHTS.														
	E. CONSTANTLY CHECK WORK OF OTHER TRADES TO PREVENT INTERFERENCE WITH THIS INSTALLATION.														
	3.04 SPECIALTY ITEMS														
	INSTALL AS INDICATED ON THE DRAWINGS, AS HEREIN SPECIFIED, AND AS RECOMMENDED BY MANUFACTURER.														
	3.05 STERILIZATION														
	STERILIZE EACH UNIT OF WATER SUPPLY AND DISTRIBUTION SYSTEM WITH LIQUID CHLORINE OR HYDROCHLORIDE BEFORE ACCEPTANCE FOR OPERATION IN ACCORDANCE WITH AWWA C601, "STANDARD FOR DISINFECTING WATER MAINS" WORK SHALL BE DONE BY CONTRACTOR AND, UNLESS OTHERWISE REQUIRED BY PUBLIC AUTHORITIES HAVING JURISDICTION, SHALL CONFORM TO THE FOLLOWING:														
	A. MATERIALS														
	1. LIQUID CHLORINE: U.S. ARMY SPECIFICATION 4-1. 2. HYDROCHLORIDE: LIQUID SHALL CONFORM TO FED. SPEC. Q-C-118A (Wt. 4).														
	B. TEST REPORTS: FURNISH ONE COPY OF TEST REPORT OF COMPLETE AND ADEQUATE STERILIZATION TO ARCHITECT BEFORE FINAL ACCEPTANCE OF WORK. CERTIFICATES SHALL BEAR SIGNATURE OF AN OFFICIAL OF LABORATORY RESPONSIBLE FOR TEST. COST OF TESTING LABORATORY SERVICES SHALL BE INCLUDED IN THIS SUBCONTRACT.														
	C. TEST REPORTS: FURNISH ONE COPY OF TEST REPORT OF COMPLETE AND ADEQUATE STERILIZATION TO ARCHITECT BEFORE FINAL ACCEPTANCE OF WORK. CERTIFICATES SHALL BEAR SIGNATURE OF AN OFFICIAL OF LABORATORY RESPONSIBLE FOR TEST. COST OF TESTING LABORATORY SERVICES SHALL BE INCLUDED IN THIS SUBCONTRACT.														
	3.06 ADJUSTING														
	UPON COMPLETION OF WORK AND AFTER CLEANING OF SYSTEM, FIXTURES AND EQUIPMENT, AND AUTOMATIC PARTS OF PLUMBING SYSTEM SHALL BE CAREFULLY ADJUSTED NORMAL OPERATION. ALL FLUSH VALVES AND FIXTURE STOPS SHALL BE CHECKED FOR PROPER OPERATION AND FINAL ADJUSTMENT.														



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513 241 3000

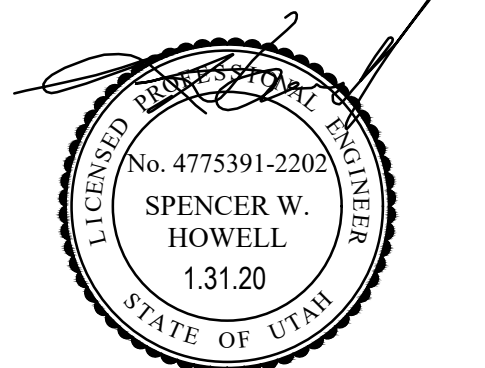


ISSUE INFORMATION
01.31.2020
REVISIONS



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vbfa project #: 19956

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 SPECIFICATIONS

DRAWN BY:
REVIEWED BY:
SCALE:
As Noted
AUTHORIZED FOR:
100% Submittal

P701

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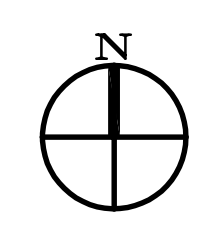
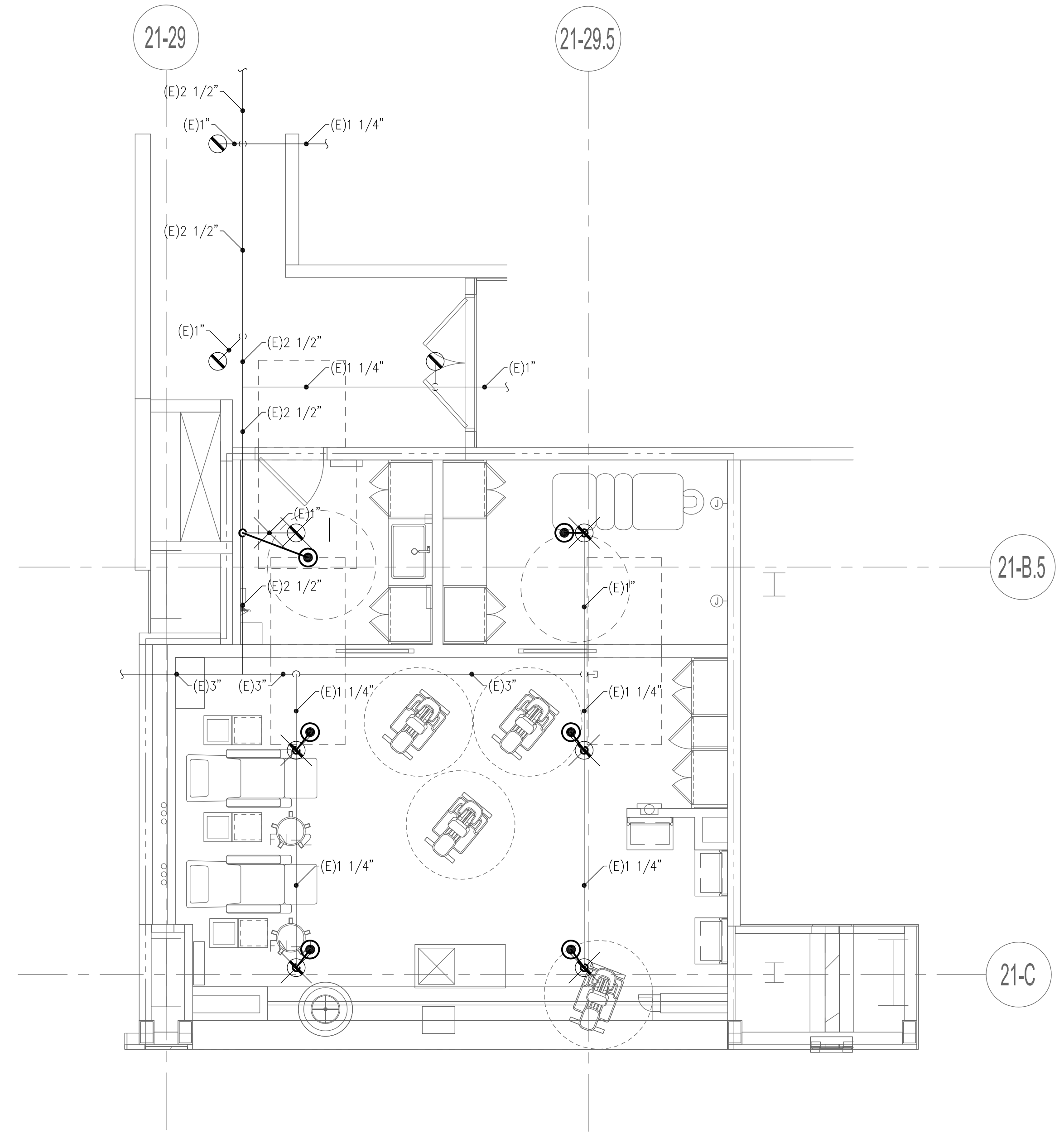
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KEYED NOTES

- 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.
- 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.

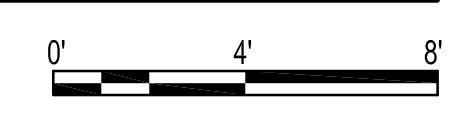
FP GENERAL NOTES

- DRAWING SHOULD NOT BE CONSIDERED AS A SHOP DRAWING. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND COORDINATE ALL PIPING WITH STRUCTURAL, MECHANICAL AND ELECTRICAL. SUBMIT SHOP DRAWINGS FOR FINAL REVIEW.
- OFFSETS ARE TO BE ANTICIPATED IN BRANCH LINES AND ARE TO BE COORDINATED BY THE CONTRACTOR WITH EXISTING CONDITIONS AND OTHER TRADES. MAKE ADDITIONAL OFFSETS AS REQUIRED.
- HANGERS AND BRACING ARE NOT SHOWN ON THIS DRAWING. REFER TO THE SPECIFICATION REQUIREMENTS AND INSTALL ACCORDINGLY.
- NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN THE FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
- FIRE SPRINKLER CONTRACTOR TO PROVIDE DESIGN FOR OCCUPANCIES SHOWN ON THE PLAN PER NFPA 13.
- FIRE SPRINKLER CONTRACTOR MAY UTILIZE EXISTING PIPING (CANNOT REUSE SPRINKLERS) WHERE THEY DO NOT CONFLICT WITH OTHER TRADES CONSTRUCTION AND IS IN GOOD CONDITION AND COMPLY WITH THE CURRENT STANDARDS.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
- COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
- ADD/RELOCATE FIRE SPRINKLER HEAD LOCATIONS FOR NEW FLOOR PLAN AND CEILING PLAN, INCLUDING CEILING HEIGHT ADJUSTMENTS. MODIFY SPRINKLER PIPING AS REQUIRED. THIS NOTE APPLIES TO ALL DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR REMODEL DETAILS.
- FIRE SPRINKLERS TO BE INSTALLED TO MEET NFPA-13-2016 EDITION AND FM GLOBAL REQUIREMENTS.
- IF MECHANICAL TEES ARE USED, THEY ARE TO BE VICTAULIC 920 OR 920N SERIES OR ENGINEER APPROVED EQUAL.
- MATERIAL AND SHOP DRAWINGS OF THE REMODELED AREA ARE TO BE SUBMITTED FOR REVIEW BY THE ENGINEER.
- ALL DRY PIPING SHALL BE GALVANIZED.
- SCHEDULE 40 PIPING SHALL BE USED.
- SHOP DRAWINGS, CALCULATIONS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO SUBMITTAL TO THE FIRE MARSHALL.
- A WARRANTY, FOR PRODUCT AND SYSTEM OPERATION SHALL BE PROVIDED FOR ONE YEAR, UPON SYSTEM ACTIVATION AND ACCEPTANCE.
- SPRINKLERS AND PIPING WITH X TO BE REMOVED.



1 FIRE PROTECTION PLAN

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



SALT LAKE CITY NOTES

-FIRE PROTECTION SYSTEMS SHALL HAVE THE PIPING AND ASSOCIATED WIRING EXPOSED FOR INSPECTION BY THE AHJ. THE PIPING AND WIRING MAY BE COVERED AFTER THE FIRE INSPECTION (BY THE AHJ) OF THE SYSTEM HAS BEEN SATISFACTORILY COMPLETED.

-WHEN PIPE PASSES THROUGH A FIRE RATED WALL ASSEMBLY, THE PIPING SHALL HAVE FLEXIBLE COUPLINGS WITH IN 1-FOOT OF EACH SIDE OF THE WALL.

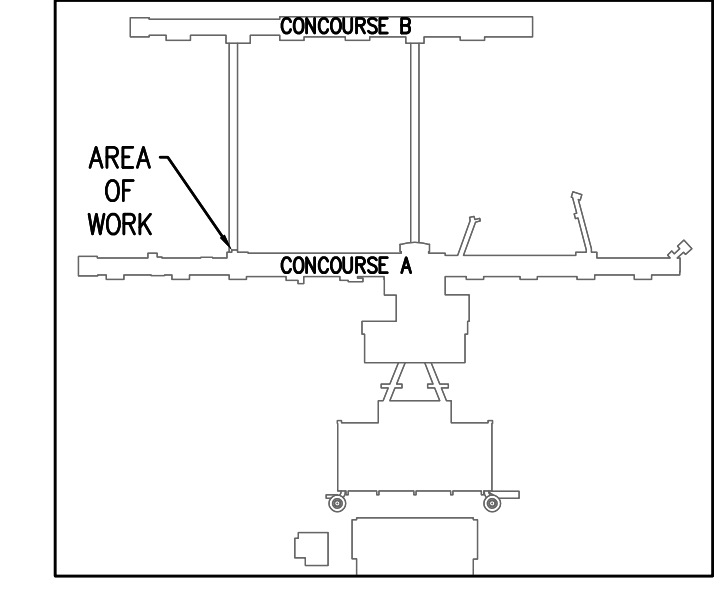
AUTOMATIC FIRE SPRINKLERS AND PIPING

FIRE SPRINKLER SYSTEM EQUIPMENT	MANUFACTURER
SPRINKLERS:	TYCO, RELIABLE, WIKING, OR VICTAULIC
PIPE HANGERS & SUPPORTS:	FM APPROVED, NFPA #13, & LISTED FOR USE IN SEISMIC ZONE
PIPING:	MAINS (>= NPS 2-1/2"): BLACK STEEL SCH. 10. BRANCHLINES: BLACK STEEL SCH. 40.
FITTINGS:	NFPA #13

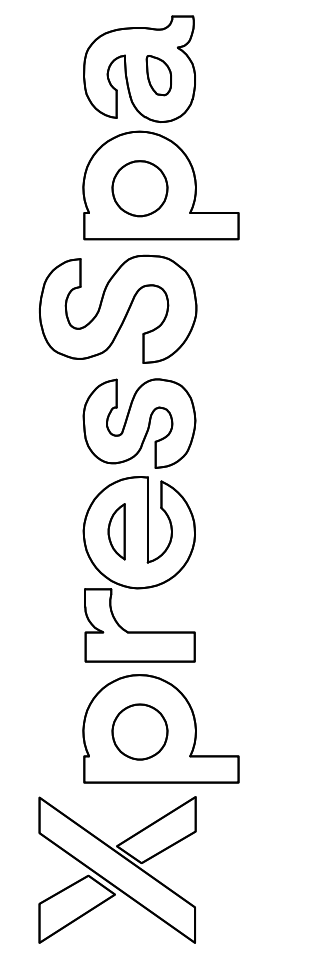
- SUMMARY:** BUILDING REQUIRES A WET SPRINKLER SYSTEM.
- PROVIDE A WET-PIPE SPRINKLER SYSTEM TO SERVE FIRE SPRINKLERS.
 - AUTOMATIC WET FIRE SPRINKLER SYSTEM SHALL BE DESIGNED, AND INSTALLED IN ACCORDANCE WITH NFPA #13, 2016 EDITION AND FM GLOBAL.
 - SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW, PRIOR TO SUBMITTING TO AUTHORITIES HAVING JURISDICTION.
 - FIRE SPRINKLER SYSTEM DESIGN SHALL BE MAINTAINED. HYDRAULIC CALCULATIONS ARE NOT REQUIRED.
 - FIRE SPRINKLERS SHALL BE QUICK RESPONSE LISTED THROUGHOUT. EXTENDED COVERAGE SPRINKLERS ARE NOT ALLOWED. SPRINKLERS SHALL BE K-5.6; FLEXIBLE DROPS ARE TO BE VICTAULIC AH-2 NOT EXCEEDING 36-INCHES IN LENGTH, MAINTAIN 7-INCH BEND RADIUS PER APPROVAL.
 - TESTING CERTIFICATES SHALL BE PREPARED AND PROVIDED IN ACCORDANCE WITH NFPA#13
 - A WARRANTY, FOR PRODUCT AND SYSTEM OPERATION SHALL BE PROVIDED FOR ONE YEAR, UPON SYSTEM ACTIVATION AND ACCEPTANCE.

- END -

KEY PLAN



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



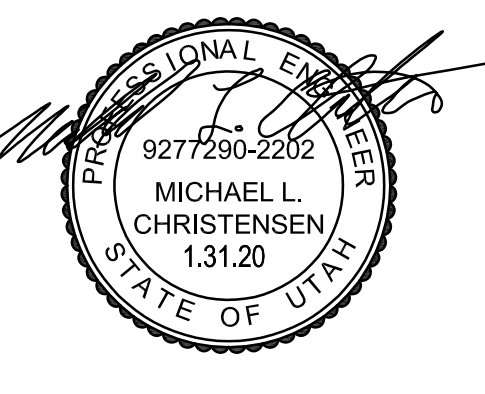
ISSUE INFORMATION

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O: (801) 530-3148
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vbfa project #: 19596



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FIRE PROTECTION PLAN

DRAWN BY:
REVIEWED BY:
SCALE:
As Noted
AUTHORIZED FOR:
100% Submittal

FP111

BID SET

GENERAL NOTES & SPECIFICATIONS

Design Criteria

Applicable Building Code: 2015 International Building Code

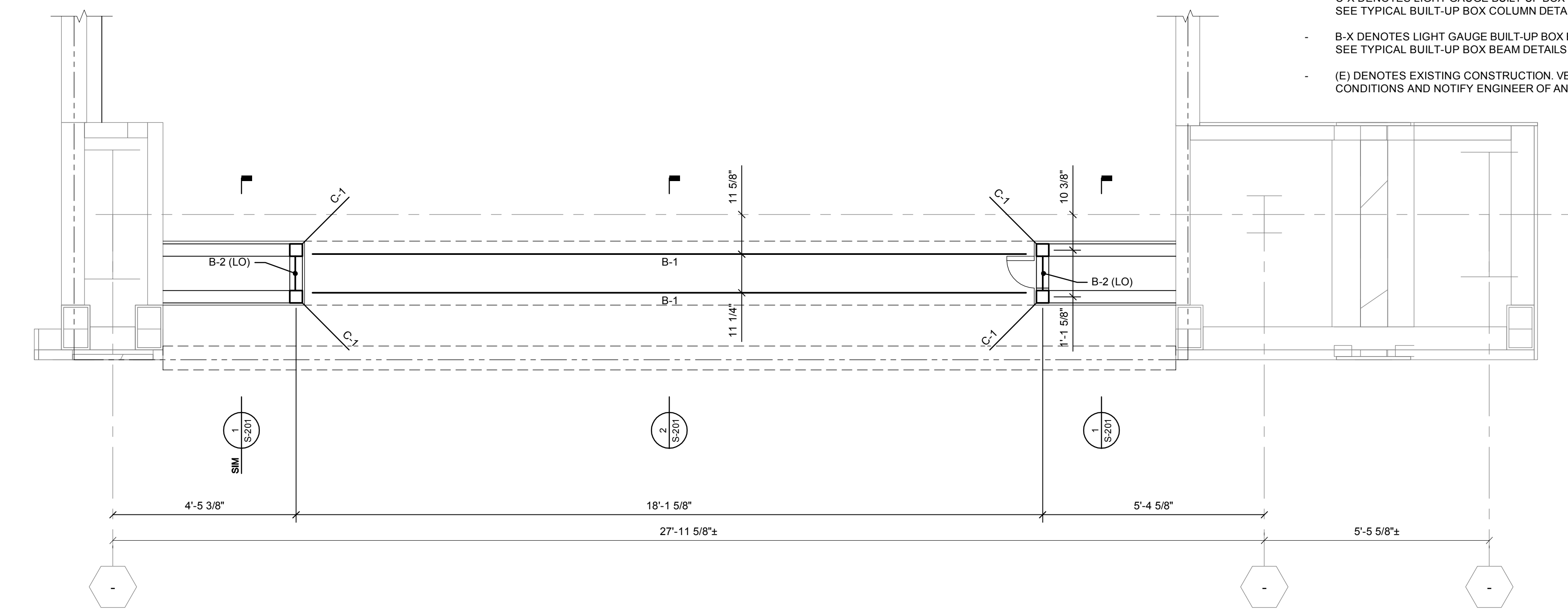
- Design live loads
 - A. Floor loads
 - a. Retail
 - First floor = 100 psf
 - Upper floors = 75 psf
- Seismic
 - $S_s = 1.591$
 - $S_1 = 0.546$
 - $S_{DS} = 1.031$
 - $S_{D1} = 0.546$
 - Seismic importance factor (I_e) = 1.0
 - Risk Category = II
 - Seismic site class = D (presumed)
 - Seismic design category = D

General

- The term General Contractor (G.C.) as used in these documents refers to the Contractor / Construction Manager in responsible charge of the project in terms of coordination, scheduling, subcontractor coordination, etc. This term refers to, but is not limited to, General Contractor, Construction Manager, Design Build Contractor, Prime Contractor, etc. The term is referencing the entity that coordinates the work of other trades.
- The structure or its modifications are designed to be self-supporting and stable after the building or its modifications are fully completed. It is solely the contractor's responsibility to determine erection procedure and sequence and insure the safety of the construction personnel, public, building and its component parts, and adjacent buildings and properties. This includes the addition of whatever temporary or permanent shoring, bracing or needling, etc. that may be necessary to brace new construction, existing walls, and framing to remain so that the structure is braced for wind, seismic, gravity, construction loads, etc. and that no horizontal or vertical settlement or any damage occurs to the adjacent existing structures. Temporary supports shall be maintained in place until permanent supports and/or shoring and bracing are installed. Design of these supports shall be by a registered engineer registered in the state where the project is located in the employ of the contractor.
- Fall protection support shall be provided in accordance with OSHA requirements as required. Such material shall remain the contractor's property after completion of the project.
- It is the contractor's responsibility to enforce all applicable safety codes and regulations during all phases of construction.
- The contractor shall perform all construction for the project in a manner and sequence that are based on accepted industry standards that recognize the interaction of the components that comprise the structure, without causing distress, unanticipated movements or irregular load paths as a result of the construction means and methods employed.
- Construction loads shall not exceed design live loads. The contractor shall be responsible for all design required to support construction equipment used in constructing this project. Shoring and re-shoring is the responsibility of the contractor.
- The existing conditions shown on these documents were based upon existing drawings prepared by Dunn Associates, Inc. dated 9/26/2017. The drawings illustrate the existing structure, structural elements and framing details based on either the original construction drawings and/or site observation. Prior to initiating material procurement and construction, it is the contractor's responsibility to verify existing conditions are consistent with the contract documents. This may require the removal of existing finishes and possible selective demolition to verify the as-built conditions. The contractor is responsible for field verifying all existing conditions; any discrepancies are to be immediately reported to the engineer and architect prior to proceeding with any of the work in question.
- Contractor shall field verify slab on grade floor construction type prior to cutting. Under no circumstances shall the contractor cut a structural floor slab thicker than four (4") inches without prior written approval from Engineer of Record. Notify Engineer of Record of any slab thickness greater than four (4") prior to proceeding with any saw cutting.
- All mechanical and electrical duct work, plumbing, piping, wiring, lighting and all architectural items that need to be removed during the modification of, or reinforcing of, existing structure shall be replaced in kind. The contractor shall keep all existing systems in operation during the construction phase of the project.
- All contractors are required to examine the drawings and specifications carefully, visit the site and fully inform themselves as to all existing conditions and limitations, prior to agreeing to perform the work. Failure to visit the site and familiarize themselves with the existing conditions and limitations will in no way relieve the contractor from furnishing any materials or performing any work in accordance with drawings and specifications without additional cost to the owner.
- Details labeled "Typical Details" on drawings apply to situations occurring on the project that are the same or similar to those specifically detailed. Such details apply whether or not details are referenced at each location. Notify engineer of clarifications regarding applicability of "Typical Details".
- Work these drawings with architectural, mechanical, and electrical drawings.
- Do not scale drawings.
- Any discrepancies between structural and architectural drawings shall be brought to the attention of the architect and structural engineer.
- Should any of the general notes conflict with any details or instructions on plans, or in the specifications, the strictest provision shall govern.
- Shop drawings and submittals:
 - A. These drawings shall be checked and coordinated with other materials and contracts by the general contractor and shop drawings and submittals shall bear the contractor's review stamp with the checker's initials before being submitted to the architect for approval.
 - B. When the fabricator has been authorized to use the architect and engineer's drawings as erection drawings, the fabricator must remove all title blocks, professional seals and any other references to the architect and engineer from that erection drawing. The fabricator's name and title shall be placed on the erection drawings.
 - C. Where dimensions and elevations of existing construction could affect the new construction, it is the contractor's responsibility to make field measurements in time for their incorporation in the shop drawings.

Cold Formed Metal Framing

- The design, installation and construction of cold-formed carbon or low-alloy steel, structural and nonstructural exterior steel framing, shall be in accordance with "The Standard for Cold-Formed Steel Framing-General Provisions, American Iron and Steel Institute" (AISI-general) and AISI-NASPEC.
- System components: with each type of metal framing required, provide manufacturer's standard steel runners (tracks), bracing, clip angles, shoes, reinforcements, fasteners, and accessories as recommended by manufacturer for applications indicated, as needed, to provide a complete metal framing system.
- The supplier shall provide all components and connections relative to size, spacing, gauge location, and anchorage of metal studs shown on architectural and structural drawings. Additional costs associated with an increase in the size, or gauge of the studs from that shown on the drawings are not permitted. The design intent shall be followed and supplier shall provide design for all framing components and connections. Any deviation from this design shall be approved by the architect/engineer. Additional fees required to evaluate a revision in stud size, gauge or spacing are the responsibility of the contractor.
- Design of metal stud framing shown is based on CSJ type (1 5/8" flange) studs with ClarkDietrich Industries section properties and allowable resisting moment capacity. Alternate manufacturer's framing size shall meet the minimum section properties and allowable resisting moment capacity of the members indicated on the design drawings. Additional costs for an increase in stud size or gage is prohibited.
- Contractor shall submit fabrication and erection shop drawings to the engineer for review for all cold formed metal framing components and connections indicated on the contract drawings. Any deviation from this design shall be approved by the architect/engineer and additional review costs shall be the responsibility of the contractor.
- Design of cold-formed metal stud framing shown is based on SSMA studs with section properties and allowable resisting moment capacities as defined in AISI manual, Cold-Formed Steel Design.
- Member sizes given or connections specifically detailed on the drawings shall be considered a minimum requirement.
- All framing members 16 ga. and heavier shall be formed from steel with a minimum yield strength of 50 ksi. All other framing shall be formed from steel with a minimum yield strength of 33 ksi.
- All framing shall be galvanized, G60.
- All connections shall be screwed or welded. Powder driven fasteners are not acceptable for any structural applications.
- Welding: use qualified welders and comply with AWS D1.3 "Structural Welding Code - Sheet Steel".
- Connection methods and fastener sizes/types shall not deviate from that indicates on drawings unless a substitution request is submitted and approved by architect/engineer prior to installation.
- Member web openings shall be positioned a minimum of 10" from connections.
- All welds shall be touched up with zinc-rich paint.
- Fabrication tolerances: fabricate assemblies level, plumb, and true to line to a maximum allowable tolerance variation of 1/8" in 10 feet (1:960) and as follows:
 - A. Spacing: space individual framing members no more than plus or minus 1/8 inch (3mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.
 - B. Squareness: fabricate each cold-formed metal framing assembly to a maximum out-of-square tolerance of 1/8 inch (3mm).
- Install cold-formed metal framing according to ASTM C 1007, unless more stringent requirements are indicated.
- Install supplementary framing, blocking and bracing in metal framing system wherever walls, partitions, and soffits are indicated to support fixtures, equipment, services, and similar work, where type of supplementary support is not otherwise indicated, comply with stud manufacturer's recommendations and industry standards in each case, considering weight or loading resulting from item supported.
- Install horizontal stiffeners in stud system, spaced at not more than 4'-0" on center. Weld at each intersection.
- Where stud system abuts structural columns, beams or walls, anchor ends of stiffeners to supporting structure.
- Install temporary bracing and supports to secure framing and support loads comparable in intensity to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.



Cold Formed Metal Framing (cont.)

- Install headers over wall openings wider than stud spacing. Locate headers above openings as indicated. Fabricate headers of compound shapes indicated or required to transfer load to supporting studs, complete with clip-angle connectors, web-stiffeners, or gusset plates.
 - A. Frame wall openings with not less than a double stud at each jamb or frame as indicated on shop drawings.
 - B. Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with clip angles or by welding, and space jack studs same as full-height wall studs.
- Contractor shall coordinate installation of edge angles with steel erection and metal stud contractor to ensure proper alignment of angles for metal stud installation.
- Galvanized repairs: prepare and repair damaged galvanized coatings on fabricated and installed cold formed metal framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.
- Touch up painting: wire brush, clean, and paint scarred areas, welds, and rust spots on fabricated and installed prime-painted, cold-formed metal framing. Paint framing surfaces with same type of shop paint used on adjacent surfaces.

Submittals

- Contractor shall submit fabrication and erection shop drawings to the engineer for review for all cold formed metal framing components and connections indicated on the contract drawings. Any deviation from this design shall be approved by the architect/engineer and additional review costs shall be the responsibility of the contractor. For all framing components and connections not specifically detailed on the structural drawings including trusses, headers, jamps, etc. Submit shop drawings and calculations stamped by an engineer registered in the appropriate jurisdiction of the project.

Quality Assurance

- Testing: owner will engage a qualified independent testing agency to perform field quality-control testing.
- Field and shop welds will be subject to inspection and testing.
- Testing agency will report test results promptly and in writing to contractor and architect.
- Remove and replace work that does not comply with specified requirements.
- Additional testing and inspecting, at contractor's expense, will be performed to determine compliance of corrected work with specified requirements.

ABBREVIATIONS

A.B.	ANCHOR BOLTS
ADDL.	ADDITIONAL
AFF.	ABOVE FINISH FLOOR
ARCH.	ARCHITECTURAL
B. PL.	BASE PLATE
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
BOT.	BOTTOM
BRDG.	BRIDGING
BRG.	BEARING
BTJ.	BOLTED TIE JOIST
CANTL.	CANTILEVER
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
CL.	CENTERLINE
CLR.	CLEAR
CMU.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
C.Y.	CUBIC YARD
DBA.	DEFORMED BAR ANCHOR
DET.	DETAIL
DIAG.	DIAGONAL
Ø or DIA.	DIAMETER
DJ.	DOUBLE JOIST
DK.	DECK
D.L.	DEAD LOAD
DWG.	DRAWING
DWLS.	DOWELS
EA.	EACH
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEV.	ELEVATOR
E.S.	EACH SIDE
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
EXP.	EXPANSION
(E) or EXIST.	EXISTING
EXT.	EXTERIOR
F/BLDG.	FACE OF BUILDING
F/CONC.	FACE OF CONCRETE
F.D.	FLOOR DRAIN
FIN.	FINISH
FLG.	FLANGE
FLR.	FLOOR
F.S.	FAR SIDE OR FOOTING STEP
FT.	FEET
FTG.	FOOTING
GA.	GAUGE
G.B.	GRADE BEAM
G.C.	GENERAL CONTRACTOR

ABBREVIATIONS

GALV.	GALVANIZED
HD'D.	HEADED
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
INT.	INTERIOR
J/B.	JOIST BEARING
JST.	JOIST
JT.	JOINT
k	KIP
LG.	LONG
LL	LIVE LOAD
(LLH)	LONG LEG HORIZONTAL
(LLV)	LONG LEG VERTICAL
LW	LONG WAY
MAS.	MASONRY
MC	MOMENT CONNECTION
MECH.	MECHANICAL
MFR.	MANUFACTURER
MTL.	METAL
(N)	NEW
(N.I.C.)	NOT IN CONTRACT
N.S.	NEAR SIDE
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
O/O	OUT TO OUT
OPP.	OPPOSITE
PC	PRECAST CONCRETE
PL	PLATE
PLCS.	PLACES
P.S.F.	POUNDS/SQUARE FOOT
P.S.I.	POUNDS/SQUARE INCH
RAD.	RADIUS
R.D.	ROOF DRAIN
REINF.	REINFORCING
REQ'D.	REQUIRED
RET.	RETAINING
SECT.	SECTION
SIM.	SIMILAR TO
S.O.G.	SLAB ON GRADE
SP.	SPACES
SQ.	SQUARE
STIFF.	STIFFENER
STL.	STEEL
STRUCT.	STRUCTURAL
SW	SHORT WAY
SYM.	SYMMETRICAL
T/	TOP OF
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W.P.	WORK POINT
W.W.F.	WELDED WIRE FABRIC
W/	WITH

STOREFRONT FRAMING PLAN

1/2"=1'-0"

NOTES:

- EXISTING FLOOR CONSTRUCTION: COMPOSITE CONCRETE SLAB (5 1/4" TOTAL THICKNESS).
- TOP OF (E) FLOOR ELEVATION = 0'-0".
- SEE THIS SHEET FOR GENERAL NOTES
- SEE SHEET S-201 FOR TYPICAL DETAILS.
- C-X DENOTES LIGHT GAUGE BUILT-UP BOX COLUMN. SEE TYPICAL BUILT-UP BOX COLUMN DETAIL ON SHEET S-201.
- B-X DENOTES LIGHT GAUGE BUILT-UP BOX BEAM. SEE TYPICAL BUILT-UP BOX BEAM DETAILS ON SHEET S-201.
- (E) DENOTES EXISTING CONSTRUCTION. VERIFY ALL EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

FRCH NELSON
A NELSON BRAND

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513 241 3000

XpresSpa

ISSUE INFORMATION

01.28.2020
REVISIONS

NELCO ARCHITECTURE, INC.



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GENERAL NOTES
& STOREFRONT
FRAMING PLAN

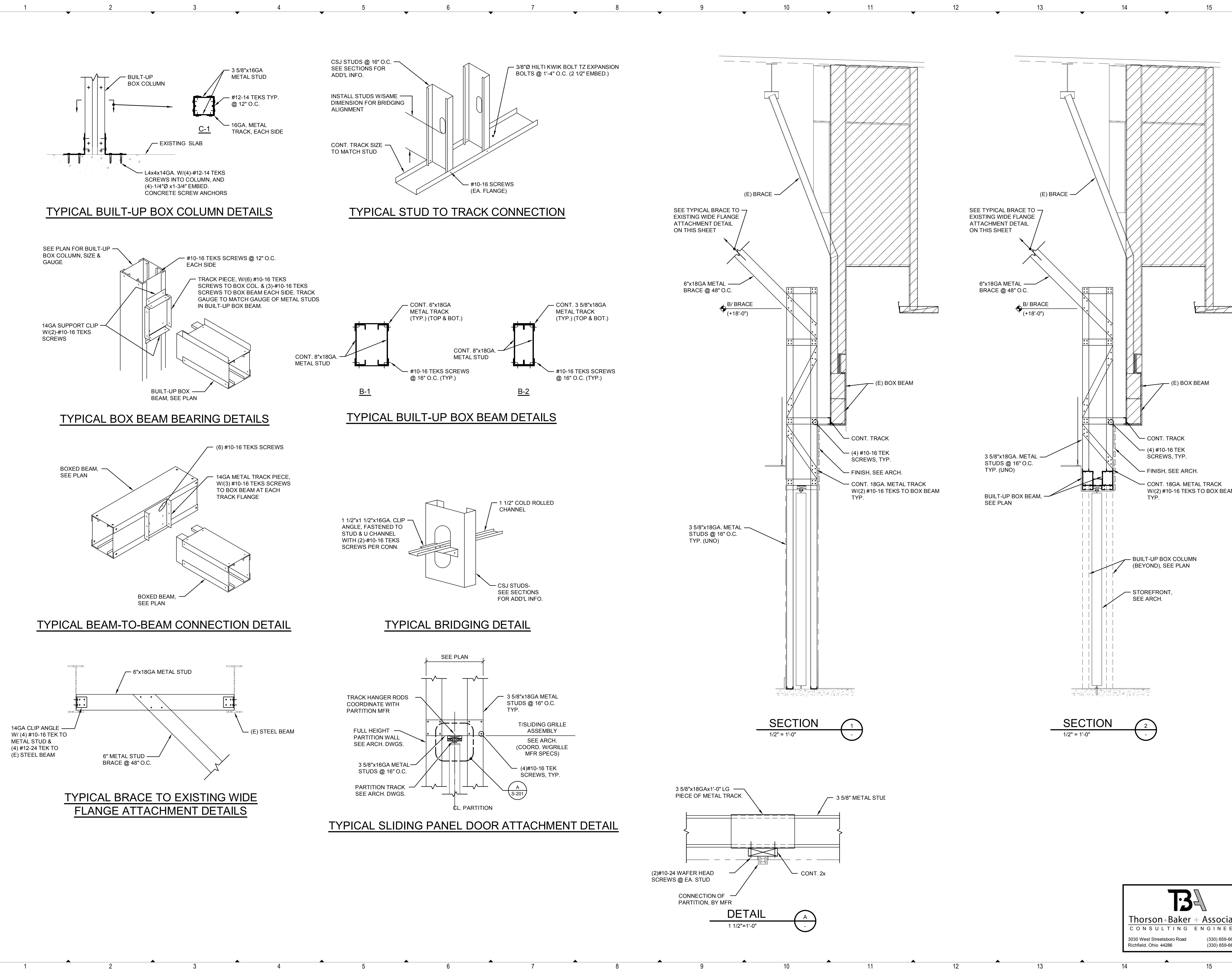
DRAWN BY:
TBA
REVIEWED BY:
TBA
SCALE:
AS NOTED

AUTHORIZED FOR:
100% Submittal

S-101

TBA
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