723 MAIN UNIT 1 - PERMIT

ABBREVIATIONS

FIGURE

ANCHOR BOLT

PLUMBING

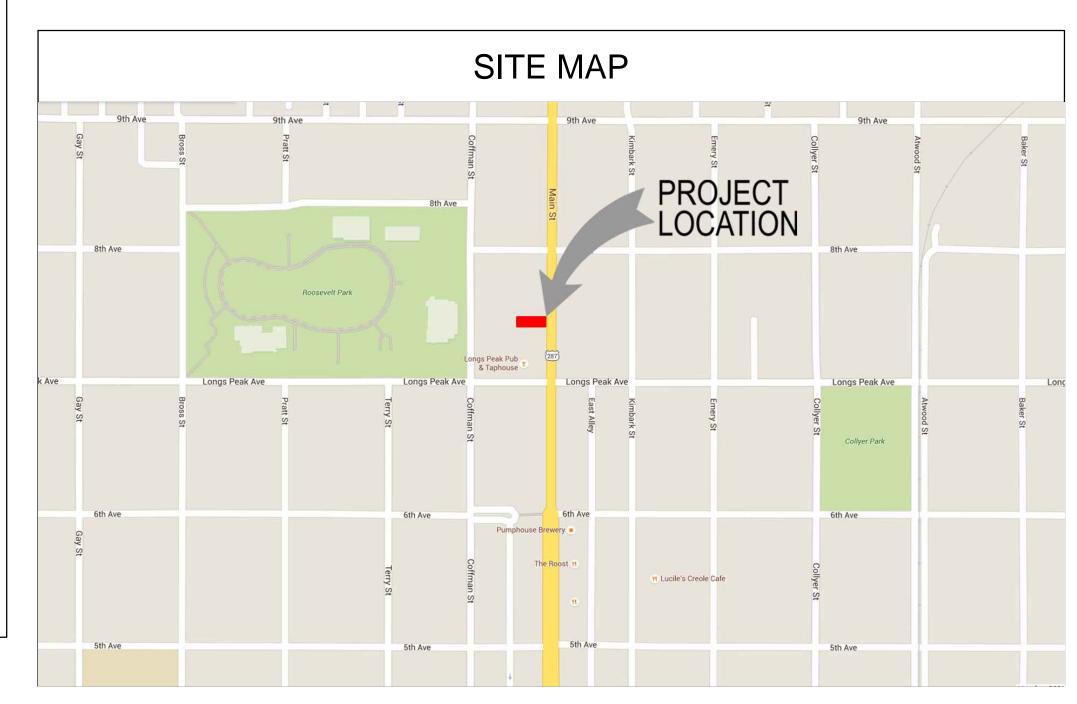
AB	ANCHOR BOLT	FIG	FIGURE	PLBG	PLUMBING
AC	AIR CONDITIONING	FIN	FINISH	PLYWD	PLYWOOD
ACOUS	ACOUSTICAL	FIX	FIXTURE	PNEU	PNEUMATIC
ACT	ACOUSTICAL CEILING TILE	FL	FLOW LINE	POL	POLISHED
AD	AREA DRAIN, ACCESS DOOR	FLG	FLASHING	PR	PAIR
ADD	ADDENDUM	FLR	FLOOR	PREFAB	PREFABRICATED
ADJ	ADJACENT, ADJUSTABLE	FLUOR	FLUORESCENT	PREFIN	PREFINISHED
AFF	ABOVE FINISHED FLOOR	FLEX	FLEXIBLE	PRIM	PRIMARY
ALLM	ALUMINUM	FOC	FACE OF CONCRETE	PSF	POUNDS PER SQUARE FOOT
ALT	ALTERNATE	FOF	FACE OF FINISH	PSI	POUNDS PER SQUARE INCH
ANOD	ANODIZED	FOM	FACE OF MASONRY	PT	POINT
APPROX	APPROXIMATE	FOS	FACE OF STUDS	PTN	PARTITION
ARCH	ARCHITECTURAL	FT	FOOT (FEET)	PVC	POLYVINYL CHLORIDE
ASPH	ASPHALT	FTG	FOOTING	PVMT	PAVEMENT
AUTO	AUTOMATIC	FURN	FURNISH(ED)		
AUX	AUXILIARY	FURR	FURRED(ING)	QTY	QUANTITY
A/V	AUDIO/VISUAL	FUT	FUTURE	RAD	RADIUS
AVG	AVERAGE	G	GAS	RD	ROOF DRAIN ROAD
BD	BOARD	GA	GAUGE	RE	REFERENCE
BET	BETWEEN	GAL	GALLON	RECPT	RECEPTACLE
BITUM	BITUMINOUS	GALV	GALVANIZED	REFR	REFRIGERATOR
BLDG	BUILDING	GB	GRAB BAR	REINF	REINFORCED
BLKG	BLOCKING	GC	GENERAL CONTRACTOR	REM	REMOVE
BM	BENCHMARK, BEAM	GEN	GENERATOR	REQ'D	REQUIRED
BOT	BOTTOM	GI	GALVANIZED IRON	RESIL	RESILIENT
BRG BUR	BEARING BUILT-UP ROOF	GL	GLASS	REV	REVISION(S), REVISED
BUK	BUILT-OF ROOF	GYP	GYPSUM	RFL	REFLECTED
CAB	CABINET	HAS	HEADED ANCHOR STUD	RH	RIGHT HAND
CAP	CAPACITY	HB	HOSE BIB	RM	ROOM
CEM	CEMENTITOUS	HC	HOLLOW CORE, HANDICAPPED	RO	ROUGH OPENING
CER	CERAMIC	HDR	HEADER	RVS	REVERSE (SIDE)
CFM	CUBIC FEET PER MINUTE	HDWR	HARDWARE	sc	SOLID CORE
CIP	CAST IN PLACE	HM	HOLLOW METAL	SEC	SECTION SECTION
CIRC	CIRCUMFERENCE	HORIZ	HORIZONTAL	SF	STORE FRONT
CJ	CONTROL JOINT	HT	HEIGHT	SHT	SHEET
CK	CAULKING	HVAC	HEATING, VENTILATING AND A/C	SHTH	SHEATHING
CL	COLUMN LINE	''''	112,111110, 12,11112,111110,11112,7110	SIM	SIMILAR
C.L. C/L	Centerline	ID	INSIDE DIAMETER	SNT	SEALANT
CLG	CENTERLINE CEILING	IN	INCHES	SOFF	SOFFIT
CLOS	CLOSET	INCL	INCLUDE(D)	SPCG	SPACING
CM	CENTIMETERS	INSUL	INSULATION	SPRT	SUPPORT
CMU	CONCRETE MASONRY UNIT	INT	INTERIOR	SPECS	SPECIFICATIONS
CO	CLEAN OUT	INTEG	INTEGRAL	SPKL	SPRINKLER
COL	COLUMN	INTMED	INTERMEDIATE	SQ	SQUARE
CONC	CONCRETE			SS	CTAINI FOO CTEFI
1 00110	CONCILLE	l JAN	JANITOR	33	STAINLESS STEEL
CONF	CONFERENCE	JAN JST	JANITOR JOIST	STA	STATION
		JAN JST JT	JOIST	1	
CONF CONSTR CONT	CONFERENCE CONSTRUCTION CONTINUOUS	JST		STA	STATION
CONF CONSTR CONT CONTR	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR	JST	JOIST	STA STD	STATION STANDARD
CONF CONSTR CONT CONTR CORR	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED	JST JT KO	JOIST JOINT KNOCKOUT	STA STD STL	STATION STANDARD STEEL
CONF CONSTR CONT CONTR CORR CPT	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET	JST JT KO L	JOIST JOINT KNOCKOUT LENGTH	STA STD STL STRUCT	STATION STANDARD STEEL STRUCTURAL
CONF CONSTR CONT CONTR CORR CPT CT	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE	JST JT KO L LAV	JOIST JOINT KNOCKOUT LENGTH LAVATORY	STA STD STL STRUCT SUSP	STATION STANDARD STEEL STRUCTURAL SUSPENDED
CONF CONSTR CONT CONTR CORR CPT CT CTR	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER	JST JT KO L LAV LDR	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER	STA STD STL STRUCT SUSP SYM SYS	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM
CONF CONSTR CONT CONTR CORR CPT CT	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE	JST JT KO L LAV LDR LH	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND	STA STD STL STRUCT SUSP SYM SYS	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD
CONF CONSTR CONTR CORR CPT CT CTR CU	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC	JST JT KO L LAV LDR LH LIN	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR	STA STD STL STRUCT SUSP SYM SYS T	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING	JST JT KO L LAV LDR LH	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND	STA STD STL STRUCT SUSP SYM SYS T T&B TEM	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE	JST JT KO L LAV LDR LH LIN LT	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE
CONF CONSTR CONT CONTR CORR CPT CT CT CTR CU DAMP DBL DEG	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE	JST JT KO L LAV LDR LH LIN LT	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE
CONF CONSTR CONTR CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION	JST JT KO L LAV LDR LH LIN LT MAS MATL	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT
CONF CONSTR CONT CONTR CORR CPT CT CT CTR CU DAMP DBL DEG	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK
CONF CONSTR CONT CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD
CONF CONSTR CONT CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT DIA	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE
CONF CONSTR CONT CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF STEEL
CONF CONSTR CONTR CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF STEEL TOP OF SLAB
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS TOSL	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF STEEL
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF STEEL TOP OF WALL TRANSFER
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THLD TO TOC TOS TOSL TOW TRANS	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF SLAB TOP OF WALL
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THLD TO TOC TOS TOSL TOW TRANS TS TV	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E)	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF SLAB TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL MUL	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL MUL N	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED
CONF CONSTR CONTR CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION JOINT	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL MUL N NIC NO NOM	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED
CONF CONSTR CONTR CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ EL	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION JOINT ELEVATION	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL MUL N NIC NO	JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF SLAB TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED
CONF CONSTR CONT CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ EL ELEC	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL MUL N NIC NO NOM	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED
CONF CONSTR CONT CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ EL ELEC EMER EQ EQUIP	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL MUL N NIC NO NOM NTS	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE
CONF CONSTR CONTR CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ EL ELEC EMER EQ EQUIP EXG	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MEMB MFG MIN MISC MO MTD MTL MUL N NIC NO NOM NTS OC OF	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER	STA STD STL STRUCT SUSP SYM SYS T T&B TEM TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION
CONF CONSTR CONTR CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ EL ELEC EMER EQ EQUIP EXG EXH	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL MUL N NIC NO NOM NTS OC OF OH	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VENT	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF SLAB TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL
CONF CONSTR CONTR CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ EL ELEC EMER EQ EQUIP EXG EXH EXP	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST EXPANSION, EXPOSED	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MEMB MFG MIN MISC MO MTD MTL MUL N NIC NO NOM NTS OC OF OPNG	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VERT VOL	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME
CONF CONSTR CONTR CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ EL ELEC EMER EQ EQUIP EXG EXH	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MEMB MFG MIN MISC MO MTD MTL MUL N NIC NO NOM NTS OC OF OH	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VERT VOL VTR	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME VENT THROUGH ROOF
CONF CONSTR CONTR CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIW DN DR DS DTL DWG (E) EA EB EJ ELEC EMER EQ EQUIP EXG EXH EXP EXT	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST EXPANSION, EXPOSED EXTERIOR	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MEMB MFG MIN MISC MO MTD MTL MUL N NIC NO NOM NTS OC OF OPNG	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VERT VOL VTR W W/	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME VENT THROUGH ROOF
CONF CONSTR CONTR CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ EL ELEC EMER EQ EQUIP EXG EXH EXP EXT FA	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXPANSION, EXPOSED EXTERIOR FIRE ALARM	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MEMB MFG MIN MISC MO MTD MTL MUL N NIC NOM NTS OC OF OPPG OPP	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING OPPOSITE	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VENT VERT VOL VTR W W/ WC	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME VENT THROUGH ROOF
CONF CONSTR CONTR CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ EL ELEC EMER EQ EQUIP EXG EXH EXP EXT FA FAC	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST EXPANSION, EXPOSED EXTERIOR FIRE ALARM FIRE ALARM FIRE ALARM	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MEMB MFG MIN MISC MO MTD MTL MUL N NIC NOM NTS OC OF OPNG OPP PT PAR	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING OPPOSITE PAINT PARALLEL	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VERT VOL VTR W W/ WC WD	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME VENT THROUGH ROOF WEST, WIDE WITH WATERCLOSET WOOD
CONF CONSTR CONTR CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIN DN DR DS DTL DWG (E) EA EB EJ ELEC EMER EQ EQUIP EXG EXH EXP EXT FA FAC FBO	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST EXPANSION, EXPOSED EXTERIOR FIRE ALARM FI	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MISC MO MTD MTL MUL N NIC NOM NTS OC OF OPP PT PAR PC	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING OPPOSITE PAINT PARALLEL PRECAST	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VERT VOL VTR W WC WD WDO	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME VENT THROUGH ROOF WEST, WIDE WITH WATERCLOSET WOOD WINDOW
CONF CONSTR CONTR CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ ELEC EMER EQ EQUIP EXG EXH EXP EXT FA FAC FBO FD	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST EXPANSION, EXPOSED EXTERIOR FIRE ALARM FIRE DAMPER	JST JT KO L LAV LDR LH LIN LT MAS MATL MAX MECH MED MISC MO MTD MTL MUL N NIC NOM NTS OC OF OPP PAR PC PEN	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING OPPOSITE PAINT PARALLEL PRECAST PENETRATION	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VERT VOL VTR W WC WD WDO W.O.	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME VENT THROUGH ROOF WEST, WIDE WITH WATERCLOSET WOOD WINDOW WHERE OCCURS
CONF CONSTR CONTR CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIN DN DR DS DTL DWG (E) EA EB EJ ELEC EMER EQ EQUIP EXG EXH EXP EXT FA FAC FBO	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST EXPANSION, EXPOSED EXTERIOR FIRE ALARM FIRE ALARM FIRE ALARM FIRE ALARM FIRE ALARM FIRE DAMPER FOUNDATION	JST JT KO L LAV LDR LH LIN LT MAS MACH MED MFG MIN MISC MTD MTL MO NTS OC OF OPNG OPP PAR PC PERF	JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING OPPOSITE PAINT PARALLEL PRECAST PENETRATION PERFORATED	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VENT VERT VOL VTR W W/ WC WD W/O W/O	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME VENT THROUGH ROOF WEST, WIDE WITH WATERCLOSET WOOD WINDOW WHERE OCCURS WITHOUT
CONF CONSTR CONTR CONTR CORR CPT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ ELEC EMER EQ EQUIP EXG EXH EXP EXT FA FAC FBO FDN FEC	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST EXPANSION, EXPOSED EXTERIOR FIRE ALARM FIRE ALARM FIRE ALARM CABINET FURNISHED BY OTHER FOUNDATION FIRE EXTINGUISHER CABINET	JST JT KO L LAV LDR LH LIN LT MASTL MACH MED MISC MO MTD MTL MUL N NIC NOM NTS OC OF OPP PT PAR PC PERIM	JOIST JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING OPPOSITE PAINT PARALLEL PRECAST PENETRATION PERFORATED PERIMETER	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VERT VOL VTR W W/ WC WD W/O W/O W/O W/O	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME VENT THROUGH ROOF WEST, WIDE WITH WATERCLOSET WOOD WINDOW WHERE OCCURS WITHOUT WATERPROOFING
CONF CONSTR CONTR CONTR CORR CPT CT CT CTR CU DAMP DBL DEG DEMO DEPT DIA DIAG DIM DIV DN DR DS DTL DWG (E) EA EB EJ ELEC EMER EQ EQUIP EXG EXH EXP EXT FA FAC FBO FDN	CONFERENCE CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR, CORRUGATED CARPET CERAMIC TILE COUNTER CUBIC DAMPROOFING DOUBLE DEGREE DEMOLISH, DEMOLITION DEPARTMENT DIAMETER DIAGONAL DIMENSIONS DIVISION DOWN DOOR DOWNSPOUT DETAIL DRAWING EXISTING EACH EXPANSION BOLT EXPANSION JOINT ELEVATION ELECTRICAL EMERGENCY EQUAL EQUIPMENT EXISTING EXHAUST EXPANSION, EXPOSED EXTERIOR FIRE ALARM FIRE ALARM FIRE ALARM FIRE ALARM FIRE ALARM FIRE DAMPER FOUNDATION	JST JT KO L LAV LDR LH LIN LT MAS MACH MED MFG MIN MISC MTD MTL MO NTS OC OF OPNG OPP PAR PC PERF	JOINT KNOCKOUT LENGTH LAVATORY LEADER LEFT HAND LINEAR LIGHT MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL MULLION NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING OPPOSITE PAINT PARALLEL PRECAST PENETRATION PERFORATED	STA STD STL STRUCT SUSP SYM SYS T T&B TEMP T&G THERM THK THLD TO TOC TOS TOSL TOW TRANS TS TV TYP UNFIN UNO V VAR VCT VENT VENT VERT VOL VTR W W/ WC WD W/O W/O	STATION STANDARD STEEL STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM TREAD TOP AND BOTTOM TEMPERED TEMPERATURE TONGUE AND GROOVE THERMOSTAT THICK THRESHOLD TOP OF CONCRETE TOP OF STEEL TOP OF STEEL TOP OF SLAB TOP OF WALL TRANSFER STEEL TUBING TELEVISION TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VOLT VARIES VINYL COMPOSITION TILE VENTILATION VERTICAL VOLUME VENT THROUGH ROOF WEST, WIDE WITH WATERCLOSET WOOD WINDOW WHERE OCCURS WITHOUT

PLAM PLASTIC LAMINATE

WWF

WELDED WIRE FABRIC

GRAPHIC SYMBOLS 4 CONCRETE ROOM/SPACE IDENTIFICATION OFFICE -ROOM NAME 301 ROOM NUMBER UNDISTURBED EARTH OR COMPACTED FILL NOTE IDENTIFICATION COMPACTED FILL — KEY NOTE POROUS FILL (GRAVEL) DRAWING SECTION IDENTIFICATION - DRAWING NUMBER SHEET NUMBER ALUMINUM BRICK INTERIOR ELEVATION IDENTIFICATION — DRAWING NUMBER CONCRETE MASONRY #### — SHEET NUMBER **ENLARGED DETAIL IDENTIFICATION** GLASS (IN ELEVATION) - DRAWING NUMBER - SHEET NUMBER BATT INSULATION - AREA OF DRAWING RIGID INSULATION TO BE ENLARGED ARCHITECTURAL FINISH IDENTIFICATION ACOUSTICAL TILE — FINISH TYPE METAL STUD PARTITION TYPE IDENTIFICATION - PARTITION TYPE FINISH WOOD **RE: PARTITION TYPE SCHEDULE EQUIPMENT IDENTIFICATION** EQUIPMENT ID NUMBER PLYWOOD STRUCTURAL GRID - COLUMN NUMBER -COLUMN REFERENCE GUIDE — COLUMN LETTER DOOR IDENTIFICATION - DOOR NUMBER



PROJECT TEAM

ROYALTY ARRANGEMENTS 723 MAIN STREET, UNIT 1 LONGMONT, CO 80501 CONTACT: YADIRA LERMA

COLORADO CONSTRUCTION SERVICES

GENERAL CONTRACTOR

CONTACT: SCOTT COBB

720-271-1726

SCOTTCOBB721@YAHOO.COM

863 SANTA FE DRIVE DENVER CO 80204 TED@TLSARCHITECT.COM 303-875-8719

> MECHANICAL / PLUMBING ENGINEER JK MECHANICAL PO BOX 1554 BUENA VISTA, CO 81211 CONTACT: JODI / KIRK ROBERTS JODI.ROBERTS@GMAIL.COM 303.952.0244

ELECTRICAL ENGINEER LW ENGINEERING, LLC ARCHITECT THEODORE SCHULTZ, ARCHITECT, LLC LAURA WEILERT, PE

LWEILERT@EARTHLINK.NET 303-718-6472

SUBCONTRACTORS

HOME RUN HEATING & COOLING

PLUMBING / CONCRETE HOME RUN HEATING & COOLING

HVAC BALANCING LAWRENCE FINN & ASSOCIATES

ELECTRICAL BREAKERS ELECTRIC

SHEET INDEX

GENERAL

A0.0 **COVER PAGE** CODE REVIEW PLAN A0.1 ACCESSIBILITY DETAILS A0.5

A0.7 ARCHITECTURAL SPECIFICATIONS A0.8 ARCHITECTURAL SPECIFICATIONS A0.9 ARCHITECTURAL SPECIFICATIONS

ARCHITECTURAL

FLOOR PLAN A1.1

WALL AND CEILING SECTIONS WALL AND CEILING SECTIONS

ELECTRICAL

ELECTRICAL GENERAL NOTES, LEGEND & ONE-LINE DIAGRAM

ELECTRIC POWER PLAN ELECTRIC LIGHTING PLAN E2.0 LOW VOLTAGE PLAN

MECHANICAL

MECHANICAL COVER SHEET & SCHEDULES M1.1 MECH & HVAC PLANS

PLUMBING

PLUMBING COVER SHEET P1.1 SEWER ISOMETRIC PLAN SEWER PLAN

WATER PLAN

Theodore Schultz, Architect, LLC.

863 Santa Fe Drive Denver, CO 80204

COVER

FIRE HOSE VALVE FHWS FLAT HEAD WOOD SCREW

ARCHITECTURAL GENERAL NOTES:

- 1. DO NOT SCALE OFF THE DRAWINGS, REFER TO DIMENSIONS INDICATED ON THE DRAWINGS. REFER ALL DISCREPANCIES, INCONSISTENCIES AND DIMENSIONAL CLARIFICATIONS TO THE ARCHITECT. ALL ROOM SIZES ON PLANS ARE APPROXIMATE. REFER TO DIMENSIONS FOR ACTUAL SIZES.
- THE DRAWINGS. SPECIFICATIONS AND ADDENDA ARE COMPLIMENTARY AND WHAT IS INDICATED IN ONE SHALL APPLY TO ALL, REFER CONFLICTING REQUIREMENTS TO THE ARCHITECT FOR CLARIFICATION. THE MOST RESTRICTIVE REQUIREMENTS SHALL APPLY.
- THE CONTRACTOR MUST CHECK ALL DIMENSIONS, FRAMING CONDITIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT MUST BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE JOB PRIOR TO THE BIDDING. ALL WORK INCIDENTAL TO THE COMPLETION OF THE JOB BUT NOT NECESSARILY SPECIFIED ON THE DRAWINGS IS TO BE CONSIDERED PART OF THE CONTRACT. SUCH WORK MAY INCLUDE, BUT IS NOT LIMITED TO, INSTALLING BARRICADES AROUND UNFINISHED WORK, AND CLEANING UP CONSTRUCTION DEBRIS DAILY.
- 5. IT WILL BE ASSUMED THAT EACH TRADE HAS ACCEPTED THE QUALITY OF THE WORK OF OTHERS UPON WHICH HIS WORK MUST BE APPLIED AND ACCEPTS RESPONSIBILITY IF THEIR WORK IS UNACCEPTABLE BECAUSE OF IT.
- 6. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK WHICH HE BELIEVES TO BE CONTRARY TO HIS KNOWLEDGE OF GOOD CONSTRUCTION STANDARDS, AND SHALL NOT USE ANY SUB-STANDARD MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND/OR OMISSIONS OF ALL HIS EMPLOYEES AND OTHERS INVOLVED IN THE COMPLETION OF THE WORK CONTRACTED. ALL WORK SHALL BE THE HIGHEST INDUSTRY STANDARD LEVEL.
- THE CONTRACTOR SHALL KEEP THE OWNER INFORMED OF ALL EMPLOYEES,
- SUPPLIERS AND OTHERS WHO HAVE LIEN RIGHTS AGAINST THE PROJECT. 9. THE CONTRACTOR SHALL INFORM OWNER OF HIS WORK SCHEDULE AND ANY
- ANTICIPATED CHANGES THAT MAY OCCUR. ALL WORK, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A MINIMUM OF
- ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION UNLESS NOTED OTHERWISE.
- 11. TRANSPORT ALL MATERIALS REMOVED FROM THE PROJECT AND DISPOSE OF LEGALLY OFF THE SITE.
- 12. LEAVE THE SITE IN A COMPLETELY SAFE AND CLEAN CONDITION.
- INSTALL NEW MATERIALS AS SPECIFIED AND AS PER MANUFACTURERS RECOMMENDATIONS. ALL WORKMANSHIP IS TO BE OF THE HIGHEST LEVEL EXPECTED BY EACH TRADE. SLOPPY WORKMANSHIP WILL NOT BE ACCEPTED AND WILL HAVE TO BE
- 14. TO THE FULLEST EXTENT PERMITTED BY LAW. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, ARCHITECT, ARCHITECT'S CONSULTANTS, AND AGENTS AND EMPLOYEES OF ANY OF THEM FROM AND AGAINST CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES, ARISING OR RESULTING FROM PERFORMANCE OF THE WORK.

- 15. THE CONTRACTOR SHALL PROMPTLY CORRECT WORK FAILING TO CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. WHETHER OBSERVED BEFORE OR AFTER SUBSTANTIAL COMPLETION AND WHETHER OR NOT FABRICATED. INSTALLED OR COMPLETED.
- 16. BEFORE ORDERING ANY NEW ITEMS SUCH AS WINDOWS, EQUIPMENT, ETC., MAKE SURE THE SPACE AVAILABLE WILL WORK WITH THE SIZE OF THESE ITEMS.
- 17. THE WORK IS TO BE EXECUTED UNDER ONE PRIME CONTRACT COVERING ALL WORK IN CONNECTION WITH GENERAL WORK. THE GENERAL CONTRACTOR SHALL BE THE PRIME
- 18. THE GENERAL AND SUB. CONTRACTORS SHALL INCLUDE IN THEIR BIDS THE COST OF ALL PERMITS, LICENSES, FEES AND ASSESSMENTS APPLICABLE TO THEIR RESPECTIVE TRADE AS REQUIRED BY GOVERNING AUTHORITIES. THE COSTS OF ANY SPECIAL FEES AND ASSESSMENTS SHALL BE PAID BY THE RESPECTIVE CONTRACTORS.
- 19. A DETAIL, SECTION, ELEVATION, ETC. REFERENCE MAY BE INDICATED ONLY ONCE ON ANY DRAWING, BUT IS TO BE USED AT ALL LIKE AND SIMILAR CONSTRUCTION CONDITIONS. REFER ALL CLARIFICATIONS TO THE ARCHITECT.
- 20. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE EDITION OF THE INTERNATIONAL BUILDING CODE ADOPTED BY THE LOCAL JURISDICTION, AND ANY OTHER REGULATING AGENCIES THAT HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
- 21. PROVIDE SEALANT BETWEEN ALL DISSIMILAR AND SIMILAR JOINTS WHETHER SHOWN
- 22. ALL INSULATING MATERIALS SHALL HAVE A FLAME SPREAD INDEX TO NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450. MINERAL FIBER BLANKET/BATT. FACED & NOT FACED SHALL HAVE MAX FLAME SPREAD OF 25 AND
- 23. INTERIOR WALL AND CEILING FINISH MATERIALS TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723 WITH A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450.
- 24. THE ARCHITECTS INVOLVEMENT DURING CONSTRUCTION IS IN THE BEST INTEREST OF THE OWNER, THE CONTRACTOR, THE ARCHITECT, AND THE PUBLIC. IN ANY PROJECT, ISSUES ARISE DURING CONSTRUCTION THAT REQUIRE THE ARCHITECT. NO SET OF PLANS AND SPECIFICATIONS CAN BE PERFECT, OR COMPLETE. EVERY SET REQUIRES SOME INTERPRETATION. THE IMPACT OF CONSTRUCTION DEFECTS CAN BE SUBSTANTIALLY MITIGATED IF THE ARCHITECT IS AVAILABLE TO RESOLVE PROBLEMS AND TO OBSERVE CONSTRUCTION, TO MINIMIZE THE CONSEQUENCES OF CHANGES THAT ARE UNINTENTIONALLY OR INADVERTENTLY INTRODUCED TO THE PROJECT. CONDITIONS THAT ARISE WITH ALTERATIONS TO EXISTING BUILDINGS, AND TO RESOLVE DISCREPANCIES, CONFLICTS OR OMISSIONS IN THE PLANS AND SPECIFICATIONS.

BUILDING OWNER GENERAL NOTES:

- A) PROVIDE PROPER SEAL AT ALL FLOOR PENETRATIONS. DO NOT DRILL ANY HOLES THROUGH THE EXISTING 2x12 CEILING JOISTS
- PROVIDE CONDUIT/UNISTRUT ROUTING PLAN TO ALL PARTIES FOR REVIEW.
- D) PROVIDE PROTECTION FOR ALL EXISTING FINISHES THROUGHOUT CONSTRUCTION. E) ALL NOISY OR DISRUPTIVE WORK TO BE COORDINATED WITH OWNER, INCLUDING PHASING OF SCHEDULE FOR LEAST DISRUPTION TO NEIGHBORS.
- F) ALL CONSTRUCTION DEBRIS REMOVAL AND DELIVERY OF NEW CONSTRUCTION MATERIALS SHALL BE THROUGH THE ALLEY. PROTECT SURFACES AS NECESSARY. G) DO NOT PROP OPEN DOORS.
- H) CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT. WITH GYPSUM COVERING OR FIRE RETARDANT (EXPOSED) BLOCKING.
- I) ALL DIMENSIONS ARE BASED OFF OF FACE OF FINISH OR GRID LINES. J) ALL GYP. SOFFITS AND CEILING TO RECEIVE LEVEL 5 SMOOTH FINISH WITH 90 DEGREE
- K) MAINTAIN FIRE RATING AT EXISTING CORE WALLS.
- L) ALL PENETRATIONS UNDER FLOOR MUST BE SEALED AND REQUIRED FIRE RATINGS MAINTAINED. M) PATCH MASONRY ON INTERIOR & EXTERIOR AT LOCATIONS OF NEW PENETRATION.
- O) THIS DRAWING PROVIDES AN OUTLINE OF THE EXTENT OF WORK AND DOES NOT DETAIL CONSTRUCTION AND BUILDING SYSTEMS THAT MAYBE ENCOUNTERED DURING CONSTRUCTION. THE GENERAL CONTRACTOR AND RELEVANT SUBCONTRACTORS SHALL SURVEY EXISTING CONDITIONS PRIOR TO FINALIZING PRICING TO DETERMINE THE FULL EXTENT OF CONSTRUCTION REQUIRED AND COORDINATE WITH THE ARCHITECT AND
- P) ALL THROUGH WALL PENETRATIONS OF RATED WALLS TO BE FIRESTOPPED WITH UL system W-L-1164

N) GC TO CONSIDER FLOOR SLOPE PRIOR TO EQUIPMENT PLACEMENT AND CONSTRUCTION.

- Q) CARE SHALL BE TAKEN TO ENSURE CONDUIT AND WIRING SHALL BE NEAT, TIDY, INSTALLED PLUMB, LEVEL AND PARALLEL R) REFER TO REFLECTED CEILING NOTES ON SHEET A1.1 AND MEP DRAWINGS FOR
- ADDITIONAL INFORMATION. S) ANY CONFLICTS BETWEEN ARCHITECTURAL AND MEP DRAWINGS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF WORK. T) REFER TO ENGINEERING DRAWINGS FOR ALL LIGHTING SPECIFICATIONS. U) ALL ADJ. LIGHT FIXTURES TO BE AIMED PRIOR TO SUBSTANTIAL COMPLETION. SCHEDULE
- AND COORDINATE WITH ARCHITECT. V) EXPOSED STRUCTURE TO REMAIN WITH EXISTING FINISH. W) ALL EXPOSED CONDUIT / DUCTS TO BE LEFT WITH EXISTING FINISH. REMOVE ALL LABELS. X) ALL FIRE ALARM WIRING / PREWIRE TO BE ROUTED IN CONDUIT. Y) CENTER PENDANTS AND SCHEDULED FIXTURES BETWEEN JOISTS WHERE CELING IS
- EXPOSED, TYP. Z) REFER TO EELEVATIONS FOR HEIGHTS OF PENDANT FIXTURES.
- AA) REFER TO ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT OF WALL SCONCE IN RESTROOMS. AB) GC TO CONFIRM/COORDINATE ABOVE CEILING CLEARANCES AND CONDITIONS TO SET
- CEILING HEIGHTS PRIOR TO ORDERING DOORS, FRAMES, LIGHTS, ETC. AC) ALL GYPSUM BOARD CEILINGS TO BE PAINT P-2, UNO. AD) G.C. TO CENTER ALL LIGHT FIXTURES HEADS AT CEILING TILES UNO.
- AE) ALL EXPOSED CONDUIT AND EXPOSED HVAC EQUIPMENT TO BE ARRANGED AS CLEAN, PARALLEL AND STRAIGHT AS POSSIBLE TO LOOK INTENTIONALLY ALIGNED.

ORIGINAL CODE STUDY SUBMITTED UNDER SEPARATE PERMIT (Provided for Reference Only)

723 MAIN ST UNIT 1 IS A COMMERCIAL TENANT FINSH PROJECT. THE OLD INTERIOR WALL PANELING AND DROP CEILING WILL BE REMOVED, ADDITIONAL ROOF INSULATION AND ELECTRICAL WILL BE INSTALLED TO SERVE 2 TENNANTS, UNIT 1 AND UNIT 2. a COMMON HALLWAY SERVES AS EGRESS FOR UNIT 2 AND THE COMMON HALLWAY SERVES AS THE SECOND MEANS OF EGRESS FOR UNIT 1. A NEW GLAZING STOREFRONT WILL BE ADDED ALONG MAIN STREET AND WINDOWS WILL BE ADDED TO THE REAR OF THE BUILDING FOR UNIT 2. ONE WOMENS AND ONE MENS ADA BATHROOM WILL BE ACCESSED OFF THE OMMON HALLWAY. A SHARED EMPLOYEE ONLY ADA SHOWER WITH MOP SINK WILL BE AT THE END OF THE HALLWAY. A KITCHENETTE WILL BE LOCATED OFF THE COMMON HALLWAY ADJACENT TO THE BATHROOMS.

THE BUILDING IS CONSTRUCTED OF 2 CMU LOAD BEARING WALLS FOR THE TRUSS ASSEMBLIES AND END WALLS WHICH BEAR LOADS OF THE BRICK FACADES ALONE. THE EXISTING TRUSSES ARE CLEAR SPAN WITH NO INTERNAL LOAD BEARING POINTS. THE BUILDING IS 2,750SF AND IS UNSPRINKLED.

LOCAL CODES REFERENCED: City of Longmont International Codes 2021

BUILDING CODES REFERENCED: 2020 National Electric Code NFPA code 72

- 2021 International Building Code 2021 International Mechanical Code
- 2021 International Energy Conservation Code 2021 International Plumbing Code 2021 International Existing Building Code

LONGMONT COMMERCIAL

2021 International Fire Code

Total GSF = 2,771 GSF

BUILDING USE: OCCUPANCY A-2, B, M

OCCUPANT LOADS

BUILDING SEPERATION: Non-Separated Occupancies

Unit 1 = (Unknown Tenant) (A-2, B, M) = 1,495 SF total areaMax Allowed Occupant Load 49 Persons for Single Egress Note: 2nd egress provided with interior door swing

Unit 2 = Professional Office

(B) Business = 1,189 SF total area Kitchenette 97SF @ $\frac{1}{100}$ = 1 occupant Office 487 SF @ $\frac{1}{100}$ = 5 occupants Total Occupant Load = 6

CONSTRUCTION TYPE: Type V-B

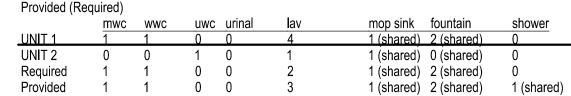
COMMERCIAL: CENTRAL BUSINESS DISTRICT

BUILDING HEIGHT 45' NO CHANGE FRONT SETBACK 20' NO CHANGE REAR SETBACK 10' 25'-4.5" NO CHANGE SIDE SETBACK NO CHANGE

1st floor structure: 12" Hollow CMU walls (north / south) 8" hollow CMU walls (east / west) 2x12 joist supporting continuous sloped roof constructed on 2x6 supports. Concrete Floor

EGRESS REQUIREMENTS: Min width: 36" Max distanace to exit (unsprinklered): A-75FT, B-75ft Max common path of travel (unsprinklered): A-75ft, B-100ft

Max dead end corridor(unsprinklered): B-50ft Non Rated Corridor: Occupancy < 30 PLUMBING COUNTS:



2021 IBC 2902.1

4. Mop Sinks: 1 per floor

Occupancies > 15 require separate men / womens restrooms 1. A2: LAV 1 per 75. FOUNTAINS 1 per 500 2. B: LAV 1 per 40, FOUNTAINS 1 per 100 3. M: LAV 1 per 750, FOUNTAINS 1 per 1000

2021 IBC 1110.5.1

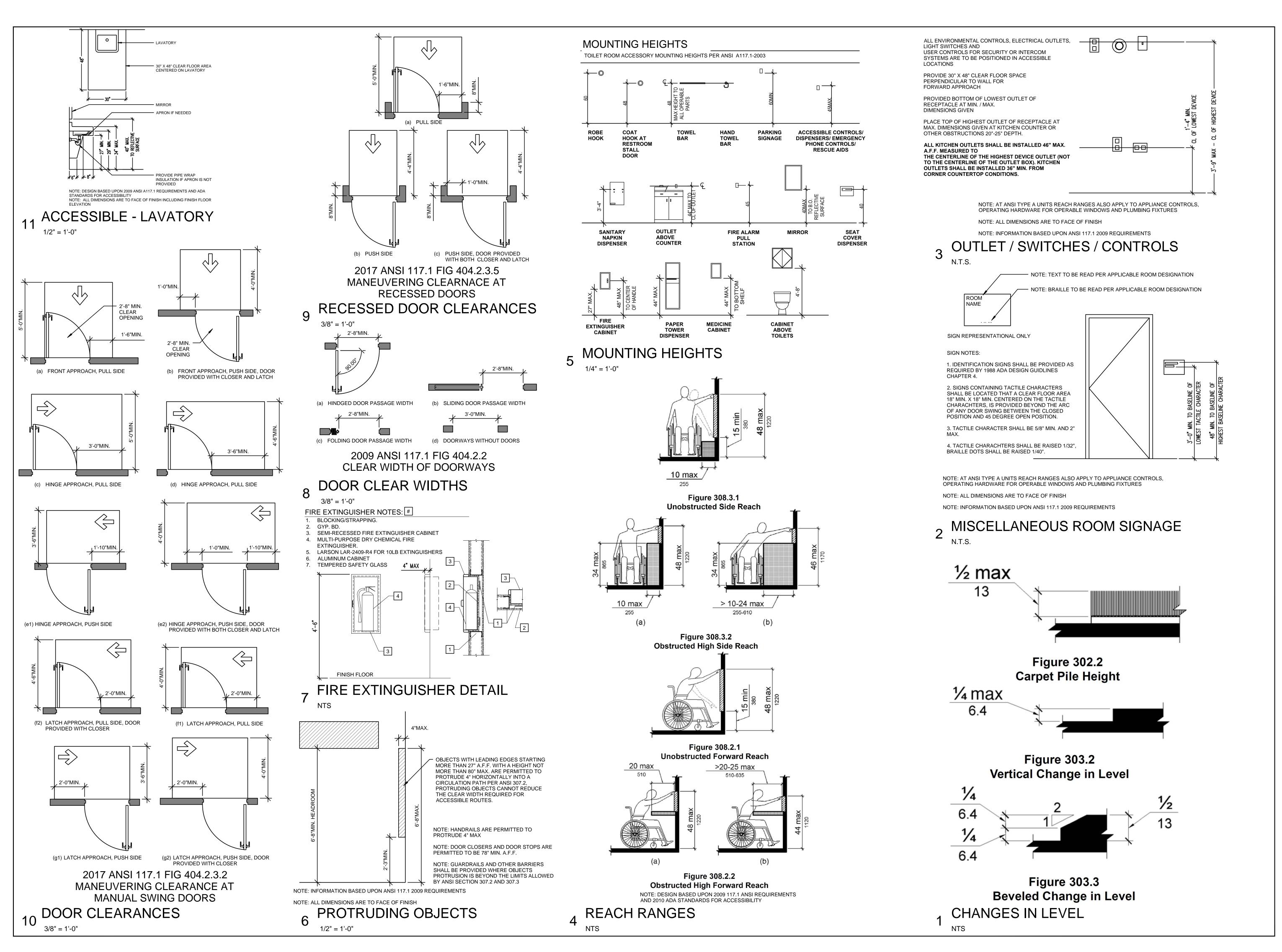
Fountains shall be installed for both wheelchair & standing persons

MENTS PERMIT 501 TRE > O ≥ 5 – O 2 0 0

863 Santa Fe Drive Denver, CO 80204

ted@tlsarchitect.com 303-875-8719

CODE REVIEW PLAN



723 MAIN

Theodore Schultz, Architect, LLC. 863 Santa Fe Drive Denver, CO 80204 ted@tlsarchitect.com 303-875-8719

ROYALTY ARRANGEMENTS
(UNIT 1 OCCUPANCY PERMIT)

PROJECT No. 723-FLWR
DESIGN BY: CWK
CHECKED BY: CWK
ISSUED FOR: DATE:
CONCEPT 3.7.2023

ACCESSIBILITY DETAILS

SHEET **A0.5**

A. Summary 1. This Section includes the following:

a. Demolition and removal of selected portions of building or structure.

b. Demolition and removal of selected site elements. c. Salvage of existing items to be reused or recycled.

B. Project Conditions

 Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical. 2. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

3. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.

a. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner will remove hazardous materials under a separate contract.

4. Storage or sale of removed items or materials on—site is not permitted. 5. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective

demolition operations. a. Maintain fire-protection facilities in service during selective demolition operations.

C. Examination 1. Verify that utilities have been disconnected and capped.

2. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

3. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged. 4. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.

5. Engage a professional engineer to survey condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective demolition operations. 6. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs.

7. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

D. Utility Services And Mechanical/Electrical Systems

1. Existing Services/Systems: Maintain services/systems indicated to remain and protect them against damage during selective

2. Service/System Requirements: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.

a. Arrange to shut off indicated utilities with utility companies.

b. If services/systems are required to be removed, relocated, or abandoned, before proceeding with selective demolition provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building

c. Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing.

E. Preparation 1. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference

with roads, streets, walks, walkways, and other adjacent occupied and used facilities. 2. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to

adjacent buildings and facilities to remain. 3. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

a. Shoring system provider shall engage professional engineering of shoring system, as required.

F. Selective Demolition

1. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

a. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain. b. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces. c. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame—cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.

d. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

2. Removed and Salvaged Items:

a. Clean salvaged items.

b. Pack or crate items after cleaning. Identify contents of containers. c. Store items in a secure area until delivery to Owner.

d. Transport items to Owner's storage area designated by Owner.

3. Removed and Reinstalled Items:

a. Clean and repair items to functional condition adequate for intended reuse. Paint equipment to match new equipment

b. Pack or crate items after cleaning and repairing. Identify contents of containers. c. Protect items from damage during transport and storage.

d. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide

connections, supports, and miscellaneous materials necessary to make item functional for use indicated. 4. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When

permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete. G. Disposal Of Demolished Materials

1. General: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.

2. Burning: Do not burn demolished materials. 3. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

H. Cleanina 1. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

DIVISION 3 - CONCRETE

3.1 03 30 00 - CAST-IN-PLACE CONCRETE A. See Structural drawings and specifications.

B. Finishina

1. Smooth—Formed Finish: As—cast concrete texture imparted by form—facing material, arranged in an orderly and symmetrical

manner with a minimum of seams. Use for undersides of suspended floor slabs.

2. Trowel Finish: Apply a trowel finish to surfaces exposed to view or to be covered with resilient flooring, carpet, ceramic or auarry tile set over a cleavage membrane, paint, or another thin-film-finish coating system. Finish surfaces according to ASTM E

1155, for a randomly trafficked floor surface.

A 580/A 580M, Type 304.

DIVISION 4 - MASONRY 4.1 04 20 00 - UNIT MASONRY

A. Face Brick - ASTM C 216, Grade SW, Type FBX; color to match existing, selected by Architect from manufacturer's full range. For ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces, provide units without cores or frogs and with exposed surfaces finished. Provide special shapes for applications where stretcher units cannot accommodate special conditions, including those at corners, movement joints, bond beams, sashes, and lintels. Provide Control and expansion joints, as recommended by the Brick Institute of America, and the Structural Engineer. Modular brick sized at 3-5/8" x 2-5/8" x 7-5/8".

B. Mortar And Grout Materials - Portland Cement per ASTM C 150, Type I or II, except Type III may be used for cold-weather construction. Hydrated Lime per ASTM C 207, Type S. Aggregate for Mortar per ASTM C 144. Aggregate for Grout per ASTM C 404. Water

shall be Potable. Grout for Unit Masonry per ASTM C 476. Color by Architect. C. Reinforcement: Masonry Joint Reinforcement per ASTM A 951. Masonry Joint Reinforcement for Single-Wythe Masonry shall be either

ladder or truss type with single pair of side rods. D. Wire Ties: Unless otherwise indicated, size wire ties to extend at least halfway through veneer but with at least 5/8-inch cover on outside face. Outer ends of wires are bent 90 degrees and extend 2 inches parallel to face of veneer. Use Stainless-Steel Wire per ASTM

E. Weep/Vent Products: Round Plastic Weep/Vent Tubing: Medium—density polyethylene, 3/8— inch OD by 4 inches long. F. Flexible Flashing: For flashing not exposed to the exterior, use one of the following, unless otherwise indicated:

1. Rubberized—Asphalt Flashing: Composite flashing product consisting of a pliable, adhesive rubberized—asphalt compound, bonded to a high-density, cross-laminated polyethylene film to produce an overall thickness of not less than 0.030 inch. 2. EPDM Flashing: Sheet flashing product made from ethylene-propylene-dieneterpolymer, complying with ASTM D 4637, 0.040 inch

G. Source Limitations for Masonry Units: Obtain exposed masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, through one source from a single manufacturer for each product required. Metal Flashing

1. Fabricate from stainless steel. Extend at least 3 inches into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch and down into joint 3/8 inch to form a stop for retaining sealant backer rod. H. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color for exposed masonry, from a single manufacturer for each cementitious component and from one source or producer for each agaregate.

DIVISION 5 - METALS

5.1 05 40 00 - COLD-FORMED METAL FRAMING

A. Non-load-bearing wall framing 1. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges

2. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges 3. Single Deflection Track: Manufacturer's single, deep-leg, U-shaped steel track; unpunched, with unstiffened flanges, of web depth to contain studs while allowing free vertical movement, with flanges designed to support horizontal and lateral loads and transfer

them to the primary structure. 4. Drift Clips: Manufacturer's standard bypass or head clips, capable of isolating wall stud from upward and downward vertical displacement and lateral drift of primary structure.

B. Fire—Test—Response Characteristics: Where indicated, provide cold—formed metal framing identical to that of assemblies tested for fire resistance per ASTM E 119 by a testing and inspecting agency acceptable to authorities having jurisdiction.

C. AISI Specifications and Standards: Comply with AISI's "North American Specification for the Design of Cold—Formed Steel Structural Members" and its "Standard for Cold-Formed Steel Framing - General Provisions." D. Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated, as follows: supplementary

braces, and girts; joist hangers and end closures; hole reinforcing plates; backer plates. E. Cold-Formed Steel Framing, General: Design according to AISI's "Standard for Cold-Formed Steel Framing - General Provisions." Headers according to AlSI's "Standard for Cold-Formed Steel Framing - Header Design." Design exterior non-load-bearing wall framing to accommodate horizontal deflection without regard for contribution of sheathing materials. Wind Loads: Per ASCE 7-02 and Denver

framing; bracing, bridging, and solid blocking; web stiffeners; anchor clips; end clips; foundation clips; gusset plates; stud kickers, knee

requirements. Deflection Limits: Design framing systems to withstand design loads without deflections greater than the following: 1. Exterior Non-Load-Bearing Framing: Horizontal deflection of 1/600 of the wall height at brick.

5.2 05 50 00 - METAL FABRICATIONS A. Steel columns and lintels, including those required to support brick veneer. See Structural drawings and specifications.

B. Miscellaneous metal fabrications, including steel framing and supports for countertops; steel framing and supports for mechanical and electrical equipment; steel framing and supports for applications where framing and supports are not specified in other sections; loose bearing and leveling plates; steel weld plates and angles for casting into concrete not specified in other sections; metal bollards; loose steel lintels: anchor bolts, steel pipe sleeves, and wedge-type inserts indicated to be cast into concrete or built into unit masonry. See Structural drawings and specifications.

C. Pipe Bollards: Provide 6" dia. hot dipped galvanized, painted, schedule 80, concrete filled pipe bollards as indicated. Bollards shall be sleeved into exterior concrete sidewalk.

D. Ferrous metals. 1. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

2. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666, Type 304.

3. Stainless-Steel Bars and Shapes: ASTM A 276, Type 304. 4. Steel Tubing: ASTM A 500, cold-formed steel tubing.

5. Steel Pipe: ASTM A 53/A 53M, standard weight (Schedule 40), unless another weight is indicated or required by structural loads. E. Nonferrous metals

1. Aluminum Plate and Sheet: ASTM B 209, Alloy 6061-T6. 2. Aluminum Extrusions: ASTM B 221. Alloy 6063-T6.

F. Fasteners: Unless otherwise indicated, provide Type 304 stainless—steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633, Class Fe/Zn 5, at exterior walls. Provide stainless—steel fasteners for fastening aluminum. Select fasteners for type, grade, and class required.

DIVISION 6 - WOOD, PLASTICS AND COMPOSITES

6.1 06 10 00 - ROUGH CARPENTRY

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated. Provide dressed lumber, S4S, unless otherwise indicated. Any species with a modulus of elasticity and an extreme fiber stress in bending as indicated on Drawings; exception: Southern (yellow) pine is not permitted. See Structural drawings and specifications.

B. Engineered Wood Products: Provide engineered wood products acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for Project. See Structural drawings and specifications.

C. Fire-Retardant-Treated Materials: Comply with performance requirements in AWPA C20 (lumber) and AWPA C27 (plywood). D. Fasteners: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture: nails. brads. and staples per ASTM F 1667; power— driven fasteners per NES NER-272; wood screws per ASME B18.6.1; lag bolts per ASME B18.2.1; steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers. Use common wire nails, unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members, Install fasteners without splitting wood; do

not countersink nail heads, unless otherwise indicated. See Structural drawings and specifications. E. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry assemblies and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency. See Structural drawings and specifications.

F. Metal Framing Anchors — Provide products with allowable design loads, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency. At Galvanized Steel Sheet use Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 coating designation; use for interior locations where stainless steel is not indicated. Stainless—Steel Sheet per ASTM A 666, Type 304; use for exterior locations and where indicated. See Structural drawings

G. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated. H. Fire block furred spaces of walls, at each floor level, at ceiling, and at not more than 96 inches o.c. with solid wood blocking or noncombustible materials accurately fitted to close furred spaces. Fire block concealed spaces of wood-framed walls and partitions at each floor level, at ceiling line of top story, and at not more than 96 inches o.c. Where fire blocking is not inherent in framing system used, provide closely fitted solid wood blocks of same width as framing members and 2-inch nominal- thickness. I. Wall and Partition Framing Installation: Provide single bottom plate and double top plates using members of 2-inch nominal thickness whose widths equal that of studs, except single top plate may be used for non-load-bearing partitions. Fasten plates to supporting

construction, unless otherwise indicated. 1. For interior partitions and non-load-bearing walls, provide 2-by-4-inch nominal-size wood study spaced 16 inches o.c., unless

2. Provide continuous horizontal blocking at midheight of partitions more than 96 inches high, using members of 2-inch nominal thickness and of same width as wall or partitions.

J. Construct corners and intersections with three or more studs, except that two studs may be used for interior non-load-bearing K. Frame openings with multiple studs and headers. Provide nailed header members of thickness equal to width of studs. Support headers

on jamb studs. 1. For non-load-bearing partitions, provide double-jamb studs and headers not less than 4- inch nominal depth for openings 48 inches and less in width, 6-inch nominal depth for openings 48 to 72 inches in width, 8-inch nominal depth for openings 72 to 120 inches in width, and not less than 10-inch nominal depth for openings 10 to 12 feet in width.

6.2 06 16 00 - SHEATHING

A. Fire—Test—Response Characteristics: For assemblies with fire—resistance ratings, provide materials and construction identical to those of assemblies tested for fire resistance per ASTM E 119 by a testing and inspecting agency acceptable to authorities having jurisdiction. B. Wood Panel Products

1. Plywood: Either DOC PS 1 or DOC PS 2, unless otherwise indicated 2. Thickness: As needed to comply with requirements specified, but not less than thickness indicated.

3. Factory mark panels to indicate compliance with applicable standard. C. Wall Sheathing

1. Oriented-Strand-Board Wall Sheathing: Exposure 1, Structural I sheathing

D. Roof Sheathing

1. As indicated on the structural drawings. 2. Nominal Thickness: Not less than 19/32 inch thick.

E. Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture. F. See also Structural drawings and specifications.

6.3 06 40 23 - INTERIOR ARCHITECTURAL WOODWORK

A. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature between 60 and 90 deg F and relative humidity between 35 and 70 percent during the remainder

B. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

C. Wood Products . Medium-Density Fiberboard: ANSI A208.2, Grade MD.

2. Particleboard: ANSI A208.1. Grade M-2.

3. Southern Yellow Pine: finger jointed or continuous cut

D. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or, if not indicated, as required by woodwork quality standard. E. Thermoset Decorative Panels: Particleboard or medium—density fiberboard finished with thermally fused, melamine—impregnated decorative paper complying with LMA SAT

F. Cabinet Hardware And Accessories

1. General: Provide cabinet hardware and accessory materials associated with architectural woodwork, except for items specified in Division 08 Section "Door Hardware", as listed here and as indicated on the Drawings.

2. Butt Hinges: hinges made from 0.095-inch- thick metal, and as follows:

a. Semiconcealed Hinges for Overlay Doors: BHMA A156.9, B01521. 3. Back-Mounted Pulls: BHMA A156.9. B02011.

4. Catches: Magnetic catches, BHMA A156.9, B03141.

5. Drawer Slides: BHMA A156.9. B05091.

a. Heavy Duty (Grade 1HD-100 and Grade 1HD-200): Side mounted; full-extension type; zinc-plated steel ball-bearing

6. Box Drawer Slides: Grade 1HD-100; for drawers not more than 6 inches high and 24 inches wide.

7. File Drawer Slides: Grade 1HD-200: for drawers more than 6 inches high or 24 inches wide.

8. Pencil Drawer Slides: Grade 1; for drawers not more than 3 inches high and 24 inches wide. G. Door Locks: BHMA A156.11. E07121.

H. Drawer Locks: BHMA A156.11. E07041. I. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.

1. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln—dried to less than 15 percent moisture content. 2. Grommets: PVC: to be field located. K. Fabrication

1. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scribing, trimming, and fitting.

a. Interior Woodwork Grade: Custom. b. Shop cut openings to maximum extent possible. Sand edges of cutouts to remove splinters and burrs. Seal edges of openings in countertops with a coat of varnish.

c. Underside of work surfaces to be "baby-bottom" smooth within 12" of the front edge of work surface.

L. Plastic-Laminate Cabinets: 1. AWI Type of Cabinet Construction: Full flush overlay.

2. Laminate Cladding for Exposed Surfaces: High-pressure decorative laminate as follows:

a. Horizontal Surfaces Other Than Tops: Grade HGL. b. Postformed Surfaces: Grade HGP.

c. Vertical Surfaces: Grade VGS.

d. Edges: PVC tape, 0.018-inch minimum thickness, matching laminate in color. 3. Materials for Semiexposed Surfaces Other Than Drawer Bodies: Thermoset decorative panels.

4. Drawer Sides and Backs: Thermoset decorative panels. 5. Drawer Bottoms: Thermoset decorative panels.

6. Colors, Patterns, and Finishes: As selected by Architect from manufacturer's full range. 7. Provide dust panels of 1/4-inch plywood or tempered hardboard above compartments and drawers, unless located directly

M. Plastic-Laminate Countertops: See section 12 36 23. Plastic Countertops

N. Solid-Surfacing-Material Countertops:

1. Solid-Surfacing-Material Thickness: 3/4 inch.

4. Install integral sink bowls in countertops in shop.

2. Colors, Patterns, and Finishes: As indicated on the drawings. 3. Fabricate tops in one piece with shop-applied backsplashes. Comply with solid-surfacingmaterial manufacturer's written

recommendations for adhesives, sealers, fabrication, and finishing.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

A. Cold-Applied, Emulsified-Asphalt Dampproofing: Basis-of-Design Product: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:

1. Watchdog H3 waterproofing: Tremco, Inc.

B. Protection Course, Roll-Roofing Type: Smooth-surfaced roll roofing complying with ASTM D 6380, Class S, Type III. C. Emulsified-Asphalt Primer: ASTM D 1227, Type III, Class 1, except diluted with water as recommended by manufacturer.

7.2 07 21 00 - THERMAL INSULATION

A. Spray Foam Closed Cell Insulation Ceiling

D. Asphalt-Coated Glass Fabric: ASTM D 1668. Type I.

1. Closed Cell 2.0 pcf Spray Foam Insulation with Flame Spread Rating <25 (ASTM E84).

a. Existing R16 Extruded Polystyrene above exist roof sheathing

b. 3/4" Plywood roof sheathing c. Added insulation under sheathing, closed cell Spray Foam with Flame Spread Rating <25.

i. R38 Assembly Composite section for roof. B. Glass-Fiber Blanket Insulation

penetrations in vapor retarder

1. Unfaced, Glass-Fiber Blanket Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers; with maximum flame—spread and smoke—developed indexes of 25 and 50, respectively; passing ASTM E 136 for combustion

2. Where glass—fiber blanket insulation is indicated by the following thicknesses, provide blankets in batt or roll form with thermal resistances indicated:

a. 5-1/2 inches thick with a thermal resistance of 19 deg F x h x sq. ft./Btu at 75 deg F. b. 3-5/8 inches thick with a thermal resistance of 11 deg F x h x sq. ft./Btu at 75 deg F.

C. Vapor Retarders . Polyethylene Vapor Retarders: ASTM D 4397, 6 mils thick, with maximum permeance rating of 0.13 perm. 2. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and

3. Vapor-Retarder Fasteners: Pancake-head, self-tapping steel drill screws; with fender washers. 4. Single—Component Nonsag Urethane Sealant: ASTM C 920, Type I, Grade NS, Class 25, Use NT related to exposure, and Use 0 related to vapor-barrier-related substrates.

5. Adhesive for Vapor Retarders: Product recommended by vapor—retarder manufacturer and with demonstrated capability to bond

vapor retarders securely to substrates indicated. D. Auxiliary Insulating Materials 1. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation securely to substrates indicated without

damaging insulation and substrates. E. Insulation Fasteners

1. Anchor Adhesive: Product with demonstrated capability to bond insulation anchors securely to substrates indicated without damaging insulation, fasteners, and substrates.

7.3 07 25 00 - WEATHER BARRIERS

A. Building Wrap: High-performance, spunbonded polyolefin, non-woven, non-perforated, weather barrier is based upon DuPont™ Tyvek, or other similar material, C® CommercialWrap® and related assembly components.

B. Accessories 1. Seam Tape: 3 inch wide, DuPont™ Tyvek® Tape for commercial applications.

exposure, and, as applicable to joint substrates indicated, Use 0.

2. Fasteners: Tyvek® Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1—inch plastic cap fasteners. 3. Provide sealants that comply with ASTM C920, elastomeric polymer sealant to maintain watertight conditions. Use sealants recommended by the weather barrier manufacturer. Provide adhesive recommended by weather barrier manufacturer.

3. Joint Sealant: ASTM C 920, single-component, neutral-curing silicone; Class 100/50 (lowmodulus), Grade NS, Use NT related to

4. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing. C. Vapor Permeable Weather-Resistive Barrier: two-ply asphalt saturated kraft grade D breather type sheathing paper; install behind

1. 30 LB. Asphalt Felt Type II. ASTM D-226 Gold Lined.

D. Self-Adhering Sheet Flashing 1. Modified Bituminous Sheet: 40-mil- thick, high-temperature resistant self-adhering sheet consisting of 36 mils of rubberized asphalt laminated to a 4-mil- thick, polyethylene film with release liner on adhesive side; Grace Vycor V40.

2. Provide at head, jamb and sill with end dams at openings in exterior skin; lap shingle style with weather barrier.

Building Owner - Building Specific Specifications Not all specifications will apply to this ic If applicable these specifications must be

> lf structural design is required for any work G.C. to procure structural design. Anuwhere that Architect is referenced for color, finish schedule or finish material

selection should be replaced with Owner to select.

SHEET

ARCHITECTURAL

SPECIFICATIONS

Theodore Schultz, Architect, LLC.

MENTS ERMIT 501

M M

<u>0</u>000

STRI ANG

2

 \triangleleft

≥ > 0 ≥

 \succ

O

863 Santa Fe Drive Denver, CO 80204

ted@tlsarchitect.com

303-875-8719

7.4 07 46 00 - SIDING AND TRIM

A. Fiber-Cement Siding and Trim - General: ASTM C 1186, Type A, Grade II, pre-finished fiber-cementboard, noncombustible when tested according to ASTM E 136; with a flame-spread index of 25 or less when tested according to ASTM E 84.

1. James Hardie HZ5, 12" x 12' x 1/4", Primed, Vented and Non Vented soffit panels

2. James Hardie HZ5. Primed. Artisan Matrix Panel Sidina

3. James Hardie HZ5, 4" wide, Primed, batten strips

B. Siding Accessories, General: Provide starter strips, edge trim, outside and inside corner caps, and other items as recommended by siding manufacturer for building configuration.

1. Provide accessories matchina color and texture of adjacent siding unless otherwise indicated.

C. Flashing: Provide aglyanized steel flashing at window and door heads and where indicated.

1. For fastening to metal, use ribbed bugle—head screws of sufficient length to penetrate a minimum of 1/4 inch (6 mm), or three screw-threads, into substrate. 2. For fastening fiber cement, use hot-dip galvanized fasteners.

7.6 07 51 13 - BUILT-UP ASPHALT ROOFING (REPAIR AND PATCHING)

A. Membrane plies: Ply Sheet: ASTM D 2178, Type VI, asphalt-impregnated, glass-fiber felt.

B. Asphalt Primer: ASTM D 41

C. Roofing Asphalt: ASTM D 312. Type III

D. Aggregate Surfacing: ASTM D 1863, No. 6 or No. 67, clean, dry, opaque, water—worn gravel or crushed stone, free of

E. Remove surface material and most of the flood coat from existing membrane a minimum of 12 inches beyond the edge of the area to be patched. Prepare membrane by trimming away deteriorated felts. Use care not to damage the watertight felts below. Prime area with a thin coat of asphalt primer and allow to dry. Apply 3-ply hot asphalt and fiberglass felt patch using strips 6", 9", and 12" wider than the area to be patched. Apply the surface material in a flood coat of hot asphalt. Apply aggregate surfacing as recommended by roofing materials manufacturer.

7.7 07 62 00 - SHEET METAL FLASHING AND TRIM

A. Provide prefinished sheet metal copings, flashing and counter flashing as indicated at roofing applications. Provide prefinished gutters, leader boxes and downspouts at roof eaves, fascias and roof canopies, as indicated; 24 GA typical, except provide 20 GA at all fascias. B. Fasteners: Install sheet metal flashing and trim to withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failing, rattling, leaking, and fastener disengagement.

C. Sheet Metal Flashing and Trim Standard: Comply with SMACNA's "Architectural Sheet Metal Manual." Conform to dimensions and profiles shown unless more stringent requirements are indicated.

D. Prepainted, Metallic-Coated Steel Sheet: Steel sheet metallic coated by the hot-dip process and prepainted by the coil-coating process to comply with ASTM A 755/A 755M. Zinc-Coated (Galvanized) Steel Sheet per ASTM A 653/A 653M, G90 coating designation; structural auglity, mill phosphatized for shop painting. Aluminum-Zinc Alloy-Coated Steel Sheet per ASTM A 792/A 792M. Class AZ50 coating designation, Grade 40; structural quality.

E. Provide materials and types of solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as require for complete sheet metal flashing and trim installation. Exposed Fasteners shall have heads matching color of sheet metal by means of plastic caps or factory—applied coating; at areas exposed to public view only. Fasteners for Flashing and Trim to be blind fasteners or self-drilling screws, gasketed, with hex washer head.

F. Pressure-sensitive, 100 percent solids, polyisobutylene compound sealing tape with release- paper backing. Provide permanently elastic, nonsaa, nontoxic, nonstainina tape.

G. Fabricate sheet metal flashing and trim without oil canning, buckling, or tool marks and true to line and levels indicated, with exposed edges folded back to form hems. Fabricate nonmoving seams in accessories with flat-lock seams.

7.8 07 72 00 - ROOF ACCESSORIES

A. Roof Curbs: Provide metal roof curbs, internally reinforced and capable of supporting superimposed live and dead loads, including equipment loads and other construction to be supported on roof curbs. Fabricate with welded or sealed mechanical corner joints, with stepped integral metal cant raised the thickness of roof insulation and integral formed mounting flange at perimeter bottom. Coordinate dimensions with rough-in information or Shop Drawings of equipment to be supported.

7.10 079200 - JOINT SEALANTS

A. Compatibility: Provide joint seglants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer, based on testing and field experience. B. Joint-Sealant Application JS-1: Exterior vertical and horizontal nontraffic construction joints in castin-place concrete; exterior vertical and

horizontal nontraffic joints between plant—precast architectural concrete units; exterior vertical control and expansion joints in unit masonry: exterior perimeter joints between brick and stucco and frames of doors, windows and louvers; exterior control and expansion joints in ceilings and other overhead surfaces; vertical control and expansion joints on exposed interior surfaces of exterior walls: Multicomponent nonsag urethane sealant; colors by Architect.

C. Joint-Sealant Application JS-2: Exterior butt joints between metal panels: Multicomponent nonsag neutral-curing silicone sealant; color by

D. Joint-Sealant Application JS-3: Exterior horizontal traffic, isolation and contraction joints in cast-inplace concrete slabs: Multicomponent pourable urethane sealant; color by Architect.

E. Joint-Sealant Application JS-4: Interior perimeter joints of exterior openings; interior joints between plumbing fixtures and adjoining walls, floors, and counters; perimeter joints between interior wall surfaces and frames of interior doors, windows and elevator entrances; Latex seglant: colors by Architect.

F. Joint-Sealant Application JS-5: Interior ceramic and dimension stone tile expansion, control, contraction, and isolation joints in horizontal traffic surfaces: Multicomponent pourable urethane sealant; color by Architect.

G. Joint-Sealant Application JS-6: Vertical joints on exposed surfaces of interior unit masonry and concrete walls and partitions: Multicomponent nonsag urethane sealant; color by Architect.

DIVISION 8 - OPENINGS 8.1 08 11 13 - HOLLOW METAL DOORS AND FRAMES

A. Hollow metal doors and frames shall be fabricated in accordance with standards and specifications established by Steel Door Institute, complying with ANSI A250.8-1998 (SDI-100) "Recommended Specifications for Standard Steel Doors and Frames" and as specified. B. Acoustical qualities: Doors shall have a minimum sound transmission classification of 29 as tested under ASTM E90-61T.

D. Opening assemblies shall meet the requirements of NFPA 105 Hot Smoke Test. E. Hollow metal frames for doors shall be formed of steel to sizes and shapes indicated. Frames shall be fabricated with continuously welded corners unit type construction at joints, unless noted otherwise for Prefinished Frames, Frames shall be furnished with Underwriter's Laboratories label, as required, at the place of manufacturer. Frames shall be cold-rolled or hotrolled, pickled and oiled, steel sheets with clean, smooth surfaces. Interior Frames of 16-gauge thick steel sheet shall be used for door openings wider than 48 inches, Level 2 steel doors, and wood doors, unless otherwise indicated. Exterior Frames of 16-gauge (0.053-inch/1.3-mm) thick steel sheet for shall be used for door openings wider than 48 inches. Level 2 steel doors and Level 3 steel doors.

F. Prefinished frames for doors shall be minimum 18 gauge, cold-rolled steel sheet conforming to ASTM A366. Use for interior door frames only. Wood or synthetic material applied casings per Section 064023. Factory applied baked enamel finish. G. Interior Flush Door:

1. Basis-of-design Model: "L Series"; Steelcraft Manufacturing Company, or approved substitution.

2. Level 2, Heavy Duty, 18-gage, and Physical Performance Level B (Heavy Duty), Model 2 (Seamless).

3. Thickness: 1-3/4"

4. Cores: Per ANSI A250.8. Doors shall be reinforced, stiffened, sound deadened and insulated with impregnated Kraft honeycomb core completely filling the inside of the doors and laminated to inside faces of both panels using contact adhesive applied to both

I. Interior temperature rise doors shall be the same as flush door construction except core material shall be designed to produce the 450 degree temperature rise rating. Cores per ANSI A250.8. Use mineral-fiber board: For labeled doors if a temperature-rise limit is required. J. Exterior Doors: Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical—endurance level:

1. Flush Door:

a. Thickness: 1-3/4"

b. Basis-of-design Model: "L Series"; Steelcraft Manufacturing Company, or approved substitution. c. Level 3, Extra Heavy Duty, 16-gage, and Physical Performance Level B (Extra Heavy Duty), Model 2 (Seamless).

2. Exterior doors shall be fabricated as thermal insulating door and frame assemblies and tested in accordance with ASTM C236 or ASTM C976 on fully operable door assemblies. Provide thermal—rated assemblies with U—factor of 0.24 or better. Hot—dipped agivanized or electrolytic zinc-coated steel with a stretcher level degree of flatness.

3. Exterior swing—out doors shall have the top and bottoms closed to eliminate moisture penetration. Door tops shall no have holes

K. Factory Prime Coating for Field Painted Finish: Unless specified otherwise, provide manufacturer's standard, factory—applied coat of rust-inhibiting primer complying with ANSI A250.10 for acceptance criteria.

8.2 08 14 16 - FLUSH WOOD DOORS

A. Door Construction, General: WDMA I.S.1-A Performance Grade:

. Heavy Duty unless otherwise indicated.

2. Extra Heavy Duty: Public toilets, janitor's closets, assembly spaces, exits and where indicated.

3. Standard Duty: Closets (not including janitor's closets) private toilets and where indicated. B. Interior Solid-Core Doors: Veneered-Faced Doors For Transparent Finish

1. New doors shall match existing interior doors to remain.

2. Grade: Premium, with Grade AA faces. 3. Species: As indicated on Drawings.

4. Cut: As indicated on Drawings.

5. Match between Veneer Leaves: As indicated on Drawings.

6. Assembly of Veneer Leaves on Door Faces: As indicated on Drawinas.

7. Core: Particleboard. 8. Construction: Five or seven plies. Stiles and rails are bonded to core, then entire unit abrasive planed before veneering.

C. Factory Finishing: General: Comply with referenced quality standard for factory finishing. Complete fabrication, including fitting doors for openings and machining for hardware that is not surface applied, before finishing.

1. Finish faces, all four edges, edges of cutouts, and mortises. Stains and fillers may be omitted on bottom edges, edges of cutouts, and mortises.

D. Finish doors at factory that are indicated to receive transparent finish.

E. Transparent Finish: 1. Grade: Custom.

2. Finish: AWI conversion varnish system.

3. Staining: As selected by Architect from manufacturer's full range.

4. Sheen: Satin.rust-inhibiting primer complying with ANSI A250.10 for acceptance criteria.

8.4 08 41 13- ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS A. Approved manufacturer and models for basis—of—design:

1. Exterior: "Trifab 451T", Kawneer North America, an Alcoa Company. (770-449-5555); thermally broken with 1" insulated glazing. 2. Interior: "Parwall". Kawneer North America

B. Entry doors style and rail tubular member door framing system by same manufacturer of storefront framing system, compatible with specified framing system. Framing members shall be extruded aluminum of 6063T-5 alloy and shall be of the size, shape, and intended function as shown on the Drawings. Performance requirements shall conform to standards established by the Architect in relation to wind load and deflection limits. Fasteners shall be stainless steel.

1. Medium stile doors, Type 350 by Kawneer or equal, fabricated for glazing with 1" insulated glass. Clear anodized finish.

C. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating

D. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I. 0.018 mm or thicker.

E. Entrance door hardware shall be supplied with doors unless indicated otherwise. Furnish manufacturer's bolting panic device at storefront doors. Coordinate hardware at main entries with entry system.

8.5 08 71 00 - DOOR HARDWARE

A. Single Source Responsibility: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from SCHLAGE USING SC6 KEYWAY. B. Hardware models and manufacturers are specified for each hardware item to establish a standard of quality and minimum functional requirements. In the hardware schedule at the end of this Section, product model numbers are used as part of this description to assist in

identifying individual items. C. Refer to Hardware Schedule on drawings.

D. Provide Grade 1 hardware serving exterior doors

8.6 08 80 00 - GLAZING

A. General: Provide alazing systems capable of withstanding normal thermal movement and wind and impact loads (where applicable) without failure. including loss or glass breakage attributable to the following: defective manufacture, fabrication, and installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.

B. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190, and complying with other requirements specified.

1. Curtainwall and storefront systems: 1" insulated, Low—E; PPG Solarban 70XL glazing.

C. Glazing for Fire-Rated Door and Window Assemblies: Glazing for assemblies that comply with NFPA 80 and that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA

1. Provide SuperLite II XL glazing in rated openings.

D. Safety Glazing Products: Comply with testing requirements in 16 CFR 120,1and, for wired glass, ANSI Z97. 1. Provide clear tempered glass at non-fire-rated interior glazed lites and openings.

E. Manufacturer's Special Warranty on Insulating Glass: Manufacturer's standard form, made out to Owner and signed by insulating—glass manufacturer agreeing to replace insulating-glass units that deteriorate, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.

Warranty Period: 10 years from date of Substantial Completion. F. Glass Products

1. Float Glass: ASTM C 1036, Type I, Quality-Q3, Class I (clear) unless otherwise indicated. 2. Heat-Treated Float Glass: ASTM C 1048; Type I; Quality-Q3; Class I (clear) unless otherwise indicated; of kind and condition

3. Uncoated Tinted Float Glass: Class 2. complying with other requirements specified.

G. Glazing Accessories 1. Glazing Gaskets

a. Dense Compression Gaskets: Molded or extruded aaskets of profile and hardness required to maintain watertight seal. b. Soft Compression Gaskets: Extruded or molded, closed-cell, integral-skinned EPDM silicone or thermoplastic polyolefin rubber gaskets complying with ASTM C 509. Type II. black: of profile and hardness required to maintain watertight seal.

2. Glazing Tapes a. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass

manufacturers for application indicated. b. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and

complying with AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant. 3. Glazing Sealant: Neutral-curing silicone glazing sealant complying with STM C 920, Type S, Grade NS, Class 100/50, Use NT.

8.7 089000 - LOUVERS AND VENTS

A. Delegated Design: Design louvers, including comprehensive engineering analysis by a qualified professional engineer, using structural performance requirements and design criteria indicated. B. Fabricate frames, including integral sills, to fit in openings of sizes indicated, with allowances made for fabrication and installation

tolerances, adjoining material tolerances, and perimeter sealant joints. C. Join frame members to each other and to fixed louver blades with fillet welds concealed from view unless otherwise indicated or size

of louver assembly makes bolted connections between frame members necessary. D. Factory finish; color by Architect selected from manufacturer's full range, including nonstandard

DIVISION 9 - FINISHES

9.1 092900 - GYPSUM BOARD

A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency. B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated

according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency. C. Comply with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more

D. Exterior Gypsum Soffit Board: ASTM C 931/C 931M or ASTM C 1396/C 1396M, with manufacturer's standard edges. E. Glass-Mat. Water-Resistant Backing Board: Comply with ASTM C 1178/C 1178M or with ASTM C1177/C 1177M.

F. Gypsum board is 5/8" Type X unless noted otherwise. G. Ceiling Type: Manufactured to have more sag resistance than regular—type gypsum board. . Thickness: 1/2 inch.

2. Long Edges: Tapered. H. Moisture— and Mold—Resistant Type: With moisture— and mold—resistant core and surfaces.

1. Core: 5/8 inch. Type X.

2. Long Edges: Tapered. I. Primer: As recommended by textured finish manufacturer. J. Wall and Ceiling Finish: Smooth

> 1. Standard wall finish: Level 4 2. Provide level 5 finish on walls to receive wall covering; refer to Finish Schedule.

9.2 09 30 13 - CERAMIC TILING

A. Approved Manufacturers: Refer to Finish Schedule

B. ANSI Ceramic Tile Standard: Provide Standard grade tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.

C. Tile Types: As indicated on the Drawings D. Accessories: Provide accessories of type and size indicated, suitable for installing by same method as adjoining tile.

to match top surface of threshold. Limit height of threshold to 1/2 inch or less above adjacent floor surface.

1. Color and Finish: Match adjoining tile.

E. Wall Tile: Refer to Finish Schedule F. Thresholds: General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes. 1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to 1/16 inch above adjacent floor surface. Finish bevel

2. ASTM C 241 and with honed finish. G. Tile Base and Accessories: Provide special shapes such as bull-nose edges and other accessories as required, to match wall tile.

1. Provide matching bull-nose tile at all exposed edges. H. Metal Edge Strips: Angle or L-shape, stainless steel, ASTM A 666, 300 Series exposed-edge material.

I. Provide self-bonding elastomeric crack-bridging membrane capable of heavy-duty service per ASTM C-627. 1. Corrugated Polyethylene: Corrugated polyethylene with dovetail—shaped corrugations and with anchoring webbing on the underside;

3/16-inch (4-mm) nominal thickness; basis-of-design product, Schluter Systems L.P.; DITRA J. Provide waterproofing membrane: Manufacturer's standard product that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated.

K. Leveling coat shall be 1/4" thick or less and shall consist of dry set mortar to which an equal volume of a mixture of one part Portland Cement and 1-1/2 parts sand has been added.

L. Floor tile mortar materials - Bond Coat: Thin Set Mortar with Polymer or Acrylic/Latex Additive. Installation conforming to ANSI A108.5 and A118.4 and Tile Council of America Handbook for Ceramic Tile Installation No. 22F131 and TR911. M. Wall tile adhesive materials - High strength latex-based, non-flammable adhesive formulated to meet or exceed the requirements of

N. Latex Portland Cement Grout consisting of dry set mortar with a acrylic latex or polymer additive. Use in conformance with ANSI A108.5 and ANSI A105.10. Materials shall conform to ANSI A118.3 and A118.7. 1. Color as shown on Finish Schedule.

O. Grout sealer: 511 Impregnator, Miracle Sealants Company; apply per manufacturer's written instructions. P. Provide shower floor pan liner for lining concrete subfloor of showers in locations shown on drawings.

9.7 09 90 00 - PAINTING

A. Provide surface preparation and the application of paint materials to exposed interior and exterior items and surfaces scheduled.

Surface preparation, prime and finish coats specified are in addition to shop-priming and surface treatments. B. Paint all exposed surfaces, whether or not colors are designated, except where a surface or material is indicated not to be painted or is to remain natural. Where an item or surface is not mentioned, paint the same color as similar adjacent materials or surfaces. If color or finish is not designated, the Owner will select from standard colors or finishes available. C. Except in mechanical and electrical rooms, paint all exposed plumbing, heating, fire protection, and electrical material to match the

walls and ceilinas of that area unless noted otherwise. This shall include, but not be limited to, pipes, sprinkler piping, insulation, conduit, ducts, access panels, grilles, diffusers, hangers, exposed steel and iron supports, HVAC and electrical equipment that do not have a factory applied finish, whether the adjacent surfaces receive paint or not, and the like. Include dampers or baffles behind grilles. D. Unless noted otherwise, painting is not required on pre-finished items, finished metal surfaces, concealed surfaces, operating parts, sprinkler heads, or labels.

1. All louvers and grilles to be painted to match adjacent surfaces. 2. Labels: Do not paint over Underwriter's Laboratories, FMG or other code-required labels, or equipment name, identification,

performance rating, or nomenclature plates. F. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience. G. Detailed specifications for the various surfaces are shown in the F i n i s h Schedule. If these specifications conflict with the recommendations of the manufacturer, this discrepancy shall be brought to the attention of the Architect, the Architect shall decide which method shall be followed.

H. Refer to Finish Schedule for products and manufacturers, colors and finishes. I. Interior Paint, General: 1. High humidity and high use areas (including but not limited to Toilet rooms and Janitor Rooms) shall be coated with epoxy

2. Material Compatibility

a. Systems could fail if paints used for individual coats are incompatible. MPI's paintsystems match primers and topcoats and take compatibility into consideration. b. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under

conditions of service and application as demonstrated by manufacturer, based on testing and field experience. c. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

J. Interior Gypsum Board Primer: Factory-formulated latex-based primer for interior applications K. Interior Ferrous-Metal Primer: Factory-formulated quick-drying rust-inhibitive alkyd based metal primer.

L. Interior Zinc-Coated Metal Primer: Factory-formulated galvanized metal primer. M. Interior Latex Paint: Factory—formulated latex paint for interior application.

9.8 09 96 00 - HIGH-PERFORMANCE COATINGS

A. Paint all exposed surfaces, whether or not colors are designated, except where a surface or material is indicated not to be painted or is to remain natural. Where an item or surface is not mentioned, paint the same color as similar adjacent materials or surfaces. If color or finish is not designated, the Architect will select from standard colors or finishes available.

B. Painting is not required on pre-finished items, operating parts, or labels. 1. Labels: Do not paint over Underwriter's Laboratories, Factory Mutual or other coderequired labels, or equipment name,

identification, performance rating, or nomenclature plates. C. Material Compatibility: Provide block fillers, primers, finish coats, and related materials that are compatible with one another and the substrates indicated under conditions of service and application as demonstrated by the manufacturer based on testing and field

D. Exterior and Interior Pool and Ferrous Metals: All structural steel and metal fabrications, miscellaneous metal (including Lintels), handrails, uninsulated piping, mechanical and electrical equipment at exterior (including all component parts, but not including stainless steel or prefinished aluminum):

2. Field Application: a. SP3 power tool clean b. Finish (required at exposed items only): Color as selected by Architect. Apply one coat if spray applied, two coats if

1. Shop Priming: SP6 Commercial Blast

E. Exterior Steel Doors and Frames (Galvanized): 1. Factory Primer (By Door Manufacturer)

a. To be sanded or abraded as recommended by door manufacturer 2. Tie Coat

3. Back-prime frames and all edges at 2.0 mils DFT. 4. Finish: One coat (Semi-Gloss Color) at 3.0 mils DFT.

> Buildina Owner - Buildina Specific Specifications Not all specifications will apply to this io

> > If structural design is required for any work G.C. to procure structural design. Anuwhere that Architect is referenced for color, finish schedule or finish material

> > > selection should be replaced with Owner t

If applicable these specifications must be

ARCHITECTURAL **SPECIFICATIONS**

Theodore Schultz, Architect, LLC.

MENTS ERMIT 501

M M

<u>. 6</u> 0 0

STRI ANG

 \triangleleft

≥ > 5 ≥

© ☐ Ö

Z Z Z Ž

≻ ⊢

0

863 Santa Fe Drive

ted@tlsarchitect.com

303-875-8719

Denver, CO 80204

SHEET

```
PRODUCT SPECIFICATIONS CONT.
DIVISION 10 - SPECIALTIES
10.1 10 21 13 - TOILET COMPARTMENTS
       A. Steel Sheet: Commercial steel sheet for exposed applications; mill phosphatized and selected for smoothness.
             1. Electrolytically Zinc Coated: ASTM A 879/A 879M, 01Z (03G).
       B. Zamac: ASTM B 86, commercial zinc-alloy die castings.
       C. Concealed Anchorage Reinforcement: Minimum 12 gauge galvanized steel sheet.
       D. Concealed Tapping Reinforcement: Minimum 14 gauge galvanized steel sheet.
       E. Door, Panel, and Pilaster Construction: Seamless, metal facing sheets pressure laminated to core material; with continuous, interlocking
       molding strip or lapped-and-formed edge closures; corners secured by welding or clips and exposed welds ground smooth. Exposed surfaces
       shall be free of pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections.
             1. Core Material: Manufacturer's standard sound-deadening honeycomb of resin-impregnated kraft paper in thickness required to
              provide finished thickness of 1 inch (25 mm) for doors and panels and 1-1/4 inches (32 mm) for pilasters.
              2. Grab-Bar Reinforcement: Provide concealed internal reinforcement for grab bars mounted on units.
             3. Tapping Reinforcement: Provide concealed reinforcement for tapping (threading) at locations where machine screws are used for
              attaching items to units.
       F. Steel-Sheet Finish: Manufacturer's standard baked-on finish, with one color in each room; to be selected by Architect from
       manufacturer's full range.
       G. Pilaster Shoes: ASTM A167, Type 304 stainless steel, not less than 3" high, 20-gauge, finished to match hardware.
       H. Stirrup Brackets: Manufacturer's standard design for attaching panels to walls and pilasters, either chromium-plated non-ferrous cast
       alloy ("Zamac") or anodized aluminum.
       I. Hardware and Accessories: Manufacturer's standard design, heavy—duty operating hardware and accessories of stainless steel.
       J. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, finished to match hardware, with theft-resistant
       type heads and nuts. For concealed anchors, use hot-dip galvanized, cadmium-plated, or other rust-resistant protective-coated steel.
       K. Overhead Bracing: Continuous extruded aluminum, antigrip profile, with clear anodized finish.
10.2 10 26 00 - WALL AND DOOR PROTECTION
       A. Surface—Mounted, Resilient, Plastic Corner Guards: Assembly consisting of snap—on plastic cover installed over continuous retainer;
       including mounting hardware; fabricated with 90- or 135-degree turn to match wall condition.
       B. Cover: Extruded rigid plastic, minimum 0.100-inch wall thickness; clear; in dimensions and profiles indicated on Drawings
             1. Polycarbonate Plastic Sheet: ASTM D 6098, S-PC01, Class 1 or 2, abrasion resistant; with a minimum impact-resistance rating of
              15 ft-lbf/in, of notch when tested according to ASTM D 256. Test Method A.
       C. Retainer Clips: Manufacturer's standard impact—absorbing clips.
       D. Top and Bottom Caps: Prefabricated, injection-molded plastic; color matching cover; field adjustable for close alignment with snap-on
       E. Accessories — Provide all appropriate mounting systems including all screws, bolts, brackets, end caps, and base plates as required for
       complete installation.
10.3 10 28 00 - TOILET, BATH, AND LAUNDRY ACCESSORIES
       A. 18-8 (Type 302) stainless steel alloy of at least 22 gauge in all elements of cabinet work. Unless shown otherwise, all exposed stainless
       steel to have a #4 Satin finish or Satin chrome finish where applicable with all elements of a unit to have brushing in one direction.
      B. Mirrors to be 1/4" polished plate glass with 10-year guarantee against silver spoilage.
       C. Stainless steel tubing: 18 ga., Type 304, seamless welded.
       D. Finish: Satin stainless steel; exposed heads of fasteners shall match finish of accessory.
       E. Fabrication - Toilet Accessories - Provide steel anchor plates and anchor components for
       installation on building finishes. Form surfaces flat without distortion. Maintain flat surface without
       scratches or dents. Back paint components where contact is made with building finishes
       to prevent electrolysis. Hot dip galvanize ferrous metal anchors and fastening devices. Shop
       assemble components and package complete with anchors and fittings.
       F. Toilet and Bath Accessories: Manufacturer; American Specialties, Inc.
             1. Heavy duty shower curtain rod with exposed flanges: Model 1214
              2. Shower curtain hook: Model 1200-SHU
              3. Shower curtain: Model 1200-V (specify size)
              4. Compact rectangular phenolic fold-up shower seat: Model 8203
             5. Security safety towel/clothes hooks strip: Model 129
             6. Grab bar with flanges for concealed mounting: Model 3100
10.5 10 44 00 - FIRE PROTECTION SPECIALTIES
       A. Provide fire extinguishers, fire extinguisher cabinets, hose valve cabinet and accessories.
       B. Extinguishers:
               1. Multi—Purpose, Dry—Chemical Type: Steel Tank, pressurized, including hose and nozzle; 10—pound, ABC classification, UL 4A/60BC.
       C. Cabinets:
             1. Items specified below are by Larsen's Manufacturing Co. Equivalent products by listed manufacturer will be acceptable.
                    a. Semi-recessed Cabinet (FEC-1): "MP10" Extinguisher with "G-2409-6R"; semi-recessed cabinet, projecting 2-1/2", rough
                     opening of 10-1/2" x 25" x 4".
                    b. Hose Valve Cabinet (FVC): "MP10" Extinguisher with "GTVCS 3616 RL" Hose Valve Cabinet.
              2. Cabinet: 18 gauge steel with acrylic thermosetting enamel finish, flat trim type with continuous hinged 1/4" acrylic plastic "Gemini"
              series door with black vertical letters on white background stating equipment in cabinet.
                     a. Provide lock similar to "Larsen-Loc" on all cabinets.
              3. Color: Exterior and interior of cabinet box to be field painted.
              4. Provide text "FIRE EXTINGUISHER" on side of cabinet where required by code.
       D. Mounting Hardware: Appropriate to Cabinet
       E. Fabrication
              1. Form body of cabinet with tight inside corners and seams.
              2. Pre-drill holes for anchorage.
              3. Form perimeter trim and door stiles by welding, filling, and grinding smooth.
              4. Hinge doors for 180 degree opening with continuous piano hinge. Provide pull handle and roller type catch.
      F. Finishes
              1. Extinguishers: Red Enamel
DIVISION 12 - FURNISHINGS
12.1 12 36 23 - PLASTIC COUNTERTOPS
       A. Provide plastic laminate countertops, backsplashes and aprons.
       B. Plastic Laminate: Shall be standard grade, 1/16" thick, general purpose material complying with current NEMA LD-3 Grade HGS for flat
       countertops and HGP for postformed. Comply with ANSI A161.2. Pattern and color shown in Finish Schedule.
       C. Countertops and Edging: 3/4" B-C particleboard (except at sinks, use exterior grade plywood only) with plastic laminate bonded to tops.
       D. Plastic Laminate Work:
             1. Where shown as self edged, countertops shall have 3/4" x 4" high square—edged separate matching backsplash and matching
              aprons with same grade of laminate as top surface unless indicated otherwise.
                     a. Apply trim and edging prior to surface sheet.
                     b. Apply veneers or plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Make corners and
                      joints hairline. Locate counter butt joints minimum 2 feet from sink cut-outs.
             2. Counters and work tops with sinks: Substrate for back splashes and at edges shall be trimmed lumber. Use only exterior grade
             or marine grade Plywood near wet areas. All adhesives used near water shall be formulated to be specially water—resistant.
       E. Installation Materials
             1. Furring, Blocking, Shims, and Hanging Strips: Fire—retardant—treated Softwood or hardwood lumber, kiln—dried to less than 15
              2. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide nonferrous-metal or
              hot-dip aglyanized anchors and inserts on inside face of exterior walls and elsewhere as required for corrosion resistance. Provide
              toothed steel or lead expansion sleeves for drilled-in-place anchors.
       F. Fabrication
             1. Shop assemble countertops for delivery to site in units easily handled and to permit passage through building openings.
              2. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trip for scribing and site
             3. Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes, and other fixtures and fittings.
12.2 12 48 13 - ENTRANCE FLOOR MAT
       A. Provide Surface-Mounted Floor Mat: Carpet tile walk-off mat.
DIVISION 22 - PLUMBING
Per Mechanical Drawings and Specifications
DIVISION 23 - HVAC
Per Mechanical Drawings and Specifications
DIVISION 26 - ELECTRICAL
Per Electrical Drawings and Specifications
DIVISION 27 - COMMUNICATIONS
Per Electrical Drawings and Specifications
```

DIVISION 28 -ELECTRONIC SAFETY AND SECURITY

Per Security Drawings and Specifications

```
Theodore Schultz, Architect, LLC.
863 Santa Fe Drive
Denver, CO 80204
ted@tlsarchitect.com
303-875-8719
```

723 MAIN STREET
ROYALTY ARRANGEMENTS
(UNIT 1 OCCUPANCY PERMIT)
LONGMONT, CO 80501

CONCEPT 3.7.2

Not all specifications will apply to this job.

If applicable these specifications must be followed.

ARCHI

If structural design is required for any work

G.C. to procure structural design.

Anywhere that Architect is referenced for

cdor, finish schedule or finish material

selection should be replaced with Owner to

Building Owner - Building Specific Specifications

ARCHITECTURAL SPECIFICATIONS tructural design.

A0.9



SEMENTS Y PERMIT) S 80501

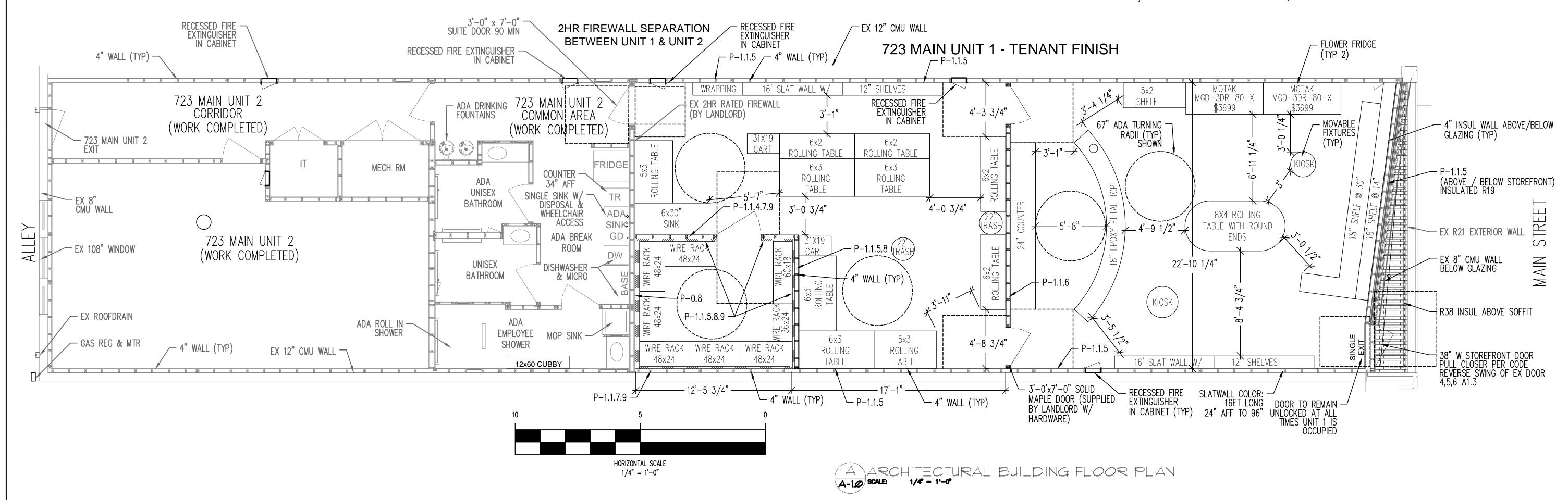
TREE

PERMIT UNIT 1 NOTES

1) TENANT SHALL SELECT DESIRED FINISH OF EXISTING CONCRETE FLOOR 2) EXPOSED CEILING SPRAY FOAM INSULATION SHALL BE COATED WITH AN INTUMESCENT 15 MINUTE THERMAL BARRIER: LAPOLLA INDUSTRIES DC-315, FOAM

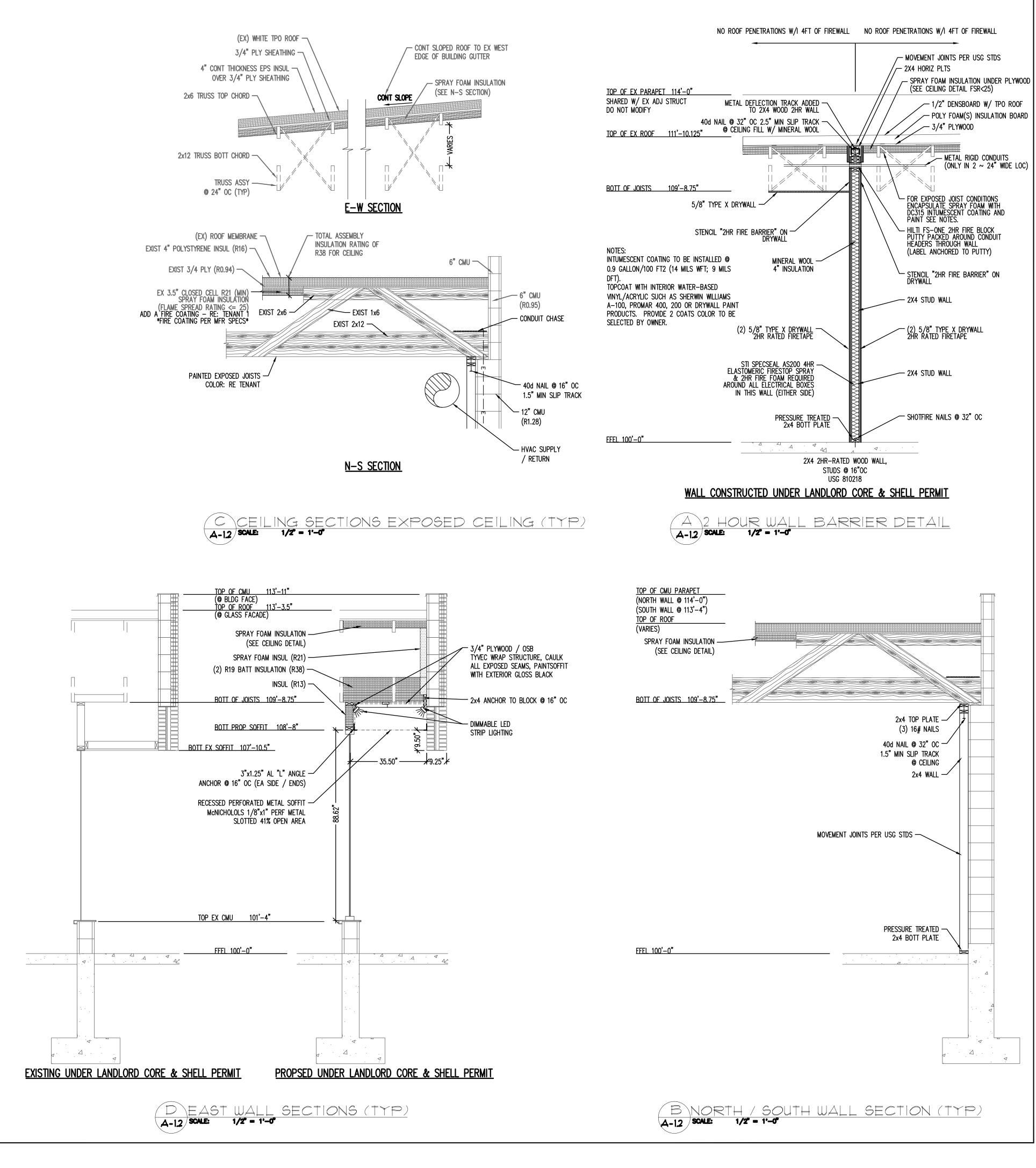
LOK 2000-4G OR EQ. 3) CEILING JOISTS, TRUSSES, CONDUIT, CONCRETE BLOCKS & INTUMESCENT PAINT SHALL BE SPRAYED WITH 2 COATS OF CHARCOAL GREY LATEX SATIN PAINT (OWNER

TO APPROVE FINAL COLOR) 4) PRIOR TO PAINTING CEILING OR WALLS, CLEAN THOROUGHLY WITH COMPRESSED AIR



	WALL PARTITIONS										
PARTITION #	WALL PARTITION DESC	.1	.2	.3	.4	.5	.6	.7	.8	.9	
P-1	2X4 NON-RATED WOOD WALL, STUDS @ 16"OC	TO CEILING	TO STRUCTURE	1/2" ROCK BOARD TO 48" AFF	1/2" ROCK BOARD TO STRUCTURE 1/8" SHIM STUDS	5/8" GYP ONE SIDE	5/8" GYP EA SIDE	2" COOLER INSUL ONE SIDE W/ VAPOR BARRIER	4" COOLER INSUL ONE SIDE W/ VAPOR BARRIER	CLASS A SPRAY FOAM FILL	

FLOOR PLAN



(EX) 3/4 PLYWOOD DECKING (R0.94)

(EX) 15" MIN (VARIES) AIR SPACE

SPRAY FOAM INSULATION (FLAME SPREAD RATING <= 25)

5/8" SHEET ROCK (R0.5625)

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

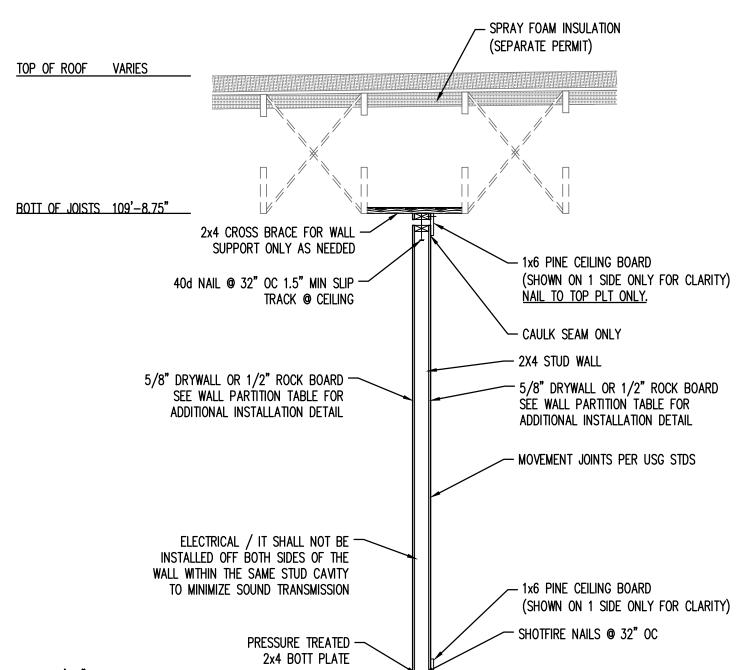
SPRAY FOAM INSULATION (TYP)

SPRAY FOAM INSULATION (SEPARATE PERMIT)

(EX) TPO ROOF MEMBRANE —

(EX) 1/2" DENSBOARD DECKING (R0.56) — (EX) 4" POLYSTYRENE INSUL (R16) —

(EX) 1" FIBERBOARD INSULATION (R6) -



E PARTITION WALL SECTION (TYP)

A-12 SCALE: 1/2 = 1'-0'

s:\723 Main\Construction\723-1-A12- WALL SECTIC

723 MAIN STREET
ROYALTY ARRANGEMENTS
(UNIT 1 OCCUPANCY PERMIT)
LONGMONT, CO 80501

Theodore Schultz, Architect, LLC.

863 Santa Fe Drive Denver, CO 80204

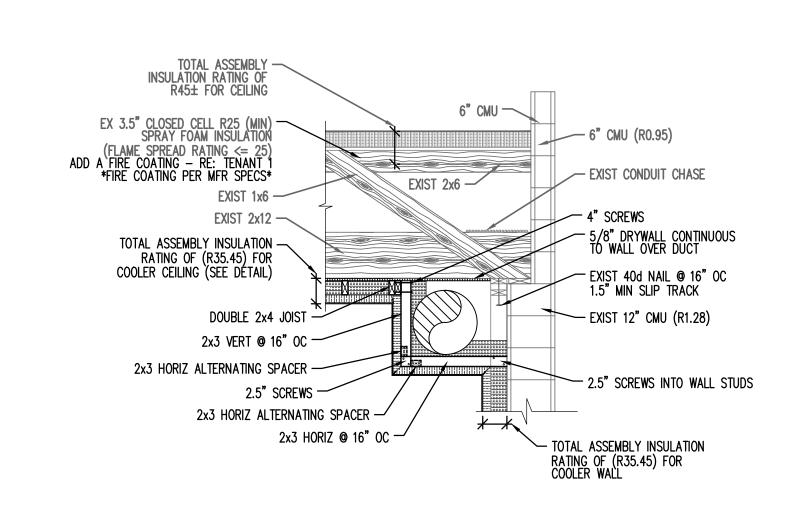
ted@tlsarchitect.com

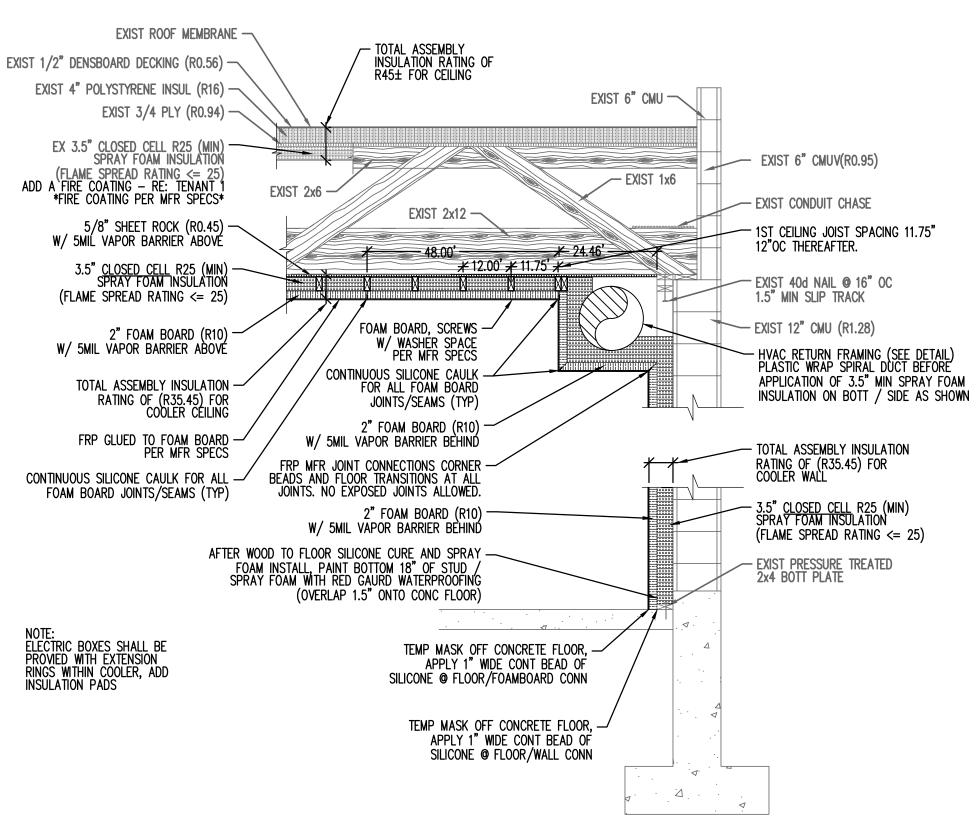
303-875-8719

PROJECT No. 723—FLW
DESIGN BY: CW
CHECKED BY: CW
ISSUED FOR: DATE
CONCEPT 3.7.202

WALL & CEILING SECTIONS

SHEET **A1.2**





A-1.2 SCALE:

723 MAIN STREET
ROYALTY ARRANGEMENTS
(UNIT 1 OCCUPANCY PERMIT)
LONGMONT, CO 80501

Theodore Schultz, Architect, LLC.

863 Santa Fe Drive

Denver, CO 80204 ted@tlsarchitect.com

303-875-8719

J COOLER CEILING HYAC DUCT DETAIL (TYP)

A-12 SCALE: 1/2 - 1'-0"

COOLER INSTALL
SECTIONS

PROJECT NO. 723-FLWI
DESIGN BY: CWI
CHECKED BY: CWI
ISSUED FOR: DATE
CONCEPT 3.7.2023

A1.3

G:\723 Main\Construction\723-1-A12- WALL SECTIONS.dv

ING / EXTERIOR WALL DETAIL (TYP)

ELECTRICAL GENERAL NOTES

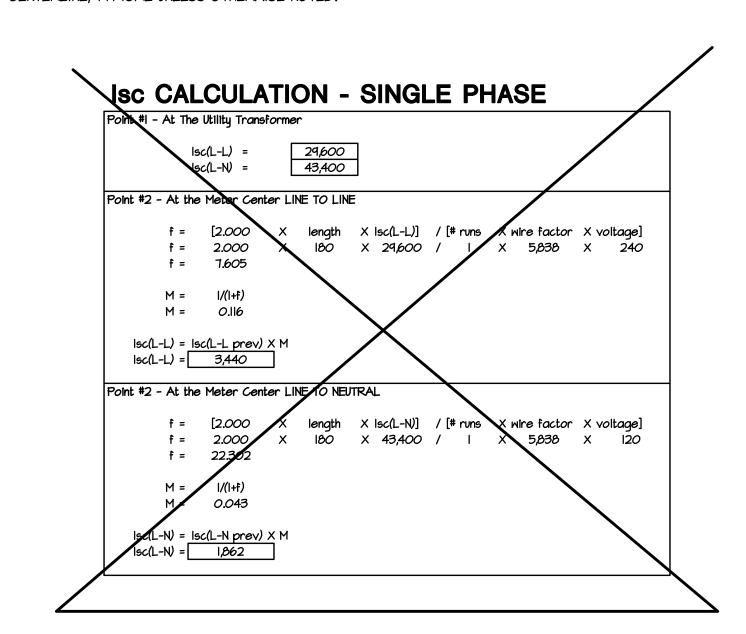
- I. PRIOR TO SUBMITTING BIDS, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING ELECTRICAL EQUIPMENT CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. FIELD VERIFY QUANTITIES OF EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES, COMMUNICATION DEVICES, FIRE ALARM DEVICES, AND ELECTRICAL EQUIPMENT. NOTIFY THE ARCHITECT AND ENGINEER OF ANY EXISTING CONDITIONS, WHICH MODIFY THE SCOPE OF WORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS. SUBMISSION OF A BID PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR MOBILIZATION, LABOR, EQUIPMENT, AND/OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- 2. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE WITH OWNER REPRESENTATIVES. ALL ELECTRICAL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM WITH LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, UNIFORM BUILDING CODE OR INTERNATIONAL BUILDING CODE, LOCAL BUILDING AND FIRE DEPARTMENT REQUIREMENTS. PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF OWNER REPRESENTATIVES.
- 3. ELECTRICAL CONTRACTOR SHALL MAINTAIN ON THE JOB AN UP TO DATE SET OF WORKING DRAWINGS, MARKED UP TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. PROVIDE TENANT REPRESENTATIVES WITH ONE SET OF REPRODUCIBLES WITH "AS BUILT" PROJECT RECORD INFORMATION CLEARLY INDICATED. ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LOCAL FEES, PERMITS, AND SERVICES OF INSPECTION AUTHORITIES REQUIRED BY ELECTRICAL WORK FOR THIS ELECTRICAL CONSTRUCTION.
- 4. REFER TO ARCHITECTURAL AND MECHANICAL EQUIPMENT DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL DEVICES AND LIGHT FIXTURES. DO NOT SCALE FROM THE ELECTRICAL PLANS. ADDITIONAL ELECTRICAL REQUIREMENTS ON ARCHITECTURAL PLANS, KITCHEN EQUIPMENT PLANS, AND MECHANICAL PLANS SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BID.
- 5. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SHALL BE SUBJECT TO MINOR MODIFICATIONS AS DIRECTED BY THE GENERAL CONTRACTOR AND OWNER REPRESENTATIVES. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT FITTING OF ALL MATERIALS, EQUIPMENT, ETC., IN THE BUILDING AND TENANT SPACE. ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB. ELECTRICAL CONTRACTOR SHALL CUT, CHANNEL, CHASE, AND/OR DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, OR OTHER SURFACES AS REQUIRED FOR INSTALLATION, SUPPORT, ANCHORAGE, ETC., OF WORK. PROVIDE X-RAY OF FLOOR PRIOR TO CORE DRILLS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBSEQUENT PATCHING WORK.
- 6. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CHANGES REQUIRED BY THE BUILDING MANAGEMENT AND TENANT REPRESENTATIVES. DEMOLITION OR ABANDONING ANY ELECTRICAL AND COMMUNICATIONS CONDUIT, WIRING, CABLING, OR DEVICE MEANS TO REMOVE IN ITS ENTIRETY. REMOVE UNUSED CONDUITS FROM CEILING SPACES IN AREAS OF WORK. ABANDONED OUTLET JUNCTION BOXES ARE TO BE REMOVED AND COVERED WITH NEW GYPSUM BOARD. ABANDONED POKE THRU OUTLETS SHALL HAVE COVER PLATES AND BE FILLED WITH FIRE RATED FOAM SEALANT TO MAINTAIN FIRE RATING OF FLOOR. RETURN UNUSED ELECTRICAL EQUIPMENT AND LIGHT FIXTURES TO BUILDING MANAGEMENT FOR STORAGE AND/OR REMOVAL FROM SITE AS DIRECTED BY OWNERS.
- 7. ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING BRANCH CIRCUIT CONDUIT AND WIRING WHERE POSSIBLE. RE-ROUTE AND EXTEND AS NECESSARY FOR THIS TENANT FINISH CONSTRUCTION. PROVIDE ADDITIONAL NEW CONDUIT, WIRING, COMPONENTS, AND CONNECTIONS AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS, TYPICAL.
- 8. PROVIDE UPDATED, COMPLETE AND ACCURATE TYPED PANELBOARD CIRCUIT DIRECTORIES AT THE COMPLETION OF WORK. CLEAN EXPOSED PANELBOARD SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AS REQUIRED AND PROVIDE FILLER PLATES FOR VACANT SPACES.
- PROVIDE UPDATED LABELING OF ALL NEW AND RELOCATED ELECTRICAL EQUIPMENT IN SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, ENGINE GENERATOR SYSTEMS, TRANSFER SWITCHES, TRANSFORMERS, SWITCHGEAR, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, AND DISCONNECTS TO INDICATE THE AMPERE RATING, VOLTAGE RATING, PHASE, CONDUCTOR COLOR CODING WITHIN THE EQUIPMENT AND APPLICABLE AIC RATING.
- IO. WIRING DEVICES SHALL BE SPECIFICATION GRADE; 20 AMP FOR GENERAL APPLICATION, 20 AMP OR GREATER FOR DEDICATED CIRCUITS AND AS REQUIRED BY CIRCUIT LOAD. LEVITON #5362 RECEPTACLES, 5362-IG (ORANGE) ISOLATED GROUND RECEPTACLES, and #1221 SWITCHES (OR EQUAL). COLOR TO MATCH EXISTING BUILDING STANDARD OR PROVIDE (WHITE) UNLESS OTHERWISE NOTED. PROVIDE MATCHING COLOR NYLON COVER PLATES FOR ALL OUTLETS. ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLETS WITH ARCHITECTURAL PLANS AND TENANT BEFORE ORDERING AND PURCHASING OF MATERIALS, TYPICAL.
- ALL 15 AMPERE AND 20 AMPERE, 125 VOLT AND 250 VOLT NON-LOCKING RECEPTACLES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE LISTED AS WEATHER-RESISTANT PER **2020 NEC, ARTICLE 406.9 (A) AND (B)**. ALL RECEPTACLES MOUNTED IN WET LOCATIONS AS REFERENCED ABOVE SHALL HAVE AN "IN-USE" WEATHERPROOF COVER.
- 2. ALL 125 VOLT, SINGLE PHASE, 15 AND 20 AMPERE RECEPTACLES INSTALLED IN OTHER THAN DWELLING UNITS SHALL HAVE GFCI PROTECTION FOR PERSONNEL IN THE FOLLOWING AREAS: BATHROOMS, KITCHENS (AREAS WITH A SINK AND PERMANENT FACILITIES FOR FOOD PREPARATION AND COOKING), ROOFTOPS, OUTDOORS AND WITHIN 6 FEET FROM THE OUTSIDE EDGE OF SINKS, PER 2020 NEC 210.8 (B).

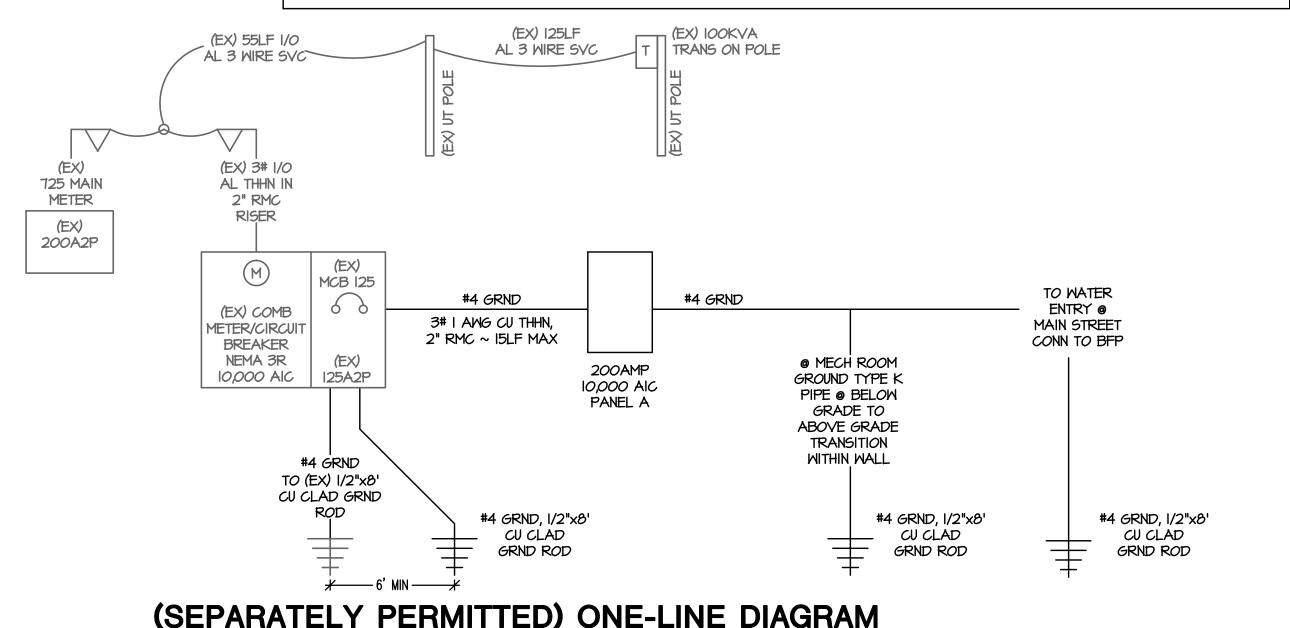
- 13. ALL WALL MOUNTED OUTLETS SHALL BE OFFSET SO THEY ARE NOT BACK TO BACK FOR SOUND TRANSMISSION PURPOSES. A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES SHALL SEPARATE OUTLET BOXES ON OPPOSITE SIDES OF WALLS AND PARTITIONS. GANG MOUNT ELECTRICAL AND COMMUNICATIONS OUTLETS ON WALLS AS CLOSE TOGETHER AS POSSIBLE, TYPICAL.
- 14. FIRE RESISTIVE WALLS AND OPENINGS MAY HAVE OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES IN AREA, PROVIDED THE AGGREGATE AREA OF SUCH OPENINGS IS NOT MORE THAN IOO SQUARE INCHES FOR ANY IOO SQUARE FEET OF WALL, TYPICAL.
- IS. ALL CONDUCTORS SHALL BE THHN/THWN INSULATED COPPER UNLESS OTHERWISE NOTED ON THE DRAWINGS. #12 AWG FOR 120 VOLT, 20 AMPERE CIRCUITS, 75 FEET OR LESS; #12 AWG FOR 277 VOLT, 20 AMPERE CIRCUITS, 150 FEET OR LESS TO FIRST DEVICE, TYPE THHN OR THWN INSULATION. PROVIDE WIRE COLOR CODING AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. ALL WIRING SHALL BE RUN CONCEALED AND IN EMT CONDUIT. ALL HOMERUNS SHALL BE IN EMT CONDUIT. ELECTRICAL CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM DESIGN ENGINEER AND PROPERTY MANAGEMENT FOR USE OF "MC" AND "AC" TYPE CABLING. "MC" AND "AC" TYPE CABLE SHALL BE PERMITTED FOR BRANCH CIRCUIT WIRING IN APPROVED LOCATIONS ONLY AND INSTALLED PER NATIONAL ELECTRICAL CODE AND LOCAL BUILDING DEPARTMENT REQUIREMENTS. USE APPROVED TYPE COUPLINGS AND CONNECTORS. PROVIDE CONDUIT SUPPORTS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AS A MINIMUM. ALL EMPTY CONDUITS INDICATED ON THE DRAWINGS SHALL BE SUPPLIED WITH NYLON PULL LINES.
- I6. ELECTRICAL CONTRACTOR SHALL USE #IO AWG CU WIRE WHEN LENGTH OF CONDUCTOR EXCEEDS 75 FEET FOR I20 VOLT, 20 AMP CIRCUITS. ADDITIONAL LENGHT OF WIRE FROM 75 FEET TO I50 FEET SHALL USE #I2 AWG CU WIRE. SIZE CONDUCTORS FOR MINIMUM VOLTAGE DROP ALLOWED PER THE NATIONAL ELECTRICAL CODE.
- 17. ELECTRICAL CONTRACTOR SHALL USE #10 AWG CU WIRE WHEN LENGTH OF CONDUCTOR EXCEEDS 150 FEET FOR 277 VOLT, 20 AMP CIRCUITS. SIZE CONDUCTORS FOR MINIMUM VOLTAGE DROP ALLOWED PER THE NATIONAL ELECTRICAL CODE.
- 18. ELECTRICAL CONTRACTOR SHALL USE #8 AWG CU WIRE WHEN LENGTH OF CONDUCTOR EXCEEDS 150 FEET FOR 120 VOLT, 20 AMP CIRCUITS. ADDITIONAL LENGHT OF WIRE FROM 150 FEET TO 225 FEET SHALL USE #12 AWG CU WIRE. SIZE CONDUCTORS FOR MINIMUM VOLTAGE DROP ALLOWED PER THE NATIONAL ELECTRICAL CODE.
- 19. ALL JUNCTION BOX COVERS SHALL BE INDELIBLY LABELED WITH PANEL DESIGNATION AND BRANCH CIRCUIT NUMBER OF EACH WIRE WITHIN THE JUNCTION BOX. ALL HOME RUNS SHALL BE IN EMT CONDUIT, TYPICAL.
- 20. NEUTRALS, RACEWAYS, AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE HARD WIRED GROUND CONNECTIONS TO ALL DEVICES AND SEPARATE INSULATED GROUND WIRE CONTINUOUS IN EACH CIRCUIT (#12 AWG CU MINIMUM "GREEN" TRACER GROUND).
- 21. CIRCUITS FOR COMPUTERS, COPIERS, AND PRINTERS, WHICH ARE SEMI-DEDICATED, DEDICATED, OR ISOLATED, SHALL HAVE A SEPARATE NEUTRAL AND GROUND CONDUCTORS RUN FROM THE BRANCH CIRCUIT PANEL BOARD.
- 22. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY FROM STRUCTURE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF LIGHT FIXTURES AND ELECTRICAL DEVICES.
- 23. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL ROOMS/SPACES WITH MECHANICAL DUCT WORK INSTALLER PRIOR TO ROUGH IN. LOCATE BELOW DUCT WORK (8'-O" A.F.F. MIN.) CENTERED IN ROOM AS MUCH AS POSSIBLE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH MECHANICAL PLANS, MECHANICAL CONTRACTOR, AND ACTUAL MECHANICAL EQUIPMENT SUPPLIED. INCLUDE ALL REQUIRED OUTLETS; HEAVY DUTY DISCONNECT SWITCHES, FUSES, CONTROLS, CONTROL WIRING AND ALL CONNECTIONS IN THE ELECTRICAL BID.
- 24. VERIFY ALL SPECIFIC KITCHEN EQUIPMENT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN. COORDINATION SHALL INCLUDE MOUNTING HEIGHTS, CONNECTION TYPE AND POWER REQUIREMENTS. ALL CONNECTIONS FOR KITCHEN EQUIPMENT SHALL BE IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS.
- 25. VERIFY ALL SPECIFIC COMPUTER AND COMMUNICATIONS EQUIPMENT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN. COORDINATION SHALL INCLUDE MOUNTING HEIGHTS, CONNECTION TYPE AND POWER REQUIREMENTS. ALL CONNECTIONS FOR COMPUTER AND COMMUNICATIONS EQUIPMENT SHALL BE IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS.
- 26. ALL NEW LIGHT SWITCHES, RECEPTACLE OUTLETS, TELEPHONE OUTLETS, FIRE ALARM DEVICES, AND COMMUNICATION/DATA OUTLETS SHALL MEET THE REQUIREMENTS FOR AMERICANS WITH DISABILITIES (A.D.A.) AND ANSI AIIT.I REQUIREMENTS FOR MOUNTING HEIGHTS AND ORIENTATIONS, TYPICAL UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE A MINIMUM OF 15" A.F.F. AND SWITCHES A MAXIMUM OF 48" A.F.F. TO CENTERLINE, TYPICAL UNLESS OTHERWISE NOTED.

- 27. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL ELECTRICAL DEVICES LOCATED WITHIN, ABOVE, OR NEAR MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED "SHOP DRAWINGS", AND MILLWORK CONTRACTOR. MAINTAIN CONSISTENT MOUNTING PRACTICES FOR A UNIFORM APPEARANCE. VERIFY ALL OUTLET REQUIREMENTS PRIOR TO ROUGH IN.
- 28. PROVIDE 4" SQUARE (DOUBLE GANG) JUNCTION BOX WITH SINGLE GANG PLASTER RING FOR ALL NEW COMBINATION TELEPHONE/DATA OUTLETS. RUN CONDUIT AND STUB INTO IT / DATA ROOM VIA ABOVE CEILING ACCESSIBLE CONDUIT WITH PULL WIRE IN CONDUIT AND PLASTIC BUSHINGS ON CONDUIT ENDS. ALL COMMUNICATION DEVICES AND WIRING FOR THE TENANT'S COMMUNICATION SYSTEM SHALL BE INSTALLED BY THE TENANT'S VENDOR UNDER SEPARATE CONTRACT. COORDINATE EXACT REQUIREMENTS AND OUTLET LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH IN, TYPICAL.
- 29. ELECTRICAL CONTRACTOR SHALL FULLY FIELD COORDINATE COMMUNICATIONS SYSTEM INSTALLATION (DEVICES AND CABLING) WITH TENANT REPRESENTATIVES PRIOR TO ROUGH-IN AND PURCHASING OF MATERIALS, TYPICAL.
- 30. FIRE ALARM DEVICE LOCATIONS ON THE DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NOT NECESSARILY INDICATE EVERY REQUIRED PIECE OF EQUIPMENT AND DEVICE. ITEMS NOT SPECIFICALLY NOTED ON THE DRAWINGS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION IN ACCORDANCE WITH CODE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION SHALL BE INCLUDED. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING A SYSTEM THAT MEETS ALL NATIONAL AND LOCAL CODES. ALL FIRE ALARM SYSTEM MODIFICATIONS AND WIRING TO BE PERFORMED BY TENANT AND/OR BUILDING MANAGEMENT APPROVED FIRE ALARM CONTRACTOR. CONNECT DEVICES TO FIRE ALARM ZONES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE 120 VOLT CIRCUIT FOR ADDITIONAL FIRE ALARM BOOSTER PANELS IF REQUIRED FOR NEW FIRE ALARM DEVICES. PROVIDE SPOT SMOKE DETECTOR ABOVE ADDITIONAL FIRE ALARM BOOSTER PANELS. AFTER THE INSTALLATION IS COMPLETE, TENANT'S FIRE ALARM SYSTEM REPRESENTATIVE SHALL TEST THE ENTIRE FIRE ALARM SYSTEM FOR SYSTEM INTEGRITY AND OPERATION.
- 31. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FULLY ENGINEERED FIRE ALARM SHOP DRAWINGS FOR REVIEW BY THE LOCAL BUILDING AND FIRE DEPARTMENT. THE FIRE ALARM SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE PROJECT'S STATE.
- 32. ELECTRICAL CONTRACTOR SHALL PROVIDE PRODUCT LITERATURE INFORMATION ON SITE FOR FIELD INSPECTOR REGARDING FIRE RATING OF FLOOR BOXES AND POKE THRU DEVICES.
- 33. ALL FLOOR AND WALL PENETRATIONS WHERE ELECTRICAL DEVICES AND RACEWAY HAVE BEEN REMOVED MUST BE REPAIRED AND SEALED TO MAINTAIN THE REQUIRED FIRE RATING. ALL LUMINAIRES PENETRATING A ONE HOUR FIRE RESISTIVE ENCLOSURE SHALL BE PROPERLY TENTED TO MAINTAIN FIRE RATING OF THE ENCLOSURE. ALL CONDUITS PENETRATING A ONE HOUR FIRE RATED WALL OR CEILING SHALL BE FIRE STOPPED WITH A U.L. LISTED FIRE STOPPING COMPOUND SEALANT.
- 34. MINIMUM WORKING CLEARANCES PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE SHALL BE PROVIDED AROUND AND IN FRONT OF ALL ELECTRICAL EQUIPMENT.
- 35. ALL CIRCUIT BREAKER LUGS SHALL BE RATED FOR A MINIMUM OF 75 DEGREE CELSIUS.
- 36. MAINTAIN LIGHTING CIRCUIT AND SWITCHING CONTROL CONTINUITY IN ADJACENT VACANT AND NON-VACANT SUITES TO PROJECT.
- 37. MAINTAIN RECEPTACLE CIRCUIT CONTINUITY THROUGH WALLS WHICH ARE TO BE DEMOLISHED AND THROUGH RECEPTACLES WHICH ARE TO BE REMOVED.
- 3. COORDINATE CONTROL OF LUMINAIRES IN BUILDING COMMON CORRIDOR AREAS WITH BUILDING MANAGEMENT.
- 39. ALL NEW LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS SHALL BE NON BALLASTED LED THAT CAN BE SERVICED IN PLACE.
- 40. ALL NEW AND MODIFIED ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT ARE IN OTHER THAN DWELLING OCCUPANCIES, AND ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT PER NEC 2020, ARTICLE 110.16.

ELECTRICAL SYMBOLS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
HOMERUN, SOLID 120/208 ∨, OPEN 277/480 ∨		RECESSED FLUORESCENT / LED FIXTURE	
CONDUIT RISER; TURNED UP, TURNED DOWN	 ○ ●	SURFACE/PENDANT FLUORESCENT / LED FIXTURE	0
JUNCTION BOX; CEILING OR WALL	()	FLUORESCENT / LED STRIP FIXTURE	⊢ О──I
JUNCTION BOX; WITH COVER PLATE	0	DOWNLIGHT/PENDANT FIXTURE	
SIMPLEX RECEPTACLE	Φ	DROP CEILING LIGHT (RECESSED)	•
DUPLEX RECEPTACLE	Φ	WALL MOUNTED FIXTURE	Ю
DOUBLE DUPLEX RECEPTACLE	**	WALLWASH FIXTURE	O +
DUPLEX RECEPTACLE ON DEDICATED CIRCUIT	P	EXIT SIGN WITH "FROG EYE"	₩
SPECIAL RECEPTACLE - AS NOTED ON PLANS		TRACK LIGHTING	_
TELEPHONE OUTLET, SINGLE GANG BOX, 3/4" CONDUIT STUB TO ACCESSIBLE CEILING.	▼	EXIT SIGN	⊗
DATA OUTLET, SINGLE GANG BOX, 3/4" CONDUIT STUB TO ACCESSIBLE CEILING.	∇	EMERGENCY BATTERY PACK, "FROG EYE"	
COMBINATION TELE/DATA OUTLET, SINGLE GANG BOX, 3/4" CONDUIT, STUB TO ACCESSIBLE CEILING.	A	POLE MOUNTED OUTDOOR FIXTURE	—
COMBINATION POWER/COMMUNICATIONS FLOOR BOX	7 •	SMITCH, SINGLE POLE	5
POKE THRU DEVICE	•	TWO POLE SWITCH	S ₂
COMBINATION TELEPHONE/DATA FLOOR BOX		THREE WAY SWITCH	S3
ELEPHONE FLOOR BOX	•	FOUR WAY SWITCH	S ₄
NATER HEATER	(MH)	KEYED SWITCH	Sk
PANELBOARD		DIMMER SWITCH	Sp
5WITCHBOARD		THERMAL OVERLOAD SWITCH	Sto
DISCONNECT SMITCH, NON-FUSED		SMITCH WITH PILOT LIGHT	Sp
DISCONNECT SMITCH, FUSED		FIRE HORN WITH STROBE LIGHT	EK
TRANSFORMER	TF	MANUAL PULL STATION/FLOW AND TAMPER	
MOTOR STARTER	\boxtimes	SMOKE DETECTOR	S
CARD READER	CR	HEAT DETECTOR	$\overline{\mathbb{H}}$
MOTOR	<u> </u>	CEILING MOUNTED FIRE ALARM SPEAKER	
PULLBOX	PB	CEILING MOUNTED FIRE ALARM SPEAKER/STROBE	F
TIME CLOCK	<u>го</u>	CEILING/WALL MOUNTED FIRE ALARM STROBE	 ⇒
METER	 (<u>\text{\tint{\text{\tin}\text{\tex{\tex</u>	REMOTE LAMP	<u> </u>
DISCONNECT SMITCH & FUSE (DIAGRAMMATIC)		DUCT DETECTOR	F-
CURRENT TRANSFORMER; CT'S (DIAGRAMMATIC)		FIRE/SMOKE DAMPER	_
CIRCUIT BREAKER (DIAGRAMMATIC)	•	WALL MOUNTED OCCUPANCY SENSOR	
PHOTOCELL	P	CEILING MOUNTED OCCUPANCY SENSOR	
TELEVISION CABLE OUTLET	lacksquare	EXHAUST FAN	$\frac{\sim}{\sim}$
ABBREVIATIONS: AC ABOVE COUNTER GFI/GF AFF ABOVE FINISHED FLOOR NL EWH ELECTRIC WATER HEATER RL GND GROUND SM	FCI GROUND FAI NIGHT LIGHT	ULT CIRCUIT INTERRUPTER T/D TELE/DATA TR TAMPER RE DEVICE OR EQUIPMENT WP WEATHER P	





BREAKER WIRING LENGTHS

BREAKER -

GROUND SHALL BE

NEAR ASSOCIATED

CIRCUIT BREAKER

CONNECTED TO PANEL

BREAKER

SCALE: AS SHOWN

NEUTRAL SHALL BE

ASSOCIATED CIRCUIT

BREAKER IF NEEDED

CONNECTED TO PANEL NEAR

BREAKER W/ ENOUGH SLACK

TO CONNECT TO GFI OR AFCI

SCALE: AS SHOWN

NOTE: ALL ITEMS ARE EXISTING UNLESS OTHERWISE NOTED.

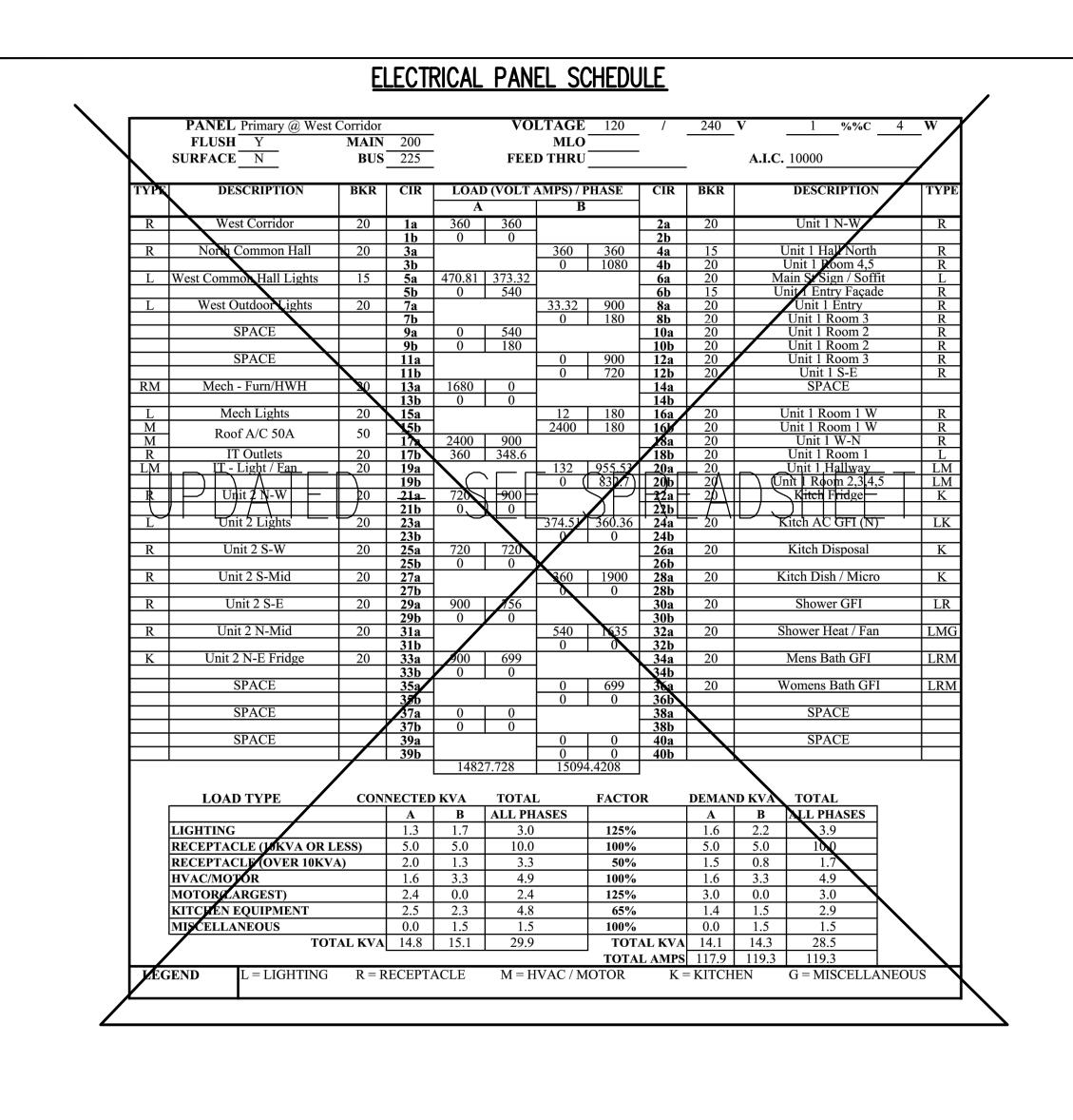
ALL CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.

Theodore Schultz, Architect, LLC.

863 Santa Fe Drive
Denver, CO 80204
ted@tlsarchitect.com
303-875-8719

& ONE-LINE DIAGRAM
SHEET

LEGEND

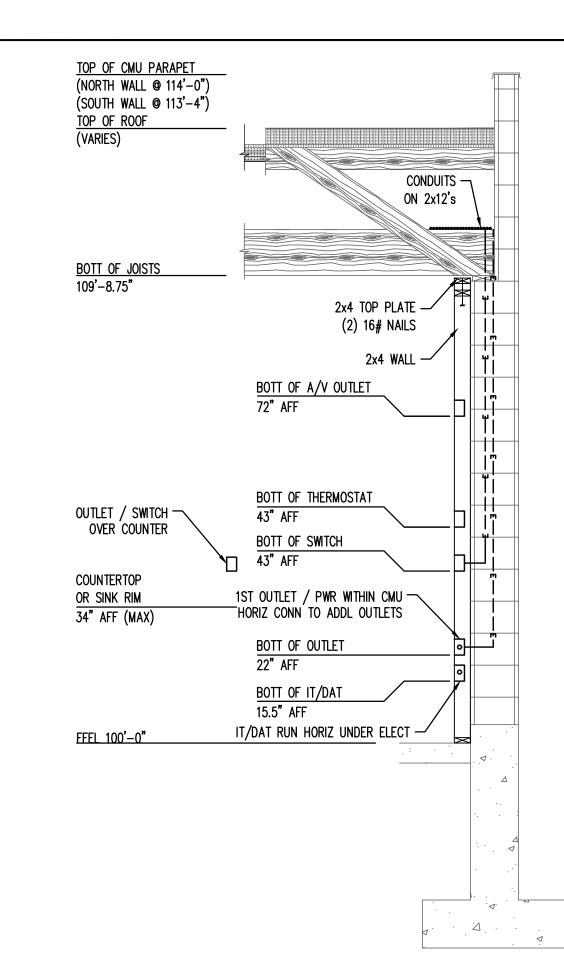


EXISTING PERMIT #'S:
32922
M18927
(PERMITS PLUS SYSTEM)
B200101436 (A/C UPGRADE)
B200101952 (ELECT 60A-125A UPGRADE)
sn20030068 - Embrioder me sign plaque

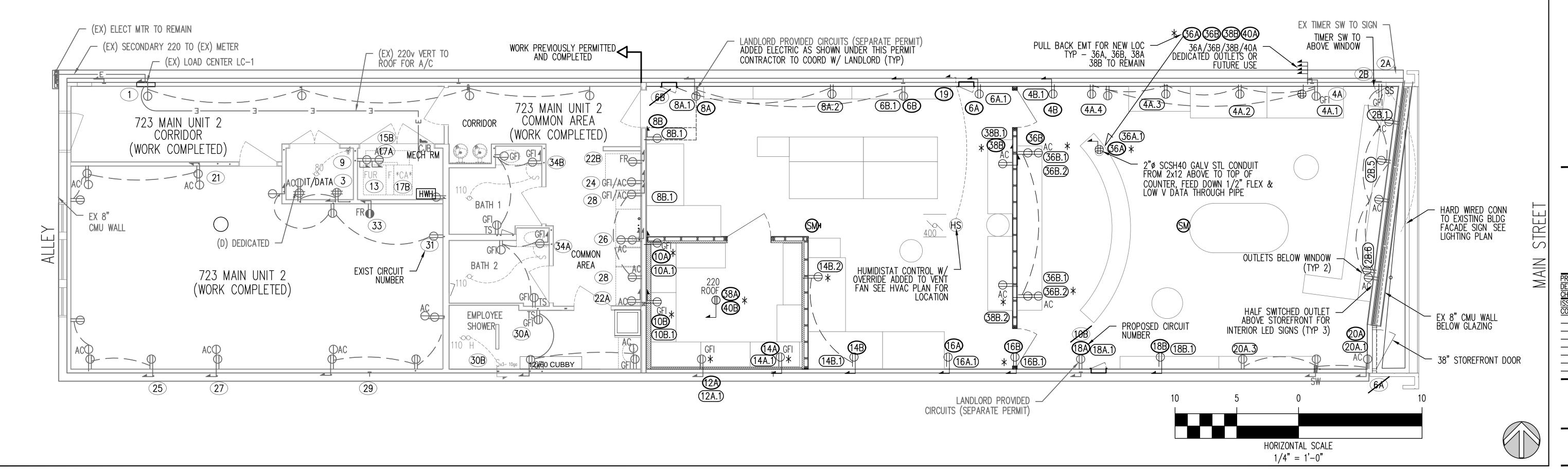
WHITE = (-) NEUTRAL
BLACK = (+) 110V (1ST LEG)
RED = (+) 110V (2ND LEG)
BLUE = (+) 110V (3RD LEG)
PURPLE = (+) SW LEG 1
ORANGE = (+) SW LEG 2
YELLOW = SMOKE COMMON
<< 5 CIRCUITS IN SINGLE CONDUIT NOT ALLOWED>>
GREEN = GROUND

CONDUIT & WIRING COLOR CODES SPECIFICATIONS

MAX 3 CIRCUITS PER 1/2" EMT
MAX 5 CIRCUITS PER 3/4" EMT
MAX 1 6-3 W/ GROUND PER 3/4" EMT
NO COMBINED NEUTRAL / GROUND CIRCUITS



E1 ELECTRICAL MOUNTING HEIGHTS (TYP)



723 MAIN STREET
ROYALTY ARRANGEMENTS
(UNIT 1 OCCUPANCY PERMIT)
LONGMONT, CO 80501

Theodore Schultz, Architect, LLC.

863 Santa Fe Drive

Denver, CO 80204

ted@tlsarchitect.com

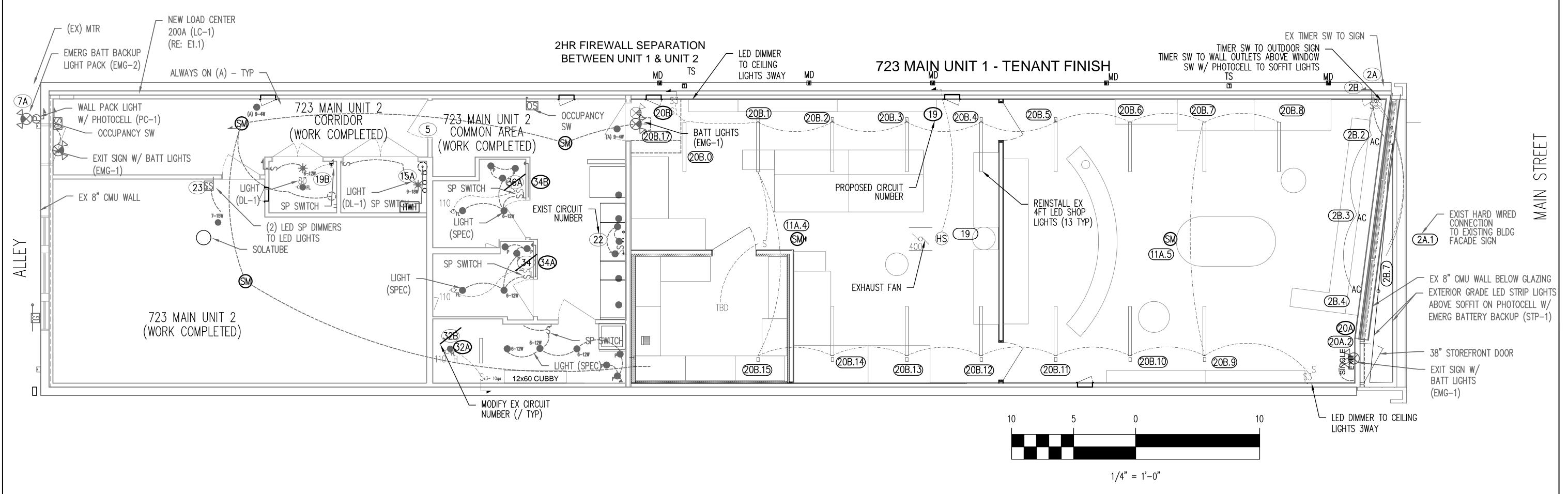
303-875-8719

OJECT No. 723-FLWR
SIGN BY: CWK
ECKED BY: CWK
SUED FOR: DATE:
NCEPT 3.7.2023

ELECTRIC POWER PLAN

SHEET E1.1





723 MAIN STREET
ROYALTY ARRANGEMENTS
(UNIT 1 OCCUPANCY PERMIT)
LONGMONT, CO 80501

PROJECT No. 723—FLWR
DESIGN BY: CWK
CHECKED BY: CWK
ISSUED FOR: DATE:
CONCEPT 3.7.2023

ELECTRIC LIGHTING PLAN

SHEET E1.2



Theodore Schultz, Architect, LLC. 863 Santa Fe Drive Denver, CO 80204 ted@tlsarchitect.com 303-875-8719

723 MAIN STREET
ROYALTY ARRANGEMENTS
(UNIT 1 OCCUPANCY PERMIT)
LONGMONT, CO 80501

PROJECT No. 723—FLWR
DESIGN BY: CWK
CHECKED BY: CWK
ISSUED FOR: DATE:
CONCEPT 3.7.2023

LOW VOLTAGE PLAN

SHEET E2.0

WITH DOUBLE GANG 22 CU-IN MIN JUNCTION BOXES WITH 1-GANG PLATE ADAPTER. NO OPEN BACK LOW

METAL BOXES 22 CU-IN MIN POPULATED WITH LOW VOLTAGE POWER WIRES FOR WIRELESS CAMERAS

6) CEILING SECURITY CONDUIT BOXES SHALL BE 2-GANG

VOLTAGE BOXES

I. BASIC MECHANICAL & PLUMBING REQUIREMENTS

FURNISH ALL LABOR AND MATERIALS AND PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE AND FUNCTIONING MECHANICAL SYSTEMS, AS SPECIFIED AND AS REQUIRED BY CODE.

INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

COORDINATE AND ORDER THE PROGRESS OF MECHANICAL WORK TO CONFORM TO THE OWNER'S SCHEDULE AND THE PROGRESS OF THE WORK OF THE OTHER TRADES.

COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED INSTALLATION. DRAWINGS AND/OR DOCUMENTS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.

APPLY FOR AND PAY FOR ALL PERMITS, FEES, LICENSES AND INSPECTIONS FOR THIS DIVISION OF WORK.

COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AND ORDINANCES COMPLY WITH REQUIREMENTS OF THE UTILITY COMPANIES. IN THE CASE OF DIFFERENCES BETWEEN THESE REQUIREMENTS AND ORDINANCES, THE MOST STRINGENT SHALL GOVERN. CALL FOR INSPECTIONS REQUIRED BY LOCAL BUILDING INSPECTION AUTHORITY.

SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT SHOWING ANY CHANGES REQUIRED IN PIPING, DUCTING, ELECTRICAL WIRING, SPACE ALLOCATION, ETC.

CONTRACTOR SHALL PREPARE 4 COPIES OF SUBMITTALS FOR APPROVAL BY THE DESIGN TEAM OF THE FOLLOWING: ROOF TOP UNITS, EXHAUST FANS, DIFFUSERS AND GRILLES, CONTROLS, PLUMBING PIPING TRAINING CERTIFICATES, PLUMBING PIPING, PLUMBING FIXTURES, WATER HEATERS AND TEST AND BALANCE CERTIFICATIONS.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

MAINTAIN ONE SET OF REDLINED DRAWINGS ON THE JOB SITE INDICATING ALL CHANGES AND DEVIATIONS FROM THE WORK SHOWN ON THE DRAWINGS. IV. PLUMBING

PRIOR TO FINAL ACCEPTANCE, THOROUGHLY CLEAN ALL WORK.

AT COMPLETION OF WORK, DELIVER COMPLETED PROJECT RECORD DOCUMENTS MARKED WITH FIELD CHANGES TO OWNER'S REPRESENTATIVE.

PROVIDE A WRITTEN WARRANTY TO THE OWNER COVERING THE ENTIRE MECHANICAL WORK TO BE FREE FROM DEFECTIVE MATERIALS, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF TWO YEARS AFTER DATE OF ACCEPTANCE.

II. BASIC MATERIALS AND METHODS

THE MECHANICAL DRAWINGS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPING, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT INDICATE EVERY REQUIRED OFFSET, FITTING, ETC.

THE LOCATIONS OF THE ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE THE DRAWINGS (UNLESS NOTED OTHERWISE).

MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.

USE ADJUSTABLE PIPE HANGERS ON SUSPENDED PIPE. PROVIDE HANGERS TO SUPPORT THE SYSTEMS WITHOUT SAGGING. INCLUDE HANGERS AT EACH OFFSET OR CHANGE IN DIRECTION AND AT ENDS OF BRANCHES OVER FIVE FEET IN LENGTH. PROTECT ALL INSULATED PIPE AT POINT OF SUPPORT WITH A 360-DEGREE INSULATION INSERT.

WHERE HORIZONTAL DUCTS AND PIPE PASS THROUGH WALLS AND VERTICAL DUCTS AND PIPES PASS THROUGH FLOORS OR ROOFS, SEAL OFF VOID BETWEEN OPENING AND DUCT OR PIPE. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRE PENETRATION SEALING REQUIREMENTS.

FURNISH AND INSTALL ALL FOUNDATIONS, BASES AND SUPPORTS.

PROVIDE SHUTOFF VALVES AND UNIONS SUITABLY LOCATED TO ISOLATE EACH ITEM OF EQUIPMENT.

TEST PIPING AND DUCTWORK SYSTEMS PRIOR TO CONCEALMENT.

VALVES AND CLEANOUTS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY CODE.

ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE GAS PIPING: WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.

ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.

INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.

ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.

ALL CLEANOUT RISERS SHALL BE 4-INCHES IN DIAMETER FOR 4-INCH PIPES

PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED TO SERVICE, CLOTHES DRYER BOOSTER FANS, SERVICE DAMPERS, VAV BOXES, VALVES AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR

ALL DUCTWORK AND PIPING SHALL CLEAR DOORS AND WINDOWS.

III. INSULATION

FURNISH AND INSTALL INSULATION FOR ALL PIPING AND DUCTWORK SYSTEMS AS FOLLOWS:

DUCTWORK:

DUCTWORK: EXTERIOR DUCT WRAP OR DUCT LINER WITH A MINIMUM R-VALUE OF 5 FOR DUCTWORK IN UNCONDITIONED SPACE AND 8 WHEN LOCATED IN AN ATTIC OR OUTSIDE THE BUILDING.

ALL DOMESTIC HOT / COLD PIPING SHALL INCLUDE A VAPOR BARRIER. PIPING INSULATION AS INDICATED IN FOLLOWING TABLE

MINIMUM THICKNESS FOR PIPE INSULATION IECC 403.2.10 - EXCEPTION 3 (NO INSULATION REQD) "PIPING THAT CONVEYS FLUIDS THAT HAVE A DESIGN OPERATING TEMPERATURE RANGE BETWEEN BETWEEN 60°F - 105°F"

DOMESTIC HOT WATER SYSTEM TYPE 60°F - 105°F	PIPE UP TO 0.5"	0.75" AND GREATER
DOMESTIC HOT WATER	R-3	R-3

ABOVE GRADE PIPE INSULATION: HEAVY-DENSITY, RUBBER INSULATION WITH WHEREVER NECESSARY. SELF-SEALING ADHESIVE. SECURE INSULATION AT BENDS WITH TAPE

DOMESTIC WATER PIPING MATERIALS:

BELOW GRADE: 1" AND SMALLER; TYPE "L" HARD DRAWN COPPER USING SILVER SOLDER (45% SILVER COMPOSITION AND BAG-1 CLASSIFICATION), ASTM B260-62T.

ABOVE GRADE: TYPE "M" HARD DRAWN COPPER, WROUGHT COPPER FITTINGS AND 95-5 (TIN/ANTIMONY),

SANITARY WASTE AND VENT MATERIALS:

COATED SERVICE WEIGHT CAST IRON WITH BELL AND SPIGOT FITTINGS WITH ELASTOMERIC JOINTS OR COATED SERVICE WEIGHT HUBLESS CAST IRON WITH GASKET AND CLAMP FITTINGS. SOLID WALL PVC PIPE MAY BE USED AND SHALL BE OF PVC. SCHEDULE 40 WITH SOCKET FITTINGS THAT MEET ASTM D 2665.

CONDENSATE PIPING MATERIALS: PVC PIPING WITH SOLVENT WELDED

GAS PIPING MATERIALS:

PIPE AND FITTINGS: SCHEDULE 40 BLACK STEEL PIPE AND MALLEABLE IRON FITTINGS OR CORRUGATED STAINLESS STEEL TUBING MANUFACTURED FROM ASTM A240 TYPE 304 STAINLESS STEEL WITH A MINIMUM NOMINAL WALL THICKNESS OF 0.010". ALL MECHANICAL TUBE FITTINGS ARE TO BE MANUFACTURED FROM ASTM B16 TYPE 360 BRASS WHOSE DESIGN INCORPORATES A DOUBLE WALL FLARE FOR GAS-TIGHT SEALING AND MECHANICAL CAPTURE OF THE JACKET FOR ENHANCED TUBING PROTECTION.

THE TUBING, FITTING, AND STRIKE-PROTECTION ARE TO BE INSTALLED PER THE CURRENT VERSION OF THE MANUFACTURER'S DESIGN & INSTALLATION GUIDE AND PER LOCAL CODE. MANUFACTURER DESIGNATED TRAINING SHALL BE OBTAINED BY ALL INSTALLERS PRIOR TO INSTALLATION. THE GAS-PIPING VI. TEMPERATURE CONTROLS SYSTEMS SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS, ANSI LC-1 AND THE MOST CURRENT EDITION OF THE MANUFACTURER'S DESIGN AND INSTALLATION GUIDE.

WATER PIPING:

RUN PIPING AS DIRECT AS POSSIBLE TO REQUIRED CONNECTIONS, AND SLOPE TO DRAIN VALVES AT LOW POINTS FOR COMPLETE DRAINING OF SYSTEM. LOCATE DRAIN VALVES AT ACCESSIBLE POINTS WITHIN THE SYSTEM.

SANITARY WASTE PIPING:

ALL SANITARY WASTE PIPING SHALL BE SLOPED AT A 1/4" PER FOOT MIN.

HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.

SUPPORT ROOF-MOUNTED GAS PIPING A MINIMUM OF 12 INCHES ABOVE ROOF ON METAL STANDS IN PITCH PANS AT 8 FEET ON CENTER.

PLUMBING FIXTURES:

ALL FIXTURES AND TRIM SHALL BE NEW. ALL FIXTURES SHALL BE COMMERCIAL GRADE UNITS AS MANUFACTURED BY AMERICAN STANDARD CRANE, ELJER, KOHLER, MOEN, PRICE FISTER OR JUST AND SUBJECT TO APPROVAL BY PS THE ARCHITECT

V. AIR DISTRIBUTION SYSTEMS

LOW PRESSURE HVAC DUCTWORK: ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED 181A-P FOR PRESSURE-SENSITIVE TAPE, 181A-M FOR MASTIC OR 181A-H FOR HEAT-SENSITIVE TAPE. TAPES AND MASTICS USED TO SEAL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL181B AND SHALL BE MARKED "181B-FX" FOR PRESSURE-SENSITIVE TAPE OR 181B-M FOR MASTIC. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED 181B-C.

DUCT CONSTRUCTION: DUCTWORK SHALL BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS MANUAL. CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT MUST BE SEALED AND MECHANICALLY FASTENED. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE MIXED AIR TEMPERATURE AT THE FURNACE WHEN COOLING IS REQUIRED. SECURELY FASTENED WITH WELDS, GASKETS, MASTICS (ADHESIVES) MASTIC-PLUS-EMBEDDED-FABRIC, OR TAPES. TAPES AND MASTICS MUST BE IF ECONOMIZER COOLING IS NOT AVAILABLE DUE TO OUTSIDE AIR CONDITIONS RATED UL 181A OR UL 181B. EXCEPTION: CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS ON DUCTS OPERATING AT SETPOINT. LESS THAN 2 IN. W.G. (500 PA). THE DUCT SYSTEM MUST PROVIDE A MEANS FOR BALANCING AIR.

ALL ROUND AND FLAT OVAL DUCTS EXPOSED TO VIEW SHALL BE SPIRAL SEAM. CONCEALED ROUND AND FLAT OVAL DUCTS MAY BE FABRICATED WITH AS DETERMINED BY THE IECC COMPLIANT PROGRAMMABLE THERMOSTAT. LOCK TYPE OR WELDED LONGITUDINAL SEAMS.

SUSPEND DUCTS FROM STRUCTURE WITH PROPER HANGERS AT A MAXIMUM OF 8'-0" INTERVALS, AT EACH FLOOR, CHANGE OF DIRECTION AND

MAKE ALL DUCT CONNECTIONS TO MOTOR DRIVEN EQUIPMENT WITH FLEXIBLE

ALL DUCTWORK TO BE OF SHEET METAL CONSTRUCTION PER SMACNA STANDARDS FOR LOW PRESSURE DISTRIBUTION. PROVIDE VOLUME DAMPERS AT EACH ROUND DUCT AND 45 DEGREE DUCT TAKEOFF TO ALLOW COMPLETE BALANCING OF ALL BRANCHES AND DIFFUSERS.

COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH CEILING AND LIGHTING LAYOUT TO AVOID CONFLICTS.

ATTACH FLEXIBLE DUCT INNER LINER TO DUCT CONNECTORS, DIFFUSER NECKS, OR DUCTWORK WITH STAINLESS STEEL WORM DRIVEN CLAMP.

CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS. ETC.. ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.

ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.

LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS. CONTROLS AND VALVING.

SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

CONTRACTOR TO INSTALL TEMPORARY COVERS OVER ALL DUCTWORK OPENINGS DURING CONSTRUCTION TO PREVENT THE ACCUMULATION OF CONSTRUCTION DUST IN AIR DISTRIBUTION SYSTEMS.

ALL CONTROL WORK TO BE PER THE MECHANICAL SEQUENCE OF OPERATION. PROVIDE ALL NECESSARY TRANSFORMERS FOR LOW VOLTAGE CONTROL CIRCUITS. LOW VOLTAGE (24 V) WIRING TO BE BY THIS CONTRACTOR. PROVIDE ALL MOTOR DISCONNECTS AND CONTACTORS.

INSTALL ALL THERMOSTATS AND SWITCHES WHERE SHOWN ON PLANS AT 54 INCHES A.F.F. COORDINATE LOCATIONS WITH THE ELECTRICAL CONTRACTOR.

ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE.

VII. TESTING, ADJUSTING, AND BALANCING

TEST AND BALANCE THE ENVIRONMENTAL SYSTEMS INCLUDING BUT NOT LIMITED TO AIR DISTRIBUTION SYSTEMS, HYDRONIC DISTRIBUTION SYSTEMS, AND THE EQUIPMENT AND APPARATUS CONNECTED THERETO.

THE MECHANICAL CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT TESTING AND BALANCING FIRM SPECIALIZING IN THIS WORK

AIR INLETS AND OUTLETS SHALL BE BALANCED TO WITHIN 10 PERCENT OF THE AIR QUANTITY SPECIFIED ON THE DRAWINGS

AT COMPLETION OF WORK, DELIVER FOUR COPIES OF THE TEST AND BALANCE REPORT TO THE GENERAL CONTRACTOR. REPORT SHALL LIST ALL SUPPLY, RETURN, AND EXHAUST AIR FLOWS, ELECTRICAL DATA, TEMPERATURES, AND PRESSURE DROPS.

VIII. SEQUENCE OF OPERATION

<u>EXHAUST FANS</u>: FAN SHALL BE CONTROLLED BY A WALL MOUNTED TIMER.

OUTSIDE AIR INTAKE DAMPERS: DAMPER SHALL BE CONTROLLED BY A 7 DAY DIGITAL TIMECLOCK LOCATED IN THE JANITORS CLOSET THAT SHALL BE PROGRAMMED TO OPEN THE DAMPER WHEN THE BUILDING IS OCCUPIED.

FURNACES AND SPLIT SYSTEMS: SHALL BE CONTROLLED BY A ZONE CONTROLLER. THE CONTROLLER SHALL BE CAPABLE OF MAINTAINING THE TEMPERATURE SETPOINTS IN TWO ZONES AND SHALL HAVE TWO STAGES OF COOLING CONTROL.

THE FIRST STAGE OF COOLING SHALL ACTIVATE THE AIR SIDE ECONOMIZER SUCH THAT WHEN OUTSIDE AIR CONDITIONS ARE FAVORABLE THE ECONOMIZER SHALL MIX OUTSIDE AIR WITH RETURN AIR TO MAINTAIN A 55F

THE SECOND STAGE COOLING SHALL BECOME ACTIVE TO ACHIEVE THE SPACE

THE ZONE CONTROLLER SHALL CYCLE THE FURNACE HEATING AND COOLING TO MAINTAIN 68F HEATING AND 75F COOLING DURING OCCUPIED HOURS AND 55F HEATING AND 85F COOLING IN THE ZONES DURING UNOCCUPIED HOURS

THE ZONE CONTROLLER SHALL ALSO CHANGE THE POSITIONS OF THE ZONE DAMPERS TO ADJUST THE AIR FLOWS TO THE ZONES ACCORDING TO THE ZONE TEMPERATURE AND HEATING AND COOLING REQUIREMENTS

MECHANICAL LEGEND

SYMBOL

HVAC:

ABBR

DESCRIPTION

DIFFUSER-

DIFFUSER-

DIFFUSER-

RETURN AIR

RETURN OR

EXHAUST DUCT

SUPPLY DUCT

SUPPLY DUCT

RETURN OR

EXHAUST DUCT

ROUND DUCT

ROUND DUCT

VANED ELBOW

MANUAL VOLUME

DAMPER WITH

LOCKING

QUADRAN

DOWN

DOWN

DOWN

GRILLE

14-WAY THROW

3-WAY THROW

2-WAY THROW

(NOT ALL SYMBOLS LISTED ARE BEING USED IN THIS SET OF MECHANICAL DRAWINGS)

SYMBOL

SYMBOLS:

CFM TYP(X)

⊢----

DESCRIPTION

SHEET KEY NOTES

NEW TO EXISTING)

AIR DEVICE CALL OUT

TYP. OF (X) DEVICES.

EXISTING (PAREN-THESIS

AROUND ITEM INDICATES

IT IS EXISTING)

NEW THERMOSTAT

EXIST. THERMOSTAT

UNDERCUT

LOW PRESSURE

FLEXIBLE DUCT

CONICAL TAP

CONICAL SPIN-IN

FITTING W/ MANUAL

VOLUME DAMPER

MOTORIZED

DAMPER

EXISTING

CHANGE

DUCTWORK NO

POINT OF CONN. (CONN.

Theodore Schultz, Architect, LLC 863 Santa Fe Drive Denver, CO 80204 ted@tlsarchitect.com 303-875-8719

ENTS ERMIT 501 M M TR ≥ > Ŭ ≥ ZZ-Z 2 ROY, UNIT

0

MECHANICAL COVER SHEET & SCHEDULES

SHEET

HVAC KEYNOTES: 1G) NEW 14WC GAS METER / REGULATOR 2G) PROVIDE GAS SVC PIPING BLACK IRON (1.5") 3G) PROVIDE GAS SHUT OFF VALVE (3/4") 4G) PROVIDE GAS FLEX HOSE TO EQUIP (3/4" 12" MAX) 5G) PROVIDE GAS SVC PIPING BLACK IRON (1.25") 5H) PROVIDE SPIRAL DUCT 6H) PROVIDE 22"x11.5" DUCT BETWEEN JOISTS (OR AS NOTED) 7H) PROVIDE 22"x22" DROP BOX 8H) PROVIDE MECHANICAL DAMPER CONTROL 9H) PROVIDE DUAL DEFLECTION DIFFUSER W/ OPPOSED BLADE FACE DAMPER @ 30° DOWNWARD ANGLE & FANTECH IR-"X" 6IN, 8IN, 10IN BALANCING VALVES 10H) NEW IECC COMPLIANT PROGRAMMABLE THERMOSTAT (TH-1). (HONEYWELL VISION PRO 8000 OR EQ)

11H) HVAC REDUCER 12H) COLD AIR RETURN 13H) 12" VERT FRESH AIR STACK THRU ROOF 14H) BATHROOM EXHAUST FAN 15H) EXISTING FURNACE TO REMAIN, PLACE IN NEW LOCATION PER PLANS. 16H) CONNECT OUTSIDE AIR INTAKE DUCTS TO EXISTING FURNACE RETURN DUCT. PROVIDE A OUTSIDE DAMPER IN DUCT AND ROUTE UP THRU ROOF INTO A LOCATION THAT IS 10' AWAY FROM FURNACE FLUES AND 3' AWAY FROM ANY EXHAUST OUTLETS. TERMINATE

WITH INTAKE HOOD PER LOCAL CODE REQUIREMENTS.

17H) BALANCE AIR DEVICES TO QUANTITY INDICATED. 18H) PATCH ROOF TO A WEATHER TIGHT CONDITION AND INSULATE TO MATCH EXISTING.

19H) PROVIDE FIRE DAMPER PER LOCAL CODE REQUIREMENTS 20H) PROVIDE NEW EXHAUST FAN INSTALLED IN CEILING JOIST SPACE AND ROUTE 4"/6" EXHAUST DUCT UP THROUGH ROOF AND TERMINATE WI/ROOF CAP WITH INTEGRAL BACKDRAFT DAMPER. INSULATE ALL DUCTWORK WITH 1-1/2" FIBERGLASS DUCT BLANKET WITH INTEGRAL AND CONTINUOUS VAPOR BARRIER. TERMINATE PER LOCAL CODE REQUIREMENTS. 21H) CONNECT 12"x12" DUCT TO FURNACE BOTTOM INTAKE W/ DAMPER AND AND ROUTE TO FURNACE RETURN PLENUM. BALANCE AIR

QUANTITY TO 1500 CFM. 22H) ROUTE 4" EXHAUST FAN TO HVAC ROOM FOR RECIRCULATION 23H) ROUTE FURN-1 /HWH EXHAUST VERT THRU ROOF PER MANUFACTURER CLEARANCES. SEAL ROOF PENETRATION 24H) ROUTE FURN-1 / HWH INTAKE VERT THRU ROOF PER

MANUFACTURER CLEARANCES. SEAL ROOF PENETRATION. 25H) ADD LOUVER W/ DAMPER AND ECONOMIZER CONTROL TO DUAL ZONE CONTROLLER 26H) ROUTE RETURN AIR VENT VERT THRU ROOF PER MANUFACTURER CLEARANCES. SEAL ROOF PENETRATION.

27H) ADD LOUVER / DAMPER TO ECONOMIZER CONTROL W/ LOW LEAKAGE GRAVITY DAMPER FOR ECONOMIZER EXHAUST.

EQUIPMENT SCHEDULE 1M) LENNOX G61MP-60D-135 -NATURAL GAS

-95% EFFICIENT -132,000 BTUH 2M) LENNOX XC14-048 4 TON AIR CONDITIONER - HFC-410A REFRIGERANT

- UP TO 15.50 SEER (PER MFR) 3M) RINNAI RUC98i - 9.5GPM -199,000 BTUH -95% EFFICIENT -65° RISE @ 5.4GPM (MIN) 4M) BELIMO ECONOMIZER

- BELIMO "ECON-ZIP-BASE" 5M) HONEYWELL 3 ZONE CONTROLLER HONEYWELL HZ311

GAS LOADS TO MECH ROOM 132,000 BTHU 1) FURNAGE 2) HWH 199,000 BTUH TOTAL LOAD TO MECH RM 331,000 BTUH

DEVELOPED LENTH OF PIPING <60 FT 1.5" PIPING REQURIED

G61MP-60D-135 PERFORMANCE (Less Filter)

NOTES - All air data is measured external to unit without filter (not furnished - field provided).

Air Volume / Watts at Different Blower Speeds

External Static	Bottom Return Air, Side Return Air with Optional RAB Return Air Base, Return Air from Both Sides or Return Air from Bottom and One Side.								Single Side Return Air - Air volumes in bold require field fabricated transition to accommodate 20 x 25 x 1 in. air filter in order to maintain proper air velocity.							
Pressure in. w.g.	High		Medium- High		Medium- Low		Low		High		Medium- High		Medium- Low		Low	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.00	2730	1465	2425	1125	2055	915	1560	680	2665	1440	2325	1100	1865	890	1410	690
0.10	2670	1440	2400	1100	2065	890	1590	675	2615	1405	2310	1065	1915	865	1465	685
0.20	2600	1400	2365	1070	2045	865	1620	665	2530	1370	2280	1055	1925	850	1570	675
0.30	2525	1360	2315	1045	2035	845	1615	655	2470	1330	2235	1015	1920	825	1590	670
0.40	2445	1325	2260	1015	2020	820	1615	645	2380	1290	2175	985	1910	805	1590	655
0.50	2360	1280	2195	985	1960	790	1610	635	2310	1265	2120	965	1890	790	1595	645
0.60	2290	1255	2130	965	1900	755	1600	615	2200	1230	2055	935	1835	765	1580	630
0.70	2205	1220	2035	910	1825	730	1570	600	2120	1190	1970	900	1790	740	1545	605
0.80	2110	1195	1945	880	1765	710	1540	580	2025	1160	1890	875	1720	710	1515	590
0.90	1970	1120	1835	830	1680	690	1540	545	1930	1110	1800	835	1655	685	1440	570

Air Volume / Watts at Different Blower Speeds

UNIT 1 SUPPLIES OPPOSED 16x14 EL + BLADE DIFFUSERS (SUPPLY 14" EL TRANS TO 2HR FIREWALL SEPARATION DUCT) AND ELECTRIC ZONE DAMPERS TO EA ROOM (6H) (INSULATE) — ABOVE CEILING BETWEEN UNIT 1 & UNIT 2 3" FUR-1, EC-1, ZC-1, COIL-1 19H LANDLORD INSTALLED 20" DUCT FIRE DAMPER P.O.C, - ZONE 2 THERMOSTAT (10H) 723 MAIN UNIT 1 - TENANT FINISH EX 12" CMU WALL (4M, 5M) (24H, 25H, 26H) 723 MAIN UNIT 2 8" (9H) 150CFM ─ 20" (5H) 14" (5H) 16" (5H) CORRIDOR (22H) MD2 - R-10 FURNACE (WORK COMPLETED) **TANKLESS** ROUTE IN 723 MAIN UNIT 2 8" (9H) CFM (DOWN) HOT WATER CEILING (2G) 4" (9H) COMMON AREA 8" (9H) CFM EX 8" CMU (WORK COMPLETED) (DOWN) WALL HVAC ZONE 2 ← GAS STUB (10H) OUT IN 2 @ 8" (9H) @ 98" OC CEILING (5G) 141CFM GRILLS (TYP) TREE) 8"x12 (9H) (H) 400 141CFM (TYP) HVAC ZONE 1 FURN (4G) 132k BTUH — 8"(8H, 12H) 150CFM MAIN (8H, 13H, 16H, 17H, 18H) — HVAC ZONE 3 (20H) ROOF MOUNTED VENT W/
VARIABLE SPEED CONTROLS
ON HUMIDITY SENSOR LOCATED
REMOTE FROM THIS LOCATION EX GAS SVC 12"x12" (8H, 12H) — (5G) W/ SED TRAP ___/MD1/2/3 ___ MOVE REGULATOR TO COOLER ZONE 3" FURN, HWH (23H) EDGE OF BLDG 8" (9H) CFM (DOWN) 723 MAIN UNIT 2 DUCT DAMPER (8H) (WORK COMPLETED) 22Wx11.5H (6H) (INSULATE) ENTRY 5 ROOF (2G) RA 20" (12H) RA ∕□ RA ← ___20" (12H) 14" (5H, 12H) 12x60 CUBBY - UNIT 1 SUPPLIES OPPOSED BLADE DIFFUSERS (RETURN DUCT) AND ELECTRIC ZONE DAMPERS 14"(8H) -(1G) GAS REG ROUTE VERT INTO CEILING ZONE 3 THERMOSTAT (10H) & MTR (3) 12X8" (8H, 12H) 212CFM EA EX 12" CMU ACROSS SHOWER ROOM WALL PROVIDE CEILING VENT IN HALL (26H, 27H) HVAC SHALL BE 3 SEPARATE ZONES.
ROOM 1 SHALL BE CONTROLLED BY ZONE 2
REMAINING SPACES SHALL BE CONSTROLLED BY
ZONE 3. UNIT 1 SHALL BE RESPONSIBLE FOR
INSTALLATION OF ALL BRANCHES OFF THE SUPPLY
/ RETURN MAIN AND CONNECTION OF THE ZONES
AND HVAC BALANCING AFTER COMPLETION. (INUSLATE) 1.25" GAS VALVE ENCLOSE RETURN AIR STUB-OUT ABOVE ROOF LANDLORD INSTALLED 20" DUCT FIRE DAMPER P.O.C, HORIZONTAL SCALE

> THE HVAC CFM FLOW RATES & LATERALS AS SHOWN IN THIS PERMIT SUPERCEED THE LANDLORD CORE & SHELL PERMIT SIZING. DUCTS / LATERALS HAVE BEEN RE-SIZED TO ACCOMADATE TENANT DESIGN & LAYOUT. COORDINATE SIZING REVISIONS & BALANCING WITH THE LANDLORD CORE & SHELL PERMIT.

1/4" = 1'-0"

Theodore Schultz, Architect, LLC.

863 Santa Fe Drive

Denver, CO 80204

ted@tlsarchitect.com

723 M ROYALTY / (UNIT 1 OCC

 ∞

303-875-8719

MECH & HVAC PLAN

		PL	UMBI	NG L	EGEND				
		(NOT ALL SYMBOLS LIST	ED BELOW ARI	E BEING U	SED IN THIS SET OF PLUMBING	G DRAWINGS)			
SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION	
	CW	DOMESTIC COLD WATER			ARROW INDICATES DIRECTION OF FLOW	Xs	SV	SOLENOID VALVE	
	HW	DOMESTIC	Щ		THERMOMETER	፟፟ቖ፞፞፟፟፟		TEMPERATURE AND PRESSURE RELIEF VALVE	
	HWC	HOT WATER DOMESTIC HOT	—— — —	U	UNION			BALANCING VALVE	
—ss—	SS	WATER CIRCULATING SANITARY SEWER (BLACK WATER)	\bowtie	GV	GATE VALVE	<u> </u>	STR	STRAINER W/ BLOW-OFF VALVE &	
w	W	SANITARY WASTE (GREY WATER)	\sum	CV	CHECK VALVE			CAPPED HOSE- END CONNECTION	
	V	SANITARY VENT		TMV	THERMOSTATIC MIXING VALVE	#		SHEET KEY NOTES	
——G——	G	NATURAL GAS	- Ö-	BV	BALL VALVE		POC	POINT OF CONN. (CONN. NEW TO EXISTING)	
		UNDERGROUND PIPING	-	GC	GAS COCK		DN	DOWN	
××××××		EXISTING PIPING TO BE REMOVED	- - -	DV	HOSE END		FF	FINISHED FLOOR	
$\overline{\ }$		TEE DOWN			DRAIN VALVE		I.E.	INVERT ELEVATION	
0-		ELBOW UP	 + -	HB WH	HOSE BIBB, WALL HYDRANT		NTS	NOT TO SCALE	
C		ELBOW DOWN		FD	FLOOR DRAIN		VTR	VENT THRU ROOF	
─		TEE UP		FCO	FLOOR CLEANOUT	(E)	(E)	EXISTING	
,		PIPE CAP OR	$igcup_{}$	GCO	GRADE CLEANOUT	(N)	(N)	NEW	
		PLUG	\dashv	WCO	WALL CLEANOUT	(R)	(R)	RELOCATED	

	MAXIMUM FLOW RATES PER 2015 IPC								
	& SENATE BILL 14-103								
	PLUMBING FIXTURE	MAXIMUM FLOW RATE							
/E	LAVATORY, PUBLIC (NON-METERING)	0.5 GPM							
	LAVATORY, PRIVATE	1.5 GPM							
	SHOWER HEAD	2.0 GPM							
	SINK FAUCET	2.2 GPM							
	WATER CLOSET	1.28 GPF							

DEMOLISH (REMOVE)

I. TRANSITION GAS SIZE TO INLET SIZE OF EQUIPMENT AS REQUIRED.

- 2. SIZES BASED ON 14 IN. W.C., 0.60 SPECIFIC GRAVITY AND 1000 BTUH/CFH FOR SCHEDULE 40 METALLIC PIPE. SIZES SHOULD BE RECALCULATED FOR OTHER PIPE MATERIAL. DO NOT DOWNSIZE ANY PIPE SIZES WITHOUT PRIOR APPROVAL FROM
- COORDINATE EXACT BTUH AND PRESSURE REQUIRED TO EACH PIECE OF EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND PROVIDE REGULATORS
- 4. FIELD VERIFY EXACT DISTANCE TO FURTHEST PIECE OF EQUIPMENT. DISTANCE SHOWN IS APPROXIMATE ONLY AND HAS 50% ADDED FOR EQUIVALENT LENGTH OF FITTINGS AND VALVES.
- 5. COORDINATE NEW GAS LOADS WITH XCEL ENERGY

AS REQUIRED FOR PROPER OPERATION.

GAS CONNE	CTION	1 SCHE	DULE	
EQUIPMENT	BTUH	CFH	DISTANCE TO EQUIPMENT	GAS SIZE TO EQUIP
(EX) FUR-1	132,000	132	90'	3/4"
(EX) WHG-1	199,000	199	90'	3/4"
FUTURE STUB OUT	269,000	269	100'	1-1/4"
TOTAL NEW LOAD	600,000	600		
DISTANCE TO FURTHEST FIXTURE	100'			
NEW GAS MAIN SIZE	1-1/2"			

I) MAINTAIN REQUIRED

CLEARANCES AND ABIDE

BY THE REQUIREMENTS

- FRONT OF BUILDING

FINISHED FLOOR ELEV

√(E) 3/4" INCOMING

DOMESTIC WATER LINE

OF THE LOCAL

JURISDICTION.

INSTALL NEW WALL

- (N) 3/4" RPZ BFP

(N) 3/4"

 ackslash NEW WASTE FUNNEL

─ (N) 1-1/2" WASTE

(N) 3/4" TO FRONT WALL HOSE BIB

CONN UP THRU

1-1/2" AAV-1

- 3/4" DOMESTIC

UTILITY ROOM

BRAIZED BELOW

GROUND CONN

WATER LINE TO

COVER PANEL FOR THE

WATER SERVICE WITH

SO IT IS NOT EXPOSED.

(N) SHUT OFF VALVE

→ SEE P1.1 FOR CONTINUATION

PLUMBING FIXTURE CONNECTION SCHEDULE

Code	Mfr (Or EQ)	Model Name	Model #	GPM / HP	Color Code	Notes	Footnotes
FD-1	TBD	Ownner Spec				Floor Drain	1,3
FD-2	TBD	Owner Spec				36" Long Strip Drain	2,3,12
L-1	TBD	Owner Spec			Solid Copper	ADA Bathroom Lavatory	6,7,8
LF-1	Delta	Leland	2578LFRB-278RB	1.2		ADA Lavatory Faucet	5,9
S-1	Sinkology	Escher	P1U-0904HA		Solid Copper	Kitchenette Sink	10
SF-1	TBD	Owner Spec				Kitchenette Faucet	5
MS-1	TBD	Owner Spec				Mop Sink Base	11
MSF-1	TBD	Owner Spec				Mop Sink Faucet	
GD-1	Waste King	Legend Series	EVISE &		ATF	Garbage Disposal	15
DW-1	TBD	Owner Spec			/ \	Dishwasher	14
SH-1	Moen	Caldwell	82495EPBRB	2.0		Shower Valves / Head	8,13
WC-1	American Std Champion Pro	Owner Spec		1.28 GPF		Toilet, w/ ADA flush handles	4,5
DF-1	Elkay	Swirlflo		0.13 ea		Drinking Fountain	8,16
FIL-1	American Plumber		W38-PRA			3/8" Water Filters	8
HB-1	TBD	Owner Spec				Hose Bib	8
TMV-1	Watts	LFMMV				Thermostatic Mixing Valve	8, 9
ET-1	Amtrol	Therm-X-Trol	ST-5		2 Gallon	Thermal Expansion Tank	8
AAV-1	Studor	Mini-vent				1-1/2" or 2"	8
RPZ-1	TBD	Watts	LF009M3QT-S			3/4" RPZ Backflow Preventer	8

RPBFP BACKFLOW PREVENTOR

- PROVIDE AND INSTALL P-TRAP AND TRAP GUARD. COORDINATE MODEL NUMBER REQUIRED FOR INSTALLATION IN APPROPRIATE FLOOR TYPE. SEE DETAIL ON THIS SHEET.
- PROVIDE AND INSTALL P-TRAP. COORDINATE MODEL NUMBER REQUIRED FOR INSTALLATION IN APPROPRIATE FLOOR TYPE. CAREFULLY COORDINATE ALL FLOOR DRAINS WITH FLOOR SLOPES REQUIRED. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS

FLOW RATES OF FIXTURES MUST NOT EXCEED MAXIMUM FIXTURE FLOW RATES PER CODE AS SCHEDULED ON THIS SHEET

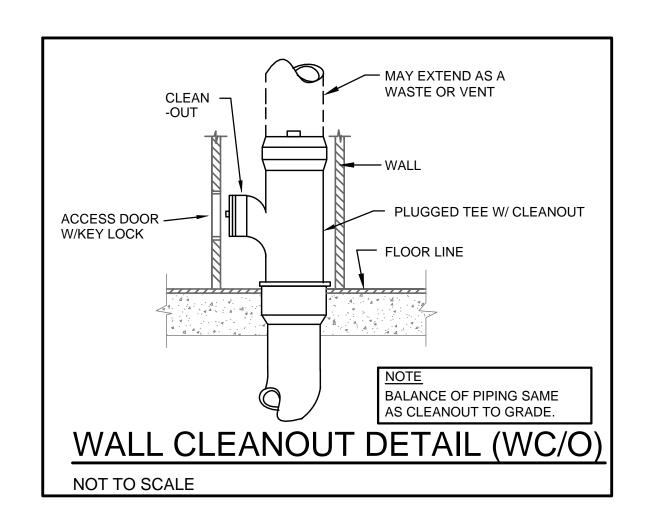
- PROVIDE WITH A HEAVY DUTY ELONGATED OPEN FRONT SEAT LESS COVER (DIMENSIONS MUST FIT BOWL SPECIFIED). HEAVY DUTY WAX BOWL RING WITH HORN AND BOLT KIT
- PROVIDE AND INSTALL WITH LF-1 OWNER SPECIFIED ADA FAUCET, PROVIDE OPEN GRID STRAINER (NO POP UP), OFFSET DRAIN, P-TRAP, ANGLE STOPS, FLEXIBLE RISERS AND CAST BRASS ESCUTCHEONS WITH SET SCREWS.
- PROVIDE AND INSTALL WITH SAFETY COVERS OVER DRAIN, TRAP, WALL BEND AND HOT AND COLD ANGLE STOP AND SUPPLIES. SAFETY COVERS SHALL CONFORM TO ALL FEDERAL AND STATE ACCESSIBILITY STANDARDS AND HAVE A PLEASING APPEARANCE.
- PROVIDE TMV-1 ON ALL L-1F LAVATORY FAUCETS. SEE P1.3 FOR LOCATIONS. SET TO 105 DEGREES.
- PROVIDE AND INSTALL WITH SF-1 OWNER SPECIFIED FAUCET (MAX. 2.2 GPM), P-TRAP, ANGLE STOPS, FLEXIBLE RISERS AND CAST BRASS ESCUTCHEONS WITH SET SCREWS.
- PROVIDE AND INSTALL WITH MSF-1 OWNER SPECIFIED MOP SINK FAUCET WITH INTEGRAL STOPS AND VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE. PROVIDE WITH 2" DRAIN, STRAINER, P-TRAP AND SUPPLIES. VERIFY IF OWNER REQUIRES MOP BRACKET, HOSE AND HOSE BRACKET. OWNER SPECIFIED WIDTH TO ACCENT FLOOR TILE SIZE (MIN 24" LENGTH)
- PROVIDE AND INSTALL WITH OWNER PROVIDED SHOWER TRIM (PRESSURE BALANCED MIXING VALVE, HANDLE, SHOWERHEAD, ARM, FLANGE AND REQUIRED ROUGH IN.
- VERIFY CONNECTION SIZES TO DISHWASHER. CONNECT DISHWASHER DRAIN HOSE TO GD-1 THROUGH A HIGH LOOP DRAIN ATTACHED TO THE BOTTOM OF THE COUNTERTOP. PROVIDE AIR GAP IF REQUIRED BY LOCAL AUTHORITY.
- COORDINATE WALL SWITCH CONTROLLED RECEPTACLE WITH ELECTRICAL

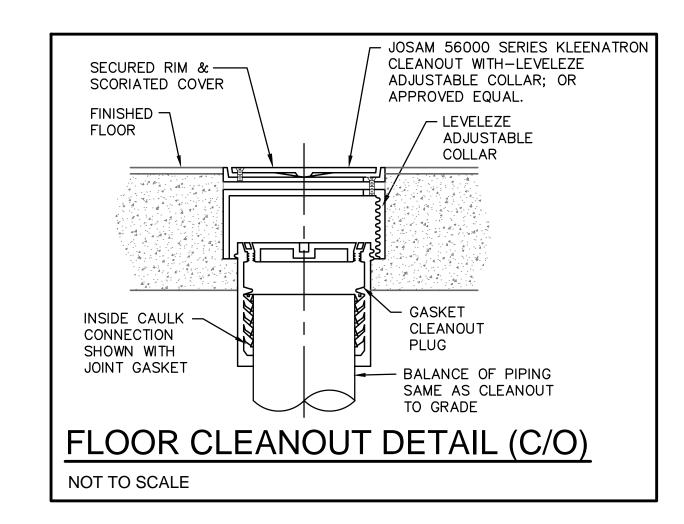
VALVE IN RISER

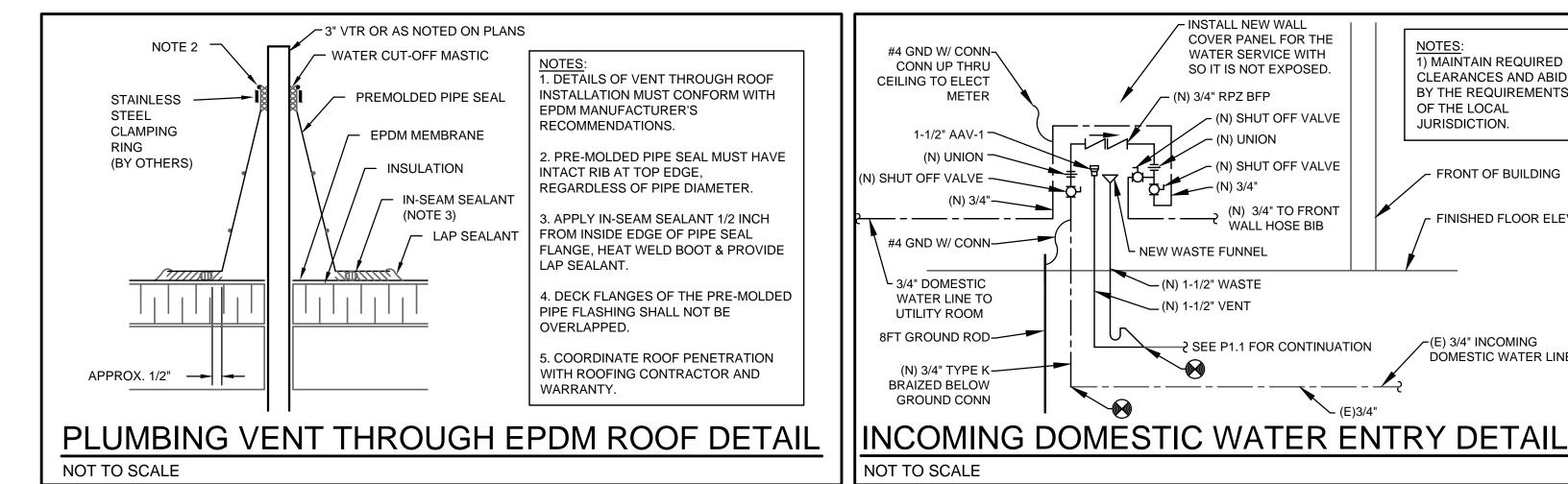
PROVIDE AND INSTALL P-TRAP, ANGLE STOP, WALL CARRIER AND TRANSITION TO 3/8" CW INLET AS REQUIRED.

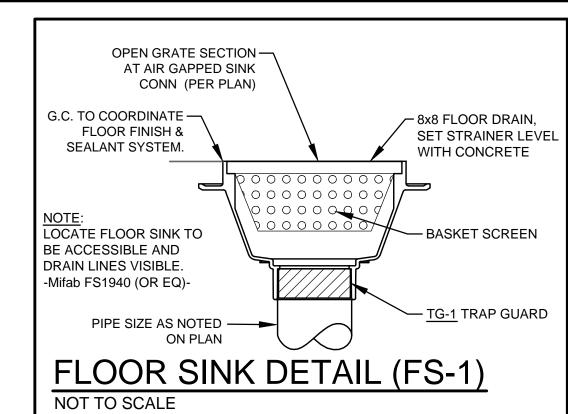
10. FROVID	2. PROVIDE AND INSTALL F-TRAF, ANGLE STOP, WALL CARRIER AND TRANSPHON TO 3/6 CW INCL. AS REQUIRED.											
GAS	GAS FIRED TANKLESS WATER HEATER SCHEDULE											
PLAN CODE	MFR.	MODEL	INPUT AT SL (BTUH)	EWT	LWT	GPH DELIVERY @	EFFICIENCY FACTOR	WIDTH	HT	LBS	ELECTRICAL	NOTES
						65 DEG RISE					VOLTAGE	
WHG-1	RINNAI	RUC98i - 9.5 GPM (75 WATTS)	199,000	-	-	5.4 GPM	95%	18.3"	28.5"	67.1	120/1 PH	1-5
	·		·				·				-	

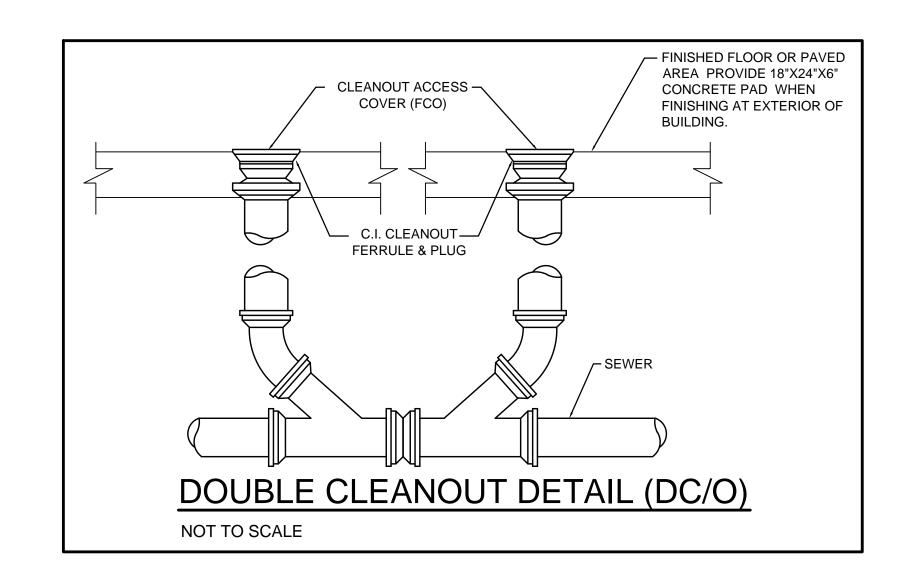
- 1. PROVIDE VENT AND INTAKE TERMINATIONS PER MANUFACTURER RECOMMENDATIONS, FIELD CONDITIONS & DRAWINGS.
- 2. INSTALL PER ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS. 3. MAINTAIN MANUFACTURER RECOMMENDED INSTALLATION CLEARANCES.
- 4. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR
- 5. PROVIDE WITH CONDENSATE NEUTRALIZING KIT AND ROUTE CONDENSATE FROM (E)FUR-1 FURNACE THROUGH CONDENSATE NEUTRALIZING KIT ALSO.

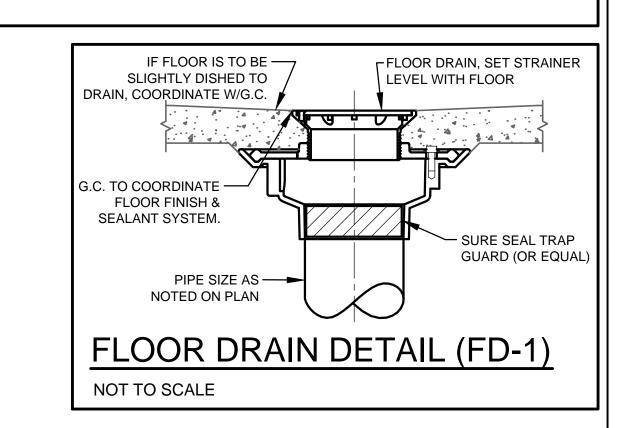


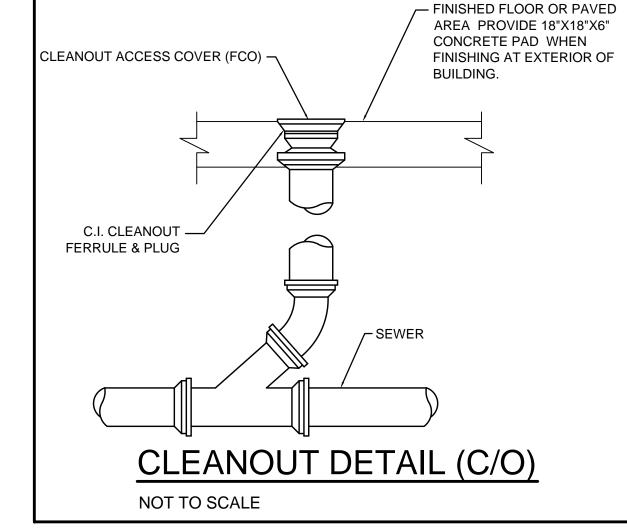


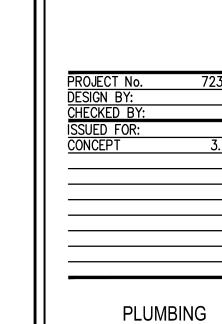












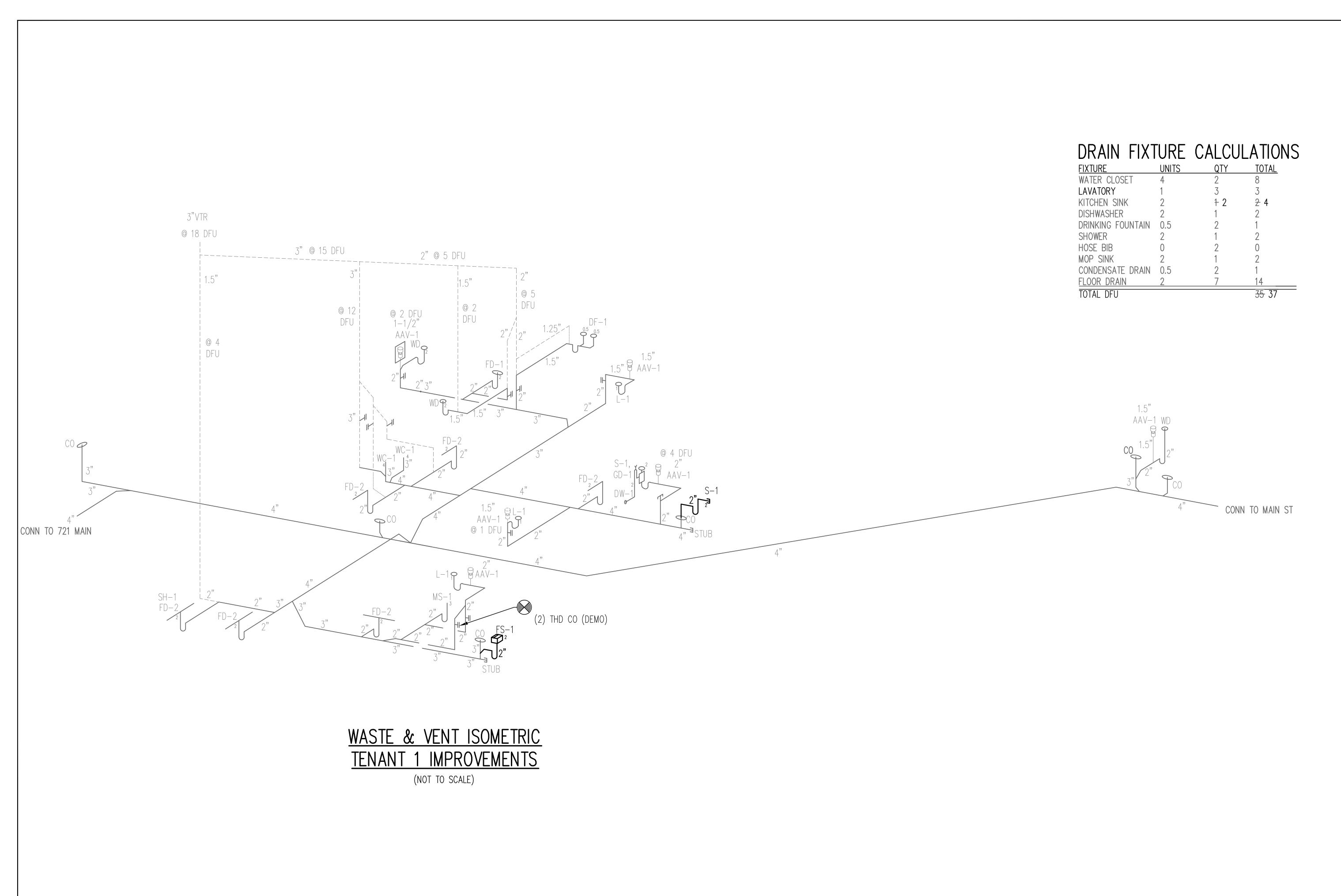
Theodore Schultz, Architect, LLC.

863 Santa Fe Drive

Denver, CO 80204

303-875-8719

COVER SHEET



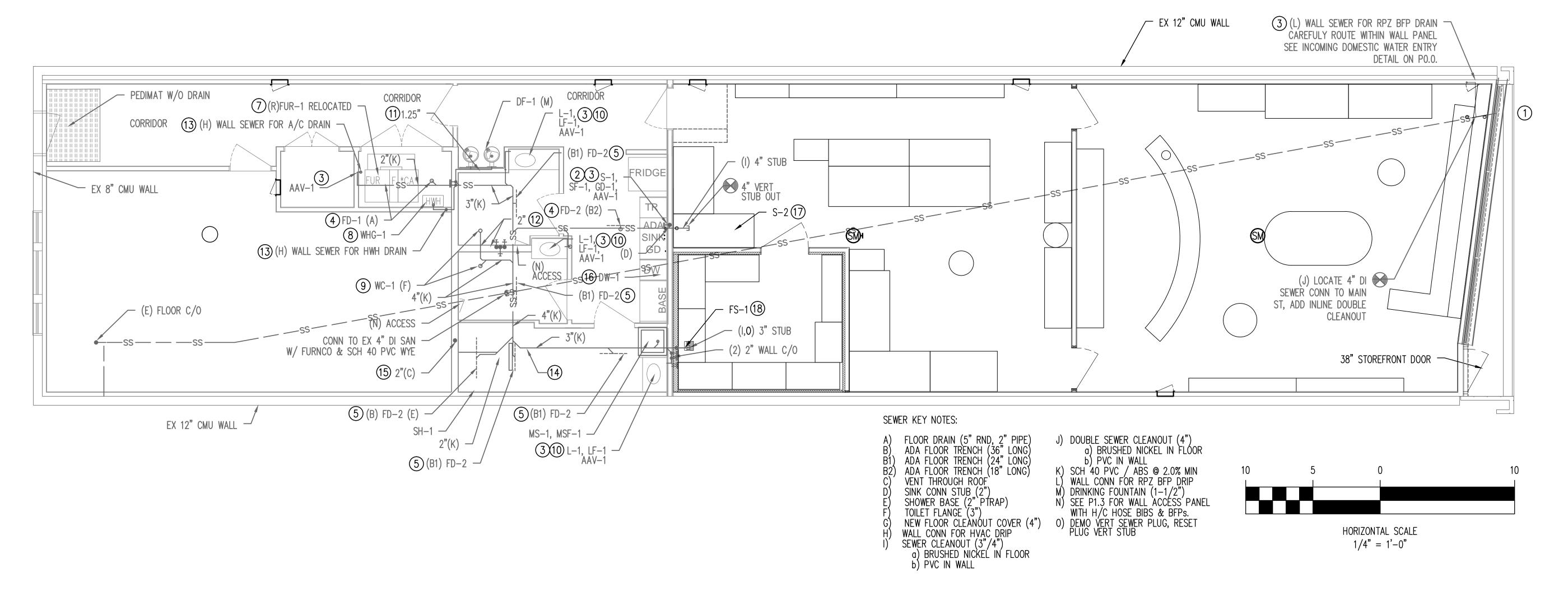


PROJECT No. 723-FLWR
DESIGN BY: CWK
CHECKED BY: CWK
ISSUED FOR: DATE:
CONCEPT 3.7.2023

SEWER ISOMETRIC PLAN

SHEET **D1 1**





NEW SEWER PLAN

SCALE: 3/16"=1'-0"

- (1) EXISTING 4" UNDERGROUND SANITARY SEWER ROUTED FROM BUILDING TO STREET MAIN TO REMAIN UNCHANGED. LOCATION SHOWN IS AN ASSUMPTION PER FIELD OBSERVATION AND LOCATIONS OF EXISTING CLEANOUTS. SEWER WAS VIDEO SCOPED FROM BUIDING TO STREET POINT OF CONNECTION WITH NO COMPROMISES IN PIPE INTEGRITY. FIELD VERIFY EXACT LOCATION, SIZE, AND INVERT ELEVATION FOR NEW CONNECTIONS SHOWN. (TYPICAL)
- (2) ROUTE NEW 2" WASTE FROM <u>S-1</u> SINK DOWN IN WALL TO CONNECT TO UNDERSLAB WASTE.

KEYNOTES

- 3 PROVIDE AN AAV-1 AIR ADMITTANCE VALVE A MINIMUM OF 4" ABOVE THE HORIZONTAL BRANCH DRAIN OR FIXTURE DRAIN. PROVIDE A WALL BOX IF LOCATED IN A WALL. SEE WASTE AND VENT ISOMETRIC ON P1.1
- (4) NEW <u>FD-1</u> FLOOR DRAIN WITH TRAP GUARD. CONNECT NEW 2" WASTE UNDERSLAB TO NEW SANITARY SEWER AS INDICATED.
- (5) NEW $\underline{FD-2}$ (36"/24"/18") STRIP FLOOR DRAIN. CONNECT NEW 2" WASTE UNDERSLAB TO NEW SANITARY SEWER AS INDICATED.
- 6 REMOVE EXISTING WASTE & VENT STACK FROM BATHROOMS NOTED TO BE DEMO'D ON ARCHITECTUAL PLANS. INSERT 4" SCH 40 PVC SPLICE W/ FERNCO'S. INSTALL FLOOR CLEANOUT TO 721 MAIN (SEE WASTE & VENT ISOMETRIC ON P1.1)
- 7) RELOCATED EX FURNACE PER M1.1. ROUTE NEW GAS PIPING TO FURNACE PER M1.1.
- 8 ROUTE 3" EXHAUST & INTAKE AIR FROM WHG-1 GAS FIRED TANKLESS WATER HEATER TO TERMINATE THROUGH THE ROOF. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT ROOF TERMINATION LOCATION AND HEIGHT WITH FIELD CONDITIONS AND LOCAL BUILDING DEPARTMENT REQUIREMENTS. VERIFY THAT TOTAL ACTUAL ROUTING WILL NOT EXCEED MANUFACTURER'S MAXIMUM NUMBER OF 90 DEGREE ELBOWS & LENGTHS. MAINTAIN 3'-0" CLEAR FROM ROOF EDGE AND 10'-0" FROM ANY MECHANICAL INTAKES. SEE GAS FIRED TANKLESS WATER HEATER CONNECTION DETAIL AND SCHEDULE ON PO.O.
- 9 NEW WC-1 ADA WATER CLOSET. SEE PLUMBING FIXTURE CONNECTION SCHEDULE ON PO.O. ROUTE NEW 3" SANITARY SEWER FROM FIXTURE TO CONNECT TO 4" UNDERSLAB SANITARY SEWER AS INDICATED.
- ROUTE NEW 1.5" WASTE FROM L-1 LAVATORY AND ROUTE 2" WASTE DOWN IN WALL TO CONNECT TO UNDERSLAB WASTE AS
- (11) ROUTE NEW 1.25" VENT UP IN WALL FROM FIXTURE DRAIN. ROUTE VENT OVER IN CEILING SPACE TO CONNECT TO NEW 3" VENT THROUGH ROOF. SEE WASTE & VENT ISOMETRIC ON P1.1.

- (12) ROUTE NEW 2" VENT UP IN WALL AS INDICATED FROM UNDERSLAB SANITARY SEWER. VENT OVER IN CEILING SPACE TO CONNECT TO NEW 3" VENT THROUGH ROOF. SEE WASTE & VENT ISOMETRIC ON P1.1.
- (13) CONDENSATE FROM RELOCATED (R) FUR-1 ROUTED TO 2" WASTE STANDPIPE.
- (14) SEE DEMO PLAN ON P1.0 FOR REQUIRED SAWCUTS. (TYPICAL)
- (15) ROUTE NEW 2" VENT UP IN WALL AS INDICATED FROM UNDERSLAB SANITARY SEWER. TRANSITION TO 3" A MINIMUM OF 18" BELOW ROOF. TERMINATE A MINIMUM OF 12" ABOVE THE ROOF AND SEAL ROOF PENETRATION WATER TIGHT. MAINTAIN 3'-0" CLEAR FROM ROOF EDGE AND 3'-0" ABOVE OR 10'-0" FROM ANY MECHANICAL INTAKES.
- (16) CONNECT $\underline{DW-1}$ DISHWASHER DRAIN HOSE WITH HIGH LOOP TO UNDERSIDE OF CABINET AND INTO $\underline{GD-1}$ GARBAGE DISPOSER.
- CONNECT SINK S-2 WITH 1.5" P TRAP TO VERT 2" SEWER STUB-OUT THROUGH FIREWALL, (EX) 2" AAV INSTALLED UNDER KITCHEN SINK.
- (18) FULL DEPTH SAWCUT EXIST CONCRETE FLOOR, ADD 8x8 FLOOR SINK AS SHOWN. CONN TO EXIST SEWER WITH 2" PVC PIPE @ 3.0% SLOPE. PATCH CONCRETE FLOOR, MATCH EXIST FINISH. (EX) 2" AAV INSTALLED UNDER SHOWER ROOM SINK.

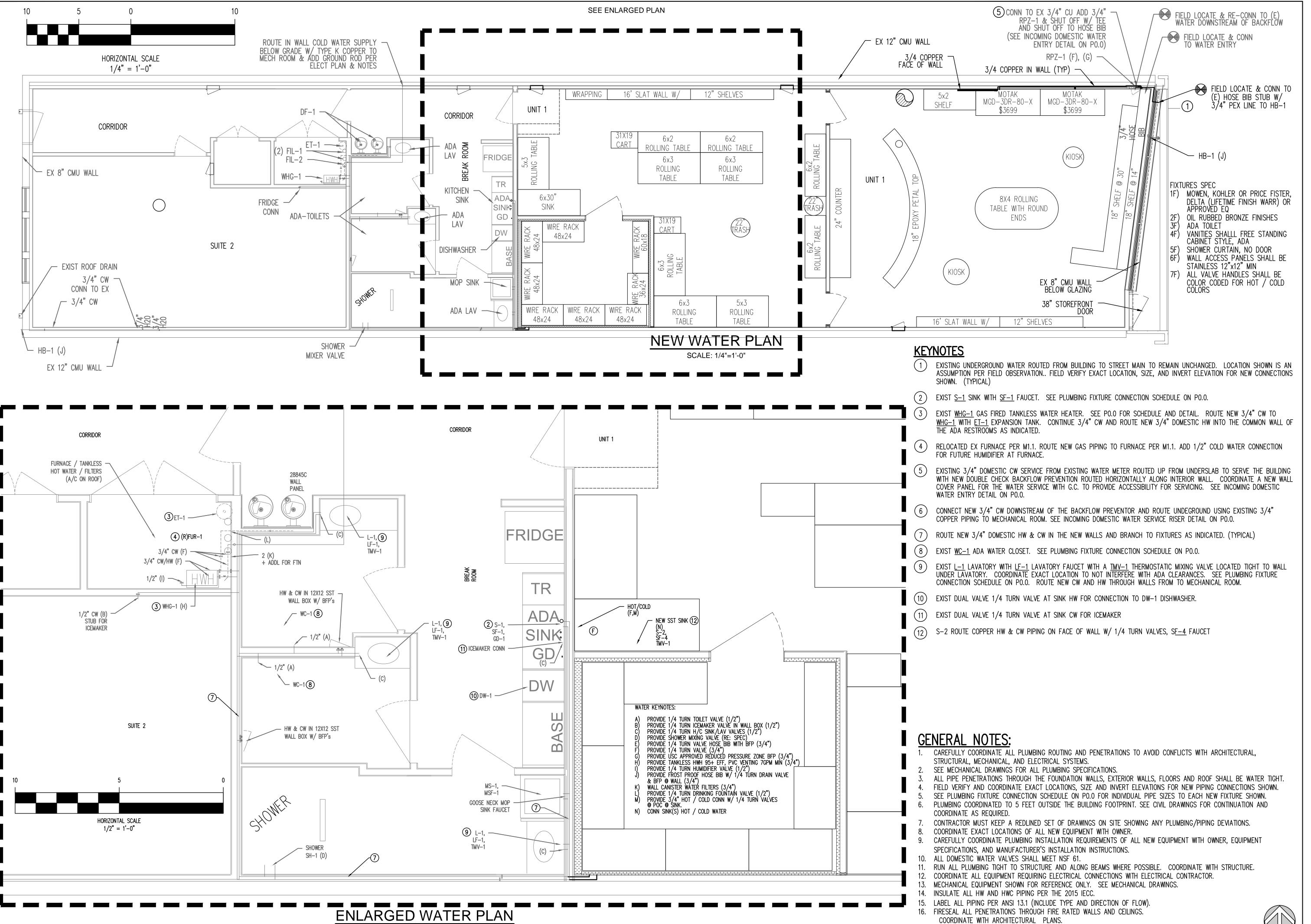
GENERAL NOTES:

- CAREFULLY COORDINATE ALL PLUMBING ROUTING AND PENETRATIONS TO AVOID CONFLICTS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS.
- SEE MECHANICAL DRAWINGS FOR ALL PLUMBING SPECIFICATIONS.
- ALL PIPE PENETRATIONS THROUGH THE FOUNDATION WALLS, EXTERIOR WALLS, FLOORS AND ROOF SHALL BE WATER TIGHT. SLOPE ALL WASTE PIPING 3" AND LARGER INSIDE BUILDING AT A 1/4" PER FOOT UNLESS INVERT ELEVATION OF CONNECTION TO THE EXISTING SEWER CANNOT BE MET. THE MINIMUM SLOPE IS 1/8" PER FOOT. SLOPE ALL WASTE PIPING 2-1/2" AND SMALLER AND ALL HORIZONTAL VENT PIPING AT 1/4" PER FOOT.
- FIELD VERIFY AND COORDINATE EXACT LOCATIONS, SIZE AND INVERT ELEVATIONS FOR NEW PIPING CONNECTIONS SHOWN.
- SEE PLUMBING FIXTURE CONNECTION SCHEDULE ON PO.O FOR EACH NEW FIXTURE CODE INDICATED. PLUMBING COORDINATED TO 5 FEET OUTSIDE THE BUILDING FOOTPRINT. SEE CIVIL DRAWINGS FOR CONTINUATION AND COORDINATE AS
- CONTRACTOR MUST KEEP A REDLINED SET OF DRAWINGS ON SITE SHOWING ANY PLUMBING/PIPING DEVIATIONS.
- COORDINATE EXACT LOCATIONS OF ALL NEW EQUIPMENT WITH OWNER. 10. CAREFULLY COORDINATE PLUMBING INSTALLATION REQUIREMENTS OF ALL NEW EQUIPMENT WITH OWNER, EQUIPMENT SPECIFICATIONS, AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 11. PROVIDE WALL CLEAN OUTS UNDER ALL NEW SINKS AND LAVATORIES. PROVIDE ALL OTHER CLEANOUTS PER CODE.
- 12. RUN ALL PLUMBING TIGHT TO STRUCTURE AND ALONG BEAMS WHERE POSSIBLE. COORDINATE WITH STRUCTURE.
- 13. COORDINATE ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR.
- 14. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS.
- 15. LABEL ALL PIPING PER ANSI 13.1 (INCLUDE TYPE AND DIRECTION OF FLOW). 16. FIRESEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
- 17. REFERENCE ARCHITECTURAL PLANS FOR ALL DEMO WORK SHOWN DASHED. SEE P1.1 & P1.2 FOR NEW PLUMBING WORK.
- 18. SEE P1.1 FOR WASTE & VENT ISOMETRIC.



SEWER PLAN

P1.2



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

723 MAIN

Theodore Schultz, Architect, LLC. 863 Santa Fe Drive Denver, CO 80204 ted@tlsarchitect.com 303-875-8719

ROYALTY ARRANGEMENTS (UNIT 1 OCCUPANCY PERMIT) LONGMONT, CO 80501

PROJECT No. 723-FLWR
DESIGN BY: CWK
CHECKED BY: CWK
ISSUED FOR: DATE:
CONCEPT 3.7.2023

WATER

PLAN

SHEET

17. REFERENCE ARCHITECTURAL PLANS FOR ALL DEMO WORK SHOWN DASHED.

SEE P1.1 & P1.2 FOR NEW PLUMBING WORK.