

LEE'S SUMMIT

MIDDLE SCHOOL #4

PACKAGE 3 - BUILDING & SITE

1001 SE BAILEY ROAD

ISSUE FOR PERMIT - VOLUME 1 OF 2

INDEX OF DRAWINGS

10/08/20

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VICINITY MAP



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LEE'S SUMMIT MIDDLE SCHOOL #4

PACKAGE 3 - BUILDING & SITE

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

ISSUE FOR PERMIT - VOLUME 2 OF 2

INDEX OF DRAWINGS

10/08/20

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FP1.1G	FIRE PROTECTION FIRST LEVEL RCP - AREA G
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E2.2B	POWER SECOND LEVEL PLAN - AREA B
E2.2C	POWER SECOND LEVEL PLAN - AREA C
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E3.3C	EQUIPMENT CONNECTION ROOF PLAN - AREA C
E3.3D	EQUIPMENT CONNECTION ROOF PLAN - AREA D
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TN1.1C	TECHNOLOGY FIRST LEVEL PLAN - AREA C
TN1.1D	TECHNOLOGY FIRST LEVEL PLAN - AREA D
TN1.1E	TECHNOLOGY FIRST LEVEL PLAN - AREA E
TN1.1F	TECHNOLOGY FIRST LEVEL PLAN - AREA F
TN1.1G	TECHNOLOGY FIRST LEVEL PLAN - AREA G
TN1.1S	TECHNOLOGY FIRST LEVEL PLAN - AREA S
TN1.2A	TECHNOLOGY SECOND LEVEL PLAN - AREA A
TN1.2B	TECHNOLOGY SECOND LEVEL PLAN - AREA B
TN1.2C	TECHNOLOGY SECOND LEVEL PLAN - AREA C
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TN1.2F	TECHNOLOGY SECOND LEVEL PLAN - AREA F
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TN2.1B	TECHNOLOGY FIRST LEVEL RCP - AREA B
TN2.1C	TECHNOLOGY FIRST LEVEL RCP - AREA C
TN2.1D	TECHNOLOGY FIRST LEVEL RCP - AREA D
TN2.1E	TECHNOLOGY FIRST LEVEL RCP - AREA E
TN2.1F	TECHNOLOGY FIRST LEVEL RCP - AREA F
TN2.1G	TECHNOLOGY FIRST LEVEL RCP - AREA G
TN2.2A	TECHNOLOGY SECOND LEVEL RCP - AREA A
TN2.2B	TECHNOLOGY SECOND LEVEL RCP - AREA B
TN2.2C	TECHNOLOGY SECOND LEVEL RCP - AREA C
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LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS
1 ADDENDUM 002 10/19/20

13-20102-00

COVER SHEET -
VOLUME 2

0.02

BN 3607/13/2016/2-01 Lee's Summit Middle School 4/13/2016/2-01 Lee's Summit Middle School 4 - ARCH 2/20/16
10/20/20 8:55:01 PM

ABBREVIATIONS

# & @	NUMBER AND AT	EXP EXP EXT	EXPANSION EXPOSED EXTERIOR
AB	ANCHOR BOLT	F	FABRIC
AB	AIR BARRIER	F.O.	FACE OF
ABS	ASBESTOS	F.V.	FIELD VERIFY
ACC	ADA ACCESSIBLE	FAB	FABRICATE(D)
ACR	ACRYLIC	FB	FACE BRICK
AD	ACCESS DOOR	FD	FLOOR DRAIN
ADA	AMERICANS WITH DISABILITY ACT	FDN	FOUNDATION
ADDN	ADDITION OR ADDITIONAL	FE	FIRE EXTINGUISHER
ADJ	ADJUSTABLE	FEC	FIRE EXTINGUISHER CABINET
ADJT	ADJACENT	FF	FINISH FLOOR
ADMIN	ADMINISTRATION	PH	FIRE HYDRANT
AEC	AUTOMATED EXTERNAL DEFIBRILLATORS	FHC	FIRE HOSE CABINET
AFF	ABOVE FINISHED FLOOR	FIG	FIGURE
AFG	ABOVE FINISHED GRADE	FIN	FINISHED
AHJ	AUTHORITY HAVING JURISDICTION	FIX	FIXTURE
AL	ALUMINUM	FL	FLOOR
ALT	ALTERNATE	FLASH	FLASHING
ALUM	ALUMINUM	FLEX	FLEXIBLE
ANCH	ANCHOR	FLG	FLOORING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FLM	FULL LENGTH MIRROR
AP	ACCESS PANEL	FLUOR	FLUORESCENT
APC	ACOUSTIC PANEL CEILING	FO	FINISH OPENING
APPROX	APPROXIMATE	FOC	FACE OF CONCRETE
ARCH	ARCHITECTURAL	FOF	FACE OF FINISH
ASPH	ASPHALT	FOM	FACE OF MASONRY
AUTO	AUTOMATIC	FOS	FACE OF STUD
AVG	AVERAGE	FOW	FACE OF WALL
AWP	ACOUSTIC WALL PANEL	FP	FIREPROOFING
		FR	FIRE RESISTANT
		FRP	FIBERGLASS REINFORCED PANEL
		FRT	FIRE RESISTANCE TREATED
		FS	FLOOR SINK
		FSS	FOLDING SHOWER SEAT
		FT	FEET
		FTG	FOOTING
		FUT	FUTURE
		FVC	FIRE VALVE CABINET
		FWC	FABRIC WALL COVERING
		G	GROUT
		GA	GAUGE
		GAL	GALLON
		GALV	GALVANIZED
		GB	GRAB BAR
		GC	GENERAL CONTRACTOR
		GO	GARBAGE DISPOSAL
		GEN	GENERAL
		GFA	GROSS FLOOR AREA
		GL	GLASS
		GLP	GLUE LAMINATED
		GMP	GUARANTEED MAXIMUM PRICE
		GOVT	GOVERNMENT
		GR	GUARD RAIL
		GR	GRADE
		GRS	GALVANIZED RIGID STEEL
		GWB	GYP SUM WALL BOARD
		GYP	GYP SUM
		H	HEIGHT
		HC	HOLLOW CORE
		HD	HAND DRYER
		HDBB	HARDBOARD
		HDR	HEADER
		HDWD	HARDWOOD
		HDWR	HARDWARE
		HM	HOLLOW METAL
		HORIZ	HORIZONTAL
		HR	HOUR
		HR	HANDRAIL
		HS	HARDWARE SET
		HSS	HOLLOW STRUCTURAL SHAPE
		HVAC	HEATING VENTILATING AND AIR CONDITIONING
		I.e.	THAT IS
		IAW	IN ACCORDANCE WITH
		IBC	INTERNATIONAL BUILDING CODE
		ID	INSIDE DIAMETER
		IF	INSIDE FACE
		I	ISOLATION JOINT
		JS	IN JOIST SPACE
		IN	INCH
		INC	INCLUDING(S)
		INSUL	INSULATION
		INT	INTERIOR
		JAN	JANITOR
		JCT	JUNCTION
		JFB	JOINT FILLER BOARD
		JST	JOIST
		JT	JOINT
		KCJ	KEYED CONSTRUCTION JOINT
		KD	KNOCKDOWN
		KH	KITCHEN HOOD
		KIT	KITCHEN
		L	ANGLE
		LAB	LABORATORY
		LAM	LAMINATED
		LAV	LAVATORY
		LB(S)	POUND(S)
		LBR	LUMBER
		LDG	LOADING
		LF	LINEAR FOOT
		LG	LENGTH (LONG)
		LG	LAMINATED GLASS
		LIN	LINEAR
		LINO	LINOLEUM
		LKR	LOCKER
		LOC	LOCATION
		LONG	LONGITUDINAL
		LSC	LIFE SAFETY CODE
		LTG	LIGHTING
		LV	LOUVER
		LVT	LUXURY VINYL TILE
		LWC	LIGHT WEIGHT CONCRETE
		M	THOUSAND
		MAG	MAGNETIC
		MAINT	MAINTENANCE
		MAN	MANUAL
		MAS	MASONRY
		MATL	MATERIAL
		MAX	MAXIMUM
		MB	MOP BASIN
		MBD	MARKER BOARD
		MBH	MOPBROOM HOLDER
		MC	MEDICINE CABINET
		MECH	MECHANICAL
		EJ	MEMBRANE
		MEZZ	MEZZANINE
		MFR	MANUFACTURER
		MH	MANHOLE
		MIN	MINIMUM
		EMER	MISCELLANEOUS
		ENCL	MIRROR WITH SHELF
		ENG	ENGINEER
		ENTR	ENTRANCE
		EQ	EQUAL
		EQUIP	EQUIPMENT
		EQUIV	EQUIVALENT
		ERF	EPOXY RESIN FLOORING
		EUI	ENERGY USE INTENSITY
		EWC	ELECTRIC WATER COOLER
		EXIST	EXISTING
		N	NORTH
		NA	NOT APPLICABLE
		NC	NOISE CRITERIA
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
		NIC	NOT IN CONTRACT
		NOM	NOMINAL
		NTS	NOT TO SCALE

NWC	NORMAL WEIGHT CONCRETE	VERT	VERTICAL
O to O	OUT TO OUT	VEST	VESTIBULE
OA	OVERALL	VF	VINYL FLOOR
OC	ON CENTER	VOC	VOLATILE ORGANIC COMPOUND
OCFI	OWNER FURNISHED CONTRACTOR INSTALLED	VOL	VOLUME
OFF	OFFICE	VP	VENEER PLASTER
OFOI	OWNER FURNISHED OWNER INSTALLED	VT	VINYL TILE
OPG(S)	OPENING(S)	VVC	VINYL WALL COVERING
OPP	OPPOSITE		
OSHA	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION	W	WEST
OTB	OPEN TO BELOW	W	WIDE
OVFL	OVERFLOW	WI	WITH
OVHD	OVERHEAD	W/O	WITHOUT
		WB	WALL BASE
		WC	WATER CLOSET
P	PAINT	WC	WALL COVERING
PAN B	PANIC BOLT	WCL	WATER CLOSET/LAVATORY COMBINATION
PAR	PARALLEL	VD	WOOD
PAR	PARTICLE BOARD	WDF	WOOD FLOORING
PB	PRECAST CONCRETE	WDF	WINDOW
PC	PAPER CUP DISPENSER	WDW	WINDOW
PCT	PORCELAIN CERAMIC TILE	WIG	POLISHED WIRE GLASS
PD	PANIC DEVICE	WI	WROUGHT IRON
PENT	PENTHOUSE	WOM	WALK OFF MAT
PERF	PERFORATED	WR	WASTE RECEPTACLE
PERP	PERPENDICULAR	WRB	WEATHER RESISTANT BARRIER
PG	PATTERN GLASS	WW	WARM WHITE
PIC	PORTABLE INSTRUMENT CONNECTION	WWF	WELDED WIRE FABRIC
PIM	PATTERN INSULATING GLASS		
PL	PLATE	YD	YARD
PL	PROPERTY LINE		
PL	PLASTIC LAMINATE		
PLAM	PLASTIC LAMINATE		
PLMBG	PLUMBING		
PLYWD	PLYWOOD		
PR	PAIR		
PREFAB	PREFABRICATED		
PROJ	PROJECT(OR) (ION)		
PS	PROJECTION SCREEN		
PT	POINT		
PTD	PAPER TOWEL DISPENSER		
PTDR	COMBINATION TOWEL DISPENSER/RECEPTACLE		
PTN	PARTITION		
PVC	POLYVINYL CHLORIDE		
PWL	SOUND POWER LEVEL		
QT	QUARRY TILE		
QTR RND	QUARTER ROUND		
QTY	QUANTITY		
RAD	RADIUS		
RB	RUBBER BASE		
RC	REMOTE CONTROL		
RCF	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFERENCE		
REFL	REFLECTED		
REM	REMOVABLE		
REQ(D)	REQUIRE(D)		
RESIL	RESILIENT		
REV	REVISION(S)		
RF	RESILIENT FLOORING		
RFB	RUBBER FLOOR		
RFM	RECESSED FLOOR MAT		
RH	ROBE HOOK		
R&C	ROUGH IN AND CONNECT		
RM	ROOM		
RND	ROUND		
S	SOUTH		
S	SINK		
SAT	SPRAYED ACOUSTIC TREATMENT		
SAW	SOUND ABSORBING WALL UNITS		
SB	SPLASH BLOCK		
SC	SOLID CORE		
SC	SHOWER CURTAIN		
SCD	SEAT COVER DISPENSER		
SCH	SHOWER CURTAIN HOOK		
SCHED	SCHEDULE		
SCR	SHOWER CURTAIN ROD		
SCT	STRUCTURAL CLAY TILE		
SD	SOAP DISPENSER		
SECT	SECTION		
SECY	SECRETARY		
SG	SPANDREL GLASS		
SSL	SINGLE		
SH	SHOWER		
SHM	SECURITY HOLLOW METAL		
SHT	SHEET		
SIM	SIMILAR		
SJCT	SEALANT		
SM	SHEET METAL		
SND	SANITARY NAPKIN DISPOSAL		
SNV	SANITARY NAPKIN VENDOR		
SPEC	SPECIFICATION(S)		
SPL	SOUND PRESSURE LEVEL		
SQ	SQUARE		
SS	STAINLESS STEEL		
SS	SOLID SURFACE		
SSA	STORM SHELTER AREA		
SSS	STAINLESS STEEL SHELF		
ST	STONE		
ST	STAIR		
STAGD	STAGGERED		
STC	SOUND TRANSMISSION CLASS		
STD	STANDARD		
STRGR	STRINGER		
STL	STEEL		
STOR	STORAGE		
STRUCT	STRUCTURAL		
SUBFL	SUBFLOOR		
SURF	SURFACE		
SUSP	SUSPENDED		
SV	SHEET VINYL		
SYM	SYMMETRICAL		
T	TREAD		
T&G	TONGUE AND GROOVE		
T.O.	TOP OF		
TAN	TANGENT		
TB	TOWEL BAR		
TBD	TACK BOARD		
TCF	TOILET COMPARTMENT PARTITION		
TEMP	TEMPORARY		
TERR	TERRAZZO		
TG	TINTED FLOAT GLASS		
TH	THRESHOLD		
TI	TEENANT IMPROVEMENT		
TIG	TINTED INSULATING GLASS		
TILT	TILT MIRROR UNIT		
TOP	TOP OF PAVING		
TRANS	TRANSVERSE		
TT	TERRAZZO TILE		
TTD	TOILET TISSUE DISPENSER		
TTG	TINTED TEMPERED FLOAT GLASS		
TTIG	TINTED TEMPERED INSULATING GLASS		
TW	TACK WALL		
TYP	TYPICAL		
UL	UNDERWRITERS LABORATORIES		
UNEX	UNEXCAVATED		
UNFN	UNFINISHED		
UNO	UNLESS NOTED OTHERWISE		
UR	URINAL		
US	UTILITY SHELF		
UTIL	UTILITY		
VB	VAPOR BARRIER		
VB	VINYL BASE		
VCB	VENTED COVE BASE		

VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FLOOR
VOC	VOLATILE ORGANIC COMPOUND
VOL	VOLUME
VP	VENEER PLASTER
VT	VINYL TILE
VVC	VINYL WALL COVERING
W	WEST
W	WIDE
WI	WITH
W/O	WITHOUT
WB	WALL BASE
WC	WATER CLOSET
WC	WALL COVERING
WCL	WATER CLOSET/LAVATORY COMBINATION
WD	WOOD
WDF	WOOD FLOORING
WDF	WINDOW
WDW	WINDOW
WIG	POLISHED WIRE GLASS
WI	WROUGHT IRON
WOM	WALK OFF MAT
WR	WASTE RECEPTACLE
WRB	WEATHER RESISTANT BARRIER
WW	WARM WHITE
WWF	WELDED WIRE FABRIC
YD	YARD

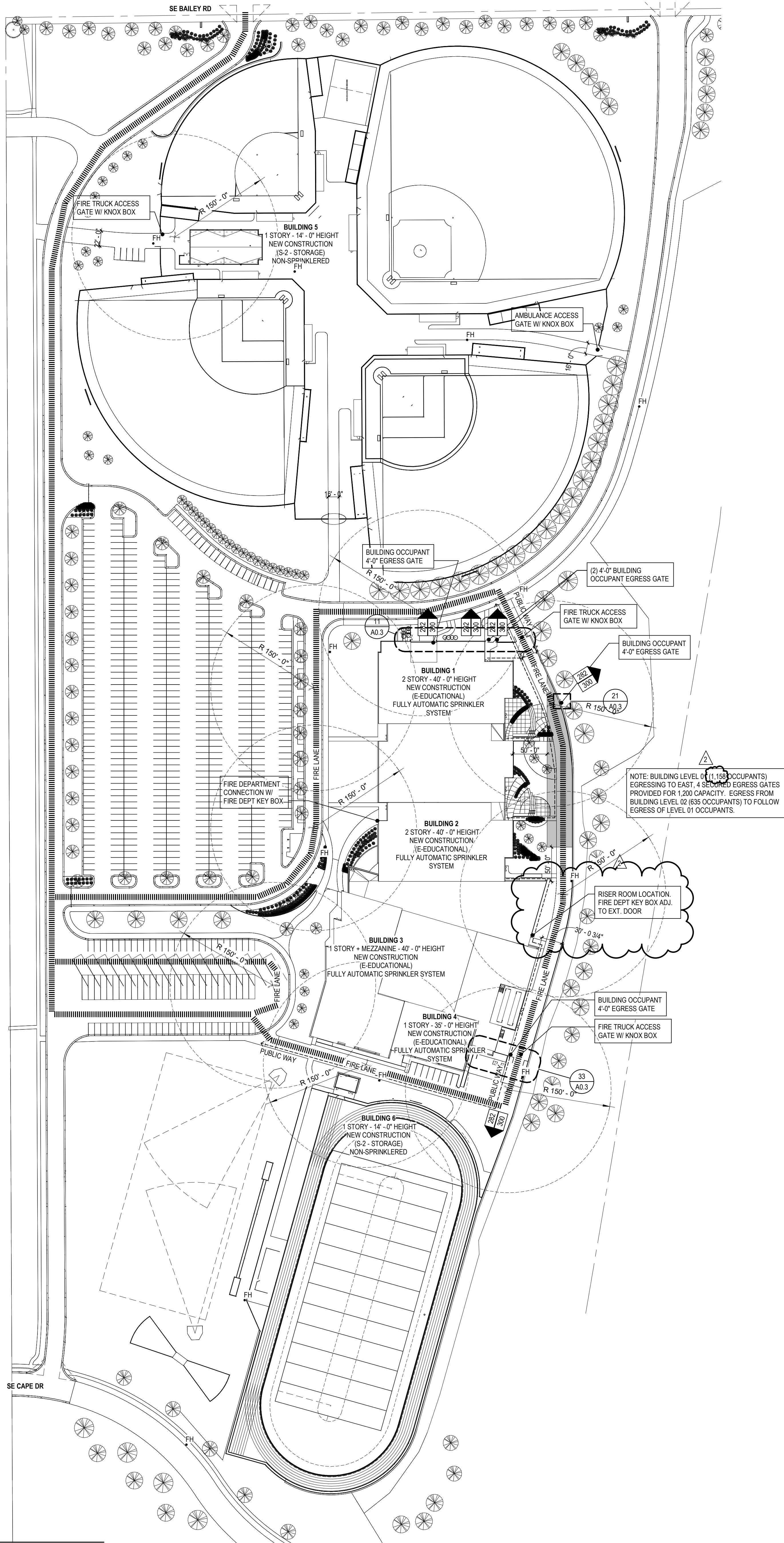
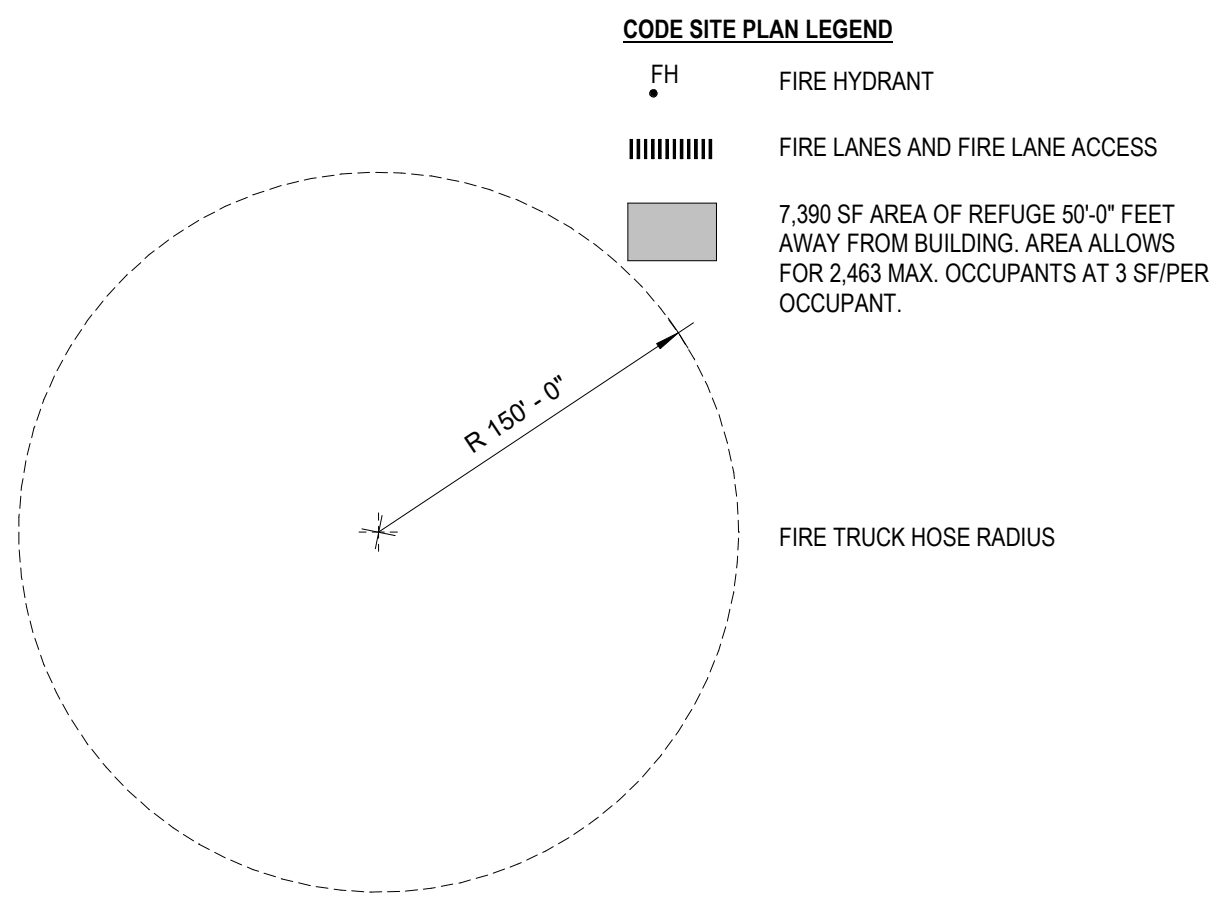
GENERAL SYMBOLS

	DETAIL NUMBER		EARTH
	CROSS REFERENCE		GRAVEL
	SHEET NUMBER		SAND
	SIMILAR OR TYPICAL REFERENCE		CONCRETE
	WALL SECTION		PRECAST CONCRETE
	BUILDING SECTION		STEEL
	BUILDING ELEVATION		GYM FLOOR
	INTERIOR ELEVATION		WOOD (CONTINUOUS BLOCKING)
	CASE/ELEVATION		WOOD (NON-CONTINUOUS BLOCKING)
	KEYNOTE		WOOD (TRIM/FINISH)
	COLUMN GRID LINE		GLASS
	ROOM NUMBER/NAME		STONE
	DOOR NUMBER / INTERIOR WINDOW		SHINGLES
	EXTERIOR WINDOW NUMBER		CONCRETE MASONRY UNIT
	WALL TYPE		BRICK VENEER
	REVISION NUMBER		STEEL (LARGE SCALE)
			PLYWOOD (LARGE SCALE)
			GYPSUM WALL BOARD
			BATT INSULATION
			RIGID INSULATION
			SPRAY FOAM INSULATION
			FIRE SAFING INSULATION
			PROTECTION BOARD
			CARPET (LARGE SCALE)
			ACOUSTIC TILE (LARGE SCALE)
			TILE (LARGE SCALE)

SITE SYMBOLS

	PROPERTY LINE		AREA INLET
	LOT LINE		CURB INLET
	EASEMENT LINE		MANHOLE
	BUILDING LINE, EXISTING		OBSERVATION RISER
	BUILDING LINE, NEW		HEAD WALL
	OPENING AND STRUCTURAL STOOP		FLARED END
	PRIMARY CONTOUR, EXISTING		CLEAN OUT
	PRIMARY CONTOUR, NEW		CAP
	SECONDARY CONTOUR, EXISTING		THRUST BLOCK
	SECONDARY CONTOUR, NEW		VALVE
	SLOPE, PAVEMENT		POST INDICATOR VALVE
	DRAINAGE DITCH OR SWALE		REDUCER
	STREET CENTERLINE		MAGNESIUM ANODE
	CURB, THICKENED EDGE		DIELECTRIC COUPLING
	CURB, EXISTING		CATHODIC TEST STATION
	CURB, NEW		FIRE HYDRANT
	PAVING CONTRACTION JOINT		POWER POLE
	PAVING KEYED CONSTRUCTION JOINT		LIGHT POLE
	PAVING EXPANSION JOINT		TELEPHONE MANHOLE
	FENCE, SECURITY		TELEPHONE BOX
	FENCE, BARBED WIRE		SPRINKLER HEAD, 360°
	FENCE, CHAIN LINK		SPRINKLER HEAD, 270°
	FENCE, WOOD		SPRINKLER HEAD, 180°
	SEED LIMIT		SPRINKLER HEAD, 90°
	SOD LIMIT		QUICK COUPLING
	STORM DRAIN		TREE, EXISTING DECIDUOUS
	SUBRAIN		TREE, EXISTING CONIFER
	SUBRAIN, PERFORATED		SHADE TREE
	SANITARY SEWER		ORNAMENTAL TREE
	FORCE MAIN		DECIDUOUS TREE
	WATER		SHRUB
	FIRE		CLIPPED SHRUB
	GAS		
	HIGH PRESSURE STEAM		
	MEDIUM PRESSURE STEAM		
	LOW PRESSURE STEAM		
	UNDERGROUND ELECT/TELEPHONE		
	OVERHEAD POWER		
	LAWN SPRINKLER HOT LINE		
	LAWN SPRINKLER LATERAL		

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SYMBOL LEGEND

	- OCCUPANCY LOAD
	- ACCESSORY USE AREA (OCCUPANCY LOAD IS NOT INCLUDED IN LOADS BEYOND THIS ROOM)
	- COMBINED OCCUPANT LOAD AT A GIVEN DOOR OR STAIR - TOTAL EXIT CAPACITY OF DOOR OR STAIR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.15 THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS: WIDTH IN INCHES DIVIDED BY 0.2 FOR SPRINKLERED PER 1005.3.1 EXCEPTION 1)
	- COMBINED OCCUPANT LOAD AT A GIVEN DOOR (SUM OF THESE EQUALS TOTAL OCCUPANT LOAD) - TOTAL EXIT CAPACITY OF DOOR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.15)
	- PANIC DEVICE
	XX MIN - DOOR FIRE RATING

WALL SEPARATION LEGEND

WALL HOURLY RATING	WALL FIRE RATING TYPE
0 = 0 HOUR	C = CORRIDOR
12 = 12 HOUR	EW = EXTERIOR WALL
1 = 1 HOUR	FB = FIRE BARRIER
2 = 2 HOUR	FP = FIRE PARTITION
3 = 3 HOUR	FSB = FIRE/SMOKE BARRIER
SP = SMOKE PARTITION	FW = FIRE WALL
SW = SMOKE WALL	HK = HORIZONTAL EXIT
	SB = SMOKE BARRIER
	VS = VERTICAL SHAFT
	VX = VERTICAL EXIT
	XP = EXIT PASSAGEWAY

TYPICAL DOOR WIDTHS

DOOR WIDTH	CLEAR WIDTH	IBC 1005.1 FACTOR	ALLOWABLE OCCUPANCY
36"	33"	0.15	220
42"	39"	0.15	260
48"	45"	0.15	300
PAIR 36"	64"	0.15	426
PAIR 42"	76"	0.15	506
PAIR 48"	88"	0.15	586

EXIT ACCESS STAIRWAYS:

- EXIT ACCESS STAIRWAYS AND RAMPS - TRAVEL DISTANCE ON EXIT ACCESS STAIRWAYS OR RAMPS SHALL BE INCLUDED IN THE EXIT ACCESS TRAVEL DISTANCE MEASUREMENT PER IBC 2018 1017.3.1.
- TWO-STORY OPENINGS - OPENINGS DO NOT CONNECT MORE THAN TWO STORIES PER IBC 712.1.9, EXCEPTION 1.
- EXIT ACCESS STAIRWAYS AND RAMPS SERVE ONLY TWO STORIES PER IBC 1019.3, EXCEPTION 1, AND DO NOT REQUIRE A SHAFT ENCLOSURE.

BUILDING 1:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 43,500 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.3 SINGLE OCCUPANCY, MULTI STORY BUILDING IBC 506.3 FRONTAGE INCREASE):

$$IF = .6$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [43,500 + (14,500 * .6)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 52, 200

ACTUAL AREA PER FLOOR:

LEVEL 01: 20,385 SF

LEVEL 02: 20,385 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT (PER TABLE 504.3): 75' - 0"
ACTUAL BUILDING HEIGHT: 42' - 3"

BUILDING 2:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 43,500 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.3):

$$IF = .26$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [43,500 + (14,500 * .26)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 47, 270

ACTUAL AREA PER FLOOR:

LEVEL 01: 41,978 SF

LEVEL 02: 41,842 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT (PER TABLE 504.3): 75' - 0"
ACTUAL BUILDING HEIGHT: 42' - 3"

BUILDING 3:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 58, 000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.3):

$$IF = .67$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [58,000 + (14,500 * .67)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 67, 715

ACTUAL AREA PER FLOOR:

LEVEL 01: 61,768 SF

MEZZANINE AND EQUIPMENT PLATFORMS: 5,718 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 75'-0"
ACTUAL BUILDING HEIGHT: 32'-0"

BUILDING 4:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 58,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):

$$IF = .46$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [58,000 + (14,500 * .46)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 64,670

ACTUAL AREA PER FLOOR: LEVEL 01: 8,126 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 75'-0"
ACTUAL BUILDING HEIGHT: 32'-0"

BUILDING 5:

OCCUPANCY GROUP: S-2
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 26,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):
***NONSEPARATED USE OCCUPANCY - ALLOWABLE AREA AND HEIGHT OF BUILDING BASED ON MOST RESTRICTIVE ALLOWANCES PER 508.3.2.**

$$IF = .4$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [26,000 + (26,000 * .4)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 36,400

ACTUAL AREA PER FLOOR: 4,829 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 55'-0"

ACTUAL BUILDING HEIGHT: 14'-0"

BUILDING 6:

OCCUPANCY GROUP: S-2
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 26,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):

$$IF = .4$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [26,000 + (26,000 * .4)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 36,400

ACTUAL AREA PER FLOOR: 740 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 55'-0"

ACTUAL BUILDING HEIGHT: 14'-0"

PROJECT LOCATION:

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

OWNER NAME:

LEE'S SUMMIT R-7 SCHOOL DISTRICT

OWNER CONTACT:

KYLE GORRELL, DIRECTOR LSR7 FACILITY SERVICES

OWNER ADDRESS:

DEPARTMENT OF LEE'S SUMMIT SCHOOL DISTRICT
FACILITY SERVICES
502 SE TRANSPORT DRIVE
LEE'S SUMMIT, MO 64081

COUNTY: JACKSON COUNTY

FIRE DEPARTMENT:

LEE'S SUMMIT FIRE DEPARTMENT

WATER SUPPLY:

LEE'S SUMMIT WATER UTILITIES

AUTHORITY HAVING JURISDICTION:

CITY OF LEE'S SUMMIT

ARCHITECT OF RECORD:

DLR GROUP
7290 WEST 133RD STREET, OVERLAND PARK, KS 66213

CODES/REGULATIONS:

BUILDING: 2018 IBC
FIRE: 2018 INTERNATIONAL FIRE CODE
MECHANICAL: 2018 INTERNATIONAL MECHANICAL CODE
PLUMBING: 2018 INTERNATIONAL PLUMBING CODE
ELECTRICAL: 2017 NATIONAL ELECTRICAL CODE
ACCESSIBLE STANDARD: ICC/ANSI A117.1-2017

NEW CONSTRUCTION:

OCCUPANCY:
EDUCATIONAL GROUP E (SECTION 305): INSTRUCTIONAL AREAS
CONSTRUCTION TYPE (SECTION 602): TYPE IIB
ALLOWABLE HEIGHT (PER IBC TABLE 504.3): 75' - 0"
ALLOWABLE NUMBER OF STORIES (PER TABLE 504.4): 3

SEPARATION REQUIREMENTS:

BUILDING SEPARATION
PER TABLE 706.4: 2-HOUR FIRE WALL
*a. IN TYPE II CONSTRUCTION, WALLS SHALL BE PERMITTED TO HAVE A 2-HOUR FIRE-RESISTANCE RATING

LIFE SAFETY

AUTOMATIC FIRE SUPPRESSION SYSTEM THROUGHOUT
FIRE ALARMS THROUGHOUT
FIRE EXTINGUISHERS THROUGHOUT
EMERGENCY LIGHTING
FIRE DEPARTMENT CONNECTIONS -SEE CIVIL AND PLUMBING PLANS
FIRE ALARM ANNUNCIATOR PANEL (FAAP) - AT RECEPTION D100A
FIRE ALARM CONTROL PANEL (FACP) - AT ELECTRICAL C116
SMOKE CONTROL SYSTEM: NOT APPLICABLE
MANUAL ALARMS
COMMUNICATIONS AND ELECTRICAL ROOMS: NO UPS PROVIDED, NO RACK OF BATTERIES PROVIDED.
PENETRATIONS THROUGH FLOORS (PIPING, CONDUIT, ETC.): ANNULAR SPACE AROUND PENETRATING ITEMS TO BE FILLED WITH APPROVED MATERIALS TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION, PER 2018 IBC 714.6.2 AND 718.2.5.
DUCT PENETRATIONS THROUGH FLOORS: ANNULAR SPACE AROUND PENETRATING DUCT TO BE FILLED WITH AN APPROVED NON-COMBUSTIBLE MATERIAL THAT RESISTS THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION, PER 2018 IBC 717.6.3.2 AND 718.2.5

PLUMBING FIXTURES

	# OCCUPANTS		WC REQ'D		WC PROVIDED		LAV REQ'D		LAV PROVIDED		DRINKING FOUNTAINS	
	M	W	M	W	M	W	M	W	M	W	REQ'D	PROV.
STUDENTS/ FACULTY: NOTES: CALCULATIONS BASED ON IPC 4.1 REQ'TS. OCCUPANT LOAD BASED ON PROJECTED 1,200 STUDENT/ 260 FACULTY COUNT	730	730	15	15	17	17	15	15	17	17	15	20
MAIN GYMNASIUM - PERFORMANCE SPECIAL EVENT NOTES: COMPETITION & AUXILIARY GYMS ARE NON-SIMULTANEOUS USE FROM STUDENT OCCUPANCY. BASED ON 1,389 OCCUPANTS SEATED ON BLEACHERS AND FLOOR W/ 63 STAGE OCCUPANTS	714	714	6	12	12	12	4	4	7	7	3	6
MAIN GYMNASIUM - ATHLETIC COMPETITION (ASSEMBLY) NOTES: COMPETITION & AUXILIARY GYMS ARE NON-SIMULTANEOUS USE FROM STUDENT OCCUPANCY. BASED ON 615 OCCUPANTS SEATED ON BLEACHERS AND 125 ATHLETES AND OFFICIALS	370	370	3	6	12	12	2	2	7	7	2	6
BASERBALL/SOFTBALL COMPLEX (ASSEMBLY) NOTES: CALCULATIONS BASED ON IPC 4.1 REQ'TS. OCCUPANT LOAD BASED ON PROJECTED 1,200 STUDENT/ 260 FACULTY COUNT. TO BE USED AS DESIGNATED STORM SHELTER FOR STUDENT/FACULTY POPULATION. CALCULATIONS BASED ON ICC-500 REQUIREMENT FOR PLUMBING FIXTURES	300	300	4	8	4	8	2	2	2	4	1	2
TORNADO SHELTER NOTES: PER ICC 500 TABLE 702.2. OCCUPANT LOAD BASED ON PROJECTED 1,200 STUDENT/ 260 FACULTY COUNT. TO BE USED AS DESIGNATED STORM SHELTER FOR STUDENT/FACULTY POPULATION. CALCULATIONS BASED ON ICC-500 REQUIREMENT FOR PLUMBING FIXTURES	730	730	3	3	3	3	1	1	1	1	-	-

CODE PLAN, LEVEL 1

SCALE: 1" = 30'-0"

NORTH

SYMBOL LEGEND

- OCCUPANCY LOAD
- ACCESSORY USE AREA
(OCCUPANCY LOAD IS NOT INCLUDED IN LOADS BEYOND THIS ROOM)
- COMBINED OCCUPANT LOAD AT A GIVEN DOOR OR STAIR
(THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS:
CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.15
THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS
WIDTH IN INCHES DIVIDED BY 0.2 FOR SPRINKLERED PER 1005.3.1 EXCEPTION 1)
- COMBINED OCCUPANT LOAD AT A GIVEN DOOR. (SUM OF THESE EQUALS TOTAL OCCUPANT LOAD)
(THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS:
CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.15)
- PANIC DEVICE
XX MIN - DOOR FIRE RATING

WALL SEPARATION LEGEND

WALL HOURLY RATING	WALL FIRE RATING TYPE
0 = 0 HOUR	C = CORRIDOR
1/2 = 1/2 HOUR	EW = EXTERIOR WALL
1 = 1 HOUR	FB = FIRE BARRIER
2 = 2 HOUR	FP = FIRE PARTITION
3 = 3 HOUR	FSB = FIRE SMOKE BARRIER
SP = SMOKE PARTITION	FW = FIRE WALL
SW = SMOKE WALL	HX = HORIZONTAL EXIT
	SB = SMOKE BARRIER
	VS = VERTICAL SHAFT
	VX = VERTICAL EXIT
	XP = EXIT PASSAGEWAY

TYPICAL DOOR WIDTHS

DOOR WIDTH	CLEAR WIDTH	IBC 1005.1 FACTOR	ALLOWABLE OCCUPANCY
36"	33"	0.15	220
42"	39"	0.15	260
48"	45"	0.15	300
PAIR 36"	64"	0.15	426
PAIR 42"	76"	0.15	506
PAIR 48"	88"	0.15	586

BUILDING 1 - TYPE IIB - 2 STORY
20,293 SF
SPRINKLED

EXIT ACCESS TRAVEL DISTANCE LVL 2: 238'-0" < 250'-0"
(TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE)

MAXIMUM COMMON PATH OF TRAVEL LEVEL 2: 63'-0" < 75'-0"
(TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY)

BUILDING 2 - TYPE IIB - 2 STORY
40,842 SF
SPRINKLED

EXIT ACCESS TRAVEL DISTANCE: 238'-0" < 250'-0"
(TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE)

MAXIMUM COMMON PATH OF TRAVEL: 70'-0" < 75'-0"
(TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY)

BUILDING 3 - TYPE IIB - 1 STORY + MEZZANINE
65,957 SF
SPRINKLED

UPPER SEATING IS 144 < 147TH OF TOTAL BLEACHER, AND EGRESS DOWN STAIRS

IBC 1108.2.4 DISPERSION OF WHEELCHAIR SPACES. EXCEPTION #2:
IN MULTILEVEL ASSEMBLY SEATING AREAS WHERE THE SECOND FLOOR OR MEZZANINE LEVEL PROVIDES 25 PERCENT OR LESS OF THE TOTAL SEATING CAPACITY AND 300 OR FEWER SEATS, ALL WHEELCHAIR SPACES SHALL BE PERMITTED TO BE LOCATED ON THE MAIN LEVEL.

BUILDING 1:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 43,500 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE
(IBC 506.2.3 SINGLE OCCUPANCY, MULTI STORY BUILDING
IBC 506.3 FRONTAGE INCREASE):

IF= .6
Aa=[At + (NS * If)] * Sa
Aa=[43,500+(14,500*.6)]

TOTAL ALLOWABLE AREA PER FLOOR: 52, 200

ACTUAL AREA PER FLOOR:

LEVEL 01: 20,385 SF

LEVEL 02: 20,385 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT (PER TABLE 504.3): 75' - 0"

ACTUAL BUILDING HEIGHT: 42' - 3"

BUILDING 2:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 43,500 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.3):

IF= .26
Aa=[At + (NS * If)] * Sa
Aa=[43,500 + (14,500 * .26)]

TOTAL ALLOWABLE AREA PER FLOOR: 47, 270

ACTUAL AREA PER FLOOR:

LEVEL 01: 41,978 SF

LEVEL 02: 41,842 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT (PER TABLE 504.3): 75' - 0"

ACTUAL BUILDING HEIGHT: 42' - 3"

BUILDING 3:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 58, 000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.3):

IF= .67
Aa=[At + (NS * If)] * Sa
Aa=[58,000 + (14,500 * .67)]

TOTAL ALLOWABLE AREA PER FLOOR: 67, 715

ACTUAL AREA PER FLOOR:

LEVEL 01: 61,768 SF

MEZZANINE AND EQUIPMENT PLATFORMS: 5,718 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 75'-0"

ACTUAL BUILDING HEIGHT: 32'-0"

BUILDING 4:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 58,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):

IF= .46
Aa=[At + (NS * If)] * Sa
Aa=[58,000 + (14,500 * .46)]

TOTAL ALLOWABLE AREA PER FLOOR: 64,670

ACTUAL AREA PER FLOOR: LEVEL 01: 8,126 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 75'-0"

ACTUAL BUILDING HEIGHT: 32'-0"

BUILDING 5:

OCCUPANCY GROUP: S-2
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 26,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):
*NONSEPARATED USE OCCUPANCY - ALLOWABLE AREA AND HEIGHT OF
BUILDING BASED ON MOST RESTRICTIVE ALLOWANCES PER 508.3.2.

IF=.4
Aa=[At + (NS * If)] * Sa
Aa=[26, 000 + (26,000 * .4)]

TOTAL ALLOWABLE AREA PER FLOOR: 36,400

ACTUAL AREA PER FLOOR: 4,829 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 55'-0"

ACTUAL BUILDING HEIGHT: 14'-0"

BUILDING 6:

OCCUPANCY GROUP: S-2
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 26,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):

IF=.4
Aa=[At + (NS * If)] * Sa
Aa=[26, 000 + (26,000 * .4)]

TOTAL ALLOWABLE AREA PER FLOOR: 36,400

ACTUAL AREA PER FLOOR: 740 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 55'-0"

ACTUAL BUILDING HEIGHT: 14'-0"



CODE PLAN, LEVEL 02

SCALE: 1"=30'-0"

UL DESIGN W-L-5021

System No. WL-5021
January 09, 2003
F Rating – 2 Hr
F Rating – 1 Hr
T Rating – 12 Hr
L Rating At Ambient – 4 CFM/sq Ft
L Rating At 400°F – Less Than 1 CFM/sq Ft

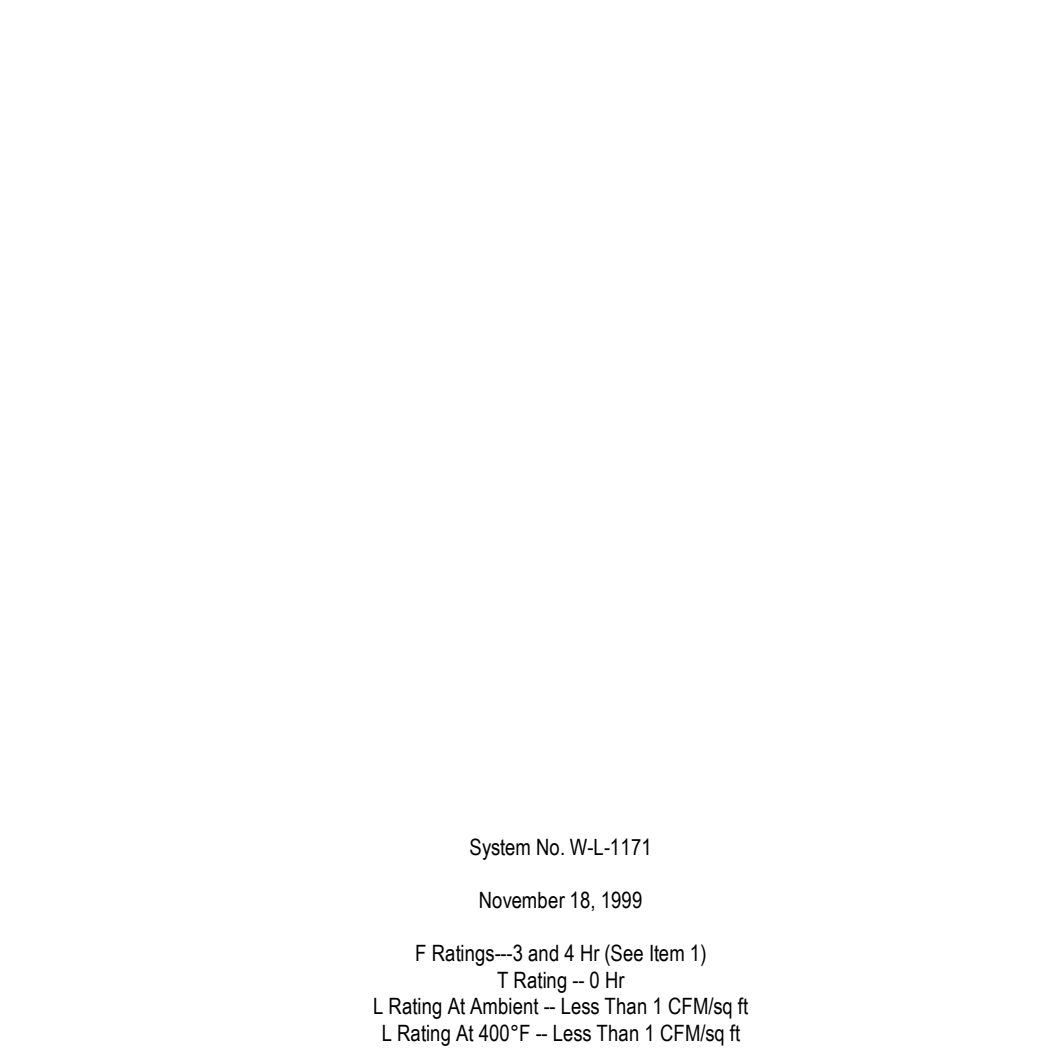
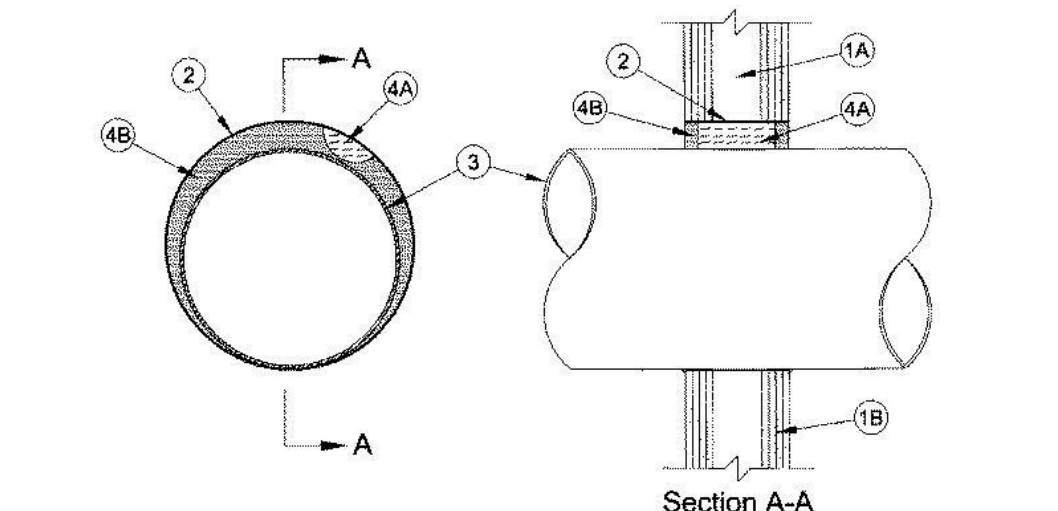
1. Wall Assembly – The fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-1/2 in. wide and spaced max 24 in. OC.
B. Gypsum Board – One layer of 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max dem of opening is 8 in.
C. Metallic Sleeve – Nom 8 in. diam (or smaller) Schedule 40 (or thinner) steel pipe cast into wall assembly with joint compound and installed flush with wall surface.
D. Copper Tubing – Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
E. Copper Tubing – Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
F. Copper Pipe – Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
G. Pipe Covering – Nom 1 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. An annular space of 3/4 in. is required within the freestop system.
See Pipe and Equipment Covering – Materials – (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material bearing the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

5. Packing Material – Nom 2-5/8 in. thickness of min 4.0 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of material.
6. Fill Void or Cavity Material – Sealant – Min 1-1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC. – FS-ONE Sealant
*Bearing the UL Classification Marking

UL DESIGN W-L-1171

System No. WL-1171
November 18, 1999
F Rating – 3 and 4 Hr (See Item 1)
T Rating – 0 Hr
L Rating At Ambient – Less Than 1 CFM/sq Ft
L Rating At 400°F – Less Than 1 CFM/sq Ft

1. Wall Assembly The 3 or 4 hr fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs Wall Framing shall consist of steel channel studs. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
B. Gypsum Board Multiple layers of min 1/2 in. thick gypsum wallboard. The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max dem of opening is 22 in.
C. Steel Sleeve Cylindrical sleeve fabricated from min 0.231 in. thick Nom 22 MSG galv steel and having a min 2 in. lap along the longitudinal seam. Sleeve installed by pulling the sheet steel to a diam smaller than the through opening, inserting the wall through the opening and releasing the coil to let it uncoil against the circular cutouts in the gypsum wallboard layers. The end of the steel sleeve shall be installed flush with each face of the wall or extend a max 1/4 in. beyond each surface of the wall.
3. Through Penetrants One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the freestop system. The annular space between the pipe, conduit or tubing and the periphery of the opening shall be min 0 in. (joint contacts) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe Nom 20 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Non Pipe Nom 20 in. diam (or smaller) cast or ductile iron pipe.
C. Conduit Nom 6 in. diam (or smaller) rigid steel conduit, nom 4 in. diam (or smaller) electrical metallic tubing or nom 1 in. diam (or smaller) flexible steel conduit.
D. Copper Tubing Nom 6 in. diam (or smaller) Type M (or heavier) copper tubing.
E. Copper Pipe Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
4. Freestop System The freestop system shall consist of the following:
A. Packing Material 4 in. fire-rated assemblies, min 5-5/8 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
B. Fill Void or Cavity Material – Castik Fill 1 in. thickness of fill material applied within the annulus, flush with both ends of steel sleeve. A min 1/4 in. thick bead of fill material shall be applied at the joint contact location on both surfaces of wall. When sleeve projects beyond surface of wall, a min 1/4 in. thick bead of caulk shall be applied to outer perimeter of sleeve at joint contact location.
SPECIFIED TECHNOLOGIES INC. – SpecSeal 100, 101, 102, 120, 105 Sealant
*Bearing the UL Classification Marking



UL DESIGN U906

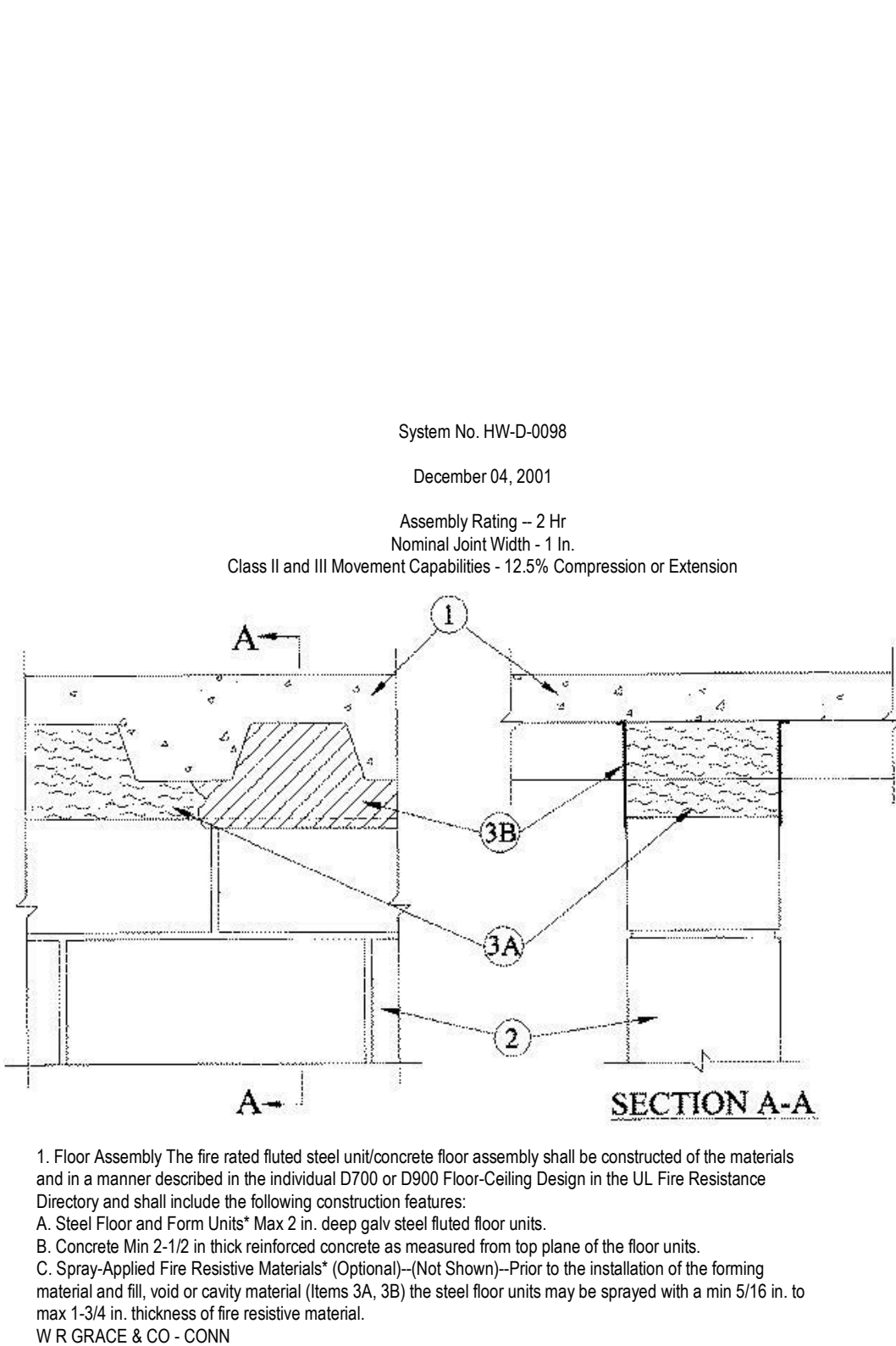
Design No. U906
December 02, 1999
Bearing Wall Rating – 2 Hr
Nonbearing Wall Rating – 2 Hr

1. Concrete Blocks – Nominal 8 by 8 by 16 in. hollow or solid.
Classification D-2 (2 hr)
ANCHOR CONCRETE PRODUCTS INC
GAGNE & SON CONCRETE BLOCK INC
Allowable compressive stress of 75% of max allowable compressive stress in accordance with the empirical design method.

BETCO BLOCK PRODUCTS INC, DBA
ARTHUR WHITE CONC
WESTBROCK CONCRETE BLOCK CO INC
Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. Mortar – Blocks laid full bed of mortar, nom 3/8 in. thick, not less than 2-1/4 in. and not more than 3-1/2 pcf of clean sand with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. An annular space of 1-7/16 in. is required within the freestop system.
See Pipe and Equipment Covering – Materials – (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material bearing the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

5. Packing Material – Nom 2-5/8 in. thickness of min 4.0 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of material.
6. Fill Void or Cavity Material – Sealant – Min 1-1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC. – FS-ONE Sealant
*Bearing the UL Classification Marking



UL DESIGN HW-D-0098

System No. HW-D-0098
December 04, 2001
Assembly Rating – 2 Hr
Normal Load Width – 1 in.
Class II and III Movement Capabilities – 12.5% Compression or Extension

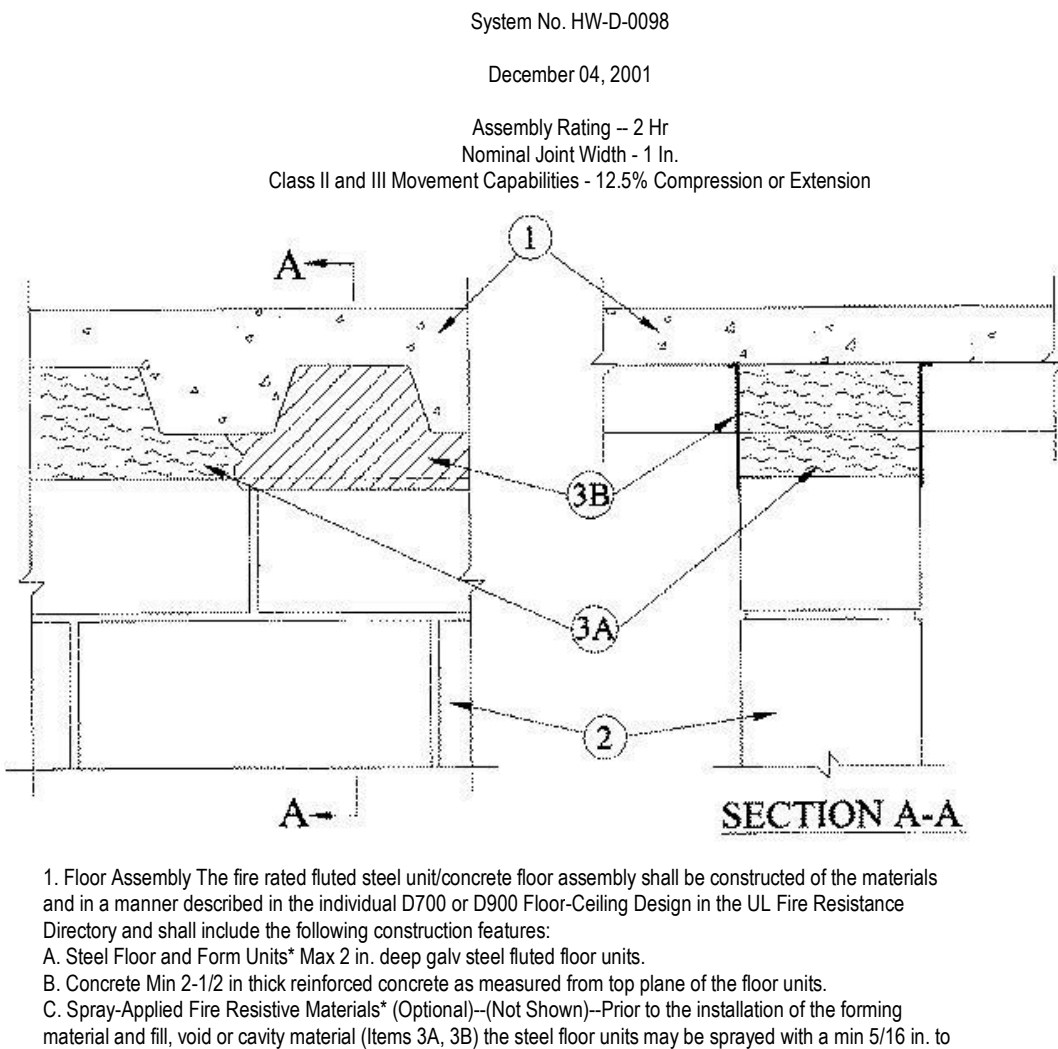
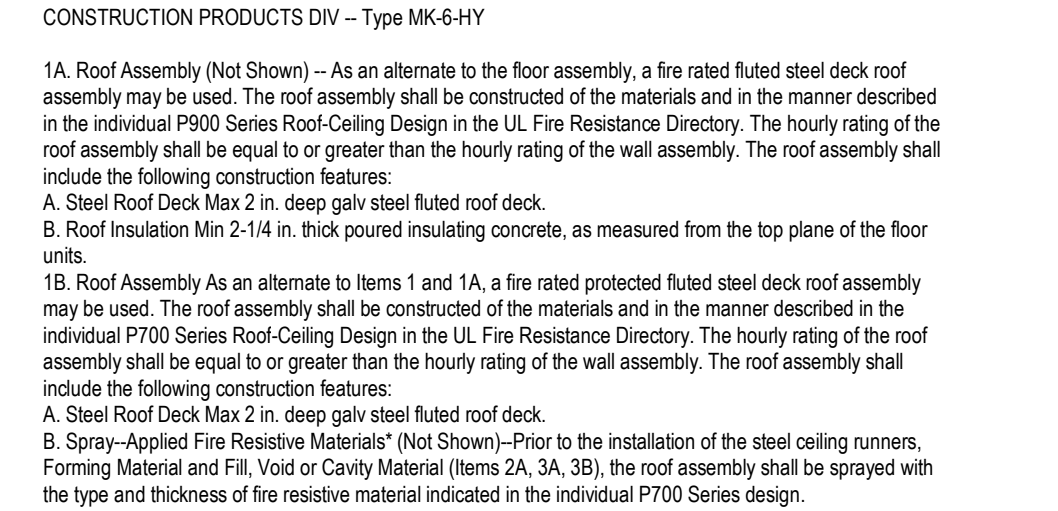
1. Floor Assembly The fire rated steel and/or concrete floor assembly shall be constructed of the materials and in the manner specified in the individual U700 or D600 Floor/Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
A. Steel Floor and Form Units Max 2 in. deep galv steel floor formed units.
B. Concrete Min 2-1/2 in. thick reinforced concrete as measured from top plane of the floor units.
C. Spray-Applied Fire Resistive Materials (Optional) – (Not Shown) – Prior to the installation of the forming material and fill, void or cavity material (Items 3A, 3B) the steel floor units may be sprayed with a min 5/16 in. to max 1-3/4 in. thickness of fire resistive material.
W R GRACE & CO – CONN
CONSTRUCTION PRODUCTS DIV. – Type MK-6HY

1A. Roof Assembly (Not Shown) – As an alternate to the floor assembly, a fire rated/protected steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof/Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
A. Steel Roof Deck Max 2 in. deep galv steel floor deck.
B. Roof Insulation Min 2-1/4 in. thick poured insulating concrete, as measured from the top plane of the floor units.
1B. Roof Assembly As an alternate to Items 1 and 1A, a fire rated/protected steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof/Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
A. Steel Roof Deck Max 2 in. deep galv steel floor deck.
B. Spray-Applied Fire Resistive Materials (Not Shown) – Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.

2. Wall Assembly Min 6 in. thick steel-reinforced lightweight or normal weight (100-150 pcf) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks.
See Concrete Blocks (CA27) category in the Fire Resistance Directory for names of manufacturers.

3. Joint System Max separation between bottom of floor and roof and top of wall at time of installation of joint system is 1 in. The joint system is designed to accommodate a max 12.5 percent compression or extension from its installed width. The joint system shall consist of the following:
A. Forming Material Nom 4-0 pcf mineral wool batt insulation compressed and firmly packed to completely fill the flutes and the gap between the top of the wall and bottom of the floor or roof as a permanent form. Batt insulation cut to the shape of the fluted steel deck, approx 33 percent larger than the flutes. Pieces compressed and installed vertically into the flutes above the top of the wall. Additional pieces of batt insulation, min 6 in. wide, installed edge-to-edge into joint opening between bottom of fluted steel deck and top of wall, parallel with joint direction, such that batt sections are compressed min 33 percent in thickness. Compressed batt sections are flush with both surfaces of wall. Adjoining lengths of batt to be tightly butted with butted seams spaced max 48 in. apart along the length of the joint.
ROCK WOOL MANUFACTURING CO. – Delta Board

A1. Forming Material (Optional Not Shown) Performance mineral wool plugs, formed to the shape of the fluted steel units, friction fit (completely fill the flutes) above the ceiling runner. The plugs shall be flush with both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of the wall and bottom of the floor units.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC. – CP777 StepSugs
*Bearing the UL Classification Marking



UL DESIGN U415

Design No. U415
June 10, 2003
Nonbearing Wall Ratings – 1, 2, 3 or 4 Hr

1. Floor, Side and Ceiling Runners – “J”-shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A or 4 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. “E”-shaped studs (Item 2A) may be used as side runners in place of “J”-shaped runners.

2. Steel Studs – “C”-H”-shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Item 7 is used) galv steel. Cut to lengths 38 in. OC. Flange portion of channel facing upward and spaced 24 in. OC.

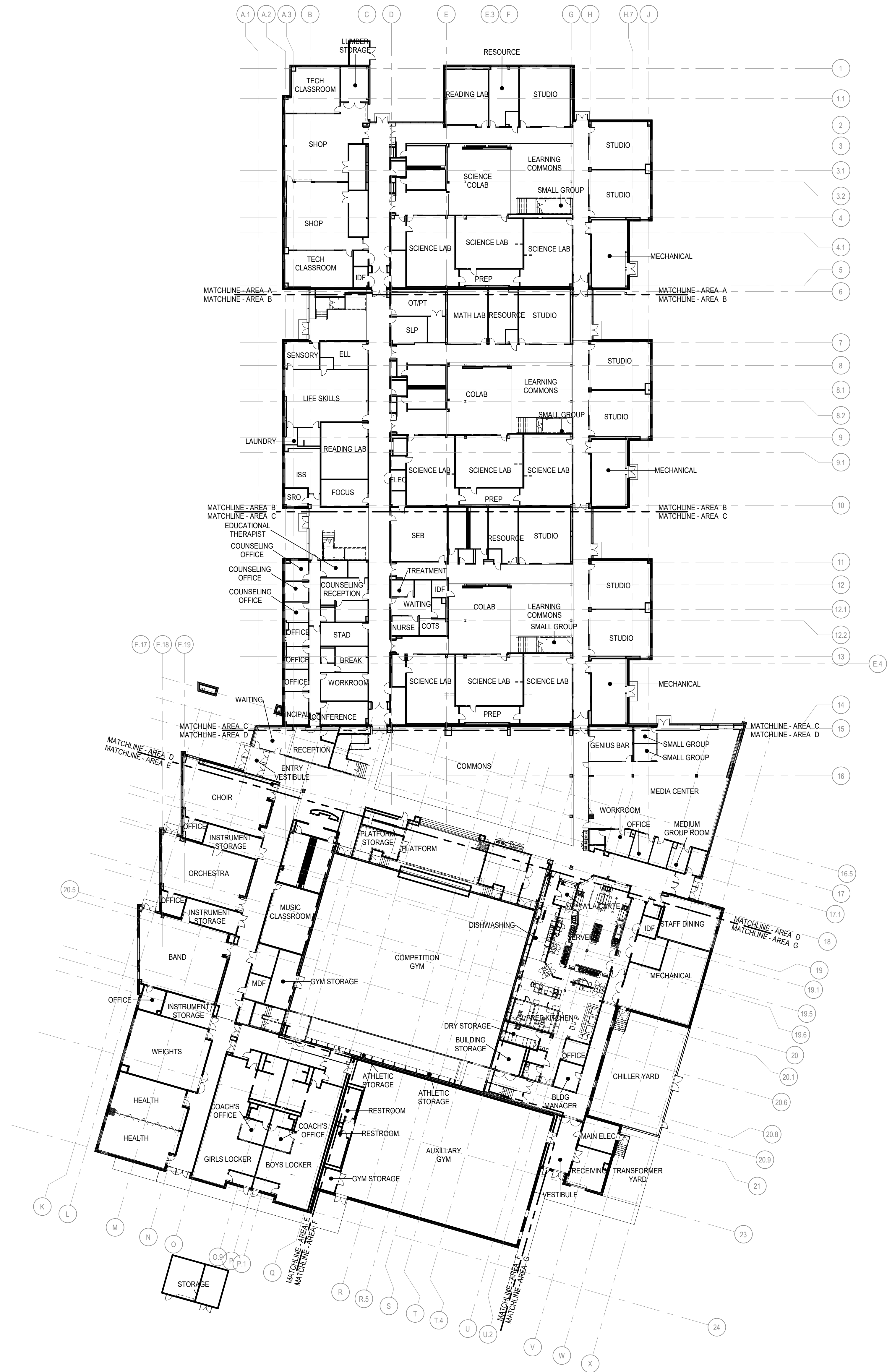
2A. Steel Studs – (Not Shown) – “E”-shaped studs installed back to back in place of “C”-H”-shaped studs (Item 2) “E”-shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 7 is used) galv steel. Horizontal joints need not be backed by steel framing. In System 1, butt joints in liner panels are staggered min 12 in. In System 2, butt joints are staggered min 12 in. In System 3, butt joints are staggered min 12 in. In System 4, butt joints are staggered min 12 in. In System 5, butt joints are staggered min 12 in. In System 6, butt joints are staggered min 12 in. In System 7, butt joints are staggered min 12 in. In System 8, butt joints are staggered min 12 in. In System 9, butt joints are staggered min 12 in. In System 10, butt joints are staggered min 12 in. In System 11, butt joints are staggered min 12 in. In System 12, butt joints are staggered min 12 in. In System 13, butt joints are staggered min 12 in. In System 14, butt joints are staggered min 12 in. In System 15, butt joints are staggered min 12 in. In System 16, butt joints are staggered min 12 in. In System 17, butt joints are staggered min 12 in. In System 18, butt joints are staggered min 12 in. In System 19, butt joints are staggered min 12 in. In System 20, butt joints are staggered min 12 in. In System 21, butt joints are staggered min 12 in. In System 22, butt joints are staggered min 12 in. In System 23, butt joints are staggered min 12 in. In System 24, butt joints are staggered min 12 in. In System 25, butt joints are staggered min 12 in. In System 26, butt joints are staggered min 12 in. In System 27, butt joints are staggered min 12 in. In System 28, butt joints are staggered min 12 in. In System 29, butt joints are staggered min 12 in. In System 30, butt joints are staggered min 12 in. In System 31, butt joints are staggered min 12 in. In System 32, butt joints are staggered min 12 in. In System 33, butt joints are staggered min 12 in. In System 34, butt joints are staggered min 12 in. In System 35, butt joints are staggered min 12 in. In System 36, butt joints are staggered min 12 in. In System 37, butt joints are staggered min 12 in. In System 38, butt joints are staggered min 12 in. In System 39, butt joints are staggered min 12 in. In System 40, butt joints are staggered min 12 in. In System 41, butt joints are staggered min 12 in. In System 42, butt joints are staggered min 12 in. In System 43, butt joints are staggered min 12 in. In System 44, butt joints are staggered min 12 in. In System 45, butt joints are staggered min 12 in. In System 46, butt joints are staggered min 12 in. In System 47, butt joints are staggered min 12 in. In System 48, butt joints are staggered min 12 in. In System 49, butt joints are staggered min 12 in. In System 50, butt joints are staggered min 12 in. In System 51, butt joints are staggered min 12 in. In System 52, butt joints are staggered min 12 in. In System 53, butt joints are staggered min 12 in. In System 54, butt joints are staggered min 12 in. In System 55, butt joints are staggered min 12 in. In System 56, butt joints are staggered min 12 in. In System 57, butt joints are staggered min 12 in. In System 58, butt joints are staggered min 12 in. In System 59, butt joints are staggered min 12 in. In System 60, butt joints are staggered min 12 in. In System 61, butt joints are staggered min 12 in. In System 62, butt joints are staggered min 12 in. In System 63, butt joints are staggered min 12 in. In System 64, butt joints are staggered min 12 in. In System 65, butt joints are staggered min 12 in. In System 66, butt joints are staggered min 12 in. In System 67, butt joints are staggered min 12 in. In System 68, butt joints are staggered min 12 in. In System 69, butt joints are staggered min 12 in. In System 70, butt joints are staggered min 12 in. In System 71, butt joints are staggered min 12 in. In System 72, butt joints are staggered min 12 in. In System 73, butt joints are staggered min 12 in. In System 74, butt joints are staggered min 12 in. In System 75, butt joints are staggered min 12 in. In System 76, butt joints are staggered min 12 in. In System 77, butt joints are staggered min 12 in. In System 78, butt joints are staggered min 12 in. In System 79, butt joints are staggered min 12 in. In System 80, butt joints are staggered min 12 in. In System 81, butt joints are staggered min 12 in. In System 82, butt joints are staggered min 12 in. In System 83, butt joints are staggered min 12 in. In System 84, butt joints are staggered min 12 in. In System 85, butt joints are staggered min 12 in. In System 86, butt joints are staggered min 12 in. In System 87, butt joints are staggered min 12 in. In System 88, butt joints are staggered min 12 in. In System 89, butt joints are staggered min 12 in. In System 90, butt joints are staggered min 12 in. In System 91, butt joints are staggered min 12 in. In System 92, butt joints are staggered min 12 in. In System 93, butt joints are staggered min 12 in. In System 94, butt joints are staggered min 12 in. In System 95, butt joints are staggered min 12 in. In System 96, butt joints are staggered min 12 in. In System 97, butt joints are staggered min 12 in. In System 98, butt joints are staggered min 12 in. In System 99, butt joints are staggered min 12 in. In System 100, butt joints are staggered min 12 in. In System 101, butt joints are staggered min 12 in. In System 102, butt joints are staggered min 12 in. In System 103, butt joints are staggered min 12 in. In System 104, butt joints are staggered min 12 in. In System 105, butt joints are staggered min 12 in. In System 106, butt joints are staggered min 12 in. In System 107, butt joints are staggered min 12 in. In System 108, butt joints are staggered min 12 in. In System 109, butt joints are staggered min 12 in. In System 110, butt joints are staggered min 12 in. In System 111, butt joints are staggered min 12 in. In System 112, butt joints are staggered min 12 in. In System 113, butt joints are staggered min 12 in. In System 114, butt joints are staggered min 12 in. In System 115, butt joints are staggered min 12 in. In System 116, butt joints are staggered min 12 in. In System 117, butt joints are staggered min 12 in. In System 118, butt joints are staggered min 12 in. In System 119, butt joints are staggered min 12 in. In System 120, butt joints are staggered min 12 in. In System 121, butt joints are staggered min 12 in. In System 122, butt joints are staggered min 12 in. In System 123, butt joints are staggered min 12 in. In System 124, butt joints are staggered min 12 in. In System 125, butt joints are staggered min 12 in. In System 126, butt joints are staggered min 12 in. In System 127, butt joints are staggered min 12 in. 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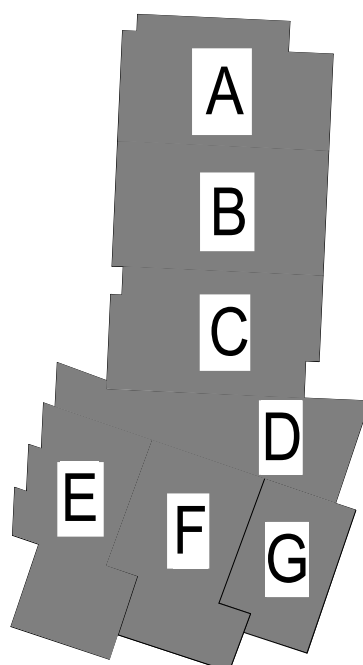


FIRST LEVEL ORIENTATION PLAN

SCALE: 1" = 30'-0"



KEY PLAN



LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING &
SITE
10/08/20
REVISIONS

13-20102-00

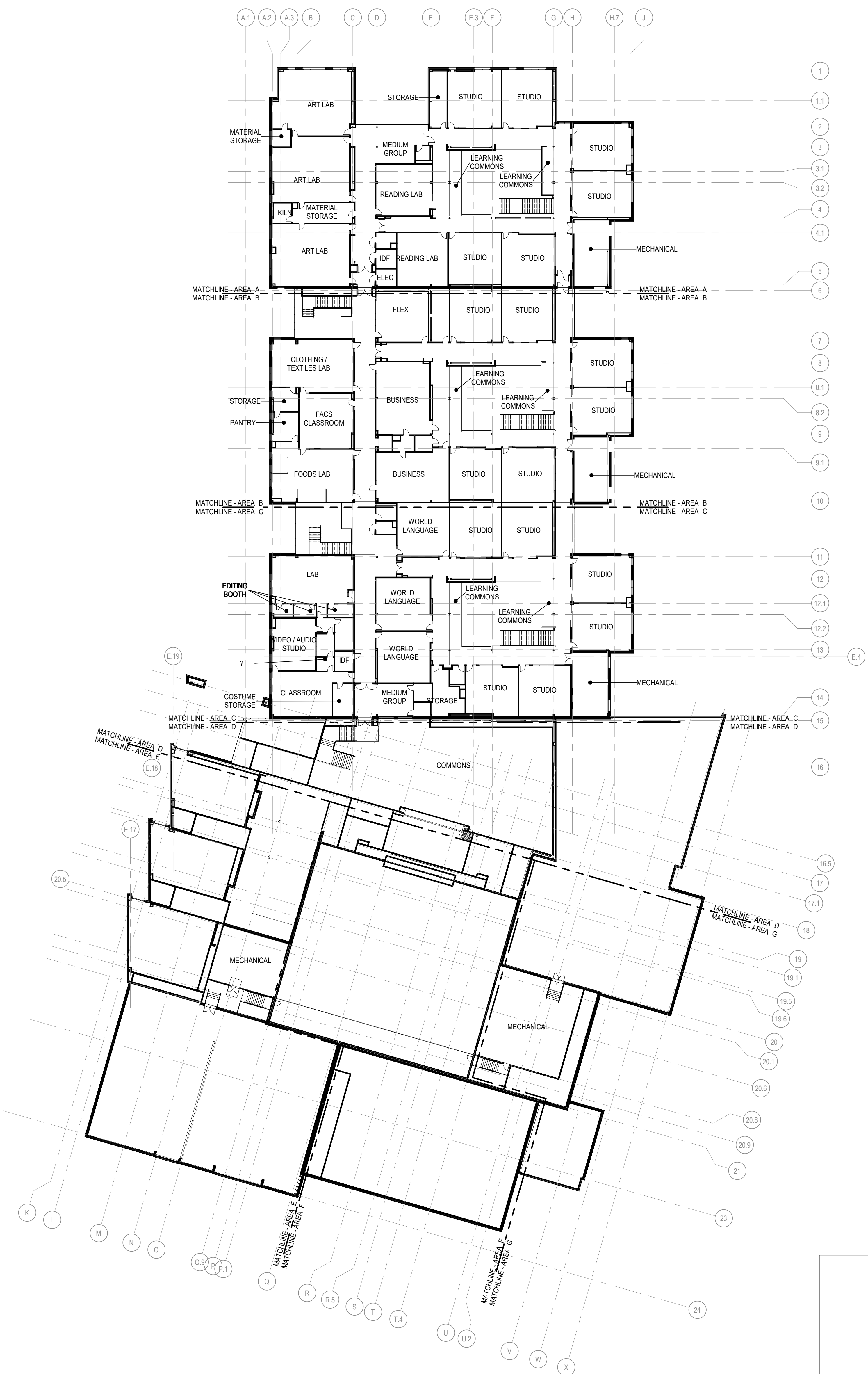
FIRST LEVEL
ORIENTATION
PLAN

OP1.1



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SECOND LEVEL ORIENTATION PLAN
SCALE: 1" = 30'-0"

KEY PLAN

