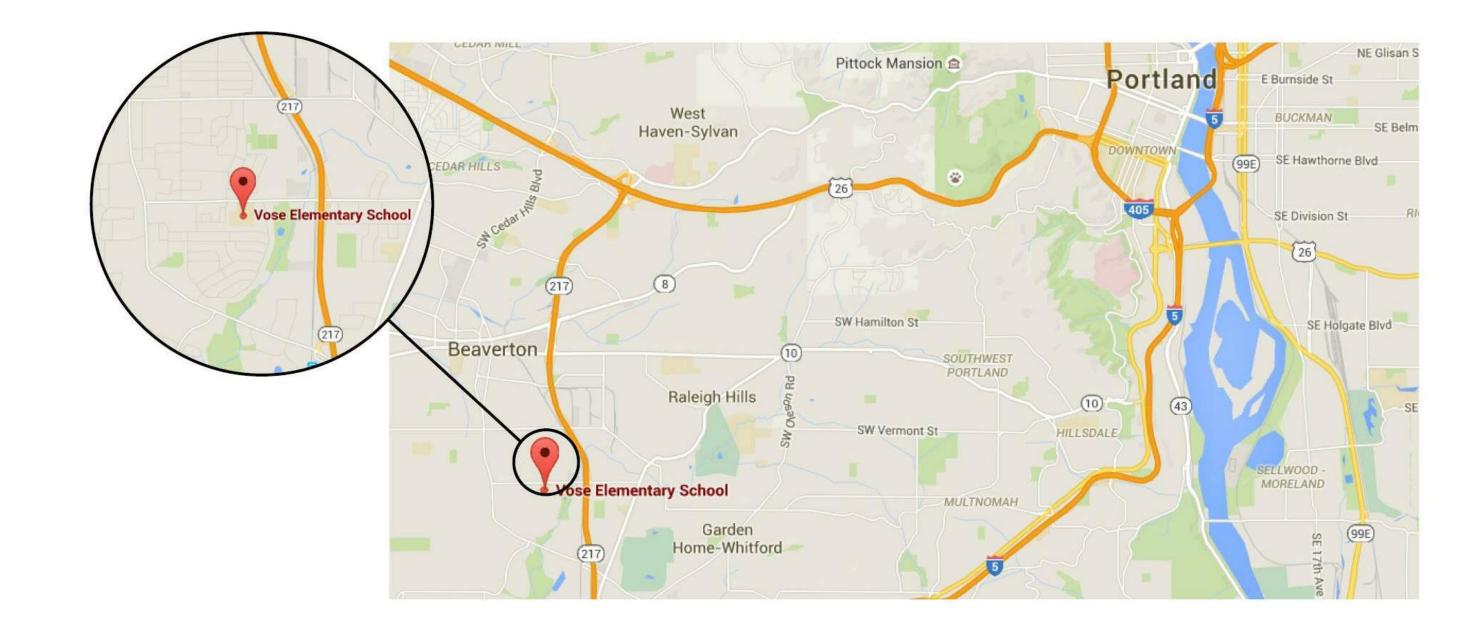
FEBRUARY 26, 2021

11350 SW DENNEY RD BEAVERTON, OR 97008



DEFERRED SUBMITTALS:

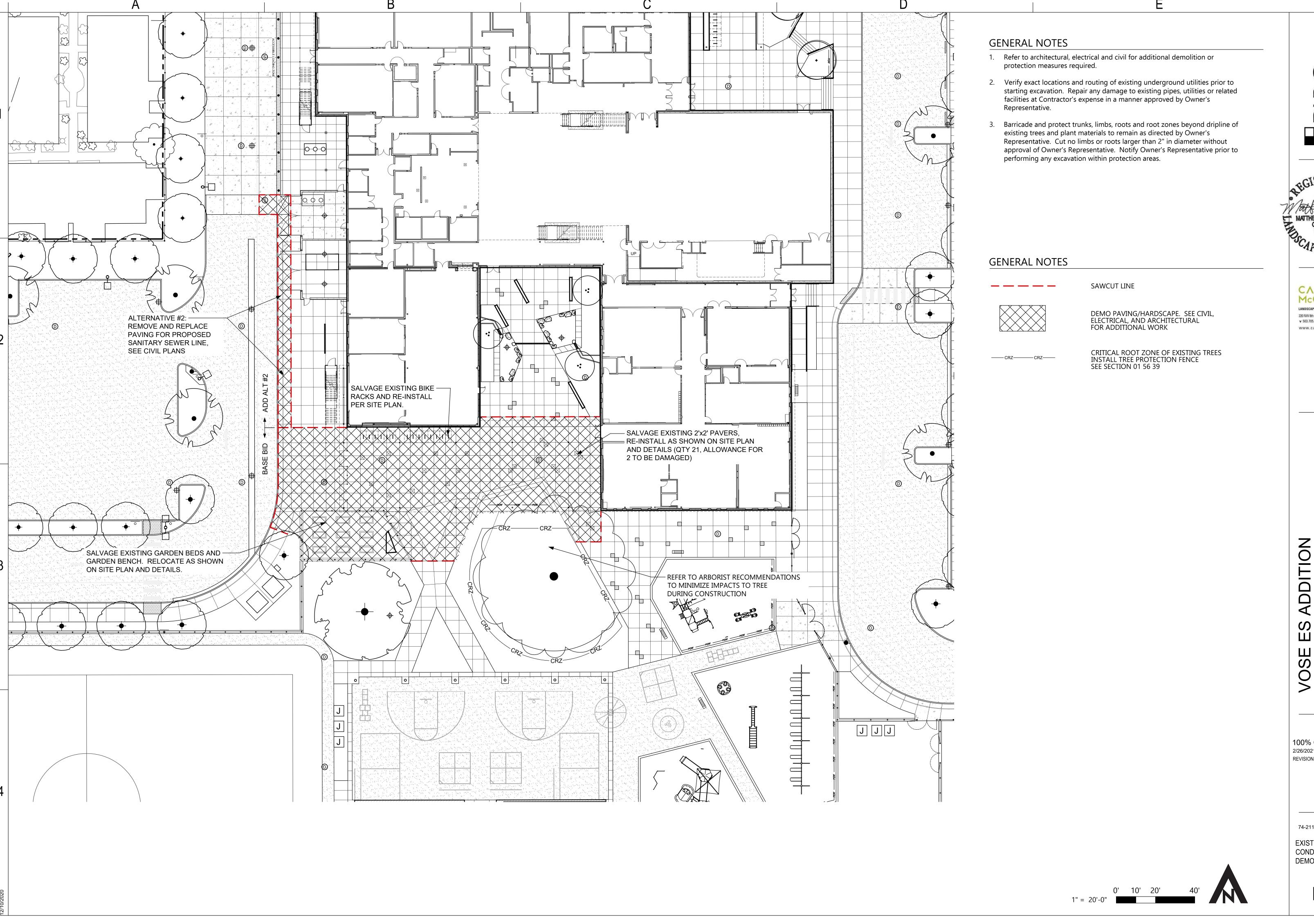
- ACOUSTICAL CEILING SUSPENSION SYSTEM
- FIRE ALARM SYSTEMS
- FIRE SPRINKLER
 SEISMIC BRACING FOR PERMANENTLY INSTALLED HVAC AND
- MECHANICAL EQUIPMENT

 SEISMIC BRACING FOR PERMANENTLY INSTALLED ELECTRICAL
- EQUIPMENT
- EQUIPMENT
- SEISMIC BRACING OF TELECOMMUNICAITONS RACKS COLD FORMED METAL FRAMING
- EMERGENCY RESPONDER RADIO SYSTEM TESTING AND/OR SYSTEM
- FIRESTOPPING INCLUDING RATED EXPANSION JOINTS
- SPECIAL INSPECTION REQUIRED FOR FIRE-RESISTANT
- PENETRATIONS AND JOINT SYSTEMS

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G0.1



Group OLR Group

MATTHEWS. KOEHLER SOREGON
11/21/03
SCAPE ARCHITE

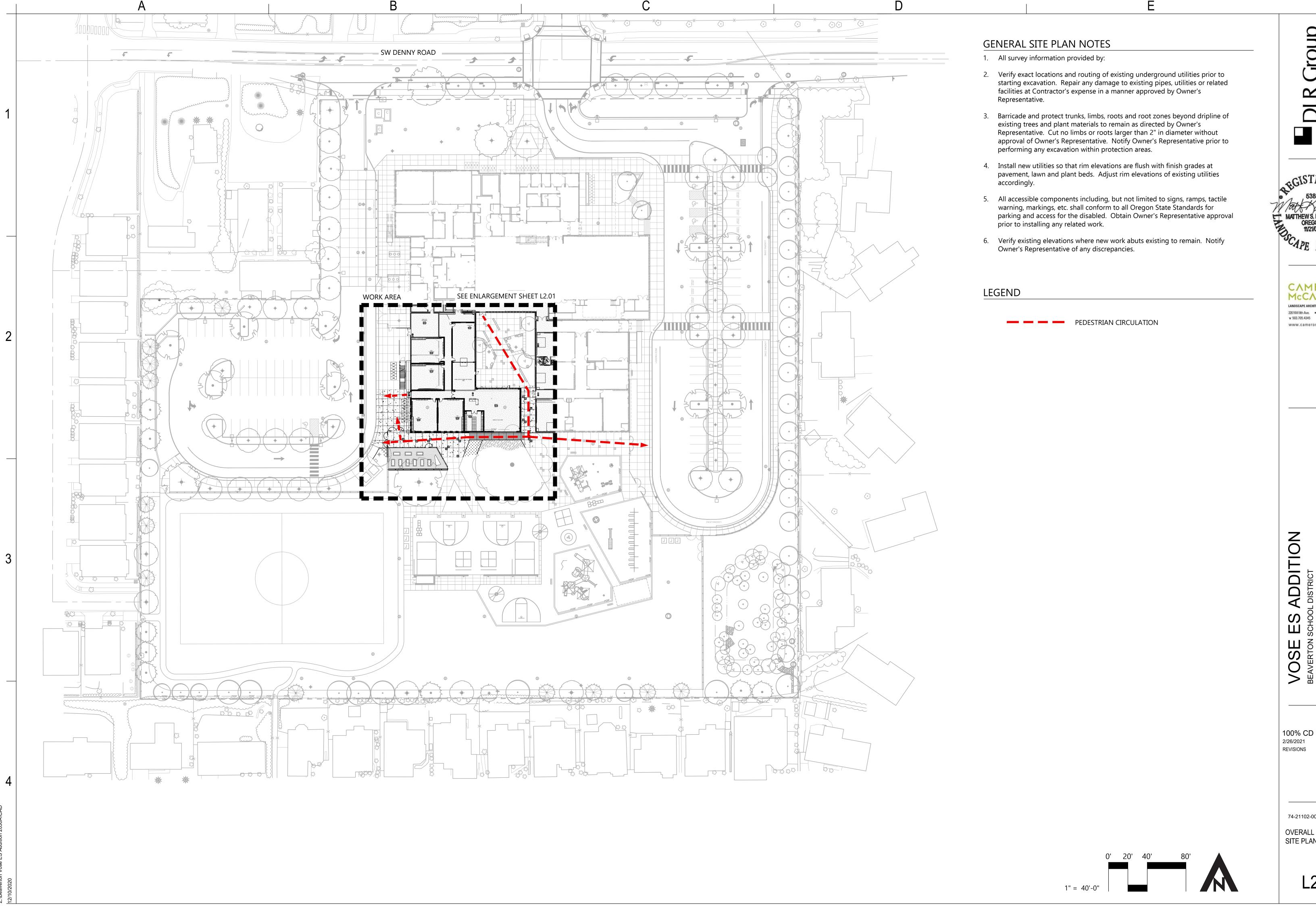
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CONDITIONS & **DEMOLITION PLAN**



Group DLR Group

AEGISTERED. 538

MATTHEW S. KOEHLER SOREGON
11/21/03

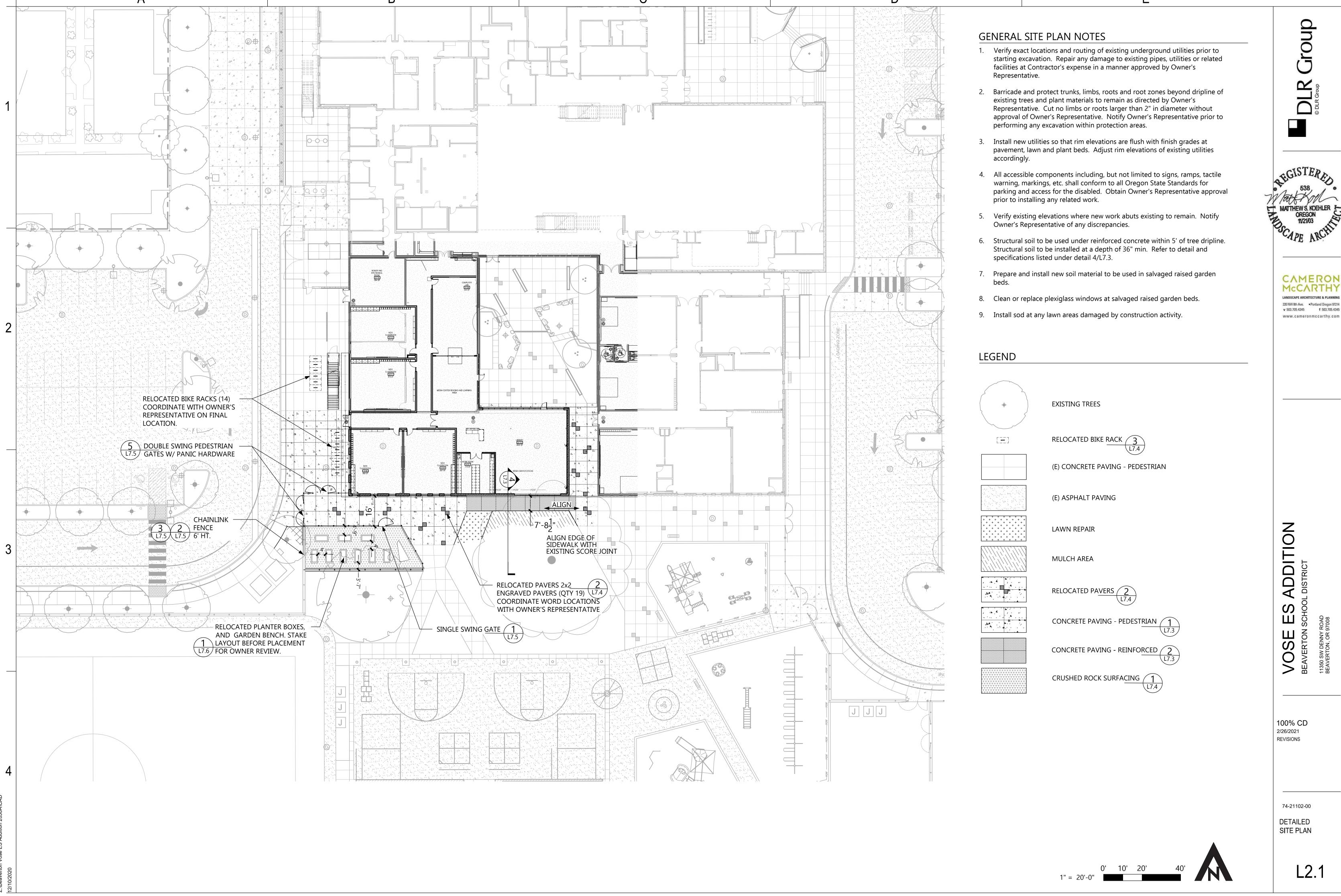
CAPE ARCHITE

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SITE PLAN

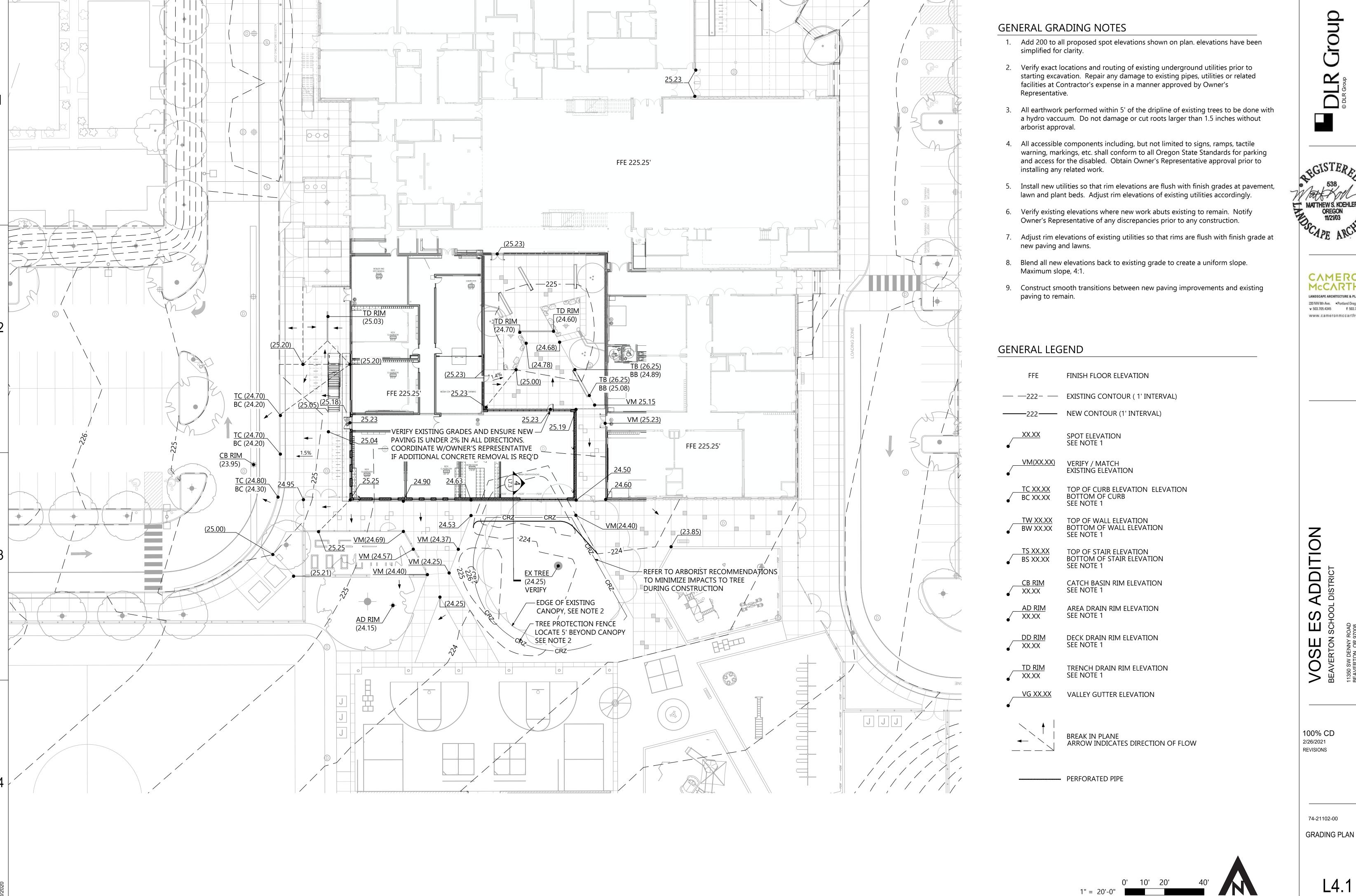
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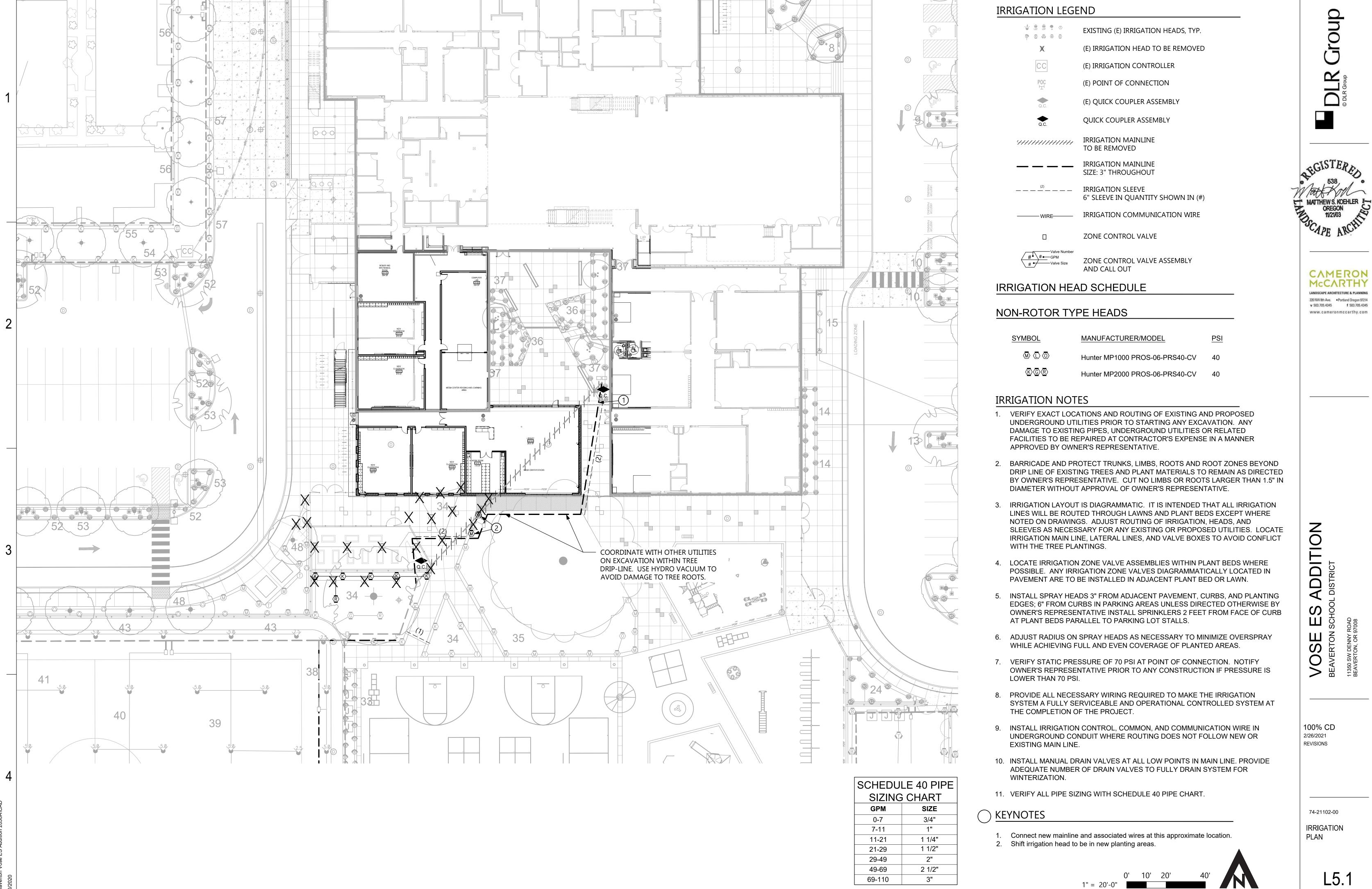


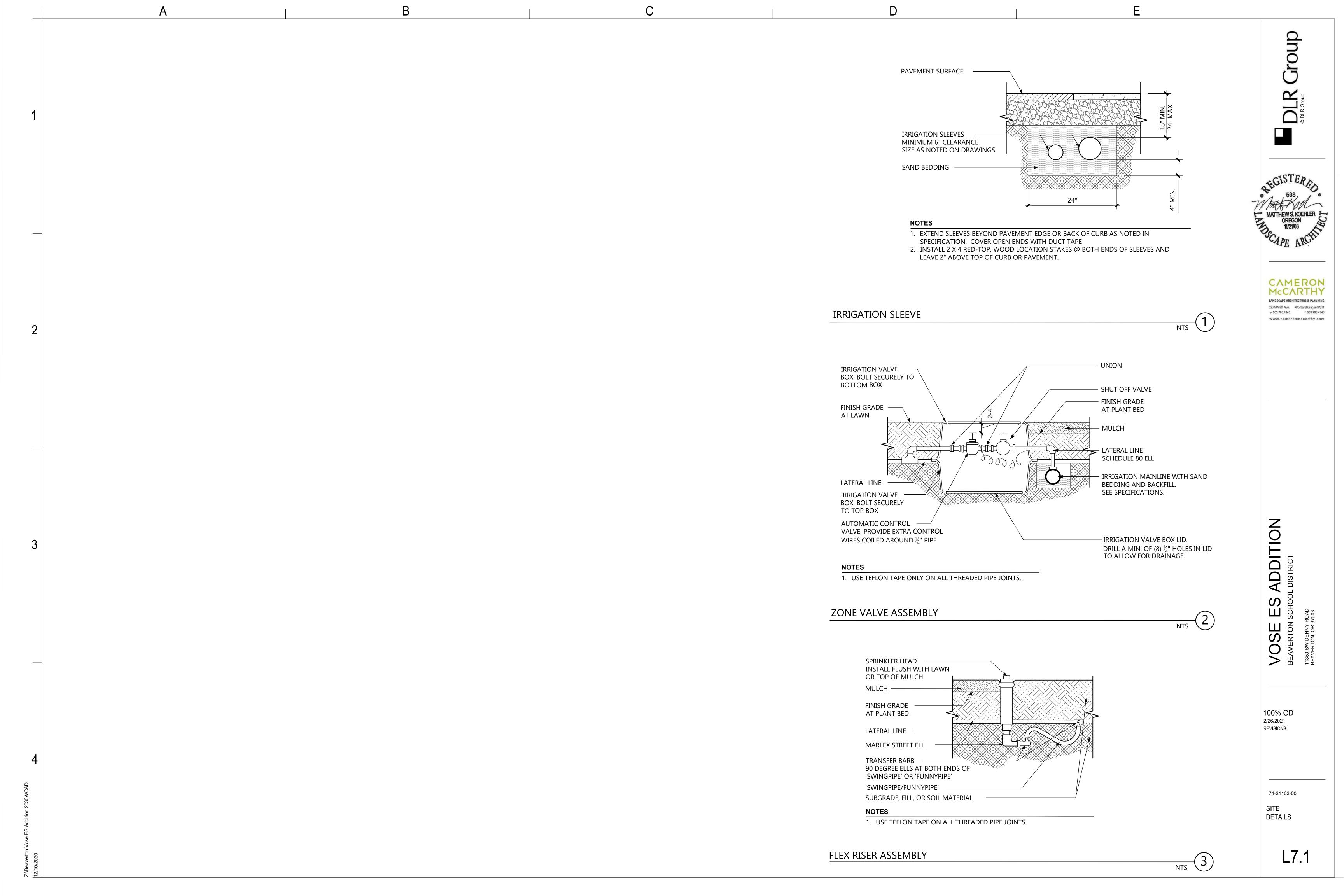
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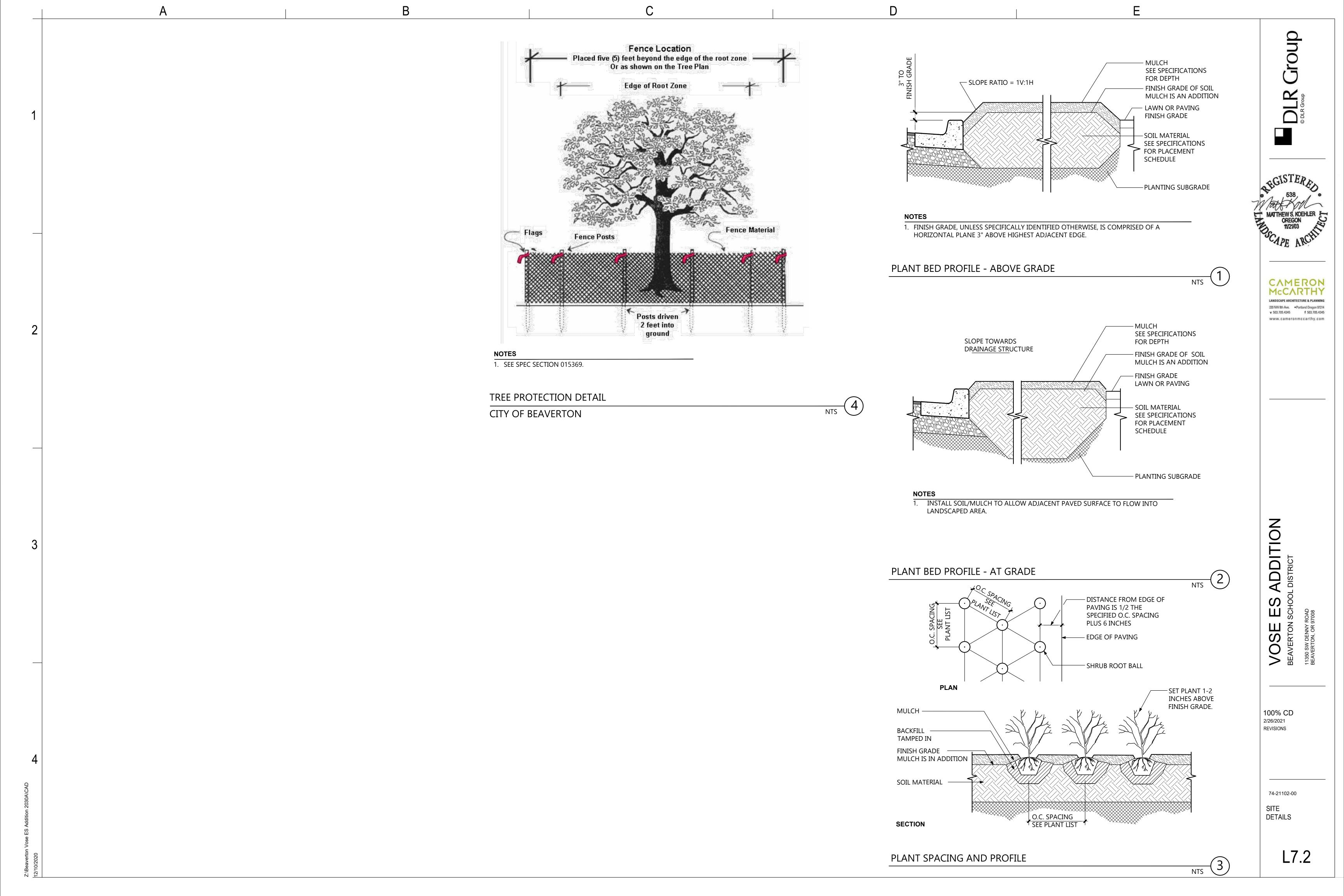


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L4.1







- CONSTRUCT 1/4 INCH RADIUS AT EDGE OF PAVING. SEE GEOTECHNICAL REPORT BY GRI, DATED 10/12/2017, FOR SITE
- PREPARATION AND PAVEMENT RECOMMENDATIONS

CONCRETE PAVING - STANDARD



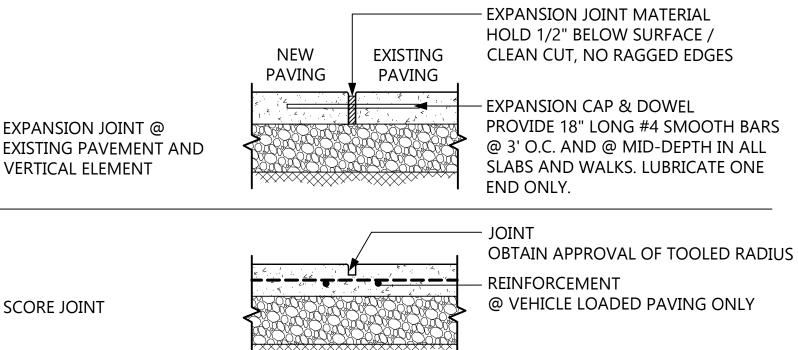
LANDSCAPE ARCHITECTURE & PLANNING 220 NW 8th Ave. Portland Oregon 97214 v 503.705.4345 f 503.705.4345

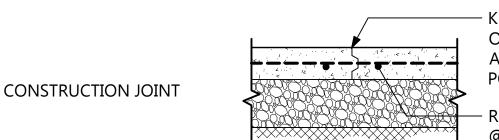
CONCRETE PAVING REBAR BOTH WAYS SIZE: #4, 24" O.C. AGGREGATE BASE ROCK - GEOTEXTILE FABRIC SUBGRADE COMPACTED

NOTES

- CONSTRUCT 1/4 INCH RADIUS AT EDGE OF PAVING.
- 2. SEE GEOTECHNICAL REPORT BY GRI, DATED 10/12/2017, FOR SITE PREPARATION AND PAVEMENT RECOMMENDATIONS.

CONCRETE PAVING - REINFORCED





KEYJOINT W / BOND BREAKER OBTAIN OWNER'S REPRESENTATIVE APPROVAL OF INSTALLATION PRIOR TO **POURING CONCRETE**

REINFORCEMENT @ VEHICLE LOADED PAVING ONLY

- LOCATE JOINTS WHERE SHOWN ON DRAWINGS AND AS SPECIFIED.
- PROVIDE SAMPLE OF CONCRETE JOINT FINISHING TOOLS FOR APPROVAL OF JOINT RADIUS AND DEPTH.
- EXPANSION JOINS ADJACENT TO VERTICAL SURFACES (WHERE ABUTTING BUILDING WALLS AND RETAINING ELEMENTS) ARE TO HAVE FULLY FILLED SANDED JOINTS.

NOTES

CONCRETE JOINTS

Group

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DETAILS

CONCRETE WALKWAY OVER STRUCTURAL SOIL

PROPOSED BUILDING

GEOTEXTILE FABRIC

REINFORCED CONCRETE

STRUCTURAL SOIL

— 8" SEWER LINE

IMPORTED TOPSOIL/MULCH

A. MIX COVERED SOIL IN BATCHES OF AN APPROPRIATE SIZE FOR THE EQUIPMENT BEING USED. THE END

H. SLOWLY ADD WATER TO THE MIXTURE AND CONTINUE TO MIX. THE FINAL AMOUNT OF WATER WILL

VARY WITH MOISTURE CONTENT OF THE CRUSHED ROCK AND TOPSOIL. ADD WATER IN INCREMENTAL

STOP ADDING WATER AND MIXING WHEN THERE IS A MINUTE AMOUNT OF FREE TOPSOIL REMAINING. THE TOPSOIL WILL COAT THE CRUSHED ROCK AND NOT FALL OUT OF THE MATERIAL. ALL OF THE

IF TOO MUCH WATER IS ADDED TO THE MIXTURE, WATER WILL DRAIN OUT OF THE MATERIAL AND THE

A. PROTECT SOILS AND MIXES FROM ABSORBING EXCESS WATER AND FROM EROSION AT ALL TIMES. DO NOT STORE MATERIALS UNPROTECTED FROM RAINFALL EVENTS. DO NOT ALLOW EXCESS WATER TO

ALLOW MATERIAL TO DRAIN OR AERATE TO OPTIMUM COMPACTION MOISTURE CONTENT.

C. CONFIRM THAT THE SUBGRADE IS AT THE PROPER ELEVATION AND COMPACTED AS REQUIRED.

WITH APPROVED FILL AND COMPACT TO THE REQUIRED SUB-GRADE COMPACTION.

B. ALL AREAS TO RECEIVE COVERED SOIL MIXTURE SHALL BE INSPECTED BY THE PROJECT LANDSCAPE

ENTER SITE PRIOR TO COMPACTION. IF WATER IS INTRODUCED INTO THE MATERIAL AFTER GRADING,

ARCHITECT AND/OR PROJECT ENGINEER BEFORE STARTING PLACEMENT OF MIXTURE. ALL DEFECTS SUCH

AS INCORRECT GRADING, COMPACTION AND INADEQUATE DRAINAGE, ETC., SHALL BE CORRECTED PRIOR

SUB-GRADE ELEVATIONS SHALL SLOPE PARALLEL TO THE FINISHED GRADE. CLEAR THE EXCAVATION OF

ALL CONSTRUCTION DEBRIS, TRASH, RUBBLE AND FOREIGN MATERIAL. FILL ANY OVER EXCAVATION

D. INSTALL COVERED SOIL IN 6-INCH LIFTS AND SPREAD UNIFORMLY OVER THE AREA. COMPACT EACH LIFT

DURING DELAY. TAKE PARTICULAR CARE NOT TO DAMAGE UTILITIES WHEN INSTALLING COVERED SOIL.

COVERED SOIL THAT WILL BE THE BEDDING FOR UTILITY LINES SHALL BE COMPACTED TO CONFORM TO THE REQUIRED GRADE OF THE UTILITY LINE. DO NOT COMPACT THE IMMEDIATE VICINITY ABOVE A

PROTECT THE COVERED SOIL MATERIAL FROM CONTAMINATION BY WATER BY COVERING WITH PLASTIC

TO THE REQUIRED PERCENT OF MAXIMUM DENSITY. DELAY PLACEMENT 24 HOURS IF MOISTURE

CONTENT EXCEEDS MAXIMUM ALLOWABLE. PROTECT COVERED SOIL WITH PLASTIC OR PLYWOOD

E. BRING COVERED SOILS TO FINISHED GRADES AS SHOWN IN THE APPROVED DRAWINGS. IMMEDIATELY

UTILITY LINE UNTIL A FILL DEPTH OF AT LEAST 12-INCHES ABOVE THE UTILITY LINE IS REACHED.

TOPSOIL WILL WASH OFF OF THE CRUSHED ROCK. IF THIS OCCURS THE BATCH OF MATERIAL SHALL BE

CRUSHED ROCK SHALL BE UNIFORMLY COATED WITH TOPSOIL. THERE SHALL BE NO CLUMPS OF TOPSOIL

RESULTS IS TO BE A MATERIAL THAT IS UNIFORMLY BLENDED TOGETHER. DO NO BATCH IN QUANTITIES

THAT WILL NOT ALLOW THE EQUIPMENT TO COMPLETELY MIX THE MATERIAL. DETERMINE BATCH SIZE

EXISTING SOIL

PART 3. STRUCTURAL SOIL MIXING PROCEDURES

B. START WITH HALF OF THE CRUSHED ROCK MATERIAL.

OR UNCOVERED CRUSHED ROCK IN THE MIXTURE.

TO BEGINNING PLACEMENT OF COVERED SOIL.

ADD THE OTHER HALF OF THE CRUSHED ROCK MATERIAL.

C. ADD ALL OF THE TOPSOIL MATERIAL.

G. MIX THE MATERIAL TOGETHER.

ADD HALF OF THE ESTIMATED WATER.

PART 4. PLACEMENT OF COVERED SOIL

OR PLYWOOD

D. ADD THE SOIL BINDER.

AND QUANTITIES OF EACH MATERIAL NEEDED FOR THE BATCH.

AMOUNTS AND MIX THE MATERIAL BETWEEN THE ADDITIONS OF WATER.

DISCARDED AND SHALL NOT BE INCORPORATED INTO THE COMPLETED WORK.

STRUCTURAL SOIL SPECIFICATIONS:

PART 1. STRUCTURAL SOIL MATERIALS

PASSING 0.75 INCH;

MATERIAL

TOPSOIL

WATER

DURING MIXING.

SOIL BINDER

CRUSHED ROCK

LOAM/ORGANIC TOPSOIL:

SOIL BINDER SUCH AS STABILIZER; AND

PART 2. PROPORTIONS OF STRUCUTRAL SOIL MATERIALS

AND ADMIXTURES;

WATER.

A. COVERED SOIL SHALL CONSIST OF THE FOLLOWING MIXTURE OF GRAVEL, SOIL

A. THE PROPORTIONS OF STRUCUTRAL SOIL MATERIALS SHALL BE AS FOLLOWS:

AMOUNT FOR 1 CY

OF COVERED SOIL

23.2 CUBIC FEET

5.9 CUBIC FEET

13.7 OZ

1.6 GALLON

B. THE TARGET MOISTURE CONTENT IS 20% BY WEIGHT OF THE TOPSOIL WEIGHT.

THE ABOVE WATER CONTENTS ASSUME THE TOP IS DRY. THE AMOUNT OF WATER

THE RAW MATERIALS. ACTUAL AMOUNTS OF WATER USED SHALL BE DETERMINED

THAT WILL NEED TO BE ADDED WILL BE DEPENDENT ON THE MOISTURE CONTENT OF

AMOUNT FOR 4.6 CY

OF COVERED SOIL

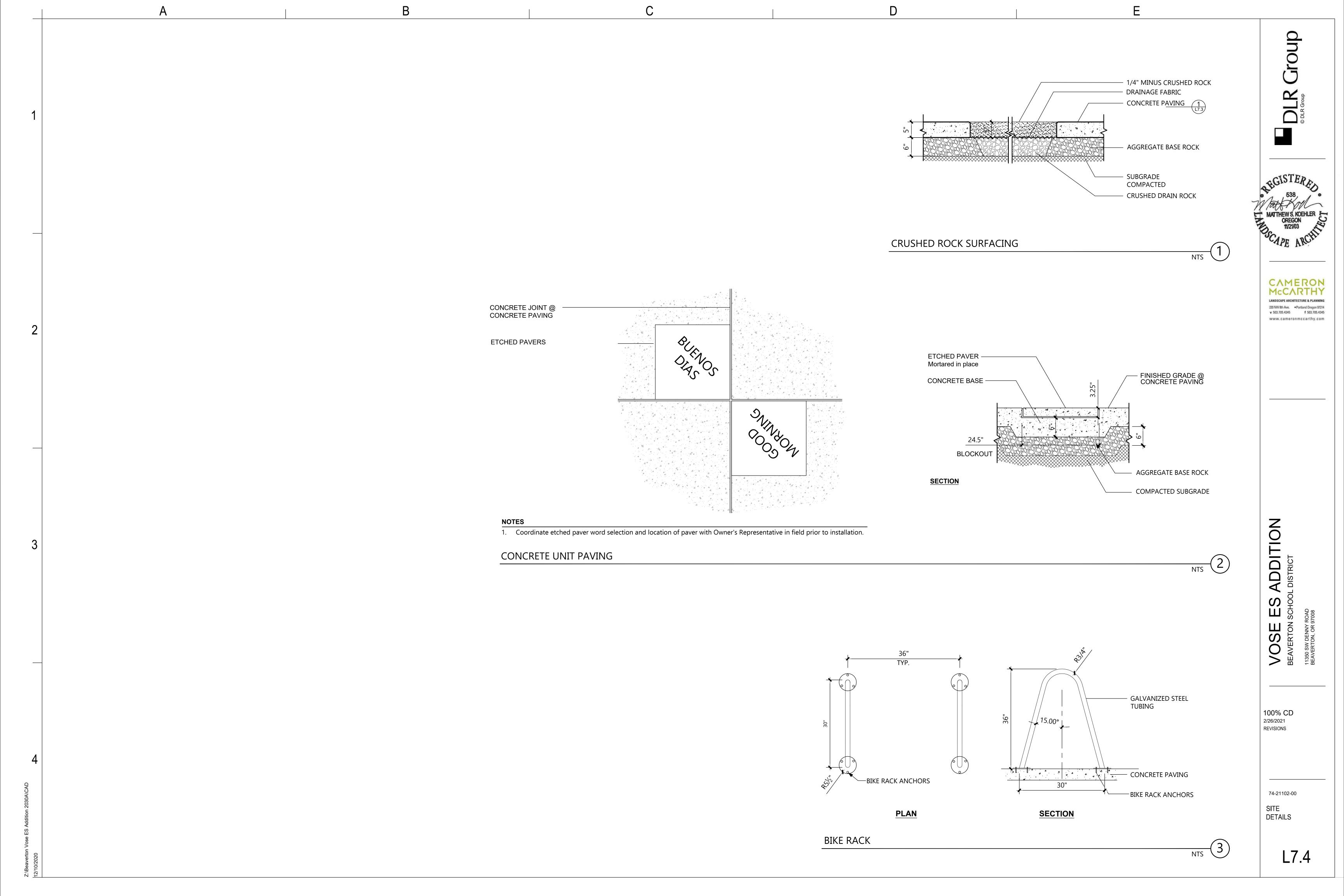
4 CUBIC YARDS

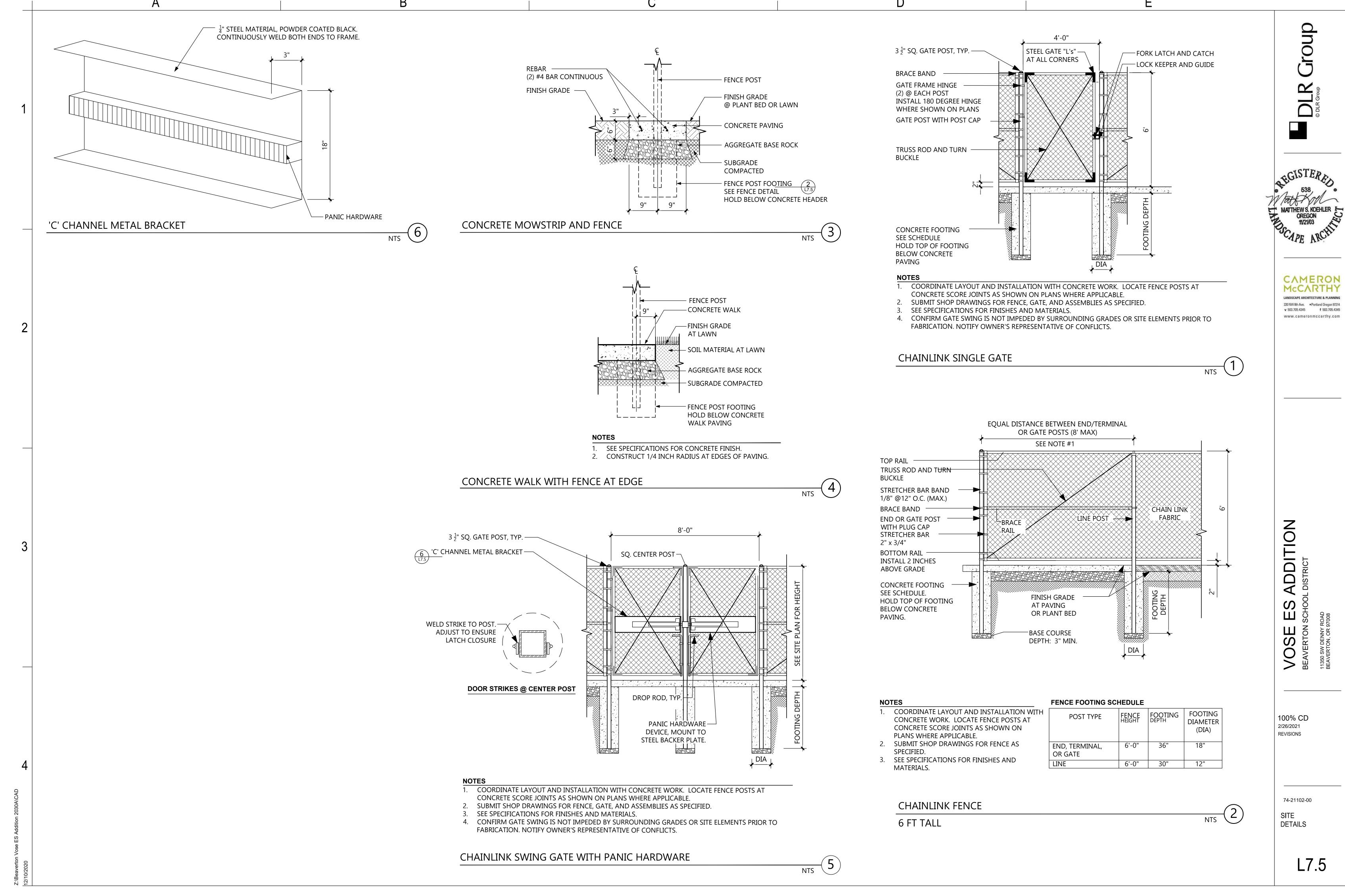
1 CUBIC YARD

46 GALLONS

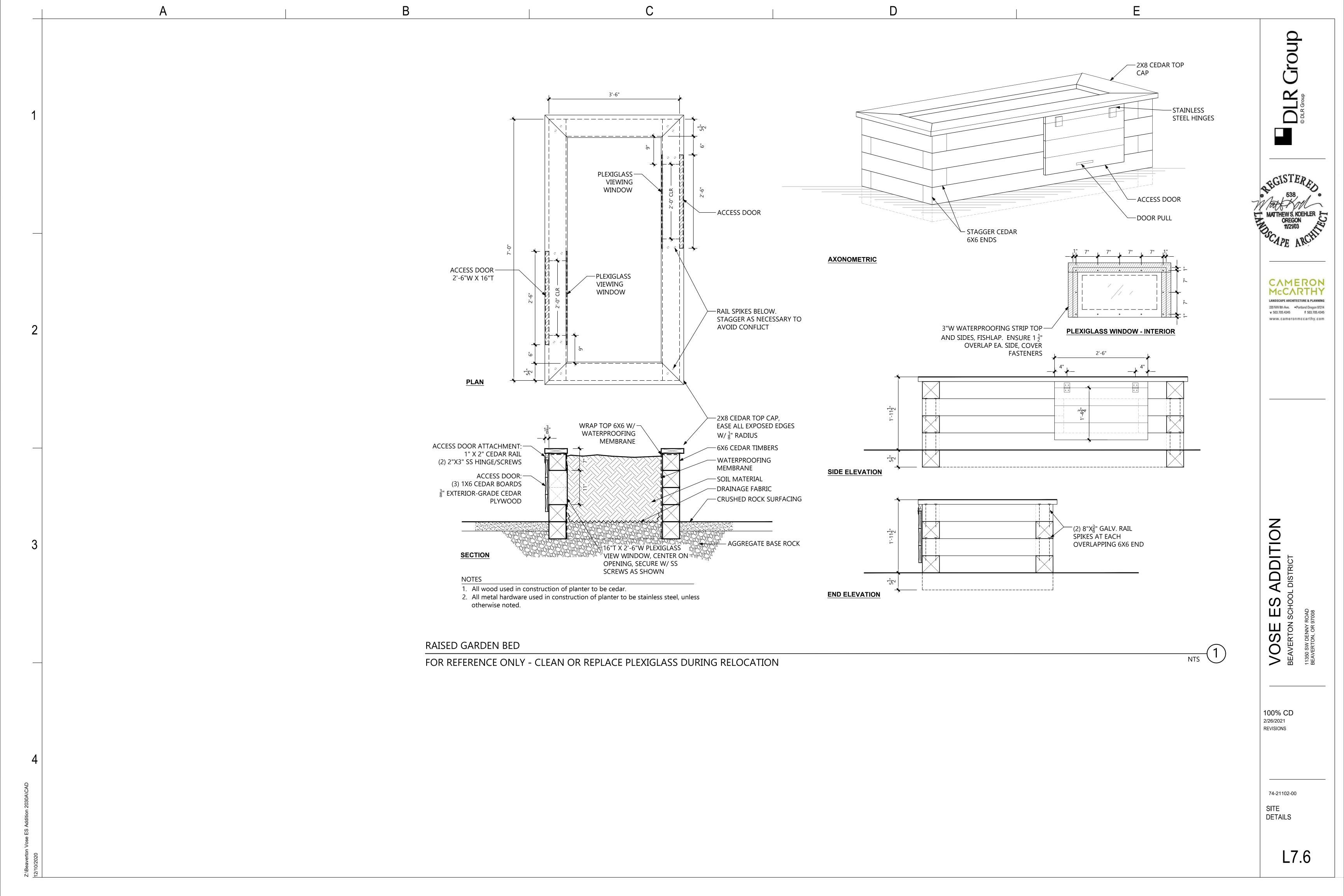
4 LBS

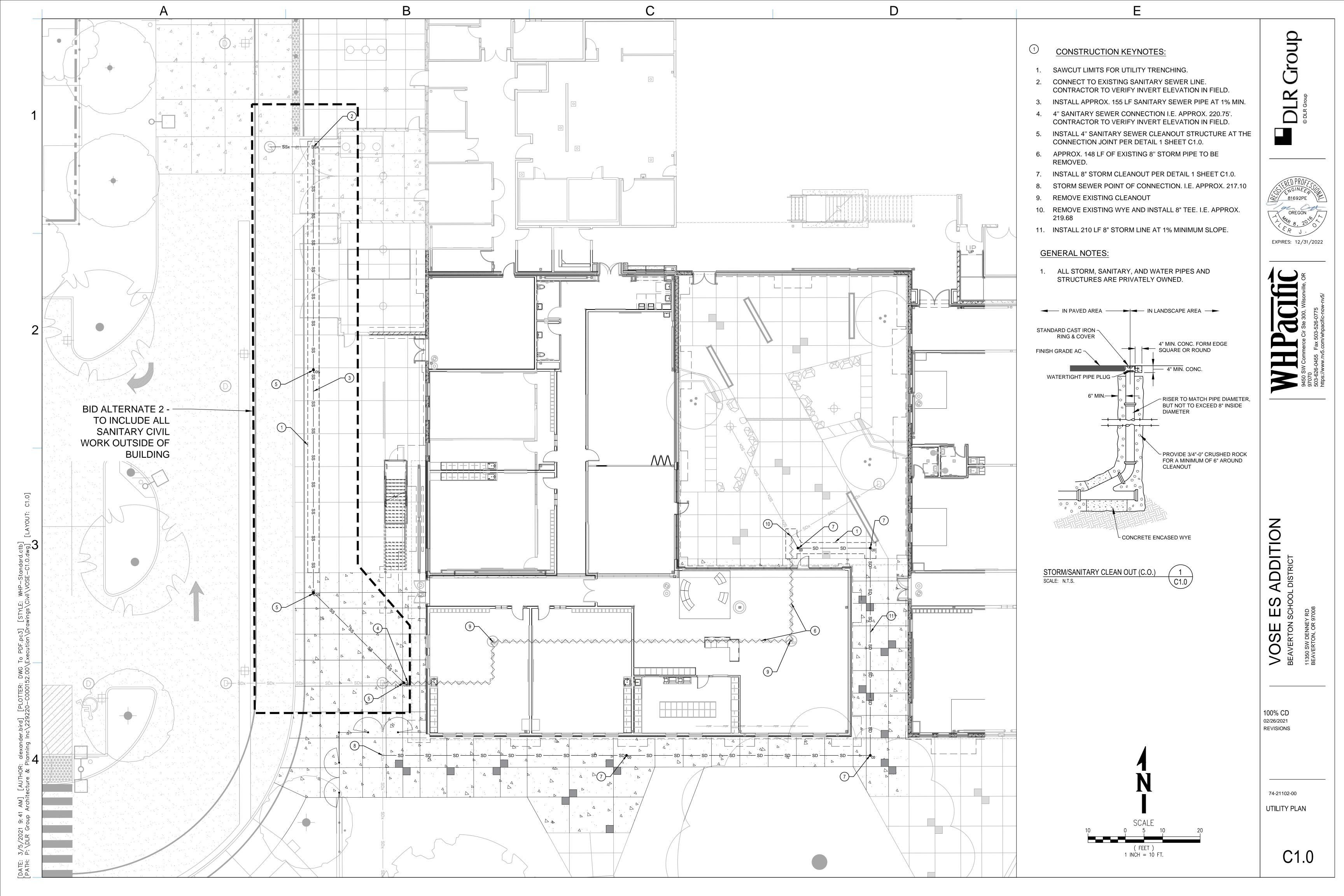
CRUSHED ROCK, GRADATION OF 100% PASSING 1.25 INCH, MAX. 30%

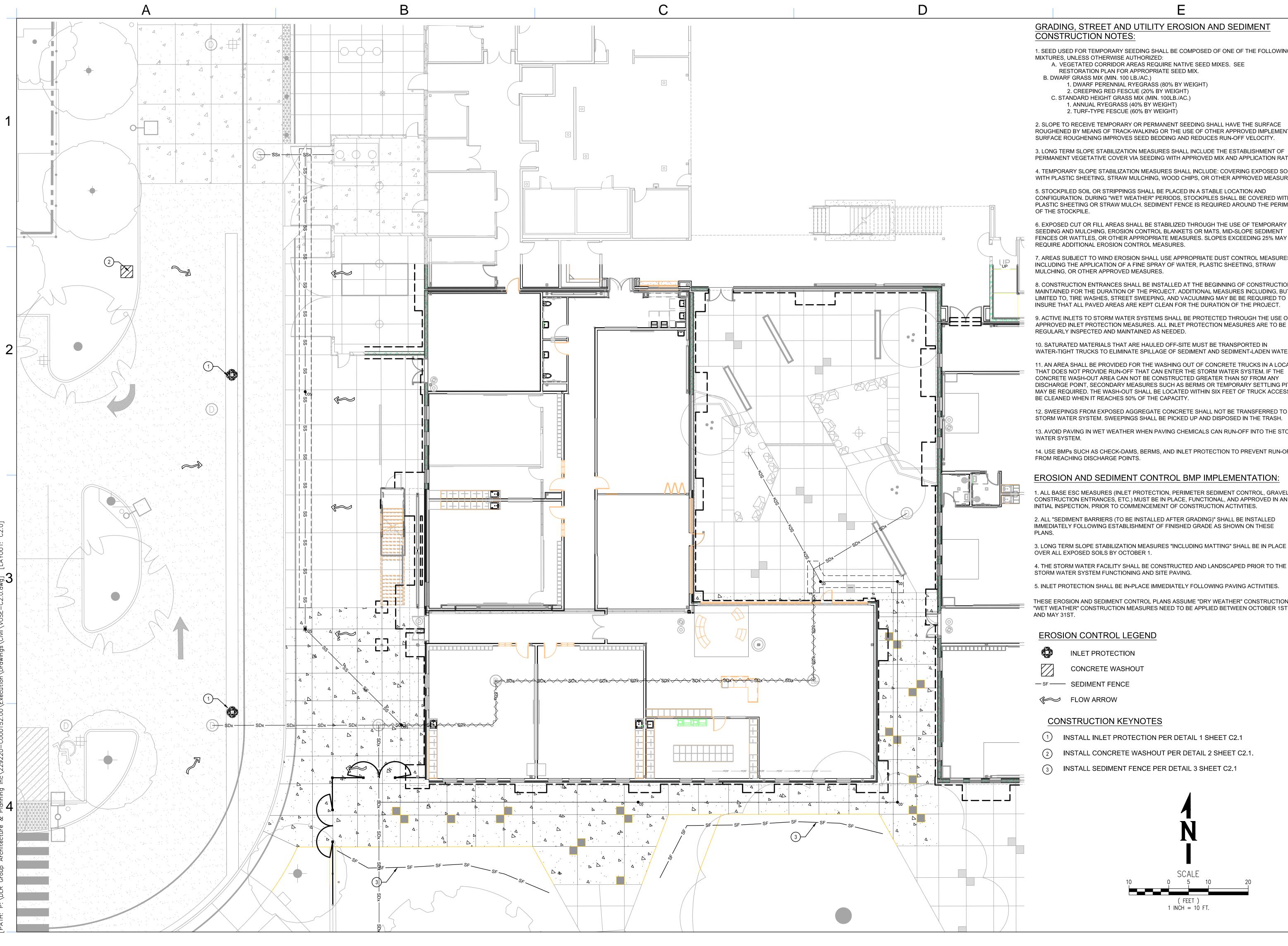












1. SEED USED FOR TEMPORARY SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING

A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.

1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT) 2. CREEPING RED FESCUE (20% BY WEIGHT) C. STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.) 1. ANNUAL RYEGRASS (40% BY WEIGHT)

2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.

3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.

4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.

5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER

6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY

7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW

8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.

10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.

11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.

12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.

13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM

14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE

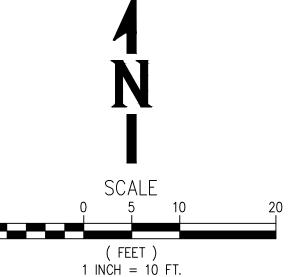
3. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE

STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.

5. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST

- INSTALL INLET PROTECTION PER DETAIL 1 SHEET C2.1
- INSTALL CONCRETE WASHOUT PER DETAIL 2 SHEET C2.1.
- INSTALL SEDIMENT FENCE PER DETAIL 3 SHEET C2.1

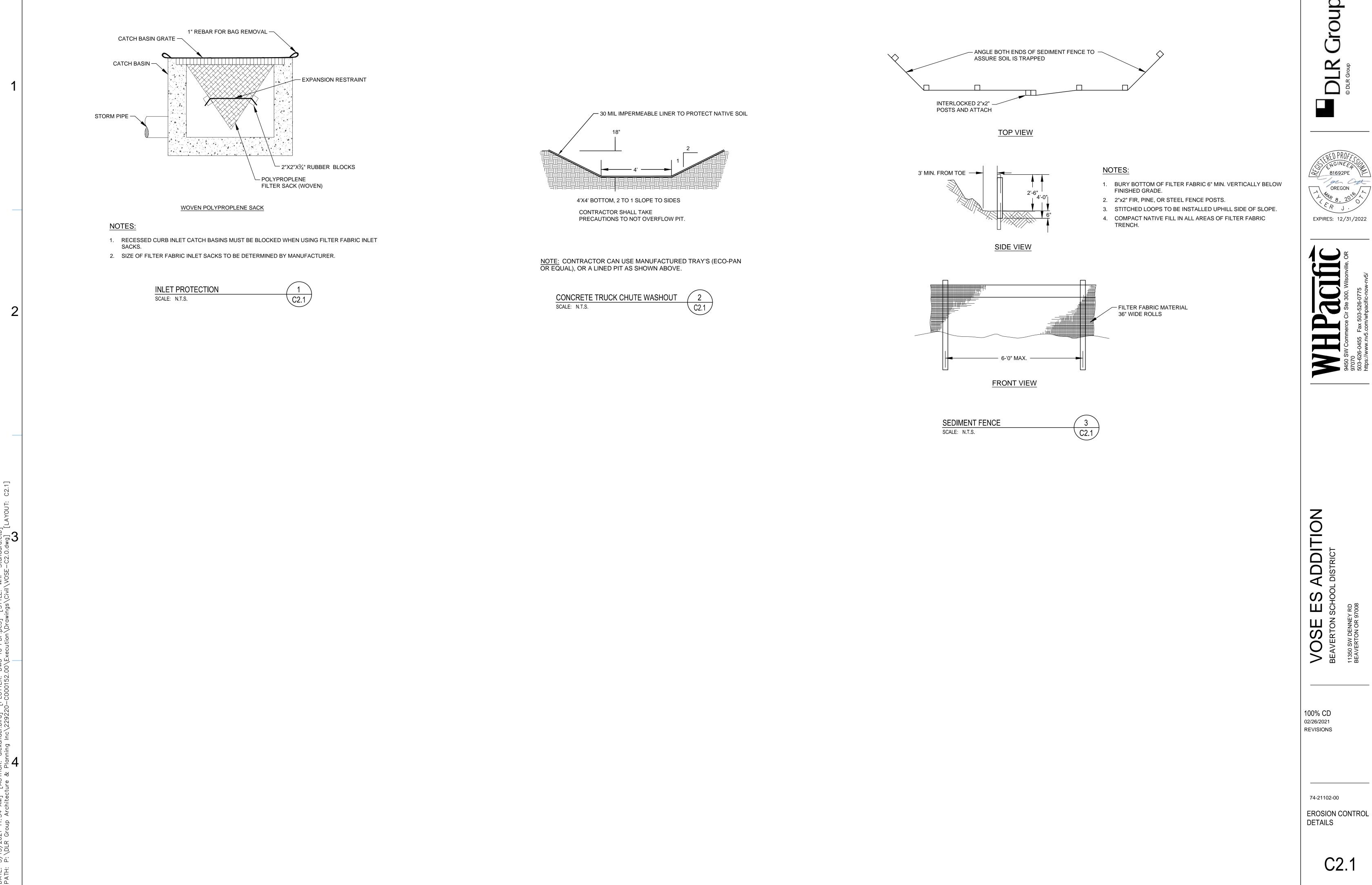




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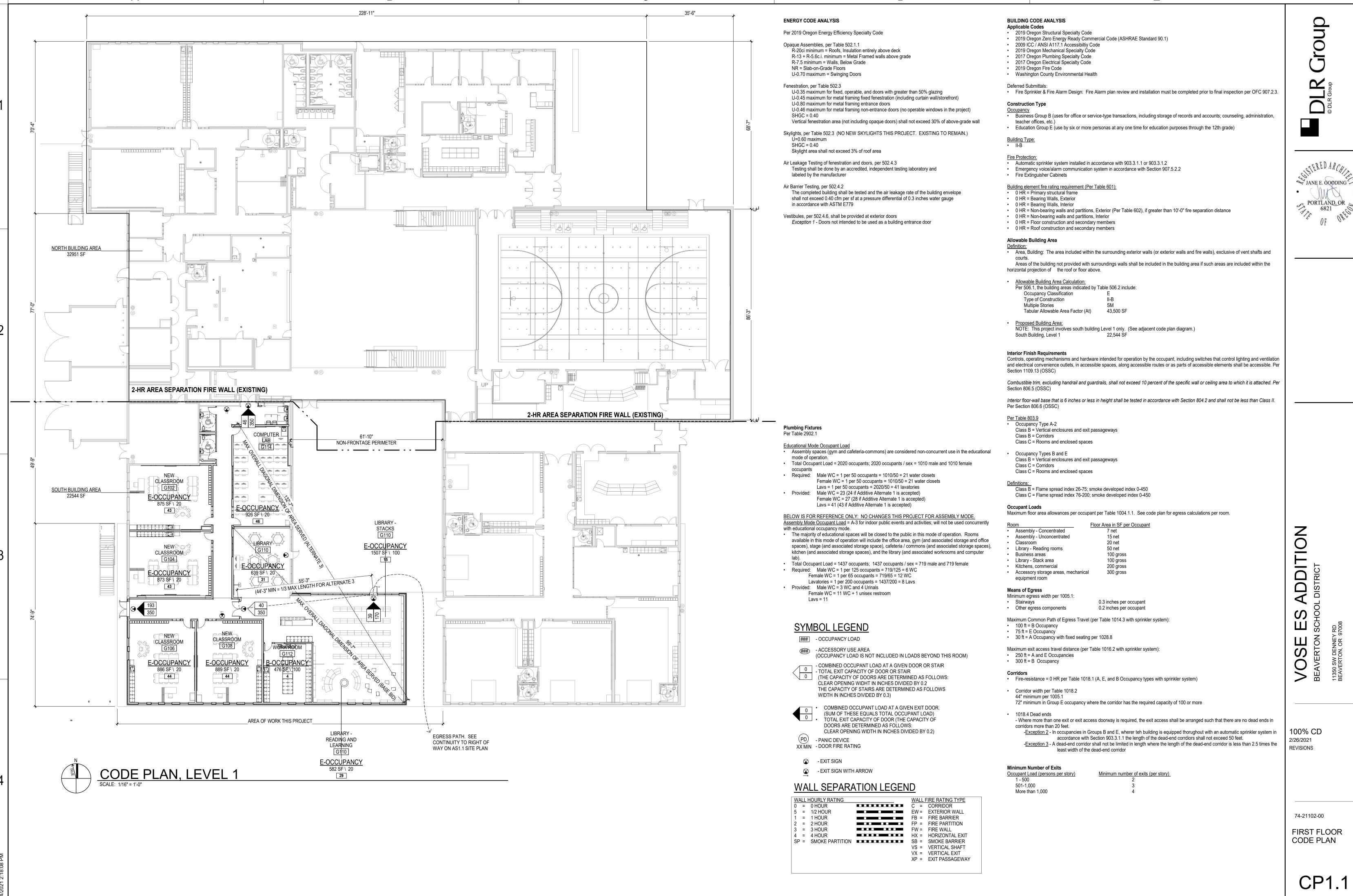
EROSION CONTROL PLAN



В

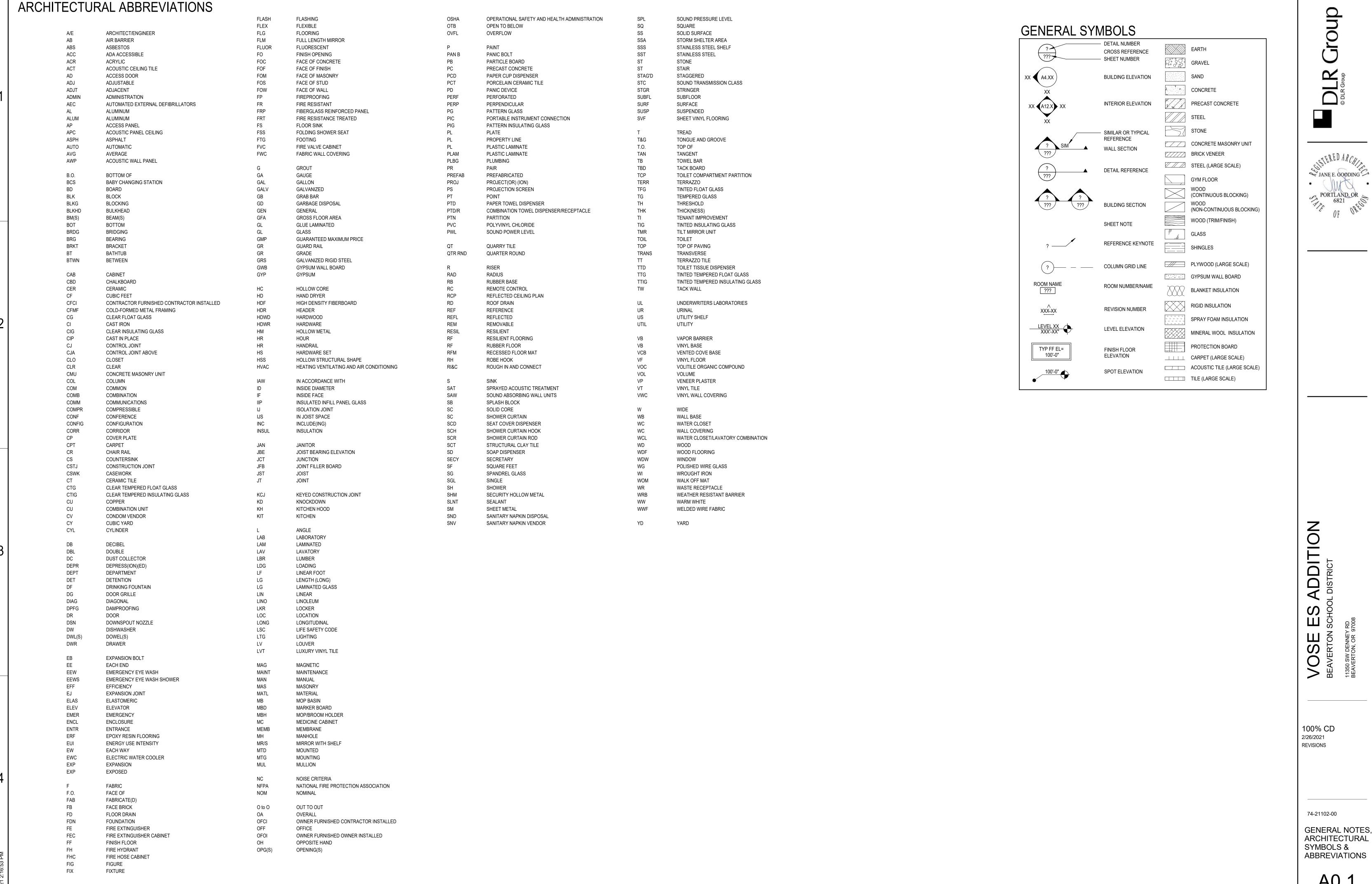






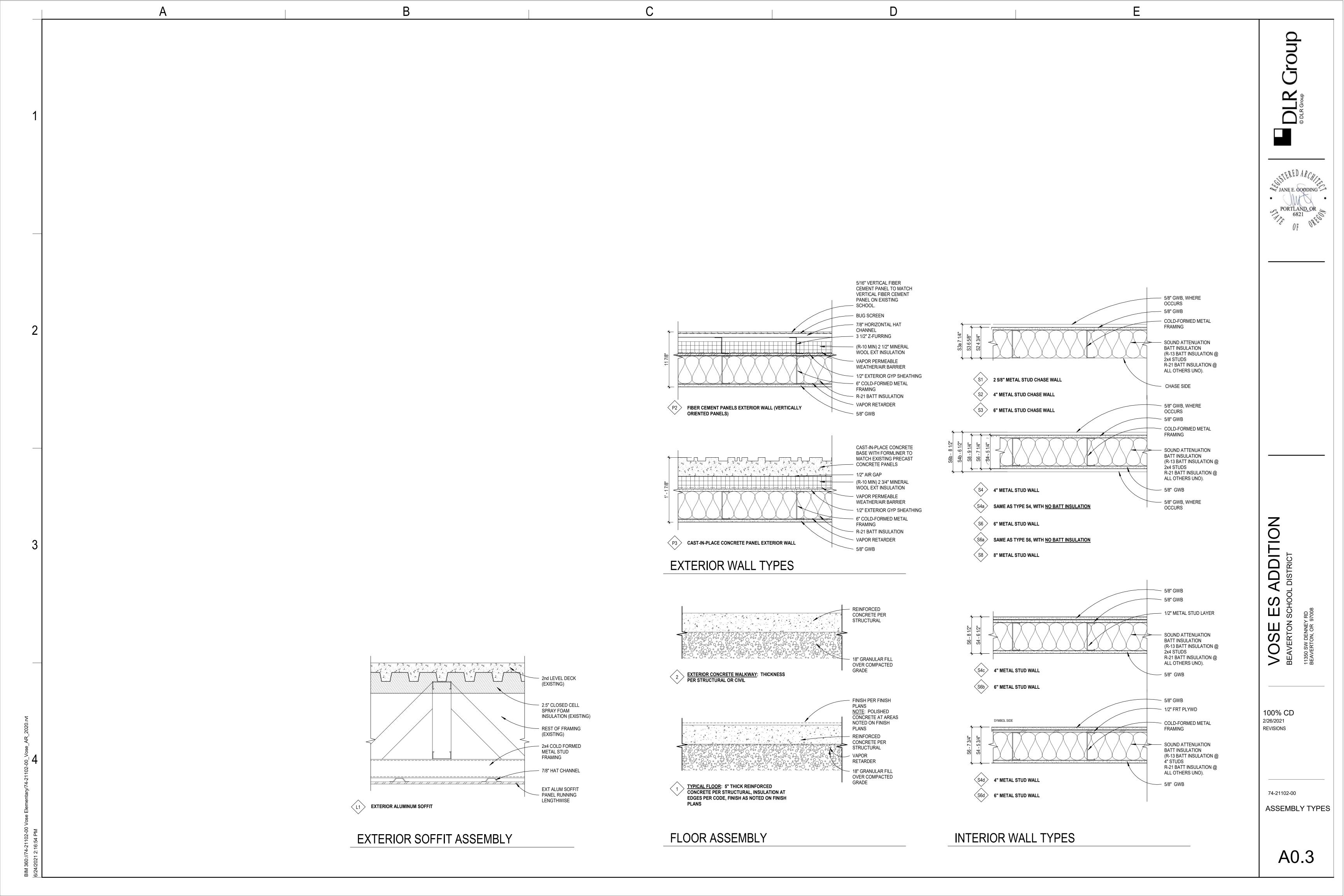
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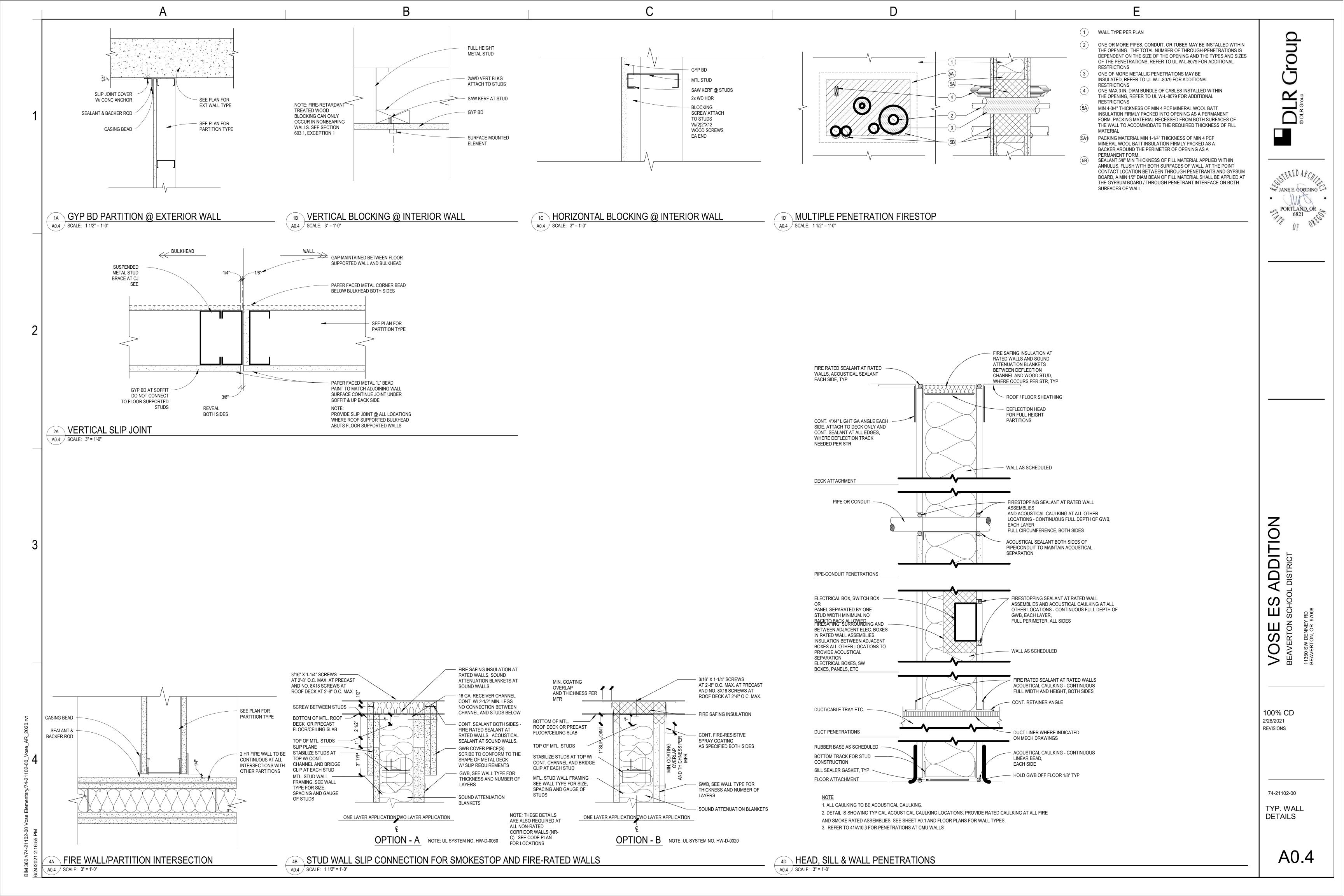
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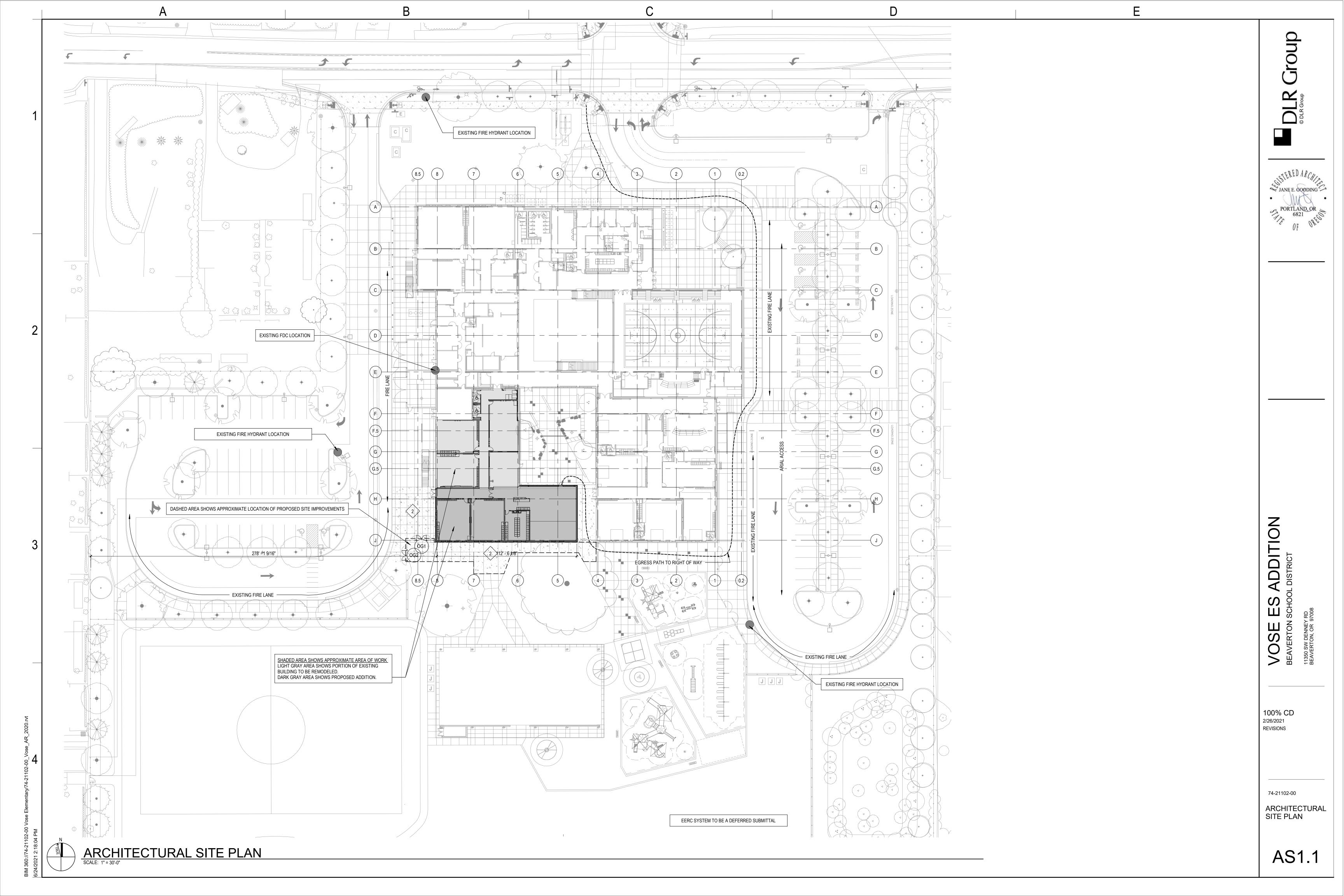


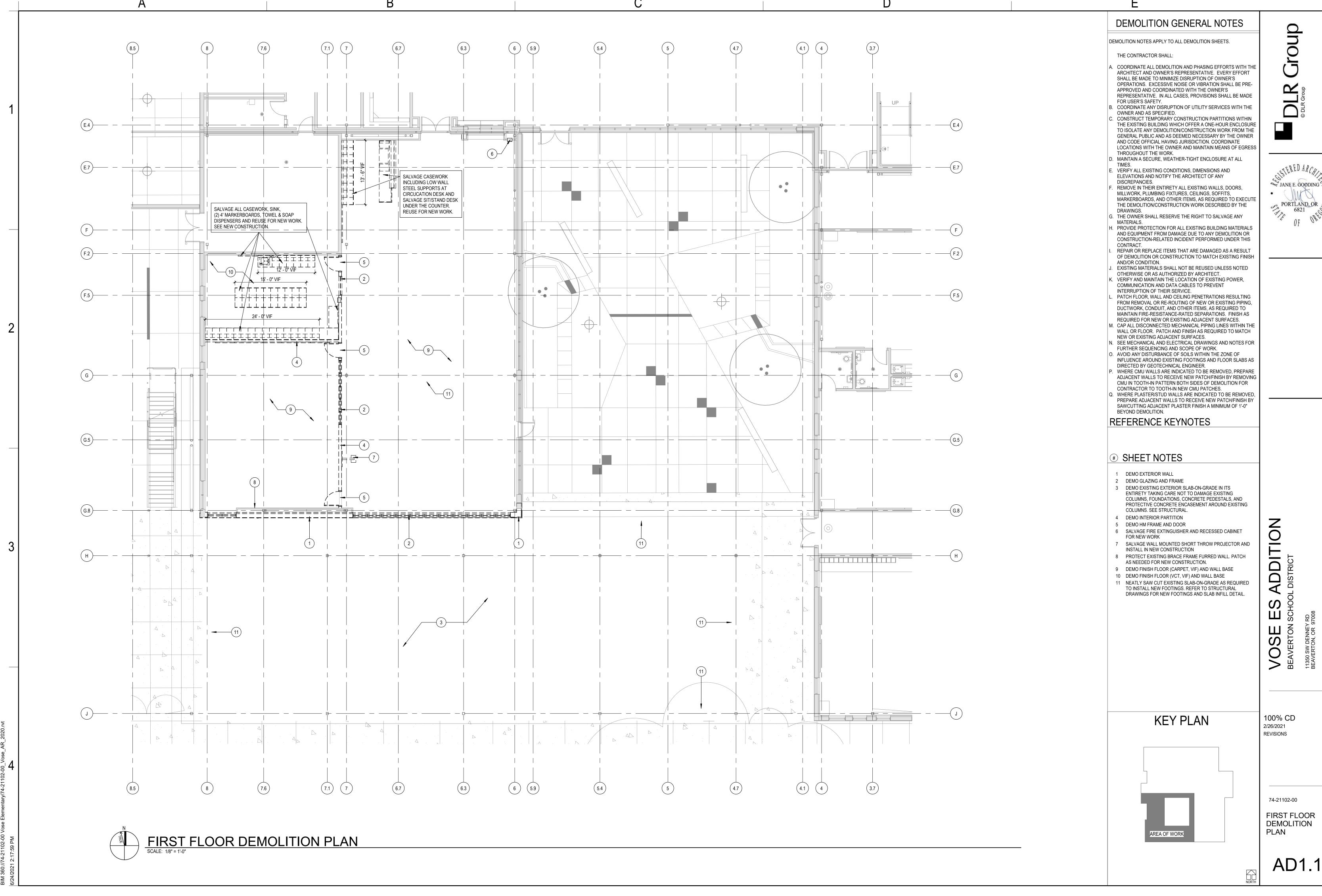


ARCHITECTURAL **ABBREVIATIONS**

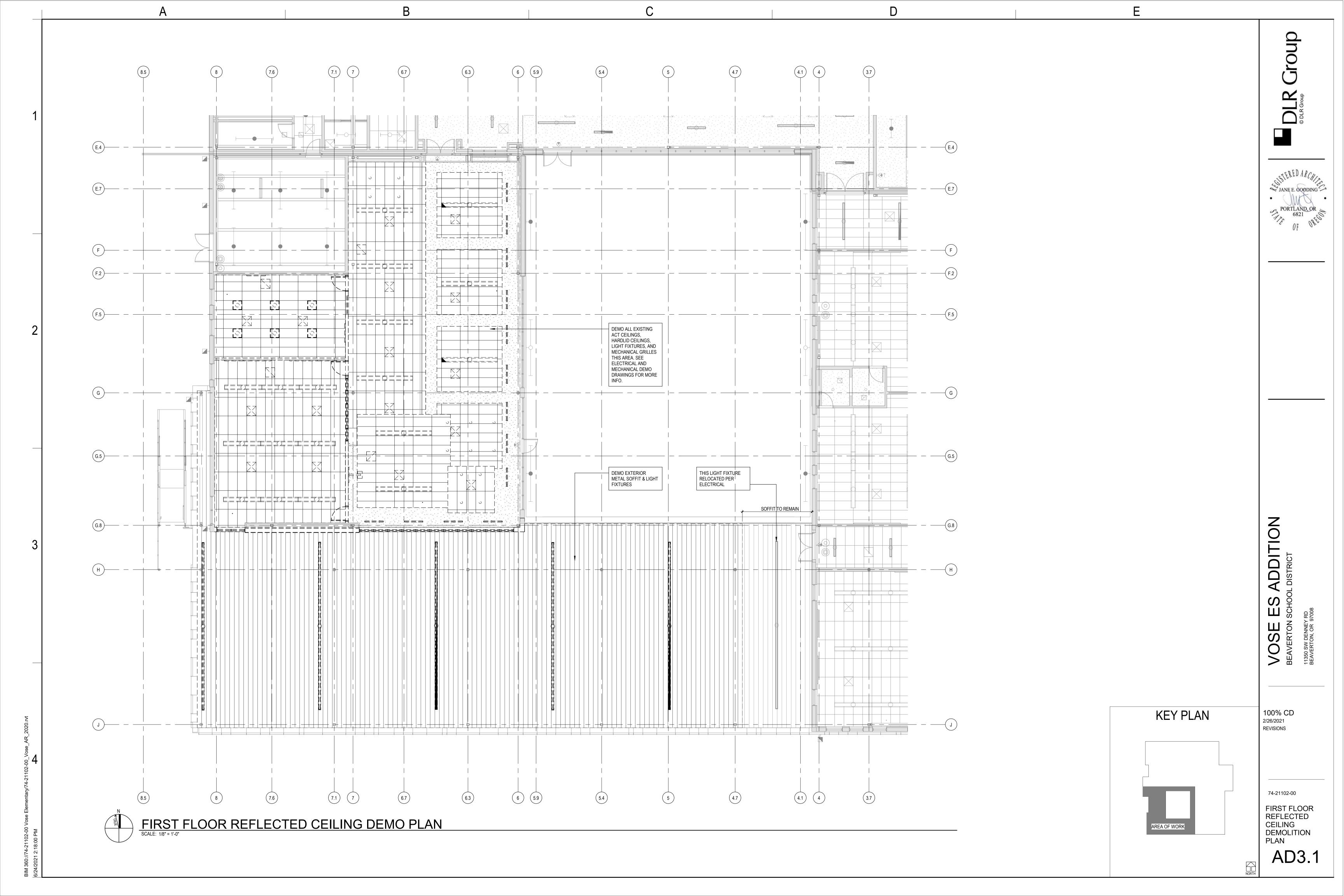


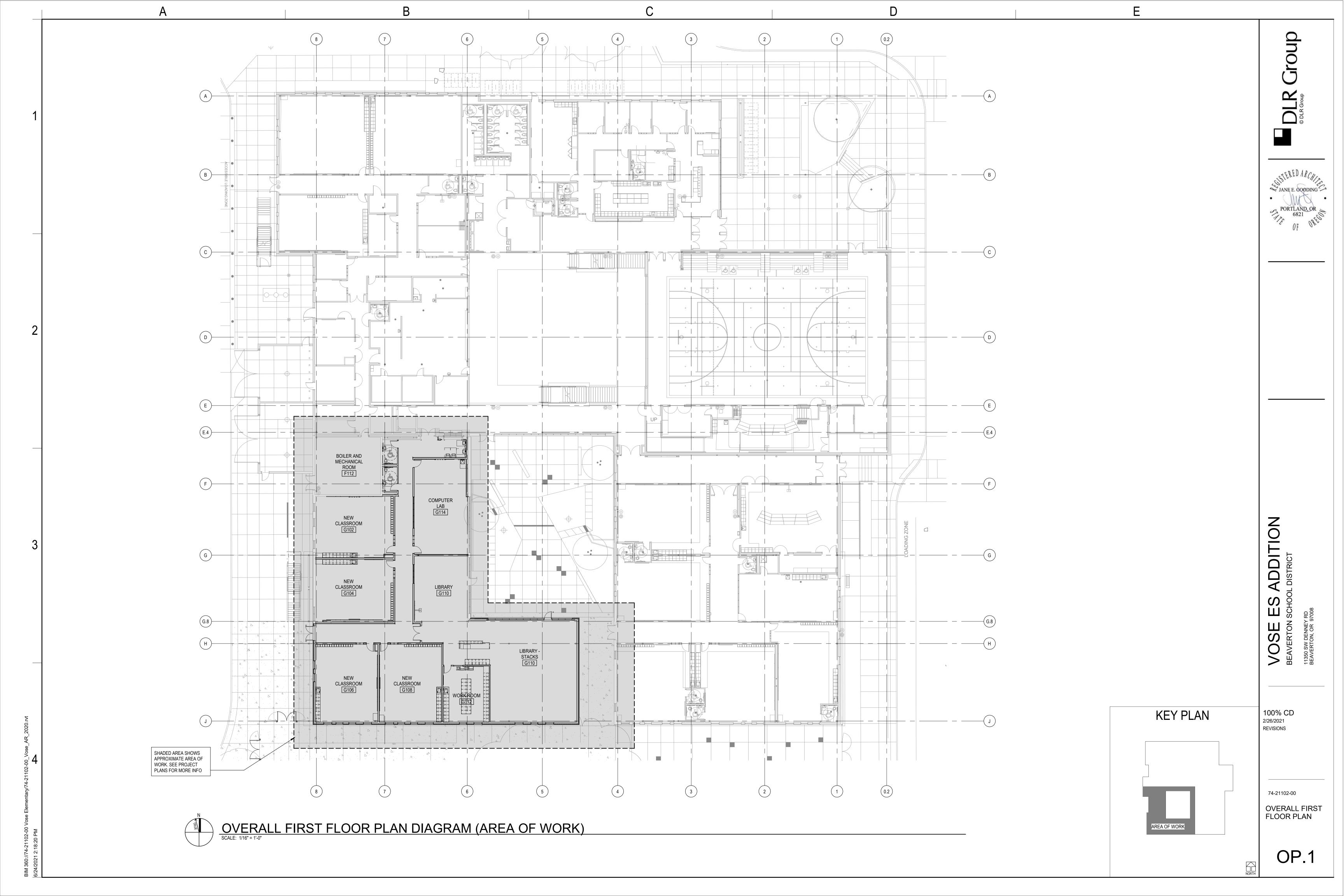


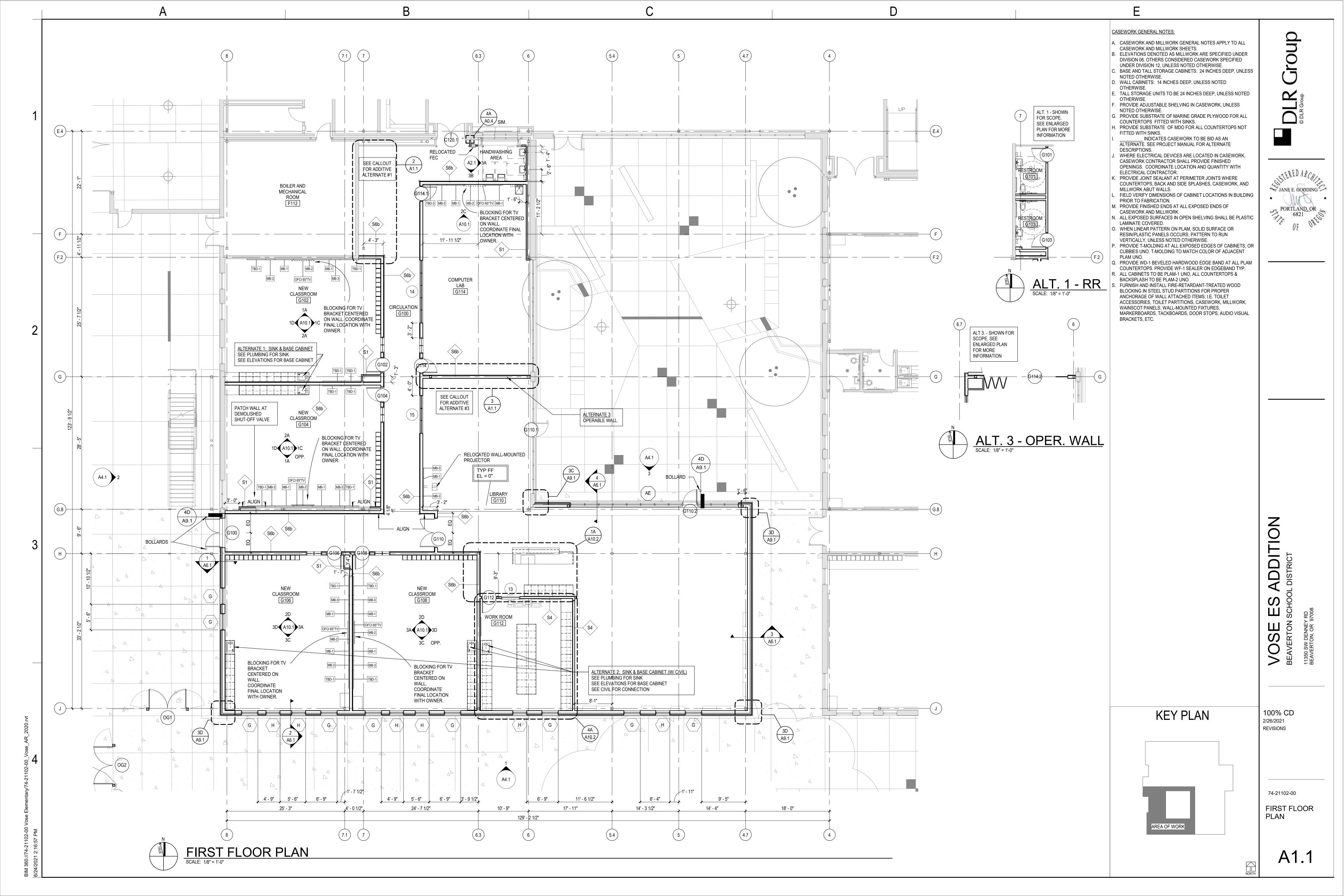


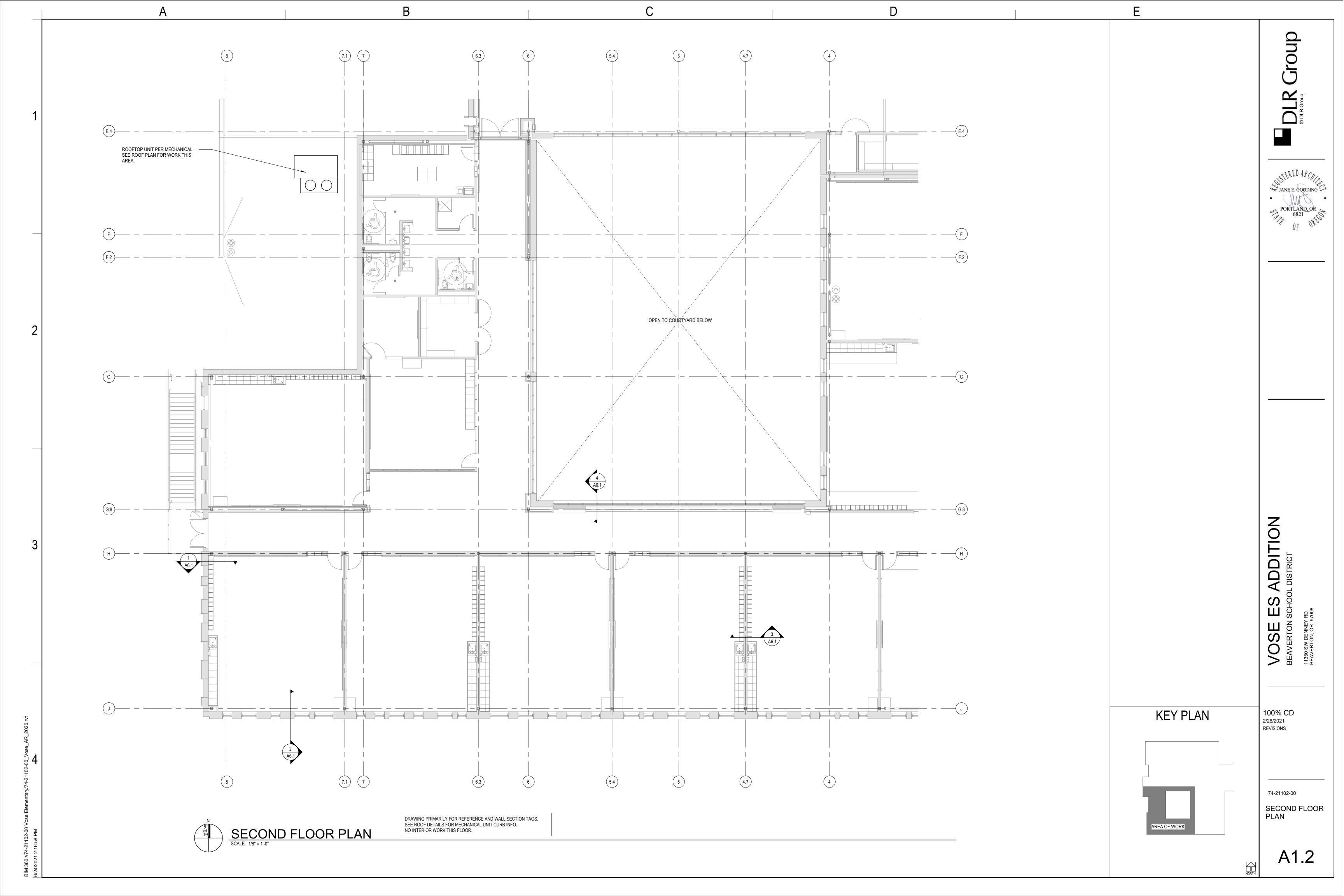


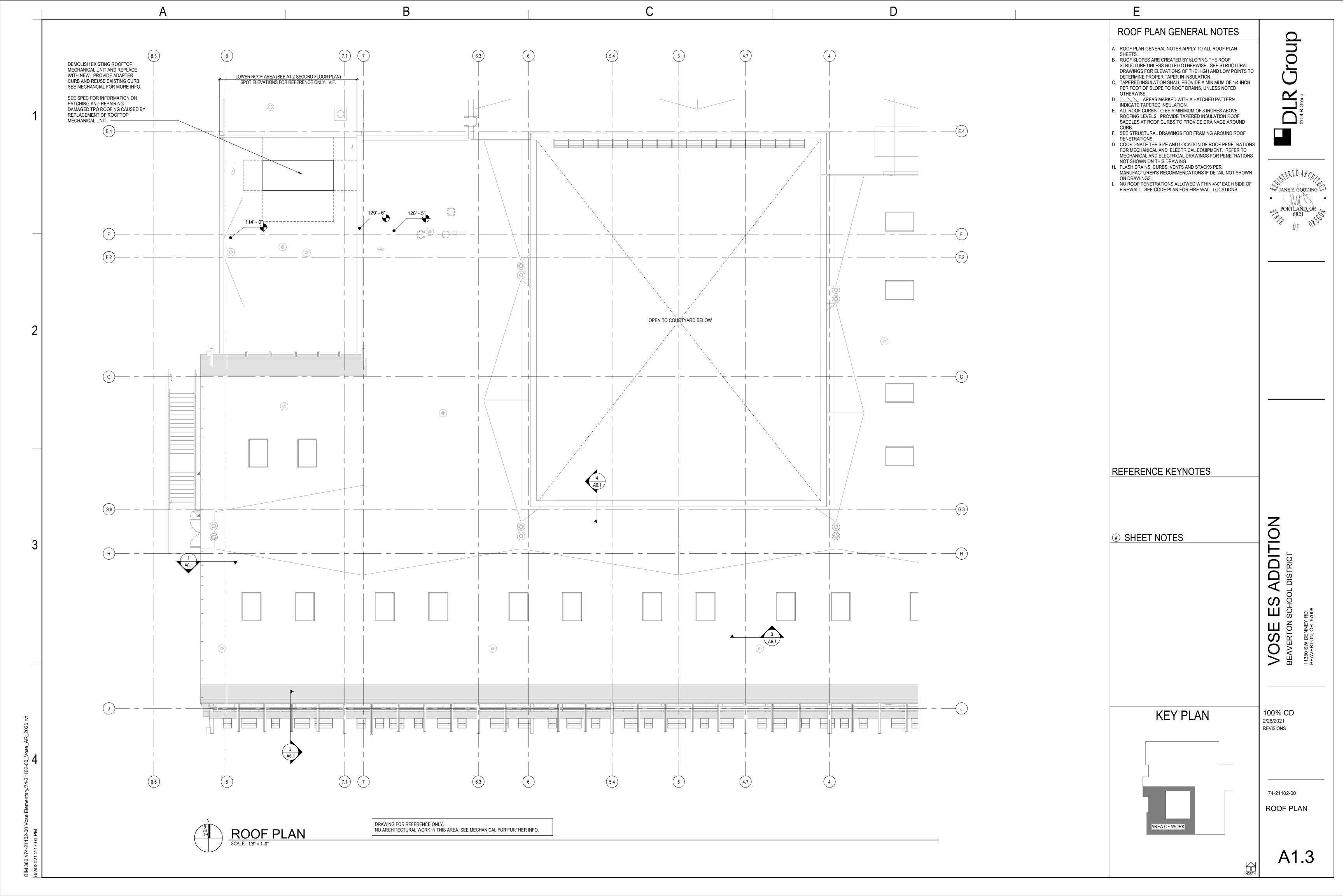
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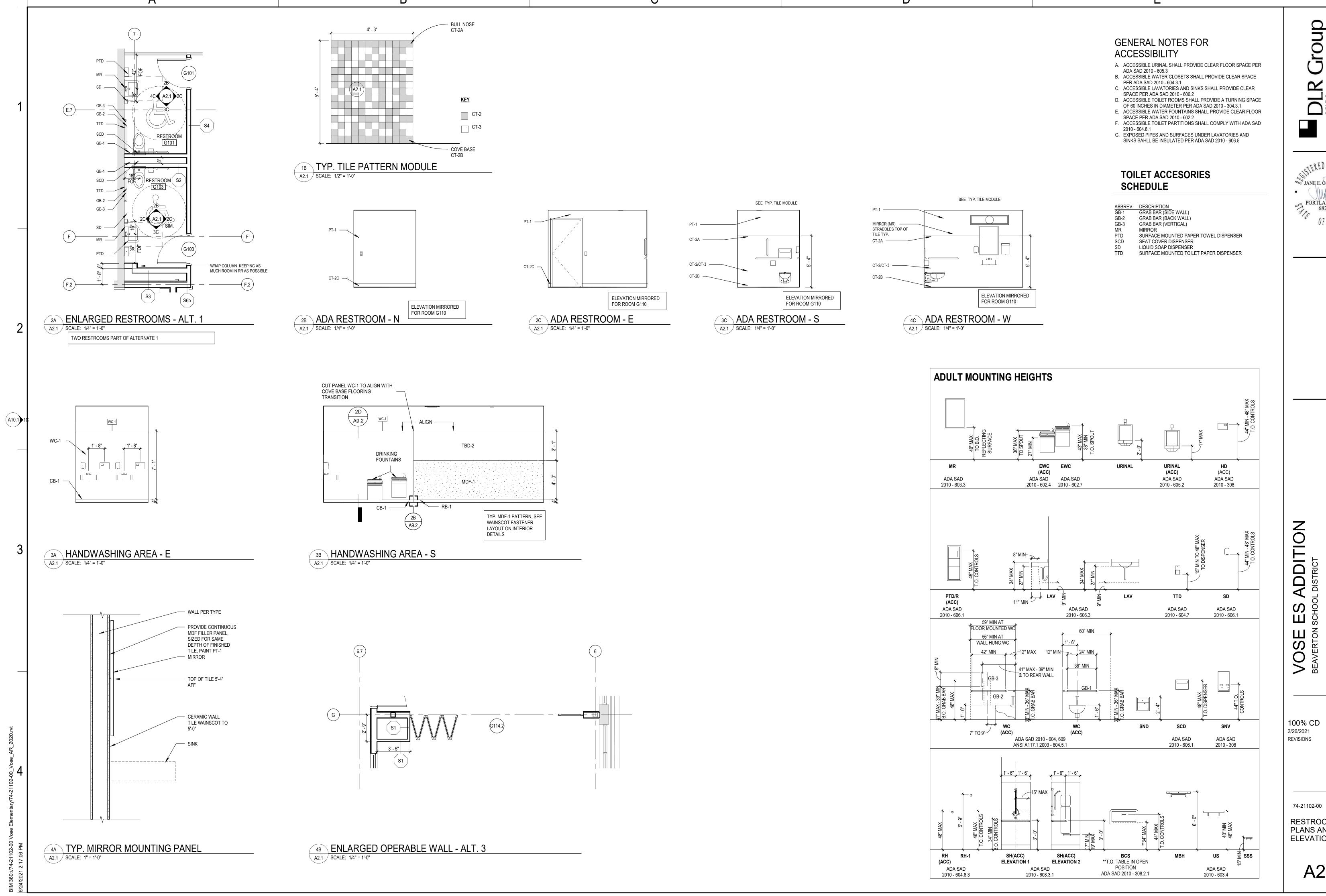












Group DLR

SISTERED ARCHITE

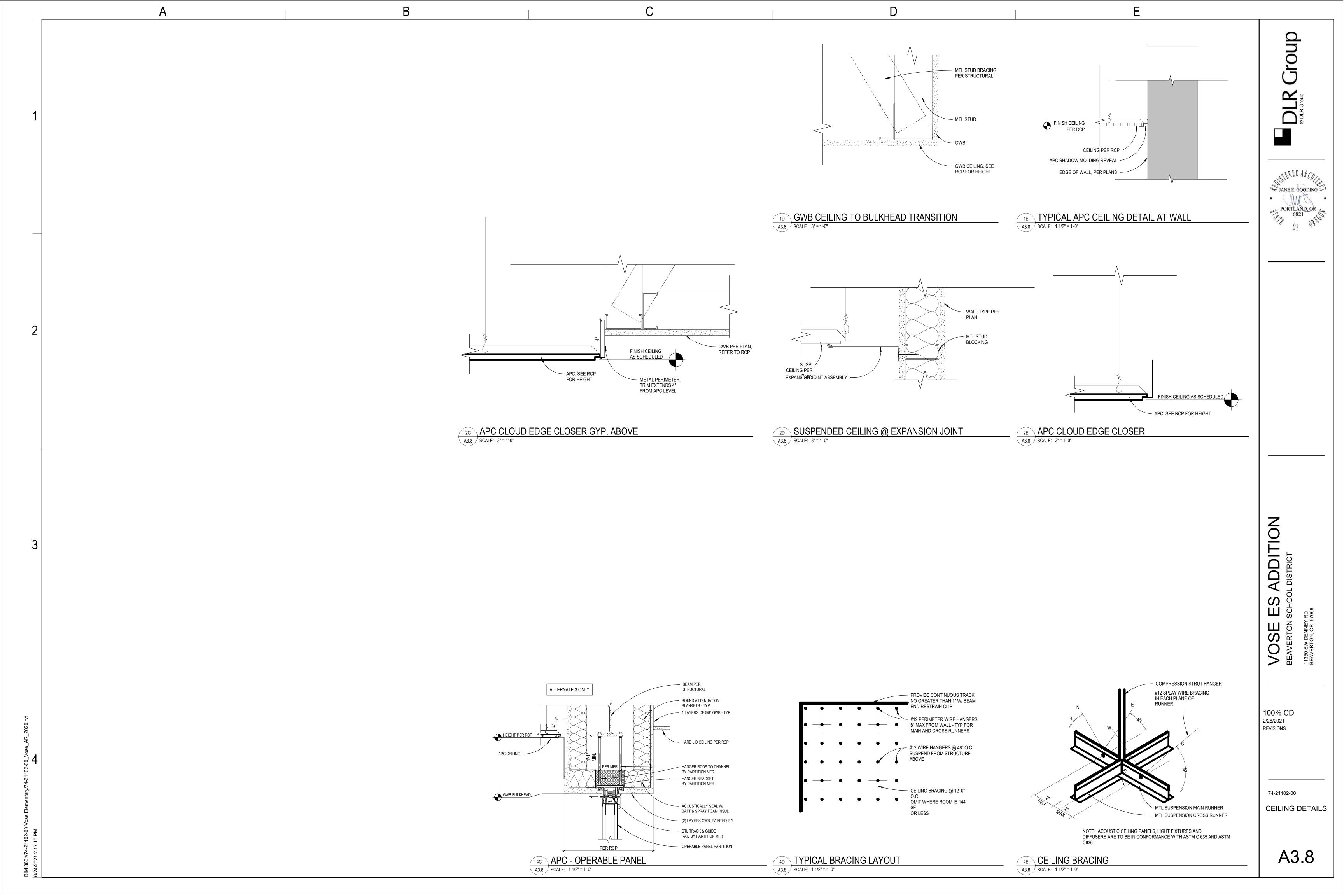
PORTLAND, OR 6821

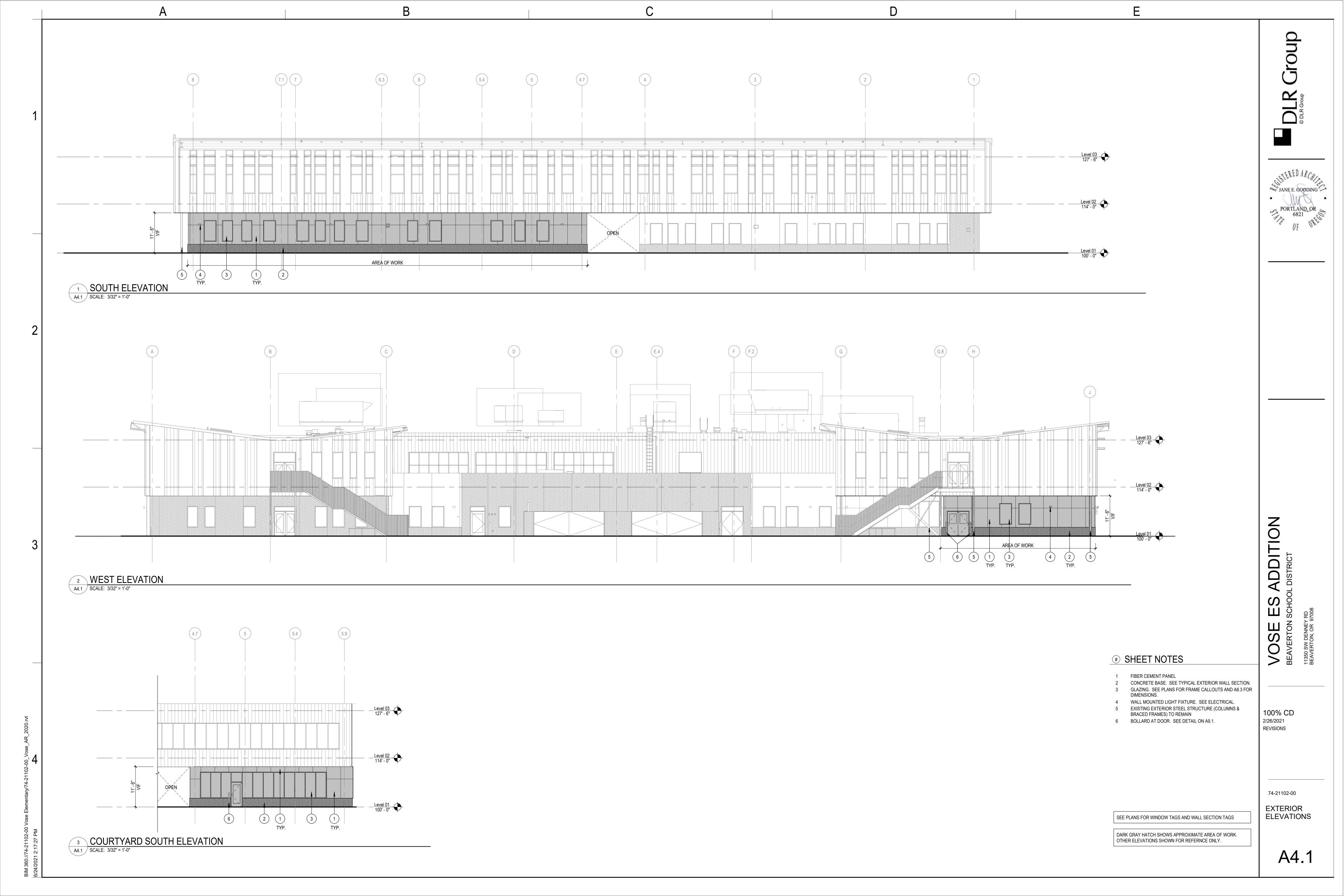
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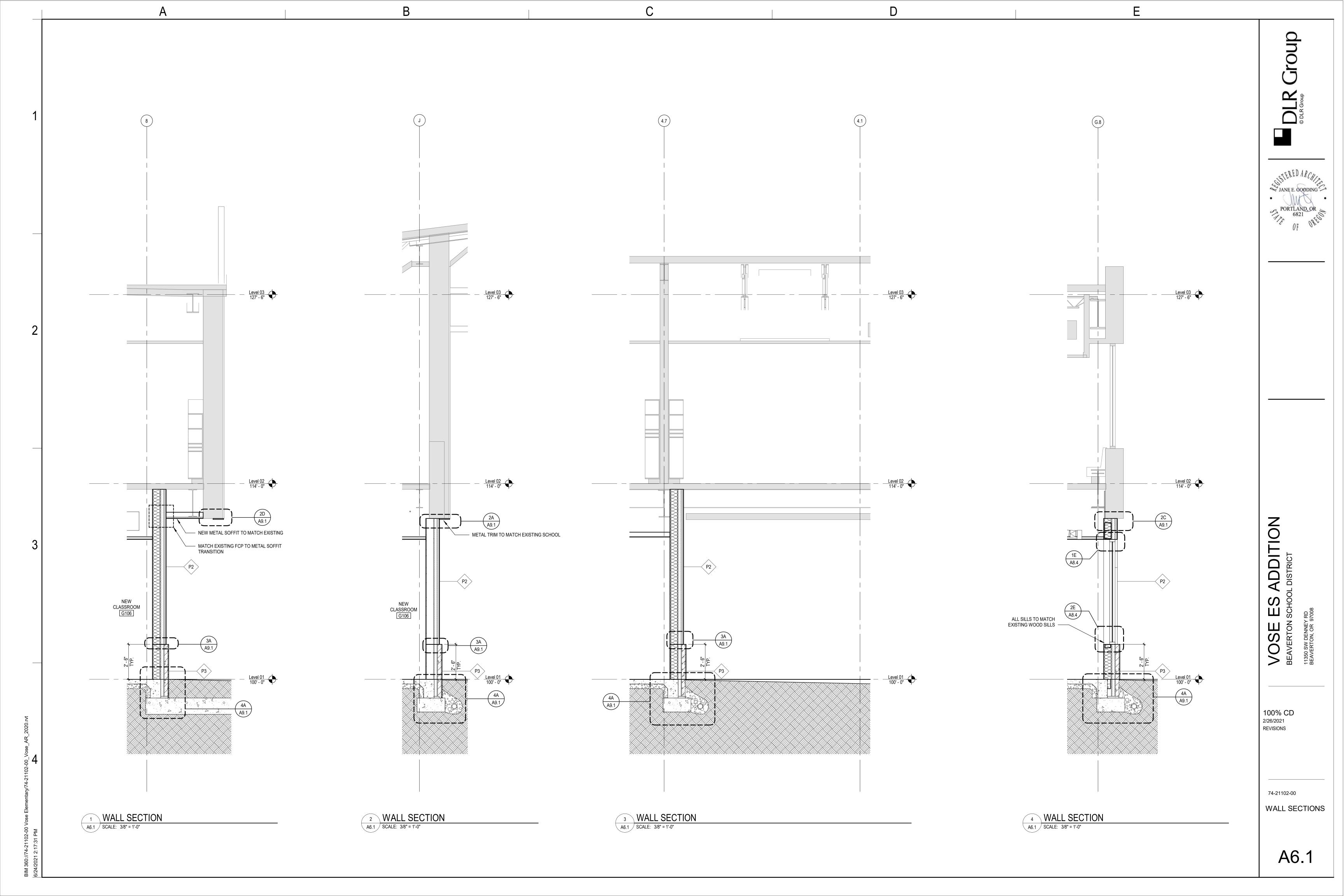
RESTROOM PLANS AND **ELEVATIONS**

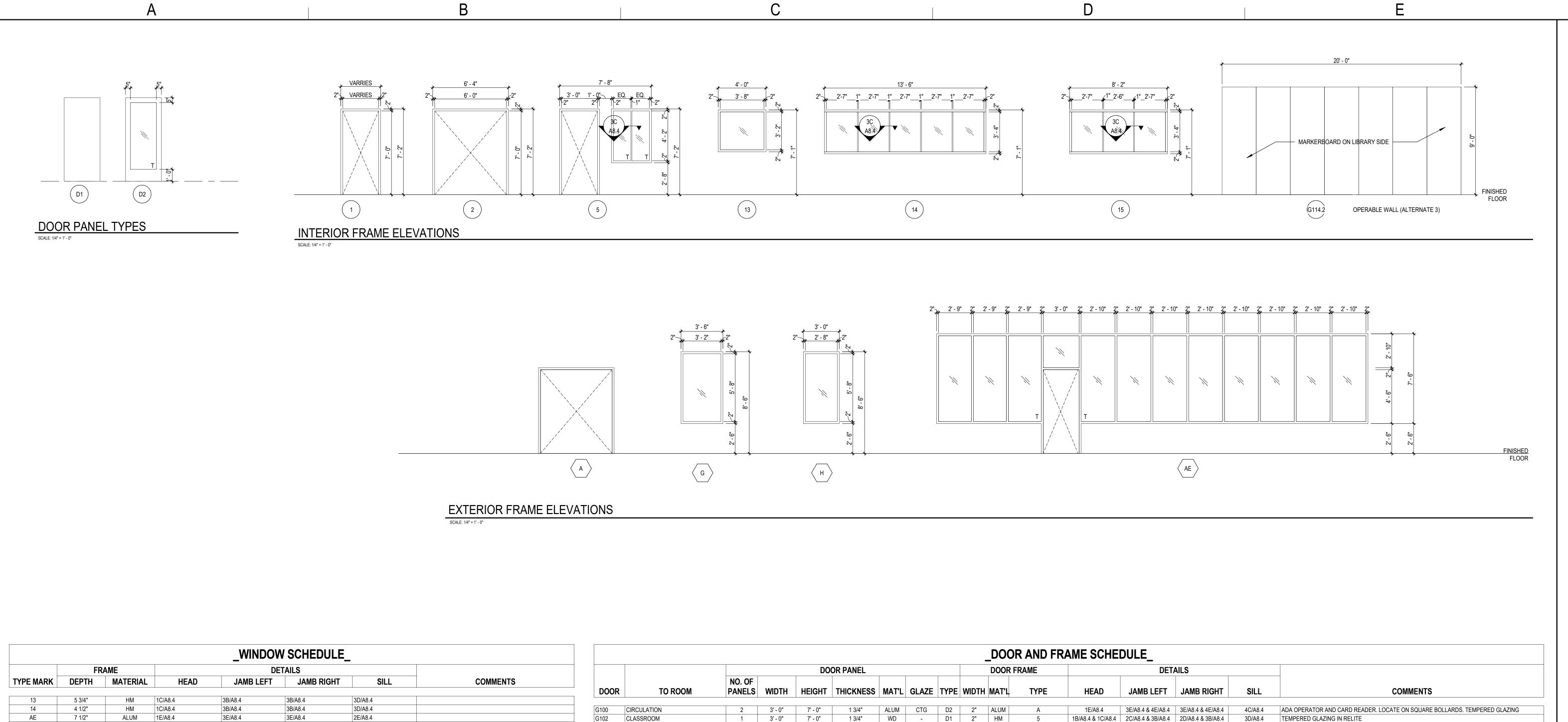
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TYPE MARK	FR	AME		DE			
	DEPTH	MATERIAL	HEAD	JAMB LEFT	JAMB RIGHT	SILL	COMMENTS
40	F 0/4"	1.184	40/40 4	00/40 4	2D/A0 4	2D/A0 4	
13	5 3/4"	HM	1C/A8.4	3B/A8.4	3B/A8.4	3D/A8.4	
14	4 1/2"	HM	1C/A8.4	3B/A8.4	3B/A8.4	3D/A8.4	
AE	7 1/2"	ALUM	1E/A8.4	3E/A8.4	3E/A8.4	2E/A8.4	
F	4 1/2"	HM	1C/A8.4	3B/A8.4	3B/A8.4	3D/A8.4	
G	4 1/2"	ALUM	1E/A8.4	3E/A8.4	3E/A8.4	2E/A8.4	
Н	4 1/2"	ALUM	1E/A8.4	3E/A8.4	3E/A8.4	2E/A8.4	
I	4 1/2"	HM	1C/A8.4	3B/A8.4	3B/A8.4	3D/A8.4	
K							

	DOOR AND FRAME SCHEDULE															
		DOOR PANEL									FRAME		DET	AILS		
DOOR	TO ROOM	NO. OF PANELS	WIDTH	HEIGHT	THICKNESS	MAT'L	GLAZE	ТҮРЕ	WIDTH	MAT'L	TYPE	HEAD	JAMB LEFT	JAMB RIGHT	SILL	COMMENTS
G100	CIRCULATION	2	3' - 0"	7' - 0"	1 3/4"	ALUM	CTG	D2	2"	ALUM	A	1E/A8.4	3E/A8.4 & 4E/A8.4	3E/A8.4 & 4E/A8.4	4C/A8.4	ADA OPERATOR AND CARD READER. LOCATE ON SQUARE BOLLARDS. TEMPERED GLAZING
G102	CLASSROOM	1	3' - 0"	7' - 0"	1 3/4"	WD	-	D1	2"	HM	5	1B/A8.4 & 1C/A8.4	2C/A8.4 & 3B/A8.4	2D/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE
G104	CLASSROOM	1	3' - 0"	7' - 0"	1 3/4"	WD	-	D1	2"	HM	5	1B/A8.4 & 1C/A8.4	2D/A8.4 & 3B/A8.4	2C/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE
G106	CLASSROOM	1	3' - 0"	7' - 0"	1 3/4"	WD	-	D1	2"	HM	5	21/A9.7	2C/A8.4 & 3B/A8.4	2D/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE
G108	CLASSROOM	1	3' - 0"	7' - 0"	1 3/4"	WD	-	D1	2"	HM	5	1B/A8.4 & 1C/A8.4	2D/A8.4 & 3B/A8.4	2C/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE
G110	LIBRARY	2	3' - 0"	7' - 0"	1 3/4"	WD	-	D1	2"	HM	1	1B/A8.4	2D/A8.4	2D/A8.4		
G110.2	COURTYARD	1	3' - 0"	7' - 0"	1 3/4"	ALUM	CTG	D2	2"	ALUM	AE	1E/A8.4	4D/A8.4 & 4E/A8.4	4D/A8.4 & 4E/A8.4	4C/A8.4	TEMPERED GLAZING AT DOOR PANEL
G112	LIBRARY WORK ROOM	1	3' - 0"	7' - 0"	1 3/4"	WD	-	D1	2"	WD	1	1B/A8.4	2D/A8.4	2C/A8.4		
G114	COMPUTER LAB/MAKER SPACE	1	3' - 0"	7' - 0"	1 3/4"	WD	-	D1	2"	HM	5	1B/A8.4 & 1C/A8.4	2D/A8.4 & 3B/A8.4	2C/A8.4 & 3B/A8.4	3D/A8.4	TEMPERED GLAZING IN RELITE
G114.1	COMPUTER LAB/MAKER SPACE	1	3' - 0"	7' - 2"	1 3/4"	WD	-	D1	2"	HM	1	1B/A8.4	2C/A8.4	2D/A8.4		
OG1	PLAYGROUND	2	4' - 0"	7' - 0"	1 3/4"	Steel	GATE	D8	2"	Steel	SEE LANDSCAPE					LOCKABLE GATE WITH PANIC BAR. SEE L7.5
OG2	PLAYGROUND	2	4' - 0"	7' - 0"	1 3/4"	Steel	GATE	D8	2"	Steel	SEE LANDSCAPE					LOCKABLE GATE WITH PANIC BAR. SEE L7.5

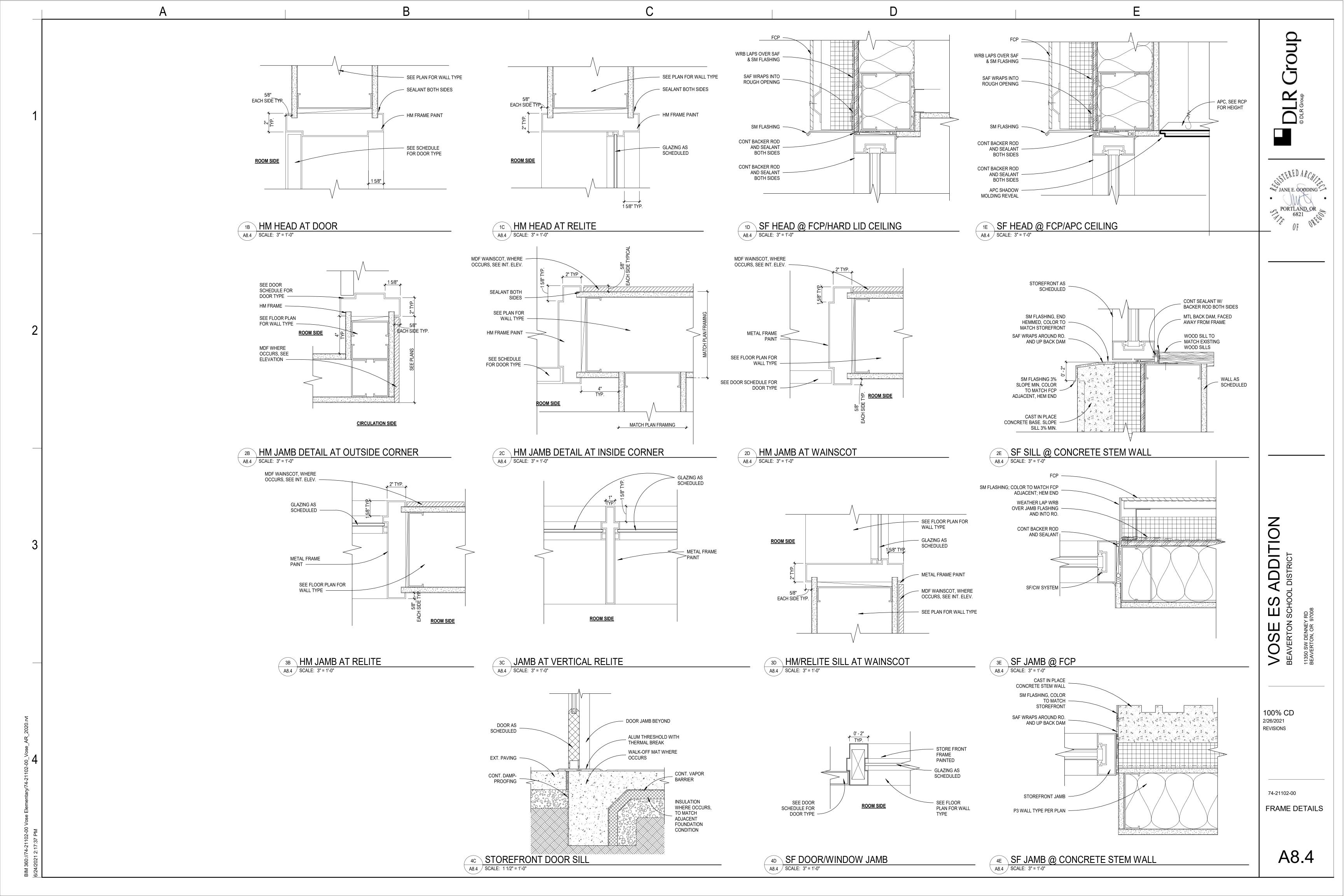
						D	OOR	AND	FRAI	ME S	CHE	DULE	ALTERN	ATES		
		DOOR PANEL								OR FRAN	ΛE			DETAILS		
DOOR	TO ROOM	NO. OF PANELS	WIDTH	HEIGHT	THICKNESS	MAT'L	GLAZE	TYPE	WIDTH	MAT'L	TYPE	HEAD	JAMB LEFT	JAMB RIGHT	SILL	COMMENTS
G101	UNISEX RESTROOM	1	3' - 0"	7' - 0"	1 3/4"	WD	-	D1	2"	WD	1	1B/A8.4	2D/A8.4	2B/A8.4	-	
G103	UNISEX RESTROOM	1	3' - 0"	7' - 0"	1 3/4"	WD	-	D1	2"	WD	1	1B/A8.4	2B/A8.4	2D/A8.4	-	
G114.2	COMPUTER LAB/MAKER SPACE	7	2' - 6 219/256"	9' - 0"	2"	ALUM	-		0"	ALUM						OPERABLE PARTITION. SEE SPEC. MARKERBOARD FINISH LIBRARY SIDE

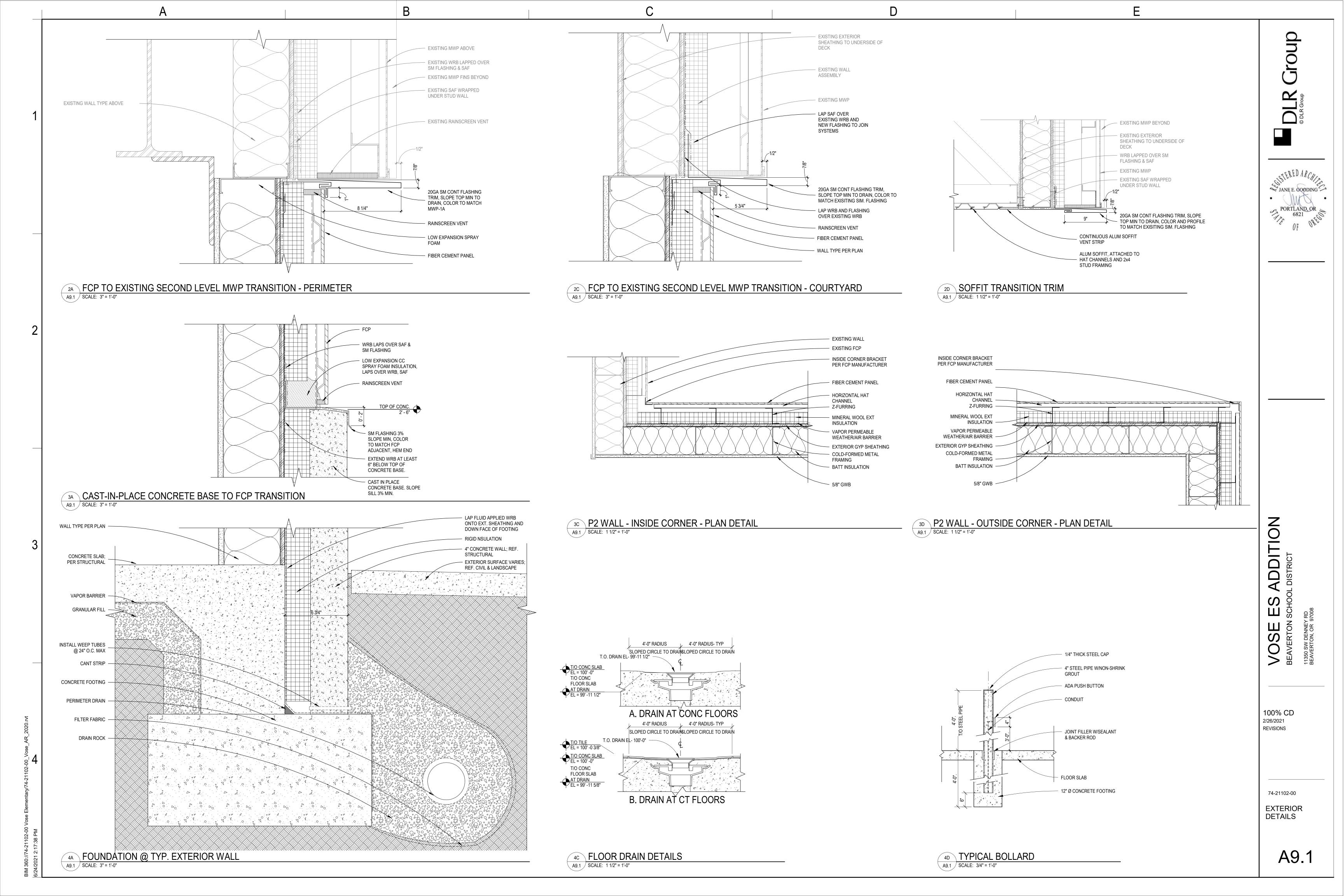


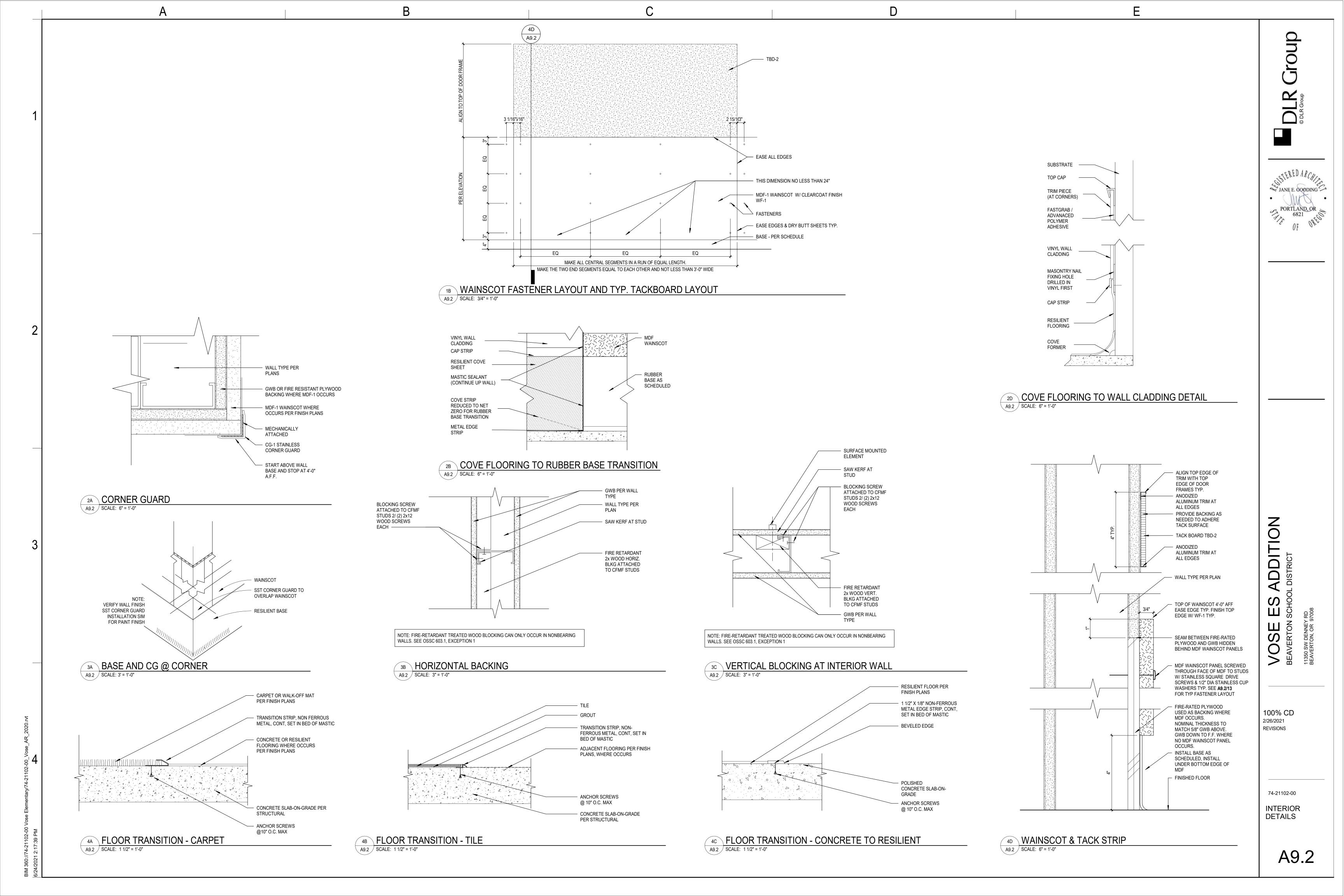
100% CD 2/26/2021

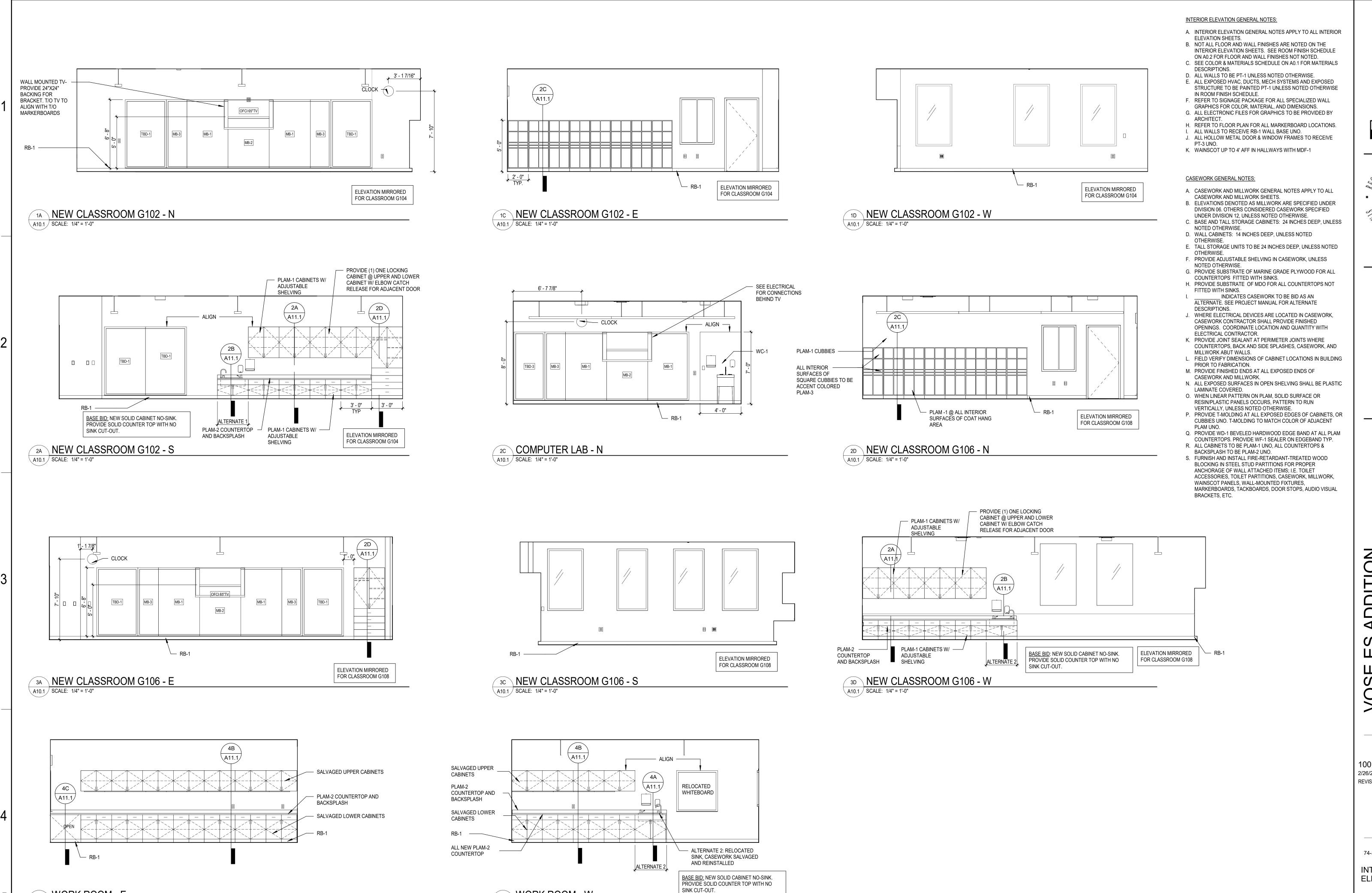
74-21102-00 FRAME ELEVATIONS

A8.3









4C WORK ROOM - W

A10.1 SCALE: 1/4" = 1'-0"

4A WORK ROOM - E

A10.1 SCALE: 1/4" = 1'-0"

Group \simeq



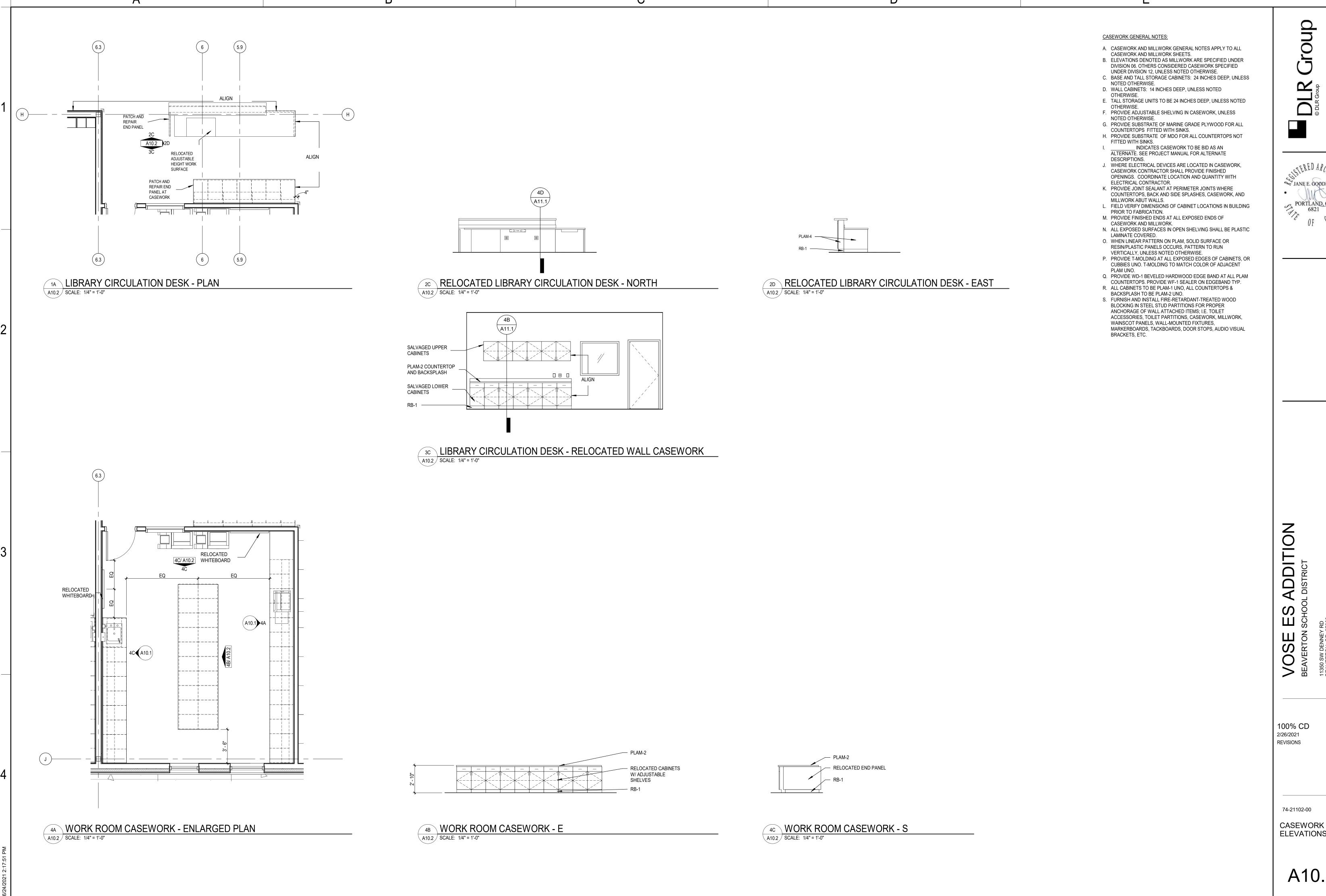
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> > 74-21102-00

INTERIOR **ELEVATIONS**

A10.1

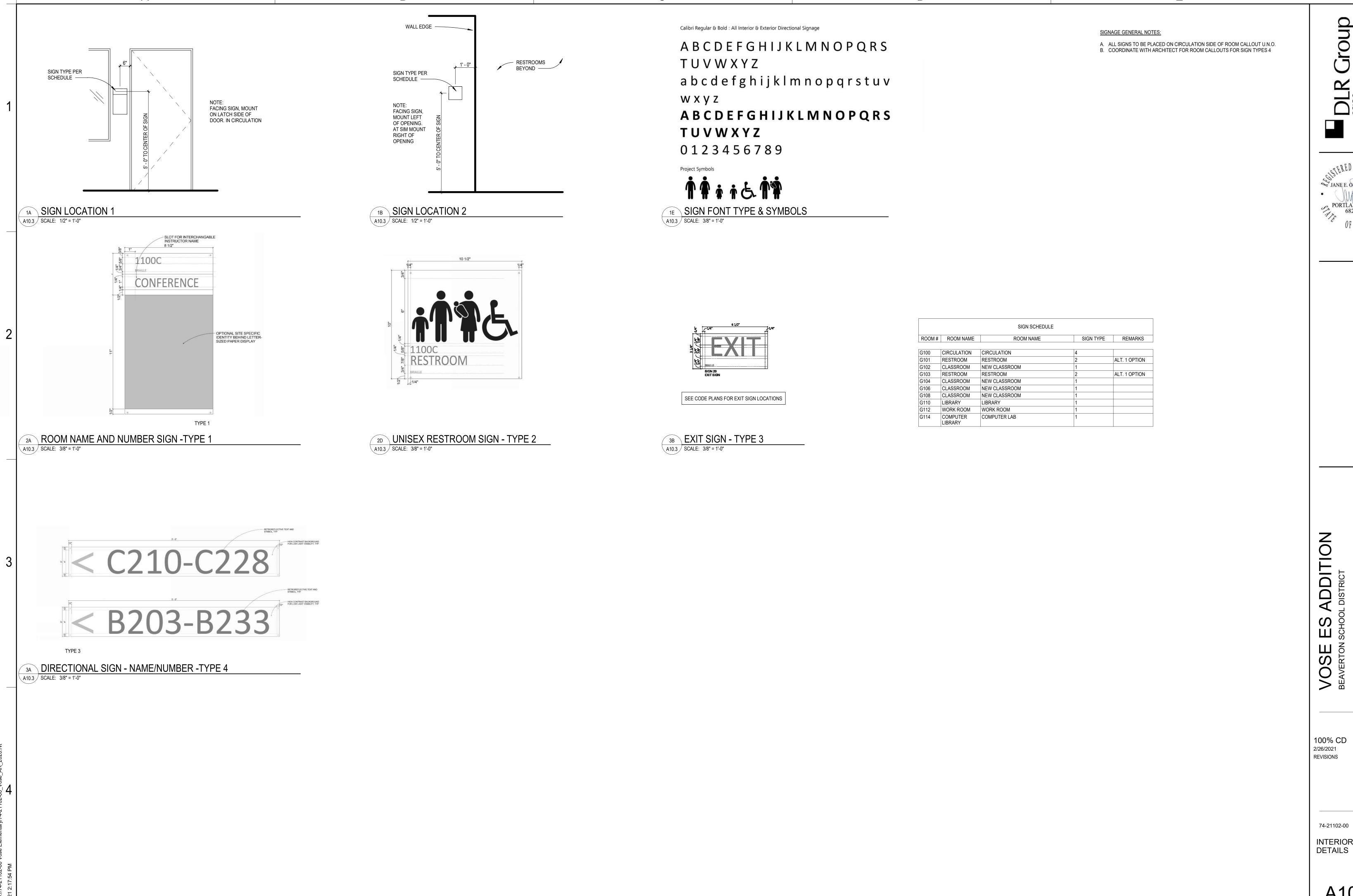


Group DLR

SISTERED ARCHITE PORTLAND, OR 6821

ELEVATIONS

A10.2



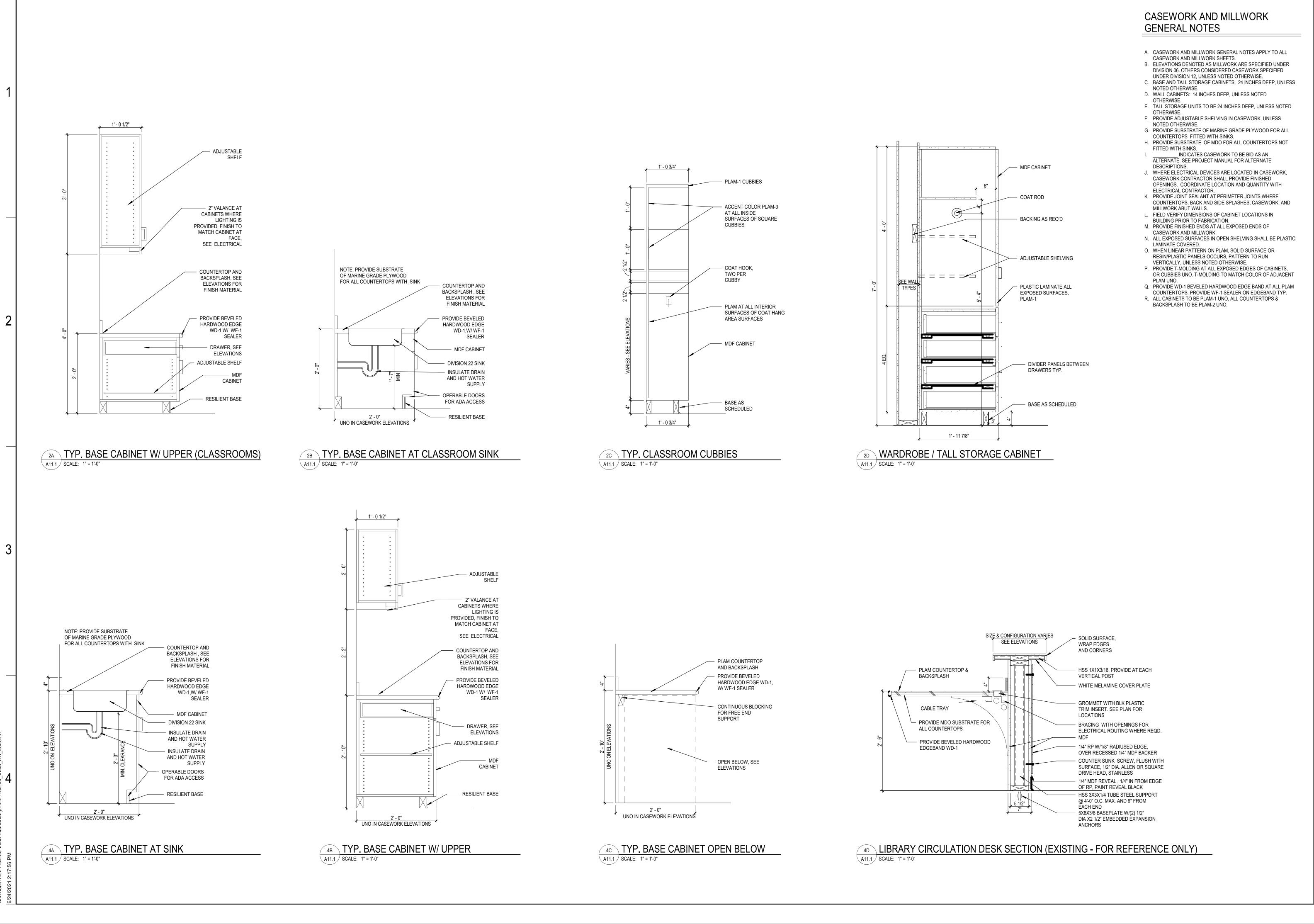
Group DLR



100% CD

74-21102-00 **INTERIOR SIGN**

A10.3



DLR Group

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PORTLAND, OR
6821

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ERTON SCHOOL DISTRICT

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74-21102-00 CASEWORK

SECTIONS

A11.

		_		HEDULE - BASIS OF DESIGN		
	GENERAL_ LOCATION	MANUFACTURER	PRODUCT NAME	COLOR / FINISH	SIZE	REMARKS
JSTICAL CE		ADMOTDONIC	FINE FIGURED LAVIN	WHITE W/ CATIN ALLIMINUM DDELLIDE VI. 45/40!	0.411 V 4.011 V 5/011	T
1 (CLASSROOMS, GENERAL	ARMSTRONG	FINE FISSURED, LAY-IN	WHITE W/ SATIN ALUMINUM PRELUDE XL 15/16"	24" X 48" X 5/8"	
PET 1 (GENERAL	INTERFACE	HARMONIZE	GRAVEL 104043	25CM X 1M PLANK	INSTALL IN ASHLAR PATTERN
	ACCENT IN LIBRARY	INTERFACE	GROUND WAVES	GRAVEL 104045 GRAVEL/COLORS 104055	25CM X 1M PLANK	INSTALL IN ASHLAR PATTERN
CRETE FLO	OORING					
(CORRIDORS / DINING COMMONS / WORK ROOM	RETROPLATE	RETROPLATE	NATURAL, NO FINISH/DYE	-	
	MISC.	-	-	SEALED CONCRETE	-	
NER GUARD		I			1	I
	CORNERS, TYP. WHERE GWB & MDF OCCURS	INPRO CORP.	TAPE-ON CORNER GUARD 430, 16-GAUAGE	STAINLESS STEEL	4'-0" x 0'-1 1/2"	START INSTALL ABOVE BASE
E BASE						
	COVE BASE AT HANDWASHING AREAS	ALTRO	COVE FORMER	C-8 CAP TILE, WHITE	4"H	COVE BASE FOR RES-1, ALTROMASTIC FOR
						TRANSITION TO RB-1
UT	MALL THE	LATIODETE	EDOVV	70 07501 100 011 1/50		T
	WALL TILE FLOOR TILE	LATICRETE LATICRETE	EPOXY EPOXY	78 STERLING SILVER 60 DUSTY GREY	-	
/EDDO ADD	20					
KERBOARD:	OS CLASSROOMS	CLARIDGE	STANDARD MAGNETIC MARKERBOARD	WHITE W/ SQUARE MITERED WHITE TRIM		INCLUDE MAGNETIC ACCESSORY TRAY 1'-0
! (CLASSROOMS	CLARIDGE	STANDARD MAGNETIC MARKERBOARD	WHITE W/ SQUARE MITERED WHITE TRIM	DRAWINGS 4' W x HEIGHT AS INDICATED ON	POWDER COAT WHITE
					DRAWINGS	
	CLASSROOMS	CLARIDGE	STANDARD MAGNETIC MARKERBOARD	WHITE W/ SQUARE MITERED WHITE TRIM	2' W x HEIGHT AS INDICATED ON DRAWINGS	NO ACCESSORY TRAY
T						
	GENERAL WALL	SHERWIN WILLIAMS	-	PURE WHITE 7005	-	
	ACCENT GREEN, COLUMNS HM DOOR FRAMES, DARK GREY	SHERWIN WILLIAMS SHERWIN WILLIAMS		PARADISE 6770 THUNDER GRAY 7645		COLUMNS, UNO COLUMN COLOR WHERE NOTED ON FINISH
	HIVI DOOR FRAINES, DARK GRET	SHERWIN WILLIAMS		THUNDER GRAT 7043		PLAN
TIC LAMINA	ATE					
И-1 C	CABINETS	FORMICA	-	RATTAN CANE 3699-58 MATTE	-	GRAIN DIRECTION TO RUN VERTICAL UNLES
	GENERAL COUNTERTOPS	FORMICA	-	MINERAL SPA 6920-58 MATTE	-	NOTES OFFICIALISE CIVILIS
	CASEWORK INTERIOR CUBBIES, BLUE CIRCULATION DESK, BODY	NEVAMAR FORMICA	-	PATRIOT BLUE S3Q48T TEXTURED GRAPHITE TWILL 8829-58 MATTE	-	GRAIN DIRECTION TO RUN VERTICAL UNLES
	· · · · · · · · · · · · · · · · · · ·					NOTED OTHERWISE ON A11s
LIENT BASE	E					
(GENERAL	JOHNSONITE	TRADITIONAL RUBBER BASE	STORM CLOUD 71	4" H	
ILIENT SHEE						
-1 H	HANDWASHING AREA	ALTRO	SYMPHONIA	PH2025 LAKESIDE	ROLL	
ILUTER SYST		1	1			I
	EDGING AT FLASH COVE BASE AREAS PROFILE FOR OUTSIDE CORNERS AT WALL TILE	SCHLUTER SCHLUTER	SCHIENE RONDEC	SATIN ANODIZED ALUMINUM SATIN ANODIZED ALUMINUM	-	
		1				
KBOARD 1 (GENERAL TACK BOARDS	CLARIDGE/FORBO	BULLETIN BOARD	MUSHROOM MEDLEY	4' W x HEIGHT AS INDICATED ON	FRAME PER ELEVATION
	CORRIDOR TACK STRIP	CLARIDGE/FORBO	BULLETIN BOARD TACK STRIP	MUSHROOM MEDLEY	DRAWINGS VARIES	TOP OF TACKSTRIP FRAME ALIGNS WITH TO
						OF DOOR FRAME
-3 T	TACK BOARDS	CLARIDGE/FORBO	BULLETIN BOARD	MUSHROOM MEDLEY	3' W x HEIGHT AS INDICATED ON DRAWINGS	FRAME PER ELEVATION
10		1		1		
NG F	FLOOR TILE IN TOILET ROOMS (ALTERNATE 1)	DALTILE	KEYSTONES	SUEDE GRAY SPECKLE D208	2" X 2"	
(GENERAL WALL TILE IN TOILET ROOMS (ALTERNATE 1)	DALTILE	SEMI-GLOSS	DESERT GRAY X114	4.25" X 4.25"	5" WAINSCOT MIXED W/CT-3
	GENERAL BULLNOSE WALL TILE IN TOILET ROOMS (ALTERNATE 1)	DALTILE	SEMI-GLOSS - BULLNOSE S4449	DESERT GRAY X114	4.25" X 4.25"	TOP ROW OF WALL TILE
	GENERAL COVE BASE WALL TILE IN TOILET ROOMS W/ FLAT TOP (ALTERNATE 1)	DALTILE	SEMI-GLOSS - COVE BASE A3401	DESERT GRAY X114	4.25" X 4.25"	BOTTOM ROW OF WALL TILE
C S	SANITARY COVE BASE WALL TILE IN TOILET ROOMS WITH	DALTILE	SEMI-GLOSS - COVE BASE S-3419T	DESERT GRAY X114	4.25" X 6"	COVE BASE ON NON-WET WALL
	BULL NOSE (ALTERNATE 1) GENERAL WALL TILE IN TOILET ROOMS (ALTERNATE 1)	DALTILE	SEMI-GLOSS	ARCTIC WHITE 0190	4.25" X 4.25"	5" WAINSCOT MIXED W/CT-2
L CLADDING			,			
	HANDWASHING WALLS	INPRO	SANI-SURFACE HYGIENIC WALL	PURE WHITE 0383	4'-0" X 8'-0"	CUT IN FIELD TO ALIGN WITH ADJACENT
			CLADDING			WHITEBOARDS
DOW SHADE						
	HORIZONTAL LOUVER BLINDS GENERAL	LEVOLOR MECHOSHADE	METAL BLINDS - RIVIERA MANUAL CLUTCH ROLLER SHADE - 3%	WHITE 5310 NICKEL	FIELD MEASURE FIELD MEASURE	INSTALL ON INTERIOR RELITES ALL EXTERIOR WINDOWS
			OPENNESS	33.0		
OD						
	MDF WAINSCOT IN CORRIDORS	-	MDF	CLEAR COAT (WF-1)		WAINSCOT UP TO 4' A.F.F
	COUNTERTOP HARDWOOD EDGING		ASH HARDWOOD	CLEAR COAT (WF-1)	3/4"	EDGE BANDING FOR PLAM COUNTERTOPS

DURALAQ-WB 1WB.10x

LENMAR

CLEAR COAT, SATIN FINISH

SPRAY 3 COATS, SAND BETWEEN COATS

CLEAR COAT FOR MDF-1 & WD-1

					RO	OOM FINISH	SCHEDULE			
	ROOM				W	ALL				
NUMBER	NAME	FLOOR FINISH	BASE FINISH	NORTH	EAST	SOUTH	WEST	CEILING FINISH	WDW SHADES	COMMENTS
G106	NEW CLASSROOM	PC, CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	SHADE-1,HLB-1	
G108	NEW CLASSROOM	PC, CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	SHADE-1,HLB-1	
G114	COMPUTER LAB	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1/EXP	APC-1	SHADE-1,HLB-1	
G102	NEW CLASSROOM	PC, CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	SHADE-1,HLB-1	
G104	NEW CLASSROOM	PC, CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	SHADE-1,HLB-1	
G110	LIBRARY	CPT-1, CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	GWB, APC-1	SHADE-1,HLB-1	
G101	RESTROOM	CT-1	CT-2B/CT-2C	PT-1	PT-1	CT-2/CT-3/CT-2A/PT-1	CT-2/CT-3/CT-2A/PT-1	GWB		ALT.1 OPTION - SEE ELEVATIONS FOR TILE AND WALL BASE LAYOUT
G103	RESTROOM	CT-1	CT-2B/CT-2C	CT-2/CT-3/CT-2A/PT-1	CT-2/CT-3/CT-2A/PT-1	PT-1	PT-1	GWB		ALT.1 OPTION - SEE ELEVATIONS FOR TILE AND WALL BASE LAYOUT
G112	WORK ROOM	PC	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	HLB-1	
G100	CIRCULATION	PC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1		SEE FINISH PLAN FOR MDF-1 AND TBD-2 WAINSCOT EXTENTS

COLOR AND MATERIAL SCHEDULE GENERAL NOTES

- A. SEE SPECIFICATIONS FOR PAINTING OF ITEMS NOT NOTED IN THE ROOM FINISH SCHEDULE.
- B. REFER TO INTERIOR FINISH PLANS (A12 SERIES), INTERIOR ELEVATIONS (A10 SERIES), AND REFLECTED CEILING PLANS (A3 SERIES) FOR MORE INFORMATION ON FINISH EXTENTS AND PATTERNS AND CEILING HEIGHTS.
- C. EXPOSED CONCRETE FLOOR SLABS NOT SCHEDULED TO RECEIVE A FINISH SHALL RECEIVE A CURING AND SEALING COMPOUND UNLESS OTHERWISE NOTED.
- D. ALL GWB CEILINGS, SOFFITS, AND BULKHEADS SHALL BE
- PAINTED PT-1 UNLESS OTHERWISE NOTED. E. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING,
- PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
 F. FURNISH AND INSTALL WALL BASE AROUND CASEWORK AND MILLWORK.
- G. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF
- THE COMMUNICATING DOOR.

 H. SEE REFLECTED CEILING PLANS FOR CEILING TYPES AND

- I. REFER TO DOOR SCHEDULE FOR ADDTIONAL INFORMATION OF PAINTING AND STAINING OF DOORS AND FRAMES.

 J. PAINT ALL ACCESS PANELS TO MATCH ADJACENT WALL FINISH.

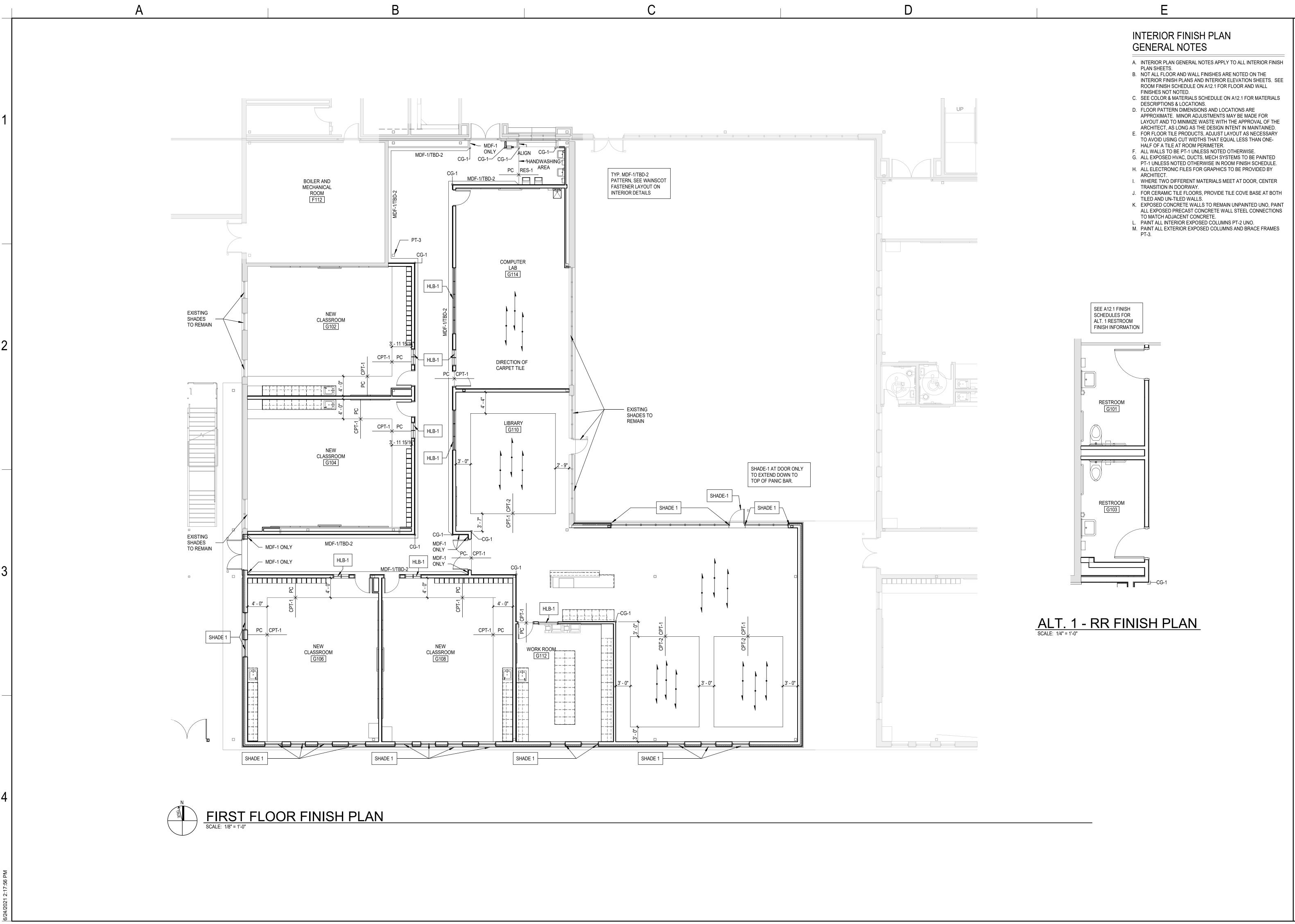
 K. ALL EXTERIOR WINDOWS RECEIVE SHADE-1, ALL INTERIOR
- WINDOWS RECEIVE HLB-1, UNO.
- L. EXTERIOR DOORS WITH GLAZING TO RECEIVE SHADE-1 ON UPPER HALF (ABOVE EGRESS BAR).



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74-21102-00 FINISH

SCHEDULES



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PORTLAND, OR 6821

SE ES ADDITION
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74-21102-00

FIRST FLOOR FINISH PLAN

A12.2

DESIGN CRITERIA

1. SNOW LOAD CRITERIA GROUND SNOW LOAD, Pa FLAT ROOF SNOW LOAD, P. SNOW EXPOSURE FACTOR, Ce SNOW LOAD IMPORTANCE FACTOR, Is

FROM THE SURFACES.

3. SEISMIC DESIGN CRITERIA

SITE CLASS

LATITUDE

LONGITUDE

RISK CATEGORY

IMPORTANCE FACTOR, Ie

SEISMIC DESIGN CATEGORY

THERMAL FACTOR, Ct WIND DESIGN CRITERIA RISK CATEGORY ULTIMATE DESIGN WIND SPEED, Vult NOMINAL DESIGN WIND SPEED, Vasd

103 MPH 80 MPH EXPOSURE CATEGORY INTERNAL PRESSURE COEFFICIENT, GCpi +/- 0.18

				•
	ONENTS AND			
	WAI	LS		
ZONE	10 SF	100 SF	500 SF	
4	+24.0	+20.5	+18.0	
4	-26.0	-22.5	-20.0	
5	+24.0	+20.5	+18.0	1 🔀
ວ	-32.1	-25.0	-20.0	
NOTES:				
1. TABLE PR	ESSURES ARE	FOR THE SQL	JARE FOOT	
TRIBUTAR	Y AREA SHOW	/N. FOR OTHE	R	
TRIBUTAR	Y AREAS, LINE	EARLY INTERP	OLATE	
BETWEEN	VALUES SHOW	WN ABOVE.		9>
2. POSITIVE	PRESSURES A	ACT TOWARD 1	ГНЕ	
SURFACE	S. NEGATIVE	PRESSURES A	CT AWAY	

a = 11 FT

0.401 0.508

IV (USED FOR SEISMIC DESIGN ONLY) 1.50 (USED FOR SEISMIC DESIGN ONLY)

FOUNDATIONS

1. THE FOUNDATIONS WERE DESIGNED TO THE REQUIREMENTS PROVIDED IN THE PROJECT GEOTECHNICAL REPORT PREPARED BY GEODESIGN: VOSE JOB NO. BEAVSCHOOL-48-01, DATED MARCH 2, 2016. THRE REPORT WAS PREPARED FOR THE ORIGINAL SCHOOL CONSTRUCTION. THE CONTRACTOR SHALL UTILIZE THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT TO ACHIEVE THE DESIGN PARAMETERS LISTED IN THESE DRAWINGS

LATERAL EARTH PRESSURES: AT REST PRESSURE: **ACTIVE PRESSURE** PASSIVE PRESSURE 250 PSF/FT

- 2. THE GEOTECHNICAL ENGINEER SHALL OBSERVE AND APPROVE PREPARED SOIL BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL AND CASTING OF FOOTING. THE GEOTECHNICAL
- 3. SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS SHALL CONFORM STRICTLY TO THE CONTRACT DOCUMENTS, THE RECOMMENDATIONS
- 4. DETERMINE THE LOCATION OF ALL NEW/EXISTING UNDERGROUND UTILITIES IN AND ADJACENT TO THE AREA OF WORK PRIOR TO COMMENCING EXCAVATION. COORDINATE UTILITY LOCATIONS WITH
- 5. CONTRACTOR SHALL CONFIRM THE AS-BUILT LOCATION OF ANY POTENTIAL NEW OR EXISTING STRUCTURES OR OBJECTS WITHIN THE ZONE OF EXCAVATION INCLUDING WORK PERFORMED AS A PORTION OF THIS PROJECT BEFORE EXCAVATING OR INSTALLING FOUNDATION FLEMENTS. NOTIFY THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY EXCAVATIONS OR OTHER SITE WORK. IF THE EXCAVATION WILL CUT BELOW AN ADJACENT STRUCTURE'S BOTTOM OF FOOTING ELEVATION OR IF AN ADJACENT STRUCTURE IS UP SLOPE FROM THE PLANNED SITE WORK.
- 6. BACKFILL FOOTINGS AND FOUNDATION WALLS WITH FREE DRAINING GRANULAR FILL. PROVIDE A SUBSURFACE DRAINAGE SYSTEM FOR FOUNDATION AND RETAINING WALLS BASED ON THE GEOTECHNICAL REPORT RECOMMENDATIONS. DO NOT BACKFILL BEHIND WALLS BEFORE ADJACENT SUPPORTING ELEMENTS ARE COMPLETE AND CURED. ALTERNATIVELY, PROVIDE DESIGN AND CONSTRUCTION OF TEMPORARY BRACING THAT PROTECTS THE WALL AGAINST OVERSTRESS OR
- AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND BASED ON LOCAL AVAILABILITY.
- 8. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH, CONTROLLED, COMPACTED STRUCTURAL FIL OR BOTH AT LEAST MINIMUM BEARING DEPTH BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS AND DETAILS ARE MINIMUM. NOTIFY ENGINEER OF ANY NECESSARY DEVIATIONS FROM THE FOOTING ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTING THE FOOTINGS.
- 9. THE EXTERIOR VERTICAL FACE OF ALL EXPOSED SLAB TURNDOWNS SHALL BE FORMED. THE SIDES OF FOOTINGS MAY BE EARTH FORMED AS LONG AS THE SOIL WILL MAINTAIN A VERTICAL FACE. ALL FOUNDATION STEM WALLS AND RETAINING WALLS SHALL BE FORMED ON BOTH SIDES OF THE WALL
- APPLICABLE OSHA REGULATIONS.

STRUCTURAL SHEET LIST

STRUCTURAL OBSERVATION

USE OF DRAWINGS 1. ALL TYPICAL DETAILS AND NOTES SHOWN IN THE DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR

2. NOTES ON THE STRUCTURAL GENERAL NOTES SHEETS ARE APPLICABLE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

3. USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, MECHANICAL AND OTHER DRAWINGS FOR BIDDING AND CONSTRUCTION. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE WORK AND VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BETWEEN TRADES AND EQUIPMENT PURCHASED. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES PRIOR TO CONSTRUCTION.

4. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO CONSTRUCTION.

5. DIMENSIONS NOTED PLUS OR MINUS (+/-) OR AS 'FIELD VERIFY' INDICATE UN-VERIFIED DIMENSIONS THAT REQUIRE CONFIRMATION OR DETERMINATION BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF CONFLICTS OR VARIATIONS FROM INDICATED DIMENSIONS.

6. IF ANY ERRORS OR OMISSIONS APPEAR TO EXIST IN THESE DRAWINGS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS: THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OR ARCHITECT IN WRITING OF SUCH OMISSION OR ERROR BEFORE PROCEEDING WITH THE WORK.

IF ANY STRUCTURAL NOTES ARE IN CONFLICT WITH EACH OTHER ARCHITECTURAL, OTHER DRAWINGS, OR THE SPECIFICATIONS, USE THE MOST STRINGENT REQUIREMENT FOR BIDDING AND CONSTRUCTING THE WORK.

8. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT AND BE ACCOMPANIED BY SUBSTANTIATING CALCULATIONS.

MEANS AND METHODS

- DLR GROUP, NOR ANY OF ITS EMPLOYEES, SHALL NOT HAVE CONTROL OF, OR BE RESPONSIBLE FOR, THE CONSTRUCTION MEANS AND METHODS, TECHNIQUES, PROCEDURES, SEQUENCES, ACTS OR OMISSIONS OF THE CONTRACTOR OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF INDIVIDUAL OR COMPANY TO SAFELY CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL PROVIDE NECESSARY BRACING AND SHORING AS REQUIRED UNTIL THE BUILDING'S STRUCTURAL SYSTEMS HAVE BEEN COMPLETED. THE STRUCTURE SHALL NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL RETAIN A QUALIFIED LICENSED STRUCTURAL ENGINEER WHO SHALL DETERMINE WHERE TEMPORARY SHORING/BRACING IS REQUIRED AND PROVIDE ITS DESIGN. PROVIDE TEMPORARY BRACING AS REQUIRED TO STABILIZE THE STRUCTURE AND ITS COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED ACCORDING TO THE CONTRACT DOCUMENTS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE STRUCTURE DURING CONSTRUCTION. WHERE CONSTRUCTION SEQUENCING AND STAGING ARE LIKELY TO CREATE OVERLOADING, THE CONTRACTOR SHALL RETAIN A QUALIFIED STRUCTURAL ENGINEER TO DETERMINE HOW TO TEMPORARILY SHORE AND SUPPORT THE OVERLOADED ELEMENTS IN A MANNER THAT DOES NOT EXCEED THE STRESS LIMITS OF THE ELEMENTS AND THE SUPPORTING FOUNDATION AS DEFINED BY THE APPLICABLE BUILDING CODES.

- 1. STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH BUILDING CODE SECTION 1704.6. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEMS AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED PER BUILDING CODE SECTION 110 OR SPECIAL INSPECTION IN ACCORDANCE WITH IBC SECTION 1705.
- 2. THE OWNER SHALL EMPLOY AN ENGINEER OR ARCHITECT LICENSED TO PERFORM STRUCTURAL OBSERVATION IN THE PROJECT JURISDICTION.
- 3. THE STRUCTURAL OBSERVER SHALL PROVIDE A LETTER TO BE SUBMITTED TO THE BUILDING OFFICIAL BEFORE THE FIRST SITE VISIT IDENTIFYING THE FREQUENCY AND EXTENT OF STRUCTURAL OBSERVATIONS.
- 4. THE STRUCTURAL OBSERVER SHALL SUBMIT A WRITTEN STATEMENT TO THE BUILDING OFFICIAL AT THE CONCLUSION OF ALL STRUCTURAL WORK THAT SITE VISITS HAVE OCCURRED AND THE OBSERVER SHALL REPORT ANY DEFICIENCIES THAT HAVE NOT BEEN RESOLVED.
- 5. THE CONTRACTOR SHALL SCHEDULE EACH OBSERVATION AT LEAST TWO WEEKS PRIOR TO DATE OF THE PROPOSED OBSERVATION.
- 6. THE STRUCTURAL OBSERVER SHALL PERFORM OBSERVATIONS AT THE FOLLOWING
- SIGNIFICANT CONSTRUCTION STAGES:
- CONSTRUCTION STAGES ELEMENTS/CONNECTIONS TO BE OBSERVED a) PRIOR TO CONCRETE PLACEMENT, OBSERVE FOUNDATION REINFORCEMENT AND ANCHOR

b) AT SUBSTANTIAL COMPLETION OF THE PRIMARY STRUCTURE. **SUBMITTALS**

1. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION/ERECTIONS/INSTALLATION. THESE ITEMS ARE IN ADDITION TO ANY SUBMITTAL REQUIREMENTS SPECIFIED ON THESE PLANS OR IN THE PROJECT

STRUCTURAL SUBMITTALS								
ITEM	PROD DATA	SHOP DWGS	TEST RESULTS	CALCS	DEFERREI SUBMITTA			
STRUCTURAL STEEL	-	YES	-	-	-			
CONCRETE MATERIALS	YES	-	YES	-	-			
BASEPLATE GROUT	YES	-	-	-	-			
COLD FORMED STEEL	YES	YES	-	YES	YES			
EPOXY AND EXP ANCHORS	YES	-	-	-	-			
ANCHORAGE FOR MECH/ELEC EQUIPMENT	-	YES	-	YES	YES			
MEP EQUIPMENT/CONDUIT SEISMIC BRACING	YES	YES	-	YES	YES			
ACOUSTICAL PANEL CEILING SEISMIC BRACING	YES	YES	-	YES	YES			

- 2. "PROD DATA" SUBMIT ADEQUATE DOCUMENTATION THAT THE PRODUCT PROPOSED TO BE USED MEETS THE REQUIREMENTS ON THESE PLANS AND THE PROJECT SPECIFICATIONS.
- 3. "SHOP DWGS" SUBMIT COMPLETE SHOP DRAWINGS SUFFICIENT TO SHOW QUANTITIES AND KINDS OF MATERIALS, METHODS OF ASSEMBLY, AND ALL DATA REQUIRED FOR FABRICATION, ERECTION, AND INSTALLATION. THE PURPOSE OF THESE DRAWINGS IS TO DEMONSTRATE THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT DOCUMENTED HEREIN. SUBMITTALS CONSISTING OF DRAWINGS TAKEN DIRECTLY FROM THESE PLANS WILL NOT BE APPROVED.
- 4. "TEST RESULTS" SUBMIT RESULTS FOR ANY TESTING REQUIRED BY BUILDING CODE OR THESE PLANS.
- 5. "CALCS" SUBMIT CALCULATIONS SIGNED AND SEALED BY A DESIGN PROFESSIONAL AUTHORIZED TO PERFORM WORK IN THE PROJECT JURISDICTION.

STUD

CONCRETE

ANCHOR ROD

EXPANSION

ANCHOR

ADHESIVE ANCHOR

SCREW

ANCHOR

BOLT

LAG

SDS

SCREW

SCREW

6. "DEFERRED SUBMITTAL" - SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. ONCE REVIEWED, CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL OF THE BUILDING DEPARTMENT IS RECEIVED.

PLAN VIEW

OREGON **EXPIRES**: 12/31/2022

WALLS (GENERIC BUILDING SHOWN)

27 PSF (COD MIN, INCLUDES RAIN-ON-SNOW)

-122.7934

ALLOWABLE BEARING PRESSURE: 2,500 PSF MINIMUM BEARING DEPTH: 18 INCHES BELOW GRADE

50 PSF/FT (ASSUMED) 35 PSF/FT (ASSUMED) COEFFICIENT OF FRICTION: 0.40

ENGINEER OR AN APPROVED TESTING LAB SHALL OBSERVE SOIL COMPACTION WORK.

GIVEN IN THE GEOTECHNICAL REPORT, AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

FOUNDATIONS AS REQUIRED.

7. AGGREGATE BASE (GRANULAR FILL) BELOW CONCRETE SLAB-ON-GRADE SHALL CONSIST OF MATERIAL

10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION. COMPLY WITH ALL

> S0.1 STRUCTURAL NOTES S0.2 STRUCTURAL NOTES S1.1 FOUNDATION PLAN S2.1 FLOOR FRAMING PLAN S3.1 TYPICAL CONCRETE DETAILS S3.2 SECTIONS AND DETAILS

SLAB/ROOF SLOPES UP EXISTING GRIDLINE **NEW GRIDLINE** SECTION NUMBER KEYNOTE NUMBER 1 \— DETAIL NUMBER \S100 / → SHEET NUMBER <u>ELEVATION</u> **ELEVATION NUMBER** SHEET NUMBER

S0.1 / NO SCALE

-ANGLE/LENGTH

-LONG LEG BACK TO BACK

-LONG LEG HORIZONTAL

-LONG LEG VERTICAL

-LONG SLOTTED HOLE

-LUMBER

-LOCATION

-MAXIMUM

-MEMBER

-MECHANICAL

-MEZZANINE

-MANHOLE

-MIDDI F

-MINIMUM

-NORMAI

-NEAR SIDE

-METAL

-MACHINE BOLT

-MANUFACTURE(R/D)

RECOMMENDATIONS

-MANUFACTURER'S

-MISCELLANEOUS

-NOT APPLICABLE

-NOT IN CONTRACT

-NOT IN PERMIT

-NOT TO SCALE

-ON CENTER

-OUTSIDE DIAMETER

-OUTSIDE FACE OF STUDS

-POWER ACTUATED FASTENER

-PENETRATE/PENETRATION

-PARTIAL JOINT PENETRATION

-POUNDS PER SQUARE FOOT

-POUNDS PER SQUARE INCH

-REINFORCED CONCRETE

-POST TENSIONED/PRESSURE

-OUTSIDE FACE

-OUTSIDE LAYER

-OPPOSITE HAND

-PARALLEL/PARAPET

-PRECAST CONCRETE

-OPFNING

-OPPOSITE

-PILASTER

-PLATE

-PLACES

TREATED

-PURLINS

-RADIUS

-ROOF DRAIN

-REFERENCE

-REINFORCING

-ROUGH OPENING

-ROOFTOP UNIT

-REQUIRED

-PREFABRICATED

-PANEL

-OVERSIZED

LLBB

LLH

LSH

MECH

MEZZ

MTL

MFR

MISC

NORM

NTS

OFS

OPH

OPNG

PLCS

PREFAB

REQD

MRR RFC

-EACH FACE

-ELEVATION

-ELECTRICAL

-EDGE OF SLAB

-EDGE OF DECK

-EQUIPMENT

-EACH SIDE

-ESCALATOR

-EACH WAY

-EXPANSION

-EXTERIOR

-FINISH(ED)

-FACE OF xxx

-FACE OF CONCRETE

-FIREPROOF(ING)/FIRE

-FIRE RETARDANT TREATED

-GLUE LAMINATED TIMBER

-HOLLOW STRUCTURAL SECTIONS

- HEATING, VENTILATION AND

AIR CONDITIONING

-INSIDE DIAMETER

-ISOLATION JOINT

-INSIDE LAYER

-INFORMATION

-1,000 POUNDS

-KEYWAY

-INSULATE/INSULATION

-KIPS PER SQUARE INCH

-INCHES

-INTERIOR

-JOIST

-JOINT

-INSIDE FACE

-FACE OF FINISH

-FACE OF STEEL

PROTECTION

-FAR SIDE

-FOOT, FEET

-GAGE/GAUGE

-GALVANIZED

-GRADE BEAM

-GYPSUM BOARD

-HEADER

-GENERAL

-HIGH

-HANGER

-HEIGHT

-HOLDDOWN

-HORIZONTAL

-FOOTING

-FLANGE

-FLOOR

-EQUALLY SPACED

-ELEVATOR

-EQUAL

ELEV

EMBED

EOS

EOD

EQUIP

ESC

EXP

EXT

FLG

FLR

FOC

FOS

GALV

GEN

GLB

GYP BD

BEAM

HGR

HLDN

HORIZ

HSS

HVAC

INFO

INSUL

K / KIP

KSI

KWY

FO xxx

EQL SPCD

-EXPANSION JOINT

-EMBEDMENT/EMBEDDED

-SLIP CRITICAL

-STRUCTURAL ENGINEER OF

-SHORT LEG BACK TO BACK

-SEISMIC FORCE RESISTING

-SHEET METAL SCREW

-SHORT SLOTTED-HOLE

-STAINLESS STEEL

-SCHEDULE

-SECTION

RECORD

SYSTEM

-SHEATHING

-SPECIFICATION

-SHEET

-SIMII AR

-SPACES

-SQUARE

-STANDARD

-STIFFENER

-STEEL JOIST

-STRUCTURAL

-TAPERED

-SYMMETRICAL

-THROUGH BOLT

-TO BE REMOVED

-TOP OF xxx

-TOP OF CONCRETE

-TOP OF FOOTING

-TOP OF STEEL

-TOP OF SLAB

-TOP OF WALL

-TRANSVERSE

-TOP AND BOTTOM

-VERIFY IN FIELD

-VENEER

-VERTICAL

-WOOD

-WFIGHT

-WITH

-YARD

-WITHOUT

-WIDE/WIDTH

-WIDE FLANGE

-WHERE OCCURS

-TONGUE AND GROOVE

-UNLESS OTHERWISE NOTED

-WATERPROOFING/WORK POINT

-WELDED HEADED STUD

-WELDED WIRE FABRIC

-TREATED

-TYPICAL

-TOP OF GRADE BEAM

-TENSION/COMPRESSION CORD

-THICK(NESS)

-THREADED BAR COUPLER

-STEEL

SCHED

SECT

SEOR

SFRS

SHTHG

SPEC

SPCS

SSH

SST

STD

STIF

STL

STL JST

STRUCT

SYMM

TPRD

TBC

TBR

THK

TOF

TOS

TOSL

TOW

TRTD

T&G

VIF

VNR

VERT

WD

WO

W/O

WF

TRANSV

TOGB

TO xxx, T/xxx

-AND

-DEGREE

-DIAMETER

-EXISTING

-NUMBER

-POUND

-ABOVE

-ANCHOR BOLT

-ADDITIONAL

-ADHESIVE

-ADJACENT

-ALTERNATE

-APPROXIMATE

-AS REQUIRED

-ARCHITECTURAL

-ALUMINUM

-ASPHALT

-ASSEMBLY

-BASE PLATE

-BUILDING

-BFI OW

-BEAM(S)

-BOTTOM

-BEARING

-BOTH SIDES

-BETWEEN

-CHANNEL

-CANTILEVER

-CEMENT PLASTER

-CAST-IN-PLACE

-CENTER LINE

-CLEAR(ANCE)

MATERIAL

-COLUMN

-CONCRETE

-CONNECTION

-CONTRACTOR

-COORDINATE

-CENTER(ED)

-DEPTH/DEEP

-DEMOLITION

-DIMENSION

-DISTANCE

-DRAWING

-DOWEL

-DOWN

-DOUBLE

-DEGREE

-DETAIL

-DEMAND CRITICAL

-DIAGONAL/DIAGRAM

-DEVELOPMENT/DEVELOPER

-COUNTER SUNK

-BOTTOM OF xxx

-BUCKLING RESTRAINED BRACE

-CONTROLLED DENSITY FILL

-CONSTRUCTION JOINT/CONTROL

-COMPLETE JOINT PENETRATION

-CONTROLLED LOW STRENGTH

-CONCRETE MASONRY UNIT

-BLOCKING

-ABOVE FINISHED SLAB

%%D, DEG

%%C, DIA

(E), EXIST

#, NO

#, LB

ADDL

ADH

ADJ

AFS

ALUM

ARCH

ASPH

ASMBY

BASE PI

BLKG

BI W

BM(S)

BRB

BTWN

CANT

CEM PLAS

CDF

CLSM

COL

CONC

CONN

CONSTR

COORD

CSK

CTR

DEMO

DEV

DIAG

DIST

DWG

DWL

APPROX

SLAB/ROOF SLOPES DOWN → SLAB/ROOF STEPS (-0'-8")

F5.0 — FOOTING TYPE MARK TF5.0 — FOOTING TYPE MARK TOP OF FOOTING ELEVATION FOOTING TYPE MARK WALL FOOTING BELOW SLAB-ON-GRADE TOP OF FOOTING ELEVATION AT HIGH SIDE OF STEP - FOOTING STEP LOCATION TOP OF FOOTING ELEVATION

- FOOTING TYPE MARK THICKENED SLAB POURED MONOLITHICALLY WITH SLAB-ON-GRADE AT LOW SIDE OF STEP

4C FOOTING SYMBOLS & SCHEDULE MARKS

- ISOLATED COLUMN

FOOTING BELOW

SLAB-ON-GRADE

4D CONNECTOR SYMBOLS

THICKENED SLAB COLUMN

MONOLITHICALLY WITH

FOOTING POURED

SLAB-ON-GRADE

(4B) MISCELLANEOUS PLAN SYMBOLS

\ S0.1 / NO SCALE

S0.1 / NO SCALE

S

100% CD

74-21102-00

NOTES

STRUCTURAL

02.26.2021

REVISIONS

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL DESIGN, DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE AISC STEEL CONSTRUCTION MANUAL LOAD AND RESISTANCE FACTOR DESIGN AND THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- 2. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO AISC REQUIREMENTS AND THE PROJECT SPECIFICATIONS.
- STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION OF ELEMENTS AND CONNECTIONS MARKED 'SFRS' SHALL CONFORM TO AISC-341.
- 4. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED ON THE STRUCTURAL
- 4. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS:
- DRAWINGS:
- A. WIDE FLANGE SHAPES ASTM A992, Fy=50 KSI
- B. COLUMN BASE PLATES ASTM 572, GRADE 50 (Fy = 50 KSI)
 C. PLATES AND BARS ASTM A36, Fy=36 KSI
- D. CHANNELS AND ANGLES

 ASTM A572 GRADE 50 WHERE NOTED AS GRADE 50
 ASTM A36, Fy=36 KSI
- E. HOLLOW ROUND SECTIONS
 F. HOLLOW RECTANGULAR SECTIONS
 ASTM A500C, Fy=46 KSI
 ASTM A500C, Fy=50 KSI
 ASTM A53B, Fy=35 KSI
- H. COLUMN ANCHOR RODS ASTM F1554 GRADE 55 (S1)

 I. THREADED RODS FOR EPOXY ANCHORAGE ASTM A193 GRADE B7
- J. CONNECTION BOLTS FOR EPOXY ANCHORAGE ASTM A193 GRADE B7

 J. CONNECTION BOLTS F3125 GRADE A325N (7/8" DIA)

 K. WELDING ELECTRODES E70XX
- K. WELDING ELECTRODES E70XX
 L. WELDED HEADED STUDS (WHS) ASTM A108, Fu=65 KSI, TYPE B
 M. WELDED THREADED STUDS (WTS) ASTM A108, Fu=65 KSI, TYPE B
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, AND TAPERS OF UNEQUAL PARTS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF A METHOD TO TRANSFER GRAVITY AND LATERAL LOADS FROM NON-STRUCTURAL ITEMS OCCURRING BETWEEN STRUCTURAL FRAMING TO ADJACENT FRAMING MEMBERS. IF STRUCTURAL FRAMING CONSISTS OF JOISTS OR JOIST GIRDERS, SPECIAL PROVISIONS APPLY. SEE STEEL JOIST AND JOIST GIRDER NOTES FOR FURTHER INFORMATION.
- 7. STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A123. GALVANIZE BOLTS AND SIMILAR THREADED FASTENERS EXPOSED TO WEATHER IN ACCORDANCE WITH ASTM A153, CLASS C AND D, AS APPLICABLE. ALL FIELD WELDS EXPOSED TO WEATHER SHALL BE COATED WITH BRUSH APPLIED ZINC-RICH PAINT COMPLYING WITH ASTM A780 (GALVACON OR EQUIVALENT).
- 8. PROTECT ALL STEEL BELOW GRADE BY ENCASING IN CONCRETE OR PAINTING WITH BITUMASTIC PAINT.
- 9. COLUMN ANCHOR RODS: PROVIDE HEAVY HEX NUTS AND WASHERS COMPLYING WITH THE REQUIREMENTS OF TABLE 14-2 IN THE AISC STEEL CONSTRUCTION MANUAL UNLESS THICKER AND/OR LARGER WASHERS ARE NOTED ON THE DRAWINGS. HOLE DIAMETER IN WASHERS SHALL BE THE ANCHOR ROD DIAMETER + 1/16 INCH. IN LIEU OF HEADED RODS, THREADED RODS WITH A HEAVY HEX NUT FULLY ENGAGED AND TACK WELDED TO THE EMBEDDED END MAY BE USED.
- 10. COLUMN ANCHOR BOLT HOLES SHALL BE OVERSIZED IN ACCORDANCE WITH THE FOLLOWING:
- A. ROD DIAMETERS 3/4 INCH TO 1 INCH 5/16 INCH OVERSIZE
 B. ROD DIAMETERS 1 INCH TO 2 INCH 1/2 INCH OVERSIZE
- C. ROD DIAMETERS OVER 2 INCH 1 INCH OVERSIZE
- 11. GROUT USED UNDER COLUMN BASE PLATES SHALL BE CEMENT BASED, NON-SHRINK, NON-METALLIC GROUT. THE GROUT SHALL EXHIBIT NO SHRINKAGE IN ACCORDANCE WITH ASTM C827 AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 7,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C109.
- 12. BASE PLATE CONNECTIONS ARE NOT DESIGNED TO PROVIDE STABILITY OF COLUMNS DURING ERECTION. COLUMNS SHALL BE TEMPORARILY BRACED BY THE ERECTOR PRIOR TO RELEASE OF THE COLUMN FROM THE HOISTING EQUIPMENT.
- 13. MINIMUM CONNECTIONS: ALL BOLTED CONNECTIONS SHALL BE MADE WITH A MINIMUM OF TWO 7/8 INCH DIAMETER ASTM A325 BOLTS IN SINGLE SHEAR BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE. IN NO CASE SHALL THE LENGTH OF A CONNECTION BE LESS THAN ONE HALF OF THE TEE DIMENSION OF THE BEAM WEB. ALL BOLTS IN BEARING TYPE CONNECTIONS SHALL BE TIGHTENED TO AT LEAST THE SNUG TIGHT CONDITION AS DEFINED BY AISC. BOLTS IN CONNECTIONS THAT ARE DESIGNATED AS SLIP CRITICAL, FULLY TENSIONED, OR SUBJECT TO TENSION LOADS, SHALL BE FULLY TENSIONED USING LOAD INDICATING WASHERS OR TENSION CONTROL BOLTS. ALL BEAM-TO-BEAM AND BEAM-TO-COLUMN CONNECTIONS SHALL BE SIMPLE OR PARTIALLY-RESTRAINED (PR) MOMENT CONNECTIONS IN ACCORDANCE WITH AISC SPECIFICATION B3.6. ALL STEEL BEAM CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE DESIGNED BY THE STRUCTURAL STEEL FABRICATOR BASED ON THESE NOTES.
- 14. BOLTED CONNECTIONS OF MEMBERS MARKED 'SFRS' SHALL BE PRETENSIONED AND SHALL MEET THE REQUIREMENTS FOR A CLASS A FAYING SURFACE. CONNECTIONS AT THESE MEMBERS SHALL BE MADE USING STANDARD HOLES IN ALL PLYS.
- 15. HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN THE OUTER PLY OF A CONNECTION. A PLATE WASHER AT LEAST 5/16 INCH THICK WITH STANDARD HOLES SHALL BE INSTALLED OVER LONG SLOTTED HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.
- 16. TENSION CONTROL BOLTS MAY BE SUBSTITUTED FOR THE BOLTS SPECIFIED IN THESE PLANS AT THE DISCRETION OF THE CONTRACTOR. ASTM F3125 GRADE F1852 BOLTS MAY BE SUBSTITUTED FOR ASTM F3125 GRADE A325 BOLTS AND ASTM F3125 GRADE 2280 BOLTS MAY BE SUBSTITUTED ASTM F3125 GRADE A490 ROLTS
- 17. A449, A193 GRADE B7, OR F1554 GRADE 105 THREADED ROD SHALL BE USED WHERE THRU BOLT LENGTH DOES NOT ALLOW FOR STANDARD F3125 GRADE A325 BOLTS. PROVIDE ASTM A563 NUTS WITH MATCHED WASHERS
- 18. USE DOUBLE NUTS OR SINGLE NUT AND PEENED THREADS AT BOLTED CONNECTIONS WITH LONG SLOT
- 19. WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS. ALL WELDS SHALL BE PREQUALIFIED AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS USING ASTM E70 SERIES ELECTRODES FOR SHOP WELDING A36 STEEL, AND E70 SERIES LOW HYDROGEN ELECTRODES FOR ALL WELDING OF HIGH STRENGTH STEELS AND FOR ALL FIELD WELDING.
- 20. ONLY PREQUALIFIED WELDS AS DEFINED BY AWS SHALL BE USED. WELDS SHOWN ON THE DRAWINGS ARE THE MINIMUM SIZE. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELD SIZE SHALL BE 3/16 INCH. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS.
- 21. WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1. FILLET WELDS NOT SPECIFIED AS TO LENGTH SHALL BE CONTINUOUS.
- 22. PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT.
- 23. ALL FILLET WELDS BY EACH WELDER SHALL BE VISUALLY INSPECTED. ALL COMPLETE PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING.
- 24. IN ALL CASES, SUPPORT OF THE METAL DECK AROUND COLUMN CLOSURES AND SCREED PLATES AROUND OPENINGS AND SLAB EDGES SHALL BE PROVIDED BY THE CONTRACTOR.
- 25. SHEAR STUDS SHALL BE 3/4-INCH DIAMETER UNLESS NOTED OTHERWISE AND AUTOMATICALLY END WELDED IN THE FIELD THROUGH THE METAL DECK TO STEEL BEAMS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. STUD LENGTHS AFTER WELDING SHALL BE AS SHOWN ON THE DRAWINGS. STEEL STUD MATERIAL, WELDING, AND INSPECTION SHALL BE IN ACCORDANCE WITH AWS D1.1.
- 26. BEAMS AND GIRDERS SHALL NOT SUPPORT PIPING LARGER THAN 10" DIAMETER WITHOUT THE REVIEW OF THE STRUCTURAL ENGINEER OF RECORD.

<u>CONCRETE</u>

- 1. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED, AND PLACED IN ACCORDANCE WITH IBC SECTION 1905 AND ACL 301
- 2. THE CONCRETE MIX TABLE SHOWN BELOW SHALL APPLY TO ALL CONCRETE MIX DESIGNS USED ON THIS PROJECT. MIX DESIGN SUBMITTALS SHALL BE IDENTIFIED FOR INTENDED STRUCTURAL USE AND SUBMITTED TO THE OWNER'S REPRESENTATIVE AND STRUCTURAL ENGINEER FOR REVIEW TWO WEEKS PRIOR TO PLACING ANY CONCRETE.
- 3. ALL CONCRETE MIX DESIGNS SHALL BE PROPORTIONED IN ACCORDANCE WITH SECTION 5.3 (FIELD EXPERIENCE AND/OR TRIAL MIXTURES) OF ACI 318. SUBMIT MIX DESIGN FOR EACH CLASS OF CONCRETE. IF A STANDARD DEVIATION ANALYSIS IS USED, THE CONCRETE SHALL ACHIEVE AN AVERAGE STRENGTH IN ACCORDANCE WITH TABLE 5.3.2.2 OF ACI 318. SUBMITTALS MADE WHICH DO NOT CONFORM TO ACI 318
- SECTION 5.3 SHALL BE REJECTED.

SEE ADDITIONAL REQUIREMENTS THIS SHEET FOR SLAB ON GRADE

- 4. SCHEDULE CEMENT CONTENT IS THE MINIMUM TOTAL CEMENTITIOUS MATERIALS CONTENT INCLUDING PORTLAND CEMENT AND FLY ASH.
- 5. FLY ASH SHALL CONFORM TO ASTM C618, TYPE C OR F. PERCENTAGE SCHEDULED IS BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL INCLUDING ASTM C150, C595, C845, AND C1157 CEMENT. DO NOT USE FLY ASH IF CONTENT WITHIN THE PERCENTAGES SHOWN CANNOT BE ACHIEVED.
- 6. WATER-REDUCING ADMIXTURES CONFORMING TO ASTM C494 MAY BE INCORPORATED IN THE CONCRETE MIX DESIGNS AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CALCIUM CHLORIDE OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.
- 7. AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN ALL CONCRETE MIXES FOR WORK THAT IS EXPOSED TO WEATHER. WHERE ENTRAINED AIR IS NOT SCHEDULED, DO NOT ALLOW THE AIR CONTENT OF SLABS TO EXCEED 3% NATURALLY. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE END OF THE PLACING HOSE.
- 8. SCHEDULED SLUMP IS THE MAXIMUM ALLOWED AND SHALL BE ACHIEVED PRIOR TO ADDING ANY WATER REDUCING ADMIXTURES OR PLASTICIZERS.
- 9. LABORATORY TESTING WILL BE REQUIRED IN ACCORDANCE WITH ASTM C31. PERFORM COMPRESSION TEST PER ASTM C39; AIR CONTENT TEST PER ASTM C138 (GRAVIMETRIC METHOD), ASTM C173 (VOLUMETRIC METHOD), OR ASTM C231 (PRESSURE METHOD); SLUMP TEST PER ASTM C143.
- LABORATORY SHALL TEST THE NUMBER OF CYLINDERS SPECIFIED BELOW FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF:
 2 AT 7 DAYS FOR INFORMATION
 2 AT 28 DAYS FOR ACCEPTANCE
- 11. REFER TO DRAWINGS OF OTHER DISCIPLINES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON STRUCTURAL DRAWINGS.
- 12. WHEN RUN IN SLABS, ELECTRICAL CONDUIT SHALL BE RUN AT MID-DEPTH OF THE SLAB AND CONDUIT SIZE SHALL NOT EXCEED 33 PERCENT OF THE SLAB DEPTH. NO CONDUIT SHALL BE PLACED IN SLABS WITH ACTUAL CONCRETE THICKNESS LESS THAN 3 INCHES, NOT INCLUDING METAL DECK DEPTH. THERE SHALL BE A MINIMUM OF 3 INCHES OF CLEAR SPACE BETWEEN CONDUITS. ALUMINUM CONDUIT IS PROHIBITED. ADDITIONAL REINFORCEMENT, #3 AT 12" OC, SHALL BE PLACED PERPENDICULAR TO THE CONDUIT ABOVE AND BELOW THE CONDUIT. THE ADDED REINFORCING SHALL EXTEND 1' 0" BEYOND THE CONDUITS ON BOTH SIDES.
- 13. <u>REINFORCING STEEL MATERIALS:</u> DEFORMED BARS
- DEFORMED BARS

 SPECIAL DUCTILE QUALITY WELDABLE DEFORMED BARS

 SMOOTH WELDED WIRE FABRIC (WWF)

 ASTM A706, GRADE 60 LOW ALLOY

 ASTM A185 (Fy = 65,000 PSI)
- 14. SPECIAL DUCTILE QUALITY (SDQ) REBAR SHALL BE USED IN DUCTILE FRAME MEMBERS AND SHEAR WALL BOUNDARY MEMBERS. GRADE 60 REINFORCEMENT COMPLYING WITH ACI 318 SECTION 21.1.5.2 SHALL BE PERMITTED.
- 15. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
- 16. ALL REINFORCEMENT SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING CONCRETE PLACEMENT. REINFORCING PLACEMENT SHALL BE APPROVED BY THE ARCHITECT OR THEIR AUTHORIZED REPRESENTATIVE BEFORE CONCRETE IS PLACED.
- 17. LAP REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE 'Ls' SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE. MECHANICAL OR WELDED BUTT SPLICES SHALL BE SUBJECT TO STRUCTURAL ENGINEER'S APPROVAL. MECHANICAL SPLICES, WHERE ALLOWED ON THE PLANS, SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE SPLICED BARS IN BOTH TENSION AND COMPRESSION. LAP SPLICES OF BOTTOM BARS SHALL OCCUR AT A SUPPORT. LAP SPLICES OF TOP STEEL SHALL OCCUR AT MID SPAN.
- 18. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY DETAILED AS SUCH OR APPROVED BY THE STRUCTURAL ENGINEER.
- 19. REINFORCING BARS SHALL NOT BE WELDED OR TACK WELDED TO OTHER BARS OR TO PLATES, ANGLES, ETC. UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS DI.4. WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS QUALIFIED FOR WELDS USING APPROVED ELECTRODES.
- 20. CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE: CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.......3"

EXPOSED TO EARTH OR WEATHER

#5 OR SMALLER......1 1/2"

#6 OR LARGER......2"

NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND SLABS, WALLS, JOISTS

- 21. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING FOR ALL CONCRETE WALLS DURING CONSTRUCTION AND UNTIL LATERAL SUPPORTS AND DIAPHRAGMS HAVE BEEN ATTACHED AND CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH. BACK FILLING SHALL NOT OCCUR UNTIL PERMANENT LATERAL RESTRAINTS ARE INSTALLED IN THEIR ENTIRETY.
- 22. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALLS, ETC UNLESS NOTED OTHERWISE.
- 23. COORDINATE CONCRETE EQUIPMENT PAD AND HOUSE KEEPING PAD LOCATIONS AND DIMENSIONS WITH ARCH, MECHANICAL, ELECTRICAL, PLUMBING, AND OWNER REQUIREMENTS.
- 24. STRUCTURAL RIGID FOAM SHALL CONFORM TO ASTM D6817 AND THE PROJECT SPECIFICATIONS. UNLESS OTHERWISE NOTED, FOAM SHALL BE EPS22 WITH 7.3 PSI CAPACITY AT 1% DEFORMATION.

100% CD 02.26.2021 REVISIONS

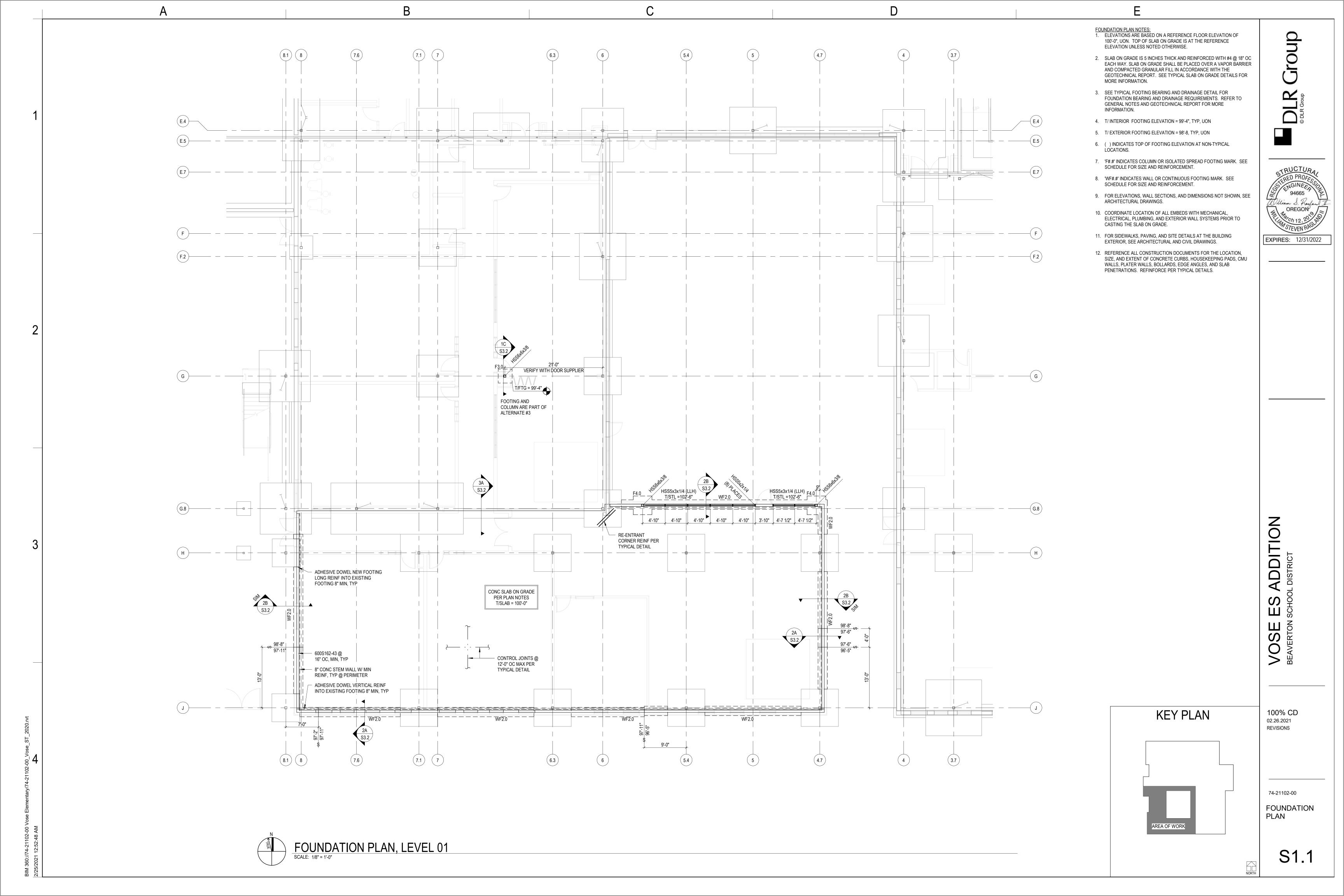
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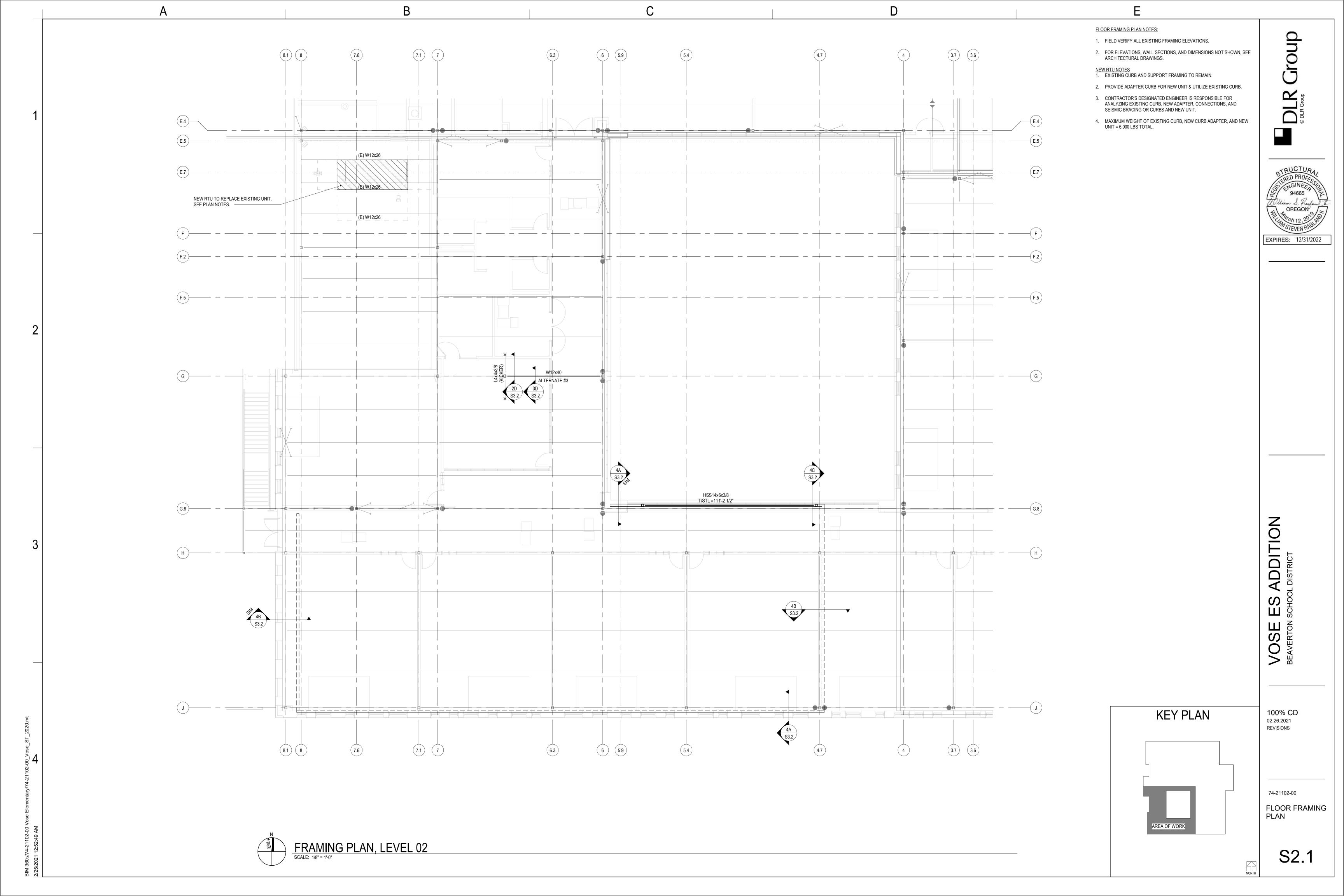
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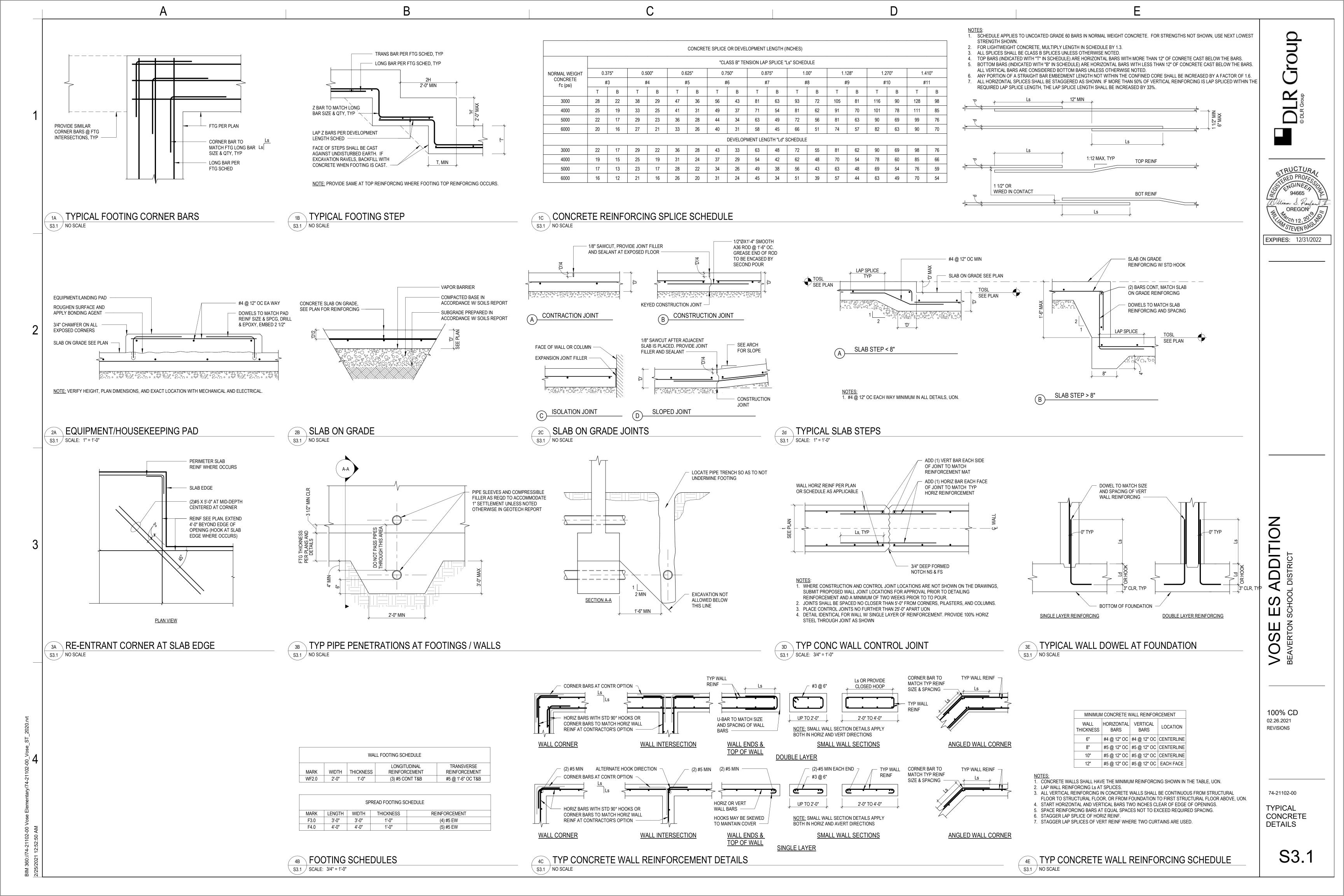
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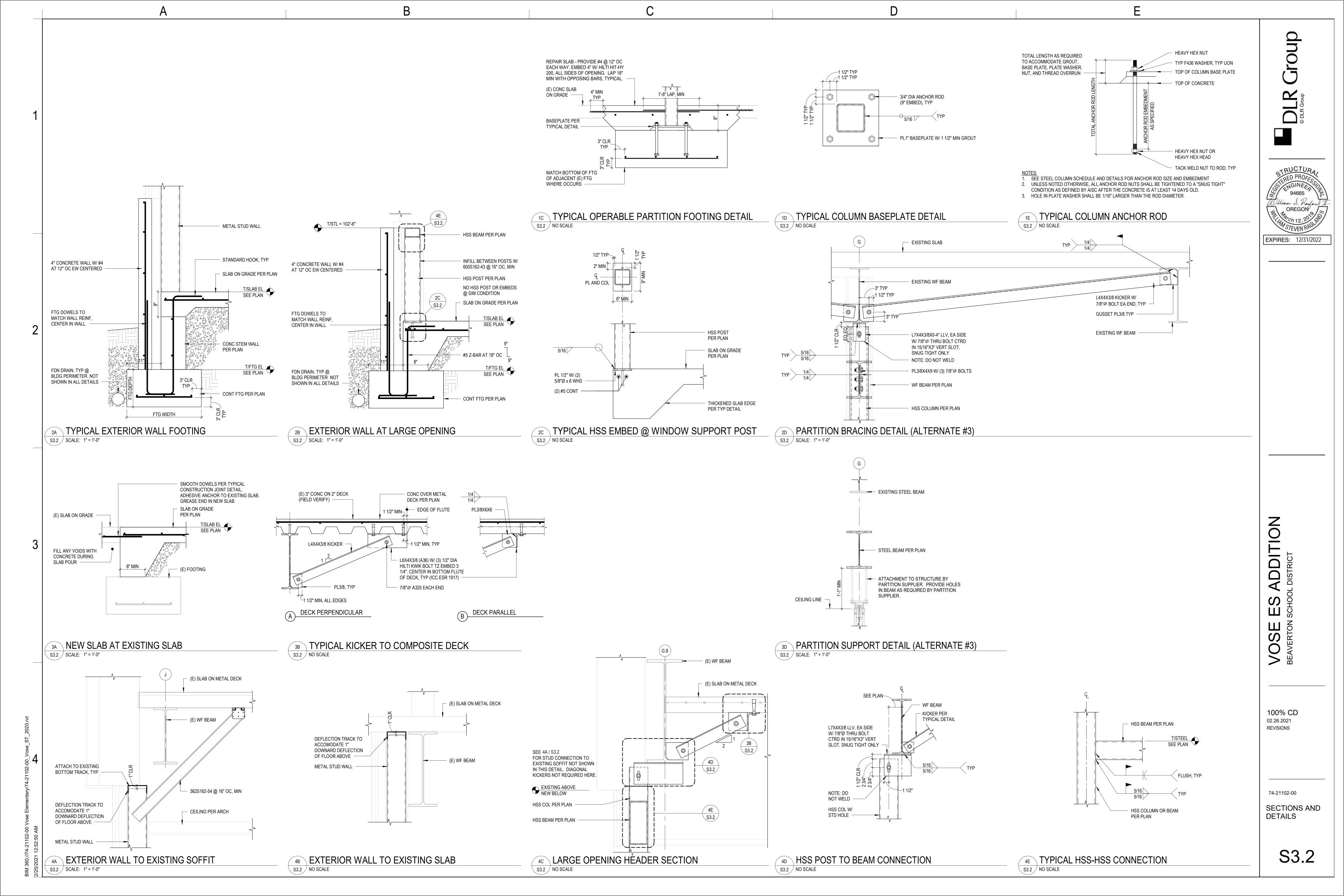
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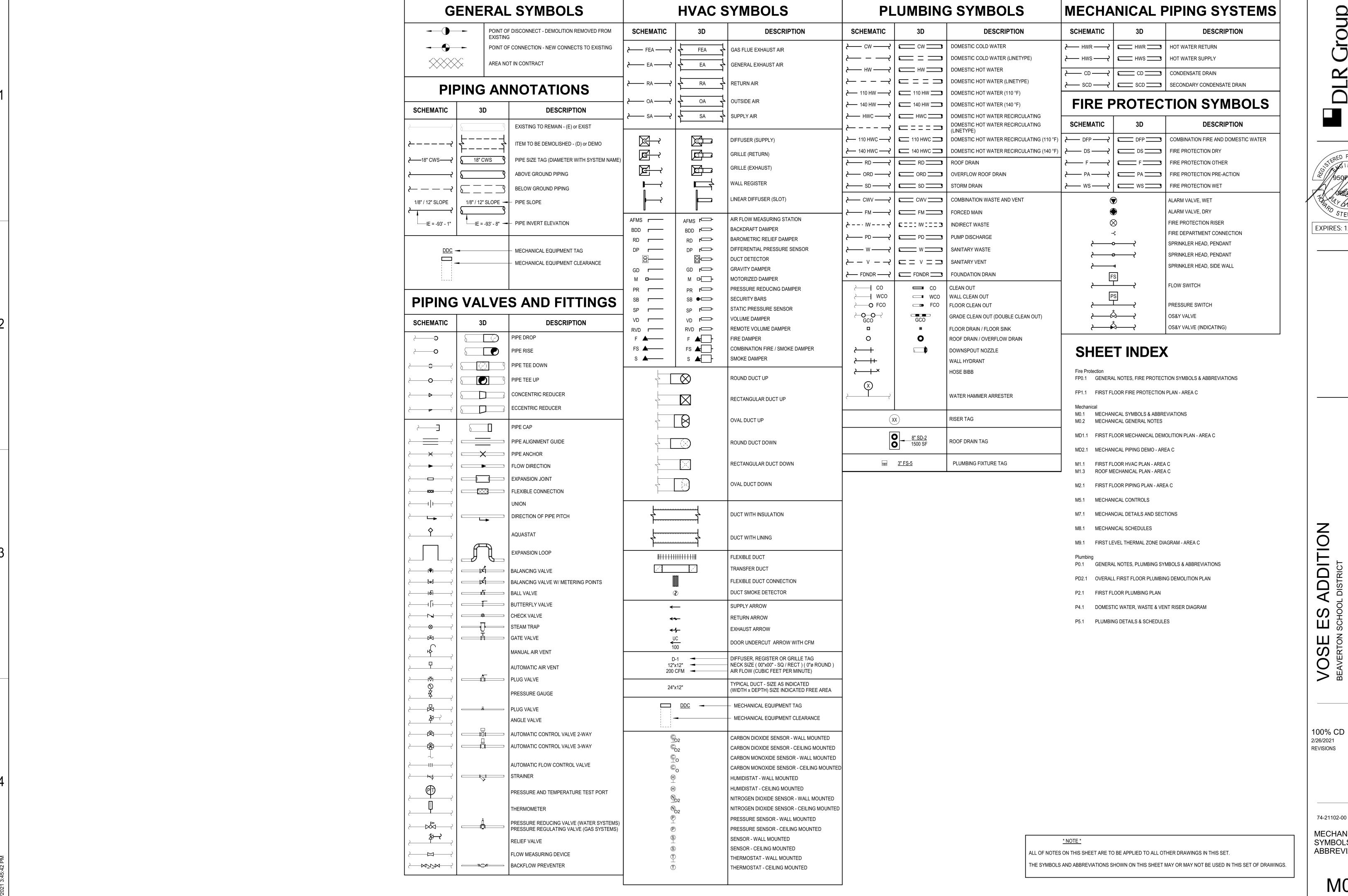
STRUCTURAL



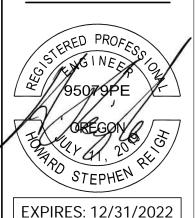








Group DLR



2/26/2021 REVISIONS

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MECHANICAL SYMBOLS & **ABBREVIATIONS**

GENERAL NOTES

- 1 REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.
- 2 THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.
- 3 THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
- 4 WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
- 5 COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
- 6 THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS
- 7 FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
- 8 LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
- 9 ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
- 10 LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
- 11 FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. REFER TO
- 12 PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
- 13 ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL
- 14 REFER TO PLUMBING SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.
- 15 PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
- 16 FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
- 17 INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
- 18 LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
- 19 INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

GENERAL HVAC NOTES

- 1 SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
- 2 CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.
- 3 REFER TO PIPING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
- 4 CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL. STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
- 5 PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
- 6 ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
- 7 THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE

GENERAL PLUMBING NOTES

- 1 FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
- 2 PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE.
- 3 PITCH UNDERFLOOR STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/4" PER FOOT UNLESS OTHERWISE
- 4 FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
- 5 ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
- 6 WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
- 7 PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.

GENERAL FIRE PROTECTION NOTES

- 1 PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY
- 2 THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- 3 THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- 4 PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- 5 THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
- 6 REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- 7 DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER
- 8 ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- 9 THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- 10 AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE
- 11 AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- 12 AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.

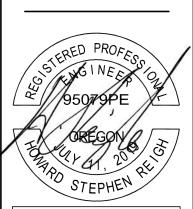
OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB

13 SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

SHALL BE PROVIDED AT THE DRAIN VALVE.

- 14 FLOW TEST DATA FROM #/#/# INDICATES THE FOLLOWING: STATIC PRESSURE # PSI. RESIDUAL PRESSURE: # PSI AT ## GPM. THE HYDRANTS TESTED ARE APPROXIMATELY ### FEET AWAY FROM THE CENTER OF THE SITE LOCATED OFF THE ##" WATER MAIN IN ## STREET AT AN ELEVATION OF ### FEET ABOVE SEA LEVEL. SEE CIVIL PLANS FOR HYDRANT LOCATION. THE CONTRACTOR SHALL PERFORM A FIRE FLOW TEST IN ACCORDANCE WITH NFPA 291 TO VERIFY THE FLOW TEST DATA GIVEN ABOVE. THE DATA GIVEN ABOVE SHALL BE THE BASIS OF DESIGN UNLESS THE AVAILABLE PRESSURE OR FLOW HAS DECREASED. NOTIFY OWNERS REPRESENTATIVE IF FLOW TEST DATA DIFFERS FROM THE DATA ABOVE. A FIRE PROTECTION ENGINEER OR AN ENGINEER EXPERIENCED IN WATER FLOW TESTING SHALL PERFORM OR WITNESS THE REQUIRED FLOW TESTING AND SIGN THE REPORT PRIOR TO THE FIRST SPRINKLER SYSTEM SUBMITTAL.
- 15 ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT, SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH
- 16 THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- 17 THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.





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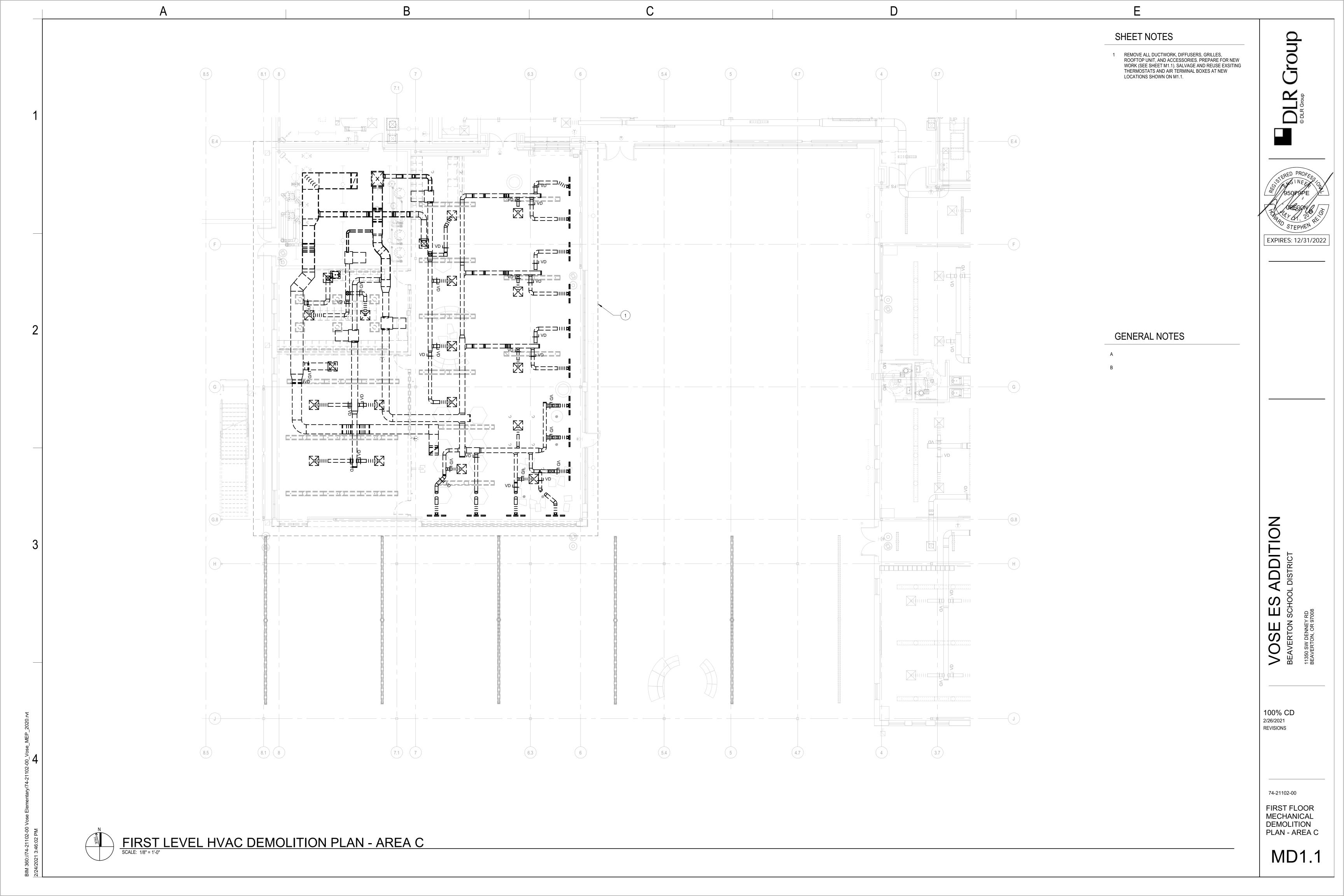
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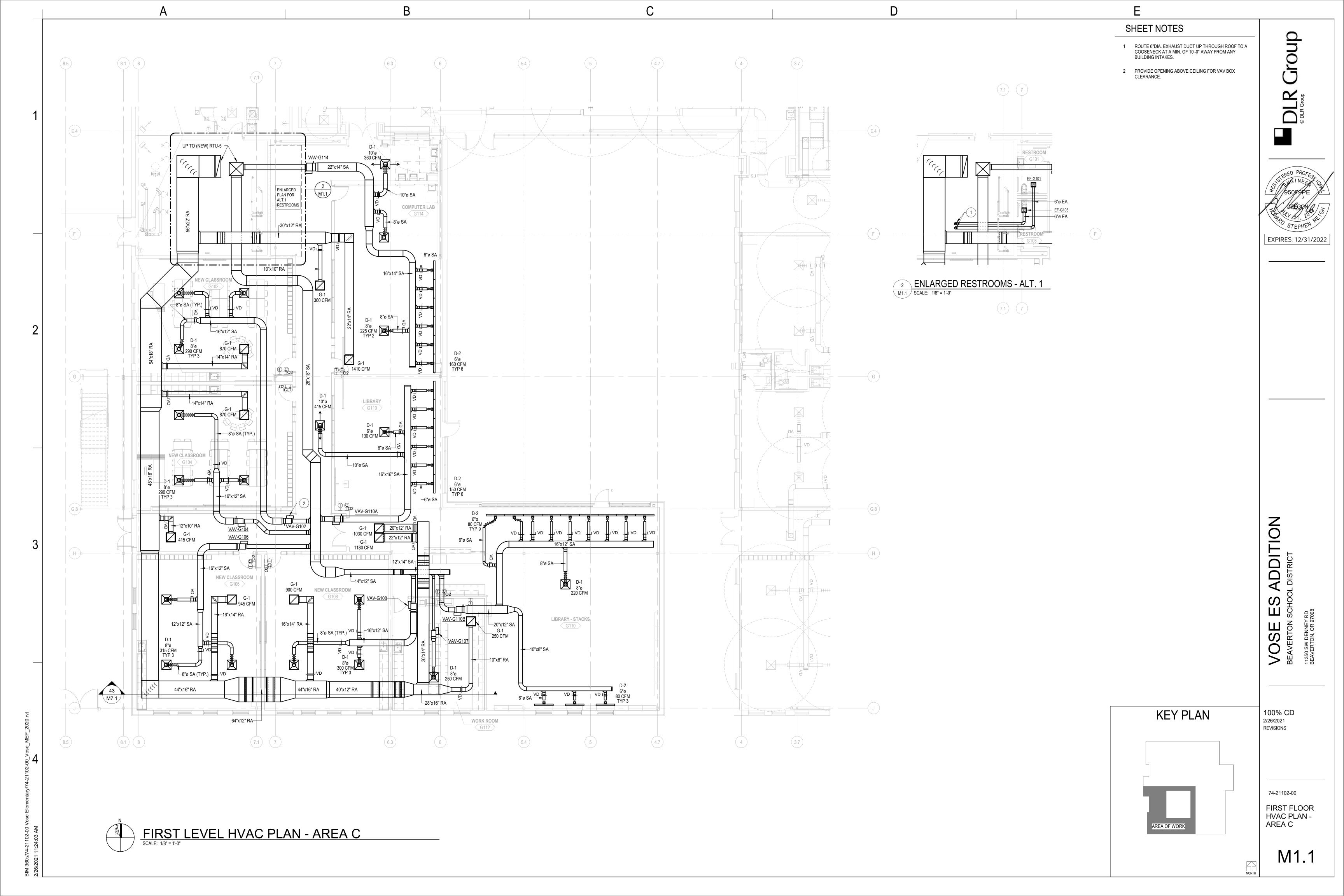
MECHANICAL GENERAL NOTES

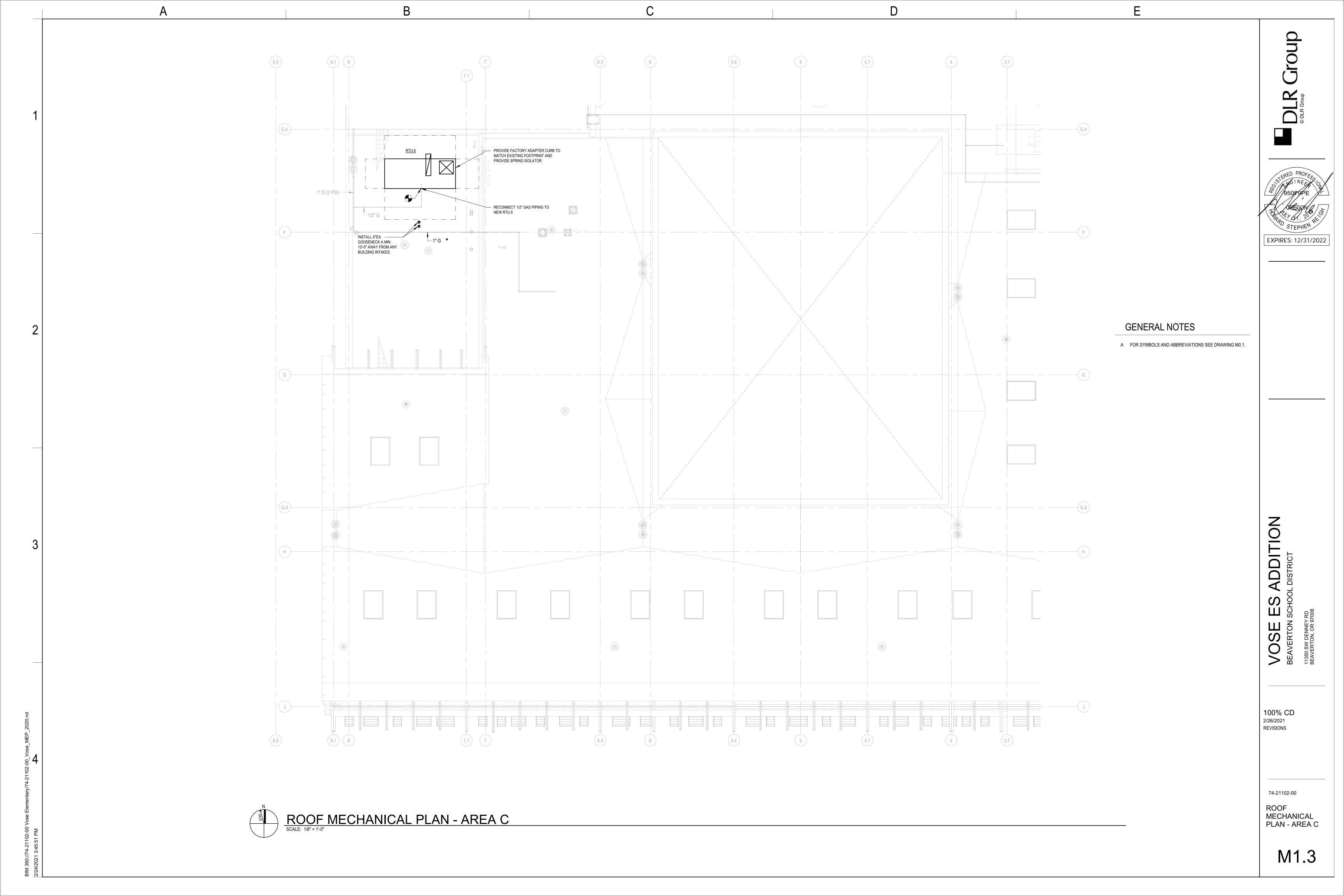
ALL OF NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

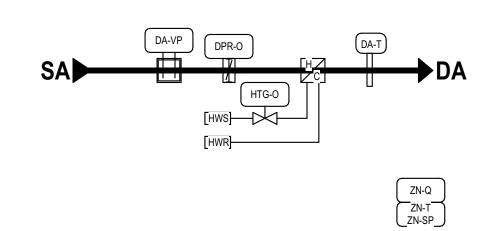












OCCUPIED MODE:
WHEN THE ZONE TEMPERATURE (ZN-T) IS BETWEEN THE OCCUPIED HEATING (EFFHTG-SP) AND COOLING (EFFCLG-SP) SETPOINTS (INSIDE OF THE BIAS), THE PRIMARY AIR DAMPER (DPR-O) WILL BE AT THE MINIMUM CFM (SA-F) AND THERE WILL BE NO MECHANICAL HEATING. ON A RISE IN ZONE TEMPERATURE (ZN-T) ABOVE THE COOLING SETPOINT (EFFCLG-SP), THE PRIMARY AIR DAMPER (DPR-O) WILL INCREASE THE CFM (SA-F) AND THERE WILL BE NO MECHANICAL HEATING. ON A DROP IN ZONE TEMPERATURE (ZN-T) BELOW THE HEATING SETPOINT (EFFHTG-SP), THE REHEAT COIL WILL BE USED TO MAINTAIN THE ZONE TEMPERATURE (ZN-T) AND THE DAMPER (DPR-O) IS CONTROLLED TO PROVIDE A MINIMUM CFM (SA-F). WHEN ADDITIONAL HEATING IS REQUIRED AFTER DISCHARGE AIR TEMPERATURE REACHES THE MAXIMUM SETPOINT OF 85°F (ADJ), ZONE DAMPER SHALL MODULATE BETWEEN MINIMUM COOLING CFM AND MAXIMUM HEATING CFM.

UNOCCUPIED MODE:
WHEN IN THIS MODE, WHILE THE ZONE TEMPERATURE (ZN-T) IS BETWEEN THE UNOCCUPIED HEATING (EFFHTG-SP) AND COOLING (EFFCLG-SP) SETPOINTS (INSIDE OF THE BIAS), THE PRIMARY AIR DAMPER (DPR-O) WILL BE AT THE MINIMUM CFM (SA-F) AND THERE WILL BE NO MECHANICAL HEATING. ON A RISE IN ZONE TEMPERATURE (ZN-T) ABOVE THE UNOCCUPIED COOLING SETPOINT (EFFCLG-SP), THE PRIMARY AIR DAMPER (DPR-O) WILL INCREASE THE CFM (SA-F) (IF AVAILABLE) AND THERE WILL BE NO MECHANICAL HEATING. ON A DROP IN ZONE TEMPERATURE (ZN-T) BELOW THE UNOCCUPIED HEATING SETPOINT (EFFHTG-SP), THE REHEAT COIL WILL BE USED TO MAINTAIN THE ZONE TEMPERATURE (ZN-T) AND THE PRIMARY AIR DAMPER (DPR-O) WILL BE AT THE MINIMUM CFM (SA-F).

CO2 FLOW RESET:
THE CO2 LEVEL IN THE ZONE (ZN-Q) WILL BE MONITORED AND WILL RESET THE MINIMUM FLOW SETPOINTS FOR THE BOX AS SCHEDULED. ON RISING CO2 CONCENTRATIONS, OVERRIDING NORMAL DAMPER OPERATION TO MAINTAIN A CO2 SETPOINT OF NOT MORE THAN 800 PPM (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH ZONE CARBON DIOXIDE CONCENTRATION: IF THE ZONE CO2 CONCENTRATION IS GREATER THAN 1000 PPM (ADJ.).

OPTIMAL START:

PROVIDE OPTIMAL START ALGORITHM FOR MORNING START-UP. ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP/COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD. START TIME SHALL AUTOMATICALLY ADJUST BASED ON CHANGES IN OUTSIDE AIR TEMPERATURE AND ZONE TEMPERATURES. START UP SHALL INITIALLY UTILIZE THE MAXIMUM CFM THAT CAN BE DELIVERED TO THE SPACE TO REDUCE THE TIME TO MEET SETPOINTS.

TEMPERATURE SETPOINT:

OCCUPIED MODE:

COOLING: 74° F (ADJ.) PLUS 1°F OFFSET

HEATING: 70° F (ADJ.)* MINUS 1°F OFFSET

DEADRAND = 5°F (MINIMIMIM DIEFERENCE RETWEEN C

HEATING: 70° F (ADJ.)* MINUS 1°F OFFSET

DEADBAND = 5°F (MINIMUM DIFFERENCE BETWEEN COOLING AND HEATING SETPOINT)

*WHEN OCCUPANCY SENSOR INDICATES NO OCCUPANCY, SET POINT SHALL BE REDUCED BY 1° F (ADJ.)

UNOCCUPIED MODE: COOLING: 81° F (ADJ.) HEATING: 60° F (ADJ.)

ZONE SETPOINT ADJUST: DDC SHALL ADJUST ZONE TEMPERATURE FROM FRONT END. THE OCCUPANT SHALL NOT BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

UNIT ENABLE:
A NETWORK UNIT ENABLE (UNITEN-MODE) SIGNAL WILL CONTROL THE MODE OF THE BOX.

NETWORK WARMUP-COOLDOWN:
WARM-UP AND COOLDOWN MODES WILL BE ACTIVATED BY A NETWORK COMMAND (WC-C). WHEN THE ZONE TEMPERATURE (ZN-T) IS BELOW THE EFFECTIVE HEATING SETPOINT (EFFHTG-SP), THE BOX WILL USE WARM AIR FLOW, THEN REHEAT COIL TO MAINTAIN THE ZONE TEMPERATURE (ZN-T). WHEN THE BOX IS SATISFIED THE FLOW WILL REMAIN AT THE WARM-UP MINIMUM POSITION UNTIL THE WARM COMMAND HAS BEEN REMOVED.

TYPENA	AME DE	SCRIPTION
Al	DA-VP	DISCHARGE AIR VELOCITY PRESSURE
Al	DA-T	DISCHARGE AIR TEMPERATURE
PAO	DPR-O	SUPPLY AIR DAMPER OUTPUT
PAO	HTG-O	HEATING OUTPUT
MO	OCC-MODE	OCCUPANCY STATUS DISPLAY
Al	ZN-Q	ZONE CO2
Al	ZN-SP	ZONE SETPOINT
Al	ZN-T	ZONE TEMPERATURE

² VAV WITH HYDRONIC HEAT & CO2

M5.1 NO SCALE

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EXPIRES: 12/31/2022

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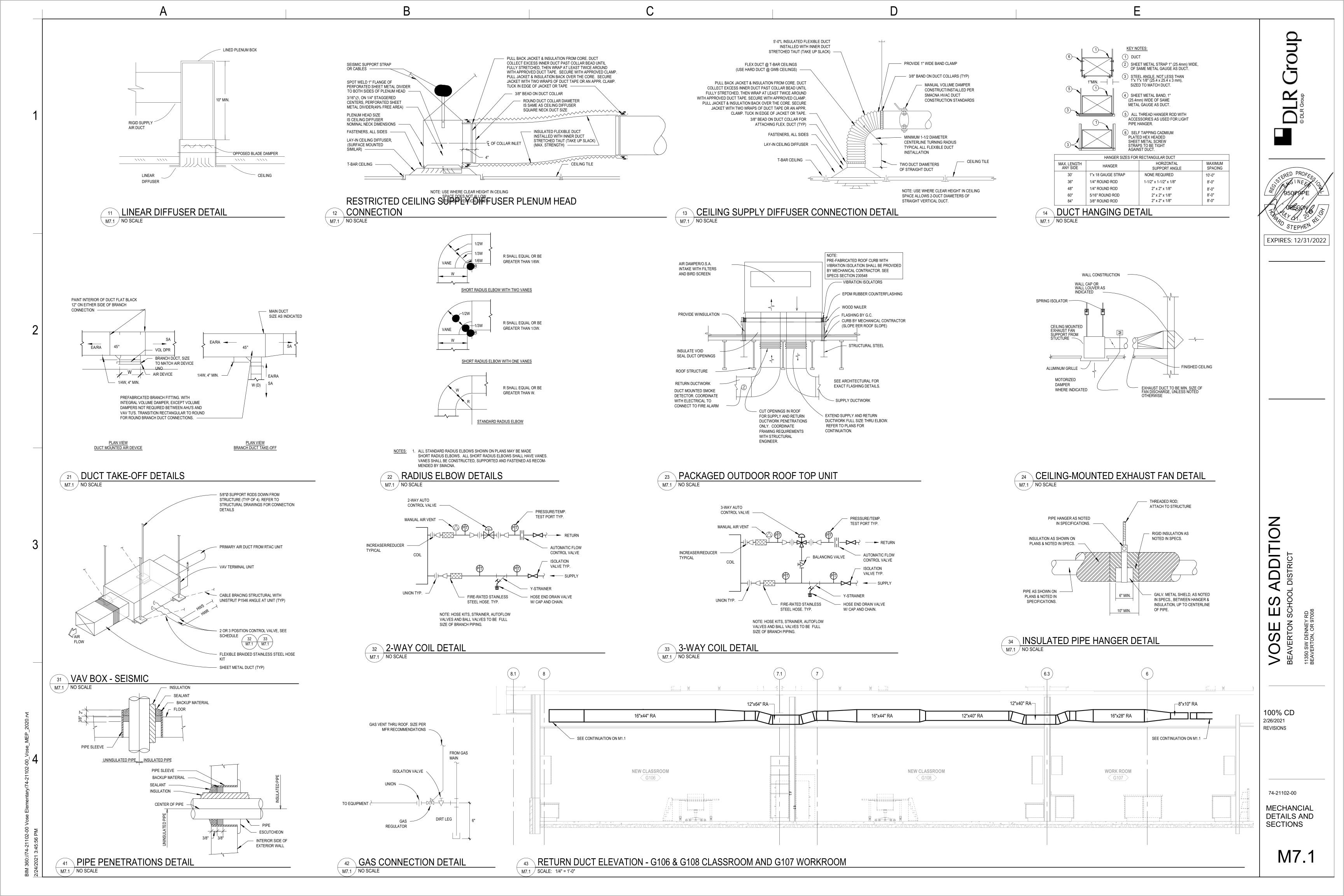
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MECHANICAL

CONTROLS

M5.1



DIFFUSER, REGISTER & GRILLE SCHEDULE									
MARK	MAX STATIC PD (IN WG)	MAX NC	MATERIAL	DAMPER (Y/N)	SURFACE	BASIS OF DESIGN	MECH NOTES		
D-1	0.1	20	STEEL	N	LAY-IN	TITUS OMNI (24X24)	1,2,3		
D-2	0.1	20	STEEL	N	SURFACE	TITUS FL-10, 1-SLOT, 1"SLOT, 48"LENGTH	1,2,3		
G-1	0.1	20	ALUM	N	LAY-IN	TITUS 350RS	1,2,3		

1. CONTRACTOR SHALL COORDINATE MOUNTING AND SURFACE CONSTRUCTION PRIOR TO FURNISHING MATERIAL.

2. SEE PLANS FOR LOCATION, FRAME TYPE, AND CFM 3. NECK SIZE SHALL MATCH CONNECTED DUCT SIZE. REFERENCE PLAN FOR DUCT SIZE.

FAN SCHEDULE (A	ALTERNATE #1)														
		FAN	WHEEL	FAN DATA	EXTERNAL S.P.	FAN	SOUND	MOTORIZED	CONTROL	DRIVE		MOTOR		BASIS OF DESIGN	NOTES
MARK	SERVICE	TYPE	TYPE	CFM	(IN WG)	RPM	(SONES)	DAMPER	COMMOD	TYPE	WATTS	V	PH	Bridge of Bedient	110120
					, ,		,								
EF-G101	G101 RESTROOM	CEILING MOUNT	CENTRIFUGAL	70	0.25	1161	0.5	YES	LIGHTING OCC	DIRECT	20.7	120	1	PANASONIC FV-11VQ5	1, 2, 3, 4
EF-G103	G103 RESTROOM	CEILING MOUNT	CENTRIFUGAL	70	0.25	1161	0.5	YES	LIGHTING OCC	DIRECT	20.7	120	1	PANASONIC FV-11VQ5	1, 2, 3, 4

System name and number	RTU-5
Condition analyzed (impacts Ez, Vdz, Vpz and Vps)	Heating
All zones are included in the VRP calculation	Yes

Zone Name and Number	Occupancy Category		you using default value for zone population?	Zone Population Pz (people)	Zone Air Distribution Effectiveness	Zone Outdoor Airflow Voz (cfm)	Zone Discharge Airflow Vdz (cfm)	Zone Primary Airflow Vpz (cfm)	Zone Secondary Recirculation Fraction Er	Zone Primary Air Fraction Ep
CORRIDOR N	Corridors	572	No	0.00	0.80	42.90	139	139	0.75	1.00
CORRIDOR S	Corridors	572	No	0.00	0.80	42.90	157	157	0.75	1.00
G102 CLASSROOM	Classrooms (ages 5-8)	875	No	31.00	0.80	518.75	701	701	0.75	1.00
G104 CLASSROOM	Classrooms (ages 5-8)	873	No	31.00	0.80	518.45	701	701	0.75	1.00
G106 CLASSROOM	Classrooms (ages 5-8)	886	No	31.00	0.80	520.40	707	707	0.75	1.00
G107 WORKROOM	Wood / metal shop	476	No	2.00	0.80	132.10	219	219	0.75	1.00
G108 CLASSROOM	Classrooms (ages 5-8)	889	No	31.00	0.80	520.85	704	704	0.75	1.00
G110 LIBRARY N	Libraries	857	No	25.00	0.80	284.80	478	478	0.75	1.00
G110 LIBRARY S	Libraries	1,863	No	30.00	0.80	466.95	975	975	0.75	1.00
G114 COMPUTER LAB	Classrooms (ages 5-8)	912	No	37.00	0.80	599.30	809	809	0.75	1.00

(sq ft)	8,775 Net occupiable floor area served by the ventilation syste
(people)	218.00
(people)	218.00∑Pz
	1.00Ps / ∑Pz
(cfm)	2,917.92D ∑ (Rp Pz) + ∑(Ra Az)
(cfm)	7,200
	0.40 Vou / Vps
	Appendix A
	0.66 Ventilation efficiency from critical zone
(cfm)	4,421 Vou / Ev
(cfm)	4,500
	(people) (people) (cfm) (cfm)

dno. DLR

APPROX. MANUFACTURER & MODEL NOTES

DPS020A

1, 2, 3, 4, 5

1-8

1-8

1-8

1-8

1-8

WEIGHT (LBS)

BASIS OF

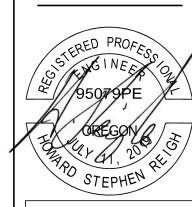
DESIGN

PRICE SDV5

PRICE SDV5

PRICE SDV5

PRICE SDV5

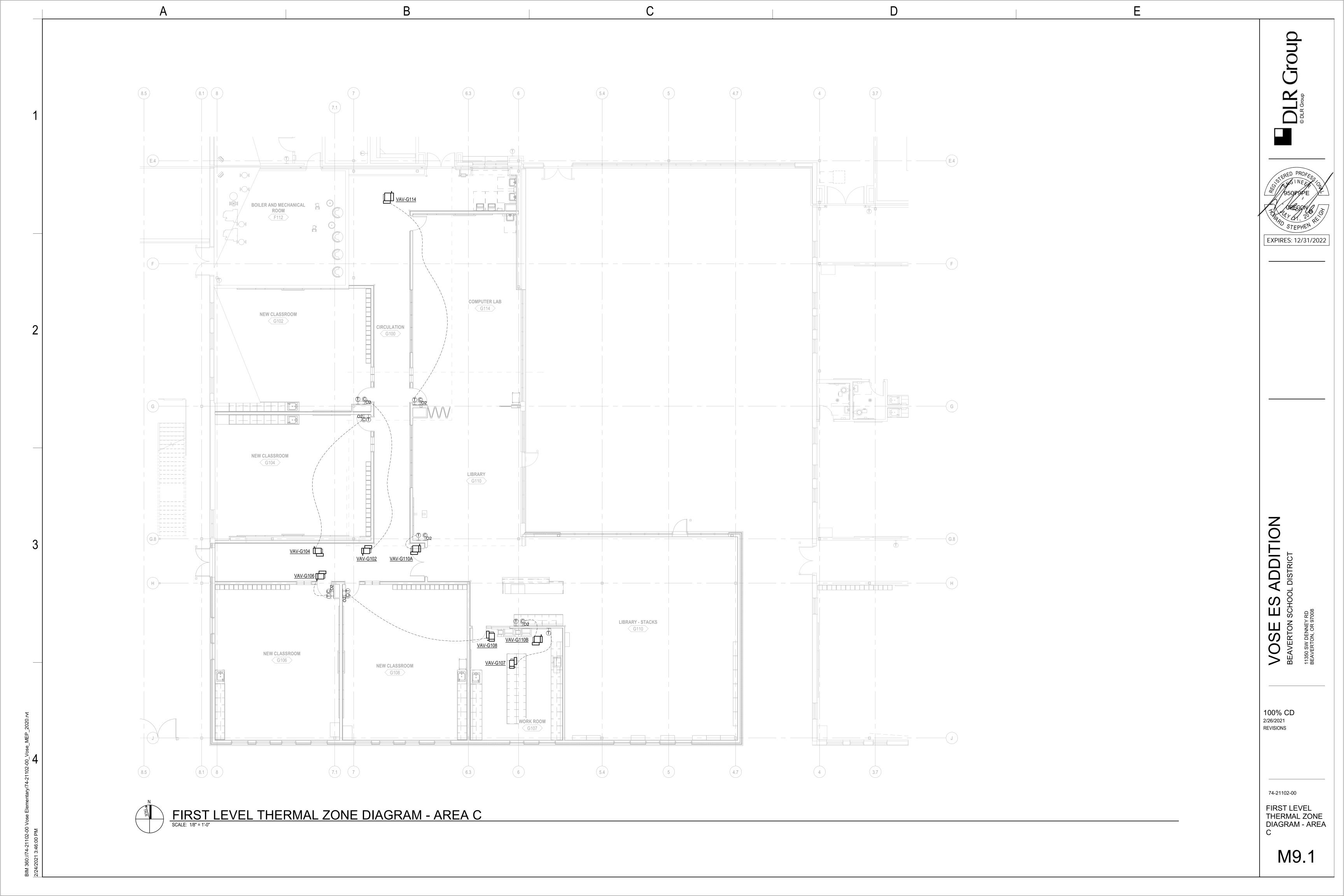


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74-21102-00 MECHANICAL SCHEDULES

M8.1



HW

HWC

DOMESTIC HOT WATER

DOMESTIC HOT WATER RECIRCULATING

WCL

WCO

WATER CLOSET/LAVATORY COMBINATION

WALL CLEAN OUT

PL	UMBING	SYMBOLS
SCHEMATIC	3D	DESCRIPTION
├ CW 	CW CW	DOMESTIC COLD WATER
$\longleftarrow - \longrightarrow$		DOMESTIC COLD WATER (LINETYPE)
\longrightarrow HW \longrightarrow		DOMESTIC HOT WATER
$\longleftarrow \longrightarrow$		DOMESTIC HOT WATER (LINETYPE)
├ ── 110 HW ──	110 HW	DOMESTIC HOT WATER (110 °F)
├ ── 140 HW ──	140 HW	DOMESTIC HOT WATER (140 °F)
$\longleftarrow HWC \longrightarrow$		DOMESTIC HOT WATER RECIRCULATING
$\longleftarrow \longrightarrow$		DOMESTIC HOT WATER RECIRCULATING (LINETYPE)
├ ── 110 HWC ──	110 HWC	DOMESTIC HOT WATER RECIRCULATING (110 °F)
├ ── 140 HWC ─ ─ ?	140 HWC	DOMESTIC HOT WATER RECIRCULATING (140 °F)
\leftarrow RD \rightarrow	RD	ROOF DRAIN
$\longleftarrow ORD \longrightarrow$		OVERFLOW ROOF DRAIN
├ SD 	SD	STORM DRAIN
∠ cwv ~~	CWV	COMBINATION WASTE AND VENT
 FM 	FM	FORCED MAIN
۶ الا	&===:W:==3	INDIRECT WASTE
├ PD ├	PD	PUMP DISCHARGE
~w	w	SANITARY WASTE
∠ – ∨ – →		SANITARY VENT
← FDNDR ←	FDNDR	FOUNDATION DRAIN
∠	— co	CLEAN OUT
	₩CO FCO	WALL CLEAN OUT FLOOR CLEAN OUT
─○ FCO		GRADE CLEAN OUT (DOUBLE CLEAN OUT)
GCO	GCO	FLOOR DRAIN / FLOOR SINK
0	0	ROOF DRAIN / OVERFLOW DRAIN
<u> </u>		DOWNSPOUT NOZZLE
<u>`</u> +		WALL HYDRANT
×		HOSE BIBB
\bigcirc		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		WATER HAMMER ARRESTER
()	x	RISER TAG
·	8" SD-2 1500 SF	ROOF DRAIN TAG
闡	<u>3" FS-5</u>	PLUMBING FIXTURE TAG

SHEET INDEX

P0.1 GENERAL NOTES, PLUMBING SYMBOLS & ABBREVIATIONS

PD2.1 OVERALL FIRST FLOOR PLUMBING DEMOLITION PLAN

P2.1 FIRST FLOOR PLUMBING PLAN

P4.1 DOMESTIC WATER, WASTE & VENT RISER DIAGRAM

P5.1 PLUMBING DETAILS & SCHEDULES

PING AN	NOTATIONS
3D	DESCRIPTION
8	EXISTING TO REMAIN - (E) or EXIST
 	ITEM TO BE DEMOLISHED - (D) or DEMO
18" CWS	PIPE SIZE TAG (DIAMETER WITH SYSTEM NAI
	ABOVE GROUND PIPING
	BELOW GROUND PIPING
1/8" / 12" SLOPE —	- PIPE SLOPE
1E = -93' - 8" -	- PIPE INVERT ELEVATION
	MECHANICAL EQUIPMENT TAG
	MECHANICAL EQUIPMENT CLEARANCE
	3D 18" CWS 18" CWS 1/8" / 12" SLOPE

	<u> </u>	S AND FITTINGS						
SCHEMATIC	3D	DESCRIPTION						
c —		PIPE DROP						
<u> </u>		PIPE RISE						
•	(2)	PIPE TEE DOWN						
─○		PIPE TEE UP						
~		CONCENTRIC REDUCER						
		ECCENTRIC REDUCER						
		PIPE CAP						
		PIPE ALIGNMENT GUIDE						
→	X	PIPE ANCHOR						
		FLOW DIRECTION						
		EXPANSION JOINT						
****		FLEXIBLE CONNECTION						
—— —— <i>`</i>		UNION						
		DIRECTION OF PIPE PITCH						
^		AQUASTAT						
		EXPANSION LOOP						
		BALANCING VALVE						
₩ ~		BALANCING VALVE W/ METERING POINTS						
——IΦI———		BALL VALVE						
——I[——→		BUTTERFLY VALVE						
\longrightarrow		CHECK VALVE						
		STEAM TRAP						
\longrightarrow \frown		GATE VALVE						
→ +		MANUAL AIR VENT						
		AUTOMATIC AIR VENT						
—— 		PLUG VALVE						
Ø		PRESSURE GAUGE						
		PLUG VALVE						
Å → ,		ANGLE VALVE						
		AUTOMATIC CONTROL VALVE 2-WAY						
~		AUTOMATIC CONTROL VALVE 2-WAY						
		AUTOMATIC CONTROL VALVE 5-WAY						
		AUTOMATIC FLOW CONTROL VALVE						
		STRAINER						
		PRESSURE AND TEMPERATURE TEST PORT						
		THERMOMETER						
		PRESSURE REDUCING VALVE (WATER SYSTEMS) PRESSURE REGULATING VALVE (GAS SYSTEMS)						
≱ →	_	RELIEF VALVE						
—		FLOW MEASURING DEVICE BACKFLOW PREVENTER						

* NOTE *

ALL OF NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

DLR Group

95079PE

STEPHEN

EXPIRES: 12/31/2022

DITION

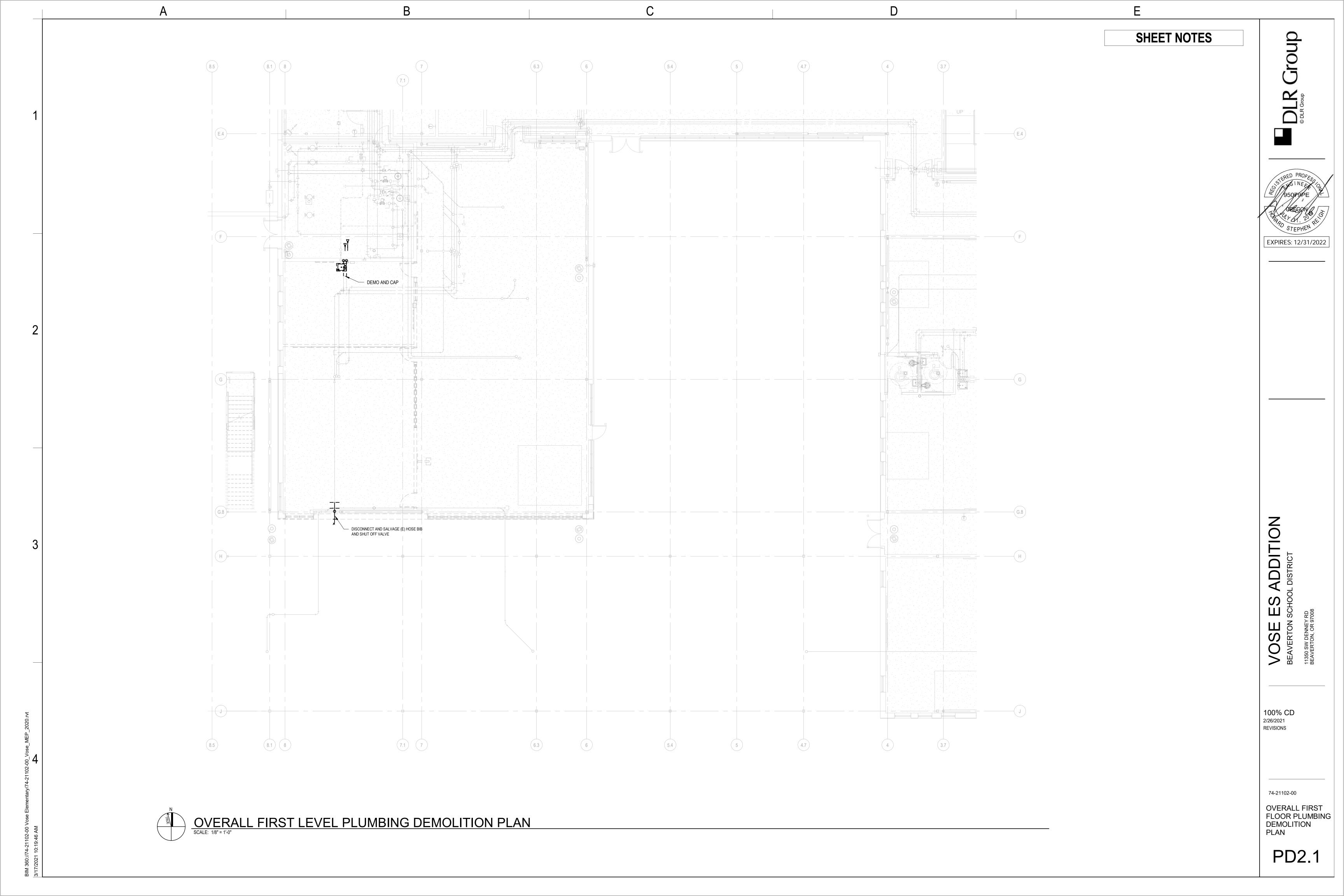
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BEAVERTON SCHOOL [

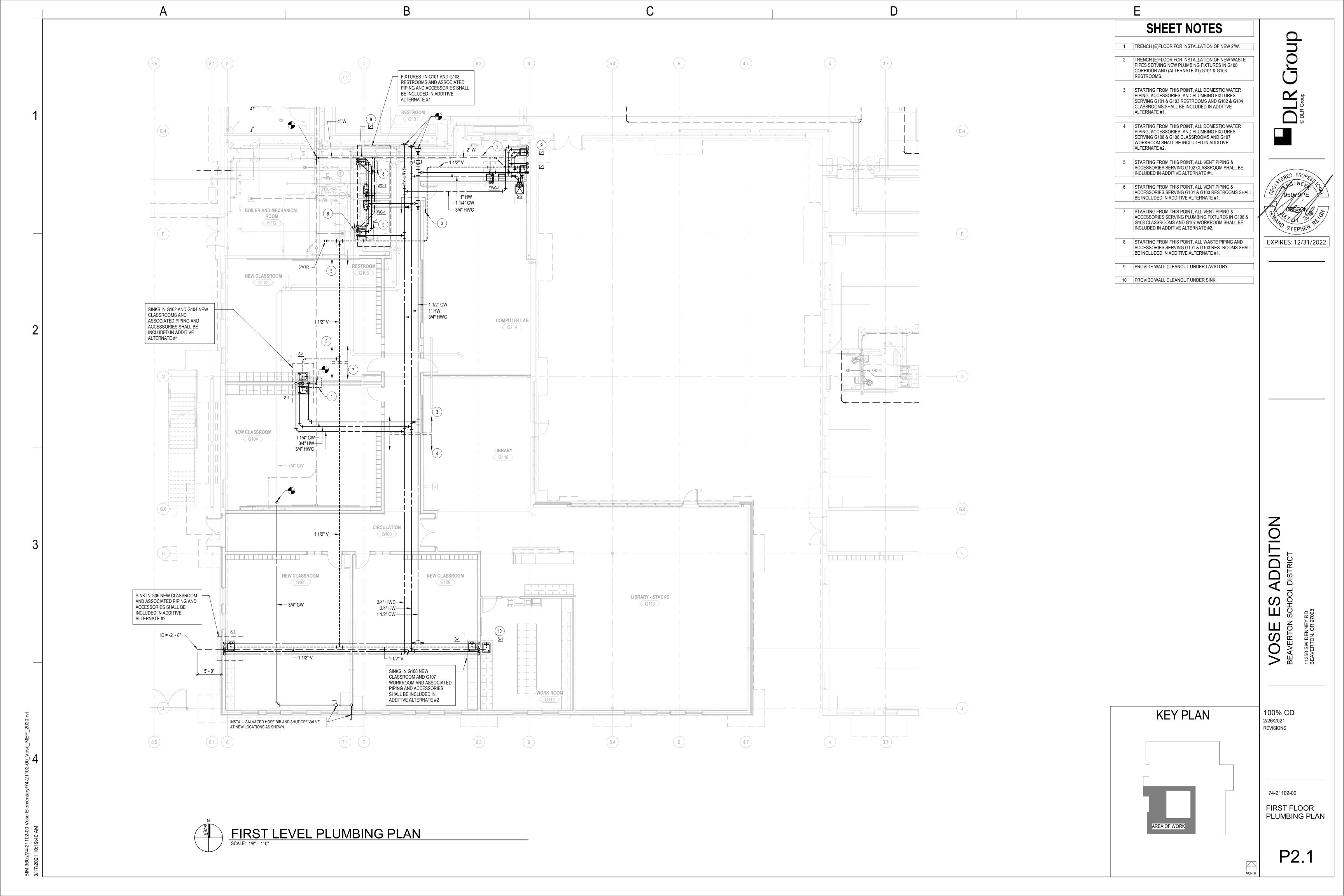
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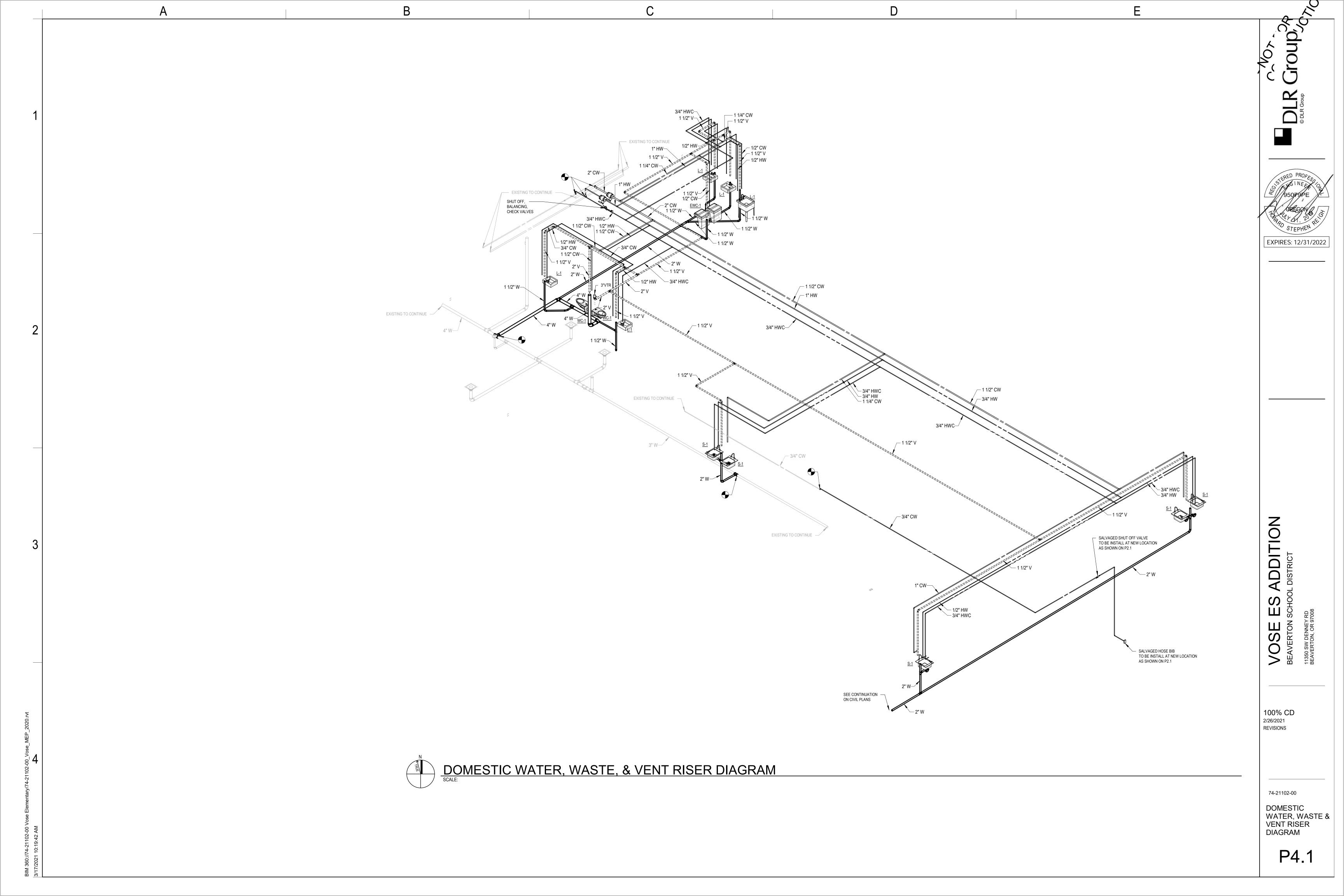
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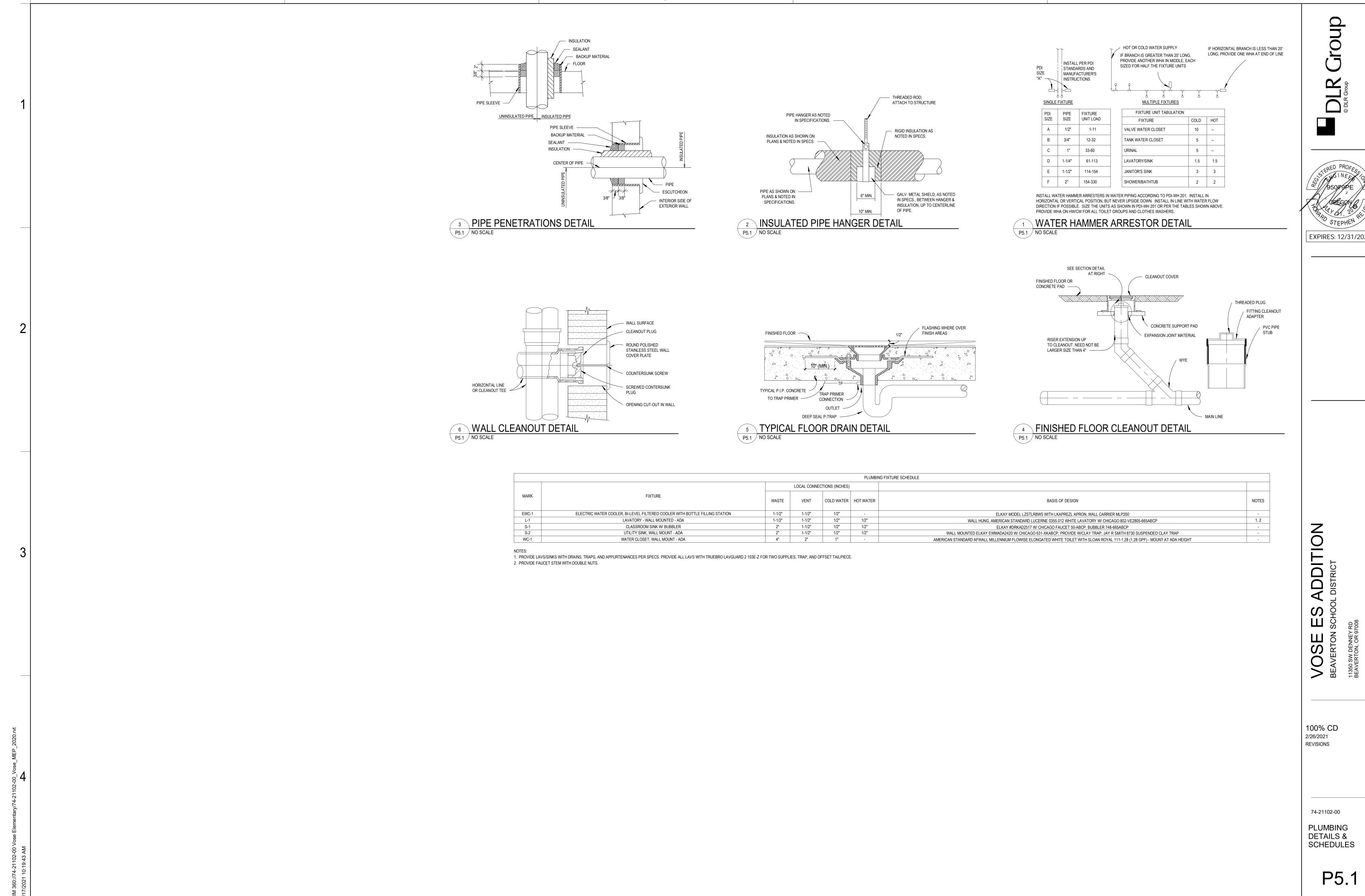
GENERAL NOTES, PLUMBING SYMBOLS & ABBREVIATIONS

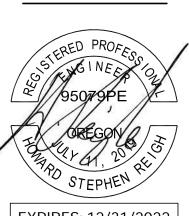
P0.1











EXPIRES: 12/31/2022

SHEET INDEX

FP0.1 GENERAL NOTES, FIRE PROTECTION SYMBOLS & ABBREVIATIONS

FP1.1 FIRST FLOOR FIRE PROTECTION PLAN - AREA C

FIRE PROTECTION SYMBOLS **SCHEMATIC** 3D DESCRIPTION DFP COMBINATION FIRE AND DOMESTIC WATER **─** DFP — FIRE PROTECTION DRY FIRE PROTECTION OTHER F-----FIRE PROTECTION PRE-ACTION **S** WS **3** FIRE PROTECTION WET —— ws ——**→ I** ALARM VALVE, WET ALARM VALVE, DRY FIRE PROTECTION RISER FIRE DEPARTMENT CONNECTION SPRINKLER HEAD, PENDANT SPRINKLER HEAD, PENDANT SPRINKLER HEAD, SIDE WALL FLOW SWITCH PRESSURE SWITCH OS&Y VALVE OS&Y VALVE (INDICATING)

GENERAL SYMBOLS

AREA NOT IN CONTRACT

POINT OF DISCONNECT - DEMOLITION REMOVED FROM

POINT OF CONNECTION - NEW CONNECTS TO EXISTING

→ () →

GENERAL FIRE PROTECTION NOTES

- PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES, PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE. LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY
- THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- 3 THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- 4 PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- 5 THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
- 6 REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- 7 DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER
- 8 ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- 9 THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- 10 AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
- 11 AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- 12 AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
- 13 SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- 14 FLOW TEST DATA FROM #/#/# INDICATES THE FOLLOWING: STATIC PRESSURE # PSI. RESIDUAL PRESSURE: # PSI AT ## GPM. THE HYDRANTS TESTED ARE APPROXIMATELY ### FEET AWAY FROM THE CENTER OF THE SITE LOCATED OFF THE ##" WATER MAIN IN ## STREET AT AN ELEVATION OF ### FEET ABOVE SEA LEVEL. SEE CIVIL PLANS FOR HYDRANT LOCATION. THE CONTRACTOR SHALL PERFORM A FIRE FLOW TEST IN ACCORDANCE WITH NFPA 291 TO VERIFY THE FLOW TEST DATA GIVEN ABOVE. THE DATA GIVEN ABOVE SHALL BE THE BASIS OF DESIGN UNLESS THE AVAILABLE PRESSURE OR FLOW HAS DECREASED. NOTIFY OWNERS REPRESENTATIVE IF FLOW TEST DATA DIFFERS FROM THE DATA ABOVE. A FIRE PROTECTION ENGINEER OR AN ENGINEER EXPERIENCED IN WATER FLOW TESTING SHALL PERFORM OR WITNESS THE REQUIRED FLOW TESTING AND SIGN THE REPORT PRIOR TO THE FIRST SPRINKLER SYSTEM SUBMITTAL.
- 15 ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH
- 16 THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- 17 THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

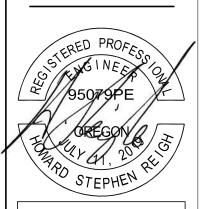
PIF	PING AN	NOTATIONS
SCHEMATIC	3D	DESCRIPTION
<u>}</u>	8	EXISTING TO REMAIN - (E) or EXIST
⊱	 	ITEM TO BE DEMOLISHED - (D) or DEMO
18" CWS——	18" CWS	PIPE SIZE TAG (DIAMETER WITH SYSTEM NAME)
	3	ABOVE GROUND PIPING
$\leftarrow \rightarrow$		BELOW GROUND PIPING
1/8" / 12" SLOPE	1/8" / 12" SLOPE -	- PIPE SLOPE
IE = -93' - 1"	IE = -93' - 8"	PIPE INVERT ELEVATION
DDC -		MECHANICAL EQUIPMENT TAG
-	_	- MECHANICAL EQUIPMENT CLEARANCE

SCHEMATIC	3D	DESCRIPTION
<u> </u>	8	EXISTING TO REMAIN - (E) or EXIST
≻ →	 	ITEM TO BE DEMOLISHED - (D) or DEMO
2 —18" CWS— →	18" CWS 9	PIPE SIZE TAG (DIAMETER WITH SYSTEM NAM
	8	ABOVE GROUND PIPING
$\leftarrow \rightarrow$		BELOW GROUND PIPING
1/8" / 12" SLOPE	1/8" / 12" SLOPE	- PIPE SLOPE
IE = -93' - 1"	IE = -93' - 8" →	- PIPE INVERT ELEVATION
DDC	-	 MECHANICAL EQUIPMENT TAG
	_	— MECHANICAL EQUIPMENT CLEARANCE

SCHEMATIC	3D	DESCRIPTION						
c		PIPE DROP						
~		PIPE RISE						
├ 		PIPE TEE DOWN						
├		PIPE TEE UP						
>		CONCENTRIC REDUCER						
├		ECCENTRIC REDUCER						
		PIPE CAP						
<u> </u>		PIPE ALIGNMENT GUIDE						
← × →		PIPE ANCHOR						
——	₹	FLOW DIRECTION						
├		EXPANSION JOINT						
<u> </u>		FLEXIBLE CONNECTION						
<i>-</i>		UNION						
	8	DIRECTION OF PIPE PITCH						
\$								
		AQUASTAT						
		EXPANSION LOOP						
} —— ▼ —— >		BALANCING VALVE						
		BALANCING VALVE W/ METERING POINTS						
	 	BALL VALVE						
		BUTTERFLY VALVE						
		CHECK VALVE STEAM TRAP						
$\begin{array}{cccc} & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ \end{array}$		GATE VALVE						
H .		MANUAL AIR VENT						
, P		ALITOMATIC AID VENT						
, <u>.</u>		AUTOMATIC AIR VENT						
\\\\\\\\\\\\\\\\\\\\\\\\\		PLUG VALVE						
\(\frac{1}{2}\)		PRESSURE GAUGE						
		PLUG VALVE						
├		ANGLE VALVE						
$\longleftarrow \not \! \! $		AUTOMATIC CONTROL VALVE 2-WAY						
		AUTOMATIC CONTROL VALVE 3-WAY						
<i>∼ ⊢ ⊢</i>		AUTOMATIC FLOW CONTROL VALVE						
├		STRAINER						
	·	PRESSURE AND TEMPERATURE TEST PORT						
		THERMOMETER						
\longleftarrow		PRESSURE REDUCING VALVE (WATER SYSTEMS						
	_	PRESSURE REGULATING VALVE (GAS SYSTEMS)						
≱→		I RELIEF VALVE						
		RELIEF VALVE FLOW MEASURING DEVICE						

ALL OF NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.



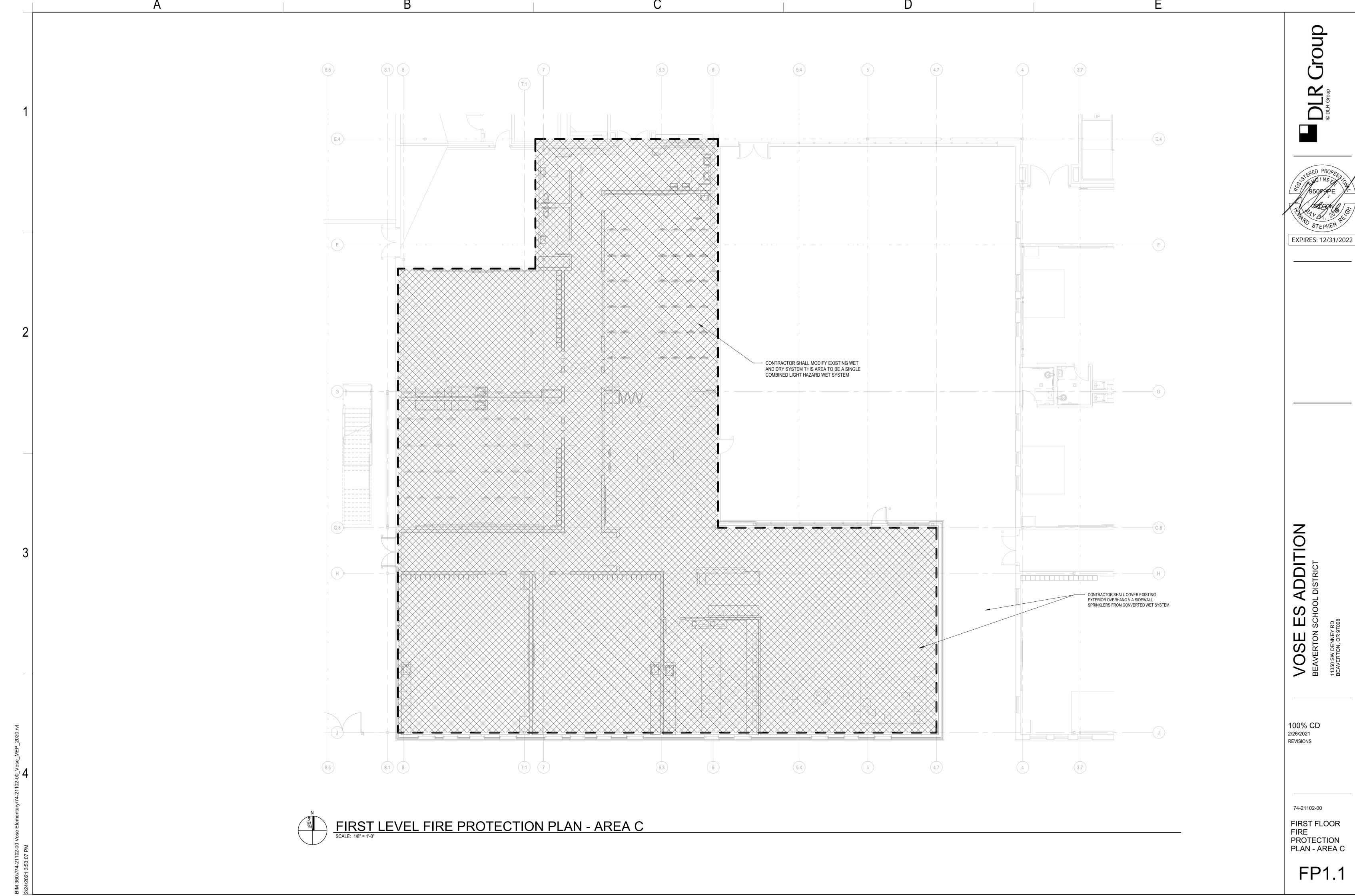
EXPIRES: 12/31/2022

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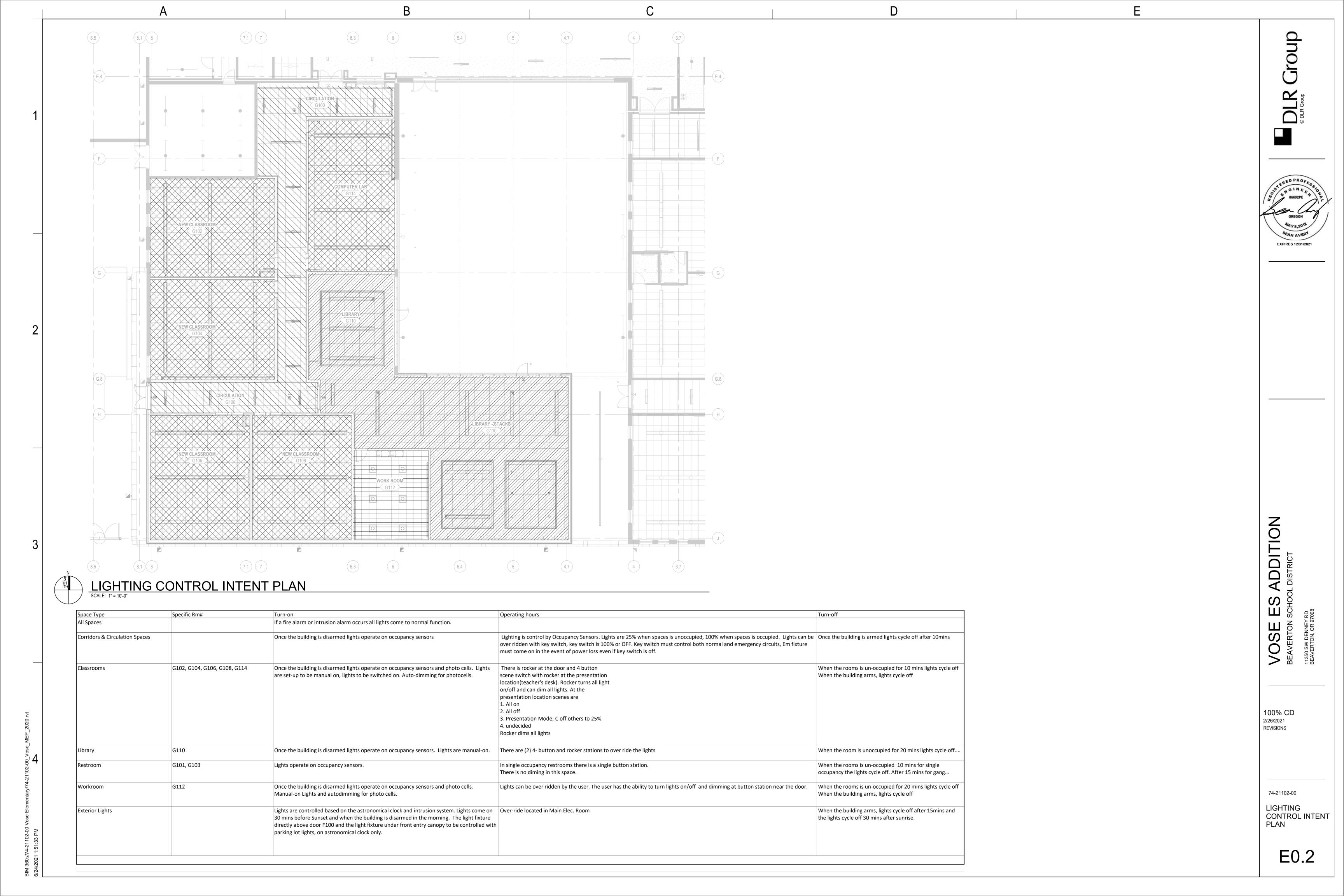
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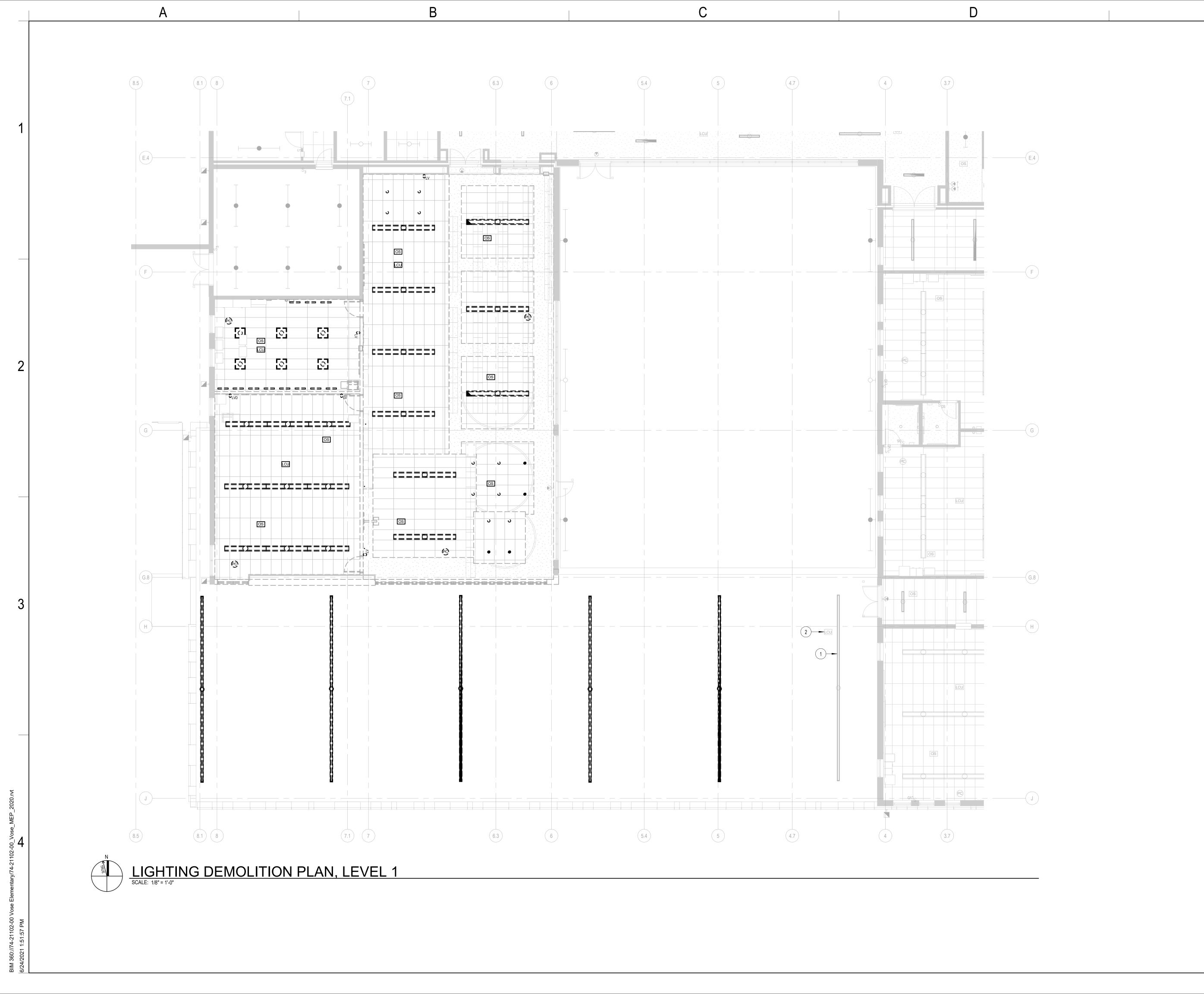
74-21102-00 GENERAL NOTES. FIRE

PROTECTION SYMBOLS & **ABBREVIATIONS**







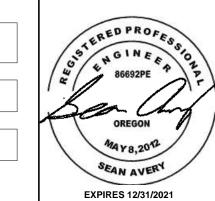


GENERAL NOTES

- 1. ALL LIGHTING, LIGHTING CONTROLS. POWER, DATA,AV, SECURITY, CAMERAS AND FIRE ALARM DEVICES IN AREA OF WORK TO BE DEMOLISHED BACK TO LAST JUNCTION BOX WITHIN THE CEILING. ALL DEVICES SHALL BE SAVED FOR RE-USE.
- 2. EXISTING LIGHTING AND LIGHTING CONTROL, POWER/DATA, SPEAKERS, AV AND FIRE ALARM DEVICES IN LIBRARY, WORK ROOM AND COMPUTER LAB TO BE REUSED IN THE NEW LOCATIONS.
- 3. ALL NEW DEVICES IN THE CLASSROOMS TO MATCH EXISTING SCHOOL.

SHEET NOTES

- 1 EXISTING LIGHT FIXTURE TO BE REMOVED AND REINSTALLED UNDER THE CENTER OF CANOPY.
- 2 EXISTING LIGHTING CONTROL UNIT (LCU) TO BE RELOCATED NEXT TO EXISTING FIXTURE.

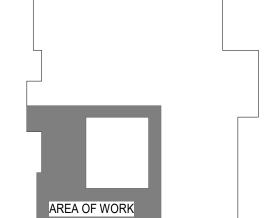


Group

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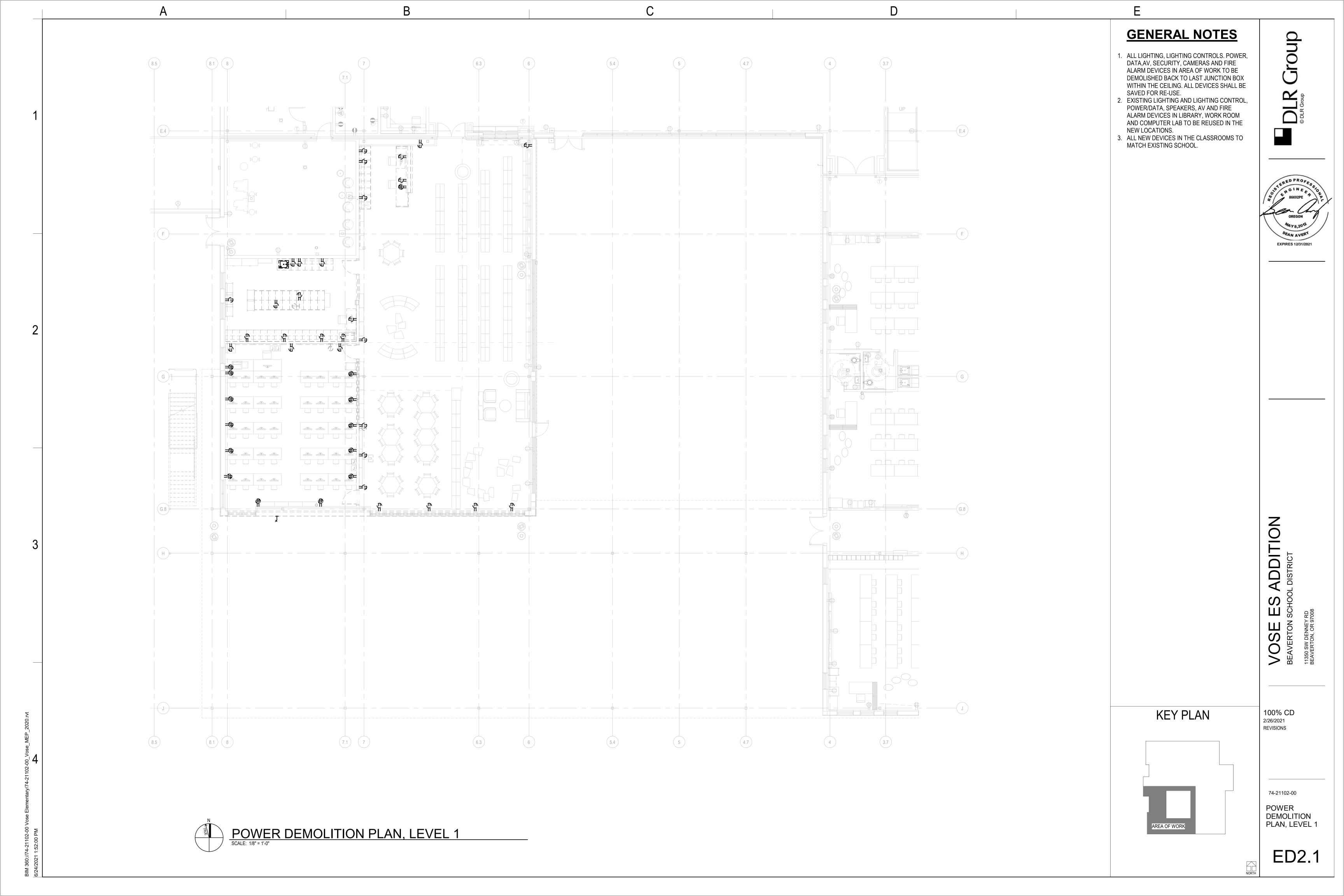
KEY PLAN

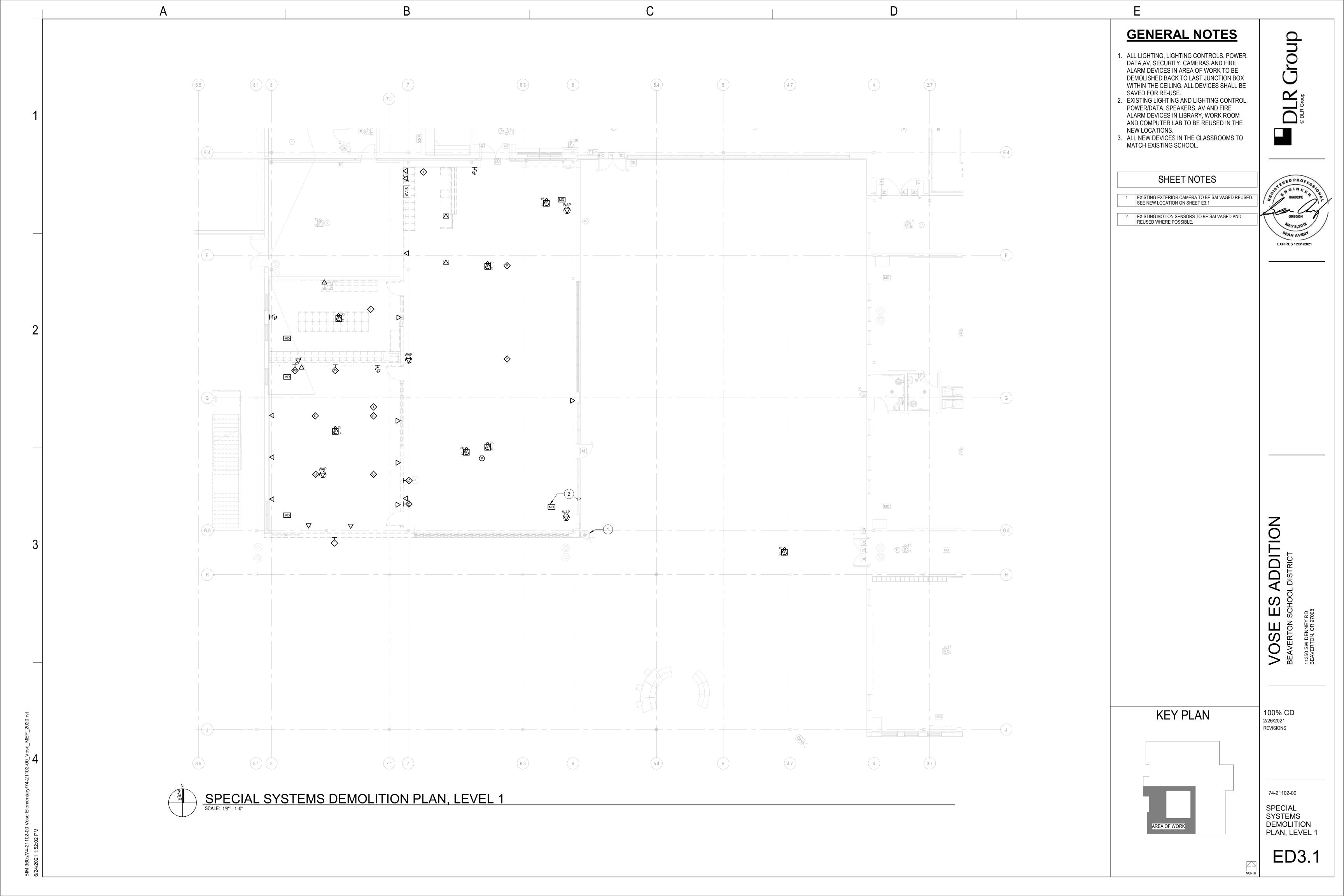
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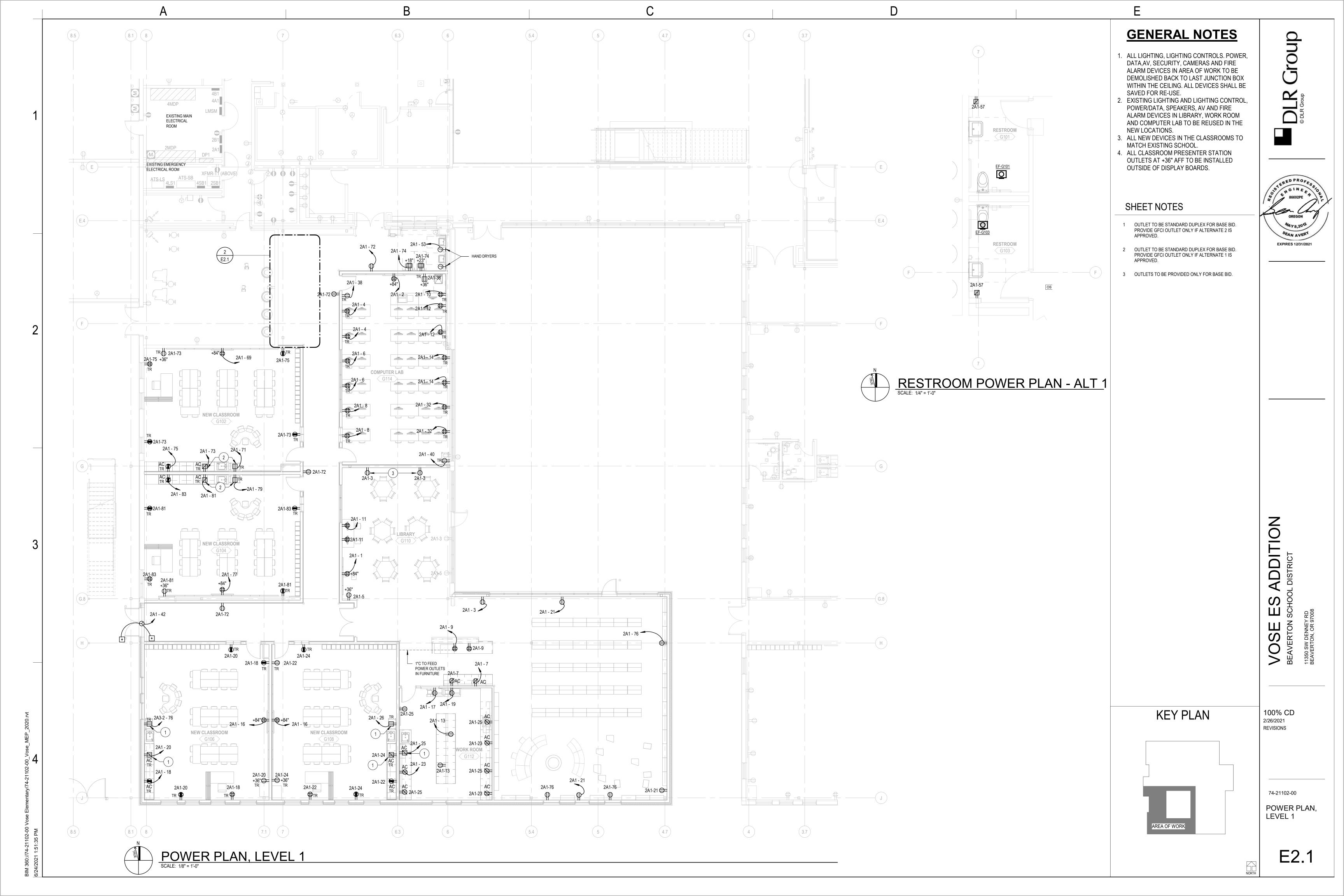
74-21102-00 LIGHTING DEMOLITION PLAN, LEVEL 1

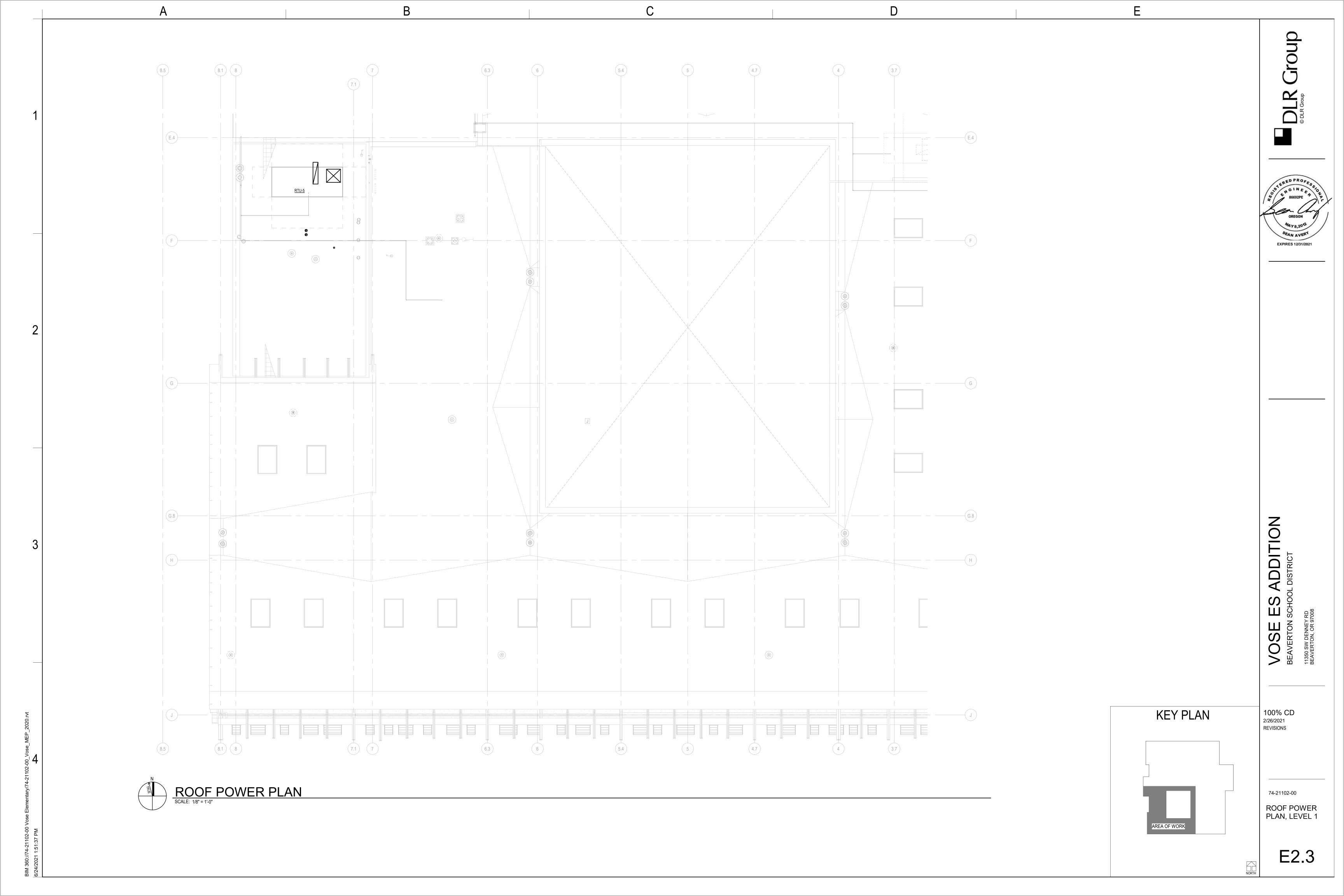
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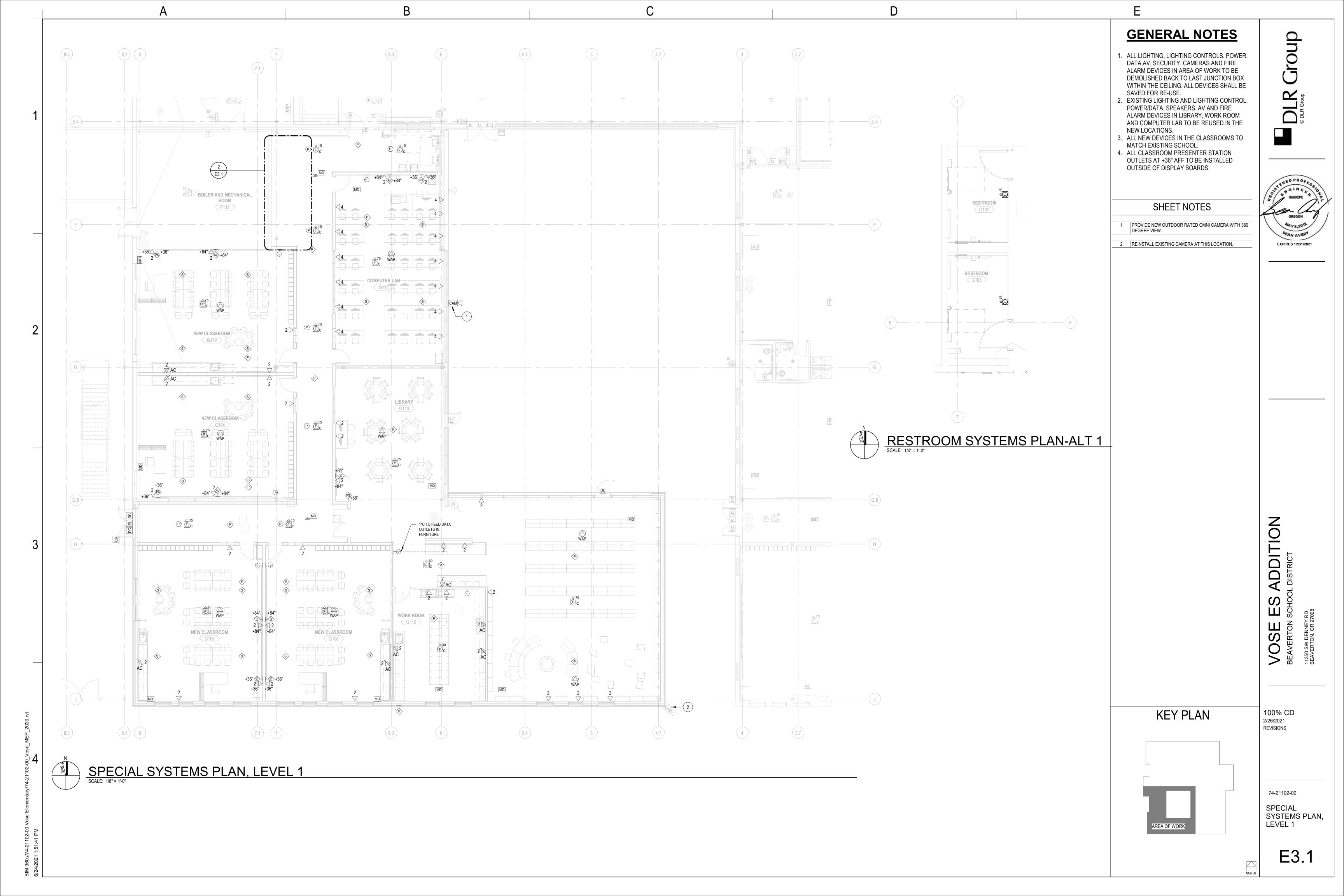


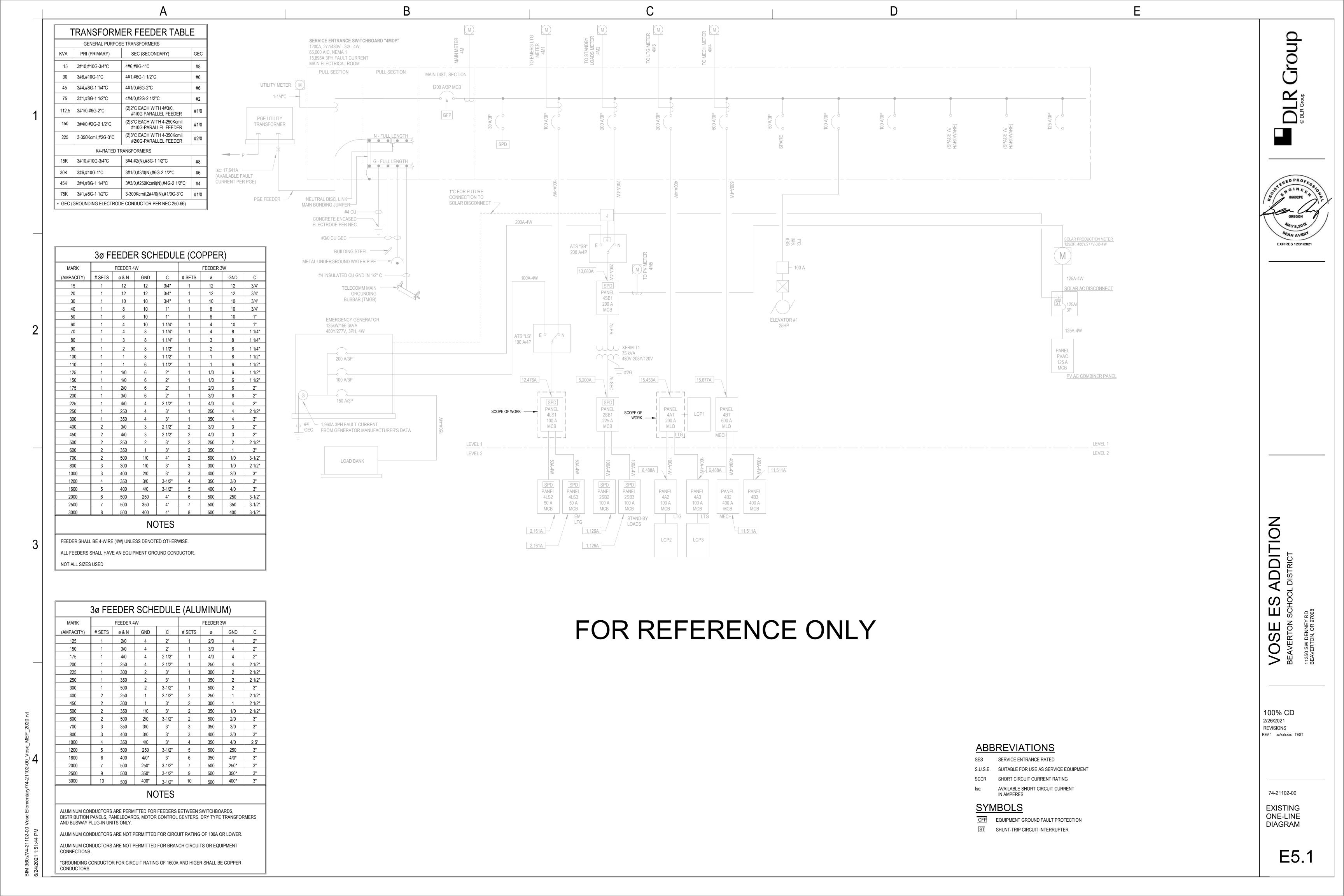


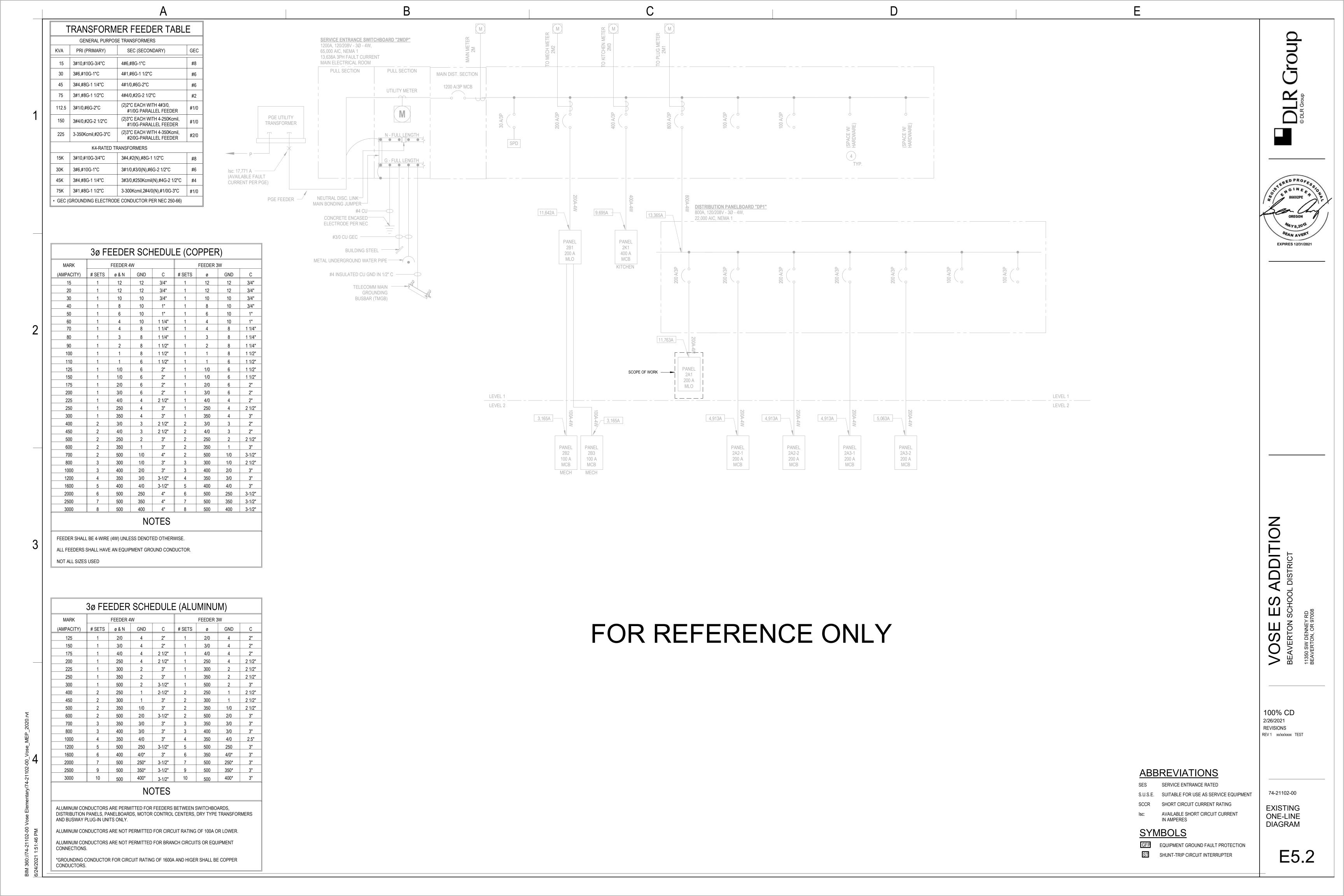


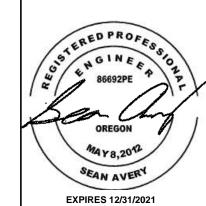












VOSE BEAVERTON

ADDITION

100% CD 2/26/2021 **REVISIONS**

74-21102-00 ELECTRICAL **DETAILS**

E6.1

			LIGH	IT FIXTU	RE SCHED	ULE
TYPE	MANUFACTURER	MODEL	LAMP	VOLTAGE	APPARENT LOAD	DESCRIPTION
CL1	LUMINII EQUAL BY: OPTIC ARTS, VOLT LIGHTING	LLFLEX18-H-30K-SL-SL-XX	3500K LED	277 V	-	TAPELIGHT MOUNTED ON SURFACE OF CLOUD CEILING. PROVIDE WITH TRANSFORMER. COORDINATE EXACT LENGTH WITH CEILING INSTALLATION.UL LISTED.
DL1A	EATON PORTFOLIO	LD4A-18-D010TE-ERW4A-18-835 / 4LW1-LI-WF HB26	LED 3500K	120 V		RECESSED 4" ROUND DOWNLIGHT. 1500 NOMINAL LUMENS. 60 DEGREE CUTOFF AND COMFORT CLEAR REFLECTOR WITH WHITE FLANGE. UL DAMP RATED.
DL2	EATON PORTFOLIO	LD6A15D010TE-ERW6A15835-6LW0LI-DT6LFO	LED 3500K	277 V		RECESSED 6" ROUND DOWNLIGHT. 1500 NOMINAL LUMENS. ROUND ACRYLIC ACCESSORY RING WITH ALUMINUM INSERT. UL DAMP RATED.
ESL3	LIGMAN	UGI-31601-W30-277-F	LED 3500K	277 V	16 VA	EXTERIOR 8.5" X 4.5"X 3.25 LED SCONCE, 1000 NOMINAL LUMENS. UL LISTED FOR WET LOCATIONS. MATT SILVER FINISH.
PL1	CORELITE	J3-F-L-40L-835-1-D-UNV-STD-W-AC48-8	LED 3500K	277 V	52 VA	8' DIRECT/INDIRECT SUSPENDED LINEAR LED FIXTURE. 4000 NOMINAL LUMENS/4FT SECTION. NO SUBSTITUTIONS
PL1-4	CORELITE	J3-F-L-40L-835-1-D-UNV-STD-W-AC48-4	LED 3500K	277 V	26 VA	SAME AS PL1 BUT 4' IN LENGHT
PL1-6	CORELITE	J3-F-L-40L-835-1-D-UNV-STD-W-AC48-6	LED 3500K	277 V	40 VA	SAME AS PL1 EXCEPT 6' LENGTH
PL2	CORELITE	J3-F-L-40L-835-1-D-UNV-STD-W-AC48-12	LED 3500K	277 V	78 VA	SAME AS PL1 EXCEPT 12' LENGTH
RL1	METALUX	22ALNG-LD4-40-UNV-L835-CD1-U	LED 3500K	277 V		2X2 RECESSED INDIRECT TROFFER, 3800 NOMINAL LUMEN LED, 3500K . 0-10V DIMMING DRIVER. STEEL HOUSING WITH WHITE PAINTED REFLECTOR. SINGLE PIECE EXTRUDED DIFFUSE LENS WITH FULLY LUMINOUS HOUSING. WHITE PAINTED TRIM.
RL3-4	FOCAL POINT	FSM2L-FL-625LF-35K-1C-UNV-LD1-WH-4	LED 3500K	277 V	17 VA	RECESSED FLANGED 2" SLOT FIXTURE, 4' LENGTH,2500 NOMINAL LUMENS PER 4' LENGTH. CONFIRM MOUNTING CONDITIONS.
UC1	HALO	HU1036D930P	LED 3000K	277 V		36" UNDERCABINET 1140 LUMEN LED LIGHT WITH EXTRUDED ALUMINUM HOUSING, UV STABILIZED ACRYLIC LENS, AND POLYCABONAT ENDCAPS.
WL1A	PRUDENTIAL	S1-LED35-LO-4-SAL-TMW-UNV-SUR-ND	LED 3500K	277 V	17 VA	WALL MOUNTED WRAPAROUND STRIP , 1920 LUMEN. SATIN ACRYLIC LENS AND TEXTURES WHITE FINISH.
X1	SURELITES	EUX7R	-			LED CLEAR ACRYLIC EDGELIT EXIT SIGN. PROVIDE MOUNTING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS; SINGLE-SIDED SIGNS SHALL HAVE CLEAR BACKGROUND, DOUBLE-SIDED FACES SHALL HAVE MIRRORED BACKGROUND.
Х3	SURELITES	EUX7R	-			LED CLEAR ACRYLIC EDGELIT EXIT SIGN. PROVIDE MOUNTING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS; SINGLE-SIDED SIGNS SHALL HAVE CLEAR BACKGROUND.
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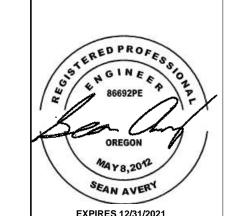
			MECHANI	CAL EQUIPME	NT CONN	ECTION SCI	HEDULE				
EQUIPMENT SERVED	EQUIPMENT DESCRIPTION	HP/ W	DISCONNECT	ELECTRICAL DATA	A FLA	MCA	МОСР	PANEL	CIRCUIT NUMBER	FEEDER SIZE	NOTES
EF-G101	EXHAUST FAN	20.7 W	MOTOR RATED SWITCH	120 V/1-21 VA	0.0 A	0.0 A	15.0 A	2A1	57	2#12, #12G, 3/4"C	1
EF-G103	EXHAUST FAN	20.7 W	MOTOR RATED SWITCH	120 V/1-21 VA	0.0 A	0.0 A	15.0 A	2A1	57	2#12, #12G, 3/4"C	1
RTU-5	ROOF TOP UNIT		100 A	480 V/3-49302 VA	59.3 A	66.8 A	90.0 A	4B1	2,4,6	3#4, #8G, 1"C	2,3,4

GENERAL MECHANICAL EQUIPMENT CONNECTION NOTES:

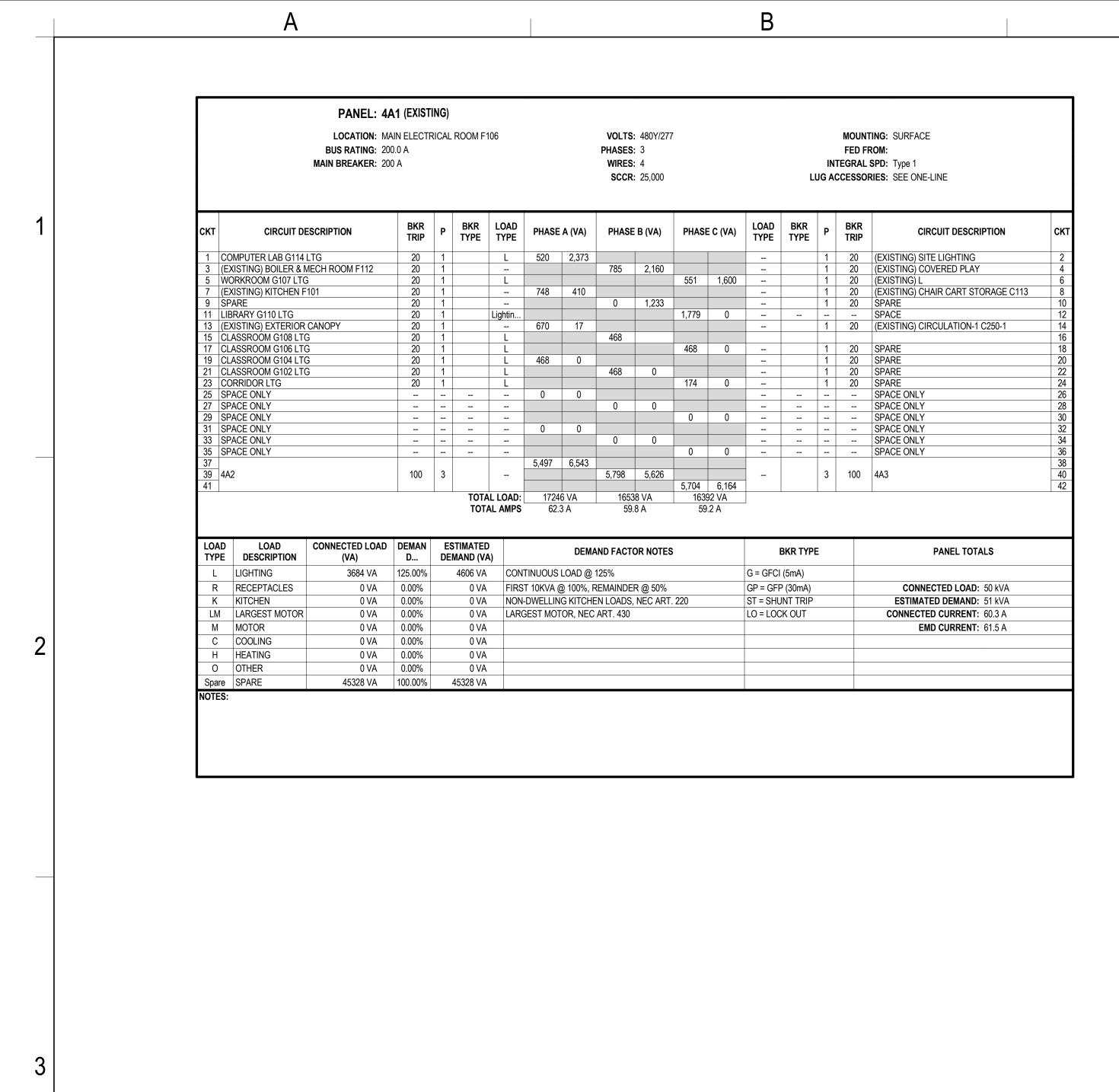
- A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY DIFFER. COORDINATE WITH MECHANICAL SUBMITTALS FOR ACTUAL LOADS, CIRCUIT AMPACITY, AND OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO MAKING ELECTRICAL CONNECTIONS.
 B. LOCATE ALL DISCONNECTING MEANS PER NEC AND AHJ REQUIREMENTS. STARTERS ARE SEPARATELY MOUNTED UNLESS OTHERWISE NOTED.
 C. ALL DISCONNECTS ARE 3 POLE UNLESS OTHERWISE NOTED.

MECHANICAL EQUIPMENT SCHEDULE NOTES:

- POWER TO MOTORIZED DAMPER THROUGH UNIT.
 VFD PROVIDED BY DIVISION 23 AND CONNECTED BY DIVISION 26.
- FURNISH DUCT SMOKE DETECTOR FOR INSTALLATION BY DIVISION 23 CONTRACTOR. HVAC UNITS OVER 2000CFM TO HAVE DUCT DETECTOR IN THE RETURN AIR DUCT. COORDINATE WITH DIVISION 23 FOR QUANTITY REQUIRED. PROVIDE CONNECTION AT HVAC
- UNIT FOR SHUTDOWN ON ALARM AND CONNECTION TO THE FIRE ALARM CONTROL PANEL FOR DETECTOR CONNECTION AS REQUIRED. ALL WIRING TO BE IN EMT CONDUIT.
- 4 DISCONNECTING MEANS TO BE NEMA 3R RATED, FURNISHED BY RTU MANUFACTURER AND INSTALLED BY DIVISION 26.



E7.1



		LOCATION: MABUS RATING: 20 MAIN BREAKER: 20	0.0 A	RICAL ROOM F1	06			PHASES:		1			LUC		FED F	TING: SURFACE ROM: SPD: Type 1 RIES: SEE ONE-LINE DIAGRAM
СКТ	CIRCUIT DE	SCRIPTION	BKR TRIP	P BKR TYPE	LOAD TYPE	PHASE	A (VA)	PHASE	B (VA)	PHASI	E C (VA)	LOAD TYPE	BKR TYPE	Р	BKR TRIP	CIRCUIT DESCRIPTION
	BRARY G110 PROJEC		20	1	R	500	500					R		1	20	COMPUTER LAB G114 PROJECTOR
	BRARY G110 RECEPT BRARY G110 RECEPT		20	1	R R			1,080	360	540	360	R R		1	20 20	COMPUTER LAB G114 COMPUTER LAB G114
	BRARY G110 PRINTER		20	1	R	1,180	360			340	300	R		1	20	COMPUTER LAB G114
9 LI	BRARY G110 FRONT	DESK	20	1	R			540	360			R		1	20	COMPUTER LAB G114
	BRARY G110 RECEPT		20	1	R	360	720			360	720	R		1	20	COMPUTER LAB G114
	ORKROOM G112 REC XISTING) BOILER & M		20	1	R R	360	720	720	1,000			R R		1	20 20	COMPUTER LAB G114 CLASSROOM G106 PROJECTOR
17 W	ORKROÓM G112 PRI	NTER	20	1	R			, 25	.,000	1,000	720	R		1	20	CLASSROOM G106 RECEPTACLES
	ORKROOM G112 PRI		20	1	R	1,000	720	540	700			R		1	20	CLASSROOM G106 RECEPTACLES
	BRARY G110 RECEPT ORKROOM G112 AC F		20	1	R R			540	720	540	720	R R		1	20 20	CLASSROOM G108 RECEPTACLES CLASSROOM G108 RECEPTACLES
25 W	ORKROOM G112 AC F		20	1	R	1,720	500			U 10	120	R		1	20	CLASSROOM G108 CHARGING CAB
	XISTING) EF-24	0011110110 0100	20	1				156	540	- 10	222			1	20	(EXISTING) IT SPECIALIST C118
	EXISTING) CAFETERIA EXISTING) CUSTODIAL		20	1		900	720			540	900	 R		1	20 20	(EXISTING) FLEX CONF ROOM B111 COMPUTER LAB G114
	XISTING) F104, F102	. 0101010021104	20	1		300	120	742	180					1	20	(EXISTING) FLEX CONF ROOM B111
	XISTING) CISRCULAT		20	1		4.000	000			900	540			1	20	(EXISTING) IT SPECIALIST C118
	EXISTING) SPEECH OF EXISTING) SPEECH OF		20	1		1,080	360	1,080	500			R R		1	20 20	COMPUTER LAB G114 RECEPTACLES COMPUTER LAB G114 CHARGING CAB
	XISTING) TOILET F10		20	1				1,000	300	392	180	0		1	20	CORRIDOR ADA DOOR OPERATOR
43 (E	XISTING) R STAGE C		20	1		360	1,200							1	20	(EXISTING) GYM PROJECTOR
	EXISTING) F105, F101 EXISTING) ROOF TOP	LINIT DTI I O	20	1				360	180	180	2,456			1	20 20	(EXISTING) HVAC CONTROLS
	XISTING) ROOF TOP		20	1		360	1,200			100	2,430			1	20	(EXISTING) COMMONS PROJECTOR (EXISTING) STGE C107
51 (E	XISTING) STORAGE (C105A	20	1			1,200	180	360					1	20	(EXISTING) STAGE C107
	AND DRYERS CIRC G EXISTING) STAGE STO		20	1	M 	1,260	96			600	720			1	20 20	(EXISTING) PE INSTRUCTOR OFFICE C111 (EXISTING) MONUMENT SIGN
	ESTROOM G101	MARE CIUIA	20	1	L; R; M	1,200	90	466	540					1	20	(EXISTING) MONOMENT SIGN (EXISTING) SERVICE ENCLOSURE X003
59 (E	XISTING) STORAGE (20	1						0	180			1	20	(EXISTING) MAIN ENTRY WET LOCATION
	EXISTING) STAGE C10 EXISTING) STAGE C10		20	1		360	300	360	500					1	20 20	(EXISTING) DOOR LOCKS (EXISTING) IRRIGATION CONTROL
	AND DRYER GIRLS	ı	20	1				300	300	500	500			1	20	(EXISTING) INNIGATION CONTROL
67 H	AND DRYER BOYS		20	1		500	500							1	20	(EXISTING) SUMP PUMP
	LASSROOM G102 PRO LASSROOM G102 CHA		20	1	R R			500	500	500	720	 R		1	20 20	(EXISTING) SUMP PUMP CORRIDOR RECEPTACLES
	LASSROOM G102 REC		20	1	R	720	360			300	120	R		1	20	CORRIDOR DF-1
	LASSROOM G102 REC		20	1	R			720	540			R		1	20	LIBRARY G110 RECEPTACLES
	LASSROOM G104 PRO LASSROOM G104 CHA		20	1	R R	500	0			500	0			1	20 20	SPARE SPARE
	LASSROOM G104 REC		20	1	R	000		720	0					1	20	SPARE
83 CI	LASSROOM G104 REC	CEPTACLES	20	1	R	4000	10.1/4	4444	4) (4	720	0			1	20	SPARE
					L LOAD: AL AMPS	1833 154	.6 A	1444 120	.4 A		09 VA 3.5 A					
LOAD	LOAD	CONNECTED LOAD	DEMAN	ESTIMATED			DEM	ND EACT	OD NOTES				SKR TYPE			PANEL TOTALS
TYPE	DESCRIPTION LIGHTING	(VA)	D	DEMAND (VA	<u> </u>	TINII IOU IO		AND FACTO	ON NOTES							FANEL IUIALS
R	RECEPTACLES	68 VA 26280 VA	125.00% 69.03%	85 VA 18140 VA		TINUOUS		125% REMAINDEI	R @ 500/			G = GFCI GP = GFP	, ,			CONNECTED LOAD: 49 kVA
K	KITCHEN	0 VA	0.00%	0 VA			<u> </u>	EN LOADS,		220		ST = SHU	, ,			ESTIMATED DEMAND: 41 kVA
LM	LARGEST MOTOR	0 VA	0.00%	0 VA		SEST MOT				<u> </u>		LO = LOC				CONNECTED CURRENT: 134.9 A
М	MOTOR	641 VA	111.69%	716 VA												EMD CURRENT: 112.5 A
С	COOLING	0 VA	0.00%	0 VA												
Н	HEATING	0 VA	0.00%	0 VA												
0	OTHER	180 VA	100.00%	180 VA												
Spare	SPARE	21602 VA	100.00%	21602 VA												

