

BEAVERTON SCHOOL DISTRICT
MERLO STATION HIGH SCHOOL – CTE PROGRAM

BEAVERTON SCHOOL DISTRICT **OWNER/APPLICANT**

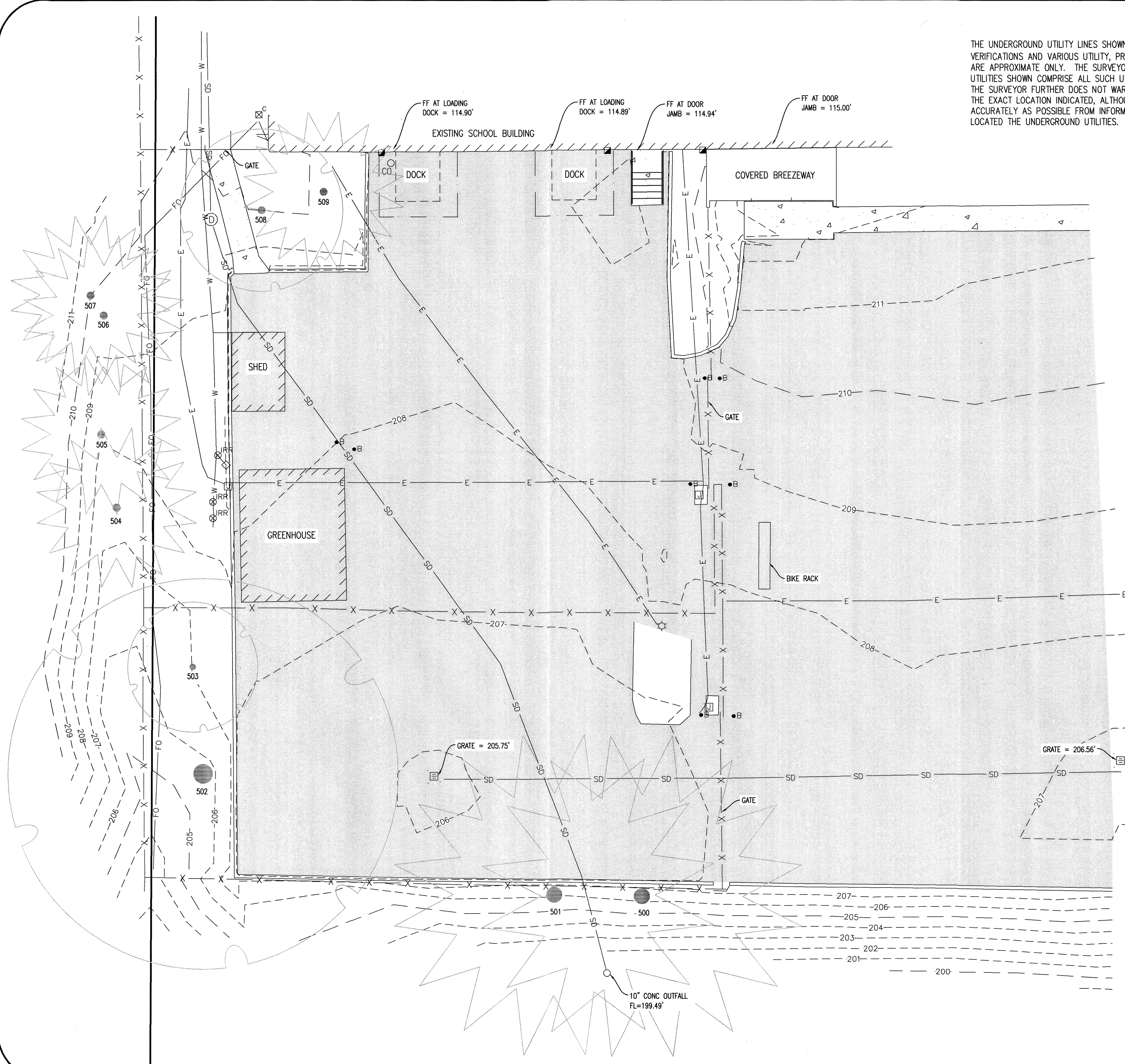
CIDA, INC. ARCHITECT / STRUCTURAL ENGINEER

R&W ENGINEERING, INC. **MEP ENGINEER**

JANET TURNER ENGINEERING, LLC CIVIL ENGINEER

TBD **GENERAL CONTRACTOR**

TBD **PRE-ENGINEERED STRUCTURE ENGINEER**



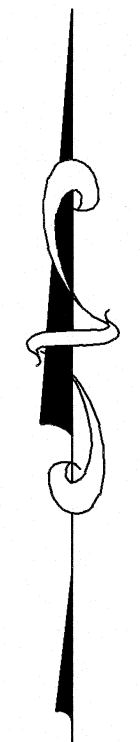
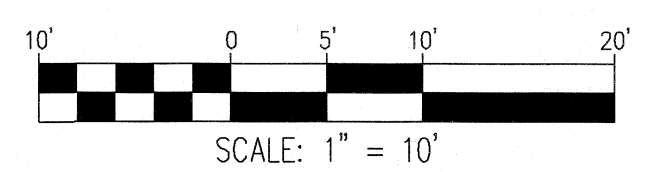
THE UNDERGROUND UTILITY LINES SHOWN HEREON ARE FROM A COMBINATION OF FIELD VERIFICATIONS AND VARIOUS UTILITY, PRIVATE, AND GOVERNMENT SUPPLIED "AS-BUILT" MAPS AND ARE APPROXIMATE ONLY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

BENCHMARK
WASHINGTON COUNTY #63,
ELEVATION 199.16'

TREE TABLE			
NO.	TRUNK SIZE	TYPE	Ø DRIP
500	20"	CONIFER	50'
501	20"	CONIFER	50'
502	26"	DECIDUOUS	60'
503	6"	DECIDUOUS	20'
504	12"	CONIFER	~25'
505	15"	CONIFER	~25'
506	10"	CONIFER	~25'
507	10"	CONIFER	~25'
508	14"	DECIDUOUS	~25'
509	16"	CONIFER	~25'

LEGEND

- CO CLEANOUT
- FF FINISHED FLOOR
- DECIDUOUS TREE
- EVERGREEN TREE
- BOLLARD
- DOWNSPOUT
- CATCH BASIN
- STORM DRAIN MANHOLE
- CLEANOUT
- STREET LIGHT
- JUNCTION BOX
- COMMUNICATION PEDESTAL
- WATER HOSE BIB
- BUILDING EAVES
- TREE DRIPLINE
- CHAIN LINK FENCE LINE
- 5 FOOT INTERVAL CONTOUR
- 1 FOOT INTERVAL CONTOUR
- FO EXISTING UNDERGROUND FIBER OPTIC
- E EXISTING UNDERGROUND POWER
- SD EXISTING STORM DRAIN
- W EXISTING WATER MAIN
- EXISTING CONCRETE
- ASPHALT



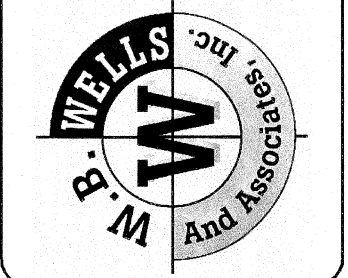
B-30-2019

REVISIONS:			
DRAWN BY: ASR	CHECKED BY: BB	DATE: 08-27-19	SCALE: 1"=10'
PLOT DATE: 08-27-19	JOB NO: 5142-001	FILE: 5142-001 TSDWG	

EXISTING CONDITIONS MAP
FOR
MERLO HIGH SCHOOL
2302 SW MERLO CT
PORTION OF LOT 8, "MERLO STATION"
LOCATED IN THE SE 1/4 OF SECTION 6, T1S, R1W, W.M.
IN THE CITY OF BEAVERTON, WASHINGTON COUNTY, OREGON

REGISTERED
PROFESSIONAL
LAND SURVEYOR
OREGON
JANUARY 18, 2002
BRETT D. BEDORE
688339
EXPIRES 12-31-19

W.B. WELLS
and associates, inc.
ENGINEERS/SURVEYORS/PLANNERS
6130 NE 78TH COURT, #C-11
PORTLAND, OREGON 97218
PHONE (503) 284-5886 FAX (503) 284-8330
e-mail address: info@wbwells.com

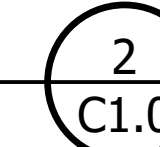
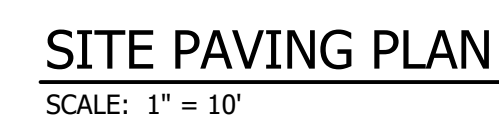
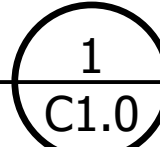
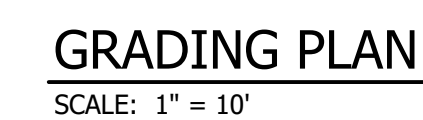


POINT #	DESCRIPTION	ELEV	NORTHING	EASTING
1		197.46	5131.33	5586.47
31	STP-MAG	198.06	5135.29	5309.66
32	STP-MAG	207.25	5208.79	5349.41
34	STP	209.90	5312.00	5264.26

1. REFER TO SHEET C3.0 FOR LEGENDS, GENERAL NOTES AND DETAILS.

1. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT PER DETAIL 1, SHEET C3.0.
CONSTRUCT NEW FULL DEPTH CURB PER DETAIL 2, SHEET C3.0.
- 1A. SAWCUT AND REMOVE EXISTING ASPHALT AND/OR SOFTSCAPE, AND CONSTRUCT
DEEP FULL DEPTH CURB PER DETAIL 2A, SHEET C3.0.
2. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT PER DETAIL 1, SHEET C3.0.
CONSTRUCT CONCRETE CURB AT SANDBOX PER SECTION ON ARCHITECTURAL PLANS.
3. SAWCUT AND REMOVE EXISTING ASPHALT AND/OR LANDSCAPE, PER DETAIL 1, SHEET
C3.0. PLACE NEW PAVEMENT PER DETAIL 4, SHEET 3.0 AND AS PER SPECIFICATIONS.
4. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT PER DETAIL 1, SHEET C3.0.
PLACE NEW AT-GRADE CONCRETE SLAB ABUTTING ASPHALT PATCH PER THE
CONCRETE SECTION NOTED HEREIN, AND AS PER DETAIL 3, SHEET C3.0.
5. THICKENED EDGE OF MONOLITHIC CONCRETE SLAB ALONG THE WEST EDGE, AS PER
STRUCTURAL SLAB DETAILS.

	CONCRETE SLAB 8" DEPTH, 4000 PSI AIR-ENRICHED CONCRETE, OVER 6" COMPACTED DEPTH 3/4"-0 CRUSHED ROCK, OVER APPROVED SUBGRADE. (REFER TO STRUCTURAL PLANS FOR REINFORCEMENT)
	SANDBOX (REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR SECTION)
	ASPHALT PAVEMENT 3" COMPACTED LIFT ASPHALT PAVEMENT, OVER 6" COMPACTED DEPTH 3/4"-0 CRUSHED ROCK, OVER APPROVED SUBGRADE (SEE SECTION, SHEET <u>C3.0</u>)
	ASPHALT OVERLAY MILL EXISTING ASPHALT, GRIND 2" DEPTH. NEW 2" MIN. COMPACTED LIFT ASPHALT PAVEMENT, OVER EXISTING MILLED ASPHALT SURFACE
	PAVEMENT STRIPING REFER TO ARCHITECTURAL PLANS FOR STRIPING LOCATION AND PATTERN, AND TO SPECIFICATIONS FOR PAINT MATERIAL



REGISTERED PROFESSIONAL
ENGINEER
56487PE
JANET L. TURNER
OREGON
JULY 09, 2002
EXPIRATION DATE: 06/30/20

SCHEMATIC DESIGN DOCUMENTS
DESIGN DEVELOPMENT DOCUMENTS
DESIGN DEVELOPMENT DRM UPDATES
50% CD DOCUMENTS
100% CD DOCUMENTS
TYPE 1 APPLICATION
BID DOCUMENTS

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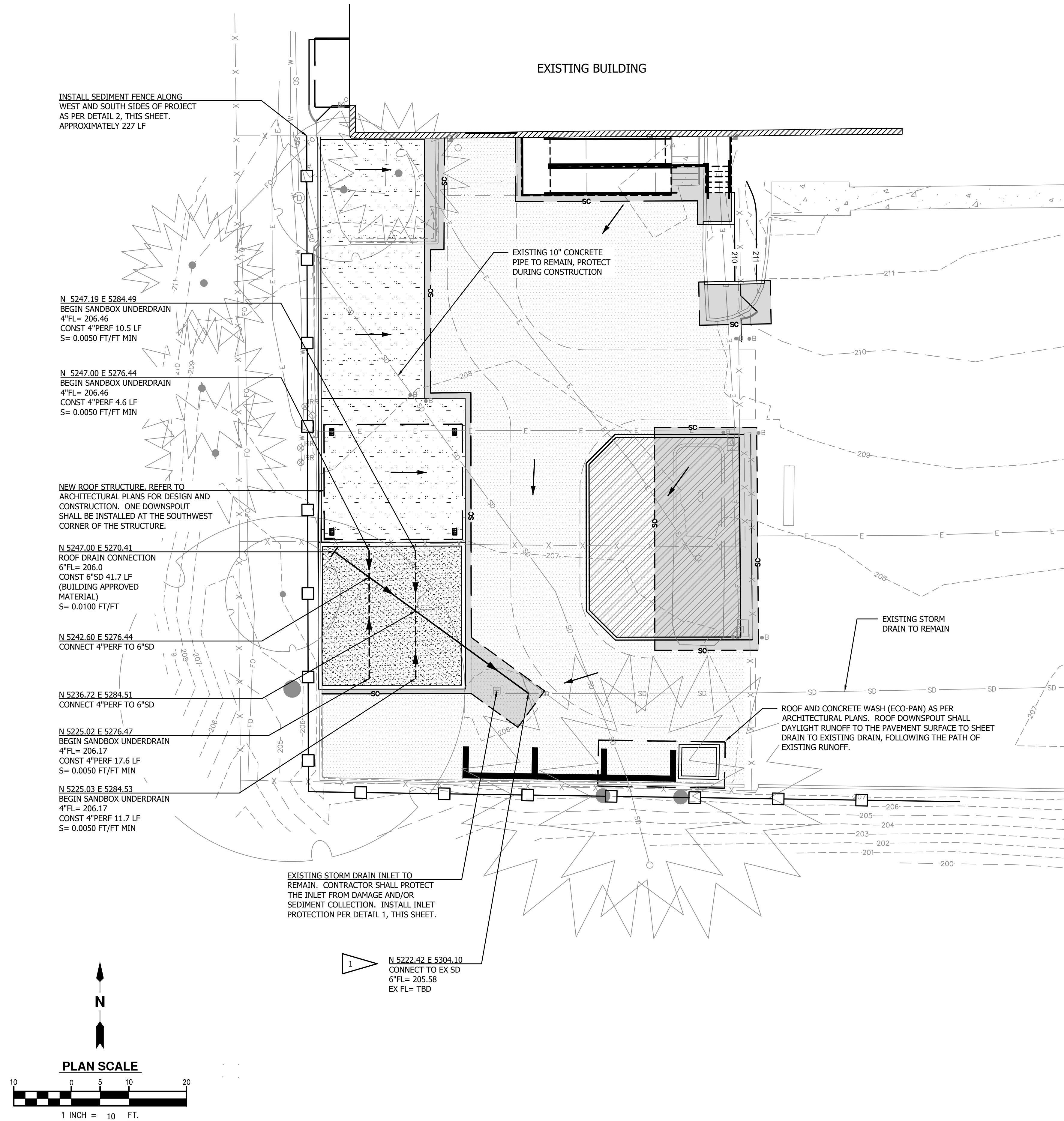
15895 SW 72ND AVE SUITE 200
PORTLAND, OREGON 97224
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TENANT IMPROVEMENT FOR:
BEAVERTON SCHOOL DISTRICT: MERLO
STATION H.S. CTE PROGRAM
1841 SW MERLO DR. BEAVERTON, OREGON 97006

C1.0

190037.01
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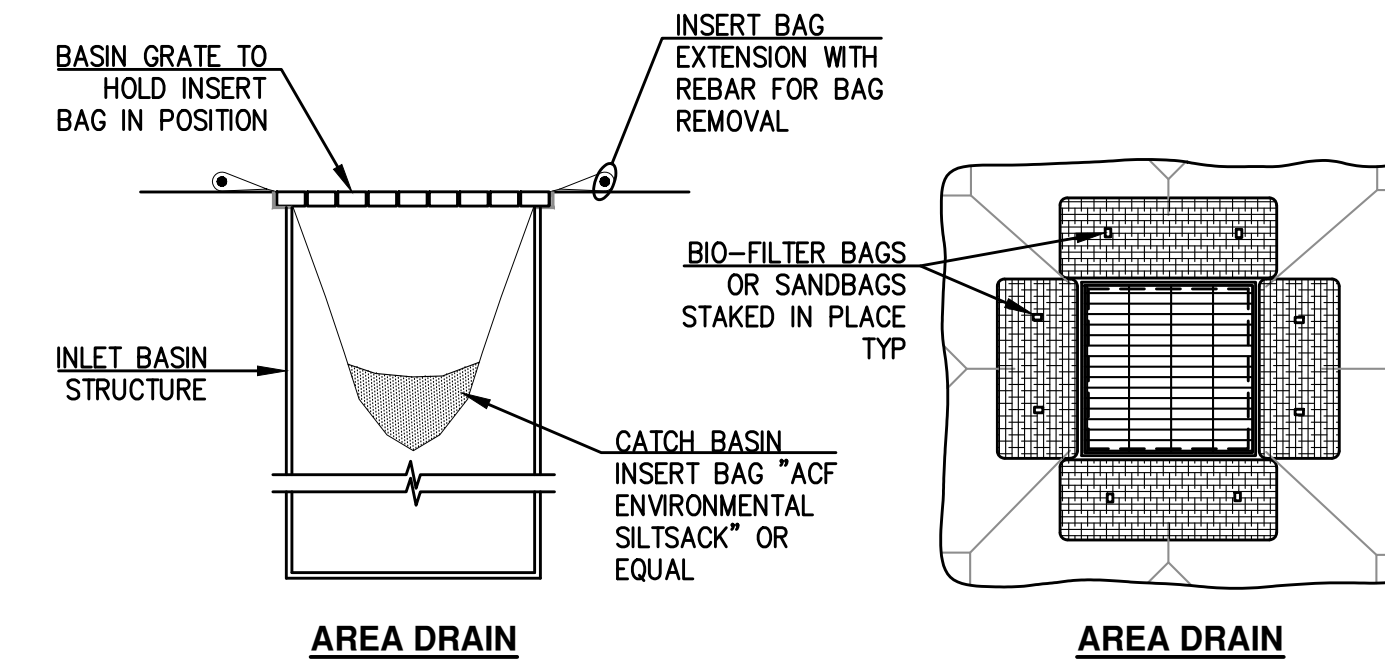


SHEET NOTES

1. REFER TO SHEET C3.0 FOR LEGENDS, GENERAL NOTES AND DETAILS.
2. REFER TO SHEET C1.0 FOR CONTROL POINT TABLE.

CONSTRUCTION NOTES

1. EXPOSE EXISTING STORM PIPE AT PROPOSED CONNECTION LOCATION AND CONFIRM PIPE SIZE, DEPTH, LOCATION AND CONDITION, AT LEAST 5 DAYS PRIOR TO START OF STORM DRAIN WORK AND NOTIFY ENGINEER OF FINDINGS.

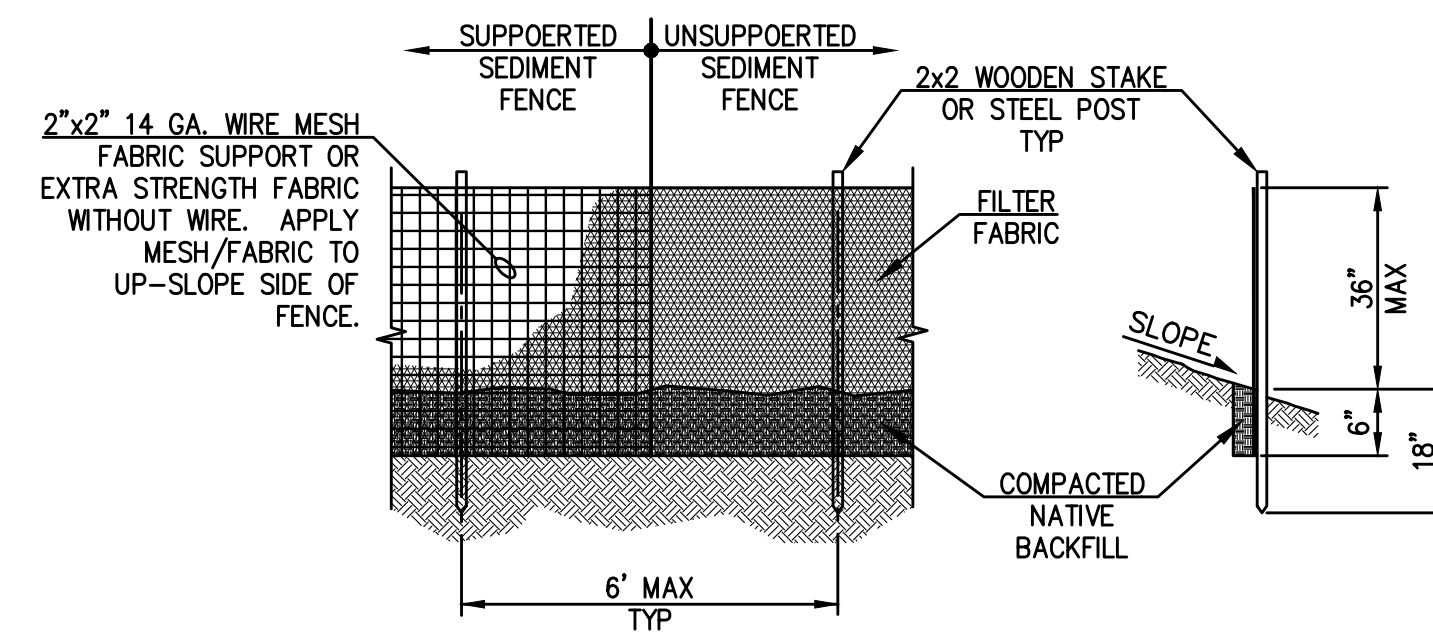


NOTES

1. PRIOR TO 1st PAVEMENT LIFT, REMOVE BIO-BAG/SANDBAG BARRIERS AND INSTALL BASIN INSERT BAG OR CURB INLET SEDIMENT DAM AT ALL INLET STRUCTURES.

1 DRAINAGE INLET STRUCTURE PROTECTION

No Scale

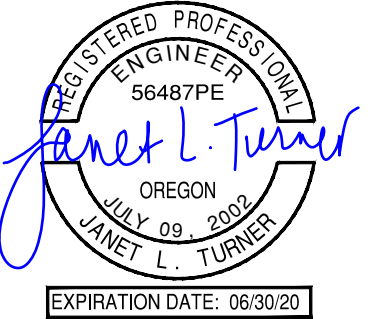


NOTES

1. MAX GROUND SLOPE (PERPENDICULAR TO FENCE):
SUPPORTED FENCE - 1H:1V
UNSUPPORTED FENCE - 4H:1V
2. SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0° TO 120°.
3. FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POSTS WITH A MINIMUM OF 6 INCH OVERLAP AND BOTH ENDS SECURED TO POST.
4. CONTINUOUS BIO BERM MAY BE INSTALLED AT UPHILL BASE OF FILTER FABRIC IN LIEU OF BURYING BOTTOM OF FABRIC.
5. USE STAPLES OR WIRE RINGS TO ATTACH FILTER FABRIC TO WIRE SUPPORT FABRIC.

2 SEDIMENT FENCE

No Scale



SCHEMATIC DESIGN DOCUMENTS
DESIGN DEVELOPMENT DOCUMENTS
DESIGN DEVELOPMENT DRN UPDATES
50% CD DOCUMENTS
100% CD DOCUMENTS
TYPE 1 APPLICATION
BID DOCUMENTS

ISSUED DATE
1 05/06/19
2 06/17/19
3 08/16/19
4 10/03/19
5 11/05/19
6 11/14/19
7 12/05/19

CONTRACTOR SHALL VERIFY AND CONFIRM ALL CONDITIONS AND DIMENSIONS AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK.



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TENANT IMPROVEMENT FOR:
BEAVERTON SCHOOL DISTRICT: MERLO
STATION H.S. CTE PROGRAM
1841 SW MERLO DR. BEAVERTON, OREGON 97006

C2.0

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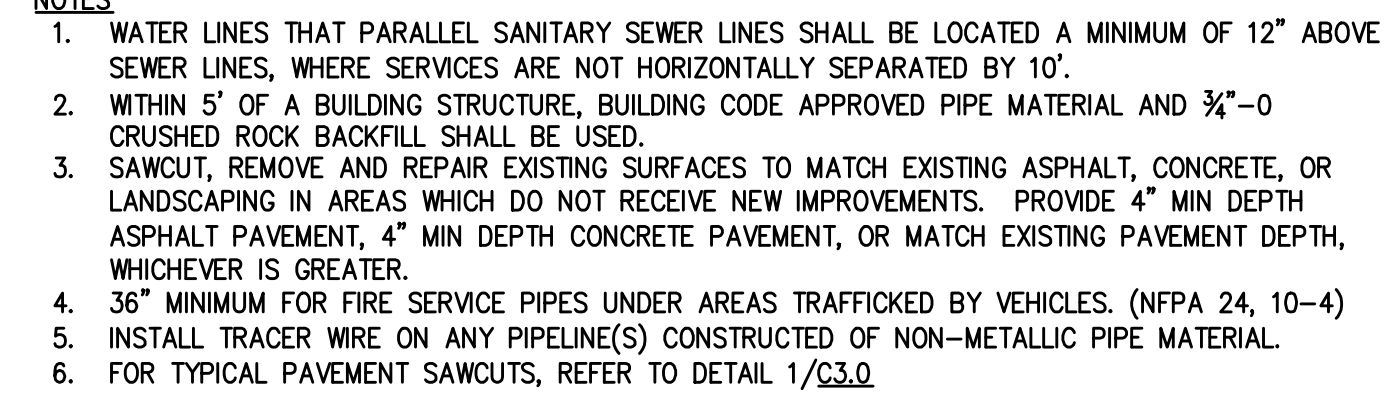
SITE STORM DRAIN



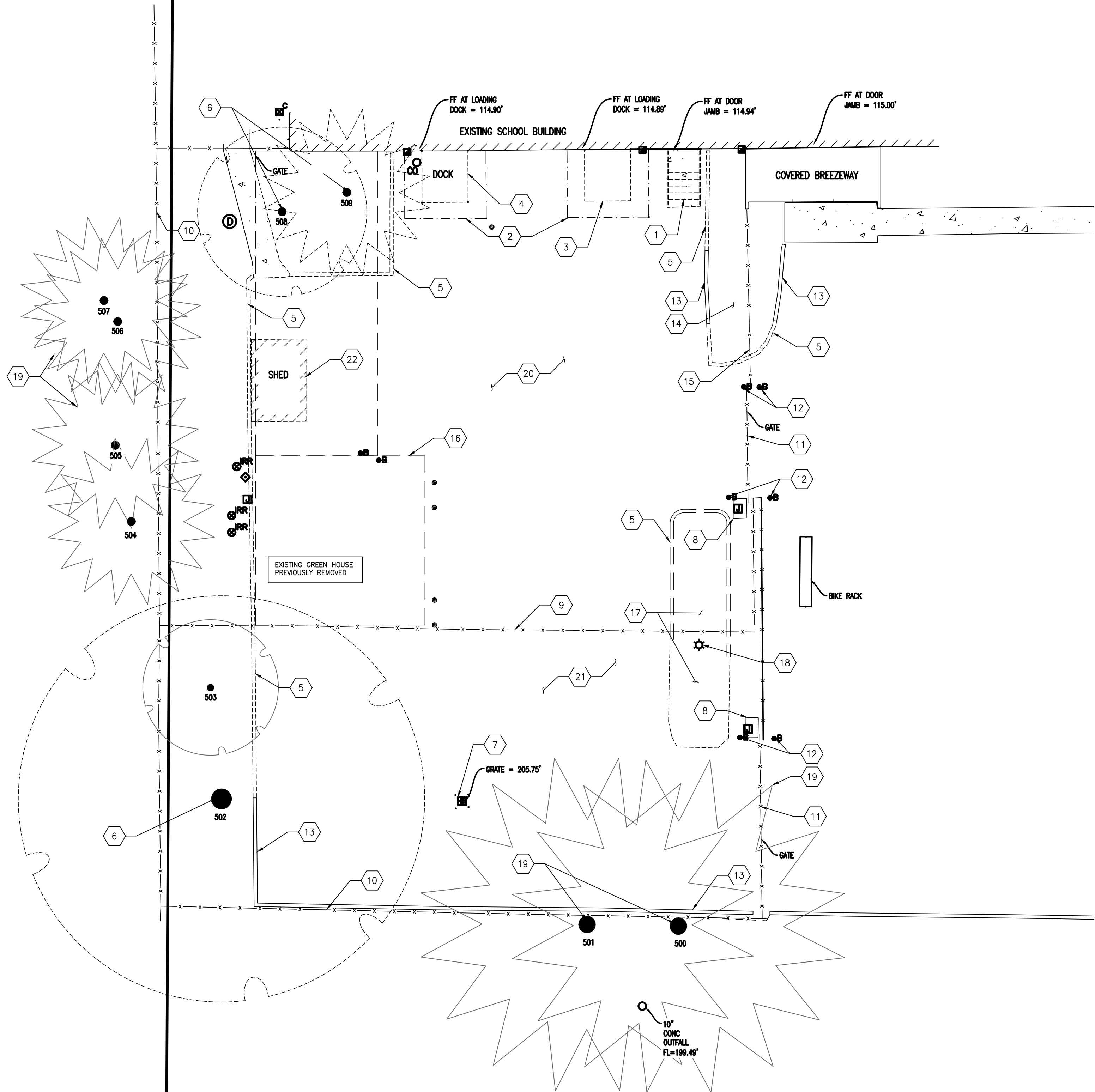
1. EXPANSION JOINTS IN NON-EXTRUDED CURB. CONTRACTION JOINTS IN EXTRUDED CURB.
2. EXPANSION JOINTS SHALL BE PLACED EVERY 15' IN NON-EXTRUDED CURB AND GUTTER. CONTRACTION JOINTS SHALL MATCH SIDEWALK CONTRACTION JOINTS.



CO	CLEANOUT
FF	FINISHED FLOOR
	DECIDUOUS TREE
	EVERGREEN TREE
	BOLLARD
	DOWNSPOUT
	CATCH BASIN
	STORM DRAIN MANHOLE
	CLEANOUT
	STREET LIGHT
	JUNCTION BOX
	COMMUNICATION PEDESTAL
	WATER HOSE BIB
	BUILDING EAVES
	TREE DRIPLINE
	CHAIN LINK FENCE LINE
	5 FOOT INTERVAL CONTOUR
	1 FOOT INTERVAL CONTOUR
	EXISTING UNDERGROUND FIBER OPTIC
	EXISTING UNDERGROUND POWER
	EXISTING STORM DRAIN
	EXISTING WATER MAIN
	EXISTING CONCRETE
	ASPHALT



5 TRENCHING & BACKFILL SECTION



KEYNOTES

- 1 EXISTING CONCRETE STAIR TO BE REMOVED FOR NEW STAIR AND ADA RAMP – SEE A0.1 FOR NEW PIPE RAILING, AND A1.3 FOR RAMP
- 2 EXISTING CANOPY TO REMAIN.
- 3 EXISTING DOCK LEVELER TO BE REMOVED.
- 4 EXISTING DOCK LEVELER TO REMAIN – REPAIR AS REQUIRED FOR FULL OPERATION.
- 5 EXISTING CONCRETE CURBING TO BE REMOVED.
- 6 EXISTING TREES TO BE REMOVED.
- 7 EXISTING CATCH BASIN TO REMAIN. SEE CIVIL FOR PROTECTION, CLEANING AND ADDITIONAL WORK
- 8 EXISTING NON-FUNCTIONING GATE OPERATOR INCLUDING PAD TO BE REMOVED.
- 9 EXISTING FENCE LINE TO BE REMOVED.
- 10 EXISTING FENCE TO REMAIN – REPAIR RAILS & CHAIN LINK AS REQUIRED.
- 11 EXISTING MANUAL SLIDE GATE TO REMAIN – REPLACE ALL EXISTING OPERATIONAL PARTS (GLIDES & ROLLERS) FOR FULL – OPERATION COORDINATE W/ BSD FOR HASP & LOCK REQUIREMENTS.
- 12 EXISTING BOLLARD TO REMAIN
- 13 EXISTING CURBING TO REMAIN
- 14 EXISTING LANDSCAPING TO BE REMOVED – REPLACE FOR NEW CURB LIMITS. SEE CIVIL FOR LIMITS OF GRADING AND TIE-IN TO EXISTING ADJACENT GRADES.
- 15 EXISTING FENCE – REMOVE ONE PANEL FOR INSTALLATION OF NEW SWING GATE. VERIFY LIMITS IN FIELD
- 16 EXISTING ASPHALT PAVING TO BE REMOVED FOR NEW PAD / STRUCTURES. – SEE CIVIL DRAWINGS FOR SAWCUT LIMITS
- 17 EXISTING GRAVEL / VEGETATION TO BE REMOVED.
- 18 EXISTING POLE MOUNTED LIGHT POLE – REPAIR.
- 19 EXISTING TREES – MAINTAIN / PRUNE / LIMB TO PROVIDE 18’ CLEAR ABOVE FINISH GRADE @ ASPHALT & PROGRAM AREA.
- 20 EXISTING ASPHALT TO REMAIN – PATCH AREAS OF DEGRADATION – GRIND AND OVERLAY – SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
- 21 EXISTING DEGRADED ASPHALT PAVING / GRAVEL – CLEAN & GRIND – VERIFY EXISTING CONDITIONS – SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
- 22 EXISTING SHED TO BE RELOCATED – COORDINATE LOCATION ON SITE ADJACENT TO PORTABLES WITH BSD. CONTRACTOR TO INSTALL AT NEW LOCATION ON LEVEL CONCRETE BLOCKS



SITE DEMO PLAN

SEE EXISTING CONDITIONS SURVEY
FOR ADDITIONAL INFORMATION

SEE CIVIL DRAWINGS FOR
ADDITIONAL INFORMATION



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MERLO STATION H.S. CTE PROGRAM
1841 SW MERLO DR. BEAVERTON, OREGON 97006

SITE DEMO PLAN

A0.0

190037.01

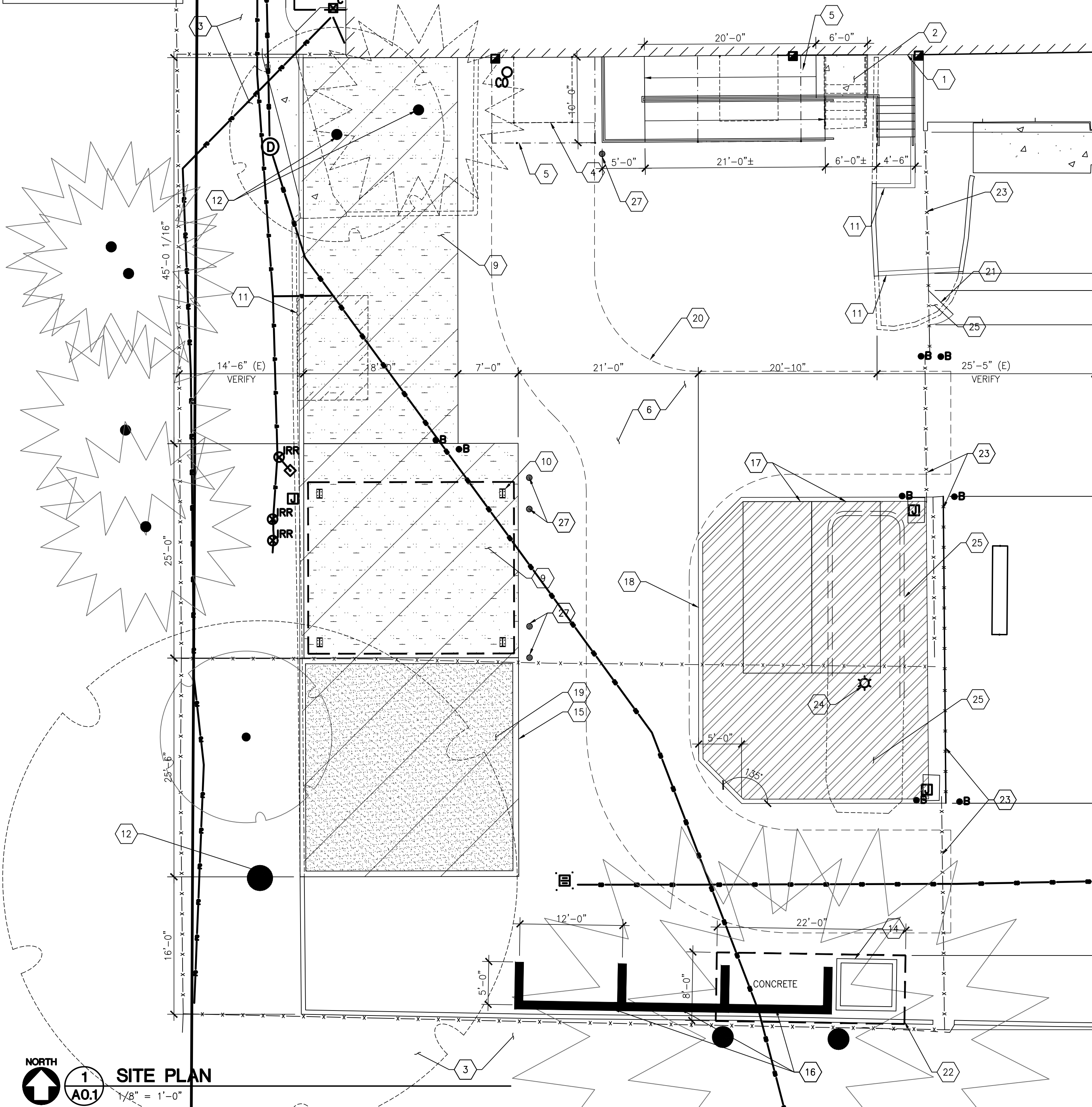
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SEE ARBORIST REPORT
FOR TREE REMOVAL
AND PROTECTION - BY
TERAGAN &
ASSOCIATES - DATED
11/1/19

SEE EXISTING CONDITIONS SURVEY
FOR ADDITIONAL INFORMATION

SEE CIVIL DRAWINGS FOR
ADDITIONAL INFORMATION

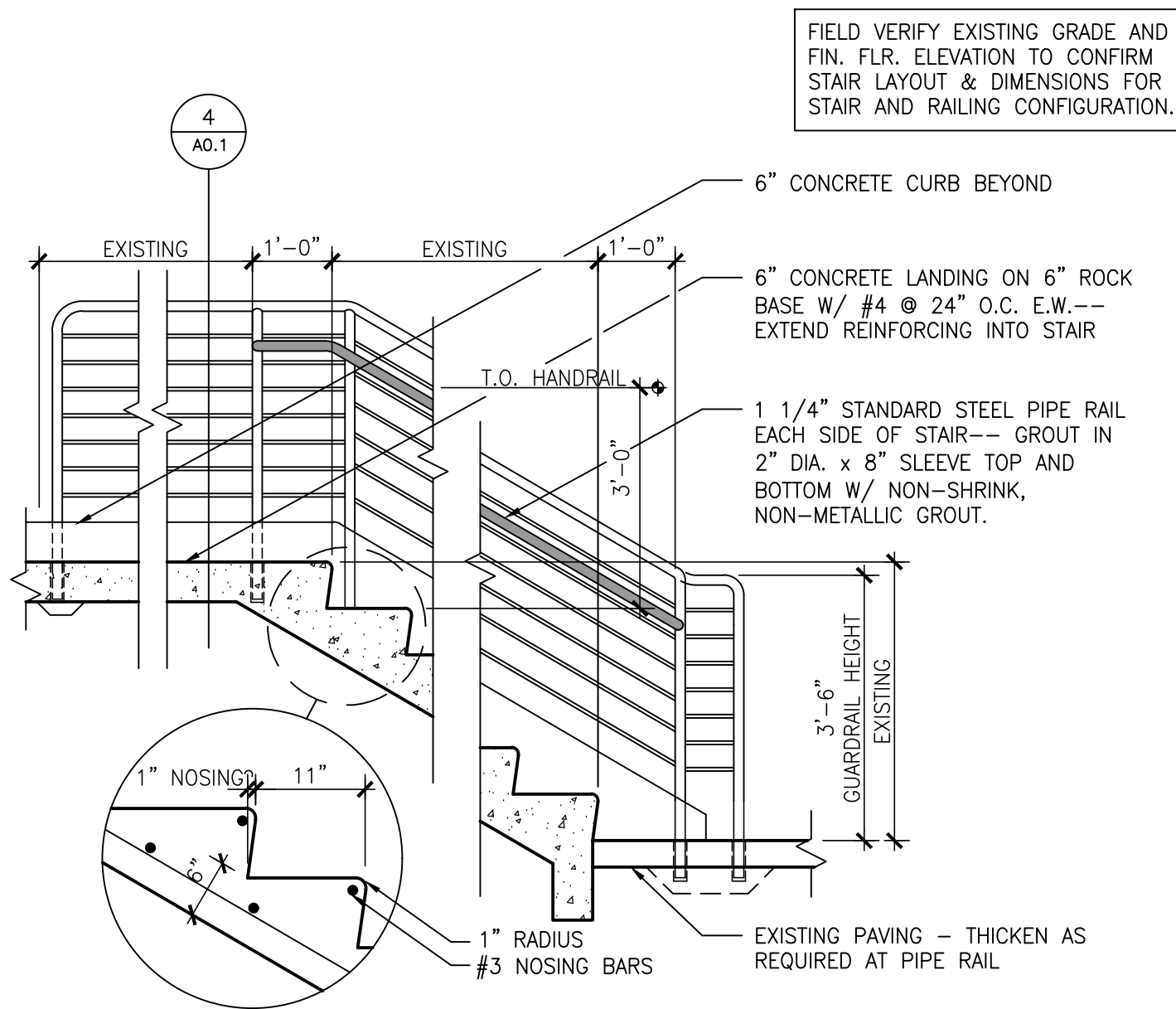
CONTRACTOR TO RELOCATE EXISTING
CONNEX BOX FROM PARKING LOT
TO PROGRAM AREA. COORDINATE
W/ BSD PRIOR TO MOVING



- KEYNOTES**
- EXISTING BUILDING (CONCRETE TILT PANEL CONSTRUCTION)
 - EXISTING CONCRETE STAIRS AND PIPE RAILING - REMOVE FOR NEW ACCESSIBLE RAMP AND STAIR - SEE A1.3
 - EXISTING LANDSCAPED AREA TO REMAIN
 - EXISTING DOCK LEVELER TO BE REFURBISHED - PROVIDE ALLOWANCE FOR REVIEW AND REPAIR PER SPECIFICATION ALLOWANCES SECTION
 - EXISTING BUILDING MOUNTED CANOPY TO REMAIN
 - EXISTING ASPHALT PAVING - PATCH AREAS OF DETERIORATION AND SEAL COAT WITHIN NEW FENCED YARD - SEE A0.0 FOR ADDITIONAL INFO - SEE CIVIL PLANS
 - NEW AIR COMPRESSOR - OWNER PROVIDED/CONTRACTOR INSTALLED - COORDINATE POWER SUPPLY
 - NEW DUST COLLECTOR SYSTEM - PER MECHANICAL - COORDINATE DUCT PENETRATION AND POWER SUPPLY
 - NEW 8" 4000 PSI AIR-ENTRAINED CONCRETE SLAB ON GRADE W/ LIGHT BROOM FINISH - REINFORCEMENT PER STRUCTURAL - MAX SLOPE 1%

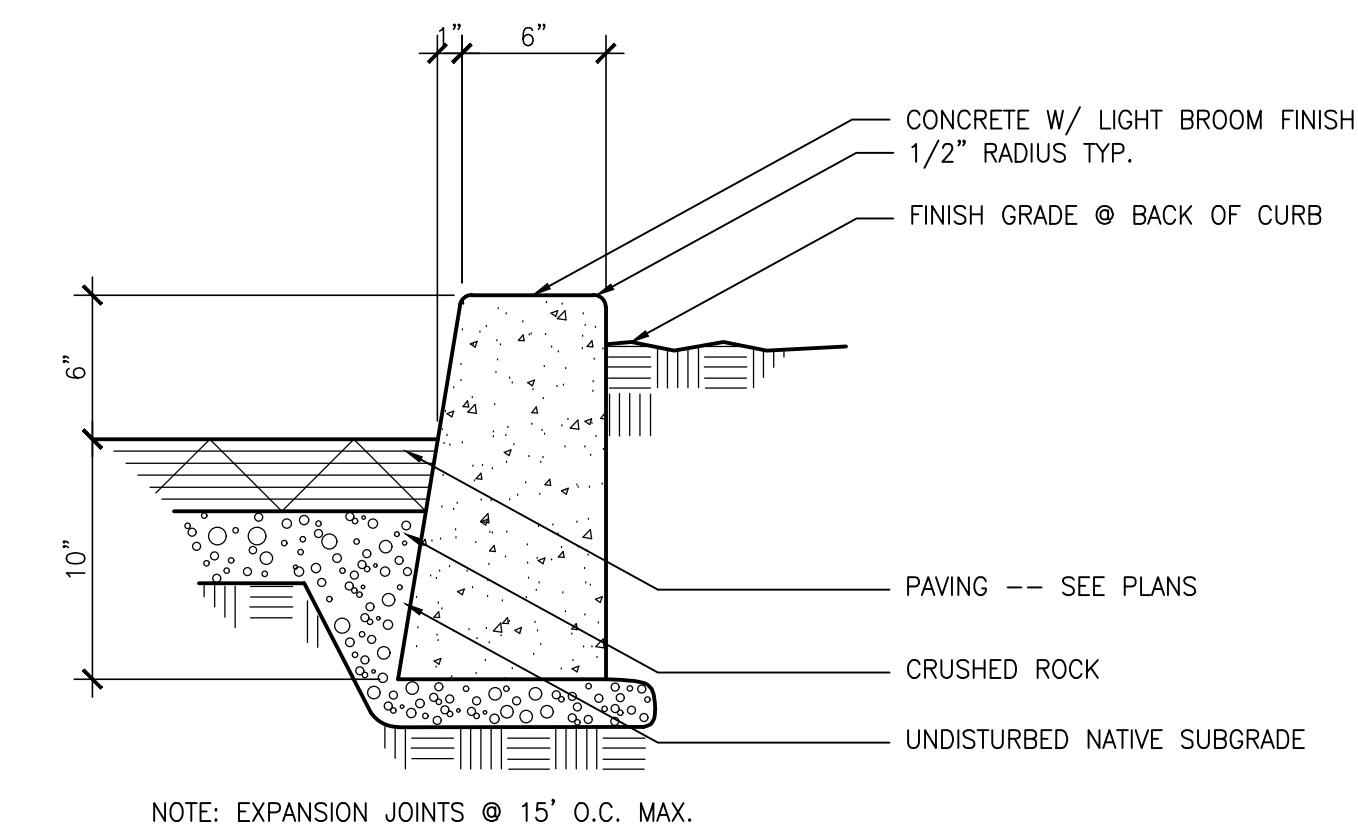
- PRE-ENGINEERED METAL COVER AT CONCRETE PAD WORK SPACE. SEE A1.3 FOR ADDITIONAL INFORMATION
- CAST-IN PLACE CONCRETE CURB PER DETAIL 7/A0.1
- EXISTING TREE TO BE REMOVED - SEE ARBORIST REPORT BY TERAGAN & ASSOCIATES DATED 11/1/19
- EQUIPMENT SCREEN - NEW 6'-0" HIGH BLACK VINYL CHAINLINK FENCING W/ 4' WIDE GATE
- PRE-FABRICATED STEEL CONCRETE WASHOUT BASIN ECO-PAN 1.5 CUBIC YARD SMALL PAN
- 18" DEEP CONCRETE CURB (6" AFG) PER DETAIL 8/A0.1
- 32" HIGH BLOCK CONTAINMENT WALL FOR SITE MATERIAL STORAGE (GRAVEL) PER DETAIL 12/A0.1
- CONEX JOB SITE CONTAINER/BOX - OWNER PROVIDED, CONTRACTOR INSTALLED
- 4" WHITE PAINT STRIPED - MATERIAL STORAGE AREAS - RACKING AND BINS TO BE COORDINATED AND PROVIDED BY OWNER

- "SANDBOX" - PROVIDE COMPACTED SUBBASE BEHIND CONCRETE CURB - SANDBOX MATERIAL TO BE VERIFY WITH PROGRAM DIRECTOR
- 12' WIDE EQUIPMENT MANEUVERING AREA - FOR REFERENCE ONLY
- NEW 4' WIDE CHAIN LINK GATE AT EXISTING CHAIN LINK FENCING. PROVIDE PANIC HARDWARE FOR EGRESS FROM YARD. SEE A1.3 FOR ADDITIONAL INFORMATION
- LEAN-TO SHED ROOF OVER STORAGE AND CONCRETE WASHOUT BASIN
- EXISTING FENCING/GATE TO REMAIN - REPAIR AS REQUIRED
- EXISTING POLE MOUNTED LIGHT FIXTURE - REFURBISH AS REQUIRED
- NEW ASPHALT PAVING PER 11/A0.1 AT EXISTING LANDSCAPE AREA TO BE REMOVED
- NEW CANOPY OVER EQUIPMENT - MOUNT TO CONCRETE TILT PANEL. COORDINATE HEIGHT AND SIZE W/ DUST COLLECTOR HEIGHTS AND CLEARANCES - GUTTER WITH DAYLIGHT DOWNSPOUT
- CONCRETE FILLED STEEL PIPE BOLLARD - 8" Ø - SEE 11/A1.3 - PAINT SAFETY YELLOW



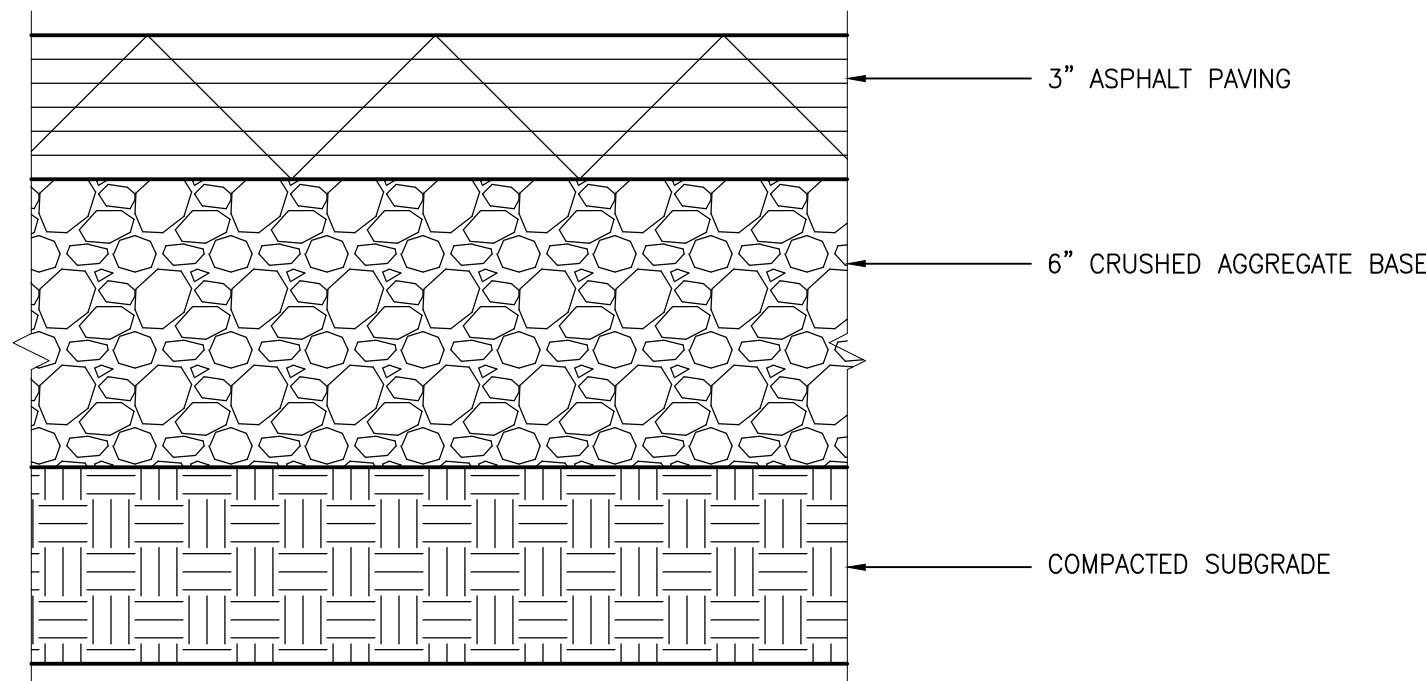
3 STEEL EXTERIOR STAIR - ELEVATION

A0.1 1/2" = 1'-0" 05712-05



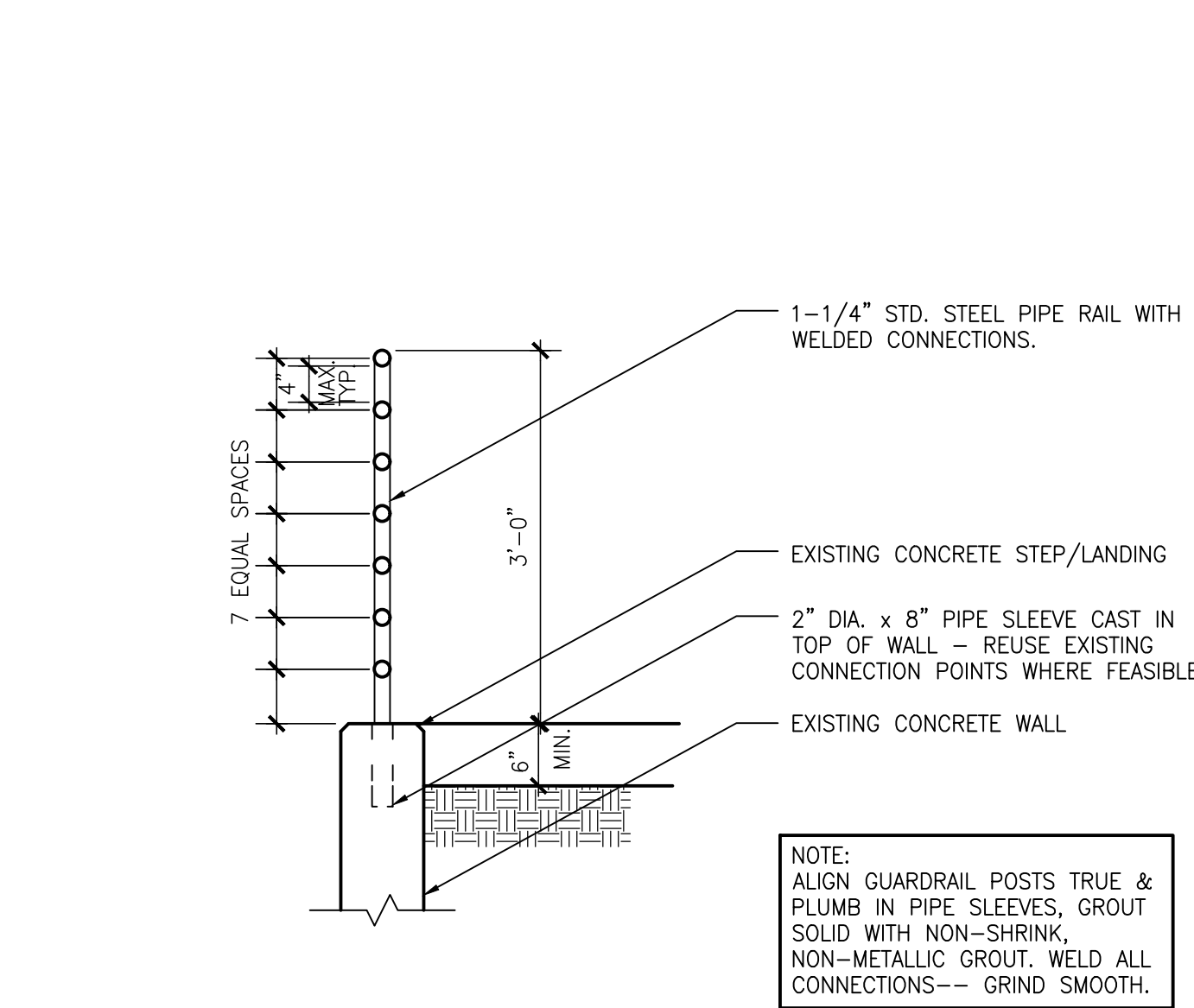
7 CAST-IN-PLACE VERTICAL CURB

A0.1 1-1/2" = 1'-0"



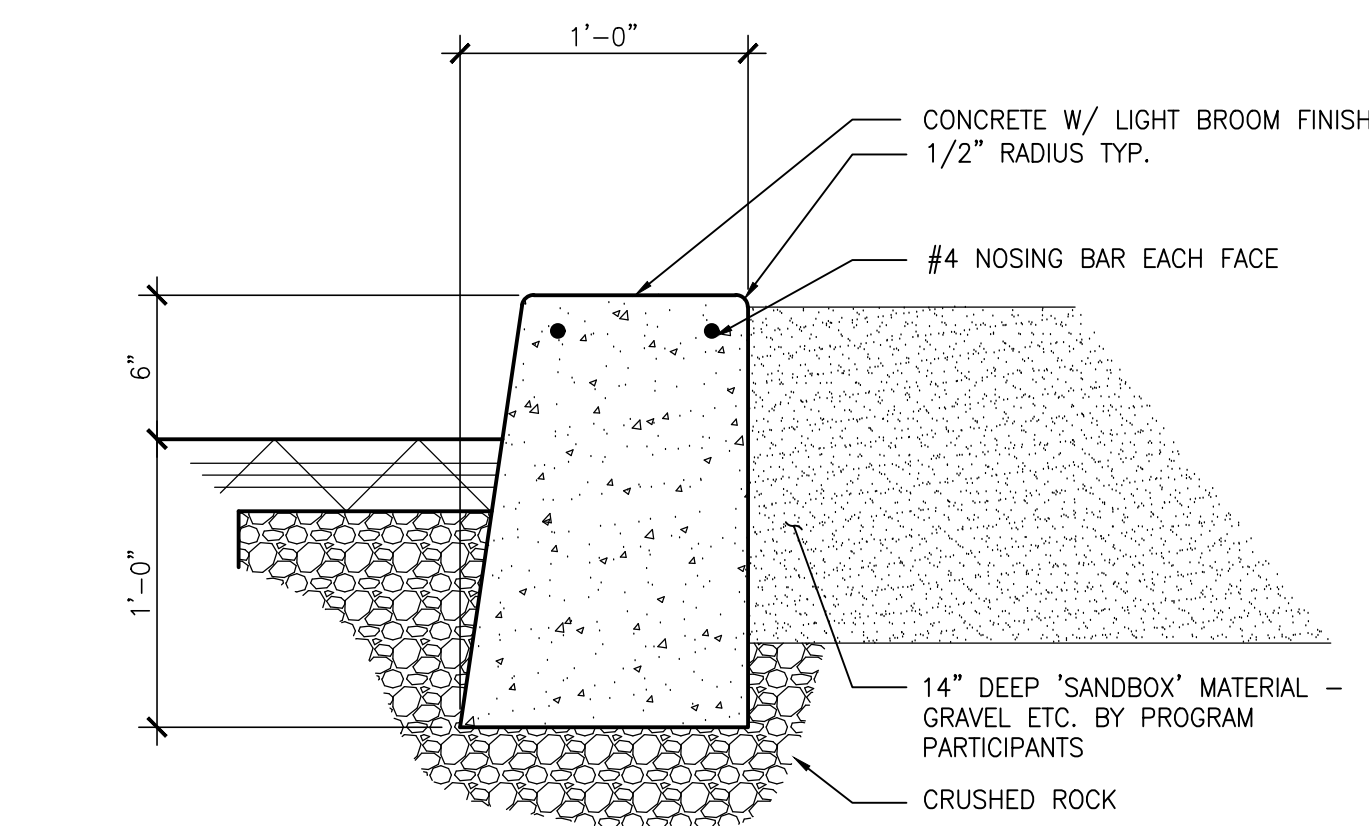
11 PAVING CROSS SECTION

A0.1 3" = 1'-0"



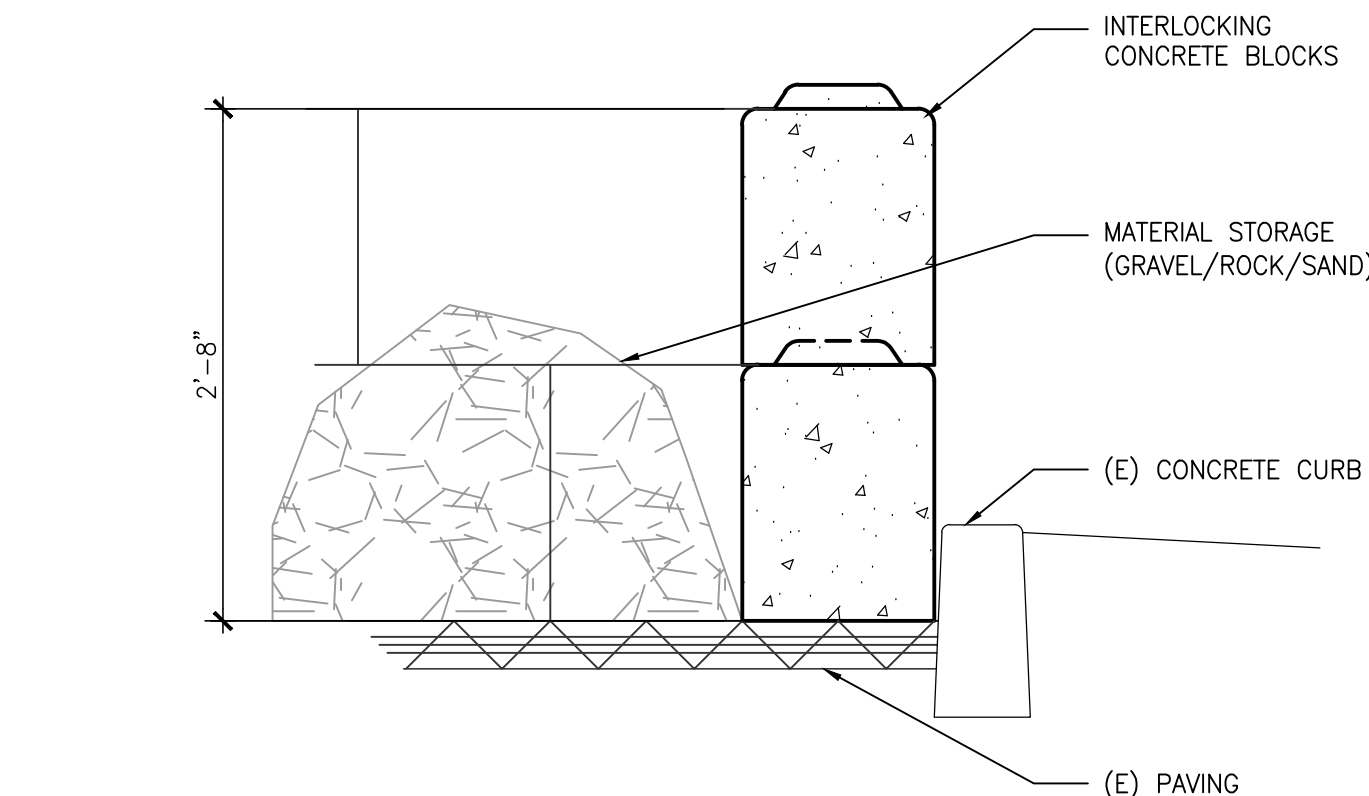
4 GUARDRAIL DETAIL

A0.1 3/4" = 1'-0" 05720-02



8 CONCRETE CURB AT "SANDBOX"

A0.1 1-1/2" = 1'-0"



12 MATERIAL STORAGE - CONCRETE BLOCK WALL

A0.1 1/2" = 1'-0"



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3 08/16/19							
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ARCHITECTURAL SITE
PLAN & DETAILS

A0.1

190037.01

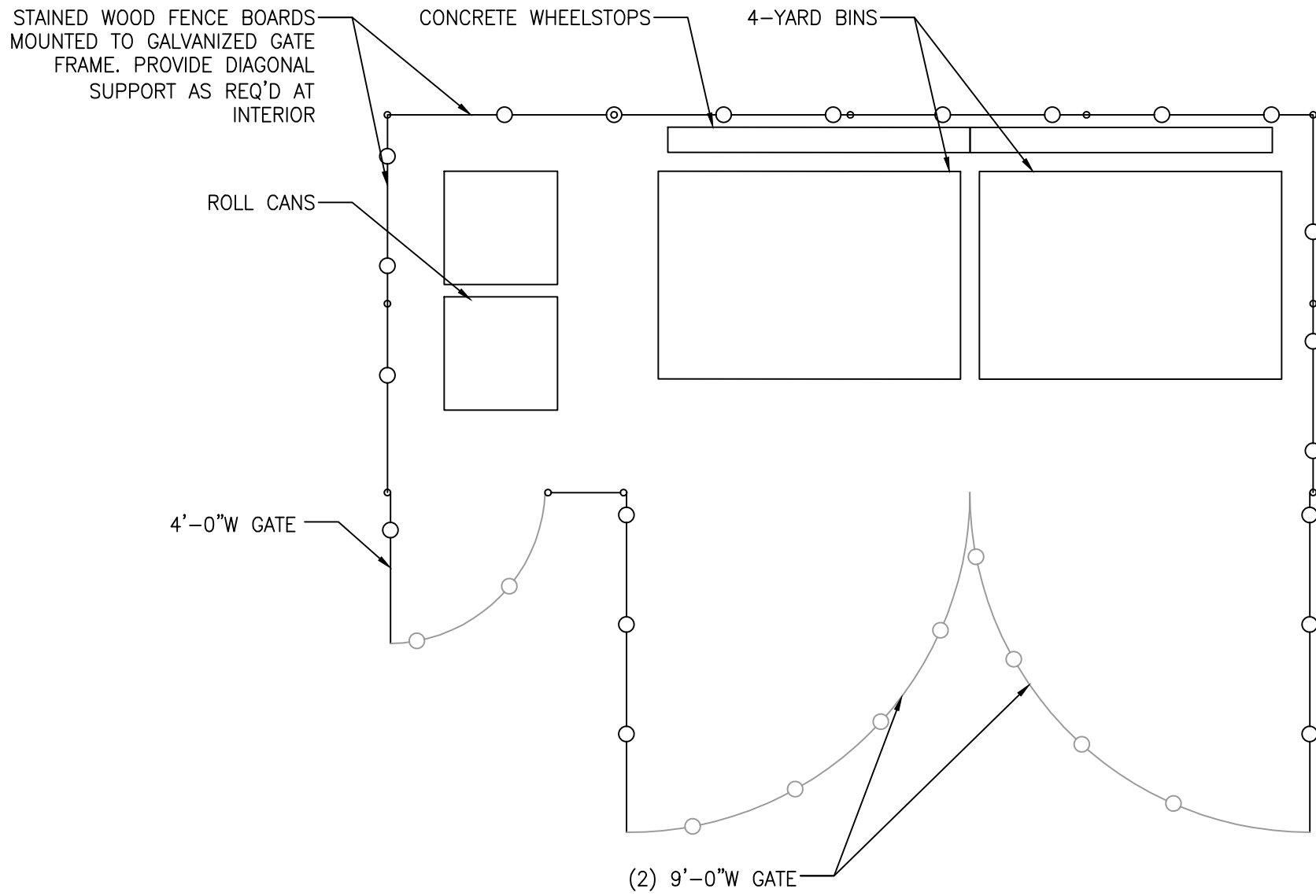
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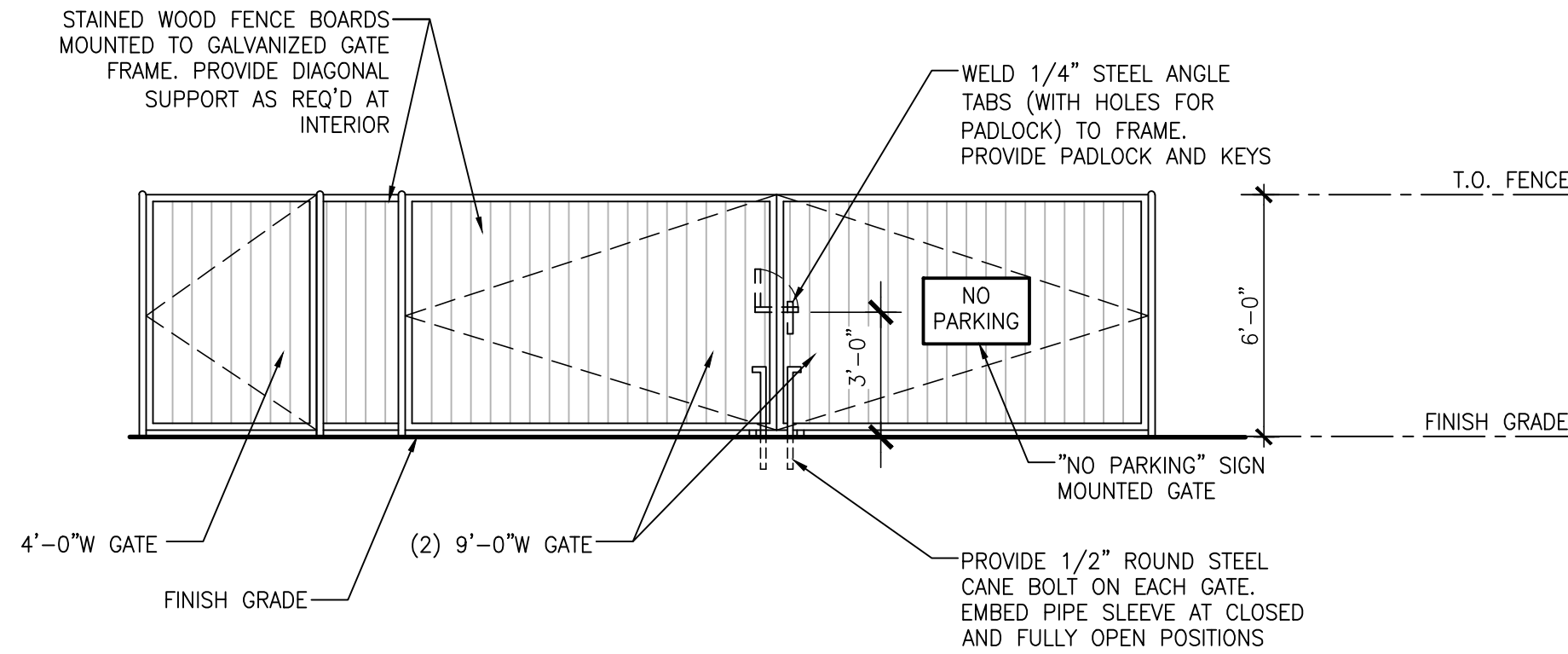
NEW TRASH ENCLOSURE — SEE 2/A0.2

PROPOSED CTE PROGRAM AREA — SEE A0.1 FOR LAYOUT AND DETAILS

1 SITE PLAN
1" = 30'-0"



ALL DUMPSTER SIZING AND QUANTITY TO BE VERIFIED BY BSD.



2 TRASH ENCLOSURE PLAN & ELEVATION
1/4" = 1'-0"



ISSUED DATE	DESCRIPTION
1 05/06/19	SCHEMATIC DESIGN DOCUMENTS
2 06/17/19	DESIGN DEVELOPMENT DOCUMENTS
3 08/16/19	DESIGN DEVELOPMENT DOCUMENTS
4 10/03/19	50% CD DOCUMENTS
5 11/05/19	100% CD DOCUMENTS
6 11/14/19	TYPE 1 APPLICATION
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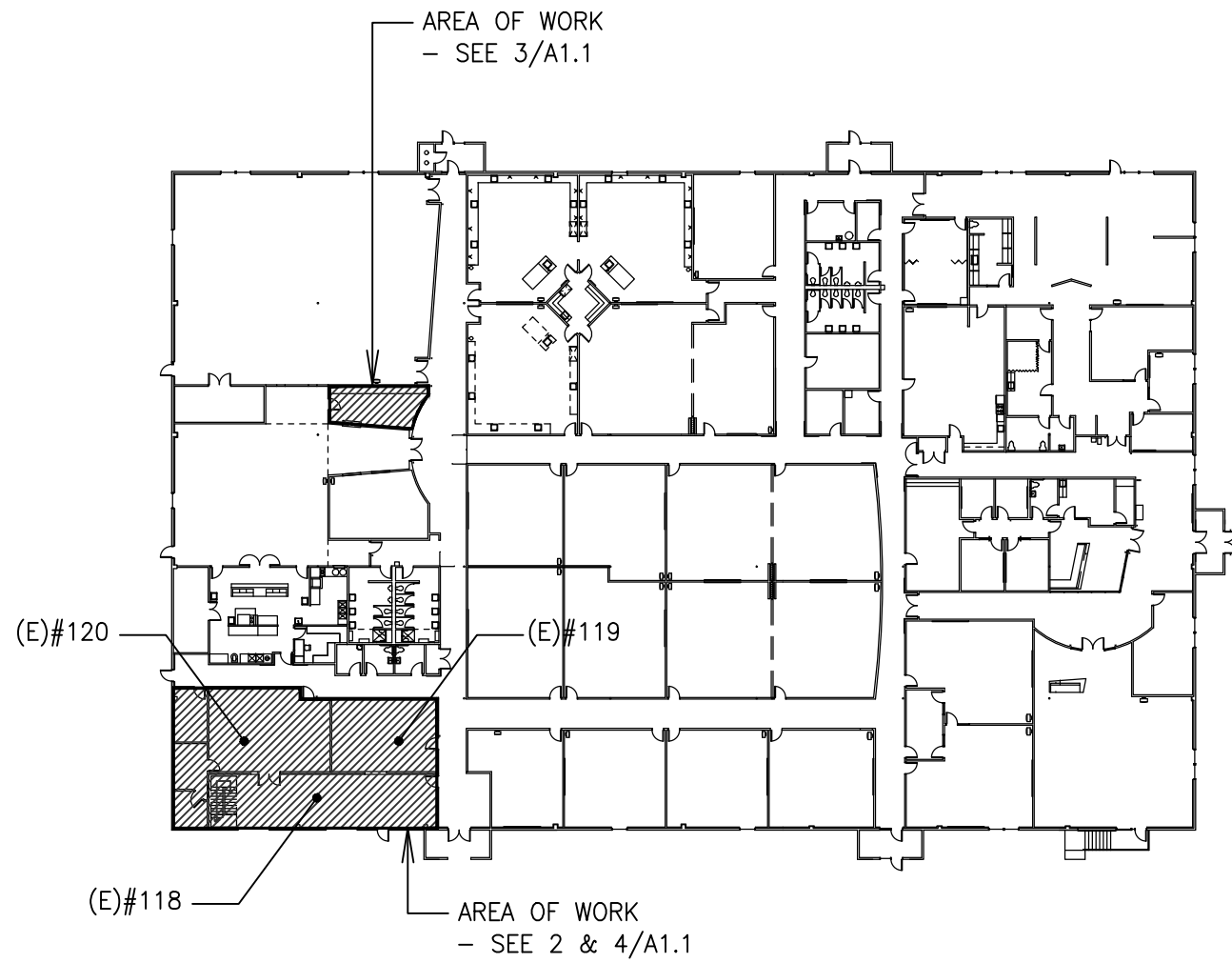
TENANT IMPROVEMENT FOR:
BEAVERTON SCHOOL DISTRICT:
MERLO STATION H.S. CTE PROGRAM
1841 SW MERLO DR. BEAVERTON, OREGON 97006

ARCHITECTURAL SITE
PLAN — FOR
REFERENCE

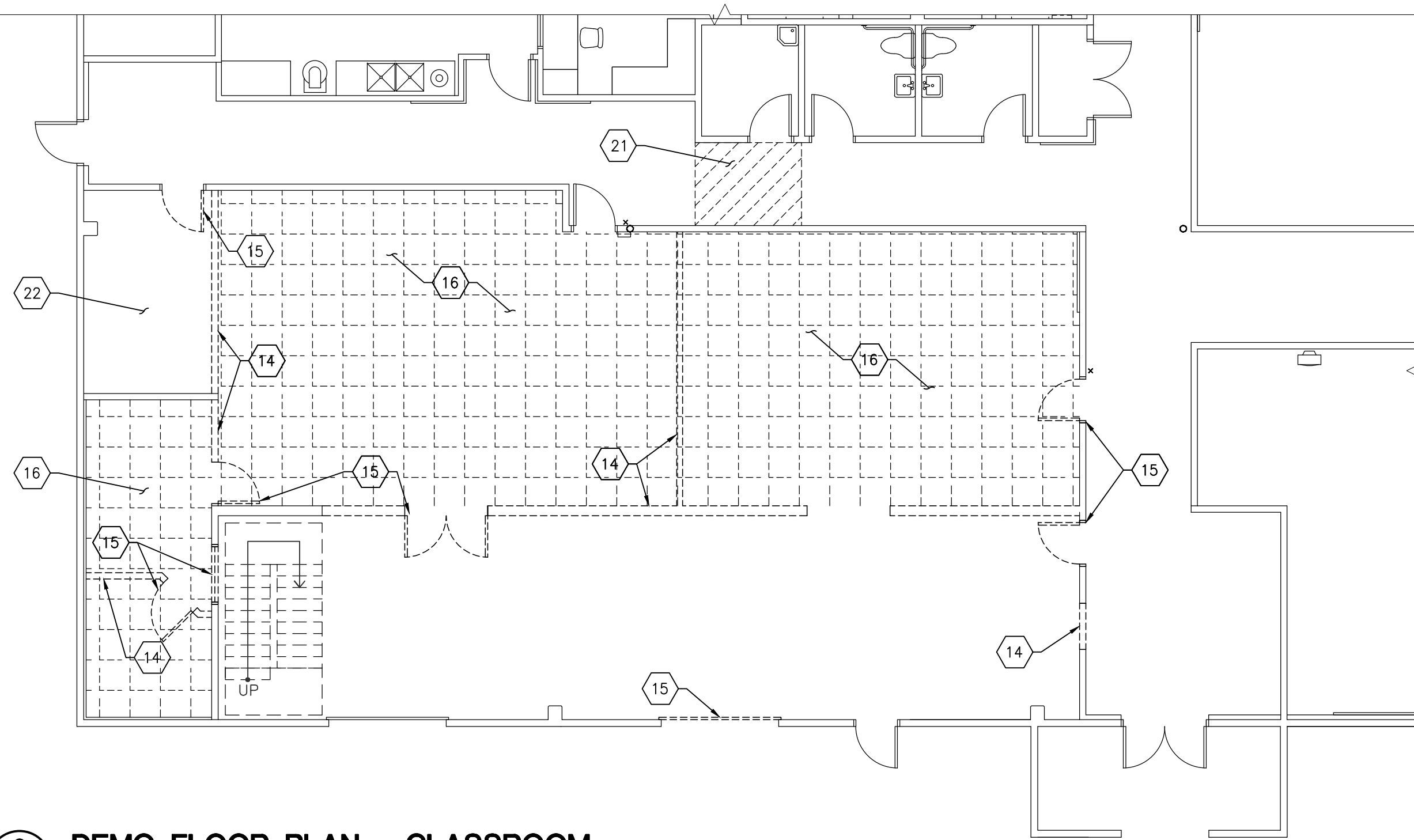
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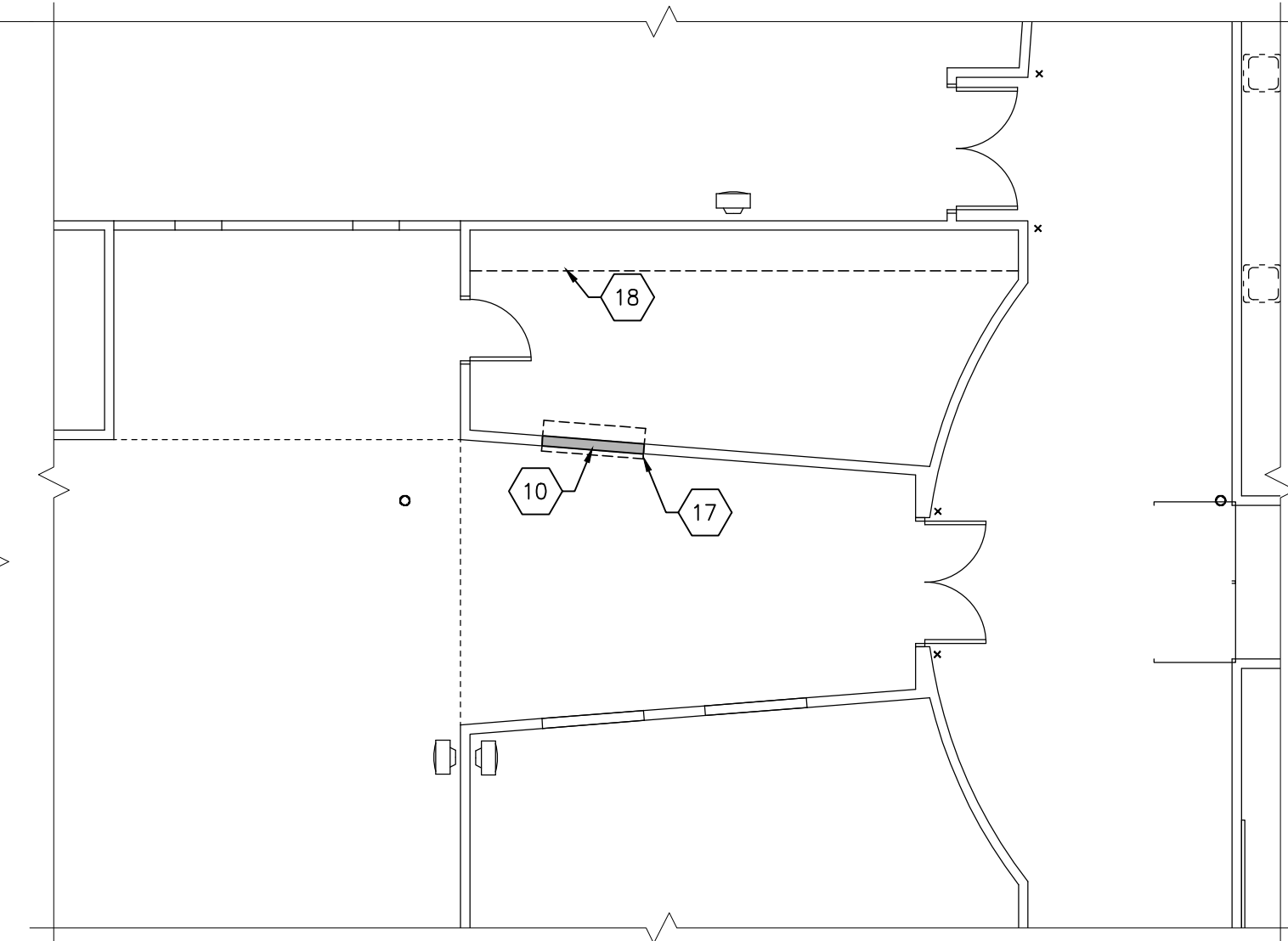
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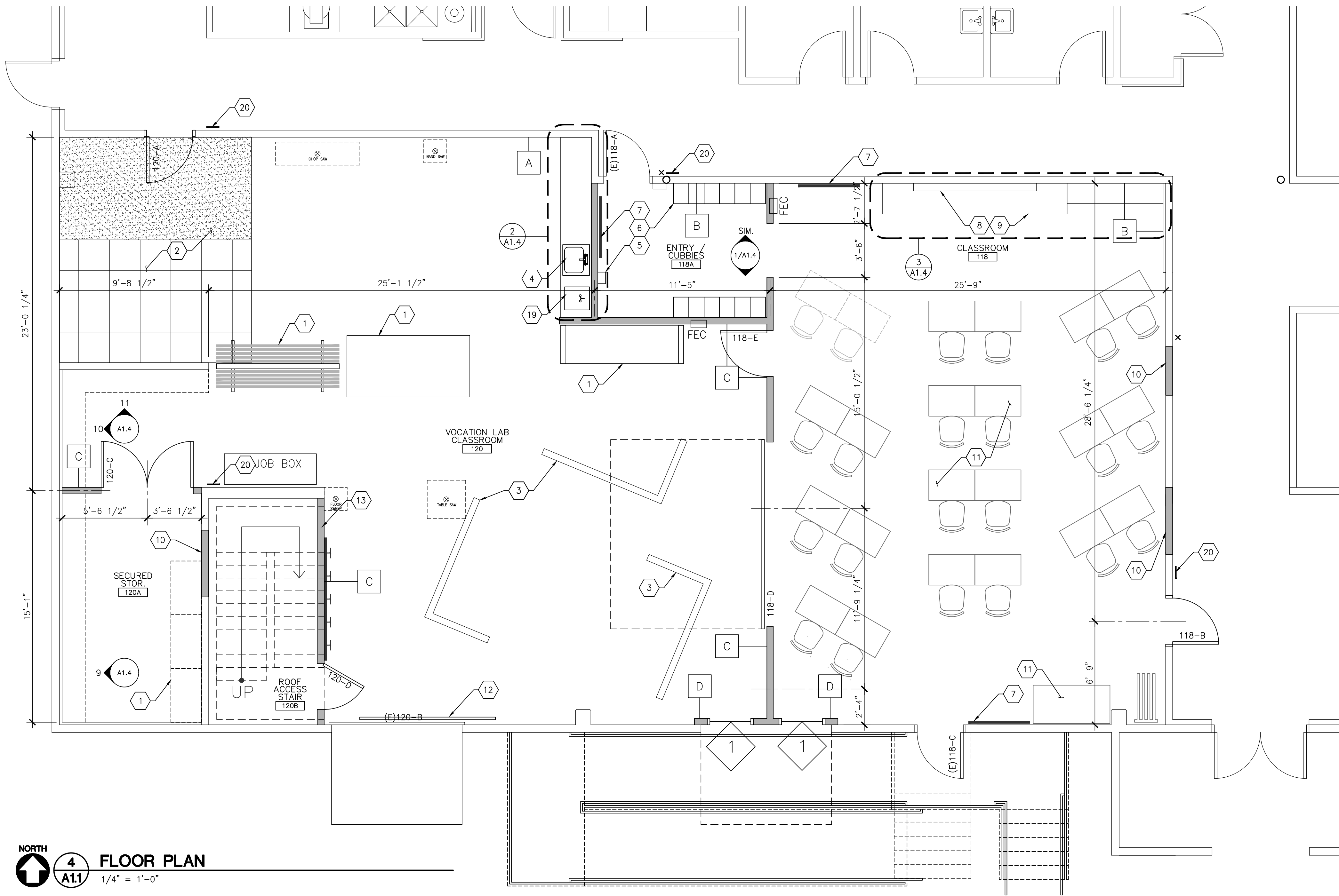
1 KEY PLAN
1" = 50'-0"



2 DEMO FLOOR PLAN - CLASSROOM
1/8" = 1'-0"



3 DEMO FLOOR PLAN - STOREROOM
1/8" = 1'-0"



4 FLOOR PLAN
1/4" = 1'-0"

LEGEND

101	ROOM NUMBER	NEW STUD WALL OR INFILL
101-A	DOOR NUMBER - SEE A1.2	EXISTING WALL TO REMAIN
F.O.F.	FACE OF FINISH	EXISTING WALL TO BE REMOVED
A	PARTITION TAG - SEE SCHEDULE THIS SHEET	RECESSED FIRE EXTINGUISHER CABINET - LOCATION TO BE VERIFIED W/ FIRE MARSHAL
#	WINDOW TAG - SEE A1.5	DUST COLLECTION DUCT DROP AT OWNER SUPPLIED EQUIPMENT - COORDINATE WITH MECHANICAL
		SAWCUT FOR NEW PLUMBING CONNECTIONS
		EXISTING ACT CEILING TO BE REMOVED

KEYNOTES (FLOOR PLAN & DEMO PLAN)

- MATERIAL STORAGE RACKING/SHELVING - OWNER FURNISHED/CONTRACTOR INSTALLED
- HANDS ON CEILING TRAINING MODULE - INSTALL AT 8'-0" AFF. PROVIDE HARDLID AND TILE CEILINGS AS INDICATED
- PORTABLE FRAMED WALL MOCK-UP PANELS
- HAND SINK
- TIME CLOCK
- METAL STORAGE LOCKERS - 2-TIERS
- 30X48 MESSAGE BOARD
- DISPLAY MONITOR
- CASEWORK - SECURED EQUIPMENT AND TRAINING AID STORAGE
- INFILL EXISTING OPENING W/ STUD WALL TO MATCH ADJACENT FINISHES
- FURNITURE (DESK/TABLES/CABINETS) BY OWNER - COORDINATE LAYOUT AND QUANTITY REQUIREMENTS FOR ACCESSIBLE TABLE LOCATIONS
- SECONDARY FALL PROTECTION AT EXISTING OVERHEAD DOOR - PROVIDE 42"H CHAINLINK SLIDE GATE
- INFILL PARTITION TO UNDERSIDE OF ROOF ACCESS STAIR STRINGER/LANDING
- DEMO EXISTING STUD WALL FULL HEIGHT
- EXISTING DOOR/WINDOW/RELITE TO BE REMOVED
- REMOVE EXISTING SUSPENDED CEILING SYSTEM
- REMOVE EXISTING COILING COUNTER GATE
- REMOVE EXISTING BUILT-IN CASEWORK/SHELVING - PATCH & REPAIR WALLS AS REQUIRED
- COUNTER MOUNT EYE WASH STATION - SEE PLUMBING DRAWINGS
- DOOR PLAQUE - MATCH EXISTING * - EXISTING PLAQUE TO REMAIN
- SAWCUT FOR NEW PLUMBING CONNECTIONS - PATCH AND REPAIR TO MATCH ADJACENT FINISH - EXACT LOCATION OF CUT/PATCH TO BE VERIFIED IN FIELD AND COORDINATED WITH EXISTING AND PROPOSED PLUMBING REQUIREMENTS.
- REMOVE EXISTING SHELVING AND EQUIPMENT WITHIN JANITORIAL CLOSET FOR SALVAGE COORDINATED WITH BSD

PARTITION SCHEDULE

ALL INSULATION VALUES ARE MINIMUM R-VALUES. INSULATION TO FILL ENTIRE STUD CAVITY AND MEET OSSC SMOKE DEVELOPMENT AND FLAME SPREAD REQUIREMENTS. SEE FLS FOR MORE INFORMATION - SEE ENERGY CODE COMPLIANCE CERTIFICATES FOR ADDITIONAL INFORMATION. ALL INTERIOR WALLS TO BE PROVIDED WITH SOUND BATT INSULATION. SEE FINISH PLAN AND SCHEDULE FOR FINISH MATERIALS. PROVIDE WATER RESISTANT GYP. BD. AT WET LOCATIONS

A	EXISTING WALL - LAB/SHOP SPACE - STRUCTURE: EXISTING STUD WALL TO REMAIN - FINISH (CORRIDOR): EXISTING GYPSUM BOARD TO REMAIN - FINISH (LAB/SHOP SPACE): EXISTING GYPSUM BOARD TO REMAIN ADD 3/4" PLYWOOD LINER PANEL TO 8'-0" A.F.F.
B	EXISTING WALL - CLASSROOM SPACE - STRUCTURE: EXISTING STUD WALL TO REMAIN - FINISH (CORRIDOR): EXISTING GYPSUM BOARD TO REMAIN - FINISH (CLASSROOM): EXISTING GYPSUM BOARD TO REMAIN
C	NEW DEMISING WALL - STRUCTURE: 6"x18GA METAL STUDS @ 16" O.C. FULL HEIGHT - BLOCKING: PROVIDE SOLID WOOD BLOCKING WHERE REQUIRED - FINISH (CLASSROOM): 5/8" GYPSUM BOARD - FINISH (LAB/SHOP SPACE): 3/4" PLYWOOD LINER PANEL TO 8'-0" A.F.F. 5/8" GYPSUM BOARD REMAINING HEIGHT - WET LOCATIONS: WATER/MOLD RESISTANT GREEN BOARD EACH SIDE OF ASSEMBLY AT ALL PLUMBING LOCATIONS - INSULATION: SOUND BATT INSULATION FULL HEIGHT
D	EXTERIOR INFILL WALL - STRUCTURE: 6"x18GA METAL STUDS @ 16" O.C. FULL HEIGHT OF OPENING - BLOCKING: PROVIDE SOLID WOOD BLOCKING WHERE REQUIRED - FINISH (CLASSROOM): 5/8" GYPSUM BOARD - FINISH (LAB/SHOP SPACE): 3/4" PLYWOOD LINER PANEL TO 8'-0" A.F.F. 5/8" GYPSUM BOARD REMAINING HEIGHT - INSULATION: R-19 BATT INSULATION FULL HEIGHT - EXTERIOR FINISH: 1/2" PLYWOOD SHEATHING (2) LAYERS WATER RESISTANT BARRIER 1/2" CEMENTIOUS SIDING PANELS PAINT TO MATCH ADJACENT PANEL



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DEMO PLAN / FLOOR PLAN

A11

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RCP LEGEND

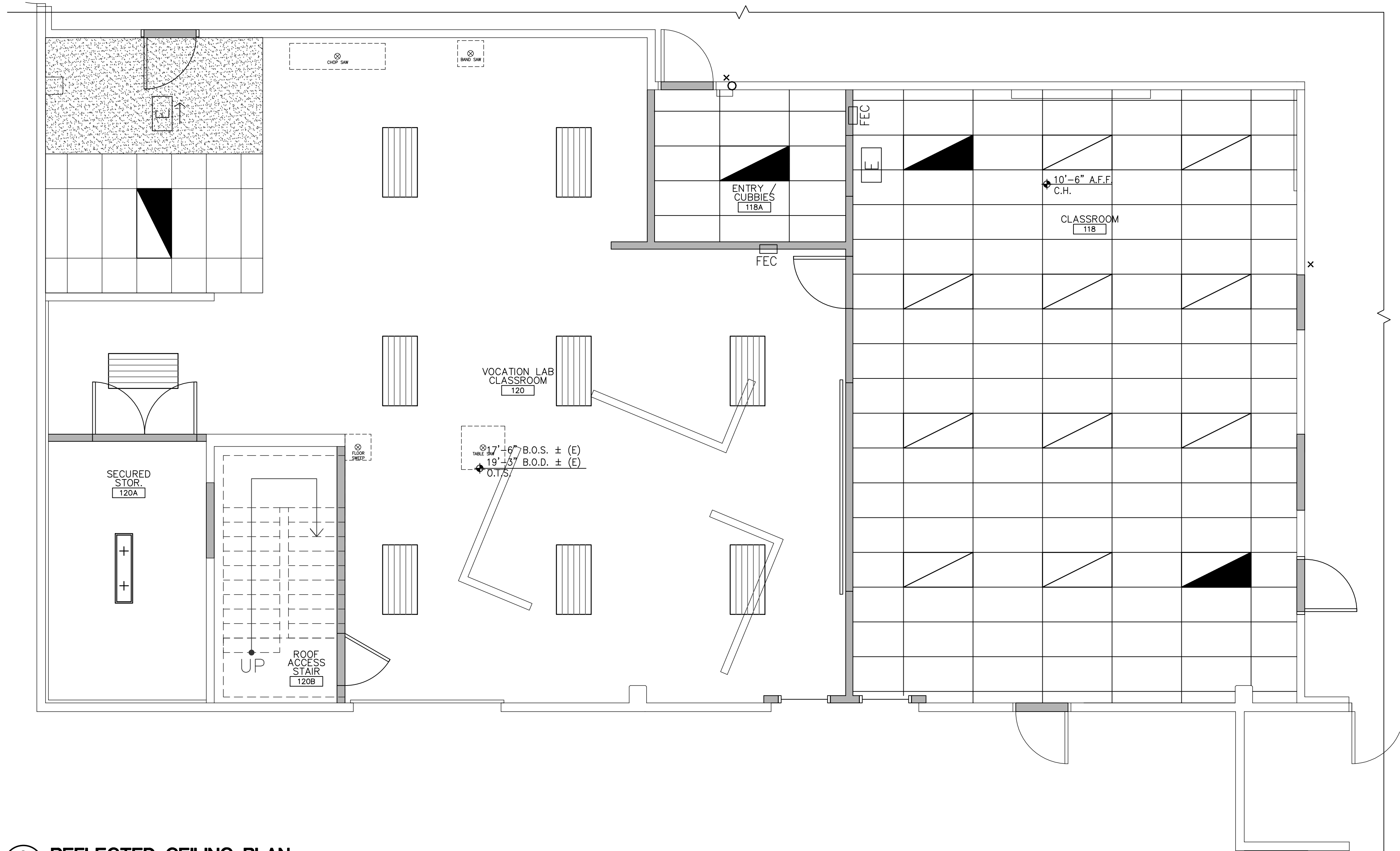
	ACOUSTICAL TILE CEILING GRID		2'X4' LED HIGH BAY WAREHOUSE LIGHTING	(E) EXISTING
	FINISHED GYP. BD. CEILING		2'X4' LED PARABOLIC LAY-IN FIXTURE	B.O.S. BOTTOM OF STRUCTURE
	ILLUMINATED EXIT SIGN DIRECTIONAL WHERE INDICATED ON PLANS		2'X4' LED PARABOLIC LAY-IN FIXTURE, CONNECT FIXTURE TO EMERGENCY POWER COORDINATE W/ RACKING AND EGRESS PATH	B.O.D. BOTTOM OF DECK
			1'X4' SUSPENDED MOUNTED FIXTURE	

REFLECTED CEILING PLAN GENERAL NOTES

- THIS DRAWING IS DIAGRAMMATIC AND FOR DESIGN PURPOSES ONLY.
- CONTRACTOR TO VERIFY EXISTING CONDITIONS SHOWN OR IMPLIED PRIOR TO CONSTRUCTION. NOTIFY A/E OF ANY DISCREPANCIES.
- MECHANICAL, ELECTRICAL BY SEPARATE PERMIT.
- SEE FINISH SCHEDULE FOR CEILING HEIGHTS NOT NOTED.
- SEE INTERIOR FINISH SHEET AND SCHEDULE FOR ADDITIONAL INFORMATION
- EGRESS PATH LIGHTING TO BE MINIMUM 1 FOOT CANDLE. ELECTRICAL SUBCONTRACTOR TO VERIFY AND PROVIDE A/E CALCULATIONS OF AVERAGE AND MINIMUM LIGHTING LEVELS AT EGRESS PATHS
- CONTRACTOR TO PROVIDED SUBMITTALS TO ARCHITECT PRIOR TO WORK AS OUTLINED IN SPECIFICATION TO INCLUDE HVAC EQUIPMENT AND LOCATIONS, FINISH AND TRIM MATERIALS AND ELECTRICAL/LIGHTING PRODUCTS INCLUDING LAYOUT AND ILLUMINATION LEVELS.
- ELEVATIONS SHOWN ON PLAN AND INDICATED IN FINISH SCHEDULE ARE TO BOTTOM OF FINISH MATERIAL AND/OR LIGHT FIXTURE
- SUSPENDED ACOUSTICAL CEILINGS ARE TO BE INSTALLED USING AN APPROVED "CLIP" SYSTEM SUCH AS THE BERC2 SYSTEM BY ARMSTRONG AS INDICATED IN 4/A1.4 OR APPROVED EQUAL.
- ELECTRICAL CONTRACTOR TO PROVIDE DESIGN WITH FIXTURE LAMPING TO MEET INTERIOR ILLUMINATION LEVEL COMPLYING WITH INDUSTRY STANDARDS IN ALL ROOMS. PROVIDE ILLUMINATION LEVELS TO ARCHITECT SHOWING COMPLIANCE.
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- LIGHTING, HVAC AND FIRE SPRINKLER DRAWINGS TO BE COORDINATED BY CONTRACTOR PRIOR TO INSTALLATION.

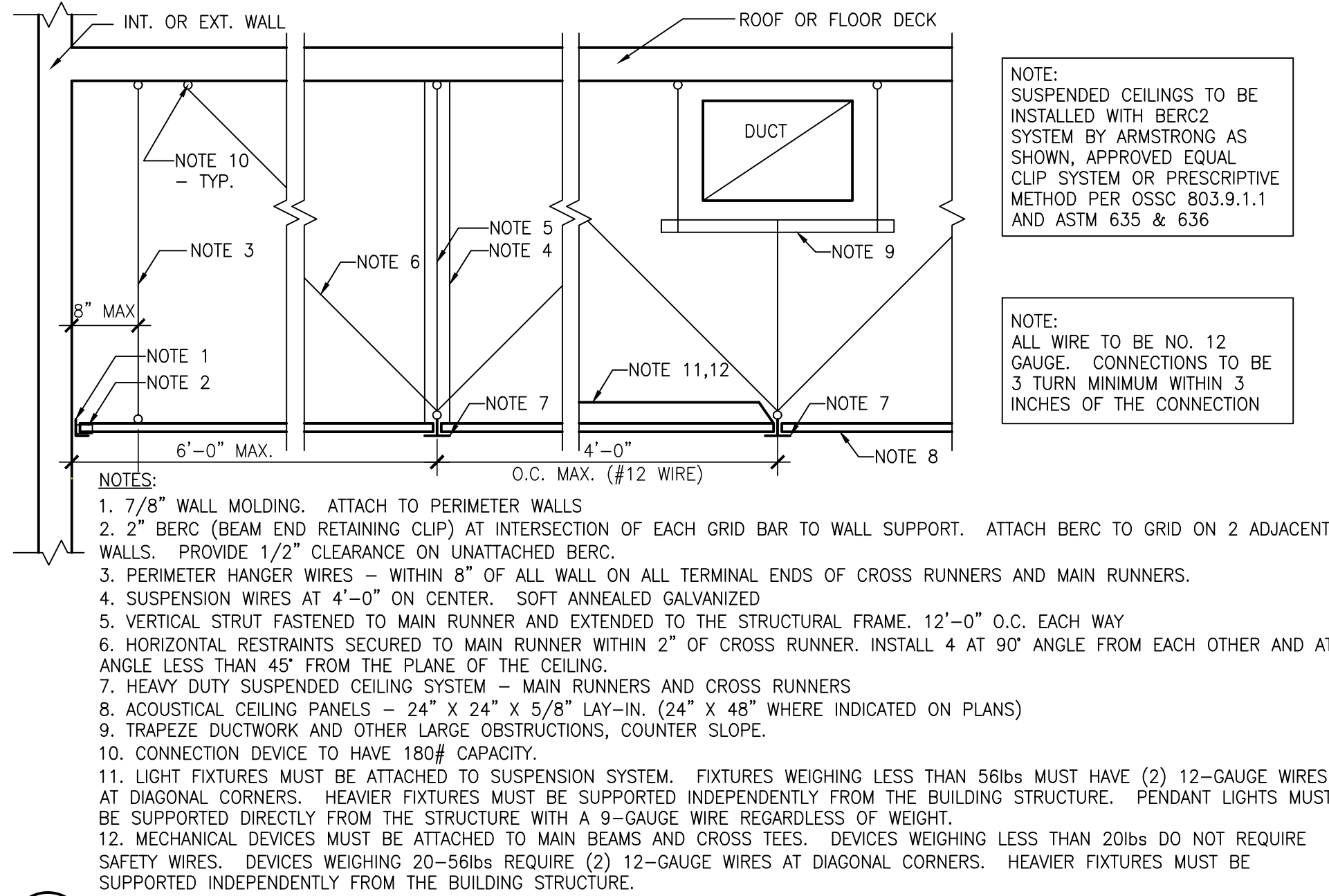
NOTE: ELECTRICAL CONTRACTOR TO VERIFY MINIMUM EMERGENCY EXIT ILLUMINATION WITH BATTERY BACKUP AT EGRESS PATH OF TRAVEL - PROVIDE 1 F.C. MIN. EMERGENCY LIGHTING @ PATH OF TRAVEL. THIS LEVEL MAY DIMINISH TO NOT LESS THAN .6 F.C. OVER 1.5 HOURS OF OPERATION.

WIFI ACCESS POINT NOTES - SEE ELECTRICAL



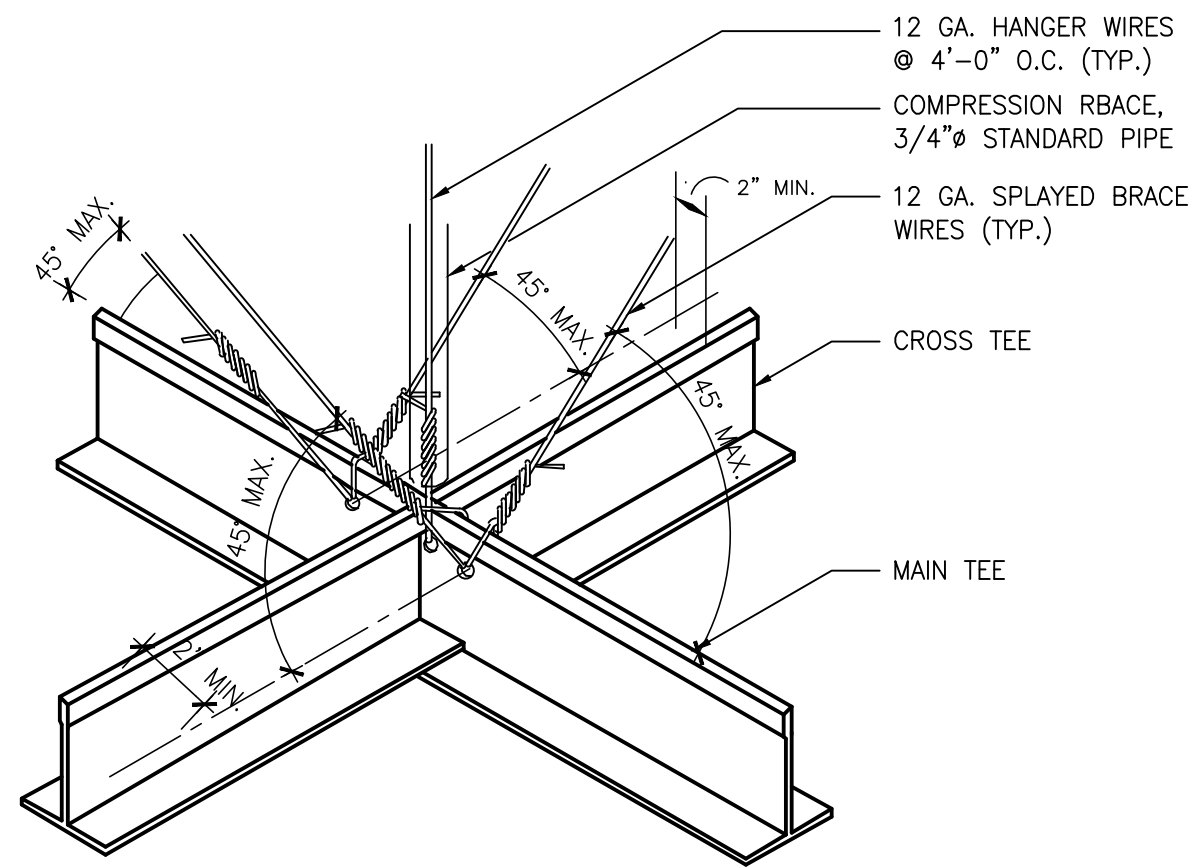
9 REFLECTED CEILING PLAN

A12 1/4" = 1'-0"



2 LATERAL BRACING FOR HEAVY DUTY SUSPENDED CEILING

A14 3/4" = 1'-0"

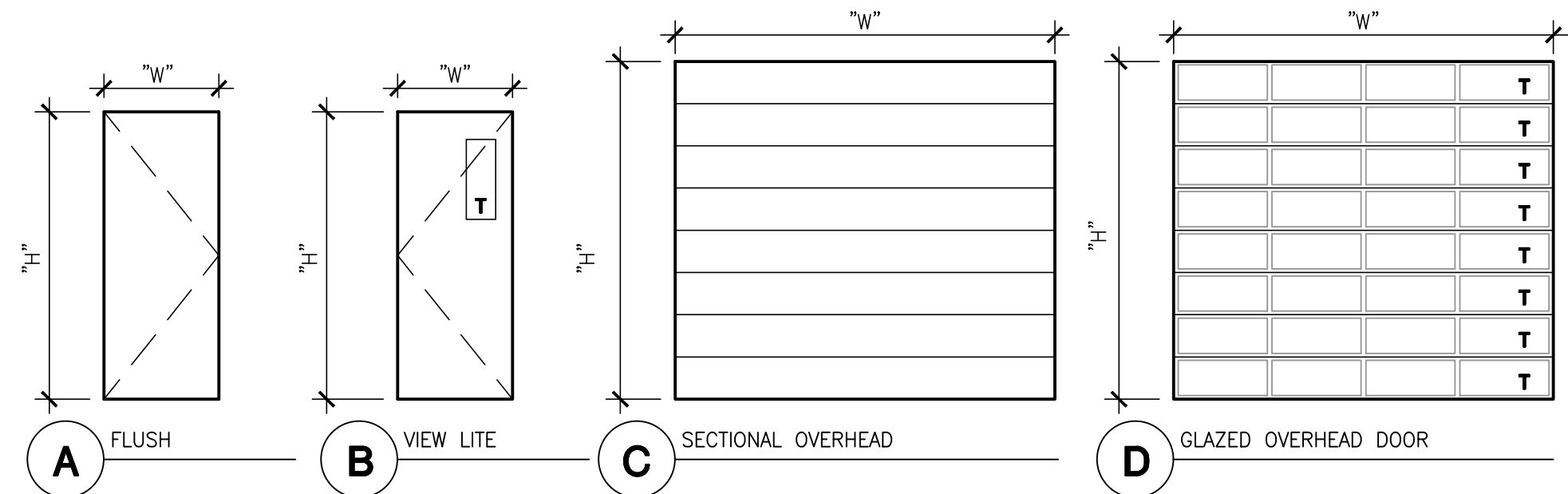


4 SEISMIC BRACING FOR SUSPENDED CEILINGS

A14 3" = 1'-0"

DOOR SCHEDULE											
TYPE		OPENING		DOOR			FRAME		ASSEMBLY		NO.
NO.	TYPE	WIDTH	HEIGHT	THICK.	MAT'L	FINISH	MAT'L	FINISH	HDWR	RATING	
(E)118-A	B	3'-0"	7'-0"	1-3/4"	HM	PAINTED	HM	PAINTED	A		101-A
118-B	B	3'-0"	7'-0"	1-3/4"	HM	PAINTED	HM	PAINTED	B		102-A
(E)118-C	A	3'-0"	7'-0"	1-3/4"	STL	PAINTED	---	---	C		EXISTING 102-B
118-D	D	12'-0"	10'-0"	1-3/4"	AL/GL	ANODIZED	---	---	E		103-A
118-E	A	3'-0"	7'-0"	1-3/4"	HM	PAINTED	HM	PAINTED	D		EXISTING 103-B
120-A	A	3'-0"	7'-0"	1-3/4"	HM	PAINTED	HM	PAINTED	B		EXST. OPNG. 103-C
(E)120-B	C	8'-0"	10'-0"	1-3/4"	STL	PAINTED	---	---	E		EXISTING 103-D
120-C	A	6'-0"	7'-0"	1-3/4"	HM	PAINTED	HM	PAINTED	F		104-A
120-D	A	3'-0"	7'-0"	1-3/4"	HM	PAINTED	HM	PAINTED	G		105-A

HARDWARE TYPES			
TYPE A EXISTING TO REMAIN	TYPE B 1 1/2 PR BUTTS 1 EA CLASSROOM LOCKSET 1 EA SURFACE CLOSER 1 SET SILENCERS	TYPE C 1 1/2 PR BUTTS 1 EA ENTRANCE LOCKSET W/ ELEC. STRIKE 1 EA CARD READER AC 1 EA PANIC BAR 1 EA SURFACE CLOSER 1 SET SILENCERS	TYPE D 1 1/2 PR BUTTS 1 EA PASSAGE LATCH SET 1 EA SURFACE CLOSER 1 SET SILENCERS
TYPE E REVIEW EXISTING OPERATOR AND REPAIR/SERVICE AS REQUIRED. REMOVE EXISTING CONTROL AND REPLACE WITH KEY CONTROLLED, CONSTANT PRESSURE OPENER PROVIDE UL COMPATIBLE ENTRAPMENT SENSOR AT LEADING EDGE OF DOOR	TYPE F 1 1/2 PR BUTTS 1 EA STORAGE LOCK SET 1 EA DUMMY TRIM 2 EA SURFACE CLOSER 2 SET SILENCERS 1 EA OVERLAPPING ASTRAGAL 1 EA COORDINATOR	TYPE G 1 1/2 PR BUTTS 1 EA STORAGE LOCK SET 1 EA SURFACE CLOSER 1 SET SILENCERS 1 SET SMOKE GASKETS	



8 DOOR & HARDWARE SCHEDULES & TYPES

A12

ROOM FINISH SCHEDULE									
NO.	ROOM NAME	FLOOR	BASE	N WALL	WALLS	WALL	CLNG	HEIGHT	NOTES
118	VOC. LAB / CLASSROOM	F-1	B-1	W-2	W-2	W-2	W-2	C-1/C-2/C-3	
119	ENTRY / CUBBIES	F-1	B-1	W-1	W-1	W-1	W-1	C-1	10'-6"
120	CLASSROOM	F-1	B-1	W-1	W-1	W-1	W-1	C-1	10'-6"
121	SECURED STORAGE	F-1	B-1	W-1	W-1	W-1	W-1	C-3	---
122	ROOF ACCESS STAIR	F-1	B-1	W-1	W-1	W-1	W-1	C-3	---

ROOM FINISHES INDEX		
FLOOR FINISHES F-1 SEALED CONCRETE	WALL W-1 PAINTED GYP. COLOR TBD. W-2 PLYWOOD LINER PANEL. BIRCH	BASE B-1 6" RUBBER BASE, ROPPE, TBD.
CEILING C-1 SUSPENDED ACT C-2 PAINTED GYP. BD. COLOR TBD. C-3 EXPOSED TO STRUCTURE	CASEWORK PL-1 VERTICAL SURFACES, TBD. PL-2 COUNTERTOP WITH 4" BACK/SIDE SPLASH. TBD.	NOTES:

12 ROOM FINISH SCHEDULE

A12 NOT TO SCALE



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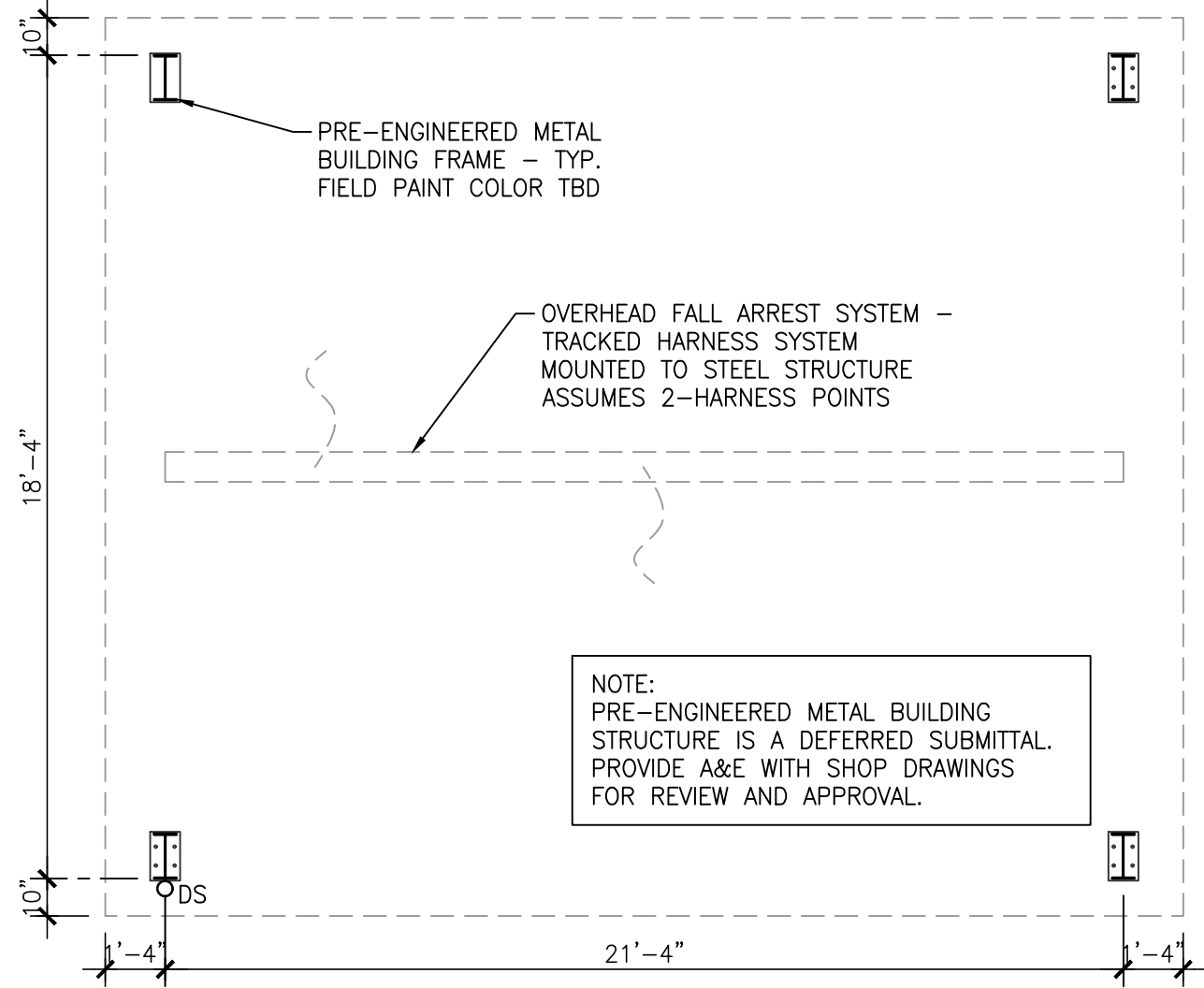
REFLECTED CEILING PLAN /
SCHEDULE / DETAILS

A12

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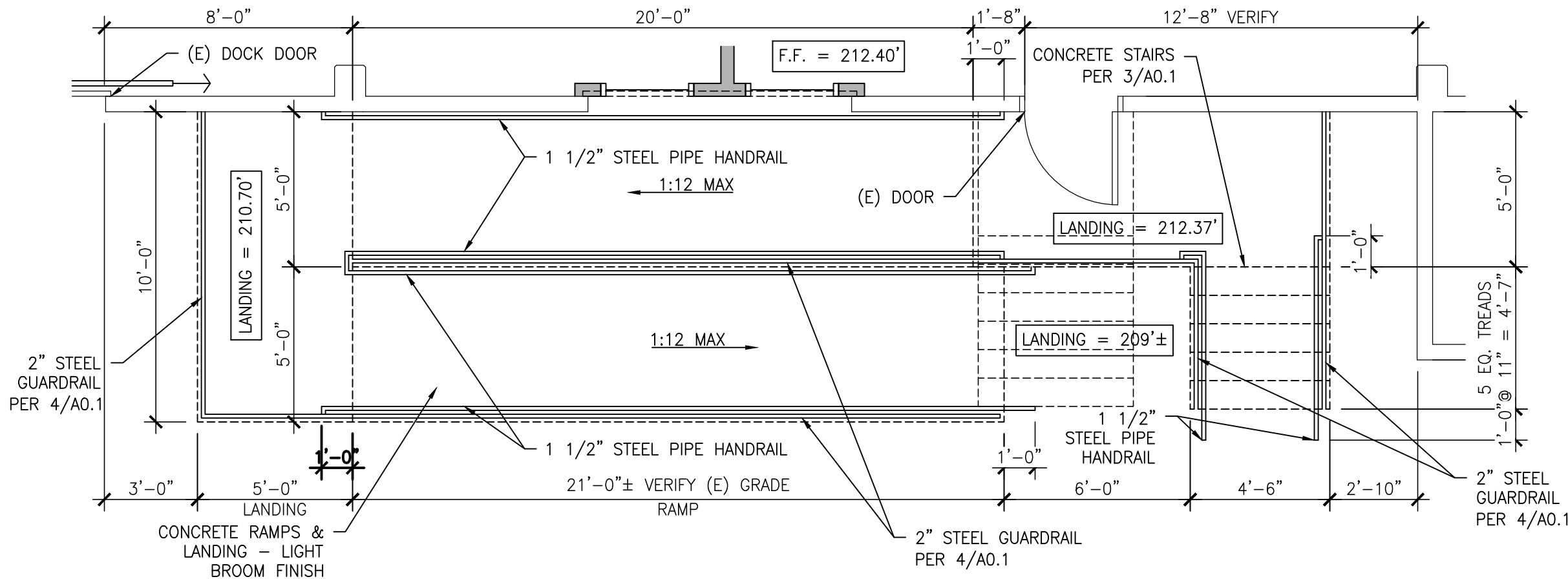
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NOTE: PROVIDE ELECTRICAL CONNECTION AT EACH BUILDING COLUMN FOR PORTABLE WELDERS



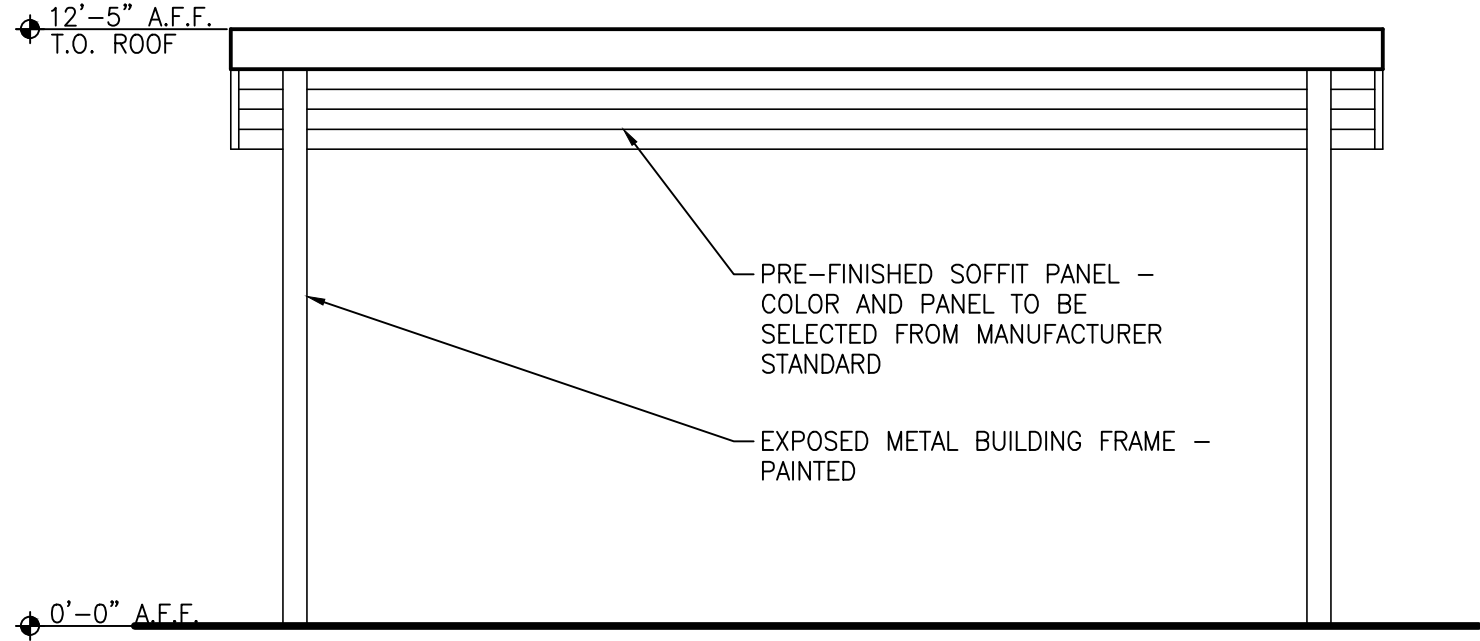
1 NEW STRUCTURE - PLAN

A13 1/4" = 1'-0"



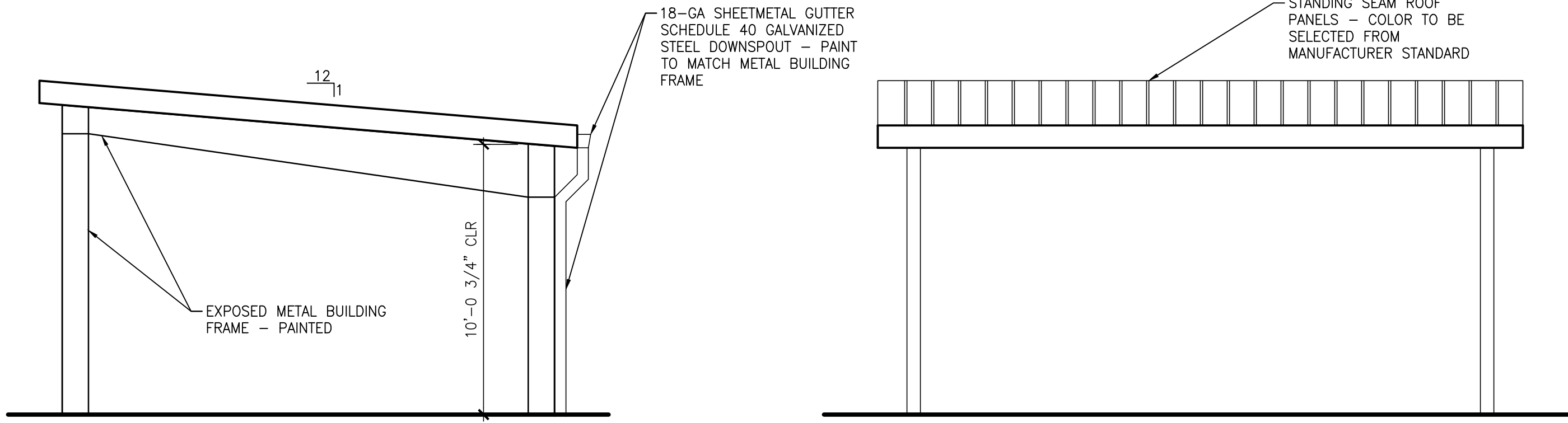
2 EXTERIOR RAMP/STAIR PLAN

A13 1/4" = 1'-0"



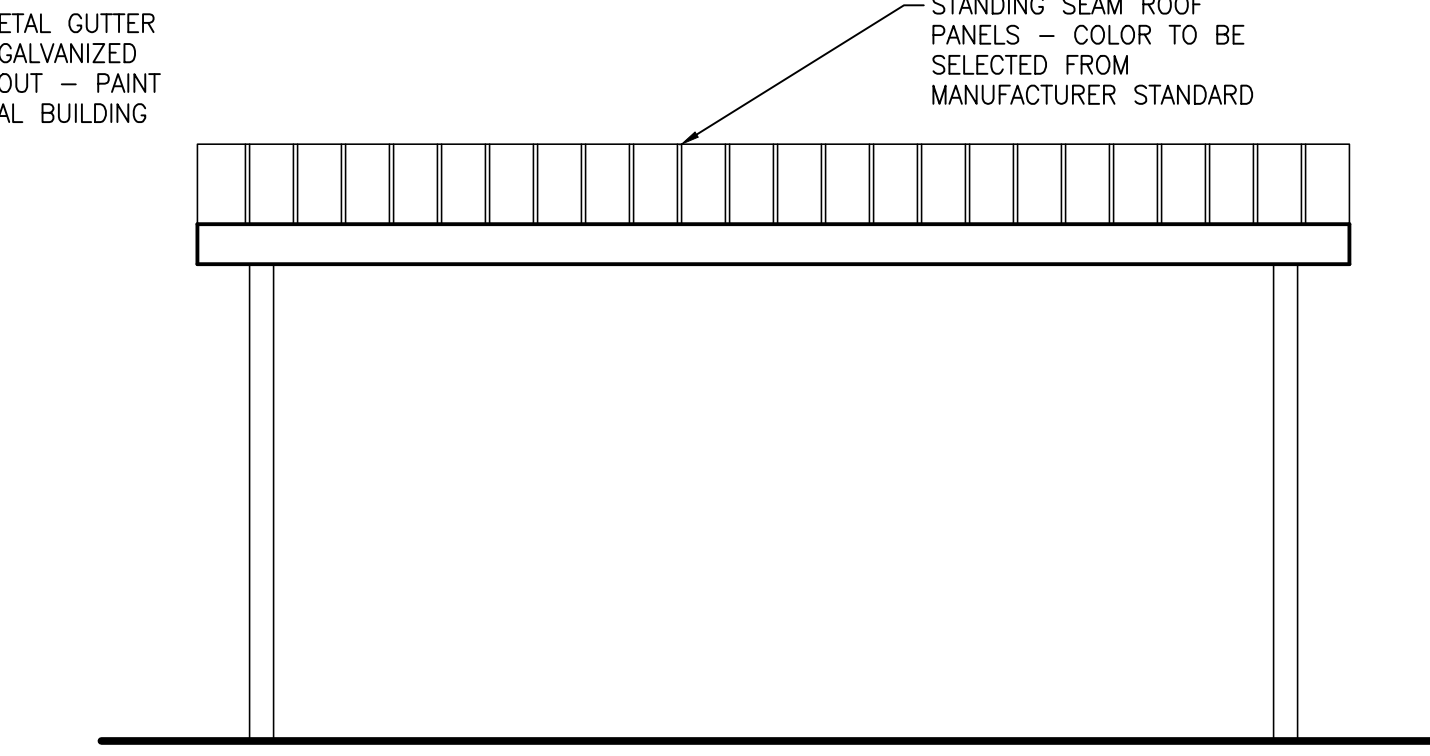
5 NEW STRUCTURE - NORTH ELEVATION

A13 1/4" = 1'-0"



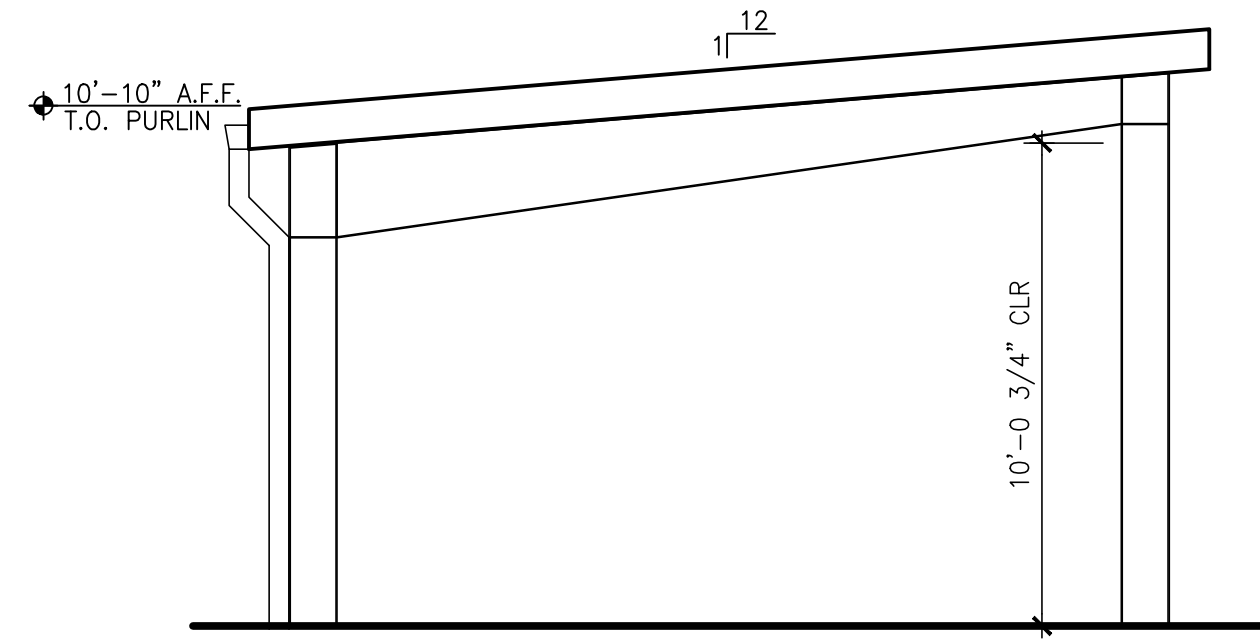
6 NEW STRUCTURE - WEST ELEVATION

A13 1/4" = 1'-0"



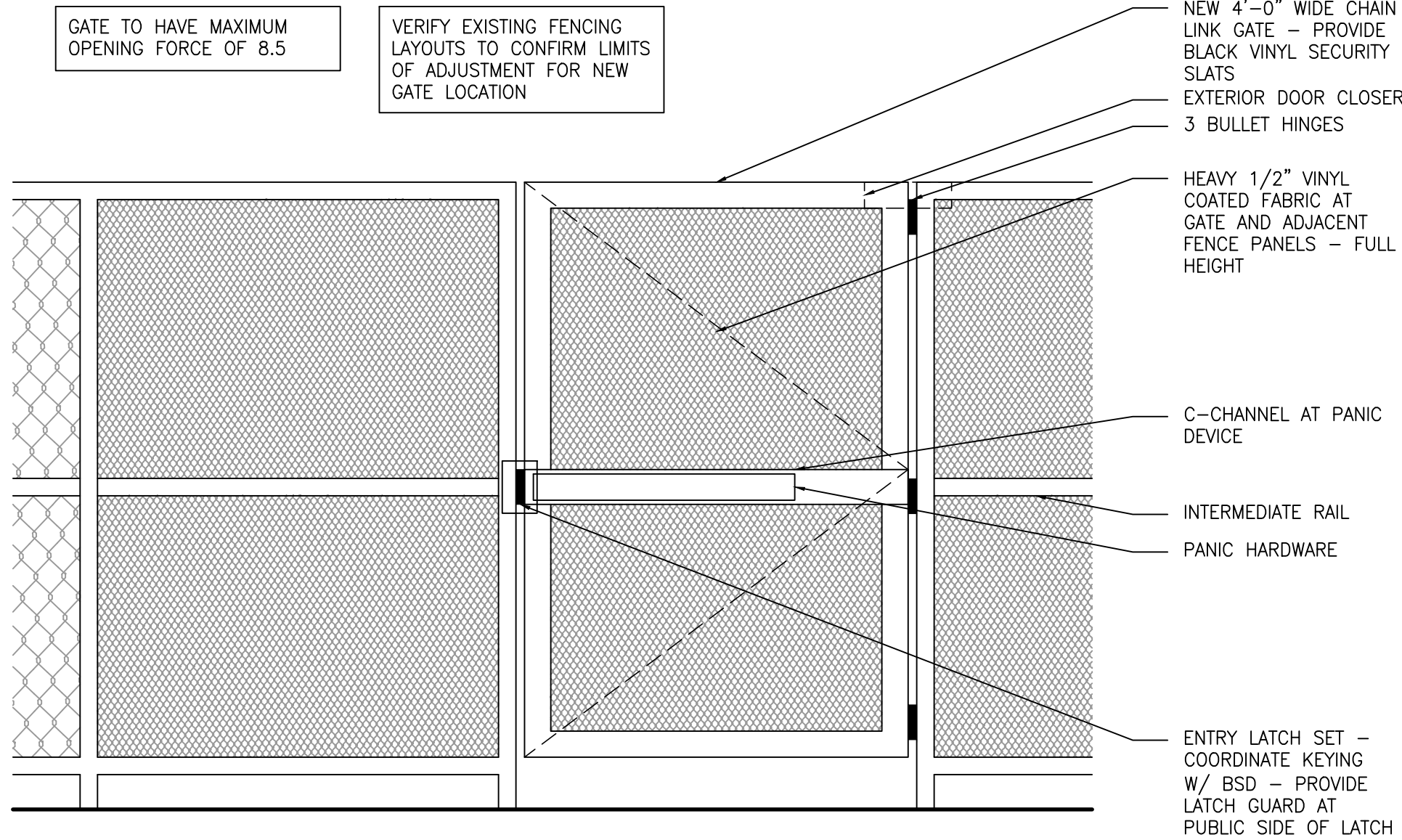
7 NEW STRUCTURE - SOUTH ELEVATION

A13 1/4" = 1'-0"



8 NEW STRUCTURE - EAST ELEVATION

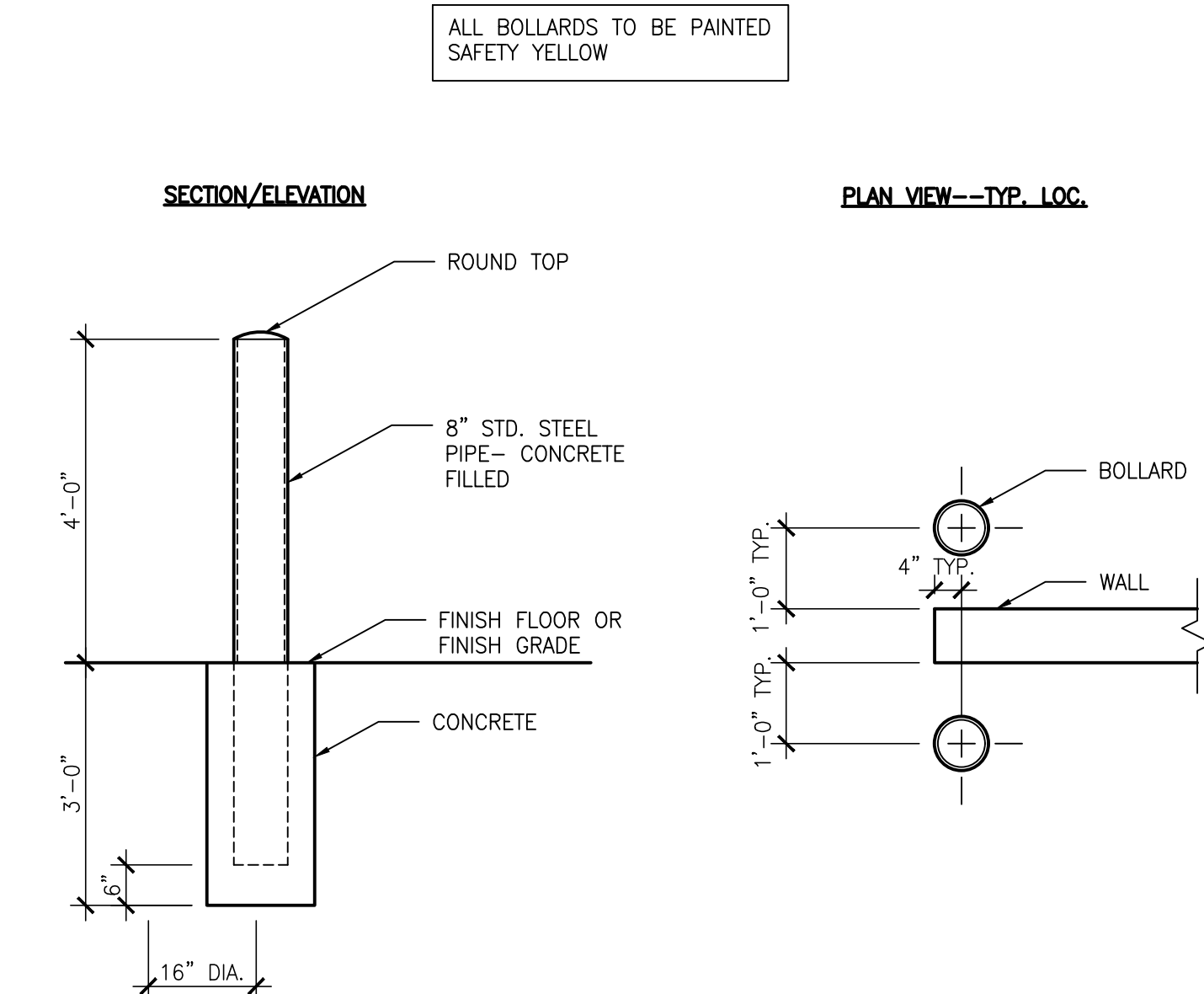
A13 1/4" = 1'-0"



9 GATE ELEVATION

A13 3/4" = 1'-0"

05720-02



11 BOLLARD DETAIL

A13 1/2" = 1'-0"



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PLANS & ELEVATIONS
NEW METAL STRUCTURE

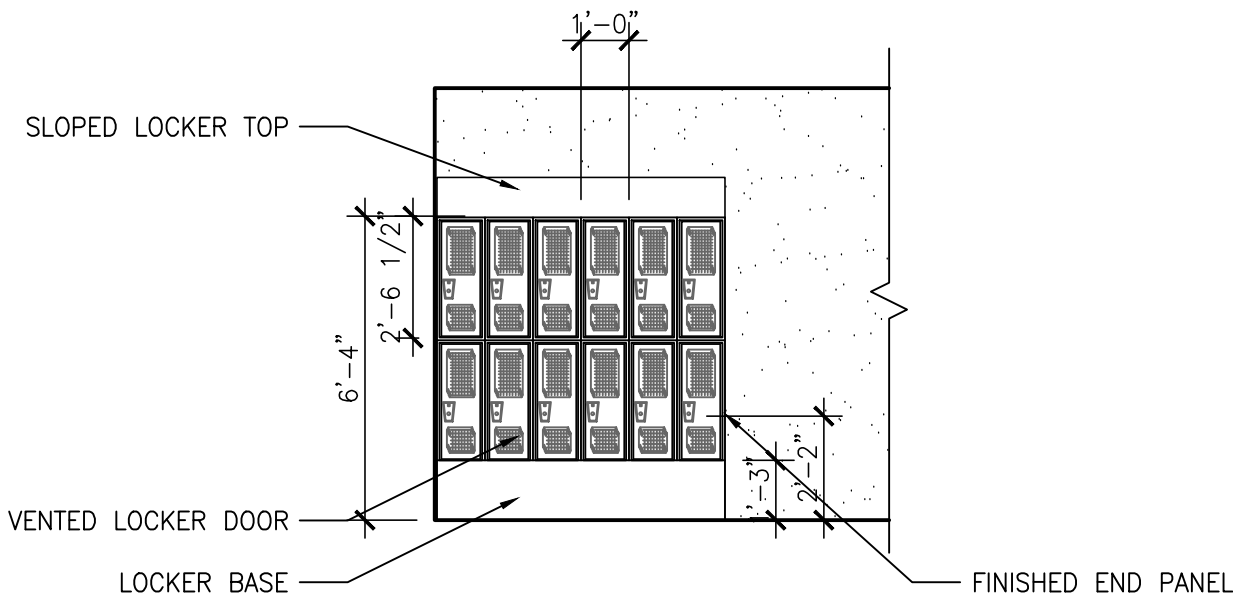
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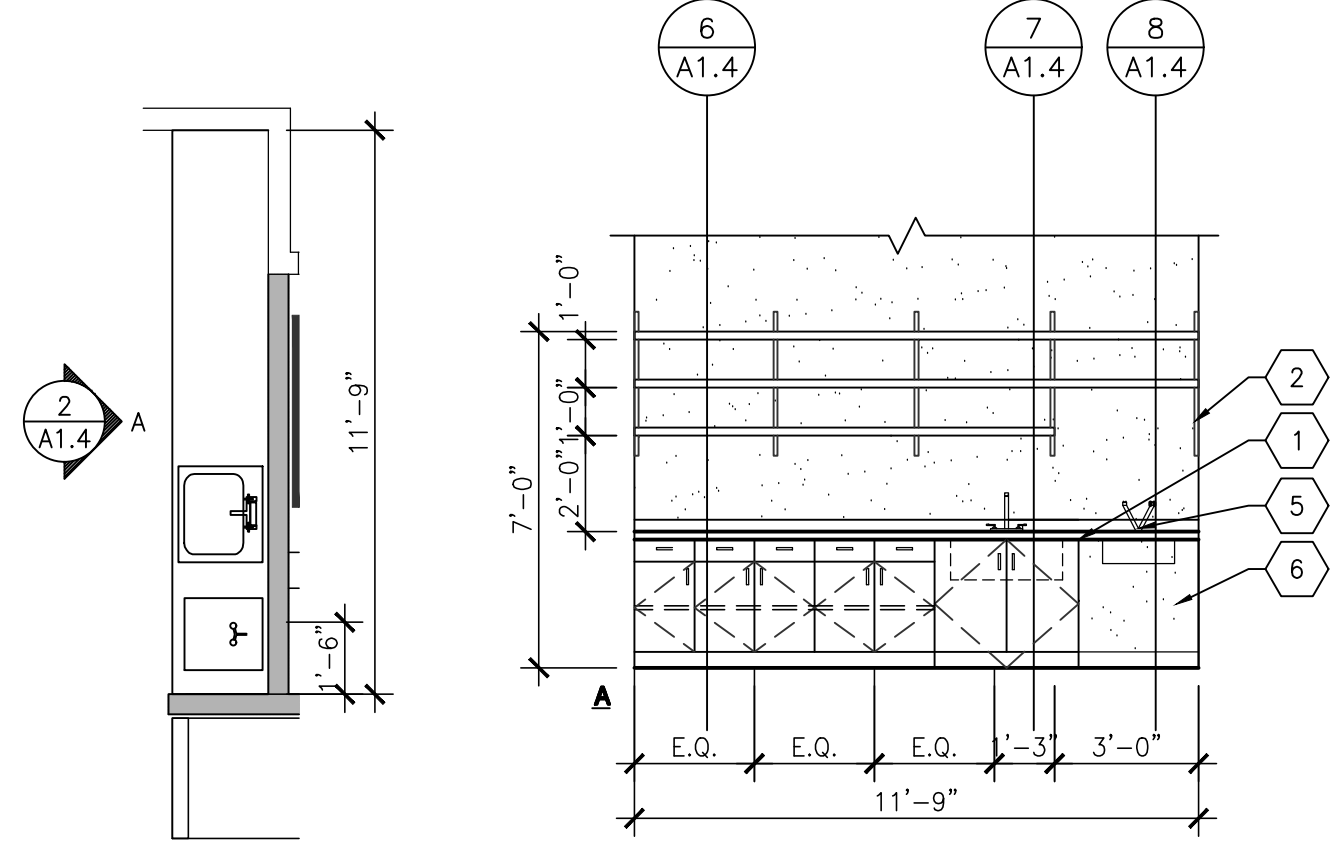
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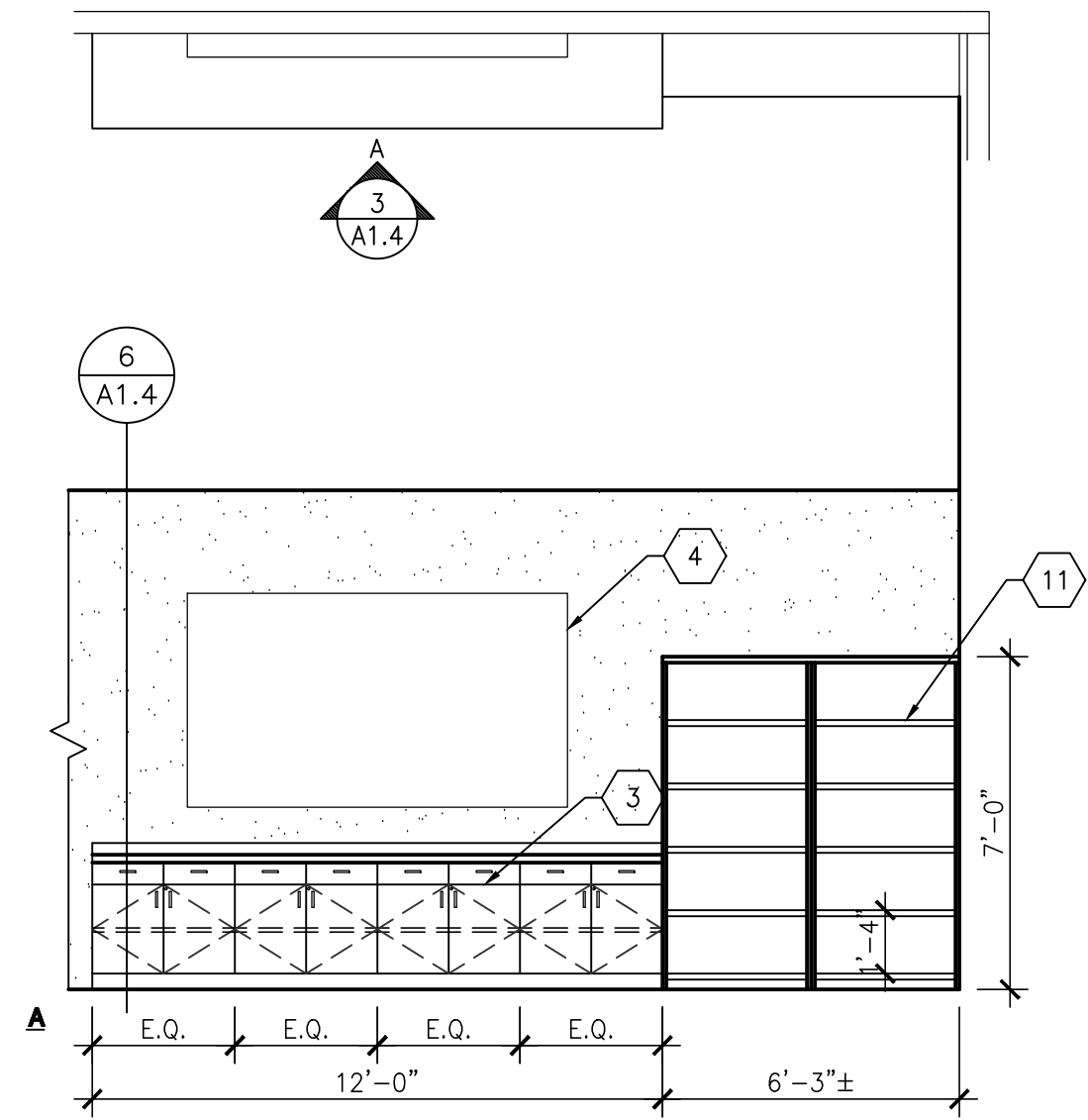
1 LOCKER ELEVATION (SOUTH) MIRRORED AT SIM. CONDITION (NORTH)
A14 1/4" = 1'-0"



2 VOCATIONAL LAB - CASEWORK PLAN & ELEV.
A14 1/4" = 1'-0"



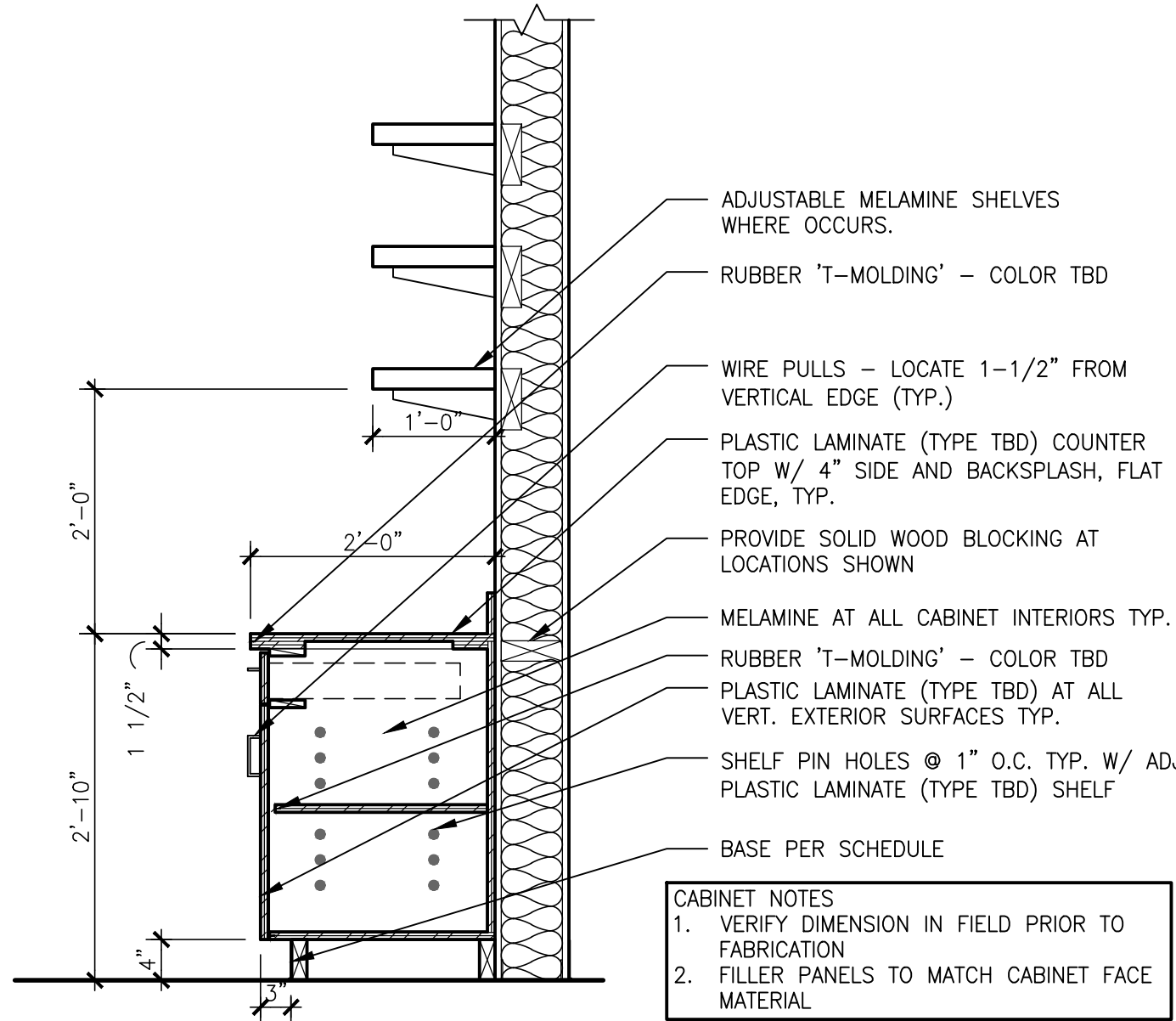
3 CLASSROOM - CASEWORK PLAN & ELEV.
A14 1/4" = 1'-0"



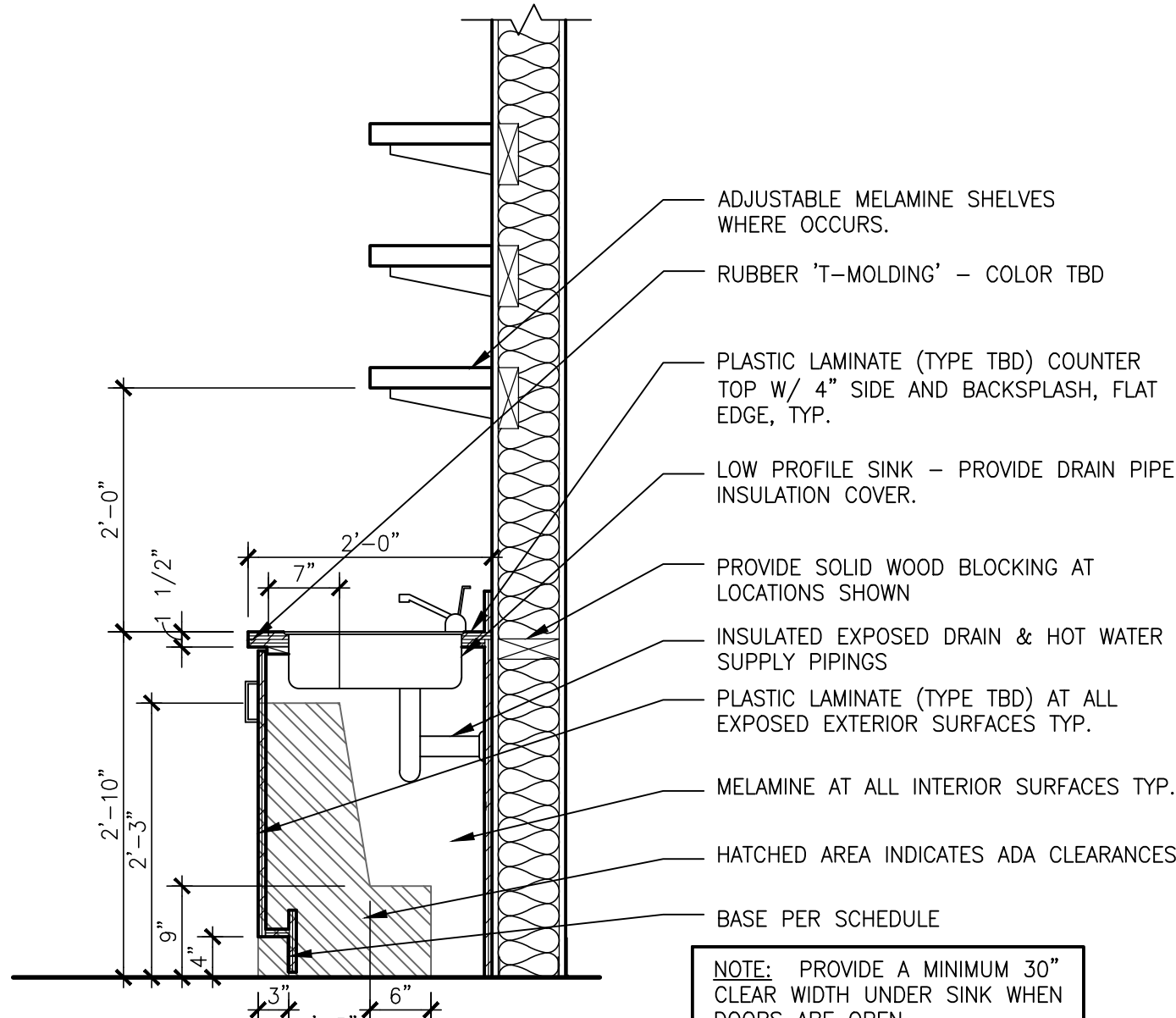
KEYNOTES (INTERIOR ELEVATIONS)

- 1 ADA CABINET
- 2 ADJUSTABLE SHELF BRACKETS
- 3 SECURED CABINETS
- 4 DISPLAY BY OWNER. COORDINATE POWER DATA.
- 5 COUNTER MOUNTED EMERGENCY EYE WASH - SEE PLUMBING
- 6 OPEN UNDER CABINET
- 7 2X AND PLYWOOD SHELVING - 18" DEEP
- 8 2X AND PLYWOOD COUNTER - 24" DEEP
- 9 PLYWOOD LINER BEYOND STORAGE SHELVING - FULL HEIGHT
- 10 4X8 HEAVY DUTY PEGBOARD MOUNTED ON 1X SLEEPERS AT 16" O.C.
- 11 DOUBLE REINFORCED P-LAM OPENING SHELVING

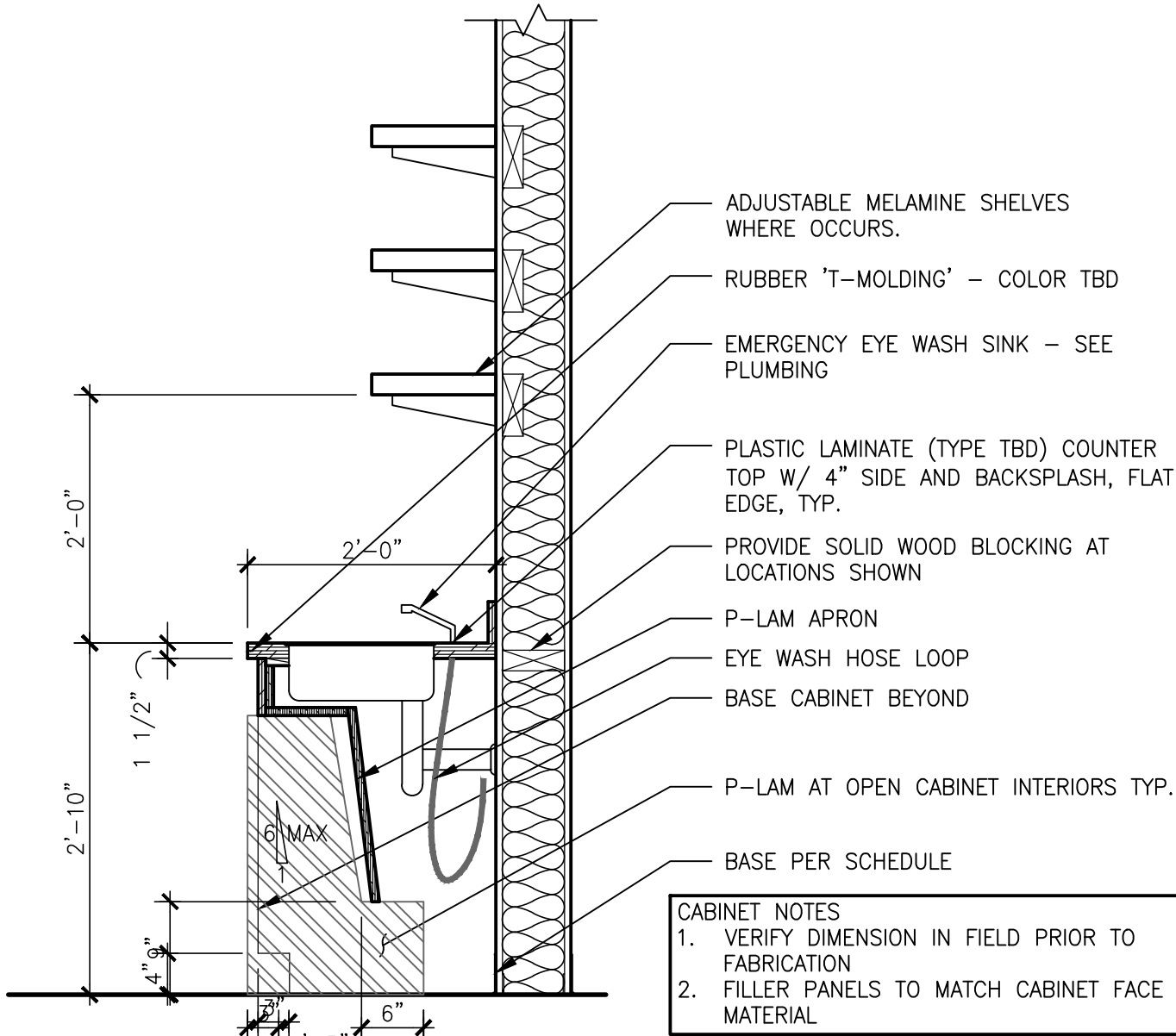
6 WALL AND BASE CABINET SECTION
A14 3/4" = 1'-0"



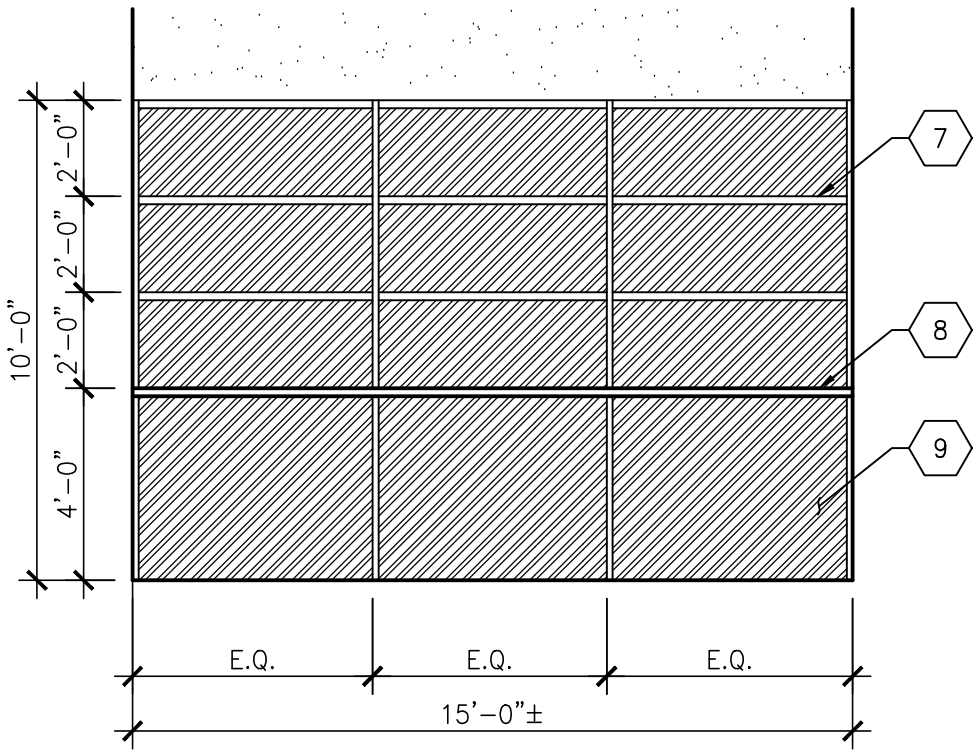
7 CABINET SECTION AT ADA SINK
A14 3/4" = 1'-0"



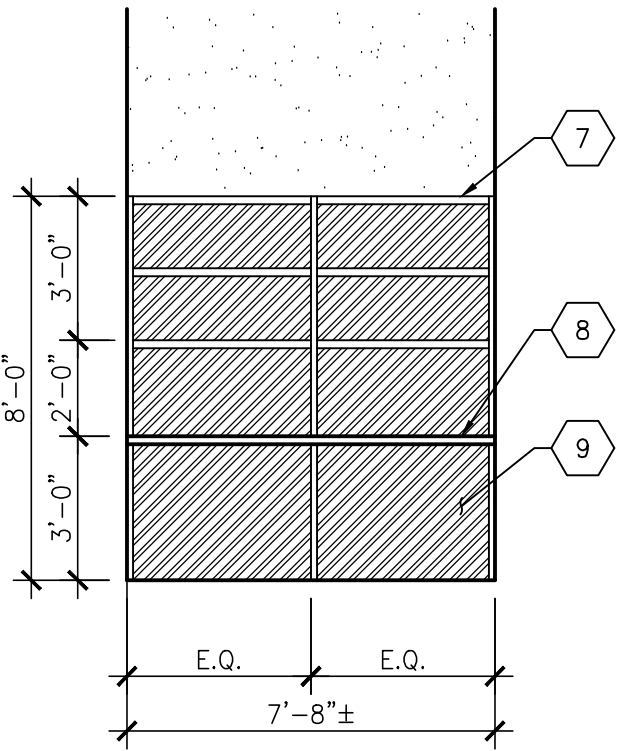
8 OPEN BASE CABINET SECTION
A14 3/4" = 1'-0"



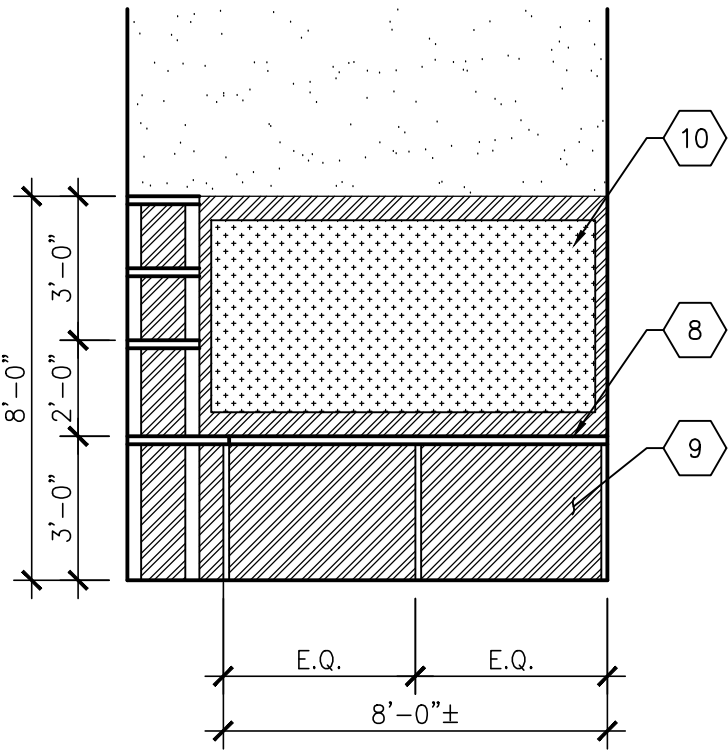
9 SECURED EQUIPMENT STORAGE SHELVING
A14 1/4" = 1'-0"



10 EQUIPMENT STORAGE SHELVING
A14 1/4" = 1'-0"



11 EQUIPMENT STORAGE SHELVING
A14 1/4" = 1'-0"



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INTERIOR ELEVATIONS

A14

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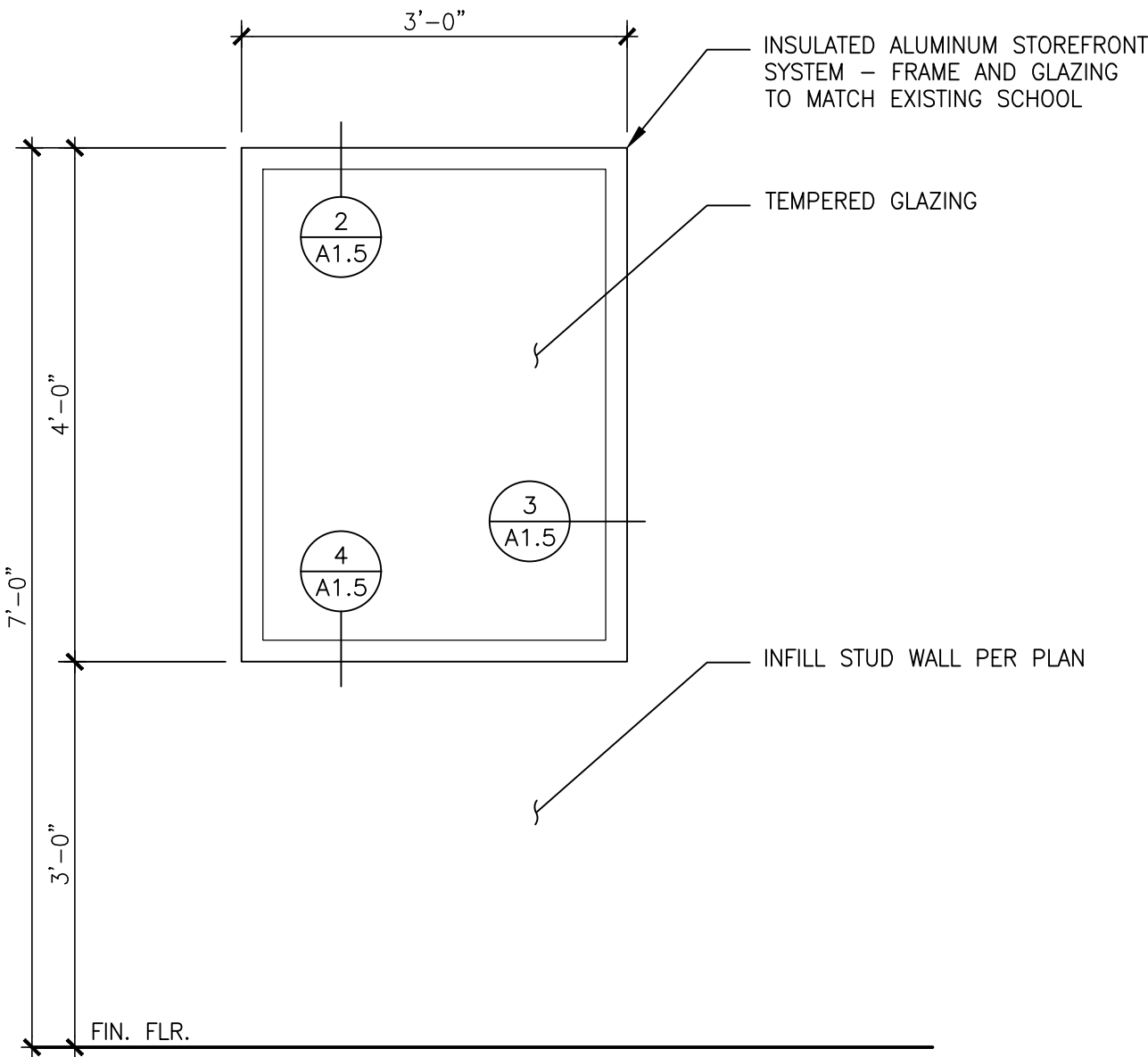
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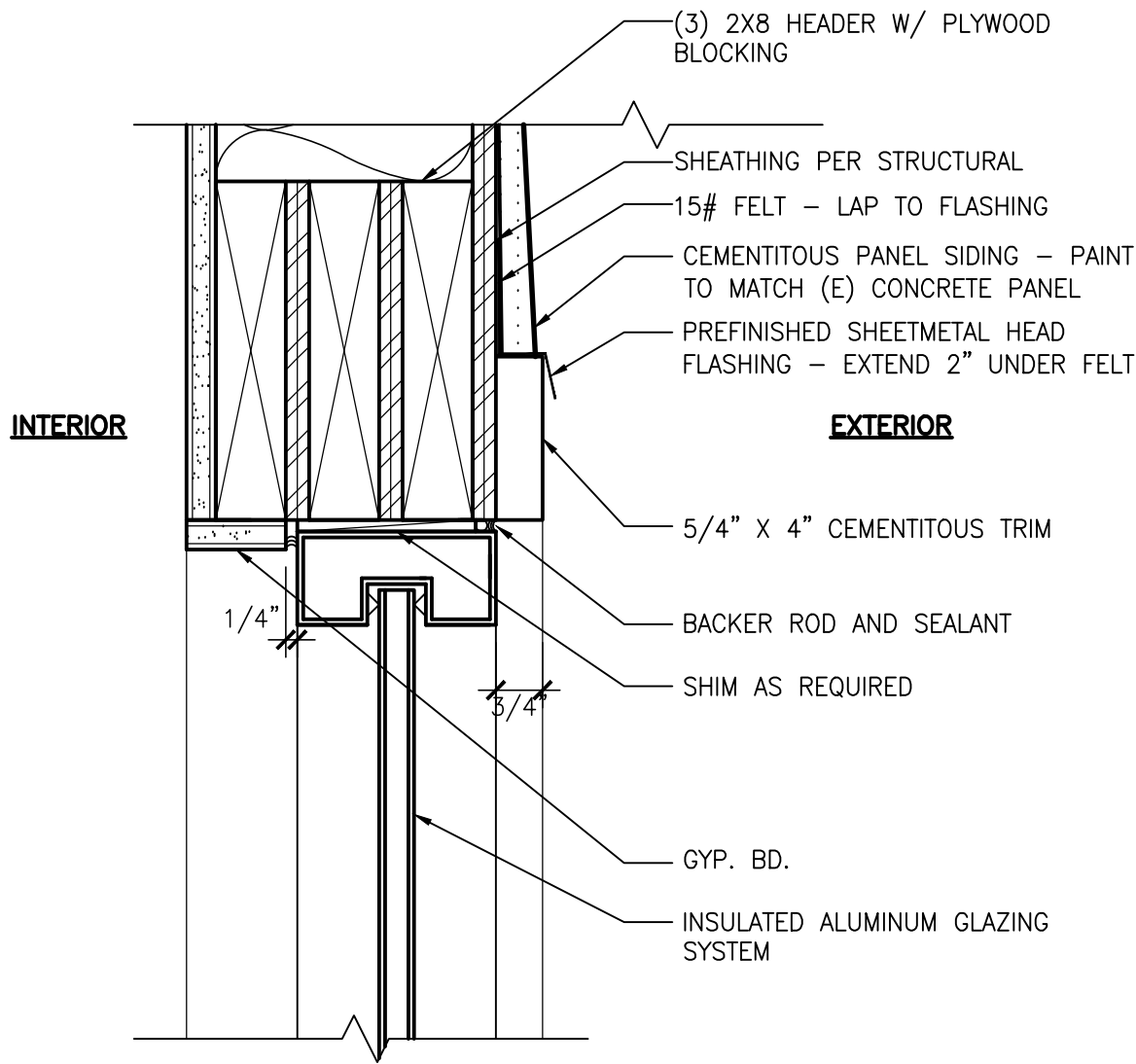
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6 11/14/19							
7 12/05/19							





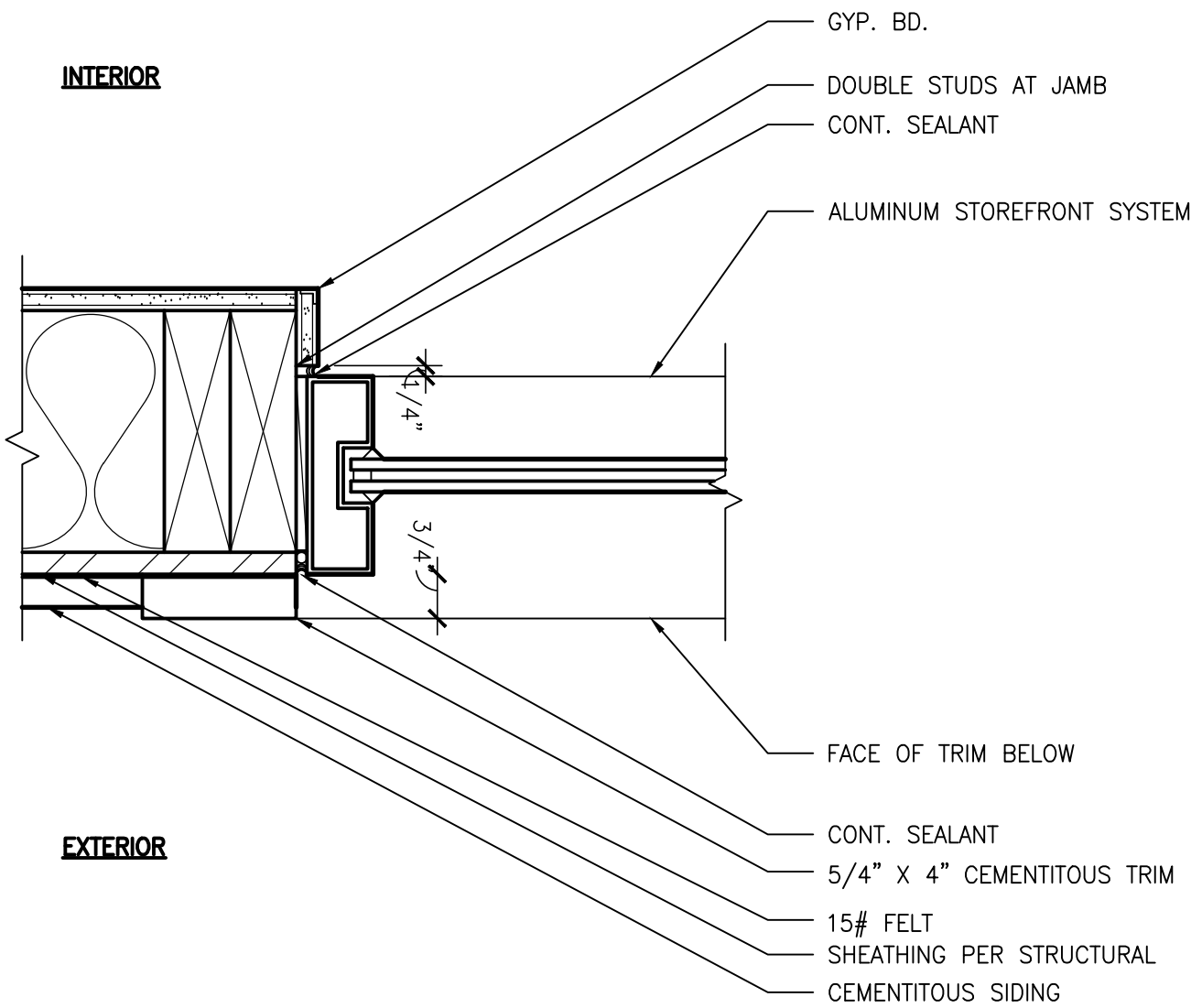
1 NEW WINDOW ELEVATION (QNTY - 2)

A15 3/4" = 1'-0"



2 STOREFRONT HEAD @ WOOD FRAMED WALL

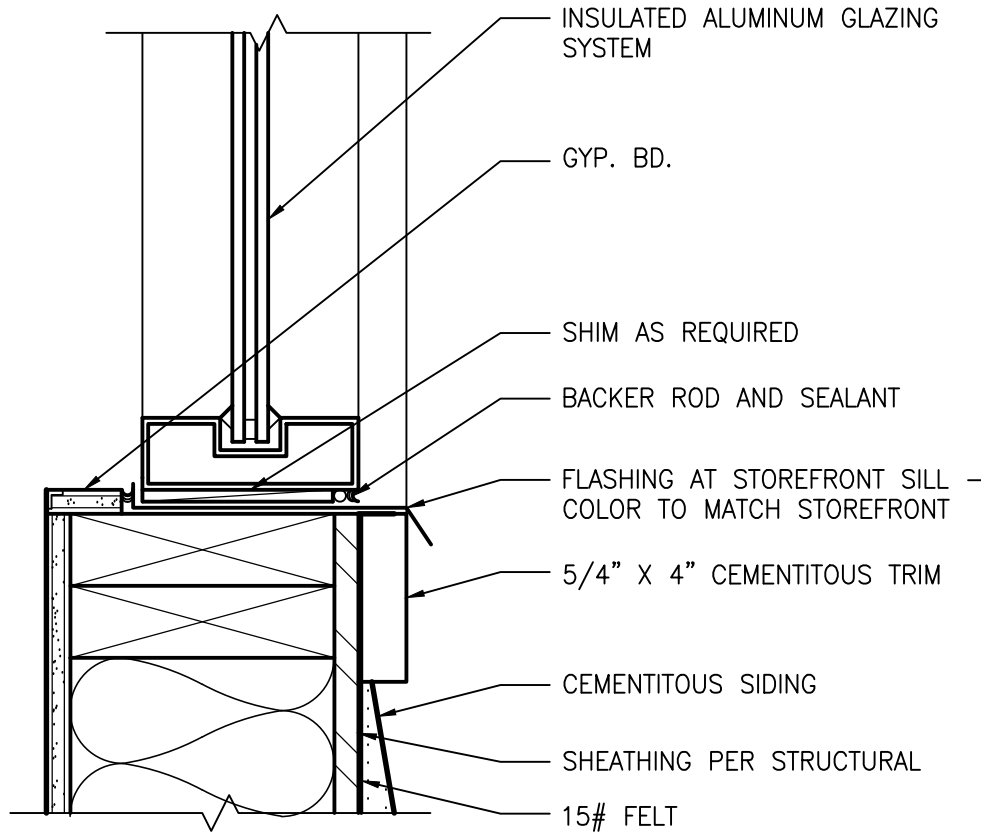
A15 3" = 1'-0"



3 STOREFRONT JAMB @ WOOD FRAME WALL

A15 3" = 1'-0"

08400-01



4 STOREFRONT SILL @ WOOD FRAMED WALL

A15 3" = 1'-0"

CONTRACTOR SHALL
VERIFY AND CONFIRM
ALL CONDITIONS AND
DIMENSIONS AND NOTIFY
ARCHITECT AND/OR
ENGINEER OF ANY
DISCREPANCIES PRIOR
TO START OF WORK.



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BEAVERTON SCHOOL DISTRICT:
MERLO STATION H.S. CTE PROGRAM
1841 SW MERLO DR. BEAVERTON, OREGON 97006

DETAILS AND
SCHEDULES

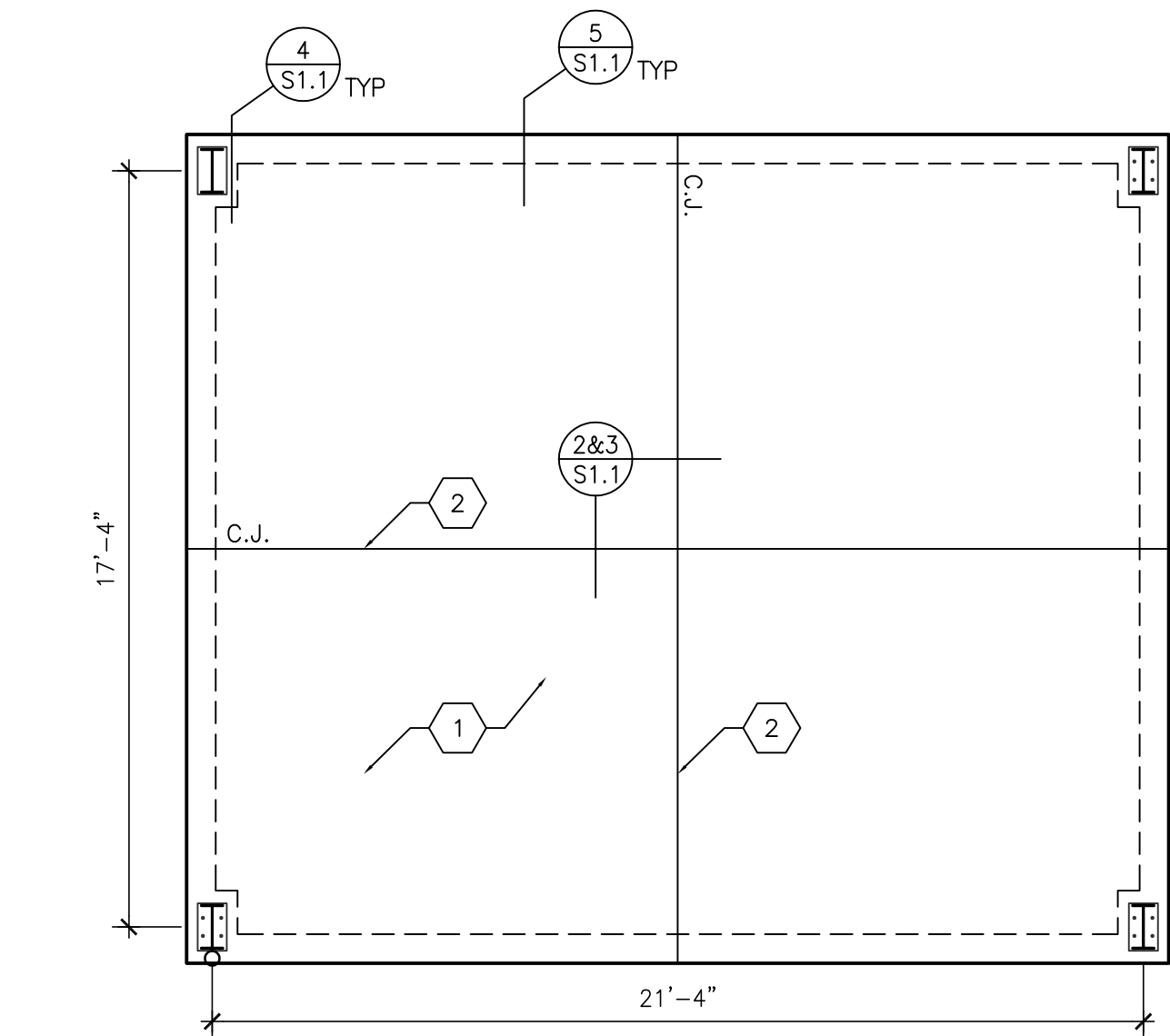
A15

190037.01

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ISSUED DATE	SCHEMATIC DESIGN DOCUMENTS	DESIGN DEVELOPMENT DOCUMENTS	DESIGN DEVELOPMENT DOCUMENTS	50% CD DOCUMENTS	100% CD DOCUMENTS	TYPE 1 APPLICATION	BID DOCUMENTS
1 05/06/19							
2 06/17/19							
3 08/16/19							
4 10/03/19							
5 11/05/19							
6 11/14/19							
7 12/05/19							





1 FOUNDATION PLAN
1/4" = 1'-0"

CODE

2014 OREGON STRUCTURAL SPECIALTY CODE (2014 OSSC)

DESIGN CRITERIA

WIND LOADS:
BASIC WIND SPEED (3 SECOND GUST) = 130 MPH (LRFD)
EXPOSURE CATEGORY = B
F = 17.9 PSF (LRFD) FOR SHELTER

EARTHQUAKE:
SEISMIC PARAMETERS:
OCCUPANCY CAT. III
IMPORTANCE FACTOR = 1.25
MAPPED: S_s = 1.002 SITE CLASS: D
DESIGN: S_{ds} = 0.734 SEISMIC DESIGN CATEGORY = D

METALS

- MISCELLANEOUS STRUCTURAL STEEL TO BE ASTM A36, F_y=36 KSI, UNLESS NOTED OTHERWISE.
- TUBES TO BE ASTM A500, F_y=46 KSI; PIPES ASTM A501, F_y=36 KSI.
- BOLTS TO BE ASTM A307, UNLESS NOTED OTHERWISE.
- WELDING TO BE BY CERTIFIED WELDERS USING E70XX ELECTRODES IN ACCORDANCE WITH AWS STANDARDS.
- ALL STEEL TO BE PAINTED WITH HIGH PERFORMANCE PAINT.
- STEEL WASHERS TO BE USED AT ALL BOLTED CONDITIONS.

GENERAL

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE A/E SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH A/E.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE CHOOSES AN OPTION AND HE SHALL COORDINATE ALL DETAILS.
- WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON.
- ALL DETAIL CUTS SHOULD BE CONSIDERED TYPICAL @ LIKE CONDITIONS

FOUNDATION NOTES:

- SEE ARCHITECTURAL/MECHANICAL DRAWINGS FOR DRAINS, SLOPES, AND OTHER FLOOR DEPRESSIONS NOT SHOWN.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, AND WALLS NOT SHOWN.
- SEE SOILS REPORT FOR ALL FOUNDATION AND SLAB SUPPORT REQUIREMENTS. THIS IS TO INCLUDE ALL EXCAVATION, FILL AND FILL PLACEMENT REQUIREMENTS.
- VERIFY ALL WINDOW AND DOOR WIDTHS AND HEIGHTS WITH ARCHITECTURAL DRAWINGS.
- ANCHOR NON SHEARWALLS WITH 5/8"ø J-BOLTS WITH 7" EMBEDMENT OR 5/8"ø TITEN HD WITH 5" EMBED AT 32" O.C.

FOUNDATION LEGEND

C.J. CONTROL JOINT

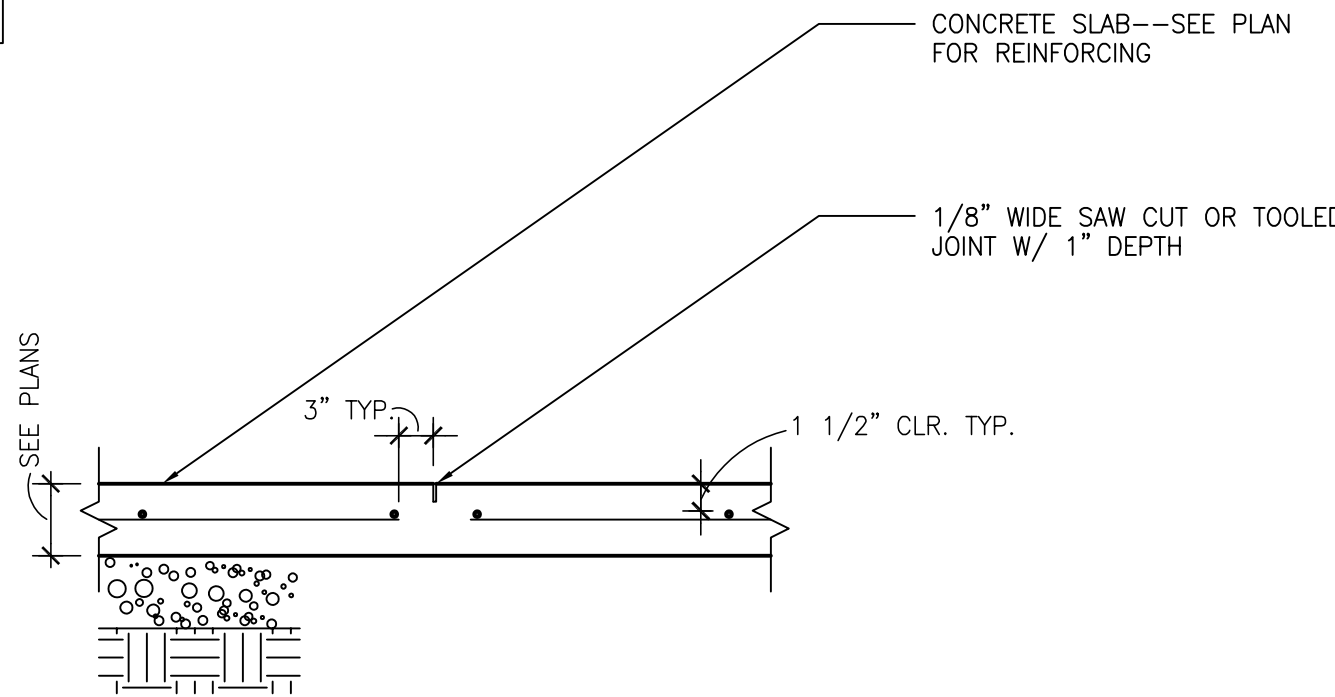
FOUNDATION PLAN KEYNOTES

- 1 4" CONC SLAB, REINF WITH #4 AT 24" O.C.
- 2 CONTROL/CONSTRUCTION JOINTS @ 20'-0" MAX. @ RATIOS N.T.E. 2:1 AND 400 SQ.FT.--SEE DETAILS 2/S2.1 AND 3/S2.1

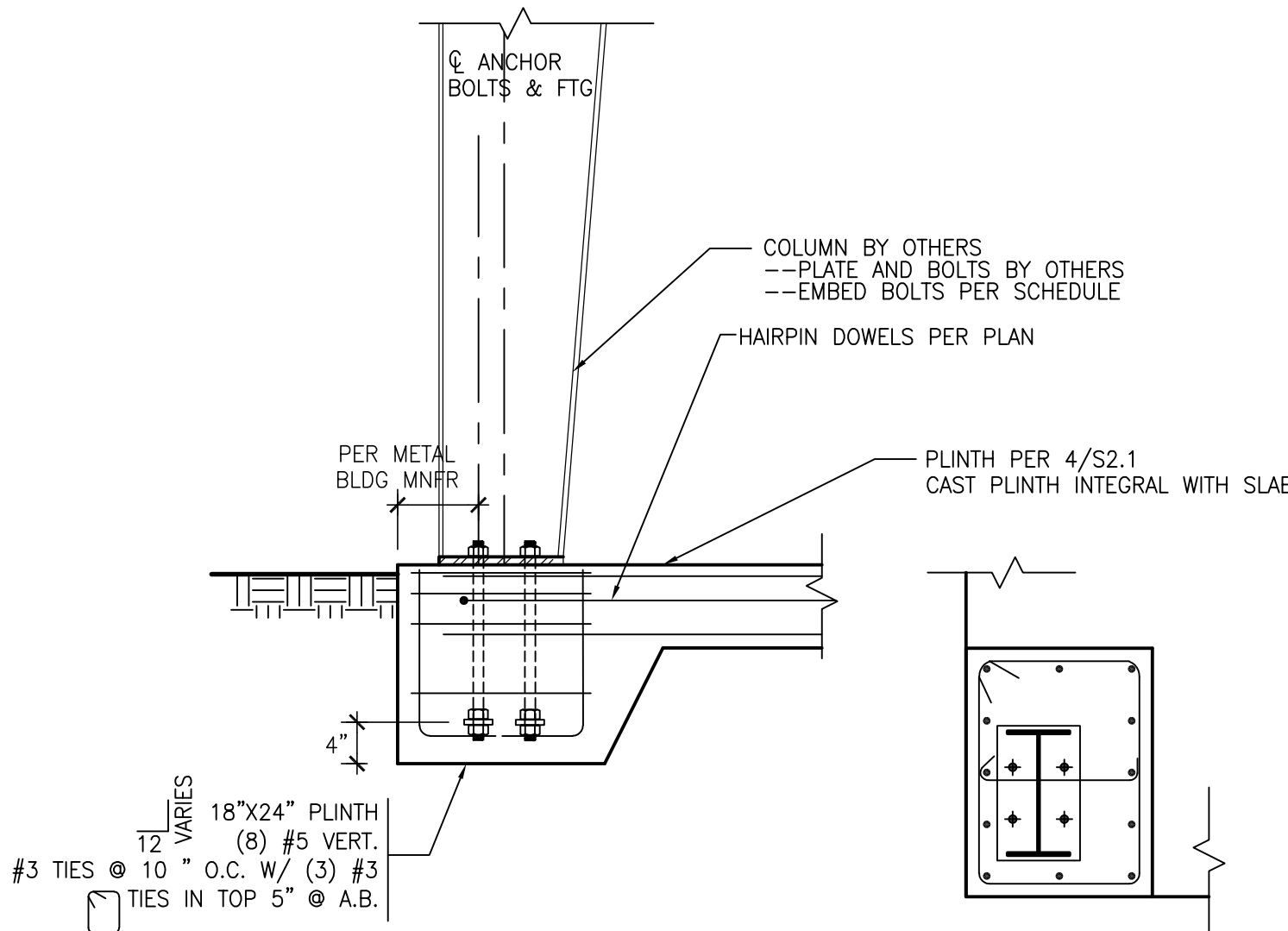
NOTE: ALL DETAIL CUTS SHOULD BE CONSIDERED TYPICAL @ AT LIKE CONDITIONS.

NOTE:
PRE-ENGINEERED METAL BUILDING STRUCTURE IS A DEFERRED SUBMITTAL. PROVIDE A&E WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL.

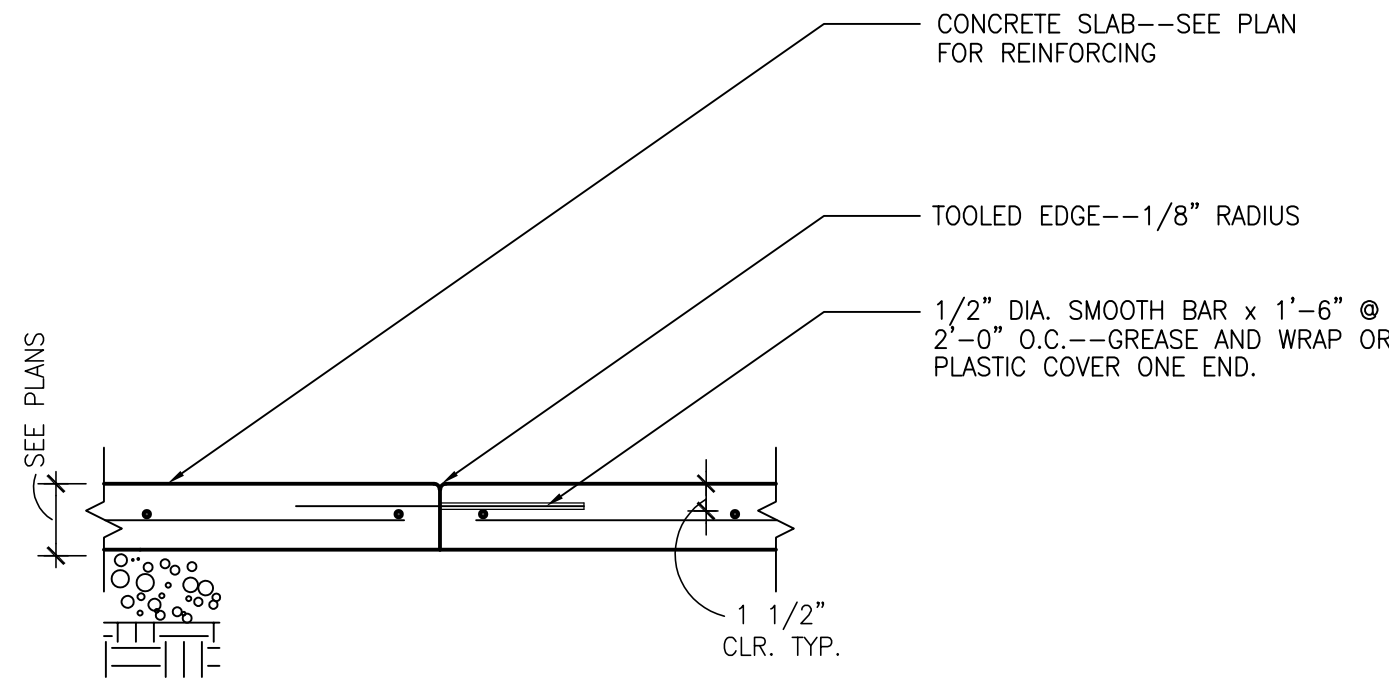
FOUNDATION DESIGN TO BE REVISED WITH FINAL REACTIONS PROVIDED TO ENGINEER



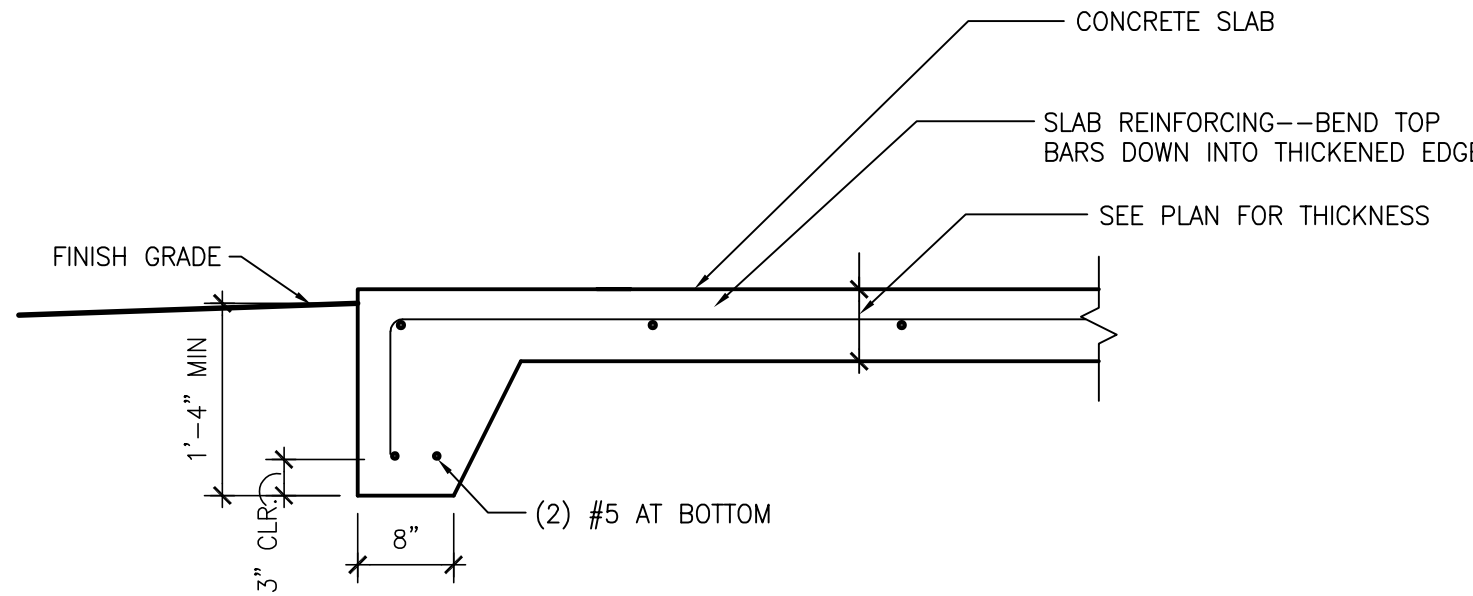
2 CONTROL JOINT--REINFORCED SLAB
3/4" = 1'-0" 03300-02



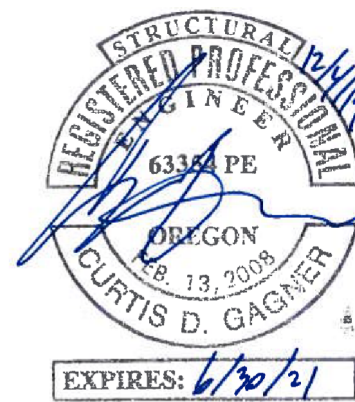
4 TYP. FOOTING AT BUILDING COLUMN
3/4" = 1'-0"



3 CONSTRUCTION JOINT
3/4" = 1'-0" 03300-03



5 THICKENED SLAB EDGE
3/4" = 1'-0"



ISSUED DATE	SCHEMATIC DESIGN DOCUMENTS	DESIGN DEVELOPMENT DOCUMENTS	DESIGN DEVELOPMENT DOCUMENTS	50% CD DOCUMENTS	100% CD DOCUMENTS	TYPE 1 APPLICATION	BID DOCUMENTS
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5 11/05/19							
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CONTRACTOR SHALL VERIFY AND CONFIRM ALL CONDITIONS AND DIMENSIONS AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK.



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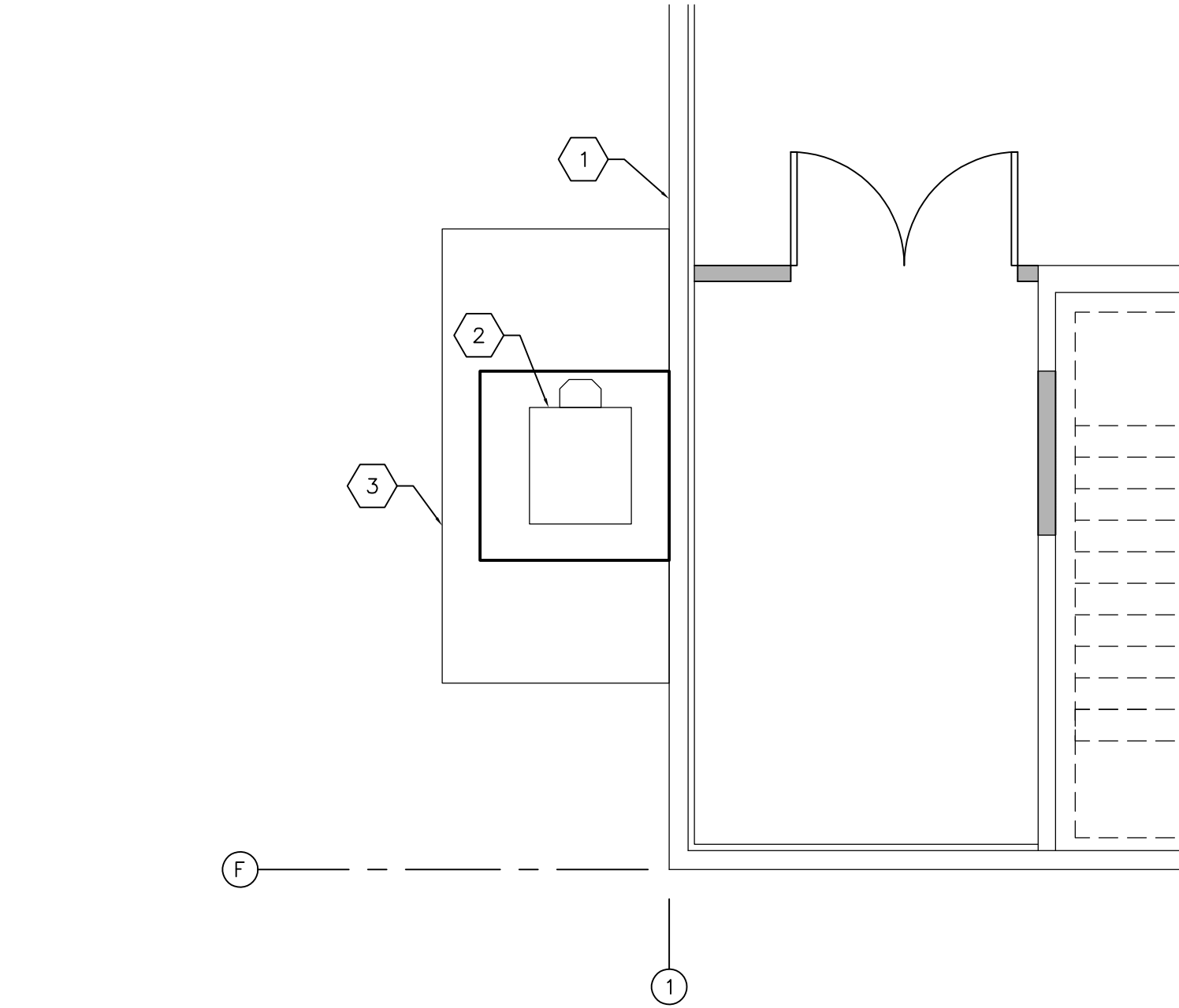
TENANT IMPROVEMENT FOR:
BEAVERTON SCHOOL DISTRICT:
MERLO STATION H.S. CTE PROGRAM
1841 SW MERLO DR. BEAVERTON, OREGON 97006

FOUNDATION PLAN

S1.1

190037.01

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1
S12 **DUST COLLECTOR PLAN**
1/4" = 1'-0"

CODE

2014 OREGON STRUCTURAL SPECIALTY CODE (2014 OSSC)

DESIGN CRITERIA

CANOPY ROOF LOADS:
DEAD = 10 PSF

SNOW BASE = 25 PSF
GROUND = 10 PSF

ROOF PARAMETERS
Ce = 1.0, Cr = 1.0, Is = 1.0
Pf = 7.0 PSF + DRIFTING, 25 PSF MIN
DRIFT = 33PSFx11.5FT

WIND LOADS:
BASIC WIND SPEED (3 SECOND GUST) = 130 MPH (LRFD)
EXPOSURE CATEGORY = B
F = 25.7 PSF (LRFD) FOR BUILDING WALL CHECK

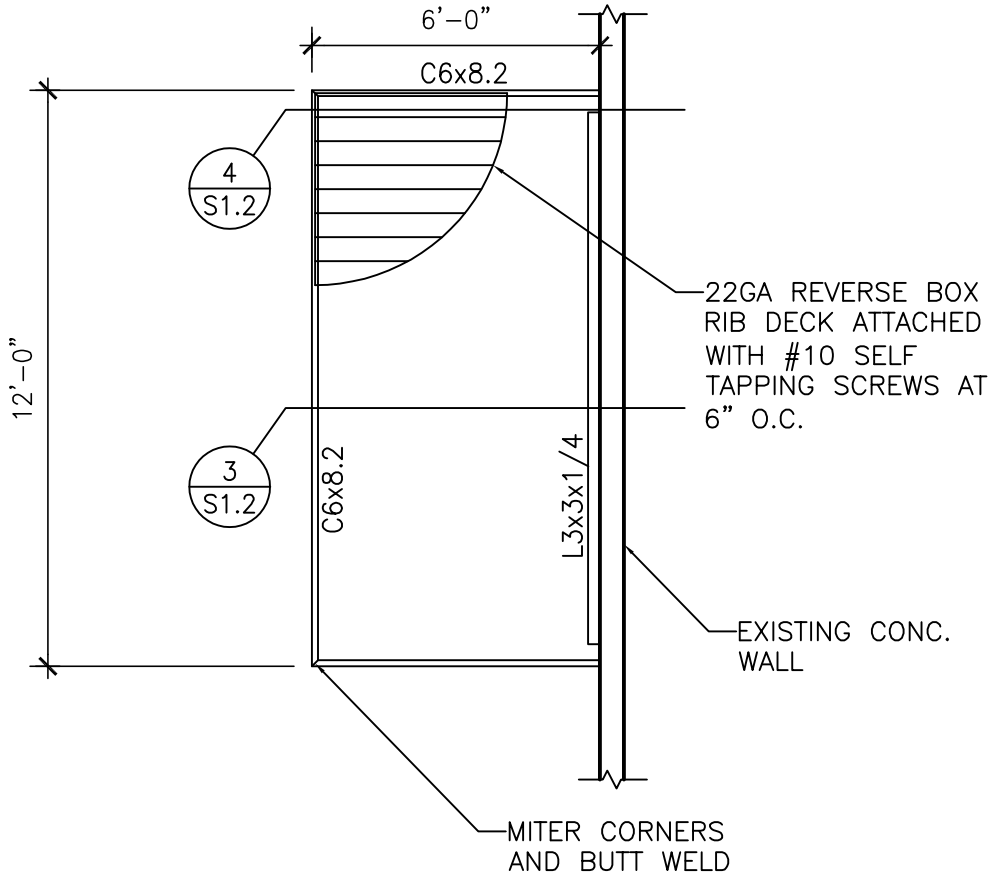
EARTHQUAKE:
SEISMIC PARAMETERS:
OCCUPANCY CAT. III
IMPORTANCE FACTOR = 1.25
MAPPED: Ss = 1.002 SITE CLASS: D
DESIGN: Sds = 0.734 SEISMIC DESIGN CATEGORY = D

NOTES:

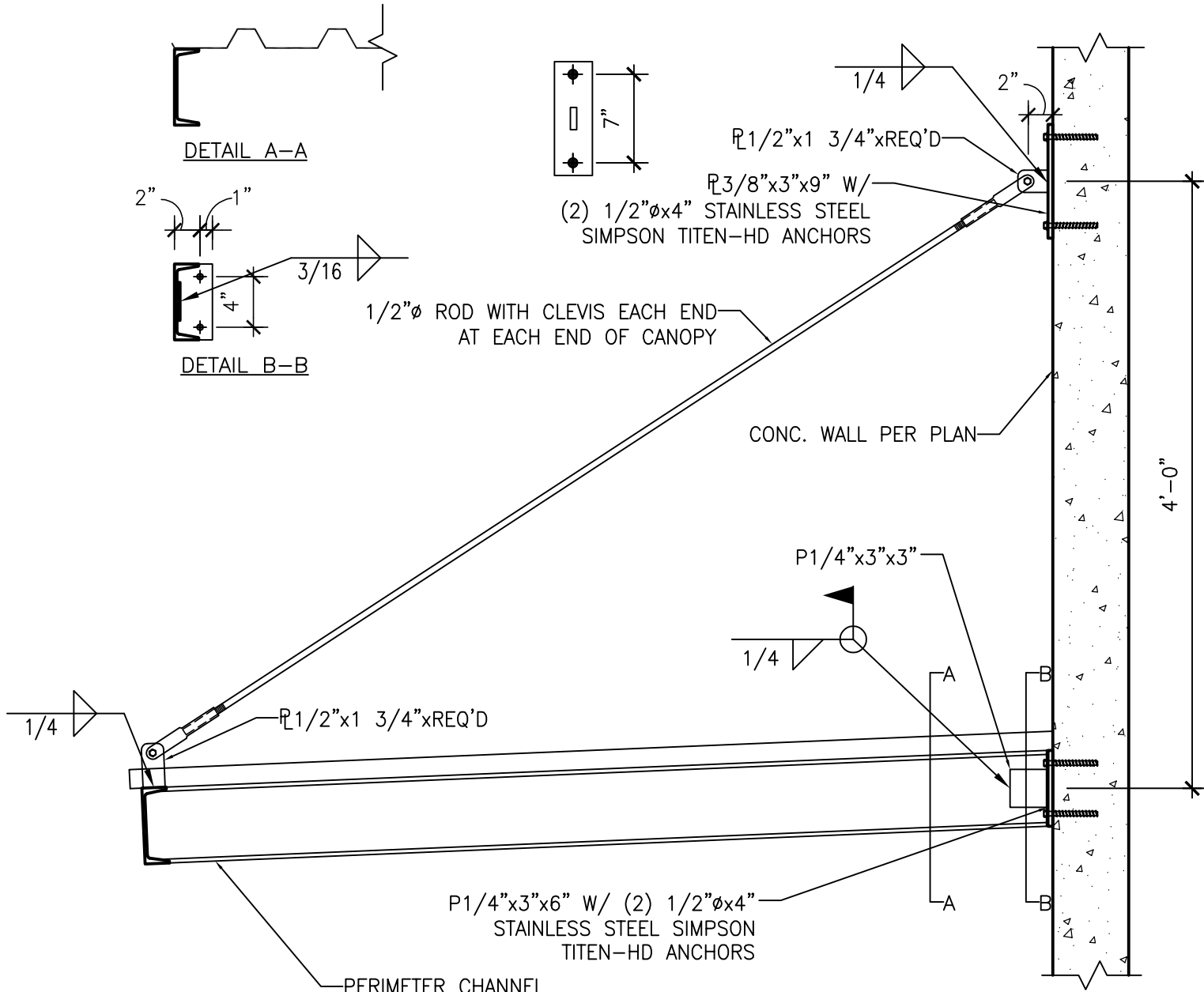
- SEE ARCHITECTURAL/MECHANICAL DRAWINGS FOR DRAINS, SLOPES, AND OTHER FLOOR DEPRESSIONS NOT SHOWN.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, AND WALLS NOT SHOWN.
- SEE SOILS REPORT FOR ALL FOUNDATION AND SLAB SUPPORT REQUIREMENTS. THIS IS TO INCLUDE ALL EXCAVATION, FILL AND FILL PLACEMENT REQUIREMENTS.
- VERIFY ALL WINDOW AND DOOR WIDTHS AND HEIGHTS WITH ARCHITECTURAL DRAWINGS.

PLAN KEYNOTES

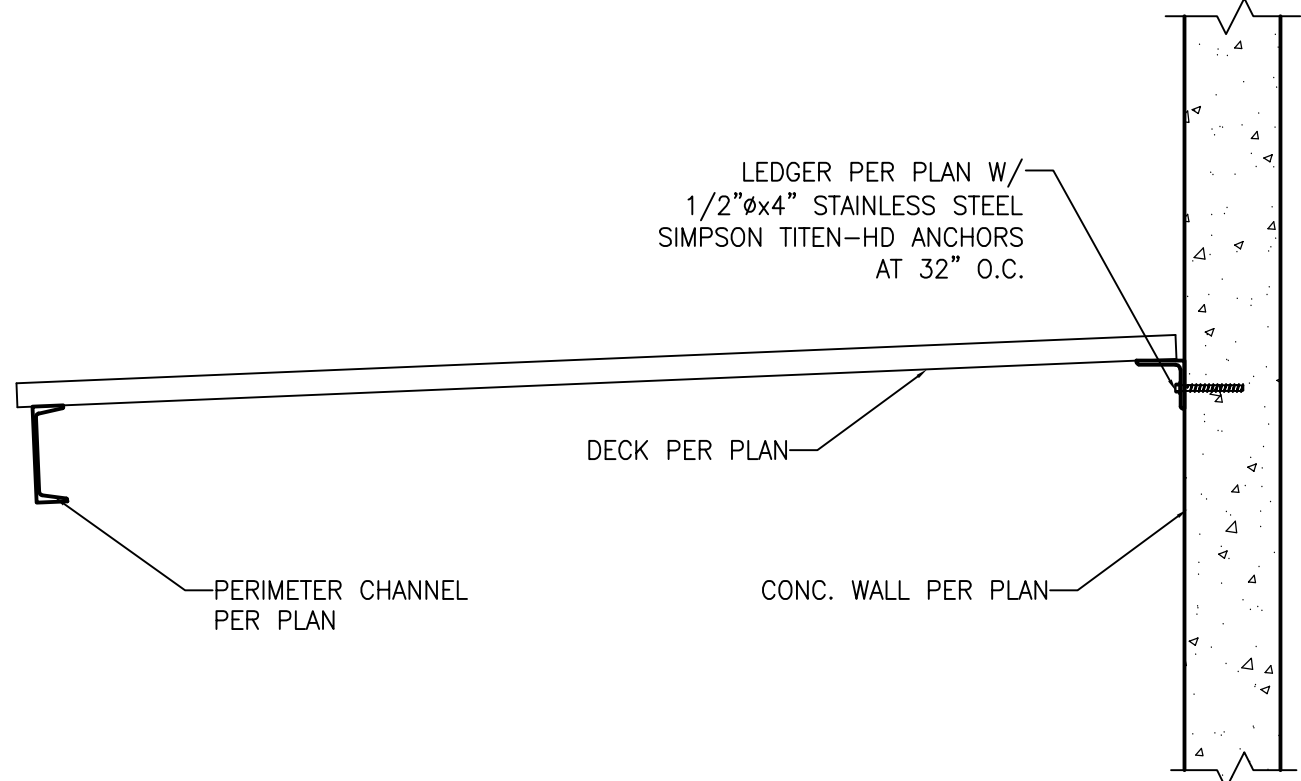
- 1 (E) 6" CONCRETE TILT WALL WITH #4 AT 12" O.C. EACH WAY ASSUMED REINFORCING
- 2 NEW DUST COLLECTOR ON 12" THICK CONCRETE PAD W/ #4 AT 18" O.C. EACH WAY TOP AND BOTTOM
- 3 NEW CANOPY ABOVE PER 2/S1.2



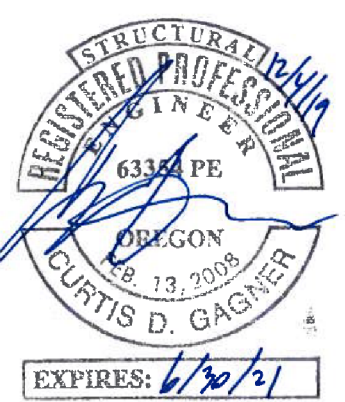
2
S12 **CANOPY FRAMING PLAN**
1/4" = 1'-0"



4
S12 **SECTION AT CANOPY**
1" = 1'-0"



3
S12 **SECTION AT CANOPY**
1" = 1'-0"



ISSUED DATE	1	2	3	4	5	6	7
05/06/19	06/17/19	08/16/19	10/03/19	11/05/19	11/14/19	12/05/19	
SCHEMATIC DESIGN DOCUMENTS	DESIGN DEVELOPMENT DOCUMENTS	DESIGN DEVELOPMENT DOCUMENTS	50% CD DOCUMENTS	100% CD DOCUMENTS	TYPE 1 APPLICATION	BID DOCUMENTS	

CONTRACTOR SHALL VERIFY AND CONFIRM ALL CONDITIONS AND DIMENSIONS AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK.



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DUST COLLECTOR AND CANOPY

S1.2

190037.01

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\\N:\302_CDA\001_001_Merle CTE\01_Initial Review_MJ.dwg Dec 03, 2019 - 9:55am

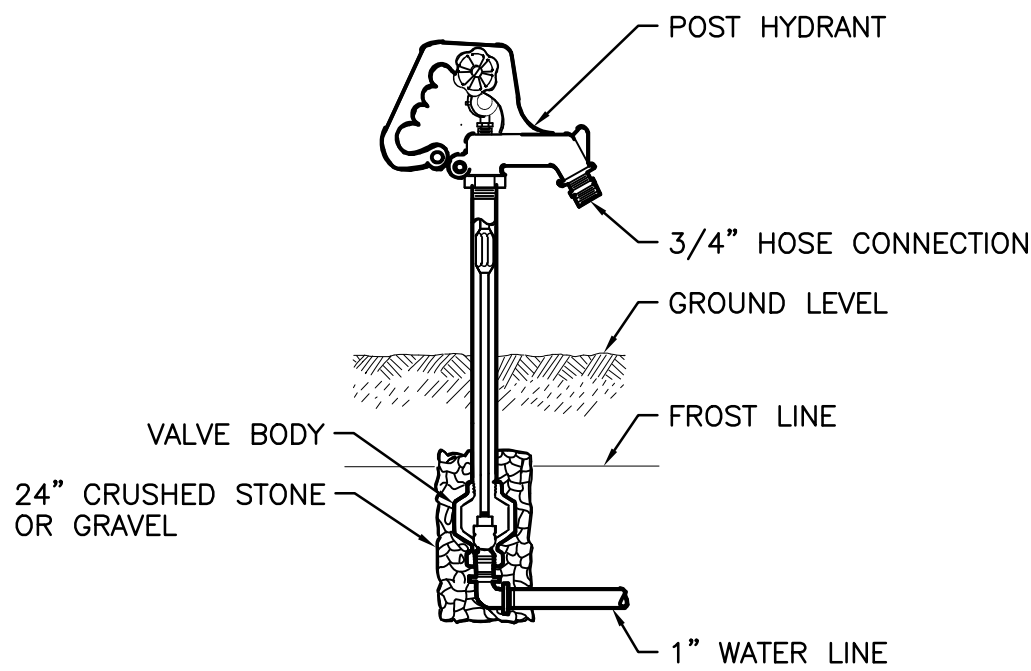
AIR COMPRESSOR SCHEDULE	
MARK NUMBER	AC 1
SYSTEM	SHOP AIR
TYPE	VERTICAL TANK
TANK MOUNTED	YES
CAPACITY (SCFM)	35
PRESSURE (PSIG)	175
HORSEPOWER	10
ELECTRICAL (V-PH)	480/3
NEMA RATING	4
DESIGN WEIGHT (LBS)	800
MANUFACTURER/MODEL	INGERSOLL RAND MODEL 2545K10-V-NEMA4-10HP
NOTE: SUPPLY WITH STARTER	

PLUMBING FIXTURE CONNECTION SCHEDULE ①							
MARK	FIXTURE	W	V	CW	HW	TW	REMARKS
S-1	SINK	2	1-1/2	1/2	1/2		ELKAY DRKR2517, LK-35 STRAINER, CHICAGO 1100-GN2AE3VPAXKCP
EW-1	EYE/FACE WASH					1/2	DECK MOUNTED, PROVIDE VACUUM BREAKER HAWS SP212, PROVIDE EMERGENCY TEMPERING VALVE MODEL 9210EW AXION FOR TEPID WATER @ 10GPM.
HB-1	YARD HYDRANT			1			WOODFORD, MODEL Y2 AUTOMATIC DRAINING, BACKFLOW PROTECTED, FROST PROOF YARD HYDRANT. CONTRACTOR TO ADD STEEL TUBE REINFORCEMENT TO YARD HYDRANT FOR PROTECTION FROM CHILDREN.
① BRANCH PIPE SIZE TO FIXTURE SAME AS CONNECTION SIZE SHOWN ABOVE UNLESS INDICATED OTHERWISE ON DRAWINGS.							

PLUMBING LEGEND		
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RECIRC
	140	140°F HOT WATER
	140R	140°F HOT WATER RECIRC
	V	VENT
	W	SANITARY WASTE (ABOVE GRADE)
	W	SANITARY WASTE (BELOW GRADE)
	RD	RAIN DRAIN (ABOVE GRADE)
	RD	RAIN DRAIN (BELOW GRADE)
	G	NATURAL GAS
B.G. BELOW GRADE		
DS DOWN SPOUT		
(E) EXISTING		
(N) NEW		
(R) REMOVE		
VTR VENT THRU ROOF		
o CO FLOOR CLEANOUT		
o COTG CLEANOUT TO GRADE		
- WCO WALL CLEANOUT		
BALL VALVE		
CHECK VALVE		
HOSE BIBB		
PLUMBING FIXTURE MARK NO. SEE PLUMBING FIXTURE CONNECTION SCHEDULE.		
SHEET NOTE		
CONNECT TO EXISTING AT THIS POINT. VERIFY EXACT LOCATION, SIZE AND CONDITION.		

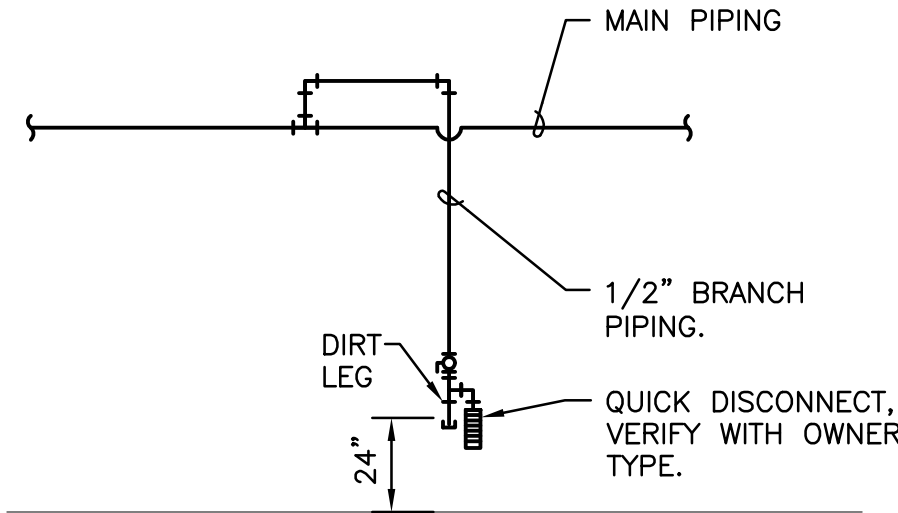
DRAWING INDEX

P0.1 SYMBOLS AND DETAILS
P1.1 FLOOR PLAN - DEMOLITION
P1.2 FLOOR PLAN - PLUMBING

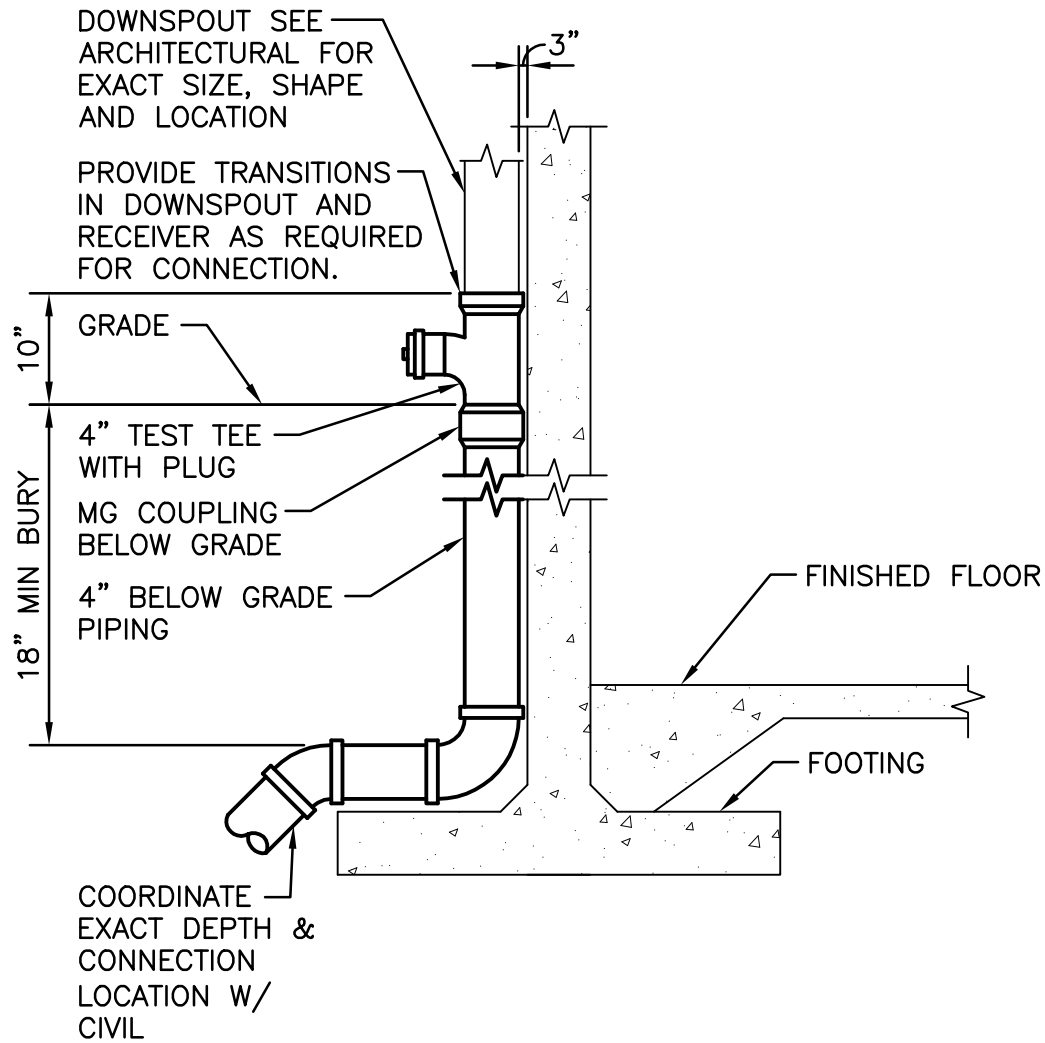


CONTRACTOR TO PROVIDE SIGNAGE:
PER. OPSC 601.3.3 ALTERNATE WATER SOURCES:
ALTERNATE WATER SOURCES SHALL HAVE A PURPLE (PANTONE
COLOR NO. 512, 522C, OR EQUIVALENT) BACKGROUND WITH
UPPERCASE LETTERING AND SHALL BE FIELD OR FACTORY
MARKED AS FOLLOWS:
601.3.5 OUTLETS. "CAUTION NONPOTABLE WATER, DO NOT DRINK."

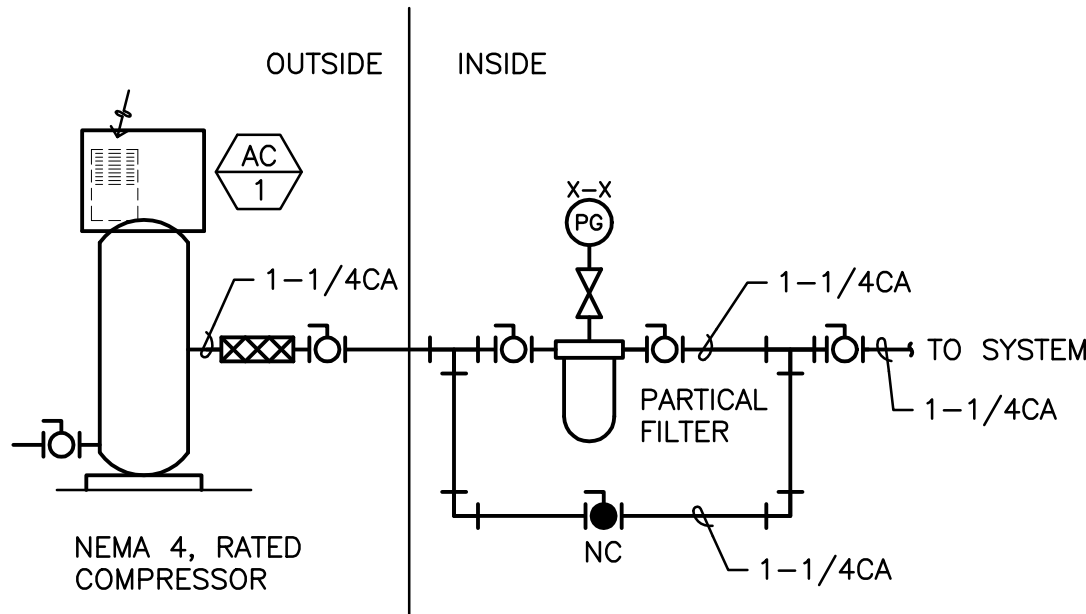
1 YARD HYDRANT DETAIL P0.1 NOT TO SCALE



2 AIR DROP DETAIL P0.1 NOT TO SCALE



4 DOWNSPOUT DETAIL P0.1 NOT TO SCALE



3 AIR COMPRESSOR DETAIL P0.1 NOT TO SCALE



2019.12.03 11:14:27-0800

ISSUED DATE
1 06/18/19 SCHEMATIC DESIGN DOCUMENTS
2 10/03/19 DESIGN DEVELOPMENT DOCUMENTS
3 11/05/19 100% CD SUBMITTAL
4 12/05/19 BID DOCUMENTS



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1841 SW MERLO DR. BEAVERTON, OREGON 97006

SYMBOLS AND DETAILS

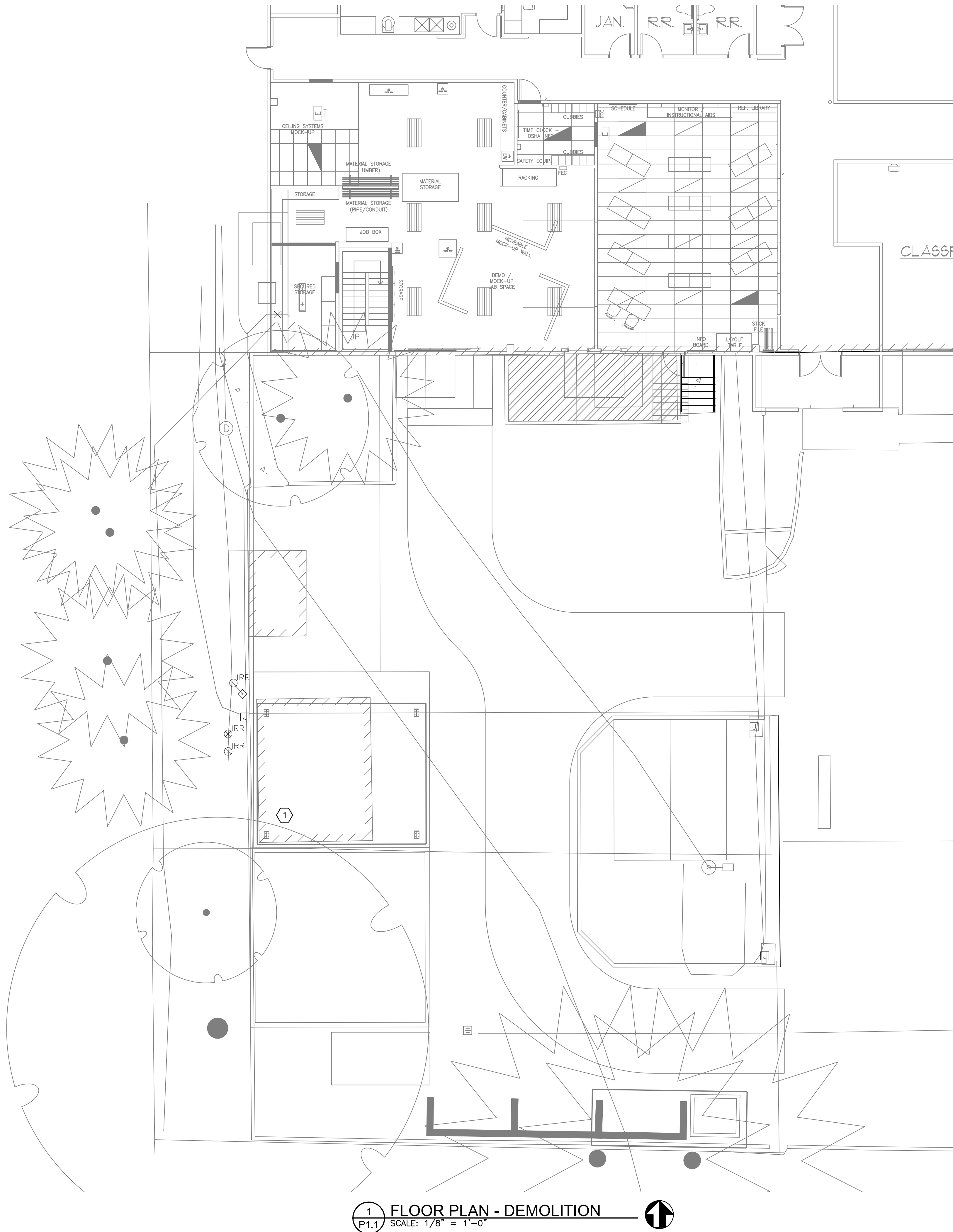
P0.1

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\\VA\302_cda\099_Merlos CTE\001_Initial Review M3\099\p1.1.dwg Dec 03, 2019 9:55am



1 FLOOR PLAN - DEMOLITION
P1.1 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, TEE, OR ELBOW WHICH MAY BE REQUIRED TO INSTALL WORK IN THE SPACE PROVIDED. DO NOT SCALE DRAWINGS FOR ROUGHING-IN MEASUREMENTS, OR USE AS SHOP DRAWINGS. MAKE FIELD MEASUREMENTS AND PREPARE SHOP DRAWINGS AS REQUIRED. COORDINATE WORK WITH SHOP DRAWINGS OF OTHER TRADES. PROVIDE ANY BENDS, OFFSETS AND ELBOWS WHERE REQUIRED BY LOCAL CONDITIONS FROM MEASUREMENTS TAKEN AT THE BUILDING (SUBJECT TO APPROVAL) AND WITHOUT ADDITIONAL COST TO THE PROJECT. THE RIGHT IS RESERVED TO MAKE ANY REASONABLE CHANGES IN OUTLET LOCATION PRIOR TO ROUGH-IN.

NOTES THIS SHEET

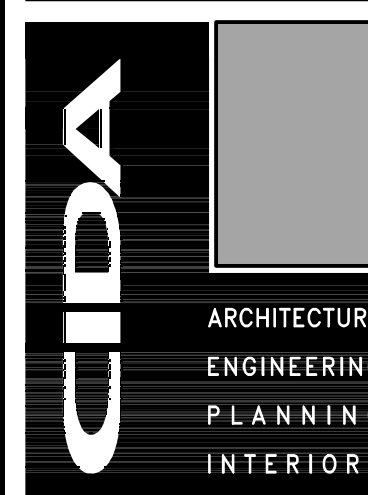
- 1 CONTRACTOR TO REMOVE EXISTING YARD HOSE BIB, EXISTING SUPPLY TO BE CAPPED AND BURIED.

R&W
ENGINEERING, INC.
"Engineering Integrated Solutions"
9615 S.W. Allen Boulevard
Suite 107
Beaverton, Oregon 97005
Phone: (503) 726-3325
Fax: (503) 726-3326
E-mail: rweing@rweing.com
Project No.: 382.099.001 Contact: W. SCHLOTTELDT



2019.12.03 11:13:10-08'00'

ISSUED DATE	SCHEMATIC DESIGN DOCUMENTS	DESIGN DEVELOPMENT DOCUMENTS	100% CD SUBMITTAL	BID DOCUMENTS
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2 10/03/19				
3 11/05/19				
4 12/05/19				



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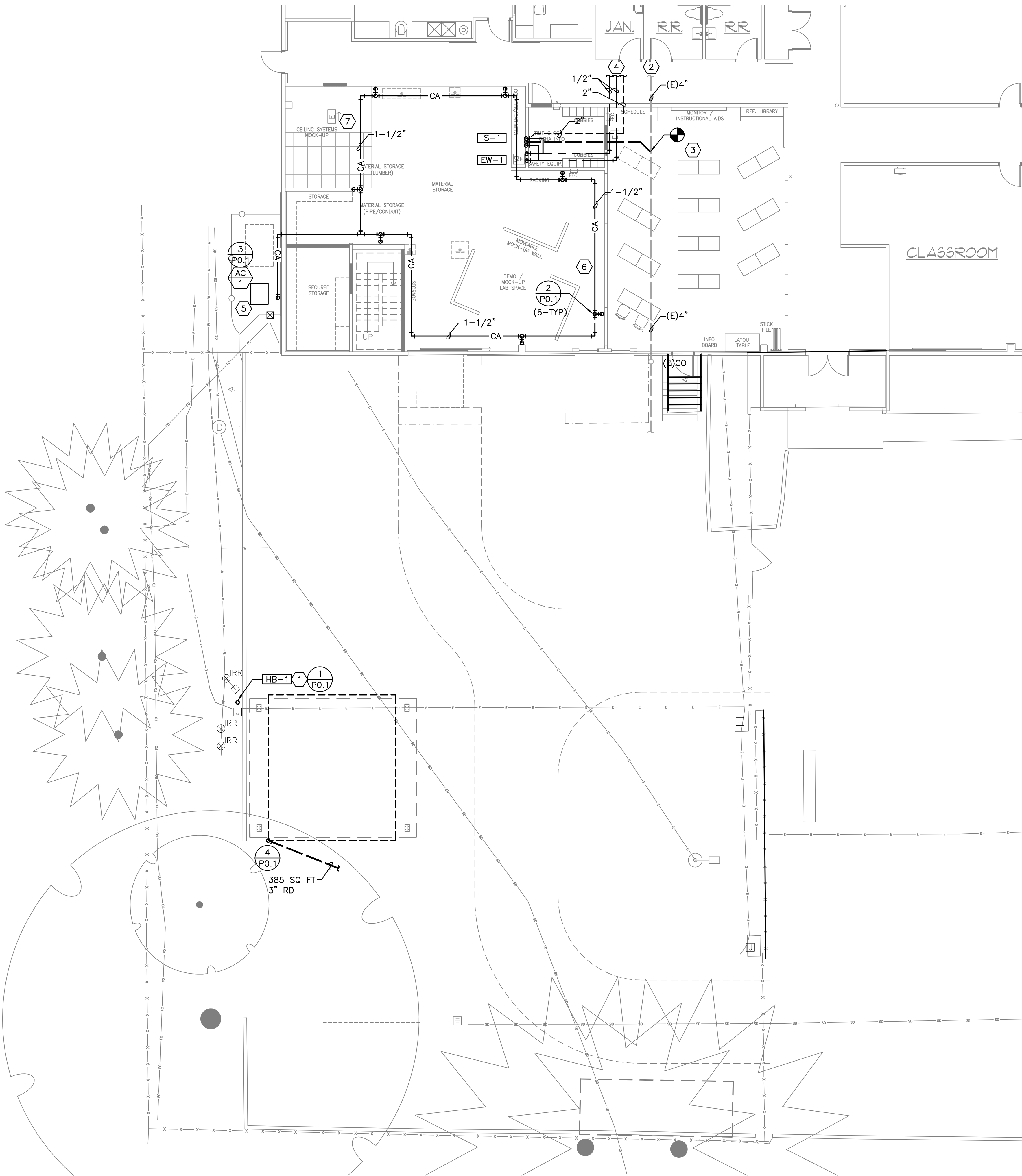
FLOOR PLAN -
DEMOLITION

P1.1

190037.01

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\\VA\382_CDA\090_Merlos CTE\001_P1.2.dwg Dec 03, 2019 9:55am



1 FLOOR PLAN - PLUMBING
P1.2 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, TEE, OR ELBOW WHICH MAY BE REQUIRED TO INSTALL WORK IN THE SPACE PROVIDED. DO NOT SCALE DRAWINGS FOR ROUGHING-IN MEASUREMENTS, OR USE AS SHOP DRAWINGS. MAKE FIELD MEASUREMENTS AND PREPARE SHOP DRAWINGS AS REQUIRED. COORDINATE WORK WITH SHOP DRAWINGS OF OTHER TRADES. PROVIDE ANY BENDS, OFFSETS AND ELBOWS WHERE REQUIRED BY LOCAL CONDITIONS FROM MEASUREMENTS TAKEN AT THE BUILDING (SUBJECT TO APPROVAL) AND WITHOUT ADDITIONAL COST TO THE PROJECT. THE RIGHT IS RESERVED TO MAKE ANY REASONABLE CHANGES IN OUTLET LOCATION PRIOR TO ROUGH-IN.

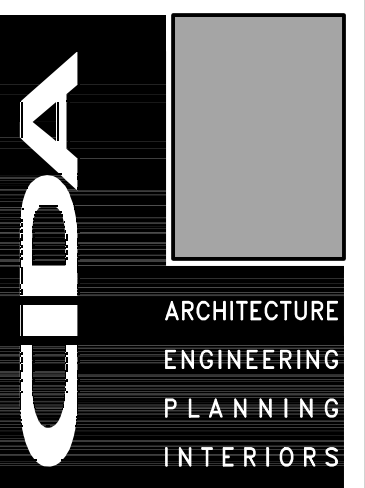
NOTES THIS SHEET

- CONTRACTOR TO PROVIDE NEW YARD HYDRANT AND NONPOTABLE WATER SIGNAGE AT EXTERIOR COVERED WELDING SHELTER 21'-4"x18'-4" SEE CIVIL FOR LOCATION. WATER SUPPLY TO TIE-INTO EXISTING WATER SERVING TO BE REMOVED YARD HOSE BIB.
- CONTRACTOR TO LOCATE EXISTING SANITARY SEWER SERVING EXISTING JANITOR ROOM & RESTROOMS.
- CONTRACTOR TO ROUTE AND TIE-IN NEW 2"WASTE FROM NEW SINK TO EXISTING SANITARY SEWER.
- CONTRACTOR TO ROUTE AND TIE-IN NEW 1/2"CW, 1/2"HW AND 1-1/2"VENT TO EXISTING UTILITIES SERVING EXISTING RESTROOMS.
- 1-1/4"COMPRESSED AIR SUPPLY FROM AIR COMPRESSOR TO 1-1/4"COMPRESSED AIR LOOP IN BUILDING.
- COORDINATE COMPRESSED AIR PIPING WITH INTERIOR ROLL UP DOOR AT THIS LOCATION.
- ROUTE PIPING ABOVE T-BAR CEILING.



2019.12.03 11:12:43-08'00'

ISSUED DATE	SCHEMATIC DESIGN DOCUMENTS	DESIGN DEVELOPMENT DOCUMENTS	100% CD SUBMITTAL	BID DOCUMENTS
1 06/18/19				
2 10/03/19				
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4 12/05/19				



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FLOOR PLAN -
PLUMBING

P1.2

190037.01

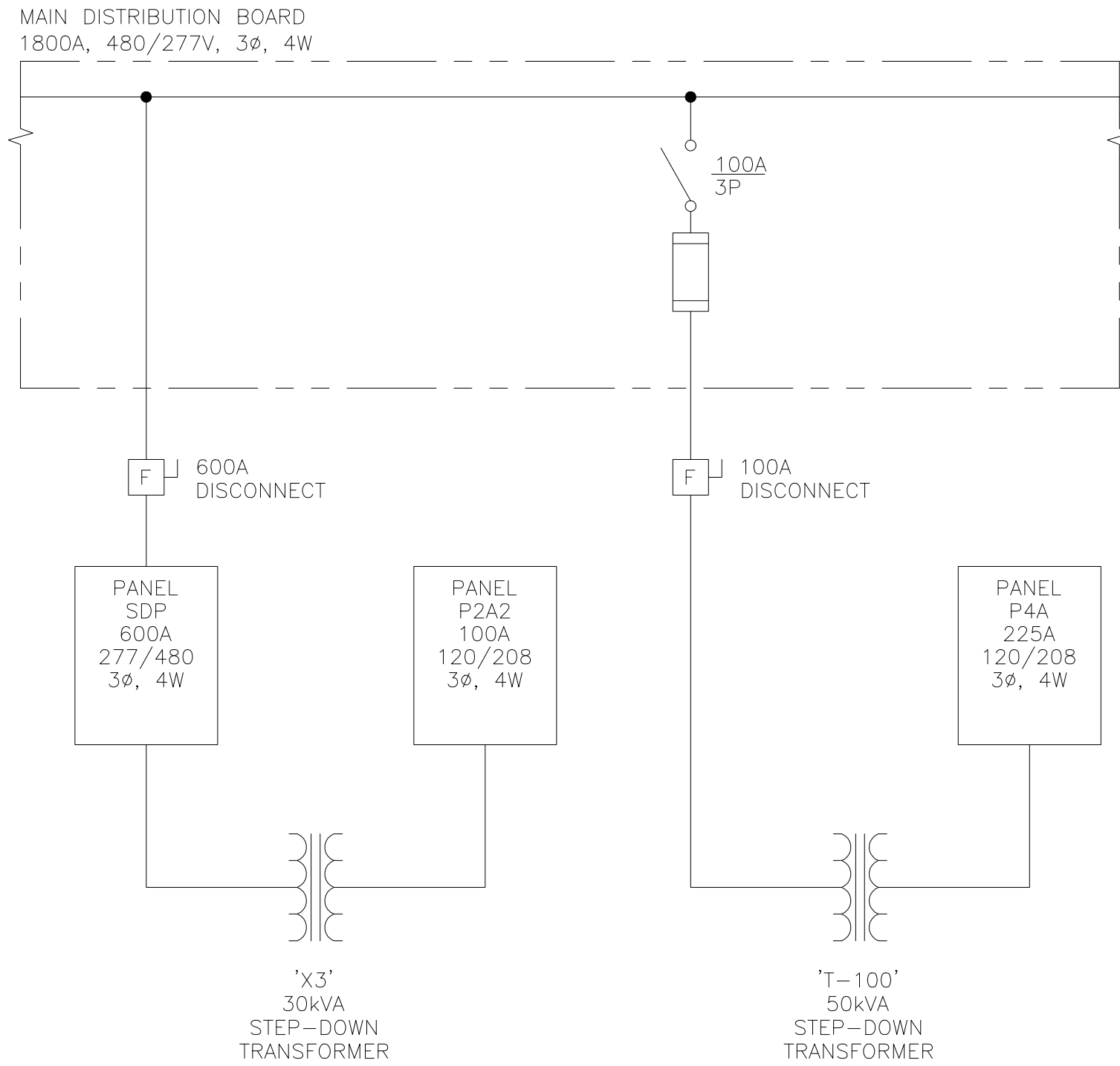
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LUMINAIRE SCHEDULE							
LUMINAIRE TYPE	DESCRIPTION	LAMP TYPE	INPUT WATTS	DRIVER/BALLAST	COLOR TEMP	MOUNTING HEIGHT	MANUFACTURER AND MODEL SERIES
A	2x4 TROFFER, 4800 LUMEN, SQUARE-LINEAR PRISUM DIFFUSER, MVOLT.	LED	45	DIMMABLE TO 1%	35K 80 CRI	10'-6"	LITHONIA LIGHTING: 20BLT SERIES OR APPROVED.
AE	SAME AS TYPE "A" WITH 1400 LUMEN EMERGENCY BATTERY BACKUP.	LED	45	DIMMABLE TO 1%	35K 80 CRI	10'-6"	LITHONIA LIGHTING: 20BLT SERIES OR APPROVED.
B	HIGH BAY, 24,000 LUMEN, STANDARD EFFICIENCY, SEMI-DIFFUSED POLYCARBONATE, GENERAL DISTRIBUTION, MVOLT, PRE-WIRED HIGH MOUNTED MOTION SENSOR WITH DIMMING, GLOSS WHITE FINISH.	LED	154	DIMMABLE	35K 80 CRI	17'-6"	LITHONIA LIGHTING: IBGN SERIES OR APPROVED.
BE	SAME AS TYPE "B" WITH 10W EMERGENCY BATTERY BACKUP.	LED	154	DIMMABLE	35K 80 CRI	17'-6"	LITHONIA LIGHTING: IBGN SERIES OR APPROVED.
CE	4-FOOT SURFACE MOUNTED LINEAR, 4000 LUMEN, STANDARD EFFICIENCY, WIDE DIFFUSED LENS, MVOLT, WHITE FINISH.	LED	27.58	DIMMABLE TO 1%	35K 80 CRI	10'-6"	LITHONIA LIGHTING: CLX SERIES OR APPROVED.
DE	4-FOOT LED WALL BRACKET LUMINAIRE. COLD ROLLED STEEL HOUSING, WHITE POWDER COAT FINISH, IMPACT MODIFIED LINEAR FACETED REFRACTOR, TAMPER-PROOF SCREWS. PROVIDE INTEGRAL OCCUPANCY SENSOR.	LED	40	DIMMABLE 50% WHEN UNOCCUPIED	40K 80 CRI	VARIES STAIRWELL	LITHONIA LIGHTING: WL4 SERIES OR APPROVED OCCUPANCY SENSOR: MSD7
F1	SUSPENDED LINEAR, POLYCARBONATE HOUSING, TAMPER-RESISTANT, WET LOCATION LISTED. FROSTED POLYCARBONATE LENS.	LED	115	STANDARD	35K 80 CRI	10'-0"	LITHONIA LIGHTING: VAP-LED SERIES OR APPROVED.
F2	SAME AS TYPE "F1" WITH THE ADDITION OF A MOTION SENSOR, WET LOCATION, ON/OFF OPERATION.	LED	115	STANDARD	35K 80 CRI	10'-0"	LITHONIA LIGHTING: VAP-LED SERIES OR APPROVED.
X	EXIT SIGN. QUANTUM THERMOPLASTIC, PANEL FACE, WHITE HOUSING, SINGLE FACE, GREEN LETTERING, NICKEL-CADMIUM BATTERY	LED	1	N/A	N/A	ABOVE DOOR	LITHONIA LIGHTING: LQM SERIES OR APPROVED.

HVAC/PLUMBING EQUIPMENT CONNECTION SCHEDULE								
TAG	DESCRIPTION	SPACE SERVED	LOAD	VOLT/PH	CIRCUIT	DISCONNECT	FEEDER	NOTES
AC-1	AIR COMPRESSOR	CTE LAB	10HP	480/3	SDP-21,23,25.	30 AS, 20 AT	303	1
DC-1	DUST COLLECTOR	CTE LAB	9.6A	480/3	SDP-27,29,31.	30 AS, 20 AT	203	1
NOTES: 1. CONTROLLED BY WALL SWITCH.								



1 PARTIAL ONE-LINE DIAGRAM
E0.1 NOT TO SCALE

ELECTRICAL SYMBOL LIST			
AFF	ABOVE FINISHED FLOOR	⌚	RECEPTACLE - DUPLEX, MOUNT 18" AFF, UON
AS	AMP SWITCH	⌚	RECEPTACLE - DOUBLE DUPLEX, MOUNT 18" AFF, UON
AT	AMP TRIP	⌚	RECEPTACLE - MOUNTED ABOVE COUNTER
F	FLEX CONDUIT	⌚	RECEPTACLE - ISOLATED GROUND
G	GROUND WIRE	⌚	RECEPTACLE - SPECIAL PURPOSE
GFI	GROUND FAULT INTERRUPTER	⌚	RECEPTACLE - SINGLE, CONFIGURATION AS SHOWN
GND	GROUND	⌚	RECEPTACLE - PENDANT DROP
IG	ISOLATED GROUND	⌚	OUTLET - FLUSH CEILING
UP	UNDERGROUND POWER	⌚	SWITCH DESIGNATOR
UT	UNDERGROUND TELCO	⌚	SWITCH - SINGLE-POLE, MOUNT 48" AFF, UON
WP	WEATHERPROOF	⌚	SWITCH - THREE-WAY, MOUNT 48" AFF UON.
—	CONDUIT - BELOW GRADE	⌚	SWITCH - FOUR-WAY
—	CONDUIT - CONCEALED	⌚	SWITCH - DIMMER, MOUNT 48" AFF, UON
—	CONDUIT - EXPOSED	⌚	JUNCTION BOX - CEILING-MOUNTED
—	CONDUIT - FLEXIBLE	⌚	JUNCTION BOX - WALL-MOUNTED
—	CONDUIT - STUB-DOWN	⌚	TRANSFORMER
—	CONDUIT - STUB-OUT	⌚	PANEL - 208Y/120V BRANCH CIRCUIT (SURFACE-MOUNTED)
—	CONDUIT - STUB-UP	⌚	
—	HOME RUN. HASH MARKS INDICATE (2) #12 WIRE UNLESS NOTED OTHERWISE	⌚	
—	CONDUCTORS IN CONDUIT, (2) #12 OR AS NOTED (QUANTITY AS INDICATED BY HASH MARKS)	⌚	
—	GROUND WIRE	⌚	
—	GROUND CONNECTION	⌚	
—	EQUIPMENT CONNECTION	⌚	
⊗	EXIT SIGN - CEILING-MOUNTED	⌚	
⊗	EXIT SIGN - WALL-MOUNTED	⌚	
⊗	EXIT SIGN - DOUBLE FACED WITH DIRECTIONAL ARROWS	⌚	
⊗	LIGHT FIXTURE - BUG-EYE EMERGENCY	⌚	
⊗	LIGHT FIXTURE - LED	⌚	
⊗	LIGHT FIXTURE - ON EMERGENCY CIRCUIT	⌚	
⊗	LIGHT FIXTURE - LED STRIP	⌚	
⊗	OCCUPANCY SENSOR	⌚	

FEEDER SCHEDULE	
TYPE	DESCRIPTION
201	(2) #12 CU THWN, (1) #12 CU GND IN 0.5°C.
203	(3) #12 CU THWN, (1) #12 CU GND IN 0.75°C.
301	(2) #10 CU THWN, (1) #10 CU GND IN 0.75°C.
303	(3) #10 CU THWN, (1) #10 CU GND IN 0.75°C.
NOTE: FEEDER SCHEDULE APPLIES TO ALL ELECTRICAL DRAWINGS AND SCHEDULES.	

DRAWING INDEX	
E0.1	SYMBOL AND ABBREVIATIONS
E0.2	PANEL SCHEDULES
E1.1	FLOOR PLAN - ELECTRICAL DEMO
E1.2	FLOOR PLAN - LIGHTING
E1.3	FLOOR PLAN - POWER
E1.4	SITE PLAN - ELECTRICAL

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Project No.: 382.099.001 Contact: HEIDI SPEER

REGISTERED PROFESSIONAL ENGINEER
88445PE
OREGON
NOV 12, 2019
RENEWAL DATE: 12/31/2020

ISSUED DATE
1 06/18/19
2 10/03/19
3 11/05/19
4 12/05/19

SCHEMATIC DESIGN DOCUMENTS
DESIGN DEVELOPMENT DOCUMENTS
100% CD SUBMITTAL
100% BID DOCUMENTS

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SYMBOL AND ABBREVIATIONS
E0.1
190037.01
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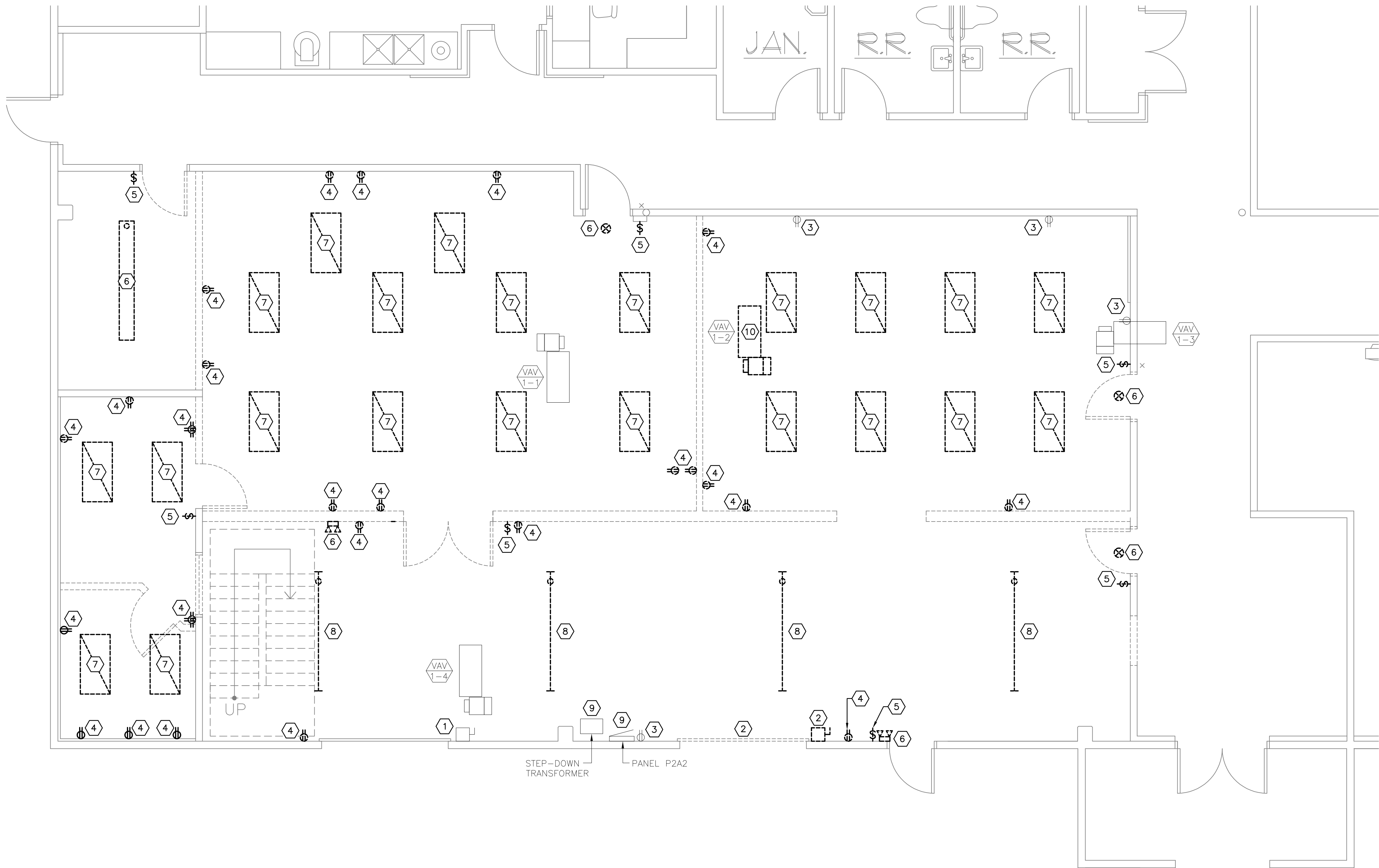
PANEL: SDP		BUS: 600 A			DATE: 12/03/19		VOLTAGE: 277 / 480 VOLTS, 3 PHASE, 4 WIRE				
FEEDER: SEE ONE-LINE DIAGRAM		MAIN BRKR: 600 A			MOUNTING: SURFACE						
CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMPS/POLE	LOAD TYPE	LOAD VA	PHASE	LOAD VA	LOAD TYPE	CKT BKR AMPS/POLE	CIRCUIT DESCRIPTION	CKT NO.	
1	VAV 1-7	20/3	H	2800	A	3300	H	20/1	VAV 3-1	2	
3	VAV 3-3	-	H	2600	B			20/1	SPARE	4	
5	VAV 1-8 & 1-6	-	H	2200	C	1600	L	20/1	LIGHTS - ROOM 170 & 183 (SEE NOTE 1.)	6	
7	VAV 1-1	20/3	H	3500	A	1600	L	20/1	LIGHTS - ROOM 169 & 171 (SEE NOTE 1.)	8	
9	VAV 1-2	-	H	2800	B	3800	H	20/1	VAV 1-5	10	
11	VAV 1-3	-	H	4300	C	1500	H	20/1	VAV 1-4	12	
13	VAV 3-2	40/1	H	8900	A	5600	H	30/3	VAV 3-4	14	
15	STEP DOWN TRANSFORMER	50/3	Z	8858	B	5500	H	-	VAV 3-7	16	
17	-	-	Z	8858	C	4900	H	-	VAV 3-6	18	
19	-	-	Z	8858	A	3700	H	20/1	VAV 3-5	20	
21	AC-1 (SEE NOTE 2.)	30/3	M	3100	B	4700	H	20/1	VAV 3-10	22	
23	-	-	M	3100	C	3700	H	20/1	VAV 3-9	24	
25	-	-	M	3100	A	4700	H	20/1	VAV 3-8	26	
27	DC-1 (SEE NOTE 2.)	20/3	M	2126	B	2657	H	15/3	MAU UNIT (NOTE 1)	28	
29	-	-	M	2126	C	2657	H	-	-	30	
31	-	-	M	2126	A	2657	H	-	-	32	
33	RECEPTACLE, DEDICATED - CTE YARD (SEE NOTE 2.)	30/1	R	2040	B	460	L	20/1	LIGHTS - CTE YARD, SHELTER (SEE NOTE 3.)	34	
35	RECEPTACLE, DEDICATED - CTE YARD (SEE NOTE 2.)	30/1	R	2040	C	4800	R	50/1	EXTERIOR SPIDERBOX - DEDICATED (SEE NOTE 3.)	36	
37	RECEPTACLE, DEDICATED - CTE YARD (SEE NOTE 2.)	30/1	R	2040	A				SPACE	38	
39	RECEPTACLE, DEDICATED - CTE YARD (SEE NOTE 2.)	30/1	R	2040	B				SPACE	40	
41	RECEPTACLE, DEDICATED - CTE YARD (SEE NOTE 2.)	30/1	R	2040	C				SPACE	42	
CONNECTED LOAD					NOTES.....						
LOAD PER PHASE (VA)					1. EXISTING LOADS ARE ASSUMED BASED ON BASIC DESIGN STANDARDS.						
A= 52,881 VA											
B= 40,681 VA					2. EXISTING SPARE WITH NEW LOAD.						
C= 43,821 VA											
LOAD PER PHASE (AMPS)					3. EXISTING SPACE WITH NEW BREAKER/LOAD.						
A= 190.9 A											
B= 146.9 A					4.						
C= 158.2 A											
TOTAL LOAD (KVA)					5.						
TOTAL LOAD AMPS											
137.4 KVA											
165.2 A											

PANEL: P2A2		BUS: 100 A			DATE: 12/03/19		VOLTAGE: 120 / 208 VOLTS, 3 PHASE, 4 WIRE				
FEEDER: SEE ONE-LINE DIAGRAM		MAIN BRKR: 100 A			MOUNTING: SURFACE						
CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMPS/POLE	LOAD TYPE	LOAD VA	PHASE	LOAD VA	LOAD TYPE	CKT BKR AMPS/POLE	CIRCUIT DESCRIPTION	CKT NO.	
1	RECEPTACLES - CTE LAB, PENDANTS (SEE NOTE 1.)	20/1	R	720	A	784	L	20/1	LIGHTS - TROFFERS, STRIP & EXIT SIGNS. (SEE NOTE 1.)	2	
3	RECEPTACLES - CTE LAB, PENDANTS (SEE NOTE 1.)	20/1	R	540	B	1366	L	20/1	LIGHTS - HIGH BAYS. (SEE NOTE 1.)	4	
5	RECEPTACLES - CTE LAB, NORTH & WEST (SEE NOTE 1.)	20/1	R	900	C	900	R	20/1	RECEPTACLES - RM 102, SOUTH END (SEE NOTE 2.)	6	
7	RECEPTACLES - CTE LAB, NORTH (SEE NOTE 1.)	20/1	R	900	A	900	R	20/1	RECEPTACLES - RM 102, EAST, PENDANTS (SEE NOTE 2.)	8	
9	RECEPTACLES - CTE LAB, EAST WALLS (SEE NOTE 1.)	20/1	R	900	B	900	R	20/1	RECEPTACLES - RM 102, ENTRY & WEST (SEE NOTE 2.)	10	
11	SPARE (SEE NOTE 1)	20/1			C			20/1	SPARE	12	
13	SPARE	20/1			A			20/1	SPARE	14	
15	SPARE	20/1			B			20/1	SPARE	16	
17	SPARE	20/1			C			20/1	SPARE	18	
19	RECEPTACLE - 208V	20/2	R	90	A			20/1	SPARE	20	
21	-	-	R	90	B			20/1	SPARE	22	
23	RECEPTACLE, DEDICATED - SPIDERBOX (SEE NOTE 2.)	50/1	R	4800	C				SPACE	24	
25	SPACE				A				SPACE	26	
27	SPACE				B				SPACE	28	
29	SPACE				C				SPACE	30	
31	SPACE				A				SPACE	32	
33	SPACE				B				SPACE	34	
35	SPACE				C				SPACE	36	
37	SPACE				A				SPACE	38	
39	SPACE				B				SPACE	40	
41	SPACE				C				SPACE	42	

CONNECTED LOAD				NOTES.....	
LOAD PER PHASE (VA)	A=	3,394	VA	1. NEW LOAD REPLACES EXISTING.	
	B=	3,816	VA	2. EXISTING SPARE WITH NEW LOAD.	
	C=	6,600	VA		
LOAD PER PHASE (AMPS)	A=	28.3	A	3.	
	B=	31.8	A	4.	
	C=	55.0	A		
	TOTAL LOAD (KVA)	13.8	KVA	5.	
	TOTAL LOAD AMPS	38.3	A		

PANEL: P4A		BUS: 225 A			DATE: 12/03/19		VOLTAGE: 120 / 208 VOLTS, 3 PHASE, 4 WIRE																																																																																																						
FEEDER: SEE ONE-LINE DIAGRAM		MAIN BRKR: 225 A			MOUNTING: SURFACE																																																																																																								
CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMPS/POLE	LOAD TYPE	LOAD VA	PHASE	LOAD VA	LOAD TYPE	CKT BKR AMPS/POLE	CIRCUIT DESCRIPTION	CKT NO.																																																																																																			
1	EF-11	20/3	M	528	A	900	R	20/1	RECEPTACLES - ON ROOF SEE NOTE 2)	2																																																																																																			
3	SCIENCE	-			B	900	R	20/1	RECEPTACLE (SEE NOTE 1)	4																																																																																																			
5	SCIENCE	-			C	900	R	20/1	RECEPTACLE (SEE NOTE 1)	6																																																																																																			
7	EF-6 & EF-7	20/3	M	1056	A	900	R	20/1	RECEPTACLE (SEE NOTE 1)	8																																																																																																			
9	EF-8 & EF-9	-	M	3336	B	900	R	20/1	RECEPTACLE (SEE NOTE 1)	10																																																																																																			
11	EF-10	-	M	528	C			20/1	SPARE	12																																																																																																			
13	EF-2	20/3	M	528	A			20/1	SPARE	14																																																																																																			
15	EF-5	-	M	528	B			20/1	SPARE	16																																																																																																			
17	EF-3 & EF-4	-	M	1056	C			20/1	SPARE	18																																																																																																			
19	SPARE	20/3			A			20/1	SPARE	20																																																																																																			
21	-	-			B			20/1	SPARE	22																																																																																																			
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25	SPARE	20/1			A			20/1	SPARE	26																																																																																																			
27	SPARE	30/1			B			30/3	SPARE	28																																																																																																			
29	NAC & FIRE HORN (SEE NOTE 2)	20/1	Z	900	C			-	-	30																																																																																																			
31	SPARE	50/2			A			-	-	32																																																																																																			
33	-	-			B			30/3	SPARE	34																																																																																																			
35	-	30/2			C			-	-	36																																																																																																			
37	SPARE	-			A			-	-	38																																																																																																			
39	DISHWASHER SEE NOTE 2)	20/2	K	1664	B			30/2	SPARE	40																																																																																																			
41	-	-	K	1664	C			-	-	42																																																																																																			
<table><tr><td colspan="5">CONNECTED LOAD</td><td colspan="6">.....NOTES.....</td></tr><tr><td colspan="2">LOAD PER PHASE (VA)</td><td>A=</td><td>3,912</td><td>VA</td><td colspan="6">1. EXISTING SPARE WITH NEW LOAD.</td></tr><tr><td colspan="2"></td><td>B=</td><td>7,328</td><td>VA</td><td colspan="6">2. EXISTING LOADS ARE ASSUMED BASED ON BASIC DESIGN STANDARDS.</td></tr><tr><td colspan="2"></td><td>C=</td><td>5,048</td><td>VA</td><td colspan="6"></td></tr><tr><td colspan="2">LOAD PER PHASE (AMPS)</td><td>A=</td><td>32.6</td><td>A</td><td colspan="6">3.</td></tr><tr><td colspan="2"></td><td>B=</td><td>61.1</td><td>A</td><td colspan="6">4.</td></tr><tr><td colspan="2"></td><td>C=</td><td>42.1</td><td>A</td><td colspan="6"></td></tr><tr><td colspan="2">TOTAL LOAD (KVA)</td><td></td><td>16.3</td><td>KVA</td><td colspan="6">5.</td></tr><tr><td colspan="2">TOTAL LOAD AMPS</td><td></td><td>45.2</td><td>A</td><td colspan="6"></td></tr></table>											CONNECTED LOAD					NOTES.....						LOAD PER PHASE (VA)		A=	3,912	VA	1. EXISTING SPARE WITH NEW LOAD.								B=	7,328	VA	2. EXISTING LOADS ARE ASSUMED BASED ON BASIC DESIGN STANDARDS.								C=	5,048	VA							LOAD PER PHASE (AMPS)		A=	32.6	A	3.								B=	61.1	A	4.								C=	42.1	A							TOTAL LOAD (KVA)			16.3	KVA	5.						TOTAL LOAD AMPS			45.2	A						
CONNECTED LOAD					NOTES.....																																																																																																								
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1 FLOOR PLAN - ELECTRICAL DEMOLITION
E1.1 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- VERIFY LOCATION OF EXISTING ELECTRICAL DEVICES ABOVE SUSPENDED CEILING.
- VERIFY WITH OWNER IF REMOVED DEVICES ARE TO BE RETURNED FOR RE-USE OR DISPOSED OF AT CONTRACTOR'S EXPENSE.
- CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK BEING PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF DUCTS, PIPING AND OTHER COMPONENTS TO BE CROSSED OR CONNECTED PRIOR TO BEGINNING NEW INSTALLATIONS. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO COST TO OWNER, IMMEDIATELY NOTIFY OWNER OF CONDITIONS IN CONFLICT WITH DETAILS/PLANS.
- SEE SHEET E0.1 FOR SYMBOL LEGEND.

NOTES THIS SHEET

- EXISTING ROLL-UP DOOR DISCONNECT TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- DEMO ROLL-UP DOOR. REMOVE ALL ASSOCIATED ELECTRICAL COMPONENTS BACK TO CIRCUIT BREAKER.
- EXISTING RECEPTACLE TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- DEMO EXISTING RECEPTACLE. REMOVE CONDUCTORS BACK TO CIRCUIT BREAKER, OR ABANDON IN PLACE. IF ABANDONED IN PLACE MAKE SURE CONDUCTORS ARE DISCONNECTED ON BOTH SIDES AND LABEL AS "ABANDONED".
- DEMO EXISTING LIGHT SWITCH. COIL CIRCUITING BACK TO NEAREST LUMINAIRE TO REMAIN.
- EXISTING SURFACE MOUNTED LUMINAIRE TO BE REMOVED. COIL CIRCUITING BACK TO NEAREST LUMINAIRE TO REMAIN. CIRCUITING TO BE REUSED, WHERE POSSIBLE, FOR REPLACEMENT LUMINAIRE. LUMINAIRE TO BE RETURNED TO OWNER FOR RESTOCK.
- EXISTING RECESSED LUMINAIRE TO BE REMOVED. COIL CIRCUITING BACK TO NEAREST LUMINAIRE TO REMAIN. CIRCUITING TO BE REUSED, WHERE POSSIBLE, FOR REPLACEMENT LUMINAIRE. LUMINAIRE TO BE RETURNED TO OWNER FOR RESTOCK.
- EXISTING PENDANT MOUNTED LUMINAIRE TO BE REMOVED. COIL CIRCUITING BACK TO NEAREST LUMINAIRE TO REMAIN. CIRCUITING TO BE REUSED, WHERE POSSIBLE, FOR REPLACEMENT LUMINAIRE. LUMINAIRE TO BE RETURNED TO OWNER FOR RESTOCK.
- EXISTING PANEL AND ASSOCIATED TRANSFORMER TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- VARIABLE AIR VOLUME UNIT TO BE REMOVED. REMOVE ALL ASSOCIATED ELECTRICAL COMPONENTS BACK TO CIRCUIT BREAKER IN PANEL SDP. LABEL BREAKER AS SPARE.

TENANT IMPROVEMENT FOR:

BEAVERTON SCHOOL DISTRICT:
MERLO STATION H.S. CTE PROGRAM
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FLOOR PLAN—
ELECTRICAL DEMO

E1.1

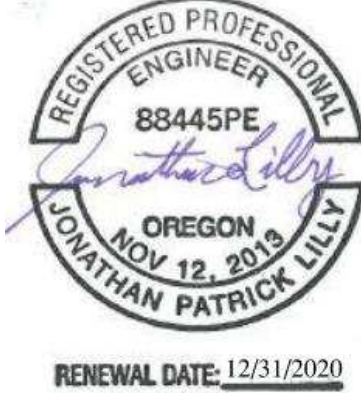
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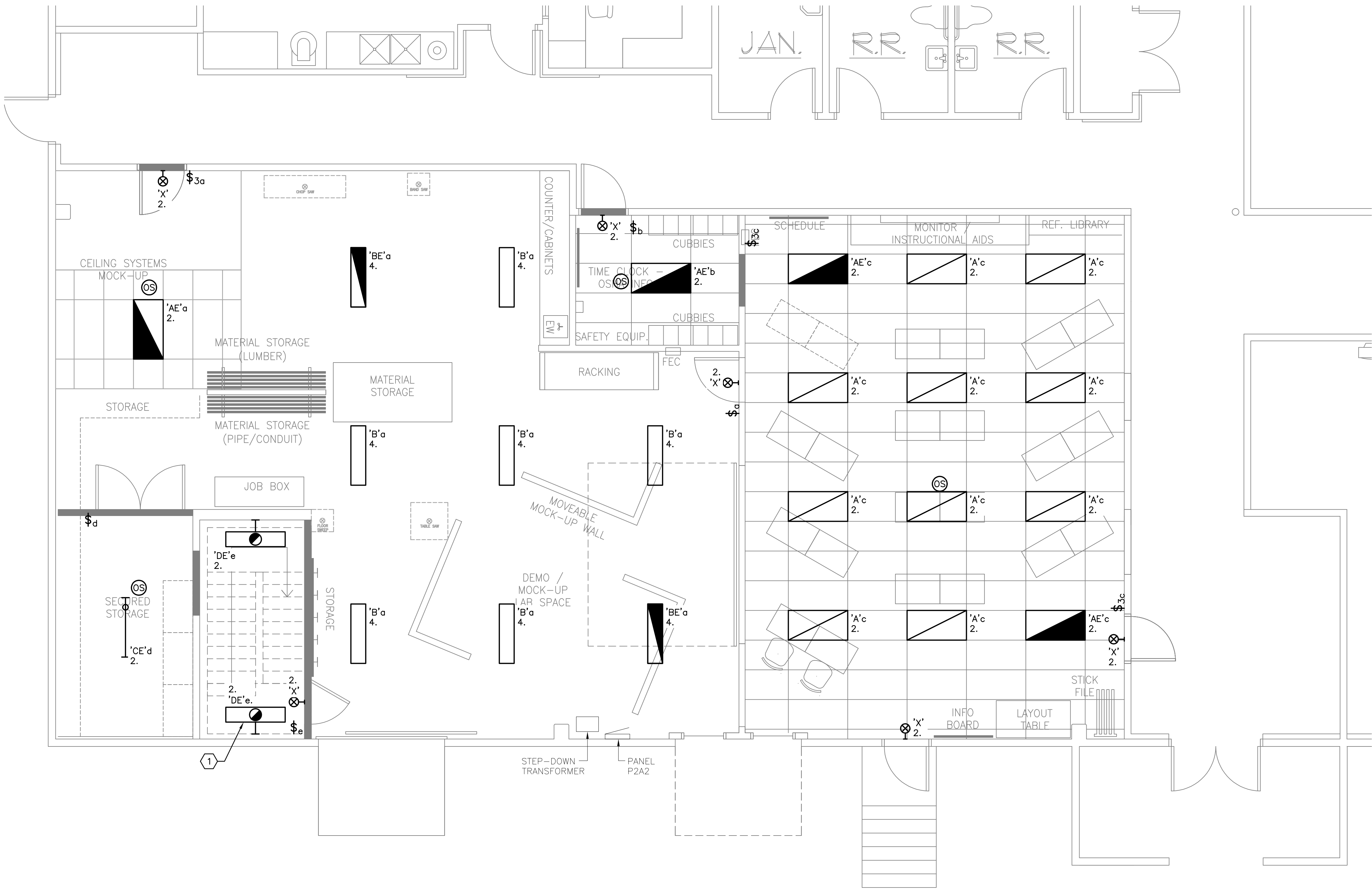


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2 10/03/19				
3 11/05/19				
4 12/05/19				



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1 FLOOR PLAN - LIGHTING
E1.2 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- A. SEE DRAWING E0.1 FOR LUMINAIRE SCHEDULE AND SYMBOL LEGEND.
- B. LOWER CASE LETTERS ADJACENT TO LUMINAIRES INDICATE SWITCHING DESIGNATIONS.
- C. SEE DRAWING E0.2 FOR PANEL SCHEDULES.
- D. ALL OCCUPANCY SENSOR SENSORS TO TURN OFF ALL LIGHTS WITHIN 30 MINUTES OF THE SPACE BEING UNOCCUPIED.
- E. LETTER 'E' AT THE END OF LUMINAIRE TYPE DESIGNATION INDICATES AN EGRESS LUMINAIRE. EMERGENCY EGRESS LUMINAIRE TO OPERATE DURING LOSS OF BUILDING POWER.
- F. ALL BRANCH CIRCUIT ADJACENT TO DEVICES ARE TO BE CONNECTED TO PANEL P2A2, UNLESS OTHERWISE NOTED.
- G. SEAL ALL WALL PENETRATIONS TO MAINTAIN EXISTING FIRE RATING AND WATERPROOFING. ALL REPAIR WORK NEEDS TO BE PAINTED TO MATCH SURROUNDING SURFACES.
- H. CONNECT OCCUPANCY SENSORS IN PARALLEL, UPSTREAM FROM WALL SWITCH. SEE GENERAL NOTE D.
- I. SEE LUMINAIRE SCHEDULE FOR MOUNTING HEIGHT PER LUMINAIRE TYPE.

NOTES THIS SHEET

- 1 INSTALL (1) LUMINAIRE AT EACH LANDING FOR A TOTAL OF (3) IN STAIRWELL.

PHOTOMETRIC VALUES		
CLASSIFICATION	DESIGN	TARGET**
SPACE TYPE	AVG*	AVG*
CLASSROOM	36	35
LAB	61	50
STORAGE	8	5
* IN FOOTCANDLES AT FINISHED FLOOR.		
** TARGET VALUES BASED OFF IESNA TABLES 22.2 & 24.2.		

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Project No.: 382.099.001 Contact: HEIDI SPEER

ISSUED DATE
1 06/18/19
2 10/03/19
3 11/05/19
4 12/05/19

SCHMATIC DESIGN DOCUMENTS
DESIGN DEVELOPMENT DOCUMENTS
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BEAVERTON SCHOOL DISTRICT:
MERLO STATION H.S. CTE PROGRAM
1841 SW MERLO DR. BEAVERTON, OREGON 97006

FLOOR PLAN -
LIGHTING

E1.2

190037.01

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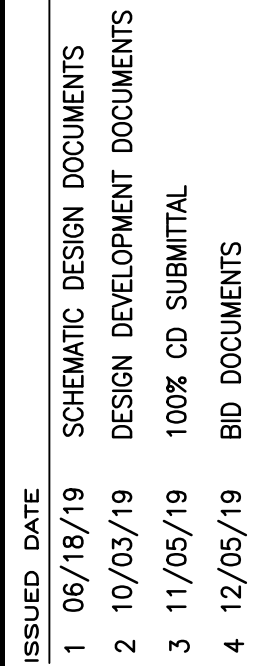
- B. VERIFY WITH OWNER IF REMOVED DEVICES ARE TO BE RETURNED FOR RE—USE OR DISPOSED OF AT CONTRACTOR'S EXPENSE.
- B. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK BEING PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF DUCTS, PIPING AND OTHER COMPONENTS TO BE CROSSED OR CONNECTED PRIOR TO BEGINNING NEW INSTALLATIONS. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO COST TO OWNER. IMMEDIATELY NOTIFY OWNER OF CONDITIONS IN CONFLICT WITH DETAILS/PLANS.
- D. SEE SHEET E0.1 FOR LUMINAIRE SCHEDULE, SYMBOL LEGEND AND ABBREVIATION LIST.
- D. TEXT TO THE LEFT OF CALL OUT SYMBOL DENOTES CIRCUITING. SEE PANEL SCHEDULE ON SHEET E0.2 FOR MORE INFORMATION.
- E. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT, PRIOR TO ROUGH-IN. CONNECT COMPLETE.
- F. SEE FEEDER SCHEDULE ON SHEET E0.1 FOR CONDUCTOR AND CONDUIT SIZING.
- F. HOMERUNS FOR ALL ADDITIONAL CIRCUITS SHALL BE RUN IN CONDUIT THROUGH AN ACCESSIBLE J—BOX IN THE NEW CONSTRUCTION AREA.
- H. ALL CONDUITS EXPOSED TO WEATHER, OR SUBJECT TO MECHANICAL INJURY, TO BE GALVANIZED RIGID STEEL UNLESS OTHERWISE NOTED.
- I. SEAL ALL WALL PENETRATIONS TO MAINTAIN EXISTING FIRE RATING AND WATERPROOFING. ALL REPAIR WORK NEEDS TO BE PAINTED TO MATCH SURROUNDING SURFACES.
- J. BIDDER DESIGN FIRE ALARM SYSTEM. FIRE ALARM DEVICES ARE SHOWN FOR COORDINATION, AND ARE FOR REFERENCE ONLY. FIRE ALARM DEVICE LAYOUTS AND DEVICES TO BE PROVIDED AND INSTALLED BY FIRE ALARM CONTRACTOR. PROVIDE COMPLETE VOLTAGE DROP CALCULATIONS, BATTERY CALCULATIONS AND SEQUENCE OF OPERATION WITH LAYOUT DRAWINGS AND EQUIPMENT SUBMITTAL.
- K. SHELTER LIGHTS CONTROLLED BY INTEGRAL MOTION SENSOR IN TYPE 'F2' LUMINAIRE.
- L. OCCUPANCY SENSOR TO TURN OFF ALL LIGHTS WITHIN 30 MINUTES OF THE SPACE BECOMING UNOCCUPIED.
- M. SEE LUMINAIRE SCHEDULE FOR MOUNTING HEIGHT.

- ① EXISTING ELECTRICAL CONDUIT. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- ② DEMO EXISTING POST MOUNTED JUNCTION BOX. REMOVE WIRES BACK TO SOURCE. CONDUIT TO BE RE-USED FOR NEW EQUIPMENT. SEE DETAIL 2/E1.4 FOR ADDITIONAL INFORMATION.
- ③ EXISTING POLE MOUNTED LUMINAIRE. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- ④ COORDINATE MOUNTING HEIGHT WITH OWNER.
- ⑤ PROVIDE 17"x30"x18" IN-GROUND JUNCTION BOX/VAULT. OVERSET EXISTING CONDUIT.
- ⑥ PROVIDE CEILING HUNG WP, GFCI, DEDICATED RECEPTACLE FOR SHOP EQUIPMENT.
- ⑦ NEW DUST COLLECTOR WITH #203 FEEDER. PROVIDE NEW ELECTRICAL CONNECTION PER MANUFACTURER'S RECOMMENDATION. SEE GENERAL NOTE F.
- ⑧ NEW AIR COMPRESSOR WITH #303 FEEDER. PROVIDE NEW ELECTRICAL CONNECTION PER MANUFACTURER'S RECOMMENDATION. SEE GENERAL NOTE F.
- ⑨ PROVIDE (2) 1.5" SCHEDULE 40 PVC WITH (2) #301 FEEDERS IN EACH CONDUIT, 36" BELOW GRADE, FOR NEW ELECTRICAL CONNECTIONS TO PANEL SDP. SEE DETAIL 3/E1.3 FOR PANEL LOCATION. SEE GENERAL NOTE F.
- ⑩ CONTRACTOR HAS THE OPTION TO RE-USE ABANDONED CONDUIT IN PLACE OF ONE OF THE CONDUITS LISTED IN KEYED NOTE 9. EXISTING CONDUIT CURRENTLY EXTENDS TO PANEL C. IF RE-USED CONTRACTOR WILL HAVE TO INTERCEPT AND RE-ROUTE TO PANEL SDP.
- ⑪ PROVIDE 50A CEILING HUNG WP, GFCI, DEDICATED RECEPTACLE FOR SPIDERBOX. SEE PLAN FOR CIRCUITING.

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SITE PLAN -
ELECTRICAL

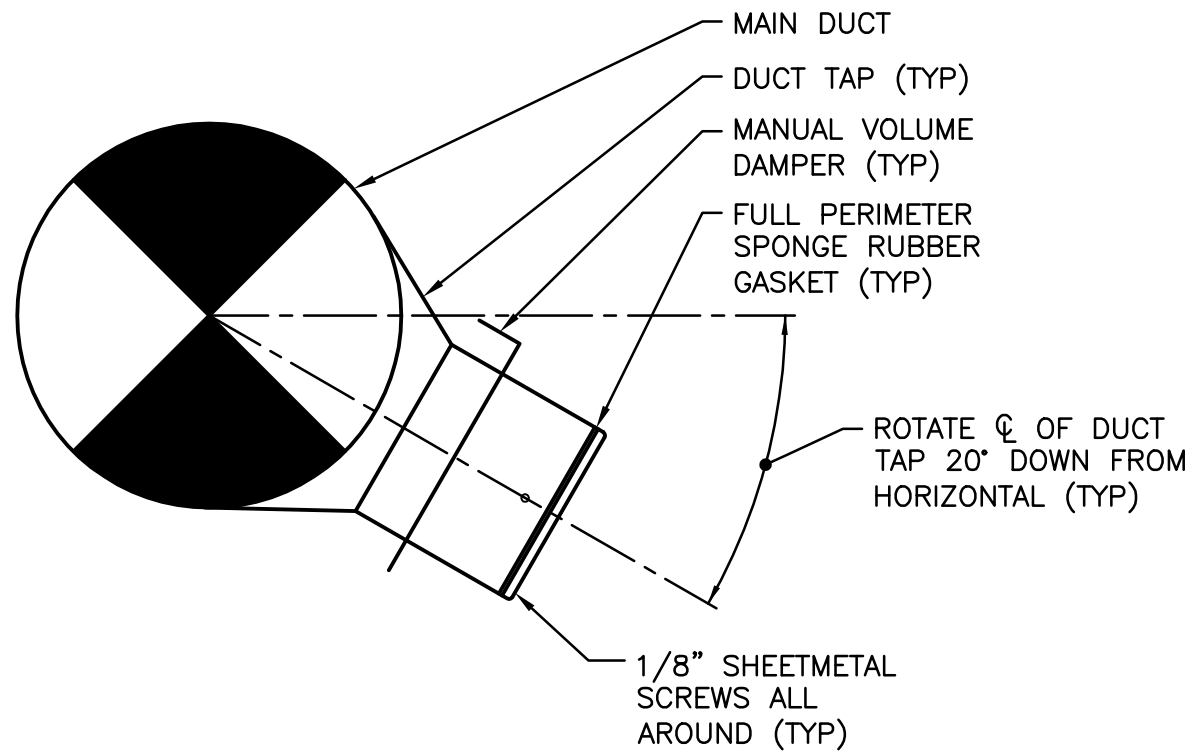
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DIFFUSER, REGISTER, AND GRILLE SCHEDULE				
TYPE	DESCRIPTION	MFR/MODEL	OBD	NOTES
A	SUPPLY GRILLE -- SIDEWALL	PRICE/510	YES	12x6
B	SUPPLY DIFFUSER SURFACE MOUNT	PRICE/SMD	YES	9x9 MODULE
C	RETURN GRILLE -- SIDEWALL	PRICE/510Z	YES	22x10
D	RETURN GRILLE SURFACE MOUNT	PRICE/PDDR	YES	24x24 MODULE
E	RETURN GRILLE SURFACE MOUNT	PRICE/PDDR	YES	12X12 MODULE

OUTSIDE AIR VENTILATION SCHEDULE											
2014 OSMC Table 403.3											
System	Application	Cond. Area (SF)	Default Occ. Density # per 1000 SF	Occ. Load	Actual No. of Occ. or No. of Fixtures	CFM per Occ. or Fixture	People or Fixture Outdoor Airflow (CFM)	Area Outdoor Airflow (CFM/SF)	Area Outdoor Airflow (CFM)	Req'd OSA (CFM)	
	Classroom	920	35	32	22	10	220	0.18	166	386	
	Vocational Class	1515	20	30	22	10	220	0.18	273	493	
	Secure Storage	140	0	0	0	7.5	0	0.12	17	17	
							TOTAL REQ'D OSA CFM				895
							TOTAL REQ'D OSA CFM IN BREATHING ZONE				1119
							TOTAL PROVIDED OSA CFM				1150



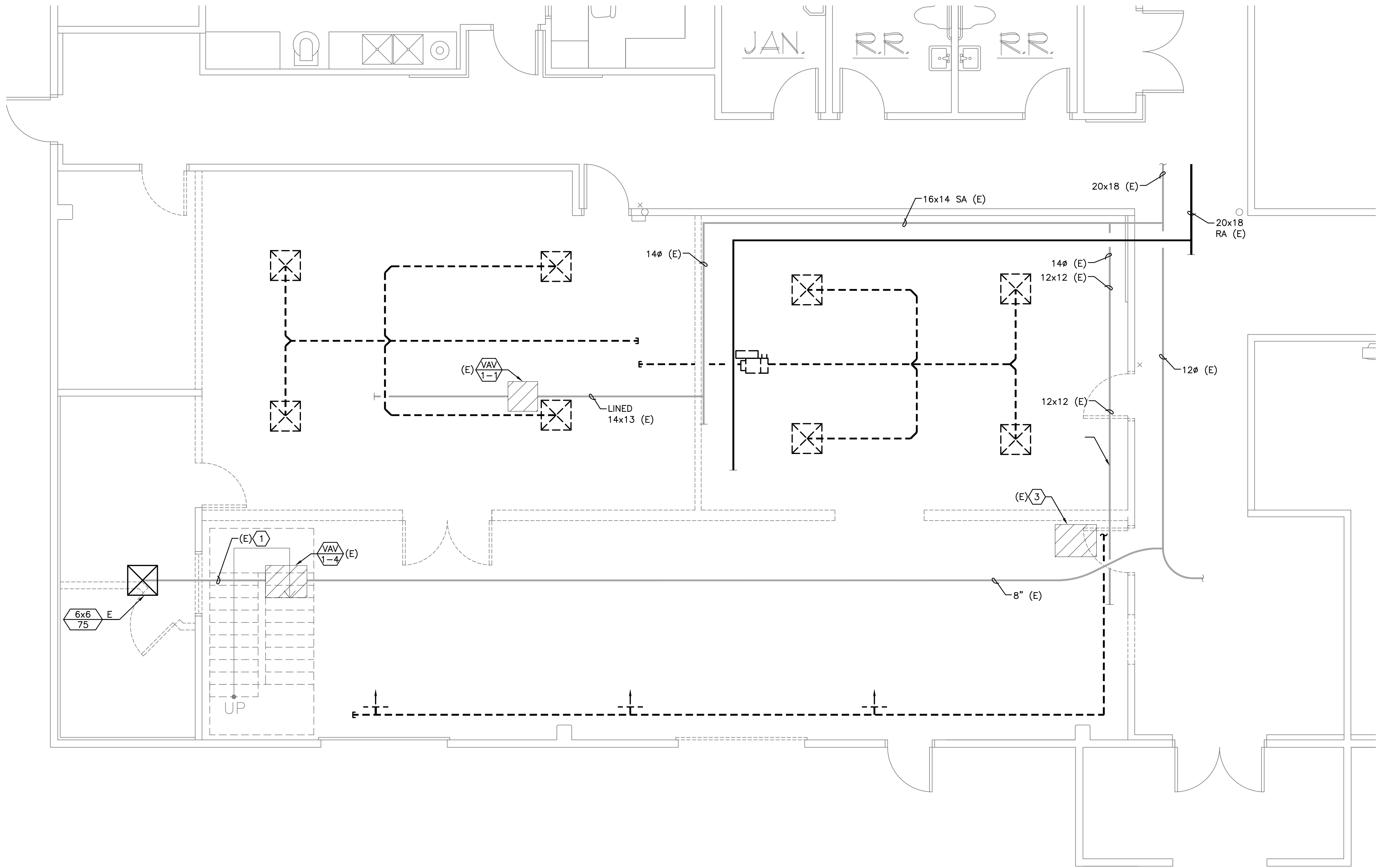
1 REGISTER MOUNTING DETAIL
MO.1 NOT TO SCALE

MECHANICAL LEGEND	
DUCTWORK FITTINGS (DOUBLE/SINGLE LINE) AND CONTROLS	ABBREVIATIONS
DOUBLE LINE DUCTWORK	AFF BDD BTU CFM (E) ESP EXH GPM HP MA MBH MFR (N) OSA PSI RA SA ABOVE FINISHED FLOOR BACKDRAFT DAMPER BRITISH THERMAL UNIT CUBIC FEET PER MINUTE EXISTING EXTERNAL STATIC PRESSURE EXHAUST AIR GALLONS PER MINUTE HORSEPOWER MAKE-UP AIR 1000 BTU PER HOUR MANUFACTURER NEW OUTSIDE AIR POUNDS PER SQUARE INCH RETURN AIR SUPPLY AIR
REFERENCE	
CONNECT TO EXISTING AT THIS POINT. VERIFY LOCATION, SIZE, AND CONDITION. SHEET NOTE	
EQUIPMENT MARK NUMBER SEE SCHEDULES	
REVISION	
DIFFUSER/REGISTER MARK NUMBER	
NECK SIZE	
SCHEDULED TYPE	
OPPOSED BLADE DAMPER	

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS CONTAINED IN THIS LEGEND WILL APPEAR ON DRAWINGS.

DUST COLLECTOR SCHEDULE	
MARK NUMBER	DC 1
SYSTEM	LAB SPACE
TYPE	DUST COLLECTOR
AIRFLOW (CFM)	1500
E.S.P. ("H2O)	2.0
FAN	
TYPE	K7
MOTOR (QTY-HP)	1-5
CONTROLLED BY	LAB EQUIPMENT
DUST COLLECTION	55 GALLON DRUM
ELECTRICAL (V-PH)	208-3
DESIGN WEIGHT (LBS)	910
MANUFACTURER/MODEL	DONALDSON TORIT/UMA 150
NOTES: 1. PROVIDE WITH 8" NO RETURN VALVE W/ LOCKING MECHANISM. 2. PROVIDE WITH CONTROL PANEL W/ STATUS LIGHTS	

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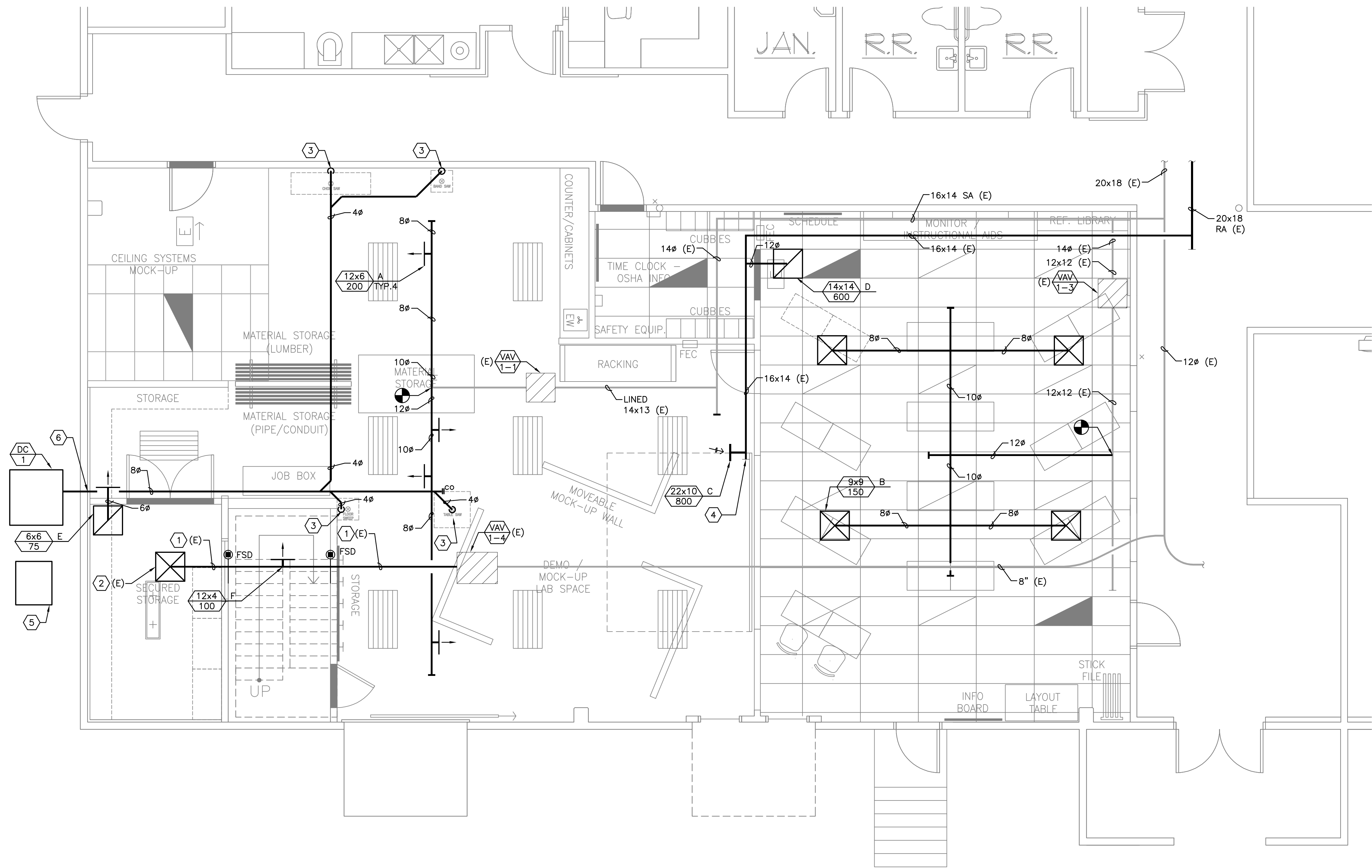


NOTES THIS SHEET

- EXISTING DUCTWORK TO REMAIN.
- EXISTING DIFFUSER TO REMAIN.
- EXISTING DAYTON UNIT HEATER, RELATED PIPING, AND BRACKETS TO BE REMOVED.

1 FLOOR PLAN - DEMOLITION
M1.1 SCALE: 1/4" = 1'-0"

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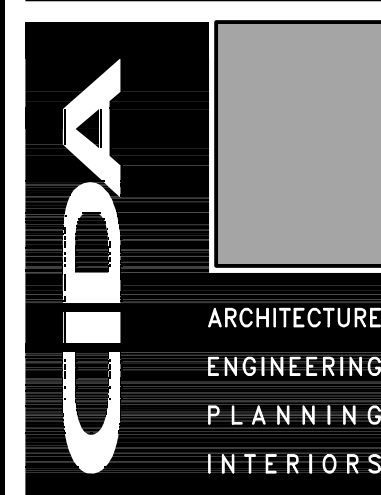
NOTES THIS SHEET

- EXISTING DUCTWORK TO REMAIN.
- EXISTING DIFFUSER TO REMAIN.
- TERMINATE DUCT AT 6" AFF. TERMINATE WITH BLAST GATE. FLEX DUCT CONNECTION TO EQUIPMENT.
- LOCATE DUCT ABOVE ROLL UP DOOR.
- COMPRESSED AIR FOR DUST COLLECTOR. SEE P1.2 FOR DETAILS.
- EXPLOSION VENT FOR DUST COLLECTOR. SEE SPECIFICATIONS FOR DETAILS.



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ISSUED DATE	1	06/18/19	2	10/03/19	3	11/05/19	4	12/05/19
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	1	06/18/19	2	10/03/19	3	11/05/19	4	12/05/19
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FLOOR PLAN -
MECHANICAL

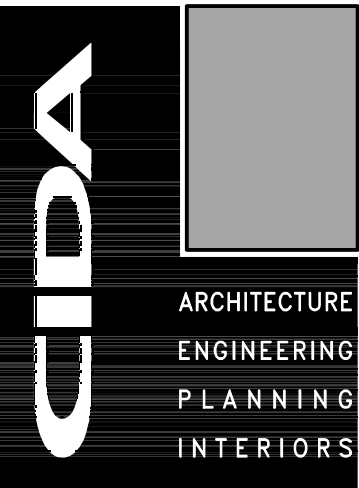
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SYMBOL AND ABBREVIATIONS

TO.1

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LOW VOLTAGE SYMBOL LIST

AFF	ABOVE FINISHED FLOOR		HORN AND STROBE
F	FLEX CONDUIT		MINI HORN AND STROBE
G	GROUND WIRE		STROBE UNIT ONLY
GFI	GROUND FAULT INTERRUPTER		SPEAKER AND STROBE
GND	GROUND		MANUAL PULL STATION
IG	ISOLATED GROUND		SMOKE DETECTOR, CEILING MOUNTED
UP	UNDERGROUND POWER		SMOKE DETECTOR – VISUAL AND AUDIBLE SIGNAL
UT	UNDERGROUND TELCO		CARBON MONOXIDE DETECTOR, LINE VOLTAGE WITH BATTERY BACKUP
WP	WEATHERPROOF		SPEAKER, WALL MOUNTED
	OUTLET – TELEPHONE, MOUNT 18" AFF UON AND PROVIDE 3/4"C. TO CEILING OR TRUSS SPACE, UON		INTERCOM OUTLET
	OUTLET – DATA, MOUNT 18" AFF UON AND PROVIDE 3/4"C. TO CEILING OR TRUSS SPACE, UON		MOTION DETECTOR
	OUTLET – COMBINATION TELEPHONE/DATA, MOUNT 18" AFF UON AND PROVIDE 3/4"C. TO CEILING OR TRUSS SPACE, UON		SECURITY DOOR CONTACTS
	OUTLET IN CEILING		WIRELESS NETWORK ACCESS POINT, CEILING OR WALL MOUNTED
	THERMOSTAT		

DRAWING INDEX

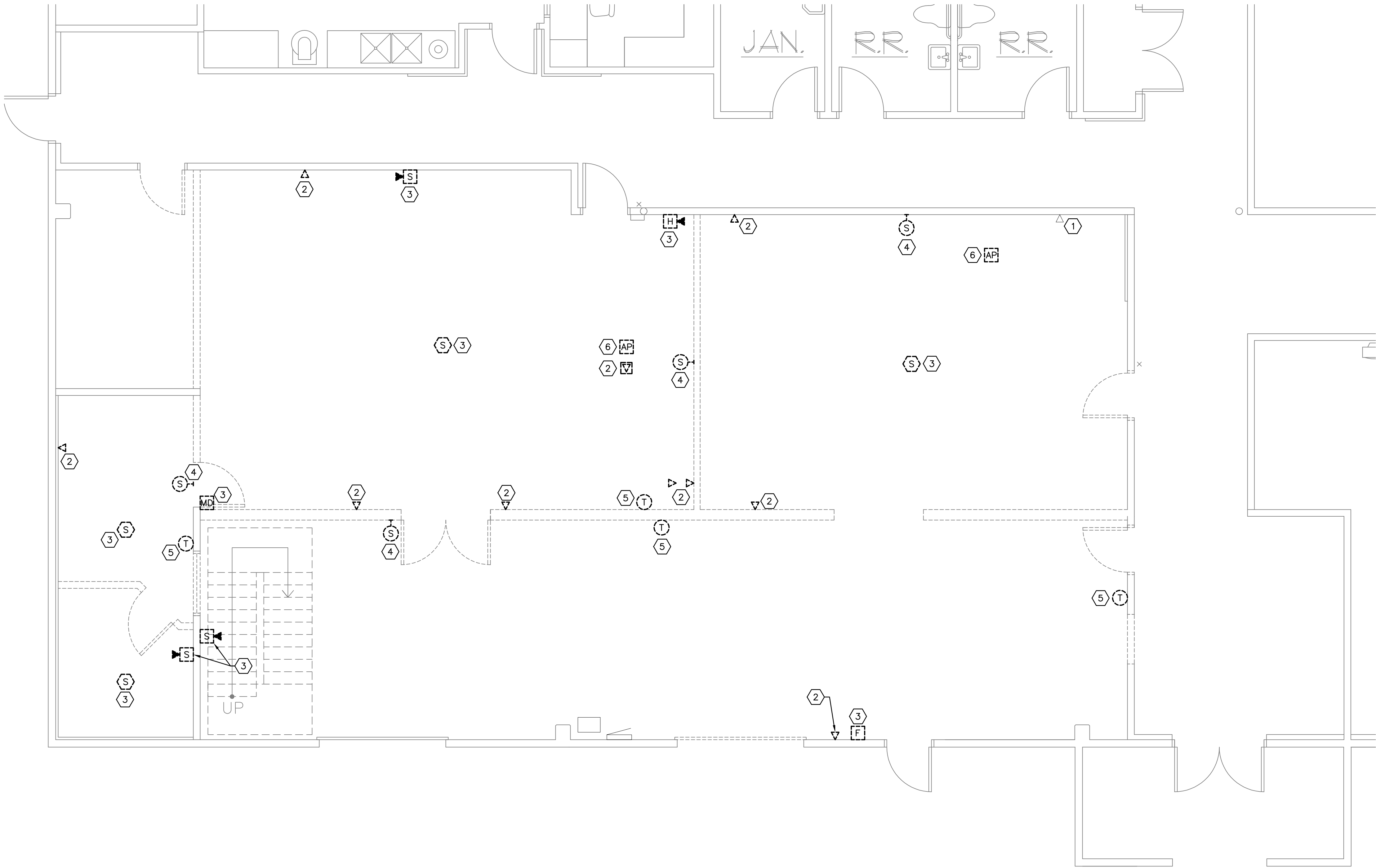
TO.1	SYMBOL AND ABBREVIATIONS
T1.1	FLOOR PLAN – DEMOLITION
T1.2	FLOOR PLAN – LOW VOLTAGE

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1 FLOOR PLAN - DEMOLITION
T1.1 SCALE: 1/4" = 1'-0"

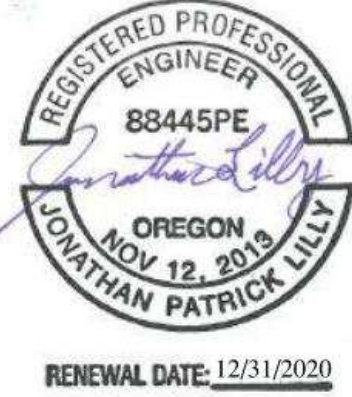


GENERAL NOTES

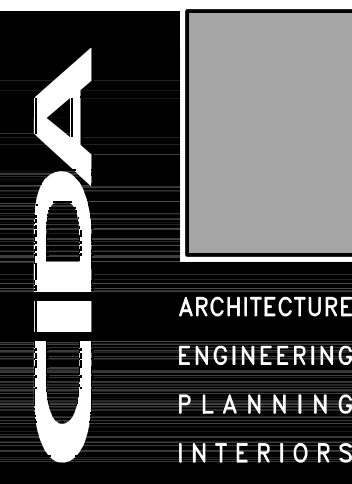
- VERIFY LOCATION OF EXISTING LOW VOLTAGE DEVICES ABOVE SUSPENDED CEILING.
- VERIFY WITH OWNER IF REMOVED DEVICES ARE TO BE RETURNED FOR RE-USE OR DISPOSED OF AT CONTRACTOR'S EXPENSE.
- CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK BEING PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF DUCTS, PIPING AND OTHER COMPONENTS TO BE CROSSED OR CONNECTED PRIOR TO BEGINNING NEW INSTALLATIONS. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO COST TO OWNER, IMMEDIATELY NOTIFY OWNER OF CONDITIONS IN CONFLICT WITH DETAILS/PLANS.
- PATCH ALL ROOF PENETRATIONS. PATCH TO BE WATERTIGHT AND ABLE TO MAINTAIN THE RATING OF THE AREA PENETRATED.
- SEE SHEET T0.1 FOR SYMBOL LEGEND.

NOTES THIS SHEET

- EXISTING DATA OUTLET TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- DEMO EXISTING DATA OUTLET. REMOVE LOW VOLTAGE WIRES BACK TO SOURCE, OR ABANDON IN PLACE. IF ABANDONED IN PLACE MAKE SURE CONDUCTORS ARE DISCONNECTED ON BOTH SIDES AND LABEL AS "ABANDONED".
- REMOVE EXISTING SECURITY & LIFE SAFETY EQUIPMENT (SMOKE DETECTOR, MOTION SENSORS, STROBES, HORNS, ETC.). KEEP FOR REINSTALL, ANY EXCESS ITEMS TO BE RETURNED TO OWNER FOR RESTOCK.
- REMOVE EXISTING PA SPEAKERS, RETURN TO OWNER FOR RESTOCK.
- THERMOSTAT TO BE REMOVED. REMOVE ALL ASSOCIATED LOW VOLTAGE COMPONENTS.
- EXISTING CEILING MOUNTED WIRELESS NETWORK ACCESS POINT TO BE REMOVED, TYPICAL 2, SAVE FOR RE-INSTALLATION. COIL WIRING AND PROTECT FROM DAMAGE DURING CONSTRUCTION. WIRING TO BE REUSED, WHERE POSSIBLE, FOR DEVICES NEW LOCATION.



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FLOOR PLAN -
DEMOLITION

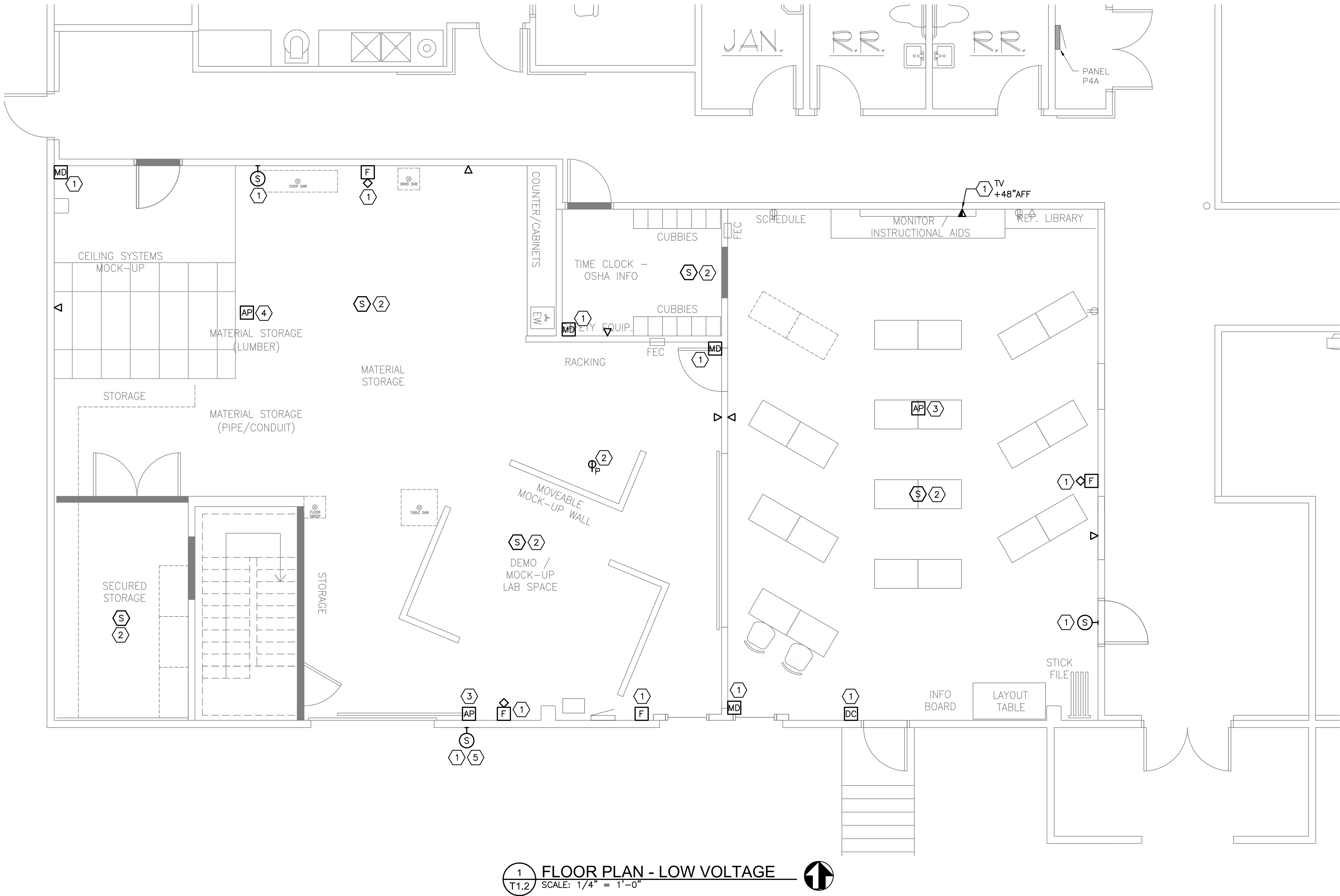
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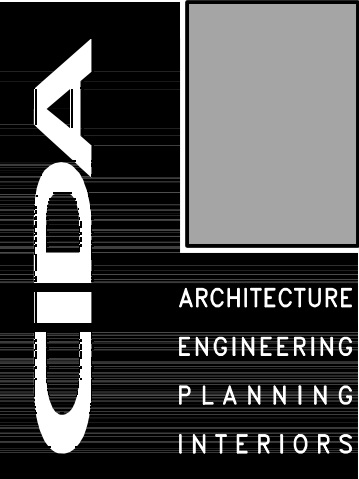


GENERAL NOTES

- SEE SHEET T0.1 FOR SYMBOL AND ABBREVIATION LIST.
- ALL CONDUITS EXPOSED TO WEATHER, OR SUBJECT TO MECHANICAL INJURY, TO BE GALVANIZED RIGID STEEL UNLESS OTHERWISE NOTED.
- SEAL ALL WALL PENETRATIONS TO MAINTAIN EXISTING FIRE RATING AND WATERPROOFING. ALL REPAIR WORK NEEDS TO BE PAINTED TO MATCH SURROUNDING SURFACES.
- BIDDER DESIGN FIRE ALARM SYSTEM. FIRE ALARM DEVICES ARE SHOWN FOR COORDINATION, AND ARE FOR REFERENCE ONLY. FIRE ALARM DEVICE LAYOUTS AND DEVICES TO BE PROVIDED AND INSTALLED BY FIRE ALARM CONTRACTOR. PROVIDE COMPLETE VOLTAGE DROP CALCULATIONS, BATTERY CALCULATIONS AND SEQUENCE OF OPERATION WITH LAYOUT DRAWINGS AND EQUIPMENT SUBMITTAL.

NOTES THIS SHEET

- COORDINATE MOUNTING HEIGHT WITH OWNER.
- CEILING MOUNTED, COORDINATE FINAL LOCATION WITH OTHER DISCIPLINES AND OWNER.
- CEILING MOUNTED WIRELESS NETWORK ACCESS POINT. RE-INSTALL EXISTING DEVICE AND CONNECT COMPLETE. INSTALL AT A HEIGHT BETWEEN 8'-0" TO 12'-0" AFF. DO NOT INSTALL ABOVE OBSTRUCTIONS. TYPICAL 2.
- CEILING MOUNTED WIRELESS NETWORK ACCESS POINT. INSTALL NEW DEVICE AND CONNECT COMPLETE. INSTALL AT A HEIGHT BETWEEN 8'-0" TO 12'-0" AFF. DO NOT INSTALL ABOVE OBSTRUCTIONS. TYPICAL 1.
- CONNECT TO CURRENT ANALOG PAGING SYSTEM THAT MAINTENANCE MANAGES.



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FLOOR PLAN -
LOW VOLTAGE

T1.2

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