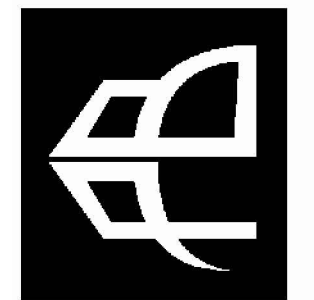


AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT: FERN RIDGE SCHOOL DISTRICT

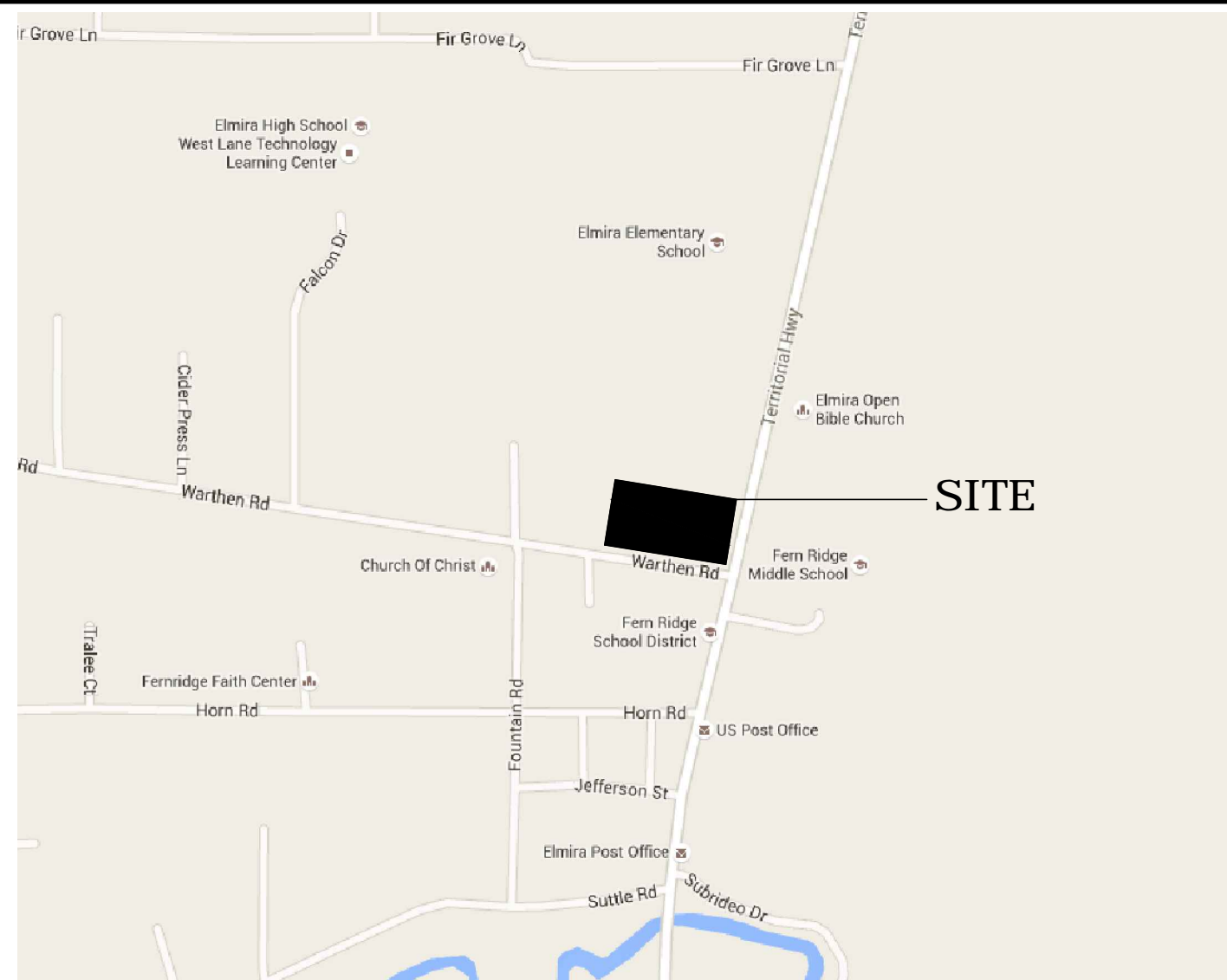
88834 TERRITORIAL HWY.

ELMIRA, OREGON



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VICINITY MAP

DRAWING INDEX

TS-1.0 TITLE SHEET, VICINITY MAP, DRAWING INDEX, EVACUATION MAP ARCHITECTURAL DRAWINGS

- SP-1 EXISTING SITE SURVEY (BY OTHERS, PROVIDE FOR INFORMATION ONLY)
- SP-2 PROPOSED SITE IMPROVEMENTS
- A-0.0 PROPOSED EGRESS PLAN
- A-1.0 EXISTING/DEMO PLAN
- A-1.1 EXISTING/DEMO ELEVATIONS
- A-1.2 EXISTING/DEMO ELEVATIONS
- A-1.3 EXISTING/DEMO ROOF PLAN
- A-2.0 PROPOSED FLOOR PLAN
- A-2.1 PROPOSED EXTERIOR ELEVATIONS
- A-2.2 PROPOSED EXTERIOR ELEVATIONS
- A-2.3 PROPOSED ROOF PLAN & DETAILS
- A-3.0 WINDOW/DOOR SCHEDULES/DETAILS
- A-3.1 LARGE SCALE CONCRETE RAMP DETAILS & STAIRS

CIVIL DRAWINGS

- C-1.0 CIVIL NOTES
- C-2.0 UTILITY PLAN
- C-3.0 SITE LAYOUT & GRADING
- C-4.0 CIVIL DETAILS

MECHANICAL DRAWINGS

- M-2.1 BASEMENT HVAC DEMO & NEW PLANS
- M-2.2 FIRST FLOOR HVAC DEMO & NEW PLANS
- M-2.3 ATTIC HVAC DEMO & NEW PLANS
- M-6.1 HVAC DETAILS AND SCHEDULES
- M-6.2 HVAC DETAILS

ELECTRICAL DRAWINGS

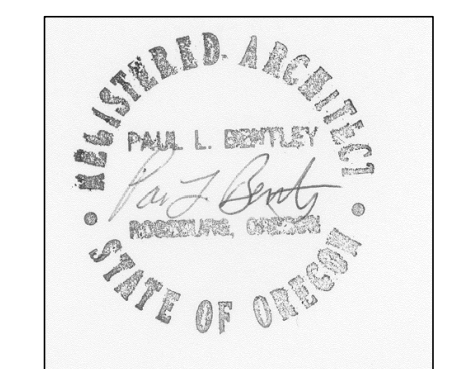
- E-2.1 BASEMENT ELECTRICAL DEMO & NEW PLANS
- E-2.2 FIRST FLOOR ELECTRICAL DEMO & NEW PLANS
- E-2.3 ATTIC ELECTRICAL DEMO & NEW PLANS
- E-6.1 ELECTRICAL DETAILS AND SCHEDULES

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. (REFER ALL SCALE ISSUES TO ARCHITECT PRIOR TO BIDDING.
2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH STATE AND LOCAL CODES. CONTRACTOR SHALL BE RESPONSIBLE TO BID COMPLIANT SYSTEMS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING ANY WORK.
4. VERIFY GRADES, LINES, LOCATION AND DIMENSIONS AS INDICATED AND ERECT WORK SQUARE, PLUMB, TRUE-TO-LINE AND GRADE, IN THE EXACT PLANE AND TO THE ELEVATION INDICATED.
5. SEE EGRESS PLANS FOR CODE DATA.
6. PROJECT IS AN EXTERIOR REMODEL/UPGRADE INCLUDING DEMO & REPLACEMENT OF WINDOWS, SIDING, SHINGLE ROOFING, DECK/STAIRS/RAMPS & COVERS. INTERIOR WORK IS LIMITED TO PATCHING AS REQ. @ WINDOWS & DOORS TO BE REMOVED; HVAC & ELECTRICAL UPGRADES.

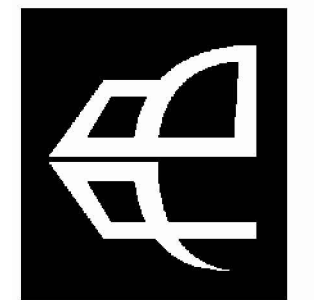
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TITLE:	TITLE SHEET
SCALE:	N.T.S.

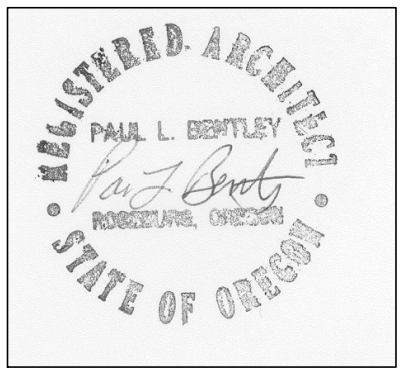
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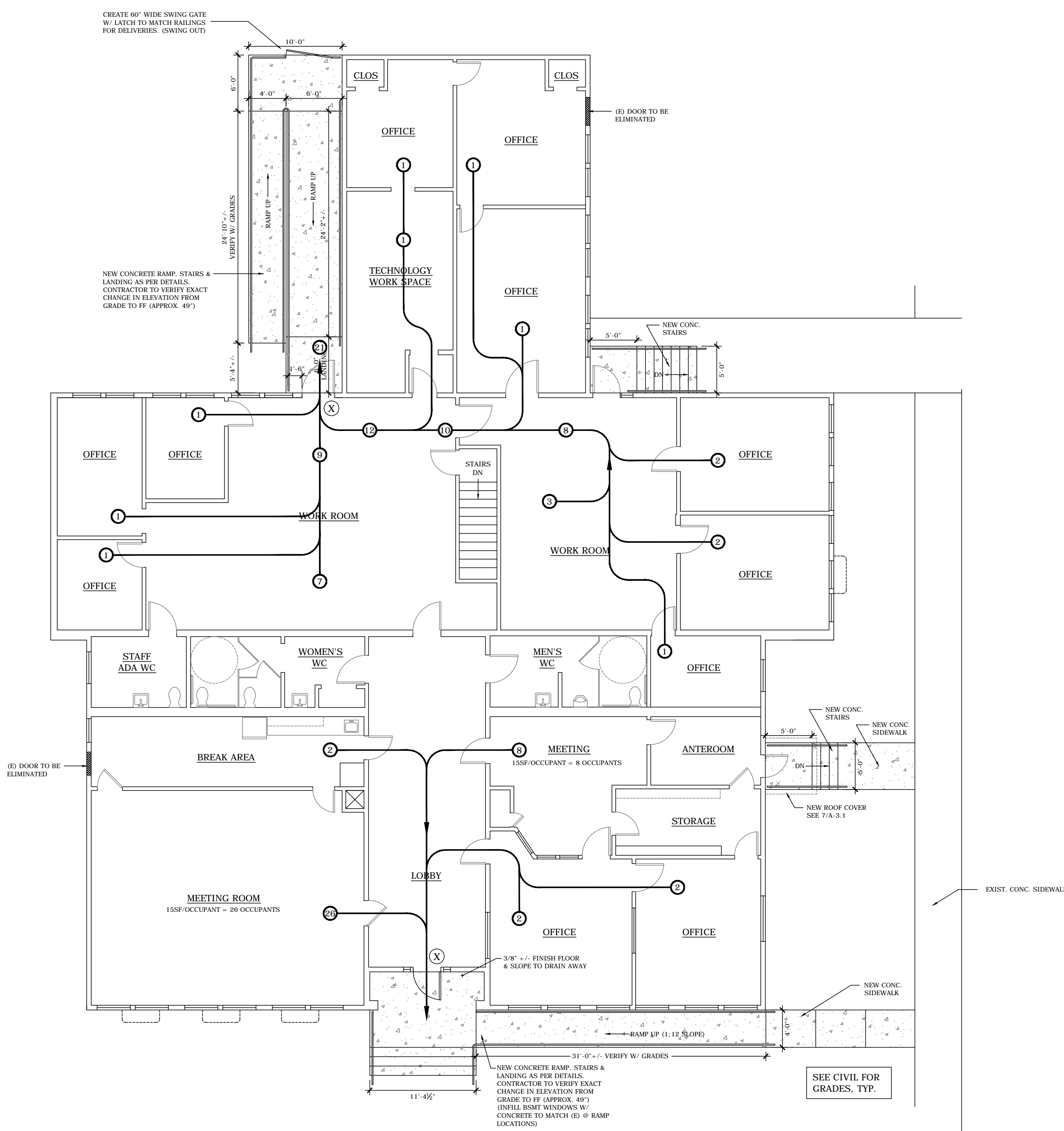
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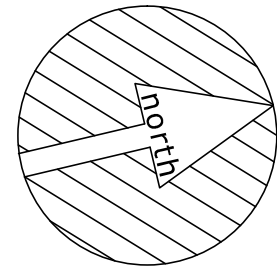


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 CHECKED BY: PLB
 DATE: 7-5-16
 TITLE: PROPOSED EGRESS PLAN
 SCALE: 1/8" = 1'-0"

SHEET NO:
A-0.0
 OF 22



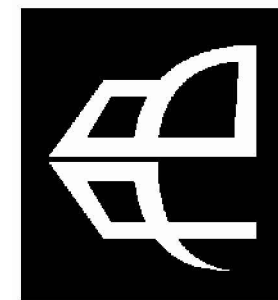
1 PROPOSED EGRESS PLAN
 ALL DIMENSIONS +/- FIELD VERIFY 1/8" = 1'-0"



CODE INFORMATION	
CODE: 2003 IBC/2004 OSSC	
OCCUPANCY:	B (NO CHANGE)
CONSTRUCTION TYPE:	V-B (NO CHANGE) NON-SPRINKLED
ALLOWABLE SF	9,000 S.F.
ACTUAL SF	6,000 S.F. (NO CHANGE)
MAXIMUM OCCUPANCY:	59 PERSONS (NO CHANGE)
PLUMBING FIXTURES REQ.	2
PLUMBING FIXTURES PROVIDED	5 (NO CHANGE)
TOTAL EXITS PROVIDED	2
TOTAL EXITS REQUIRED	2 (REDUCING NO. OF EXIT DOORS BY 1 & IMPROVING ADA ACCESS/EXITING)
MAX EXIT DISTANCE	200 FT
ACTUAL EXIT DISTANCE	60 FT

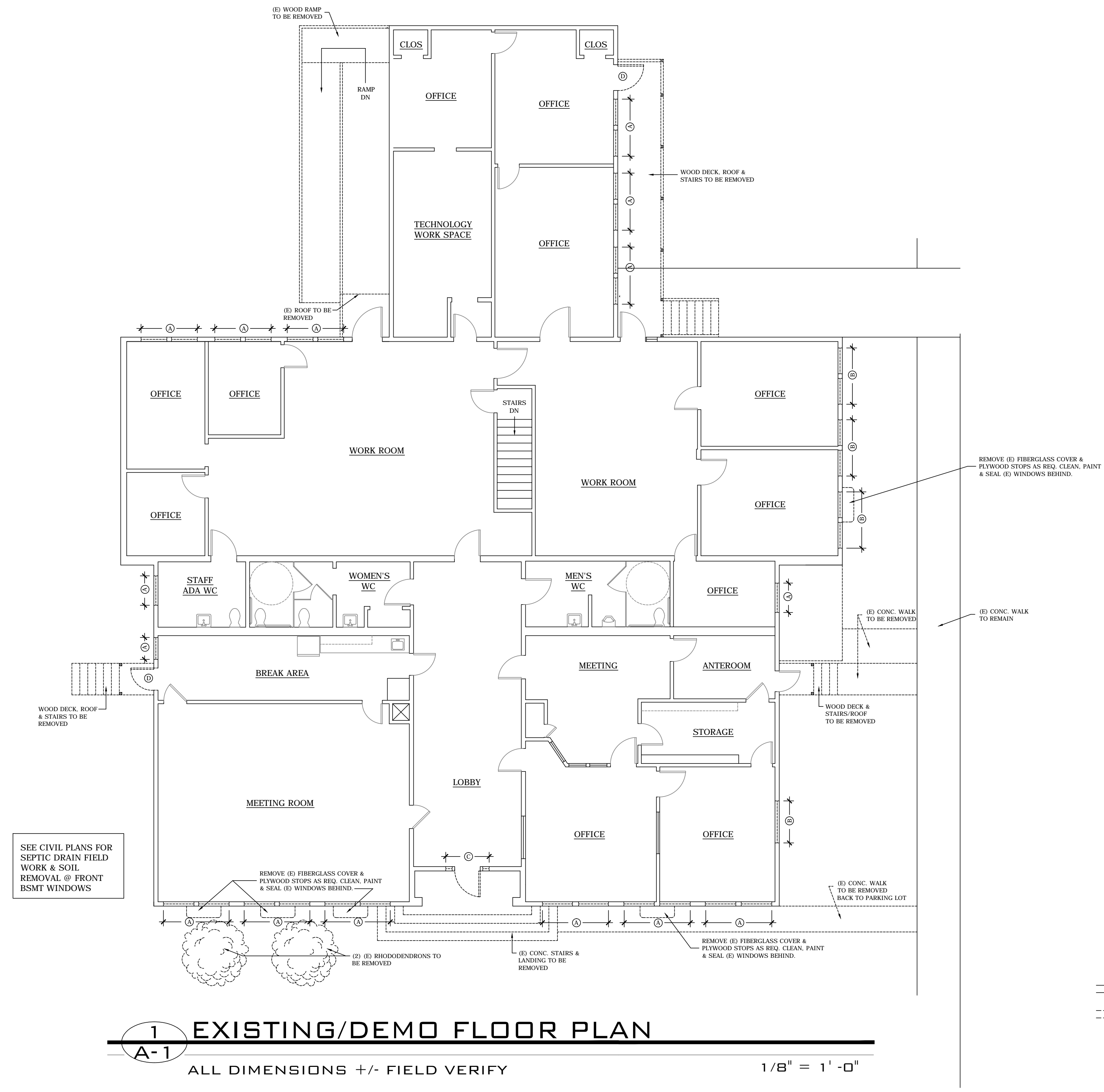
LEGEND	
	DIRECTION OF EGRESS
	MAXIMUM OCCUPANCY
	EXIT LIGHTS
	F.E. FIRE EXTINGUISHER PROVIDED & INSTALLED B.O.

NEW RAMPS & DOOR W/ LEVER HARDWARE = BARRIER _____



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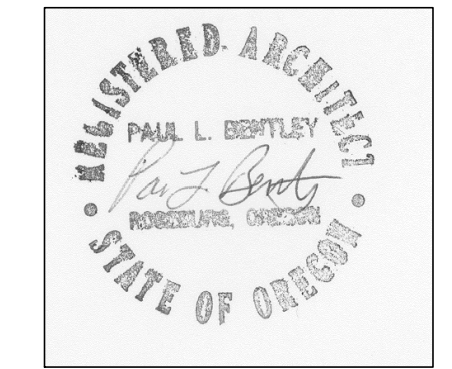
SEE CIVIL PLANS FOR SEPTIC DRAIN FIELD WORK & SOIL REMOVAL @ FRONT BSMT WINDOWS

1 **EXISTING/DEMO FLOOR PLAN**
A-1
 ALL DIMENSIONS +/- FIELD VERIFY 1/8" = 1'-0"

LEGEND

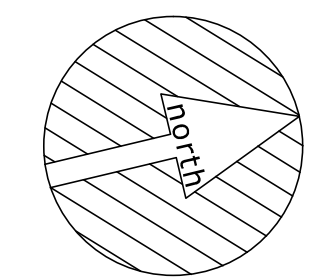
- (E) WALLS TO REMAIN
 - - - - (E) TO BE REMOVED
 - (A) (E) VINYL WINDOWS TO BE REMOVED & REPLACED AS SPECIFIED
 - (B) (E) ALUM. WINDOW TO BE REMOVED & REPLACED AS SPECIFIED
 - (C) (E) DOOR, FRAME & SIDELITES TO BE REMOVED & REPLACED AS S
 - (D) (E) DOOR & FRAME TO BE REMOVED & INFILLED TO MATCH (E)
- ALL EXTERIOR VINYL SIDING & TRIM (INCLUDING MTL. TRIM) TO BE RE
 - ALL ORIGINAL WOOD SIDING/TRIM BELOW VINYL SIDING TO BE REMO'D
 DOWN TO ORIGINAL DIAG. SHEATHING
 - ALL SHINGLE ROOFING, FLASHINGS & GUTTERS & DS TO BE REMOVED.

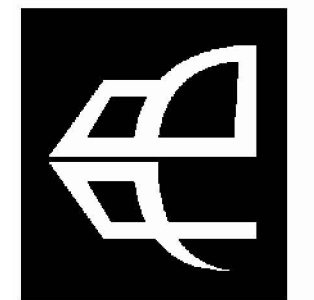
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 88834 TERRITORIAL HWY. ELMIRA, OREGON



DRAWN BY: CMHII
 CHECKED BY: PLB
 DATE: 7-5-16
 TITLE: FLOOR PLAN
 SCALE: 1/8" = 1'-0"

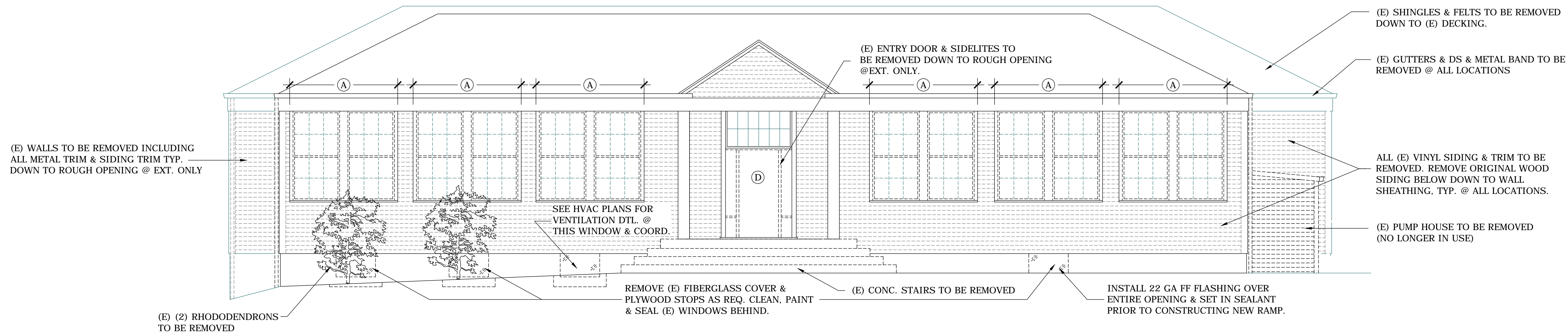
SHEET NO:
A-1.0
 OF 22





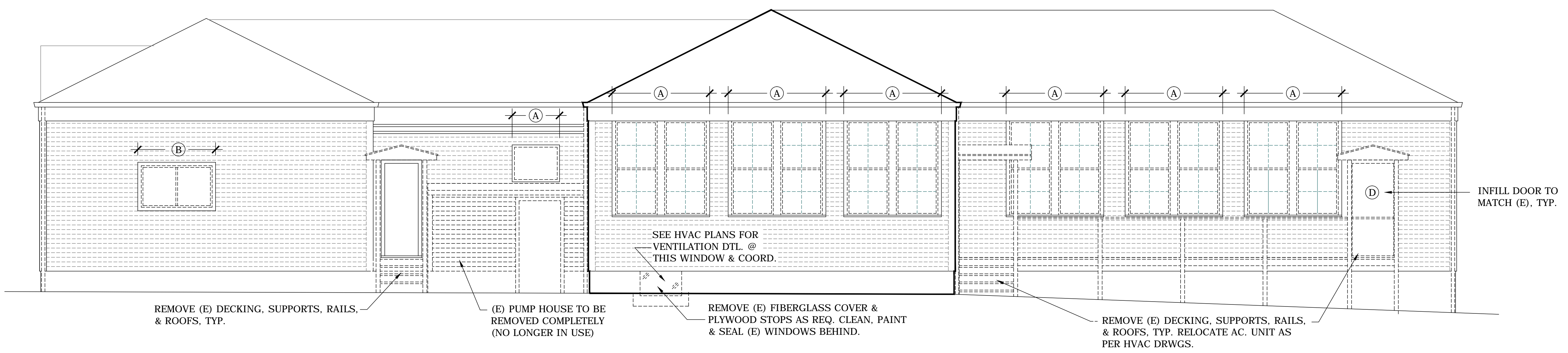
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1 EXISTING EAST ELEVATION

A-1.1 ALL DIMENSIONS +/- FIELD VERIFY 1/4" = 1'-0"



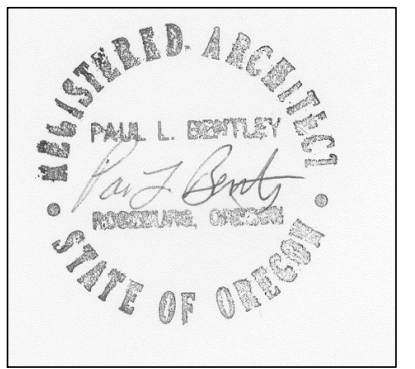
2 EXISTING NORTH ELEVATION

A-1.1 ALL DIMENSIONS +/- FIELD VERIFY SEE 1/A-1.1 FOR TYP. NOTES 1/4" = 1'-0"

- LEGEND**
- (E) WALLS TO REMAIN
 - - - (E) TO BE REMOVED
 - (A) (E) VINYL WINDOWS TO BE REMOVED & REPLACED AS SPECIFIED
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 - (C) (E) DOOR, FRAME & SIDELITES TO BE REMOVED & REPLACED AS SPECIFIED
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 - ALL SHINGLE ROOFING, FLASHINGS & GUTTERS & DS TO BE REMOVED.

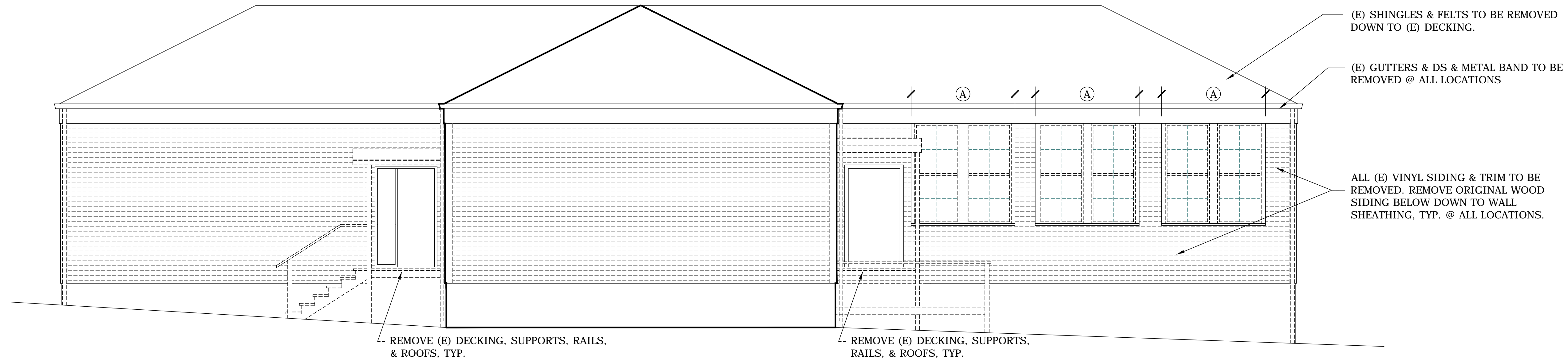
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 88834 TERRITORIAL HWY. ELMIRA, OREGON



DRAWN BY:	CMHII
CHECKED BY:	PLB
DATE:	7-5-16
TITLE:	EXISTING ELEVATIONS
SCALE:	1/4" = 1'-0"

SHEET NO:	A-1.1
	OF 22

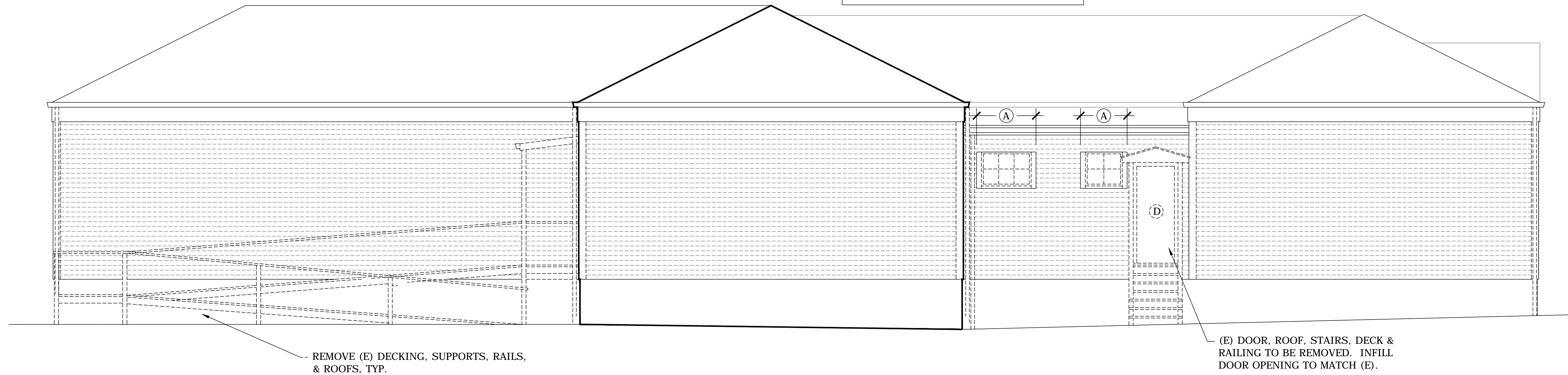
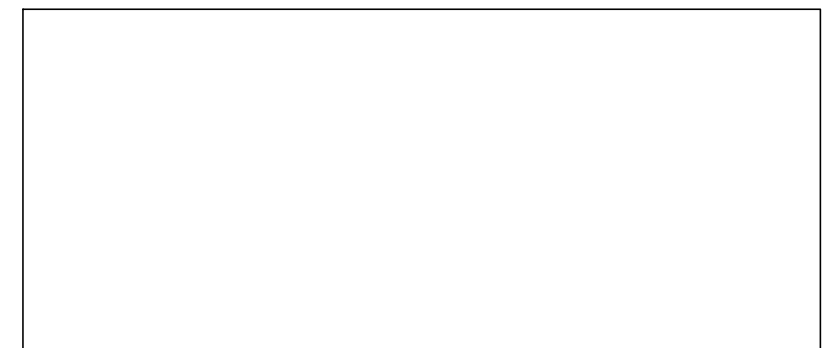


1 EXISTING WEST ELEVATION

A-1.2

ALL DIMENSIONS +/- FIELD VERIFY

1/4" = 1' - 0"



2 EXISTING SOUTH ELEVATION

A-1.2

ALL DIMENSIONS +/- FIELD VERIFY

1/4" = 1' - 0"

LEGEND

- (E) WALLS TO REMAIN
 - - - - (E) TO BE REMOVED
 - (A) (E) VINYL WINDOWS TO BE REMOVED & REPLACED AS SPECIFIED
 - (B) (E) ALUM. WINDOW TO BE REMOVED & REPLACED AS SPECIFIED
 - (C) (E) DOOR, FRAME & SIDELITES TO BE REMOVED & REPLACED AS SPECIFIED
 - (D) (E) DOOR & FRAME TO BE REMOVED & INFILLED TO MATCH (E)
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 - ALL SHINGLE ROOFING, FLASHINGS & GUTTERS & DS TO BE REMOVED.



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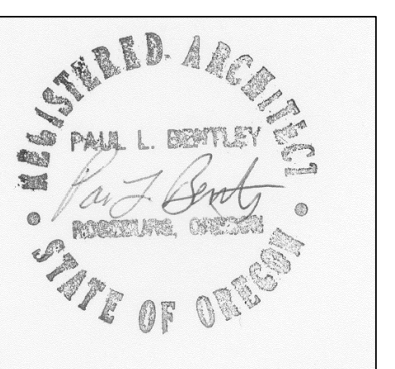
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FERN RIDGE SCHOOL DISTRICT

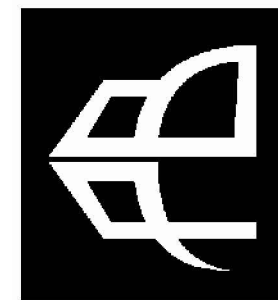
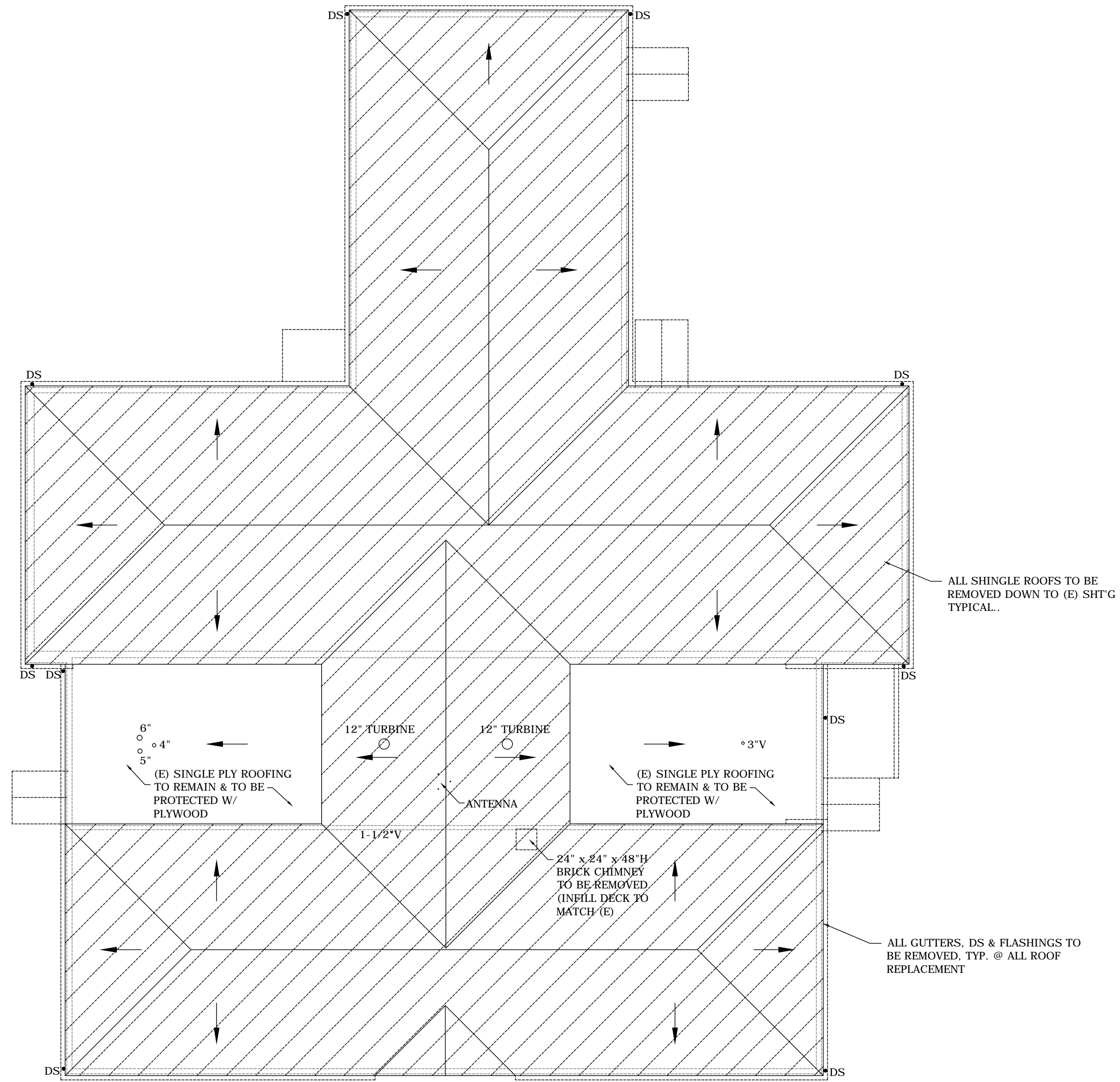
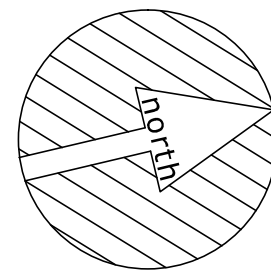
ELMIRA, OREGON

88834 TERRITORIAL HWY.



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DATE:	7-5-16
TITLE:	EXISTING ELEVATIONS
SCALE:	1/4" = 1'-0"

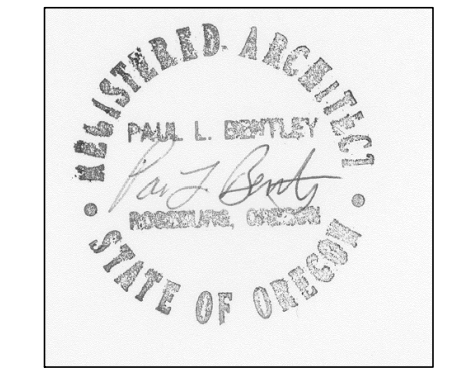
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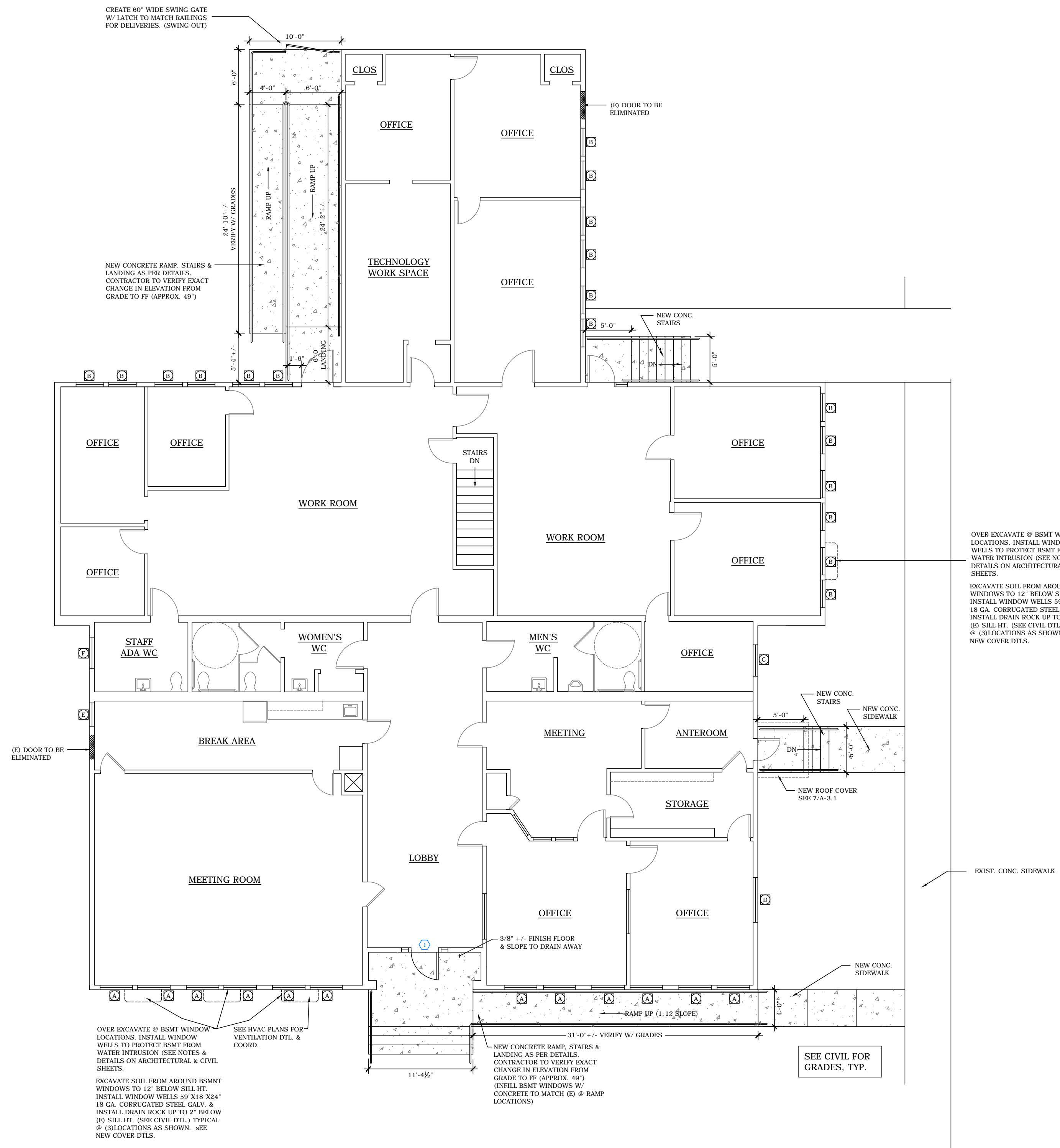
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AN EXTERIOR REMODEL/UPGRADE FOR THE
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FERN RIDGE SCHOOL DISTRICT
 88834 TERRITORIAL HWY. ELMIRA, OREGON



DRAWN BY:	CMHII
CHECKED BY:	PLB
DATE:	7-5-16
TITLE:	EXISTING/DEMO ROOF PLAN
SCALE:	1/8" = 1'-0"

SHEET NO:	A-1.3
	OF 22

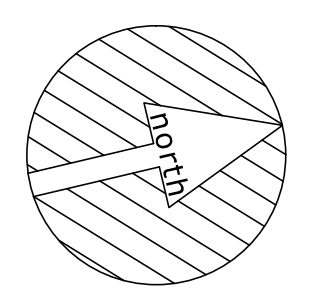


1 PROPOSED FLOOR PLAN

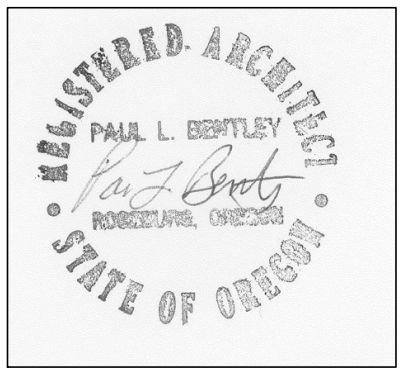
A-2.0

ALL DIMENSIONS +/- FIELD VERIFY

1/8" = 1'-0"

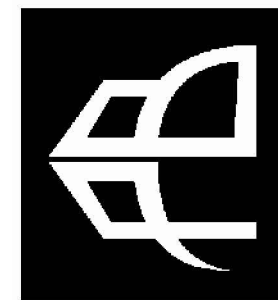


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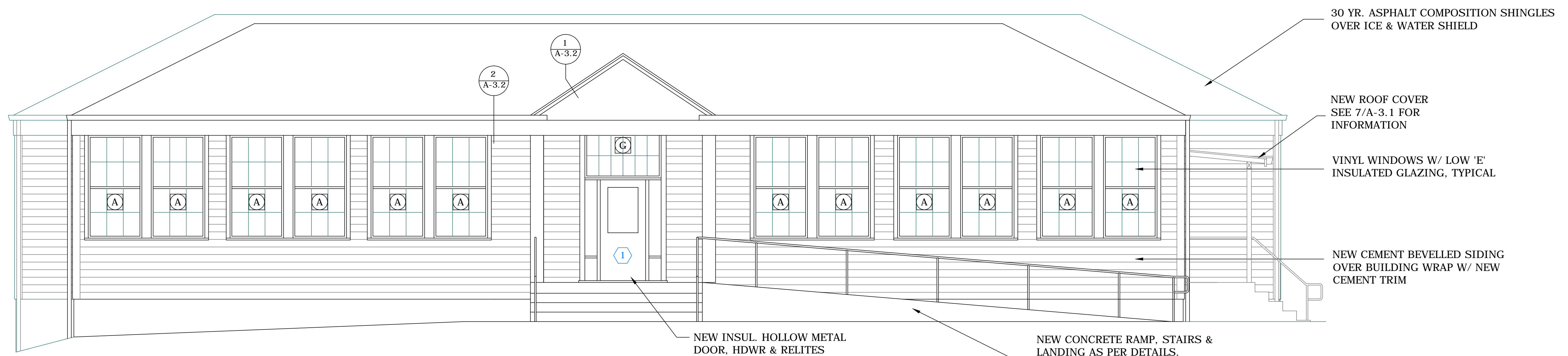
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CHECKED BY:	PLB
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TITLE:	PROPOSED FLOOR PLAN
SCALE:	1/8" = 1'-0"

SHEET NO:	A-2.0
	OF 22



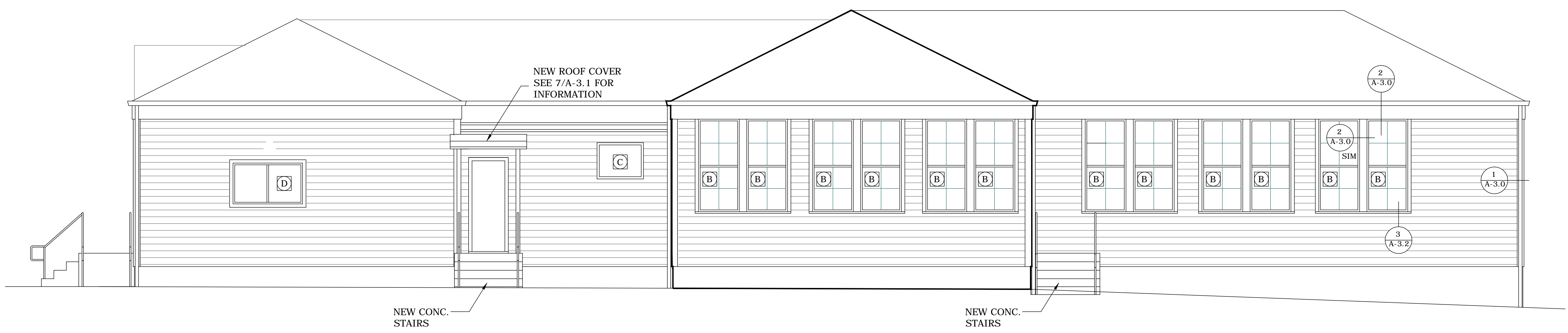
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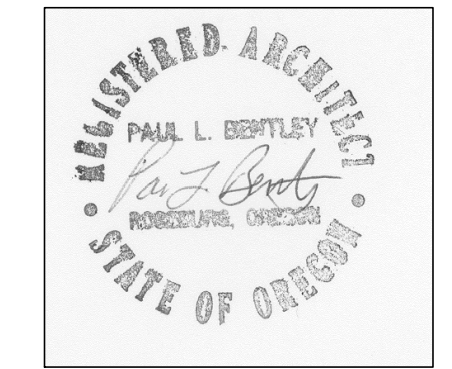
1 PROPOSED EAST ELEVATION
 A-2.1 ALL DIMENSIONS +/- FIELD VERIFY 1/4" = 1'-0"

PAINT ENTIRE EXTERIOR OF BUILDING UPON COMPLETION OF NEW SIDING, TRIM. ALL SURFACES EXCEPT PRE-FINISHED METAL, VINYL WINDOWS, AND NEW CONCRETE TO RECEIVE PAINT AS PER 09900A&B.



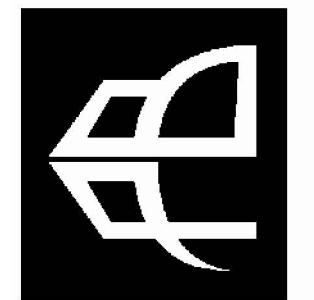
2 PROPOSED NORTH ELEVATION
 A-2.1 ALL DIMENSIONS +/- FIELD VERIFY SEE 1/A-2 FOR TYP. NOTES. 1/4" = 1'-0"

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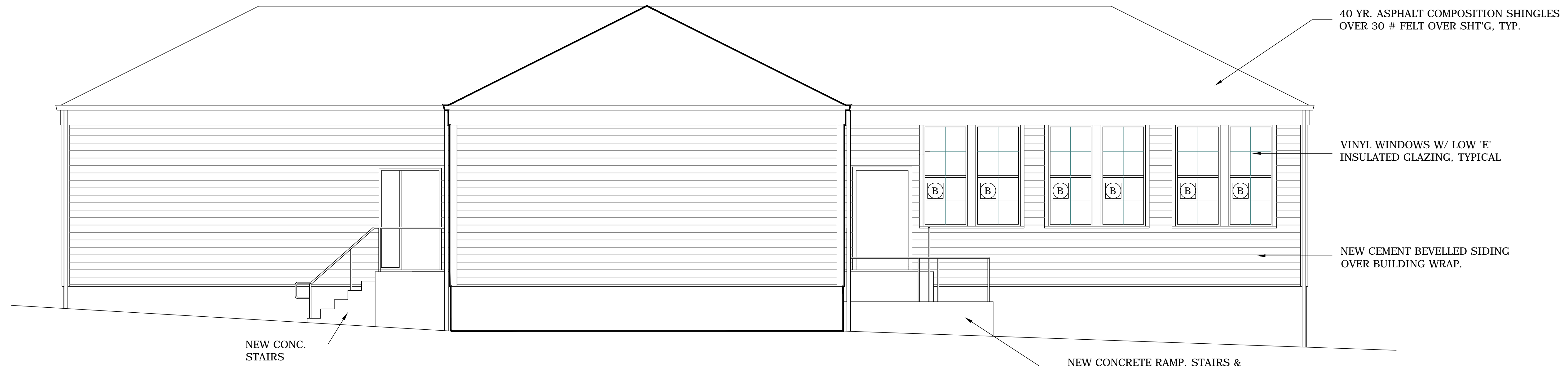
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DATE:	7-5-16
TITLE:	PROPOSED ELEVATIONS
SCALE:	1/4" = 1'-0"

SHEET NO:
A-2.1
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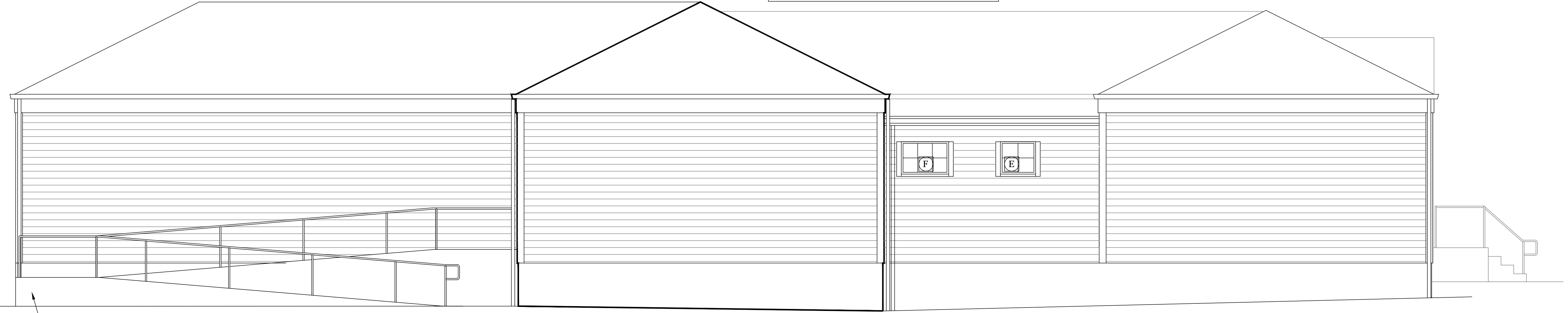
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1 PROPOSED WEST ELEVATION

A-2.2 ALL DIMENSIONS +/- FIELD VERIFY SEE 1/A-2 FOR TYP. NOTES. 1/4" = 1'-0"

PAINT ENTIRE EXTERIOR OF BUILDING UPON COMPLETION OF NEW SIDING, TRIM. ALL SURFACES EXCEPT PRE-FINISHED METAL, VINYL WINDOWS, AND NEW CONCRETE TO RECEIVE PAINT AS PER 09900A&B.

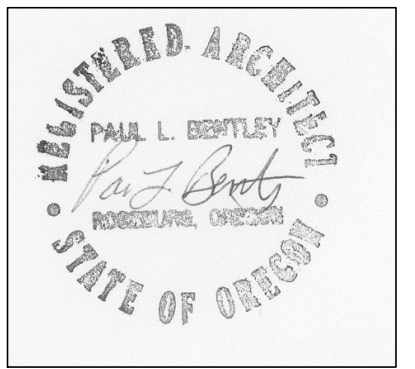


2 PROPOSED SOUTH ELEVATION

A-2.2 ALL DIMENSIONS +/- FIELD VERIFY SEE 1/A-2 FOR TYP. NOTES. 1/4" = 1'-0"

NEW CONCRETE RAMP, STAIRS & LANDING AS PER DETAILS. CONTRACTOR TO VERIFY EXACT CHANGE IN ELEVATION FROM GRADE TO FF (APPROX. 49")

AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:
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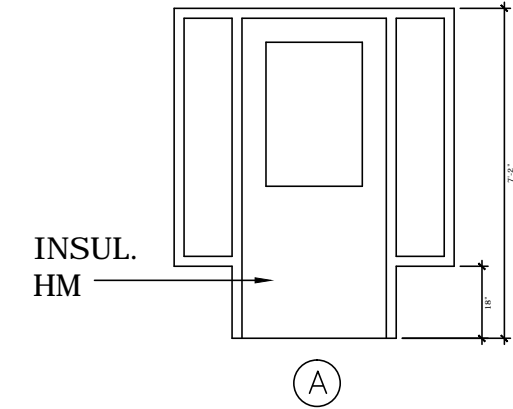


DRAWN BY:	CMHII
CHECKED BY:	PLB
DATE:	7-5-16
TITLE:	PROPOSED ELEVATIONS
SCALE:	1/4" = 1'-0"

SHEET NO:	A-2.2
	OF 22

DOOR SCHEDULE										
DOOR #	DOOR SIZE	TYPE	CONSTRUCTION	MATERIAL FINISH	GLASS	RATING	HARDWARE GROUP	FRAME MATERIAL	FRAME FINISH	DETAILS ON
1	3'-0" X 7'-0"	A	M	P	SI	-	20	M	P	4&5/A-3.0

PROVIDE CONDUIT & BOX @ DOOR #1 FOR FUTURE KEY CARD ACCESS

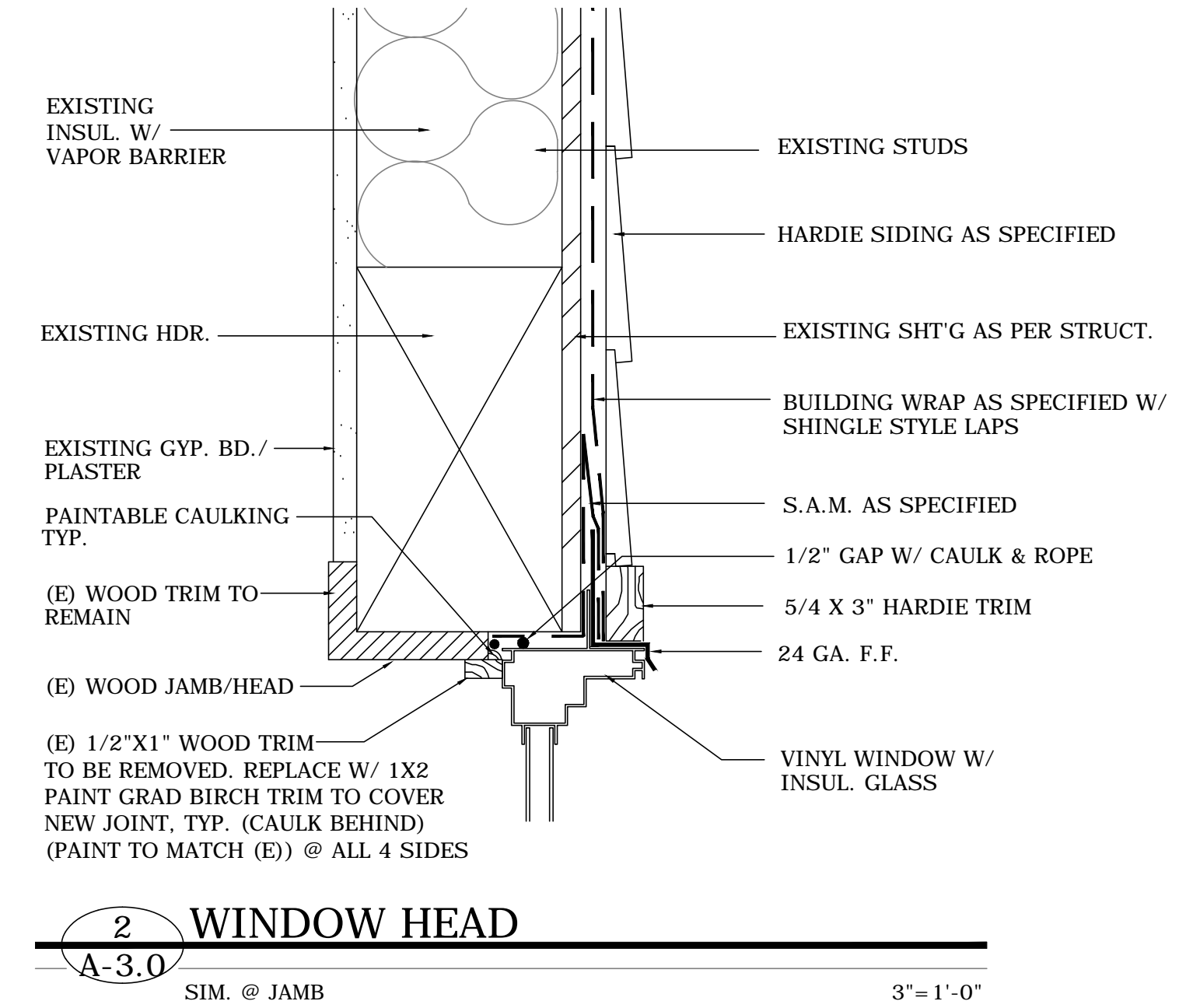
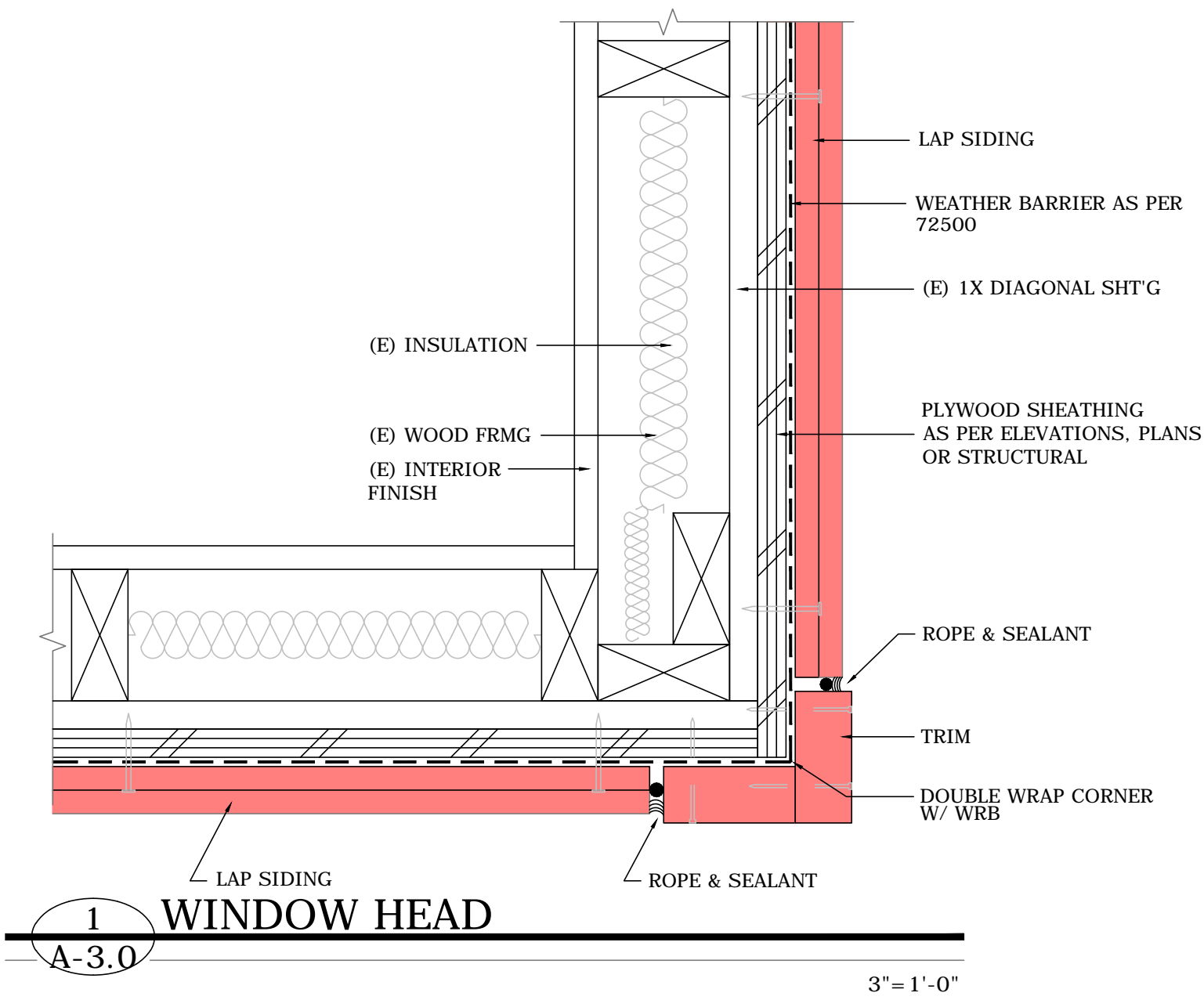


DOOR TYPES

CONSTRUCTION
 W = SOLID CORE WOOD
 M = HOLLOW METAL
 F = FACTORY

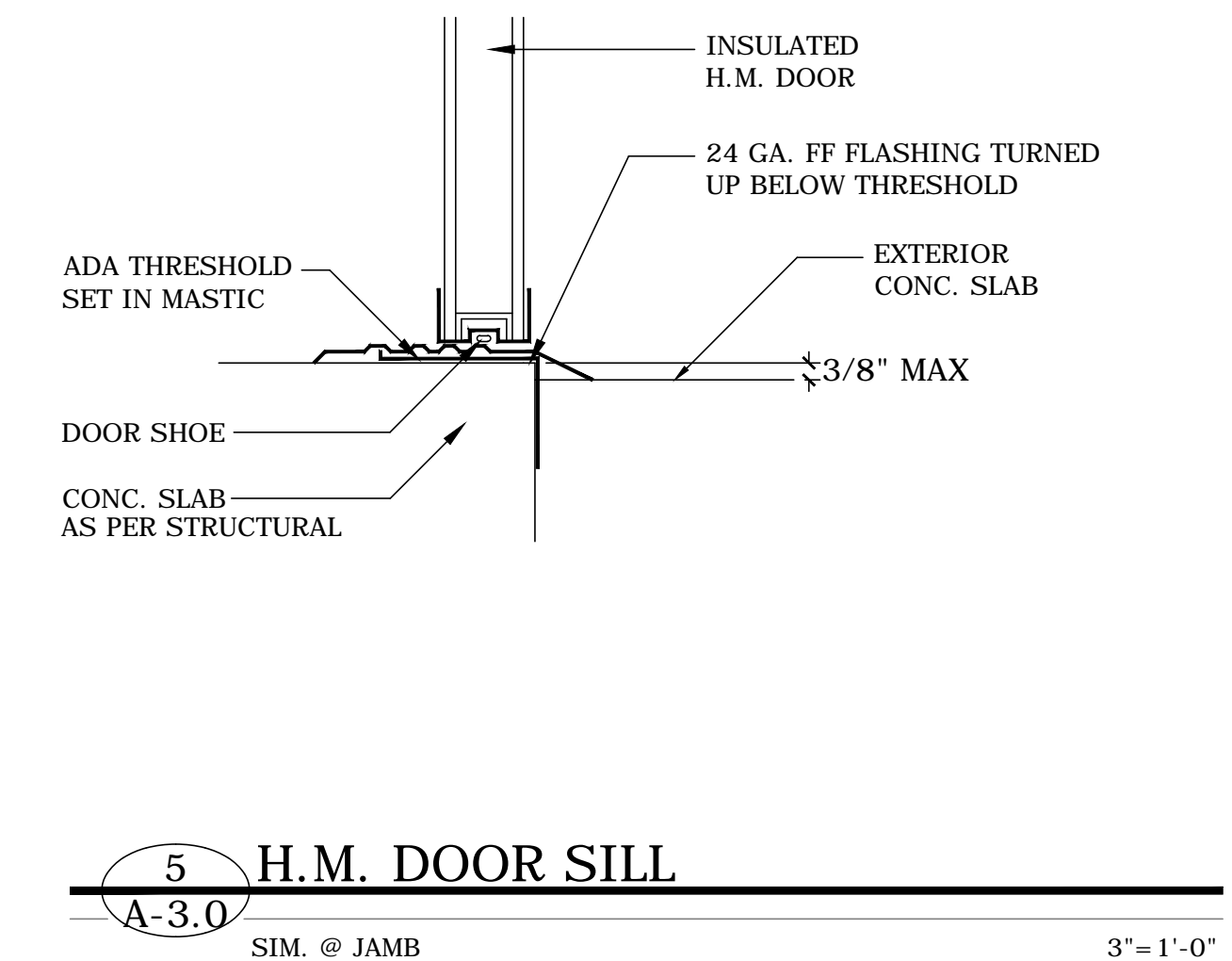
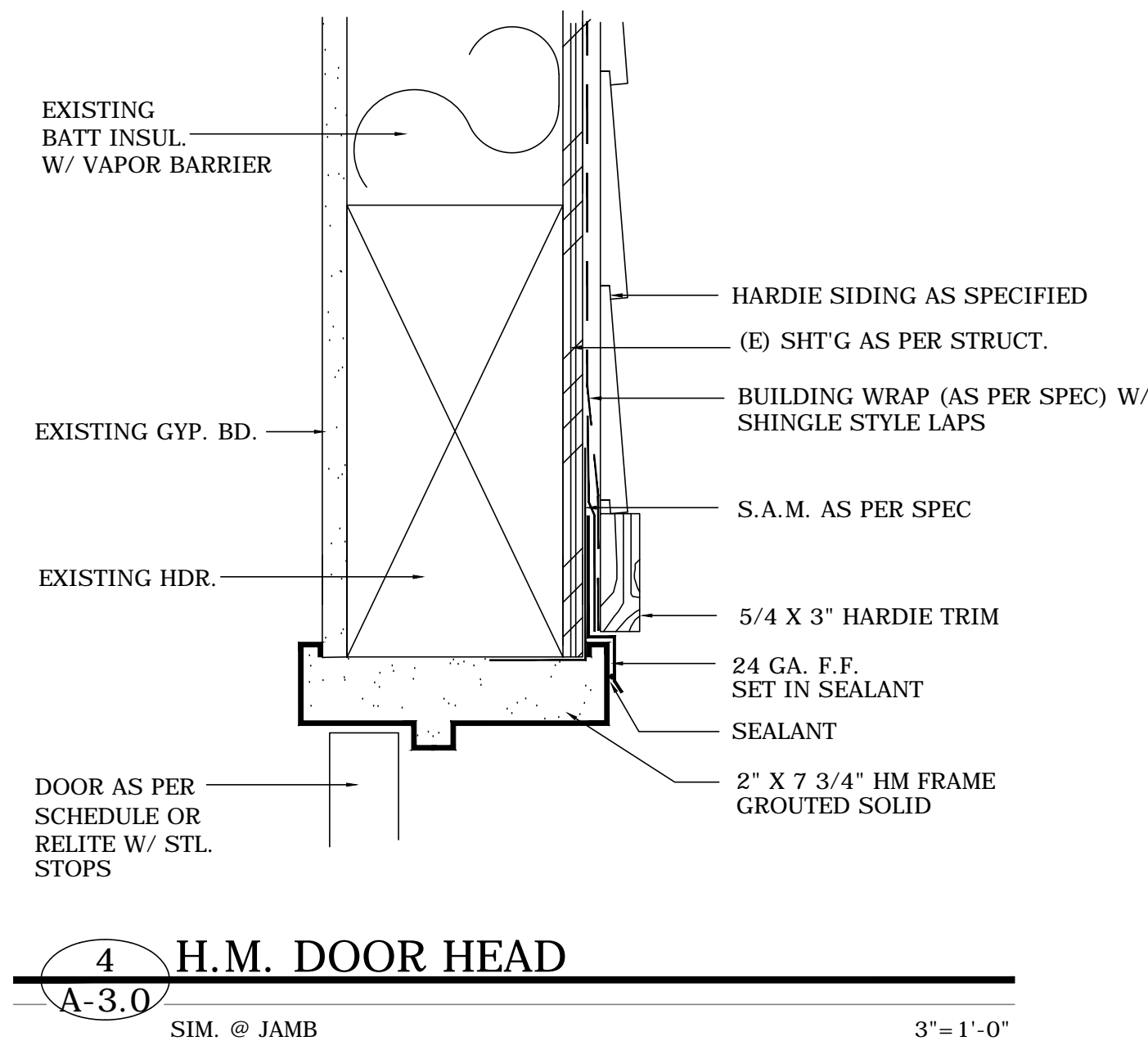
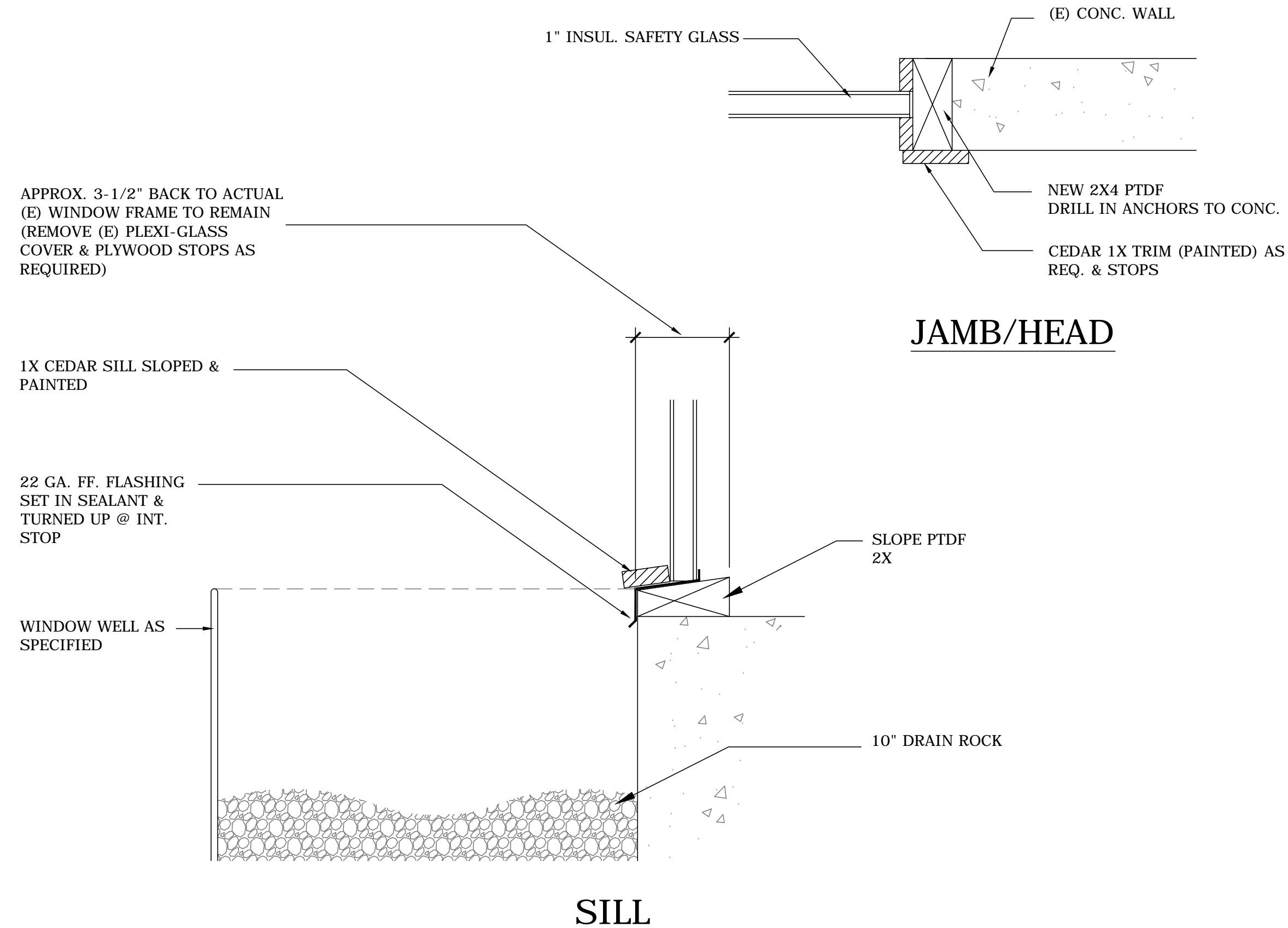
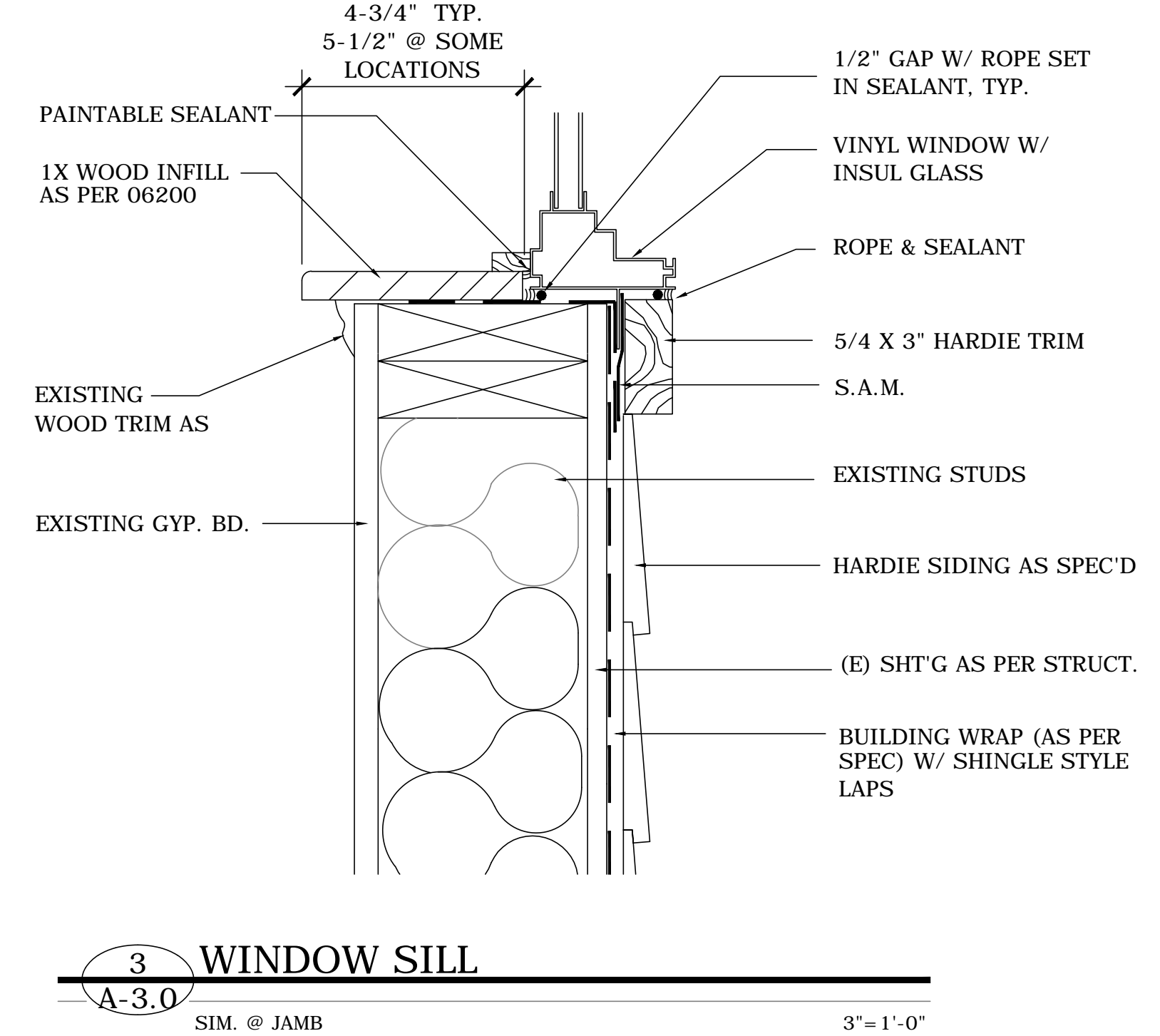
GLASS
 SI = SAFETY

MATERIAL FINISH
 S = STAIN & VARNISH
 P = PAINTED
 F = FACTORY



WINDOW SCHEDULE							
UNIT	SIZE	MATERIAL	OPERATION	DESCRIPTION	MANUFACTURER	COLOR	DETAILS
A	3'-6"W X 6'-10"H	VINYL	FX	SINGLE SQUARE UNIT	MILGUARD CLASSIC VINYL SERIES W/ SHADOW STYLE DIVIDERS	TAN	2 & 3/A-3.0
B	3'-0"W X 6'-10"H						
C	3'-0"W X 2'-6"H						
D	5'-0"W X 3'-0"H						
E	2'-6"W X 2'-6"H						
F	3'-6"W X 2'-6"H						
G	5'-0"W X 3'-0"H						

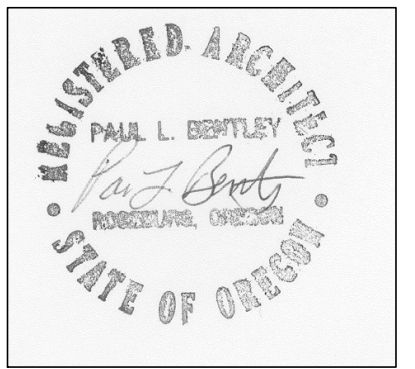
- SAFETY GLAZING WHERE REQUIRED BY CODE AND/OR NOTED.
 - ANY INT. TRIM TO REMAIN AFFECTED BY NEW WORK SHALL BE PAINTED W/ 2 CTS. SG. ENAMEL.



619 SE JACKSON STREET
 ROSEBURG, OR 97470
 541.572.0273 OFFICE
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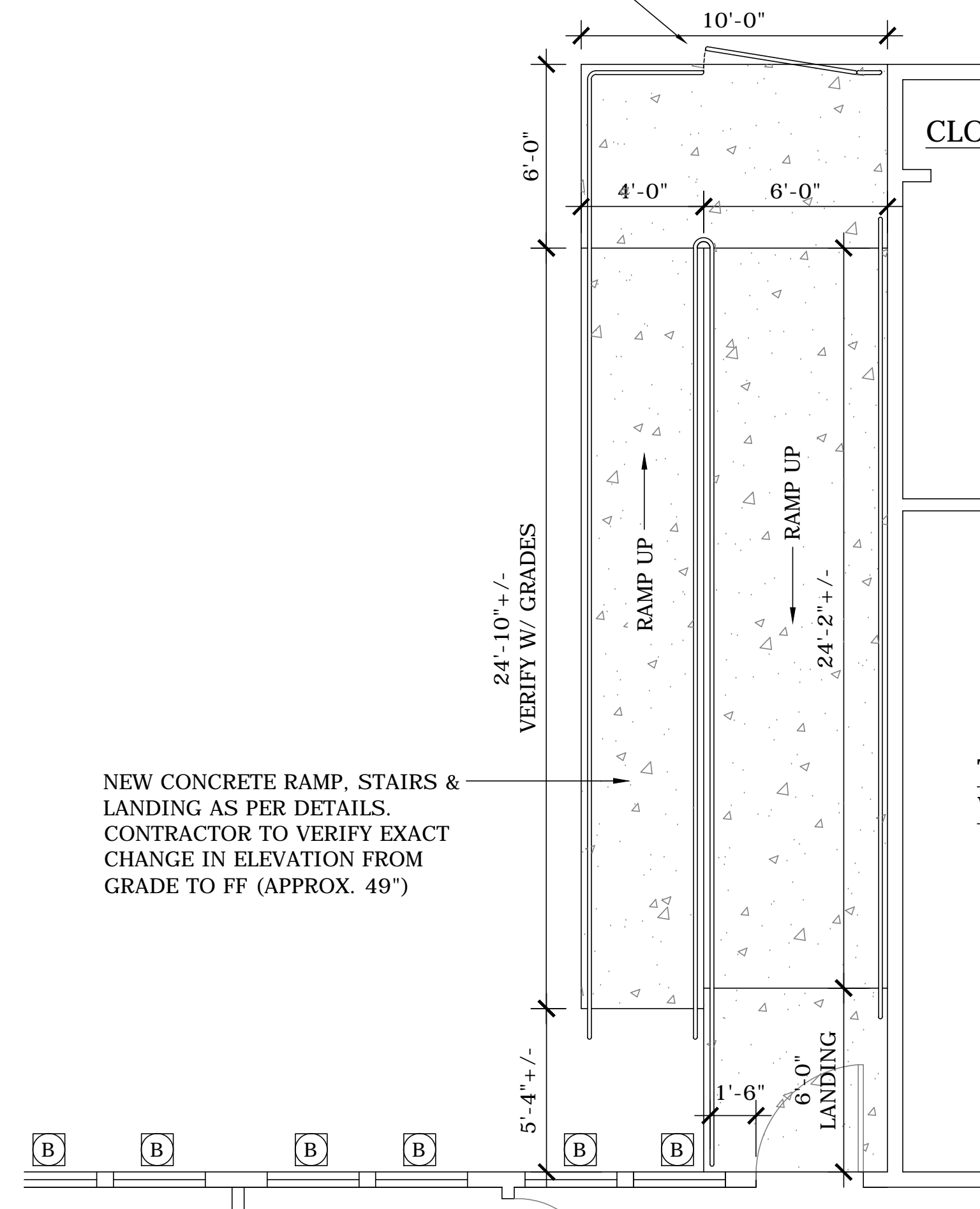
AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:
FERN RIDGE SCHOOL DISTRICT
 ELMIRA, OREGON
 BBB34 TERRITORIAL HWY.



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CHECKED BY: PLB
DATE: 7-5-16
TITLE: SCHEDULES
SCALE: SEE EACH

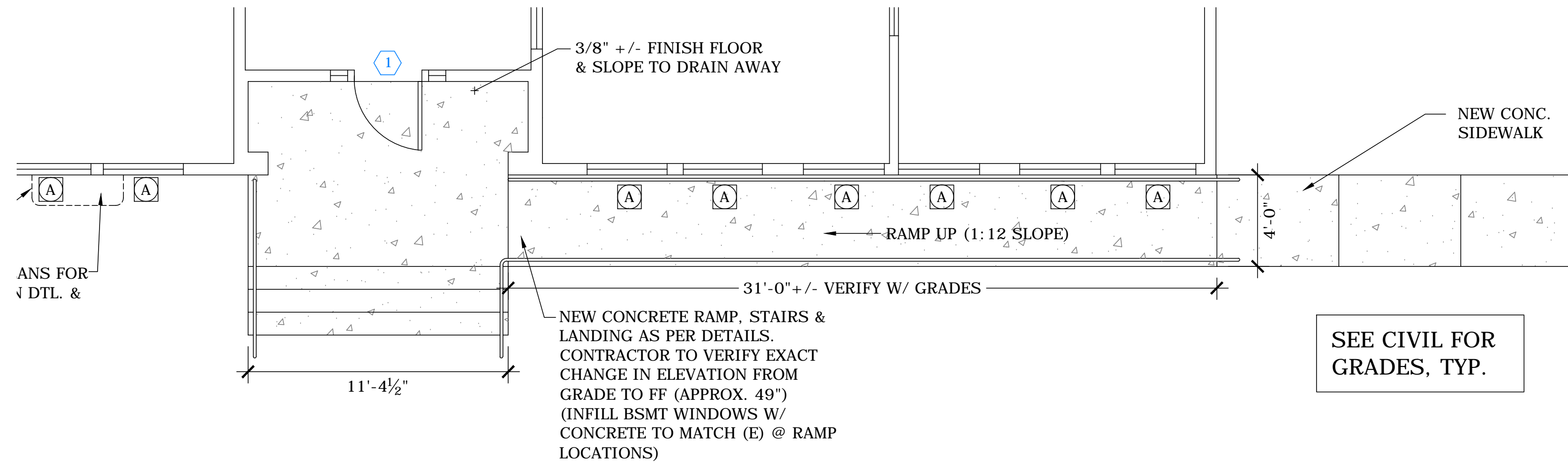
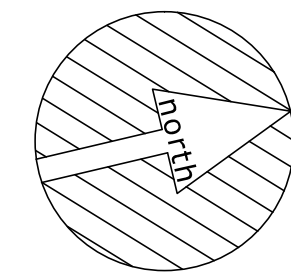
SHEET NO:
A-3.0
 OF 22

CREATE 60" WIDE SWING GATE W/ LATCH TO MATCH RAILINGS FOR DELIVERIES. (SWING OUT)



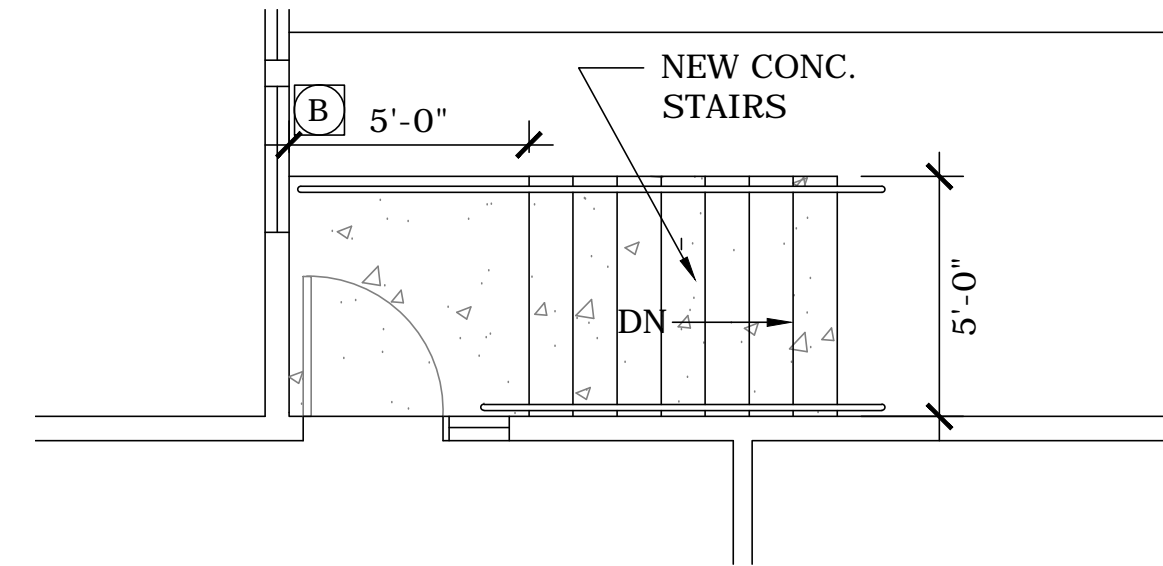
1 PROPOSED RAMP PLAN

A-3.1 ALL DIMENSIONS +/- FIELD VERIFY 1/4" = 1'-0"



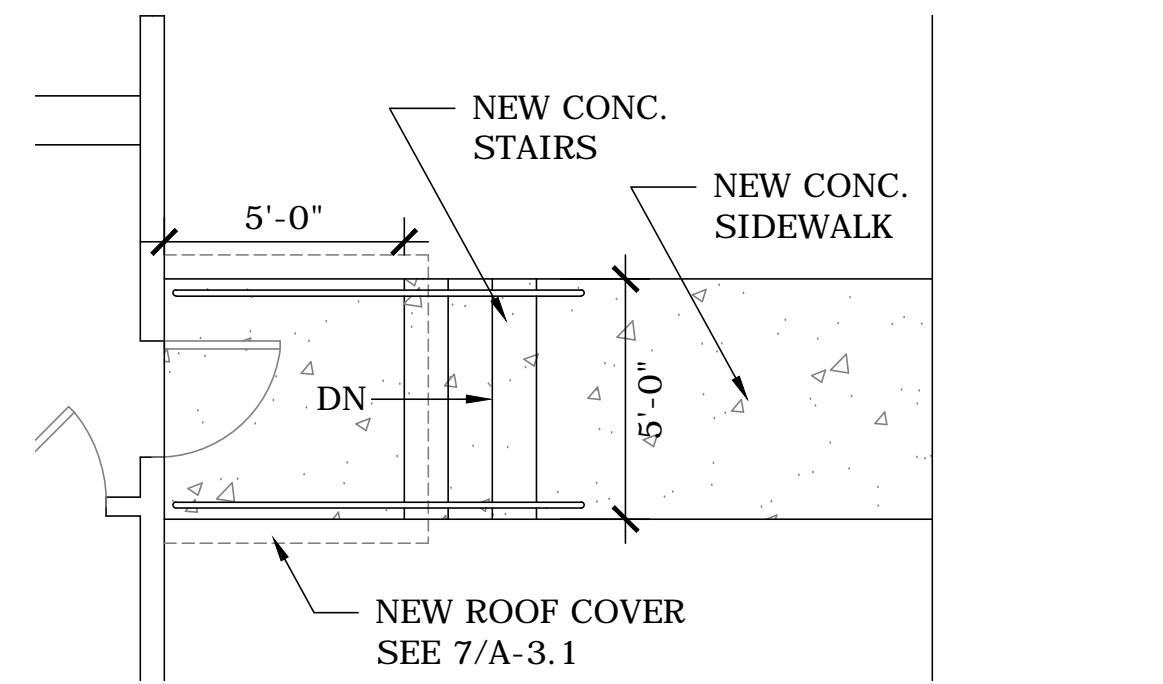
2 PROPOSED STAIR PLAN

A-3.1 ALL DIMENSIONS +/- FIELD VERIFY 1/4" = 1'-0"



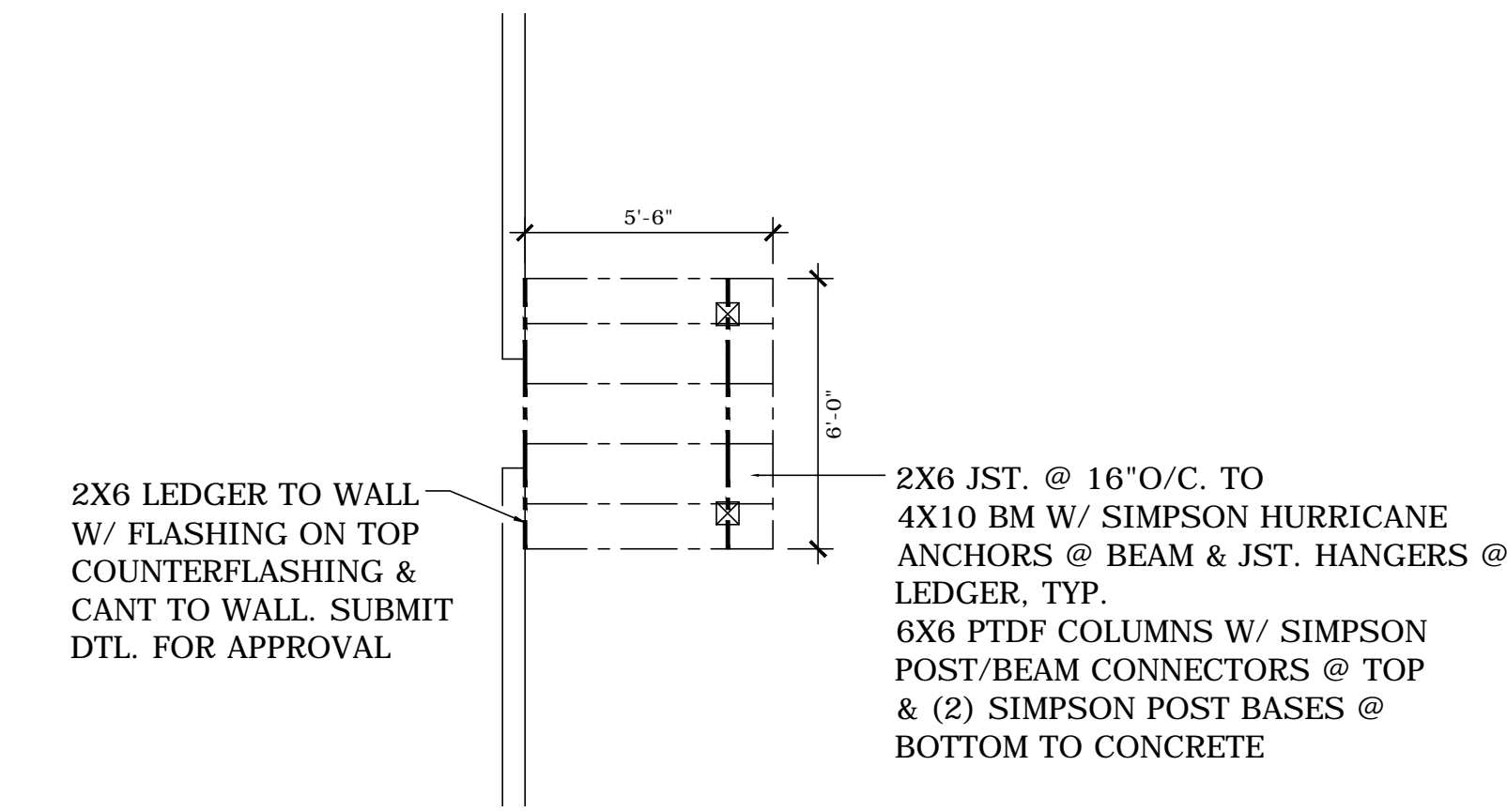
3 PROPOSED STAIR PLAN

A-3.1 ALL DIMENSIONS +/- FIELD VERIFY 1/4" = 1'-0"



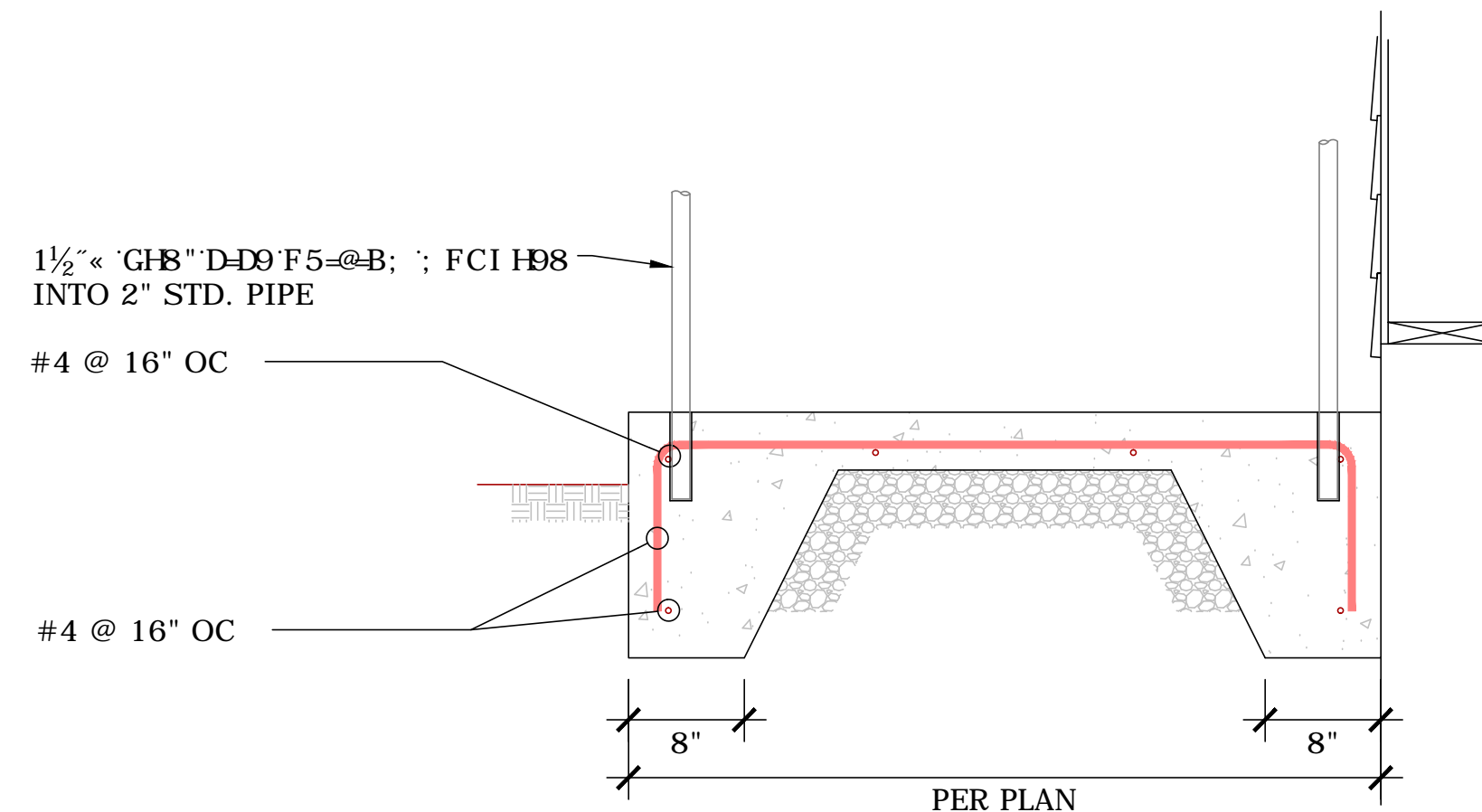
4 PROPOSED STAIR PLAN

A-3.1 ALL DIMENSIONS +/- FIELD VERIFY 1/4" = 1'-0"



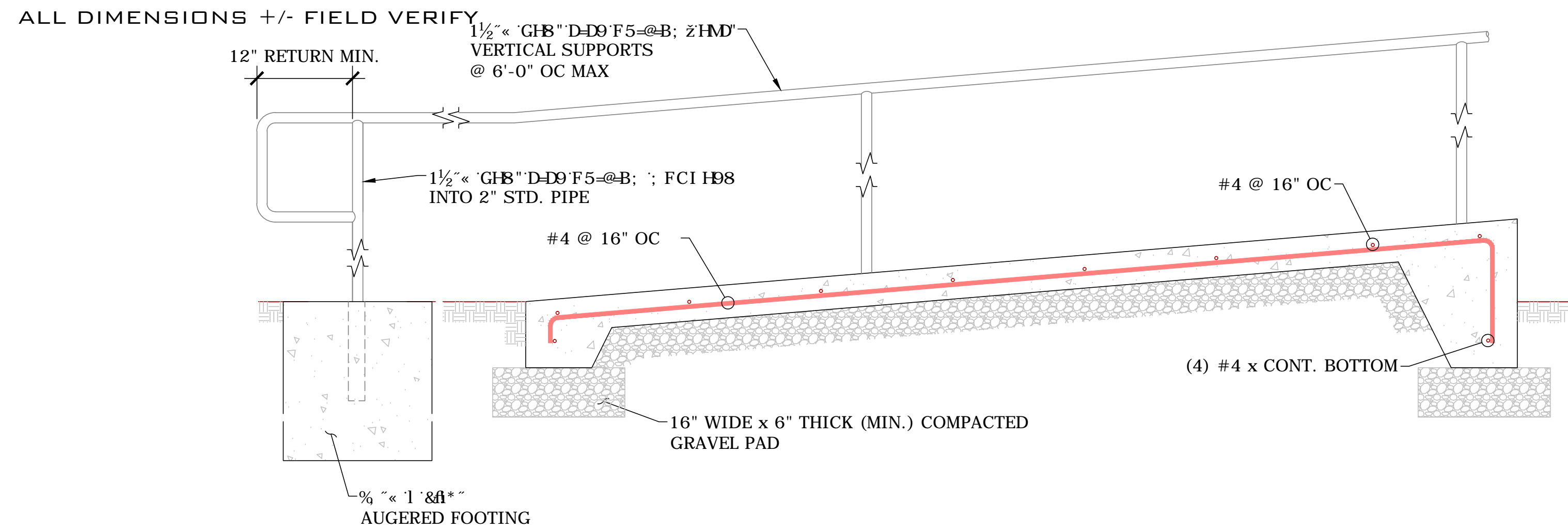
7 ROOF COVER @ PORCH

A-3.1 1/4" = 1'-0"



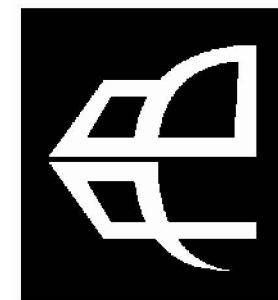
5 PROPOSED RAMP PLAN

A-3.1 1/4" = 1'-0"



6 CONCRETE RAMP SECTION

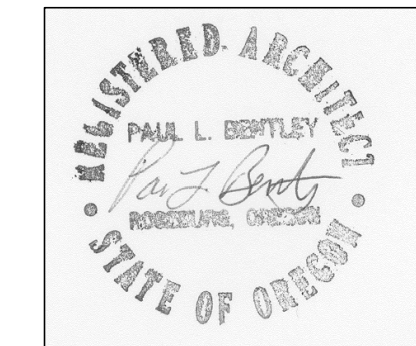
A-3.1 1" = 1'-0"



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AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:
FERN RIDGE SCHOOL DISTRICT
ELMIRA, OREGON
88834 TERRITORIAL HWY.



DRAWN BY: CMHII
CHECKED BY: PLB
DATE: 7-5-16
TITLE: LARGE SCALE RAMP & STAIRS
SCALE: 1/8" = 1'-0"

SHEET NO:
A-3.1
OF 22

FERN RIDGE SCHOOL DISTRICT

ELMIRA, OR

CD SET-07/05/2016



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GENERAL NOTES

- SURVEY PROVIDED BY KPFF, DATED MAY 17TH 2016. ELEVATIONS ARE BASED ON NAVD 88 (GEOID 12A) VERTICAL DATUM. AN ELEVATION OF 396.49' WAS ESTABLISHED THROUGH A 3 MINUTE GPS OBSERVATION ON CONTROL POINT NO. 1 USING THE OREGON REAL TIME GPS NETWORK (ORGN).
- CONSTRUCTION LAYOUT (ALL ACTUAL LINES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOWN, ON THE PLANS.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. SEE SHEET C2.0 FOR PROJECT CONTROL INFORMATION.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
- WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED – DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES.
- CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR.
- SOME SITE DEMOLITION AND UTILITY RELOCATION HAS BEEN PERFORMED. SURVEY MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS. ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987). EXCAVATORS MUST NOTIFY ALL PERTINENT COMPANIES OR AGENCIES WITH UNDERGROUND UTILITIES IN THE PROJECT AREA AT LEAST 48 BUSINESS-DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO COMMENCING AN EXCAVATION, SO UTILITIES MAY BE ACCURATELY LOCATED.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF KPFF CONSULTING ENGINEERS, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
- THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADHERE TO CITY OF LANE COUNTY AND DEQ REQUIREMENTS. FOR MINIMUM EROSION CONTROL MEASURES. DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
- TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO EXISTING BUILDING AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.
- NOTIFY LANE COUNTY INSPECTOR 72 HOURS BEFORE STARTING WORK. A PRECONSTRUCTION MEETING WITH THE OWNER, THE OWNER'S ENGINEER, CONTRACTOR AND THE LANE COUNTY REPRESENTATIVE SHALL BE REQUIRED.

CONSTRUCTION NOTES

GENERAL

- SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER IS NOT PERMITTED.
- SPECIAL INSPECTION REQUIRED FOR ALL COMPACTION TESTING.

UTILITIES

- ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
- CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ELEC., ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICT OCCURS.
- CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE.
- BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND OWNER.

STORM AND SANITARY

- CONNECTIONS TO EXISTING STORM AND SANITARY SEWERS SHALL CONFORM TO THE 2015 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 00490. "WORK ON EXISTING SEWERS AND STRUCTURES."
- BEGIN LAYING STORM DRAIN AND SANITARY SEWER PIPE AT THE LOW POINT OF THE SYSTEM, TRUE TO GRADE AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. THE CONTRACTOR SHALL ESTABLISH LINE AND GRADE FOR THE STORM AND SANITARY SEWER PIPE USING A LASER.
- ACTUAL LINES AND GRADES SHALL BE STAKED BY A QUALIFIED SURVEYOR, BASED ON COORDINATES, DIMENSIONS AND BEARINGS INDICATED ON THE PLANS. CONTRACTOR SHALL RETAIN A SURVEYOR LICENSED IN THE STATE OF OREGON.
- ALL ROOF DRAIN AND CATCH BASIN LEADERS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT UNLESS NOTED OTHERWISE IN THE PLANS.

WATER

- ALL WATER MAIN / SANITARY SEWER CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT REGULATIONS, CHAPTER 333.

EARTHWORKS

- CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM.
- TRENCH BEDDING AND BACKFILL SHALL BE AS SHOWN ON THE PIPE BEDDING AND BACKFILL DETAIL. THE PROJECT SPECIFICATIONS AND AS REQUIRED IN THE SOILS REPORT. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER WILL NOT BE PERMITTED.

MATERIAL NOTES

- GENERAL: MATERIALS SHALL BE NEW. THE USE OF MANUFACTURER'S NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, AND USEFULNESS. PROPOSED SUBSTITUTIONS WILL REQUIRE WRITTEN APPROVAL FROM ARCHITECT PRIOR TO INSTALLATION.
- STORM AND SANITARY SEWER PIPING SHALL BE PVC PIPE OR DUCTILE IRON PIPE, CONFORMING TO THE PROJECT SPECIFICATIONS; AS INDICATED IN THE PLANS.
- CONCRETE FOR CURBS, SIDEWALK AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS.

ABBREVIATIONS

AC	ASPHALT CONCRETE	OVH/OH	OVERHEAD
AD	AREA DRAIN	P/L	PROPERTY LINE
APPROX	APPROXIMATE	PC	POINT OF CURVATURE
B	BOLLARD	PCC	POINT OF COMPOUND CURVATURE
BLDG	BUILDING	PCR	POINT OF CURB RETURN
BOW	BACK OF WALK	PED	PEDESTRIAN
BS	BOTTOM OF SWALE	PIV	POST INDICATOR VALVE
	BOTTOM OF STAIR	PM	PARKING METER
BW	BOTTOM OF WALL	POC	POINT ON CURVE
CB	CATCH BASIN	PP	POWER POLE
CL	CENTERLINE	PRC	POINT OF REVERSE CURVATURE
CMP	CORRUGATED METAL PIPE	PT	POINT OF TANGENT
CMU	CONCRETE MASONRY UNIT	P.U.E	PUBLIC UTILITY EASEMENT
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE
CONC.	CONCRETE	PVMT	PAVEMENT
COTG	CLEANOUT TO GRADE	PVT	PRIVATE
CP	CONTROL POINT	R	RIM
Δ	DELTA	RD	ROOF DRAIN
D/W	DRIVEWAY	R.O.W	RIGHT-OF-WAY
DIA. ∅	DIAMETER	S	SLOPE (FT/FT)
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN
E	EASTING	SDMH	STORM DRAIN MANHOLE
EXIST./EX	EXISTING	SHT	SHEET
FDC	FIRE DEPARTMENT CONNECTION	SS	SANITARY SEWER
FF	FINISH FLOOR ELEVATION	SSMH	SANITARY SEWER MANHOLE
FG	FINISH GRADE	ST	STREET
FH	FIRE HYDRANT	STA	STATION
FL	FLOWLINE	STD	STANDARD
FND	FOUNDATION	S/W	SIDEWALK
G	GUTTER	TC	TOP OF CURB
GB	GRADE BREAK	TD	TRENCH DRAIN
GL	GAS LINE	TG	TOP OF GROUND
GV	GATE VALVE	TP	TOP OF PAVEMENT
H	HEIGHT	TRANS.	TRANSFORMER
HCP	HANDICAP PARKING SPACE	TS	TOP OF STAIR
HP	HIGH POINT	TW	TOP OF WALL
ID	INSIDE DIAMETER		TOP OF WALK
IE	INVERT ELEVATION	TYP	TYPICAL
INV	INVERT	UG	UNDERGROUND
IRR.	IRRIGATION	UGE	UNDERGROUND ELECTRIC
LP	LIGHT POLE	W	WATER
MH	MANHOLE	W/	WITH
MIN	MINIMUM	WCR	WHEEL CHAIR RAMP
N	NORTHING	WM	WATER METER
O.D	OUTSIDE DIAMETER	WV	WATER VALVE
OF	OUTFALL		

SHEET INDEX

SHEET NO.	SHEET TITLE	SHEET DESCRIPTION
1	C1.0	CIVIL NOTES
2	C2.0	UTILITY PLAN
3	C3.0	GRADING PLAN
4	C4.0	CIVIL DETAILS

NOTICE TO EXCAVATORS:
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.

Call the Oregon One-Call Center
1-800-332-2344

SEPARATION STATEMENT

ALL WATER MAIN CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT, CHAPTER 333. WATER MAINS SHALL CROSS OVER SANITARY SEWERS WITH A 18" MINIMUM CLEARANCE BETWEEN OUTSIDE DIAMETERS OF PIPE WITH ALL PIPE JOINTS EQUIDISTANT FROM CROSSING. HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS IN PARALLEL INSTALLATIONS SHALL BE 10'. MAINTAIN 12" MINIMUM VERTICAL DISTANCE FOR ALL OTHER UTILITY CROSSINGS AND 12" HORIZONTAL PARALLEL DISTANCE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN THE MINIMUM 10' HORIZONTAL SEPARATION, THE WATER MAIN SHALL BE LAID ON A SEPARATE SHELF IN THE TRENCH 18" INCHES ABOVE THE SEWER.

AN EXTERIOR REMODEL/UPGRADE FOR THE
DISTRICT OFFICE BUILDING AT:

FERN RIDGE SCHOOL DISTRICT

88834 TERRITORIAL HWY. | ELMIRA, OREGON



EXPIRATION DATE: 07/16

DRAWN BY: AB

CHECKED BY: PM

DATE: 7-5-16

TITLE: CIVIL NOTES

SCALE: N.T.S.

SHEET NO: C1.0

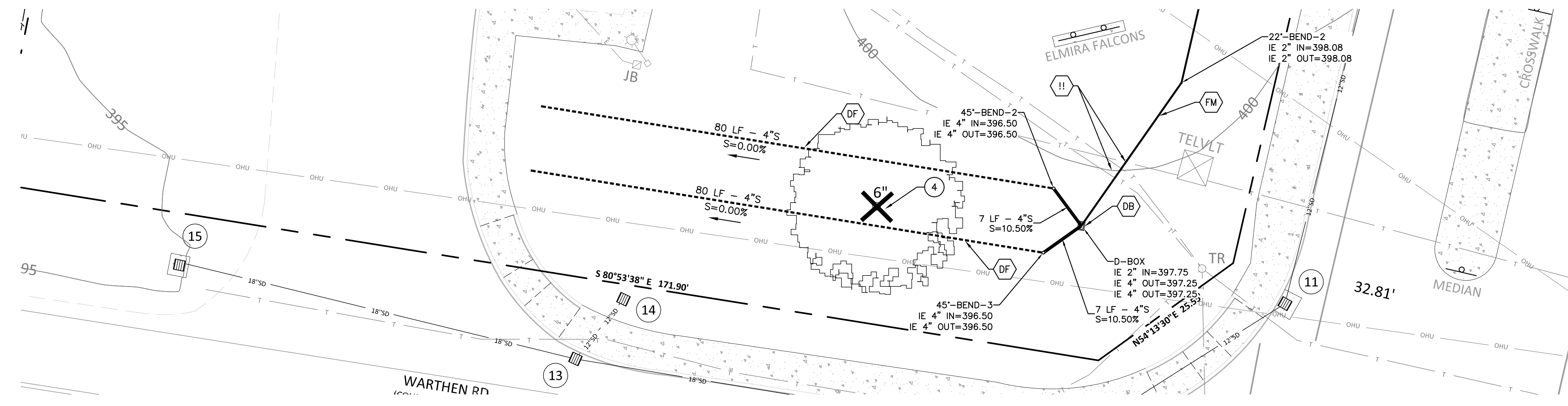
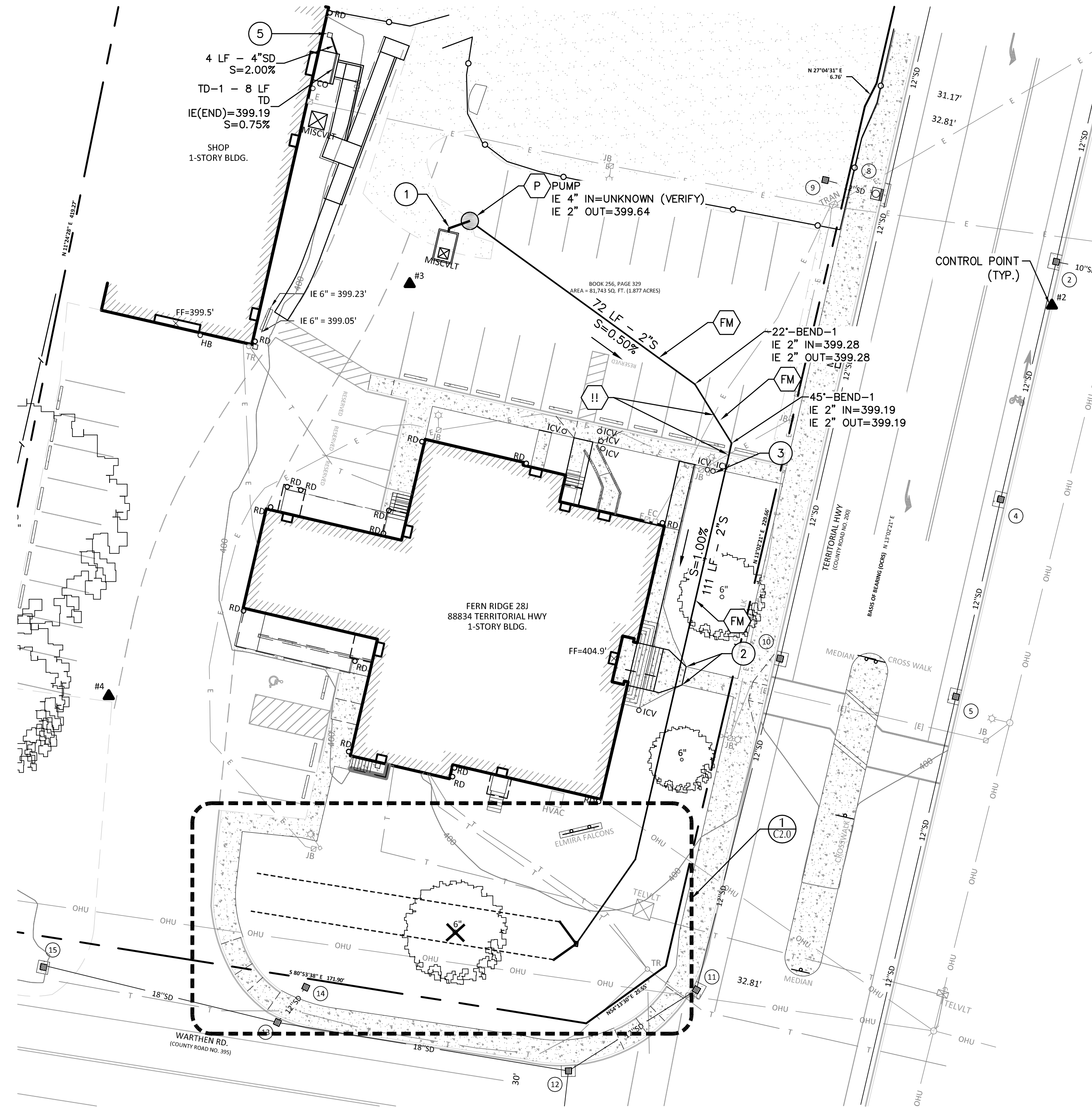
1 OF 4

PROJECT CONTROL:

STATION	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	1-1/8" BRASS CAP "KPFF CONTROL"	116176.31	114603.61	396.49'
2	1-1/8" BRASS CAP "KPFF CONTROL"	116441.27	114715.50	402.33'
3	MAG NAIL W/ WASHER "KPFF CONTROL"	116446.86	114548.27	401.27'
4	MAG NAIL W/ WASHER "KPFF CONTROL"	116339.61	114469.90	398.83'

STRUCTURE TABLE

STRUCTURE ID	NORTHING	EASTING
22"-BEND-1	116420.78	114622.50
22"-BEND-2	116297.06	114607.01
45"-BEND-1	116405.39	114632.10
45"-BEND-2	116280.83	114587.36
45"-BEND-3	116270.95	114585.77
D-BOX	116275.08	114591.60



1 UTILITY DETAIL
SCALE: 1" = 10'



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PAUL L BENTLEY Architect A.I.A. P.C.

SHEET NOTES

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 2/C4.0.
- STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.

KEY NOTES

- CONNECT TO EXISTING OUTLET. ELEVATION UNKNOWN. INSTALL NEW PIPING TO PROPOSED PUMP BASIN AT 2% MINIMUM SLOPE. REPORT EXACT LOCATION & ELEVATION TO KPFF.
- PROTECT EXISTING IRRIGATION HEADS.
- PROTECT EXISTING LIGHTPOLE AND ELECTRICAL BOX. FIELD ADJUST, FORCE MAIN TO AVOID FOOTING AND CONFLICTS.
- REMOVE TREE.
- CONNECT TO EXISTING CATCH BASIN. CLEAN OUT EXISTING CATCH BASIN. VERIFY ELEVATION, OUTLET PIPE SIZE, AND SUMP. REPORT THE ABOVE TO KPFF.

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIREF PROTECTION)
- STRUCTURE TYPE CALLOUT
- ID NUMBER (WHERE APPLICABLE)
- XX XX-XX
X+XX.X RT X.X' → LOCATION (WHERE APPLICABLE)
- RIM=
- IE IN = XX.X → STRUCTURE INFO (WHERE APPLICABLE)
- IE OUT = XX.X

PIPE LABEL

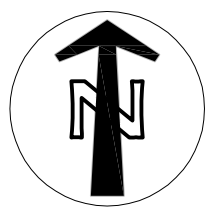
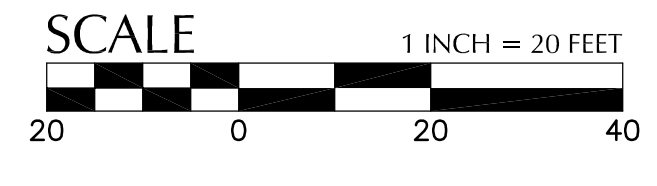
- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE
- XXLF - XX" XX
- S=X.XXX% → SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
BEND	BEND, USE FITTING IF APPLICABLE	
CONN	CONNECTION	
PUMP	PUMP BASIN, BY ORENCO	
TD	TRENCH DRAIN	3 (C4.0)
TEE	TEE CONNECTION	
WYE	WYE CONNECTION	

SHEET LEGEND

- DB DISTRIBUTION BOX (C4.0)
- INSTALL ORENCO EASYPAK PUMP PACKAGE OR APPROVED EQUAL IN 30" ORENCO PUMP BASIN. PROVIDE ELECTRICAL SERVICE TO BASIN & CONNECTION TO CONTROL PANEL. COORDINATE LOCATION OF CONTROL PANEL WITH SCHOOL DISTRICT (CONTACT: JEFF THIESSEN). PACKAGE TO INCLUDE MVP CONTROL PANEL, DUPLEX 50 GPM PUMPS, AND TIMED-DOSING FLOAT SYSTEM.
- UTILITY CROSSING. EXACT LOCATION & DEPTH OF EXISTING UTILITY UNKNOWN. POTHOLE PRIOR TO CONSTRUCTION AND PROVIDE LOCATION & DEPTH INFORMATION TO KPFF. PROVIDE 12" MIN. CLEARANCE, U.N.O.
- FM FORCE MAIN. INSTALL PIPING FROM PUMP OUTLET TO DISTRIBUTION BOX WITHOUT HIGH POINTS OR LOW POINTS.
- DF EQUAL DISTRIBUTION DRAIN FIELD PIPING & TRENCH. INSTALL PER OAR 340-71&73 (C4.0)



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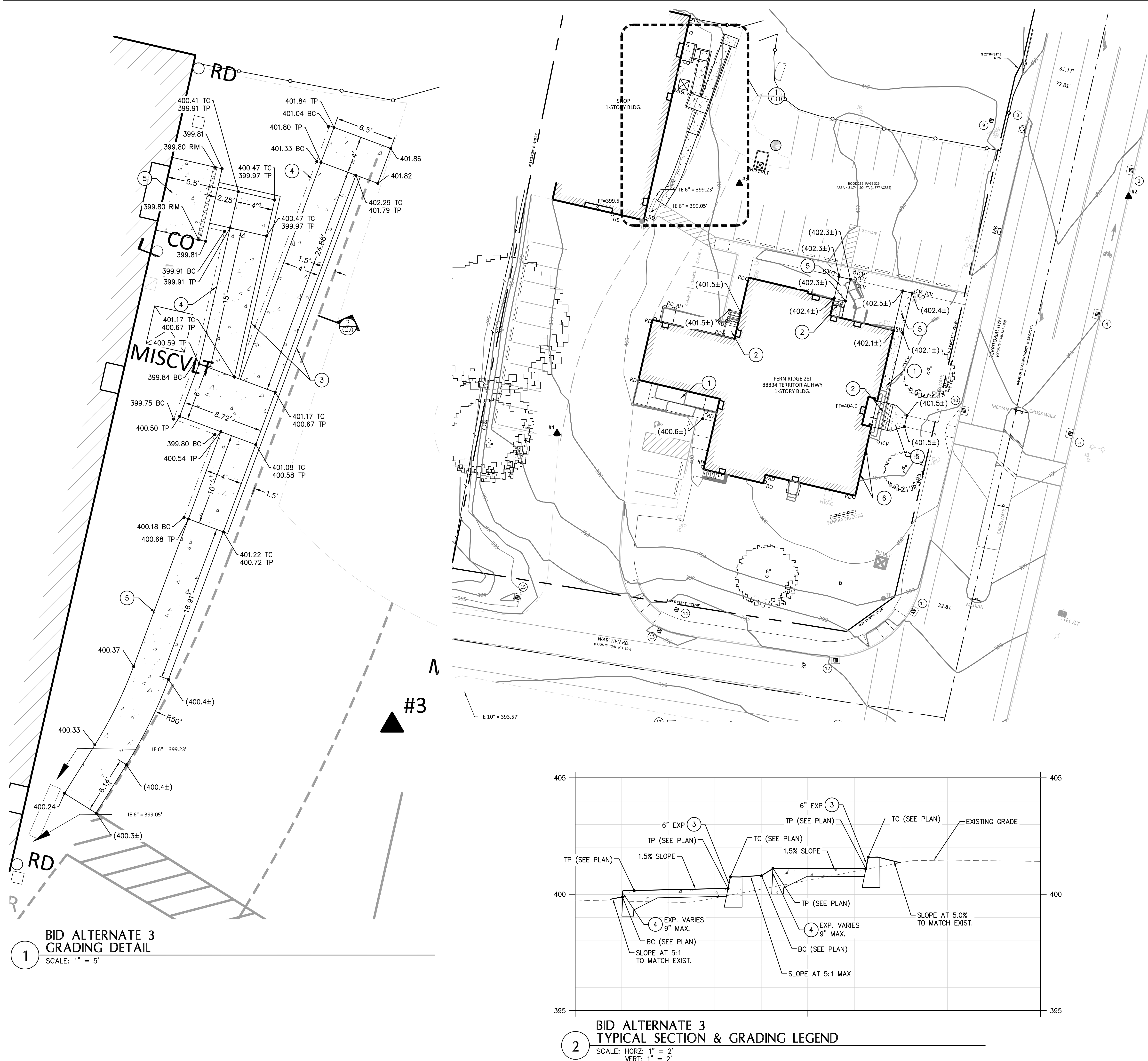


DRAWN BY:	AB
CHECKED BY:	PM
DATE:	7-5-16
TITLE:	UTILITY PLAN
SCALE:	N.T.S.

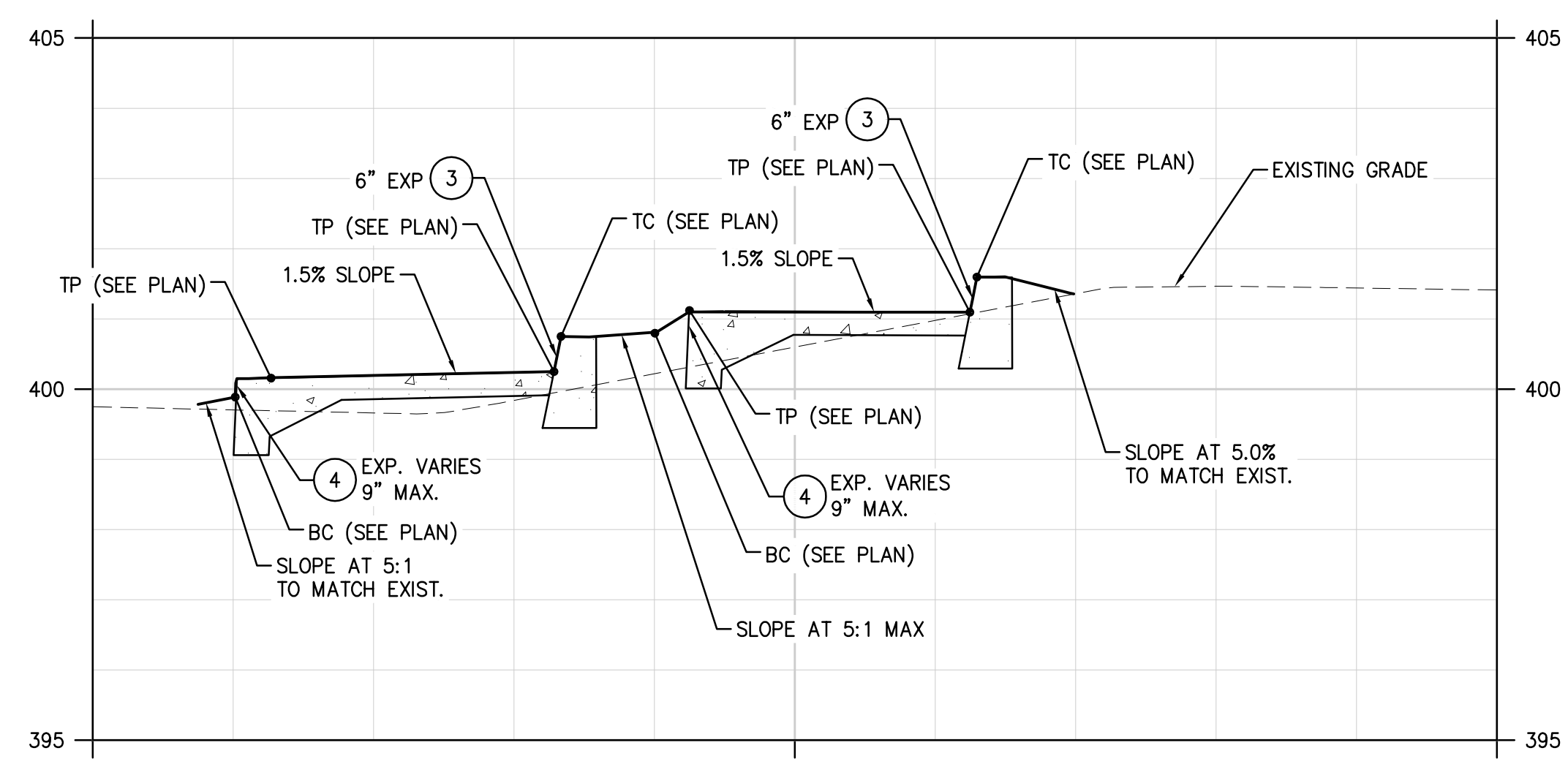
SHEET NO:	C2.0
	2 OF 4

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 Plotted: 6/27/16 at 12:28pm By: abacus



1 BID ALTERNATE 3
 GRADING DETAIL
 SCALE: 1" = 5'



2 BID ALTERNATE 3
 TYPICAL SECTION & GRADING LEGEND
 SCALE: HORIZ: 1" = 2'
 VERT: 1" = 2'

- SHEET NOTES**
- SEE ARCHITECTURAL PLANS FOR DEMOLITION PAVING LAYOUT, STAIRS, AND RAMPS AROUND THE BUILDING.
 - ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
 - ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL X/C4.X.
 - SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
 - LANDINGS ON ACCESSIBLE ROUTES SHALL NOT EXCEED 2% IN ANY DIRECTION.
 - ALL ACCESSIBLE ROUTES SHALL COMPLY WITH CURRENT ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (ADAAG).
 - ALL ACCESSIBLE WALKWAYS ARE DESIGNED TO NOT REQUIRE HANDRAILS. THEREFORE, RAMPS WITH SLOPES STEEPER THAN 5.0% AND LESS THAN 8.33% SHALL NOT EXCEED 0.5' RISE OR 6.0' LENGTH.

- KEY NOTES**
- RAMP. SEE ARCHITECTURAL.
 - STAIRS. SEE ARCHITECTURAL.
 - SIDEWALK WITH CURB
 - SIDEWALK WITH THICKENED EDGE
 - CONCRETE SIDEWALK
 - WINDOW WELL

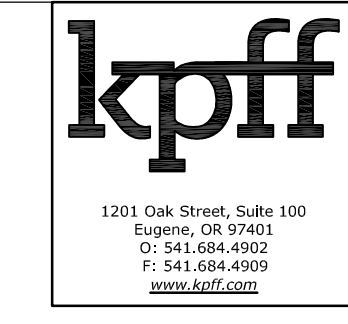
CALLOUT LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
()	SPOT ELEVATION, SHOWN IN () INDICATES EX. ELEV. TO MATCH DESCRIPTION LISTED BELOW. -NO DESCRIPTION MEANS TP OR TG
XX	BOTTOM OF CURB
BC	BOTTOM OF STEP
BS	BOTTOM OF WALL
BW	EXISTING GRADE
EG	FINISHED FLOOR
FF	RIM OF STRUCTURE
RIM	TOP OF CURB
TC	TOP OF GROUND
TG	TOP OF PAVEMENT
TP	TOP WALL
TW	

XXX.XX ← WALKWAY CROSS-SLOPE 2% MAX. AT LANDINGS AWAY FROM ELEVATION CALLOUT IN ANY DIRECTION (UNO)

CONCRETE SIDEWALK

WALKWAY



615 SE JACKSON STREET
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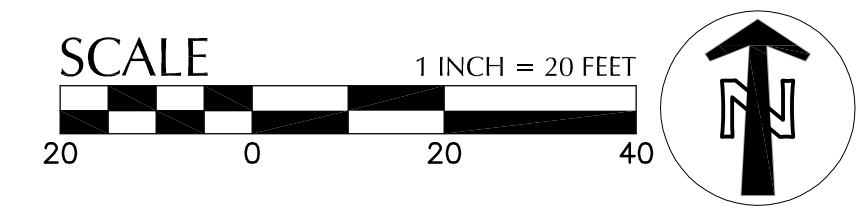
PAUL L BENTLEY Architect A.I.A. P.C.

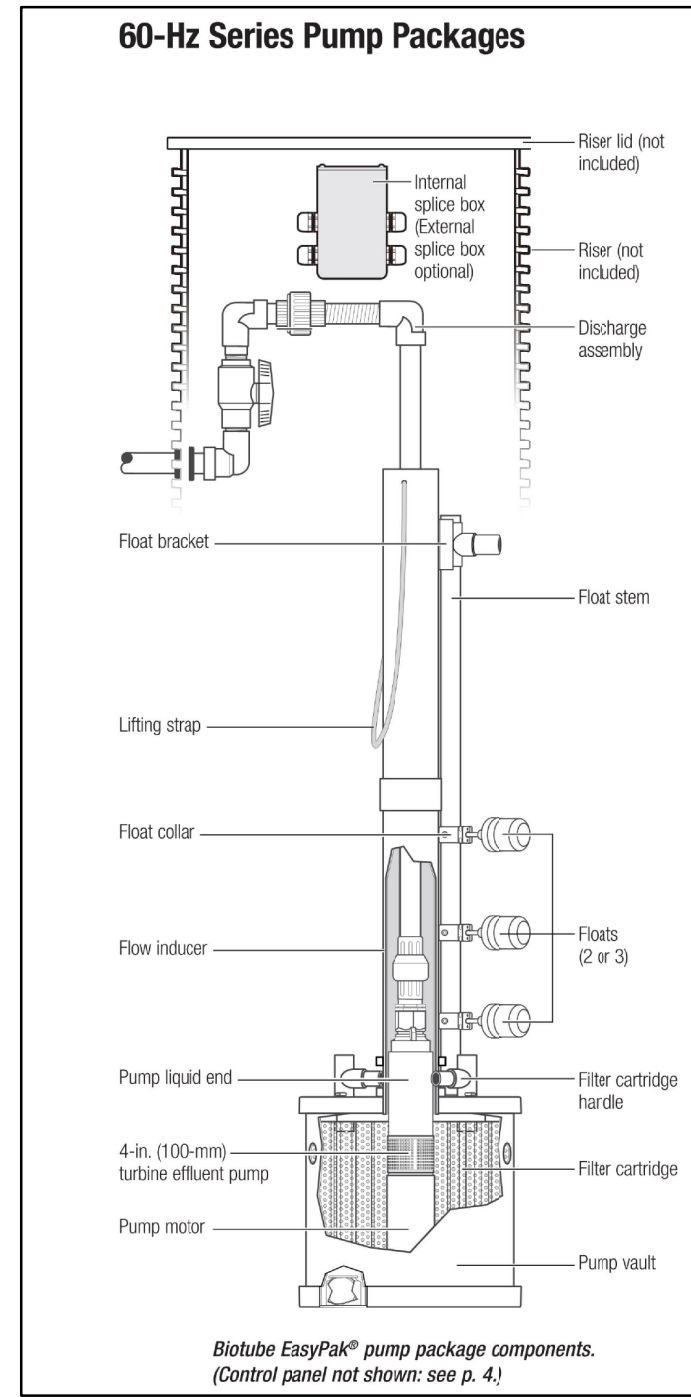
AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:
FERN RIDGE SCHOOL DISTRICT
 88834 TERRITORIAL HWY.,
 ELMIRA, OREGON



DRAWN BY: AB
 CHECKED BY: PM
 DATE: 7-5-16
 TITLE: SITE LAYOUT & GRADING PLAN
 SCALE: N.T.S.

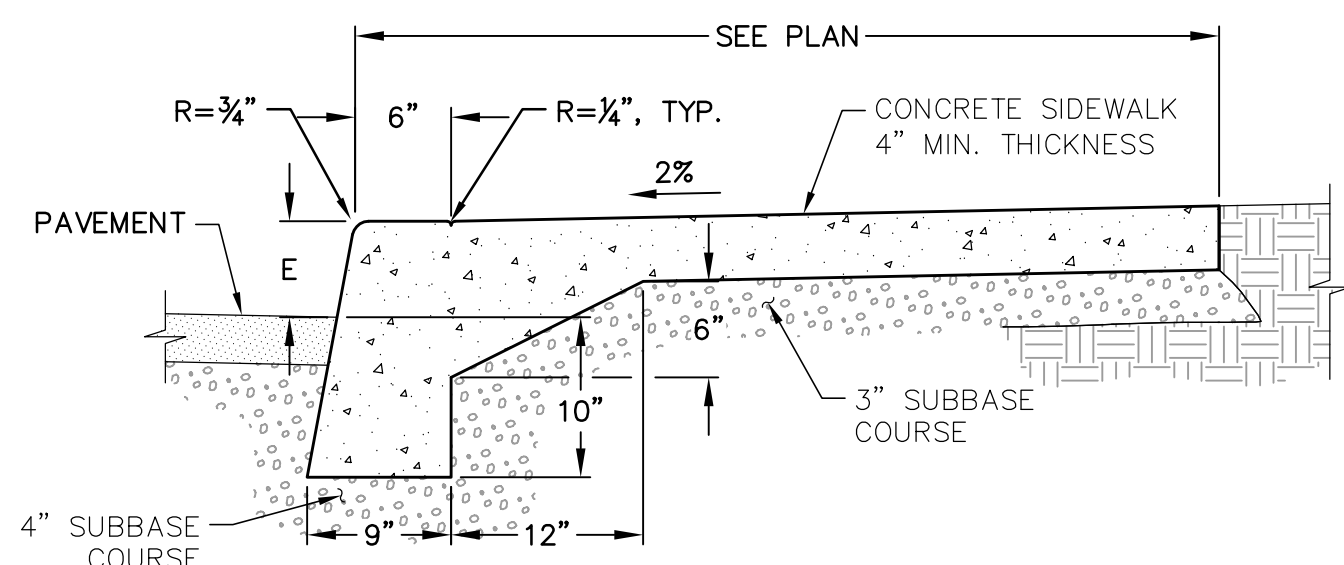
SHEET NO:
C3.0
 3 OF 4





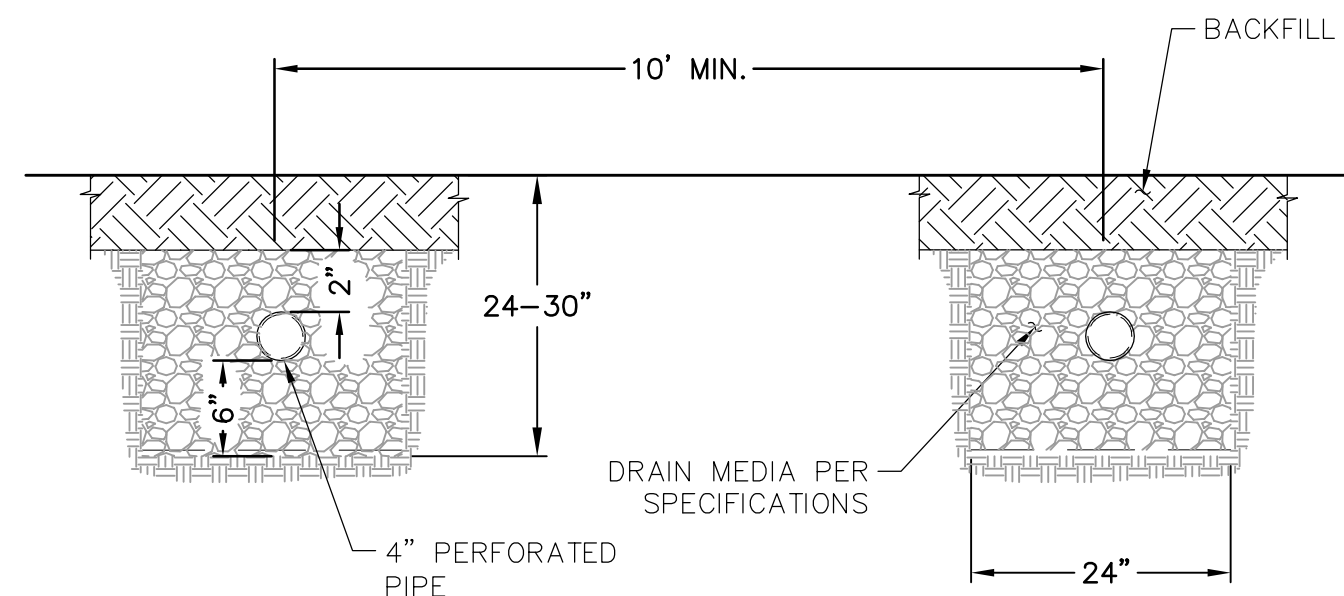
- NOTES:**
1. SHOWN FOR REFERENCE ONLY. COORDINATE WITH ORENCO FOR FULL PUMP PACKAGE.
 2. PROVIDE TWO 50 GPM PUMPS BY ORENCO FOR A DUPLEX SYSTEM.
 3. PROVIDE MVP CONTROL PANEL BY ORENCO. PROVIDE POWER & DATA CONNECTIONS FROM CONTROL PANEL TO PUMP. CONTROL PANEL TO BE LOCATED INSIDE OR ON BUILDING. COORDINATE WITH SCHOOL DISTRICT FOR EXACT LOCATION.
 4. PROVIDE 30" PVC RISER FOR PUMP BASIN.

10 PUMP PACKAGE
SCALE: NTS

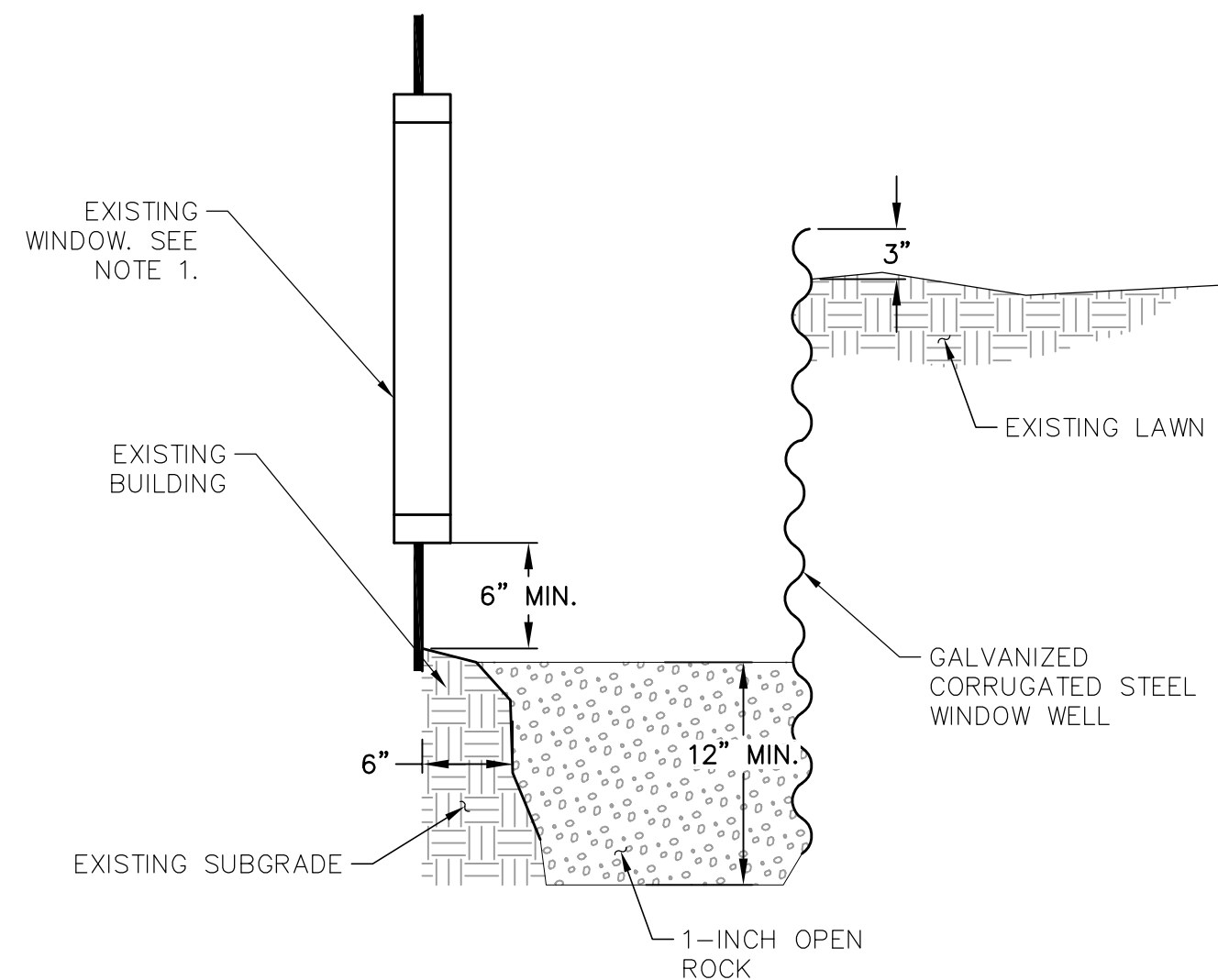


- NOTES:**
1. CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
 2. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING, AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY, UNLESS NOTED OTHERWISE.
 3. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
 4. DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

7 SIDEWALK WITH THICKENED EDGE
SCALE: NTS

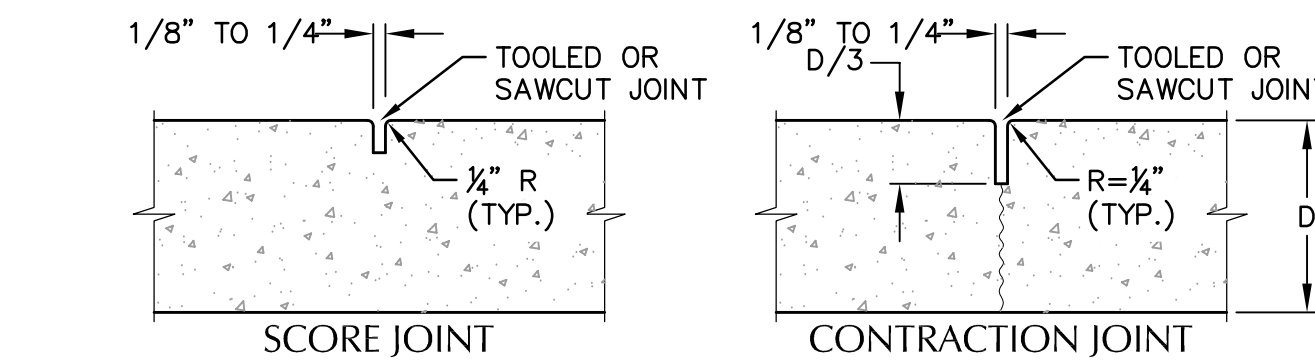


8 SEPTIC DISTRIBUTION TRENCH
SCALE: NTS



- NOTE:**
1. SEE ARCHITECTURAL DETAILS FOR MODIFICATIONS TO BASEMENT WINDOWS.

9 WINDOW WELL
SCALE: NTS



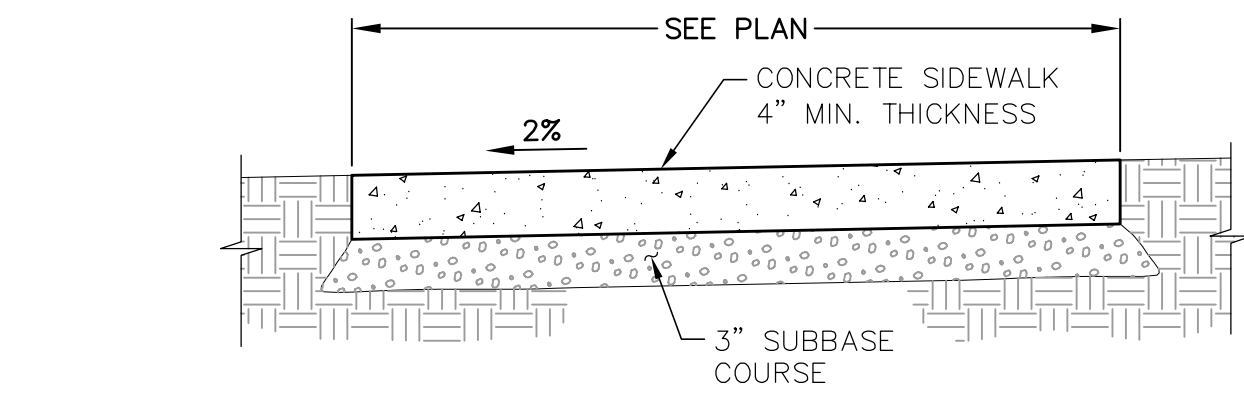
JOINT INTERVALS TABLE

TYPE	SPACING	OR AT...
SCORE	5' TYP.	LOCATIONS SHOWN ON PLANS
CONTRACTION	15' MAX.	END OF RAMPS AND DRIVEWAYS
EXPANSION/ISOLATION	200' *	POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY OR OTHER FIXED OBJECTS

* MONOLITHIC CURB AND SIDEWALK SHALL BE 45' MAX.

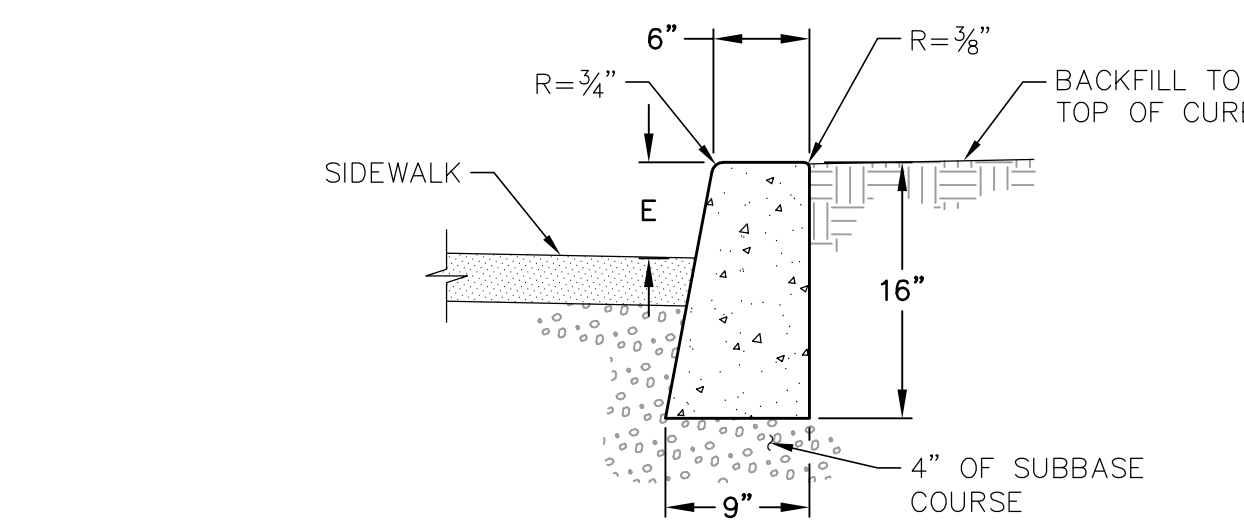
- NOTES:**
1. CONTRACTION JOINTS MAY BE USED IN PLACE OF SCORE JOINTS.
 2. CONSTRUCTION COLD JOINTS MAY BE USED IN PLACE OF CONTRACTION JOINTS.
 3. PROVIDE MEDIUM BROOM FINISH WITH NO TOOL MARKS.

4 SIDEWALK JOINTS
SCALE: NTS



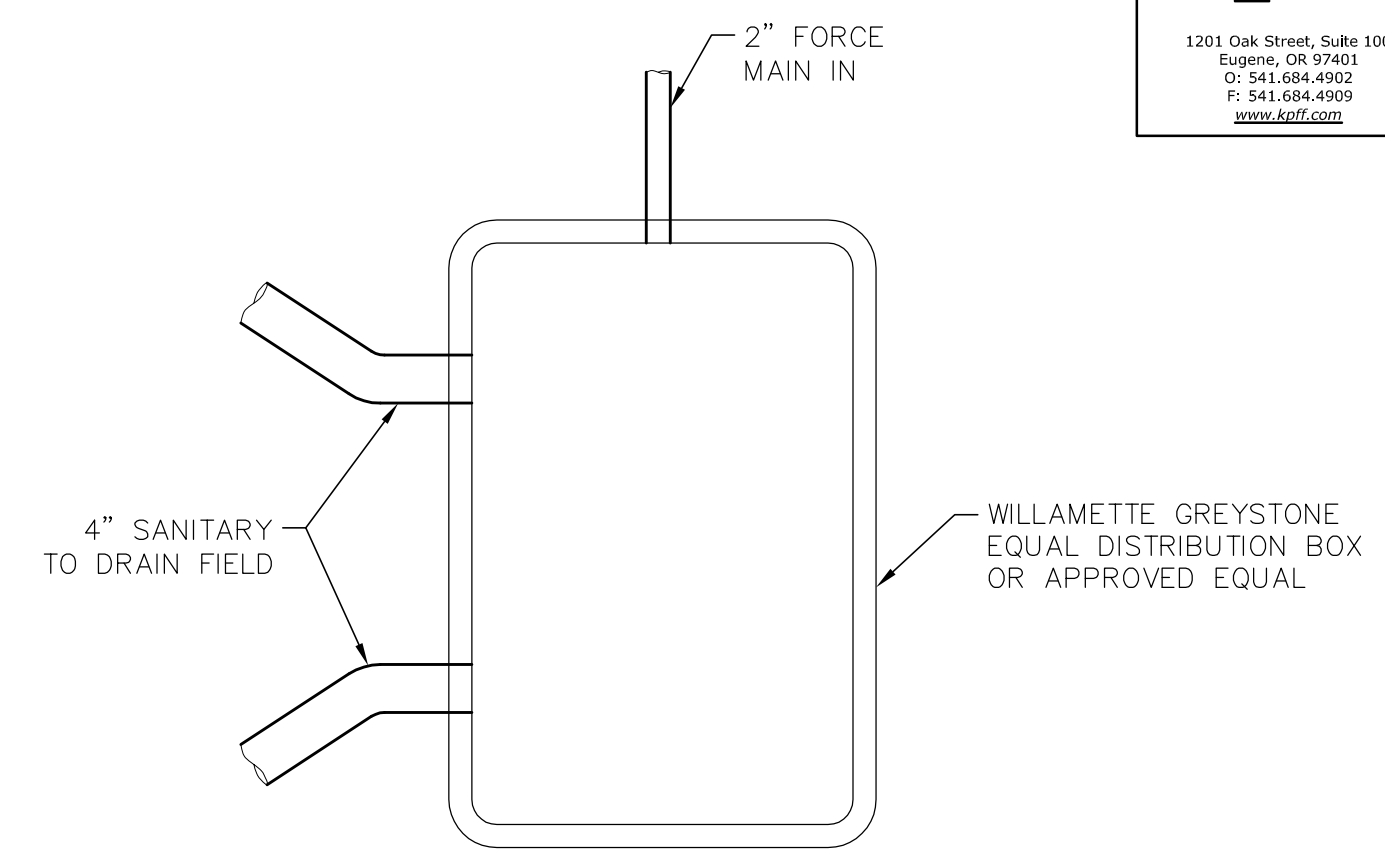
- NOTES:**
1. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING, AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY, UNLESS NOTED OTHERWISE.

5 CONCRETE SIDEWALK
SCALE: NTS

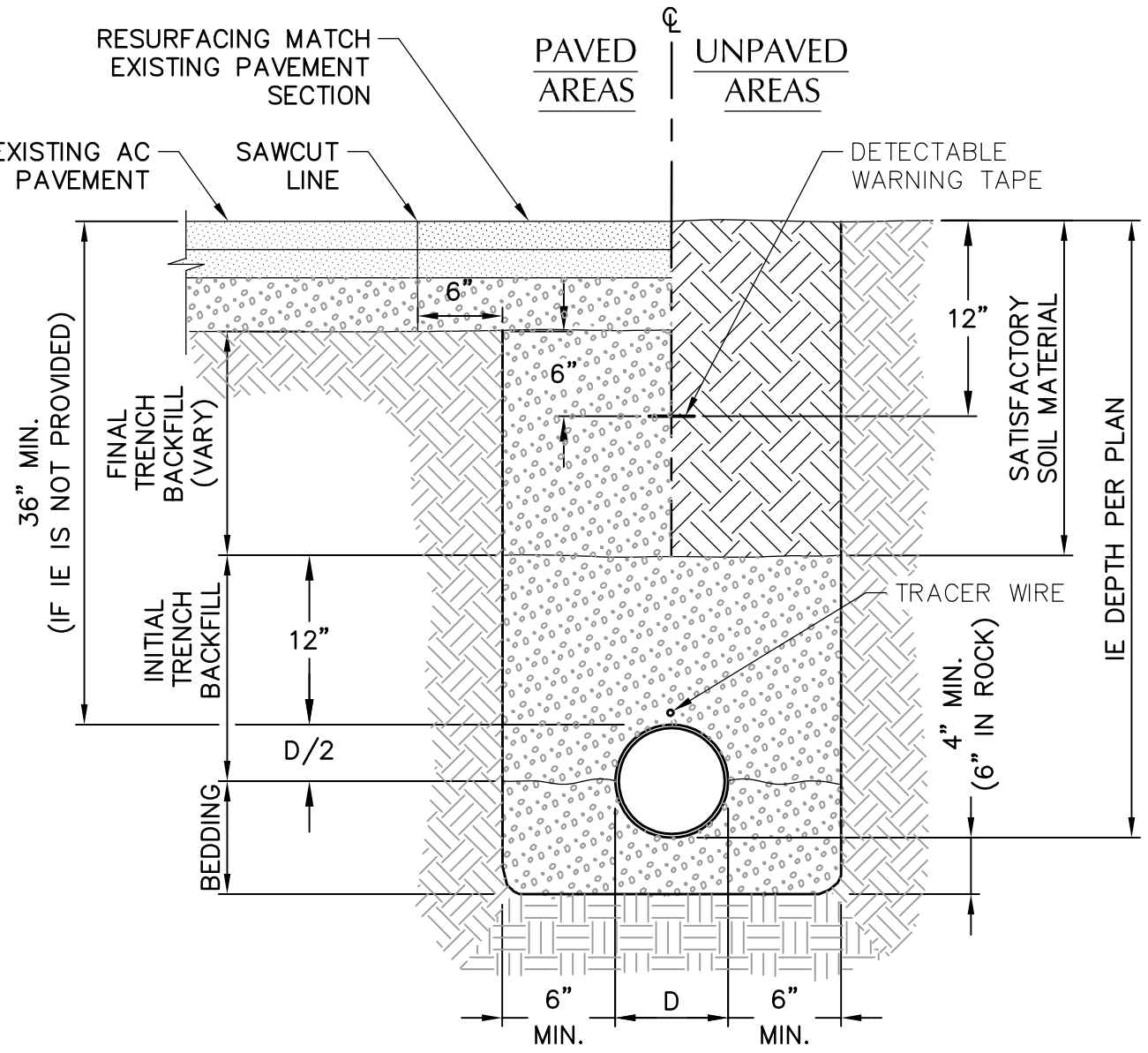


- NOTES:**
1. CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
 2. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
 3. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
 4. DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

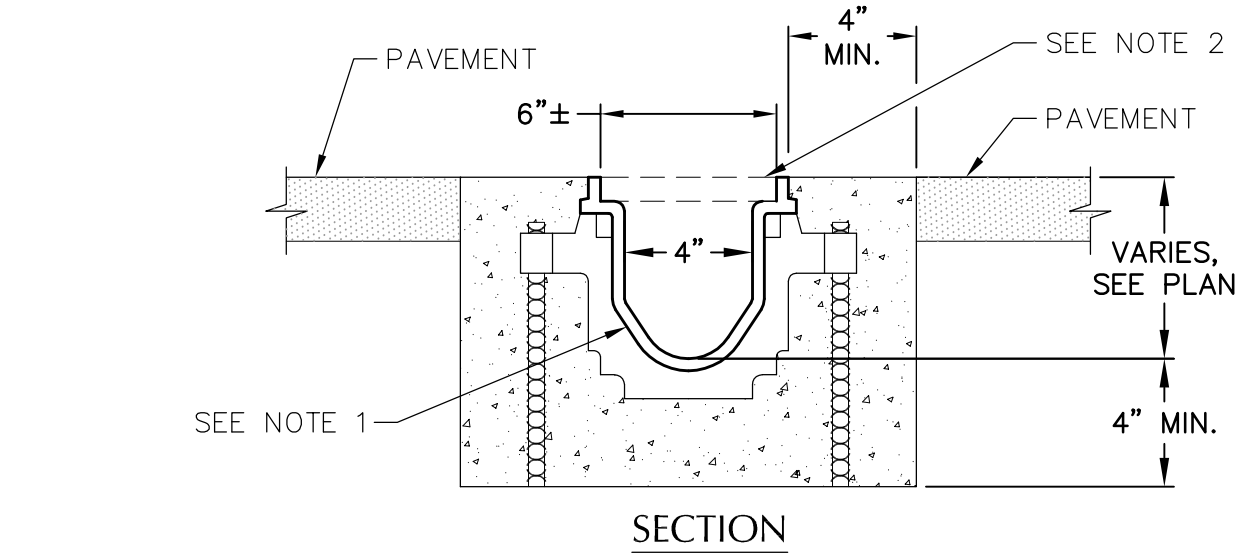
6 CONCRETE CURB WITH SIDEWALK
SCALE: NTS



1 DISTRIBUTION BOX
SCALE: NTS

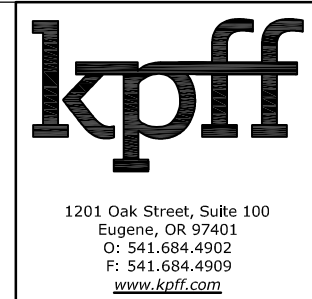


2 TYPICAL PIPE BEDDING AND BACKFILL
SCALE: NTS

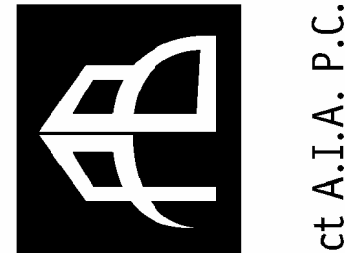


- NOTES:**
1. TRENCH DRAIN SHALL BE PRE-SLOPED 6" WIDE ZURN OR ACO TRENCH DRAIN OR APPROVED EQUAL.
 2. TRENCH DRAINS GRATE SHALL BE LOCKABLE HEAVY DUTY TRENCH GRATE - CLASS C.
 3. TRENCH SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

3 TRENCH DRAIN - 6 INCH WIDE
SCALE: NTS



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AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:
FERN RIDGE SCHOOL DISTRICT
ELMIRA, OREGON
88834 TERRITORIAL HWY.



DRAWN BY:	AB
CHECKED BY:	PM
DATE:	7-5-16
TITLE:	CIVIL DETAILS
SCALE:	N.T.S.

SHEET NO:	C4.0
	4 OF 4

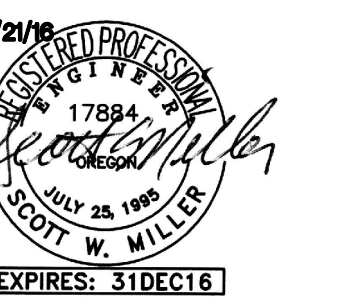


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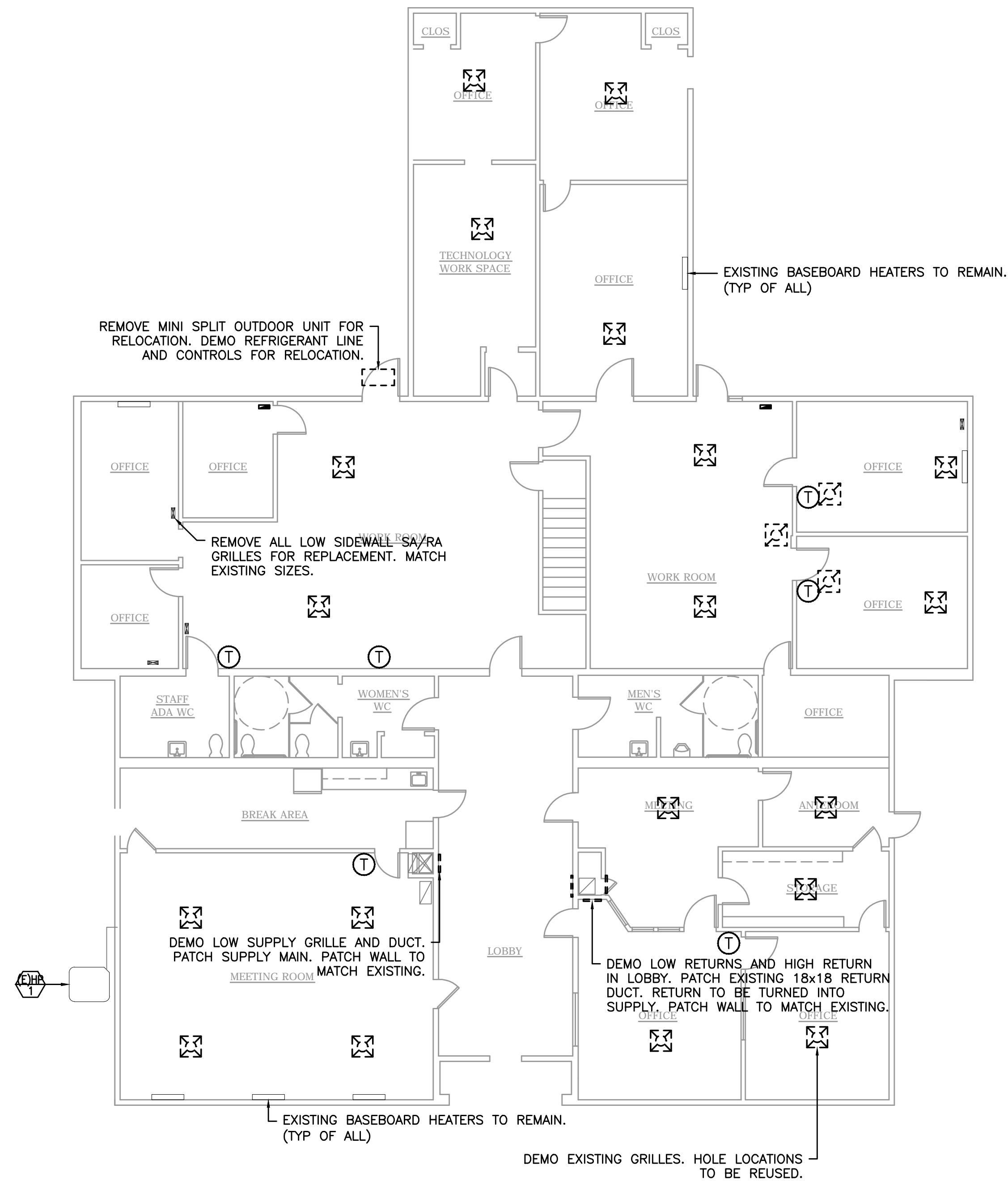
MEDIA Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0548
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 CONTACT: Jose Gonzalez

AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:
FERN RIDGE SCHOOL DISTRICT
 88834 TERRITORIAL HWY. ELMIRA, OR

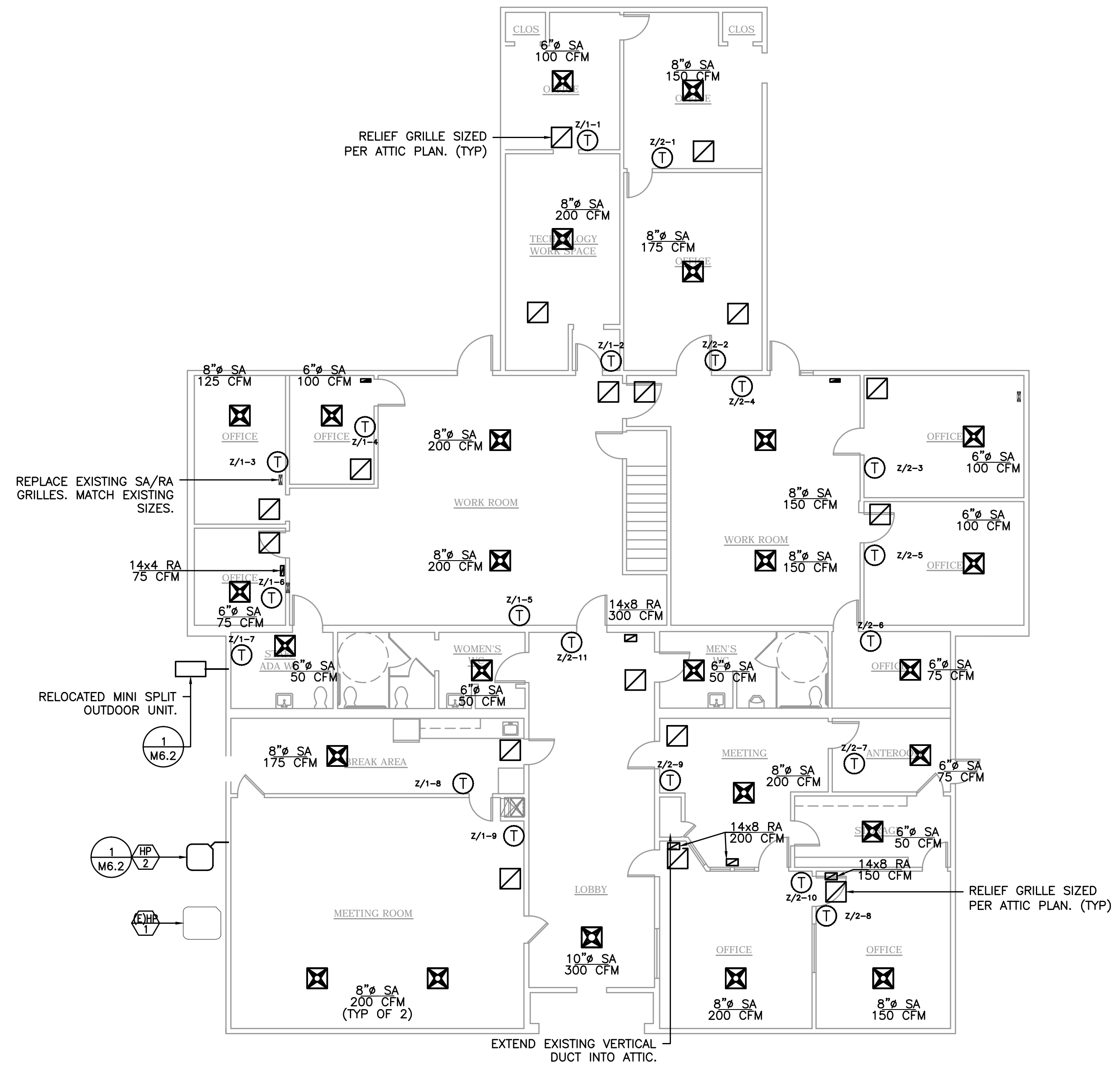


DRAWN BY:	JFG
CHECKED BY:	SWM
DATE:	6-21-16
TITLE:	MECHANICAL FIRST FLOOR PLANS
SCALE:	1/8"=1'-0"

SHEET NO:	M2.2
2 OF 4	



2 MECHANICAL FIRST FLOOR DEMO PLAN
 M2.2 SCALE: 1/8" = 1'-0"



1 MECHANICAL FIRST FLOOR NEW PLAN
 M2.2 SCALE: 1/8" = 1'-0"

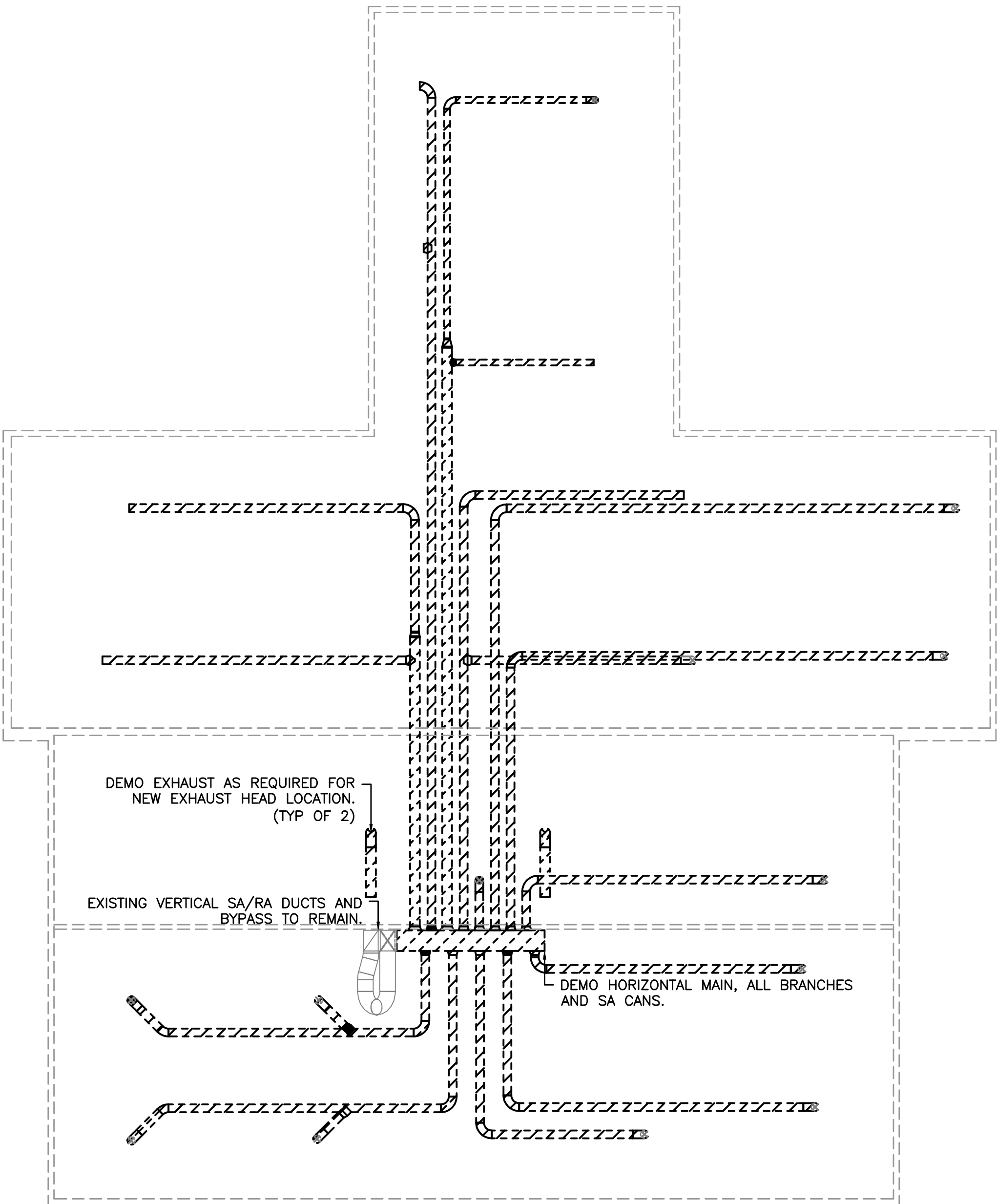
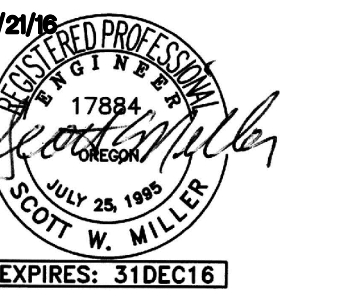


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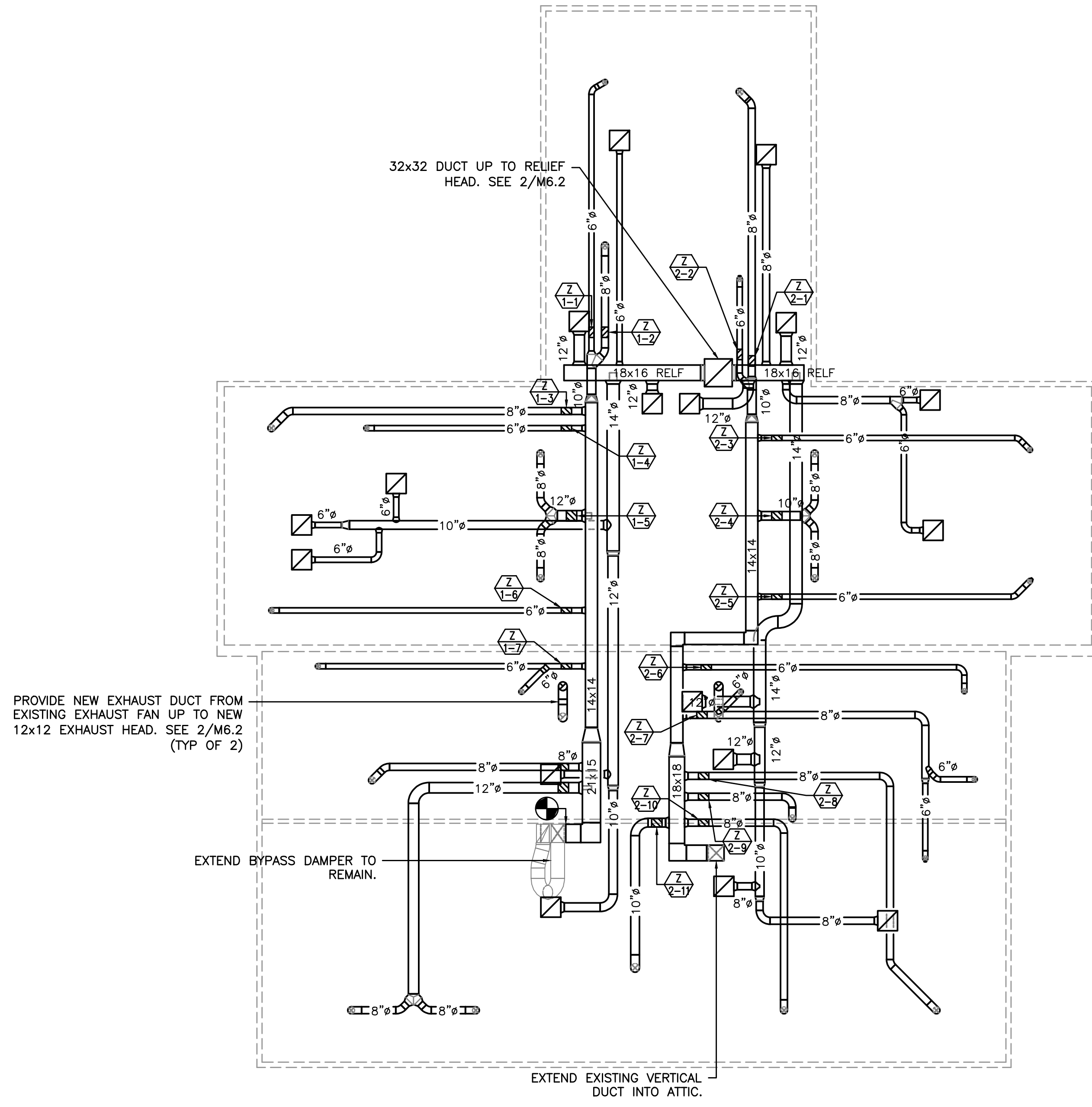
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AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:
FERN RIDGE SCHOOL DISTRICT
 88834 TERRITORIAL HWY. ELMIRA, OR



2 MECHANICAL ATTIC DEMO PLAN
 M2.3 SCALE: 1/8" = 1'-0"



1 MECHANICAL ATTIC NEW PLAN
 M2.3 SCALE: 1/8" = 1'-0"

DRAWN BY:	JFG
CHECKED BY:	SWM
DATE:	6-21-16
TITLE:	MECHANICAL ATTIC PLANS
SCALE:	1/8"=1'-0"

SHEET NO:	M2.3
	3 OF 4

MECHANICAL LEGEND

	..... SUPPLY AIR DIFFUSER	AFF	..... ABOVE FINISH FLOOR
	..... RETURN AIR GRILLE	AHU	..... AIR HANDLING UNIT
	..... EXHAUST AIR GRILLE	B.D.	..... BOTTOM OF DUCT
	..... PERFORATED RETURN AIR PANEL	BHP	..... BRAKE HORSEPOWER
	OR + DIRECTIONAL AIR FLOW	BTU	..... BRITISH THERMAL UNITS
	..... MANUAL VOLUME DAMPER	CFM	..... CUBIC FEET PER MINUTE
	..... SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	CONN.	..... CONNECTION
	..... RETURN AIR DUCT UP & DOWN	CONT.	..... CONTINUATION
	..... EXHAUST AIR DUCT UP & DOWN	CW	..... DOMESTIC COLD WATER
	..... SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	DB	..... DRY BULB
	..... RETURN AIR DUCT UP & DOWN	DIA.	..... DIAMETER
	..... EXHAUST AIR DUCT UP & DOWN	DIST.	..... DISTRIBUTION
	..... VAV TERMINAL UNIT	EA	..... EXHAUST AIR
	..... VT TERMINAL UNIT	EDB	..... ENTERING DRY BULB TEMPERATURE
(E)	..... EXISTING	EWB	..... ENTERING WET BULB TEMPERATURE
	..... CONNECT TO EXISTING	EWT	..... ENTERING WATER TEMPERATURE
① AC-4	..... THERMOSTAT OR TEMP. SENSOR	FF	..... FINISH FLOOR
?	..... NOTE	FIXT.	..... FIXTURE
XX ?	..... EQUIPMENT DESIGNATOR	FPM	..... FEET PER MINUTE
	..... BALL VALVE	FPS	..... FEET PER SECOND
	..... GATE VALVE	FT.	..... FEET / FOOT
	..... CHECK VALVE	GA.	..... GAUGE
	..... BALANCING VALVE	GPM	..... GALLONS PER MINUTE
	..... THERMOMETER	H	..... HEIGHT
	..... DIRECTION OF FLOW	HP	..... HORSEPOWER
	..... PUMP	I.D.	..... INSIDE DIAMETER
	..... STRAINER	IN.	..... INCHES
	..... PRESSURE GAUGE	L	..... LENGTH
	..... PETE'S PLUG	LBS.	..... POUNDS
	..... DOUBLE CHECK ASSEMBLY	LDB	..... LEAVING DRY BULB
	..... PRESSURE REDUCING VALVE	LWB	..... LEAVING WET BULB
	..... UNION	LWT	..... LEAVING WATER TEMPERATURE
	..... 2-WAY CONTROL VALVE	MAX.	..... MAXIMUM
	..... 3-WAY CONTROL VALVE	MBH	..... THOUSANDS OF BTUs PER HOUR
	..... CAP	MIN.	..... MINIMUM
	..... SMOKE DETECTOR	NC	..... NOISE CRITERIA
	..... MOTORIZED DAMPER	N.C.	..... NORMALLY CLOSED
		N.I.M.	..... NOT IN MECHANICAL
		NO.	..... NUMBER
		N.O.	..... NORMALLY OPEN
		O.A.	..... OUTSIDE AIR
		P	..... PERSON
		PSI	..... POUNDS PER SQUARE INCH
		P/T	..... PRESSURE / TEMPERATURE
		R.A.	..... RETURN AIR
		RECT.	..... RECTANGULAR
		REQ'D	..... REQUIRED
		S.A.	..... SUPPLY AIR
		S.P.	..... STATIC PRESSURE
		SQ.	..... SQUARE
		TEMP.	..... TEMPERATURE
		TYP.	..... TYPICAL
		VAV	..... VARIABLE AIR VOLUME
		W	..... WIDTH
		WB	..... WET BULB
		WPD	..... WATER PRESSURE DROP
		φ	..... DIAMETER
			(E) EXISTING
			(D) DEMOLISH
			..... NEW WORK
			HWS (HWS) HEATING WATER SUPPLY
			HWR (HWR) HEATING WATER RETURN
			..... FIRE DAMPER
			..... FIRE / SMOKE DAMPER, SEE 4/M6.11
			..... SMOKE DAMPER
			SEISMIC BRACING
			..... LATERAL BRACING
			..... LONGITUDINAL BRACING
			..... LONGITUDINAL & LATERAL BRACING

VENTILATION AIR SCHEDULE -

ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD (#/1000 SQ. FT.)	NUMBER OF OCCUPANTS	OUTSIDE AIR REQUIREMENT (CFM/P)	OUTSIDE AIR REQUIREMENT (CFM/SQ FT.)	OUTSIDE AIR REQUIRED (CFM)	ZONE OSA (CFM)	SUPPLY AIR (CFM)	PRIMARY OSA FRACTION	RETURN AIR (CFM)	EXHAUST AIR (CFM)	Zone Ventilation Efficiency	Corrected OSA CFM	AIR SYSTEMS			
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Zp		Evz					
OFFICE 1	141	5	1	5	0.06	13	1.0	13	100	0.13	100	0	19	(E)-1			
TECHNOLOGY WORK SPACE 4	245	5	2	5	0.06	25	1.0	25	200	0.12	200	0	36	(E)-1			
OFFICE 5	134	5	1	5	0.06	13	1.0	13	125	0.10	100	0	19	(E)-1			
OFFICE 6	91	5	1	5	0.06	10	1.0	10	100	0.10	150	0	15	(E)-1			
OFFICE 7	98	5	1	5	0.06	10	1.0	10	75	0.14	75	0	15	(E)-1			
WORK ROOM 8	748	5	4	5	0.06	65	1.0	65	400	0.16	400	0	93	(E)-1			
STAFF ADA WC 12	77	0	0	0	0.06	5	1.0	5	50	0.08	0	0	7	(E)-1			
WOMENS WC 13	141	0	0	0	0.06	8	1.0	8	50	0.17	0	0	12	(E)-1			
BREAK AREA 14	218	30	7	7.5	0.18	92	1.0	92	175	0.52	175	0	132	(E)-1			
MEETING ROOM 15	665	25	17	5	0.06	125	1.0	125	400	0.31	400	0	180	(E)-1			
TOTAL	2548		34			367		367	1675		1600	0	528				
								367	1675		1600	0	0.69				
								Vou	Vps				Zs =	0.315043835			
CORRECTED TOTAL OUTDOOR AIR FLOW RATE													528	CFM	Corrected OSA Fraction	Zs =	0.315043835
OFFICE 2	200	5	1	5	0.06	17	1.0	17	150	0.11	275	0	24	(E)-2			
OFFICE 3	271	5	2	5	0.06	26	1.0	26	175	0.15	150	0	38	(E)-2			
WORK ROOM 9	490	5	3	5	0.06	44	1.0	44	300	0.15	200	0	64	(E)-2			
OFFICE 10	193	5	1	5	0.06	17	1.0	17	100	0.17	350	0	24	(E)-2			
OFFICE 11	196	5	1	5	0.06	17	1.0	17	100	0.17	350	0	24	(E)-2			
LOBBY 16	442	10	5	5	0.06	52	1.0	52	300	0.17	250	0	74	(E)-2			
MENS WC 17	128	0	0	0	0.06	8	1.0	8	50	0.15	50	0	11	(E)-2			
OFFICE 18	90	5	1	5	0.06	10	1.0	10	75	0.14	75	0	15	(E)-2			
MEETING 19	198	25	5	5	0.06	37	1.0	37	200	0.18	100	0	53	(E)-2			
ANTEROOM 20	86	10	1	5	0.06	10	1.0	10	75	0.14	75	0	15	(E)-2			
STORAGE 21	110	0	0	0	0.12	13	1.0	13	50	0.26	50	0	19	(E)-2			
OFFICE 22	248	5	2	5	0.06	25	1.0	25	200	0.12	200	0	36	(E)-2			
OFFICE 23	210	5	2	5	0.06	23	1.0	23	150	0.15	150	0	33	(E)-2			
TOTAL	2862		24			298		298	1925		2275	0	429				
								Vou	Vps				Zs =	0.22310847			
CORRECTED TOTAL OUTDOOR AIR FLOW RATE													312	CFM	Corrected OSA Fraction	Zs =	0.22310847

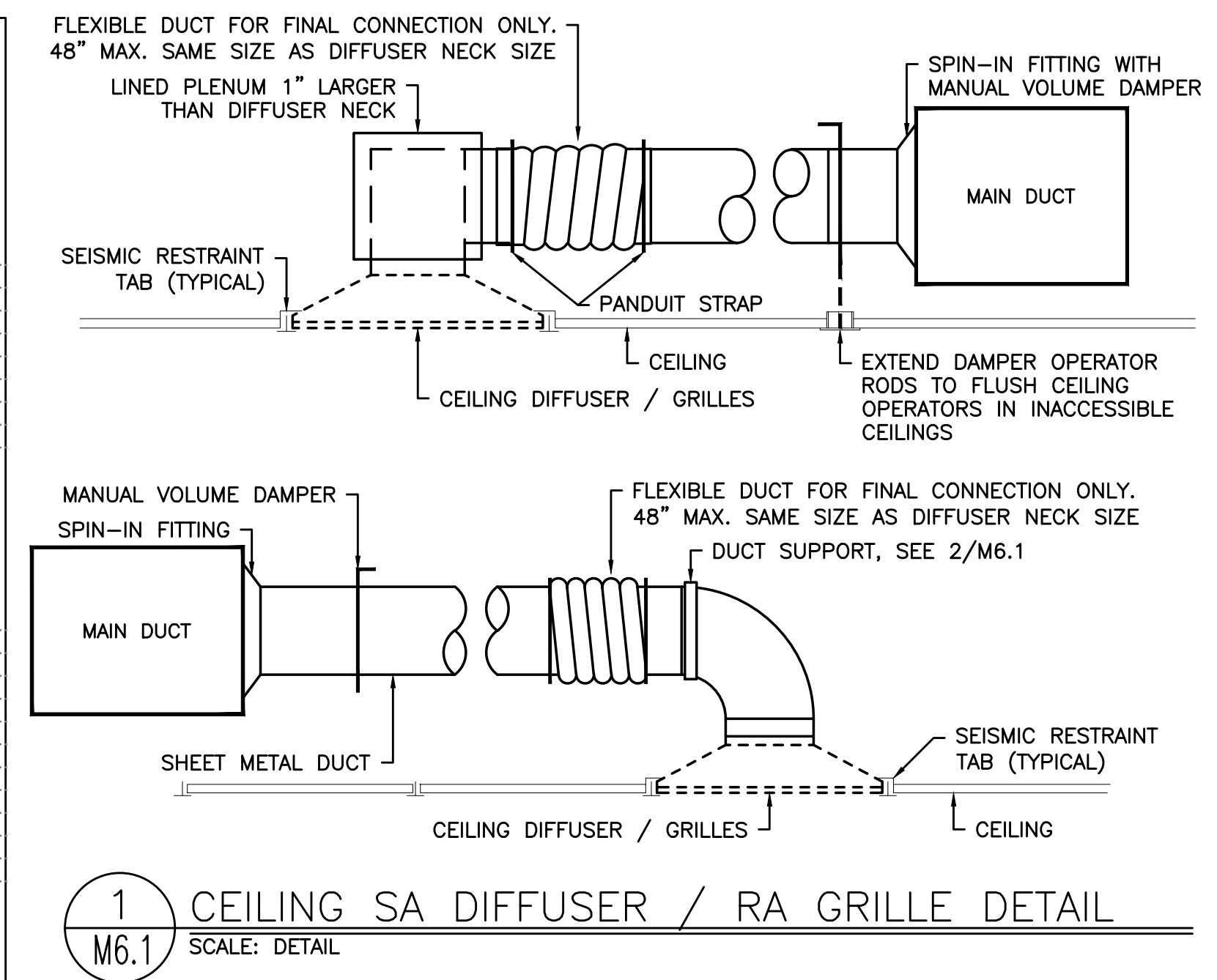
EXHAUST FANS

MARK NUMBER	EF 1
TYPE	INLINE
SYSTEM	BASEMENT
CFM	480
TOTAL SP. (IN H2O)	.25
RPM	1707
MOTOR HP	1/10
CONTROLLED BY	OC SENSOR
INTERLOCK WITH	-
DAMPER TYPE	MOTORIZED
ISOLATION	EXTERNAL
DESIGN WEIGHT (LBS)	60
MAX. SONES	8.5
ELECTRICAL (V/φ) (POWER)	115/1 1/10HP
BASIS OF DESIGN	GREENHECK 80-88-VG

FURNACE WITH HEAT PUMP UNITS

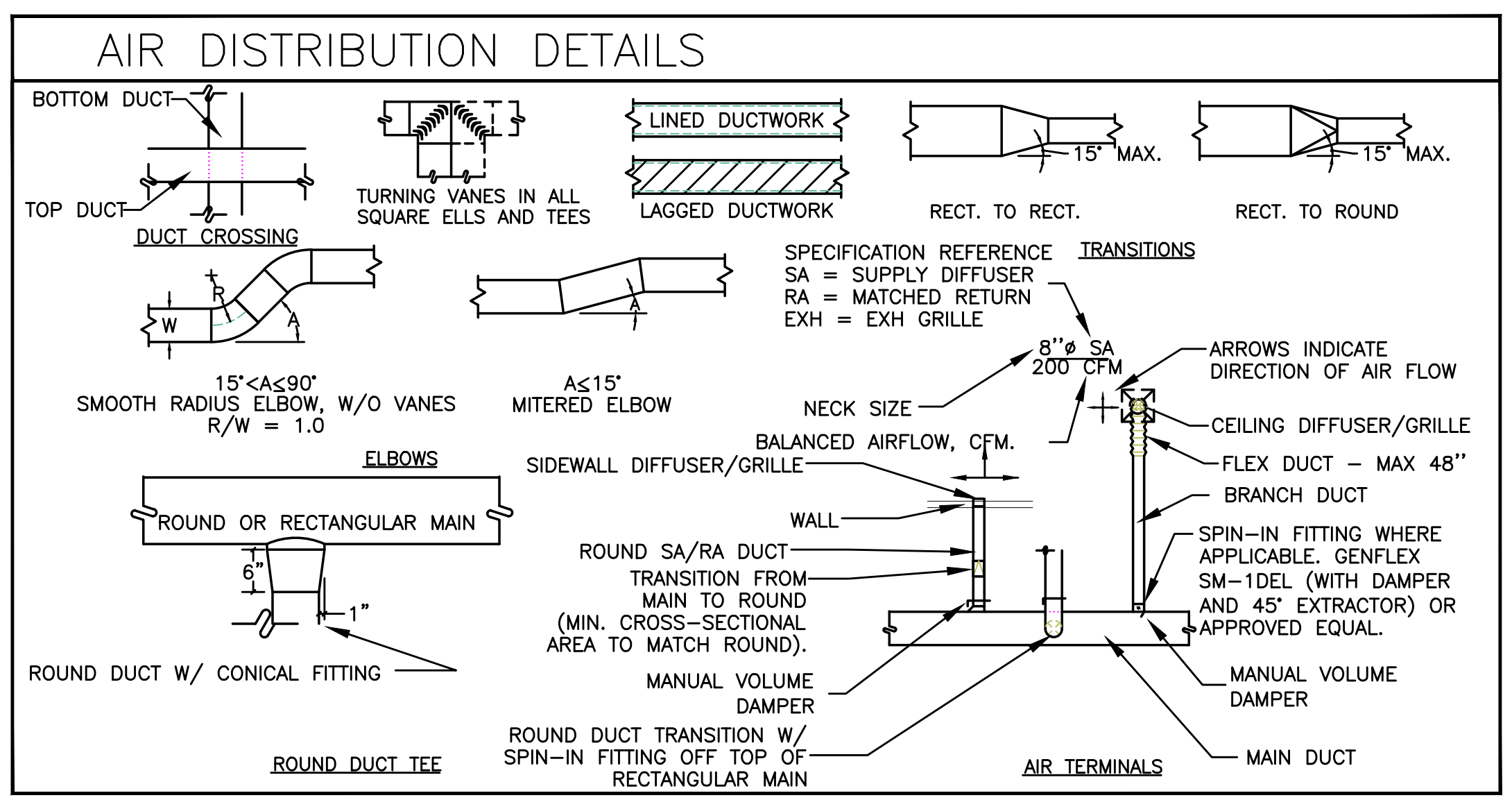
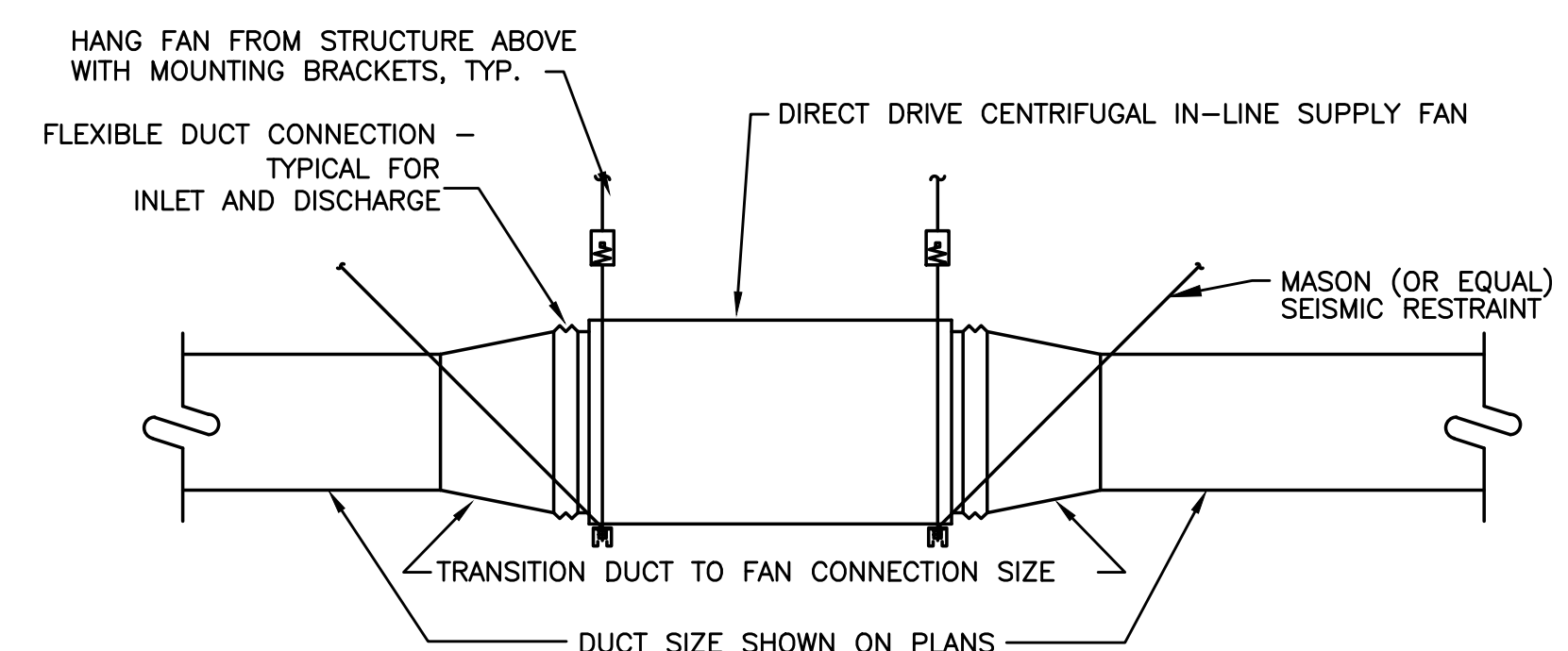
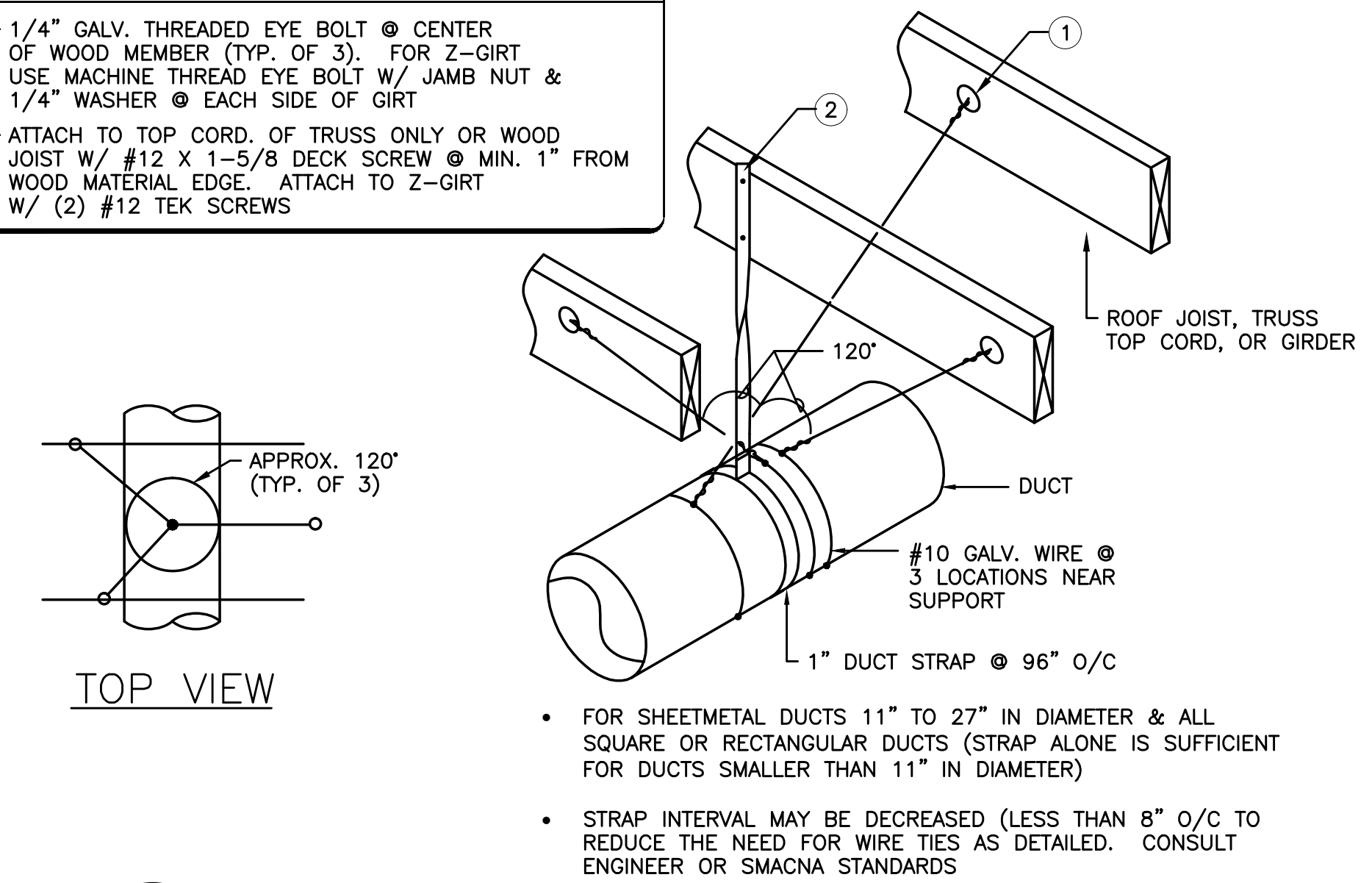
MARK NUMBER	F 2
SYSTEM	WEST
TYPE	CONDENSING
CONFIGURATION	HORIZONTAL
SITE ELEVATION (FT)	400
FAN SECTION	
TOTAL CFM	1800
ECONOMIZER	YES
MIN. OSA (CFM)	320
EXTERNAL SP. ("H2O)	.70
DISCHARGE DIRECTION	LEFT
FILTER TYPE	2" MERV 8
FILTER MEDIA AREA (SQ FT)	5.0
AUX HEATING	
HEATER KW	15
HEATER AMPS	54.2/59.9
HEATER + MOTOR MCA	76.3/83.4
HEATER + MOTOR MOCP	80/90
VOLTAGE-PHASE	208/230-1
HEAT PUMP UNIT	
MARK NUMBER	HP 2
NOMINAL UNIT SIZE (TONS)	5
SENSIBLE (MBH)	60
ENT. EVAP AIR TEMP (DB/WB.)	80/65
AMBIENT AIR (°F)	92
EFFICIENCY (SEER)	14
HSPF	11.5
REFRIGERANT	R-410A
FURNACE BASIS OF DESIGN	CARRIER FV4C
FURNACE WEIGHT INCLUDING COIL (LBS)	210
FURNACE ELECTRICAL (V/φ) (POWER)	115/230-1
HEAT PUMP BASIS OF DESIGN	CARRIER 25HCE
HEAT PUMP WEIGHT (LBS)	250
HEAT PUMP ELECTRICAL (V/φ) (POWER)	208/230-1

NOTES:
1. PROVIDE TXV, CRANKCASE HEATER AND HI LOW SWITCH FOR ALL UNITS.
2. PROVIDE INTEGRAL DISCONNECT FOR ALL FAN COIL UNITS.



2/M6.1 NOTES

- 1/4" GALV. THREADED EYE BOLT @ CENTER OF WOOD MEMBER (TYP. OF 3). FOR Z-GIRT USE MACHINE THREAD EYE BOLT W/ JAMB NUT & 1/4" WASHER @ EACH SIDE OF GIRT
- ATTACH TO TOP CORD. OF TRUSS ONLY OR WOOD JOIST W/ #12 X 1-5/8 DECK SCREW @ MIN. 1" FROM WOOD MATERIAL EDGE. ATTACH TO Z-GIRT W/ (2) #12 TEK SCREWS



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AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:

FERN RIDGE SCHOOL DISTRICT

88834 TERRITORIAL HWY. ELMIRA, OR

6/21/16
REGISTERED PROFESSIONAL
17894
SCOTT W. MILLER
EXPIRES: 3/30/21

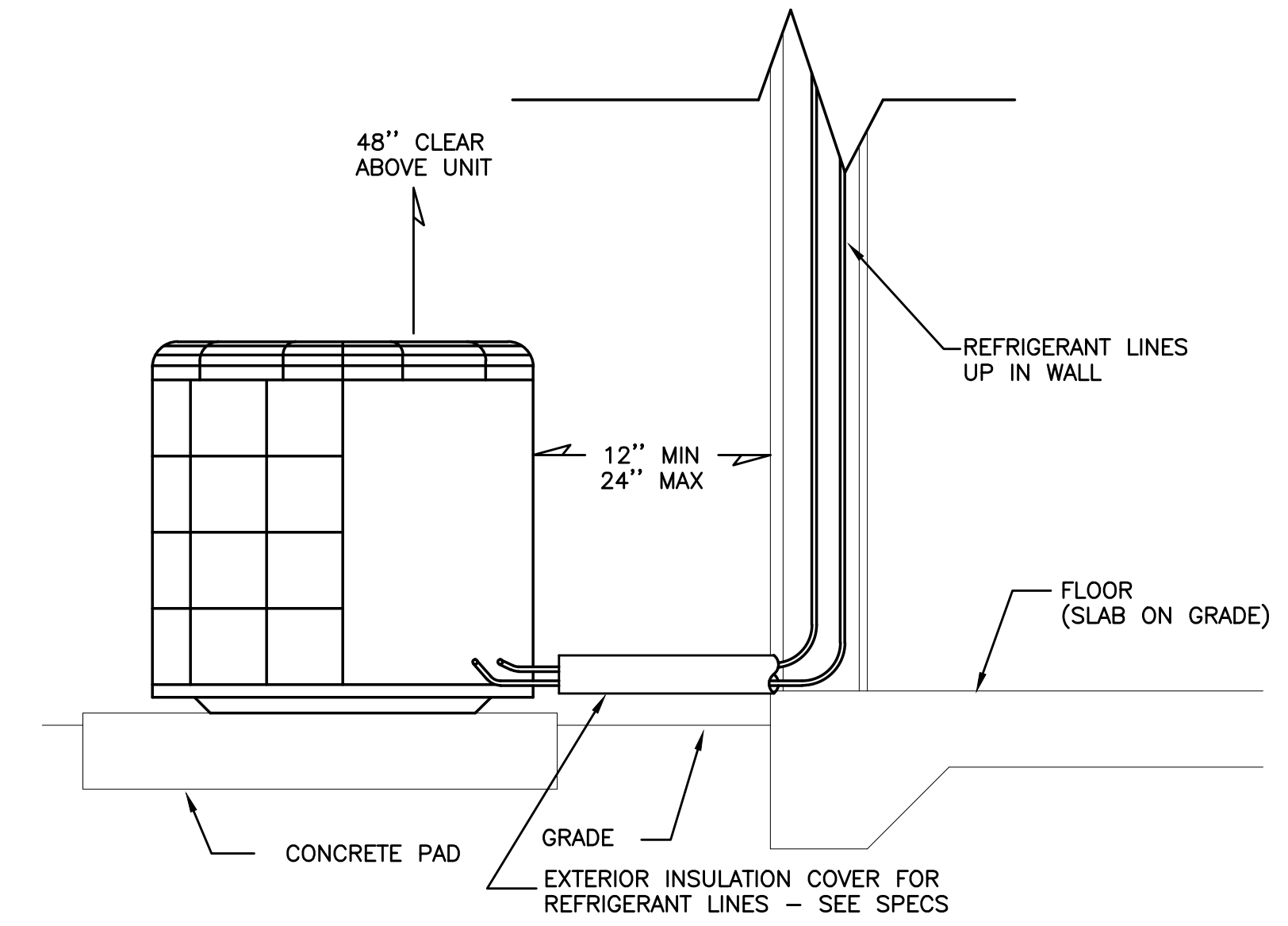
DRAWN BY:	JFG
CHECKED BY:	SWM
DATE:	6-21-16
TITLE:	MECHANICAL SCHEDULES AND DETAILS
SCALE:	1/8"=1'-0"

SHEET NO:
M6.1
4 OF 4

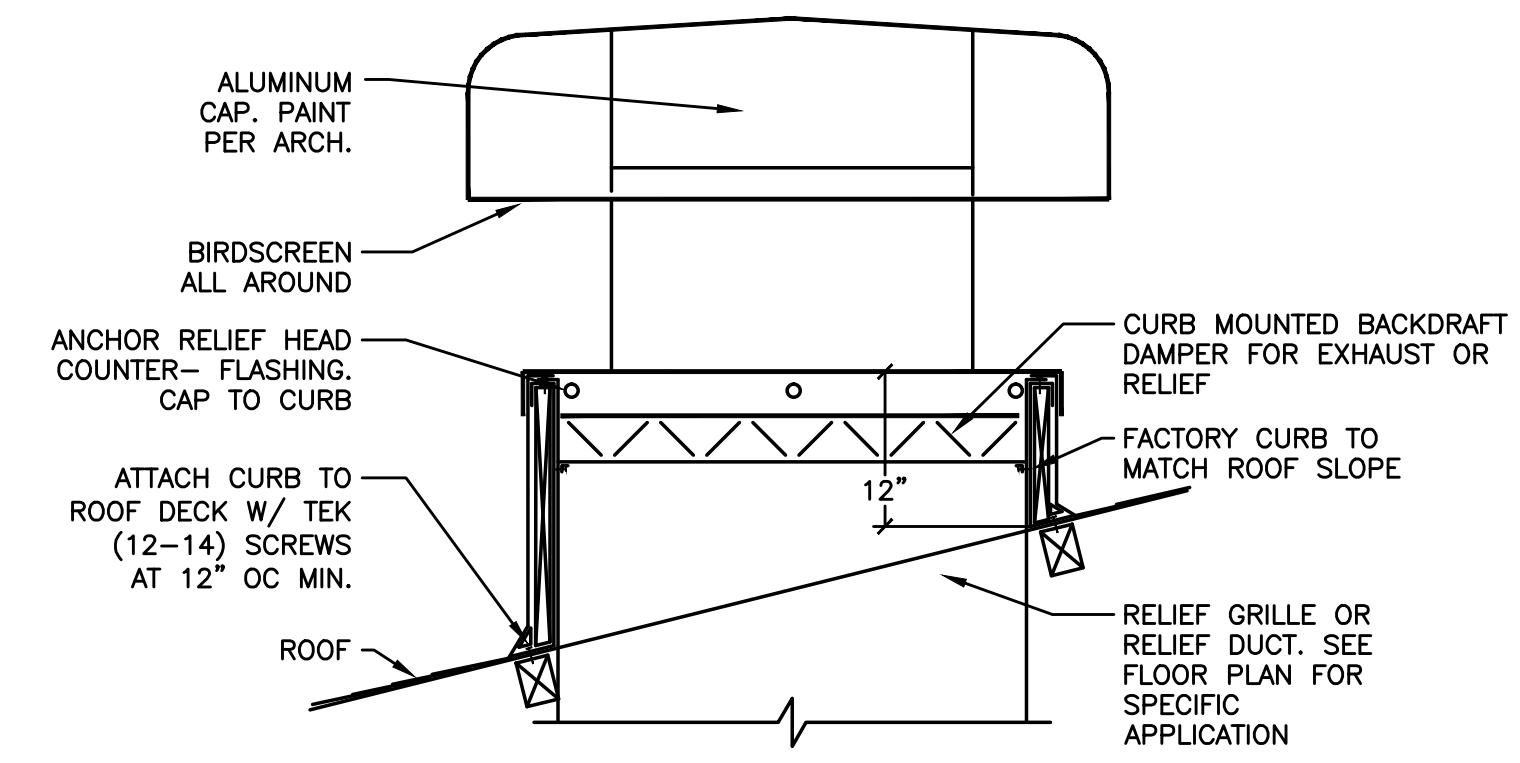


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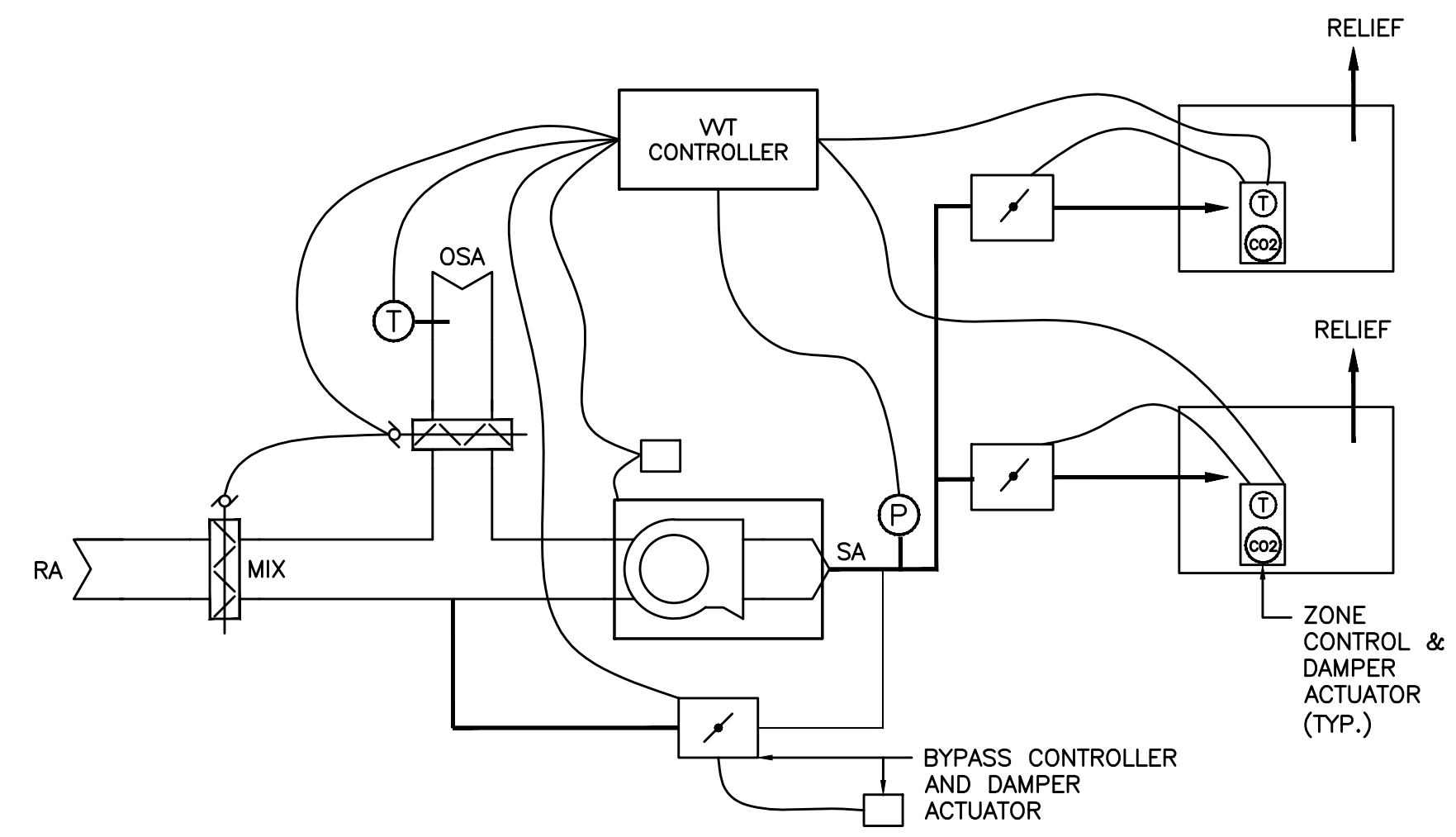
PAUL L BENTLEY Architect A.I.A. P.C.



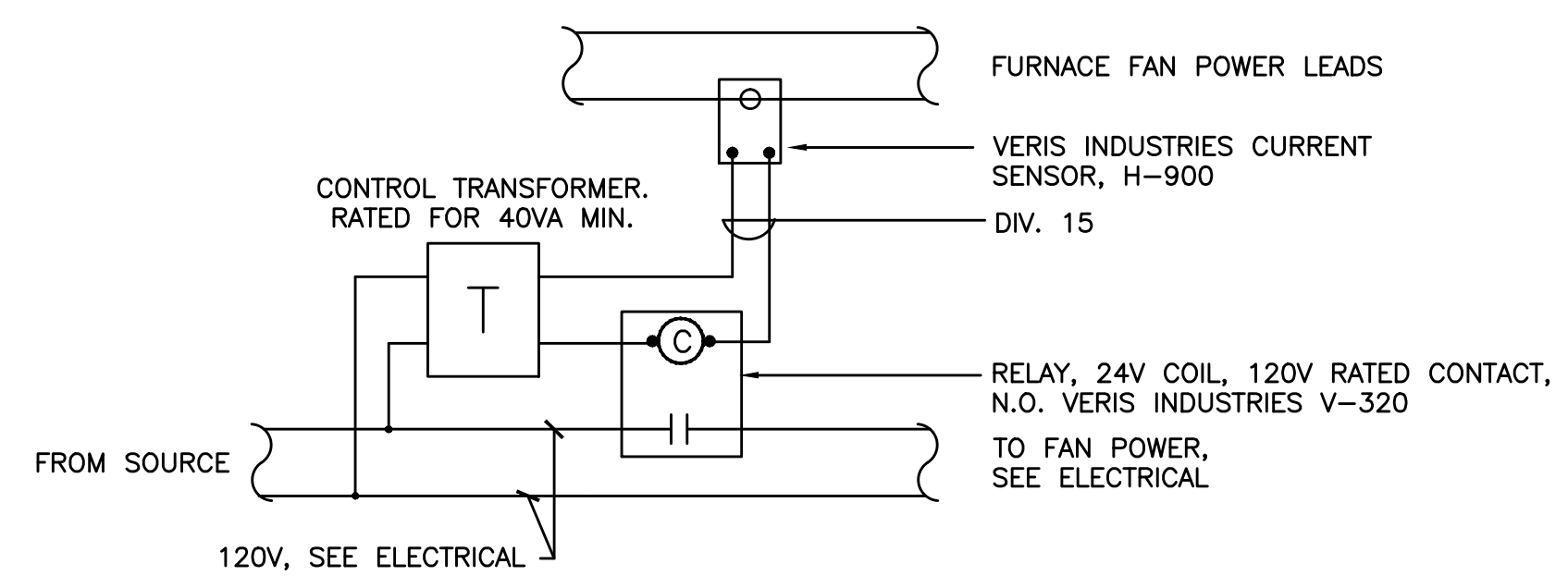
1 HP INSTALLATION
 M6.2 DETAIL



2 INTAKE/RELIEF/EXHAUST HEAD
 M6.2 SCALE: DETAIL



9 VVT CONTROL
 M6.1 SCALE: DETAIL



8 EXHAUST FAN/DAMPER CONTROL
 M6.1 SCALE: DETAIL

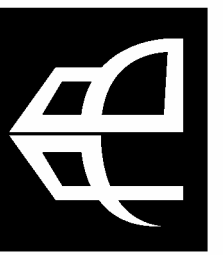
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AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:
FERN RIDGE SCHOOL DISTRICT
 88834 TERRITORIAL HWY. ELMIRA, OR

6/21/16
 REGISTERED PROFESSIONAL ENGINEER
 17894
 JULY 25 1989
 SCOTT W. MILLER
 EXPIRES: 3/1DEC16

DRAWN BY: JFG
 CHECKED BY: SWM
 DATE: 6-21-16
 TITLE: MECHANICAL DETAILS
 SCALE: 1/8"=1'-0"

SHEET NO:
M6.2
 4 OF 4



615 SE JACKSON STREET
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PAUL@PAULBENTLEYARCHITECT.COM

PAUL L BENTLEY Architect A.I.A. P.C.

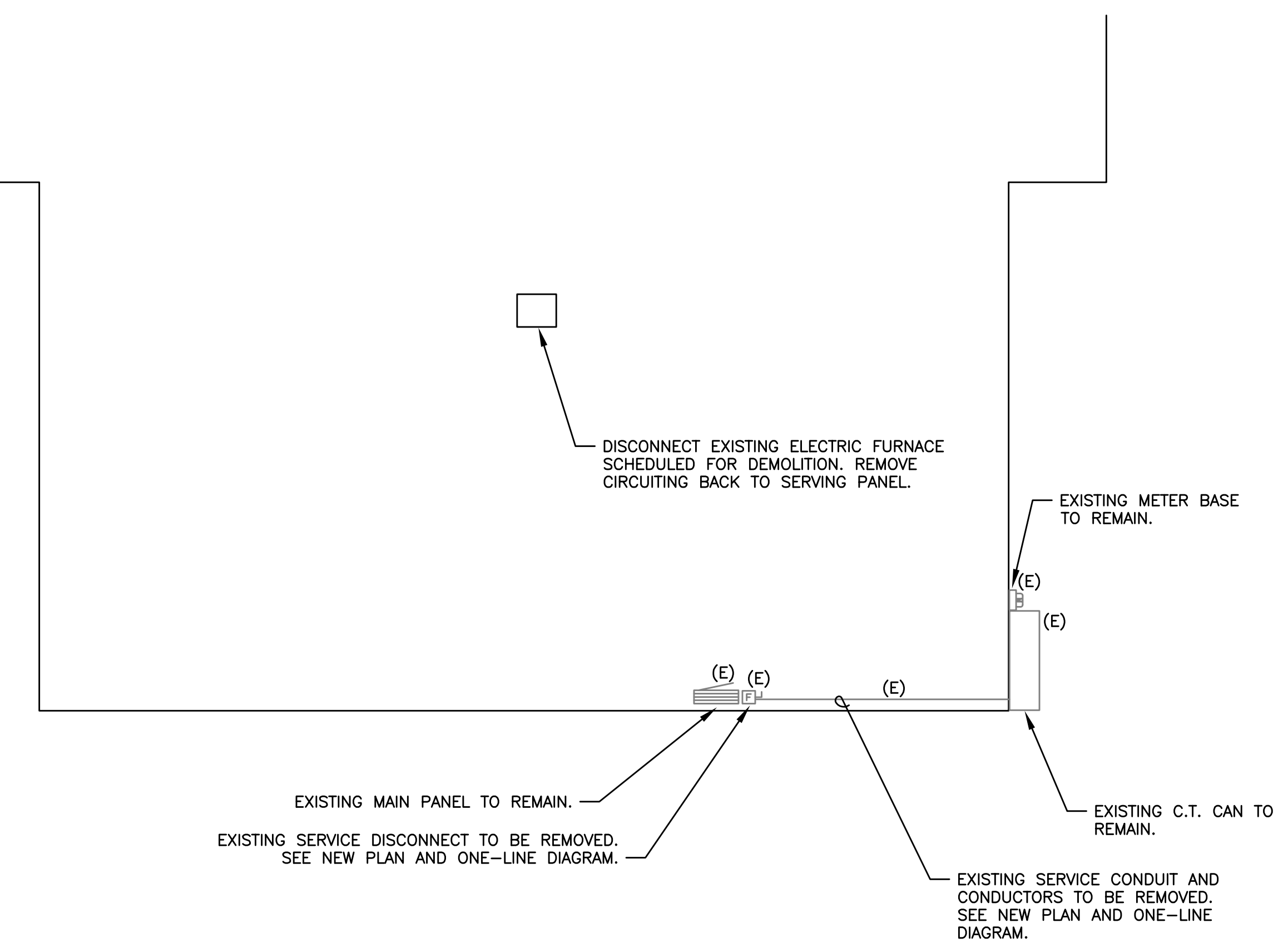
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AN EXTERIOR REMODEL/UPGRADE FOR THE DISTRICT OFFICE BUILDING AT:
FERN RIDGE SCHOOL DISTRICT
ELMIRA, OR
88834 TERRITORIAL HWY.

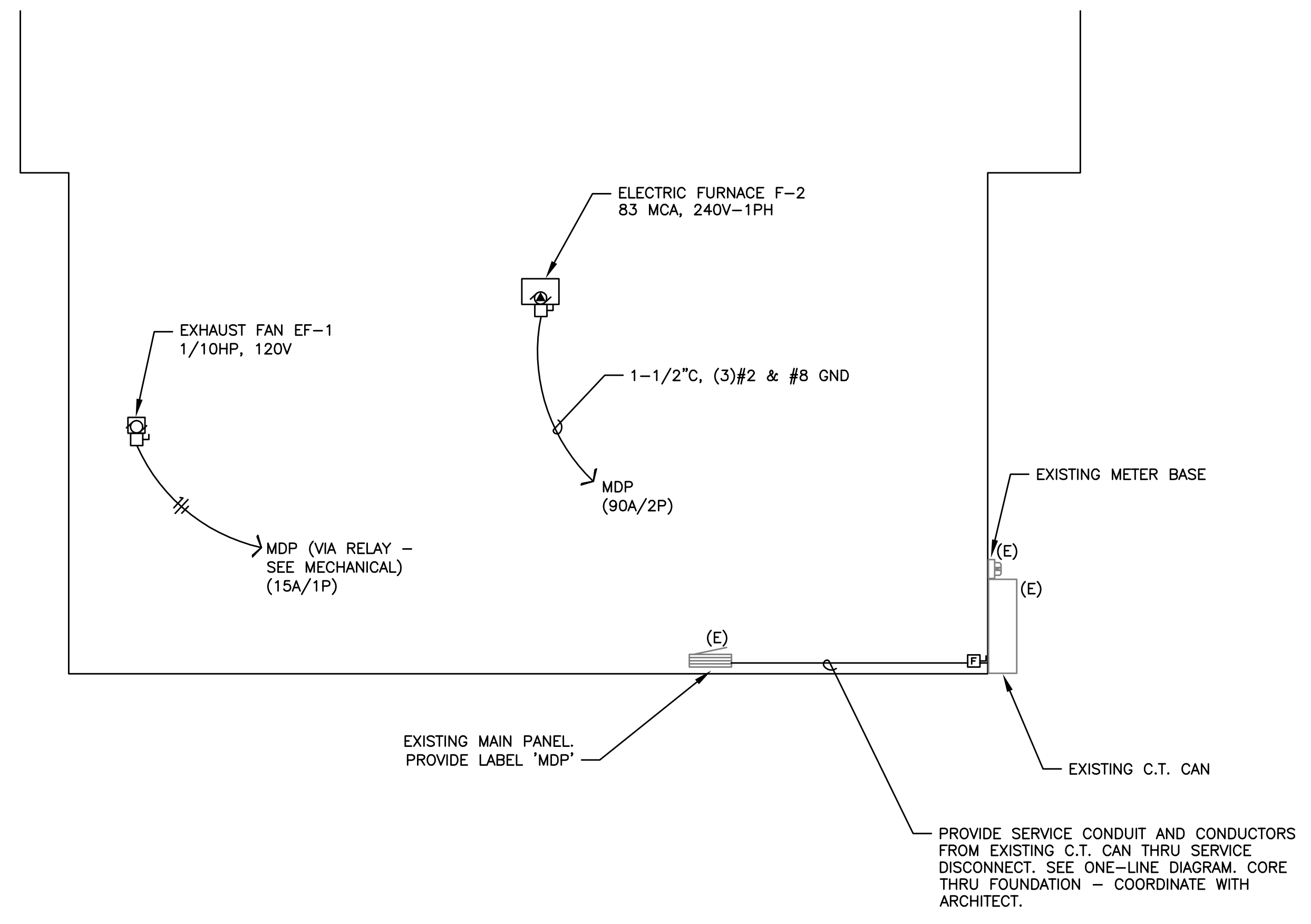


DRAWN BY:	RLC
CHECKED BY:	RLC
DATE:	6-21-16
TITLE:	BASEMENT PLAN ELECTRICAL
SCALE:	1/8" = 1'-0"

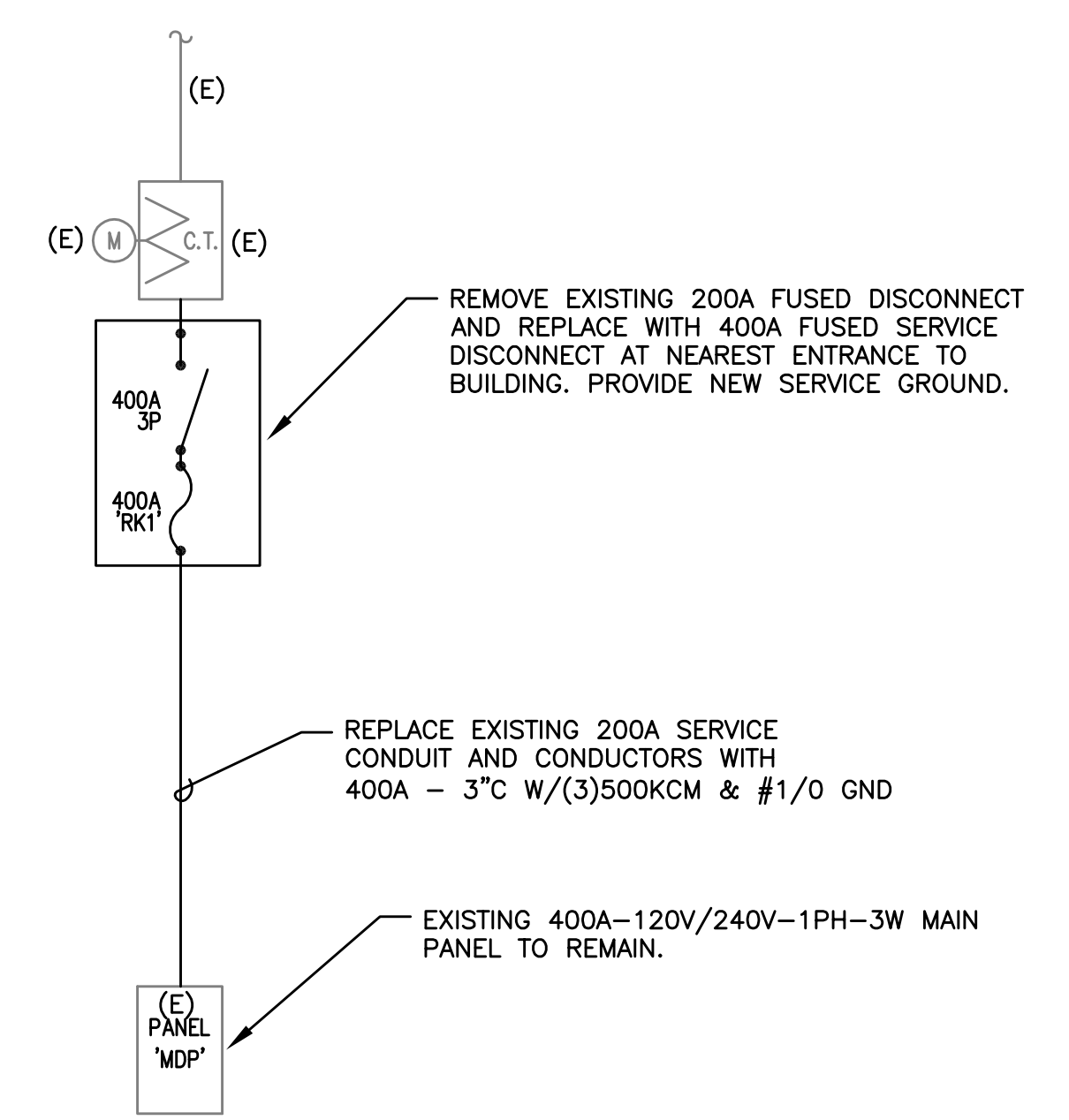
SHEET NO:	E1.1
	1 OF 4



1 BASEMENT PLAN - ELECTRICAL DEMO
E1.1 1/8" = 1'-0"

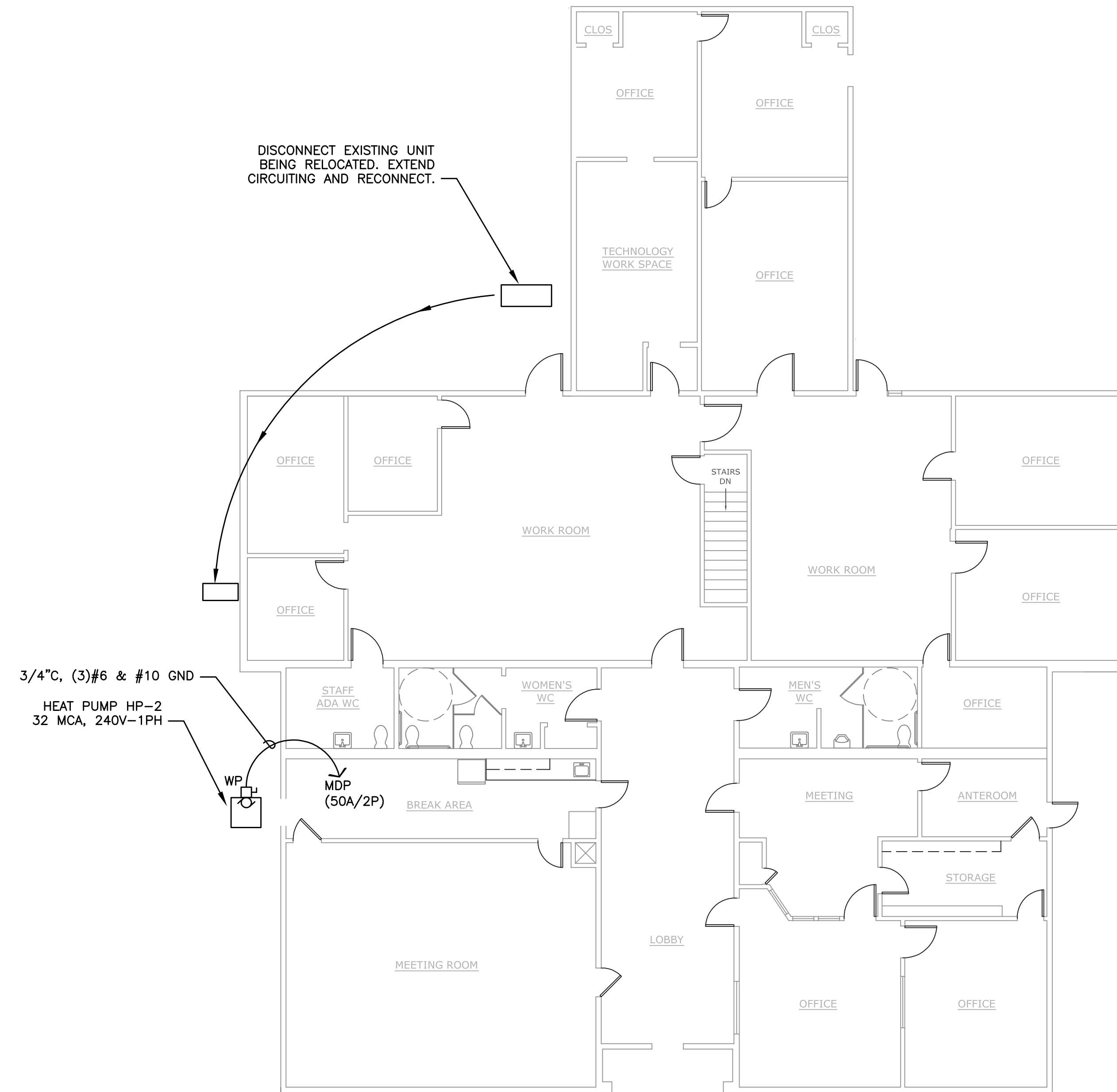


2 BASEMENT PLAN - ELECTRICAL
E1.1 1/8" = 1'-0"

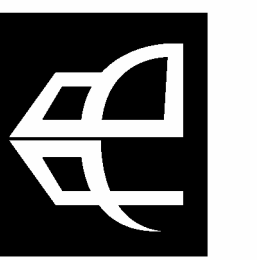


3 ONE-LINE DIAGRAM
E1.1 120V/240V-1PH-3W

LOAD SUMMARY - 400A SERVICE	
(E) PEAK DEMAND	38 KVA @ 1.25 = 48 KVA
REMOVED ELECT HTR	-19 KVA
ADDED ELECT HTR & HP	27 KVA
TOTAL LOAD	= 56 KVA (233A @ 240V-1PH)



1 FIRST FLOOR PLAN - ELECTRICAL
 E2.1 1/8" = 1'-0"



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AN EXTERIOR REMODEL/UPGRADE FOR THE
 DISTRICT OFFICE BUILDING AT:
FERN RIDGE SCHOOL DISTRICT
 88834 TERRITORIAL HWY. ELMIRA, OR



DRAWN BY:	RLC
CHECKED BY:	RLC
DATE:	6-21-16
TITLE:	1st FLOOR PLAN ELECTRICAL
SCALE:	1/8" = 1'-0"

SHEET NO:	E2.1
1 OF 4	