

# PHASE 11 WATER SYSTEM IMPROVEMENTS CONTRACT 5 - NEW OFFICE BUILDING

## FOR RATTLESNAKE RIDGE WATER DISTRICT CARTER COUNTY, KENTUCKY

### RECORD DRAWINGS

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWING SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.

BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020

### BOARD MEMBERS

BILL GILBERT - CHAIRMAN  
RANDY STEAGALL  
GEORGE WELLS  
STEVE ISON  
MIKE COPLEY

### GENERAL MANAGER

W.C. GILBERT

### STRUCTURAL CONSULTANT

Brown & Kubican, PSC.  
Contact: Dan Kubican, PE  
2224 Young Drive  
Lexington, Kentucky 40505  
859-543-0933

### MECHANICAL CONSULTANT

THORUP CONSULTING CO.  
Contact: Chris Thorup, PE  
1324 Hunter Drive  
Lancaster, Kentucky 40444  
859-548-3810

### ELECTRICAL CONSULTANT

INTERPHASE ELECTRICAL SPECIALTIES INC.  
Contact: Kelly T. Graves, PE  
P. O. Box 55486  
Lexington, Kentucky 40555

859-252-3501

### LOCATION MAP



PROJECT NO. 15036

NOVEMBER 2017

### DRAWING INDEX

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  - A6.1 DOOR FRAME & HARDWARE SCHEDULES, & DETAILS  
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  - E1.1 ELECTRICAL LIGHTING AND, GEN. POWER & SYSTEMS PLAN

### BUILDING STATISTICS

USE GROUP: B (BUSINESS)  
CONST. TYPE: 5B, COMBUSTIBLE / UNPROTECTED  
ALLOWABLE AREA PER FLOOR (A-3) (TABLE 503 2012 IBC):  
9,000 SQUARE FEET

BUILDING HEIGHT: ACTUAL IS ONE STORY

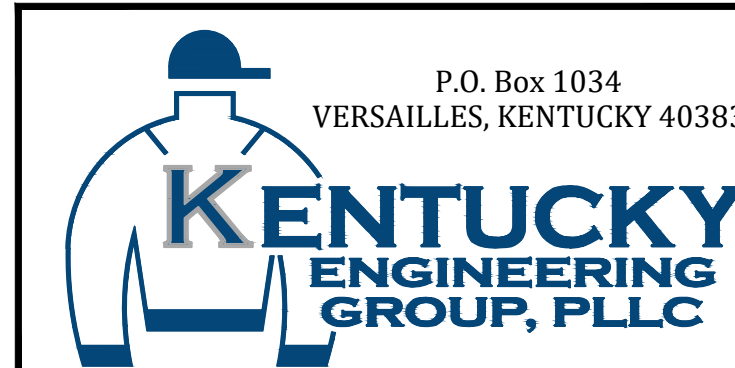
AREA TABULATION	
AREA	1ST FLOOR
EXISTING	2400 S.F.
NEW	2579 S.F.
TOTAL:	4979 S.F.

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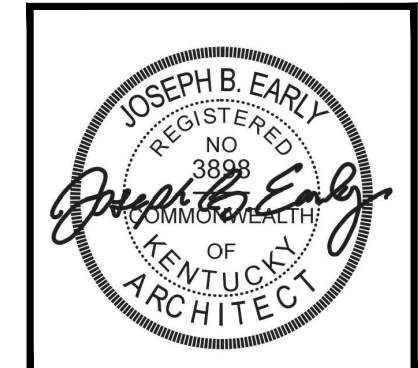
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PHASE 11 WATER SYSTEM IMPROVEMENTS  
CONTRACT 5 - NEW OFFICE BUILDING  
FOR THE  
RATTLESNAKE RIDGE WATER DISTRICT

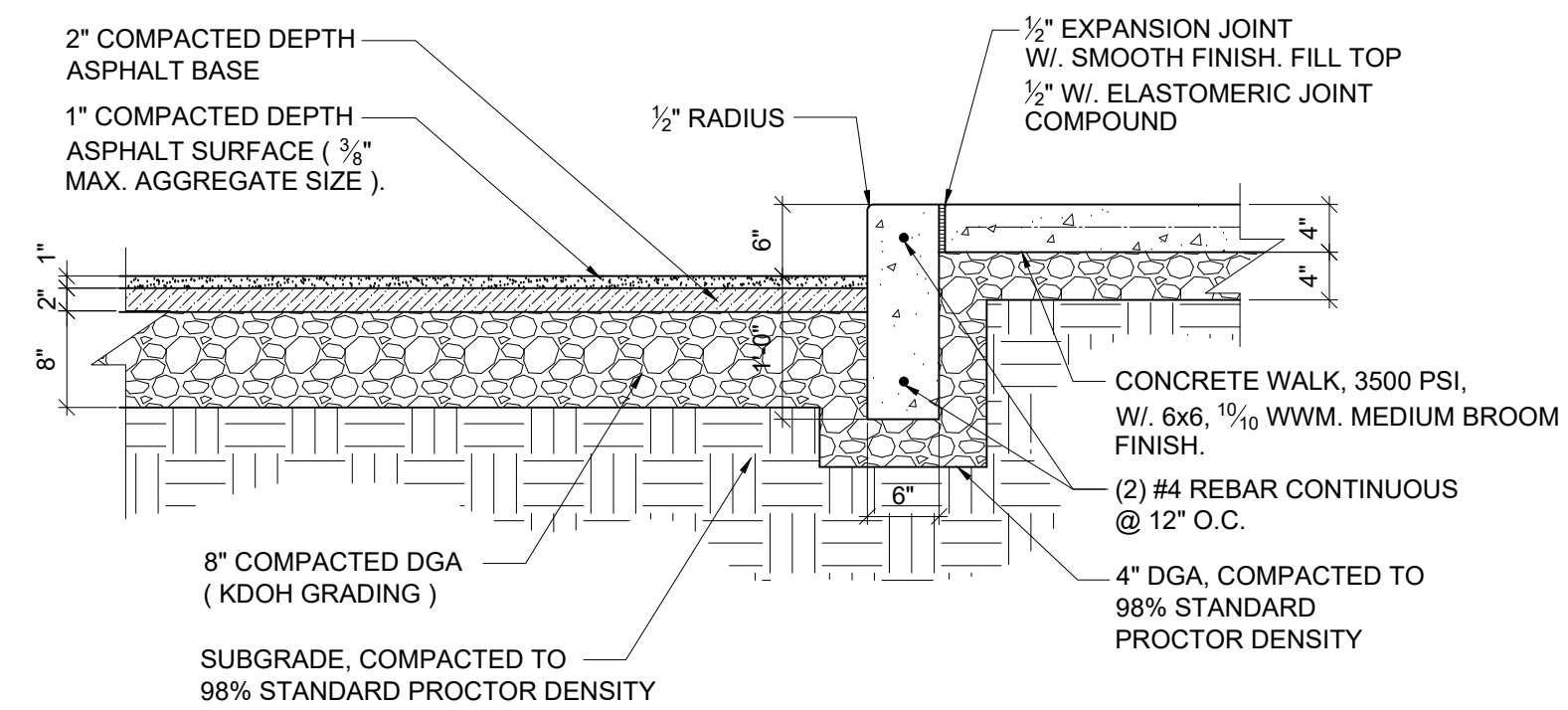


johnson • early • architects  
131 prosperous place, suite 19b • lexington, kentucky 40509  
phone: 859-259-1515 • fax: 859-231-5060 • e-mail: earlyjeb@jeaarchitects.net

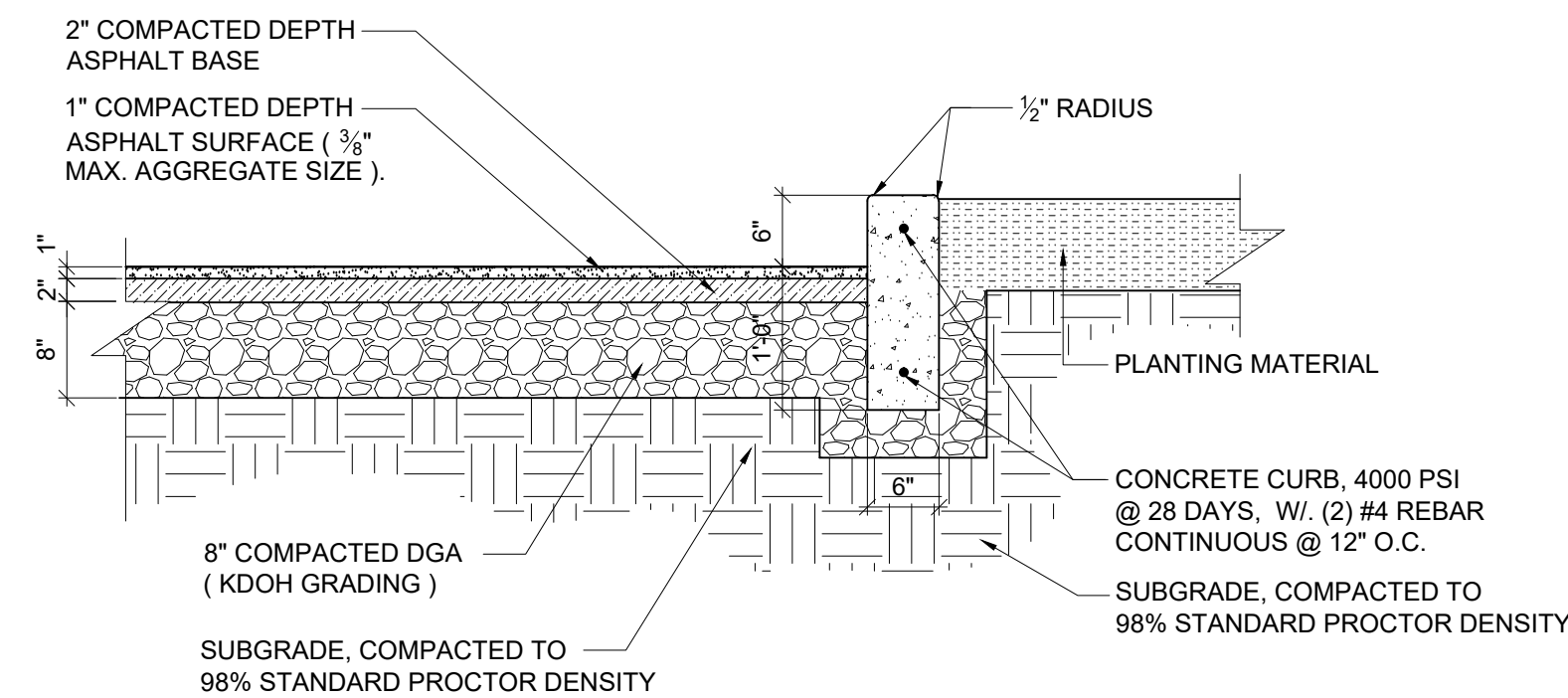


PROJECT NO.	15036
SHEET NO.	CS1.1

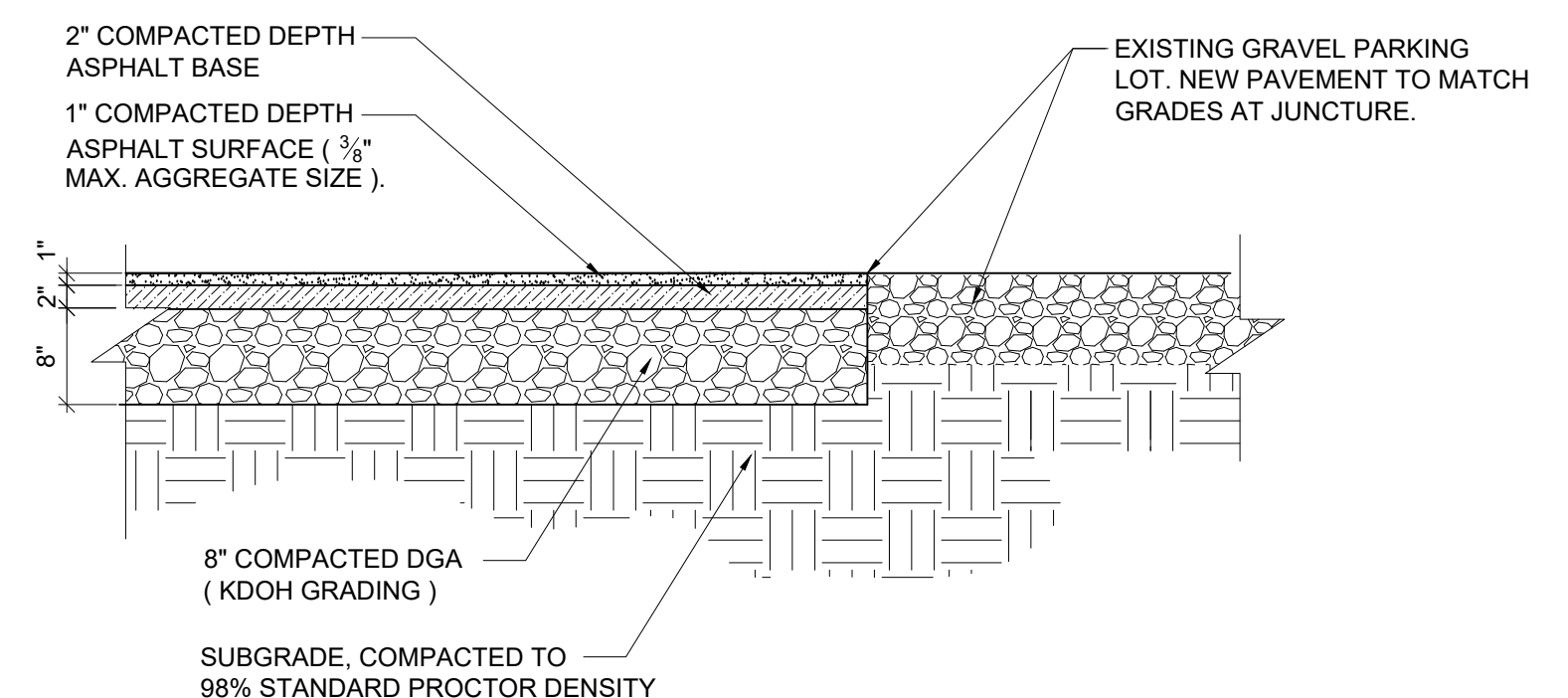




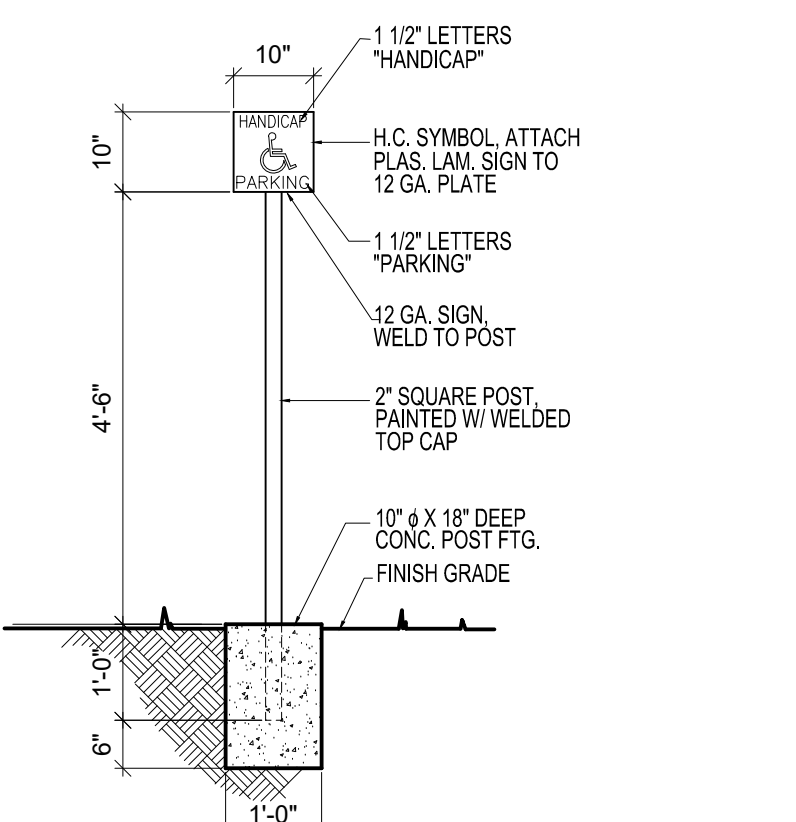
**B CONCRETE CURB / SIDEWALK / PAVEMENT**  
SD1.1 SCALE: 3/4" = 1'-0"



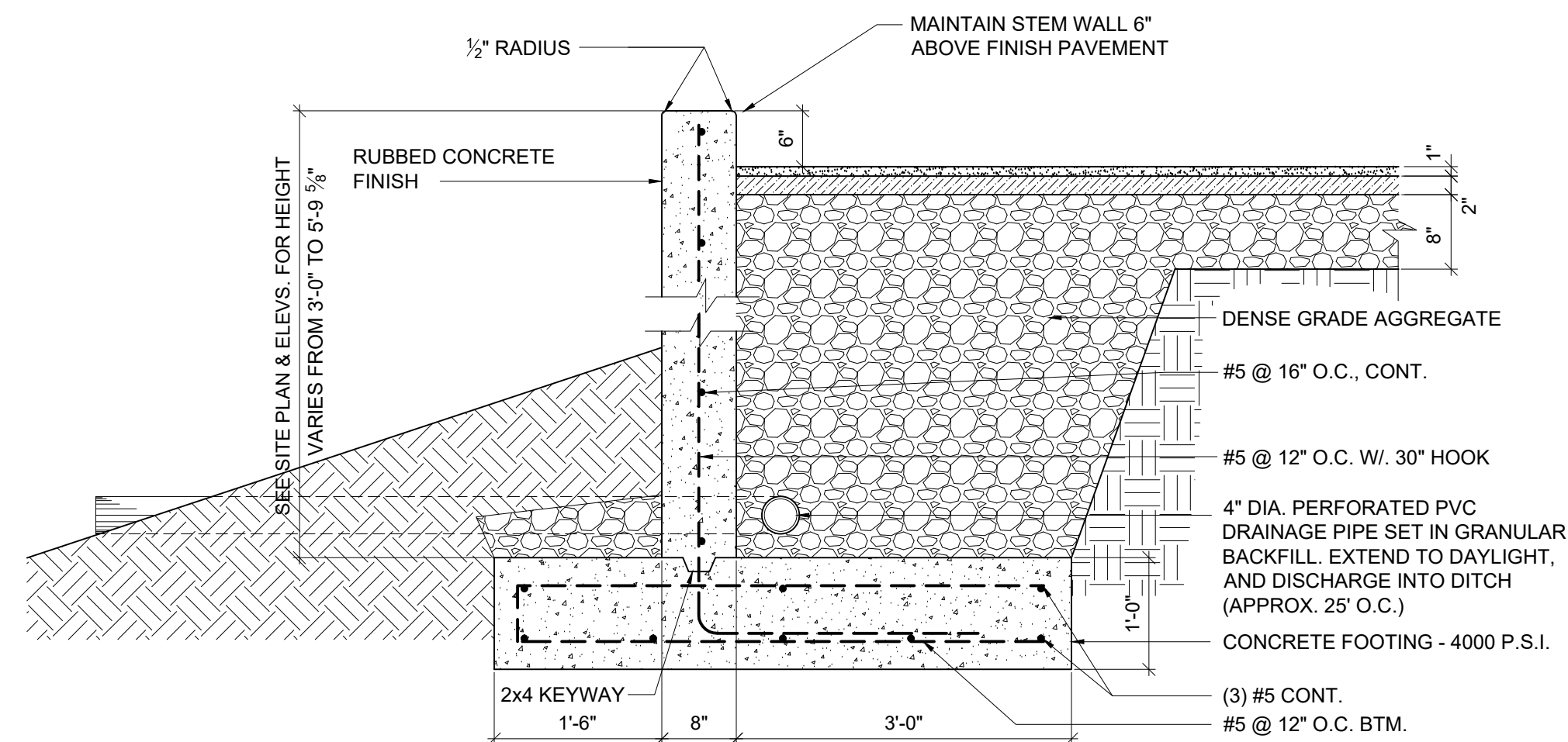
**C CONCRETE CURB / PLANTER / PAVEMENT**  
SD1.1 SCALE: 3/4" = 1'-0"



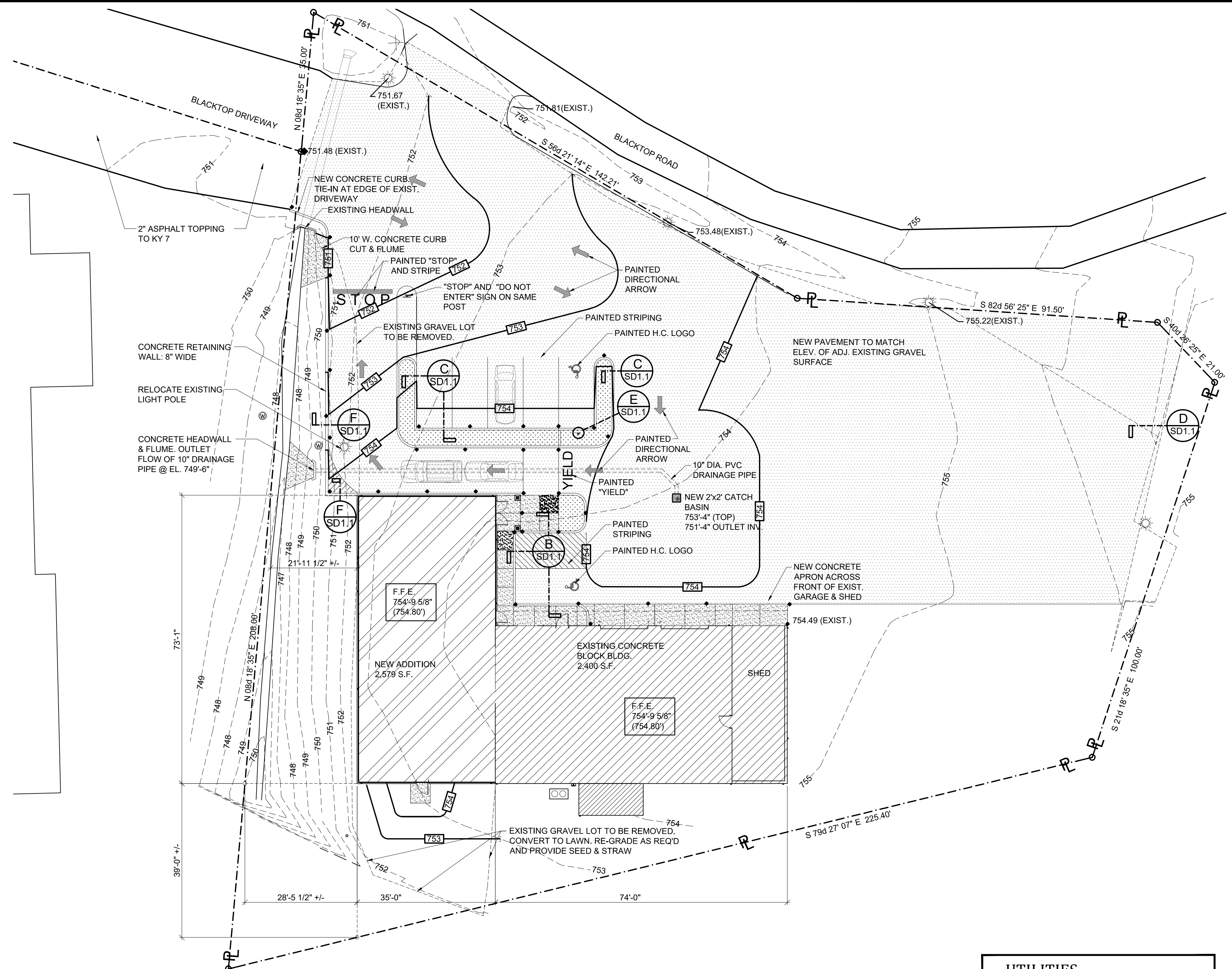
**D NEW PAVEMENT-TO-EXIST. GRAVEL LOT**  
SD1.1 SCALE: 3/4" = 1'-0"



**E H.C. PARKING SIGN DETAIL**  
SD1.1 SCALE: 1/2" = 1'-0"



**F RETAINING WALL DETAIL**  
SD1.1 SCALE: 3/4" = 1'-0"



**MATERIAL'S LEGEND**  
N.T.S.

- CONCRETE
- ASPHALT PAVEMENT
- PLANTER
- NEW SPOT ELEVATIONS SEE A1.1.
- NEW CONTOURS
- EXISTING BUILDING
- NEW ADDITION

NOTE: SEE SHEET A1.1 FOR LAYOUT DIMENSIONS OF CURBS, PARKING SPACES, SPOT ELEVATIONS, AND OTHER SITE DESIGN COMPONENTS.

**A SITE DEVELOPMENT PLAN**  
SD1.1 SCALE: 1/16" = 1'-0"



**RECORD DRAWINGS**

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/20/20

**UTILITIES**

**BUD - Before You Dig**  
1-800-752-6007  
or DIAL 811

NOTE:  
IN ACCORDANCE WITH KENTUCKY STATE LAW, ANY ACTIVITY THAT RESULTS IN MOVEMENT, PLACEMENT, BORING, PROBING OR DIGGING IN OR ON THE GROUND SHALL CONTACT THE ONE CALL CENTER FOR UNDERGROUND UTILITY LOCATIONS.

**WATER DISTRICT**

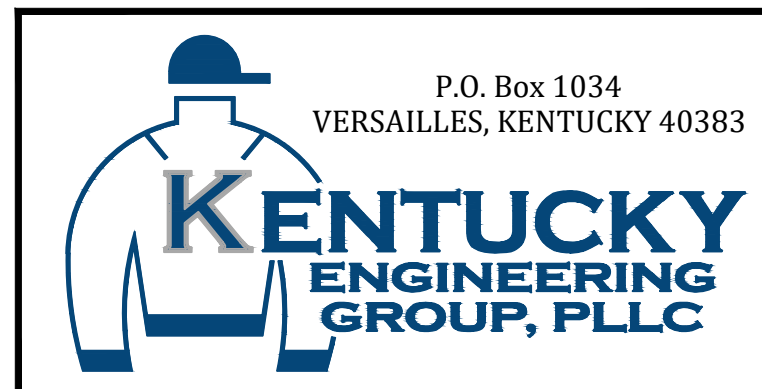
RATTLESNAKE RIDGE WATER DISTRICT  
PHONE: 606-474-7570  
FAX: 606-474-8531

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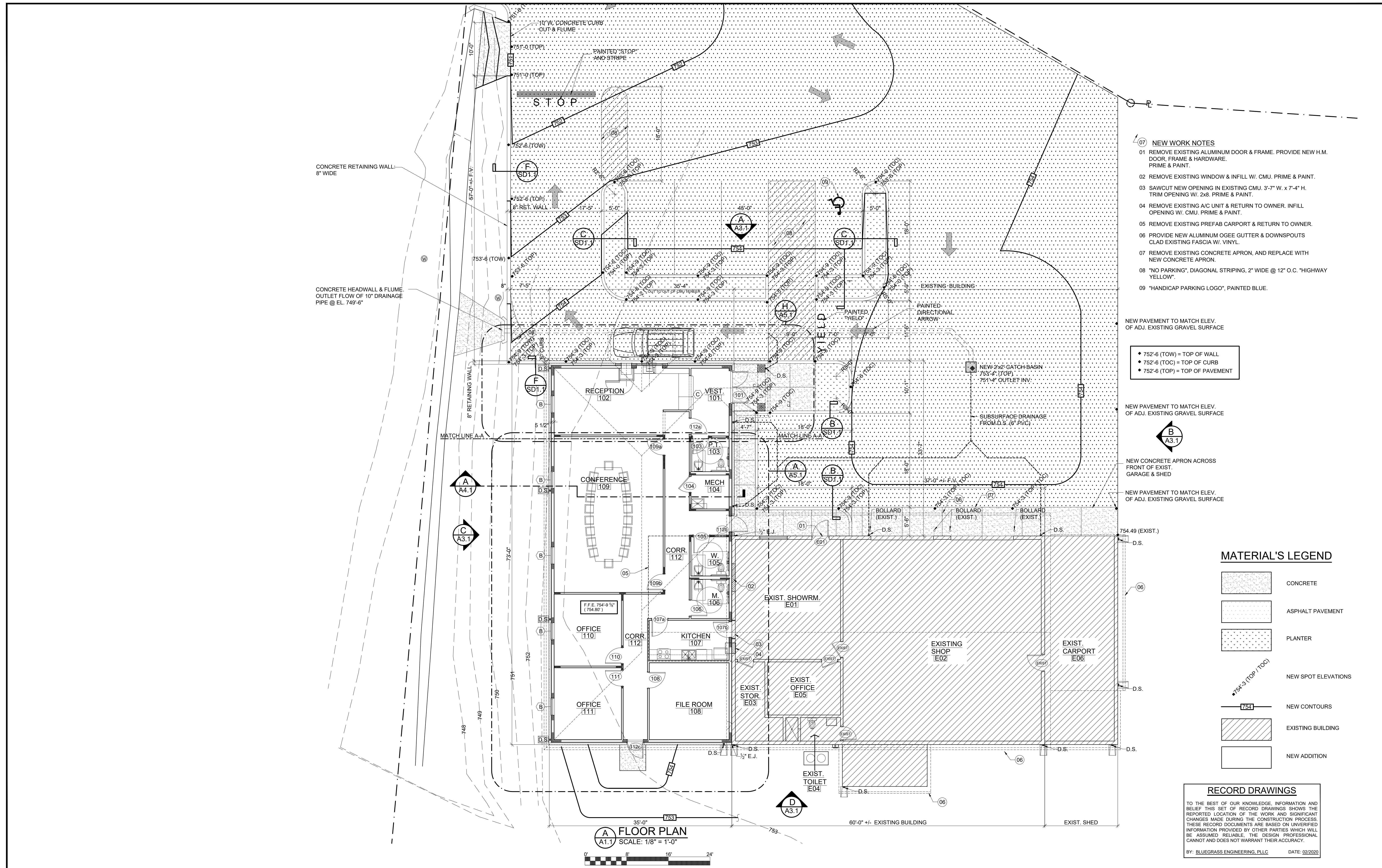


**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING  
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PROJECT NO.  
15036-15036#5  
SHEET NO.  
**SD1.1**



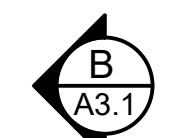


- 07 NEW WORK NOTES**
- 01 REMOVE EXISTING ALUMINUM DOOR & FRAME. PROVIDE NEW H.M. DOOR, FRAME & HARDWARE. PRIME & PAINT.
  - 02 REMOVE EXISTING WINDOW & INFILL W/ CMU. PRIME & PAINT.
  - 03 SAWCUT NEW OPENING IN EXISTING CMU. 3'-7" W. x 7'-4" H. TRIM OPENING W/ 2x8. PRIME & PAINT.
  - 04 REMOVE EXISTING A/C UNIT & RETURN TO OWNER. INFILL OPENING W/ CMU. PRIME & PAINT.
  - 05 REMOVE EXISTING PREFAB CARPORT & RETURN TO OWNER.
  - 06 PROVIDE NEW ALUMINUM OGEE GUTTER & DOWNSPOUTS CLAD EXISTING FASCIA W/ VINYL.
  - 07 REMOVE EXISTING CONCRETE APRON, AND REPLACE WITH NEW CONCRETE APRON.
  - 08 "NO PARKING", DIAGONAL STRIPING, 2" WIDE @ 12" O.C. "HIGHWAY YELLOW".
  - 09 "HANDICAP PARKING LOGO", PAINTED BLUE.

NEW PAVEMENT TO MATCH ELEV. OF ADJ. EXISTING GRAVEL SURFACE

- 752'-6 (TOW) = TOP OF WALL
- 752'-6 (TOC) = TOP OF CURB
- 752'-6 (TOP) = TOP OF PAVEMENT

NEW PAVEMENT TO MATCH ELEV. OF ADJ. EXISTING GRAVEL SURFACE



NEW CONCRETE APRON ACROSS FRONT OF EXIST. GARAGE & SHED

NEW PAVEMENT TO MATCH ELEV. OF ADJ. EXISTING GRAVEL SURFACE

**MATERIAL'S LEGEND**

- CONCRETE
- ASPHALT PAVEMENT
- PLANTER
- NEW SPOT ELEVATIONS
- NEW CONTOURS
- EXISTING BUILDING
- NEW ADDITION

**RECORD DRAWINGS**

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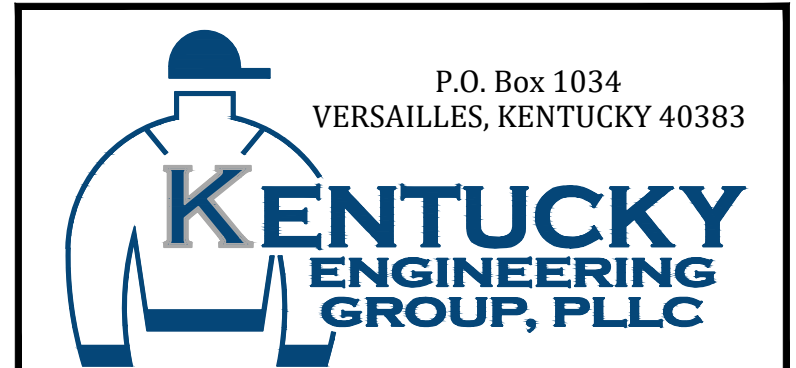
**FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
0' 8' 16' 24'

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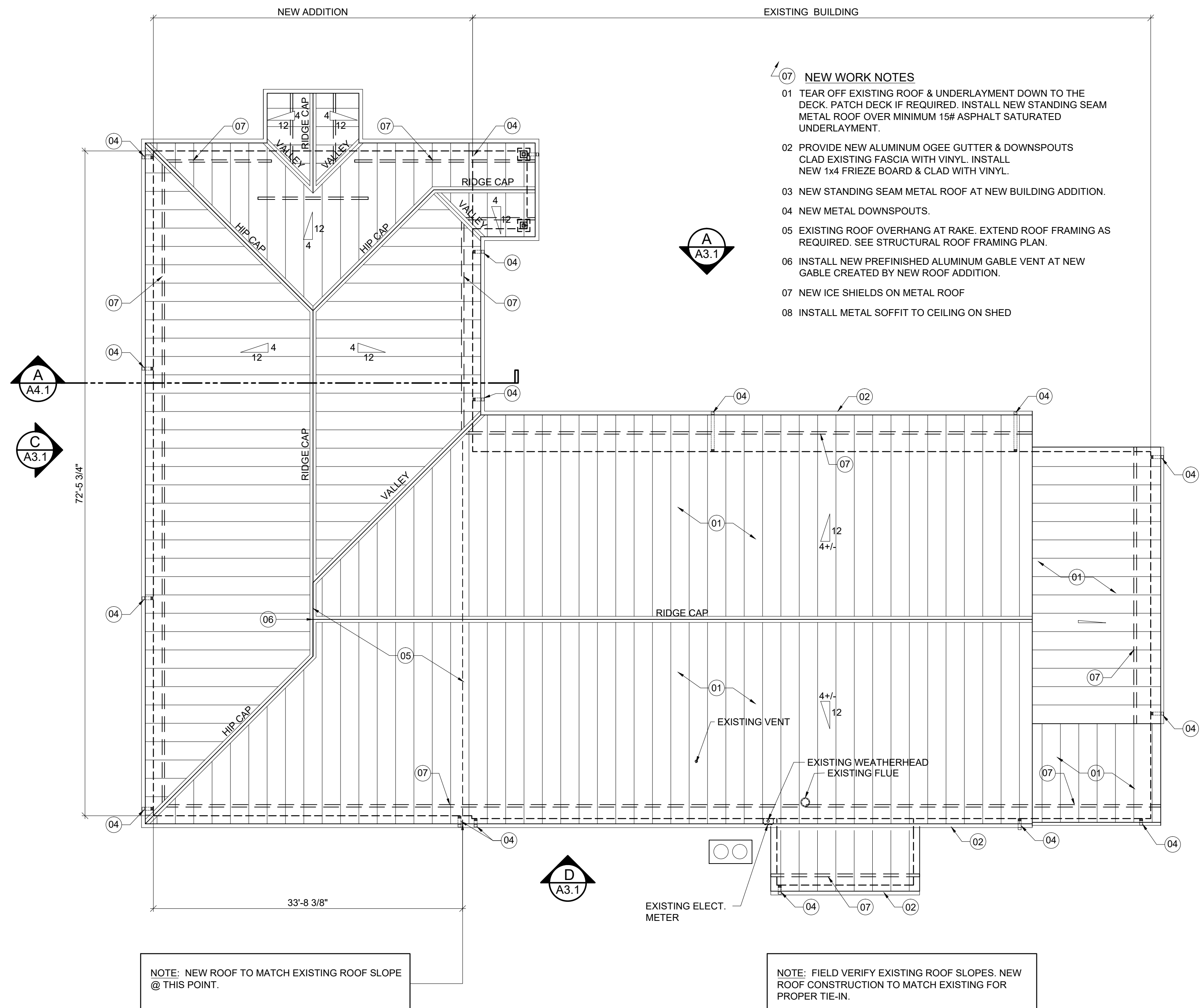


**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT



PROJECT NO. 15036  
SHEET NO. A1.1





- 07 NEW WORK NOTES**
- 01 TEAR OFF EXISTING ROOF & UNDERLAYMENT DOWN TO THE DECK. PATCH DECK IF REQUIRED. INSTALL NEW STANDING SEAM METAL ROOF OVER MINIMUM 15# ASPHALT SATURATED UNDERLAYMENT.
  - 02 PROVIDE NEW ALUMINUM OGEE GUTTER & DOWNSPOUTS CLAD EXISTING FASCIA WITH VINYL. INSTALL NEW 1x4 FRIEZE BOARD & CLAD WITH VINYL.
  - 03 NEW STANDING SEAM METAL ROOF AT NEW BUILDING ADDITION.
  - 04 NEW METAL DOWNSPOUTS.
  - 05 EXISTING ROOF OVERHANG AT RAKE. EXTEND ROOF FRAMING AS REQUIRED. SEE STRUCTURAL ROOF FRAMING PLAN.
  - 06 INSTALL NEW PREFINISHED ALUMINUM GABLE VENT AT NEW GABLE CREATED BY NEW ROOF ADDITION.
  - 07 NEW ICE SHIELDS ON METAL ROOF
  - 08 INSTALL METAL SOFFIT TO CEILING ON SHED

**A ROOF PLAN**  
 A1.2 SCALE: 1/8" = 1'-0"  
 0' 8' 16' 24'

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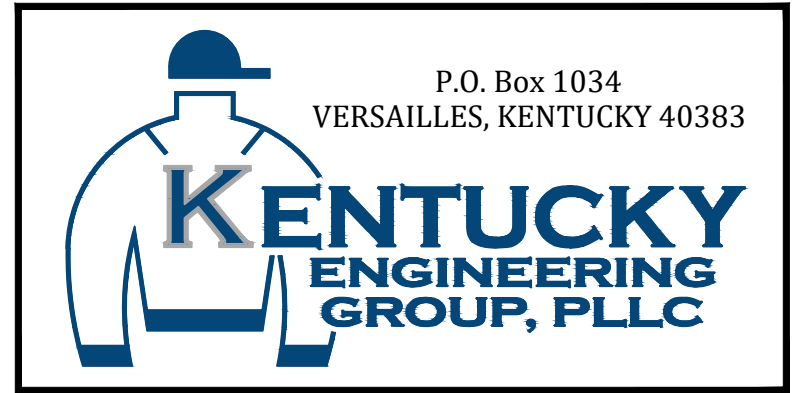
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**PHASE 11 WATER SYSTEM IMPROVEMENTS**

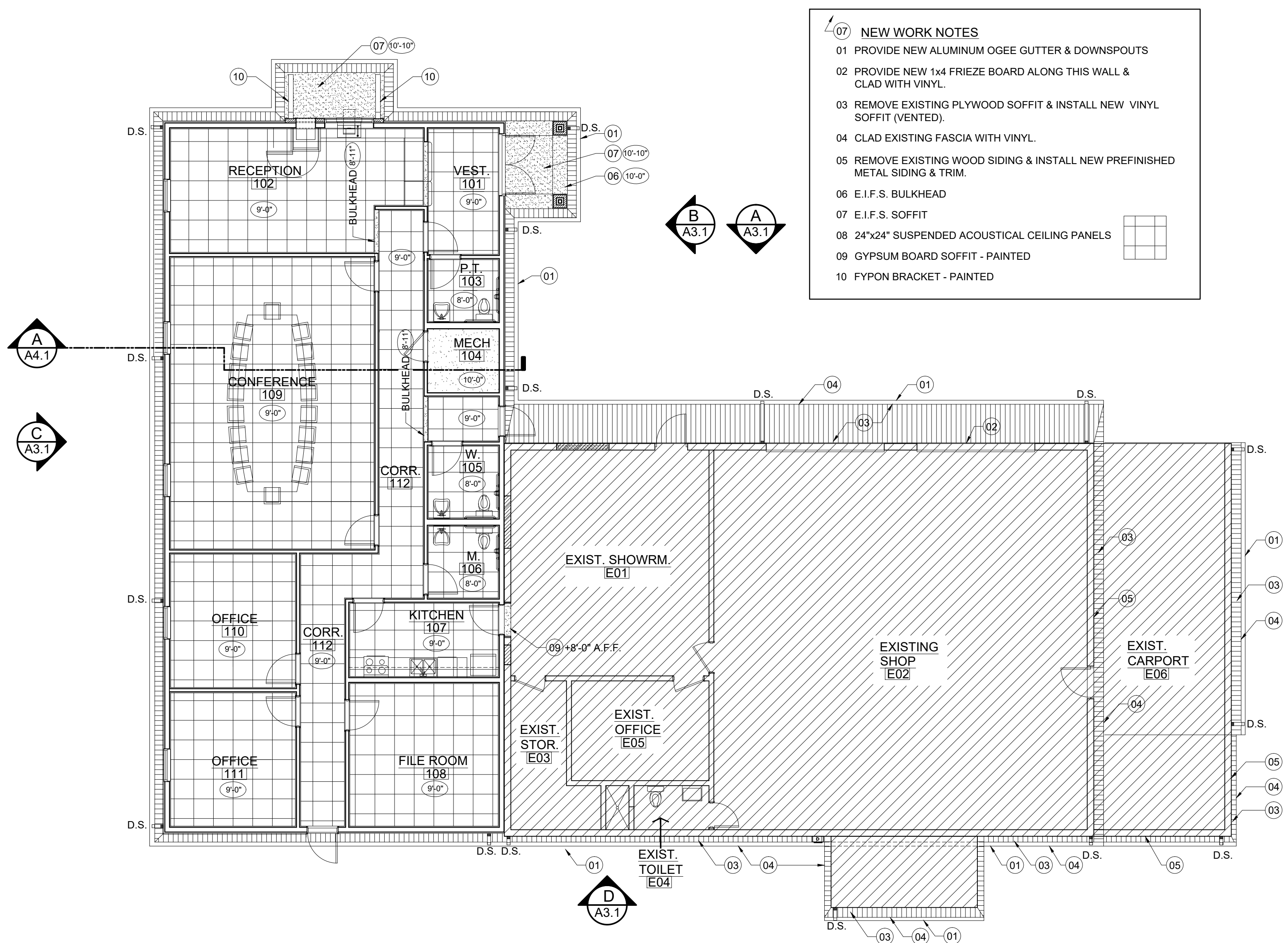
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT



PROJECT NO.  
**15036**

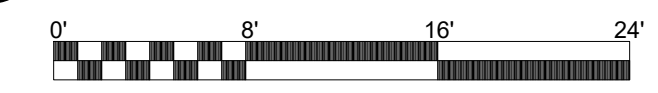
SHEET NO.  
**A1.2**





- NEW WORK NOTES**
- 01 PROVIDE NEW ALUMINUM OGEE GUTTER & DOWNSPOUTS
  - 02 PROVIDE NEW 1x4 FRIEZE BOARD ALONG THIS WALL & CLAD WITH VINYL.
  - 03 REMOVE EXISTING PLYWOOD SOFFIT & INSTALL NEW VINYL SOFFIT (VENTED).
  - 04 CLAD EXISTING FASCIA WITH VINYL.
  - 05 REMOVE EXISTING WOOD SIDING & INSTALL NEW PREFINISHED METAL SIDING & TRIM.
  - 06 E.I.F.S. BULKHEAD
  - 07 E.I.F.S. SOFFIT
  - 08 24"x24" SUSPENDED ACOUSTICAL CEILING PANELS
  - 09 GYPSUM BOARD SOFFIT - PAINTED
  - 10 FYPON BRACKET - PAINTED

**A REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"



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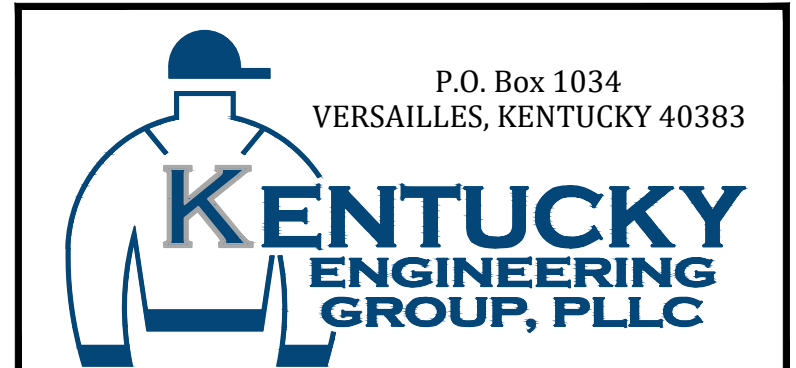
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CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT

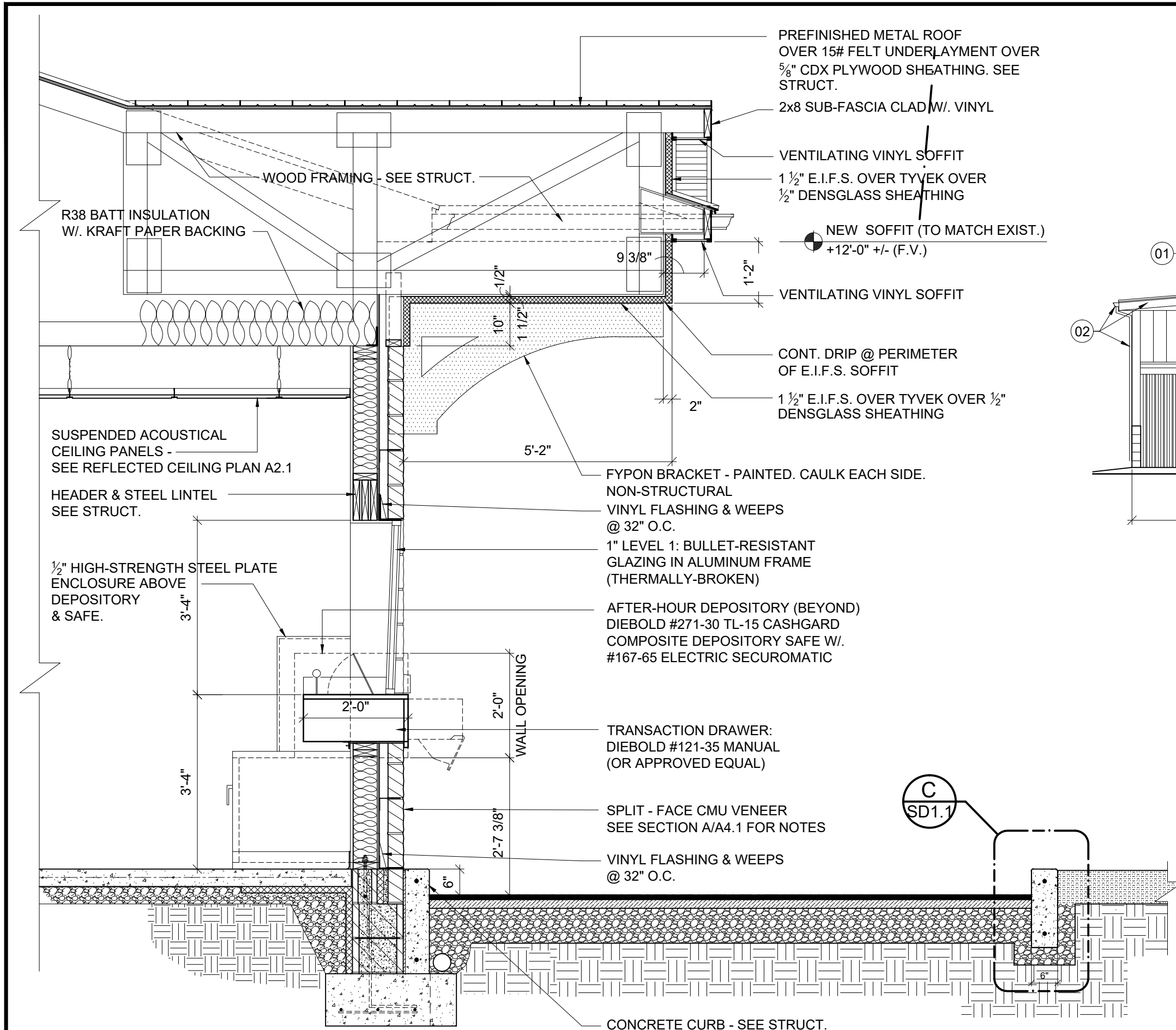
**johnson • early • architects**  
131 prosperous place, suite 19b • lexington, kentucky 40509  
phone: 859-259-1515 • fax: 859-231-5060 • e-mail: earlyjeb@jeaarchitects.net



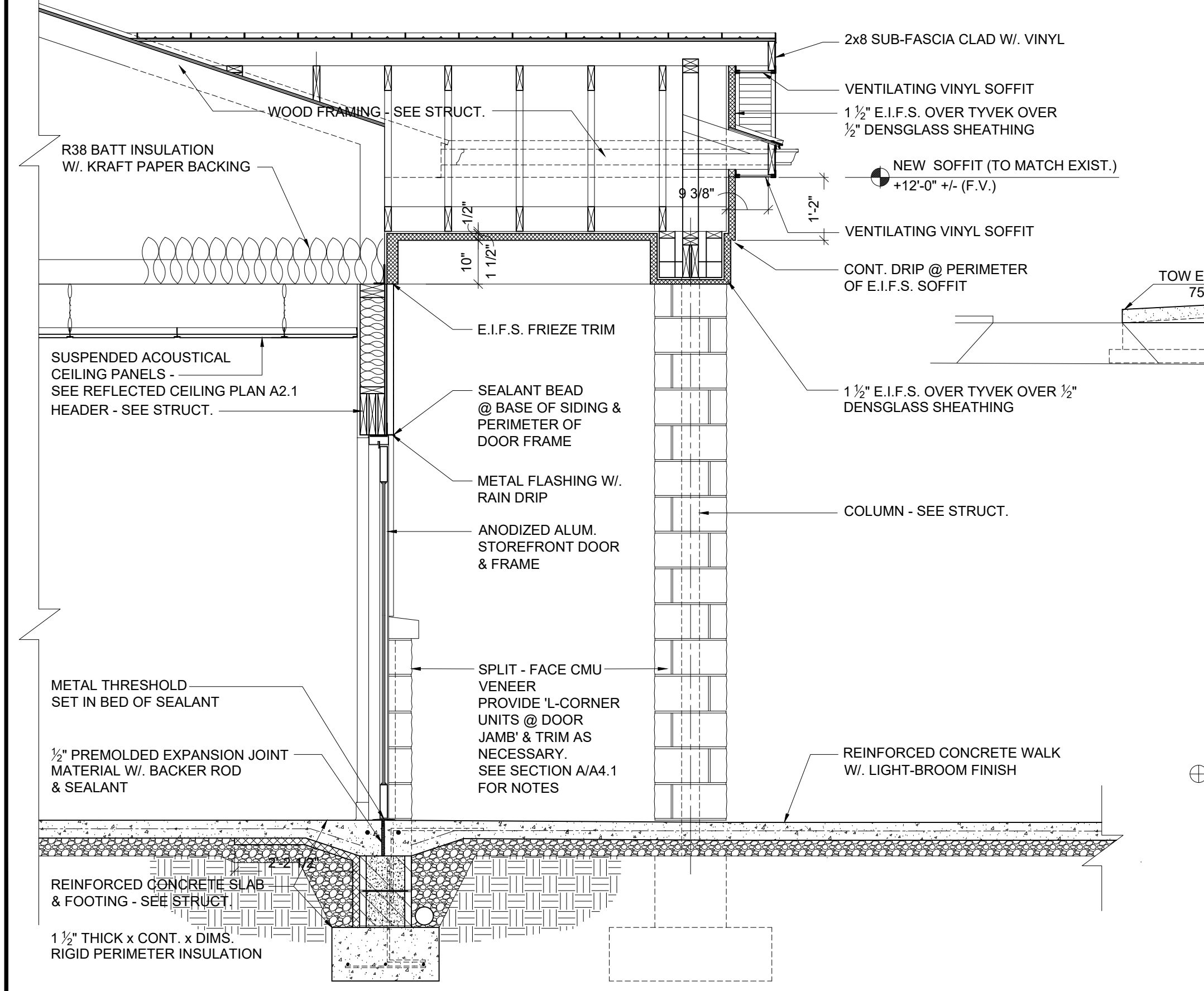
PROJECT NO.  
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SHEET NO.  
**A2.1**

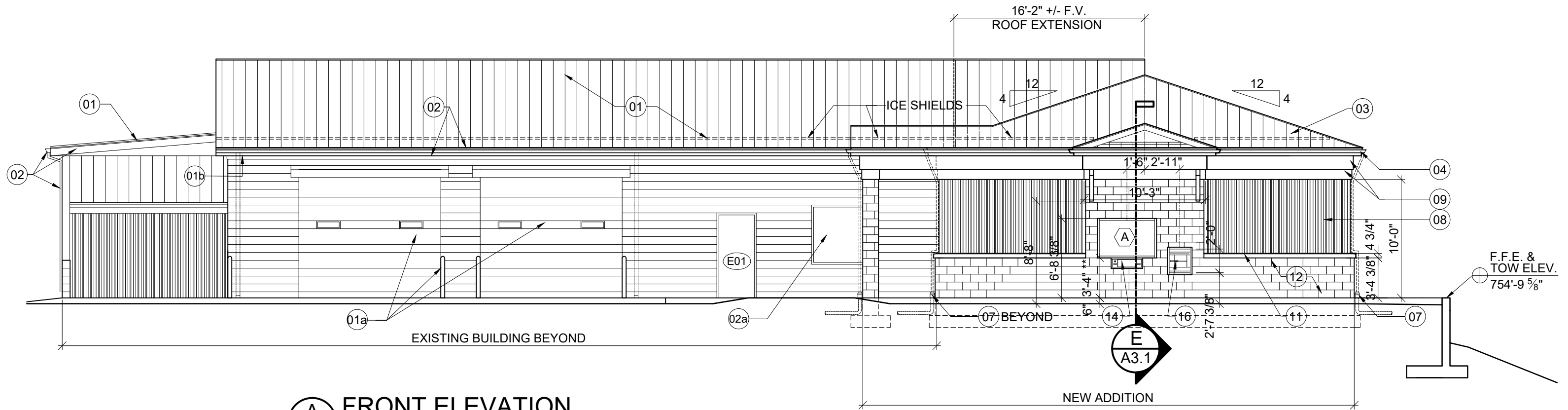




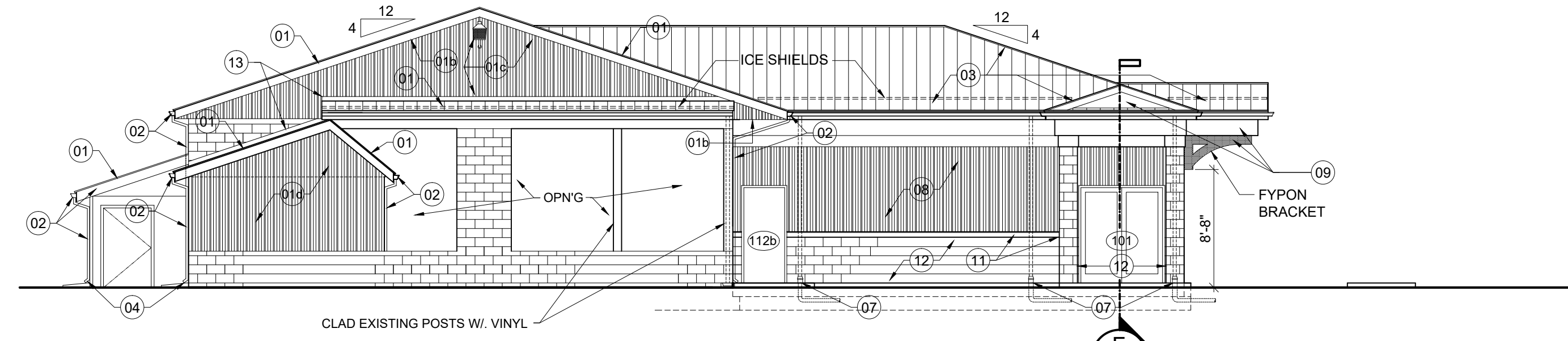
**E SECTION THRU TRANSACTION DRAWER**  
A3.1 SCALE: 1/2" = 1'-0"



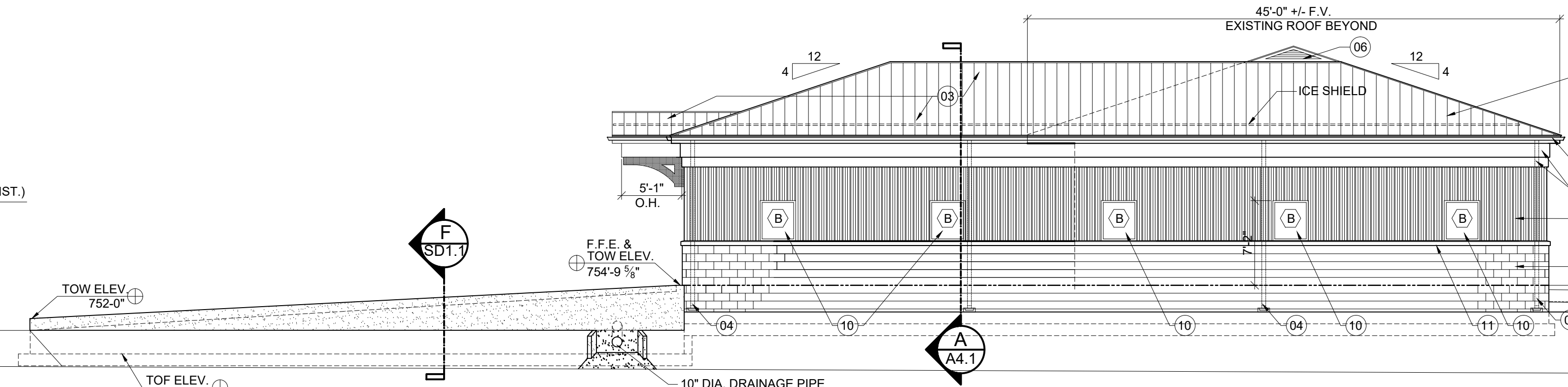
**F SECTION THRU ENTRY**  
A3.1 SCALE: 1/2" = 1'-0"



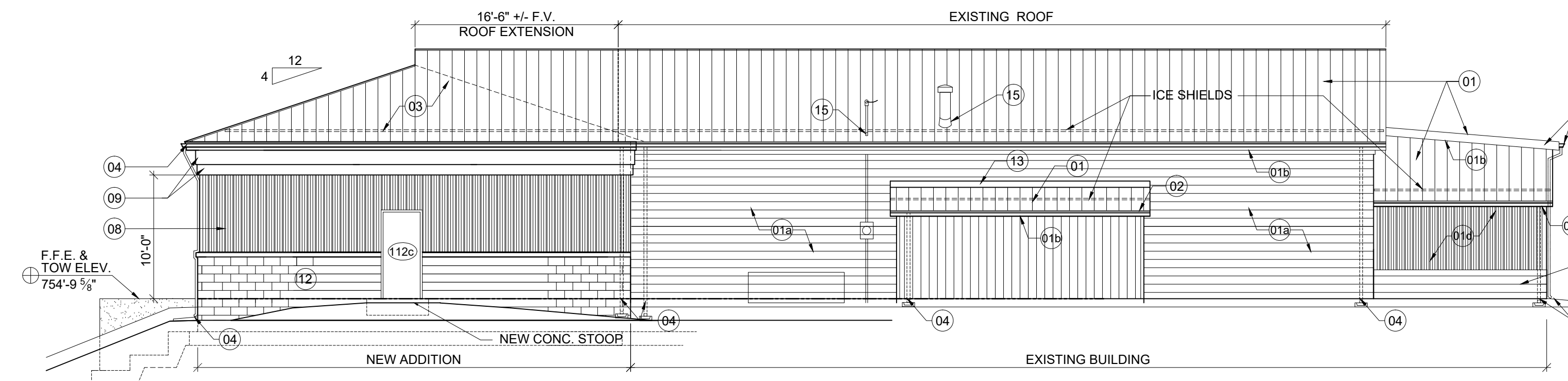
**A FRONT ELEVATION**  
A3.1 SCALE: 1/8" = 1'-0"



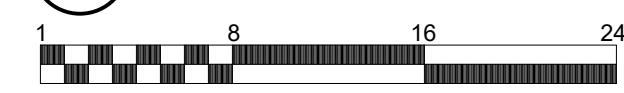
**B LEFT SIDE ELEVATION**  
A3.1 SCALE: 1/8" = 1'-0"



**C RIGHT SIDE ELEVATION**  
A3.1 SCALE: 1/8" = 1'-0"



**D REAR ELEVATION**  
A3.1 SCALE: 1/8" = 1'-0"



- NEW WORK NOTES**
- 01 TEAR OFF EXISTING SHINGLE ROOFING & UNDERLAYMENT DOWN TO THE DECK. PATCH DECK IF REQUIRED. INSTALL NEW PREFINISHED STANDING SEAM METAL ROOF (WITH ICE-SHIELDS) OVER MINIMUM 15# ASPHALT SATURATED UNDERLAYMENT.
  - 01a CLEAN AND PAINT EXISTING CMU, E01 MAN DOOR, OVERHEAD DOORS, & BOLLARDS.
  - 01b REMOVE EXISTING PLYWOOD SOFFIT, AND REPLACE WITH NEW VINYL SOFFIT (VENTED) AND TRIM.
  - 01c REMOVE EXISTING PLYWOOD SIDING & SECURITY LIGHT AT EXISTING GABLES. REPLACE WITH NEW PREFINISHED METAL SIDING & TRIM. RE-INSTALL SECURITY LIGHT.
  - 01d REMOVE EXISTING METAL SIDING, AND REPLACE WITH NEW PREFINISHED METAL SIDING & TRIM.
  - 02 REMOVE EXISTING GUTTER & DOWNSPOUTS. REPLACE WITH NEW PREFINISHED ALUMINUM OGEE GUTTER & DOWNSPOUTS AT EXISTING BUILDING. CLAD EXISTING FASCIA WITH VINYL. INSTALL NEW 1x4 FRIEZE BOARD & CLAD WITH VINYL.
  - 02a EXISTING WINDOW TO REMAIN INTACT.
  - 03 NEW PREFINISHED STANDING SEAM METAL ROOF (WITH ICE-SHIELDS) AT NEW BUILDING ADDITION.
  - 04 NEW METAL GUTTER & DOWNSPOUTS WITH SPLASHBLOCKS.
  - 05 EXISTING ROOF OVERHANG AT RAKE. EXTEND ROOF FRAMING AS REQUIRED. SEE STRUCTURAL ROOF FRAMING PLAN.
  - 06 INSTALL NEW PREFINISHED ALUMINUM GABLE VENT AT NEW GABLE CREATED BY NEW ADDITION.
  - 07 NEW METAL GUTTER & DOWNSPOUTS WITH TRANSITION HUB & BELOW GRADE DRAINAGE LEADER (TO DAYLIGHT).
  - 08 PREFINISHED METAL SIDING.
  - 09 E.I.F.S. (EXTERIOR INSULATION FINISH SYSTEM) FRIEZE.
  - 10 PREFINISHED ALUMINUM WINDOW.
  - 11 CUT STONE BAND.
  - 12 SPLIT-FACE CMU VENEER.
  - 13 PREFINISHED METAL FLASHING (MIN. 6" HIGH). INSERT METAL REGLET INTO SAWN JOINT & INSTALL SEALANT BEAD.
  - 14 TRANSACTION DRAWER / WINDOW UNIT W. BULLET-RESISTANT GLASS. (\*COORDINATE HT. / WIDTH W/ OWNER)
  - 15 ALL ROOF PENETRATIONS, INCLUDING NEW AND EXISTING SHALL HAVE WEATHER-TIGHT BOOTS.
  - 16 AFTER-HOUR DEPOSITORY

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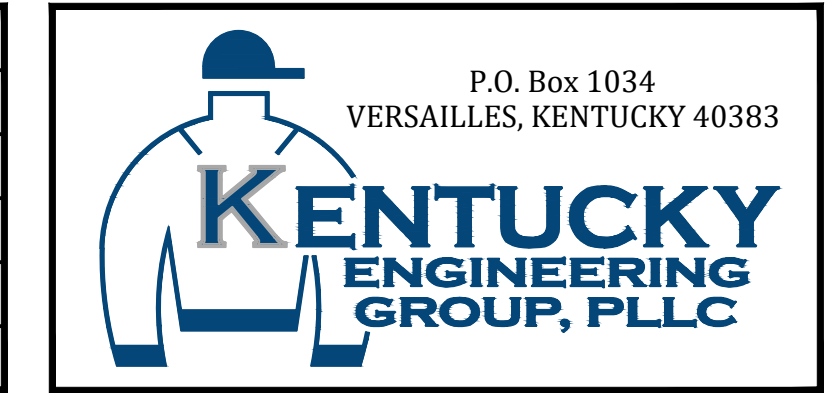
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DATE: NOVEMBER 2017  
PROJECT MGR:  
DRAWN BY:  
CHECKED BY: JBE  
SCALE: AS NOTED  
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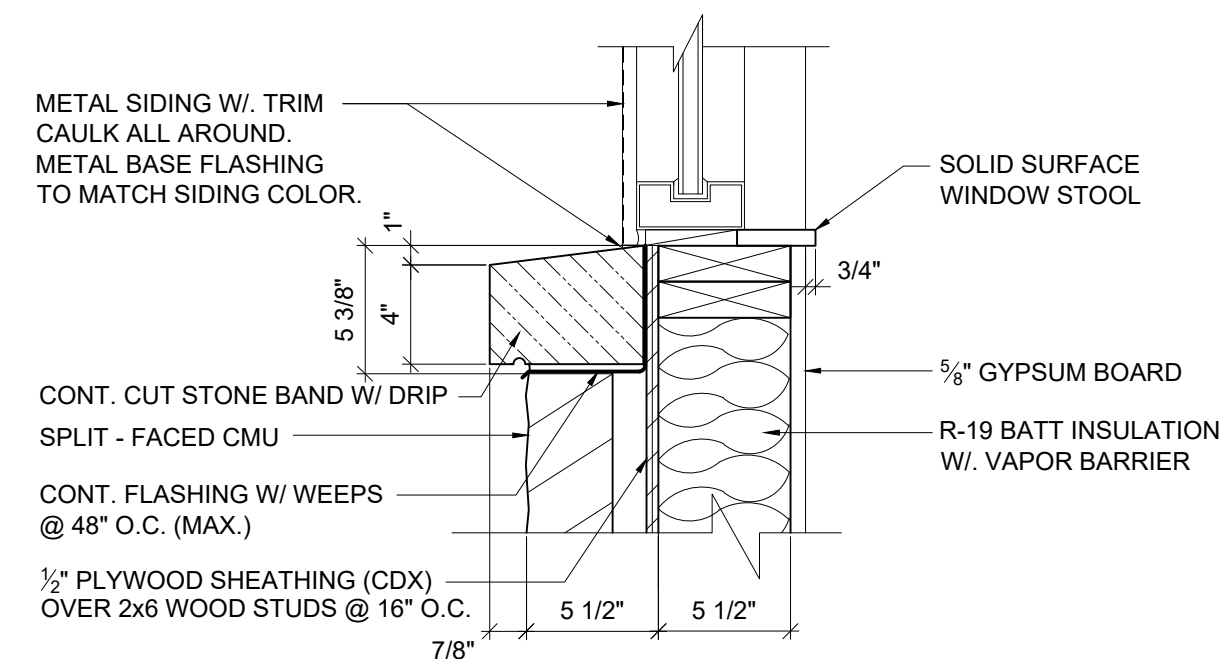


**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT

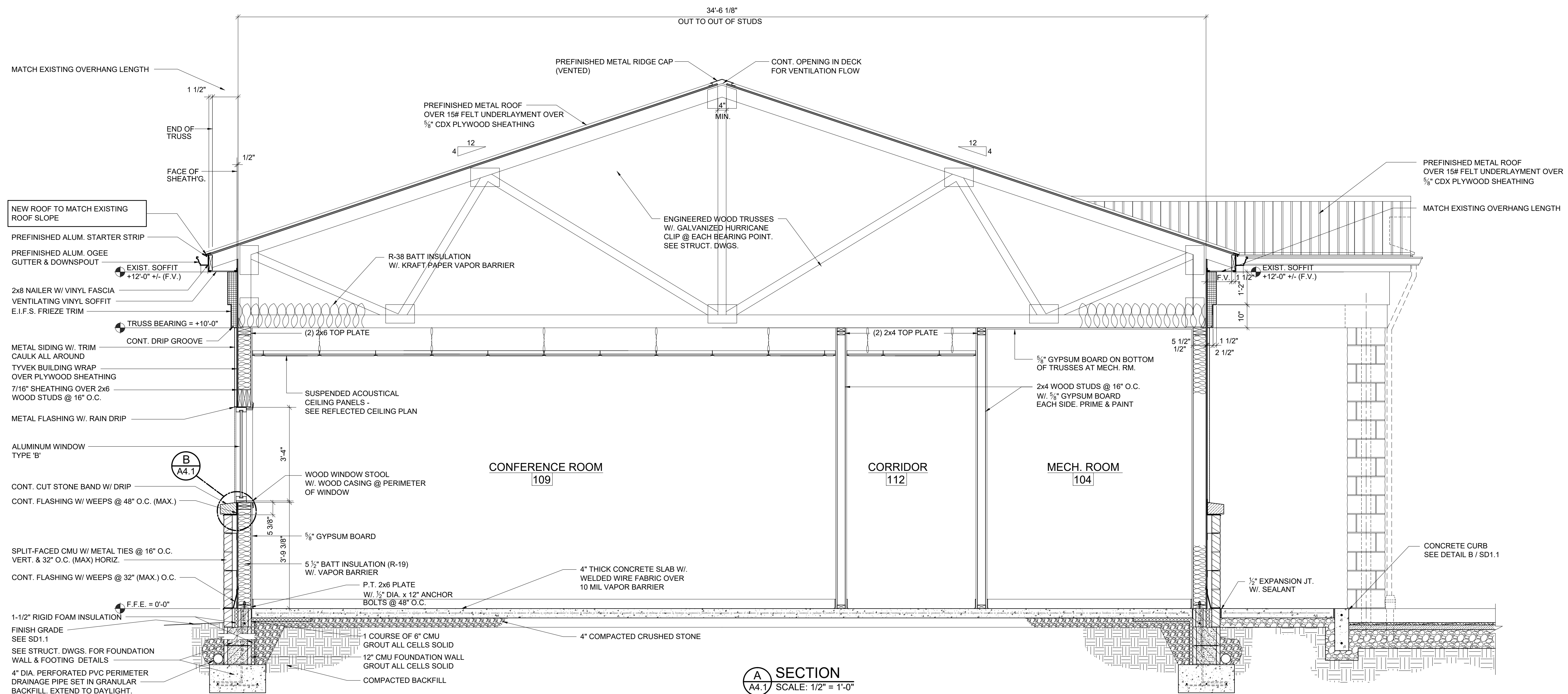


PROJECT NO. 15036  
SHEET NO. A3.1





**B** DETAIL  
A4.1 SCALE: 1 1/2" = 1'-0"



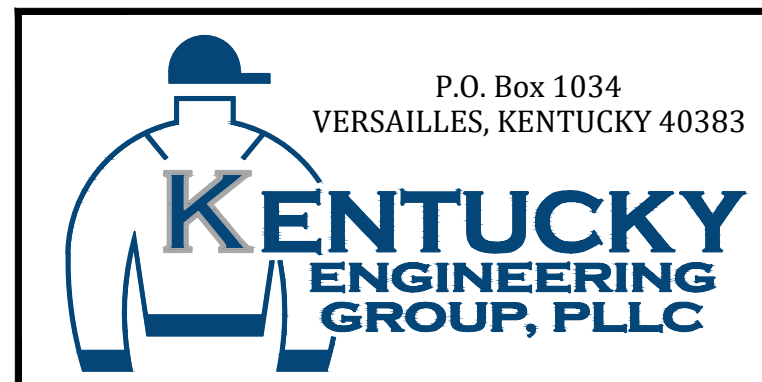
**A** SECTION  
A4.1 SCALE: 1/2" = 1'-0"

**RECORD DRAWINGS**  
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWINGS SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.  
BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020

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DATE:	NOVEMBER 2017
PROJECT MGR:	
DRAWN BY:	DRC
CHECKED BY:	JBE
SCALE:	AS NOTED
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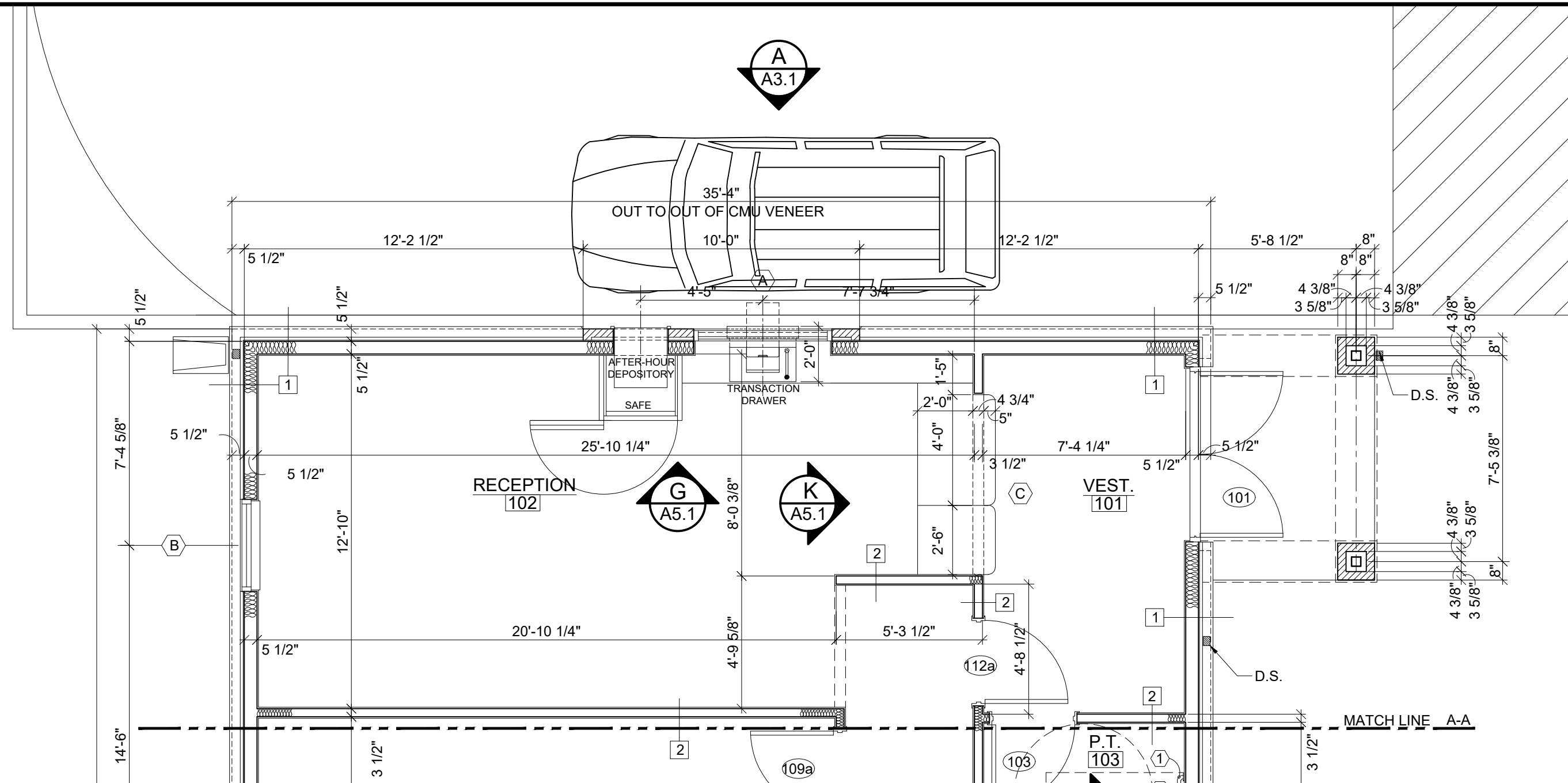


**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT



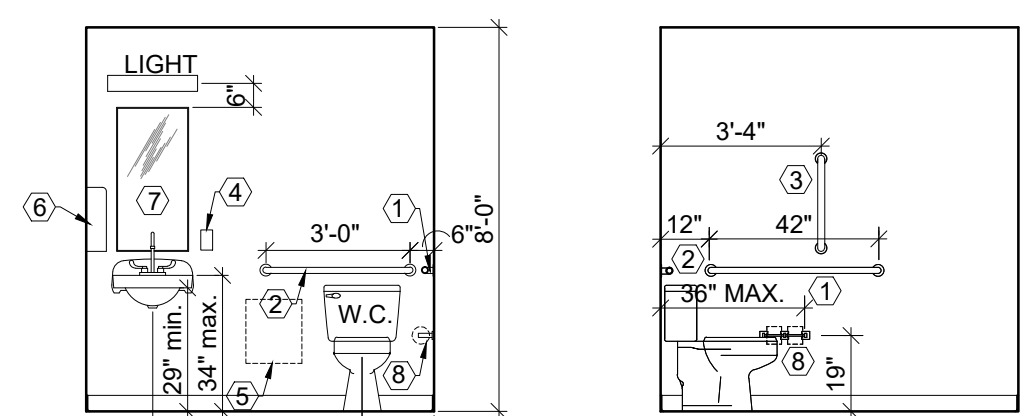
PROJECT NO.	15036
SHEET NO.	A4.1



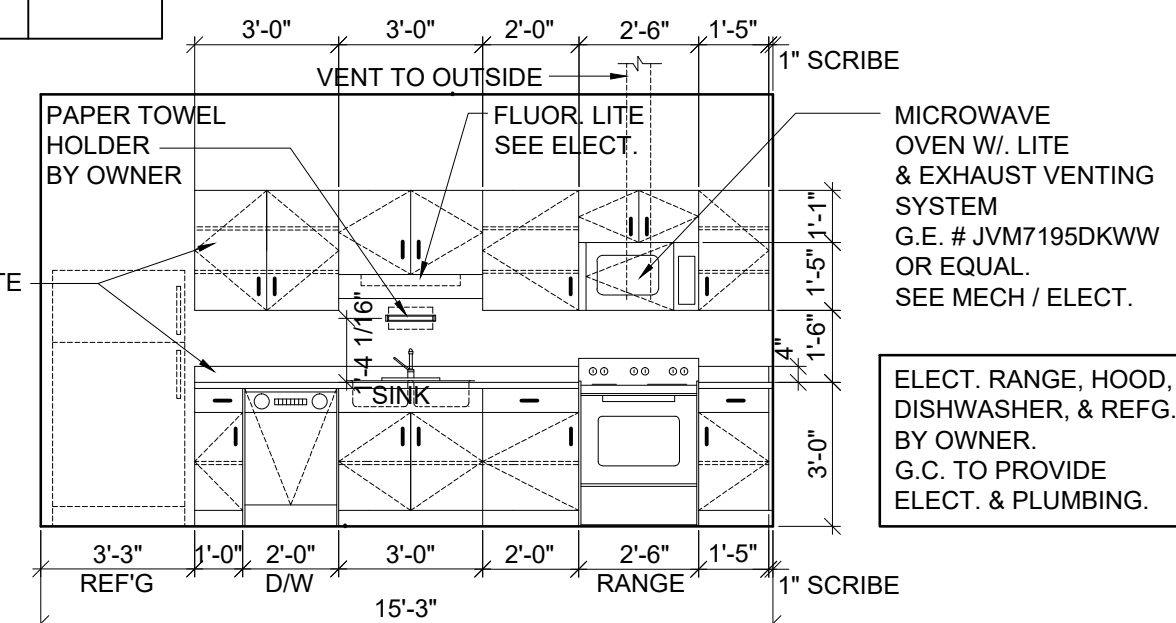


**(H) PARTIAL ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"

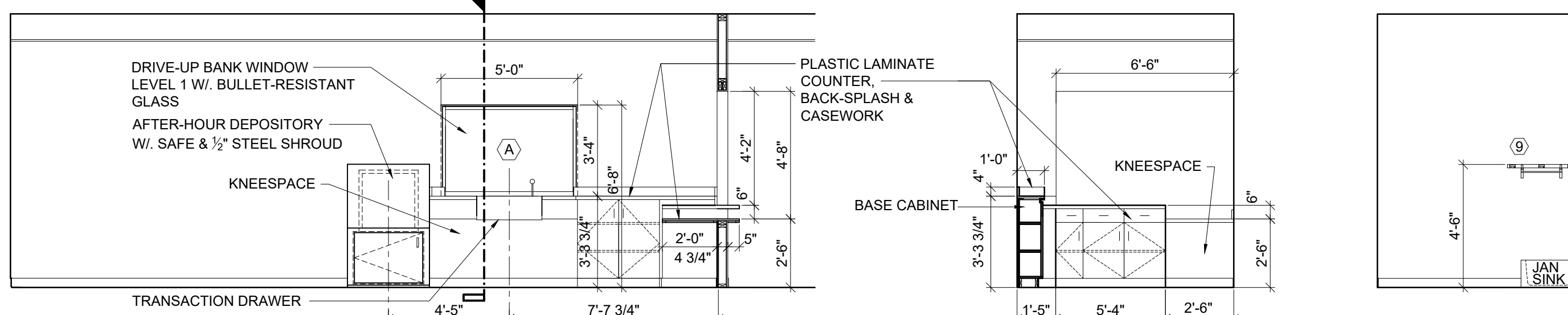
ITEM NO.	MANUF. & MODEL NO.	DESCRIPTION	MOUNTING HEIGHT
1	BOBRICK B-50-42	42" GRAB BAR, 1-1/4" Ø, PEENED NON-SLIP SATIN FINISH FLANGE, 1-1/2" WALL CLEARANCE	36" A.F.F.
2	BOBRICK B-50-36	36" GRAB BAR, 1-1/4" Ø, PEENED NON-SLIP SATIN FINISH FLANGE, 1-1/2" WALL CLEARANCE	36" A.F.F.
3	BOBRICK B-50-24	24" GRAB BAR, 1-1/4" Ø, PEENED NON-SLIP SATIN FINISH FLANGE, 1-1/2" WALL CLEARANCE MOUNTED VERTICAL ABOVE HORIZONTAL GRAB BAR	40" A.F.F. TO BOT.
4	BY OWNER	LIQUID SOAP DISPENSER, WALL MOUNTED	40" A.F.F. TO BOT.
5	BY OWNER	WALL-MOUNTED SANITARY NAPKIN DISPOSAL, STAINLESS STEEL, SATIN FINISH	28" A.F.F.
6	BY OWNER	PAPER TOWEL DISPENSER, WALL MOUNTED	40" A.F.F. TO BOT.
7	BOBRICK B-165 1830	MIRROR, 18" x 30", STAINLESS STEEL FRAMED	40" A.F.F. TO BOT.
8	BOBRICK B-5807	TOILET PAPER HOLDER, TWO ROLL, STAINLESS STEEL, SATIN FINISH	19" A.F.F.
9	BOBRICK B-224x36	SHELF WITH MOP & BROOM HOLDERS & RAG HOOKS, STAINLESS STEEL, SATIN FINISH	54" A.F.F.



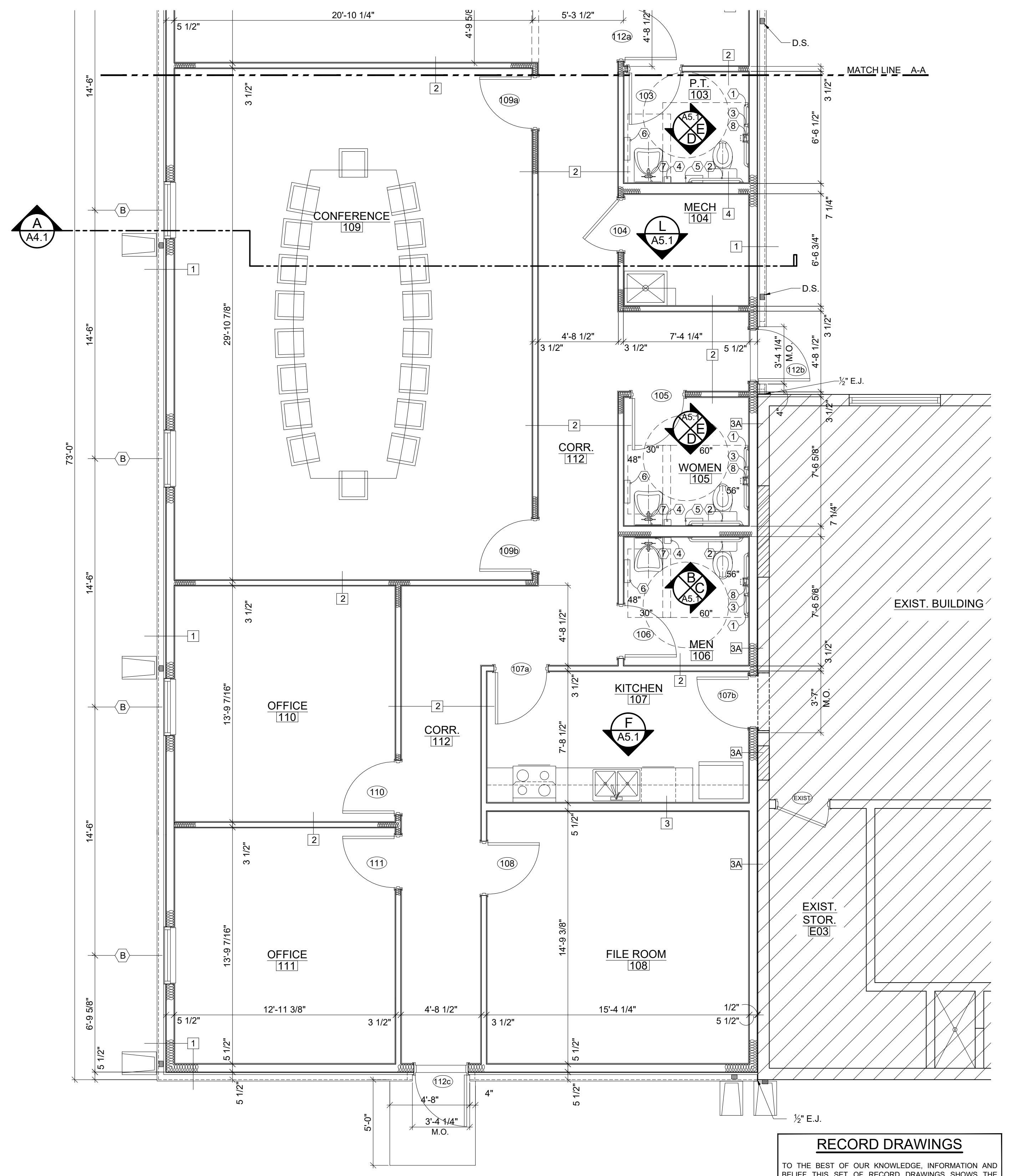
**(B) ELEVATION** SCALE: 1/4" = 1'-0"  
**(D) ELEVATION** SCALE: 1/4" = 1'-0" SIMILAR / OPP HAND  
**(E) ELEVATION** SCALE: 1/4" = 1'-0" SIMILAR / OPP HAND



**(F) ELEVATION** SCALE: 1/4" = 1'-0"



**(G) ELEVATION** SCALE: 1/4" = 1'-0"  
**(K) ELEVATION** SCALE: 1/4" = 1'-0"  
**(L) ELEV. AT JAN. SINK** SCALE: 1/4" = 1'-0"



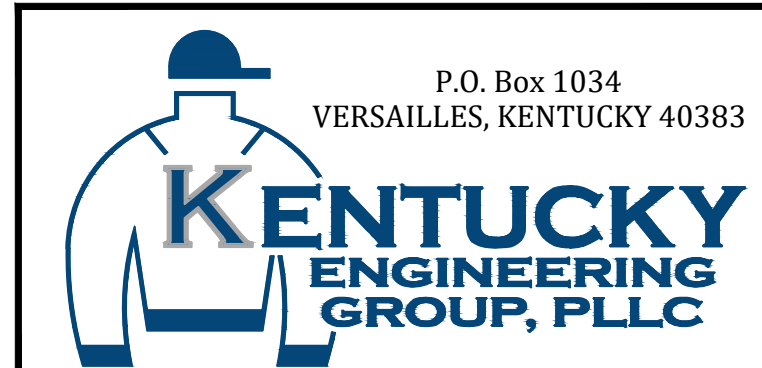
**(A) PARTIAL ENLARGED PLAN**  
SCALE: 1/4" = 1'-0"  
SEE A6.1 FOR WALL TYPES. -1-

**RECORD DRAWINGS**  
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWINGS SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.  
BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/20/20

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DATE: NOVEMBER 2017  
PROJECT MGR:  
DRAWN BY: DRC  
CHECKED BY: JBE  
SCALE: AS NOTED  
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**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT



PROJECT NO. 15036  
SHEET NO. A5.1



DOOR, FRAME & HARDWARE SCHEDULE																															
DOOR NO.	DOOR				FRAME				DOOR HARDWARE (US26D FINISH)												MISCELLANEOUS			DOOR NO.							
	SIZE	MATL.	ELEV.	GLASS	MATL.	ELEV.	TYPE	DETAIL	DOOR NO.	LABEL	3 HINGES PER LEAF	1 CLOSER	2 CYLINDER	3 KEYED LOCKSET	4 PRIVACY LOCKSET	5 PASSAGE LATCHSET	6 THRESHOLD	7 WEATHERSTRIPPING	8 BUMPER/STOP	9 KICKPLATE	10 PUSH/PULL	11 FLUSH BOLTS AT INACTIVE LEAF	12 ROLLER BUMPER		13 COORDINATOR	14 MAGNETIC HOLD	15 HOLDOPEN DEVICE	16 PEEPHOLE VIEWER	17 POSITIVE LATCH	18 AUTOMATIC OPER.	REMARKS
101	PR. 3'-0" x 7'-0" x 1 3/4"	ALUM	1	5/8" TEMP. INSUL.	ALUM	C	2" x 4 1/2" T.B.	C / E / A6.1	101		1	2	3	4															1. 1/2" TEMPERED INSULATED GLASS AT ENTRY DOORS. SEE ELEVATIONS. 2. 1/2" CLEAR TEMPERED GLASS. 3. 2" x 4 1/2" THERMALLY BROKEN FRAME. KAWNEER 451T OR EQUAL. 4. 1 1/2" x 4" ALUMINUM STOREFRONT. KAWNEER 400 OR EQUAL.	101	
103	3'-0" x 7'-0" x 1 3/4"	WD	4	-----	H.M.	A	KD	B / A6.1	103					6															UNISEX TOILET / HANDICAP SYMBOL	103	
104	3'-0" x 7'-0" x 1 3/4"	WD	4	-----	H.M.	A	KD	B / A6.1	104					5																WOMEN	104
105	3'-0" x 7'-0" x 1 3/4"	WD	4	-----	H.M.	A	KD	B / A6.1	105					6																MEN	105
106	3'-0" x 7'-0" x 1 3/4"	WD	4	-----	H.M.	A	KD	B / A6.1	106					6																	106
107a	3'-0" x 7'-0" x 1 3/4"	WD	3	14" TEMPERED	H.M.	A	KD	B / A6.1	107a					5																	107a
107b	3'-0" x 7'-0" x 1 3/4"	WD	4	-----	H.M.	A	KD	B / A6.1	107b					5																	107b
108	3'-0" x 7'-0" x 1 3/4"	WD	4	-----	H.M.	A	KD	B / A6.1	108					5																	108
109a	3'-0" x 7'-0" x 1 3/4"	WD	3	14" TEMPERED	H.M.	A	KD	B / A6.1	109a					5																	109a
109b	3'-0" x 7'-0" x 1 3/4"	WD	3	14" TEMPERED	H.M.	A	KD	B / A6.1	109b					5																	109b
110	3'-0" x 7'-0" x 1 3/4"	WD	3	-----	H.M.	A	KD	B / A6.1	110					5																	110
111	3'-0" x 7'-0" x 1 3/4"	WD	3	-----	H.M.	A	KD	B / A6.1	111					5																	111
112a	3'-0" x 7'-0" x 1 3/4"	WD	4	-----	H.M.	A	KD	B / A6.1	112a		1	2	3	4								11	12								112a
112b	3'-0" x 7'-0" x 1 3/4"	HM	2	-----	H.M.	B	WELDED	A / E / A6.1	112b		1	2	3	4			8	9				11	12							112b	
112c	3'-0" x 7'-0" x 1 3/4"	HM	2	-----	H.M.	B	WELDED	A / E / A6.1	112c		1	2	3	4			8	9				11	12					19		NO PULL AT EXTERIOR. PROVIDE FLUSH COVER PLATE.	112c

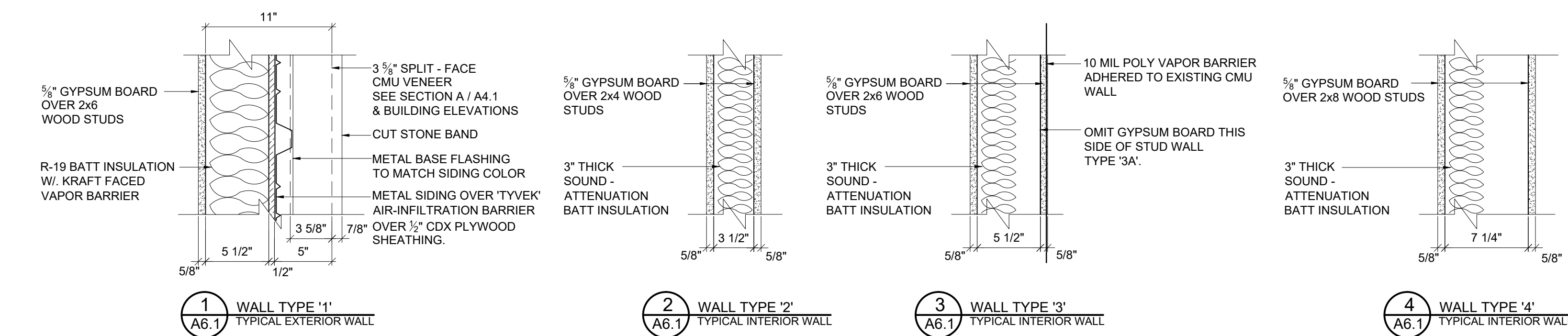
**DOOR HARDWARE NOTES**

- A. CONTRACTOR SHALL RETAIN A CERTIFIED HARDWARE CONSULTANT TO PREPARE ALL REQUIRED DOOR HARDWARE SETS. CONSULTANT SHALL CONFER WITH OWNER TO CONFIRM FUNCTION, AND KEYING FOR EACH DOOR. FINISH SHALL BE US26D.
- B. DOOR LOCKS SHALL BE HEAVY DUTY CYLINDRICAL LEVER HANDLE LOCKSETS. CYLINDERS SHALL BE COMPATIBLE WITH EXISTING BUILDING MASTER SYSTEM. FIELD VERIFY REQUIREMENTS.
- C. ALL HARDWARE AND INSTALLATIONS SHALL COMPLY WITH ALL A.D.A. (HANDICAPPED ACCESSIBILITY REQUIREMENTS), AND APPLICABLE KBC REQUIREMENTS.
- D. ALL HARDWARE FOR ALUMINUM ENTRANCES SHALL BE PROVIDED AND INSTALLED BY STOREFRONT SUPPLIER EXCEPT CYLINDERS, WHICH SHALL BE BY HARDWARE SUPPLIER.

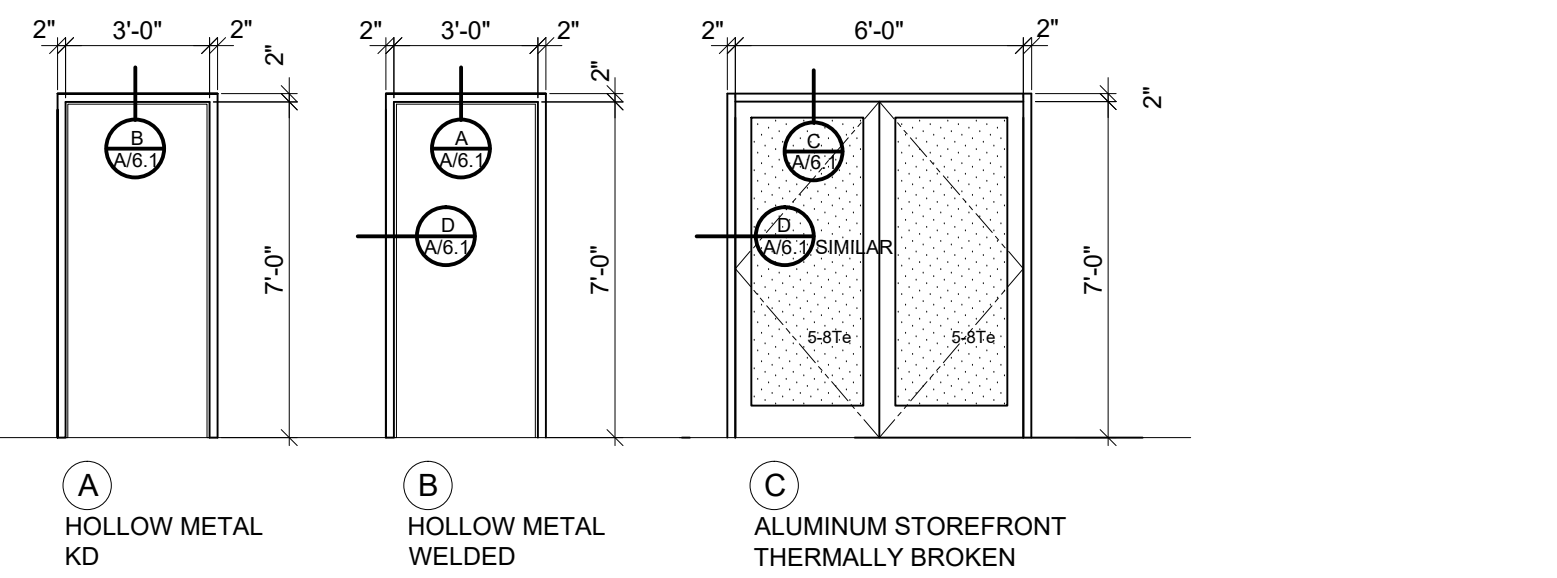
**GENERAL NOTES**

- 1. DOOR AND WINDOW STOPS AND TRIM SHALL BE ALUMINUM STOREFRONT MANUFACTURER'S STANDARD. REINFORCE ALUMINUM JAMBS FOR HINGE ATTACHMENT.
- 2. ALUMINUM STOREFRONT MANUFACTURER IS RESPONSIBLE FOR PROPER WINDOW STYLE AND FRAME DEPTH FOR SPANS SHOWN.
- 3. ALL DIMENSIONS SHOWN THIS SHEET ARE FOR BIDDING PURPOSES ONLY. ALL DIMENSIONS SHALL BE VERIFIED BY THE SUCCESSFUL CONTRACTOR(S) BEFORE SUBMITTING SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL.
- 4. FLOAT GLASS MAY BE USED INSTEAD OF TEMPERED GLASS, AS ALLOWED BY THE IBC (INTERNATIONAL BUILDING CODE). TEMPERED GLASS SHALL BE REQUIRED AT HAZARDOUS LOCATIONS.

ROOM FINISH SCHEDULE								
RM. NO.	NAME	FLOORS	BASE	WALLS	CEILINGS	CEILING HEIGHT	REMARKS	RM. NO.
101	VESTIBULE	CERAMIC	CT	PGB	AT	9'-0"		101
102	RECEPTION	CERAMIC	CT	PGB	AT	9'-0"		102
103	P.T. (PUBLIC TOILET)	CERAMIC	CT	PGB	AT	8'-0"		103
104	MECHANICAL	SEALED CONCRETE	VC	PGB	PGB	10'-0"		104
105	WOMEN'S TOILET	CERAMIC	CT	PGB	AT	8'-0"		105
106	MEN'S TOILET	CERAMIC	CT	PGB	AT	8'-0"		106
107	KITCHEN	CERAMIC	CT	PGB	AT	9'-0"		107
108	FILE ROOM	SEALED CONCRETE	VC	PGB	AT	9'-0"		108
109	CONFERENCE ROOM	LVT	VC	PGB	AT	9'-0"		109
110	OFFICE	LVT	VC	PGB	AT	9'-0"		110
111	OFFICE	LVT	VC	PGB	AT	9'-0"		111
112	CORRIDOR	CERAMIC	CT	PGB	AT	9'-0"		112

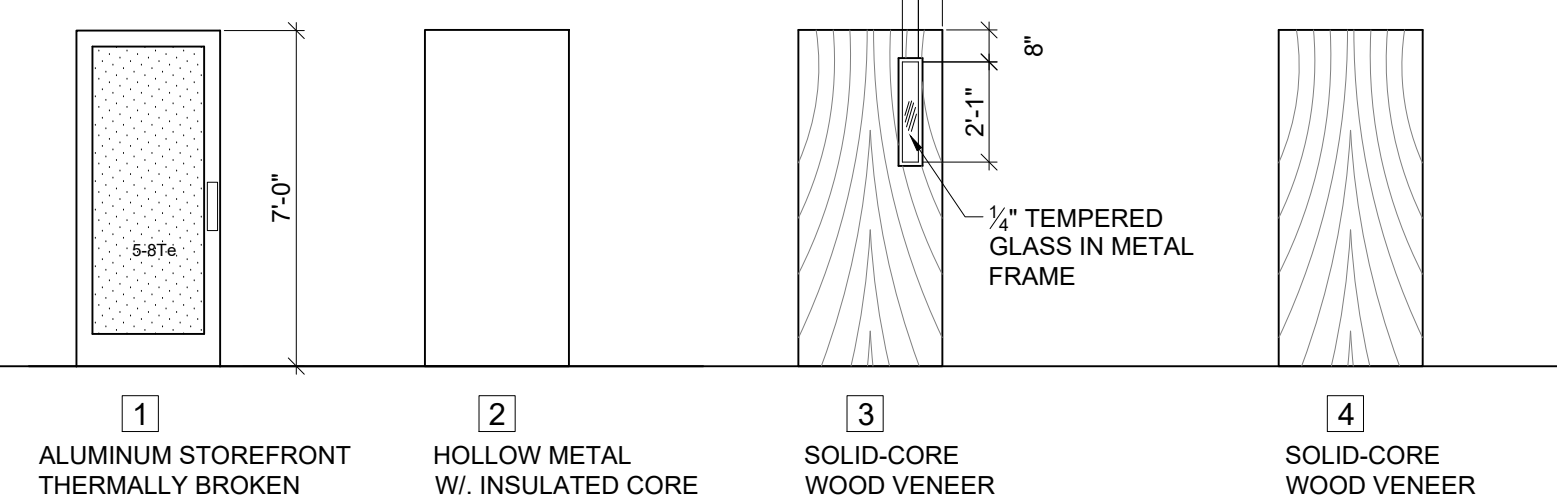


**TYPICAL WALLS / PARTITIONS**  
SCALE: 1 1/2" = 1'-0"



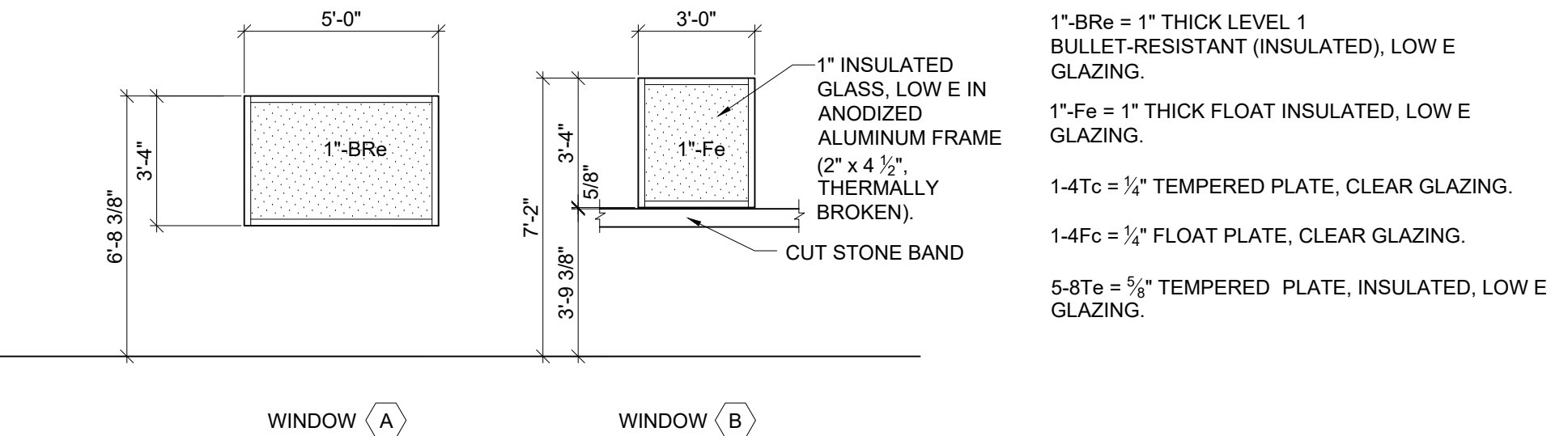
**FRAME TYPES**

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



**DOOR TYPES**

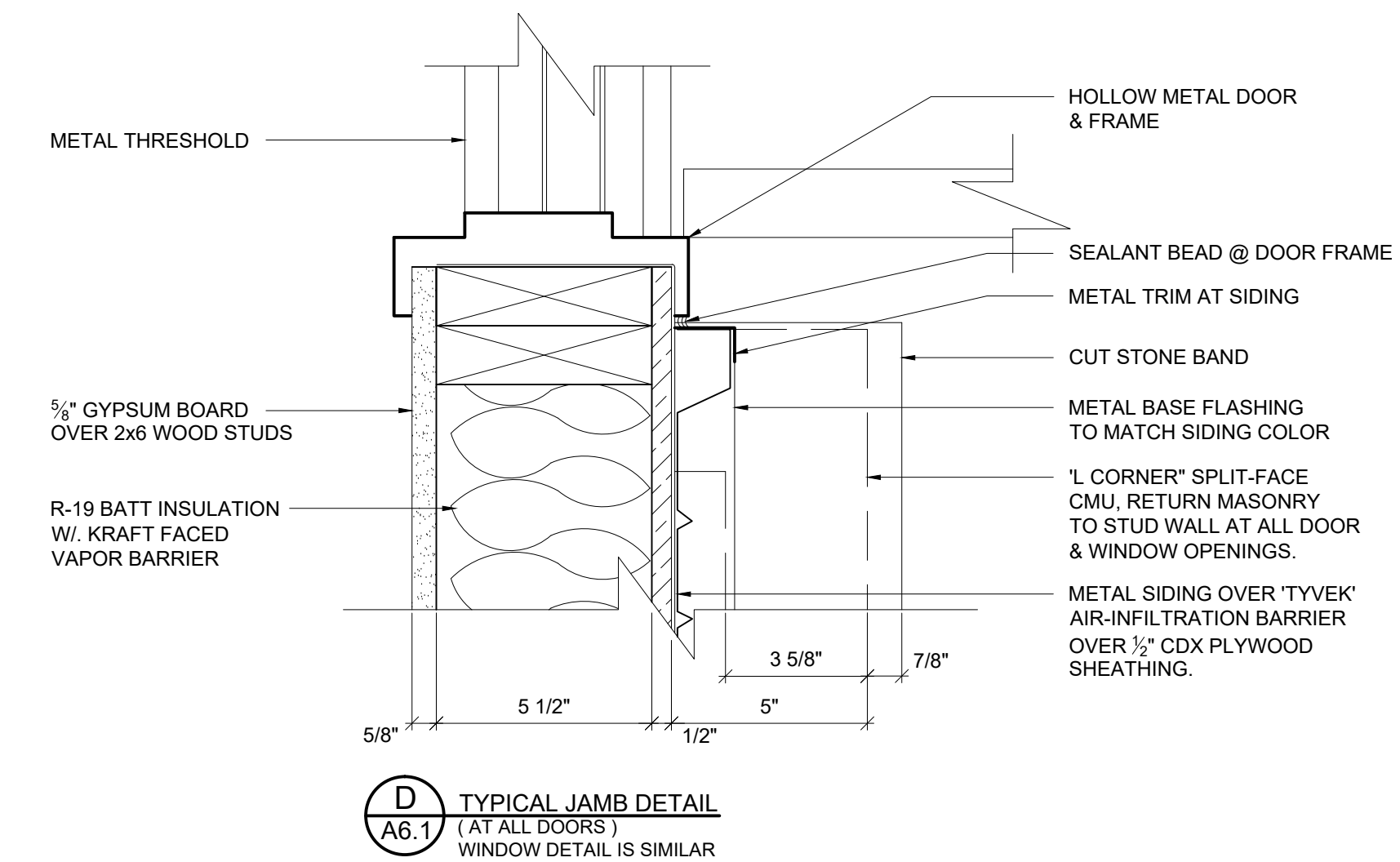
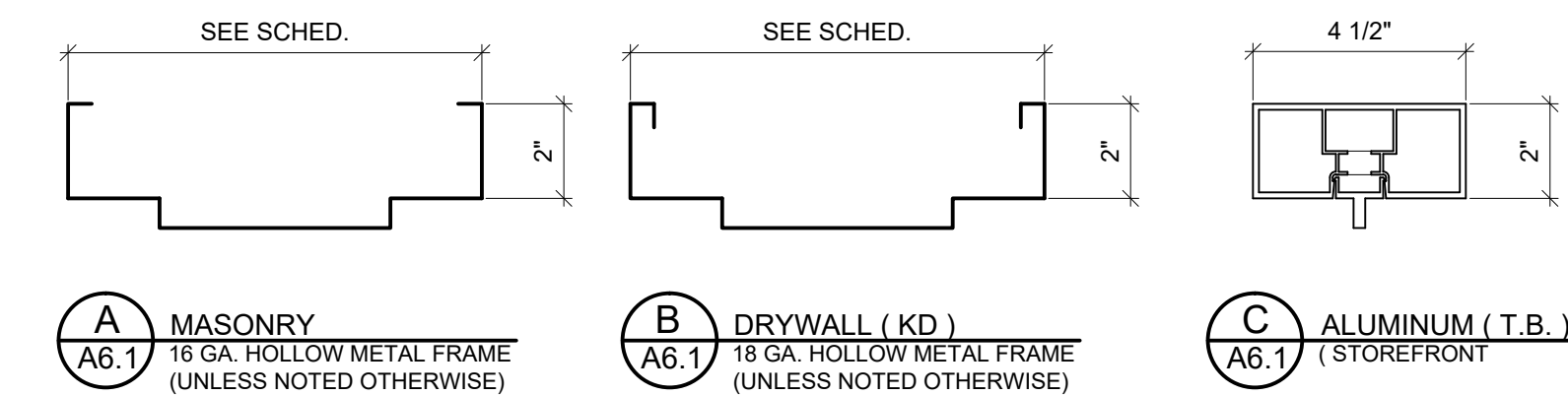
SCALE: 1/4" = 1'-0"



**WINDOW TYPES**

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

- LEGEND:
- LVT = LUXURY VINYL TILE
  - VCT = VINYL COMPOSITION TILE
  - CT = CERAMIC TILE
  - VC = VINYL COVE BASE
  - PGB = PAINTED GYPSUM BOARD
  - AT = ACOUSTICAL TILE
- LEGEND:
- 1. USE WATER-RESISTANT GYPSUM BOARD AT PLUMBING WALLS.



**JAMB DETAILS**

SCALE: 3" = 1'-0"

**RECORD DRAWINGS**

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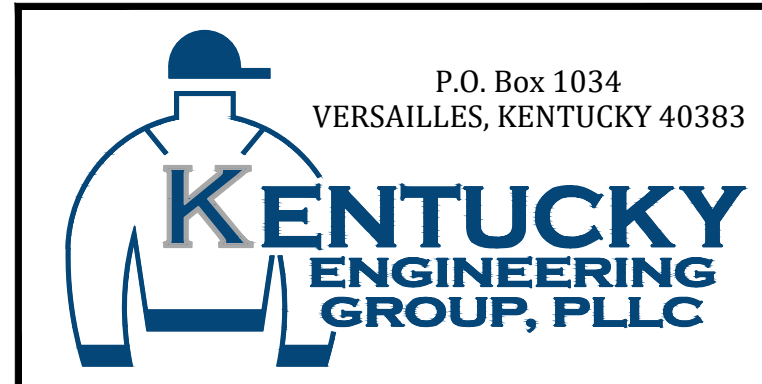
BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020

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DATE:	NOVEMBER 2017
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DRAWN BY:	
CHECKED BY:	JBE
SCALE:	AS NOTED
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**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE WATER DISTRICT



PROJECT NO.  
**15036**

SHEET NO.  
**A6.1**



GENERAL NOTES

DESIGN LIVE LOADS
FLOOR LIVE LOAD
SLAB ON GRADE
ROOF LIVE LOAD
ROOF SNOW LOAD (PER ASCE 7-10)
GROUND SNOW LOAD
IMPORTANCE FACTOR
SNOW EXPOSURE FACTOR
THERMAL FACTOR
RAIN ON SNOW SURCHARGE
FLAT-ROOF SNOW LOAD
SLOPED-ROOF SNOW LOAD
WIND LOAD (PER ASCE 7-10)
ULTIMATE DESIGN WIND SPEED
NOMINAL DESIGN WIND SPEED
RISK CATEGORY
WIND EXPOSURE
INTERNAL PRESSURE COEFFICIENT

- STRUCTURE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE CORRECTED BY THE RESPONSIBLE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
SHOP DRAWINGS MUST BE CHECKED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION.
NON-STRUCTURAL ELEMENTS OF THE BUILDING (ARCHITECTURAL FINISHES, MASONRY VENEER AND ASSOCIATED TIES, INSULATION SHEATHING, DUCTWORK, PIPING, ETC.) ARE TYPICALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS.

- FOR 4" MASONRY WALLS PROVIDE:
SPAN LIMITS
ANGLE SIZE
FOR 8" MASONRY WALLS PROVIDE:
SPAN LIMITS
LINTEL SIZE
FOR 12" MASONRY WALLS PROVIDE:
SPAN LIMITS
LINTEL SIZE

MASONRY WALL CONSTRUCTION

- MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-1/ASCE 5-11/TMS 402-11).
MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530-1/ASCE 5-11/TMS 402-11) AND THE PROJECT SPECIFICATIONS.
DETERMINE COMPRESSIVE STRENGTH OF MASONRY (fm) BY THE UNIT STRENGTH METHOD (SECTION 1.4.2 OF ACI 530-1/ASCE 5-11/TMS 402-11).
MATERIALS:
C.M.U. - ASTM C55 OR C90
GROUT - ASTM C476
MORTAR - TYPE M OR S
USE TYPE M MORTAR FOR C.M.U. BELOW GRADE OR IN CONTACT WITH EARTH; USE TYPE S MORTAR FOR C.M.U. ELSEWHERE.

Table with 4 columns: GROUT TYPE, MAXIMUM GROUT POUR HEIGHT, MINIMUM WIDTH OF GROUT SPACE, MINIMUM GROUT SPACE DIMENSIONS FOR GROUTING CELLS OF HOLLOW UNITS. Rows include FINE, COARSE, and COARSE 24" for various heights and spacings.

- CONSOLIDATE GROUT POURS 12 INCH OR LESS IN HEIGHT BY MECHANICAL VIBRATION OR PUDDLING.
WOOD STRESS GRADE FOR ALL STRUCTURAL FRAMING MEMBERS.

WOOD CONSTRUCTION

- FRAMING PLANS ARE SCHEMATIC. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
WOOD STRESS GRADE FOR ALL STRUCTURAL FRAMING MEMBERS.
2x4 = SPRUCE PINE FIR, STUD GRADE
2x6 = SPRUCE PINE FIR, NO. 2 GRADE
2x8, 2x10, 2x12 = SOUTHERN PINE, NO. 2 GRADE

Table with 2 columns: CLEAR SPAN, MEMBER SIZE. Rows include 0' TO 5'-0", 5'-0" TO 7'-0", 7'-0" TO 9'-0", 9'-0" TO 11'-0".

- SEE DRAWINGS FOR HEADERS AT BEARING WALLS.
CUTTING / NOTCHING OF JOISTS AND BEAMS SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
HOLES NOT GREATER IN DIAMETER THAN 30 PERCENT OF THE STUD WIDTH MAY BE BORED INTO SINGLE-PLY WOOD STUDS PROVIDED NOT MORE THAN TWO SUCCESSIVE STUDS ARE SO BORED.

ROOF, FLOOR, OR WALL OPENINGS

- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE NUMBER, SIZE, AND LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED FOR MECHANICAL OR ELECTRICAL ITEMS.
SLEEVES AND OPENINGS SHALL BE LOCATED IN A MANNER THAT WILL MAINTAIN THE STRUCTURAL INTEGRITY OF THE ROOF, FLOOR, OR WALL SYSTEM.

LOOSE LINTEL SCHEDULE

- THIS SCHEDULE IS FOR LINTELS OVER MASONRY OPENINGS NOT OTHERWISE SHOWN OR NOTED ON DRAWINGS.
ANGLES AND SUPPORT PLATES EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.
MINIMUM BEARING LENGTH FOR ANGLES AND WT'S SHALL BE 6" EACH END.

- WOOD FRAMING MEMBERS, INCLUDING WOOD SHEATHING, THAT REST ON EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8" FROM EXPOSED EARTH SHALL BE OF PRESERVATIVE-TREATED WOOD.

PREFABRICATED WOOD TRUSS CONSTRUCTION

- TRUSSES TO BE SPACED AT 24" O.C. MAXIMUM. WEB ARRANGEMENT TO BE MANUFACTURER'S STANDARD UNLESS OTHERWISE NOTED ON DRAWINGS.
ALL MEMBER CONNECTIONS TO BE GALVANIZED STEEL.
ALL TEMPORARY BRACING SHALL COMPLY WITH THE LATEST EDITION OF HB-91 AS PUBLISHED BY THE TRUSS PLATE INSTITUTE. SPACERS SHALL NOT BE USED FOR TEMPORARY BRACING.
PERMANENT BRACING FOR INDIVIDUAL MEMBERS OF A WOOD TRUSS COMPONENT IS TO BE SHOWN ON THE TRUSS DESIGN DRAWINGS AND SHALL BE INSTALLED BY THE BUILDING CONTRACTOR.

DEMOLITION AND RECONSTRUCTION NOTES

- EXTENT OF SLAB REPLACEMENT FOR INSTALLATION OF NEW UTILITIES, ETC. NOT SHOWN. CONTRACTOR TO COORDINATE SUCH WORK W/ SUBCONTRACTORS DURING BID.
AT NEW OPENINGS IN MASONRY WALLS WHICH EXTEND DOWN TO FLOOR, REMOVE MASONRY TO 8" MINIMUM BELOW FINISHED FLOOR AND INFILL W/ NEW FLOOR SLAB.
WHERE EXISTING CONCRETE SLAB ON GRADE IS REMOVED AND REPLACED, LEVEL AND FILL EXISTING SUBGRADE WITH NEW CRUSHED STONE AS REQUIRED FOR PREPARATION OF NEW SLAB.

STRUCTURAL ABBREVIATIONS

Table mapping abbreviations to full names: APA AMERICAN PLYWOOD ASSOCIATION, ARCH ARCHITECTURAL, BOTM BOTTOM, CLR CLEAR, CANT CANTILEVER BEAM, etc.

MATERIAL LEGEND

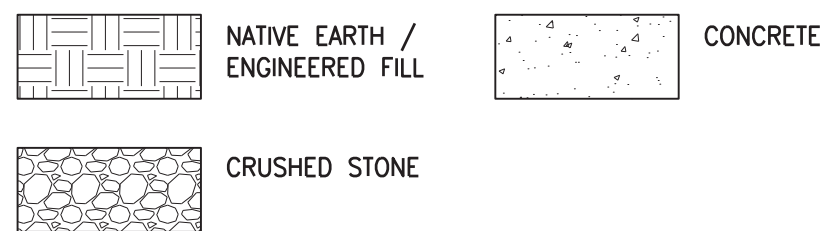


Table with 6 columns: EFFECTIVE WIND AREA (SQ. FT.), LOCATION PER ASCE 7-10 (1-5), and wind speed values for 10, 20, 50, 100, and 500 ft heights.

- LOADING PROVIDED ARE ULTIMATE (LRF) LOADING. FOR ALLOWABLE STRESS DESIGN MULTIPLY LOADS PROVIDED BY 0.8.
LOADING PROVIDED IS FOR WORST CASE ROOF HEIGHT. DELEGATED DESIGNERS MAY RECALCULATE LOADS FOR SPECIFIC COMPONENT HEIGHTS USING PARAMETERS SPECIFIED.
PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE.
PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.

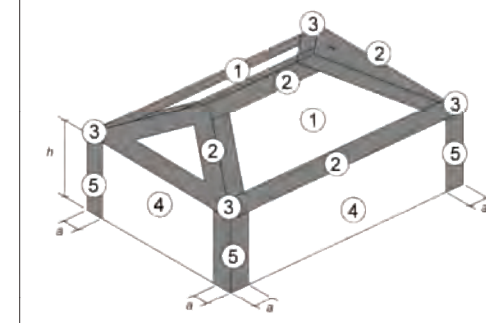


Table with 2 columns: EARTHQUAKE DESIGN DATA (COUNTY / STATE, RISK CATEGORY, IMPORTANCE FACTOR, etc.) and values (e.g., GRAYSON / KENTUCKY, CATEGORY II, S1 = 0.078).

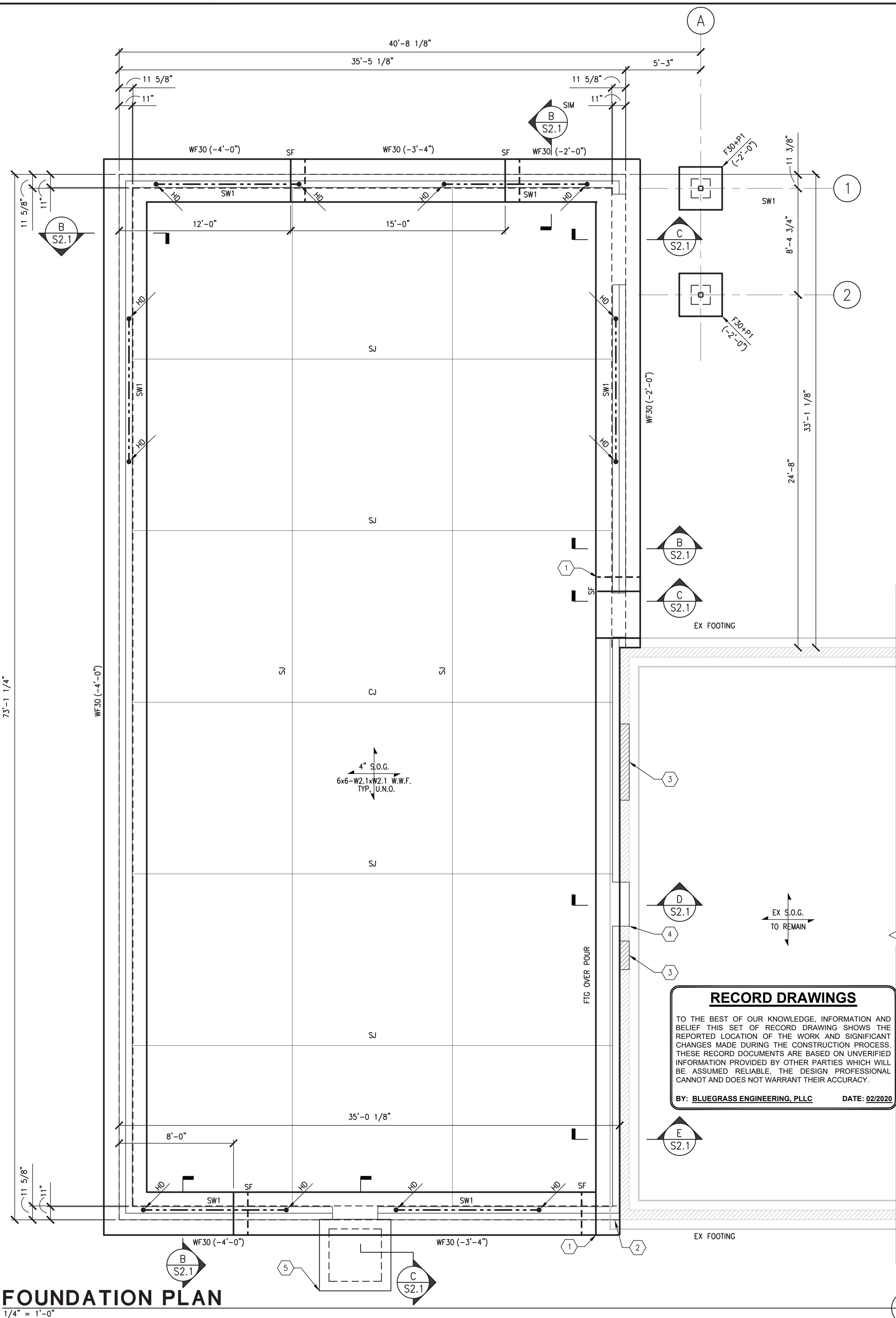
Table with 2 columns: DESIGN STRESSES (CONCRETE STRENGTH DESIGN MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS, FOOTINGS, INTERIOR SLABS ON GRADE AND PIERS, etc.) and values (e.g., fc = 3,000 PSI, fy = 60,000 PSI).

- THE REQUIREMENTS OF THESE GENERAL NOTES APPLY UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK.
ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWING SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS.

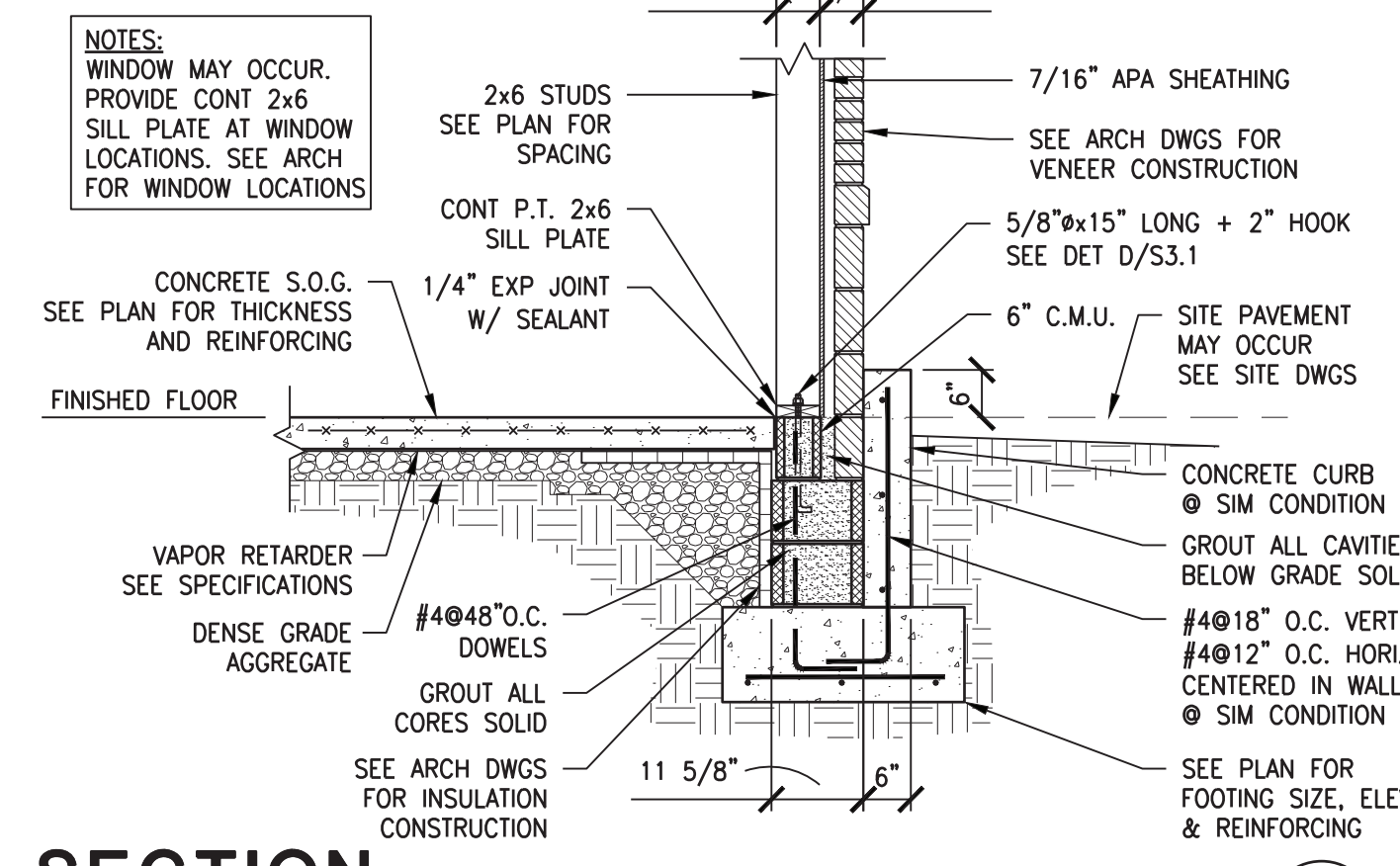
AS-BUILT DRAWINGS
BROWN + KUBICAN STRUCTURAL ENGINEERS PSC
PHASE 11 WATER SYSTEM IMPROVEMENTS
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT
GENERAL NOTES
DATE: NOVEMBER 2017, DRAWING: MSC, CHECKED: DK, REVISIONS: S1.1



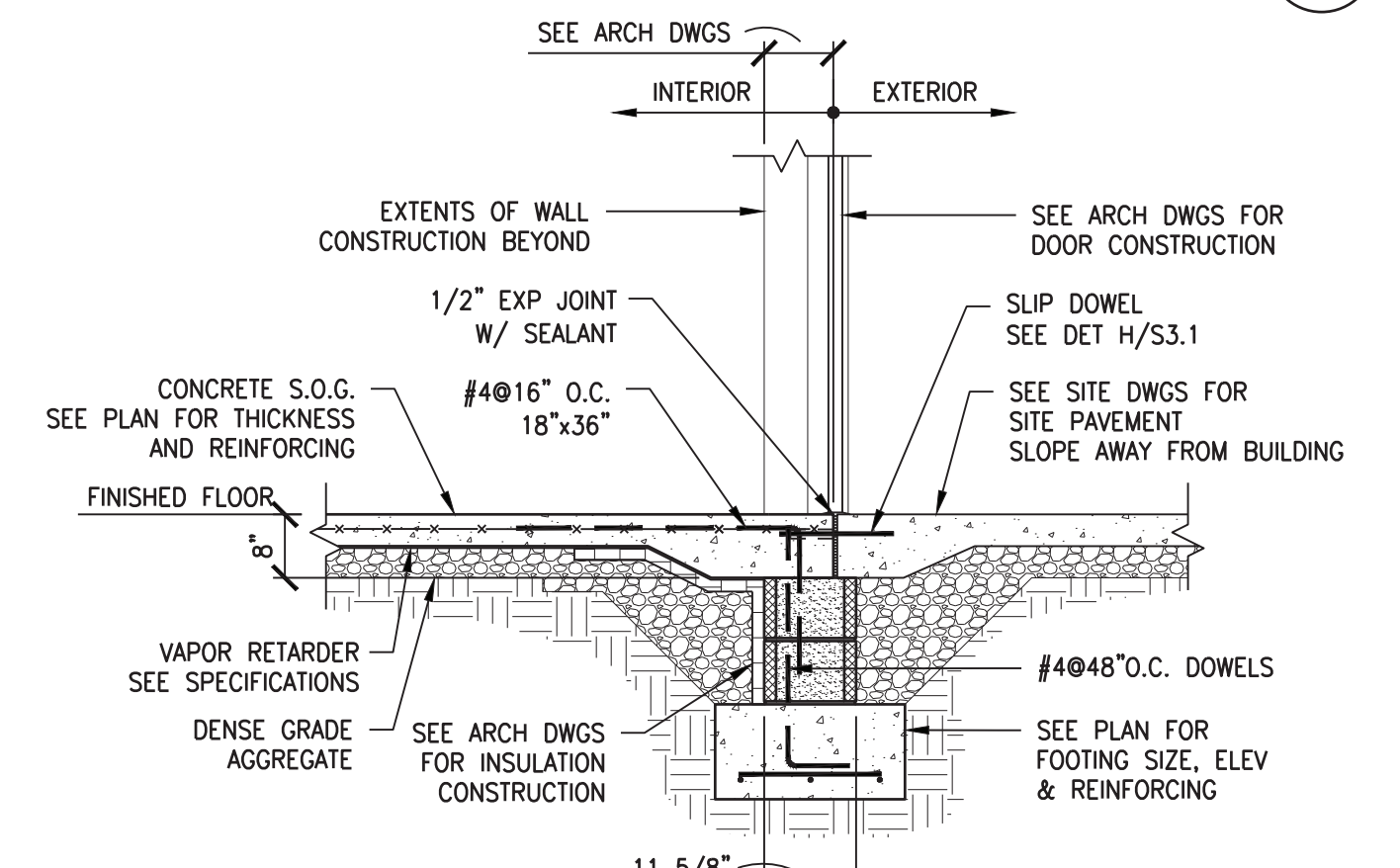


**FOUNDATION PLAN**  
1/4" = 1'-0"

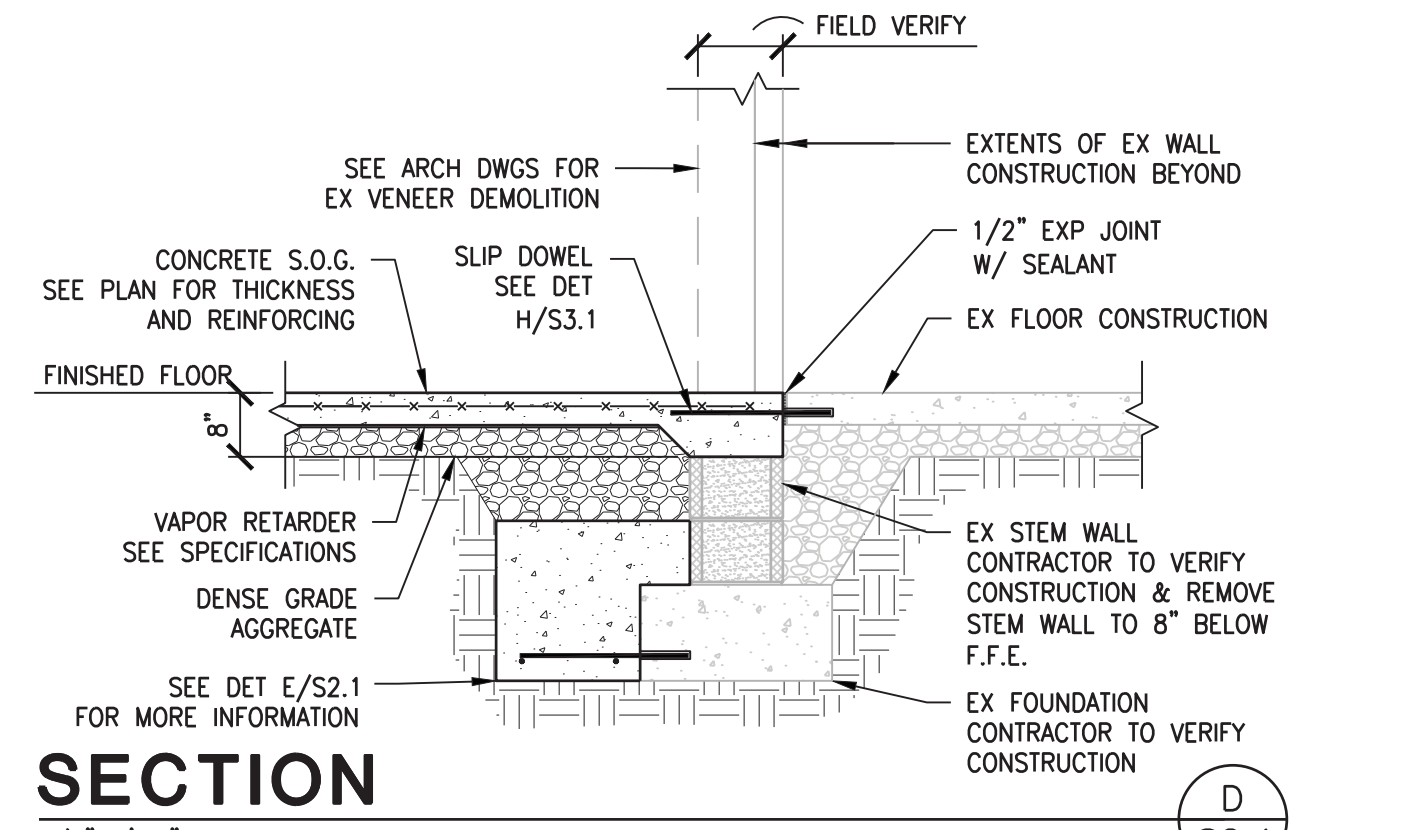
**RECORD DRAWINGS**  
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BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020



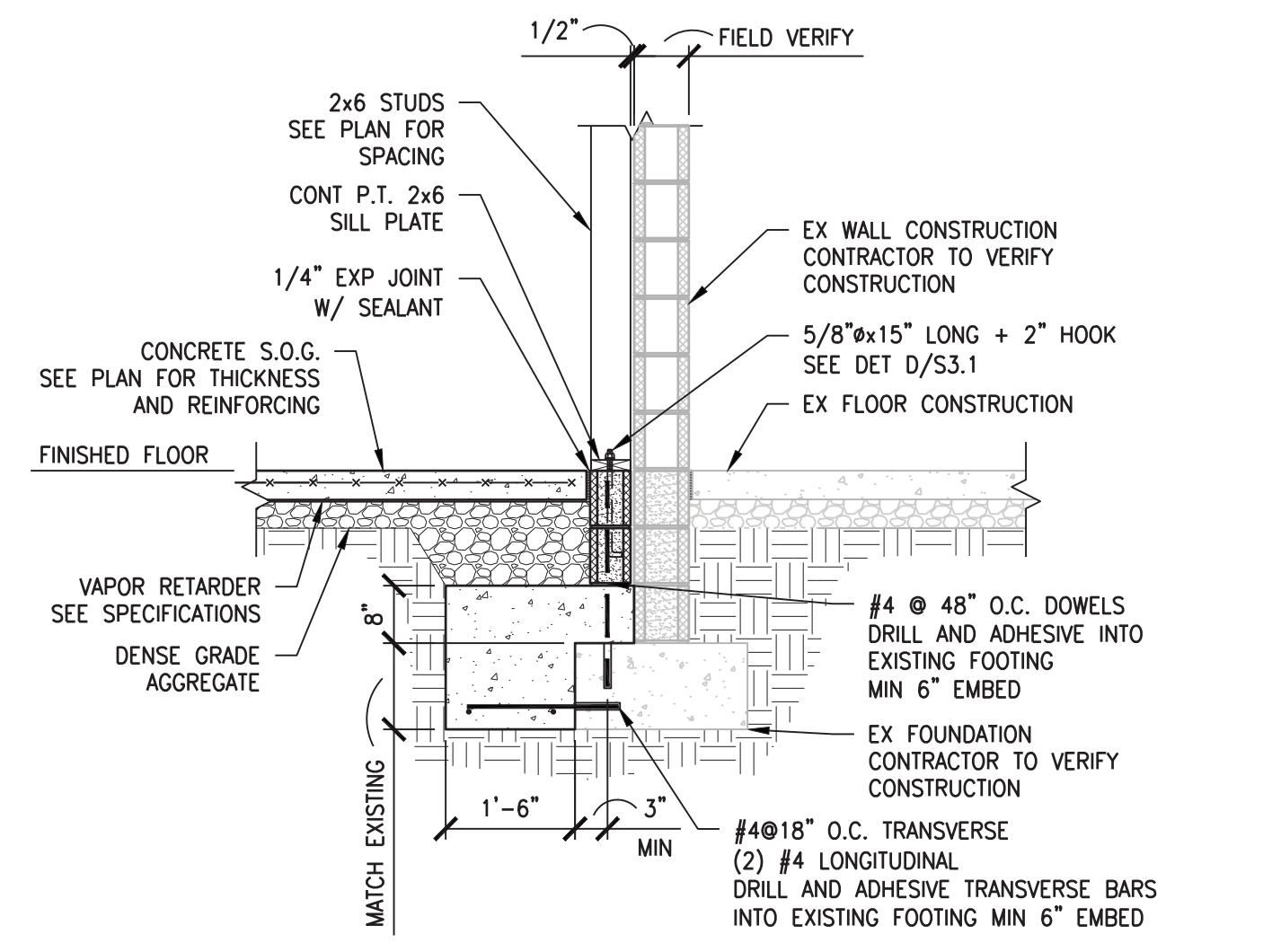
**SECTION 1**  
1/2" = 1'-0"



**SECTION 2**  
1/2" = 1'-0"



**SECTION 3**  
1/2" = 1'-0"



**SECTION 4**  
1/2" = 1'-0"

**PLAN NOTES**

- ELEVATIONS SHOWN ARE TO THE TOP OF THE FOUNDATION AND ARE REFERENCED FROM ADDITIONAL FINISHED FLOOR REFERENCE ELEVATION (0'-0").
- CENTER ALL WALL FOOTINGS ON WALL CENTERLINE U.N.O.
- CENTER ALL SPREAD FOOTINGS ON COLUMN GRID INTERSECTION U.N.O.
- SEE DWG S1.1 FOR GENERAL NOTES.
- SEE DWG S3.1 FOR TYPICAL FOUNDATION DETAILS.
- SLAB ON GRADE SHALL BE PLACED ON VAPOR RETARDER (SEE SPECIFICATIONS) OVER 4" MINIMUM DENSE GRADE AGGREGATE.
- ALL EXTERIOR DIMENSIONS TO EXTERIOR FACE OF BRICK VENEER, U.N.O. SEE SECTIONS FOR DIMENSIONS NOT SHOWN.
- SEE ARCHITECTURAL AND SITE DRAWINGS FOR CONTOUR AND LAYOUT OF SITE WALKS. VERIFY ALL EXISTING CONDITIONS RELEVANT TO HIS WORK PRIOR TO CONSTRUCTION.
- EXISTING CONSTRUCTION SHOWN IS BASED ON GENERAL CONSTRUCTION PRACTICE AND IS NOT GUARANTEED TO BE TRUE OR EXACT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS RELEVANT TO HIS WORK PRIOR TO CONSTRUCTION.
- COORDINATE SIZE AND LOCATION OF ALL FLOOR PENETRATIONS WITH ARCH & MECH/PLUMBING DWGS.
- PRIOR TO POURING FOUNDATION, CONTRACTOR SHALL VERIFY THAT PLUMBING AND UTILITY REQUIREMENTS DO NOT CONFLICT WITH FOOTING EXCAVATION AND/OR LOCATIONS.
- WHERE NEW OPENINGS OCCUR IN EXISTING WALLS, REMOVE THE EXISTING WALL AND STEM WALL TO 8" BELOW FINISHED FLOOR ELEVATION. SEE ARCH DWGS FOR DIMENSIONS AND EXACT LOCATIONS OF NEW OPENINGS.

**LEGEND**

- F40 = SPREAD FOOTING. SEE SCHEDULE.
- WF20 = WALL FOOTING. SEE SCHEDULE.
- SF = STEP FOOTING. SEE DET C/S3.1.
- (-0'-8") = TOP OF FOOTING ELEVATION.
- SJ = SAWN CONTRACTION JOINT. SEE DET H/S3.1.
- CJ = CONSTRUCTION JOINT. SEE DET H/S3.1.
- S.O.G. = SLAB ON GRADE.
- = C.M.U. STEM WALL. SEE SECTIONS FOR REINFORCEMENT AND THICKNESS.
- = 2x6 @ 16" O.C. LOAD-BEARING WOOD STUDY WALL, U.N.O.
- = EXISTING C.M.U. WALL. CONTRACTOR TO VERIFY CONSTRUCTION IN FIELD.
- = EXTENT OF SHEAR WALL. SEE DET C/S4.1.
- = SHEARWALL OR POST HOLDDOWN. SEE DET D/S3.1.

**TAG NOTES**

- STEP FOOTING AS REQUIRED TO MATCH EXISTING TOP OF FOOTING ELEVATION. DRILL AND ADHESIVE FOOTING LONGITUDINAL BARS INTO EXISTING FOOTING W/ 6" EMBED. BOTTOM OF NEW FOOTING SHALL NOT BE HIGHER THAN 24" BELOW GRADE.
- WHERE NEW WALL IS ABOVE EXISTING FOOTING, DRILL AND EPOXY WALL DOWELS INTO EXISTING FOOTING W/ 6" EMBED.
- INFILL EXISTING WALL OPENING. LEAVE EXISTING LINTEL IN PLACE. SEE ARCH DWGS FOR ADDITIONAL INFORMATION.
- SAWCUT AND REMOVE EXISTING CMU FOR NEW OPENING. TOOTH IN NEW JAMBS. GROUT JAMBS SOLID BELOW LINTEL BEARING DOWN TO FOUNDATION. SEE DET D/S4.1 FOR NEW LINTEL. SEE ARCH DWGS FOR MORE INFORMATION.
- 5'-0" x 5'-0" x 0'-4" CONCRETE SLAB W/ 6x6 - W2.1xW2.1 W.W.F. TURN DOWN EDGES 12" W x 18" D W/ #4 BAR TOP AND BOTTOM W/ LIGHT BROOM FINISH @ DOOR EXTERIOR.

**WALL FOOTING SCHEDULE**

MARK	SIZE (WIDTH X DEPTH)	REINFORCING CONT. BOTTOM
WF30	3'-0" x 1'-0"	(3) #5

PROVIDE #4 TRANSVERSE ERECTION BARS @ 96" O.C.

**SPREAD FOOTING SCHEDULE**

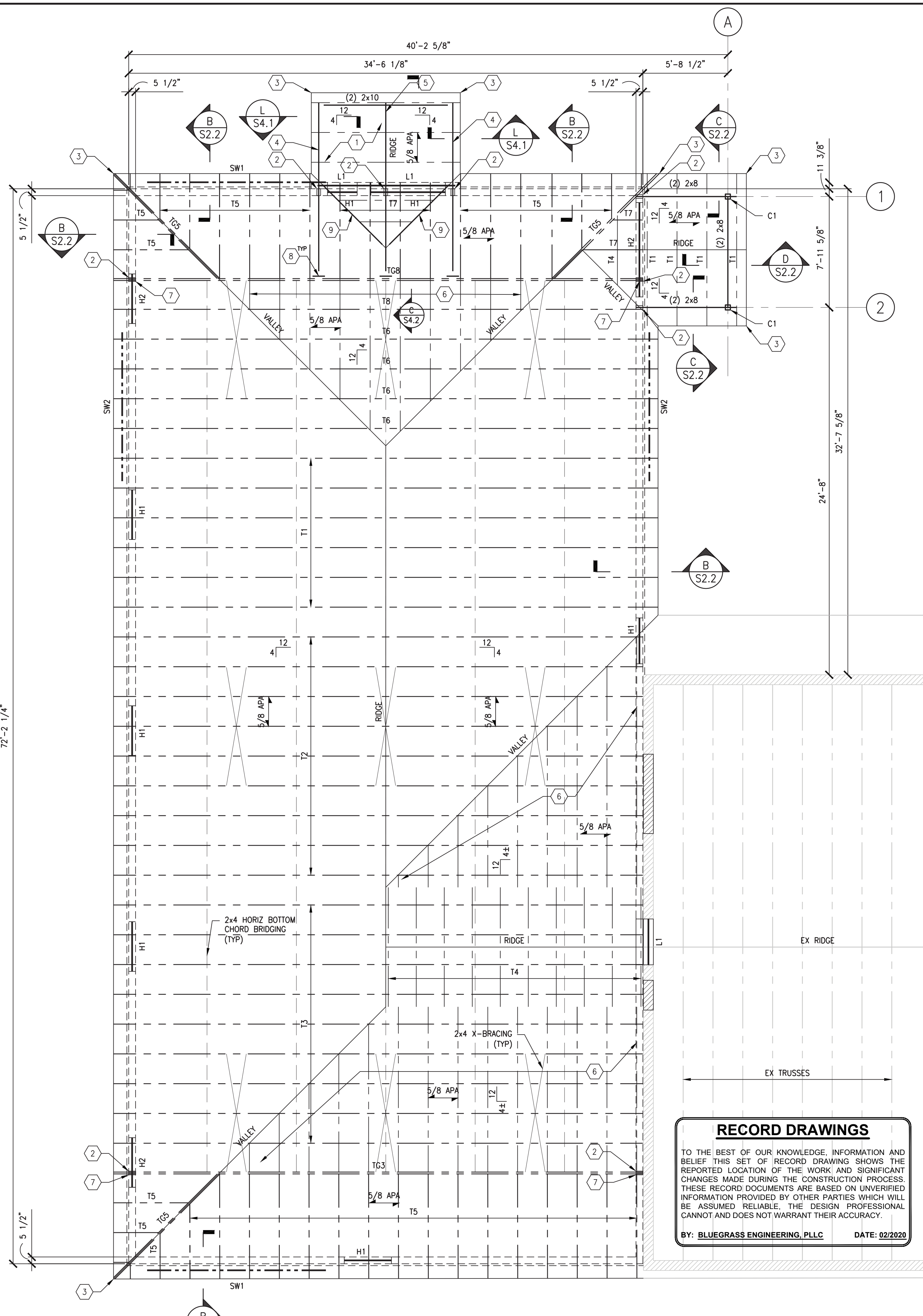
MARK	SIZE	REINFORCING E.W. BOTTOM
F30	3'-0" x 3'-0" x 1'-6"	(3) #5

**IMPORTANT NOTE:**  
UNLESS OTHER ARRANGEMENTS ARE MADE PRIOR TO BID, GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND DIMENSIONS, INCLUDING EXISTING STRUCTURAL LAYOUTS AND ELEVATIONS, PRIOR TO SUBMITTING SHOP DRAWINGS. ACTUAL DIMENSIONS/ELEVATIONS SHALL BE MARKED ON SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER. SUBCONTRACTOR'S SHALL COORDINATE WITH FIELD VERIFIED CONDITIONS RELATIVE TO THEIR WORK.

**BROWN + KUBICAN**  
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DAN KUBICAN, JR.  
20712  
LICENSED PROFESSIONAL ENGINEER  
@BROWN + KUBICAN, PSC

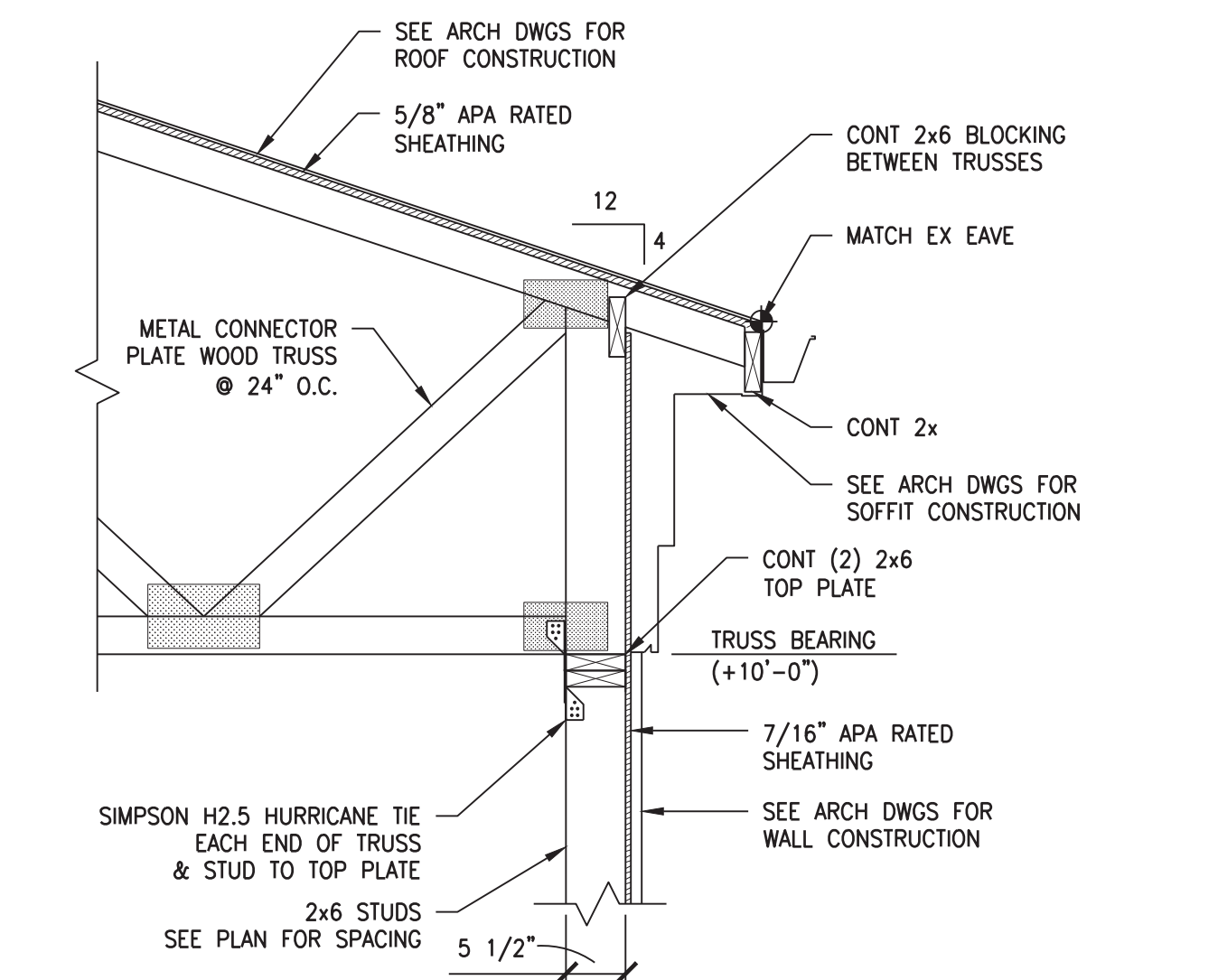
**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT



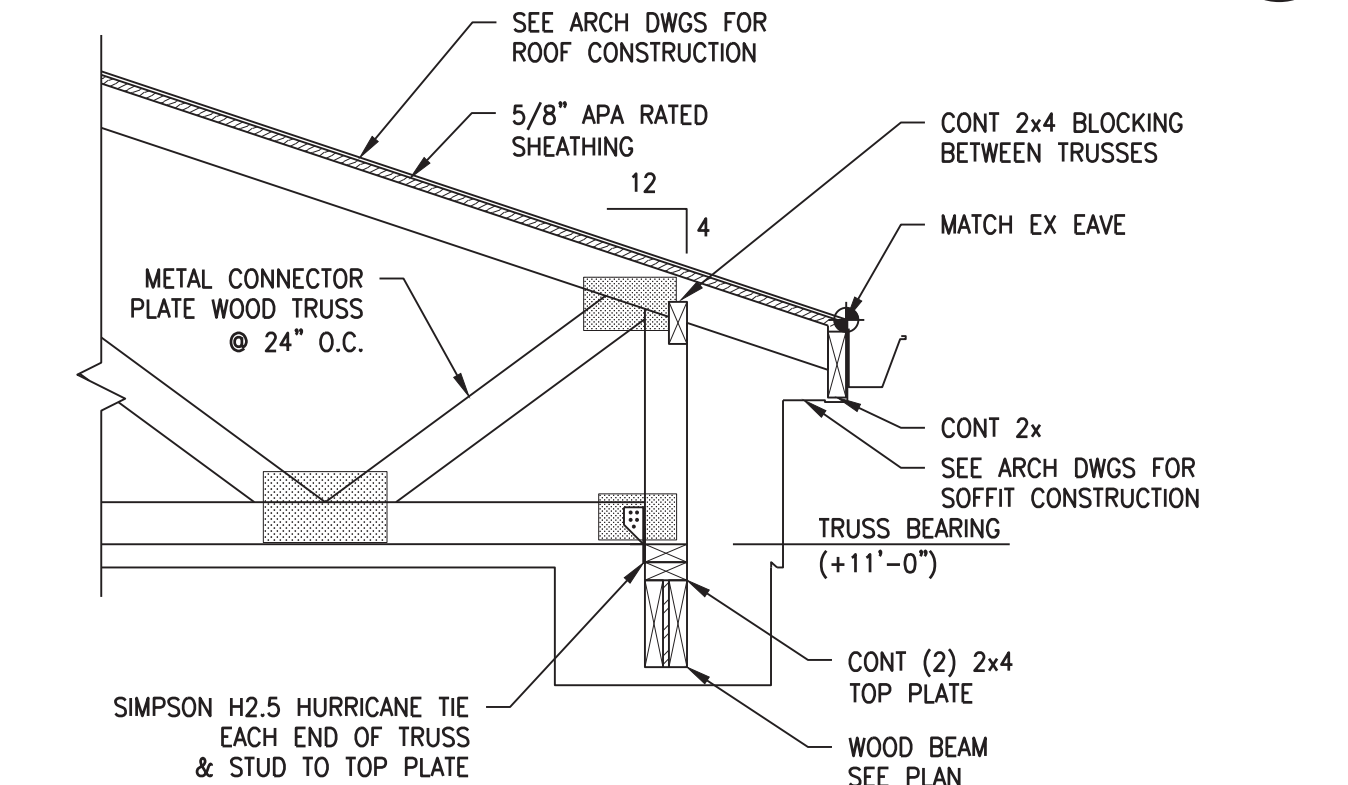


**FRAMING PLAN**  
1/4" = 1'-0"

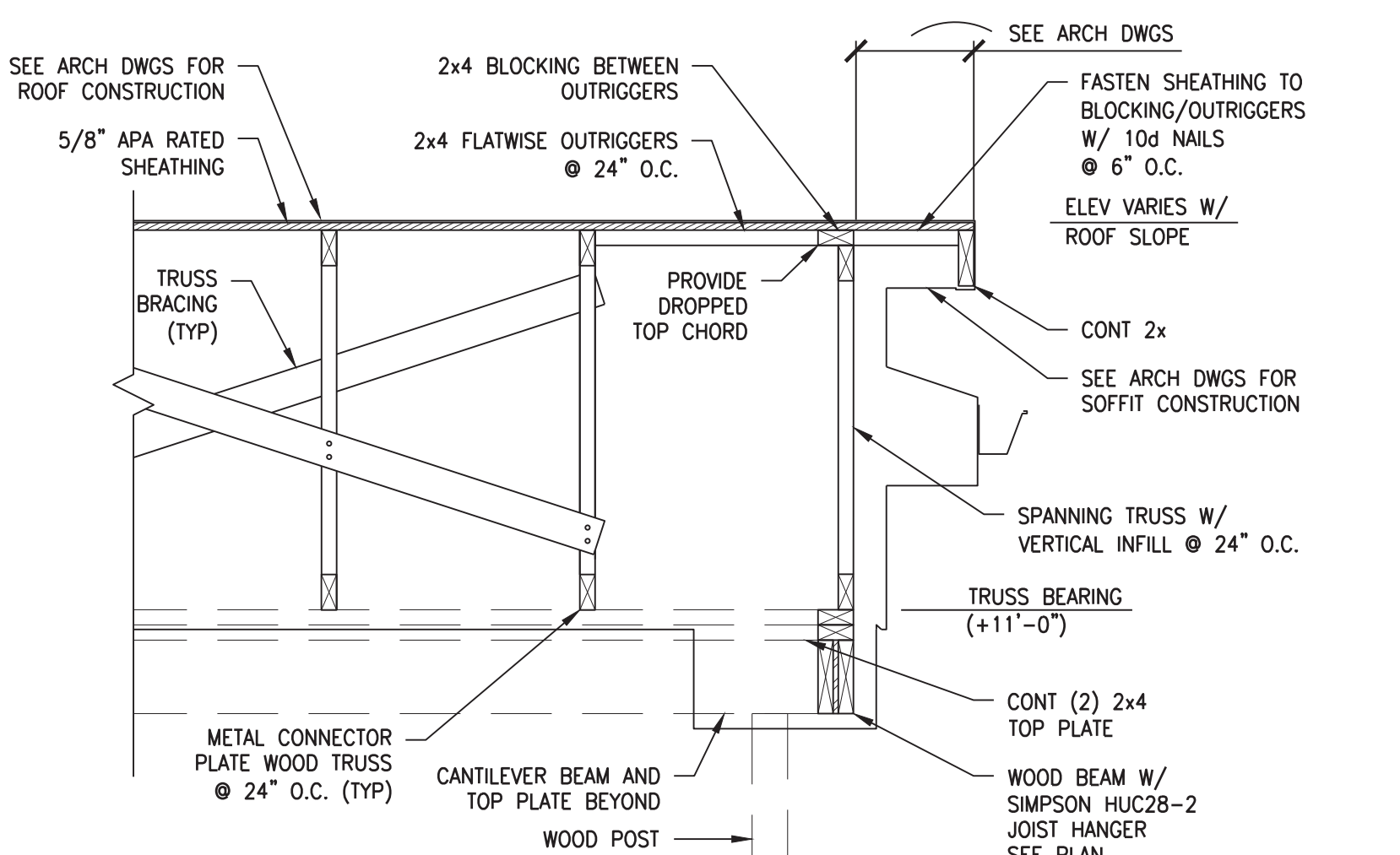
**RECORD DRAWINGS**  
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BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020



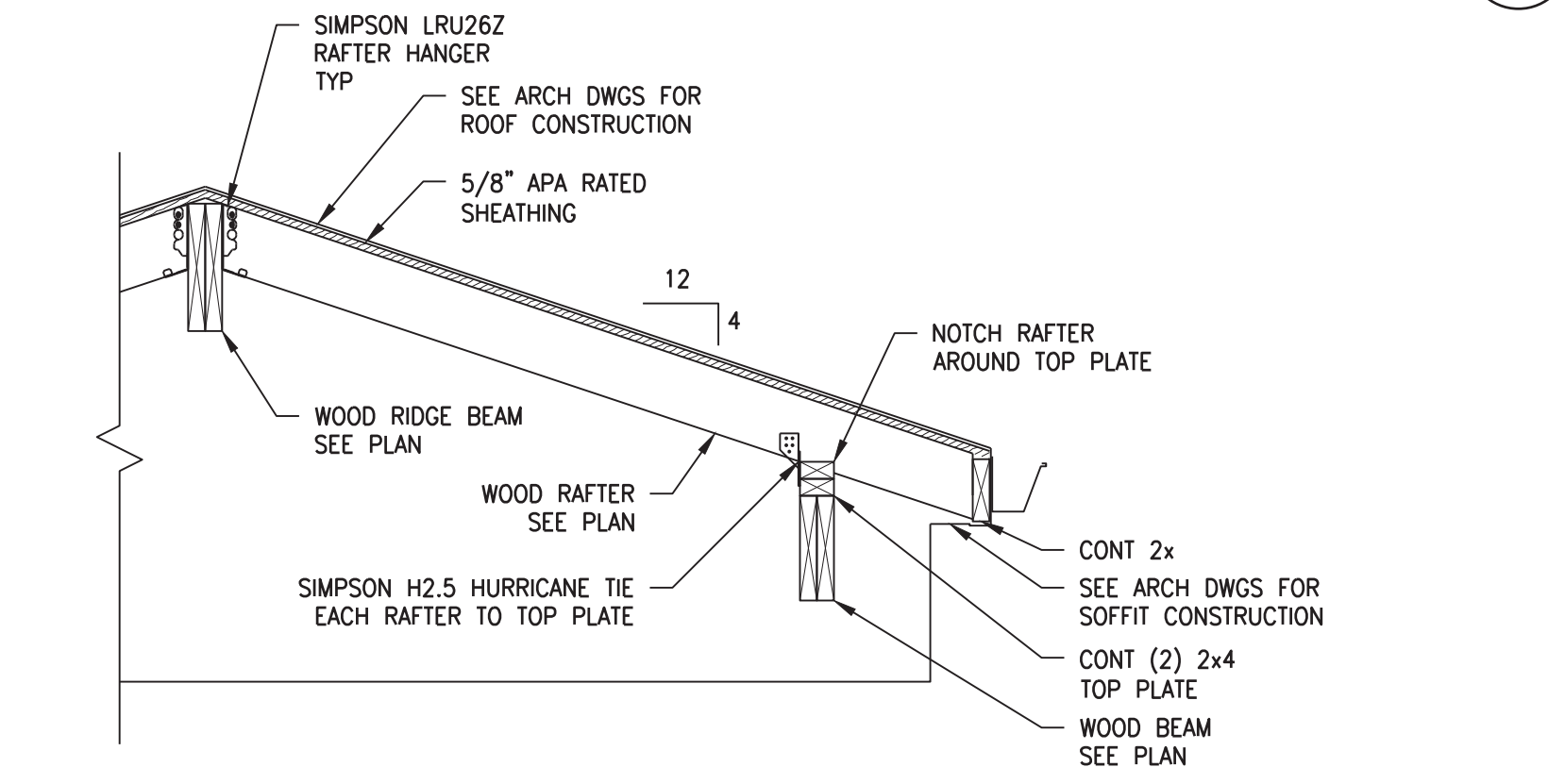
**SECTION B S2.2**  
3/4" = 1'-0"



**SECTION C S2.2**  
3/4" = 1'-0"



**SECTION D S2.2**  
3/4" = 1'-0"



**SECTION E S2.2**  
3/4" = 1'-0"

**PLAN NOTES**

- ELEVATIONS SHOWN ARE TO THE TOP OF THE FRAMING AND ARE REFERENCED FROM EXISTING ADDITION FINISHED FLOOR REFERENCE ELEVATION (0'-0").
- ROOF TRUSS BEARING ELEVATION = (+10'-0").
- SEE DWG S1.1 FOR GENERAL NOTES.
- SEE DWGS S4.1 FOR TYPICAL FRAMING DETAILS.
- SPACE ROOF TRUSSES AT 24" O.C. MAX, U.N.O.
- ROOF PENETRATIONS ARE NOT TYPICALLY SHOWN ON STRUCTURAL DWGS. PROVIDE 2x4 BLOCKING ON ALL 4 SIDES OF ROOF PENETRATION IN NEW AND EXISTING ROOF STRUCTURES. COORDINATE QUANTITY, LOCATION AND DIMENSIONS OF PENETRATIONS WITH ARCH AND MEP DWGS.
- THE QUANTITY OF TRUSSES SHOWN ON THE DRAWING IS CONCEPTUAL. DESIGN, SUPPLY, AND INSTALL THE QUANTITY NECESSARY TO SUPPORT ALL APPLICABLE ROOF LOADS.
- PROVIDE LOOSE LINTEL PER SCHEDULE ON S1.1 OVER ALL MASONRY OPENINGS NOT OTHERWISE SHOWN ON STRUCTURAL DWGS, INCLUDING BUT NOT LIMITED TO MECHANICAL DUCT PENETRATIONS, ETC. IN BRICK WALLS.
- EXISTING CONSTRUCTION SHOWN IS BASED ON GENERAL CONSTRUCTION PRACTICE AND IS NOT GUARANTEED TO BE TRUE OR EXACT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS RELEVANT TO HIS WORK PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL REPLACE ALL SHEATHING ON EXISTING LOAD BEARING WALLS THAT IS REMOVED FOR INSTALLATION OF NEW FRAMING MEMBERS.
- PROVIDE (2) 2x STUD PACK IN STUD WALLS UNDER ALL TRUSS GIRDER BEARING POINTS OTHERWISE NOT NOTED ON PLAN.

**LEGEND**

- 5/8 APA = 5/8" APA RATED ROOF SHEATHING (EXPOSURE 1).
- T1 = PRE-ENGINEERED METAL PLATE CONNECTED WOOD TRUSS @ 2'-0" O.C. SEE DET K/S4.1 FOR TRUSS PROFILES.
- TG3 = PRE-ENGINEERED METAL CONNECTOR PLATE WOOD TRUSS GIRDER. SEE DET K/S4.1 FOR TRUSS PROFILES.
- H1 = WOOD HEADER FOR WOOD STUD WALL OPENING. SEE DET B/S4.1 FOR SCHEDULE. (MARK APPLIES TO OPENING BELOW).
- L1 = STEEL LINTEL FOR BRICK VENEER. SEE DET D/S4.1 FOR SCHEDULE.
- C1 = 4x4 P.T. WOOD POST. PROVIDE SIMPSON AB44 POST BASE W/ (1) 1/2" HILTI HIT-HY 200 MAX ADHESIVE ANCHOR (6" EMBED). PROVIDE SIMPSON BC4 CONNECTION TO BEAM AT TOP.
- 12/4 = ROOF SLOPE.
- SW-1 = EXTENT OF SHEAR WALL. SEE DET C/S4.1.
- 2x6 @ 16" O.C. = 2x6 @ 16" O.C. LOAD-BEARING WOOD STUD WALL, U.N.O.
- EXISTING C.M.U. WALL = EXISTING C.M.U. WALL. CONTRACTOR TO VERIFY CONSTRUCTION IN FIELD.

**TAG NOTES**

- 2x6 @ 2'-0" O.C. MAX RAFTER FRAMING.
- (2) 2x6 WOOD STUD PACK.
- RAFTER OR TRUSS FRAMING AT ROOF CORNER BY TRUSS MANUFACTURER. 2x BAND BOARD AT EAVE SHALL BE CONTINUOUS FOR MINIMUM OF (4) TRUSS BAYS (8 FT) EACH SIDE OF CORNER.
- TWO SPAN CONT (2) 2x10 WOOD BEAM.
- TWO SPAN CONT (2) 2x12 WOOD BEAM.
- CONT 2x4 FLATWISE RUNNERS. SEE DET. A/S4.2.
- SIMPSON LGT2 GIRDER TIEDOWN.
- DESIGN TRUSS GIRDER FOR UPLIFT AT BEAM CONNECTION. RIDGE BEAM: 300 LBS DL, 400 LBS LL UPLIFT. EAVE BEAM: 150 LBS DL, 200 LBS LL UPLIFT.
- 2x10 FLATWISE VALLEY BEAM FOR RAFTER ATTACHMENT. HOLD TRUSS DOWN 1 1/2" BELOW VALLEY BEAMS.

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AS-BUILT DRAWINGS

**BROWN + KUBICAN**  
STRUCTURAL ENGINEERS P.S.C.

2224 Young Drive  
Lexington, KY 40505  
Phone: 859-543-0933  
Fax: 859-543-0733

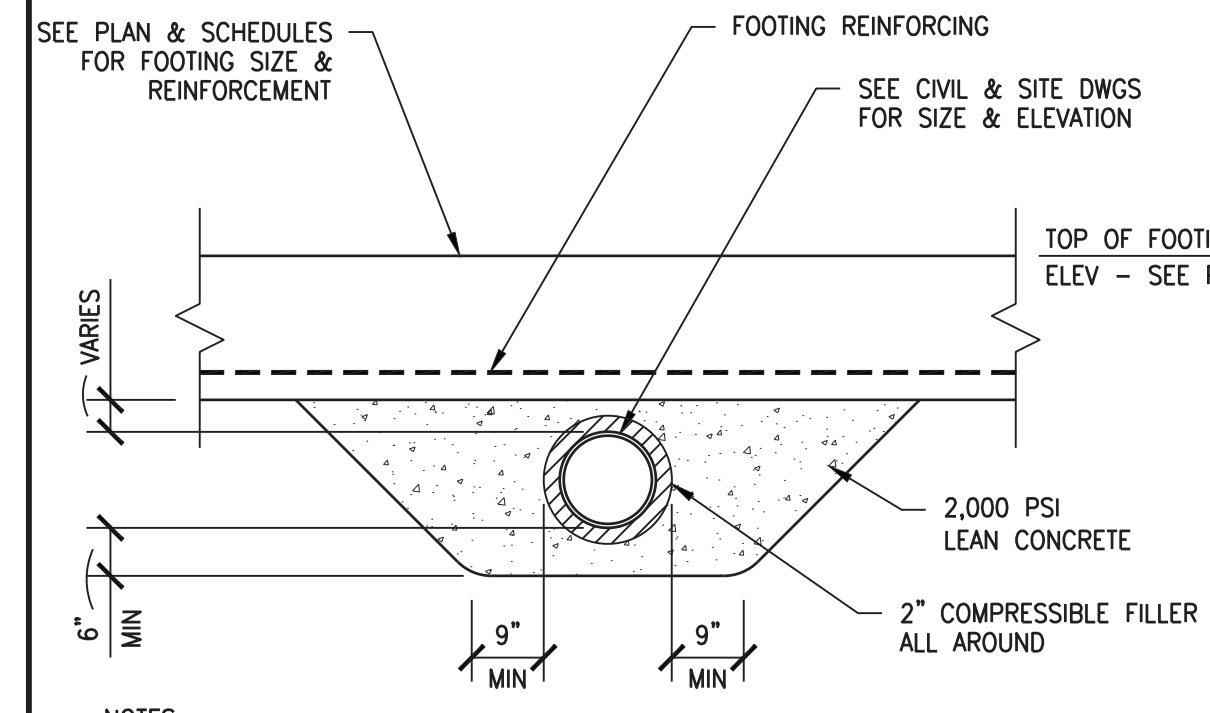


**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT

<b>FRAMING PLAN / SECTION</b>		SHEET NO. S2.2
DATE: NOVEMBER 2017	DRAWN BY: MSC	CHECKED: DK



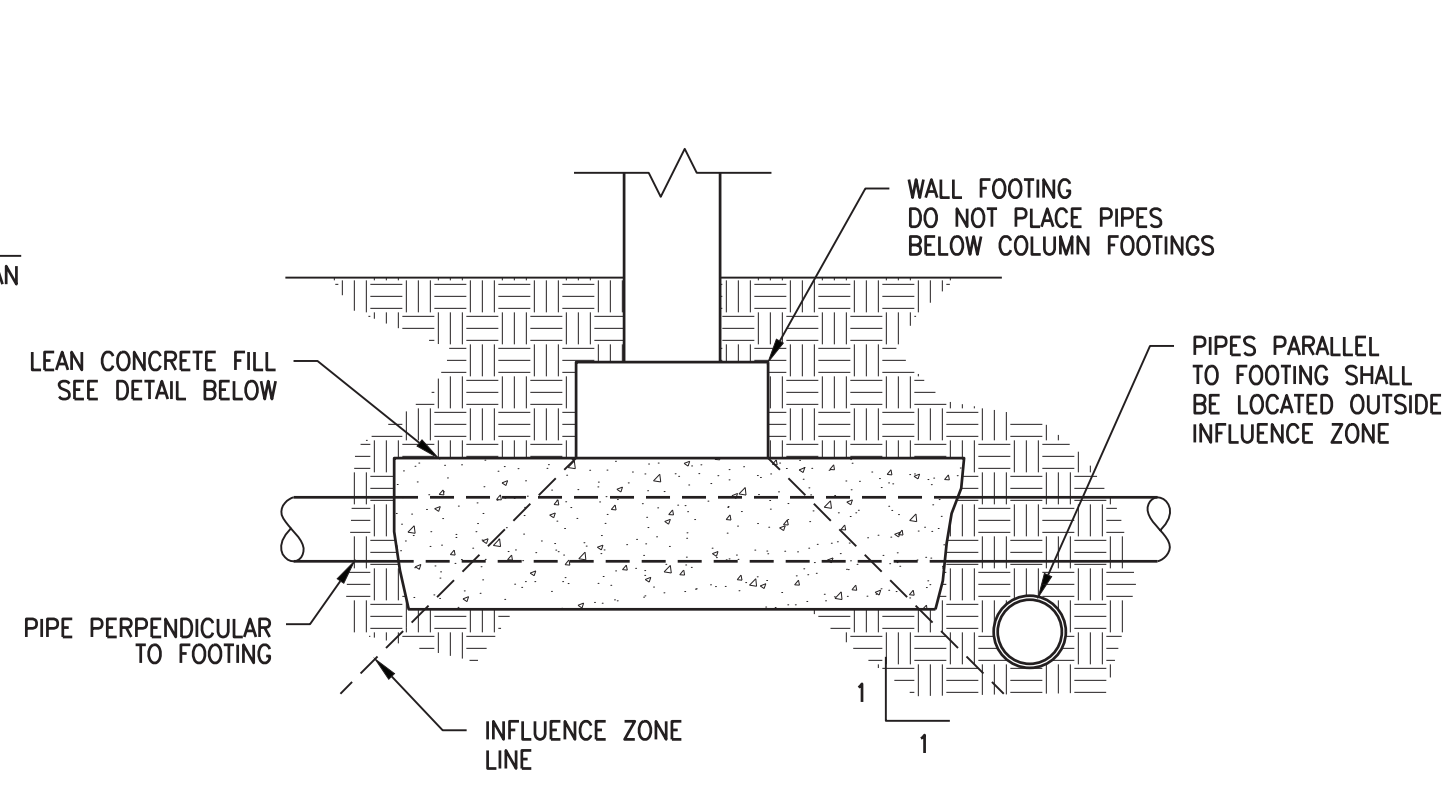
REV. 11-2017



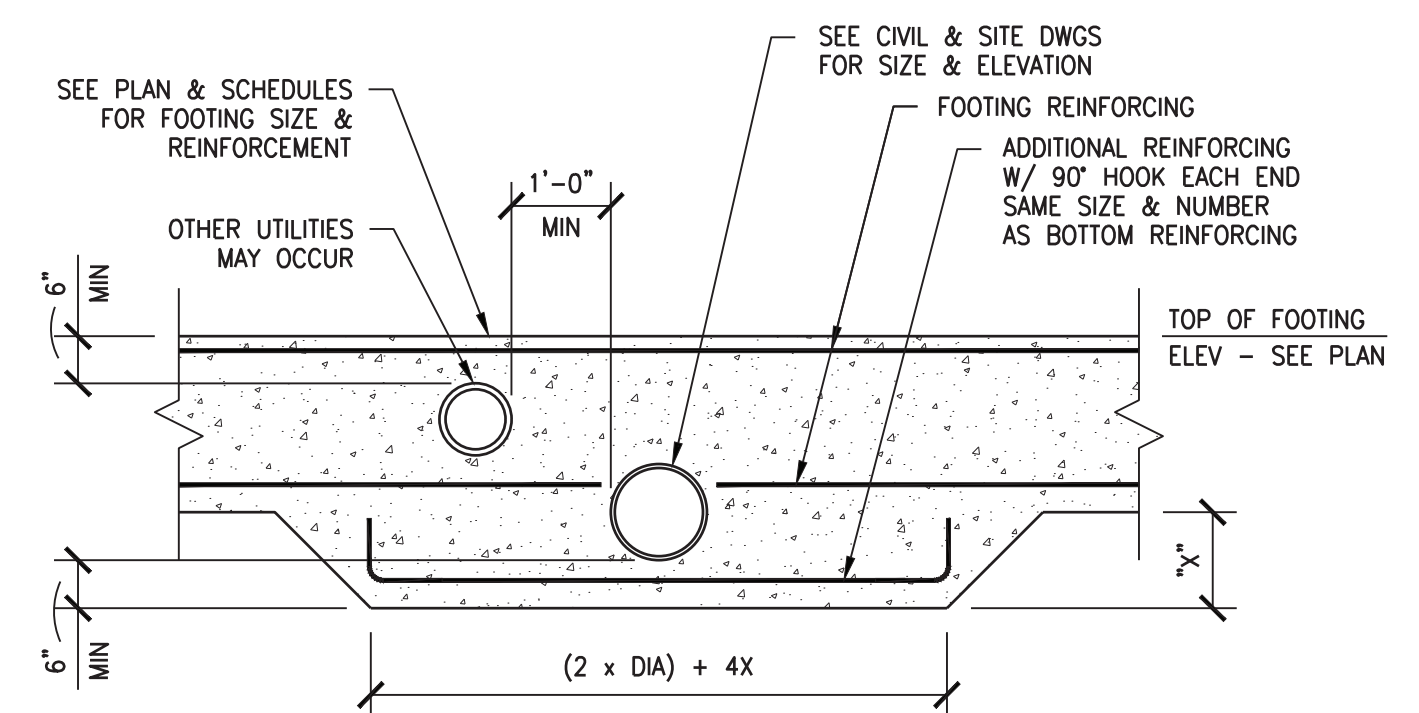
NOTES:  
 1. PROVIDE CONCRETE PROTECTION AROUND UTILITY LINE WHEN LINE IS WITHIN FOOTING INFLUENCE ZONE. SEE DETAIL ABOVE FOR INFLUENCE ZONE DEFINITION.  
 2. DETAIL APPLIES WHEREVER TOP OF PIPE IS WITHIN 4 PIPE DIAMETERS TO BOTTOM OF FOOTING OR IF UTILITY IS INSTALLED AFTER FOOTING PLACEMENT (REGARDLESS OF DEPTH).

**TYPICAL UTILITY LINE BELOW FOOTING DETAIL**

NOT TO SCALE



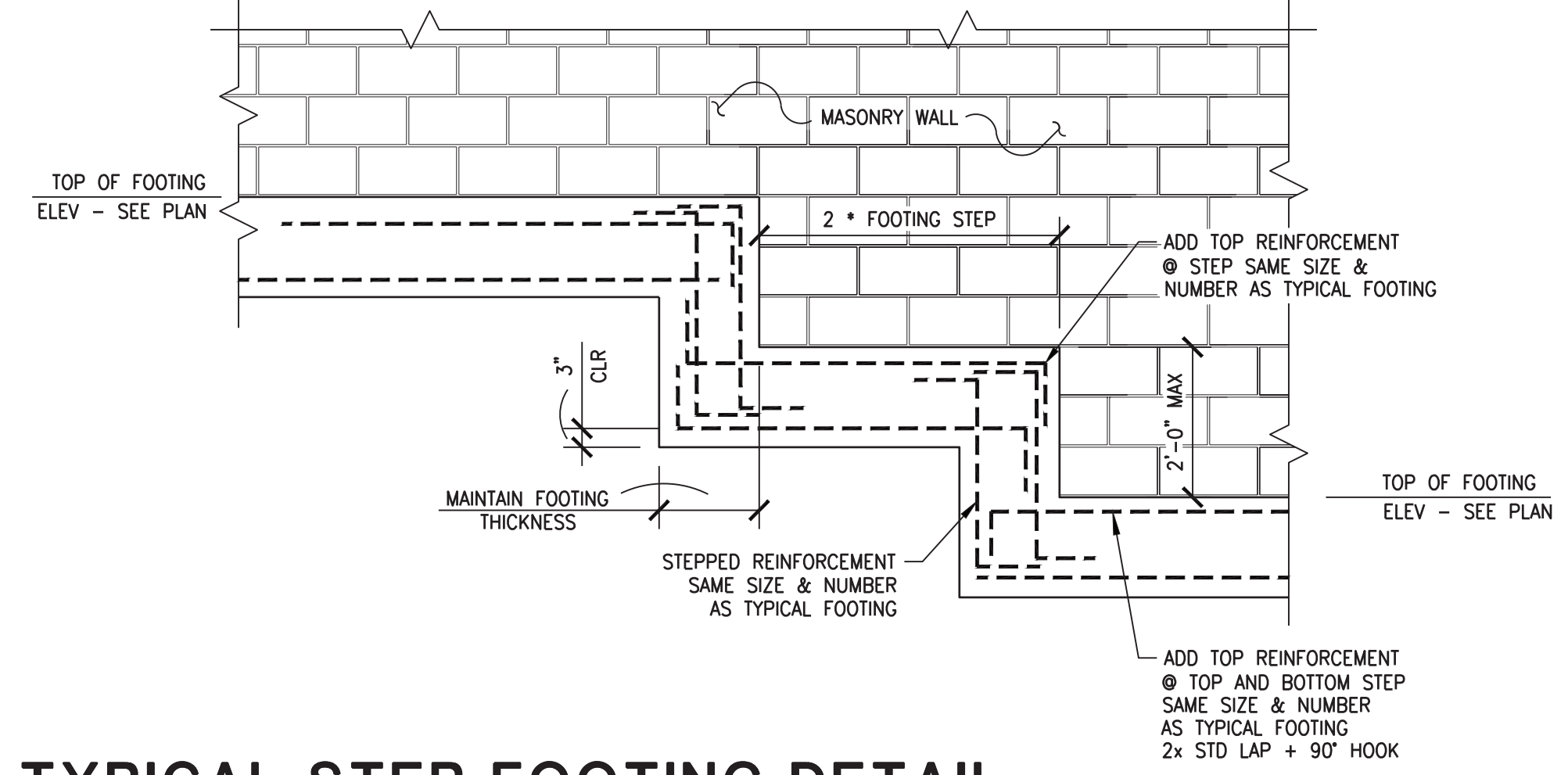
**INFLUENCE ZONE**



NOTES:  
 1. IN LIEU OF SLEEVE, IF DIRECT PENETRATION OF PIPE IS REQUIRED PROVIDE 2\"/>

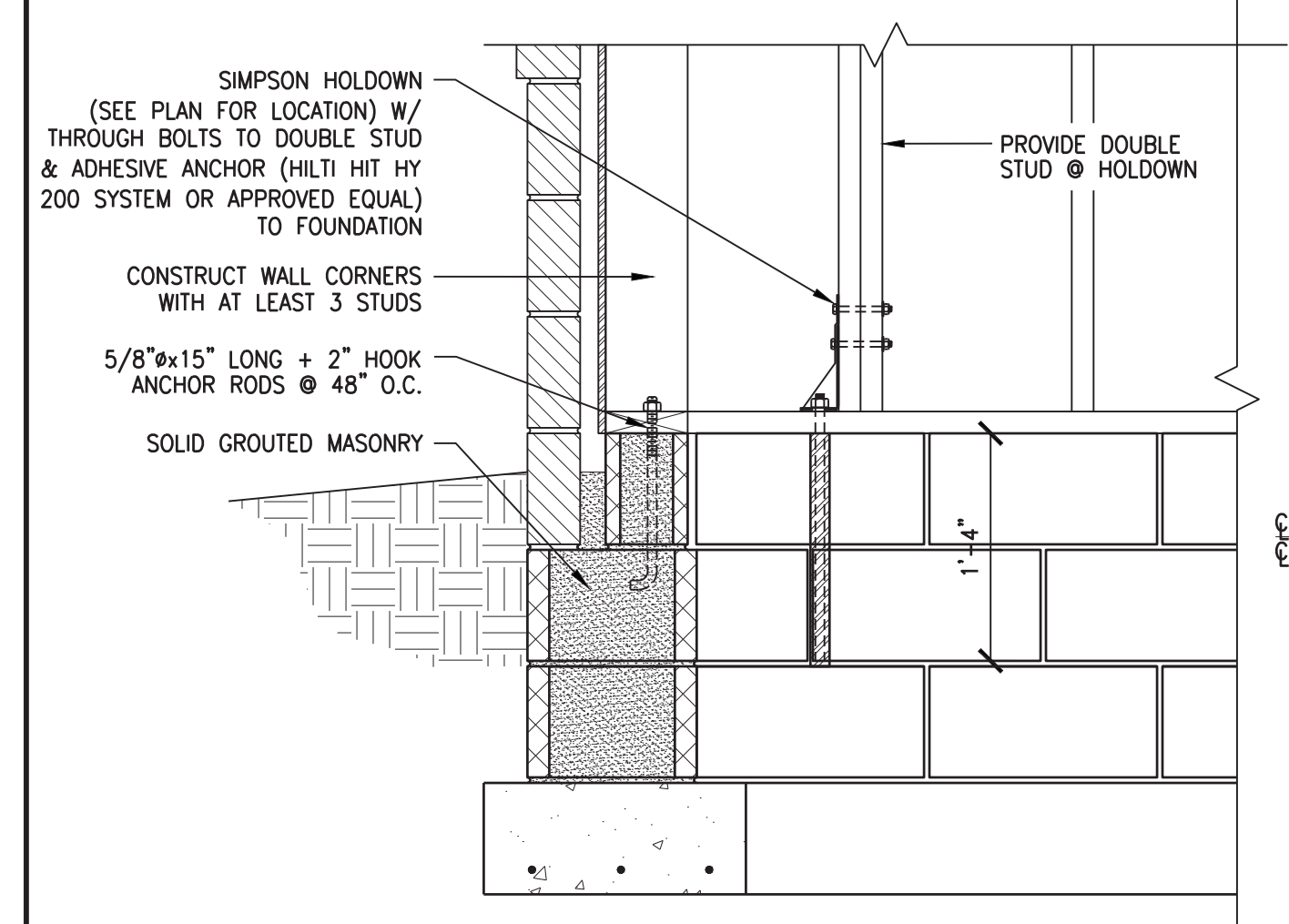
**TYPICAL FOOTING PENETRATION / SLEEVE DETAIL**

NOT TO SCALE

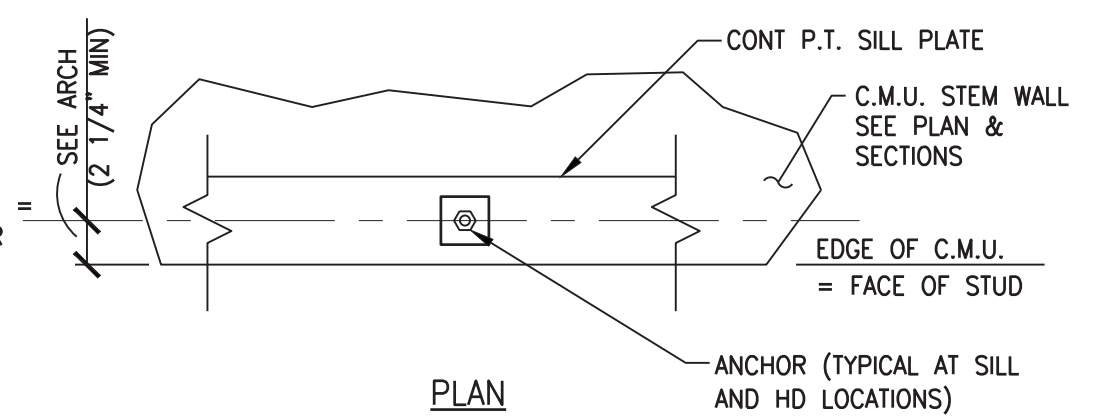


**TYPICAL STEP FOOTING DETAIL**

NOT TO SCALE



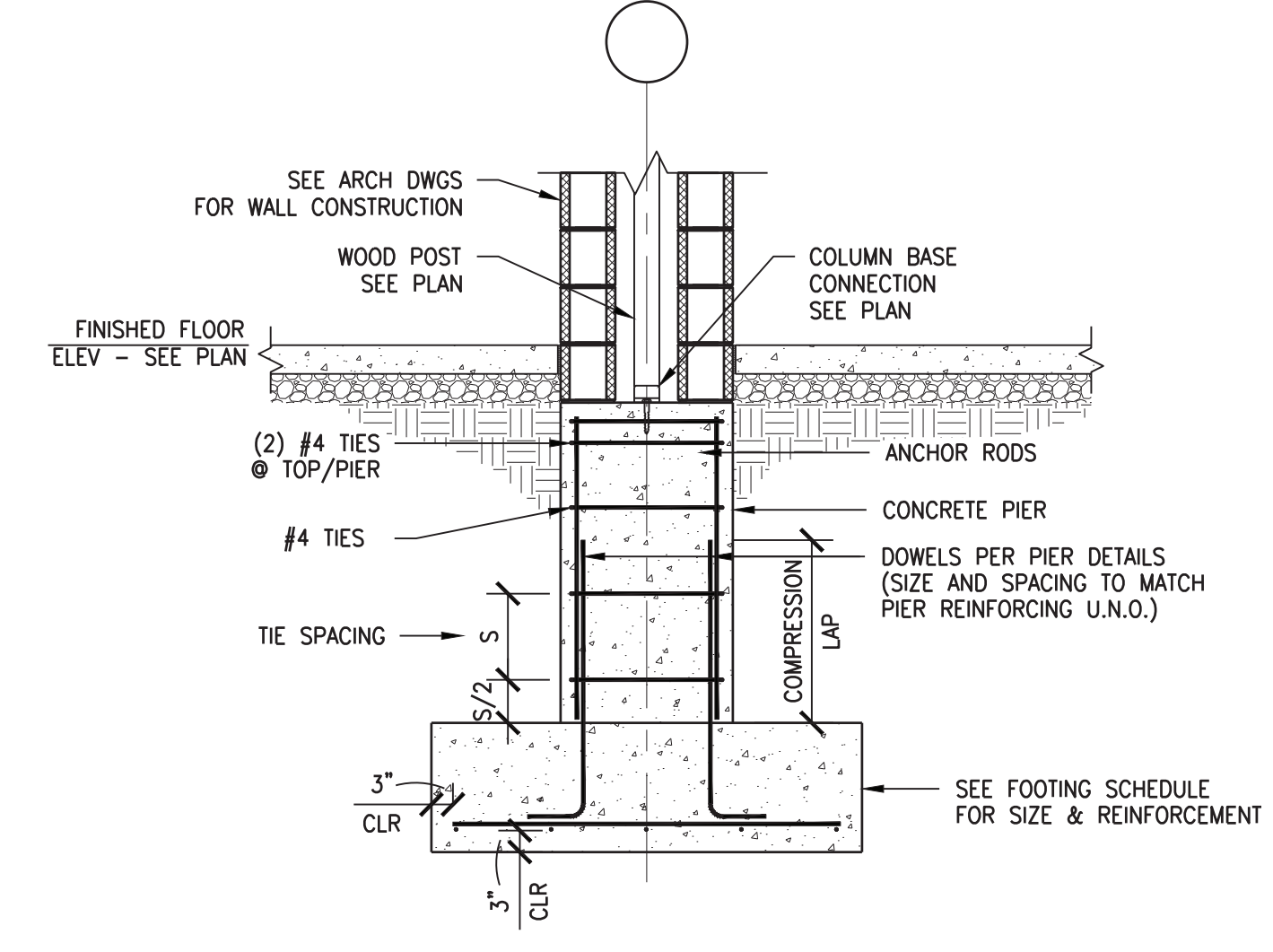
PLAN MARK	ANCHOR TO STEMWALL	SDS SCREWS TO STUDS	HOLD-DOWN TYPE
HD	SEE DET C/S4.1	SEE DET C/S4.1	HD3B



NOTES:  
 1. EDGE DISTANCE FROM CENTERLINE OF ANCHOR TO EDGE OF SILL PL. SHALL NOT BE LESS THAN 2.5 TIMES ANCHOR DIAMETER.  
 2. ANCHORS IN P.T. SILL PLATES SHALL BE OF MECHANICALLY DEPOSITED ZINC COATED STEEL WITH COATING WEIGHTS PER ASTM B695 (CLASS 55 MIN).

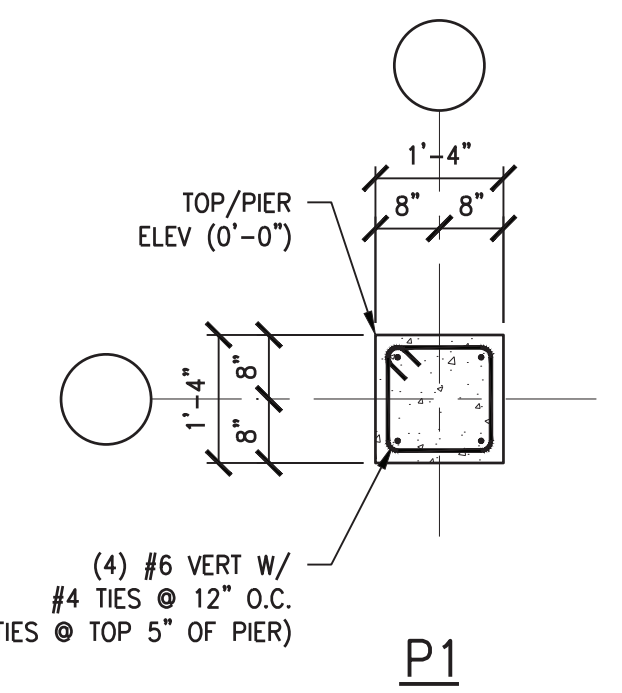
**TYPICAL WOOD-FRAME SHEAR WALL HOLD-DOWN DETAIL**

NOT TO SCALE



**TYPICAL WOOD POST, PIER, AND FOOTING DETAIL**

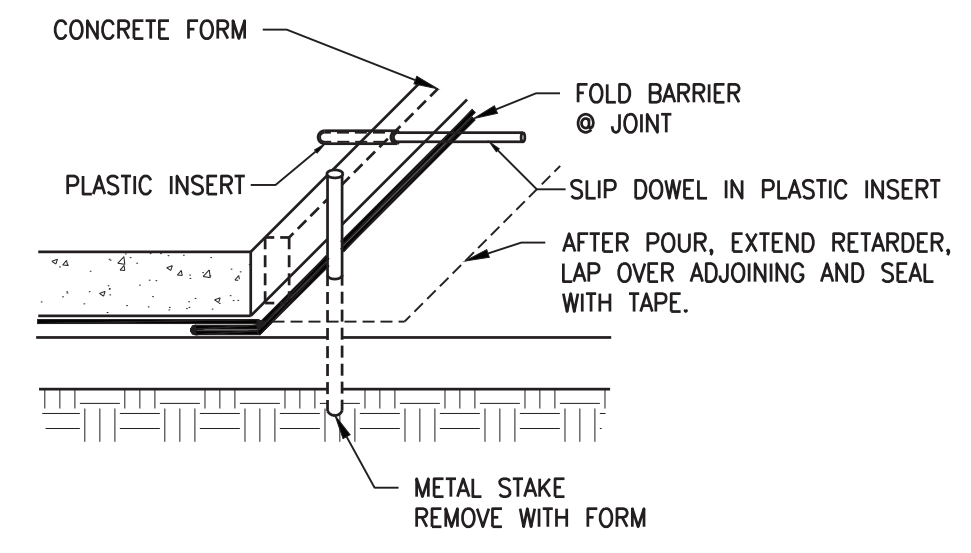
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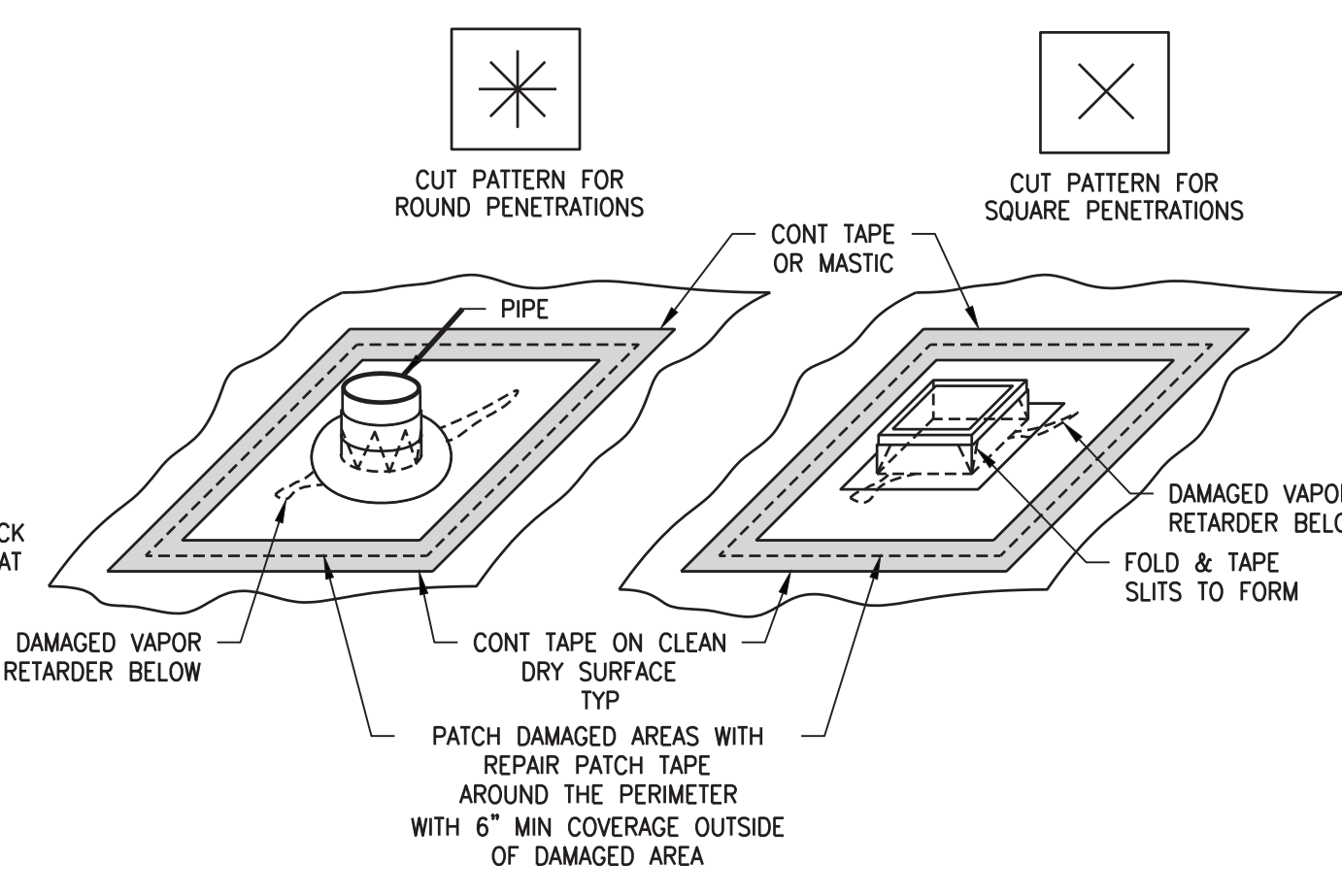
**PIER DETAIL**

1/2"=1'-0"

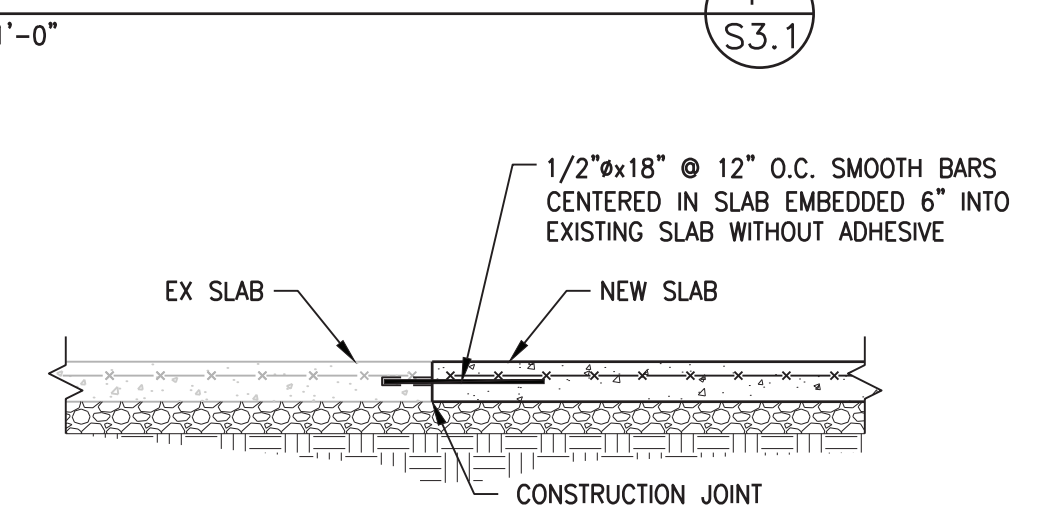
NOTES:  
 1. PROVIDE VAPOR RETARDER THAT IS RESISTANT TO DEGRADATION WHEN TESTED ACCORDING TO ASTM E 154. SEE SPECIFICATION SECTION 033000.  
 2. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.  
 3. SEAL ALL PENETRATIONS AND REPAIR ALL DAMAGED SURFACES WITH APPROVED JOINT TAPE OR MASTIC.  
 4. PREPARE ALL SURFACES FOR PROPER ADHESION WITH APPROVED TAPE. ALL SURFACES MUST BE CLEAN, DRY, AND FROST FREE.  
 5. TURN UP BARRIER AT ALL EXTERIOR OR INTERIOR WALL SURFACES AND SEAL WITH APPROVED TAPE.



**TYPICAL DIVIDED POUR @ CONSTRUCTION JOINT**



**TYPICAL PIPE REPAIR TYPICAL RECTANGULAR REPAIR**

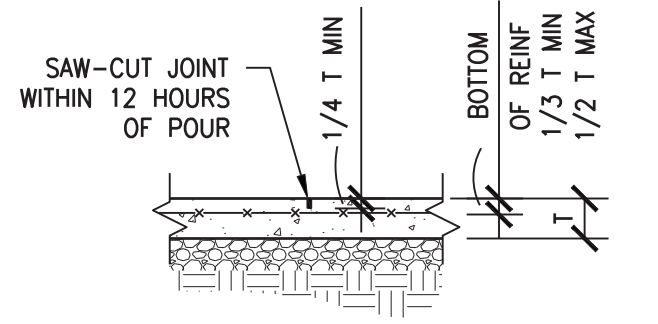


**JOINT BETWEEN EXISTING AND NEW SLAB**

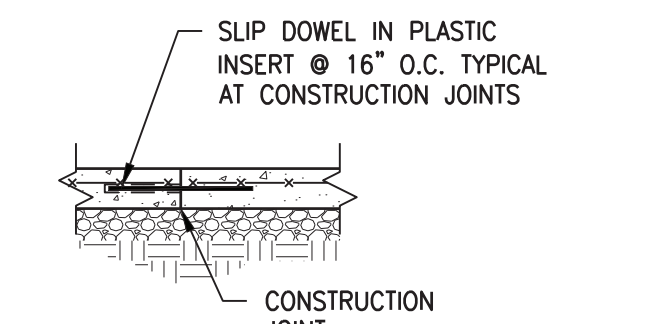
NOTES:  
 1. JOINTS SHALL BE INSTALLED IN SLABS ON GROUND AT A MAXIMUM SPACING IN FEET OF 3 TIMES THE SLAB THICKNESS IN INCHES IN EACH DIRECTION BY EITHER OF THE ABOVE METHODS. MAXIMUM LENGTH OF ANY SLAB ON GROUND POUR TO BE 100'-0" BETWEEN CONSTRUCTION JOINTS. RATIO OF LENGTH TO WIDTH SHALL NOT EXCEED 2. THIS SPACING OF JOINTS SHALL APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE.  
 2. WELDED WIRE FABRIC SHALL BE DISCONTINUED AT CONSTRUCTION JOINTS.

**SLAB ON GROUND JOINT DETAIL**

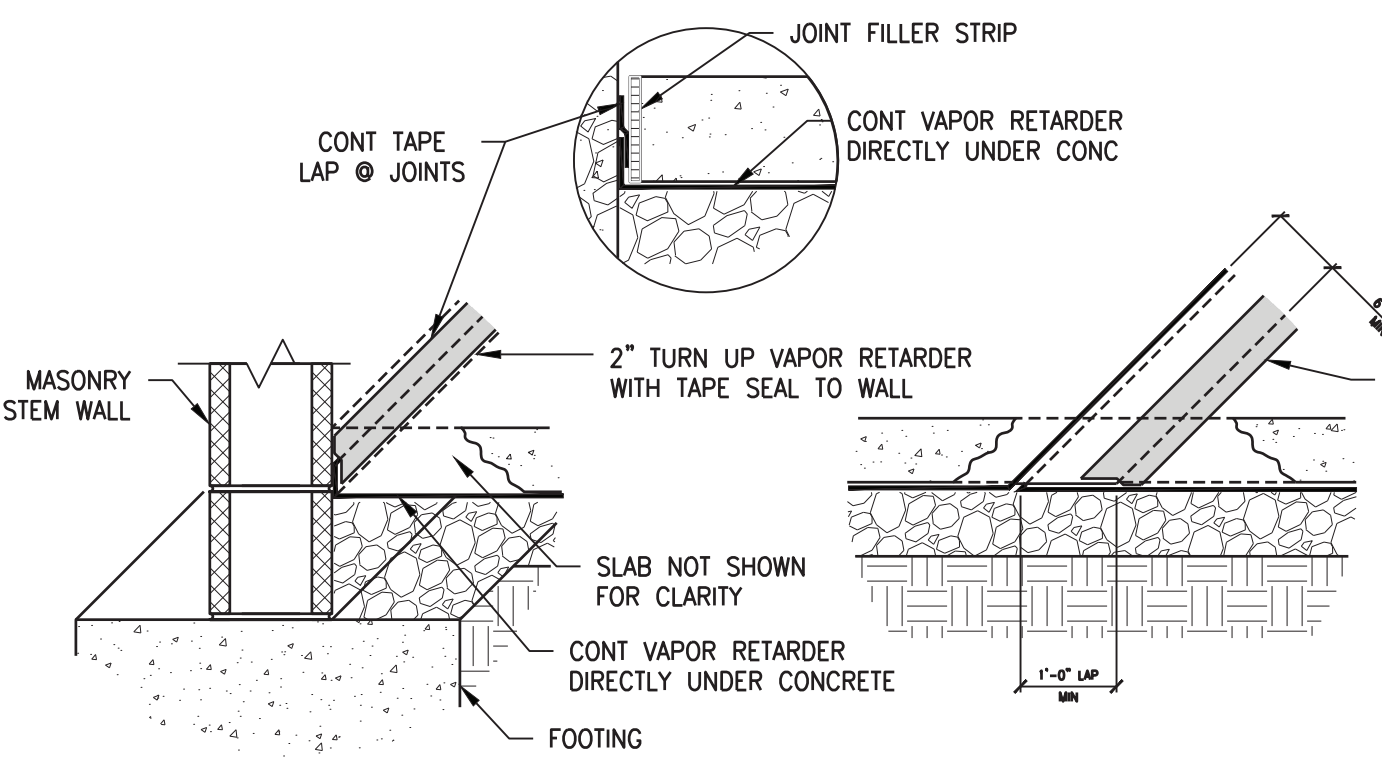
NOT TO SCALE



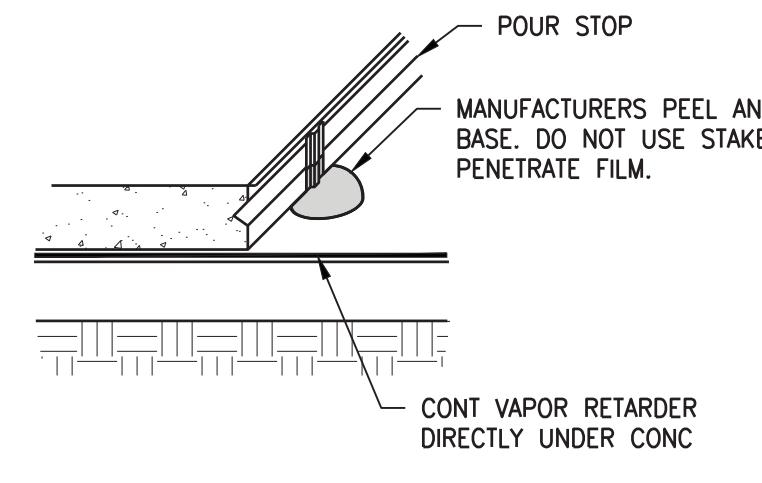
**SAWN CONTRACTION JOINT**



**CONSTRUCTION JOINT**



**TYPICAL @ WALL TYPICAL @ SEAM**



**OPTIONAL SIMULTANEOUS POUR @ CONSTRUCTION JOINT**

**TYPICAL VAPOR RETARDER DETAILS**

NOT TO SCALE

**RECORD DRAWINGS**

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020

**BROWN + KUBICAN**  
 STRUCTURAL ENGINEERS P.S.C.

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DAN KUBICAN JR.  
 LICENSED PROFESSIONAL ENGINEER  
 2012

©BROWN + KUBICAN, P.S.C.

**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
 CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT

FOUNDATION DETAILS / SECTION

DATE: NOVEMBER 2017 DRAWN BY: MSC CHECKED BY: DK REVISIONS: S3.1

AS-BUILT DRAWINGS

PLT DATE: 16 May 2017 - 12:02 PM



REV. 11-2017

### NAILING SCHEDULE

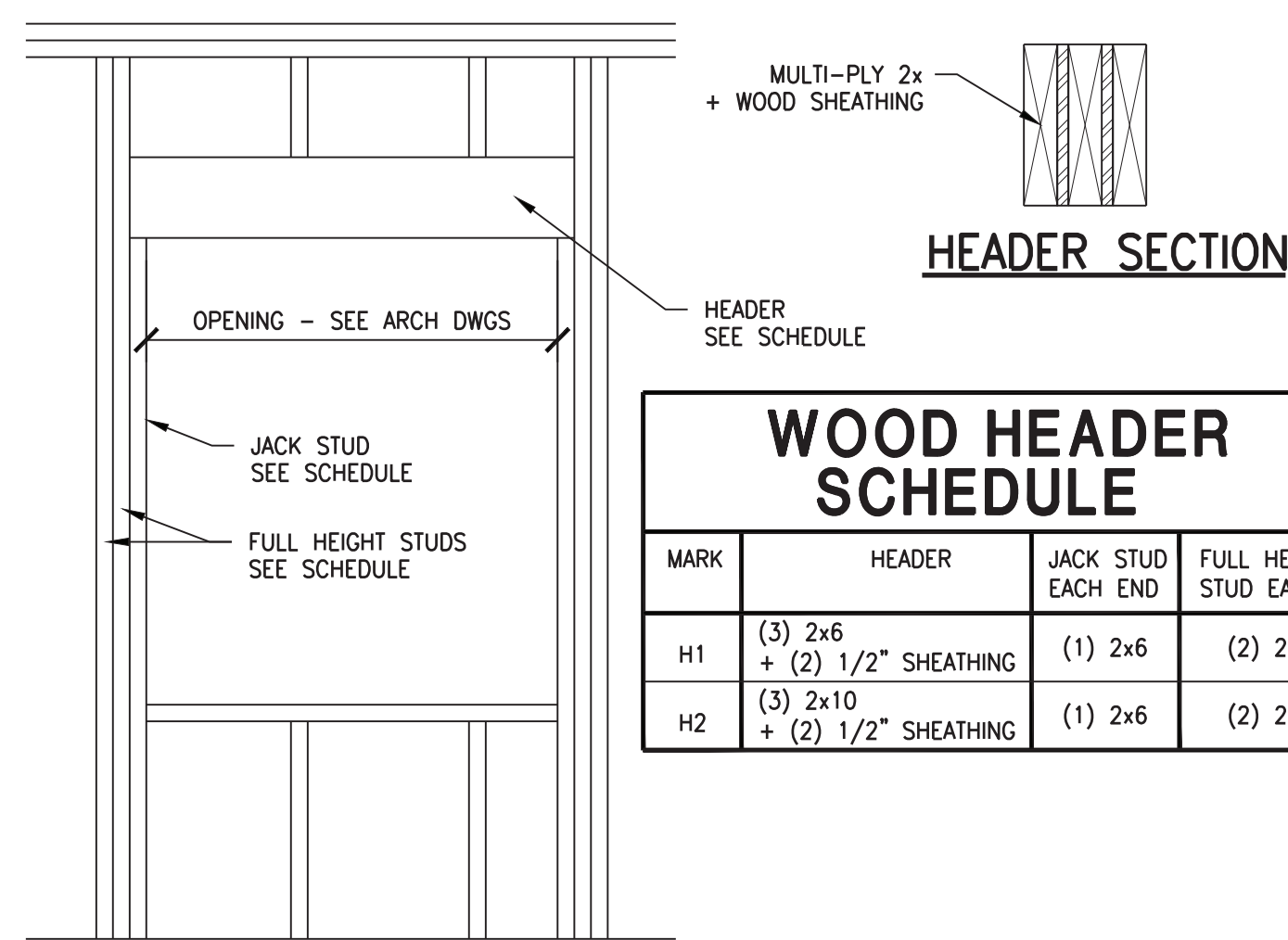
CONNECTION	LOCATION	MINIMUM NUMBER AND SIZE
TOP PLATE TO STUD	END NAIL	3 - 16d
STUD TO SOLE PLATE	END NAIL	3 - 16d
	TOE NAIL	4 - 8d
DOUBLED STUD	FACE NAIL	16d @ 24" O.C. STAGGER EDGES
BUILT-UP CORNER STUD	FACE NAIL	16d @ 24" O.C.
DOUBLED TOP PLATE	FACE NAIL	16d @ 24" O.C. STAGGER EDGES
DOUBLE TOP PLATE LAP SPICE	FACE NAIL	8 - 16d
CONTINUOUS HEADER, TWO PIECES	FACE NAIL	16d @ 16" O.C. EACH EDGE + 6 - 16d @ ENDS
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	TOE NAIL	3 - 8d
BAND BOARD TO TOP PLATE	TOE NAIL	16d @ 16" O.C.
BAND BOARD TO JOIST/RAFTER	END NAIL	3 - 16d
HORIZONTAL JOIST TO TOP PLATE	TOE NAIL	3 - 16d
COLLAR TIE TO PARALLEL RAFTER	FACE NAIL	3 - 16d
RAFTER/TRUSS TO PLATE	TOE NAIL	3 - 8d
RAFTER TO RIDGE	END NAIL	3 - 16d
	TOE NAIL	3 - 16d
ROOF/WALL SHEATHING TO STUD/RAFTER	FACE NAIL	10d @ 6" O.C. EDGES AND 10d @ 12" O.C. INTERMEDIATE
WALL SHEATHING TO BAND BOARD	FACE NAIL	6d @ 12" O.C. STAGGER EDGES
WALL SHEATHING TO PLATE	FACE NAIL	6d @ 8" O.C.

NOTE: ABOVE NAILING TO BE PROVIDED IN ADDITION TO ANY METAL FRAMING ANCHORS SPECIFIED

### NAILING SCHEDULE

NOT TO SCALE

A  
S4.1



### WOOD HEADER SCHEDULE

MARK	HEADER	JACK STUD EACH END	FULL HEIGHT STUD EACH END
H1	(3) 2x6 + (2) 1/2" SHEATHING	(1) 2x6	(2) 2x6
H2	(3) 2x10 + (2) 1/2" SHEATHING	(1) 2x6	(2) 2x6

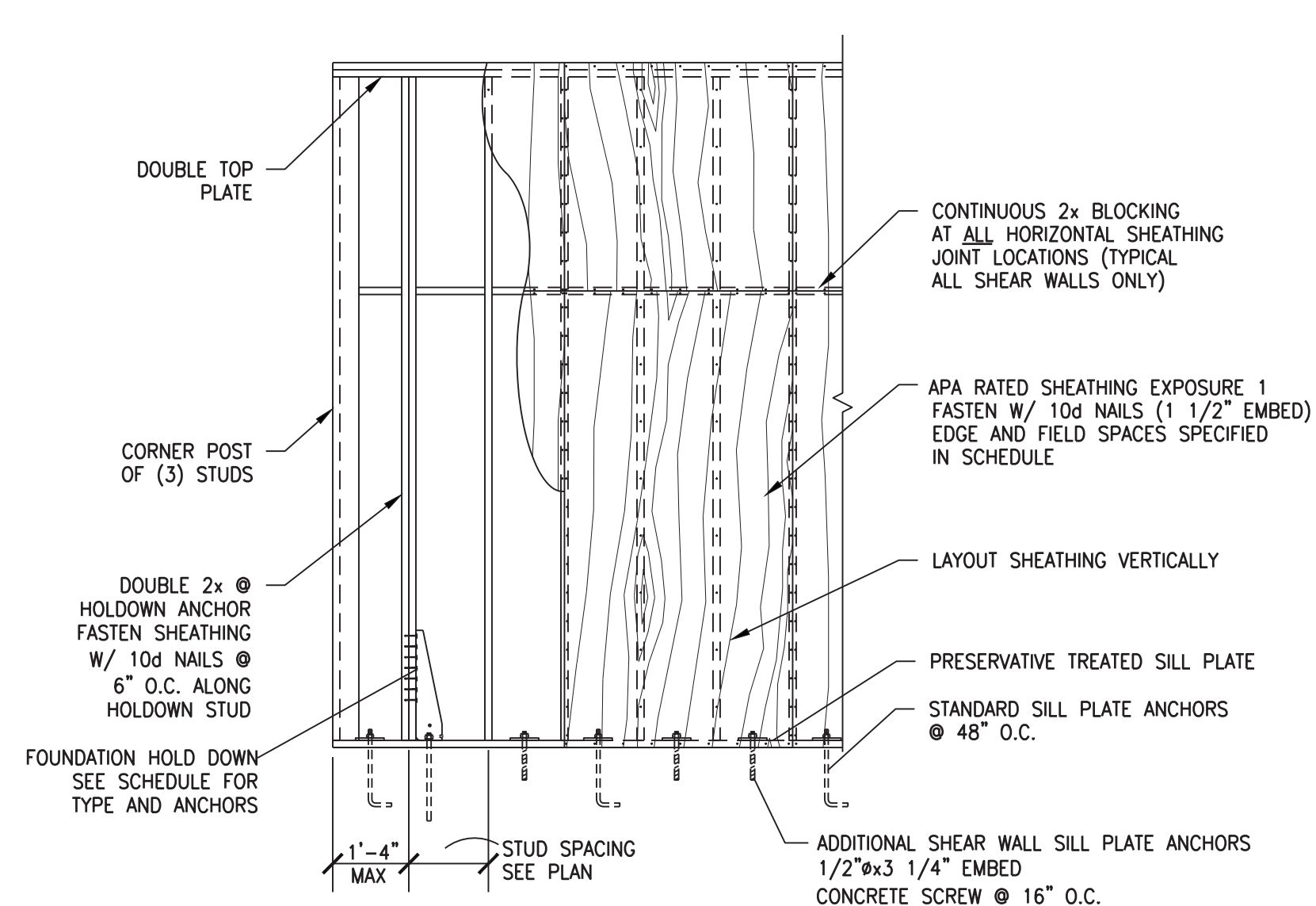
### WALL OPENING ELEVATION TYPICAL WOOD HEADER DETAIL

NOT TO SCALE

B  
S4.1

### SHEAR WALL SCHEDULE

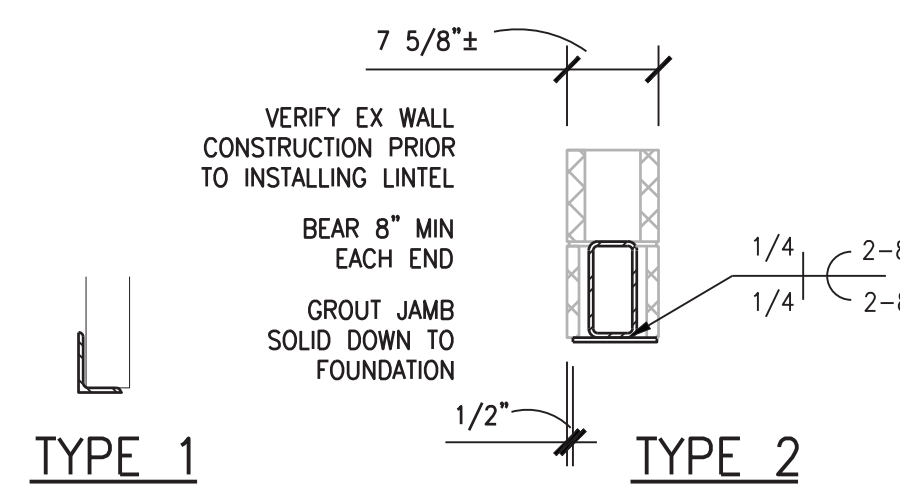
MARK	LENGTH	SHEATHING	SHEATHING FASTENING		HOLD DOWN CONNECTION		
			EDGE	FIELD	TYPE	STUD SCREWS	FOUNDATION ANCHOR
SW1	10'-0"	7/16"	4" O.C.	12" O.C.	SIMPSON HDU2-SDS2.5	(6) 1/4"x2 1/2" SDS	5/8"x16" EMBED ADHESIVE ANCHOR



### TYPICAL SHEAR WALL FRAMING

NOT TO SCALE

C  
S4.1



### LINTEL SCHEDULE

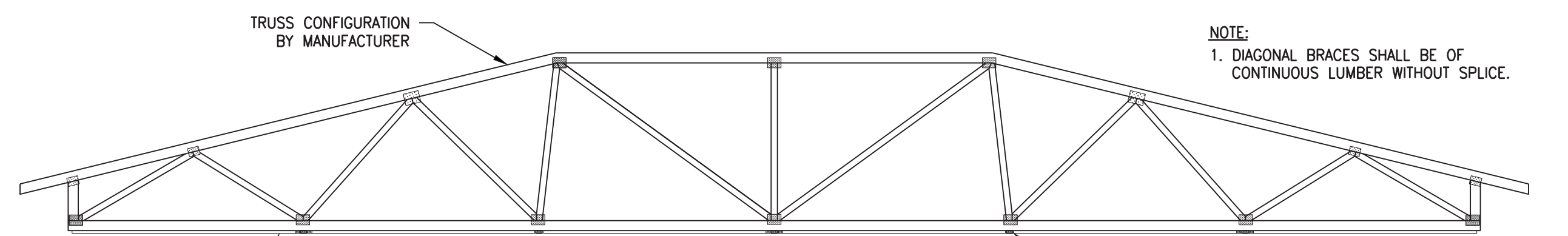
MARK	TYPE	SIZE
L1	1	GALV L4x4x5/16
L2	2	HSS8x4x1/4 W/ PL 5/16x7± CONT PL

NOTES:  
1. LINTELS SHALL BEAR DIRECTLY ON SOLID MASONRY, WITHOUT BEARING PL. U.N.O. BEAR STEEL ANGLE LINTELS, 6" ON PARALLEL WALLS AND TUBE LINTELS 8" ON PARALLEL WALLS, U.N.O.  
2. GALVANIZE ALL LINTELS LOCATED IN EXTERIOR WALLS.

### TYPICAL STEEL LINTEL DETAIL AND SCHEDULE

NOT TO SCALE

D  
S4.1



### GENERAL TRUSS ELEVATION (FOR EXAMPLE ONLY)

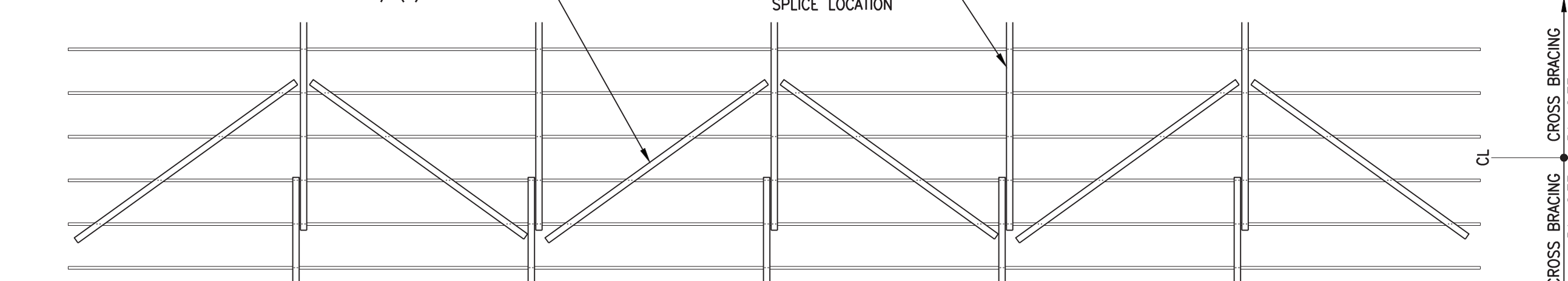
2x4 ZIG-ZAG BOTTOM CHORD CROSS BRACING FULL WIDTH OF TRUSS SPAN @ 16'-0" O.C.

2x4 DIAGONAL BRACE POSITIONED AT APPROXIMATELY 45° BETWEEN CONT LATERAL BRACING AND FASTENED TO EACH INTERSECTING TRUSS W/ (2) 16d NAILS

CONT 2x4 BOTTOM CHORD MEMBER BRACE FASTENED W/ (2) 16d NAILS TO EACH INTERSECTING TRUSS WITH ONE TRUSS OVERLAP AT SPLICE LOCATION

NOTE: 1. DIAGONAL BRACES SHALL BE OF CONTINUOUS LUMBER WITHOUT SPLICE.

CONT 2x4 LATERAL BRACING @ 6' O.C. MAX WHERE NO DIRECT APPLIED WOOD OR GYPSUM CEILING OCCURS COORDINATE CLOSER SPACING REQUIREMENTS W/ TRUSS MANUFACTURER FASTEN W/ (2) 16d NAILS AT EACH INTERSECTING TRUSS WITH ONE TRUSS OVERLAP AT SPLICE LOCATION (TYP)

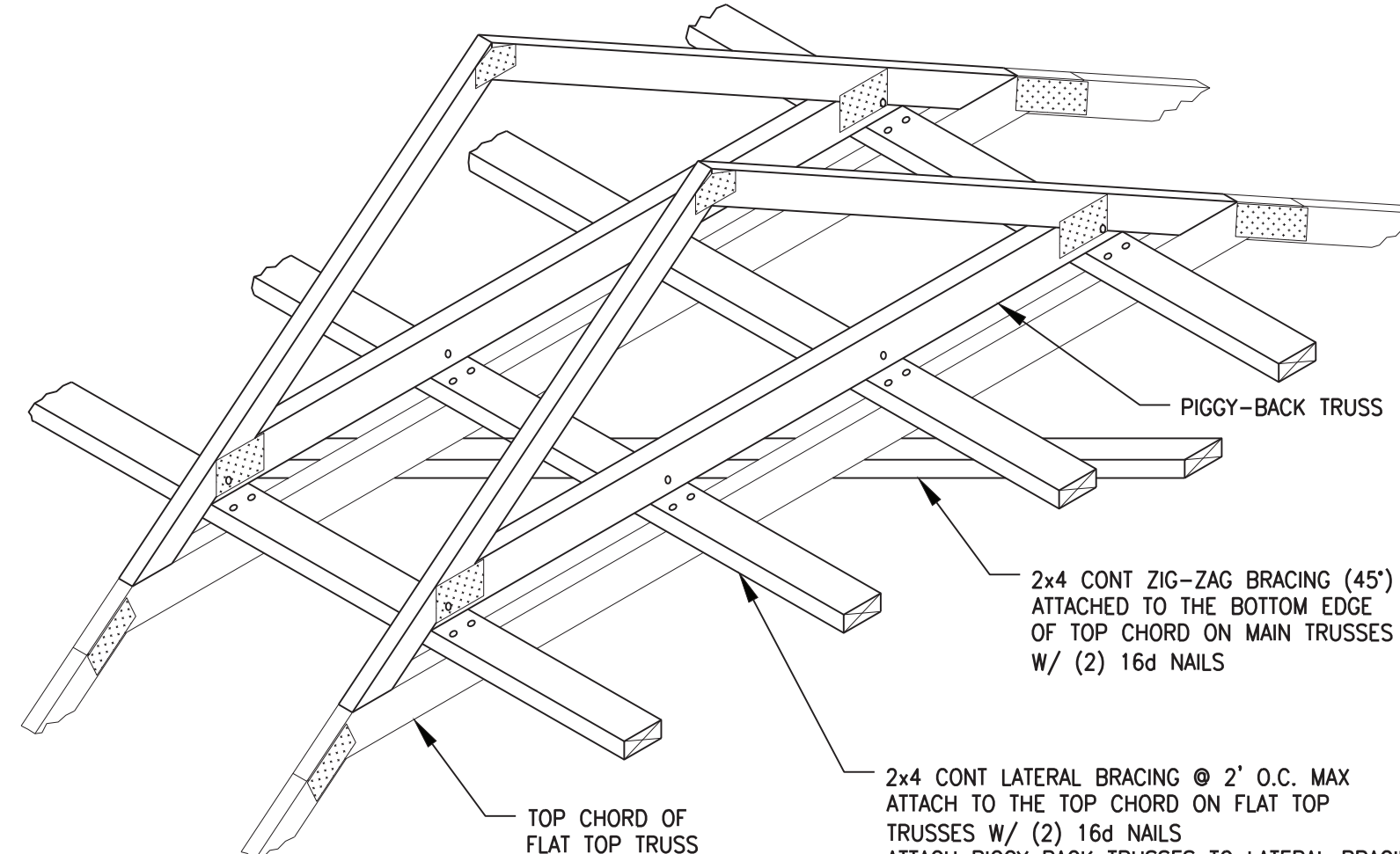


### PLAN - BOTTOM CHORD CROSS BRACE

### TYPICAL TRUSS BOTTOM CHORD BRACING DETAIL

NOT TO SCALE

E  
S4.1

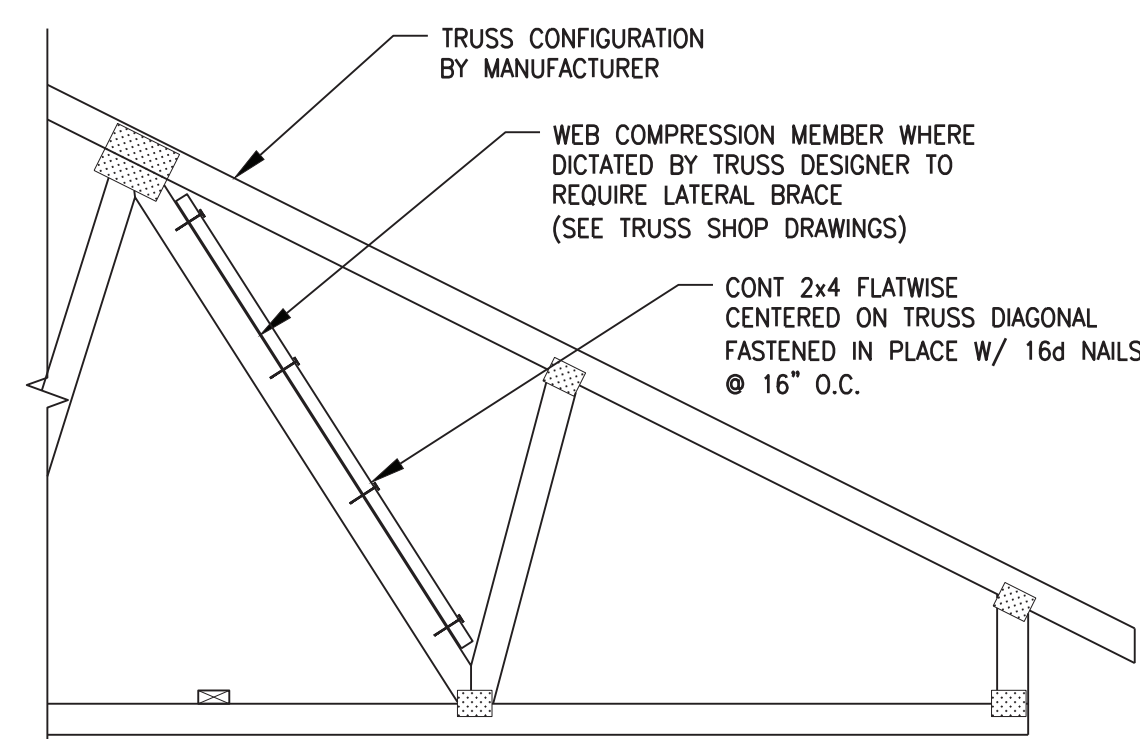


NOTE: TRUSS MANUFACTURER SHALL DETERMINE REQUIREMENT OF PIGGY-BACK TRUSSES AND COORDINATE BRACING LOCATIONS WITH CONTRACTOR

### TYPICAL PIGGY-BACK TRUSS DETAIL

NOT TO SCALE

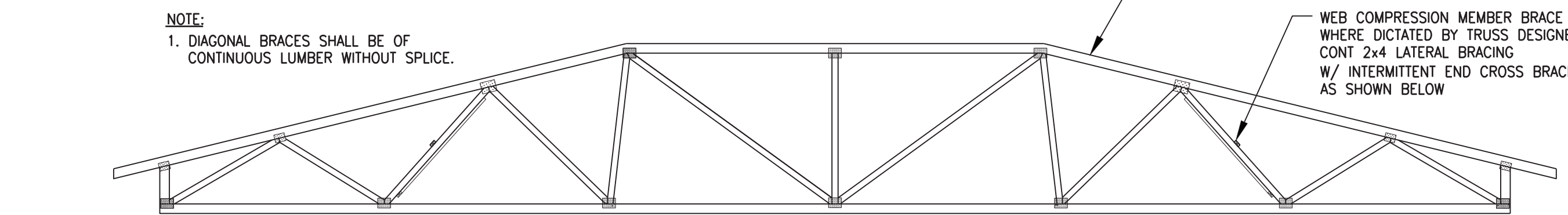
F  
S4.1



### ALTERNATE TRUSS COMPRESSION WEB BRACING DETAIL

NOT TO SCALE

G  
S4.1



### GENERAL TRUSS ELEVATION (FOR EXAMPLE ONLY)

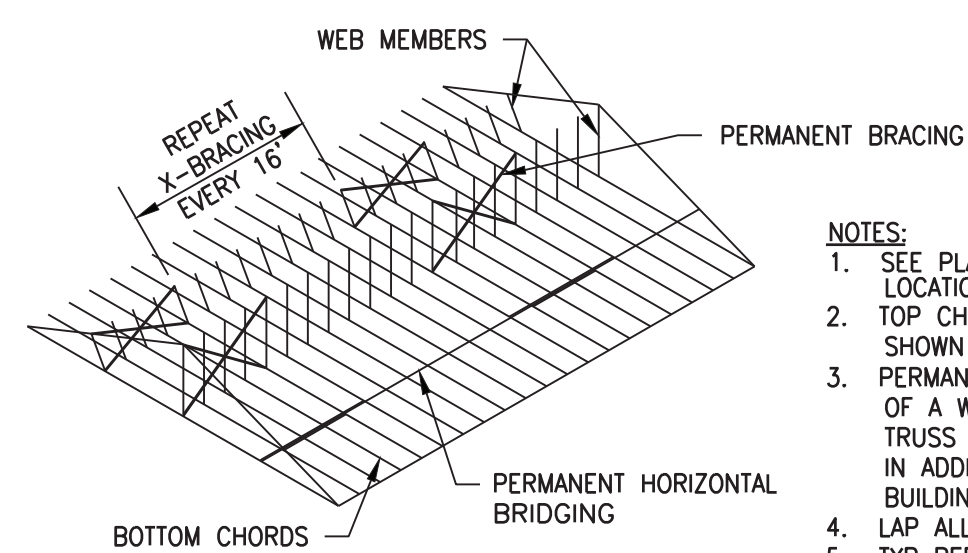
NOTE: 1. DIAGONAL BRACES SHALL BE OF CONTINUOUS LUMBER WITHOUT SPLICE.

NOTE: TRUSS MANUFACTURER SHALL DETERMINE REQUIREMENT OF PIGGY-BACK TRUSSES AND COORDINATE BRACING LOCATIONS WITH CONTRACTOR

### TYPICAL PERMANENT BRACING

NOT TO SCALE

F  
S4.1

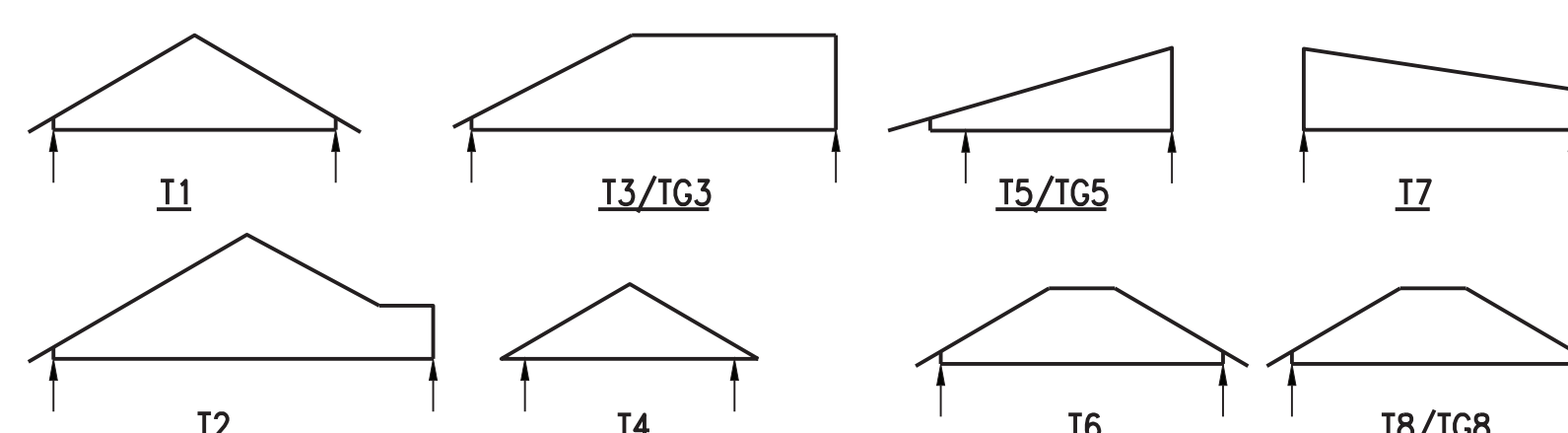


NOTES:  
1. SEE PLANS FOR BUILDING PERMANENT BRACING LOCATIONS.  
2. TOP CHORDS AND SOME MEMBERS ARE NOT SHOWN FOR CLARITY.  
3. PERMANENT BRACING FOR INDIVIDUAL MEMBERS OF A WOOD TRUSS COMPONENT (SHOWN ON TRUSS DESIGN DRAWINGS) SHALL BE INSTALLED IN ADDITION TO PERMANENT BRACING SHOWN ON BUILDING DESIGN DRAWINGS.  
4. LAP ALL BRACING A MINIMUM OF TWO TRUSSES.  
5. TYP PERMANENT BRACING IS 2x4 ATTACHED TO EACH TRUSS W/(3) 16d COMMON NAILS. SLOPE ALONG WEB MEMBERS AT 30°-45°. LAP SPICE ALL PERMANENT BRACING MINIMUM (2) TRUSSES.

### TYPICAL PERMANENT BRACING

NOT TO SCALE

J  
S4.1



### WOOD TRUSS PROFILES

NOT TO SCALE

K  
S4.1

NOTES:  
1. PIGGYBACK TRUSSES AS REQUIRED TO MEET MAXIMUM SHIPPING HEIGHTS. INSTALL PIGGYBACKS ON 2x4 RUNNERS FLATWISE SPACED AT 24" O.C.  
2. WEB CONFIGURATION AND TRUSS-TRUSS CONNECTIONS PER MANUFACTURER.

### RECORD DRAWINGS

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWING SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.

BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020

### AS-BUILT DRAWINGS

**BROWN + KUBICAN**  
STRUCTURAL ENGINEERS PSC

2224 Young Drive  
Lexington, KY 40505  
Phone: 859-543-0933  
Fax: 859-543-0733

DAN KUBICAN, JR.  
20712  
PROFESSIONAL ENGINEER

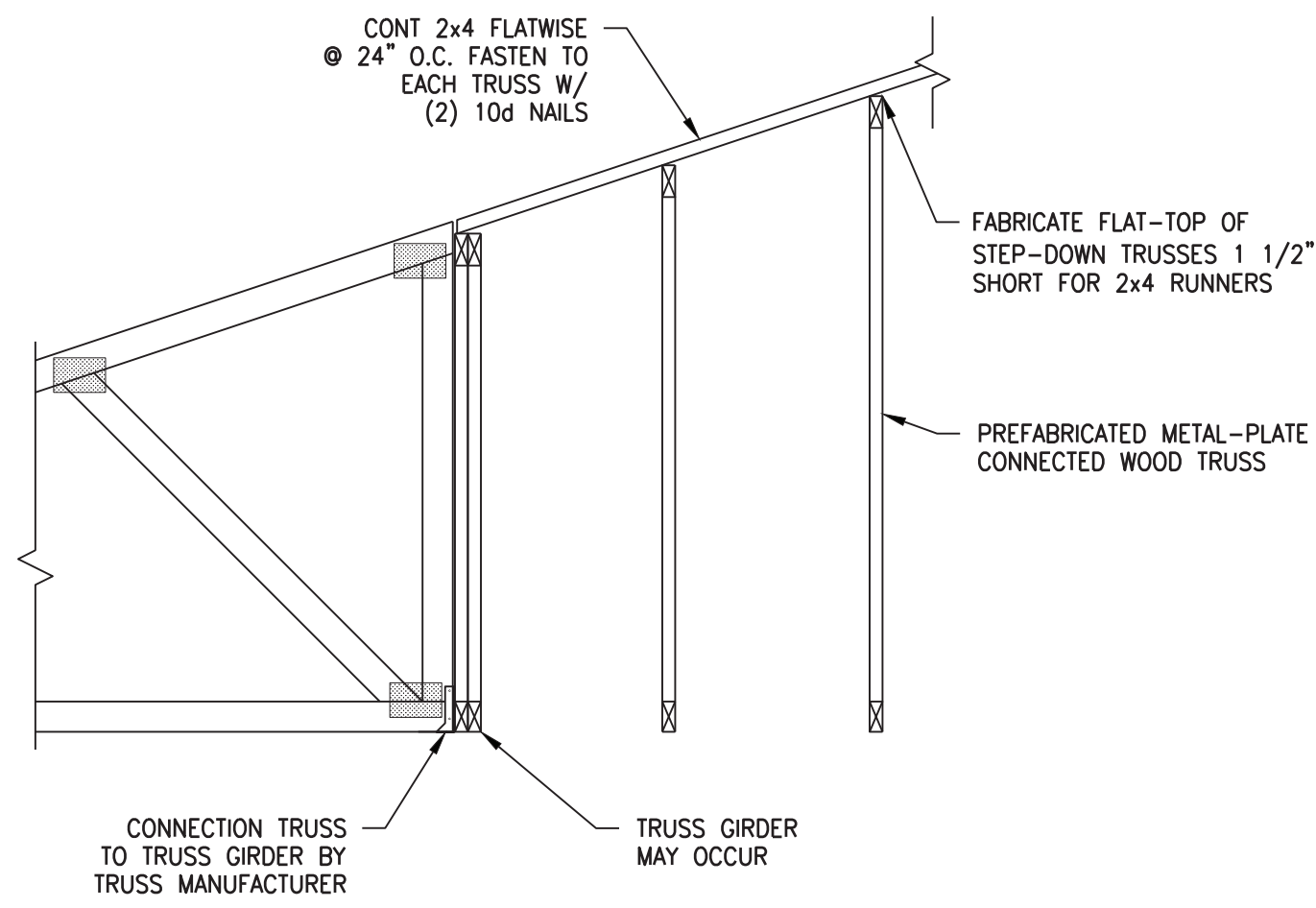
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### PHASE 11 WATER SYSTEM IMPROVEMENTS CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT

TYPICAL FRAMING DETAILS				SHEET NO. S4.1
DATE NOVEMBER 2017	DRAWN BY MSC	CHECKED BY DK	REVISIONS	

REV. DATE: 16 May 2017 - 12:02 PM

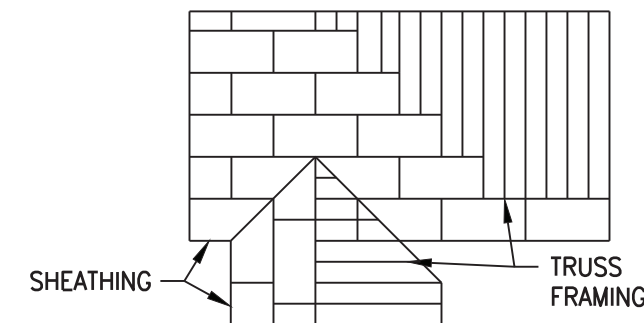




**TYPICAL FRAMING AT STEP-DOWN TRUSSES**

NOT TO SCALE

A  
S4.2

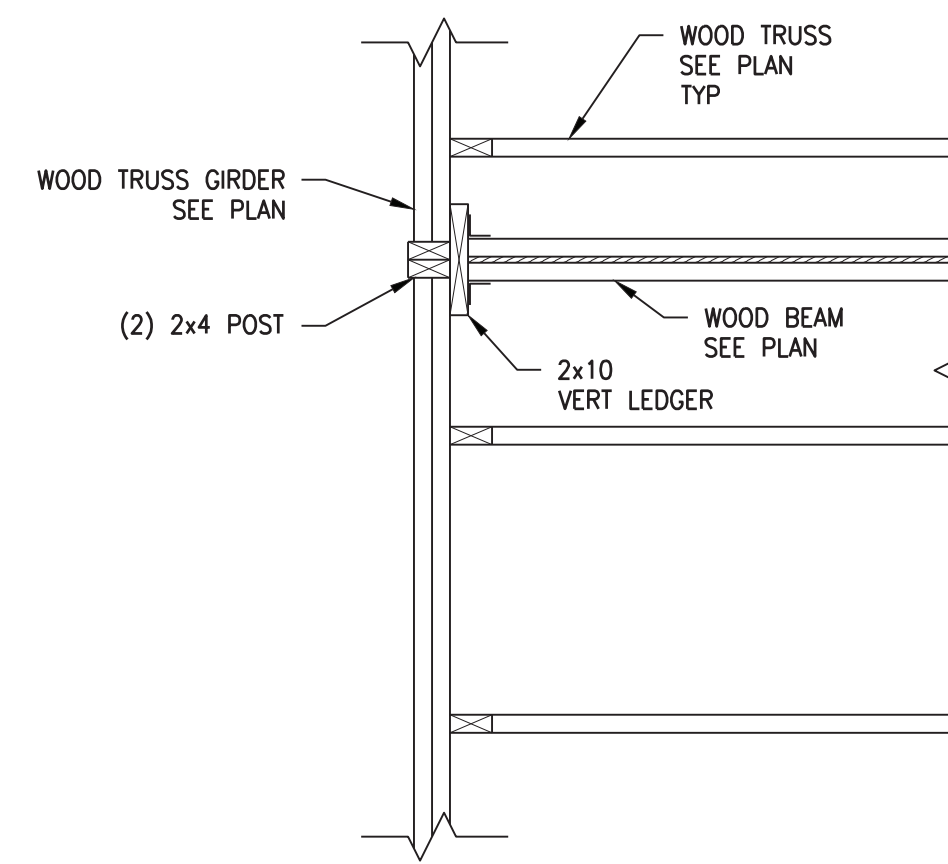
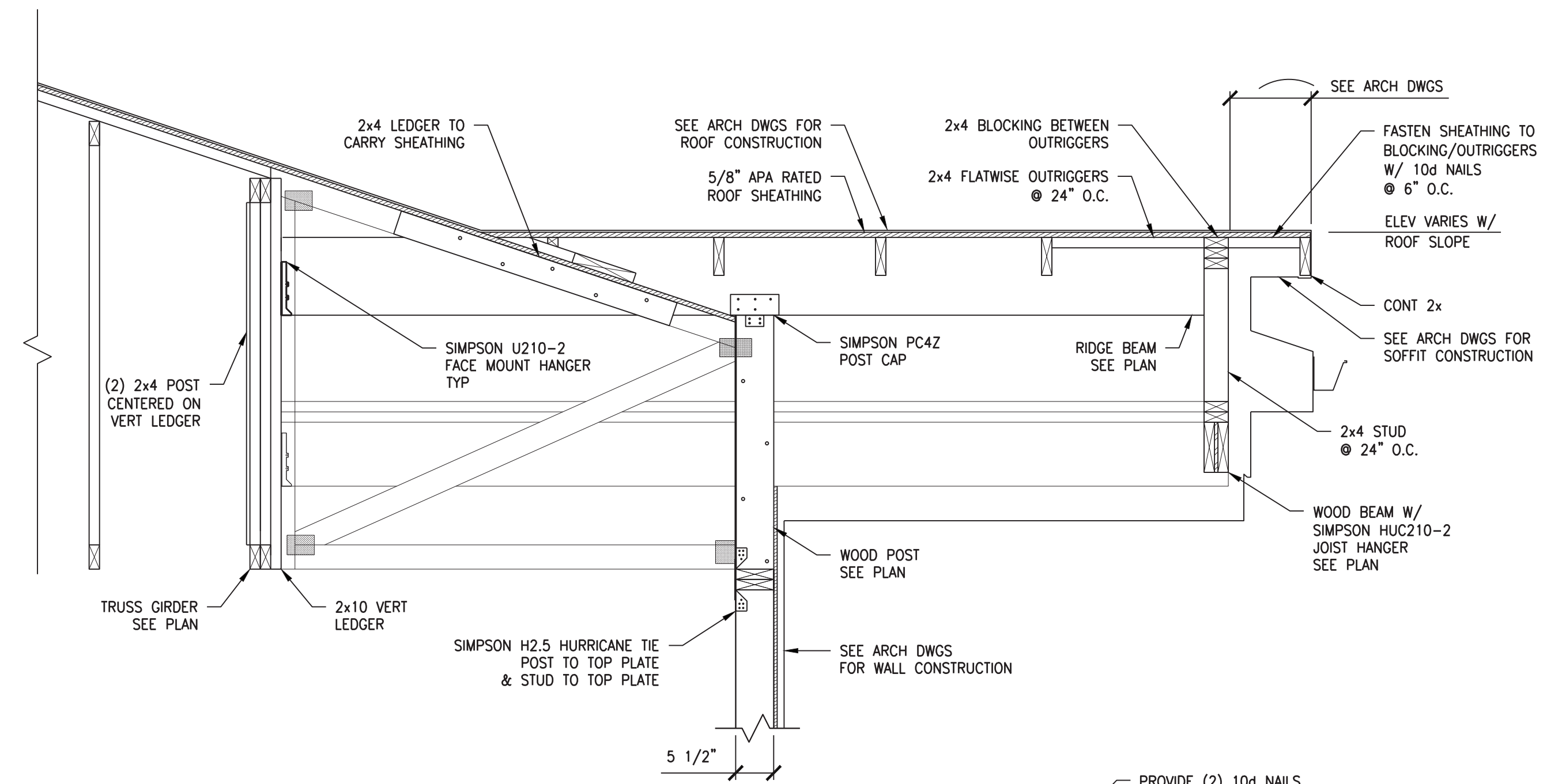


- NOTES:
1. PROVIDE PANEL H-CLIPS AT ALL ROOF SHEATHING UNSUPPORTED EDGES: ONE CLIP PER SPAN.
  2. APA PANELS SHALL BE MINIMUM OF TWO SPAN CONTINUOUS. ROOF SHEATHING SHALL RUN CONTINUOUS BELOW VALLEY JACK TRUSSES AT REVERSE GABLES.
  3. NAIL ROOF SHEATHING TO TRUSS W/10d COMMON NAILS W/1 1/2" MIN PENETRATION INTO TRUSS @ 6" O.C. AT SUPPORTED EDGES AND INTERMEDIATE FRAMING AT 12" O.C.
  4. ENDS OF ALL PANELS SHALL BEAR A MINIMUM OF 1/2" ONTO SUPPORTING MEMBER (TRUSS, RAFTER, ETC.).
  5. PROVIDE A 1/8"± GAP BETWEEN THE ENDS OF ALL PANELS TO ALLOW FOR EXPANSION OF PANELS.
  6. PANELS 24 INCHES OR WIDER SHOULD BE USED WHENEVER POSSIBLE. FOR PANEL WIDTHS GREATER THAN 16 INCHES BUT LESS THAN 24 INCHES, PROVIDE TWO PANEL H-CLIPS EQUALLY SPACED BETWEEN EACH PAIR OF SUPPORTS ALONG PANEL EDGE OR 2x WOOD BLOCKING CONTINUOUS ALONG EDGES. FOR PANEL WIDTHS GREATER THAN 12 INCHES BUT LESS THAN 16 INCHES, PROVIDE 2x WOOD BLOCKING CONTINUOUS ALONG EDGES. FOR PANEL WIDTHS 12 INCHES OR LESS, PROVIDE 2x WOOD BLOCKING CONTINUOUS ALONG BOTH EDGES, REGARDLESS OF ADJACENT RIDGE OR VALLEY.

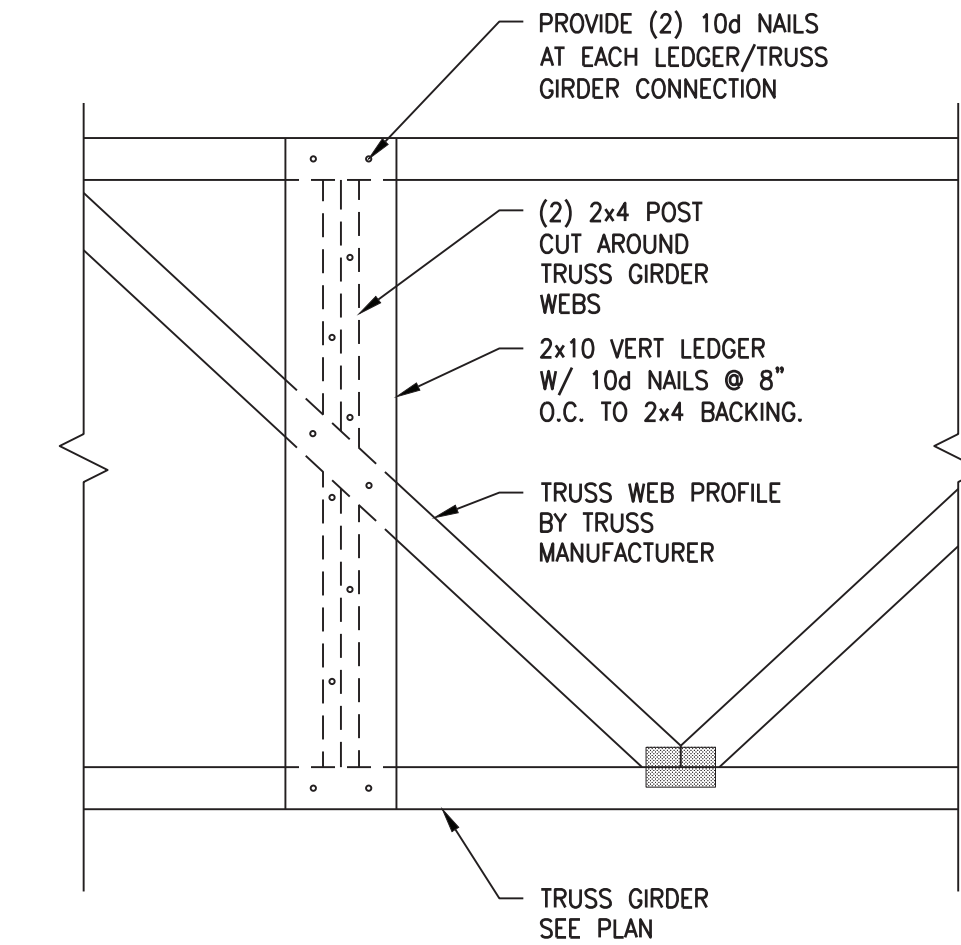
**ROOF SHEATHING LAYOUT**

NOT TO SCALE

B  
S4.2



PLAN



ELEVATION

**SECTION**

3/4"=1'-0"

C  
S4.2

AS-BUILT DRAWINGS

**RECORD DRAWINGS**

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWING SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.

BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020

**BROWN + KUBICAN**  
STRUCTURAL ENGINEERS PSC

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STATE OF KENTUCKY  
DAN KUBICAN, JR.  
2012  
LICENSED PROFESSIONAL ENGINEER

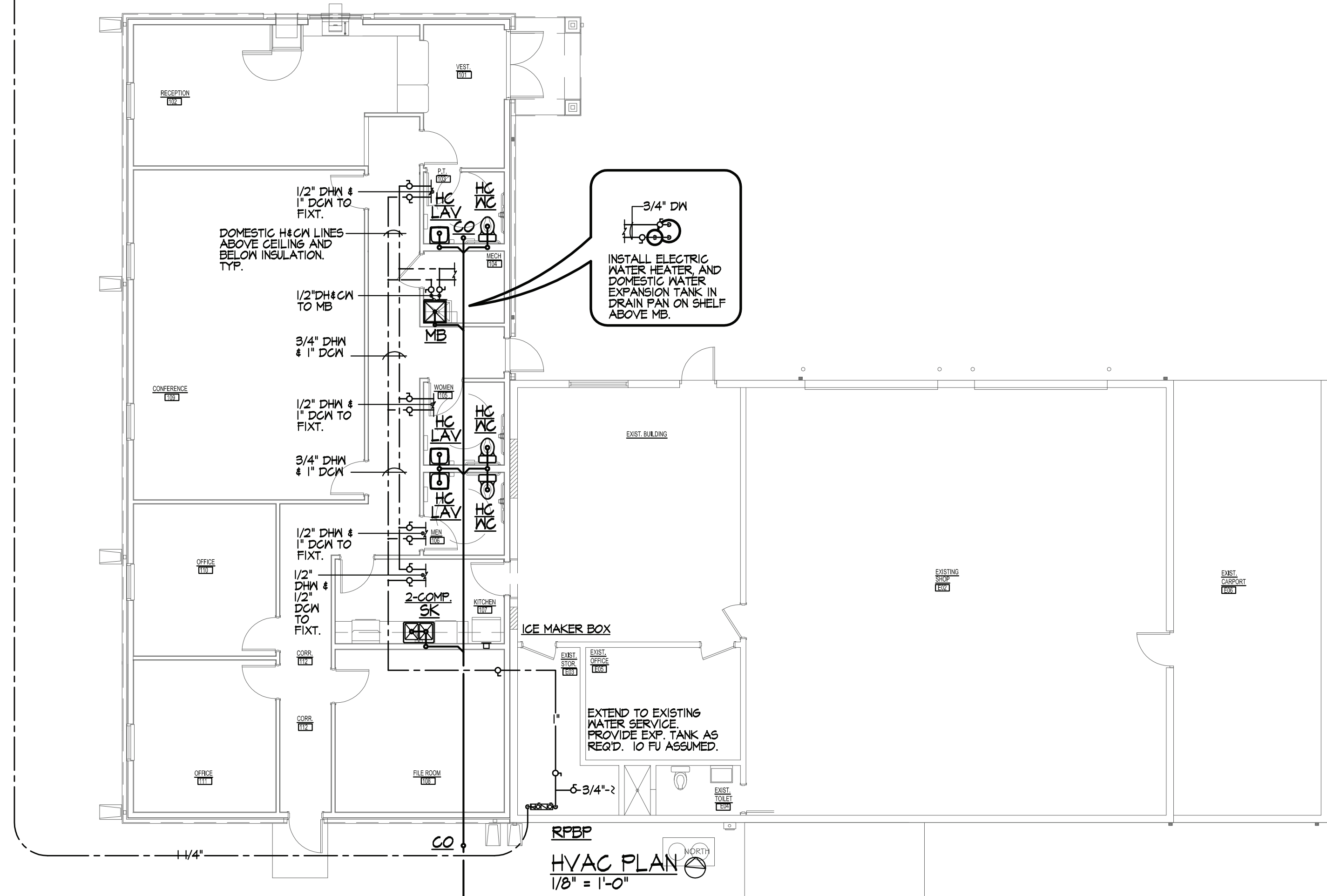
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**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT

TYPICAL FRAMING DETAILS		SHEET NO. <b>S4.2</b>
DATE NOVEMBER 2017	DRAWN BY MSC	CHECKED DK



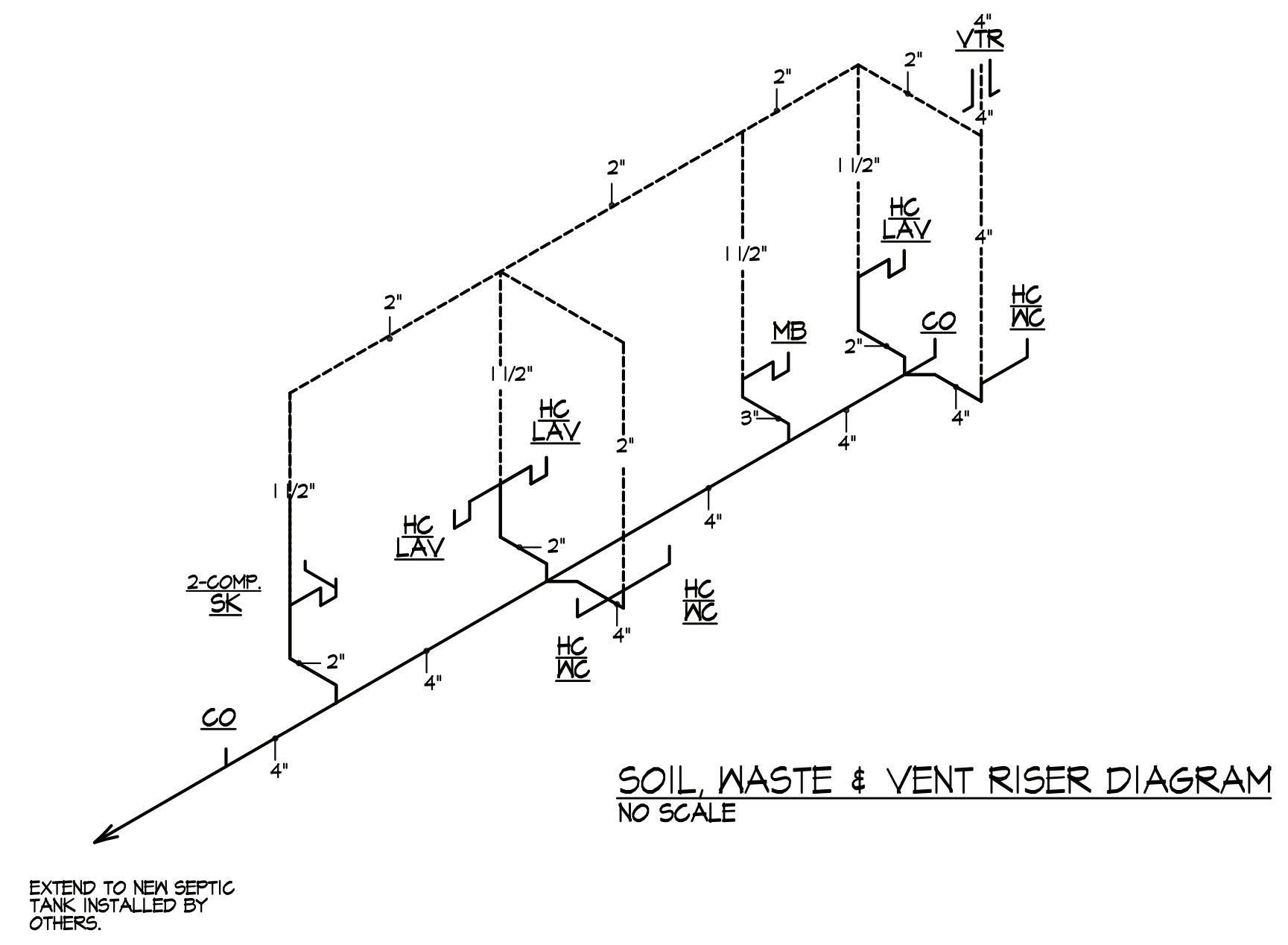
APPROXIMATE LOCATION OF EXIST. WATER METER, ABANDON EXIST. SERVICE AND CONNECT NEW SERVICE LINE AS SHOWN. 30 FT TOTAL.



3/4" DHM  
INSTALL ELECTRIC WATER HEATER AND DOMESTIC WATER EXPANSION TANK IN DRAIN PAN ON SHELF ABOVE MB.

PLUMBING FIXTURES			
LOCATION	FIXTURE	FIXTURE DESCRIPTION	FITTING
ALL	ACCESSIBLE FLUSH TANK WATER CLOSET (HCWC)	AMERICAN STANDARD CADET 3 RIGHT HEIGHT OR EQUIVALENT BARRIER FREE, FLOOR MOUNTED, ELONGATED, FLUSH TANK, VITREOUS CHINA WATER CLOSET WITH OPEN FRONT SOLID PLASTIC SEAT.	N/A
ALL WALL HUNG	ALL WALL HUNG ACCESSIBLE LAV (HC LAV)	AMERICAN STANDARD LUCERNE OR EQUIVALENT VITREOUS CHINA, BARRIER FREE WALL HUNG LAVATORY.	DELTA 501 OR EQUIVALENT SINGLE LEVER FAUCET WITH GRID STRAINER AND ZURN 1231 OR EQUIVALENT CARRIER. ACCESSIBLE LAVS ONLY SHALL HAVE MANUFACTURED DRAIN AND SUPPLY INSULATION KIT.
MECH. 104	MOP BASIN (MB)	FIAT OR EQUIVALENT 24x24 MOLDED STONE MOP BASIN.	FIAT OR EQUIVALENT WALL MOUNTED SERVICE SINK FAUCET WITH WALL BRACE, PAIL HOOK, VACUUM BREAKER AND HOSE END SPOUT.
KITCHEN	TWO COMP. SK (2 COMP. SK)	ELKAY LR - 2922 OR EQUIVALENT DOUBLE BOWS, 18 GAUGE, TYPE 302 STAINLESS STEEL SINK.	DELTA 100 OR EQUIVALENT SINGLE HANDLE KITCHEN DECK FAUCET AND CRUMB CUP STRAINER.
KITCHEN	ICE MAKER BOX	GLY GRAY WHITE POWDER COATED 20 GA STEEL ICEMAKER BOX WITH 1/4 TURN BALL VALVE OR EQ.	N/A
WATER SERVICE ENTRY	REDUCED PRESSURE BACKFLOW PREVENTORS (RPBP)	WILKINS MODEL 375 WITH STRAINER.	N/A
MECH. 104	ELECTRIC WATER HEATER (EWH)	LOCHINVAR JUNIOR SERIES OR EQUIVALENT 12 GAL. STUFFY ELECTRIC WATER HEATER WITH THERMOSTATIC MIXING VALVE AND EXPANSION TANK PIPED IN ACCORDANCE WITH MFR'S RECOMMENDATIONS. 1.5 KW, 120V/1PH.	N/A
AS REQUIRED AND WHERE SHOWN	TRAP PRIMERS	OREGON #1 BY PRECISION PLUMBING PRODUCTS OR EQ. WHERE ADEQUATE FIXTURE IS LOCATED SUFFICIENTLY NEAR THE FLOOR DRAIN(S).	N/A

SYMBOLS	
SOIL AND WASTE PIPING	———
VENT PIPING	- - - - -
NATURAL GAS PIPING	———
DOMESTIC HOT WATER PIPING	———
DOMESTIC COLD WATER PIPING	———
BALL VALVE	●
PIPE UP / DOWN	○



**RECORD DRAWINGS**

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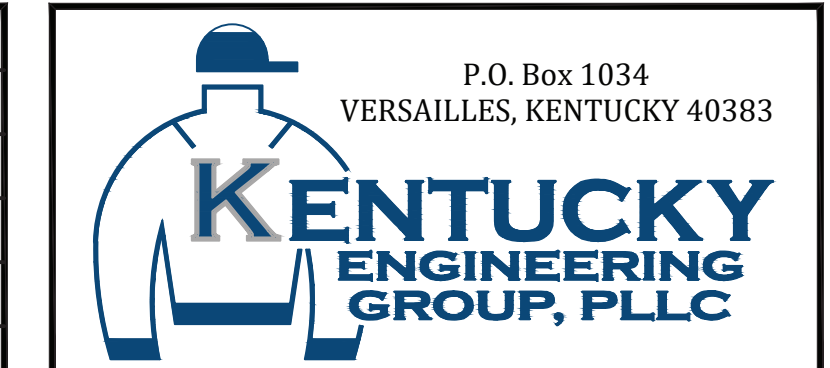
BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020

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NO.	DATE	REVISIONS	BY
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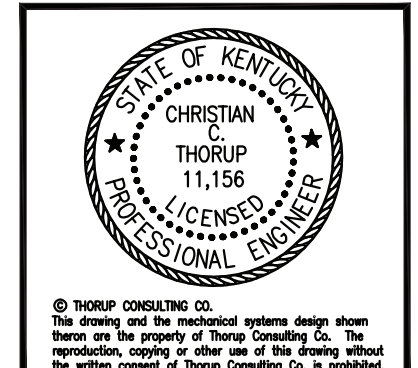
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PROJECT MGR:	
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**PHASE 11 WATER SYSTEM IMPROVEMENTS**

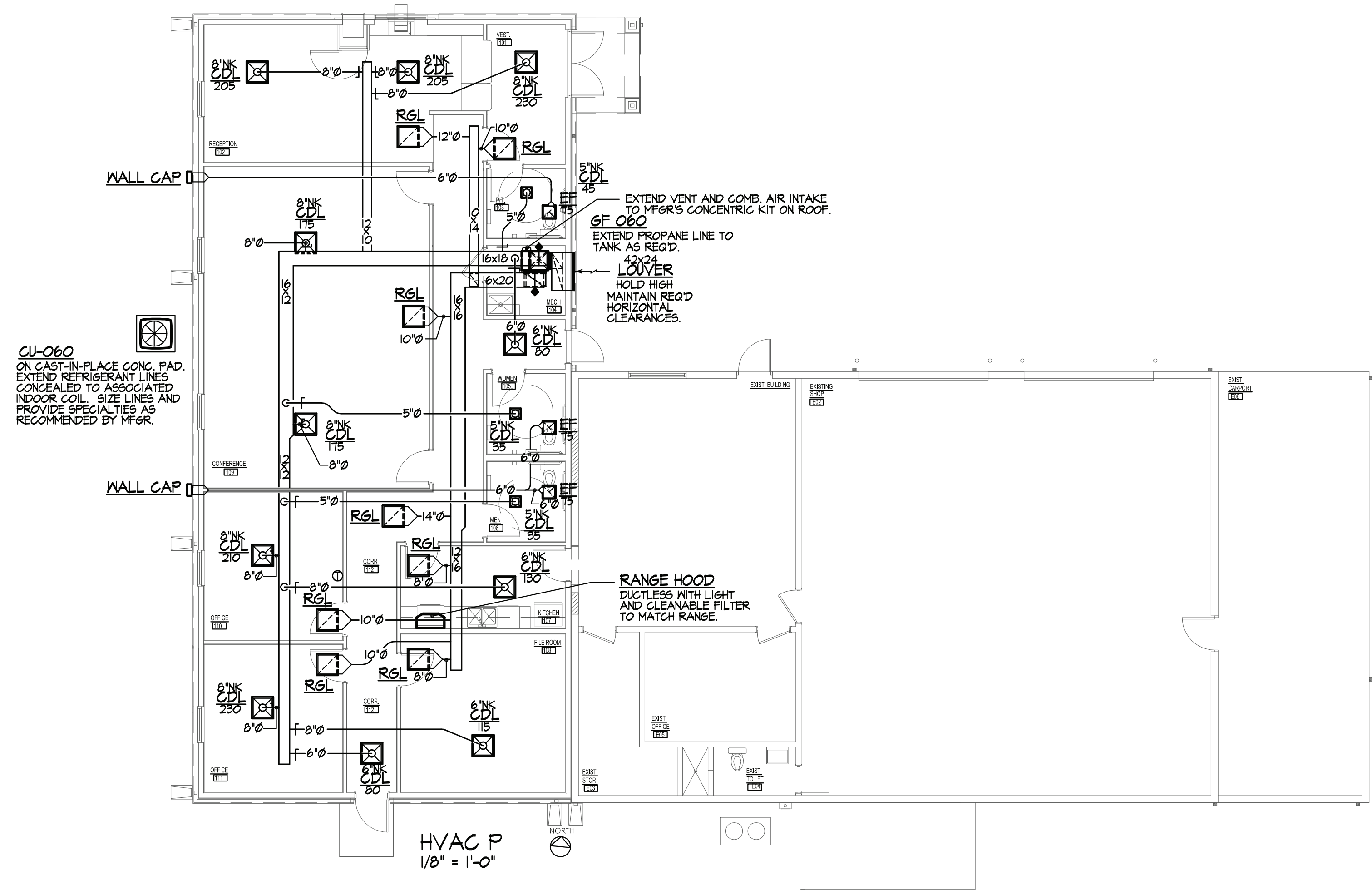
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT

**THORUP CONSULTING CO.**  
1324 Hunter Drive  
Lancaster, KY 40444  
Phone (859) 548-3810  
e-mail: thorupcc@windstream.net



PROJECT NO.	15036
SHEET NO.	M-1





**SPECIAL NOTE**  
 CONNECTIONS TO AIR DISTRIBUTION DEVICES SHALL BE MADE WITH RIGID DUCT THAT AT A MINIMUM EXTENDS FROM THE DEVICE TO THE BRANCH DUCT. PAY PARTICULAR ATTENTION THAT DUCT PENETRATIONS OF THE INSULATION BARRIER BE SEALED AGAINST AIRFLOW FROM THE OCCUPIED SPACE TO THE ATTIC.

**AIR DISTRIBUTION DEVICES**

**CEILING DIFFUSERS FOR LAY-IN (CDL) MOUNTING**  
 SHALL BE KRUGER 1400 OR EQ. STEEL, ROUND NECK, LOUVER FACE DIFFUSERS WITH THE ENTIRE PANEL AREA LOUVERED AND MARGINS FOR THE CEILING TYPE INDICATED. NECK SIZES AND PANEL SIZES SHALL BE AS SHOWN ON THE DRAWINGS.

**CEILING RETURN AIR GRILLES FOR LAY-IN (RGL)**  
 SHALL BE KRUGER EG SERIES CUBE CORE RETURN AIR GRILLES WITH 1/2" ALUMINUM CUBES THE ENTIRE FACE AREA OF THE PANEL AND MARGINS FOR THE CEILING TYPE INDICATED. PANEL SIZE SHALL BE AS SHOWN ON THE DRAWINGS.

**LOUVER**  
 SHALL BE UNITED ENERTECH FL-D-4 EQ. ALUMINUM LOUVERS WITH DRAINABLE BLADES IN A FINISH SELECTED BY ARCHITECT. SIZES SHALL BE AS SHOWN ON THE DRAWINGS. LOUVERS IN NEW WALLS SHALL HAVE CHANNEL FRAMES. PROVIDE WITH WITH INSECT SCREENS. PRESSURE DROP SHALL NOT EXCEED .05" AT MAX. INTAKE SHOWN.

**SYMBOLS**

GAS FURNACE	GF
CONDENSING UNIT	CU
EXHAUST FAN	EF
THERMOSTAT	⊕
DUCT UP / DOWN DOUBLE LINE (SUPPLY AIR SHOWN)	▣
SUPPLY AIR DESIGNATION	▣
RETURN AIR / OUTSIDE AIR DESIGNATION	▣
EXHAUST AIR DESIGNATION	▣
MANUAL DAMPER	┌
MOTORIZED DAMPER	⊗
PIPE UP / DOWN	○→
CONDENSATE DRAIN	CD

**SCHEDULE OF FANS**

MARK	APPLICATION / LOCATION	MOUNTING	TYPE	MANUFACTURER	MODEL	CFM	FAN HP	ESP	DRIVE	SONES	V / PH / HZ	REMARKS
EF 75	TOILET EXHAUST	CEILING	CABINET	COOK	GC140	100	70 W.	.375	DIRECT	3.6	120/1/60	1

REMARKS: 1. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER AND INLET GRILLE. OPERATE FROM MOTION SENSOR.

**SCHEDULE OF PROPANE FURNACES WITH SPLIT COOLING SYSTEMS**

MARK	CONFIGURATION	MANUFACTURER	MODEL	HEATING (MBH)					COOLING (2)		ELECTRICAL				CONDENSING UNIT				REMARKS				
				SEER	INPUT	OUTPUT	EFF.	CFM	ESP (1)	COIL MFR	COIL MODEL	MAX. COIL PD	NET MBH TOTAL	NET MBH SENS.	V / PH / HZ	MCA	MAX. FUSE	MANUFACTURER		MODEL	V / PH / HZ	MCA	MAX. FUSE
GF-060 / CU-060	VERTICAL UPFLOW	CARRIER	59SC SERIES	14	80	78	95+	1,950	.5"	CARRIER	CAPM SERIES	SEE FOOTNOTES	57.34	44.44	115-1-60	14.5	20	CARRIER	24ACC SERIES	208/230-1-60	27.5	40	1

FOOTNOTES: 1. ESP IS STATIC PRESSURE AVAILABLE FOR DUCTWORK AND IS EXCLUSIVE OF ALL INTERNAL LOSSES INCLUDING ECONOMIZER LOSSES.  
 2. COOLING CAPACITIES ARE RATED AT 80 EDB / 67 EWB AND 95 AMBIENT.  
 3. PROVIDED WITH FILTERS, FILTER FRAMES, REQUIRED APPURTENANCES AND CONTROLS IN ACCORDANCE WITH IECC 2012

REMARKS: 1. PROVIDE WITH ECONOMIZER AND CONTROLS. CONFIGURE FOR BOTTOM OUTSIDE AIR CONNECTION AND SIDE RETURN AIR CONNECTION.

**RECORD DRAWINGS**

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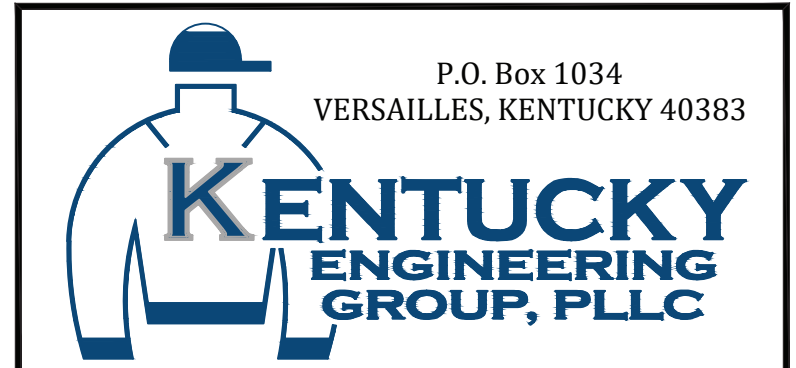
BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020

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NO.	DATE	REVISIONS	BY
1	01-31-2020	AS-BUILT DRAWINGS	LEG

DATE: NOVEMBER 2017  
 PROJECT MGR:  
 DRAWN BY: CCT  
 CHECKED BY: CCT  
 SCALE: AS NOTED  
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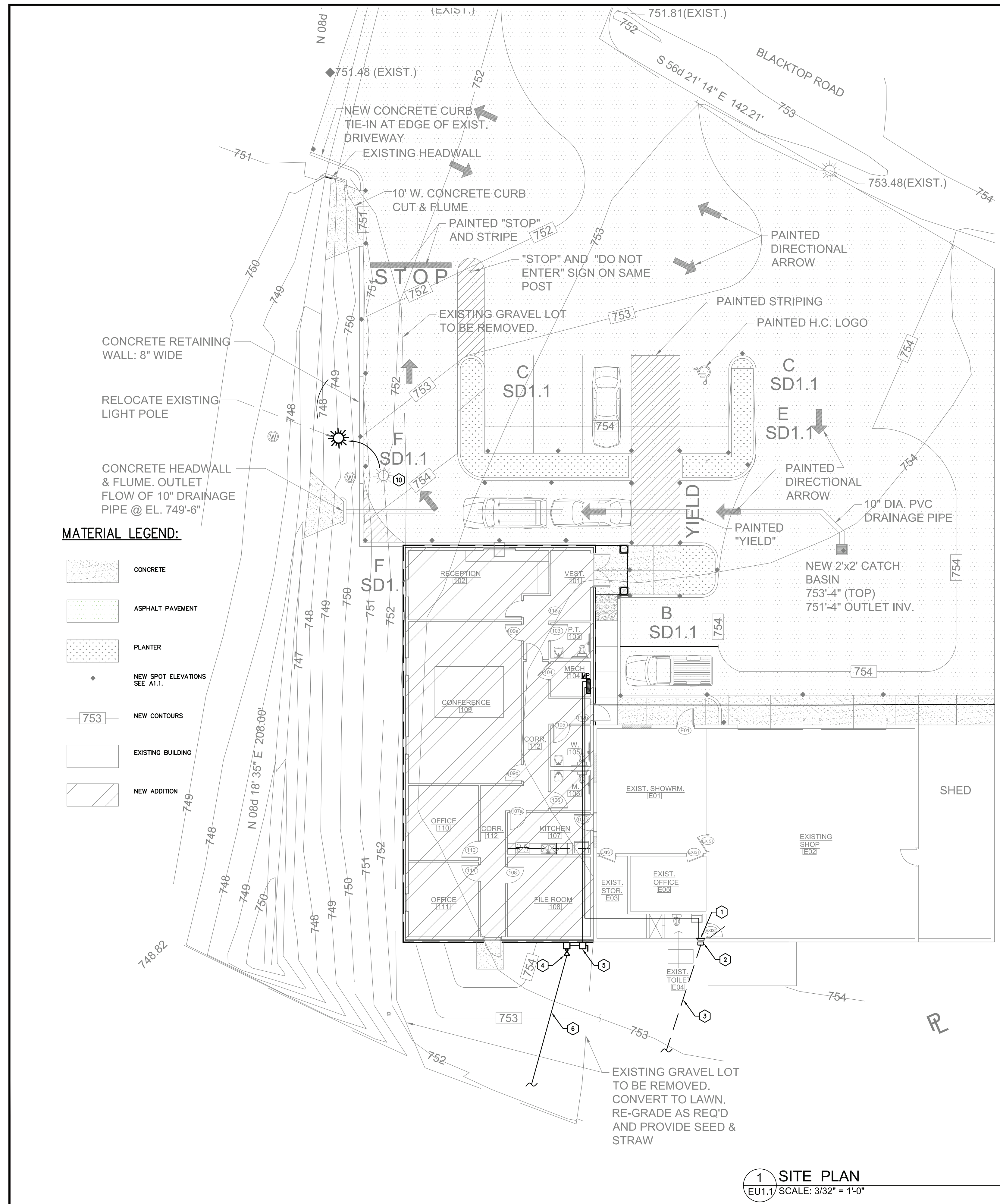
**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
 CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT

**THORUP CONSULTING CO.**  
 1324 Hunter Drive  
 Lancaster, KY 40444  
 Phone (859) 548-3810  
 e-mail: thorupcc@windstream.net



PROJECT NO. 15036  
 SHEET NO. M-2





**MATERIAL LEGEND:**

- CONCRETE
- ASPHALT PAVEMENT
- PLANTER
- NEW SPOT ELEVATIONS SEE A1.1.
- NEW CONTOURS
- EXISTING BUILDING
- NEW ADDITION

**1 SITE PLAN**  
EU1.1 SCALE: 3/32" = 1'-0"

LOAD KW		DESCRIPTION		DESCRIPTION		LOAD KW	
A	B	A	B	A	B	A	B
.9	.7	LTG	1	60/2	RANGE	5	5
1.1	.9		3				
1.2	.8		5		DISHWASHER	1.5	1.2
	1.0		7		REFRIGERATOR		
	.8	RECEPS: #102	11	12	RECEPS: KITCHEN COUNTER	1.5	1.5
	1.0	RECEPS: #101	13	14	RECEPS: #109	.8	.8
	.6	RECEPS: #105,106,107	15	16	RECEPS: #109 (FLOOR)	.6	.6
	1.0	RECEPS: #110,112	19	20	RECEPS: #103,104	.6	.6
	.8	RECEPS: #111,110	21	22	SPARE		
		RECEPS: #108	23	24	SPARE		
		SPARE	25	26			
			27	28			
			29	30	EMH	1.5	1.5
			31	32	GF060		1.6
			33	34	40/2 CU060	4	4
			35	36			
		SPARE	50/2	37	200/2 EXIST.PANEL		
			39	40			
6	5					15	15

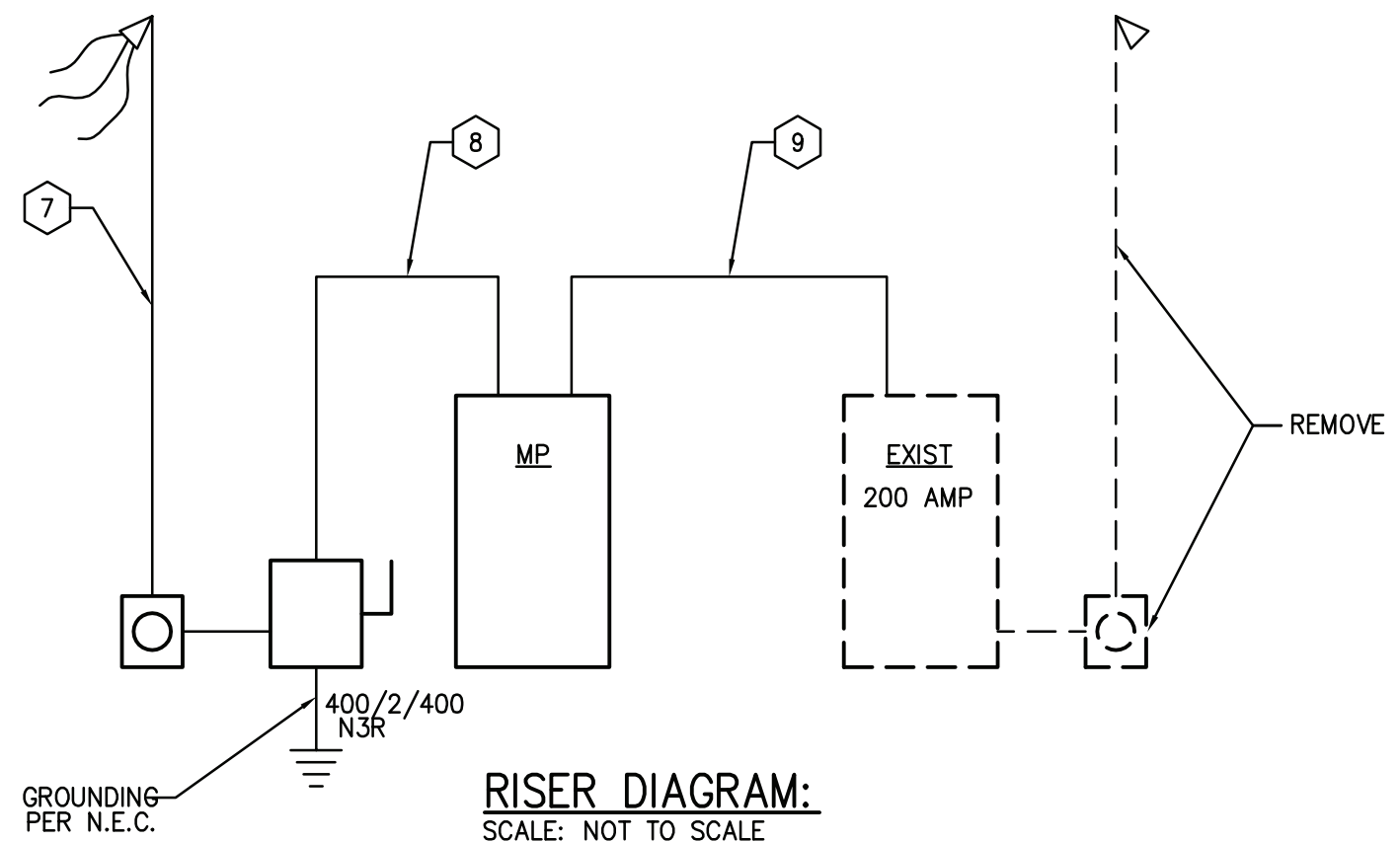
NOTE:  
ALL BREAKERS TO BE 20 AMP UNLESS NOTED OTHERWISE

TOTAL CONNECTED LOAD 41 KW 179A, 240v, 1φ  
223A @ 125%

A: 21 KW B: 20 KW

**ELECTRICAL TAG NOTES:**

- EXISTING MAIN ELECTRICAL PANEL (CROUSE HINDS) WITH 200 AMP MAIN BREAKER, 30 CIRCUIT, 240/120V, 1 PHASE, 3 WIRE. BACKFEED FROM NEW MAIN SERVICE PANEL AFTER ENERGIZED.
- EXISTING UTILITY COMPANY (GRAYSON RECC) METER AND OVERHEAD SERVICE MAST WITH WEATHERHEAD. REMOVE ENTIRE EXISTING ELECTRICAL SERVICE ONCE NEW MAIN SERVICE IS ENERGIZED AND EXISTING PANEL IS BACKFEED. PATCH EXISTING ROOF OPENING WHERE CONDUIT MAST PENETRATED.
- EXISTING AERIAL SERVICE DROP FROM UTILITY COMPANY. COORDINATE WITH THE LOCAL OFFICE OF GRAYSON RECC (SCOTT SPEAKS) FOR SERVICE DROP REMOVAL ONCE NEW SERVICE DROP IS IN PLACE AND ENERGIZED.
- NEW UTILITY METER BANK ON NEW EXTERIOR WALL WITH CONDUIT SERVICE MAST. SEE RISER DIAGRAM THIS SHEET.
- NEW 400 AMP, 240/120V, 1 PHASE, 3 WIRE FUSED DISCONNECT SWITCH (SERVICE-ENTRANCE RATED) TO SERVE NEW MAIN PANEL "MP". FUSE AT 400 AMPS.
- NEW OVERHEAD SERVICE DROP BY GRAYSON RECC.
- (3) #500 Kcmil COPPER IN 3" RIGID METAL CONDUIT (HEIGHT PER N.E.C.).
- (3) #500 Kcmil COPPER, (1) #3 GROUND IN 3" EMT.
- (3) #3/0 COPPER, (1) #6 GROUND IN 2" EMT.
- RELOCATE EXISTING LIGHT POLE TO POSITION AS SHOWN. EXTEND EXISTING FEEDER TO NEW LOCATION.



**LEGEND OF ELECTRICAL SYMBOLS**

- 2x4' RECESSED FLUORESCENT LIGHTING FIXTURE WITH JUNCTION BOX AND FIXTURE WHIP (LENGTH AS REQUIRED)
- METAL HALIDE, HIGH INTENSITY DISCHARGE LIGHTING FIXTURE
- METAL HALIDE, HIGH INTENSITY DISCHARGE LIGHTING FIXTURE WITH QUARTZ RESTRIKES
- RECESSED DOWNLIGHT - FLUORESCENT (INTERIOR)
- EXTERIOR SURFACE MOUNTED, H.I.D., BUILDING SECURITY LIGHT
- 4', SURFACE MOUNTED, FLUORESCENT LIGHTING FIXTURE
- 4', SURFACE MOUNTED, FLUORESCENT LIGHTING FIXTURE
- WALL MOUNTED FLUORESCENT LIGHTING FIXTURE
- EXPLOSION PROOF (CLASS 1, DIVISION 2), METAL HALIDE, LIGHTING FIXTURE
- METAL HALIDE, FLOODLIGHT
- SURFACE MOUNTED, COMPACT FLUORESCENT, LIGHTING FIXTURE
- EXIT SIGN WITH BATTERY BACKUP & 2 INTEGRAL EGRESS LAMP HEADS
- EXIT SIGN WITH BATTERY BACKUP; ARROWS DENOTE DIRECTION OF EXIT CHEVRONS
- REMOTE EMERGENCY LAMP HEADS RATED FOR HAZARDOUS AREA (CLASS 1, DIVISION 2)
- REMOTE MOUNTED BATTERY PACK FOR EXPLOSION PROOF EMERGENCY LAMP HEADS
- STANDARD EMERGENCY EGRESS UNIT WITH BATTERY BACKUP & 2 LAMP HEADS
- EXTERIOR PERSONNEL DOOR WITH D.C. SOCKET FOR EMERGENCY EGRESS LIGHTING
- 120 VOLT DUPLEX CONVENIENCE RECEPTACLE AT 16" A.F.F. U.O.N.
- 120 VOLT DUPLEX CONVENIENCE RECEPTACLE RATED FOR HAZARDOUS LOCATIONS (CLASS 1, DIVISION 2); MOUNT AT 16" A.F.F. U.O.N.
- 120 VOLT GROUND FAULT INTERRUPTING RECEPTACLE AT 16" A.F.F. U.O.N.
- 120 VOLT 4-PLEX CONVENIENCE RECEPTACLE AT 16" A.F.F. U.O.N.
- SIMPLEX RECEPTACLE OUTLET; SUBSCRIPT DENOTES STANDARD NEMA #
- ELECTRIC WATER COOLER OUTLET
- WEATHER PROOF 120 VOLT DUPLEX RECEPTACLE MOUNTED OUTSIDE AND AT ROOFTOP HVAC UNITS
- IN-SLAB FLOOR BOX; NUMBER OF COMPARTMENTS AND PROVISIONS FOR POWER, TELEPHONE, AND DATA AS NOTED ON THE PLANS
- 120V DUPLEX CONVENIENCE RECEPTACLE MOUNTED ABOVE COUNTER
- TELEPHONE/DATA OUTLET MOUNTED AT 18" A.F.F. - PROVIDE DEVICES AND WIRING IN 3/4" CONDUIT, BACK TO TELEPHONE BACKBOARD.
- WALL MOUNTED, PAYPHONE, TELEPHONE OUTLET BOX AT 5'-0" A.F.F.
- JUNCTION BOX, SIZED PER N.E.C. (CURRENT EDITION)
- SURFACE MOUNTED PANELBOARD
- SINGLE POLE, SINGLE THROW (SPST) SWITCH; MOUNT AT 48" A.F.F. UNLESS OTHERWISE NOTED
- 3-WAY SWITCH; MOUNT AT 48" A.F.F. UNLESS OTHERWISE NOTED
- 4-WAY SWITCH AT 48" A.F.F. U.O.N.
- KEY OPERATED, SPST SWITCH; MOUNT AT 48" A.F.F. UNLESS OTHERWISE NOTED
- DRY-TYPE, LOW VOLTAGE, TRANSFORMER

**RECORD DRAWINGS**  
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWING SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.  
BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2020

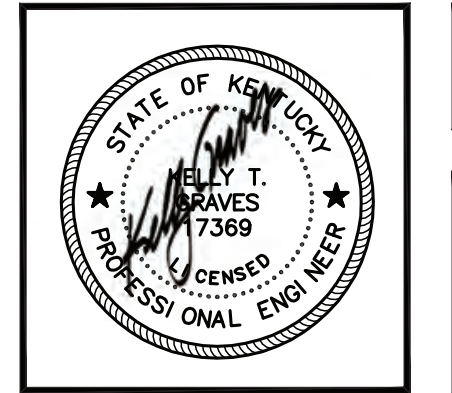
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NO.	DATE	REVISIONS	BY
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DATE: NOVEMBER 2017  
PROJECT MGR:  
DRAWN BY:  
CHECKED BY: KTG  
SCALE: AS NOTED  
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**PHASE 11 WATER SYSTEM IMPROVEMENTS**  
CONTRACT 5 - NEW OFFICE BUILDING FOR THE RATTLESNAKE RIDGE WATER DISTRICT



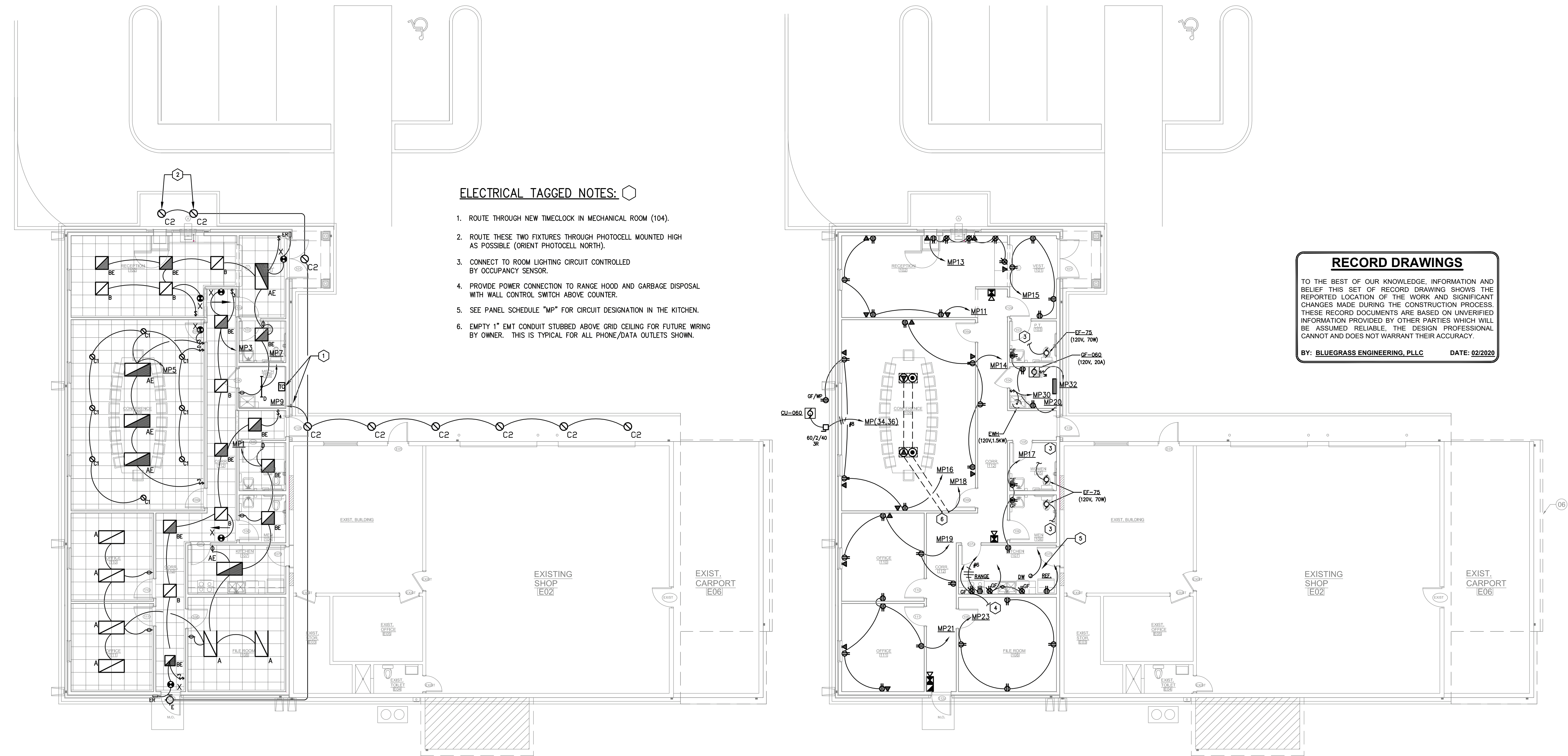
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SHEET NO. EU1.1



**LIGHTING FIXTURE SCHEDULE – RATTLESNAKE RIDGE WATER DISTRICT**

QUANTITY	TYPE	MANUFACTURER	CATALOG #	LAMP		DESCRIPTION
				NO	VOLT	
	A	COLUMBIA	LJT24-40MLG-FSA12-EDU	MEDIUM LUMEN	120	2'x4', RECESSED, LED TROFFER W/ RECESSED WHITE TRIM AND #A12 PRISMATIC LENS
	AE	COLUMBIA	LJT24-40MLG-FSA12-EDU-ELL14	MEDIUM LUMEN	120	SAME AS "A", EXCEPT WITH AN EMERGENCY BATTERY PACK (1400 LUMEN OUTPUT)
	B	COLUMBIA	LJT22-40LWG-FSA12-EDU	LOW LUMEN	120	2'x2', RECESSED, TROFFER W/ RECESSED WHITE TRIM AND #A12 PRISMATIC LENS
	BE	COLUMBIA	LJT22-40LWG-FSA12-EDU-ELL14	LOW LUMEN	120	SAME AS "B", EXCEPT WITH AN EMERGENCY BATTERY PACK (1400 LUMEN OUTPUT)
	C1	PRESCOLITE	LC6LED120DM6LCLD640K8	MEDIUM LUMEN	120	RECESSED LED DOWNLIGHT, DIMMABLE
	C2	PRESCOLITE	DBXQL-LB6LED10L35K-WH	MEDIUM LUMEN	120	WET LOCATION EXTERIOR, DOWNLIGHT
	D	COLUMBIA	LCS4-40LW-EDU	LOW LUMEN	120	4', LED STRIP FIXTURE
	E	HUBBELL	LNC2-9L-U-4K-3-1	LED	120	LED-LAMPED EXTERIOR WALL PACK
	X	COMPASS	CER	LED	120	L.E.D., POLYCARBONATE, EXIT LIGHT W/ BATTERY BACKUP, WHITE HOUSING, NO HEADS
	ER	HUBBELL	POB-HTR	LED	120	EXTERIOR EGRESS HEAD
	φ	HUBBELL	LHD-1RS3-N-COLOR	-	120	WALL OCC. SENSOR WITH DIMMING COMPATIBLE WITH FIXTURES CONTROLLED

NOTES: 1) ALL LIGHTING FIXTURES SHALL HAVE L.E.D. LAMPING  
 2) ALL EMERGENCY AND EXIT FIXTURES ARE TO MEET N.F.P.A. 101 LIFE SAFETY REQUIREMENTS  
 3) THE LIGHTING FIXTURE SPECIFICATIONS ABOVE ARE REPRESENTATIVE OF THE BASIS OF DESIGN AND SHALL BE USED AS SPECIFIED.  
 4) VERIFY NECESSARY MOUNTING TRIMS WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT CEILING TYPES.



**ELECTRICAL TAGGED NOTES:**

- ROUTE THROUGH NEW TIMECLOCK IN MECHANICAL ROOM (104).
- ROUTE THESE TWO FIXTURES THROUGH PHOTOCELL MOUNTED HIGH AS POSSIBLE (ORIENT PHOTOCELL NORTH).
- CONNECT TO ROOM LIGHTING CIRCUIT CONTROLLED BY OCCUPANCY SENSOR.
- PROVIDE POWER CONNECTION TO RANGE HOOD AND GARBAGE DISPOSAL WITH WALL CONTROL SWITCH ABOVE COUNTER.
- SEE PANEL SCHEDULE "MP" FOR CIRCUIT DESIGNATION IN THE KITCHEN.
- EMPTY 1" EMT CONDUIT STUBBED ABOVE GRID CEILING FOR FUTURE WIRING BY OWNER. THIS IS TYPICAL FOR ALL PHONE/DATA OUTLETS SHOWN.

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BY: BLUEGRASS ENGINEERING, PLLC      DATE: 02/2020

**1 LIGHTING PLAN**  
 E1.1 SCALE: 1/8" = 1'-0"

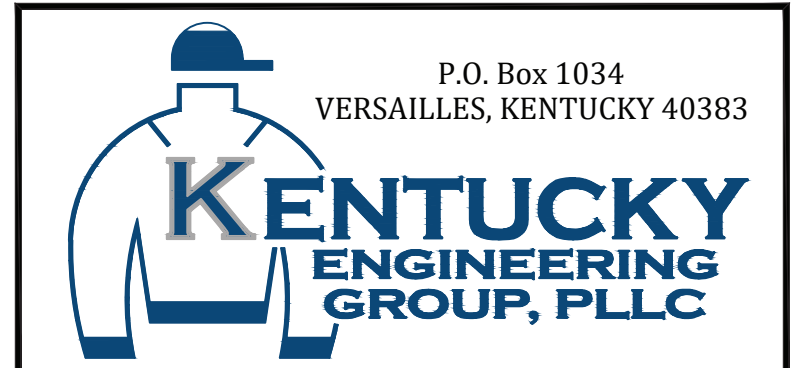
**2 GENERAL POWER & SYSTEMS PLAN**  
 E1.1 SCALE: 1/8" = 1'-0"

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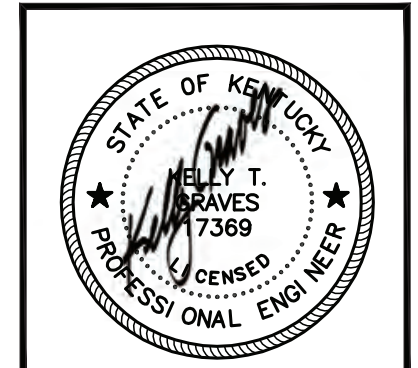
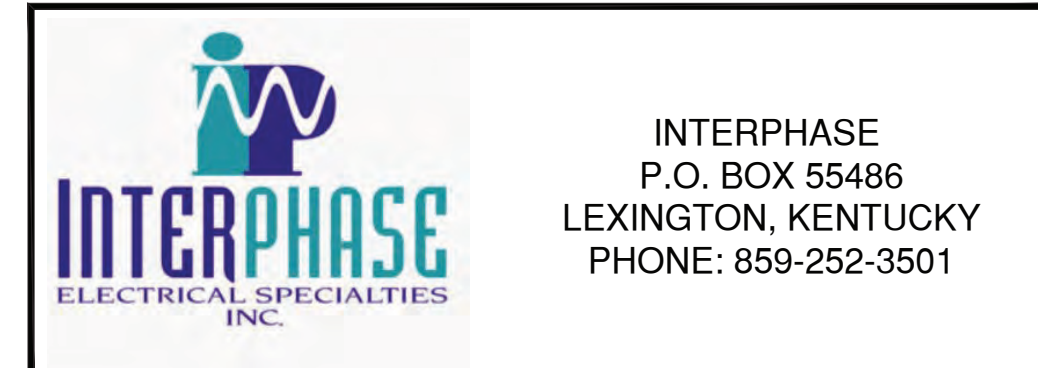
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