

ARCHITECHNICS, INC.
510 MAINE STREET
QUINCY, ILLINOIS 62301

PROJECT NO. : 5998, 6003A, 6003B, 6004, 6036

ADDENDUM NO.: 2
ISSUED: 3/31/2021

Project: 2021 Capital Improvements
RALLS COUNTY R-II SCHOOL DISTRICT
21622 HIGHWAY 19
CENTER, MO 63436

This addendum becomes a part of the bidding and contract documents and modifies the drawings and specifications dated March 5, 2021. Acknowledge receipt of this addendum by noting such on the Contractor's Proposal (Bid) Form.

FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION

ITEM	DESCRIPTION		
<u>Clarification</u>			
1.0	Bidding Procedures		Indicate clearly on the sealed bid envelope which project bids are being offered for: list either Base Bid A; Base Bid B; Base Bid C; Base Bid D; Base Bid E; or Base Bid F. If multiple bids are being offered list each bid on the sealed envelope.
<u>Substitutions</u>			
2.0	Spec.Section 03 3000 Cast In Place Concrete		PPG Perma Crete is an acceptable sealer for concrete floors.
3.0	Spec.Section 09 6724 Resinous Flooring		Xtreme Polishing Systems and Tennant Coatings is an approved substitute manufacturer. Missouri Terrazzo is not approved.
4.0	Spec.Section 23 7400 Packaged Outdoor HVAC Equipment		Allied Commercial K-Series is an approved product manufacturer.
5.0	Spec.Section 26 5000 Lighting Fixtures		Daybrite, Lightolier, Stonco, and Chloride are approved product manufacturers.
6.0	Spec.Section 26 5668 Exterior Field Lighting		Techline, Cooper-Ephesus, and Carolina High Mase are approved substitute manufacturers.
<u>Specifications</u>			
7.0	Section 00 4322 Unit Prices Form	Replace	Replace with attached revised section. Changes referenced prtojec for Unit Price #5 to 6003A.
8.0	Section 10 2800 Toilet Accessories	Replace	Replace with attached revised section. Added schedule.
9.0	Spec.Section 23 7400 Packaged Outdoor HVAC Equipment	Revise	Equipment can be ~14/11 SEER/EER with single stage compressor equal to Allied K-Series units.

10.0	Spec.Section 23 8126 Mini Split Heat Pump Systems	Revise	Warranty shall be 1 year parts and labor and 5 year compressor.
11.0	Section 26 5668 Exterior Field Lighting	Add	Add attached revised section.
12.0	Section 32 3113 Fences and Gates	Replace	Replace with attached revised section. Fence fabric revised.

Drawings - Project 5998

13.0	Sheet A101 Project 5998	Replace	Replace with attached revised sheet. RES-1 and RES-2 base height added. Closet 219 to be VCT-1 and RCB-1. Existing flooring to remain in Restroom 216 per keyed note #14. Storage 228 and Janitor 229 to receive no base. Storage 190 flooring to remain as is post flooring abatement.
14.0	Sheet A102 Project 5998	Replace	Replace with attached revised sheet. Added dimensions for toilet partitions. RES-1 and RES-2 base height added. Keyed note #2 added to Choral Music B-1. No new base installed in this room. Janitor B-13 and Dry B-14 to receive no new finishes. Janitor B-3 to receive no new finishes.

Drawings - Project 6003A

15.0	Sheet C101 Project 6003A	Replace	Replace with attached revised sheet. Added Field Lighting spec section. Revised circuit to Fixtures F2, and F3 to meet 3% voltage drop.
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Drawings - Project 6003B

16.0	Sheet G000 Project 6003B	Replace	Replace with attached revised sheet. Wall Type B note revised.
17.0	Sheet S102 Project 6003B	Replace	Replace with attached revised sheet. Added beam schedule.
18.0	Sheet S301 Project 6003B	Replace	Replace with attached revised sheet. Gravel base clarified. Wall section detail revised.
19.0	Sheet A100 Project 6003B	Replace	Replace with attached revised sheet. Wall section detail revised. Added dimensions for toilet partitions, baby changing station and shower seat. Added fire extinguishers.
20.0	Sheet A101 Project 6003B	Replace	Replace with attached revised sheet. Wall section detail revised.
21.0	Sheet P200 Project 6003B	Add	PVC CL200 is approved for the water main piping.

Drawings - Project 6036

22.0	Sheet G000 Project 6036	Replace	Replace with attached revised sheet. OH door size revised. OH door detail notes revised. Wall Type B note revised.
23.0	Sheet S101 Project 6036	Replace	Replace with attached revised sheet. Added thickened slab and note.
24.0	Sheet S102 Project 6036	Replace	Replace with attached revised sheet. Added stud bearing wall and note.
25.0	Sheet S301 Project 6036	Replace	Replace with attached revised sheet. Gravel base clarified.

26.0	Sheet S401 Project 6036	Replace	Replace with attached revised sheet. Wall section detail revised. Added beam schedule.
27.0	Sheet A100 Project 6036	Replace	Replace with attached revised sheet. Wall section detail revised. Added fire extinguishers.
28.0	Sheet A200 Project 6036	Replace	Replace with attached revised sheet. OH door size and notes revised. Wall section detail revised.

Attachments: Plan Holder Lists; Spec section 00 4322; 10 2800; 26 5668; 32 3113; Drawings 5998-A101; 5998-A102; 6003A-C101; 6003B-G000; 6003B-S102; 6003B-S301; 6003B-A100; 6003B-A101; 6036-G000; 6036-S101; 6036-S102; 6036-S301; 6036-S401; 6036-A100; 6036-A200.

RECORD OF PLANS AND SPECIFICATIONS

PAGE NO. One

NAME OF PROJECT

Interior Renovations

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 5998 DATE BIDS DUE Thursday, April 08, 2021 DEPOSIT \$50.00

TIME AND PLACE OF LETTING

3:00 PM Architechnics, Inc

510 Maine Street - Floor 10, Quincy, IL

*** Indicates Potential Bidding Contractor

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Architect	#1				
Owner	#2				
*** Trotter General Contracting, Inc 900 Doran Drive Macomb, IL 61455 309-836-5040 Fax: 309-836-3756 troyleander@icloud.com	D	3/12/2021			
Moore's Floors 2516 W. Schneidman DR Quincy, IL 62305 217 223-9924 Fax: 217 223-9880 m.moore@moorefloors.us	D	3/12/2021			
*** Schwada Builders, Inc. PO Box 487 Shelbina, MO 63468 573-588-4079 Fax: 573-588-7605 bschwada@yahoo.com	D	3/12/2021			
*** Freise Construction 17 Reckamp Road Old Monroe, MO 63369 636-661-5176 Bids@FreiseConstruction.com	D	3/12/2021			
The Builders' Association 3632 West Truman Boulevard Jefferson City, MO 65109 573-893-3307 jeffcity@buildersassociation.com	D	3/12/2021			
*** Bleigh Construction PO Box 957 Hannibal, MO 63401 573-221-2247 Fax 573-221-4331 lvannatta@bleigh.com	D	3/12/2021			
Meyer Electric Co. Inc. 3513 N. Ten Mile Dr. Jefferson City, MO 65109 573 893-2335 Fax: 573 893-3686 office@meyerelectric.net	D	3/15/2021			
Tri-County Electrical Contractors 27469 Florida Rd. Center, MO 63436 573 565-3469 Fax: 574-565-0037 pbarnes@tricountyelectrical.com	D	3/15/2021			

RECORD OF PLANS AND SPECIFICATIONS

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Interior Renovations

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 5998

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Jansen Electric 4421 N. 60th Street Quincy, IL 62305 217-223-4016 Fax 217-223-8046 jansen@adams.net	#3	3/16/2021			
Construct Connect 3825 Edwards Road, STE. 800 Cincinnati, OH 45209 800-364-2059 gwen.tanghal@constructconnect.com	D	3/16/2021			
Precision Mechanical Group Inc 922 Main St Keokuk, IA 52632 217-357-1843 eric@precisionmechanicalgroupinc.com	D	3/16/2021			
RJI Sales 221 Chesterfield Industrial Blvd Chesterfield, MO 63005 636-532-1050 Fax: 636-532-5464 norman.rhea@rji-sales.com	D	3/17/2021			
Thermal Mechanics Inc. 715 Goddard Ave. Chesterfield, MO 63005 636-532-1110 Fax: 636-532-7318 MaryBeth.Mueller@tmi-stl.com	D	3/17/2021			
St. Louis Lighting Group 7414 Manchester Rd Maplewood, MO 63143 314-292-8971 Victor@stlouislightinggroup.com	D	3/17/2021			
Lighting Associates 3216 S. Brentwood Blvd Webster Groves, MO 63119 314-606-6412 pk@laiweb.net	D	3/17/2021			
P & D Electric 1401 County Road 425 Hannibal, MO 63401 573-406-1231 Fax 573-406-1261 dsbaker@pdelectricinc.com	D	3/17/2021			
ePlan 3338 Brown Station Rd. Columbia, MO 65202 573-814-1765 Fax: 573-814-1726 eplan@eplanbidding.com	D	3/18/2021			
Marold Electric Co. 129 S 10th Quincy, IL 62301 217-222-6267 Fax: 217-222-6289 maroldelectric@comcast.net	D & #4	3/23/2021			

RECORD OF PLANS AND SPECIFICATIONS

PAGE NO. Three

NAME OF PROJECT

Interior Renovations

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 5998

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Fishco Group 8721 Mackenzie St. Louis Mo 63123 314-865-5100 Fax: 314-865-0051 franka@fishcorep.com	D	3/24/2021			
*** Heimer Construction Co. 6811 Co Rd 344 Taylor, MO 63471 573-769-5515 Fax: 573-769-5516 darinh@heimerconstruction.com	D	3/16/2021			
*** Wright Construction Serv., Inc. 11 Lami Industrial Drive St. Peters, MO 63376 636 220-6850 Fax: 636 220-6855 thilboldt@wrightconstruct.com	D	3/29/2021			
Vinson & Sill, Inc PO Box 74 Lima, IL 62348 217 985-5100 Fax: 217 985-4900 vinsonsill@gmail.com	D	3/29/2021			

RECORD OF PLANS AND SPECIFICATIONS

PAGE NO. One

NAME OF PROJECT

Track and Field Renovations

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6003A DATE BIDS DUE Thursday, April 08, 2021 DEPOSIT \$50.00

TIME AND PLACE OF LETTING

3:00 PM Architechnics, Inc

510 Maine Street - Floor 10, Quincy, IL

*** Indicates Potential Bidding Contractor

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Architect	#1				
Owner	#2				
The Builders' Association 3632 West Truman Boulevard Jefferson City, MO 65109 573-893-3307 jeffcity@buildersassociation.com	D	3/12/2021			
*** Bleigh Construction PO Box 957 Hannibal, MO 63401 573-221-2247 Fax 573-221-4331 lvannatta@bleigh.com	D	3/12/2021			
Meyer Electric Co. Inc. 3513 N. Ten Mile Dr. Jefferson City, MO 65109 573 893-2335 Fax: 573 893-3686 office@meyerelectric.net	D	3/15/2021			
Tri-County Electrical Contractors 27469 Florida Rd. Center, MO 63436 573 565-3469 Fax: 574-565-0037 pbarnes@tricountyelectrical.com	D	3/15/2021			
Jansen Electric 4421 N. 60th Street Quincy, IL 62305 217-223-4016 Fax 217-223-8046 jansen@adams.net	#3	3/16/2021			
Byrne & Jones Sports 11745 Rear Lackland St. Louis, MO 63146 314-567-6145 Fax: 314-567-1828 btaulbee@byrneandjones.com	D	3/16/2021			
Mid-America Sports Construction 1621 E Summit St Lees Summit, MO. 64081 816.524.0010 816.524.0150 estimating@mid-america-golf.com	D	3/16/2021			
Musco Sports Lighting 100 1st Avenue W Oskaloosa, IA 52577 844-232-6157 800-374-6402 bid.center@musco.com	D	3/16/2021			

RECORD OF PLANS AND SPECIFICATIONS

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NAME OF PROJECT

Track and Field Renovations

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6003A

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Precision Mechanical Group Inc 922 Main St Keokuk, IA 52632 217-357-1843 eric@precisionmechanicalgroupinc.com	D	3/16/2021			
St. Louis Lighting Group 7414 Manchester Rd Maplewood, MO 63143 314-292-8971 Victor@stlouislightinggroup.com	D	3/17/2021			
Lighting Associates 3216 S. Brentwood Blvd Webster Groves, MO 63119 314-606-6412 pk@laiweb.net	D	3/17/2021			
Construct Connect 3825 Edwards Road, STE. 800 Cincinnati, OH 45209 800-364-2059 gwen.tanghal@constructconnect.com	D	3/17/2021			
P & D Electric 1401 County Road 425 Hannibal, MO 63401 573-406-1231 Fax 573-406-1261 dsbaker@pdelectricinc.com	D	3/17/2021			
Fisher Tracks, Inc 1192 Wall St Boone, IA 50036 515-432-3191 amiller@fishertracks.com	D	3/17/2021			
Barton Electric Inc. 247 IL-160 Trenton, IL 62293 618-654-6626 bartone@bartonelectricinc.com	D	3/17/2021			
All Purpose Erectors 1112 Starlifter Dr Lebanon, IL 62254 618-537-7777 rrobertson@allpurposeerectors.com	D	3/18/2021			
ePlan 3338 Brown Station Rd. Columbia, MO 65202 573-814-1765 Fax: 573-814-1726 eplan@eplanbidding.com	D	3/18/2021			
D&L Excavating, Inc. 1958 Hwy 104 Liberty, IL 62347 217 645-3701 Fax: 217 645-3692 dlexcavatinginc@yahoo.com	D	3/22/2021			

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NAME OF PROJECT

Track and Field Renovations

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6003A

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
*** Midwest Tennis & Track Co. 22 S Main St #2 Denison, IA 51442 712-263-3554 nichole@midwesttennisandtrack.com	D	3/23/2021			
Marold Electric Co. 129 S 10th Quincy, IL 62301 217-222-6267 Fax: 217-222-6289 maroldelectric@comcast.net	D & #4	3/23/2021			
Fishco Group 8721 Mackenzie St. Louis Mo 63123 314-865-5100 Fax: 314-865-0051 franka@fishcorep.com	D	3/24/2021			
*** George Lee Jr. Construction 600 Carter Hannibal, MO 63401 573-248-6968 georgewleejr@gmail.com	#5				

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NAME OF PROJECT

New Field Building for

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6003BDATE BIDS DUE Thursday, April 08, 2021DEPOSIT \$50.00

TIME AND PLACE OF LETTING

3:00 PM Architechnics, Inc

510 Maine Street - Floor 10, Quincy, IL

*** Indicates Potential Bidding Contractor

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Architect	#1				
Owner	#2				
*** Trotter General Contracting, Inc 900 Doran Drive Macomb, IL 61455 309-836-5040 Fax: 309-836-3756 troyleander@icloud.com	D	3/12/2021			
*** Schwada Builders, Inc. PO Box 487 Shelbina, MO 63468 573-588-4079 Fax: 573-588-7605 bschwada@yahoo.com	D	3/12/2021			
*** Freise Construction 17 Reckamp Road Old Monroe, MO 63369 636-661-5176 Bids@FreiseConstruction.com	D	3/12/2021			
Keck Heating & A/C 431 State Street Quincy, IL 62301 217-223-5325 Fax 217-223-8325 keckhvac@keckheatingandair.com	D	3/12/2021			
The Builders' Association 3632 West Truman Boulevard Jefferson City, MO 65109 573-893-3307 jeffcity@buildersassociation.com	D	3/12/2021			
*** Bleigh Construction PO Box 957 Hannibal, MO 63401 573-221-2247 Fax 573-221-4331 lvannatta@bleigh.com	D	3/12/2021			
Meyer Electric Co. Inc. 3513 N. Ten Mile Dr. Jefferson City, MO 65109 573 893-2335 Fax: 573 893-3686 office@meyerelectric.net	D	3/15/2021			
Tri-County Electrical Contractors 27469 Florida Rd. Center, MO 63436 573 565-3469 Fax: 574-565-0037 pbarnes@tricountyelectrical.com	D	3/15/2021			

ARCHITECHNICS

510 MAINE STREET, QUINCY, IL 217-222-0554 FAX 217-223-3361

RECORD OF PLANS AND SPECIFICATIONS

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NAME OF PROJECT

New Field Building for

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6003B

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Jansen Electric 4421 N. 60th Street Quincy, IL 62305 217-223-4016 Fax 217-223-8046 jansen@adams.net	#3	3/16/2021			
Byrne & Jones Sports 11745 Rear Lackland St. Louis, MO 63146 314-567-6145 Fax: 314-567-1828 btaulbee@byrneandjones.com	D	3/16/2021			
Precision Mechanical Group Inc 922 Main St Keokuk, IA 52632 217-357-1843 eric@precisionmechanicalgroupinc.com	D	3/16/2021			
RJI Sales 221 Chesterfield Industrial Blvd Chesterfield, MO 63005 636-532-1050 Fax: 636-532-5464 norman.rhea@rji-sales.com	D	3/17/2021			
Thermal Mechanics Inc. 715 Goddard Ave. Chesterfield, MO 63005 636-532-1110 Fax: 636-532-7318 MaryBeth.Mueller@tmi-stl.com	D	3/17/2021			
St. Louis Lighting Group 7414 Manchester Rd Maplewood, MO 63143 314-292-8971 Victor@stlouislightinggroup.com	D	3/17/2021			
Lighting Associates 3216 S. Brentwood Blvd Webster Groves, MO 63119 314-606-6412 pk@laiweb.net	D	3/17/2021			
P & D Electric 1401 County Road 425 Hannibal, MO 63401 573-406-1231 Fax 573-406-1261 dsbaker@pdelectricinc.com	D	3/17/2021			
Adams County Glass 2408 W. Schneidman Dr Quincy, IL 62305 217-221-9840 Fax: 217-221-9841 acginc04@gmail.com	D	3/18/2021			
ePlan 3338 Brown Station Rd. Columbia, MO 65202 573-814-1765 Fax: 573-814-1726 eplan@eplanbidding.com		3/18/2021			

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NAME OF PROJECT

New Field Building for

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6003B

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Marold Electric Co. 129 S 10th Quincy, IL 62301 217-222-6267 Fax: 217-222-6289 maroldelectric@comcast.net	D & #4	3/23/2021			
Fishco Group 8721 Mackenzie St. Louis Mo 63123 314-865-5100 Fax: 314-865-0051 franka@fishcorep.com	D	3/24/2021			
*** Heimer Construction Co. 6811 Co Rd 344 Taylor, MO 63471 573-769-5515 Fax: 573-769-5516 darinh@heimerconstruction.com	D	3/16/2021			
*** Wright Construction Serv., Inc. 11 Lami Industrial Drive St. Peters, MO 63376 636 220-6850 Fax: 636 220-6855 thilboldt@wrightconstruct.com	D	3/29/2021			
Vinson & Sill, Inc PO Box 74 Lima, IL 62348 217 985-5100 Fax: 217 985-4900 vinsonsill@gmail.com	D	3/29/2021			

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NAME OF PROJECT

Asbestos Abatement at Mark Twain Jr/Sr High School

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6004 DATE BIDS DUE Thursday, April 08, 2021 DEPOSIT \$50.00

TIME AND PLACE OF LETTING

3:00 PM Architechnics, Inc

510 Maine Street - Floor 10, Quincy, IL

*** Indicates Potential Bidding Contractor

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Architect	#1				
Owner	#2				
Midwest Service Group 560 Turner Blvd St Peters, MO 63376 636-926-7800 celliott@maa-stl.com	D	3/12/2021			
The Builders' Association 3632 West Truman Boulevard Jefferson City, MO 65109 573-893-3307 jeffcity@buildersassociation.com	D	3/12/2021			
*** Bleigh Construction PO Box 957 Hannibal, MO 63401 573-221-2247 Fax 573-221-4331 lvannatta@bleigh.com	D	3/12/2021			
AC Environmental 1742 State St Granite City, IL 62040 618-288-8960 dustin@acenviro.com	D	3/15/2021			
Construct Connect 3825 Edwards Road, STE. 800 Cincinnati, OH 45209 800-364-2059 gwen.tanghal@constructconnect.com	D	3/16/2021			

RECORD OF PLANS AND SPECIFICATIONS

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NAME OF PROJECT

Ag Building Addition

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6036

DATE BIDS DUE

Thursday, April 08, 2021

DEPOSIT

\$50.00

TIME AND PLACE OF LETTING

3:00 PM Architechnics, Inc510 Maine Street - Floor 10, Quincy, IL

*** Indicates Potential Bidding Contractor

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
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Owner	#2				
*** Trotter General Contracting, Inc 900 Doran Drive Macomb, IL 61455 309-836-5040 Fax: 309-836-3756 troyleander@icloud.com	D	3/12/2021			
*** Schwada Builders, Inc. PO Box 487 Shelbina, MO 63468 573-588-4079 Fax: 573-588-7605 bschwada@yahoo.com	D	3/12/2021			
*** Freise Construction 17 Reckamp Road Old Monroe, MO 63369 636-661-5176 Bids@FreiseConstruction.com	D	3/12/2021			
The Builders' Association 3632 West Truman Boulevard Jefferson City, MO 65109 573-893-3307 jeffcity@buildersassociation.com	D	3/12/2021			
*** Bleigh Construction PO Box 957 Hannibal, MO 63401 573-221-2247 Fax 573-221-4331 lvannatta@bleigh.com	D	3/12/2021			
Meyer Electric Co. Inc. 3513 N. Ten Mile Dr. Jefferson City, MO 65109 573 893-2335 Fax: 573 893-3686 office@meyerelectric.net	D	3/15/2021			
Tri-County Electrical Contractors 27469 Florida Rd. Center, MO 63436 573 565-3469 Fax: 574-565-0037 pbarnes@tricountyelectrical.com	D	3/15/2021			
Jansen Electric 4421 N. 60th Street Quincy, IL 62305 217-223-4016 Fax 217-223-8046 jansen@adams.net	#3	3/16/2021			

ARCHITECHNICS

510 MAINE STREET, QUINCY, IL 217-222-0554 FAX 217-223-3361

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Ag Building Addition

RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6036

CONTRACTOR NAME ADDRESS/PHONE/EMAIL	COPY NO.	DATE RECEIVED	DATE RETURNED	DEPOSIT RECEIVED	DEPOSIT RETURNED
Precision Mechanical Group Inc 922 Main St Keokuk, IA 52632 217-357-1843 eric@precisionmechanicalgroupinc.com	D	3/16/2021			
RJI Sales 221 Chesterfield Industrial Blvd Chesterfield, MO 63005 636-532-1050 Fax: 636-532-5464 norman.rhea@rji-sales.com	D	3/17/2021			
Thermal Mechanics Inc. 715 Goddard Ave. Chesterfield, MO 63005 636-532-1110 Fax: 636-532-7318 MaryBeth.Mueller@tmi-stl.com	D	3/17/2021			
St. Louis Lighting Group 7414 Manchester Rd Maplewood, MO 63143 314-292-8971 Victor@stlouislightinggroup.com	D	3/17/2021			
Lighting Associates 3216 S. Brentwood Blvd Webster Groves, MO 63119 314-606-6412 pk@laiweb.net	D	3/17/2021			
P & D Electric 1401 County Road 425 Hannibal, MO 63401 573-406-1231 Fax 573-406-1261 dsbaker@pdelectricinc.com	D	3/17/2021			
Adams County Glass 2408 W. Schneidman Dr Quincy, IL 62305 217-221-9840 Fax: 217-221-9841 acginc04@gmail.com	D	3/18/2021			
ePlan 3338 Brown Station Rd. Columbia, MO 65202 573-814-1765 Fax: 573-814-1726 eplan@eplanbidding.com	D	3/18/2021			
Construct Connect 3825 Edwards Road, STE. 800 Cincinnati, OH 45209 800-364-2059 gwen.tanghal@constructconnect.com	D	3/23/2021			
Marold Electric Co. 129 S 10th Quincy, IL 62301 217-222-6267 Fax: 217-222-6289 maroldelectric@comcast.net	D & #4	3/23/2021			

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RALLS COUNTY RII 2021 CAPITAL PROJECTS

PROJECT NO. 6036

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Fishco Group 8721 Mackenzie St. Louis Mo 63123 314-865-5100 Fax: 314-865-0051 franka@fishcorep.com	D	3/24/2021			
*** Heimer Construction Co. 6811 Co Rd 344 Taylor, MO 63471 573-769-5515 Fax: 573-769-5516 darinh@heimerconstruction.com	D	3/16/2021			
*** Wright Construction Serv., Inc. 11 Lami Industrial Drive St. Peters, MO 63376 636 220-6850 Fax: 636 220-6855 thilboldt@wrightconstruct.com	D	3/29/2021			
Vinson & Sill, Inc PO Box 74 Lima, IL 62348 217 985-5100 Fax: 217 985-4900 vinsonsill@gmail.com	D	3/29/2021			

**DOCUMENT 00 4322
UNIT PRICES FORM**

1.1 BID INFORMATION

- A. Bidder: _____.
- B. Project Name: Ralls County RII School District 2021 Capital Projects.
- C. Project Location: Center, Missouri 63459.
- D. Owner: Ralls County RII School District.
- E. Architect: Architechnics Inc.
- F. Architect Project Number: 6069 .

1.2 BID FORM SUPPLEMENT

- A. This form is required to be attached to the Bid Form.
- B. The undersigned Bidder proposes the amounts below be added to or deducted from the Contract Sum on performance and measurement of the individual items of Work and for adjustment of the quantity given in the Unit-Price Allowance for the actual measurement of individual items of the Work.
- C. Unit price categories are described in the Contract Documents and scheduled in Section 01 2200 "Unit Prices."

1.3 UNIT PRICES

- A. Unit-Price No. 1: Removal of unsatisfactory soil and replacement with satisfactory soil material.
 - 1. Project 6003A_____ dollars (\$_____) per unit.
 - 2. Project 6003B_____ dollars (\$_____) per unit.
 - 3. Project 6036_____ dollars (\$_____) per unit.

B. Unit-Price No. 2: Rock excavation and replacement with satisfactory soil material.

1. Project 6003A_____ dollars (\$_____) per unit.
2. Project 6003B_____ dollars (\$_____) per unit.
3. Project 6036_____ dollars (\$_____) per unit.

C. Unit-Price No. 3: Cutting and replacement of exterior concrete sidewalks.

1. Project 6003A_____ dollars (\$_____) per unit.
2. Project 6003B_____ dollars (\$_____) per unit.
3. Project 6036_____ dollars (\$_____) per unit.

D. Unit-Price No. 4: Gravel excavation and replacement with satisfactory soil material.

1. Project 6003B_____ dollars (\$_____) per unit.

E. Unit-Price No. 5: (2) 2" lifts of asphalt paving.

1. Project 6003A_____ dollars (\$_____) per unit.

1.4 SUBMISSION OF BID SUPPLEMENT

- A. Respectfully submitted this ____ day of _____, 2021 .
- B. Submitted By:_____(Insert name of bidding firm or corporation).
- C. Authorized Signature:_____(Handwritten signature).
- D. Signed By:_____(Type or print name).
- E. Title:_____(Owner/Partner/President/Vice President).

END OF DOCUMENT 00 4322

SECTION 10 2800
TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Public-use washroom accessories.
 - 2. Public-use shower room accessories.
 - 3. Childcare accessories.

1.2 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
 - 2. Include anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
 - 3. Include electrical characteristics.

PART 2 - PRODUCTS

2.1 PUBLIC-USE WASHROOM ACCESSORIES

- A. Source Limitations: Obtain public-use washroom accessories from single source from single manufacturer.
- B. Toilet Tissue (Roll) Dispenser:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
 - c. GAMCO Specialty Accessories; a division of Bobrick.
 - 2. Description: Single-roll dispenser .

3. Mounting: Surface mounted.
4. Operation: Noncontrol delivery with standard spindle .
5. Capacity: Designed for 4-1/2- or 5-inch- diameter tissue rolls.
6. Material and Finish: Stainless steel, No. 4 finish (satin) .

C. Paper Towel (Folded) Dispenser:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
 - c. GAMCO Specialty Accessories; a division of Bobrick.
2. Mounting: Surface mounted.
3. Minimum Capacity: 400 C-fold or 525 multifold towels .
4. Material and Finish: Stainless steel, No. 4 finish (satin) .
5. Lockset: Tumbler type.
6. Refill Indicator: Pierced slots at sides or front.

D. Liquid-Soap Dispenser:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
 - c. GAMCO Specialty Accessories; a division of Bobrick.
2. Description: Designed for dispensing antibacterial soap in lather form.
3. Mounting: Vertically oriented, surface mounted.
4. Lockset: Tumbler type.
5. Refill Indicator: Window type.

E. Grab Bar:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
 - c. GAMCO Specialty Accessories; a division of Bobrick.
2. Mounting: Flanges with concealed fasteners.
3. Material: Stainless steel, 0.05 inch thick.
 - a. Finish: Smooth, No. 4 finish (satin) on ends and slip-resistant texture in grip area.
4. Outside Diameter: 1-1/2 inches.
5. Configuration and Length: As indicated on Drawings .

F. Sanitary-Napkin Disposal Unit:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

- a. American Specialties, Inc.
 - b. Bobrick Washroom Equipment, Inc.
 - c. Bradley Corporation.
2. Mounting: Surface mounted.
3. Door or Cover: Self-closing, disposal-opening cover.
4. Receptacle: Removable.
5. Material and Finish: Stainless steel, No.4 finish (satin).

G. Mirror Unit:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
 - c. GAMCO Specialty Accessories; a division of Bobrick.
2. Frame: Stainless-steel channel.
 - a. Corners: Manufacturer's standard.

H. Coat Hook - at each toilet stall on back of door:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bradley Corporation.
 - b. GAMCO Specialty Accessories; a division of Bobrick.
2. Description: Double -prong unit.
3. Material and Finish: Stainless steel, No. 4 finish (satin) .

2.2 PUBLIC-USE SHOWER ROOM ACCESSORIES

A. Source Limitations: Obtain public-use shower room accessories from single source from single manufacturer.

B. Shower Curtain Rod:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
 - c. GAMCO Specialty Accessories; a division of Bobrick.
2. Description: 1-inch OD; fabricated from nominal 0.0375-inch- thick stainless steel .
3. Mounting Flanges: Stainless-steel flanges designed for exposed fasteners .
4. Finish: Stainless steel, No. 4 finish (satin) .

C. Shower Curtain - at each rod location:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
 - c. GAMCO Specialty Accessories; a division of Bobrick.
2. Size: Minimum 6 inches wider than opening by 72 inches high.
3. Material: Vinyl, minimum 0.006 inch thick, opaque, matte.
4. Color: White.
5. Grommets: Corrosion resistant at minimum 6 inches o.c. through top hem.
6. Shower Curtain Hooks: Chrome-plated or stainless-steel, spring wire curtain hooks with snap fasteners, sized to accommodate specified curtain rod. Provide one hook per curtain grommet.

D. Folding Shower Seat:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
 - c. GAMCO Specialty Accessories; a division of Bobrick.
2. Configuration: L-shaped seat, designed for wheelchair access .
3. Seat: Phenolic or polymeric composite of slat-type or one-piece construction in color as selected by Architect .
4. Mounting Mechanism: Stainless steel, No. 4 finish (satin).
5. Dimensions: 33" wide, 22 5/16" projection from wall.

E. Robe Hook - at each shower location:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
 - c. GAMCO Specialty Accessories; a division of Bobrick.
2. Description: Double -prong unit.
3. Material and Finish: Polished chrome-plated brass .

2.3 CHILDCARE ACCESSORIES

A. Diaper-Changing Station:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bradley Corporation.
 - b. GAMCO Specialty Accessories; a division of Bobrick.
 - c. Koala Kare Products; a Division of Bobrick.

2. Description: Horizontal or Vertical unit that opens by folding down from stored position and with child-protection strap.
 - a. Engineered to support minimum of 250-lb static load when opened.
3. Mounting: Surface mounted, with unit projecting not more than 4 inches from wall when closed. Semirecessed, with unit projecting not more than 1 inch from wall when closed.
4. Operation: By pneumatic shock-absorbing mechanism.
5. Material and Finish: HDPE in manufacturer's standard color .

2.4 UNDERLAVATORY GUARDS

- A. Underlavatory Guard at each lavatory where piping is exposed :
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Plumberex Specialty Products, Inc.
 - b. Truebro by IPS Corporation.
 2. Description: Insulating pipe covering for supply and drain piping assemblies that prevents direct contact with and burns from piping; allow service access without removing coverings.
 3. Material and Finish: Antimicrobial, molded plastic, white.

2.5 MATERIALS

- A. Stainless Steel: ASTM A 666, Type 304, 0.031-inch minimum nominal thickness unless otherwise indicated.
- B. Brass: ASTM B 19, flat products; ASTM B 16/B 16M, rods, shapes, forgings, and flat products with finished edges; or ASTM B 30, castings.
- C. Steel Sheet: ASTM A 1008/A 1008M, Designation CS (cold rolled, commercial steel), 0.036-inch minimum nominal thickness.
- D. Galvanized-Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip zinc coating.
- E. Galvanized-Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- F. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.
- G. Chrome Plating: ASTM B 456, Service Condition Number SC 2 (moderate service).
- H. Mirrors: ASTM C 1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.

2.6 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.

- B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
- B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F 446.

3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written instructions.

3.3 SCHEDULE OF ACCESSORIES

- A. Project 5998 – Interior Renovation
 - 1. Room 117
 - a. 2 shower curtain rods (2'-4" long, FV) and shower curtains (6'-0" long)
 - b. 1 shower curtain rod (4'-2" long, FV) and shower curtain (6'-0" long)
 - Grabs Bars – (1) 42" Horizontal, (1) 36" Horizontal
 - c. 1 hook at each shower
 - 2. Room 118
 - a. 2 Mirrors (24" x 36")
 - b. 2 Toilet Paper Dispensers
 - c. 1 Paper Towel Dispenser
 - d. 1 Soap Dispenser
 - e. 2 Sanitary Napkin Disposal Units
 - f. New Toilet Partitions, see 10 2113.19, w/ hooks
 - 3. Room 121
 - a. 2 Mirrors (24" x 36")
 - b. 2 Toilet Paper Dispensers
 - c. 1 Paper Towel Dispenser
 - d. 1 Soap Dispenser
 - e. New Toilet Partitions, see 10 2113.19, w/ hooks
 - f. New Urinal Screens, see 10 2113.19
 - 4. Room 227
 - a. 2 Mirrors (24" x 36")
 - b. 1 Paper Towel Dispenser
 - c. 1 Soap Dispenser
 - d. Toilet Partitions (10 2113.19) remain in place
 - 5. Room 230
 - a. 2 Mirrors (24" x 36")
 - b. 1 Paper Towel Dispenser

- c. 1 Soap Dispenser
 - d. Toilet Partitions (10 2113.19) remain in place
- B. Project 6003B – New Field Building
 - 1. Room 100
 - a. 2 Mirrors (24" x 36")
 - b. 3 Toilet Paper Dispensers
 - c. 1 Paper Towel Dispenser
 - d. 1 Soap Dispenser
 - e. 3 Sanitary Napkin Disposal Units
 - f. 1 Diaper Changing Station
 - g. Grabs Bars – (1) 42" Horizontal, (1) 36" Horizontal; (1) 18" Vertical
 - h. New Toilet Partitions, see 10 2113.19, w/ hooks
 - 2. Room 102
 - a. 2 Mirrors (24" x 36")
 - b. 1 Toilet Paper Dispenser
 - c. 1 Paper Towel Dispenser
 - d. 1 Soap Dispenser
 - e. 1 Diaper Changing Station
 - f. Grabs Bars – (1) 42" Horizontal, (1) 36" Horizontal; (1) 18" Vertical
 - g. New Toilet Partitions, see 10 2113.19, w/ hooks
 - h. New Urinal Screens, see 10 2113.19
 - 3. Room 109
 - a. 2 Mirrors (24" x 36")
 - b. 2 Toilet Paper Dispenser
 - c. 1 Paper Towel Dispenser
 - d. 1 Soap Dispenser
 - e. Grabs Bars – (1) 42" Horizontal, (1) 36" Horizontal; (1) 18" Vertical
 - f. 1 shower curtain rod (3'-0" long, FV) and shower curtain (6'-0" long)
 - g. 1 shower curtain rod (4'-0" long, FV) and shower curtain (6'-0" long)
 - h. 1 folding shower seat
 - i. 1 hook at each shower
 - j. New Toilet Partitions, see 10 2113.19, w/ hooks
 - k. New Urinal Screens, see 10 2113.19

END OF SECTION 10 2800

**DOCUMENT 26 5668
EXTERIOR ATHLETIC LIGHTING**

PART 1 – GENERAL

1.1 SUMMARY

- A. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.
- B. The purpose of these specifications is to define the lighting system performance and design standards for Ralls County School District Football using an LED Lighting source. The manufacturer / contractor shall supply lighting equipment to meet or exceed the standards set forth in these specifications.
- C. The sports lighting will be for the following venues:
 - 1. Football Field – 360' x 160'
- D. The primary goals of this sports lighting project are:
 - 1. **Guaranteed Light Levels:** Selection of appropriate light levels impact the safety of the players and the enjoyment of spectators. Therefore light levels are guaranteed to not drop below specified target values for a period of 25 years.
 - 2. **Environmental Light Control:** It is the primary goal of this project to minimize spill light to adjoining properties and glare to the players, spectators and neighbors.
 - 3. **Cost of Ownership:** In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate. All maintenance costs shall be eliminated for the duration of the warranty.
 - 4. **Control and Monitoring:** To allow for optimized use of labor resources and avoid unneeded operation of the facility, customer requires a remote on/off control system for the lighting system. Fields should be proactively monitored to detect luminaire outages over a 25-year life cycle. All communication and monitoring costs for 25-year period shall be included in the bid.

1.2 LIGHTING PERFORMANCE

- A. **Illumination Levels and Design Factors:** Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the chart below. Lighting calculations shall be developed and field measurements taken on the grid spacing with the minimum number of grid points specified below. Appropriate light loss factors shall be applied and submitted for the basis of design. Average illumination level shall be measured in accordance with the IESNA LM-5-04 (IESNA Guide for Photometric Measurements of Area and Sports Lighting Installations). Illumination levels shall not to drop below desired target values in accordance to IES RP-6-15, Page 2, Maintained Average Illuminance and shall be guaranteed for the full warranty period.

Area of Lighting	Average Target Illumination Levels	Maximum to Minimum Uniformity Ratio	Grid Points	Grid Spacing
Football Field	40 foot-candles	3:1	72	30' x 30'

- B. **Color:** The lighting system shall have a minimum color temperature of 5700K and a CRI of 75+.
- C. **Mounting Heights:** To ensure proper aiming angles for reduced glare and to provide better playability, minimum mounting heights shall be as described below. Higher mounting heights may be required based on photometric report and ability to ensure the top of the field angle is a minimum of 10 degrees below horizontal.

# of Poles	Pole Designation	Pole Height
4	F1-F4	70'

1.3 **ENVIRONMENTAL LIGHT CONTROL**

- A. Light Control Luminaires: All luminaires shall utilize spill light and glare control devices including, but not limited to, internal shields, louvers and external shields. No symmetrical beam patterns are accepted.
- B. Glare Control - **CAUTION:** Maximum candela per fixture with any NEMA type shall not exceed 1,000 candela at 15 degrees in the vertical plane above zero aiming point. Manufacturer must supply an ITL report for verification. If ITL report cannot be provided, bid will be automatically rejected. Reports shall be certified by a qualified Independent testing laboratory with a minimum of five years experience or by a manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products. A summary of the horizontal and vertical aiming angles for each luminaire shall be included with the photometric report.

1.4 **Cost of Ownership**

- A. Manufacturer shall submit a 25 year Cost of Ownership summary that includes energy consumption, anticipated maintenance costs, and control costs. All costs associated with faulty luminaire replacement - equipment rentals, removal and installation labor, and shipping - are to be included in the maintenance costs.

PART 2 – PRODUCT

2.2 **SPORTS LIGHTING SYSTEM CONSTRUCTION**

- A. Manufacturing Requirements: All components shall be designed and manufactured as a system. All luminaires, wire harnesses, drivers and other enclosures shall be factory assembled, aimed, wired and tested.
- B. Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed carbon steel shall be hot dip galvanized per ASTM A123. All exposed aluminum shall be powder coated with high performance polyester or anodized. All exterior reflective inserts shall be anodized, coated, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All exposed hardware and fasteners shall be stainless steel, passivated and coated with aluminum-based thermosetting epoxy resin for protection against corrosion and stress corrosion cracking. Structural fasteners may be carbon steel and galvanized meeting ASTM A153 and ISO/EN 1461 (for hot dipped galvanizing), or ASTM B695 (for mechanical galvanizing). All wiring shall be enclosed within the cross-arms, pole, or electrical components enclosure.
- C. System Description: Lighting system shall consist of the following:
 1. Galvanized steel poles and cross-arm assembly. Alternate: Concrete pole with a minimum of 8,000 psi and installed with concrete backfill will be an acceptable alternative provided building code, wind speed and foundation designs per specifications are adhered to.
 2. Non-approved pole technology:
 - a. Square static cast concrete poles will not be accepted.
 - b. Direct bury steel poles which utilize the extended portion of the steel shaft for their foundation will not be accepted due to potential for internal and external corrosive reaction to the soils and long term performance concerns.
 3. Lighting systems shall use concrete foundations. See Section 2.4 for details.
 - a. For a foundation using a pre-stressed concrete base embedded in concrete backfill the concrete shall be air-entrained and have a minimum compressive design strength at 28 days of 3,000 PSI. 3,000 PSI concrete specified for early pole erection, actual required

minimum allowable concrete strength is 1,000 PSI. All piers and concrete backfill must bear on and against firm undisturbed soil.

- b. For anchor bolt foundations or foundations using a pre-stressed concrete base in a suspended pier or re-inforced pier design pole erection may occur after 7 days. Or after a concrete sample from the same batch achieves a certain strength.
- 4. Manufacturer will supply all drivers and supporting electrical equipment
 - a. Remote drivers and supporting electrical equipment shall be mounted approximately 10 feet above grade in aluminum enclosures. The enclosures shall be touch-safe and include drivers and fusing with indicator lights on fuses to notify when a fuse is to be replaced for each luminaire. Disconnect per circuit for each pole structure will be located in the enclosure. Integral drivers are not allowed.
 - b. Manufacturer shall provide surge protection at the pole equal to or greater than 40 kA for each line to ground (Common Mode) as recommended by IEEE C62.41.2_2002.
- 5. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation.
- 6. All luminaires, visors, and cross-arm assemblies shall withstand 150 mph winds and maintain luminaire aiming alignment.
- 7. Control cabinet to provide remote on-off control and monitoring, of the lighting system. See Section 2.3 for further details
- 8. Manufacturer shall provide lightning grounding as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A.
 - a. Integrated grounding via concrete encased electrode grounding system.
 - b. If grounding is not integrated into the structure, the manufacturer shall supply grounding electrodes, copper down conductors, and exothermic weld kits. Electrodes and conductors shall be sized as required by NFPA 780. The grounding electrode shall be minimum size of 5/8 inch diameter and 8 feet long, with a minimum of 10 feet embedment. Grounding electrode shall be connected to the structure by a grounding electrode conductor with a minimum size of 2 AWG for poles with 75 feet mounting height or less, and 2/0 AWG for poles with more than 75 feet mounting height.
- D. Safety: All system components shall be UL listed for the appropriate application.

2.2 ELECTRICAL

- A. Electric Power Requirements for the Sports Lighting Equipment:
 - 1. Electric power 208 Volt, Single Phase
 - 2. Maximum total voltage drop: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage.
- B. Energy Consumption: The kW consumption for the field lighting system shall be 40.1kW.

2.3 CONTROL

- A. Instant On/Off Capabilities: System shall provide for instant on/off of luminaires.
- B. Lighting contactor cabinet(s) constructed of NEMA Type 4 aluminum, designed for easy installation with contactors, labeled to match field diagrams and electrical design. Manual off-on-auto selector switches shall be provided.
- C. Dimming: System shall provide for 3-stage dimming (high-medium-low). Dimming will be set via scheduling options (Website, app, phone, fax, email).
- D. Remote Lighting Control System: System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained staff shall

be available 24/7 to provide scheduling support and assist with reporting needs.

The owner may assign various security levels to schedulers by function and/or fields. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all fields to only having permission to execute "early off" commands by phone. Scheduling tool shall be capable of setting curfew limits.

Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.

- E. Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The controller shall determine switch position (manual or auto) and contactor status (open or closed).
- F. Management Tools: Manufacturer shall provide a web-based database and dashboard tool of actual field usage and provide reports by facility and user group. Dashboard shall also show current status of luminaire outages, control operation and service. Mobile application will be provided suitable for IOS, Android and Blackberry devices.

Hours of Usage: Manufacturer shall provide a means of tracking actual hours of usage for the field lighting system that is readily accessible to the owner.

- 1. Cumulative hours: shall be tracked to show the total hours used by the facility
- 2. Report hours saved by using early off and push buttons by users.

- G. Communication Costs: Manufacturer shall include communication costs for operating the control and monitoring system for a period of 25 years.
- H. Communication with luminaire drivers: Control system shall interface with drivers in electrical components enclosures by means of powerline communication.

2.4 STRUCTURAL PARAMETERS

- A. Wind Loads: Wind loads shall be based on the 2015 International Building Code. Wind loads to be calculated using ASCE 7-10, an ultimate design wind speed of 115mph and exposure category C.

PART 3 – EXECUTION

3.1 DELIVERY TIMING

- A. Delivery Timing Equipment On-Site: The equipment must be on-site 6-8 weeks from receipt of approved submittals and receipt of complete order information.

3.2 FIELD QUALITY CONTROL

- A. Illumination Measurements: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination measurements shall be taken and verified. The illumination measurements shall be conducted in accordance with IESNA LM-5-04.
- B. Field Light Level Accountability
 - 1. Light levels are guaranteed not to fall below the target maintained light levels for the entire warranty period of 25 years. These levels will be specifically stated as "guaranteed" on the illumination summary provided by the manufacturer.
 - 2. The contractor/manufacturer shall be responsible for conducting initial light level testing and an additional inspection of the system, in the presence of the owner, one year from the date of commissioning of the lighting.
 - 3. The contractor/manufacturer will be held responsible for any and all changes needed to bring

these fields back to compliance for light levels and uniformities. Contractor/Manufacturer will be held responsible for any damage to the fields during these repairs.

- C. Correcting Non-Conformance: If, in the opinion of the Owner or his appointed Representative, the actual performance levels including foot-candles and uniformity ratios are not in conformance with the requirements of the performance specifications and submitted information, the Manufacturer shall be required to make adjustments to meet specifications and satisfy Owner.

3.4 WARRANTY AND GUARANTEE

- A. 25-Year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 25 years from the date of shipment. Warranty shall guarantee specified light levels. Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term. Warranty does not cover weather conditions events such as lightning or hail damage, improper installation, vandalism or abuse, unauthorized repairs or alterations, or product made by other manufacturers.
- B. Maintenance: Manufacturer shall monitor the performance of the lighting system, including on/off status, hours of usage and luminaire outage for 25 years from the date of equipment shipment. Parts and labor shall be covered such that individual luminaire outages will be repaired when the usage of any field is materially impacted. Manufacturer is responsible for removal and replacement of failed luminaires, including all parts, labor, shipping, and equipment rental associated with maintenance. Owner agrees to check fuses in the event of a luminaire outage.

PART 4 – DESIGN APPROVAL

4.0 PRE-BID SUBMITTAL REQUIREMENTS (Non-Musco)

- A. Design Approval: The owner / engineer will review pre-bid submittals per section 4.0.B from all the manufacturers to ensure compliance to the specification 10 days prior to bid. If the design meets the design requirements of the specifications, a letter and/or addendum will be issued to the manufacturer indicating approval for the specific design submitted.
- B. Approved Product: Musco's Light-Structure System™ with TLC for LED™ is the approved product. All substitutions must provide a complete submittal package for approval as outlined in Submittal Information at the end of this section at least 5 days prior to bid. Special manufacturing to meet the standards of this specification may be required. An addendum will be issued prior to bid listing any other approved lighting manufacturers and designs.
- C. All listed manufacturers not pre-approved shall submit the information at the end of this section at least 5 days prior to bid. An addendum will be issued prior to bid; listing approved lighting manufacturers and the design method to be used.
- D. Bidders are required to bid only products that have been approved by this specification or addendum by the owner or owner's representative. Bids received that do not utilize an approved system/design, will be rejected.

REQUIRED SUBMITTAL INFORMATION FOR ALL MANUFACTURERS (NOT PRE-APPROVED) 5 DAYS PRIOR TO BID

All items listed below are mandatory, shall comply with the specification and be submitted according to pre-bid submittal requirements. Complete the Yes/No column to indicate compliance (Y) or noncompliance (N) for each item. **Submit checklist below with submittal.**

Yes/ No	Tab	Item	Description
	A	Letter/ Checklist	Listing of all information being submitted must be included on the table of contents. List the name of the manufacturer's local representative and his/her phone number. Signed submittal checklist to be included.
	B	Equipment Layout	Drawing(s) showing field layouts with pole locations
	C	On Field Lighting Design	Lighting design drawing(s) showing: a. Field Name, date, file number, prepared by b. Outline of field(s) being lighted, as well as pole locations referenced to the center of the field (x & y), Illuminance levels at grid spacing specified c. Pole height, number of fixtures per pole, horizontal and vertical aiming angles, as well as luminaire information including wattage, lumens and optics d. Height of light test meter above field surface. e. Summary table showing the number and spacing of grid points; average, minimum and maximum illuminance levels in foot candles (fc); uniformity including maximum to minimum ratio, coefficient of variance (CV), coefficient of utilization (CU) uniformity gradient; number of luminaires, total kilowatts, average tilt factor; light loss factor.
	D	Photometric Report	Provide first page of photometric report for all luminaire types being proposed showing candela tabulations as defined by IESNA Publication LM-35-02. Photometric data shall be certified by laboratory with current National Voluntary Laboratory Accreditation Program or an independent testing facility with over 5 years experience.
	E	Performance Guarantee	Provide performance guarantee including a written commitment to undertake all corrections required to meet the performance requirements noted in these specifications at no expense to the owner. Light levels must be guaranteed to not fall below target levels for warranty period.
	F	Control & Monitoring System	Manufacturer of the control and monitoring system shall provide written definition and schematics for automated control system. They will also provide ten (10) references of customers currently using proposed system in the state of Missouri.
	G	Electrical Distribution Plans	Manufacturer bidding an alternate product must include a revised electrical distribution plan including changes to service entrance, panels and wire sizing, signed by a licensed Engineer in the state of Missouri.
	H	Warranty	Provide written warranty information including all terms and conditions. Provide ten (10) references of customers currently under specified warranty in the states of Missouri, Iowa, Illinois, Kansas, Arkansas, Kentucky, Nebraska, Oklahoma, or Tennessee.
	I	Project References	Manufacturer to provide a list of ten (10) projects where the technology and specific fixture proposed for this project has been installed in the state of Missouri. Reference list will include project name, project city, installation date, and if requested, contact name and contact phone number.
	J	Product Information	Complete bill of material and current brochures/cut sheets for all product being provided.
	K	Delivery	Manufacturer shall supply an expected delivery timeframe from receipt of approved submittals and complete order information.
	L	Non- Compliance	Manufacturer shall list all items that do not comply with the specifications. If in full compliance, tab may be omitted.
	M	Cost of Ownership	Document cost of ownership as defined in the specification. Identify energy costs for operating the luminaires. Maintenance cost for the system must be included. All costs should be based on 25 Years
	N	Environmental Light Control Design	Environmental glare impact scans must be submitted showing the maximum candela per fixture with any NEMA type shall not exceed 1,000 candela at 15 degrees In the vertical plane above zero aiming point candela or less is achieved.

The information supplied herein shall be used for the purpose of complying with the specifications for Ralls County School District Football. By signing below I agree that all requirements of the specifications have been met and that the manufacturer will be responsible for any future costs incurred to bring their equipment into compliance for all items not meeting specifications and not listed in the Non-Compliance section.

Manufacturer: _____ **Signature:** _____

Contact Name: _____ **Date:** ____/____/____

Contractor: _____ **Signature:** _____

SECTION 32 3113 - CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Chain-link fences.
 - 2. Swing gates.
- B. Related Requirements:
 - 1. Section 03 3000 "Cast-in-Place Concrete" for cast-in-place concrete post footings.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for the following:
 - a. Fence and gate posts, rails, and fittings.
 - b. Chain-link fabric, reinforcements, and attachments.
 - c. Gates and hardware.
- B. Shop Drawings: For each type of fence and gate assembly.
 - 1. Include plans, elevations, sections, details, and attachments to other work.
 - 2. Include accessories, hardware, gate operation, and operational clearances.

1.4 FIELD CONDITIONS

- A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

1.5 WARRANTY

- A. Special Warranty: Installer agrees to repair or replace components of chain-link fences and gates that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Failure to comply with performance requirements.

- b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- 2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CHAIN-LINK FENCE FABRIC

- A. General: Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist according to "CLFMI Product Manual" and requirements indicated below:
 - 1. Fabric Height: 4'-0" .
 - 2. Aluminum coated fabric: ASTM A 491, Type 1.

2.2 FENCE FRAMEWORK

- A. Posts and Rails : ASTM F 1043 for framework, including rails, braces, and line; terminal; and corner posts. Provide members with minimum dimensions and wall thickness according to ASTM F 1043 or ASTM F 1083 based on the following:
 - 1. Fence Height: 4'-0" .
 - 2. Horizontal Framework Members: Intermediate top rails according to ASTM F 1043.
 - 3. Brace Rails: ASTM F 1043.

2.3 SWING GATES

- A. General: ASTM F 900 for gate posts and single and double swing gate types.
 - 1. Gate Leaf Width: refer to drawings.
 - 2. Framework Member Sizes and Strength: Based on gate fabric height of 72 inches or less .
- B. Pipe and Tubing:
 - 1. Zinc-Coated Steel: ASTM F 1043 and ASTM F 1083; protective coating and finish to match fence framework .
 - 2. Gate Posts: Round tubular steel .
 - 3. Gate Frames and Bracing: Round tubular steel .
- C. Frame Corner Construction: Welded or assembled with corner fittings.
- D. Extended Gate Posts and Frame Members: Fabricate gate posts and frame end members to extend 12 inches above top of chain-link fabric at both ends of gate frame to attach barbed wire assemblies.
- E. Hardware:
 - 1. Hinges: 360-degree inward and outward swing.
 - 2. Latch: Permitting operation from both sides of gate with provision for padlocking accessible from both sides of gate.

2.4 FITTINGS

- A. Provide fittings according to ASTM F 626.
- B. Tie Wires, Clips, and Fasteners: According to ASTM F 626.
 - 1. Standard Round Wire Ties: For attaching chain-link fabric to posts, rails, and frames, according to the following:
 - a. Hot-Dip Galvanized Steel: 0.106-inch- 0.148-inch- diameter wire ; galvanized coating thickness matching coating thickness of chain-link fence fabric.
 - b. Aluminum: ASTM B 211; Alloy 1350-H19; 0.148-inch- diameter, mill-finished wire.
- C. Finish:
 - 1. Metallic Coating for Pressed Steel or Cast Iron: Not less than 1.2 oz./sq. ft. of zinc.
 - a. Polymer coating over metallic coating.
 - 2. Aluminum: Mill finish.

2.5 TOP CAP

- A. Plastic safety top cap, mechanically fastened, eq. to SafetyTopCap by Pexco, 1-770-343-4590.
- B. Finish:
 - 1. Color to be selected from manufacturer's standard finishes.

2.6 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M. Provide grout, recommended in writing by manufacturer, for exterior applications.
- B. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating, and that is recommended in writing by manufacturer for exterior applications.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, and other conditions affecting performance of the Work.
 - 1. Do not begin installation before final grading is completed unless otherwise permitted by Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3 CHAIN-LINK FENCE INSTALLATION

- A. Install chain-link fencing according to ASTM F 567 and more stringent requirements specified.
- B. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- C. Post Setting: Set posts in concrete or at indicated spacing into firm, undisturbed soil.
 - 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 - 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - a. Concealed Concrete: Place top of concrete 2 inches below grade to allow covering with surface material.
- D. Terminal Posts: Install terminal end, corner, and gate posts according to ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more . For runs exceeding 500 feet, space pull posts an equal distance between corner or end posts.
- E. Line Posts: Space line posts uniformly at 96 inches o.c.
- F. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fence posts. Diagonally brace terminal posts to adjacent line posts with truss rods and turnbuckles. Install braces at end and gate posts and at both sides of corner and pull posts.
 - 1. Locate horizontal braces at midheight of fabric 72 inches or higher, on fences with top rail, and at two-third fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.
- G. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fence posts. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.
- H. Intermediate and Bottom Rails: Secure to posts with fittings.
- I. Chain-Link Fabric: Apply fabric to outside of enclosing framework. Leave 1-inch bottom clearance between finish grade or surface and bottom selvage unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.
- J. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts, with tension bands spaced not more than 15 inches o.c.
- K. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at one end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other

end to chain-link fabric according to ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.

1. Maximum Spacing: Tie fabric to line posts at 12 inches o.c. and to braces at 24 inches o.c.
- L. Fasteners: Install nuts for tension bands and carriage bolts on the side of fence opposite the fabric side.

3.4 GATE INSTALLATION

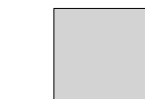
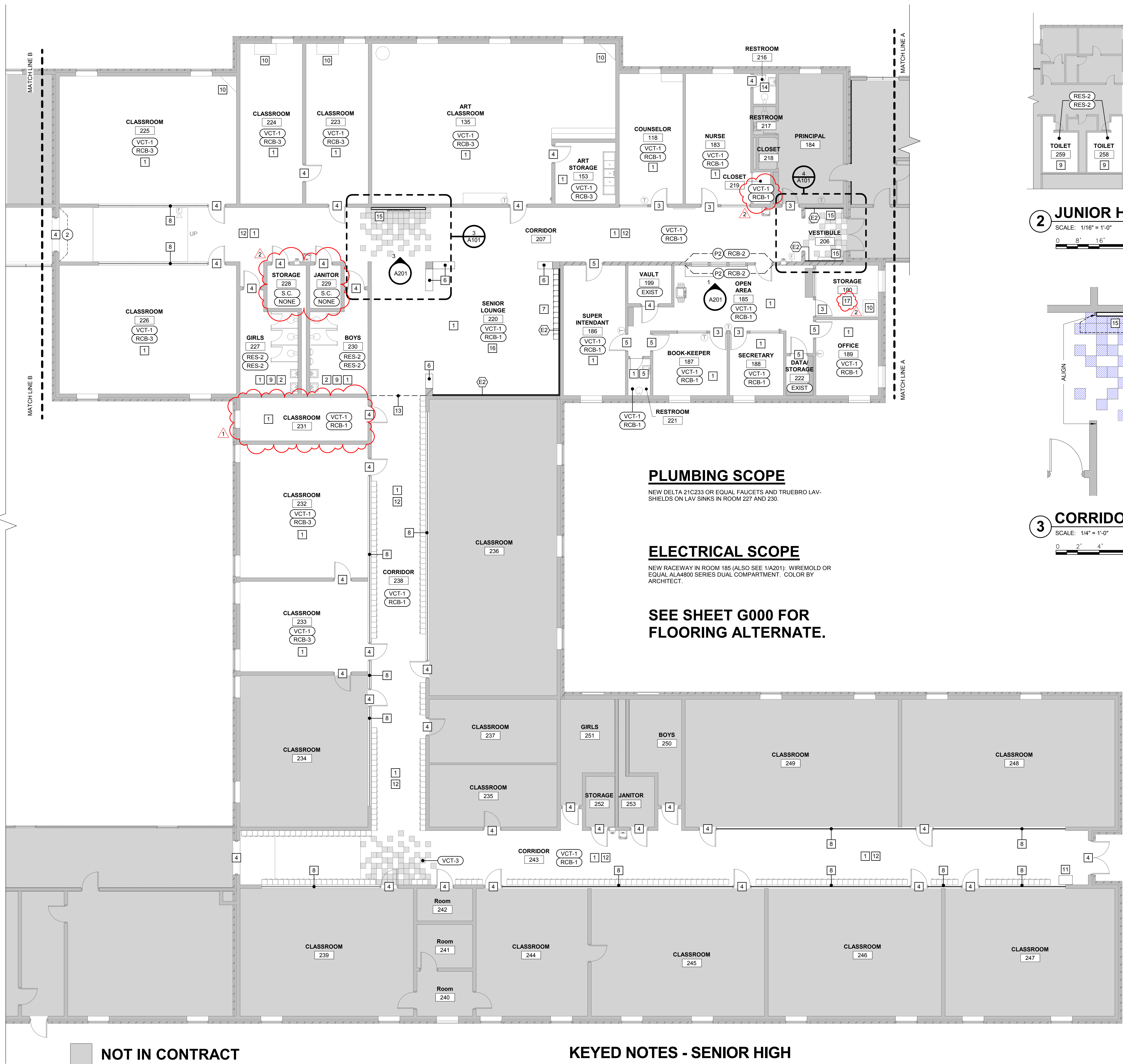
- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation.

3.5 ADJUSTING

- A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware and other moving parts.

END OF SECTION 32 3113

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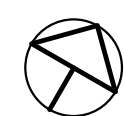


NOT IN CONTRACT

1 SENIOR HIGH - FINISH PLAN

SCALE: 1/8" = 1'-0"

0 4' 8' 16'



KEYED NOTES - SENIOR HIGH

- ALL WALLS TO BE PAINTED (P1) UNLESS NOTED OTHERWISE WITH ACCENT PAINT. GLAZED CMU/BRICK WALLS TO BE PAINTED (P1). SEE SPEC FOR PREP INFORMATION. ALL EXPOSED ELECTRICAL, MECHANICAL, PLUMBING ITEMS TO BE PAINTED TO MATCH THE WALL. WALLS TO BE PATCHED AND REPAIRED PRIOR TO NEW PAINT.
- NEW MIRRORS, PAPER TOWEL DISPENSER, SOAP DISPENSER, AND FAUCETS. SEE SPEC AND DRAWINGS FOR ADDITIONAL INFORMATION.
- EXISTING WOOD DOOR AND FRAME TO BE CLEANED, REPAIRED, AND RESTAINED.
- EXISTING PAINTED DOOR AND FRAME TO RECEIVE NEW PAINT (P4).
- EXISTING WOOD DOOR FRAME TO RECEIVE NEW PAINT (P1). WOOD DOOR TO REMAIN AS IS. CLEAN.
- PLASTIC LAMINATE (PL-1) COUNTERTOP WITH MATCHING PVC EDGE BAND, SEE SPEC. ALIGN WITH EDGES OF BRICK HALF WALL BELOW.
- NEW 12" WIDE, 2-TIER METAL LOCKERS, SEE SPEC.
- INSTALL OPAQUE FILM ON ALL CLERESTORY WINDOWS. SEE CEILING SECTIONS ON SHEET A201.
- GRIND EXISTING RESINOUS FLOORING DOWN TO FLAKE LAYER. INSTALL NEW RESINOUS FLOORING FLAKE LAYER WITH CLEAR URETHANE COATING ON TOP. SEE INTERIOR FINISH SPECIFICATIONS ON THIS SHEET. COORDINATE WITH STONHARD.
- MECHANICAL EQUIPMENT TO REMAIN, PAINT ALL VISIBLE AREAS.
- ELECTRICAL EQUIPMENT TO REMAIN, PAINT ALL VISIBLE AREAS.
- GYP. CEILING, SOFFIT, AND BULKHEAD LOCATED IN CORRIDOR TO BE PAINTED (P4) ON ALL VISIBLE SIDES. SEE REFLECTED CEILING PLAN.
- EXPANSION JOINT TO BE MAINTAINED. REPLACE FLOOR PLATE WITH BALCO EXP-TILE OR SIMILAR. REPLACE WALL PLATES WITH BALCO 6TW SURFACE MOUNT OR SIMILAR.
- EXISTING FLOORING, CEILING, LIGHTING, AND PLUMBING FIXTURES TO REMAIN. WALLS TO RECEIVE NEW PAINT (P1).
- ALL EXISTING WALL MOUNTED ITEMS TO BE RE-MOUNTED TO NEW PARTITION. SEE ELEVATION FOR DETAILS.
- ACCENT VCT IN SENIOR LOUNGE AREA TBD, PENDING FINAL DESIGN OF THE LOUNGE.
- CONCRETE TO REMAIN AS IS POST FLOORING ABATEMENT. NO NEW FINISH.

PLUMBING SCOPE

NEW DELTA 21C233 OR EQUAL FAUCETS AND TRUEBRO LAV-SHIELDS ON LAV SINKS IN ROOM 227 AND 230.

ELECTRICAL SCOPE

NEW RACEWAY IN ROOM 185 (ALSO SEE 1/A201). WIREMOLD OR EQUAL ALA4800 SERIES DUAL COMPARTMENT. COLOR BY ARCHITECT.

SEE SHEET G000 FOR FLOORING ALTERNATE.

2 JUNIOR HIGH - FINISH PLAN

SCALE: 1/16" = 1'-0"

0 8' 16' 32'

3 CORRIDOR 207 FLOORING

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

0 2' 4' 8'

4 VESTIBULE 206 FLOORING

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

0 2' 4' 8'

INTERIOR FINISH SPECIFICATIONS

ACOUSTICAL CEILING TILE

ACT-1 (MAIN)
MFG: ARMSTRONG
STYLE: FINE FISSURED
STYLE #: 1732
EDGE: 15/16" ANGLED REGULAR
SIZE: 24" X 24"
COLOR: WHITE
GRID: PRELUDE XL, 15/16", WHITE

ACT-2 (SHOWERS)
MFG: ARMSTRONG
STYLE: CERAMAGAURD
STYLE #: 607
EDGE: 15/16" SQUARE
SIZE: 24" X 24"
COLOR: WHITE
GRID: PRELUDE PLUS XL, ALUMINUM, 15/16", WHITE

PAINT
P1 (MAIN)
MFG: SHERWIN WILLIAMS
COLOR: REPOSE GRAY
NO: SW 7015

P2 (BLUE)
MFG: SHERWIN WILLIAMS
COLOR: RALLS COUNTY
COLOR: MASTERPIECE
NOTE: CUSTOM BLUE

P3 (CEILING)
MFG: SHERWIN WILLIAMS
COLOR: GREEK VILLA
NO: SW 7551

P4 (DOORS + MISC)
MFG: SHERWIN WILLIAMS
COLOR: DORIAN GRAY
NO: SW 7017

PL-1 (RECEPTION)
MFG: WILSONART
STYLE: VAPOR STRANDZ
STYLE #: 4939K-18

PL-2 (RECEPTION)
MFG: WILSONART
STYLE: CLASSIC LINEN
STYLE #: 4945-38

PL-3 (LOCKER RM COUNTERS)
MFG: WILSONART
STYLE: COSMIC STRANDZ
STYLE #: 4941K-18

RESINOUS FLOORING
RES-1 (NEW RESINOUS)
MFG: STONHARD
STYLE: STONTEC ERF
COLOR: TBD
BASE: TYPE AS SHOWN
ON PLANS

RES-2 (RECOAT EXISTING)
MFG: STONHARD
STYLE: TECTOP LF
COLOR: TBD
BASE: TYPE AS SHOWN
ON PLANS

RES-2 BASE INTEGRAL MATCH EXISTING HEIGHT APPROX. 5'-6" HIGH
REP: ROB LENTZ
574.228.4388

RUBBER COVE BASE
RCB-1
MFG: TARKETT
COLOR: 24 GREY HAZE
SIZE: 6" COVE BASE
REP: ADAM GLASER
314.405.0147

RCB-2
MFG: TARKETT
COLOR: 70 BLUEST
SIZE: 6" COVE BASE
REP: ADAM GLASER
314.405.0147

RCB-3
MFG: TARKETT
COLOR: 24 GREY HAZE
SIZE: 4" COVE BASE
REP: ADAM GLASER
314.405.0147

VINYL COMPOSITION TILE
VCT-1 (MAIN)
MFG: ARMSTRONG
STYLE: STANDARD EXCELON
COLOR: 59234 SILK
SIZE: 12"x12"
INSTALL: STRAIGHT GRID, QUARTER TURN

VCT-2 (LIGHT BLUE)
MFG: ARMSTRONG
STYLE: STANDARD EXCELON
COLOR: 51932 LUNAR BLUE
SIZE: 12"x12"
INSTALL: STRAIGHT GRID, QUARTER TURN

VCT-3 (BRIGHT BLUE)
MFG: ARMSTRONG
STYLE: STANDARD EXCELON
COLOR: 51820 MARINA BLUE
SIZE: 12"x12"
INSTALL: STRAIGHT GRID, QUARTER TURN

FINISH PLAN LEGEND

- FLOOR MATERIAL
- WALL BASE
- FLOORING INSTALLATION DIRECTION
- ACCENT WALL SYSTEM/ FINISH
- CEILING SPECIFICATION (SEE RCP FOR TAGS) ALL ACOUSTICAL CEILINGS TO BE ACT-1 U.N.O.

ABBREVIATIONS

- ACT ACOUSTIC CEILING TILE
- CH CABINET HARDWARE
- LVT LUXURY VINYL TILE
- MFG MANUFACTURER
- P PAINT
- PL PLASTIC LAMINATE
- RCB RUBBER COVE BASE
- SC SEALED CONCRETE
- VCT VINYL COMPOSITION TILE

FLOORING TRANSITION DETAILS

NOTE: FLOOR TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOOR LEAF, UNLESS OTHERWISE NOTED.

VCT TO SEALED CONCRETE

JOHNSONITE SLT-24-T

VCT S.C.

VCT S.C.

VCT TO RESINOUS

SCHLUTER SCHIENE

SATIN ANODIZED ALUMINUM

VCT RESINOUS

BUILD UP RESINOUS

FLOORING TO

TRANSITION TO VCT

BIDDING PHASE

NOT FOR CONSTRUCTION

ISSUE DATE: 03/05/2021

REVISIONS

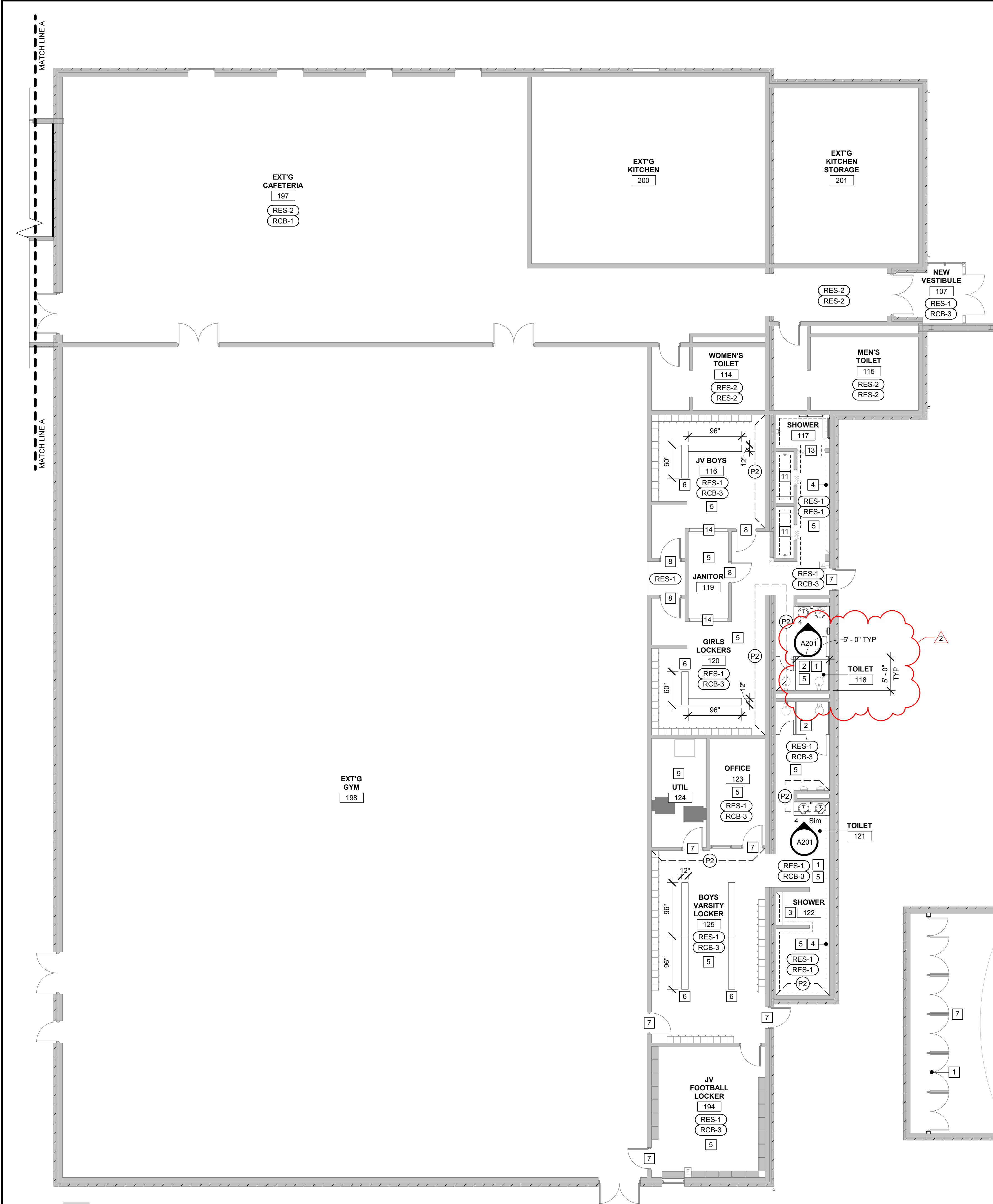
NO.	Date	Description
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2	3/11/21	ADD 02

PROJECT NUMBER: 5998

SENIOR HIGH FLOOR PLAN

DWG. NO.

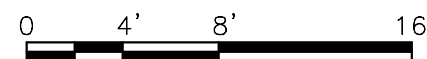
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NOT IN CONTRACT

1 BASKETBALL LOCKER ROOM - FINISH PLAN

SCALE: 1/8" = 1'-0"



KEYED NOTES - BASKETBALL

- NEW COUNTERTOP, SEE ELEVATION. NEW SINK, SEE PLUMBING DRAWINGS. NEW TOILET ACCESSORIES, SEE ELEVATION AND SPECS.
- NEW TOILET PARTITIONS, SEE SPEC.
- EXISTING SHOWER SEAT TO BE PAINTED (P4).
- INTEGRAL RESINOUS BASE ON WALLS INDICATED WITH DASHED LINE. SEE BASE DETAIL, THIS SHEET.
- ALL WALLS TO BE PAINTED (P1) UNLESS NOTED OTHERWISE WITH ACCENT PAINT. ALL EXPOSED ELECTRICAL, MECHANICAL, PLUMBING ITEMS TO BE PAINTED TO MATCH THE WALL. WALLS TO BE PATCHED AND REPAIRED PRIOR TO NEW PAINT.
- NEW BENCHES, SEE SPEC.
- EXISTING PAINTED DOOR AND FRAME TO BE REPAINTED (P4).
- WOOD DOOR TO REMAIN AS IS, FRAME TO BE REPAINTED (P1).
- INTERIOR OF ROOM TO REMAIN AS IS.
- NEW SHOWER CURTAIN, SEE SPEC. EXISTING SHOWER SEAT TO BE PAINTED (P4).
- NEW SHOWER CURTAIN AND GRAB BARS, SEE SPEC. EXISTING SHOWER SEAT TO BE PAINTED (P4).
- WINDOW FRAME TO BE PAINTED (P1) ON BOTH SIDES.

PLUMBING SCOPE

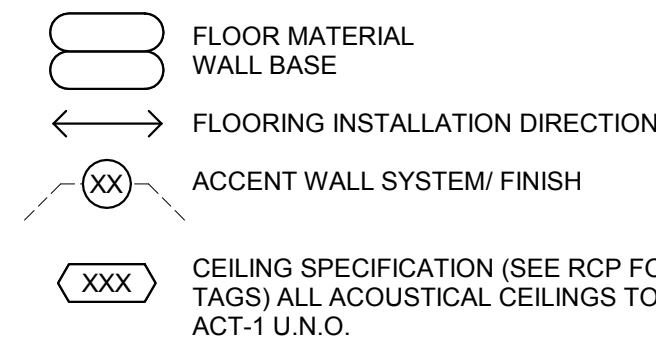
NEW LAVS KOHLER OR EQUAL K2196 DROP IN LAVS WITH DELTA
OR EQUAL 21C23 FAUCET IN ROOMS 118 AND 121:

SEE SHEET G000 FOR
FLOORING ALTERNATE.

INTERIOR FINISH SPECIFICATIONS

ACOUSTICAL CEILING TILE ACT-1 (MAIN) MFG: ARMSTRONG STYLE: FINE FISSURED STYLE #: 1732 EDGE: 15/16" ANGLED TEGULAR SIZE: 24" X 24" COLOR: WHITE GRID: PRELUDE XL, 15/16", WHITE ACT-2 (SHOWERS) MFG: ARMSTRONG STYLE: CERAMAGAARD STYLE #: 607 EDGE: 15/16" SQUARE SIZE: 24" X 24" COLOR: WHITE GRID: PRELUDE PLUS XL, ALUMINUM, 15/16", WHITE	PLASTIC LAMINATE PL-1 (RECEPTION) MFG: WILSONART STYLE: VAPOR STRANDZ STYLE #: 4939K-18 PL-2 (RECEPTION) MFG: WILSONART STYLE: CLASSIC LINEN STYLE #: 4943-38 PL-3 (LOCKER RM COUNTERS) MFG: WILSONART STYLE: COSMIC STRANDZ STYLE #: 4941K-18 RESINOUS FLOORING RES-1 (NEW RESINOUS) MFG: STONHARD STYLE: STONTEC ERF COLOR: TBD BASE: TYPE AS SHOWN ON PLANS RES-1 BASE: 4" HIGH INTEGRAL REP: ROB LENTZ 574.228.4388 RES-2 (RECOAT EXISTING) MFG: STONHARD STYLE: TECTOR UP COLOR: TBD BASE: TYPE AS SHOWN ON PLANS RES-2 BASE: INTEGRAL, MATCH EXISTING HEIGHT APPROX. 5'-6" HIGH REP: ROB LENTZ 574.228.4388 RUBBER COVE BASE RCB-1 MFG: TARKETT COLOR: 24 GREY HAZE SIZE: 6" COVE BASE REP: ADAM GLASER 314.405.0147	RCB-2 MFG: TARKETT COLOR: 70 BLUEST SIZE: 6" COVE BASE REP: ADAM GLASER 314.405.0147 RCB-3 MFG: TARKETT COLOR: 24 GREY HAZE SIZE: 4" COVE BASE REP: ADAM GLASER 314.405.0147 VINYL COMPOSITION TILE VCT-1 (MAIN) MFG: ARMSTRONG STYLE: STANDARD EXCELOX COLOR: 59234 SILK SIZE: 12"X12" INSTALL: STRAIGHT GRID, QUARTER TURN REP: NANCY WASER 636.448.9409 VCT-2 (LIGHT BLUE) MFG: ARMSTRONG STYLE: STANDARD EXCELOX COLOR: 51932 LUNAR BLUE SIZE: 12"X12" INSTALL: STRAIGHT GRID, QUARTER TURN REP: NANCY WASER 636.448.9409 VCT-3 (BRIGHT BLUE) MFG: ARMSTRONG STYLE: STANDARD EXCELOX COLOR: 51620 MARINA BLUE SIZE: 12"X12" INSTALL: STRAIGHT GRID, QUARTER TURN REP: NANCY WASER 636.448.9409
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FINISH PLAN LEGEND

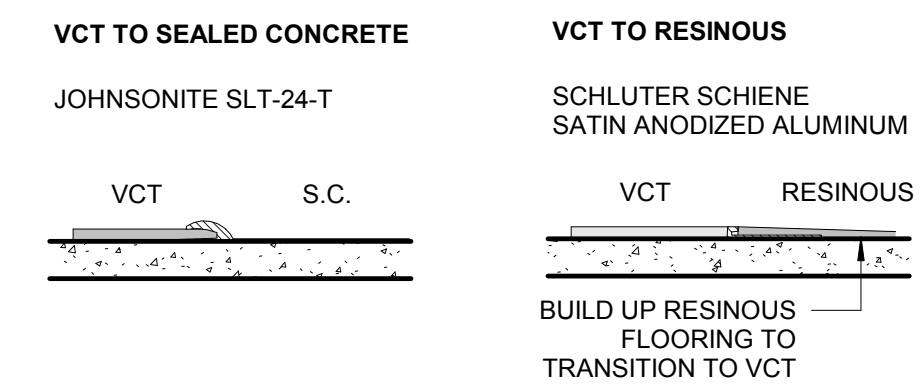


ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
CH	CABINET HARDWARE
LVT	LUXURY VINYL TILE
MFG	MANUFACTURER
P	PAINT
PL	PLASTIC LAMINATE
RCB	RUBBER COVE BASE
SC	SEALED CONCRETE
VCT	VINYL COMPOSITION TILE

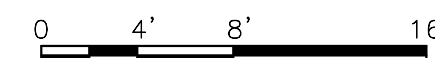
FLOORING TRANSITION DETAILS

NOTE: FLOOR TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOOR LEAF, UNLESS OTHERWISE NOTED.



2 MUSIC AND FOOTBALL LOCKERS - FINISH PLAN

SCALE: 1/8" = 1'-0"



KEYED NOTES - MUSIC AND FOOTBALL

- WOOD PANELING ABOVE TO REMAIN AS IS.
- ALL WALLS TO BE PAINTED (P1) UNLESS NOTED OTHERWISE WITH ACCENT PAINT. ALL EXPOSED ELECTRICAL, MECHANICAL, AND PLUMBING ITEMS TO BE PAINTED TO MATCH THE WALL. EXISTING PAINTED DOOR AND FRAME TO RECEIVE NEW PAINT (P2). EXISTING GLAZED CMU BASE TO REMAIN, CLEAN THROUGHOUT. WALLS TO BE PATCHED AND REPAIRED PRIOR TO NEW PAINT.
- NEW PLUMBING FIXTURES, SEE PLUMBING DRAWINGS. NEW TOILET ROOM ACCESSORIES, SEE SPEC.
- EXISTING SHOWER UNIT TO REMAIN AS IS.
- RESINOUS SYSTEM TO BE APPLIED ON FLOOR, ON ALL SIDES OF CONCRETE THRESHOLD, IN TRENCH DRAINS, AND ON VERTICAL CONCRETE PORTION OF THE WALL.
- NEW 24" WIDE BY 24" DEEP ATHLETIC LOCKERS AND BENCHES, SEE SPEC.
- EXISTING WOOD DOORS TO REMAIN. SAND, PATCH, AND STAIN.
- SAND, PATCH, AND REPAINT WOOD DOOR, WOOD FRAME, AND WOOD TRIM AROUND DOORS. PAINT COLOR TO BE (P2).
- EXISTING CONCRETE RISERS TO REMAIN AS IS.
- INTERIOR OF ROOM TO REMAIN AS IS, NO NEW FINISHES.

PLUMBING SCOPE

DEMO EXISTING CW AND HW PIPING AND FIXTURES FLUSH WITH
WALL AND EXTEND NEW PIPING FROM ABOVE CEILING TO (8) NEW
BRADLEY WS-1WCA OR WILLOUGHBY CWMS EXPOSED SHOWER
SYSTEM WITH THERMOSTATIC MIXING VALVE, SOAP DISH,
DELUXE SHOWER HEAD, AND VERTICAL SHROUD TO 5'-0".

BIDDING PHASE

NOT FOR CONSTRUCTION

ISSUE DATE: 03/05/2021

REVISIONS

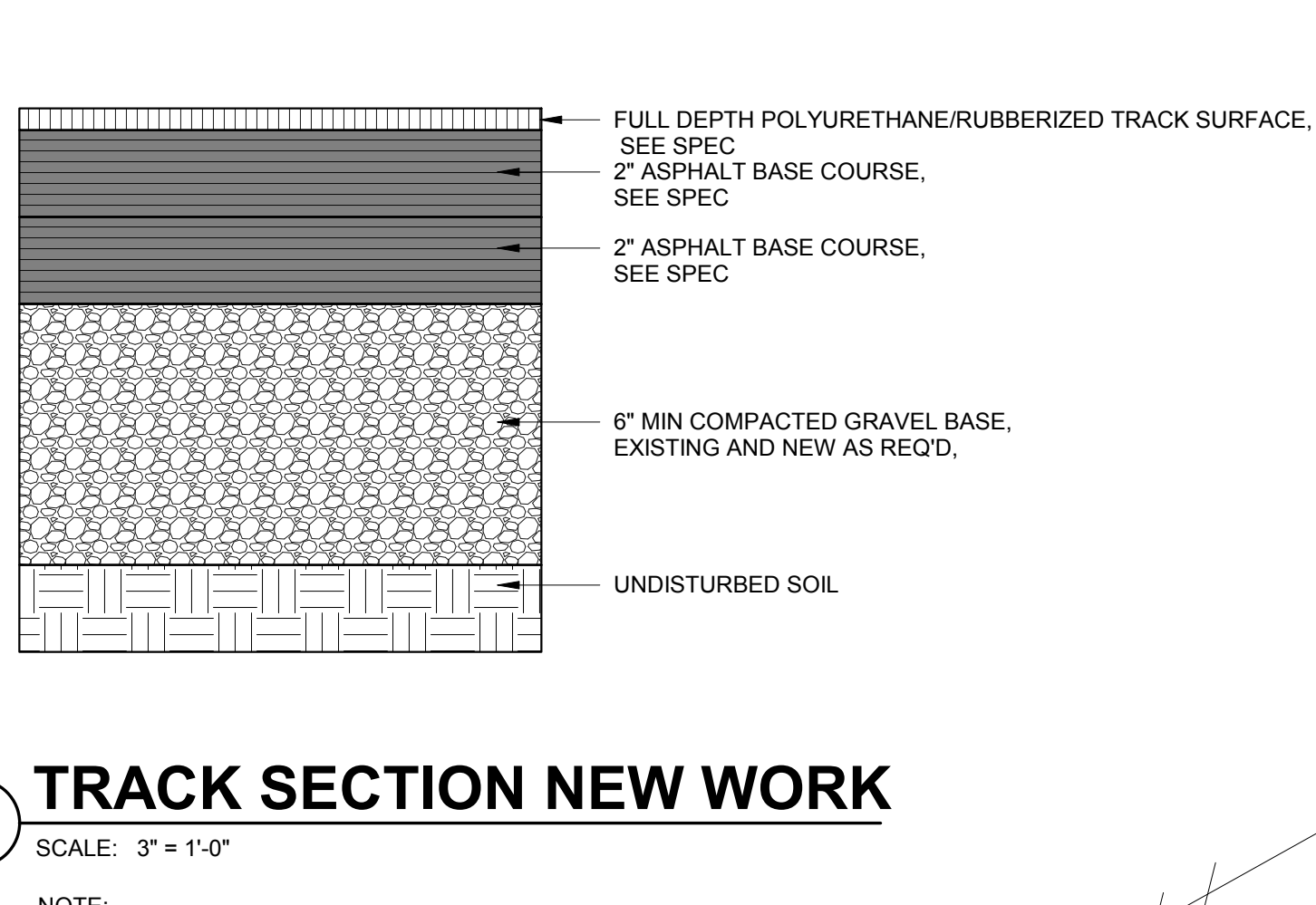
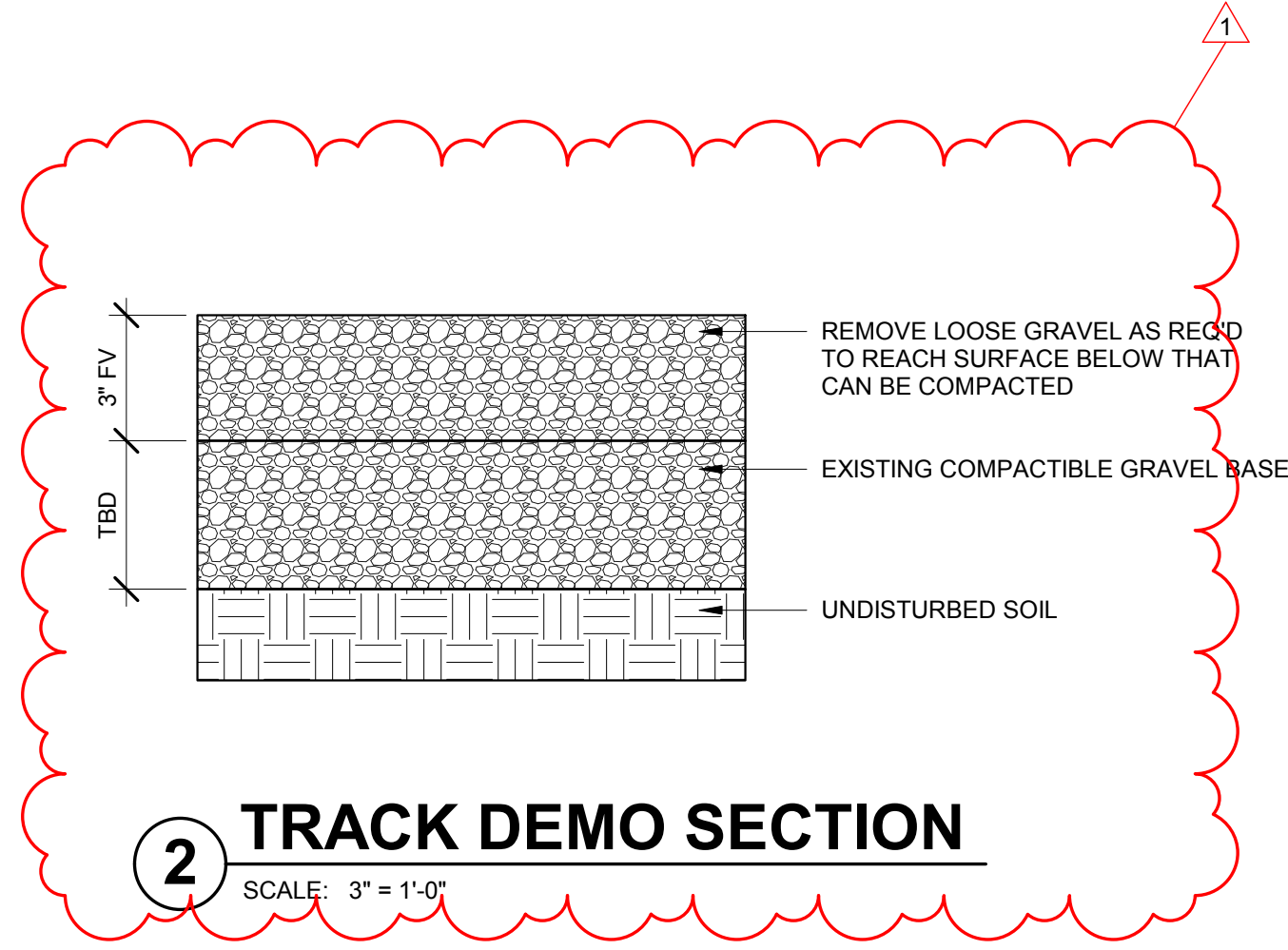
No.	Date	Description
1	3/9/21	ADD 01
2	3/31/21	ADD 02

PROJECT NUMBER: 5998

CAFETERIA, LOCKERS & MUSIC FLOOR PLANS

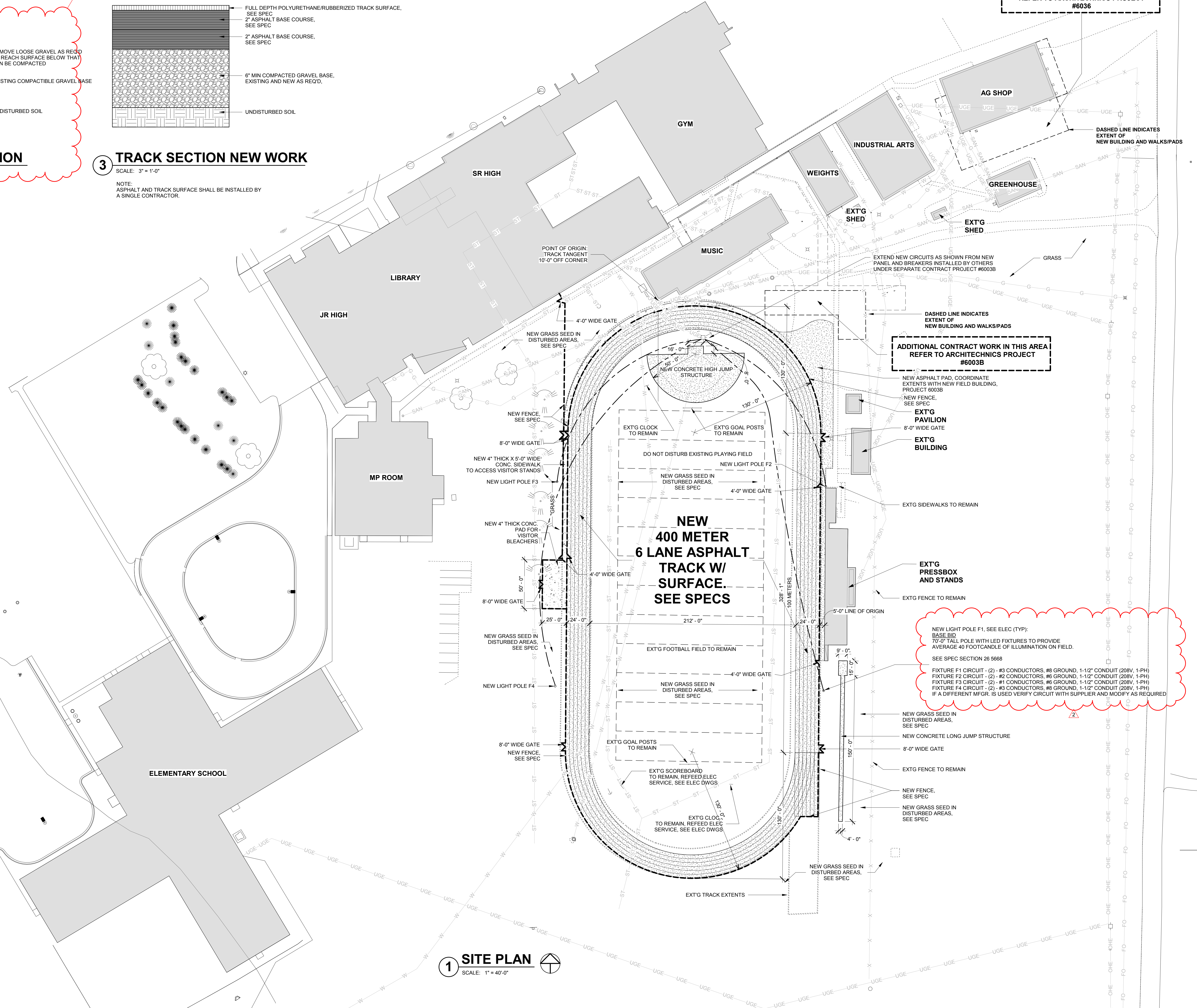
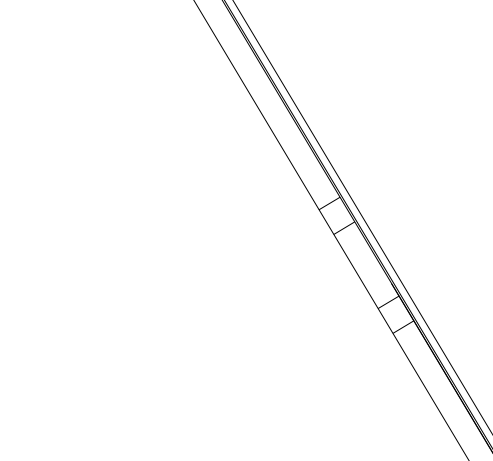
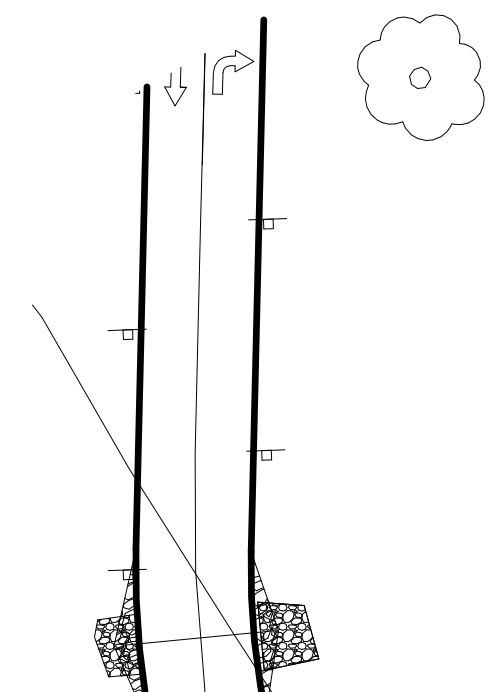
DWG. NO.

A102



2 TRACK DEMO SECTION
SCALE: 3" = 1'-0"

3 TRACK SECTION NEW WORK
SCALE: 3" = 1'-0"



REVISIONS		
No.	Date	Description
1	3/2/21	ADD 01
2	3/31/21	ADD 02

RALLS COUNTY R-II SCHOOL DISTRICT

ISSUED FOR BIDDING
03/05/2021

ARCHITECHNICS
architects • engineers • interior designers

INTERNATIONAL BUILDING CODE 2015

1. ALTERNATE BID D-1: PROVIDE EXPOSED FASTENER METAL ROOFING SYSTEM IN LIEU OF STANDING SEAM METAL
2. ALTERNATE BID D-2: PROVIDE CONVENTIONAL STICK FRAMED CONSTRUCTION IN LIEU OF PRE-ENGINEERED WOOD FRAMED CONSTRUCTION.

1. DIMENSIONS SHOWN ARE ACTUAL
2. OTHER EXTERIOR WALL CONDITIONS MAY OCCUR AT HIGHER ELEVATIONS, REFER TO BUILDING AND/OR INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
3. REFER TO SPEC SECTION 04 2000 AND STRUCTURAL DRAWINGS FOR CMU REINFORCING SIZE, SPACING, BOND BEAM LOCATIONS, LINTEL TYPES ETC FOR MASONRY WALLS.
4. SEE SPECIFICATIONS AND FINISH SCHEDULE FOR APPLICATION OF FINISHES AND FINISH REQUIREMENTS.

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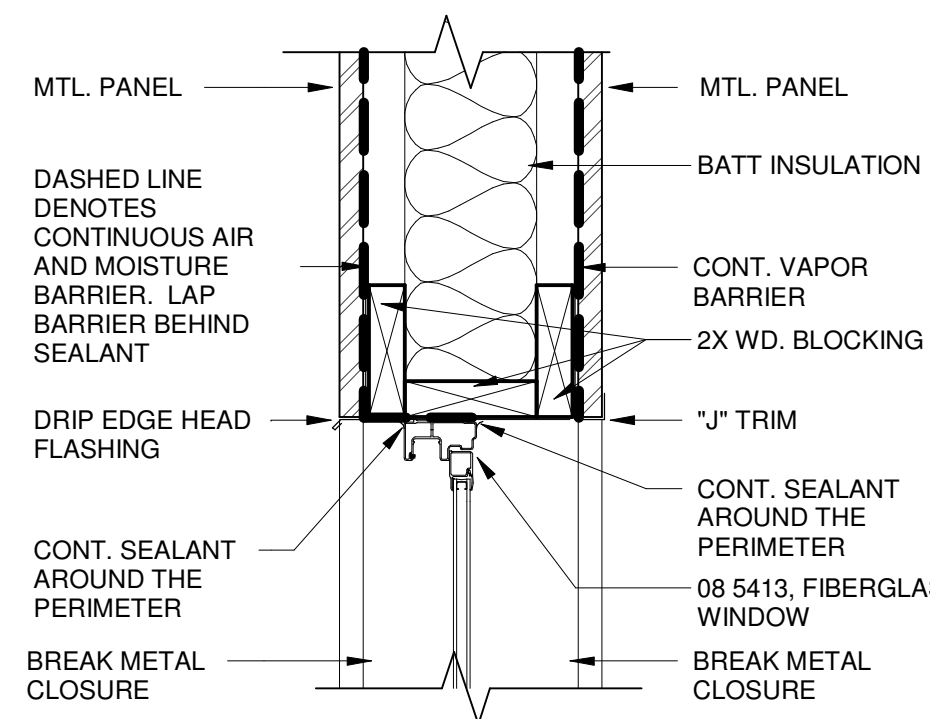
graph TD
    ARCHITECTURE[ARCHITECTURE] --> P1[PLANS, ELEVATIONS AND DETAILS]
    ARCHITECTURE --> A2[ALT BID D-2 DETAILS]
    P1 --> A100[A100]
    P1 --> A101[A101]
    A100 --> PLUMBING[PLUMBING]
    A100 --> MECHANICAL[MECHANICAL]
    A101 --> ELECTRICAL[ELECTRICAL]
    PLUMBING --> P100[P100]
    PLUMBING --> P200[P200]
    P100 --> SP[Sanitary Plumbing Plan]
    P100 --> DP[Domestic Plumbing Plan]
    MECHANICAL --> M100[M100]
    ELECTRICAL --> E100[E100]
    ELECTRICAL --> E200[E200]
    E100 --> EP[Electrical Power Plan]
    E100 --> EL[Electrical Lighting Plan]
  
```

ARCHITECTURE

- PLANS, ELEVATIONS AND DETAILS
 - A100
 - PLUMBING
 - P100
 - SANITARY PLUMBING PLAN
 - DOMESTIC PLUMBING PLAN
 - P200
 -
 - MECHANICAL
 - M100
 - MECHANICAL PLAN
 - A101
 - ELECTRICAL
 - E100
 - ELECTRICAL POWER PLAN
 - ELECTRICAL LIGHTING PLAN
 - E200
 -
- ALT BID D-2 DETAILS



AREA OF WORK



BREAK METAL CLOSURE

CONT. SEALANT AROUND THE PERIMETER

SILL FLASHING

DASHED LINE DENOTES CONTINUOUS AIR AND MOISTURE BARRIER, LAP BARRIER BEHIND SEALANT

MTL. PANEL

BREAK METAL CLOSURE

08 5413. FIBERGL WINDOW

CONT. SEALANT AROUND THE PERIMETER

"J" TRIM

2X WD. BLOCKING

CONT. VAPOR BARRIER

BATT INSULATION

MTL. PANEL

BACKER ROD AND SEALANT ALL AROUND, TYP. 07 9005

JAMB ANCHORS, 08 1113

8" NOM CMU, 04 2000

5 3/4" H.M FRAME, 08 1113

CENTER FRAME IN WALL

MTL. PANEL

CONT. VAPOR BARRIER

BATT INSULATION

DASHED LINE DENOTES CONTINUOUS AIR AND MOISTURE BARRIER, LAP BARRIER BEHIND SEALANT

DRIP EDGE HEAD FLASHING

BREAK METAL CLOSURE

OH DOOR, 08 3323

'J' TRIM

2X WD. BLOCKING A REQ'D

<u>01</u>	HINGES 1 1/2 PR CLOSER PUSH/PULL DEADBOLT (KEYED BOTH SIDES) SILENCERS	626 MATCH 626 626 626
<u>02</u>	HINGES 1 1/2 PR ENTRANCE LOCKSET CH STOP OR WALL STOP SILENCERS	626 626
<u>03</u>	HINGES 1 1/2 PR OFFICE LOCKSET WALL STOP SILENCERS	626 626
<u>04</u>	HINGES 1 1/2 PR CLOSER PUSH/PULL WALL STOP SILENCERS	626 MATCH 626 626

WINDOW SCHEDULE										
TYPE	R.O.		FINISH	HEAD	JAMB	SILL	Glazing	SILL HEIGHT	HEAD HEIGHT	COMMENTS
	WIDTH	HEIGHT					THICKNESS			
01	2' - 10"	3' - 10"	PREFIN	11/G000	12/G000	13/G000	see spec 08 5413	2' - 6"	6' - 4"	
02	2' - 10"	3' - 10"	PREFIN	11/G000	12/G000	13/G000	see spec 08 5413	2' - 6"	6' - 4"	
01	2' - 5"	3' - 0"	PREFIN	11/G000	12/G000	13/G000	see spec 08 8000	3' - 4"	6' - 4"	
02	2' - 6"	4' - 0"	PREFIN	11/G000	12/G000	13/G000	see spec 08 8000	3' - 2"	6' - 2"	

The technical drawings illustrate the installation details for a door and window. The left drawing shows a cross-section of a door frame with labels: MTL. PANEL, CONT. VAPOR BARRIER, BATT INSULATION, OH DOOR, 08 3323, "J" TRIM, and 2X WD. BLOCKING AS REQ'D. The right drawing shows a cross-section of a window frame with labels: "J" TRIM, CONTINUOUS AIR AND MOISTURE BARRIER, LAP BARRIER BEHIND SEALANT, MTL. PANEL, 2X WD. BLOCKING, BATT INSULATION, "J" TRIM, OH DOOR, 08 3323, and CONT. VAPOR BARRIER. The drawings show the relationship between the door/window unit, the framing, the insulation, and the vapor barrier.

ARCHITECTNICS
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510 Maine Street, Quincy, IL 62301 • 217-222-0554 • info@architectnics.com

STATE OF MISSOURI
JACQUES L. REYNOLDS
ARCHITECT
NUMBER
A-2007036508

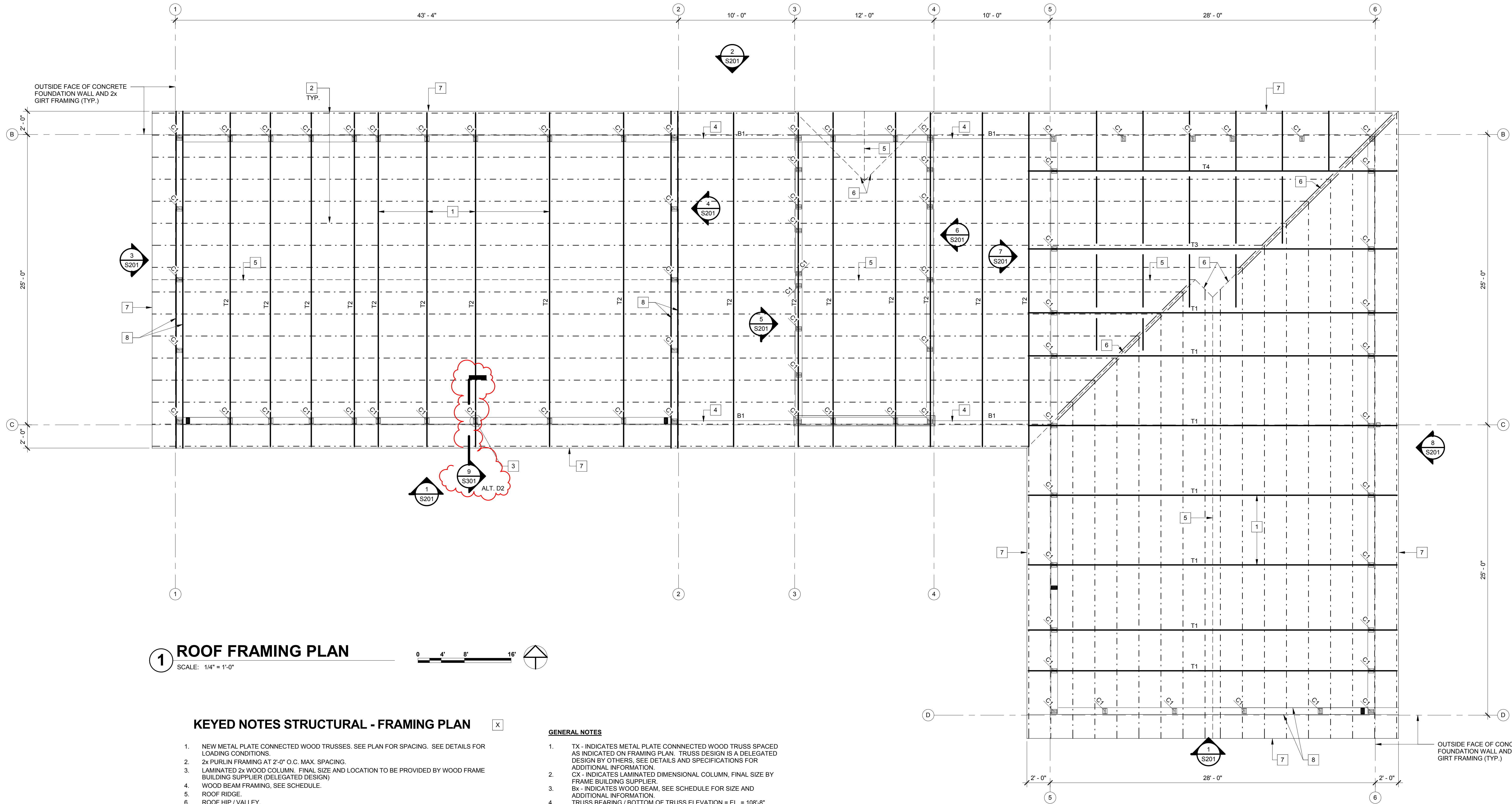
CENTER, MO 63436

REVISIONS		
D.	Date	Description
1	3/26/21	ADD. 01
2	3/31/21	ADD. 02

PROJECT NUMBER:6003B

WG. NO.

G000



1 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES STRUCTURAL - FRAMING PLAN

1. NEW METAL PLATE CONNECTED WOOD TRUSSES. SEE PLAN FOR SPACING. SEE DETAILS FOR LOADING CONDITIONS.
2. 2x PURLIN FRAMING AT 2'-0" O.C. MAX. SPACING.
3. LAMINATED 2x WOOD COLUMN. FINAL SIZE AND LOCATION TO BE PROVIDED BY WOOD FRAME BUILDING SUPPLIER (DELEGATED DESIGN).
4. WOOD BEAM FRAMING. SEE SCHEDULE.
5. ROOF RIDGE.
6. ROOF HIP / VALLEY.
7. EDGE OF STANDING SEAM ROOF.
8. 2x RAKE FRAMING.

GENERAL NOTES

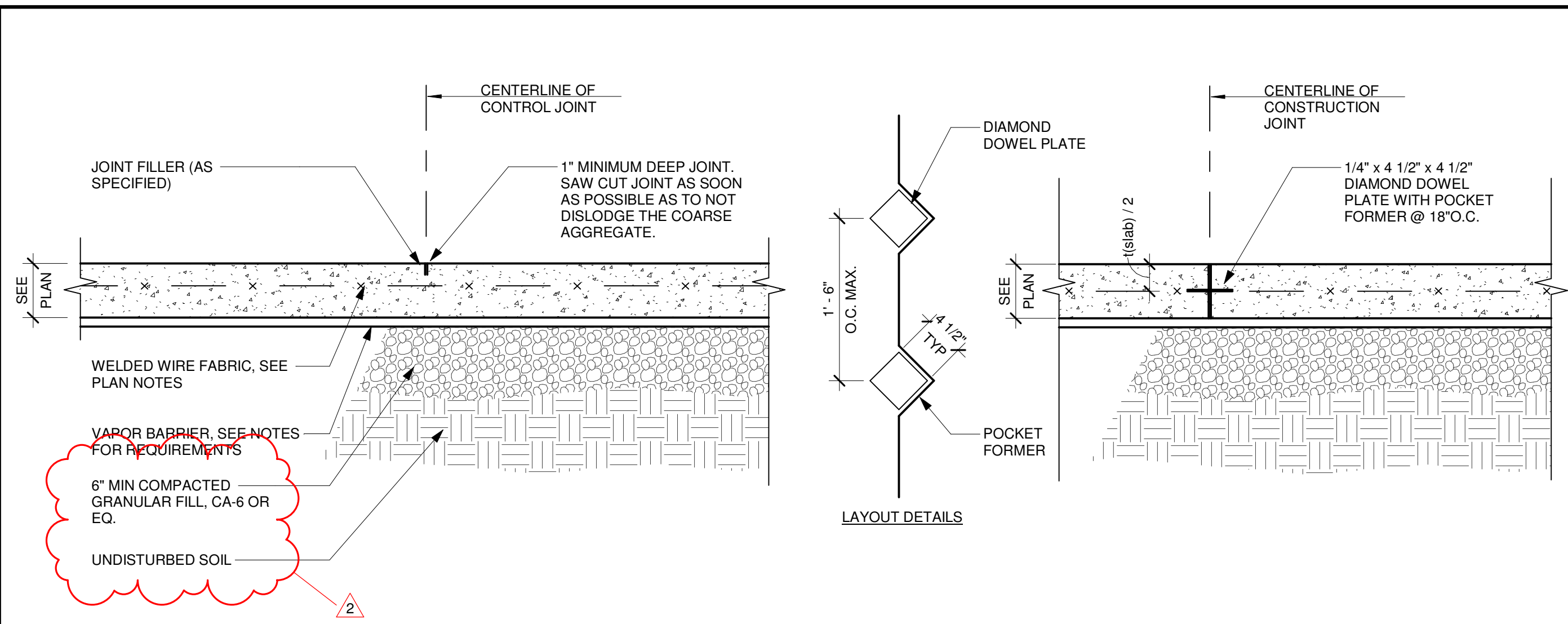
1. TX - INDICATES METAL PLATE CONNECTED WOOD TRUSS SPACED AS INDICATED ON FRAMING PLAN. TRUSS DESIGN IS A DELEGATED DESIGN BY OTHERS. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CX - INDICATES LAMINATED DIMENSIONAL COLUMN. FINAL SIZE BY FRAME BUILDING SUPPLIER.
3. Bx - INDICATES WOOD BEAM. SEE SCHEDULE FOR SIZE AND ADDITIONAL INFORMATION.
4. TRUSS BEARING / BOTTOM OF TRUSS ELEVATION = EL. = 108'-8"

BEAM SCHEDULE

MARK	MATERIAL	SIZE	END SUPPORT	BEARING LENGTH (MIN)	MECHANICAL CONNECTOR	REMARKS
B1	PSL 2.0E	3 1/2" x 9 1/4"	STUD WALL	3.5"	(3) TOE NAIL (EA END)	--

2 BEAM SCHEDULE

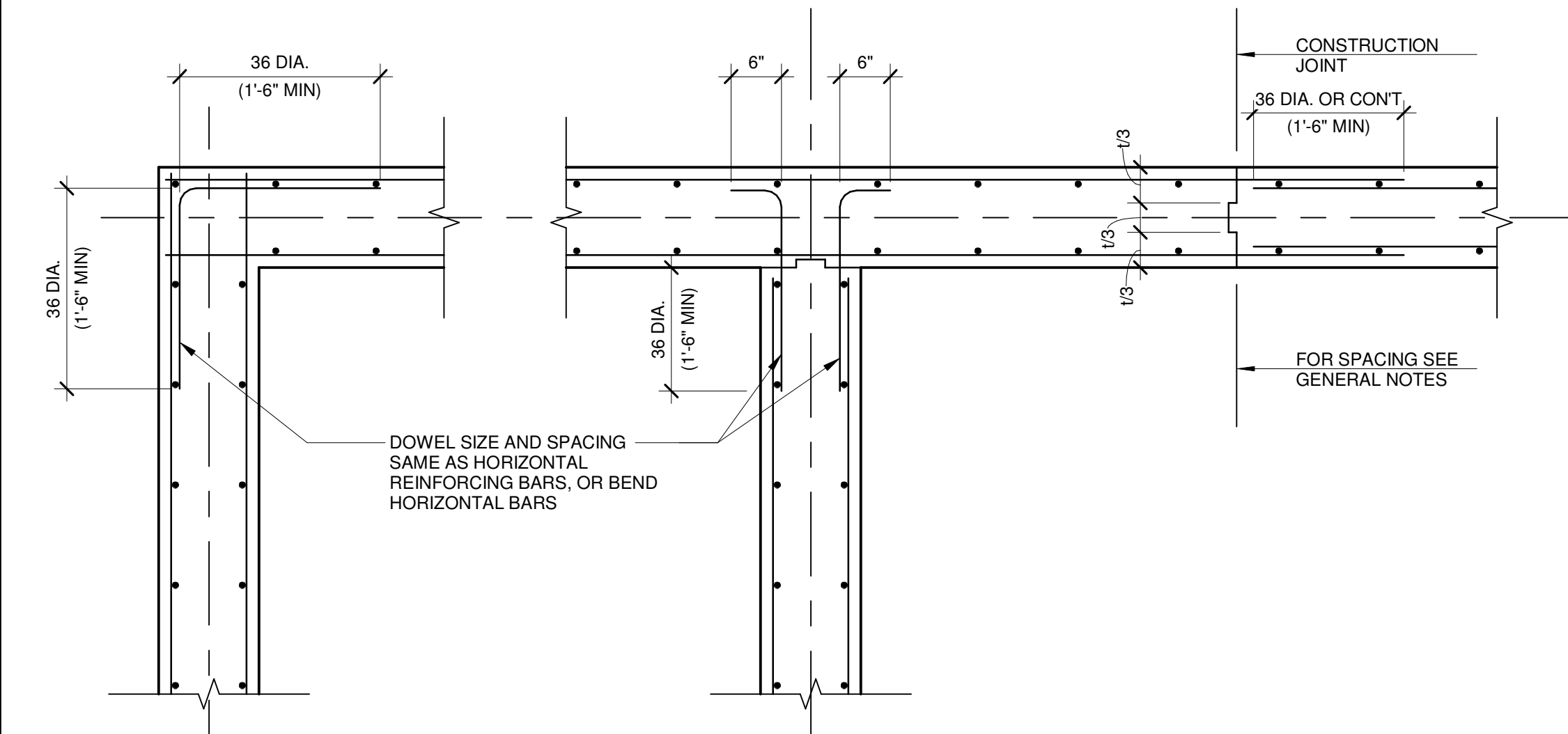
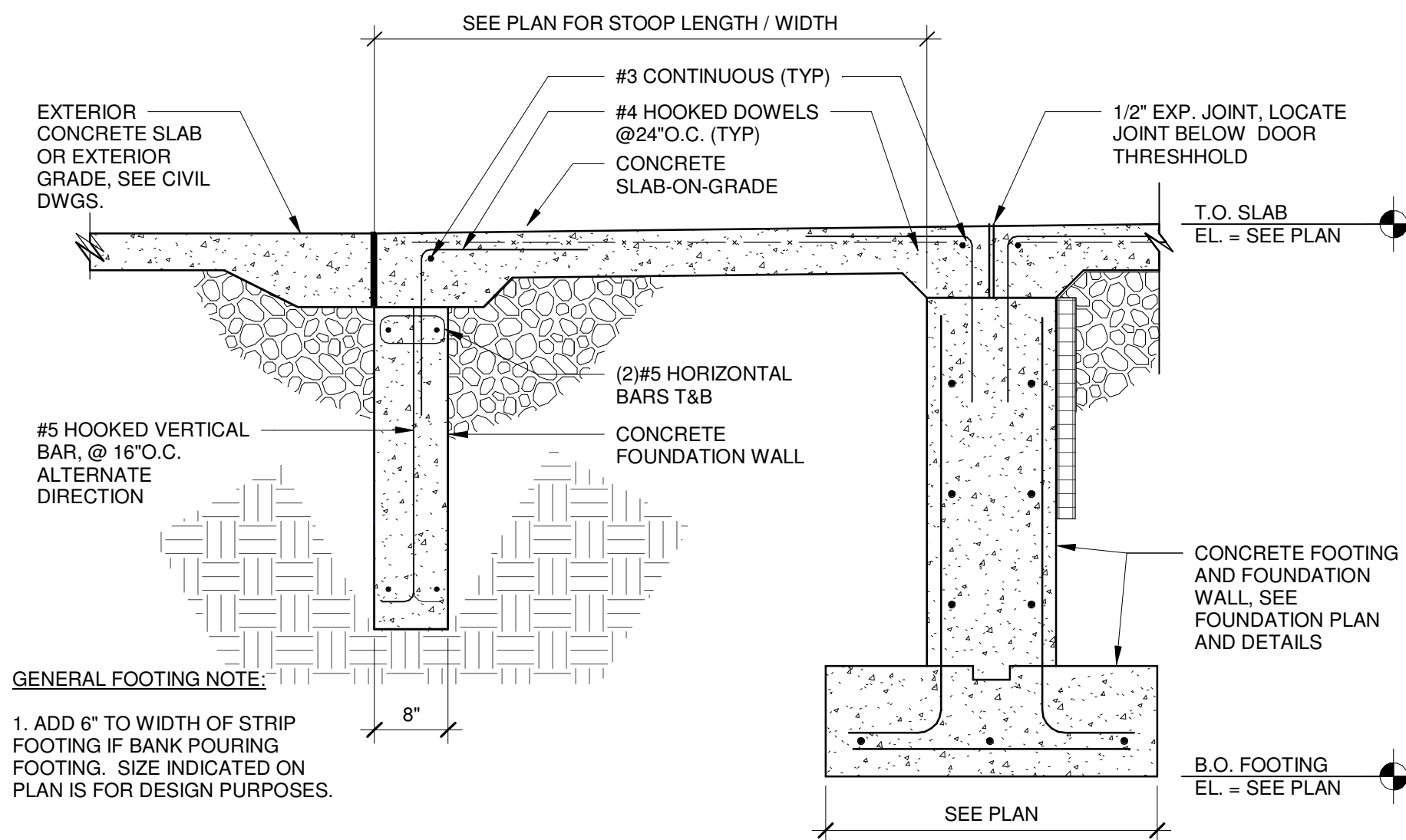
REVISIONS		
NO.	Date	Description
1	3/2/21	ADD 01
2	3/31/21	ADD 02



1 TYPICAL SLAB-ON-GRADE DETAIL
SCALE: 1" = 1'-0"

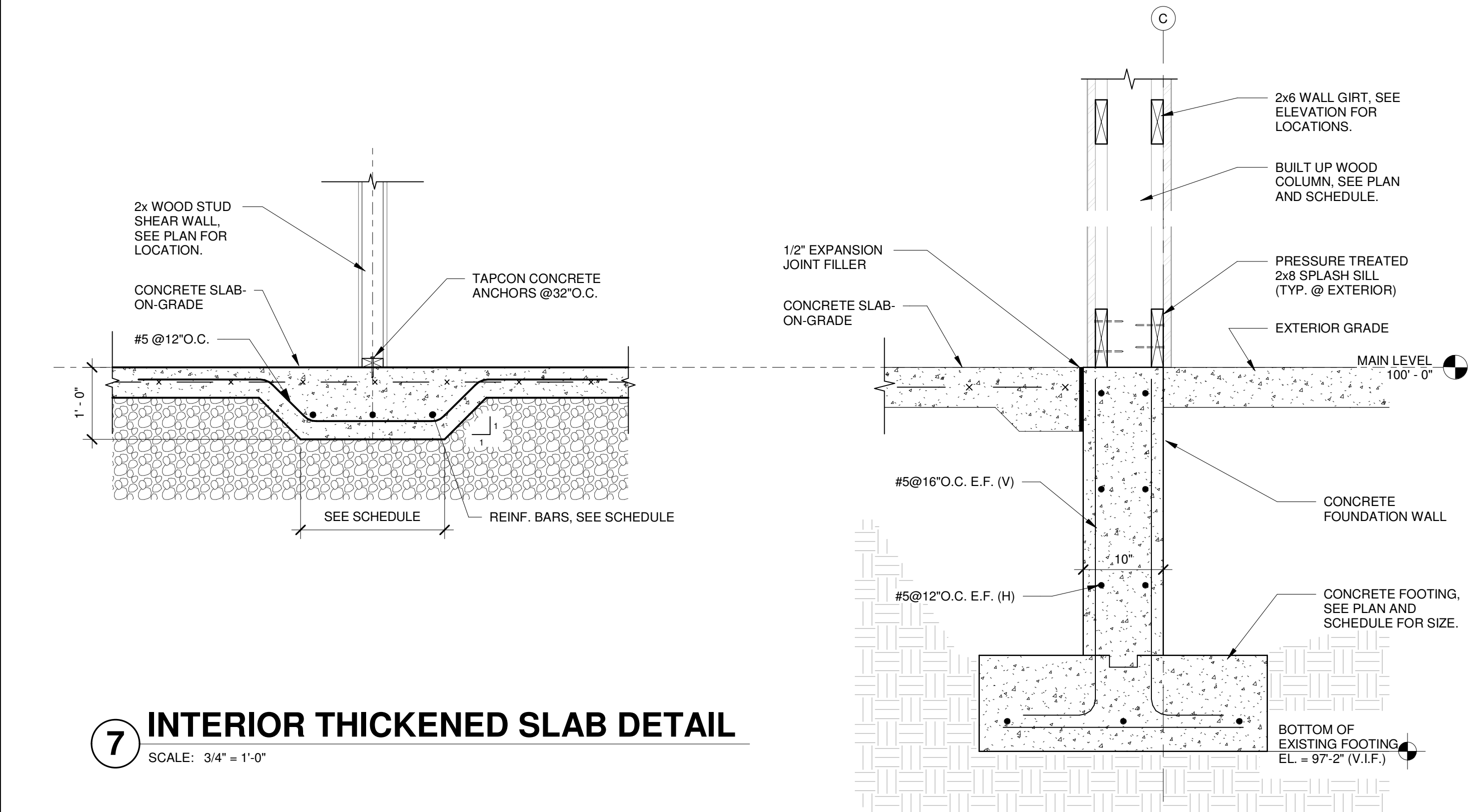
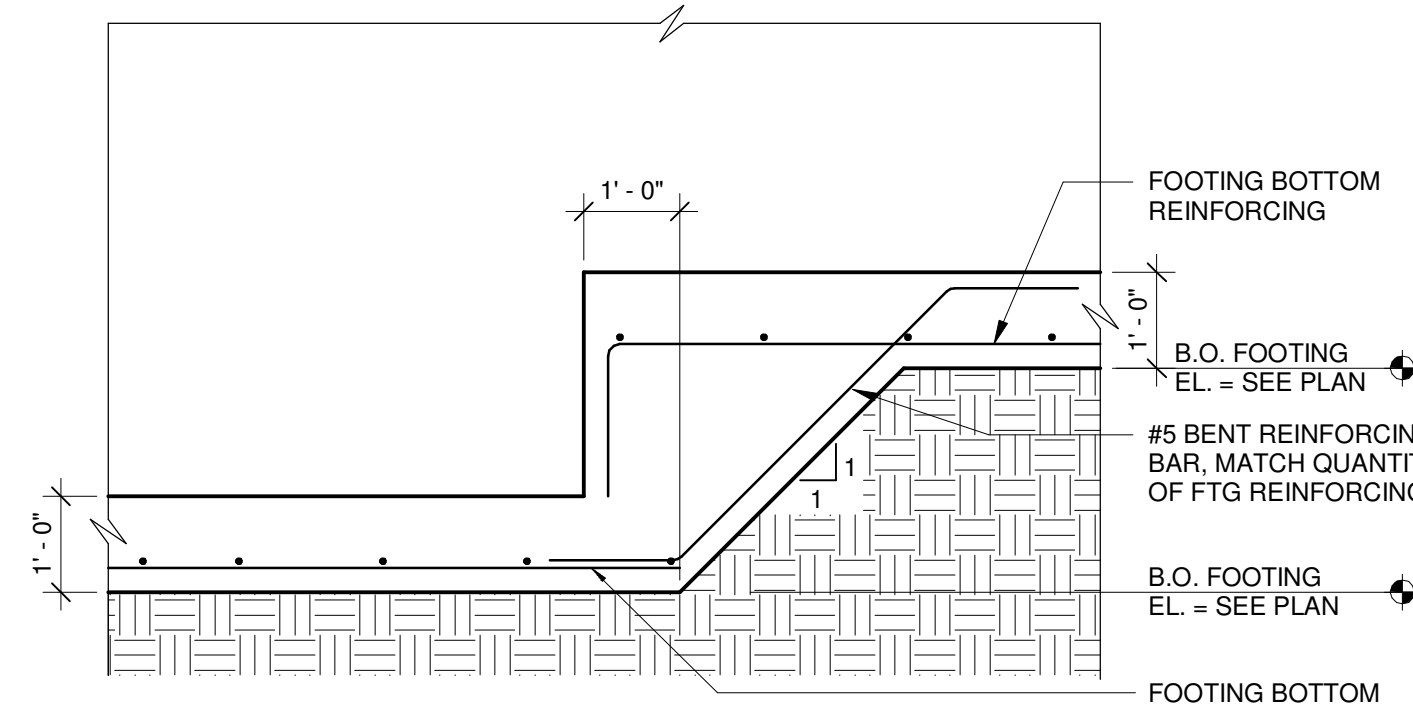
2 TYPICAL SLAB-ON-GRADE DETAIL
SCALE: 1" = 1'-0"

3 CONCRETE STOOP FOUNDATION
SCALE: 3/4" = 1'-0"



5 TYP. CONC. WALL CORNER, INTERSECTION AND CONSTRUCTION JOINT DETAILS
SCALE: 3/4" = 1'-0"

6 STEPPED FOOTING DETAIL
SCALE: 1/2" = 1'-0"



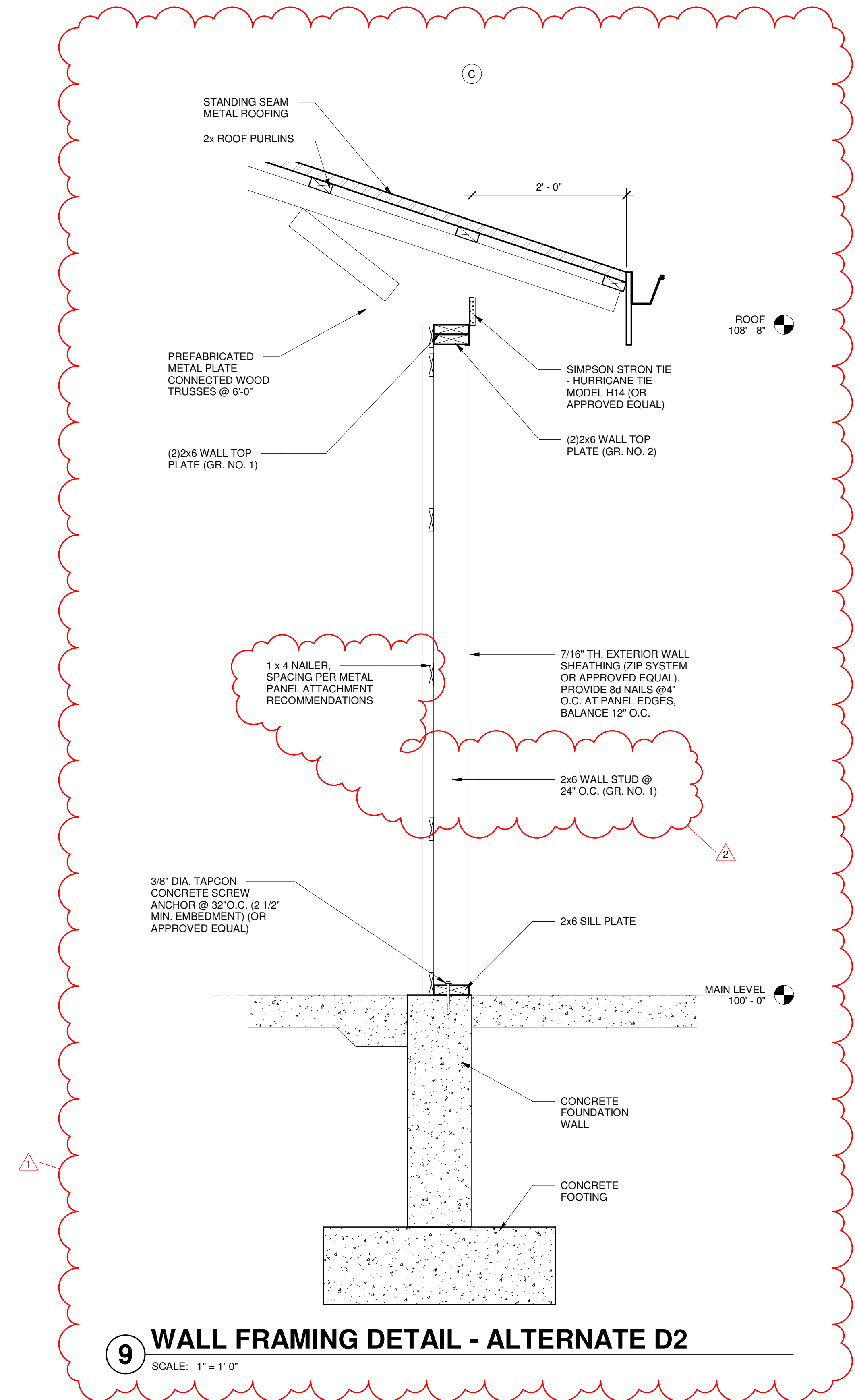
7 INTERIOR THICKENED SLAB DETAIL
SCALE: 3/4" = 1'-0"

8 TYPICAL FOUNDATION WALL DETAIL
SCALE: 1" = 1'-0"

FOOTING SCHEDULE						ISOLATED FTGS. $f_{bearing} = 1,500 \text{ psf}$	WALL FTGS. $f_{bearing} = 1,200 \text{ psf}$
FOOTING MARK	WIDTH - W (FT)	LENGTH - L (FT)	THICKNESS (FT)	BOTTOM REINFORCING	TOP REINFORCING		
WF1.0	2'-6"	-	1'-0"	(4)#5 CONT. (LONG.) #5 @ 12" O.C. (TRANS.)	-		
WF2.0	3'-0"	-	1'-0"	(4)#6 CONT. (LONG.) #6 @ 12" O.C. (TRANS.)	-		

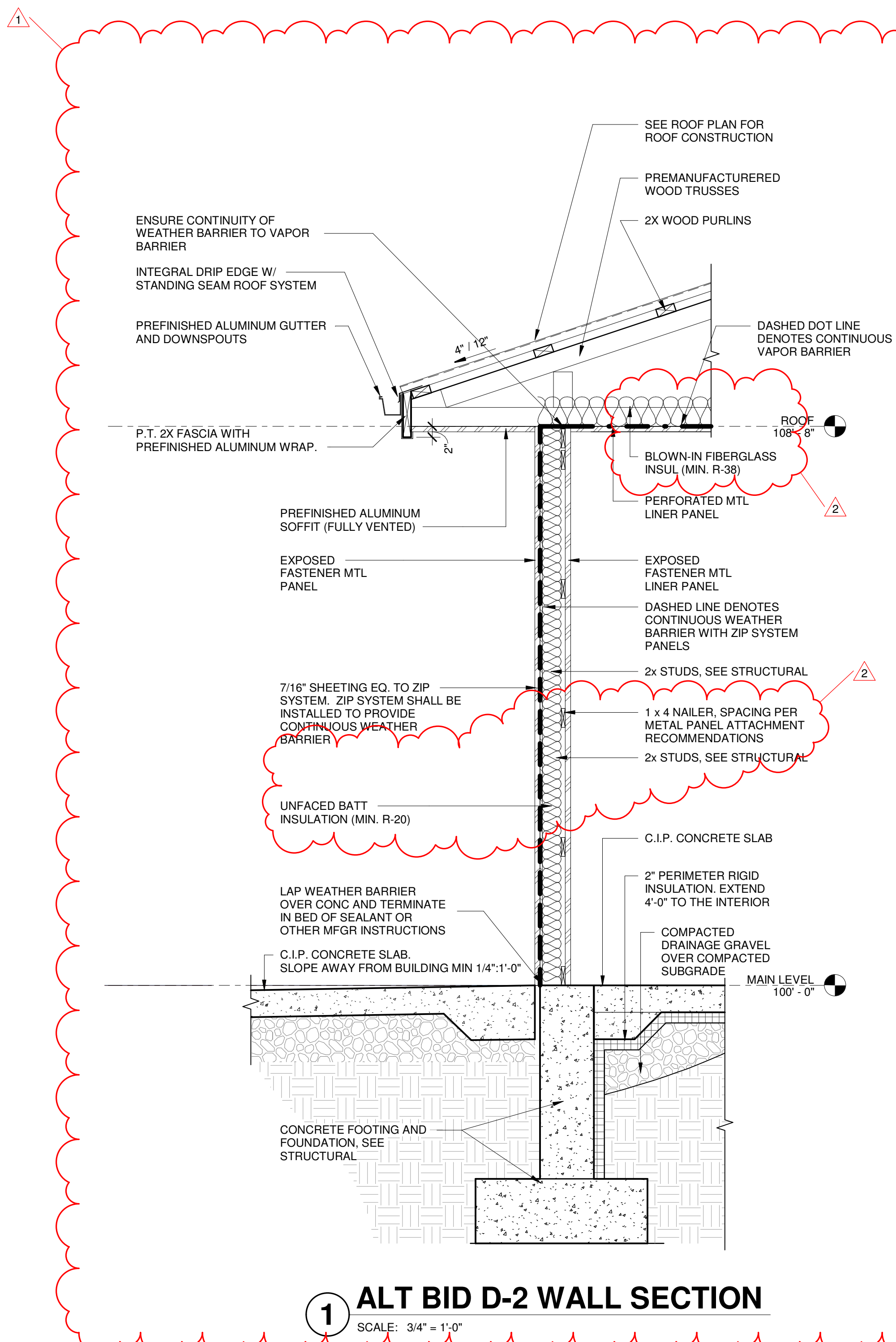
GENERAL FOOTING NOTES:
1. ADD 6" TO WIDTH AND LENGTH OF FOOTING IF BANK POURING FOOTING. SIZE INDICATED ABOVE IS FOR DESIGN PURPOSES.
2. BOTTOM OF FOOTING ELEVATIONS NOTED ABOVE ARE UNLESS OTHERWISE NOTED ON FOUNDATION PLANS OR DETAILS.

4 FOOTING SCHEDULE
SCALE: 1" = 1'-0"



9 WALL FRAMING DETAIL - ALTERNATE D2
SCALE: 1" = 1'-0"

3/30/2021 4:53:39 PM ARCHITECTONICS INC.



OWNER:
RALLS COUNTY R-II
SCHOOL DISTRICT
21622 HIGHWAY 19
CENTER, MO 63436

RALLS COUNTY R-II SCHOOL DISTRICT
NEW FIELD BUILDING
21622 HIGHWAY 19
CENTER, MO 63436

BIDDING PHASE

NOT FOR CONSTRUCTION

ISSUE DATE: 03/05/21

REVISIONS

NO.	Date	Description
1	3/05/21	ADD 01
2	3/31/21	ADD 02

PROJECT NUMBER: 60036

ALT BID D-2
DETAILS

DWG. NO.

A101

ARCHITECTONICS
architects • engineers • interior designers
870 N. Main Street, Suite 101, Liberty, MO 64015
620.255.0000 • info@architectonics.com

AG BUILDING ADDITION

RALLS COUNTY R-II SCHOOL DISTRICT

21622 HIGHWAY 19
CENTER, MO 63436

ISSUED FOR BIDDING
03/05/2021

ARCHITECT OF RECORD:

ARCHITECHNICS
architects • engineers • interior designers

CONTACT PERSON: JACQUES REYNOLDS
PROJECT NO. 5730
STATE OF MISSOURI
ENGINEERING DESIGN FIRM 2014009673
ARCHITECTURAL DESIGN FIRM 2014009673

APPLICABLE CODES

INTERNATIONAL BUILDING CODE 2015

GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS.
- ANY DISCREPANCIES BETWEEN STATED AND EXISTING CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.
- DISCREPANCIES OR CONFLICTS BETWEEN SPECIFICATIONS AND DRAWINGS SHALL BE MADE KNOWN TO THE ARCHITECT FOR CLARIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THOSE AREAS TO REMAIN UNDISTURBED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS, AS PER THE WRITTEN SPECIFICATIONS, TO MAINTAIN SAFETY AT THE CONSTRUCTION SITE, AND HE IS SOLELY RESPONSIBLE FOR SAFETY MEASURES. THE CONTRACTOR IS ALSO SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND TECHNIQUES REGARDING EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL CONFORM TO ALL LOCAL AND STATE CODES AND RECEIVE LOCAL AND STATE APPROVAL WHERE NECESSARY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS AND PAY ALL LEGAL FEES. HE SHALL ALSO COMPLY WITH ALL CITY, COUNTY, AND STATE BUILDING LAWS, ORDINANCES, OR REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE PREMISES OR ADJACENT PREMISES, OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION OF THE WORK, CAUSED BY HIMSELF, HIS SUBCONTRACTORS, OR THE CARELESSNESS OF ANY OF HIS EMPLOYEES.
- THE CONTRACTOR MUST UNDERSTAND THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SAME IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY TEMPORARY MEASURES FOR THE PROTECTION OF THE WORK, INCLUDING BARRICADES, WARNING SIGNS, LIGHTS, ETC.

ALTERNATES

- ALTERNATE BID E-1: PROVIDE EXPOSED FASTENER METAL ROOFING SYSTEM IN LIEU OF STANDING SEAM METAL.
- ALTERNATE BID E-2: PROVIDE AND INSTALL AIR CONDITIONING FOR EXISTING SHOP.
- ALTERNATE BID E-3: PROVIDE AND INSTALL AIR CONDITIONING FOR NEW SHOP.
- ALTERNATE BID E-4: PROVIDE CONVENTIONAL STICK FRAMED CONSTRUCTION IN LIEU OF PRE-ENGINEERED WOOD FRAMED CONSTRUCTION.

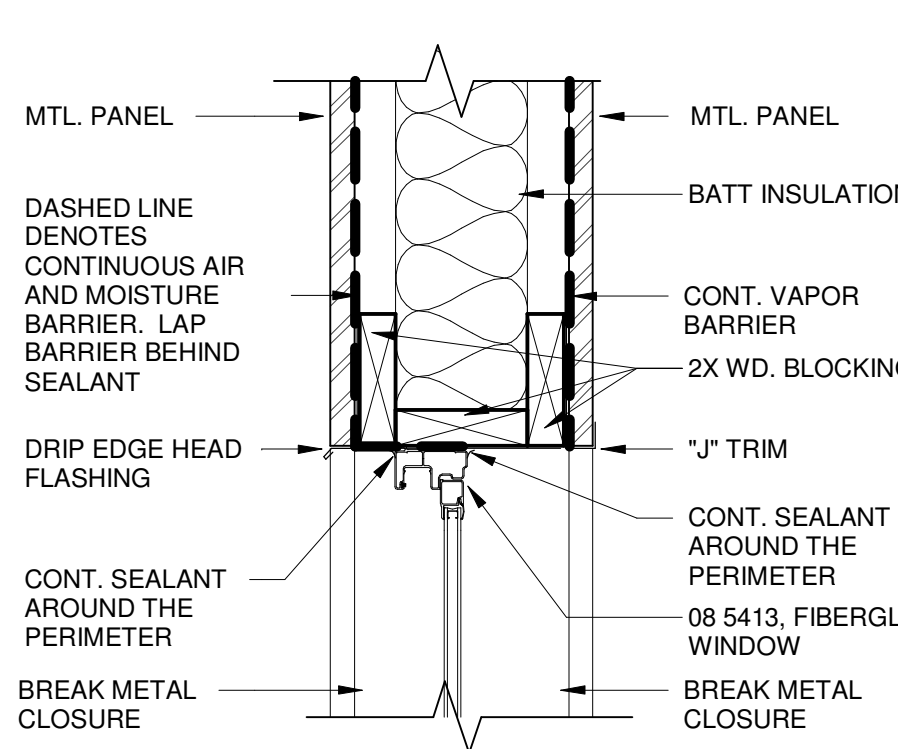
INDEX OF DRAWINGS

TITLE	TITLE
G000	SURVEY
G001	
CIVIL	
C100	SITE PLANS
STRUCTURAL	
S001	STRUCTURAL NOTES
S002	STRUCTURAL NOTES
S101	FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S201	STRUCTURAL ELEVATIONS
S301	CONCRETE DETAILS
S302	FOUNDATION DETAILS
S401	FRAMING DETAILS
ARCHITECTURE	
A100	FLOOR PLAN, ROOF PLAN, R.C.P., DETAILS
A200	BUILDING ELEVATIONS
MECHANICAL	
MP100	MECHANICAL / PLUMBING PLAN
ELECTRICAL	
E000	ELECTRICAL DETAILS
E100	ELECTRICAL POWER PLAN
E101	HVAC POWER PLAN
E200	ELECTRICAL LIGHTING PLAN

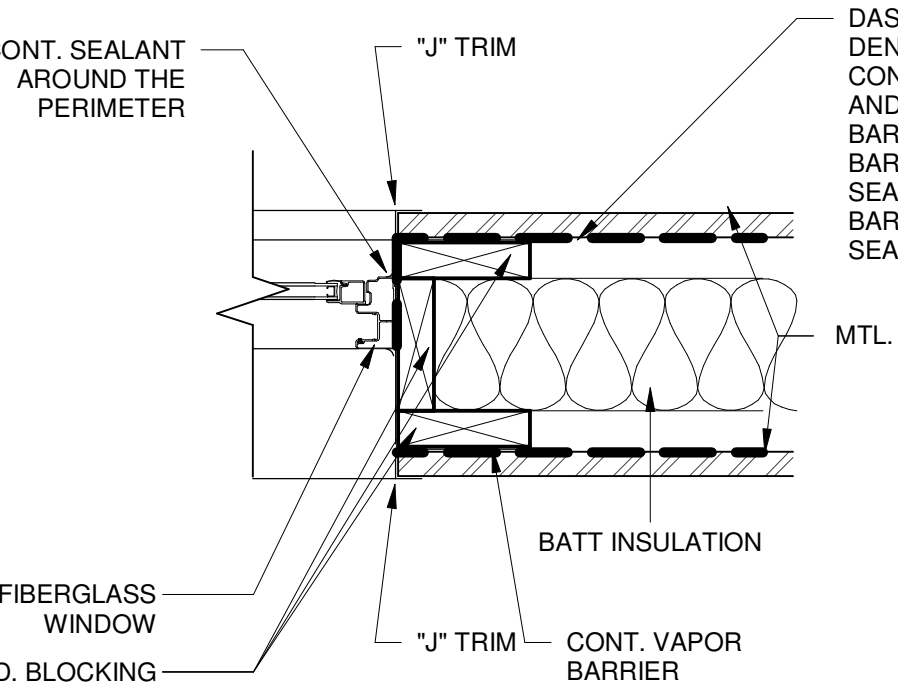


4 STATE OF MISSOURI
SCALE: 1/2" = 1'-0"

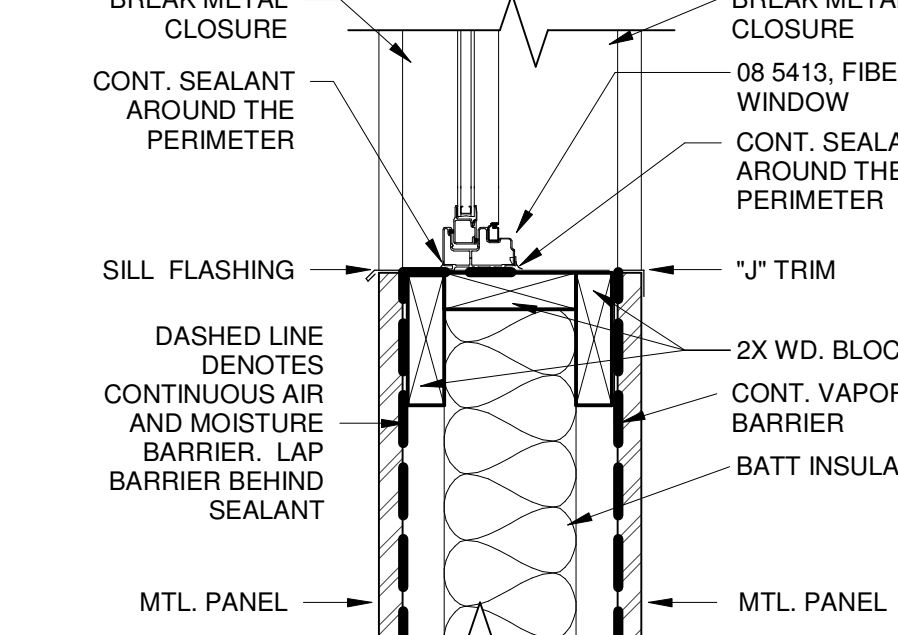
11 WINDOW SILL DETAIL
SCALE: 1 1/2" = 1'-0"



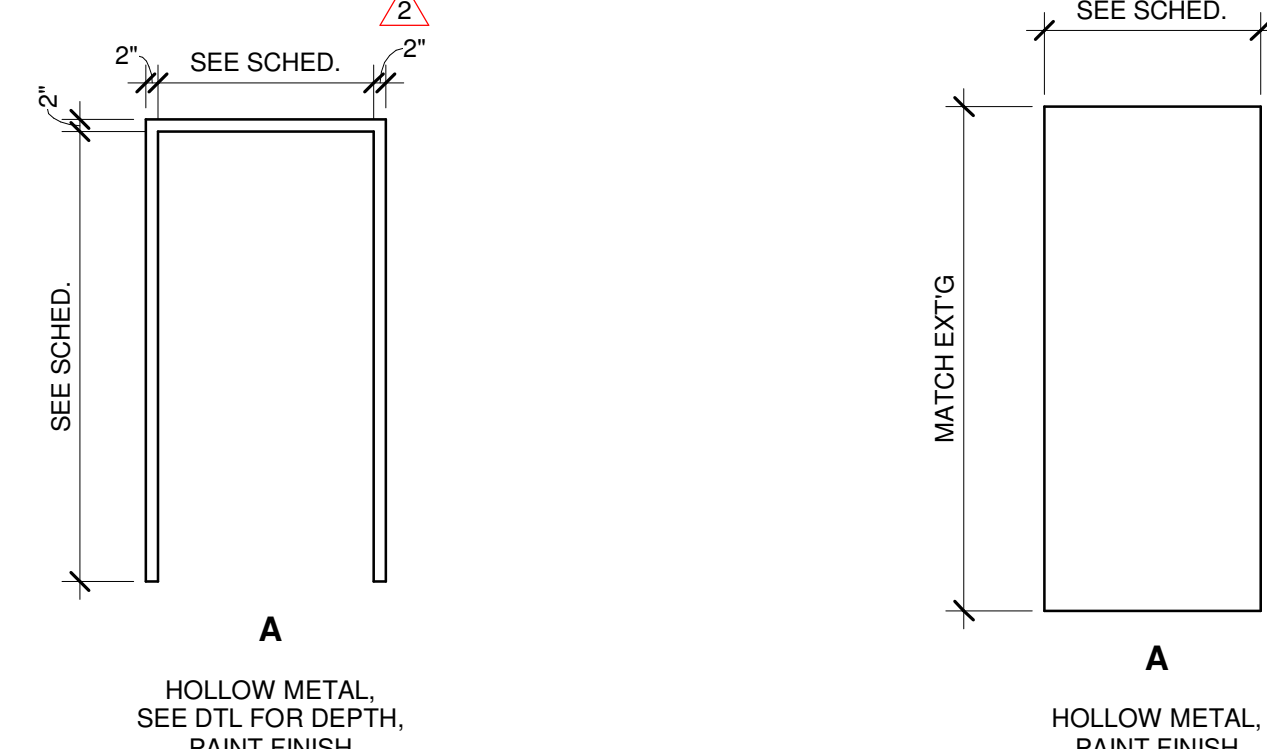
9 WINDOW HEAD
SCALE: 1 1/2" = 1'-0"



10 WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



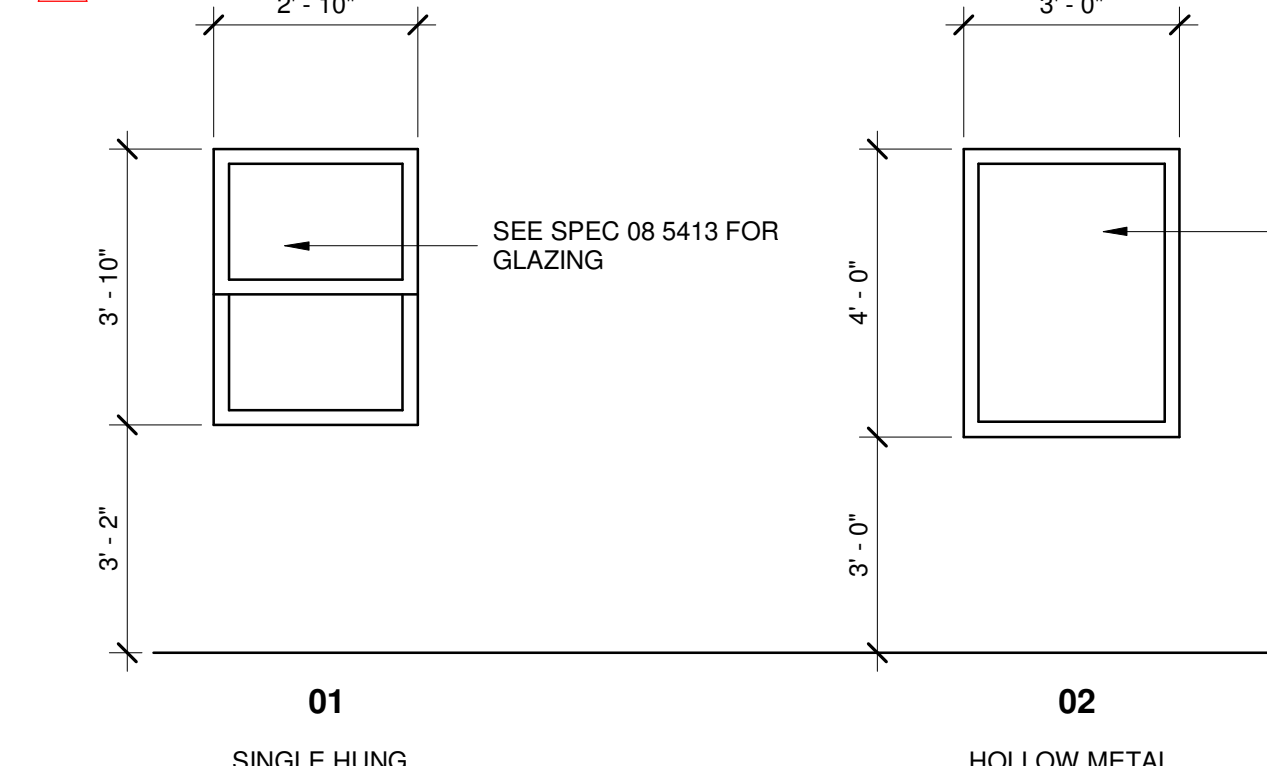
DOOR SCHEDULE													
WT	SIZE			DOOR			FRAME				THRESHOLD	HDWE. GROUP	REMARKS
	W.	HT.	TH.	MAT'L	FIN.	TYPE	MAT'L	FIN.	TYPE	HEAD	JAMB		
100	3'-0"	7'-0"	1 3/4"	HM	PAINT	2B/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	01
100A	3'-0"	7'-0"	1 3/4"	HM	PAINT	2B/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	01
100B	3'-0"	7'-0"	1 3/4"	HM	PAINT	2B/G000	HM	PAINT	1A/G000	5/G000	6/G000	N/A	02
101	6'-0"	7'-0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	N/A	04
102	3'-0"	7'-0"	1 3/4"	HM	PAINT	2B/G000	HM	PAINT	1A/G000	5/G000	6/G000	N/A	02
103	3'-0"	7'-0"	1 3/4"	HM	PAINT	2B/G000	HM	PAINT	1A/G000	5/G000	6/G000	N/A	02
103A	6'-0"	7'-0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	N/A	02
104	3'-0"	7'-0"	1 3/4"	HM	PAINT	2B/G000	HM	PAINT	1A/G000	5/G000	6/G000	N/A	03
105	3'-0"	7'-0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	N/A	04
106	3'-0"	7'-0"	1 3/4"	HM	PAINT	2B/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	02
106A	9'-0"	8'-0"	2"	SEE SPEC	PREFIN	SEE ELEV	BY MGR	PREFIN	BY MGR	7/G000	8/G000	N/A	SEE SPEC
106B	3'-0"	7'-0"	1 3/4"	HM	PAINT	2B/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	01
106C	3'-0"	7'-0"	1 3/4"	HM	PAINT	2B/G000	HM	PAINT	1A/G000	5/G000	6/G000	N/A	02



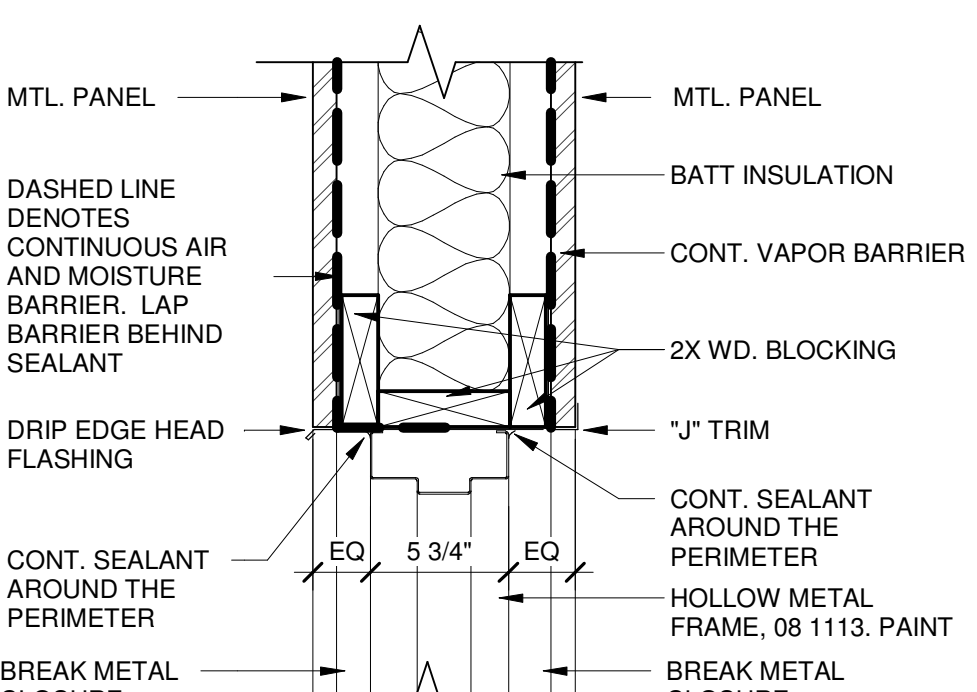
1 DOOR FRAME TYPES
SCALE: 3/8" = 1'-0"

2 DOOR TYPES
SCALE: 3/8" = 1'-0"

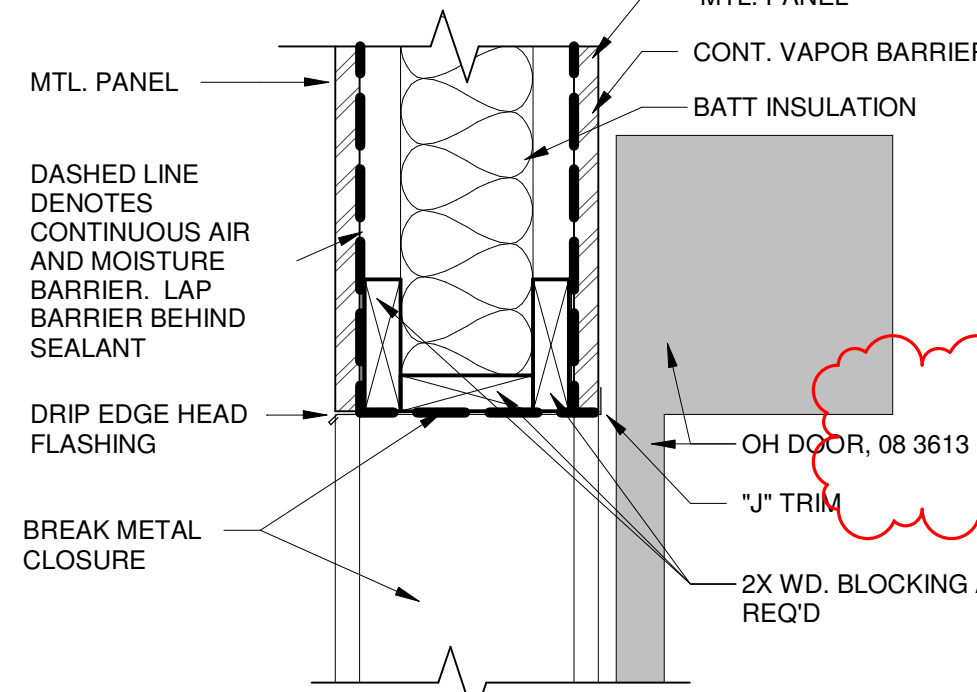
WINDOW SCHEDULE										
TYPE	R.O.		FINISH	HEAD	JAMB	SILL	Glazing	SILL HEIGHT	HEAD HEIGHT	COMMENTS
	WIDTH	HEIGHT					THICKNESS			
01	2'-10"	3'-10"	PREFIN	9/G000	10/G000	11/G000	see spec 08 5413	3'-2"	7'-0"	
01	2'-10"	3'-10"	PREFIN	9/G000	10/G000	11/G000	see spec 08 5413	3'-2"	7'-0"	
01	2'-10"	3'-10"	PREFIN	9/G000	10/G000	11/G000	see spec 08 5413	3'-2"	7'-0"	
01	2'-10"	3'-10"	PREFIN	9/G000	10/G000	11/G000	see spec 08 5413	3'-2"	7'-0"	
01	2'-10"	3'-10"	PREFIN	9/G000	10/G000	11/G000	see spec 08 5413	3'-2"	7'-0"	
01	2'-10"	3'-10"	PREFIN	9/G000	10/G000	11/G000	see spec 08 5413	3'-2"	7'-0"	
01	2'-10"	3'-10"	PREFIN	9/G000	10/G000	11/G000	see spec 08 5413	3'-2"	7'-0"	
01	2'-10"	3'-10"	PREFIN	9/G000	10/G000	11/G000	see spec 08 5413	3'-2"	7'-0"	
01	2'-10"	3'-10"	PREFIN	9/G000	10/G000	11/G000	see spec 08 5413	3'-2"	7'-0"	
02	3'-0"	4'-0"	PAINT	12/G000	12/G000 SIM	12/G000 SIM	see spec 08 8000	3'-2"	7'-2"	
02	3'-0"	4'-0"	PAINT	12/G000	12/G000 SIM	12/G000 SIM	see spec 08 8000	3'-2"	7'-2"	
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02	3'-0"	4'-0"	PAINT	12/G000	12/G000 SIM	12/G000 SIM	see spec 08 8000	3'-0"	7'-0"	
02	3'-0"	4'-0"	PAINT	12/G000	12/G000 SIM	12/G000 SIM	see spec 08 8000	3'-0"	7'-0"	



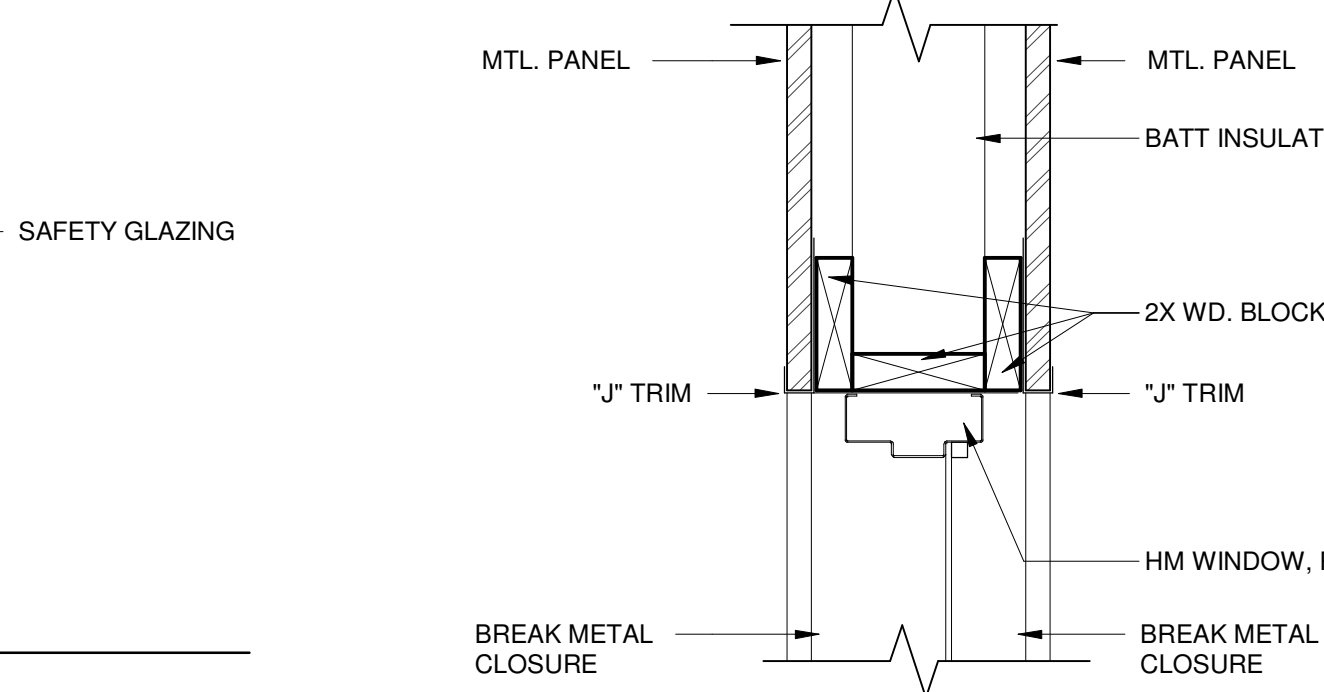
3 WINDOW TYPES
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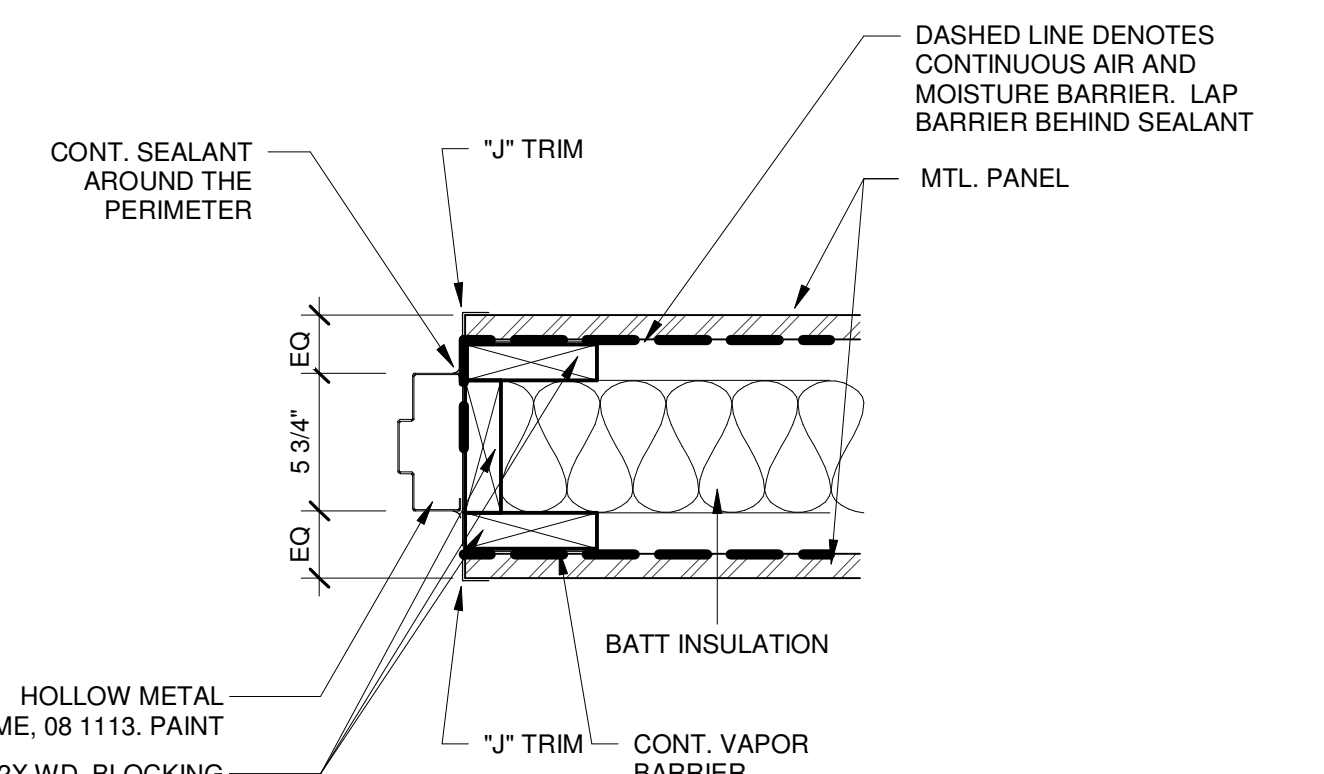
5 DOOR HEAD
SCALE: 1 1/2" = 1'-0"



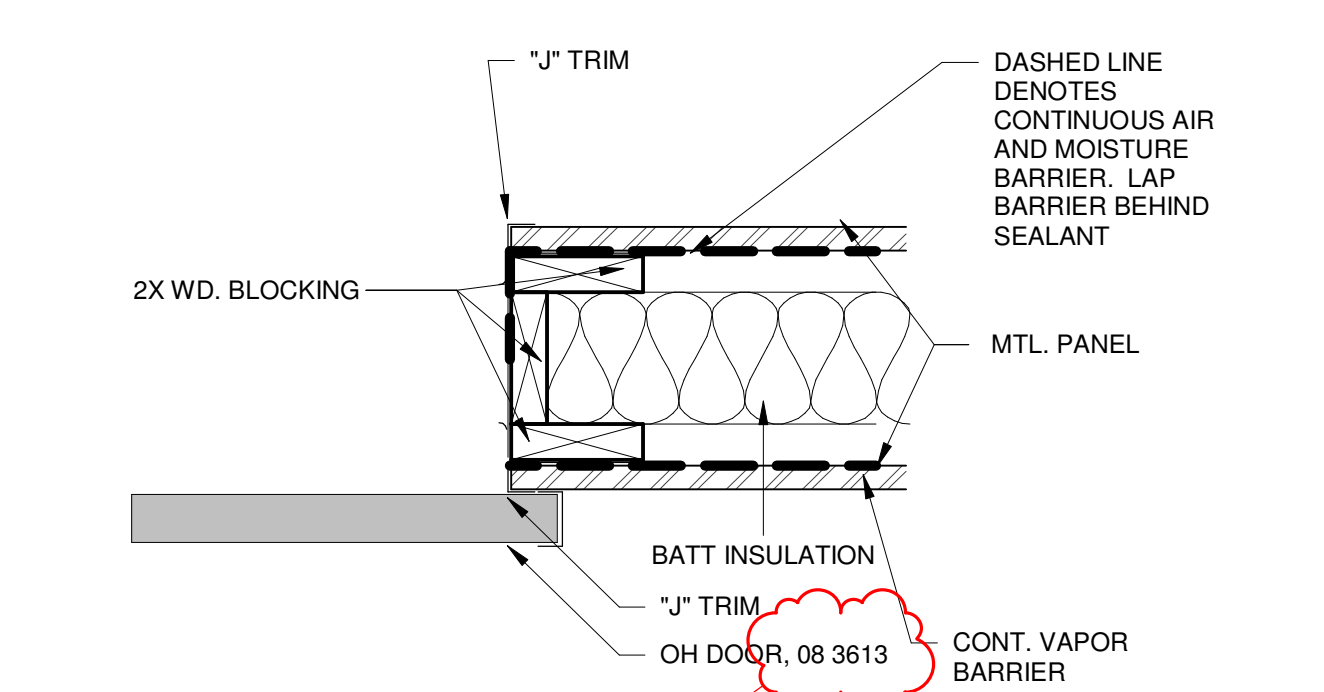
7 OH DOOR HEAD
SCALE: 1 1/2" = 1'-0"



12 WINDOW HEAD
SCALE: 1 1/2" = 1'-0"



6 DOOR JAMB
SCALE: 1 1/2" = 1'-0"



8 OH DOOR JAMB
SCALE: 1 1/2" = 1'-0"

DOOR HARDWARE SETS

REFER TO SPEC 08.7100

- HINGES 1 1/2 PR CLOSER, ENTRANCE LOCKSET, SILENCERS. 626 MATCH 626
- HINGES 1 1/2 PR CLASSROOM LOCKSET, OH STOP OR WALL STOP, SILENCERS. 626
- HINGES 1 1/2 PR OFFICE LOCKSET, WALL STOP, SILENCERS. 626
- HINGES 1 1/2 PR STOREROOM LOCKSET, OH STOP, SILENCERS. 626

ARCHITECHNICS
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OWNER:
RALLS COUNTY R-II
SCHOOL DISTRICT
21622 HIGHWAY 19
CENTER, MO 63436



RALLS COUNTY R-II SCHOOL DISTRICT
AG BUILDING ADDITION

BIDDING PHASE

NOT FOR CONSTRUCTION

ISSUE DATE: 03/05/2021

REVISIONS

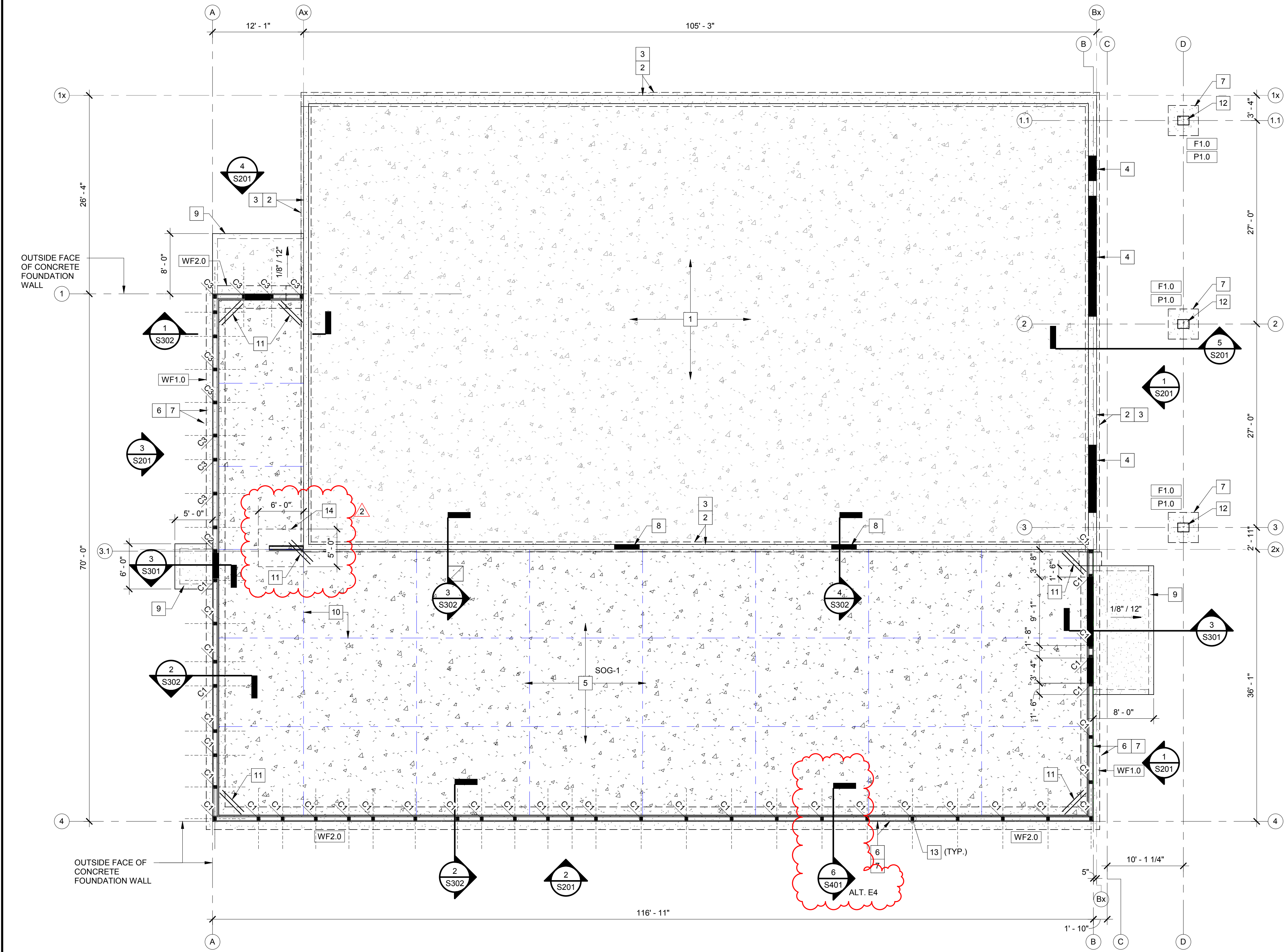
NO.	Date	Description
1	3/5/21	ADD 01
2	3/11/21	ADD 02

PROJECT NUMBER: 6036

TITLE

DWG. NO.

G000



1 MAIN LEVEL FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

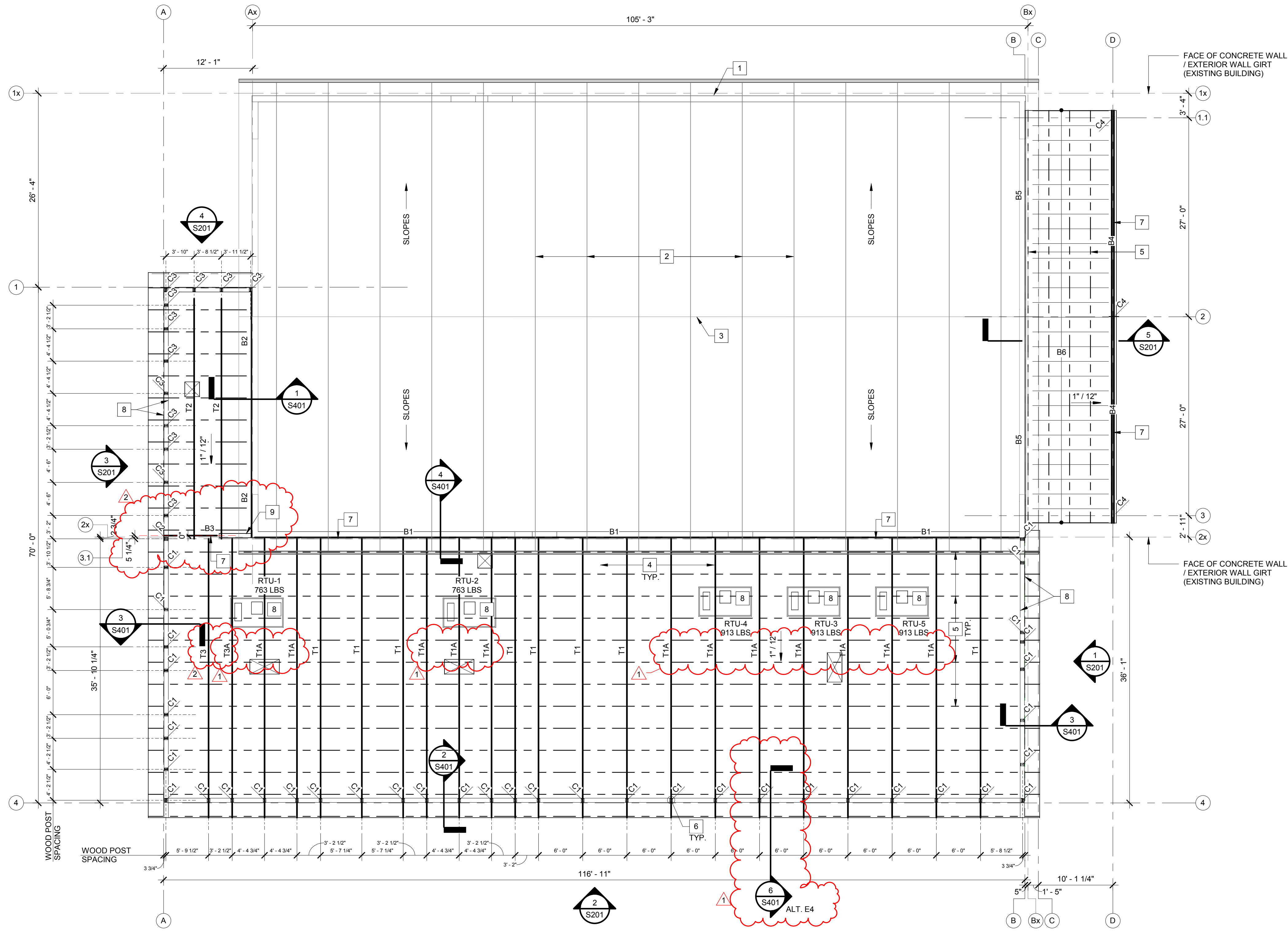
KEYED NOTES STRUCTURAL - FOUNDATION

- EXISTING 6" CONCRETE SLAB-ON-GRADE TO REMAIN.
- EXISTING CONCRETE FOUNDATION WALL.
- EXISTING CONCRETE FOOTING.
- EXISTING CONCRETE SLAB TRANSITION AT ENTRANCE.
- NEW 6" THICK CONCRETE SLAB-ON-GRADE CONSTRUCTION, SEE GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION.
- NEW CAST-IN-PLACE CONCRETE FOUNDATION WALL.
- NEW CAST-IN-PLACE CONCRETE FOOTING, SEE SCHEDULE FOR SIZE AND REINFORCING.
- NEW CONCRETE SLAB TRANSITION AT EXISTING WALL.
- NEW CAST-IN-PLACE CONCRETE STOOP SLAB AND FOUNDATION WALL.
- SLAB-ON-GRADE CONTROL / CONSTRUCTION JOINTS. SEE DETAILS FOR ADDITIONAL INFORMATION.
- (2) #4 REINFORCING BARS AT CORNER / REENTRANT CORNER. PLACE BARS AT MID-DEPTH OF SLAB-ON-GRADE.
- NEW CAST-IN-PLACE CONCRETE PIER, SEE CONCRETE DETAILS FOR ADDITIONAL INFORMATION.
- NEW LAMINATED WOOD COLUMN. FINAL SIZE TO BE PROVIDED BY FRAME BUILDING SUPPLIER (DELEGATED DESIGN).
- 12" THICKENED SLAB BELOW STUD BEARING WALL. PROVIDE BOTTOM REINFORCING BARS #4 @ 12" O.C. EA. WAY.

GENERAL NOTES

- TOP OF CONCRETE SLAB-ON-GRADE = EL. = 100'-0"
- SOG-1 - INDICATES 6" THICK CAST-IN-PLACE CONCRETE SLAB-ON-GRADE WITH (1) LAYER OF 6x6 W2-1W2-1 W.W.F. LOCATED AT MID-DEPTH OF THE SLAB. SEE DETAILS FOR VAPOR BARRIER AND COMPACTED FILL REQUIREMENTS.
- FX-0 - INDICATES CAST-IN-PLACE CONCRETE PIER, SEE DETAILS AND SCHEDULE FOR ADDITIONAL INFORMATION.
- FX-0 - INDICATES CAST-IN-PLACE CONCRETE SPREAD FOOTING, SEE SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.
- WFX-0 - INDICATES CAST-IN-PLACE CONCRETE WALL FOOTING, SEE SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.
- ALT E4 - WALL FRAMING TO BE 2x6 (GR. NO. 1) @ 24" O.C. TYPICAL. PROVIDE SINGLE SILL PLATE AND DOUBLE TOP PLATE FOR TRUSS AND/OR RAKE FRAMING.

REVISIONS		
NO.	Date	Description
1	3/9/21	ADD 01
2	3/31/21	ADD 02



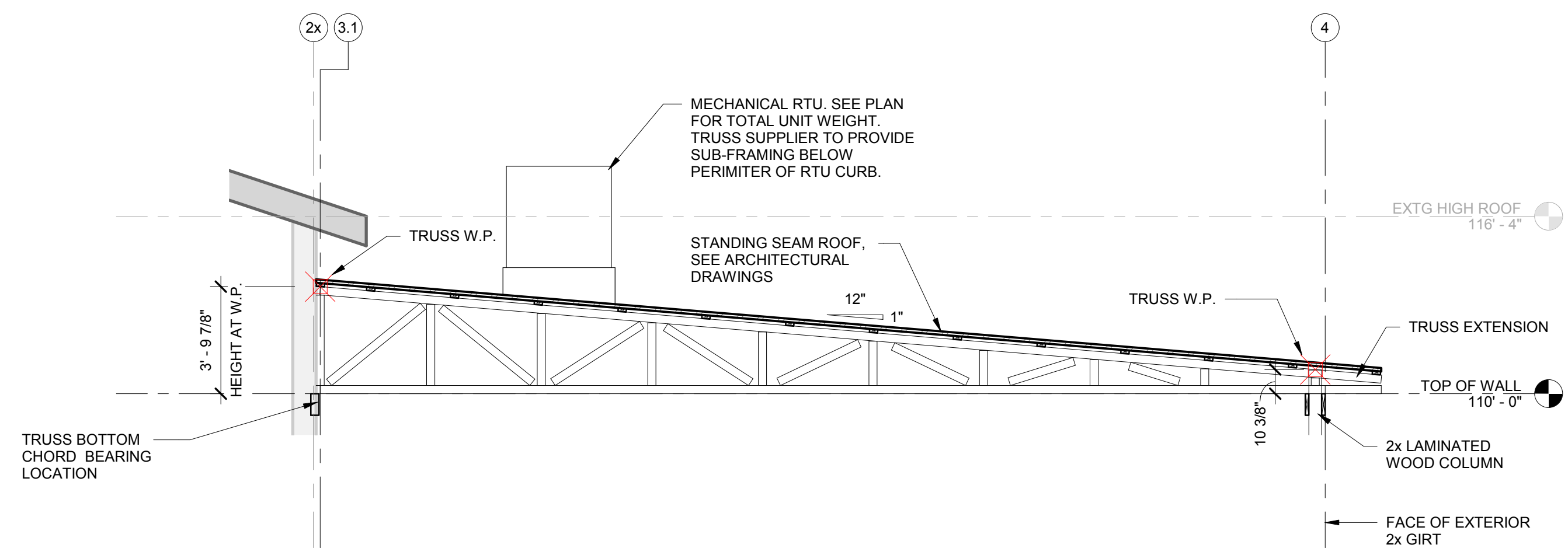
1 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

KEYED NOTES STRUCTURAL - FRAMING

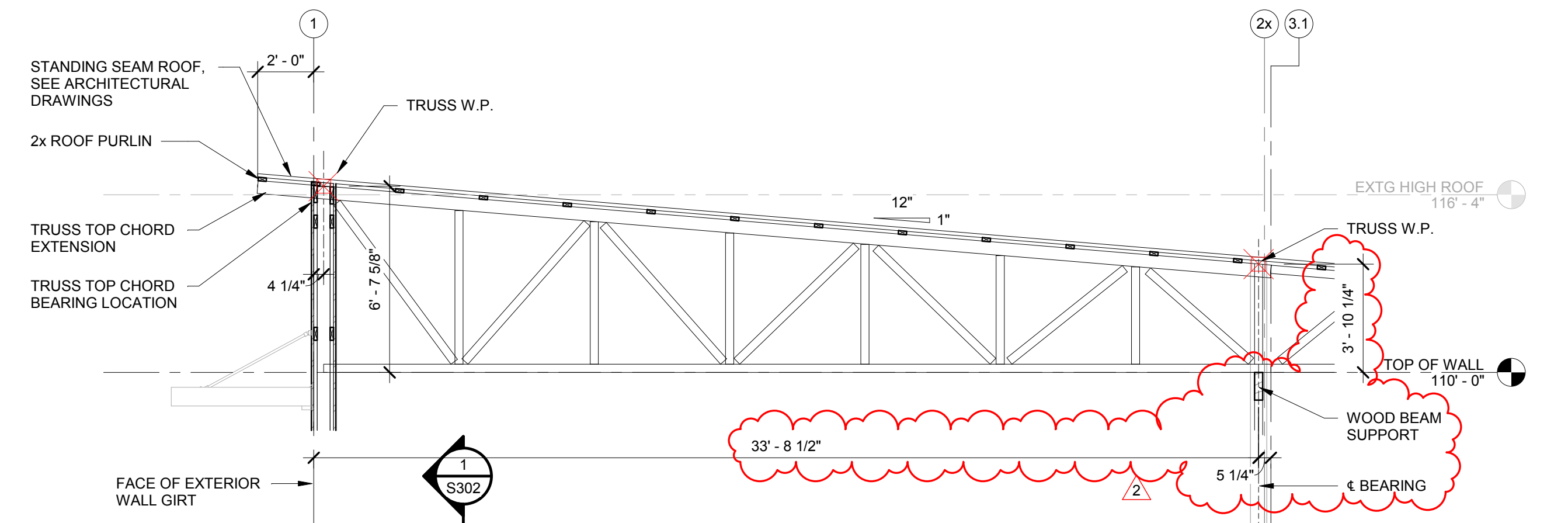
- EXISTING FRAME BUILDING STRUCTURE TO REMAIN.
- EXISTING METAL PLATE CONNECTED WOOD TRUSSES TO REMAIN.
- EXISTING ROOF RIDGE.
- NEW METAL PLATE CONNECTED WOOD TRUSSES. SEE PLAN FOR SPACING. SEE DETAILS FOR LOADING CONDITIONS.
- NEW 2x PURLIN FRAMING AT 3'-0" O.C. MAX. SPACING.
- NEW 2x LAMINATED WOOD COLUMN. FINAL DESIGN AND LOCATIONS TO BE PROVIDED BY FRAME BUILDING SUPPLIER (DELEGATED DESIGN).
- NEW WOOD BEAM FRAMING. SEE SCHEDULE FOR SIZE. ATTACHEMENT AND ADDITIONAL INFORMATION.
- NEW 2x RAKE FRAMING.
- NEW 2x STUD BEARING WALL BELOW.

GENERAL NOTES

- TX - INDICATES METAL PLATE CONNECTED WOOD TRUSS SPACED AS INDICATED ON FRAMING PLAN. TRUSS DESIGN IS A DELEGATED DESIGN BY OTHERS. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CX - INDICATES LAMINATED DIMENSIONAL COLUMN. FINAL SIZE BY FRAME BUILDING SUPPLIER.
- Bx - INDICATES WOOD BEAM. SEE SCHEDULE FOR SIZE AND ADDITIONAL INFORMATION.
- ALT E4: WALL FRAMING TO BE 2x6 (GR. NO. 1) @ 24" O.C. TYPICAL. PROVIDE SINGLE SILL PLATE AND DOUBLE TOP PLATE FOR TRUSS AND/OR RAKE FRAMING.



2 TRUSS ELEVATION - TYPE T1
SCALE: 1/4" = 1'-0"



3 TRUSS ELEVATION - TYPE T2
SCALE: 1/4" = 1'-0"

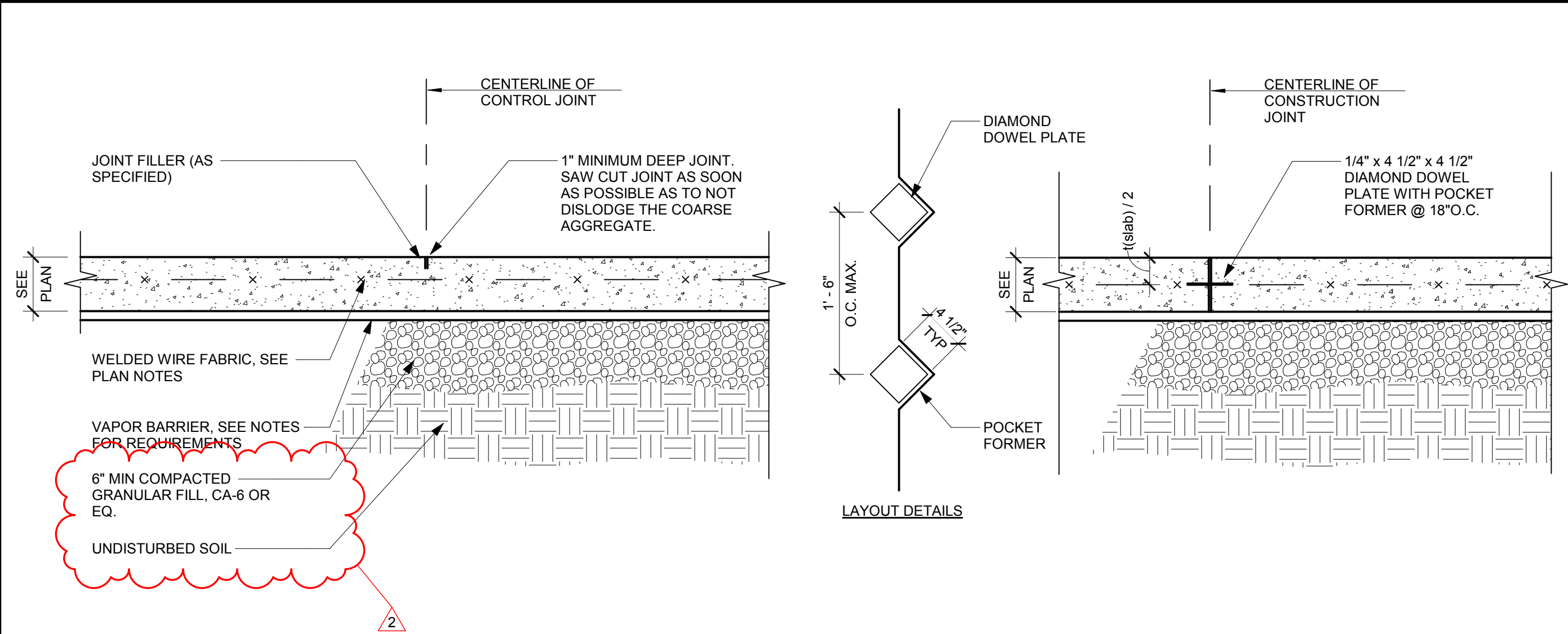
TRUSS LOADING SCHEDULE

TRUSS DESIGNATION	BOT. CHORD DL	BOT. CHORD LL	TOP CHORD DL	TOP CHORD RLL	TOP CHORD SL	TOP CHORD WL (+/-)	REMARKS
T1	8 PSF	--	10 PSF	20 PSF	20 PSF	**	SEE PLAN FOR TRUSS SPACING
T1A	8 PSF	--	10 PSF	20 PSF	20 PSF	**	SEE PLAN FOR TRUSS SPACING. SEE PLAN FOR MECHANICAL LOADING
T2	8 PSF	--	10 PSF	20 PSF	20 PSF	**	SEE PLAN FOR TRUSS SPACING

NOTES:

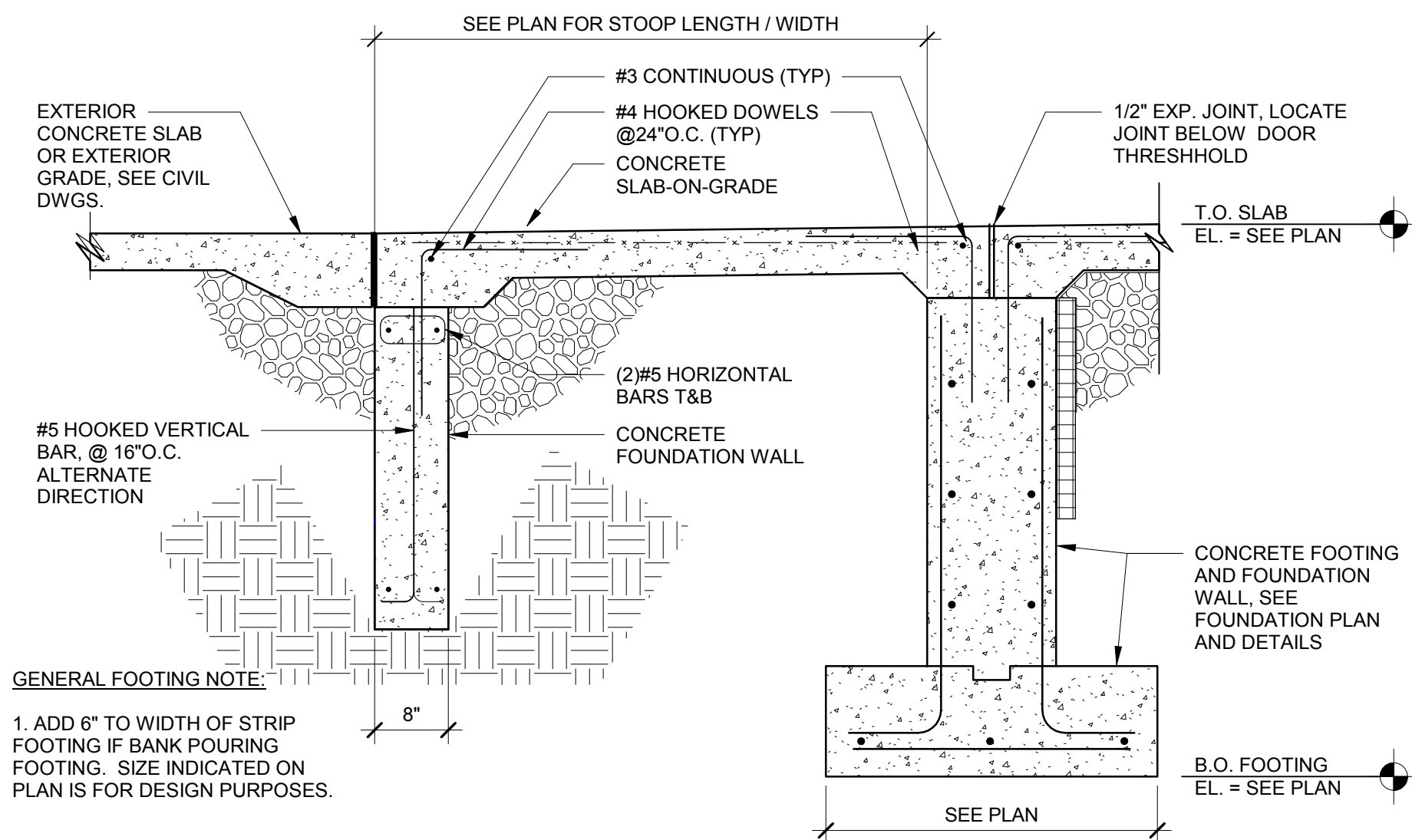
- * - INDICATES TRUSS SELFWEIGHT NOT INCLUDED IN APPLIED DEAD LOAD. TRUSS SELFWEIGHT SHALL BE ACCOUNTED FOR BY TRUSS DESIGNER.
- ** - INDICATES APPLIED COMPONENT WIND LOAD. SEE WIND LOAD DIAGRAMS AND SCHEDULE FOR ADDITIONAL INFORMATION.
- SEE PLAN FOR TRUSS SPACING.

4 ROOF TRUSS LOADING SCHEDULE
SCALE: 12" = 1'-0"



1 TYPICAL SLAB-ON-GRADE DETAIL
SCALE: 1" = 1'-0"

2 TYPICAL SLAB-ON-GRADE DETAIL
SCALE: 1" = 1'-0"

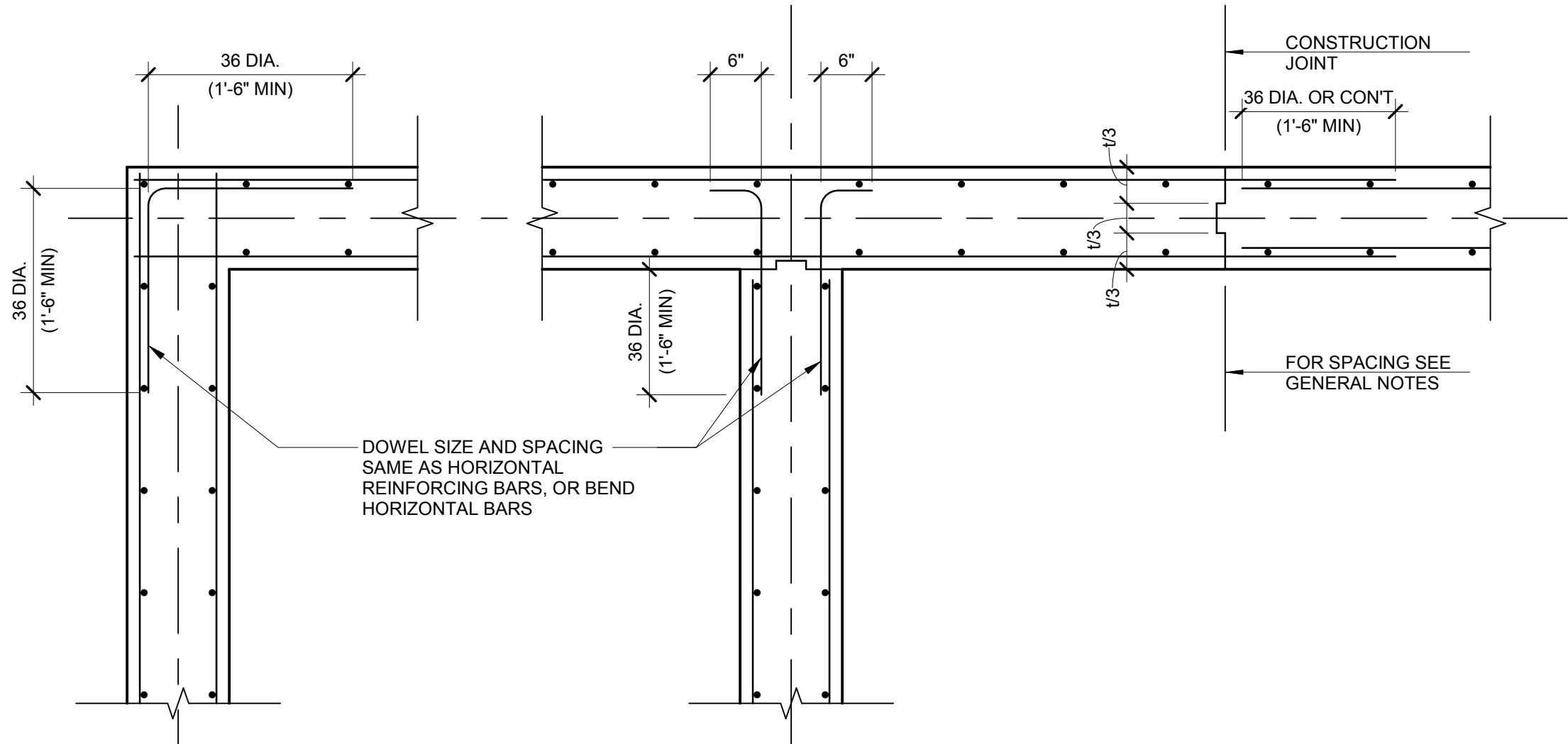


3 CONCRETE STOOP FOUNDATION
SCALE: 3/4" = 1'-0"

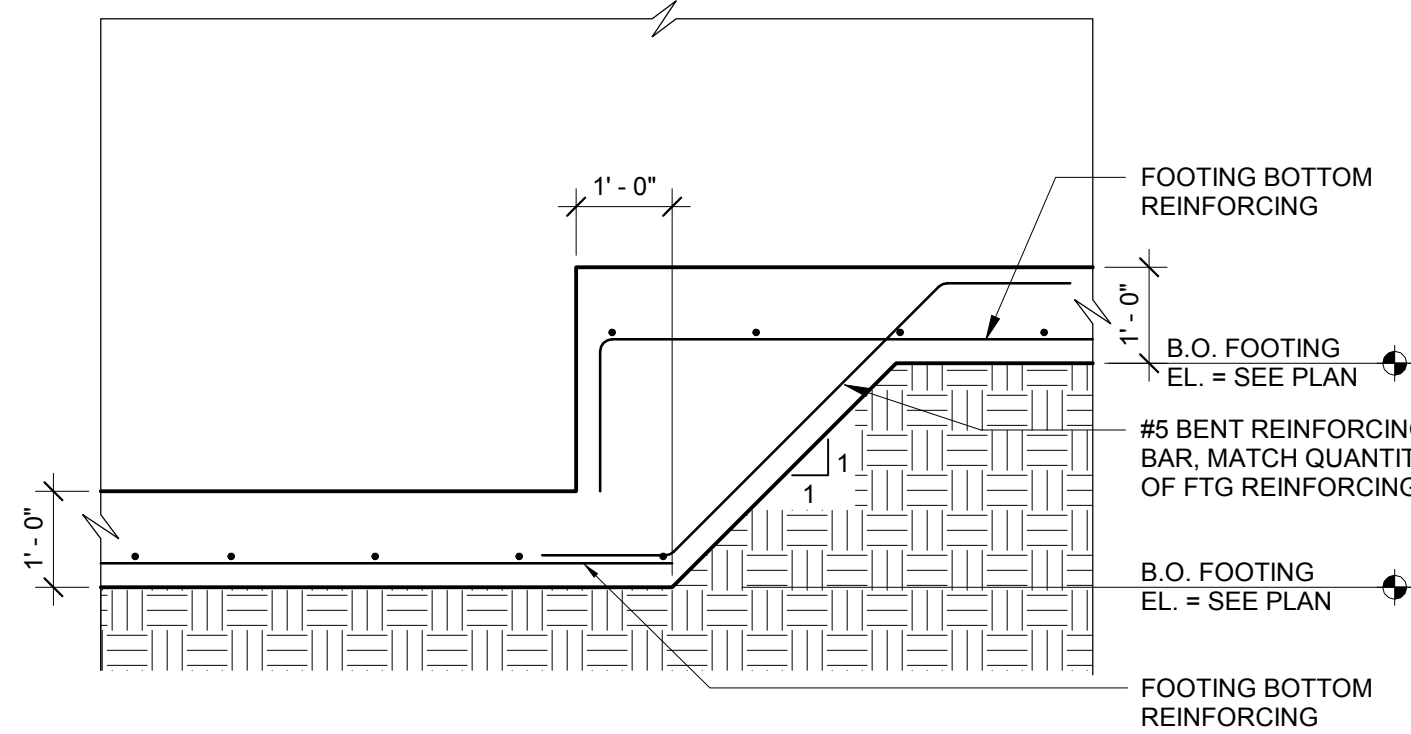
FOOTING SCHEDULE						ISOLATED FTGS. $f_{bearing} = 1,500 \text{ psf}$
FOOTING MARK	WIDTH - W (FT)	LENGTH - L (FT)	THICKNESS (FT)	BOTTOM REINFORCING	TOP REINFORCING	WALL FTGS. $f_{bearing} = 1,200 \text{ psf}$
WF-1E	1'-4"	-	0'-10"		-	EXISTING FOOTING, V.I.F.
WF-2E	1'-10 1/2"	-	1'-0"		-	EXISTING FOOTING, V.I.F.
WF-1	2'-6"	-	1'-0"	(4)#5 CONT (LONG.) #5 @ 12" O.C. (TRANS.)	-	
WF-2	3'-6"	-	1'-0"	(4)#5 CONT (LONG.) #5 @ 12" O.C. (TRANS.)	-	
F4.0	4'-0"	4'-0"	1'-0"	(5)#5x3'-6" EA. WAY	-	
F5.0	5'-0"	5'-0"	1'-0"	(6)#5x4'-6" EA. WAY	-	

GENERAL FOOTING NOTES:
1. ADD 6" TO WIDTH AND LENGTH OF FOOTING IF BANK POURING FOOTING. SIZE INDICATED ABOVE IS FOR DESIGN PURPOSES.
2. BOTTOM OF FOOTING ELEVATIONS NOTED ABOVE ARE UNLESS OTHERWISE NOTED ON FOUNDATION PLANS OR DETAILS.

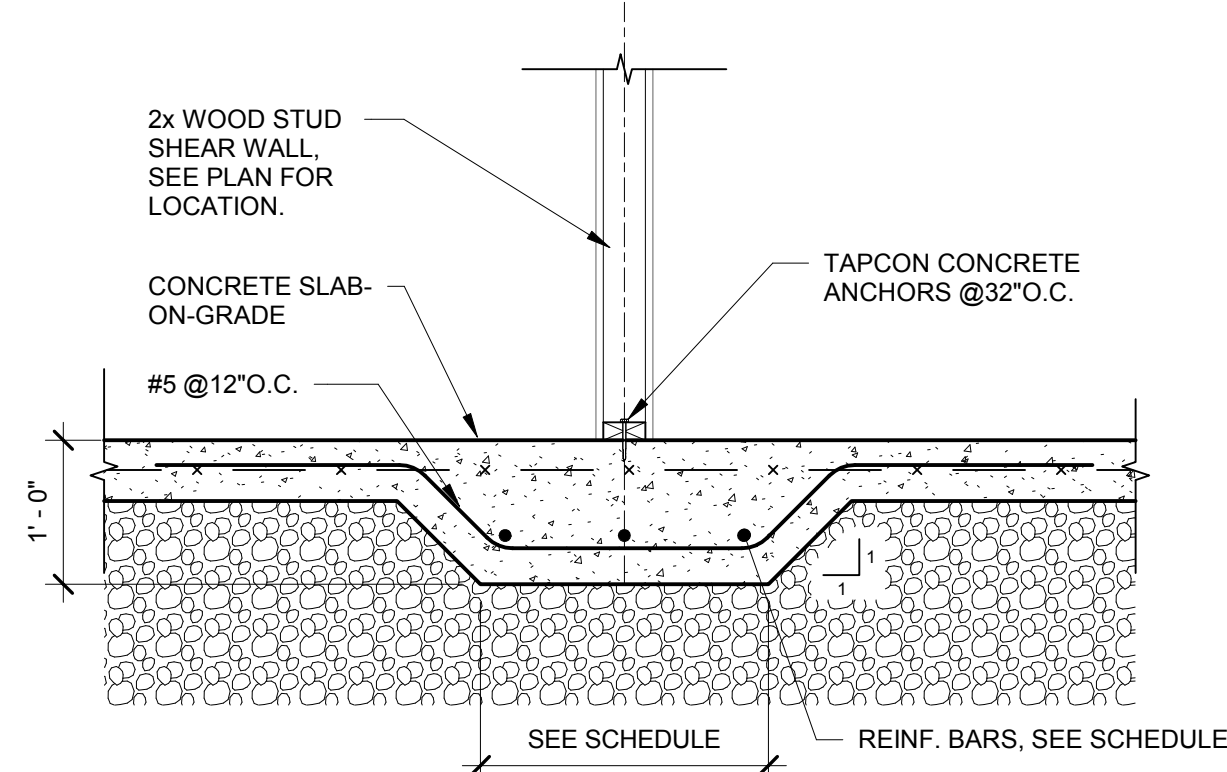
4 FOOTING SCHEDULE
SCALE: 1" = 1'-0"



5 TYP. CONC. WALL CORNER, INTERSECTION AND CONSTRUCTION JOINT DETAILS
SCALE: 3/4" = 1'-0"

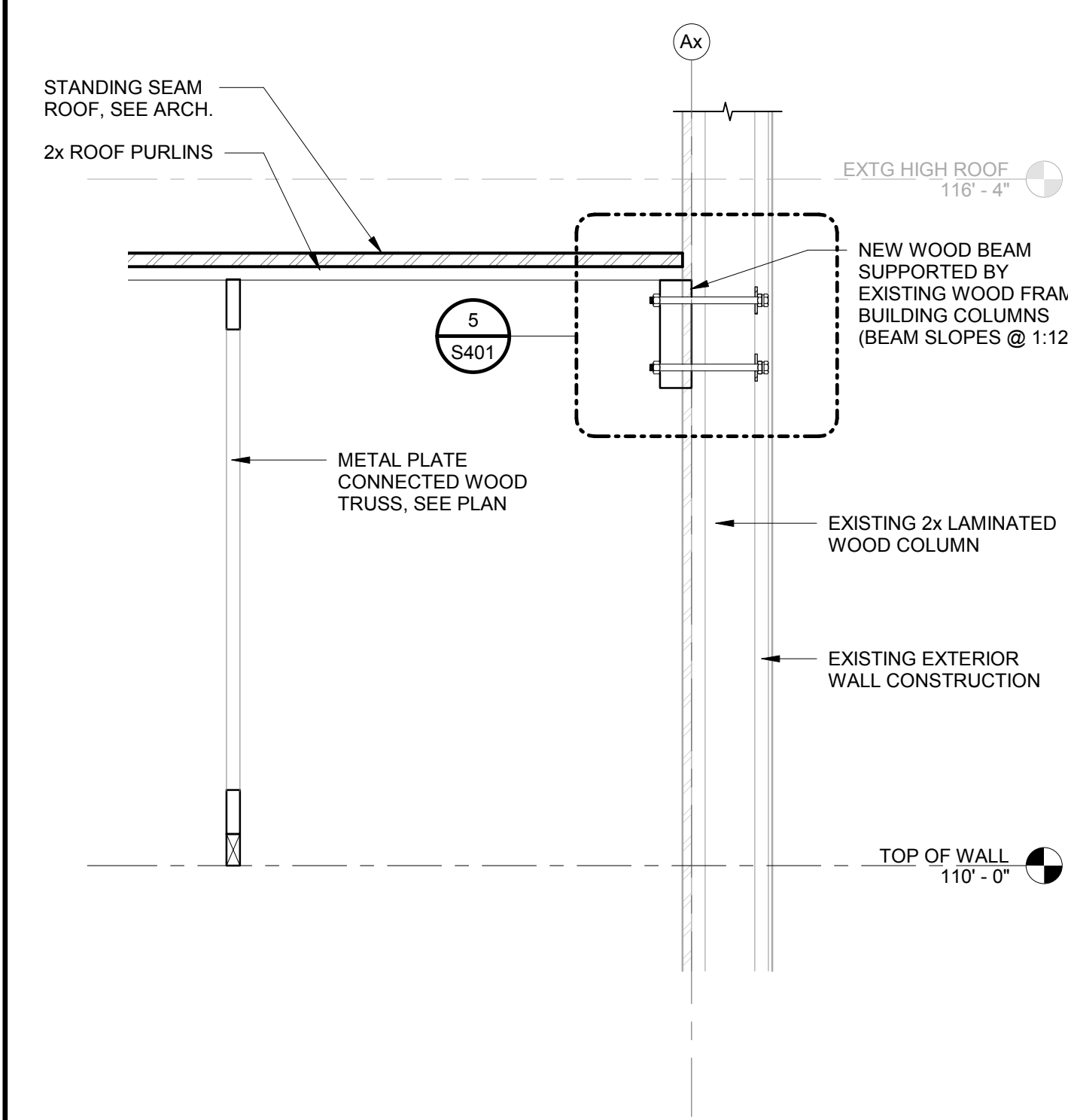


6 STEPPED FOOTING DETAIL
SCALE: 1/2" = 1'-0"

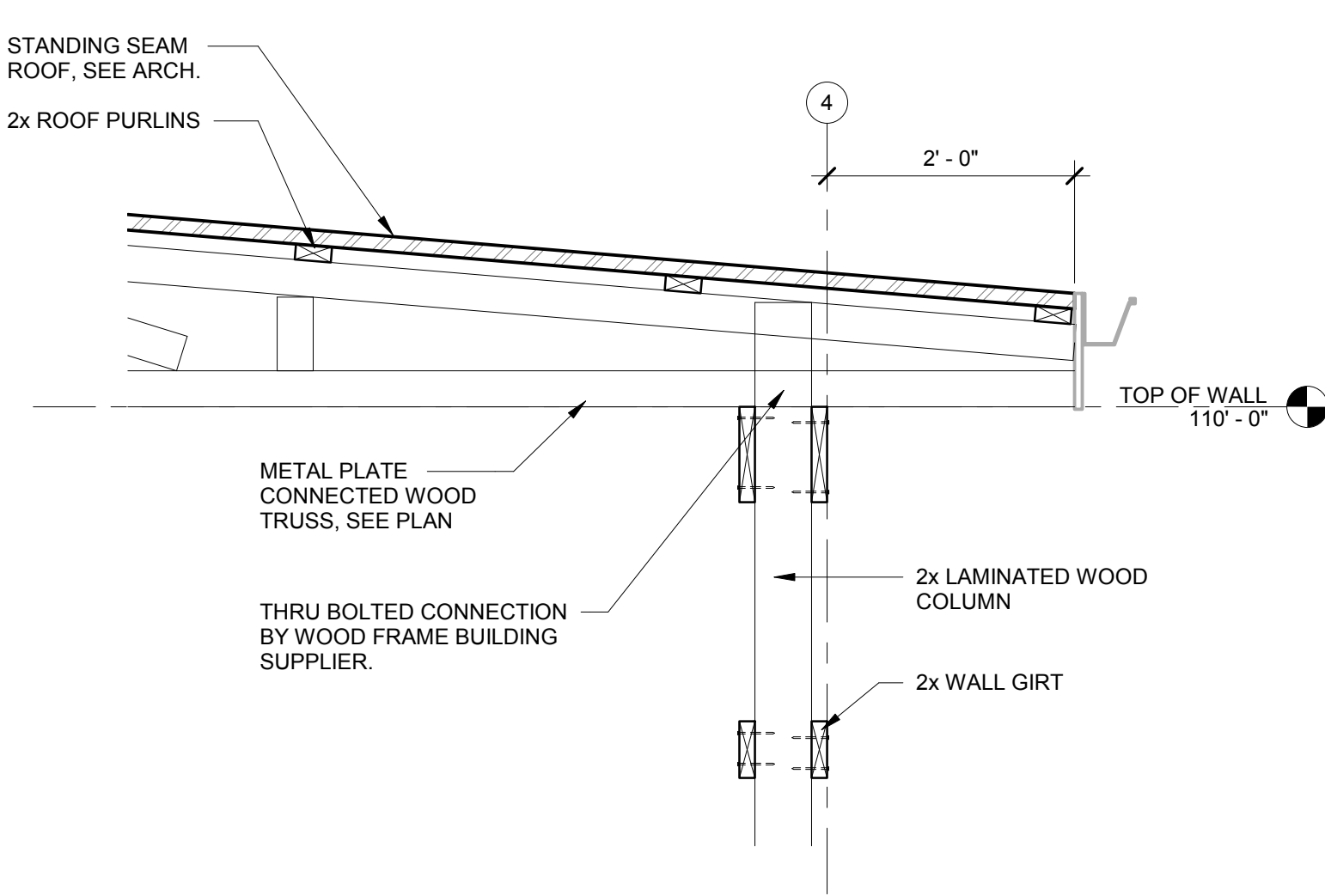


7 INTERIOR THICKENED SLAB DETAIL
SCALE: 3/4" = 1'-0"

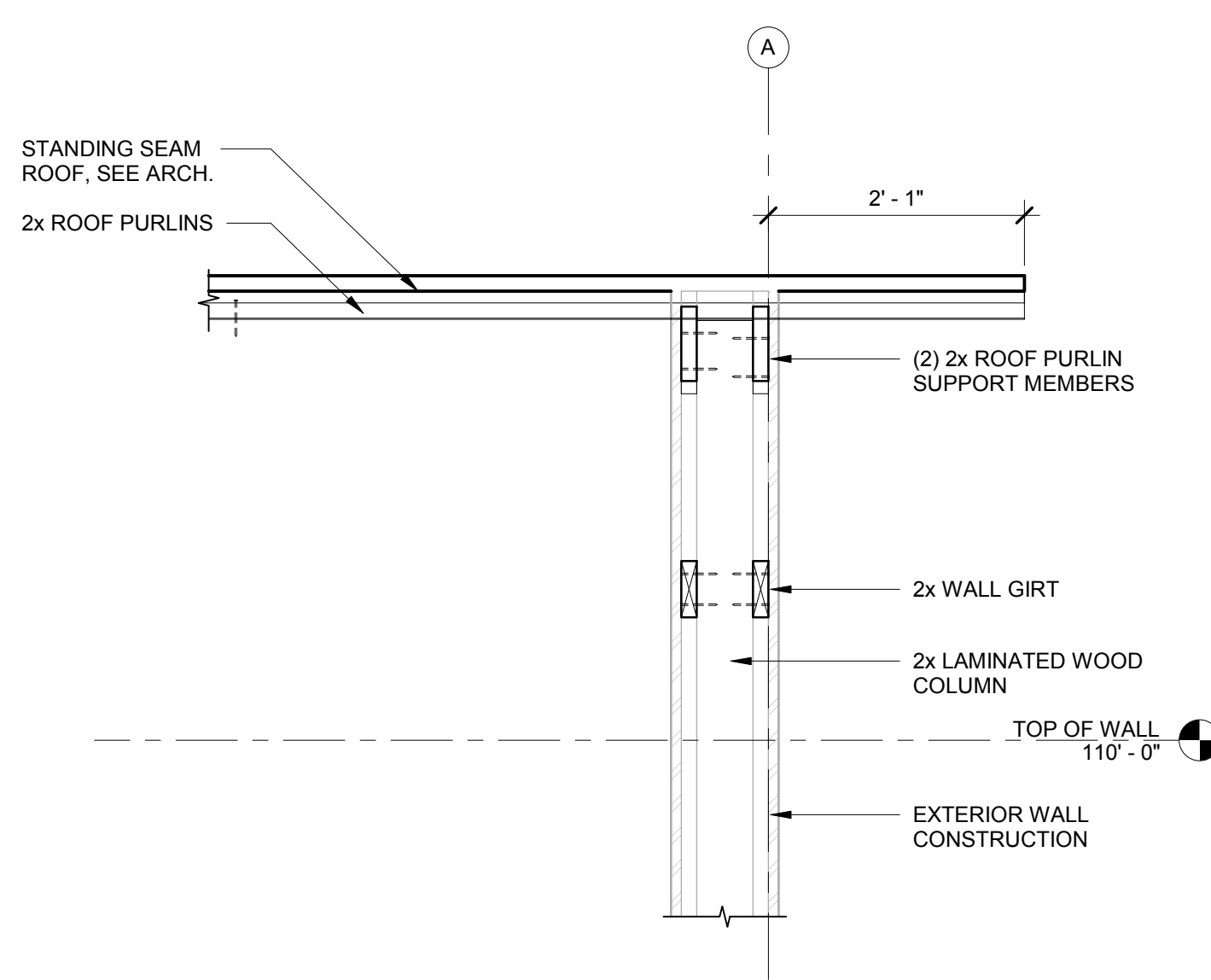
REVISIONS		
NO.	Date	Description
2	3/3/21	ADD 02



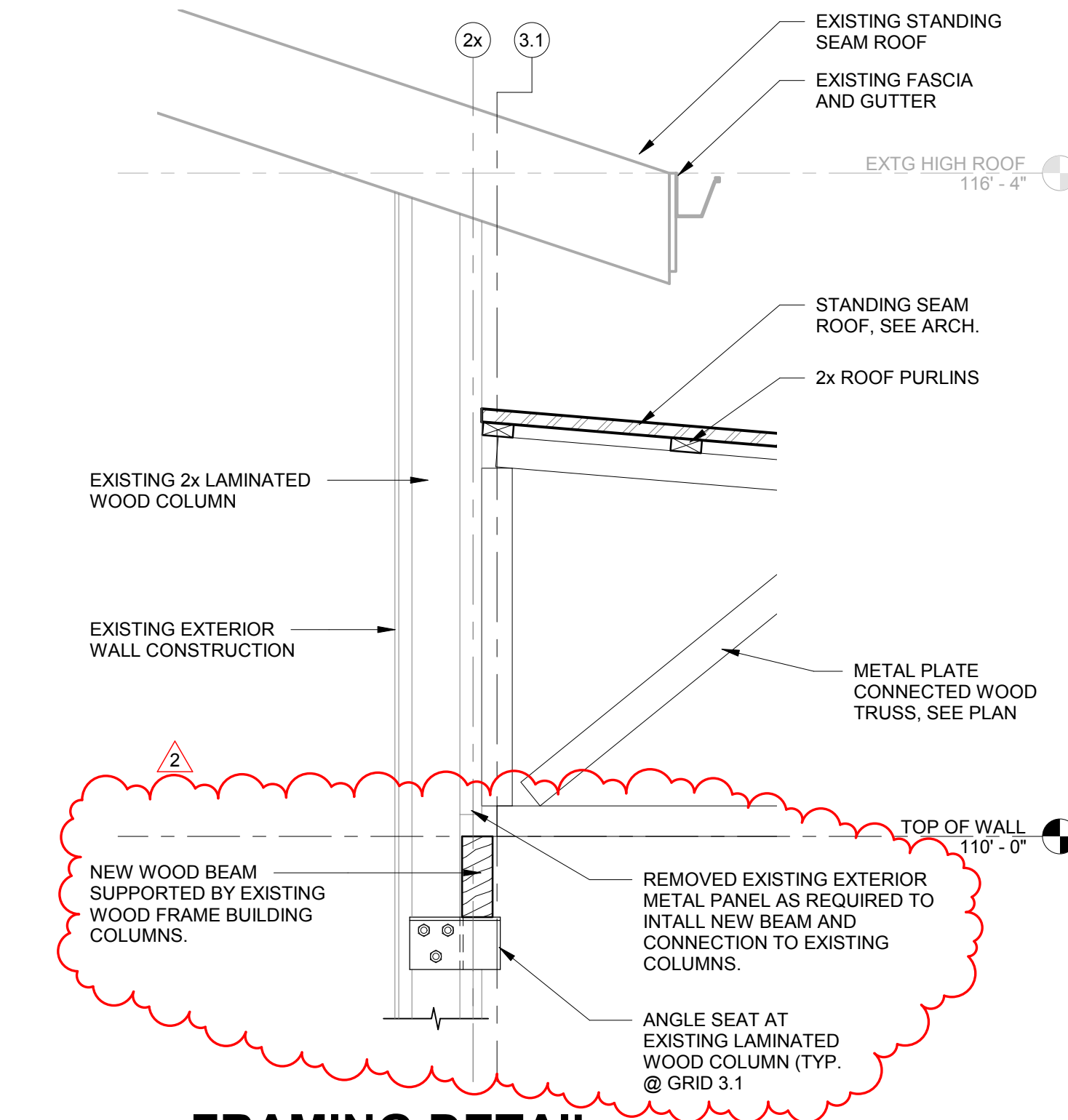
1 FRAMING DETAIL
SCALE: 3/4" = 1'-0"



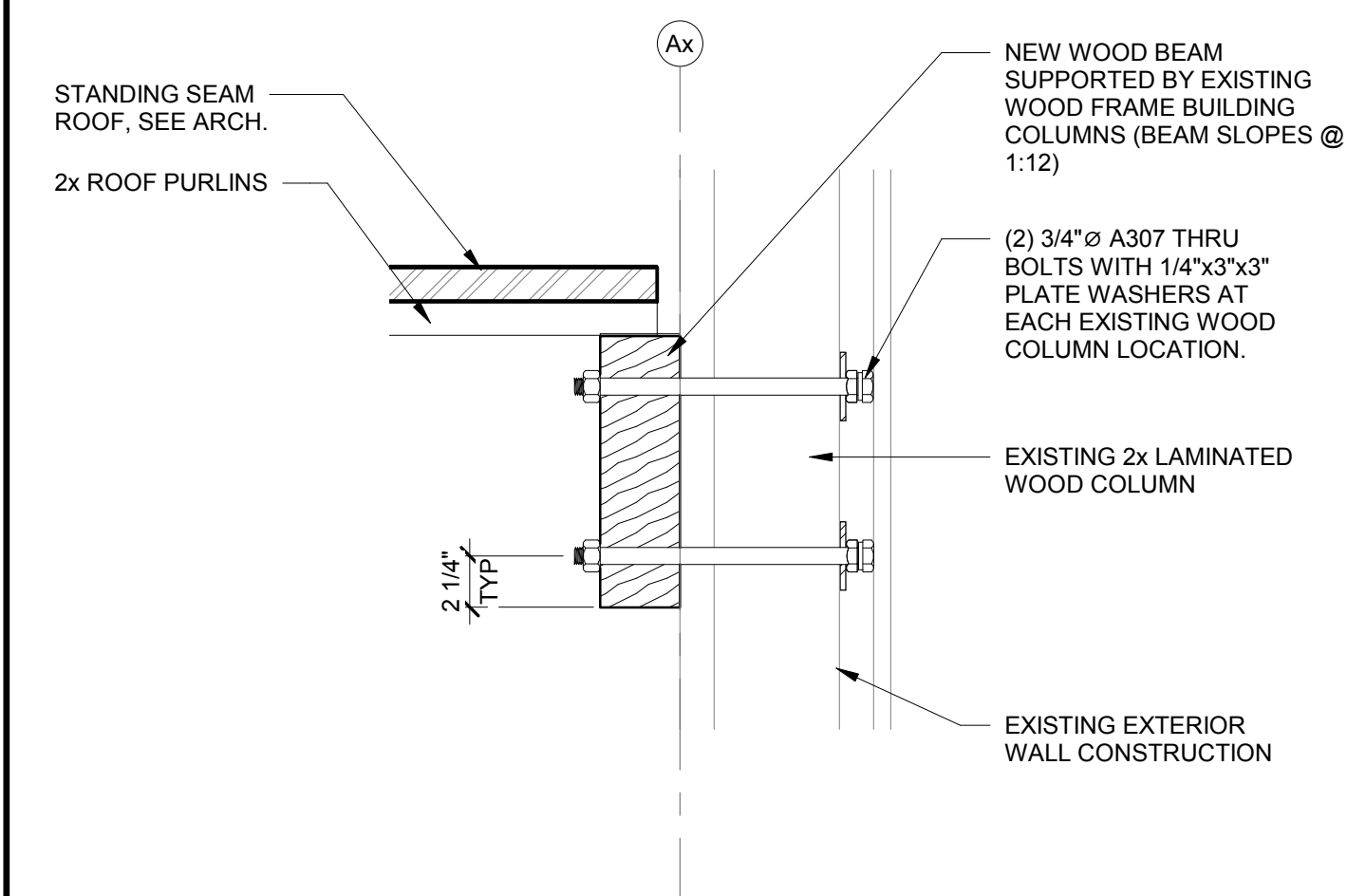
2 FRAMING DETAIL
SCALE: 3/4" = 1'-0"



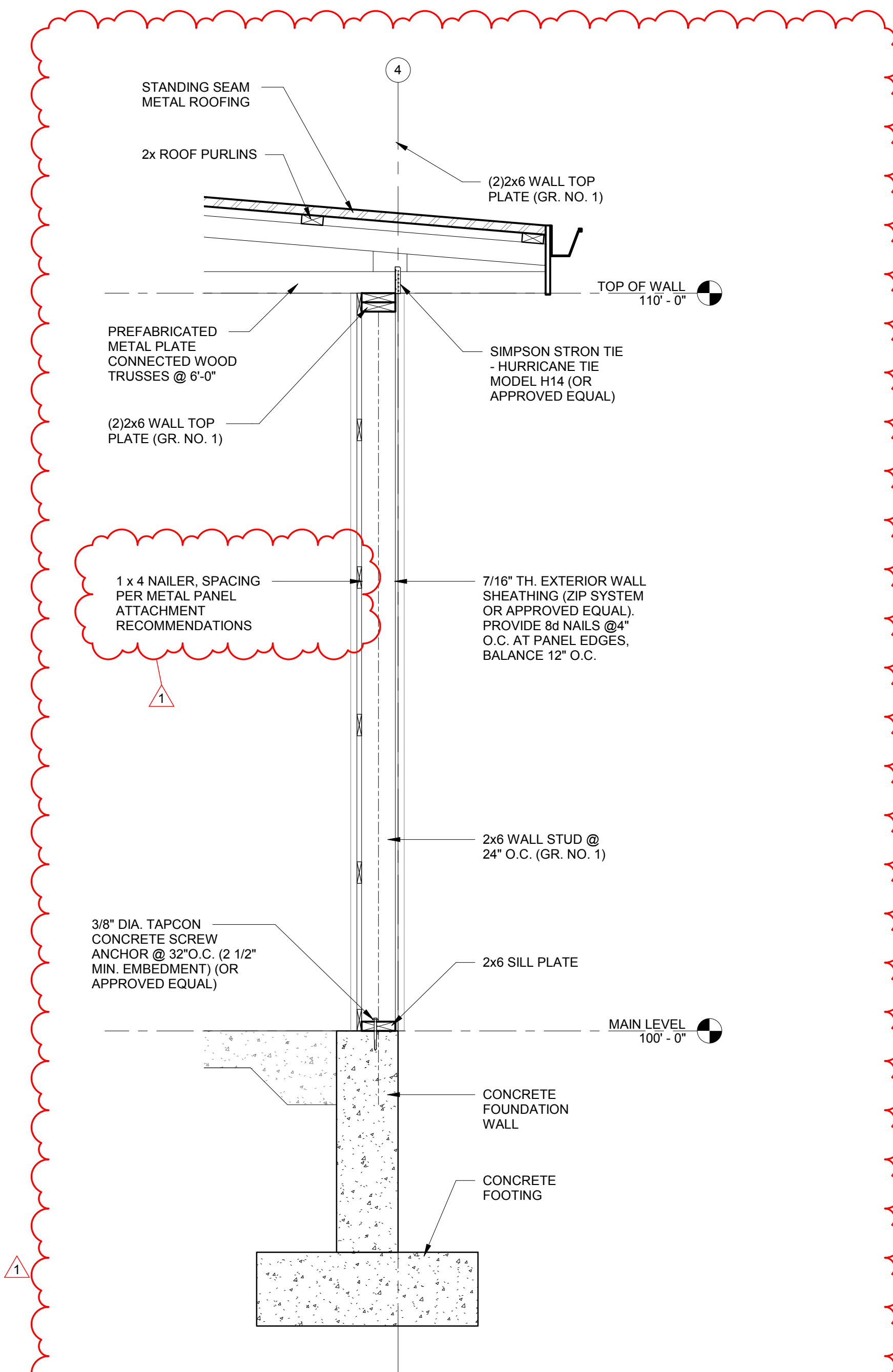
3 FRAMING DETAIL
SCALE: 3/4" = 1'-0"



4 FRAMING DETAIL
SCALE: 3/4" = 1'-0"



5 WOOD BEAM CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



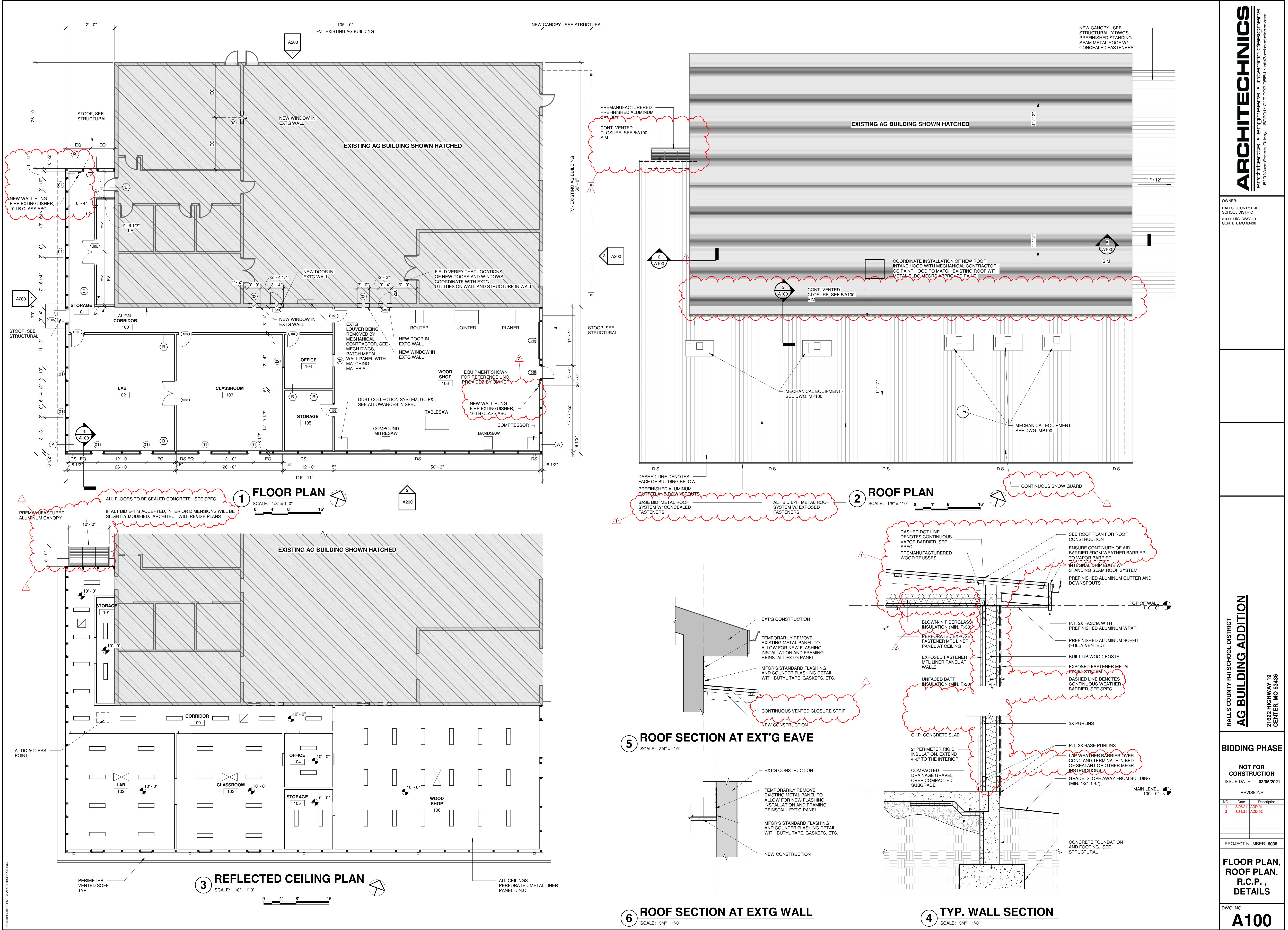
6 WALL FRAMING DETAIL - ALTERNATE BID E-4
SCALE: 3/4" = 1'-0"

BEAM SCHEDULE						
MARK	MATERIAL	SIZE	SUPPORT	BEARING LENGTH (MIN)	MECHANICAL CONNECTOR	REMARKS
B1	PSL 2.0E	3 1/2" x 9 1/4"	EXISTING LAMINATED WOOD COLUMN @6'-0" V.I.F.	3.5"	ANGLE BRACKET SEE DETAIL XXX	BEAM IS CONTINUOUS, COORDINATE FIELD SPLICE LOCATIONS
B2	SP NO. 2 OR BETTER	(2) 2x10	EXISTING LAMINATED WOOD COLUMN @6'-0" V.I.F.	--	(2) 3/4" A307 THRU-BOLT @ EACH COLUMN	BEAM IS CONTINUOUS, COORDINATE FIELD SPLICE LOCATIONS, BEAM SLOPES WITH ROOF 1:12
B3	PSL 2.0E	3 1/2" x 11 1/4"	STUD WALL	3.5"	(3) 10d TOE NAIL	--
B4	PSL 2.0E *	(2) 3 1/2 x 16"	PSL COLUMN	5.5"	STEEL COLUMN CAP	--
B5	SP NO. 2 OR BETTER *	(2) 2x10	--	--	(2) 3/4" A307 THRU-BOLT @ EACH COLUMN	BEAM IS CONTINUOUS, COORDINATE FIELD SPLICE LOCATIONS.
B6	SP NO. 2 OR BETTER *	2x8 @ 16"O.C.	B4 & B5	1.5"	LRU28Z	FACE FASTENERS: (8) 10d x 1.5 JOIST FASTENERS: (8) 10d

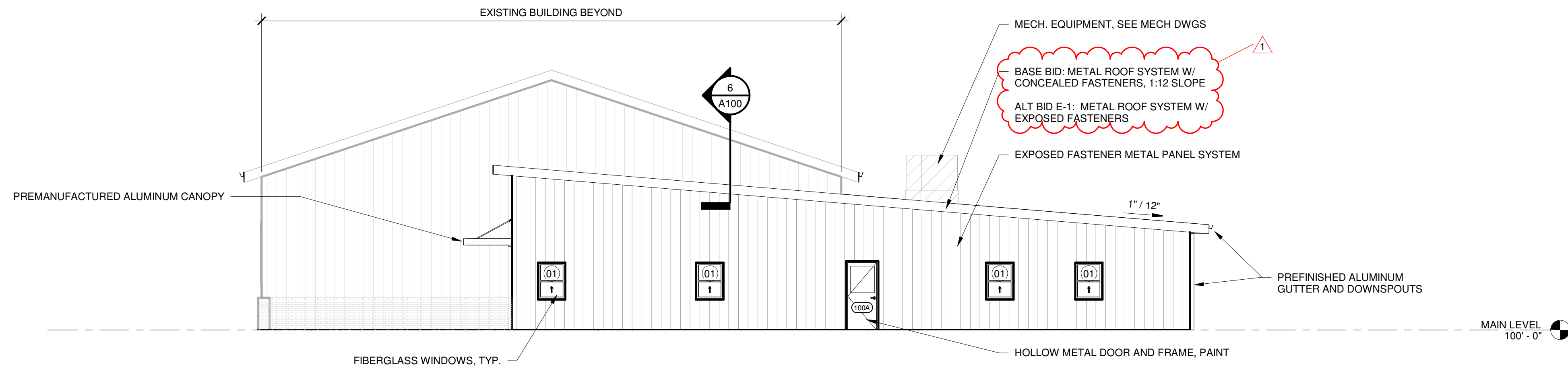
NOTES:

1. BASIS OF DESIGN FOR ENGINEERED LUMBER: WEYERHAEUSER PARALLAM PSL 2.0E
2. * - INDICATES LUMBER TO BE PRESERVATIVE TREATED FOR EXTERIOR USE.

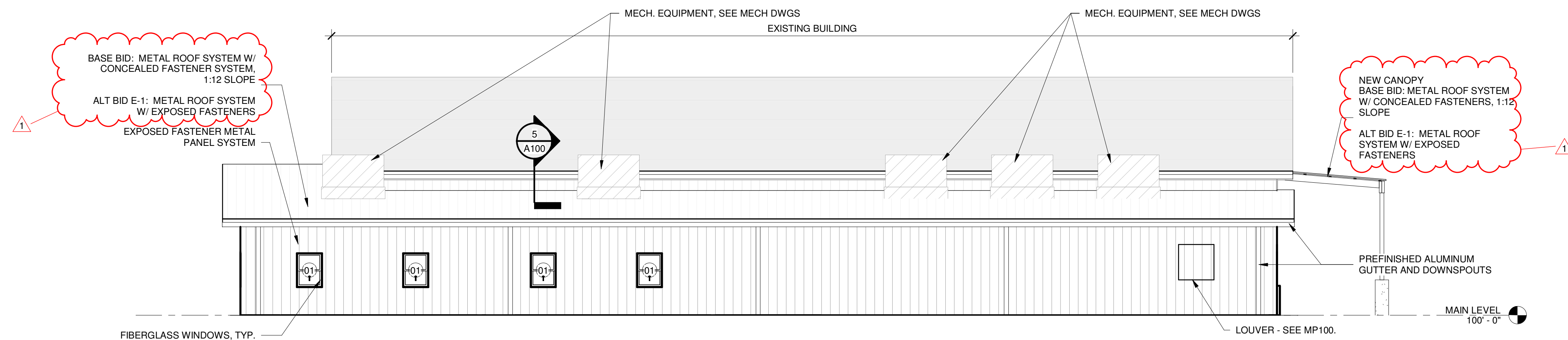
7 BEAM SCHEDULE
SCALE: 12" = 1'-0"



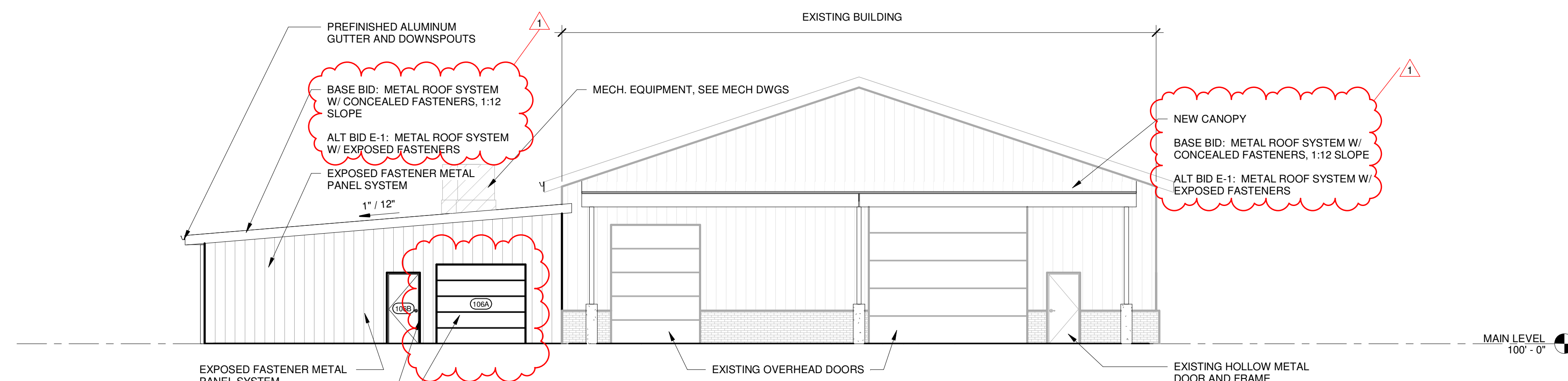
REVISIONS		
NO.	Date	Description
1	3/5/21	ADD 01
2	3/31/21	ADD 02



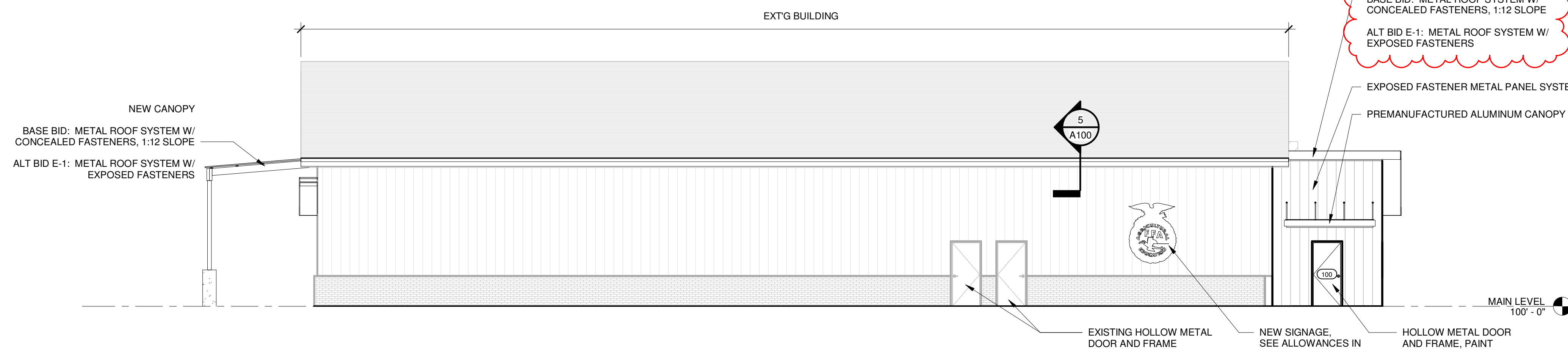
1 WEST ELEVATION
SCALE: 1/8" = 1'-0"



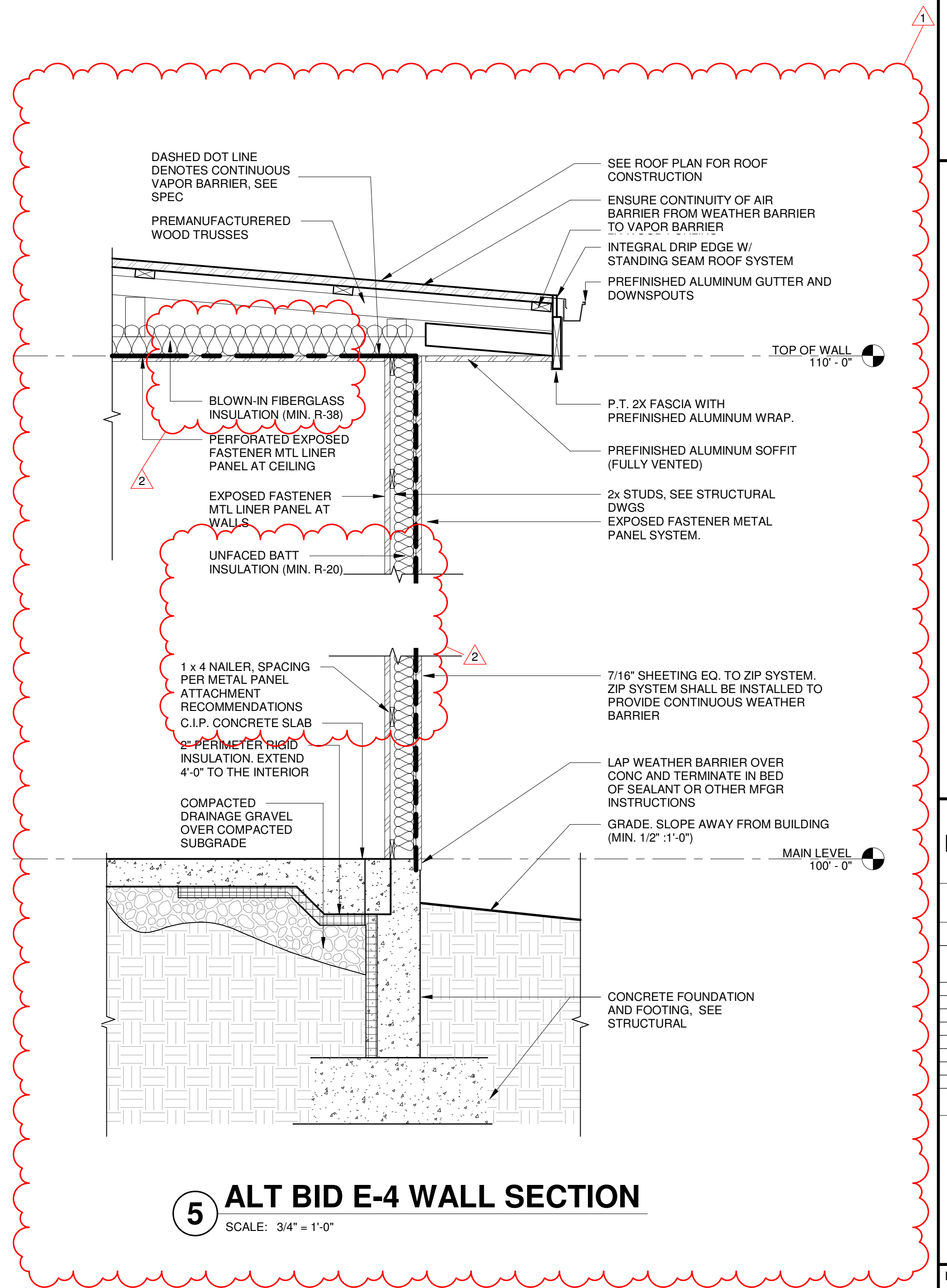
2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



3 EAST ELEVATION
SCALE: 1/8" = 1'-0"



4 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



5 ALT BID E-4 WALL SECTION
SCALE: 3/4" = 1'-0"

REVISIONS		
NO.	Date	Description
1	3/5/21	ADD 01
2	3/11/21	ADD 02