

El Monte Cart Shed



PLAN SHEETS

- 0 : COVER _ COVER SHEET
- 1 : DEMO _ DEMOLITION
- 2 : UTIL _ UTILITIES
- 3 : WALL 1 _ WALL PLAN
- 4 : WALL 2 _ WALL PROFILES
- 5 : GRADE _ GRADING
- 6 : X-SEC 1 _ CROSS SECTIONS
- 7 : X-SEC 2 _ CROSS SECTIONS
- 8 : X-SEC 3 _ CROSS SECTIONS
- 9 : X-SEC 4 _ CROSS SECTIONS
- 10 : X-SEC 5 _ CROSS SECTIONS
- 11 : B-PAD _ BUILDING PAD
- 12 : FOUND _ FOUNDATION LAYOUT
- 13 : FD-1 _ FOUNDATION DETAILS
- 14 : FD-2 _ FOUNDATION ELEVATIONS
- 15 : CONST 1 _ SURFACE IMPROVEMENTS
- 16 : CONST 2 _ MINOR ASPHALT WORK
- 17 : LAND _ LANDSCAPING

Project Location

El Monte Golf Course
1300 Valley Dr, Ogden, UT, 84401

COVER

SHEETS

17

0

PAGE

REV	DATE	DESCRIPTION
0	MM/DD/YY	DESCRIPTION

Daniel Gillies

PROFESSIONAL ENGINEER

NO. 403694-2002

EXP. 12/31/2025

CIVIL

STATE OF UTAH

DESIGNED

DSG

DRAWN

DSG

CHECKED

DSG

DATE

10/6/25

DRAWING SCALE

H: N/A

V: N/A

(22x34)

(11x17)

(22x34)

(11x17)

This bar measures exactly one inch on the original drawing

COVER SHEET

EL MONTE MAINTENANCE SHED

EL MONTE GOLF COURSE

Ogden

UTAH

Still Untamed™

2549 Washington Blvd, Suite 760 Ogden, UT 84401

Phone: 801-629-8980 engineering.ogdenutah.com

DRAWING NAME: El Monte - MAINTENANCE SHED

FINAL/PERMITS/ISSUED/REVISED

12:14 PM

DEMOLITION ITEMS

i Information	4 Relocate Gas Pump/Remove Bollards/Concrete & Items Associated w/Pump		
1 Demolish Structure	5 Lower/Raise*/Collar LDMH	8 Grub Sod	11 Salvage Rock
2 Remove Concrete Flatwork	6 Remove Asphalt	9 Clear & Grub (Shrub/Cover/Trees)	
3 Remove Concrete Flatwork (Bldg)	7 Remove Fencing	10 Remove Wooden Wall	

[illegible]

PROFESSIONAL ENGINEER
 Daniel Gillies
 State of Utah
 License No. 4930684-2202
 CIVIL
 EXPIRES 12/23/2025
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF UTAH

DESIGNED	DSG	DATE
DRAWN	DSG	10/6/25
CHECKED		

DRAWING SCALE

H: 1" = 10' (22x34) (11x17)

V: N/A (22x34) (11x17)

This bar measures exactly one inch on the original drawing

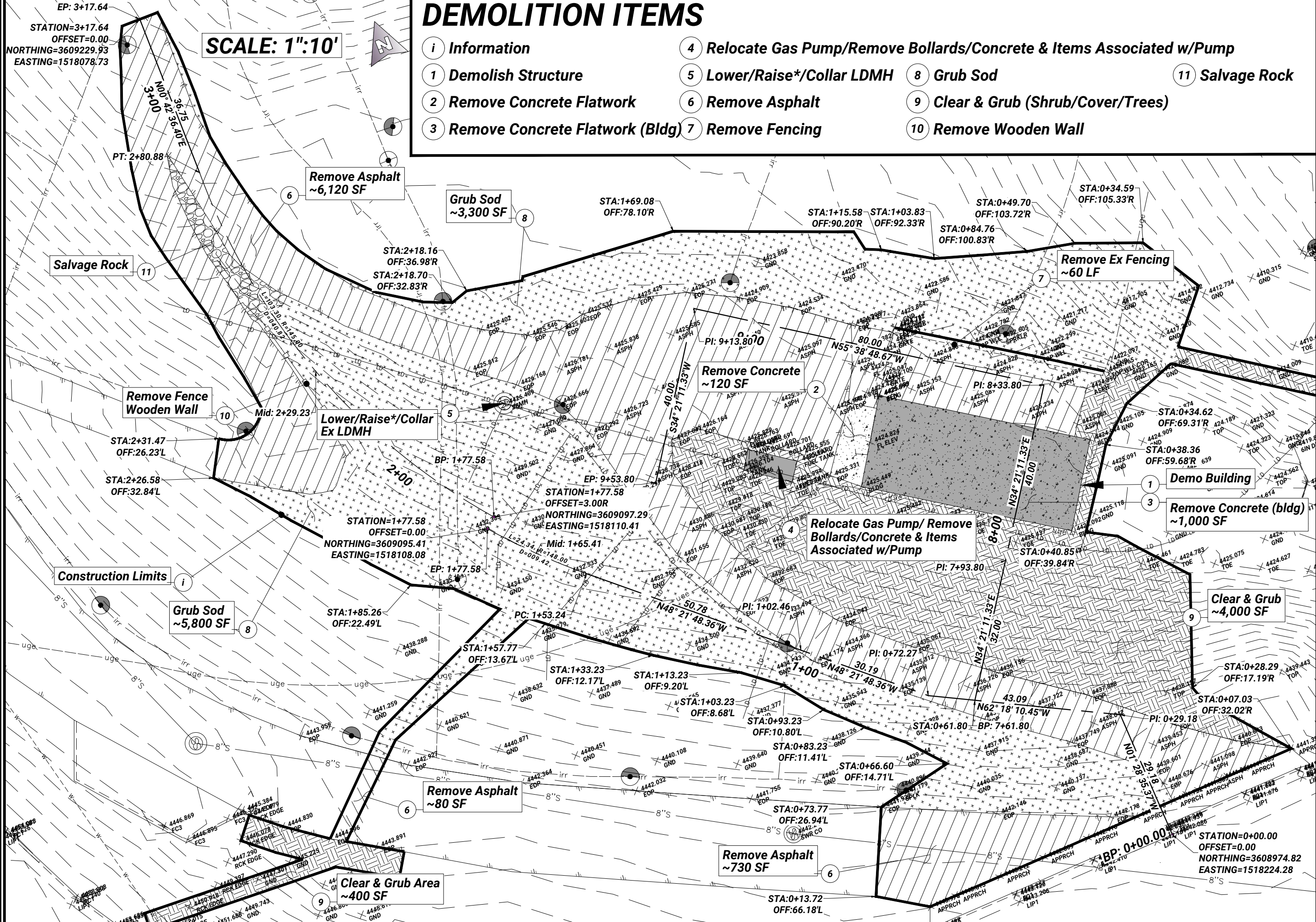
DEMOLITION

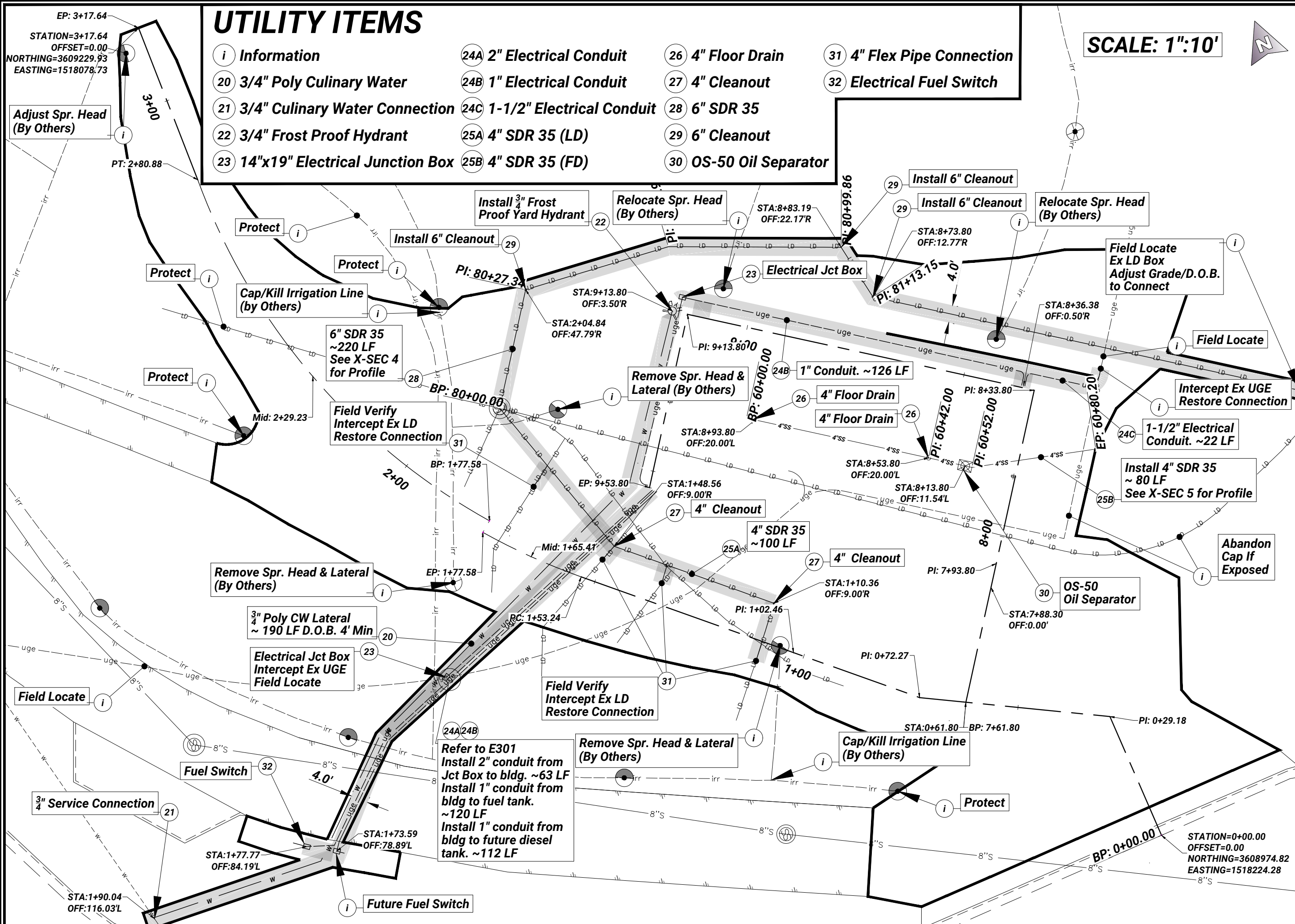
EL MONTE MAINTENANCE SHED

EL MONTE GOLF COURSE

DRAWING NAME: Dalton's Final - AAA NEW El Monte - MAINTENANCE SHED FINAL PERMITTING.dwg 12:14 PM

Ogden UTAH *Still Untamed™*
2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-8980 engineering.ogdenity.com





EP: 3+17.64
STATION=3+17.64
OFFSET=0.00
NORTHING=3609229.93
EASTING=1518078.73

SCALE: 1"=10'



WALL ITEMS

- i Information
- 40 Rock Wall 36"-12"+
- 41 Rock Wall 24"-8"

WALL 1

3
17

REV	DATE	DESCRIPTION
0		MUDDRY DESCRIPTION



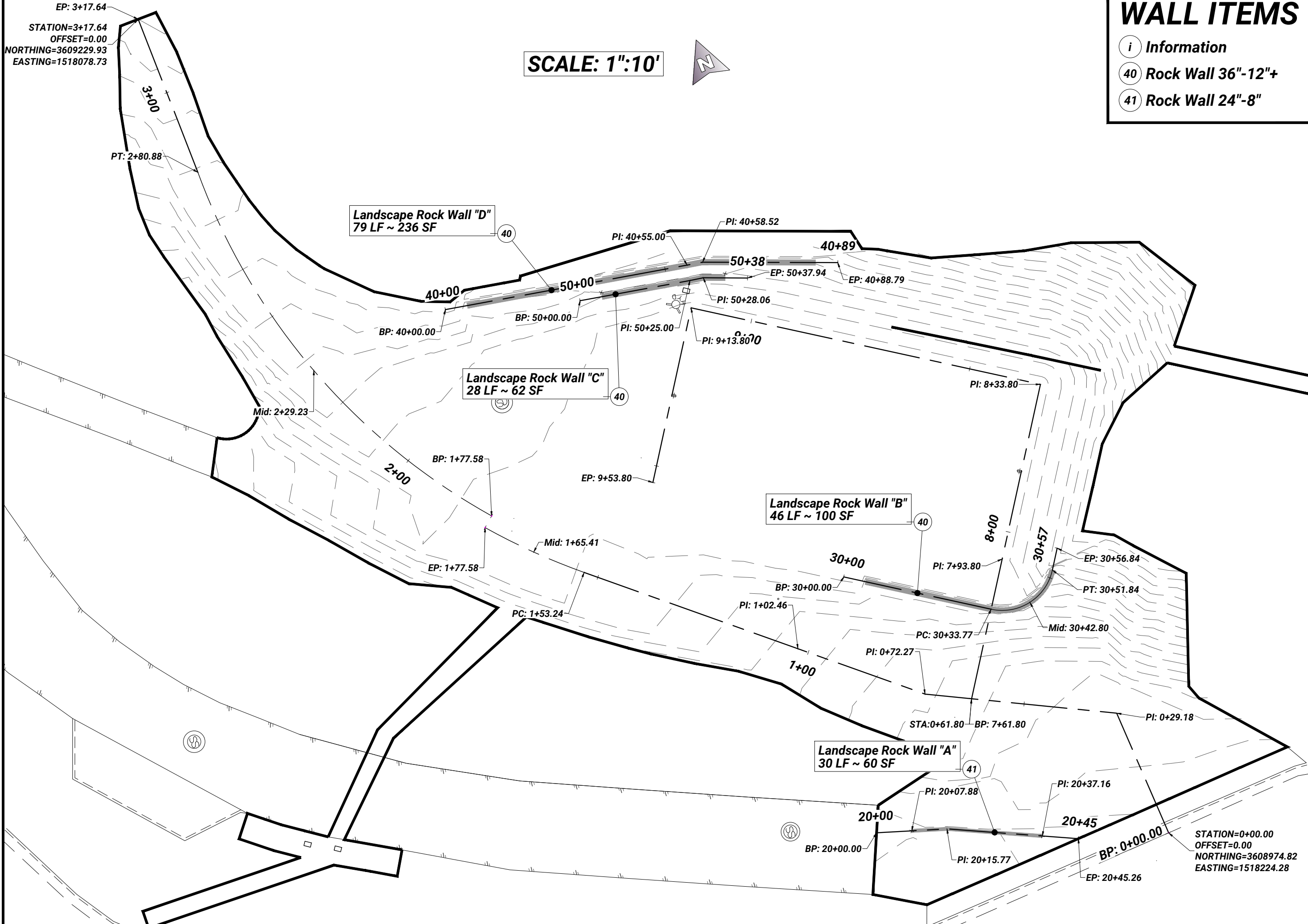
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		10/6/25
DRAWN	DWG	
CHECKED	DWG	
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V: N/A	(11x17)	
	(22x34)	
	(11x17)	

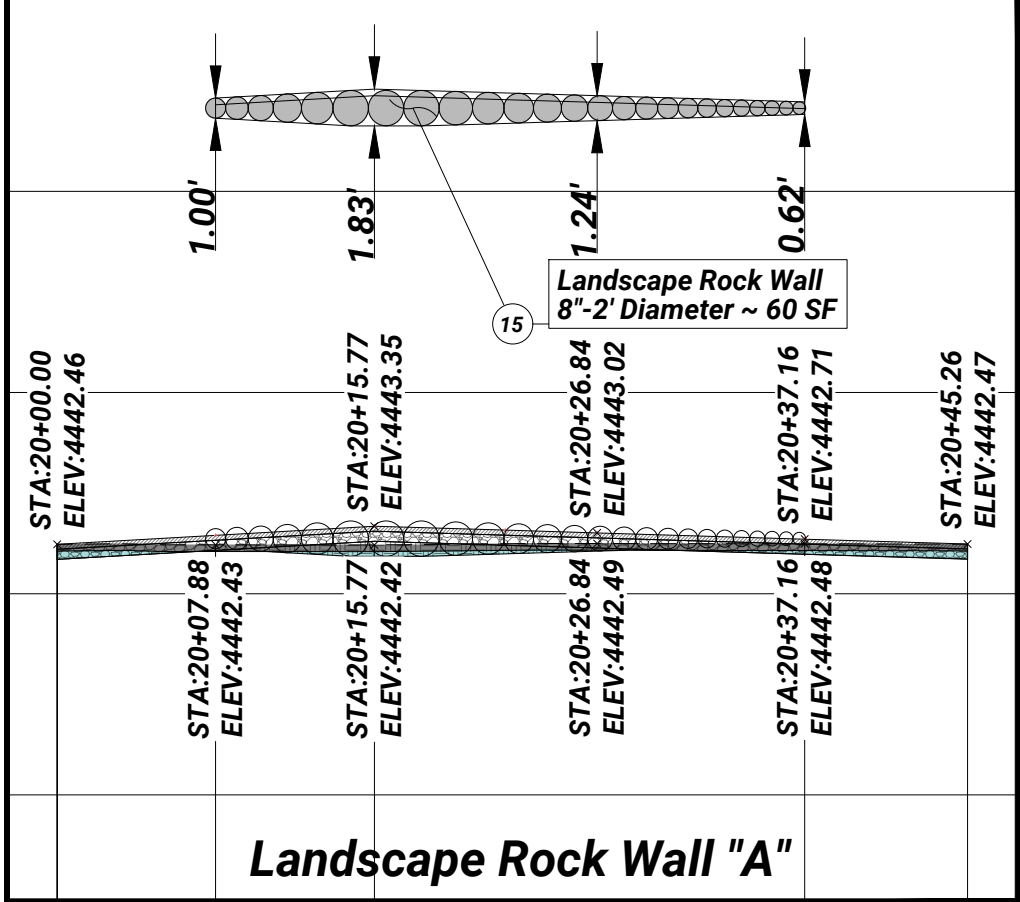
WALL PLAN
EL MONTE MAINTENANCE SHED
EL MONTE GOLF COURSE

DRAWING NAME: Dalton's Final - AAA NEW El Monte - MAINTENANCE SHED FINAL PER D&M CHANGELOGS 12:14 PM

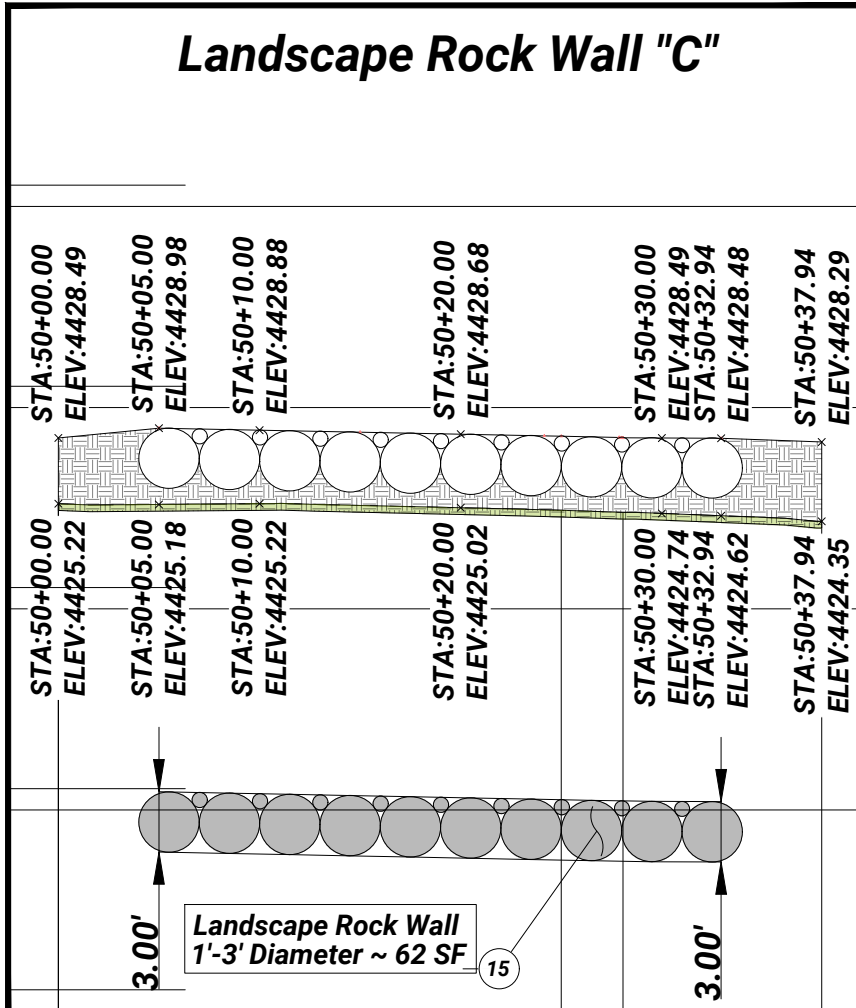
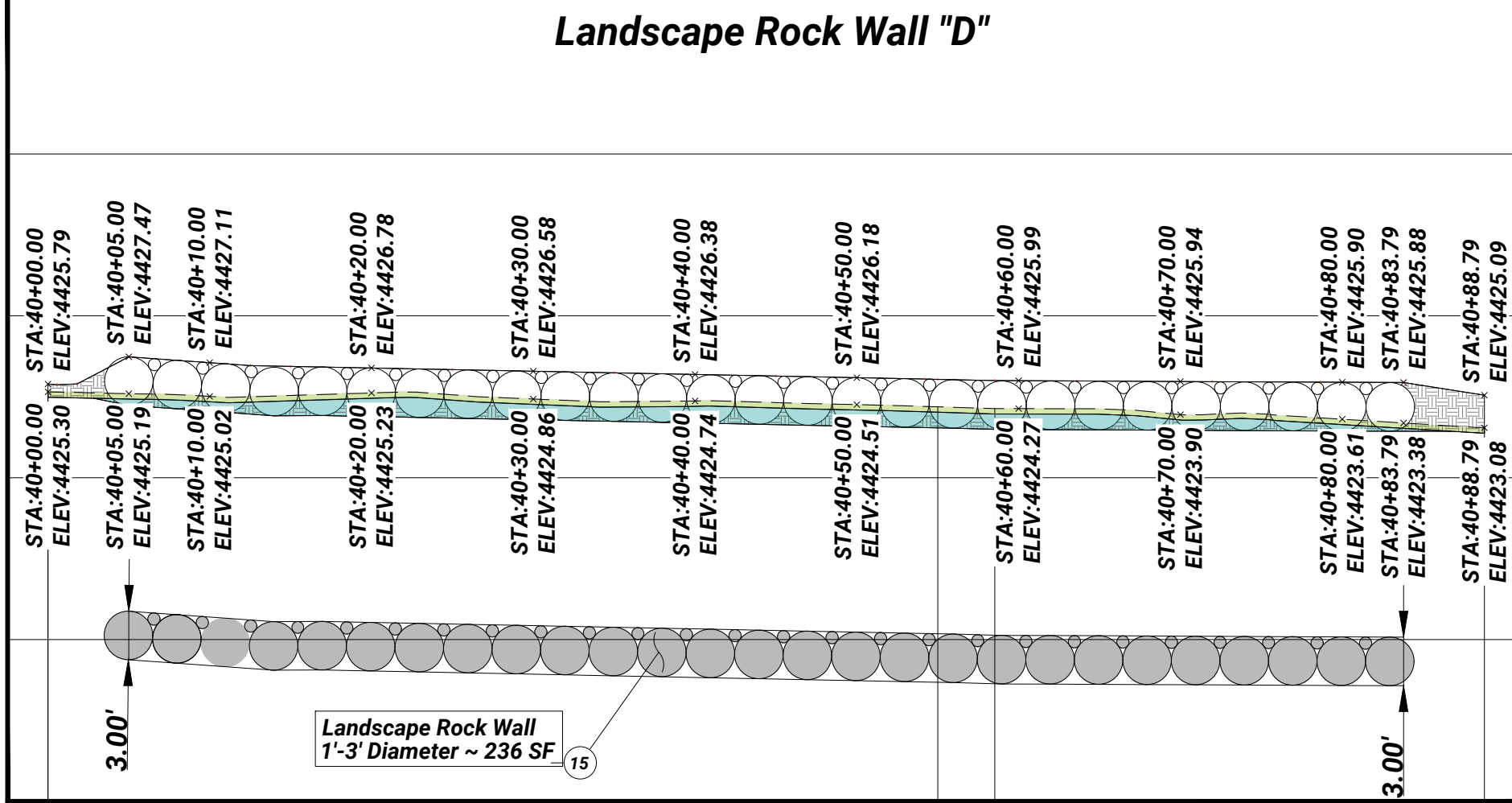
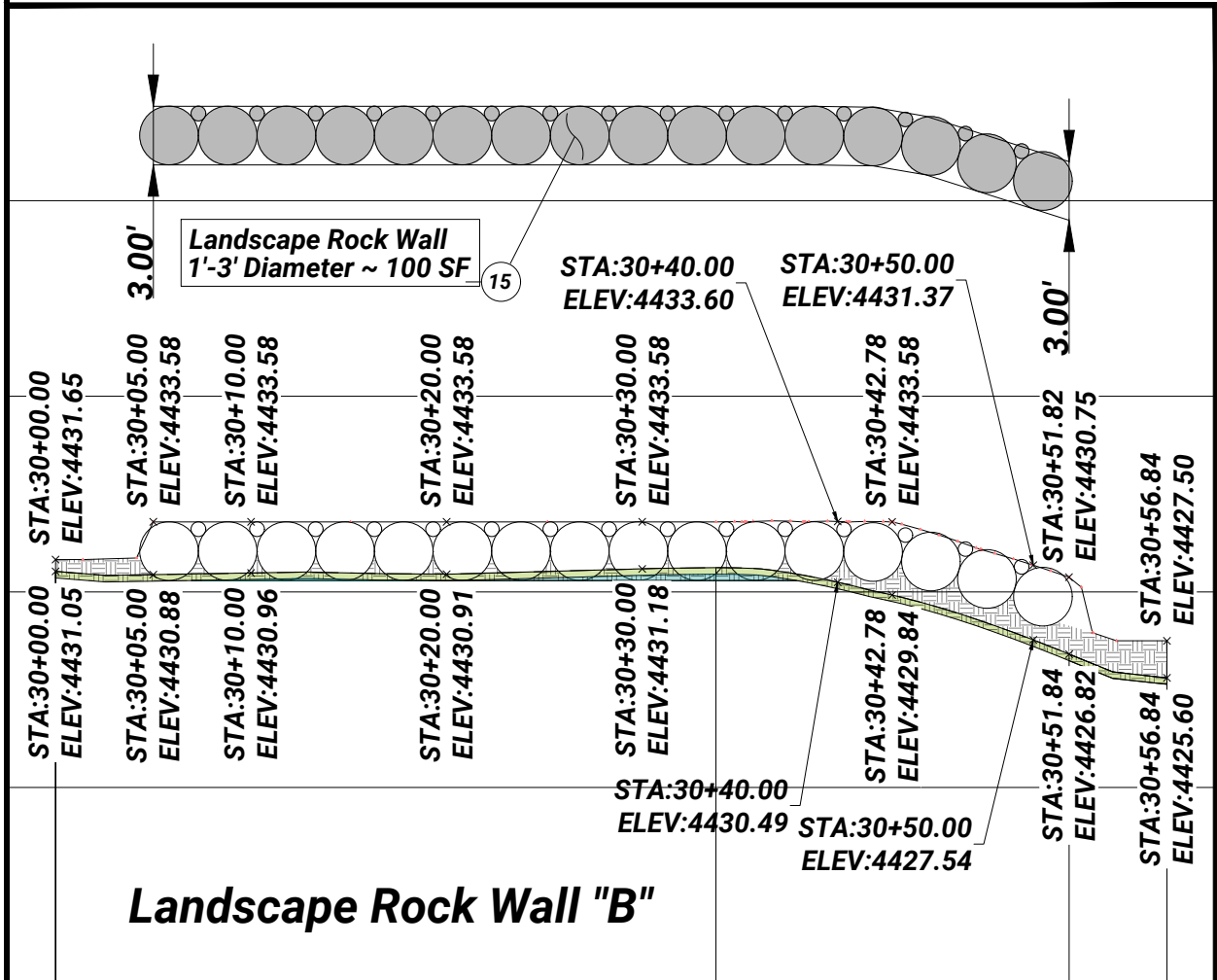
Ogden UTAH
Still Untamed™

2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-9980 engineering.ogdenutah.com





SCALE: 1"=5'



DEMOLITION ITEMS

- Remove Asphalt
- Grub Sod
- Clear & Grub Area
- Remove Concrete
- Unclassified Excavation

CONSTRUCTION ITEMS

- Install 3" HMA
- UTBC (t=6")
- Import Common Fill
- Topsoil
- 6" Concrete Flatwork
- Sod

WALL 2

SHEETS

17

PAGE

4

REV	DATE	DESCRIPTION
0		MODIFY DESCRIPTION

PROFESSIONAL SEAL

Daniel Shipp Gillette

REGISTERED PROFESSIONAL ENGINEER

DANIEL SHIPP GILLETTE

NO. 403804-2202

EXP. 12/31/2025

CIVIL

STATE OF UTAH

DESIGNED

DRAWN

CHECKED

DSG

DSG

DATE

10/6/25

DRAWING SCALE

(22x34)

(11x17)

(11x17)

H: 1" = 10'

V: N/A

This bar measures exactly one inch on the original drawing

WALL PROFILES

EL MONTE MAINTENANCE SHED

EL MONTE GOLF COURSE

Ogden

UTAH

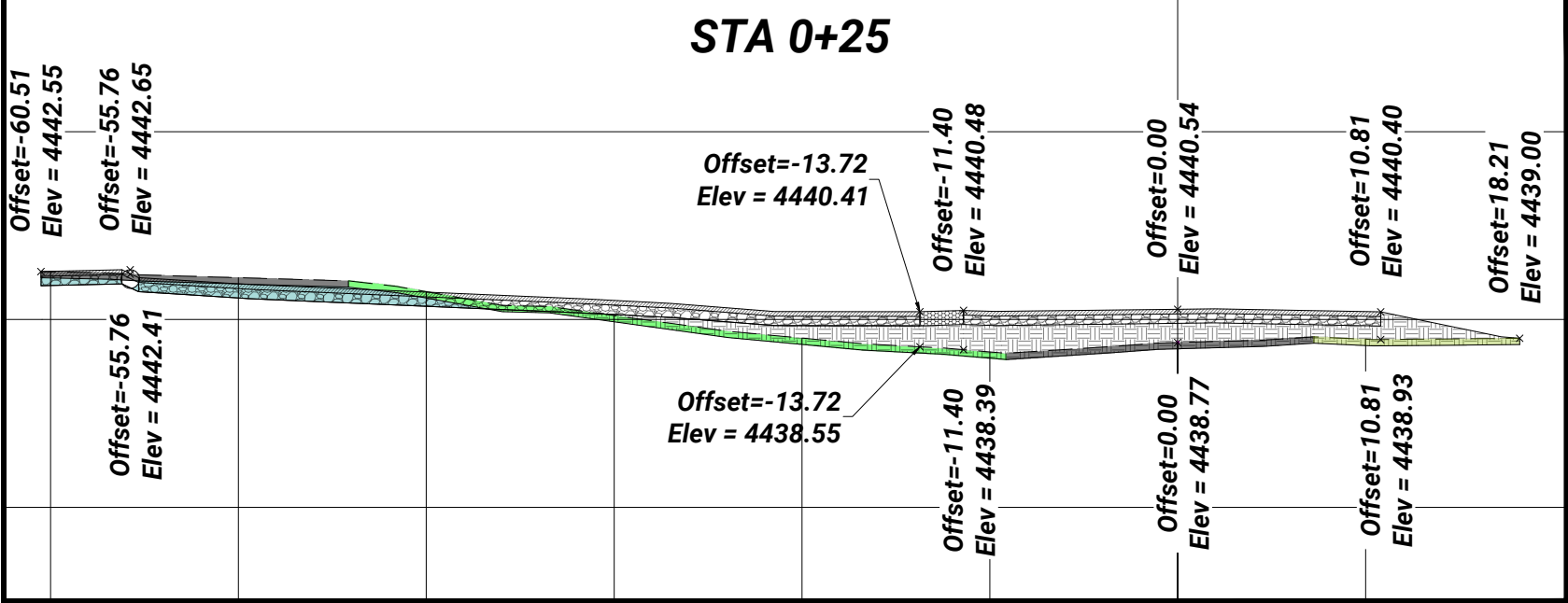
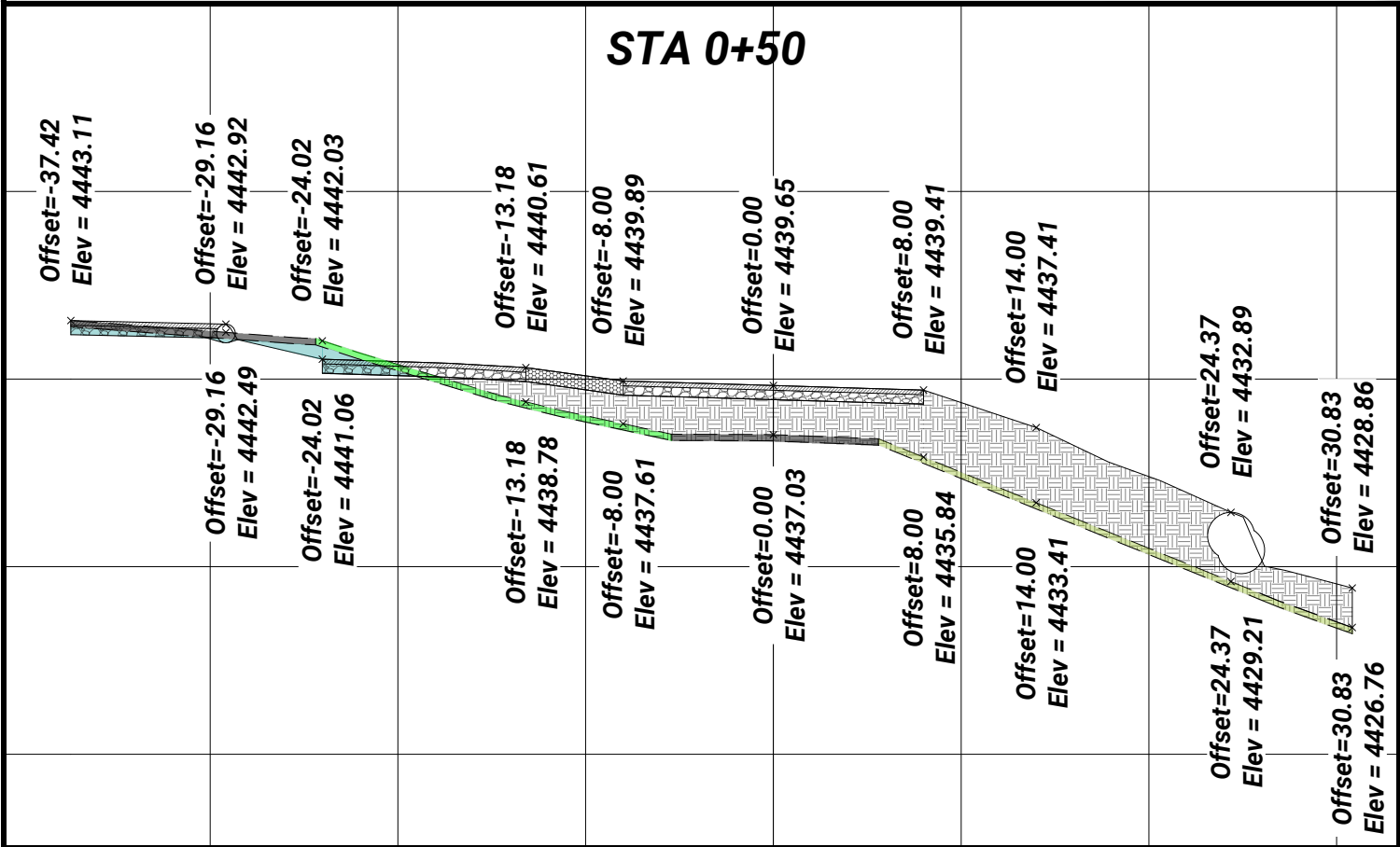
Still Untamed

2549 Washington Blvd, Suite 760 Ogden, UT 84401

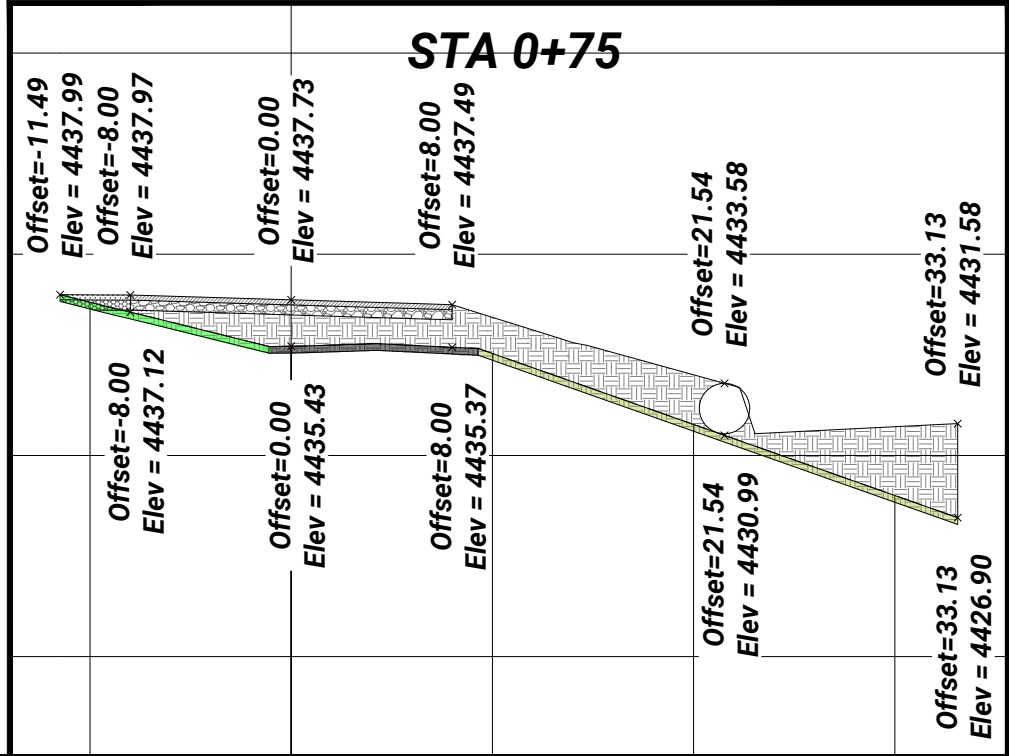
Phone: 801-629-9980 engineering.ogdencity.com

DRAWING NAME: Dalton's Final - AAA NEW El Monte - MAINTENANCE SHED FINAL PERIODIC CHANGE.DWG

12:14 PM



SCALE: 1":5'

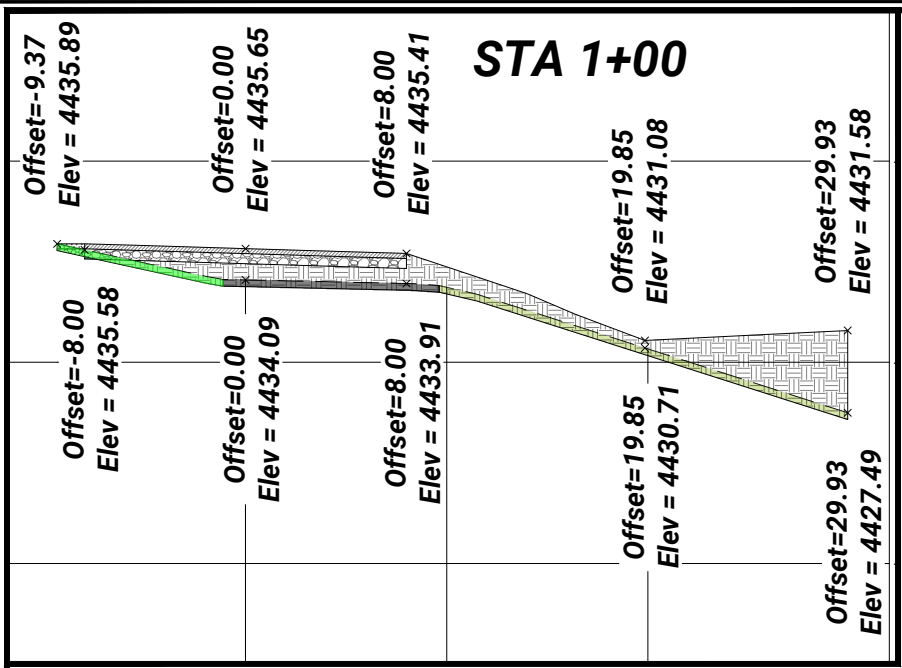
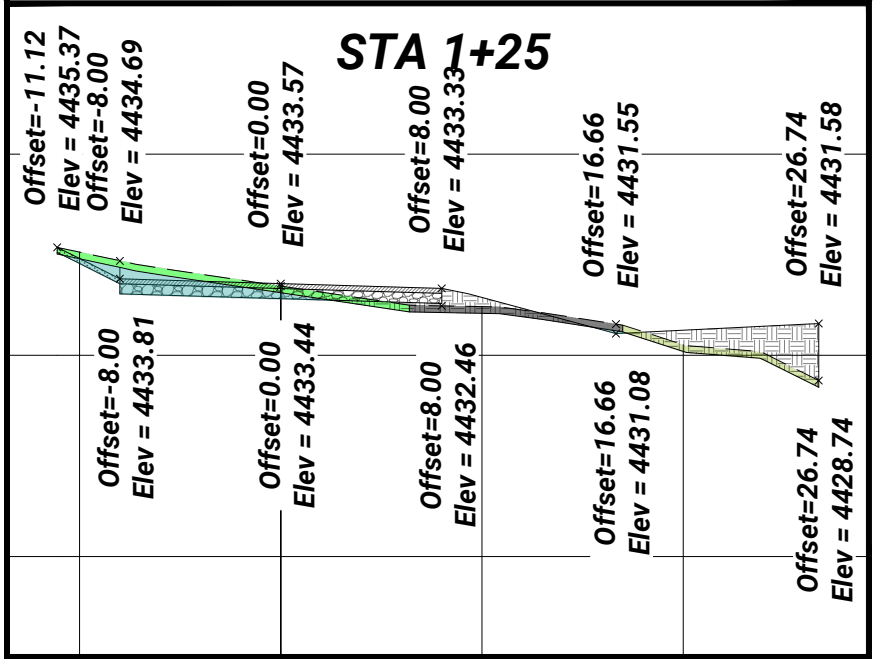
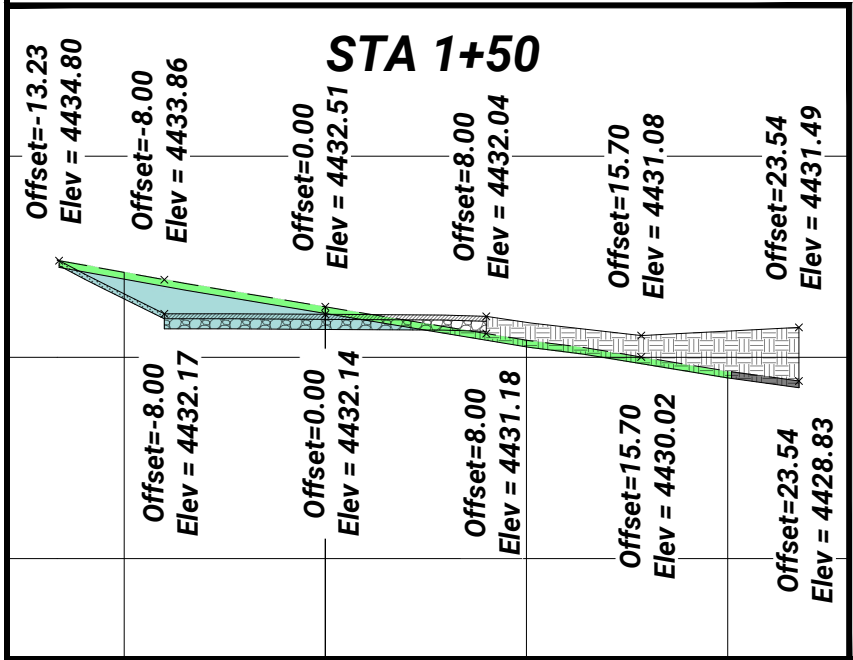


CONSTRUCTION ITEMS

- Install 3" HMA
- UTBC (t=6")
- Import Common Fill
- Topsoil
- 6" Concrete Flatwork
- Sod

DEMOLITION ITEMS

- Remove Asphalt
- Grub Sod
- Clear & Grub Area
- Remove Concrete
- Unclassified Excavation



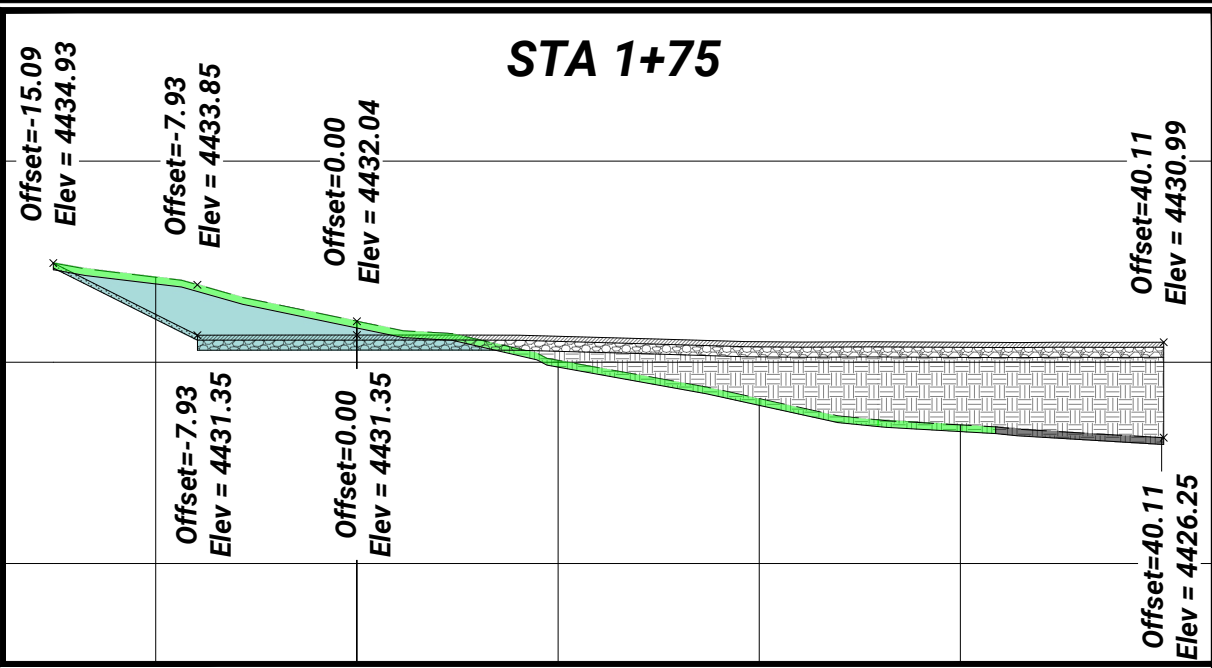
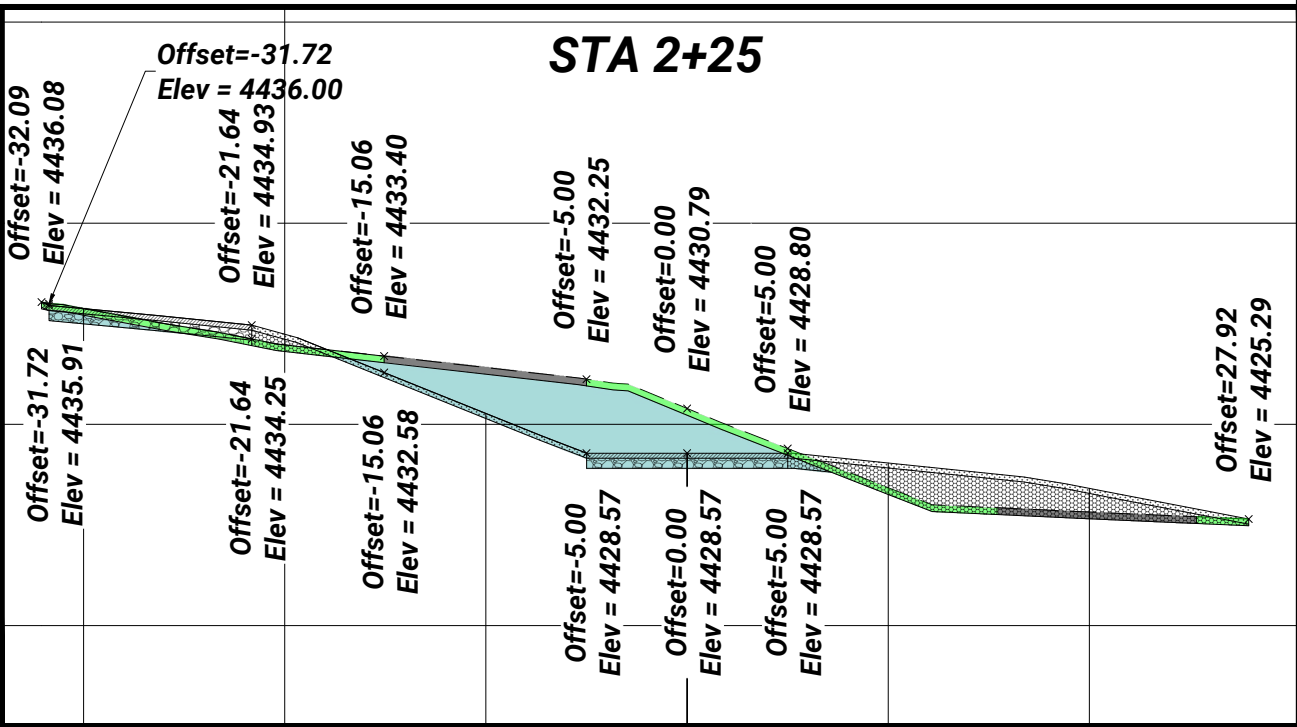
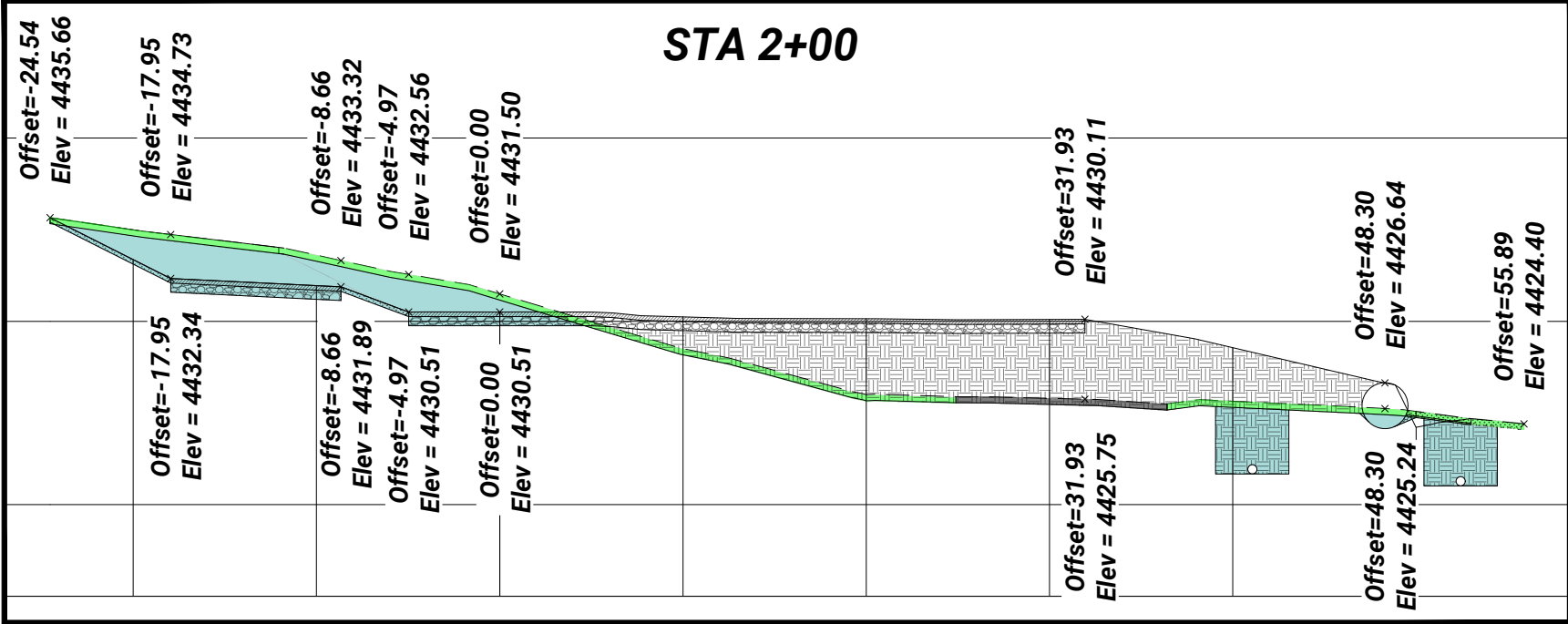
CONSTRUCTION ITEMS

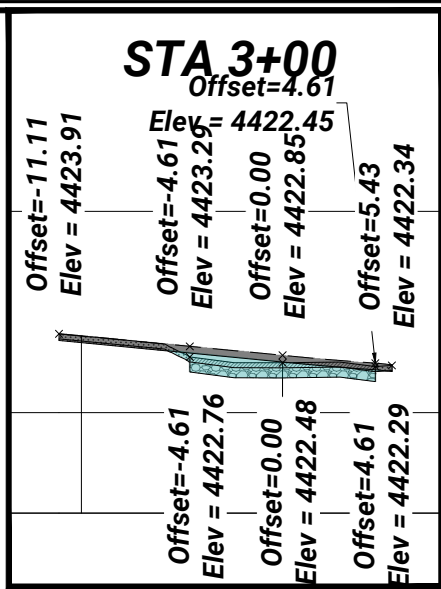
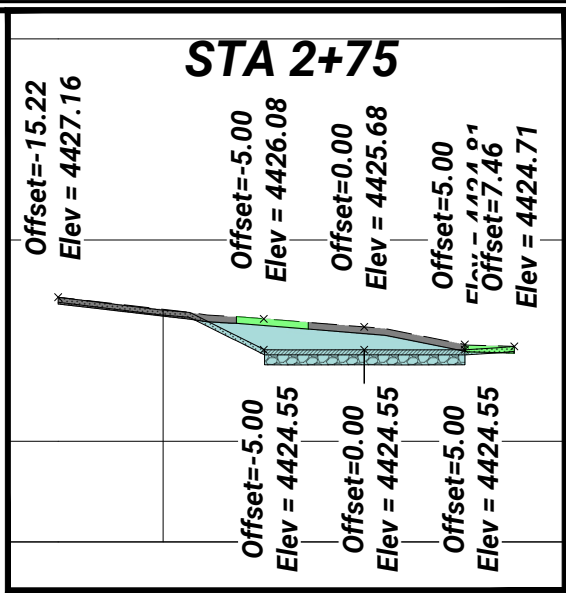
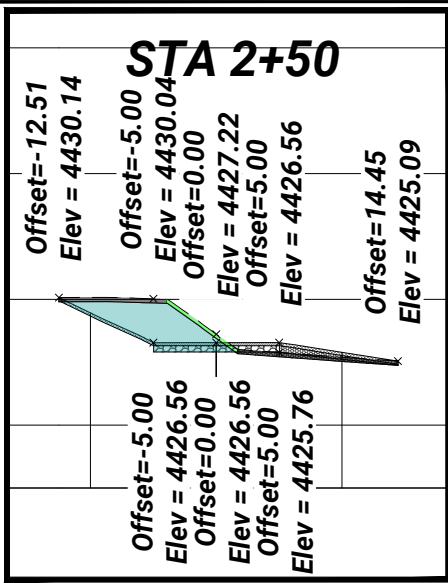
- Install 3" HMA
- UTBC (t=6")
- Import Common Fill
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DEMOLITION ITEMS

- Remove Asphalt
- Grub Sod
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- Unclassified Excavation

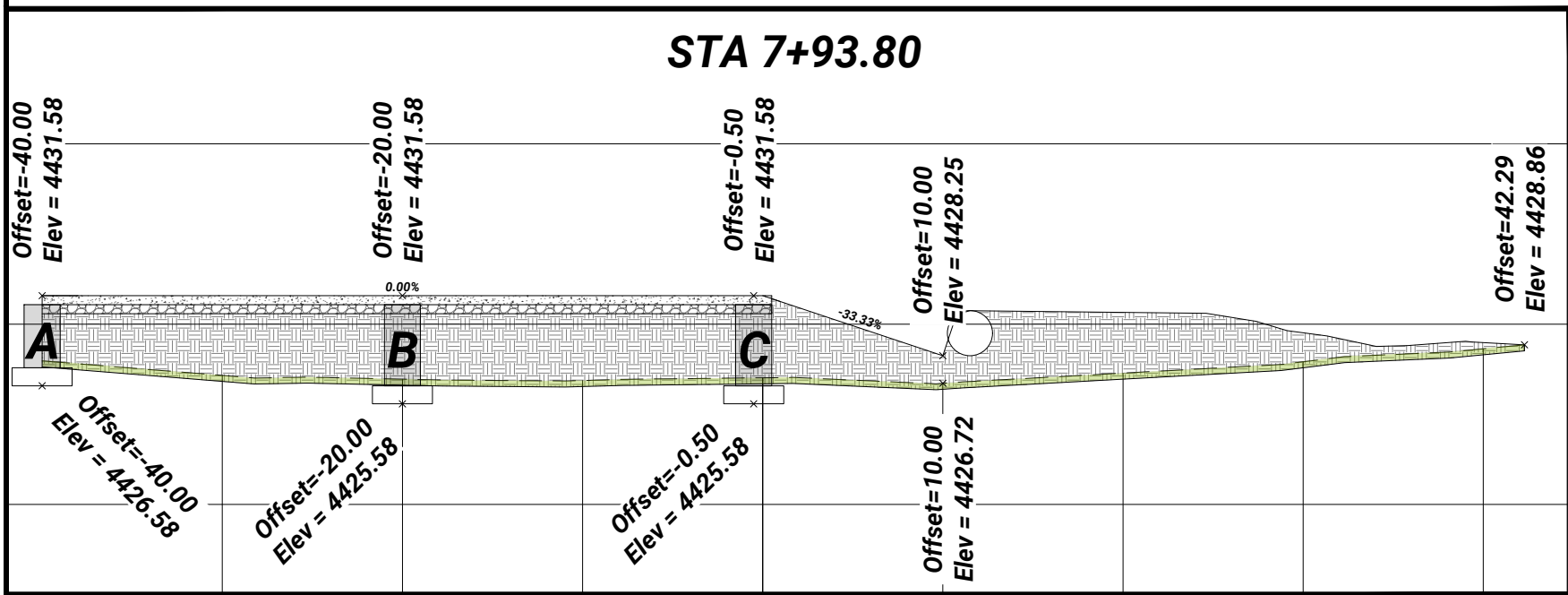
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DEMOLITION ITEMS

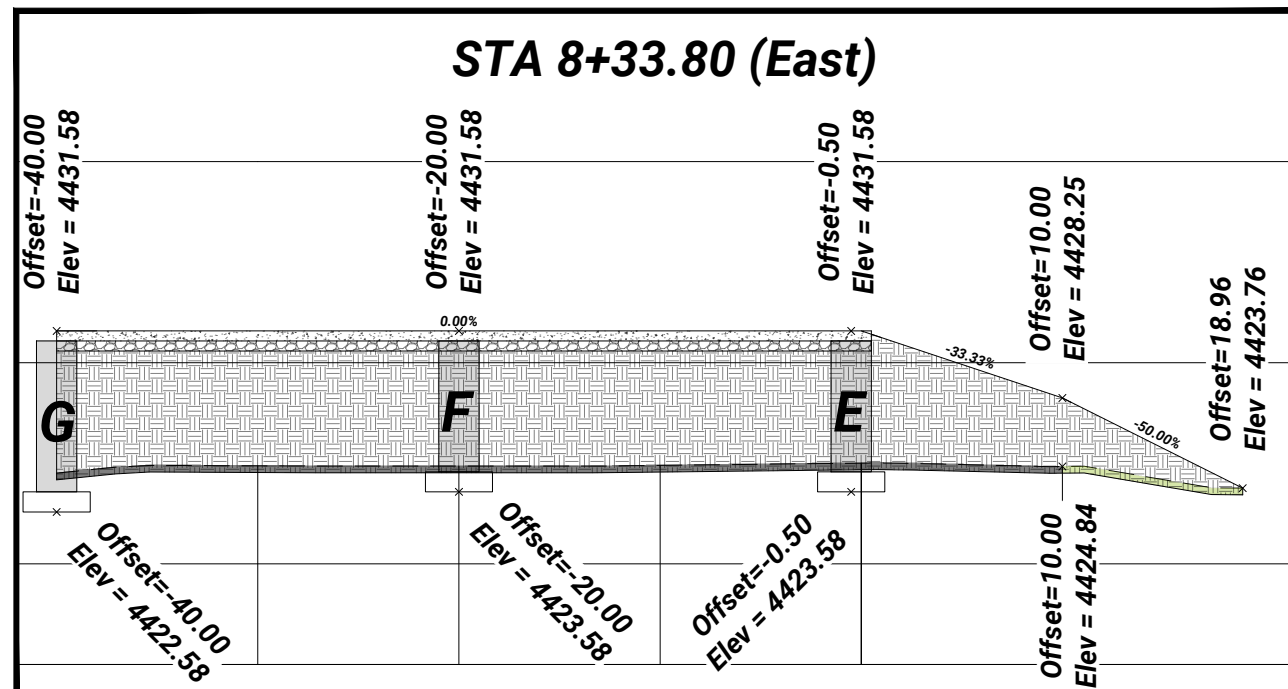
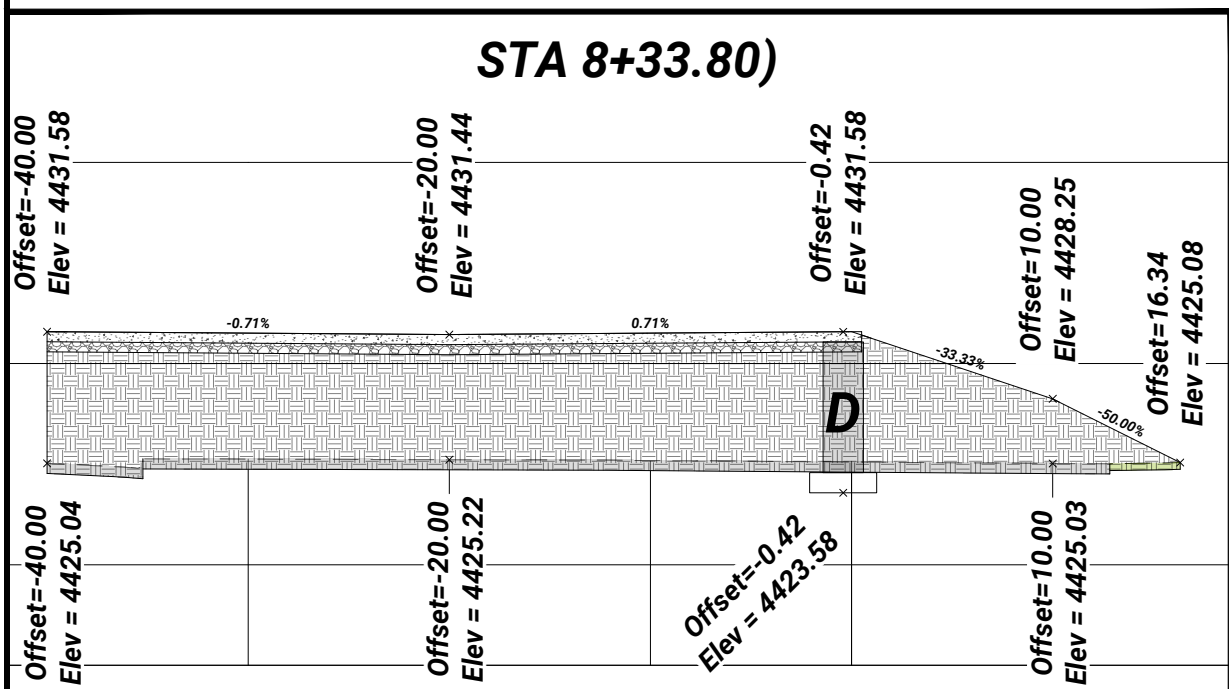
- Remove Asphalt
- Grub Sod
- Clear & Grub Area
- Remove Concrete
- Unclassified Excavation



CONSTRUCTION ITEMS

- Install 3" HMA
- UTBC (t=6")
- Import Common Fill
- Topsoil
- 6" Concrete Flatwork
- Sod

SCALE: 1"=5'



REV	DATE	DESCRIPTION
0		ISSUED FOR CONSTRUCTION



DESIGNED	DWG	DATE
		10/6/25
DRAWN	DWG	
CHECKED	DWG	

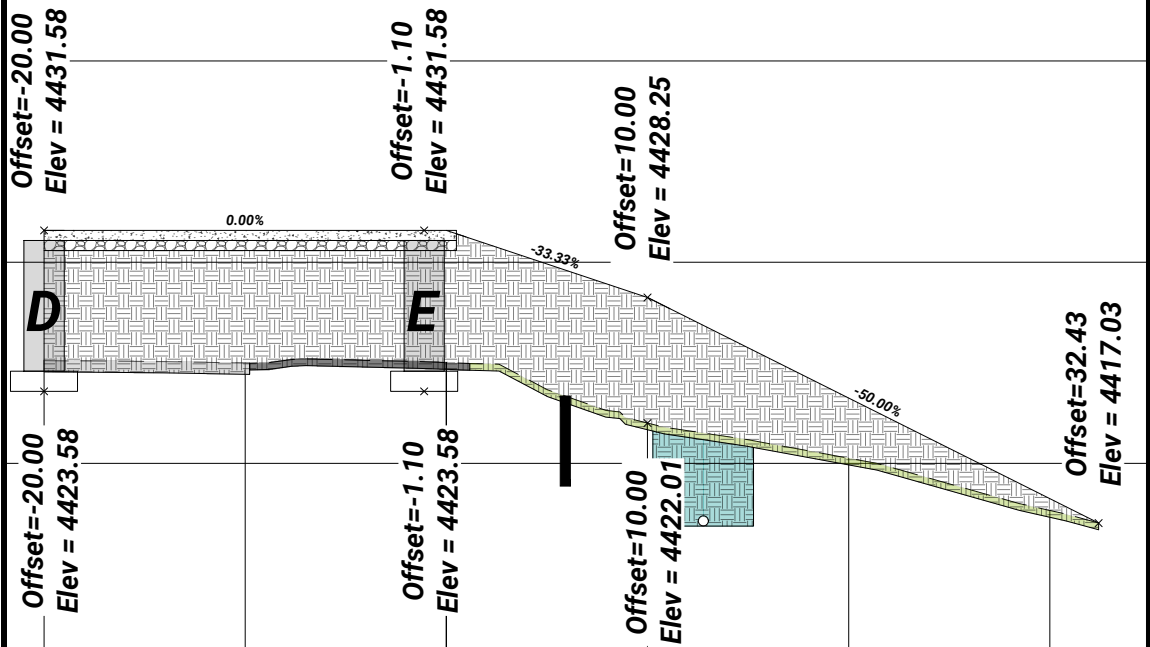
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H: 1" = 10' (22x34)

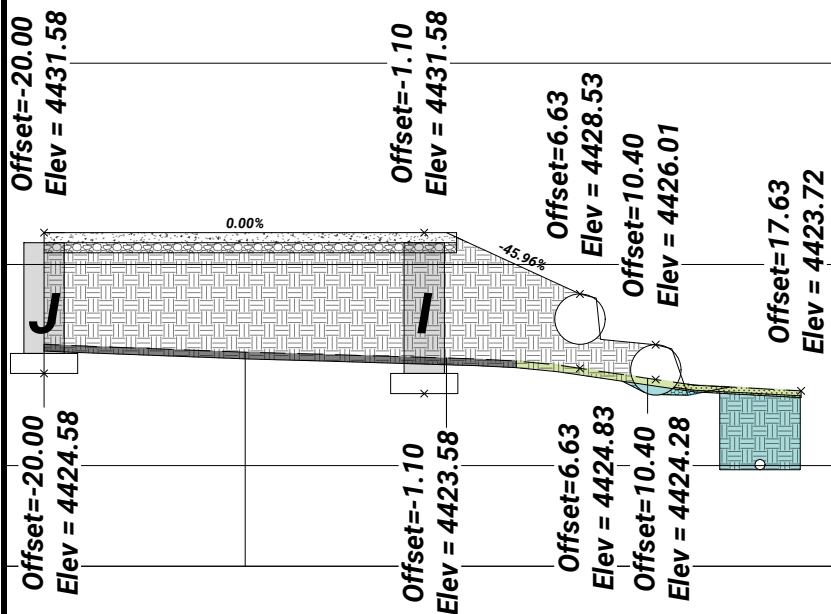
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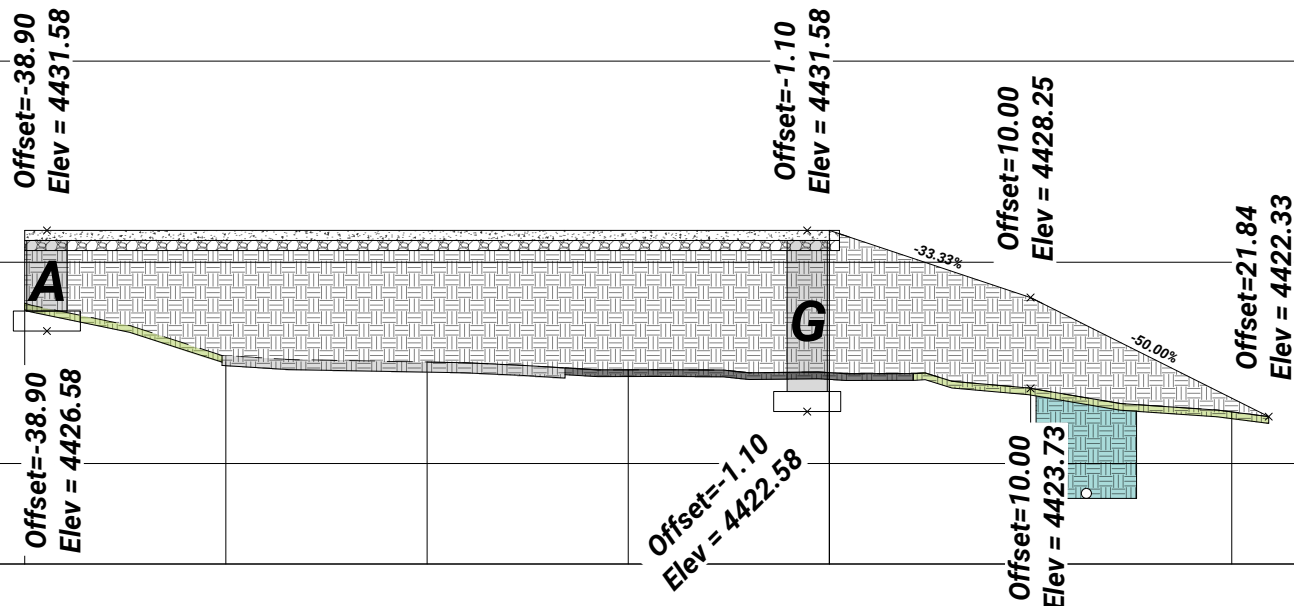
STA 8+33.80 (North)



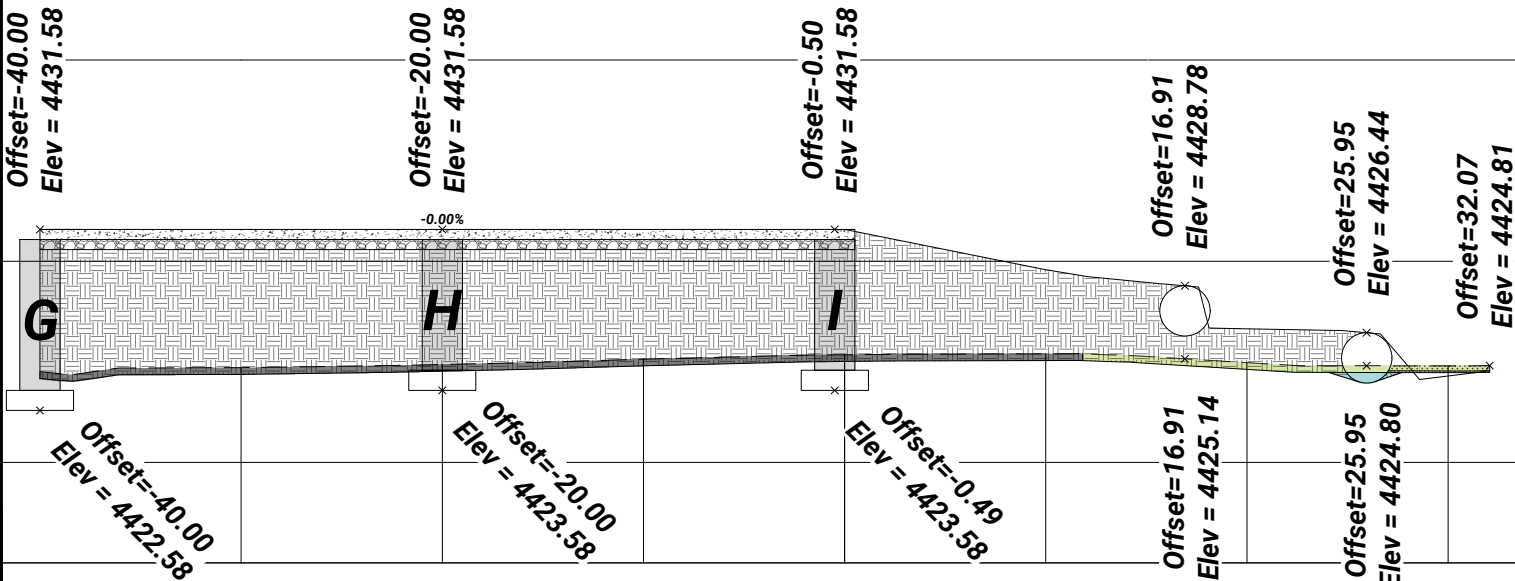
STA 9+13.80 (North)



STA 8+73.80



STA 9+13.80 (West)



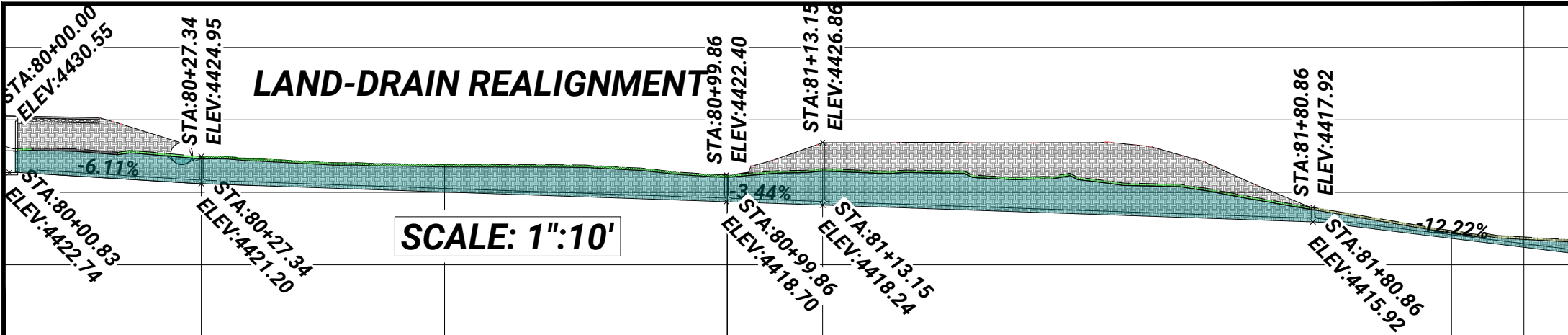
CONSTRUCTION ITEMS

- Install 3" HMA
- Import Common Fill
- 6" Concrete Flatwork
- UTBC (t=6")
- Topsoil
- Sod

DEMOLITION ITEMS

- Remove Asphalt
- Grub Sod
- Clear & Grub Area
- Remove Concrete
- Unclassified Excavation

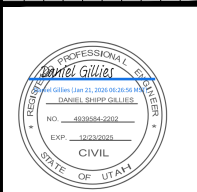
LAND-DRAIN REALIGNMENT



SCALE: 1"=10'

SCALE: 1"=5'

REV	DATE	DESCRIPTION
0		MODIFY DESCRIPTION



DESIGNED	DSG	DATE
DRAWN	DSG	10/6/25
CHECKED		

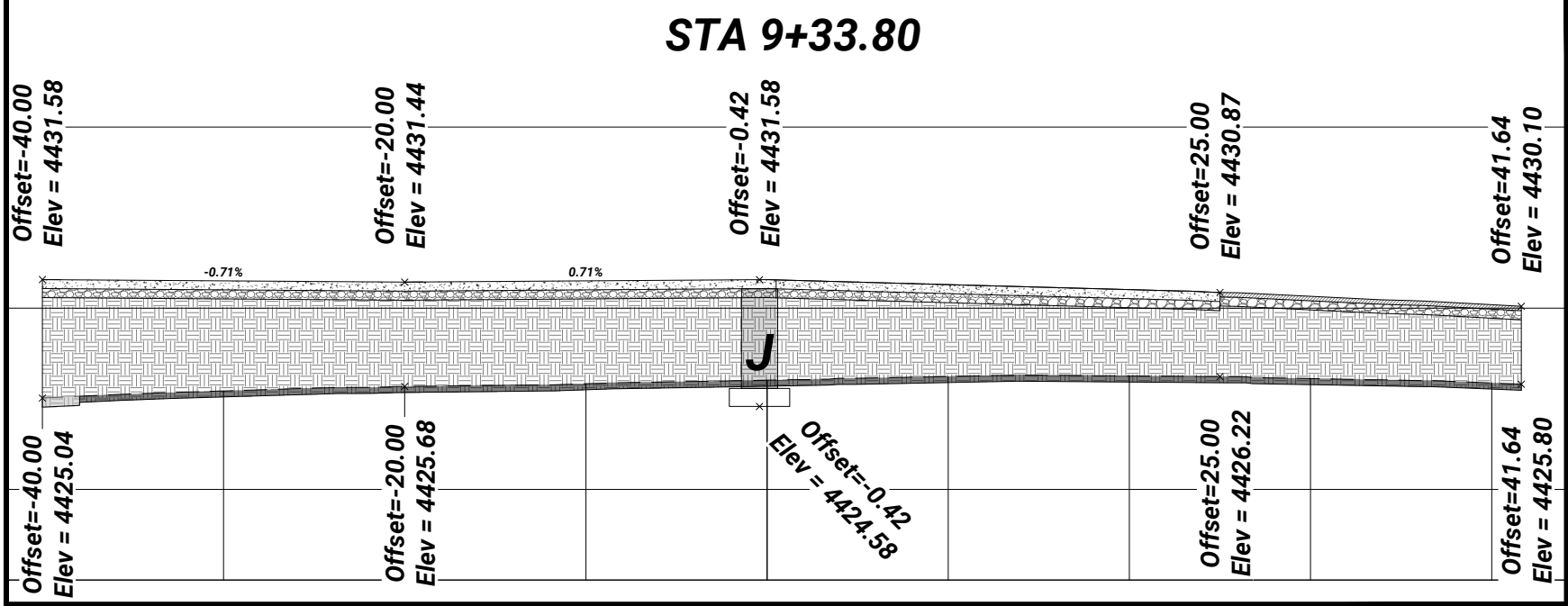
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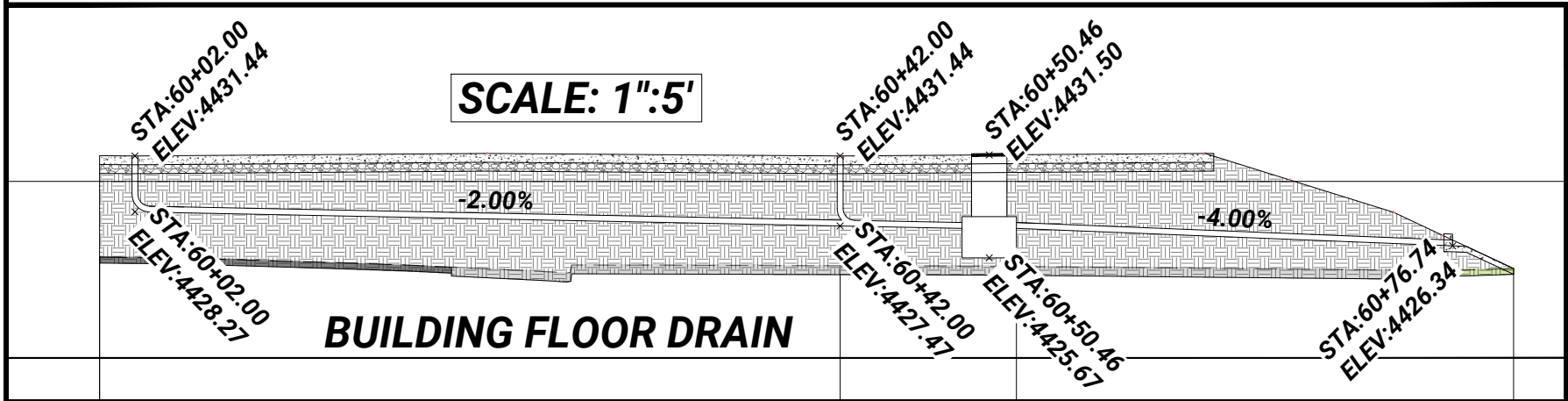
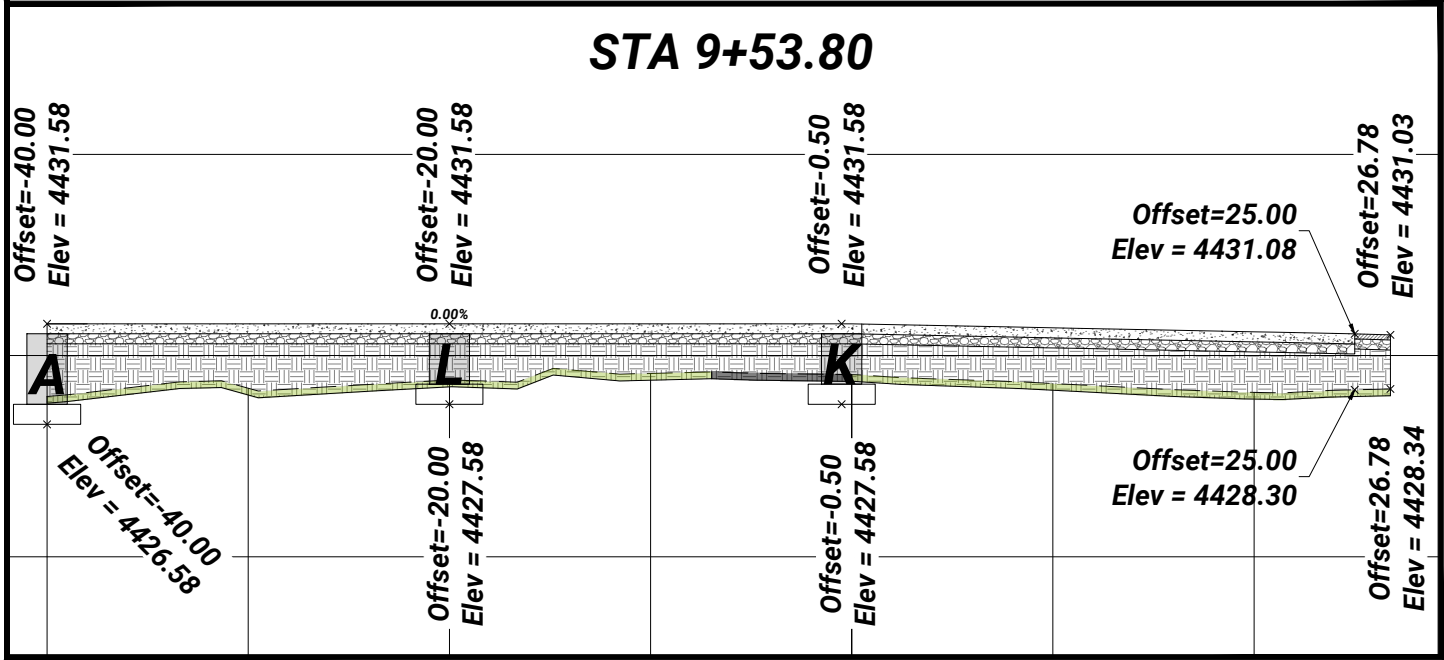
V: N/A (22x34) (11x17)

This bar measures exactly one inch on the original drawing.

CROSS SECTIONS
EL MONTE MAINTENANCE SHED
EL MONTE GOLF COURSE
DRAWING NAME: Dalton's Final - AAA NEW El Monte - MAINTENANCE SHED FINAL PERMITS & CHANGE LOGS 12:15 PM



SCALE: 1":5'



DEMOLITION ITEMS

- Remove Asphalt
- Grub Sod
- Clear & Grub Area
- Remove Concrete
- Unclassified Excavation

CONSTRUCTION ITEMS

- Install 3" HMA
- UTBC (t=6")
- Import Common Fill
- Topsoil
- 6" Concrete Flatwork
- Sod

REV	DATE	DESCRIPTION
0		INITIAL DESCRIPTION



DESIGNED	DWG	DATE
		10/6/25
DRAWN	DWG	
CHECKED	DWG	
DRAWING SCALE		
H: 1" = 10'	(22x34)	(11x17)
V: N/A	(22x34)	(11x17)

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CROSS SECTIONS

EL MONTE MAINTENANCE SHED

EL MONTE GOLF COURSE

DRAWING NAME: Dalton's Final - AAA NEW El Monte - MAINTENANCE SHED FINAL PERIODIC CHANGE.DWG 12:15 PM

SCALE: 1"=5'



Electrical Conduit
w/Vertical Sweep Intercept
UGE/Terminate within Building.
Connect to salvaged panel.

BLDG UTILITIES

- i Information
- 51 1" FO/T Conduits
- 52 4" Gas Conduit
- 53 4" (t) Warped Concrete Outfall
- 54 6" (t) Concrete Flatwork (Bldg)

REV	DATE	DESCRIPTION
0		ISSUED FOR CONSTRUCTION

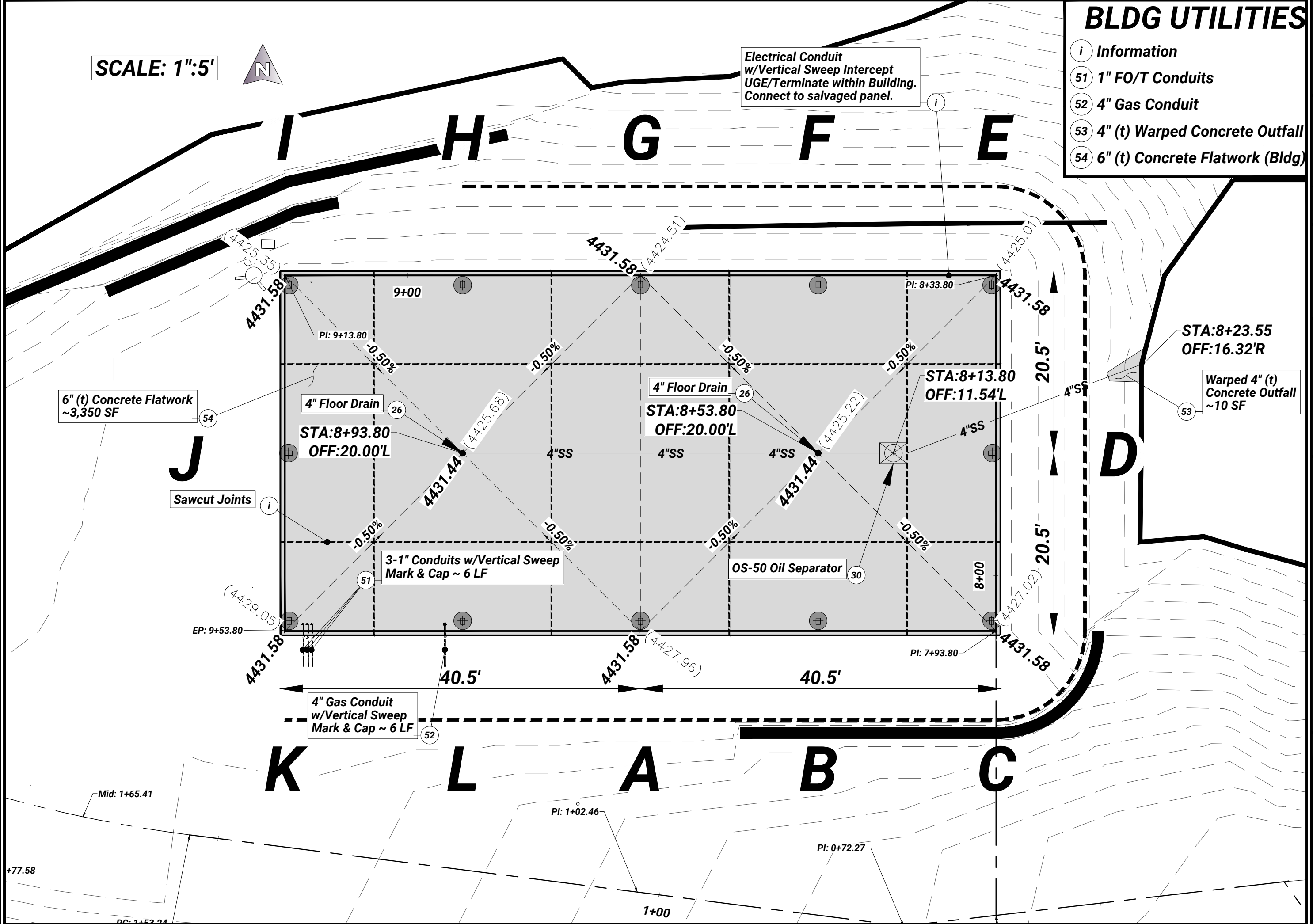


DESIGNED	DRAWN	CHECKED	DATE
			10/6/25

DWG SCALE
H: 1" = 10'
V: N/A

This bar measures
exactly one inch on
the original drawing

BUILDING PAD
EL MONTE MAINTENANCE SHED
EL MONTE GOLF COURSE



FOUNDATION LAYOUT

SCALE: 1":5'



i Information

55 Footings/Foundations

FOUND

PAGE

Footing/Foundation - Typ
See Foundation Details
12 EA

55

Alignment=Structure East-North
Station=8+53.80
Offset=-1.104

Alignment=Structure East-North
Station=8+32.71
Offset=-0.500

PI: 8+33.80

PI: 9+13.80-

Alignment=Structure East-North
Station=9+14.90-
Offset=-0.500

Alignment=Structure East-North
Station=8+93.80-
Offset=-1.104

Alignment=Structure East-North
Station=8+73.80
Offset=-1.104

9+00

Alignment=Structure East-North
Station=9+33.80
Offset=-0.417

Sawcut Joints

i

Alignment=Structure East-North
Station=9+52.65-
Offset=-0.500

EP: 9+53.80-

Alignment=Structure East-North
Station=9+52.65-
Offset=-20.000

Alignment=Structure East-North
Station=8+73.80-
Offset=-38.858

Alignment=Structure East-North
Station=7+94.94
Offset=-20.000

PI: 7+93.80

Alignment=Structure East-North
Station=7+94.94
Offset=-0.500

Alignment=Structure East-North
Station=8+13.80
Offset=-0.417

+77.58

Mid: 1+65.41

Pl: 1+02.46—

PI: 0+72.27.

1+00

**Contractor to verify
foundation placement
with building anchor plan**

FOUNDATION LAYOUT

EL MONTE MAINTENANCE SHED
EL MONTE GOLF COURSE

Ogden
UTAH
Still Untamed™

49 Washington Blvd, Suite 760 Ogden, UT 84403
Phone: 801-629-9980 engineering.ogdenacity.com

2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-8980 engineering.ogdency.com

DRAWING NAME: Foundation Layout.dwg

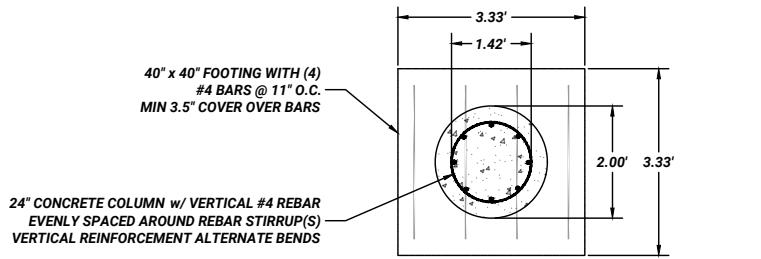
DESIGNED ▶	DSG	DATE
DRAWN ▶	DSG	10/6/25

DRAWN ▲ DSG

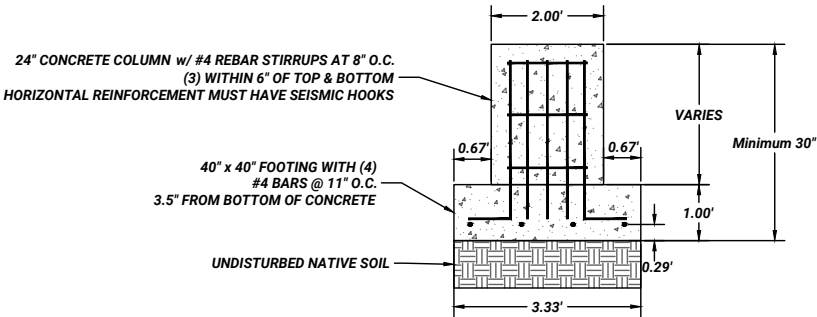
CHECKED 

DRAWING SCALE
H. 1" = 10' (22x34)

11. $1 = 10$
(22x37)
(11x17)

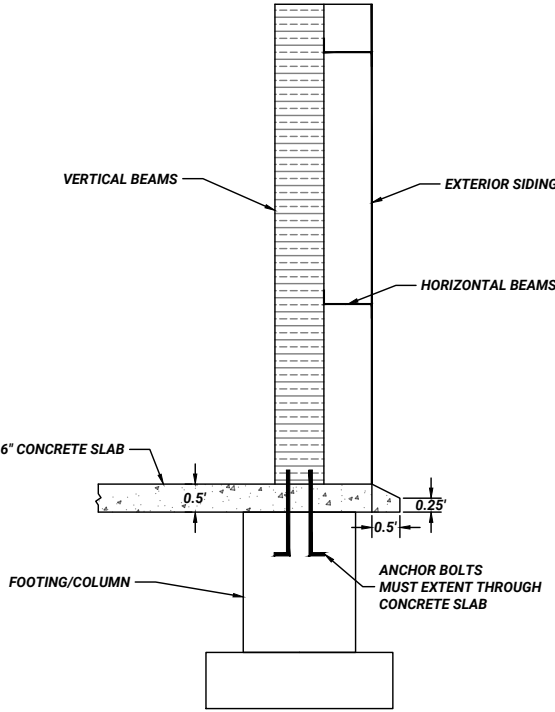


Plan View

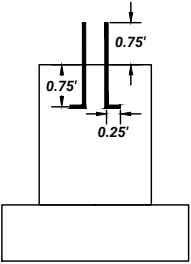


Profile View

FOOTING & COLUMN DETAIL



SLAB DETAIL



ANCHOR BOLT LAYOUT

FD-1

SHEET 13

REVISION 0

REV	DATE	DESCRIPTION
0	MM/DD/YY	DESCRIPTION

DATE 12/23/2025

DESIGNED DBR

DRAWN DBR

CHECKED DSG

DRAWING SCALE

H: 1" = 20' (22x34)

V: 1" = 5' (22x34)

V: 1" = 10' (11x17)

FOUNDATION DETAILS

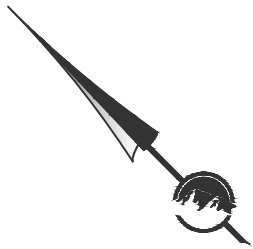
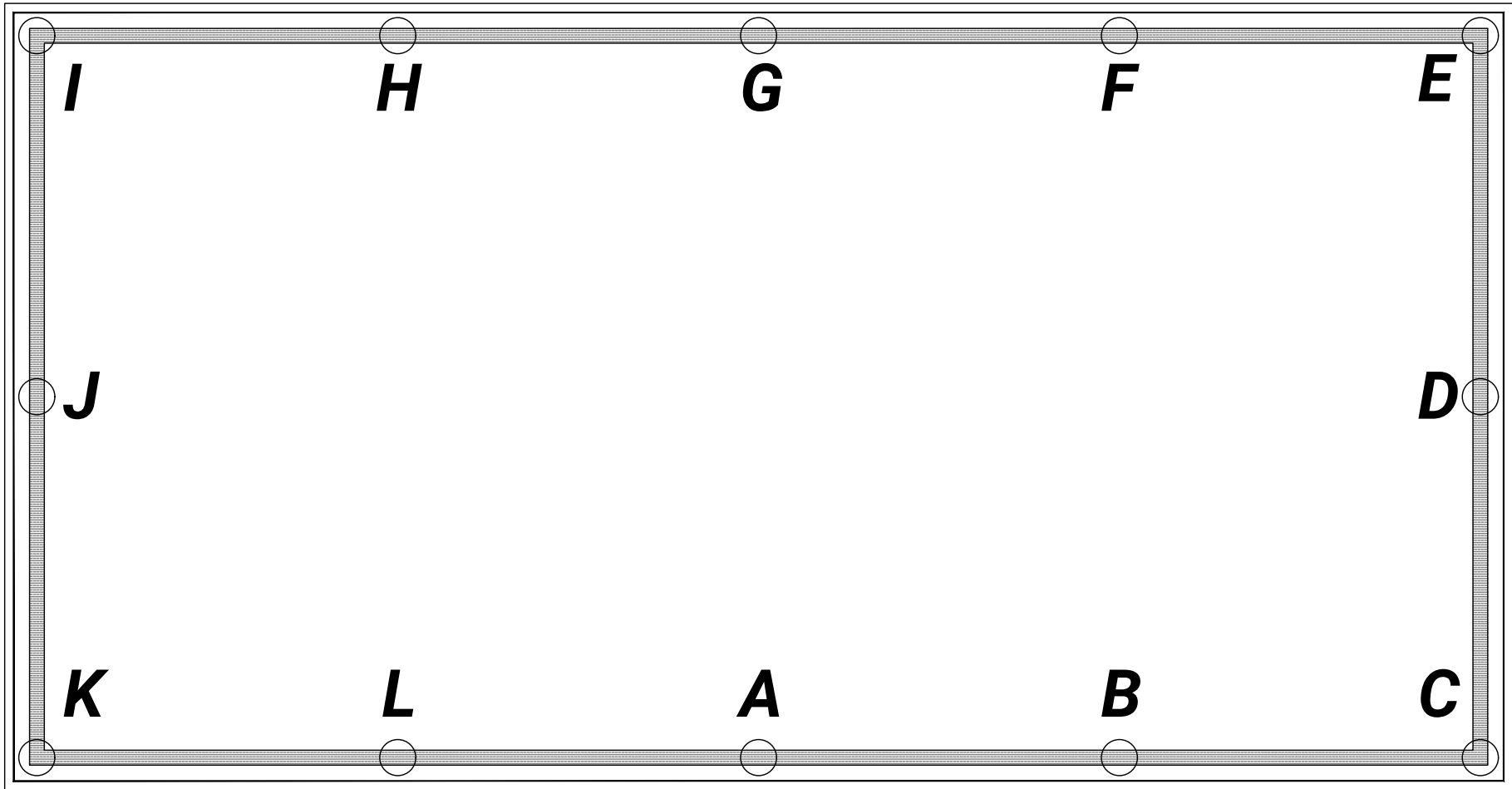
EL MONTE CART SHED

1300 VALLEY DR

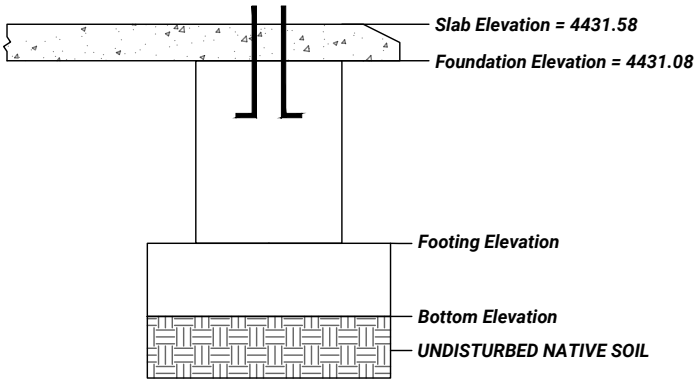
2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-8980 engineering.ogden-city.com

DRAWING NAME: Foundation Detail.dwg

PLOT DATE: 1/13/2026 12:15 PM



Elevation Breakdown				
Column	Slab Elevation	Foundation Elevation	Footing Elevation	Bottom Elevation
A	4431.58	4431.08	4427.96	4426.96
B	4431.58	4431.08	4427.02	4426.02
C	4431.58	4431.08	4427.02	4426.02
D	4431.58	4431.08	4425.10	4424.10
E	4431.58	4431.08	4425.01	4424.01
F	4431.58	4431.08	4424.86	4423.86
G	4431.58	4431.08	4424.51	4423.51
H	4431.58	4431.08	4424.87	4423.87
I	4431.58	4431.08	4425.35	4424.35
J	4431.58	4431.08	4426.03	4425.03
K	4431.58	4431.08	4429.05	4428.05
L	4431.58	4431.08	4428.78	4427.78



ELEVATION DETAIL

FD-2

SHEET 14

REVISION 0

REV	DATE	DESCRIPTION
0	MM/DD/YY	DESCRIPTION

PROFESSIONAL
Daniel G. Gibbs
CIVIL
STATE OF UTAH
NO. 46086-2008
EXP. 12/31/2026

DESIGNED
DBR
DATE
12/23/2025

DRAWN
DSG
CHECKED

DRAWING SCALE
H: 1" = 20' (22x34)
V: 1" = 5' (22x34)
This bar measures
on the original
drawing

FOUNDATION ELEVATIONS
EL MONTE CART SHED
1300 VALLEY DR

Ogden UTAH
Still Untamed™

2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-625-8980 engineering.ogden@ogdenutah.com

DRAWING NAME: Foundation Detail.dwg

PLOT DATE: 1/13/2026 12:15 PM

EP: 3+17.64
STATION=3+17.64
OFFSET=0.00
NORTHING=3609229.93
EASTING=1518078.73

SCALE: 1"=10'



ASPHALT/CONCRETE

- i Information
- ~~60 6" Concrete/6" UTDO~~
- ~~61 3" HMA/ 6" UTDO~~
- 62 Pre-Engineered Metal Building
- 63 Building Electrical Installation

CONST 15
SHEETS 17
PAGE

REV	DATE	DESCRIPTION
0		ISSUED FOR CONSTRUCTION



DESIGNED	DRAWN	CHECKED	DATE
			10/6/25
DSG	DSG		
H: 1" = 10'	V: N/A		

DRAWING SCALE
(22x34)
(11x17)
(11x17)

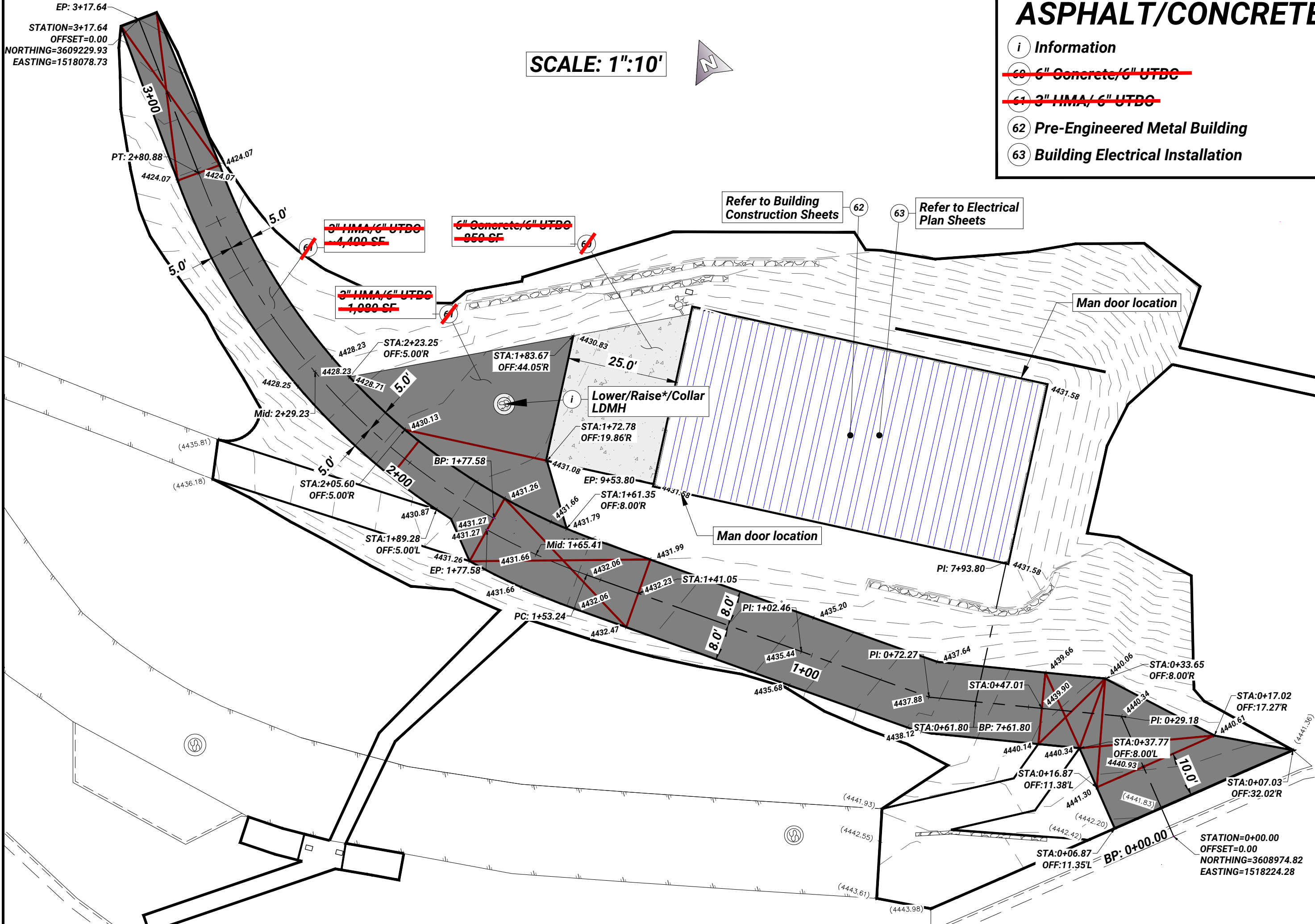
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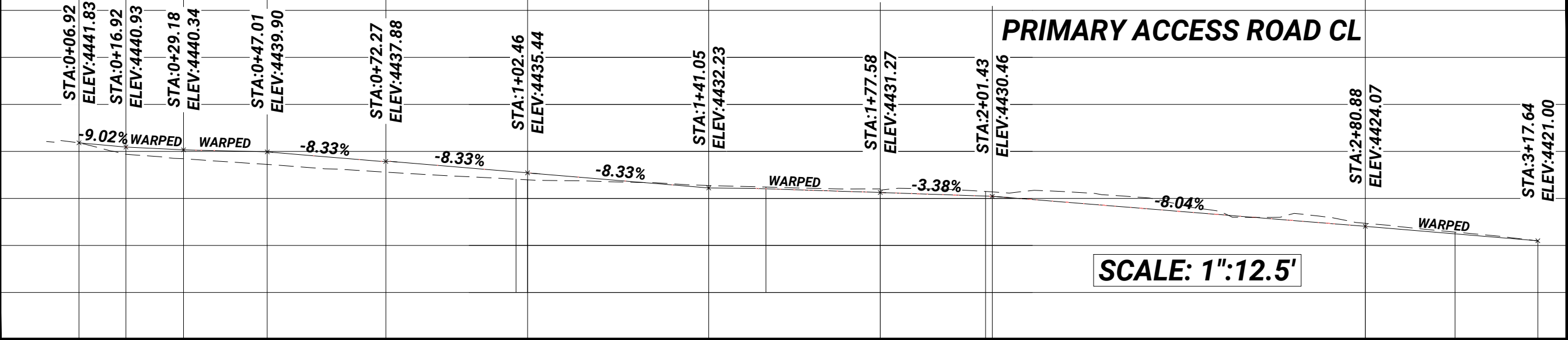
SURFACE IMPROVEMENTS
EL MONTE MAINTENANCE SHED
EL MONTE GOLF COURSE

DRAWING NAME: Dalton's Final - AAA NEW El Monte - MAINTENANCE SHED FINAL PERMITS & CHANGE LOGS 12:15 PM

Ogden UTAH
Still Untamed™

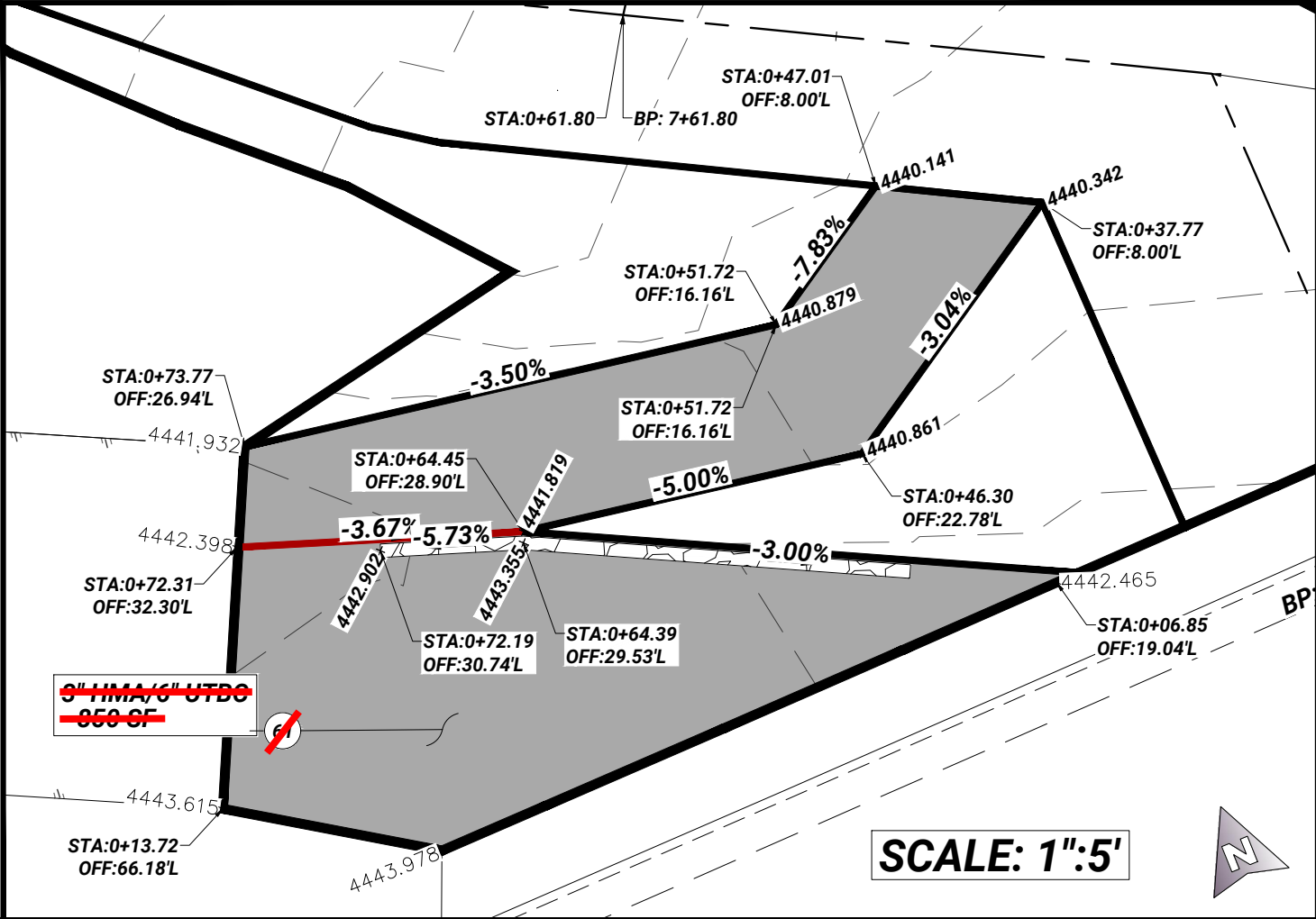
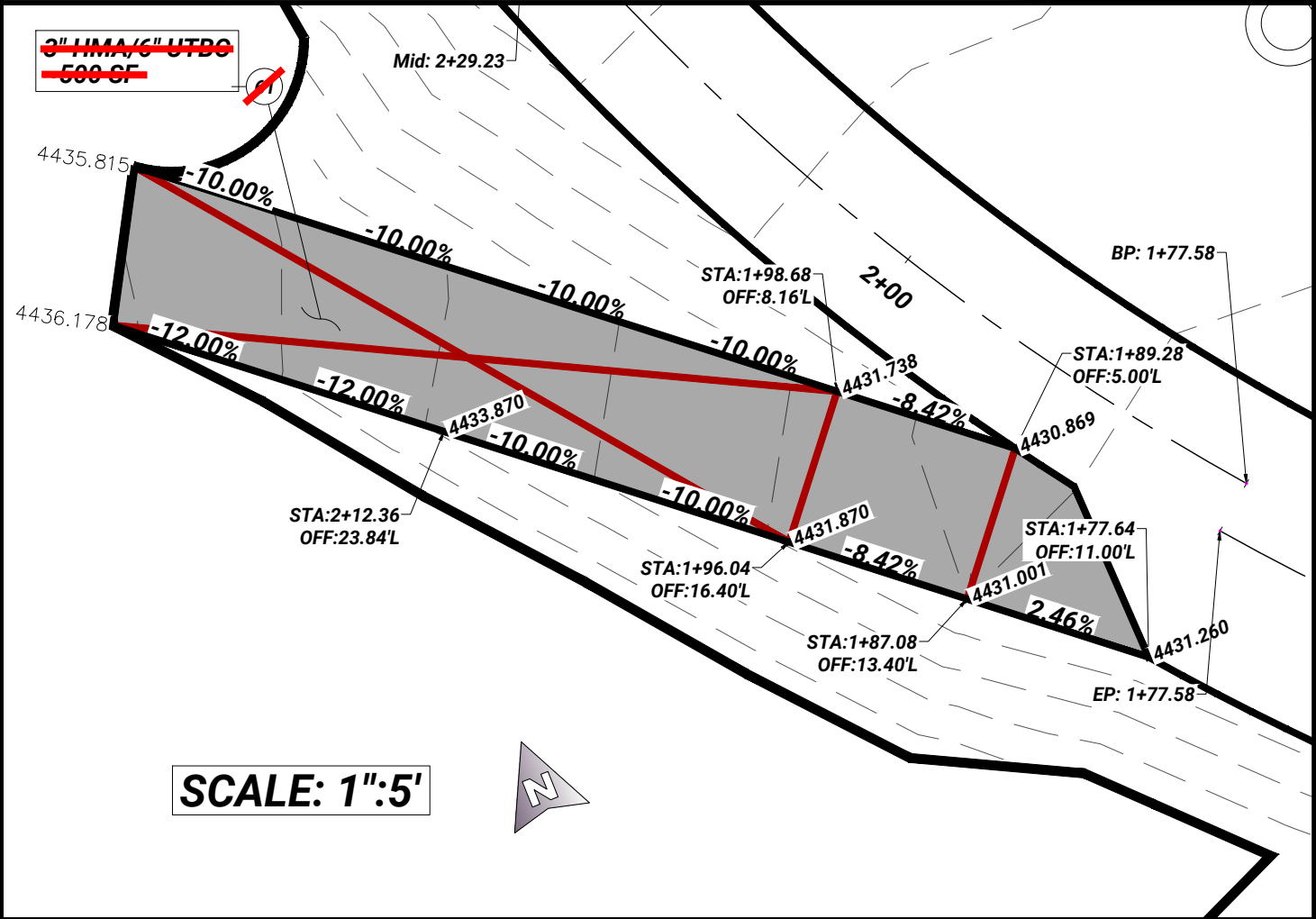
2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-9980 engineering.ogdencity.com





ASPHALT/CONCRETE

- i Information
- ~~60 6" Concrete/6" UTDC~~
- ~~61 3" HMA/ 6" UTDC~~



CONST 2

SHEETS 16 17

PAGE

REV	DATE	DESCRIPTION
0		MODIFY DESCRIPTION

PROFESSIONAL ENGINEER

Daniel G. Gillette

NO. 493694-2002

EXP. 12/31/2025

CIVIL

STATE OF UTAH

DESIGNED

DRAWN

CHECKED

DATE

10/6/25

DSG

DSG

DRAWING SCALE

H: 1" = 10'

V: N/A

1" = 10'

(22x34)

(11x17)

(22x34)

(11x17)

1" = 10'

(22x34)

(11x17)

(22x34)

(11x17)

MINOR ASPHALT WORK

EL MONTE MAINTENANCE SHED

EL MONTE GOLF COURSE

Ogden

UTAH

Still Untamed

2549 Washington Blvd, Suite 760 Ogden, UT 84401

Phone: 801-629-9980 engineering.ogden-city.com

DRAWING NAME: Dalton's Final - AAA NEW El Monte - MAINTENANCE SHED FINAL PERIODIC CHANGE.DWG: 12:15 PM

EP: 3+17.64
STATION=3+17.64
OFFSET=0.00
NORTHING=3609229.93
EASTING=1518078.73

Topsoil/Sod
Grade <2h:1v
~360 SF

PT: 2+80.88

Topsoil/Sod
Grade 2h:1v
~700 SF

D<12" Cobble
w/Marifi Weed Barrier
~36 SF

Topsoil/Sod
Grade 2h:1v
~650 SF

Topsoil/Sod
Match Grade
~200 SF

6" (t) Landscape Rock
on Marifi Weed Barrier
<2h:1v~240 SF

6" Concrete/6" UTBC
~84 SF

Place Gas Pump
Connect Electrical

SCALE: 1"=10'

Topsoil/Sod
Grade <2h:1v
~1,400 SF

3" HMA/6" UTBC
~100 SF

6" Concrete/6" UTBC
~84 SF

Diesel Pump (Future)

Topsoil/Sod
Grade <2h:1v
~350 SF

6" (t) Landscape Rock
on Marifi Weed Barrier
~270 SF

Great Basin
Seed Mix
~7000 SF

Common Import Fill
~2300 CY

Topsoil/Sod
Match Grade
~170 SF

4' Chain Link Fence
~150 LF

STATION=0+00.00
OFFSET=0.00
NORTHING=3608974.82
EASTING=1518224.28

Ogden City to Complete Landscape
& Irrigation Installation.
Planter areas will have water-wise shrubs
that will cover 50% of the individual areas
at mature growth.
Irrigation will be installed accordingly.

LANDSCAPING

i Information

~~70 4' Chainlink Fence~~

71 Install Gas Pump/Incl Electrical Wiring

72 6" Concrete/6" UTBC

~~70 Kentucky Blue Grass Sod (Short)~~

~~74 Kentucky Blue Grass Sod (Tall)~~

~~75 D<12" Cobble w/Marifi~~

~~76 6" (t) Landscape Rock w/Marifi~~

~~77 3" (t) HMA / 6" UTBC~~

~~78 Great Basin Seed Mix~~

REV	DATE	DESCRIPTION
0		ISSUED FOR CONSTRUCTION



DESIGNED	DRAWN	CHECKED	DATE
			10/6/25
DSG	DSG	DSG	
H: 1" = 10'	N/A	N/A	
V: N/A			

DRAWING SCALE
(22x34)
(11x17)
(11x17)

This drawing measures
exactly one inch on
the original drawing

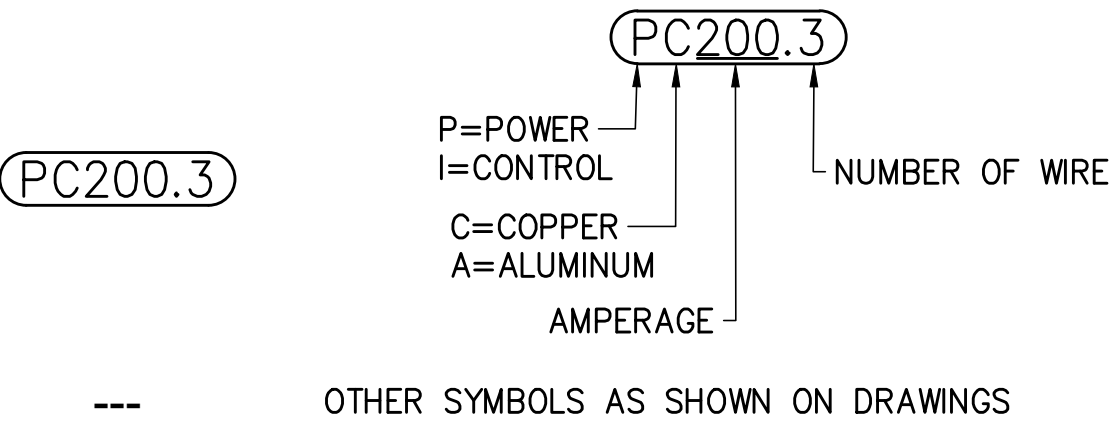
LANDSCAPING
EL MONTE MAINTENANCE SHED
EL MONTE GOLF COURSE

ELECTRICAL STANDARDS LEGEND
(ALL SYMBOLS MAY NOT BE USED IN DRAWINGS)

	DIRECT BURIED OR CONCRETE EMBEDDED CONDUIT
	CONDUIT RUN EXPOSED
	PROCESS FLOW
	PNEUMATIC SIGNAL
	ELECTRICAL SIGNAL
	PANEL OR ENCLOSURE
	STAND-BY GENERATOR ??? DENOTES SIZE
	GENERATOR MAIN BREAKER XXX DENOTES BREAKER SIZE
	WALL PACK FIXTURE. MOUNTING HEIGHT AS INDICATED IN DRAWINGS
	FLOOD LIGHT 7'-2" ABOVE FLOOR
	EMERGENCY EXIT SIGN 7'-2" ABOVE FLOOR
	EMERGENCY LIGHTING PACK 7'-2" ABOVE FLOOR
	HIGH/LOW BAY LED FIXTURE AS INDICATED IN DRAWINGS AND EQUIPMENT SCHEDULE
	1' X 4' LED FIXTURE AS INDICATED IN DRAWINGS AND EQUIPMENT SCHEDULE
	INDICATOR LAMP - LETTER INDICATES COLOR
	FLASHING BEACON - LETTER INDICATES COLOR
	MOTION SENSOR
	EXHAUST FAN
	OTHER LIGHT FIXTURE AS INDICATED IN DRAWINGS.
	AUDIBLE ALARM OR HORN
	UNDERGROUND JUNCTION/PULLBOX - SIZE 5 UNLESS OTHERWISE INDICATED
	STEEL JUNCTION/PULLBOX
	ELECTRIC MANHOLE
	FUSE; XX - DENOTES AMPERAGE
	120 V GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE
	120 V DUPLEX RECEPTACLE, WP (WEATHERPROOF)

	240 V RECEPTACLE
	DISCONNECT SWITCH
	CIRCUIT BREAKER - UPPER NUMBER INDICATES AMP TRIP RATING - LOWER NUMBER INDICATES POLES
	MOTOR OVERLOAD
	EQUIPMENT GROUND
	LIGHT SWITCH, SINGLE POLE, MOUNT 4'-6" ABOVE FLOOR ON BUILDING WALL
	LIGHT SWITCH, SINGLE POINT MOUNT 4'-6" ABOVE FLOOR ON BUILDING WALL, WEATHER PROOF
	RELAY
	TIMING RELAY
	TIMING DELAY RELAY
	CONTROL RELAY COIL
	MAGNETIC RELAY
	MOMENTARY PUSH-BUTTON SWITCH
	HAND-OFF-AUTO SELECTOR SWITCH
	NORMALLY CLOSED PUSHBUTTON
	NORMALLY OPEN PUSHBUTTON
	RUNNING TIME METER
	MOTOR STARTER - NUMBER INDICATES SIZE
	NORMALLY CLOSED CONTACTS
	NORMALLY OPEN CONTACTS
	CONTACTOR OR STARTER, NUMBER DENOTES NEMA SIZE
	MOTOR - NUMBER INDICATES HORSEPOWER RATING

	FLOW METER
	ELAPSED TIME METER
	LIMIT SWITCH
	INSTRUMENT TRANSFORMER
	CURRENT TRANSFORMER
	POWER TRANSFORMER
	THERMOSTAT
	GROUND FAULT INTERRUPTER
	AUXILIARY CONTACT
	INTERLOCK
	PUMP
	SOLENOID VALVE
	VALVE WITH MANUAL OPERATOR
	ELECTRIC MOTOR OPERATED VALVE (MODULATING OR NON-MODULATING)
	MOTOR OPERATED VALVE WITH LIMIT SWITCH ASSEMBLY
	COMPUTER/CONTROL INPUT
	COMPUTER/CONTROL OUTPUT
	CIRCUIT LABEL: LP1 - PANEL NAME XX - CIRCUIT NUMBER
	EXPLOSION PROOF SEAL OFF



GENERAL ELECTRICAL REQUIREMENTS

1. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE ORDINANCES AND REGULATIONS. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES. ALL WORK SHALL BE DONE IN A NEAT, PROFESSIONAL, FINISHED AND SAFE MANNER, UNDER COMPETENT SUPERVISION. INSTALL GROUNDING AND ALL ELECTRICAL WORK AS REQUIRED BY THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ANY OTHER APPLICABLE CODES.
2. MATERIAL, EQUIPMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.
3. VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND ALL OTHER FACTORS WHICH MAY AFFECT THE EXECUTION OF THIS WORK. INCLUDE ALL RELATED COSTS IN THE INITIAL BID PROPOSAL.
4. ALL MATERIALS SHALL BE NEW AND OF THE BEST QUALITY, MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, U.L. OR OTHER APPLICABLE STANDARDS. THE USE OF MANUFACTURER'S NAMES, MODELS AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, USEFULNESS AND BID PRICE. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING AND APPROVED BY THE ENGINEER BEFORE ORDERING.
5. PROTECT ALL ELECTRICAL MATERIAL AND EQUIPMENT INSTALLED UNDER THIS PROJECT AGAINST DAMAGE BY OTHER TRADES, WEATHER CONDITIONS OR ANY OTHER CAUSES. EQUIPMENT FOUND DAMAGED OR IN OTHER THAN NEW CONDITIONS WILL BE REJECTED AS DEFECTIVE.
6. LEAVE THE SITE CLEAN, REMOVE ALL DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT, WIRE SCRAPS AND ALL MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THE WORK DURING CONSTRUCTION. ALL COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS, LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
7. ALL CONDUCTORS SHALL BE THHN/THWN COPPER, STRANDED RATED AT 600 VOLTS UNLESS OTHERWISE NOTED. ALUMINUM WIRE WILL NOT BE ALLOWED.
8. ALL CONDUCTORS SHALL BE INSTALLED IN A CONDUIT SYSTEM EXCEPT WHERE NOTED IN DRAWINGS. REFER TO CONDUIT AND CONDUCTOR SCHEDULE FOR CONDUIT TYPE AND SIZE. WHERE CONDUIT SIZE IS NOT CALLED OUT, CONDUIT SHALL BE INSTALLED PER SPECIFICATION 16010 AND SIZED PER LATEST ADOPTED EDITION OF THE NEC.
9. ALL UNDERGROUND CONDUIT TO BE SCHEDULE 40 PVC. MINIMUM DEPTH 30", MINIMUM SIZE 3/4" EXCEPT AS NOTED IN DRAWINGS AND SPECIFICATIONS. ALL UNDERGROUND ELBOWS SHALL BE RIGID LONG SWEEP WRAPPED WITH 3M-50 10 MIL PIPE WRAP OR APPROVED EQUAL EXCEPT FOR COMMUNICATIONS CABLE AND CONDUIT WHEN SPECIFIED DIFFERENTLY ON THE DETAILED ELECTRICAL DRAWINGS.
10. ALL EXPOSED CONDUIT BELOW 4' AFG SHALL BE IMC OR RIGID STEEL CONDUIT, WITH A MINIMUM SIZE OF 1" EXCEPT AS NOTED IN DRAWINGS AND SPECIFICATIONS. EMT WILL BE PERMITTED, ONLY IN WALLS OR ABOVE 4' AFF. EXPOSED PVC CONDUIT SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE IN DRAWINGS.
11. ALL SAFETY SWITCHES AND OTHER DISTRIBUTION AND CONTROL ELECTRICAL EQUIPMENT SHALL BE RATED FOR HEAVY DUTY SERVICE.
12. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE GROUNDED BODY TYPE DEVICES.
13. THE CONTRACTOR SHALL INSTALL ALL INSTRUMENTS AND CONTROLS, INCLUDING HVAC AND CONTROL PANELS. THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL INSTRUMENT, CONTROL AND HVAC DRAWINGS FOR TOTAL SCOPE OF WORK.
14. ALL PANELS, DISCONNECTS AND SWITCHGEAR ON THE OUTSIDE OF THE BUILDING SHALL BE NEMA 3R TYPE ENCLOSURES UNLESS OTHERWISE SPECIFIED. CT CABINET AND METER BASE SHALL BE OUTSIDE THE BUILDING.
15. SURGE PROTECTIVE DEVICES (SPD) SHALL BE SIZED FOR 160KA UNLESS OTHERWISE NOTED.
16. ALL CONDUIT FOR ALL EQUIPMENT, INCLUDING EQUIPMENT FURNISHED BY OTHERS, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
17. ALL CONDUIT, WHERE LEAVING ELECTRICAL EQUIPMENT TO GO UNDERGROUND, MUST BE ANCHORED TO THE FOUNDATION WITH STAND-OFF BRACKETS TO ALLOW FOR SUFFICIENT CLEARANCE FOR FOOTINGS AND WALL STUDS ON THE WALLS IN THE BUILDING. ALL RGS CONDUIT AND ELBOWS USED UNDERGROUND WILL BE WRAPPED WITH AN APPROVED PIPE WRAP. (TYP. FOR ALL BUILDINGS)
18. ALL WIRING IN CLASS I HAZARDOUS LOCATIONS SHALL COMPLY WITH NEC 501. AS DEFINED BY NFPA 820.

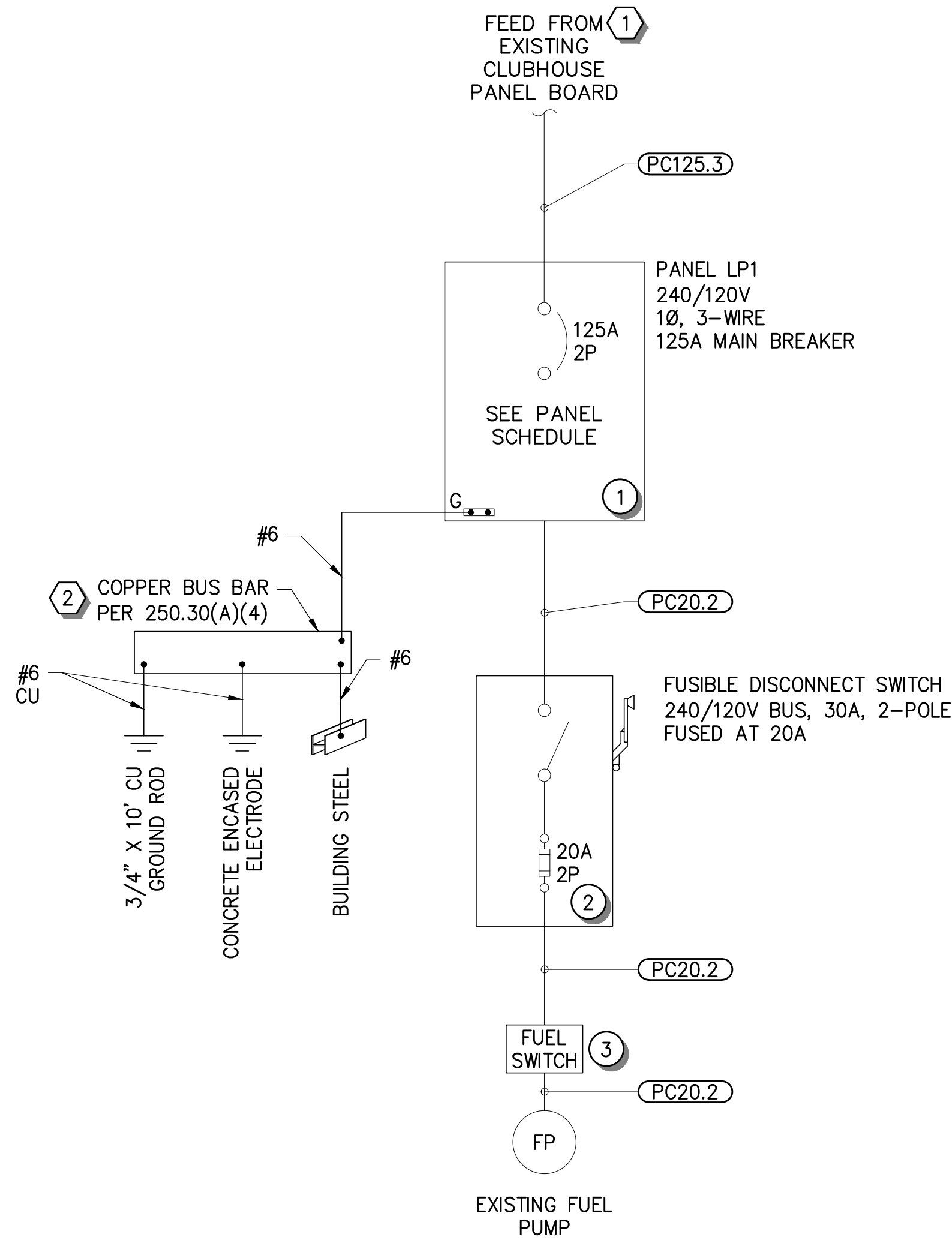
GENERAL ELECTRICAL ABBREVIATIONS

ACB	AIR CIRCUIT BREAKER	HMI	HUMAN MACHINE INTERFACE	MTU	MASTER TERMINAL UNIT	SE	SERVICE ENTRANCE
AFF	ABOVE FINISHED FLOOR	IC	INSTRUMENTATION CONDUIT	NC	NORMALLY CLOSED	SER	SERVICE ENTRANCE RATED
AFG	ABOVE FINISHED GRADE	IER	INTEGRATED EQUIPMENT RATING	NO	NORMALLY OPEN	SPC	SPARE CONDUIT
ATS	AUTOMATIC TRANSFER SWITCH	INST	INSTRUMENTATION CONDUIT	OL	MOTOR OVERLOAD	SPD	SURGE PROTECTIVE DEVICE
C	CONDUIT	JB	JUNCTION BOX	PB	PULL BOX	SPIC	SPARE INSTRUMENT CONDUIT
CB	CIRCUIT BREAKER	LCP	LOCAL CONTROL PANEL	PCP	PUMP CONTROL PANEL	SSSS	SOLID STATE SOFT START
CTRL	CONTROL	LP	LIGHTING PANEL	PLC	PROGRAMMABLE LOGIC CONTROLLER	TSP	TWISTED SHIELDED PAIR
DS	DISCONNECT SWITCH	MCB	MAIN CIRCUIT BREAKER	RGS	RIGID GALVANIZED STEEL CONDUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EMG	ELECTRICAL MANHOLE	MCP	MOTOR CIRCUIT PROTECTOR	PP	POWER PANEL	VFD	VARIABLE FREQUENCY DRIVE
EMT	ELECTRICAL METALLIC TUBING	MLO	MAIN LUG ONLY	RTU	REMOTE TERMINAL UNIT	WP	WEATHERPROOF

LIGHTNING PROTECTION

1. PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM BY VFC OR APPROVED COMPLYING WITH NFPA 780. SYSTEM TO INCLUDE: CABLING NETWORK, AIR TERMINALS, CONNECTIONS, SPLICES, BONDING, GROUND RING, GROUND RODS, AND ANY OTHER REQUIRED EQUIPMENT. ALL ROOF MOUNTED EQUIPMENT SHALL BE BONDED AND PROTECTED BY THE LIGHTNING PROTECTION SYSTEM. INSTALLER SHALL PROVIDE A UL MASTER LABEL FOR THE LIGHTNING PROTECTION SYSTEM UPON COMPLETION OF THE PROJECT.
2. REFER TO SPECIFICATION 16065SP FOR ADDITIONAL DETAILS.

REV NO.	COMMENT	DATE
6875 SOUTH 900 EAST SALT LAKE CITY, UTAH 84047 TEL 801.523.0100 · FAX 801.523.0990 www.sunrise-eng.com		
OGDEN CITY		
EL MONTE GOLF COURSE SHED ELECTRICAL ELECTRICAL NOTES AND SYMBOLS		
SEI NO. S	DESIGNED KRD	DRAWN GKP
CHECKED JRK	SHEET NO. 1 of 6	E100



PANEL LP1 EL MONTE GOLF COURSE SHED													CU Bus				
													10 KA SC Rating (RMS)				
VOLTAGE	PH	WIRE		PANEL SCHEDULE CIRCUIT										125 AMP MAIN CB			
240/120	1	3 –WIRE		LOAD (VA)			AMPS			LOAD (VA)							
CKT NO.	AMPS	POLE	DESCRIPTION	LIGHT	RECEP	OTHER	L1		L2		OTHER	RECEP	LIGHT	DESCRIPTION	POLE	AMPS	CKT NO.
1	20	1	FUEL DISCONNECT	0	0	696	5.8	12.2			0	0	1469	LIGHTING	1	20	2
3	20	1	COMPRESSOR	0	450	0			3.8	9.0	0	1080	0	RECEPTACLES	1	20	4
5	20	1	SPARE	0	0	0	0.0	0.0			0	0	0	SPARE	1	20	6
7	50	2	IRRIGATION PANEL	0	0	7200			30.0	0.0	0	0	0	SPARE	1	20	8
9	–	–	‘ ‘	0	0	0	30.0	0.0			0	0	0	SPARE	1	20	10
11		–		0	0	0			0.0	0.0	0	0	0	SPARE	1	20	12
				0	450	7896	48		43		0		1080	1469			
				Subtotal Watts			8346						2549	Subtotal Watts			
				Total Watts			10895						46	Average Amps			
NEC DIVERSIFIED LOAD CALCULATIONS																	
LIGHTING AND CONTINUOUS LOADS: (100% CONNECTED LOAD PLUS 25%) RECEPTACLES: (FIRST 10kVA @ 100%, REMAINDER @50%) ALL OTHER LOADS @ 100% MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED AT 125% PER NEC										1.5 kVA		Lighting Total kVA:		1.8			
										1.5 kVA		Receptacles Total kVA:		1.5			
										7.9 kVA		Other Loads Total kVA:		9.7			
										DIVERSIFIED TOTAL kVA					13.1		
										AVERAGE AMPS PER PHASE					54.4		

SHEET NOTES:


- ONE-LINE DIAGRAM SHOWS PROPOSED CONFIGURATION. CONTRACTOR SHALL CONFIRM ACTUAL CONFIGURATION WITH UTILITY PRIOR TO CONSTRUCTION AND PROVIDE ALL NECESSARY EQUIPMENT PADS, PULL BOXES OR OTHER ITEMS REQUIRED BY UTILITY.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OWNER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BACKFILL, COMPACTION, AND THE INSTALLATION OF CONDUIT SHOWN AS NEW OR TO BE EXTENDED TO NEW EQUIPMENT LOCATION.
- PROVIDE BONDING AND GREEN INSULATED GROUND FOR ALL ELECTRICAL ENCLOSURES PER LATEST EDITION OF NEC.

KEY NOTES

- CONNECT TO EXISTING 100A FEEDER BREAKER IN CLUBHOUSE PANEL. COMPLETE CIRCUITING WILL BE FIELD ROUTED. WORK WITH OWNER PRIOR TO INSTALLATION FOR PRESERVATION OF BUILDING INTEGRITY.
- BOND TO ALL ELECTRODES PRESENT PER NEC 250 AND LOCAL AHJ.

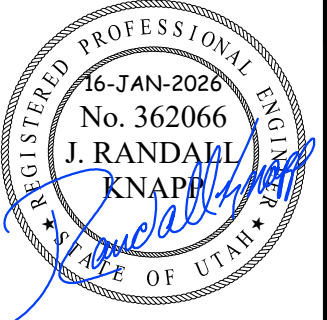
CONDUIT & CONDUCTOR SCHEDULE							
TYPE	CONDUCTOR						CONDUIT SIZE (5)
	USE	METAL	SETS	QTY	SIZE (AWG OR KCMIL)	GND (AWG OR KCMIL)	
PC125.3	POWER	COPPER	1	3	1	6	2"
PC050.3	POWER	COPPER	1	3	6	10	1"
PC20.2	POWER	COPPER	1	2	12	12	1"
PC002.0	POWER		1				1"
PC004.0	POWER		1				1-1/2"
GENERAL NOTES: •GROUND CONDUCTOR SHALL BE DELETED ON SERVICE ENTRANCE CONDUCTORS. •SIZE ALL CONDUITS IN ACCORDANCE WITH NEC CHAPTER 9, TABLE 1.							
KEYED NOTES: (1) REFER TO LATEST ADOPTED VERSION OF NEC ARTICLE 310.16 FOR 75C RATED COPPER. (2) 200% NEUTRAL (OR 2 NEUTRAL CONDUCTORS). (3) AMPACITY DERATED TO 80% DUE TO (4-6) CURRENT CARRYING CONDUCTORS IS BASED ON NEC 310.15(C)(1). (4) ALL UNDERGROUND CONDUIT AND CONDUCTORS SHALL BE INSTALLED PER SHEET E501 DETAIL E. (5) CONDUIT SIZE SHOWN SHALL BE USED UNLESS NOTED IN DRAWING. ALL CONDUIT SHALL BE IN COMPLIANCE PER NEC 2023.							

ELECTRICAL EQUIPMENT SCHEDULE					
(X)	DESCRIPTION	QUANTITY	MODEL / SPECIFICATION	MANUFACTURER	COMMENTS
1	PANEL LP1, 120/240V, 1Ø, 3-WIRE, 125A MAIN CB CU BUS 10 KAIC, 30 CIRCUIT	1	16010		
2	GENERAL DUTY FUSED DISCONNECT, 30A, 120/240V, 2-POLE, FUSED AT 20 AMPS	1	16010		
3	EXPLOSION PROOF FUEL SWITCH	1	DSDX910	EATON OR EQUAL	LOCKABLE AND TAMPER PROOF.
4	ELECTRICAL PRECAST PULL BOX, 12"x12"x6"	2	OLDCASTLE POLYMER 1212 / 16010	OLDCASTLE OR EQUAL	LID SHALL BE ENGRAVED WITH ELECTRICAL.



Know what's below.
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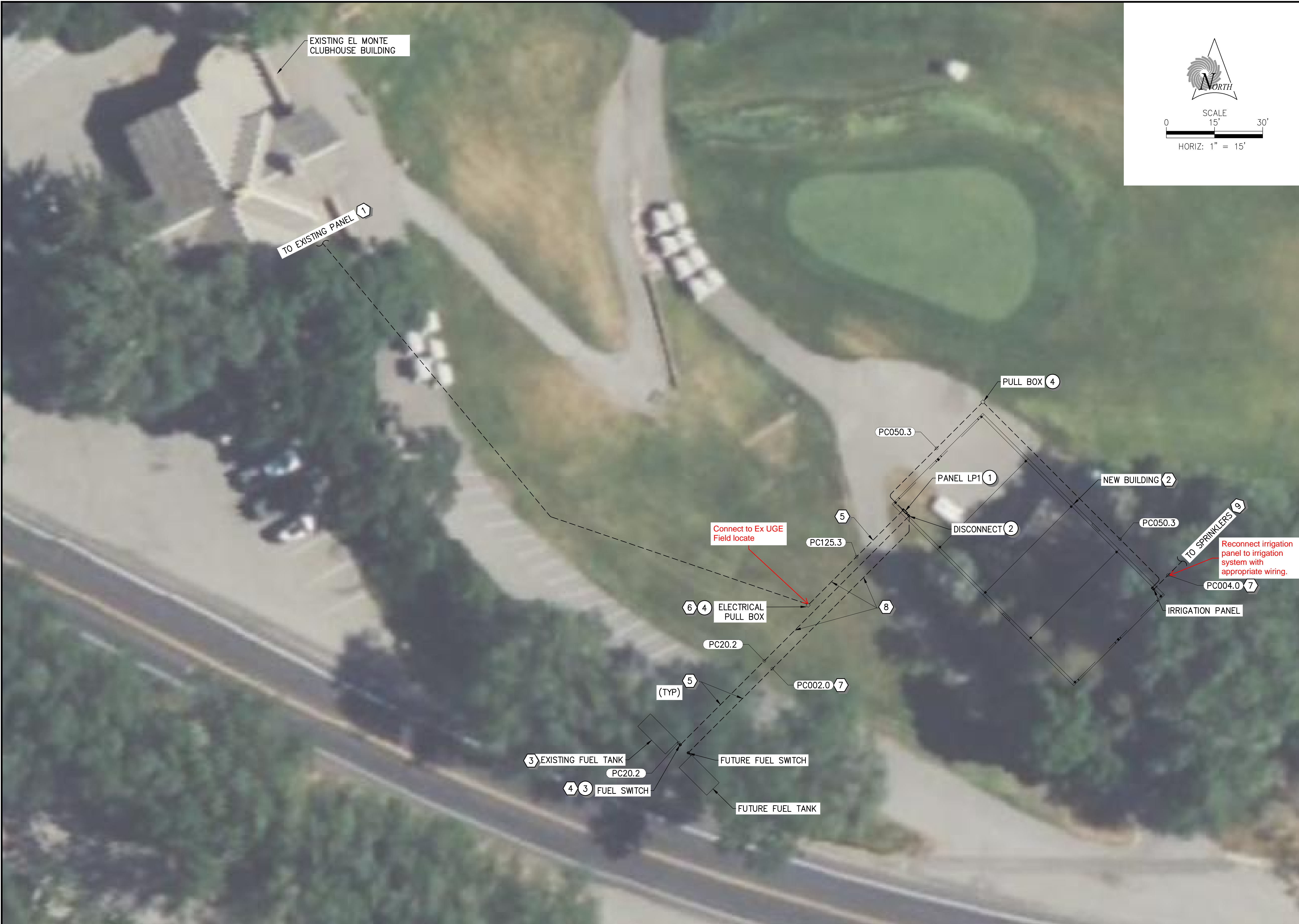
REV NO.	COMMENT	DATE



SUNRISE ENGINEERING
6875 SOUTH 900 EAST
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OGDEN CITY
EL MONTE GOLF COURSE SHED
ELECTRICAL
ONE-LINE & SCHEDULES

SEI NO. S	DESIGNED KRD	DRAWN GKP	CHECKED JRK	SHEET NO. 2 of 6	E201
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SHEET NOTES:

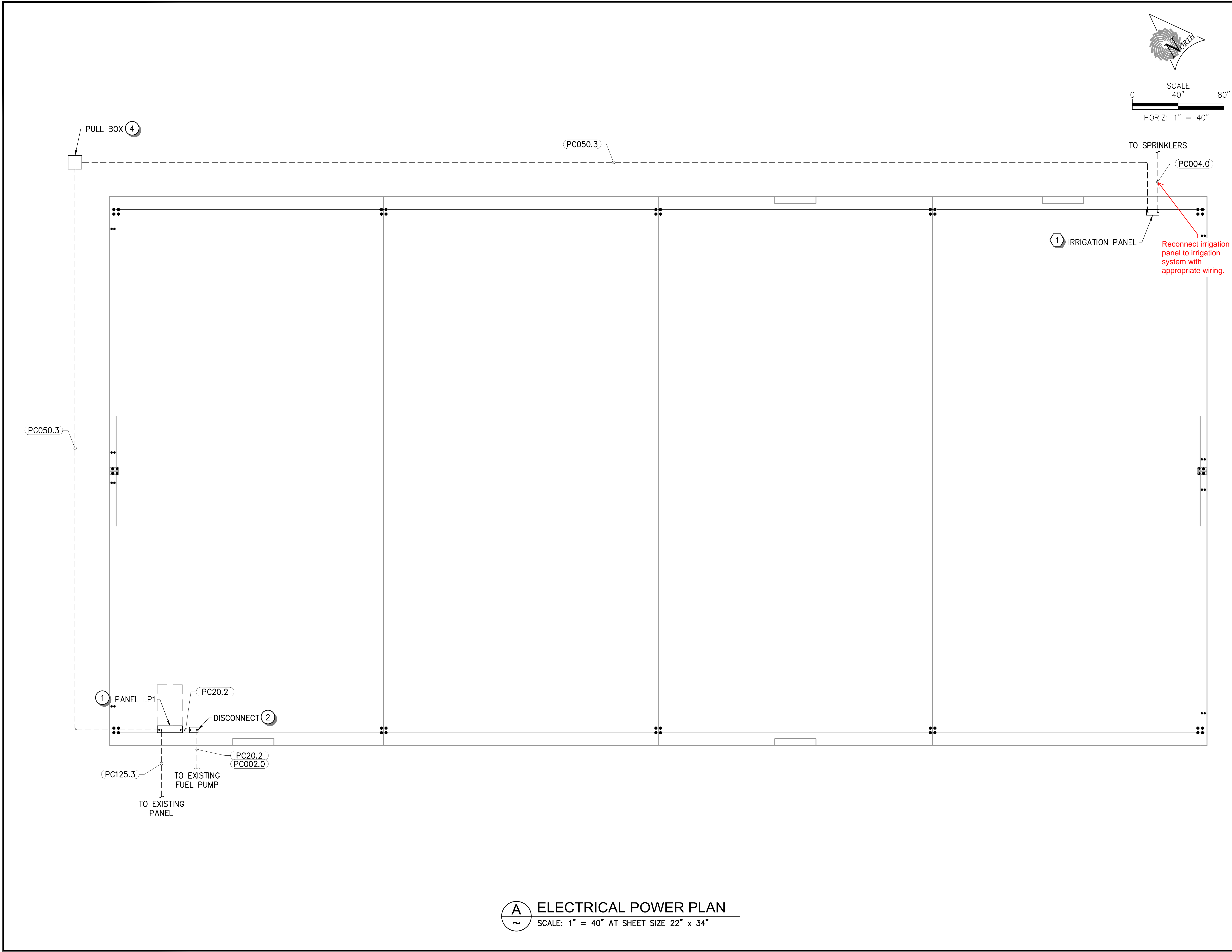
1. THE CONTRACTOR WILL BE RESPONSIBLE TO LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE ANY EXCAVATION IS PERFORMED. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO NEW CONDITION OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. NOT ALL CONDUITS ARE SHOWN. REFER TO CONDUIT AND CONDUCTOR SCHEDULE FOR INDIVIDUAL CONDUIT FILL REQUIREMENTS. CONDUIT LAYOUT SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD ROUTE AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS AND AVOID OTHER STRUCTURES AS REQUIRED.
3. REFER TO DRAWING E201 FOR CONDUIT AND CONDUCTOR IDENTIFICATION.
4. (X) DENOTES ELECTRICAL EQUIPMENT IDENTIFICATION. REFER TO DRAWING E201 FOR ELECTRICAL EQUIPMENT SCHEDULE.

KEY NOTES

1. CONTRACTOR SHALL COORDINATE WITH OWNER AND CONNECT TO EXISTING ELECTRICAL PANEL IN EXISTING CLUBHOUSE BUILDING. CONTRACTOR SHALL PROVIDE ALL CONDUIT, CONDUCTOR, BUILDING PENETRATIONS, CONDUIT SEALS AND ALL REQUIRED ACCESSORIES FOR AN OPERABLE SYSTEM.
2. BUILDING LOCATION IF APPROXIMATE COORDINATE WITH CIVIL PLANS FOR EXACT LOCATION, PAD AND GRADING WORK TO BE PERFORMED.
3. FUEL TANK TO BE MOVED BY OWNER. COORDINATE WORK WITH OWNER PRIOR TO INSTALLATION FOR FINAL LOCATIONS AND STAGING.
4. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE OR STAND FOR NEW FUEL SHUTOFF SWITCH WITH A LOCKABLE COVER, AT THE FUEL TANK. CONTRACTOR SHALL INSTALL A COMPLETE FUNCTIONAL SYSTEM WITH ALL NECESSARY SEAL OFFS AND OFFSETS PER NEC.
5. COORDINATE ALL ASPHALT CUTS WITH OWNER PRIOR TO WORK BEING PERFORMED. PATCHES ARE TO BE REPAIRED BACK TO OGDEN CITY STANDARDS AND SPECIFICATIONS.
6. CONTRACTOR SHALL LOCATE AND INSPECT EXISTING ELECTRICAL CONDUIT SYSTEM TO EXISTING BUILDING. INTERCEPT CONDUIT AT THIS LOCATION AND TIE INTO NEW BUILDING SERVICE. CONDUIT SHALL BE INSPECTED FOR NEC COMPLIANCE AND A MANDREL SHALL BE PULLED THROUGH EXISTING CONDUIT TO ENSURE SUITABILITY FOR USE. REPLACE CONDUIT IF DAMAGED OR UNDERSIZED.
7. CONDUIT ONLY. CONTRACTOR SHALL INSTALL PULL STRING AND CAP FOR FUTURE USE.
8. CONDUITS TO BE INSTALLED IN JOINT TRENCH WITH WATER LINE SEE CIVIL PLANS. MAINTAIN MIN OF 12" OF SEPARATION BETWEEN ELECTRICAL CONDUIT AND WATER LINE.
9. TIE TO EXISTING PULL AND VALVE BOXES AS DIRECTED BY OWNER.

REV. NO.	COMMENT	DATE
<div><div><div><div>REGISTERED PROFESSIONAL ENGINEER</div><div>16-JAN-2026</div><div>No. 362066</div><div>J. RANDALL KNAPP</div><div>STATE OF UTAH</div></div><div><div>SUNRISE ENGINEERING</div></div></div><div>6875 SOUTH 900 EAST SALT LAKE CITY, UTAH 84047 TEL 801.523.0100 • FAX 801.523.0990 www.sunrise-eng.com</div></div>		
OGDEN CITY		
EL MONTE GOLF COURSE SHED ELECTRICAL SITE PLAN		
SEI NO. S	DESIGNED KRD	DRAWN GKP
CHECKED JRK	SHEET NO. 3 of 6	E301

A ELECTRICAL SITE PLAN
~ SCALE 1" = 15' AT SHEET SIZE 22" x 34"





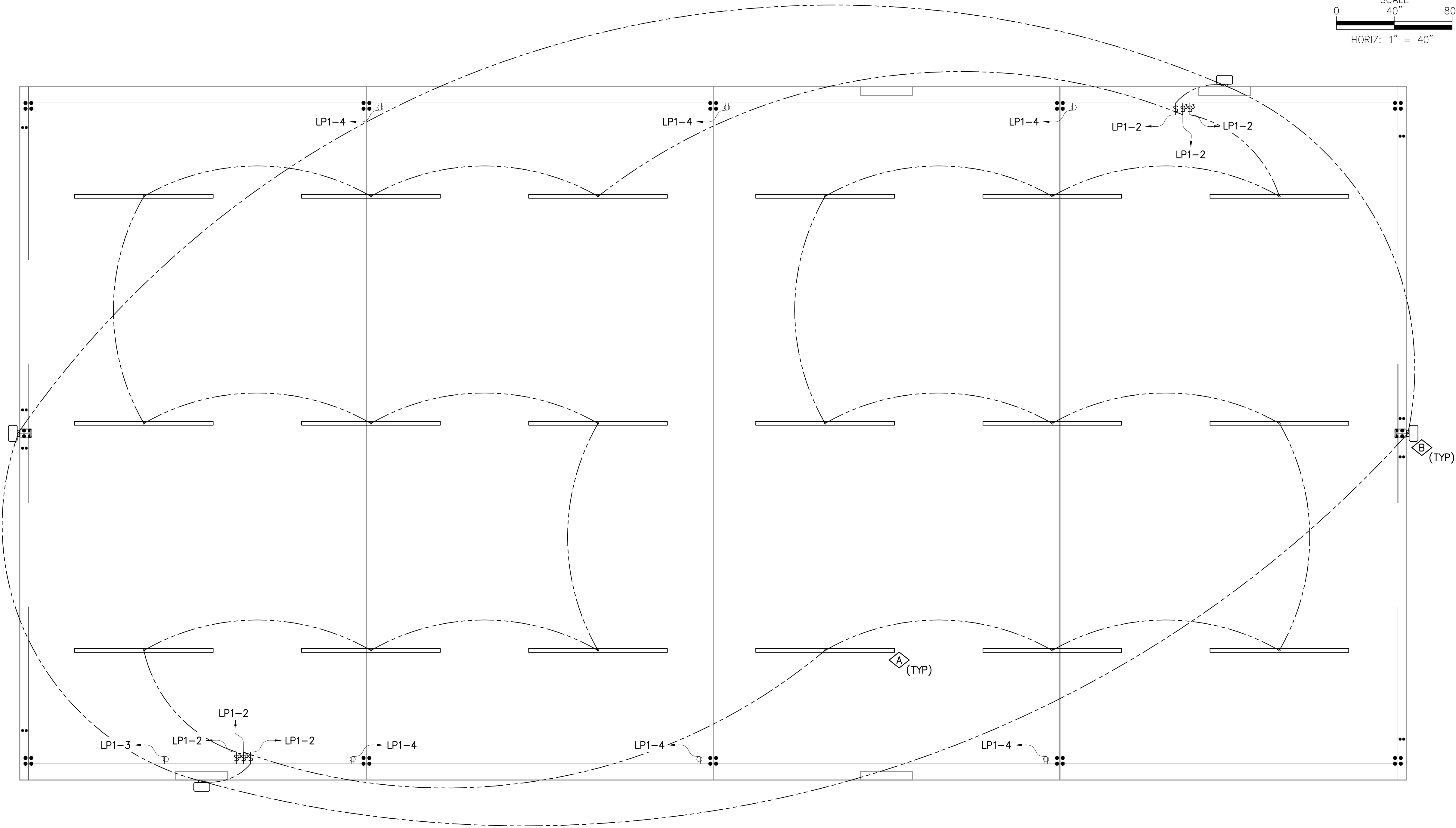
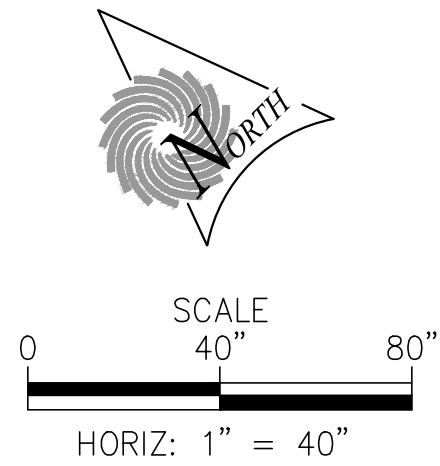
- SHEET NOTES:
1. CONTRACTOR TO COMPLY WITH GENERAL ELECTRICAL REQUIREMENTS ON DRAWING E100.
 2. CONDUITS SHOWN ARE SCHEMATIC ONLY. CONTRACTOR SHALL FIELD ROUTE CONDUIT AS NECESSARY TO AVOID OBSTACLES AND OTHER EQUIPMENT.
 3. NOT ALL CONDUITS ARE SHOWN FOR CLARITY. REFER TO CONDUIT AND CONDUCTOR SCHEDULE FOR ADDITIONAL CIRCUITING INFORMATION.
 4. SEE DRAWING E201 FOR CONDUIT AND CONDUCTOR SCHEDULE.
 5. (X) DENOTES ELECTRICAL EQUIPMENT IDENTIFICATION. REFER TO DRAWING E201 FOR ELECTRICAL EQUIPMENT SCHEDULE.
 6. PROVIDE LIGHTNING PROTECTION PER SPECIFICATION 16065SP AND DRAWING E100.

- KEY NOTES
- 1 EXISTING PANELS TO BE PROTECTED IN PLACE. COORDINATE ALL WORK WITH OWNER PRIOR TO AN WORK BEING PERFORMED.



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REV. NO.		COMMENT		DATE	
		 SUNRISE ENGINEERING			
		6875 SOUTH 900 EAST SALT LAKE CITY, UTAH 84047 TEL 801.523.0100 • FAX 801.523.0990 www.sunrise-eng.com			
OGDEN CITY					
EL MONTE GOLF COURSE SHED ELECTRICAL POWER PLAN					
SEI NO. S	DESIGNED KRD	DRAWN GKP	CHECKED JRK	SHEET NO. 4 of 6	E401



SHEET NOTES:

1. CONTRACTOR TO COMPLY WITH GENERAL ELECTRICAL REQUIREMENTS ON DRAWING E100.
2. CONDUITS SHOWN ARE SCHEMATIC ONLY. CONTRACTOR SHALL FIELD ROUTE CONDUIT AS NECESSARY TO AVOID OBSTACLES AND OTHER EQUIPMENT.
3. NOT ALL CONDUITS ARE SHOWN FOR CLARITY. REFER TO CONDUIT AND CONDUCTOR SCHEDULE FOR ADDITIONAL CIRCUITING INFORMATION.
4. SEE DRAWING E201 FOR CONDUIT AND CONDUCTOR SCHEDULE.
5. (X) DENOTES ELECTRICAL EQUIPMENT IDENTIFICATION. REFER TO DRAWING E201 FOR ELECTRICAL EQUIPMENT SCHEDULE.
6. PROVIDE LIGHTNING PROTECTION PER SPECIFICATION 16065SP AND DRAWING E100.

ELECTRICAL LIGHTING FIXTURE SCHEDULE					
ITEM #	DESCRIPTION	QUANTITY	MODEL / SPECIFICATION	MANUFACTURER	COMMENTS
A	CSS L96 8000 LUMEN STRIP LIGHTING FIXTURE	18	CSS L96 8000LM UVOLT 40K 80CRI 76W	LITHONIA OR APPROVED EQUAL	
B	D-SERIES EXTERIOR LED WALL LUMINAIRE	4	DSXW1 LED 10C 700 40K T4M MVOLT DDBXB 26W	LITHONIA OR APPROVED EQUAL	OPTIONAL PHOTOCELL (PE) TO BE PROVIDED WITH LIGHTING FIXTURE

A ELECTRICAL LIGHTING AND RECEPTACLE PLAN
SCALE: 1"= 40" AT SHEET SIZE 22" x 34"



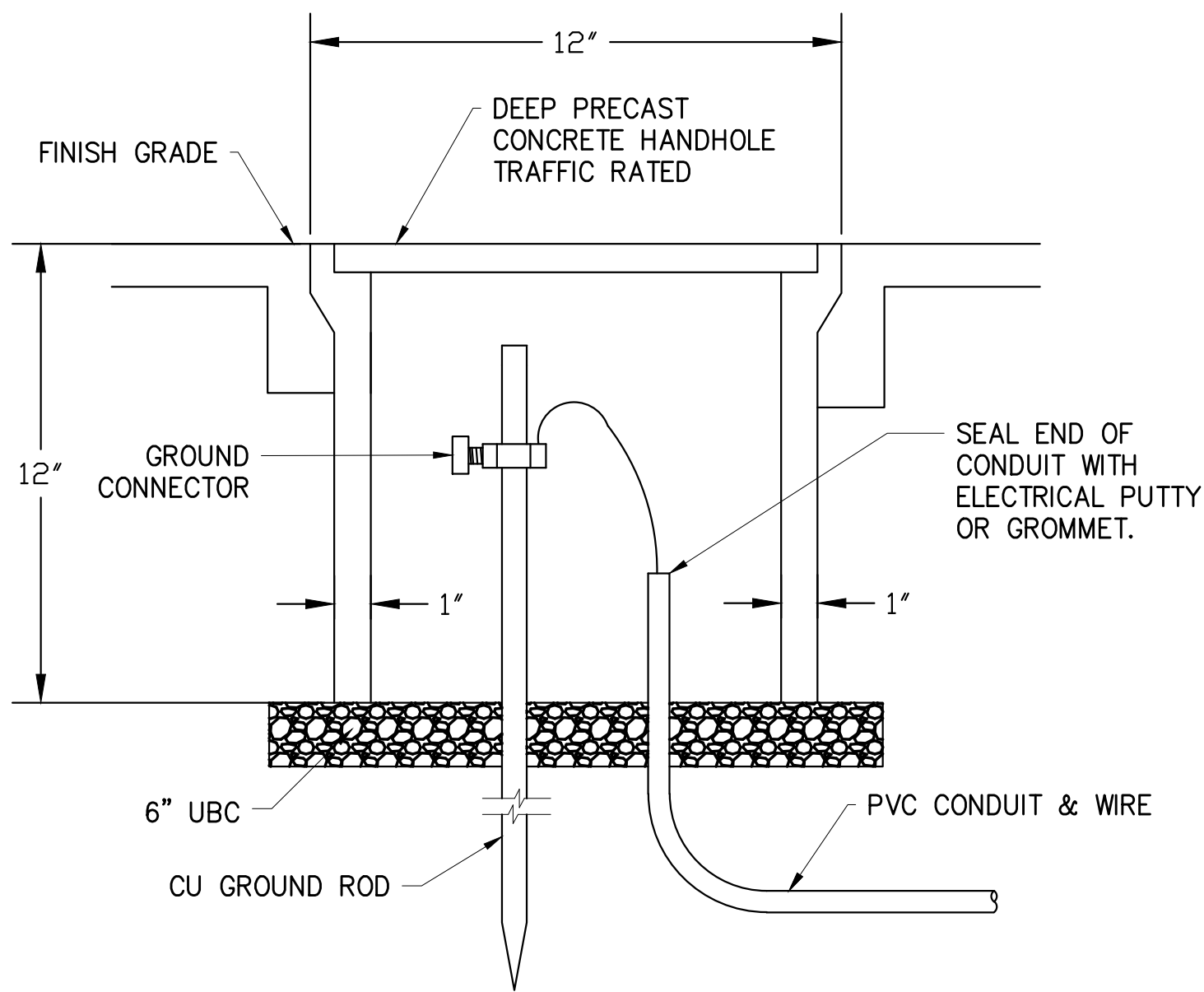
REV. NO.	COMMENT	DATE
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6875 SOUTH 900 EAST
SALT LAKE CITY, UTAH 84047
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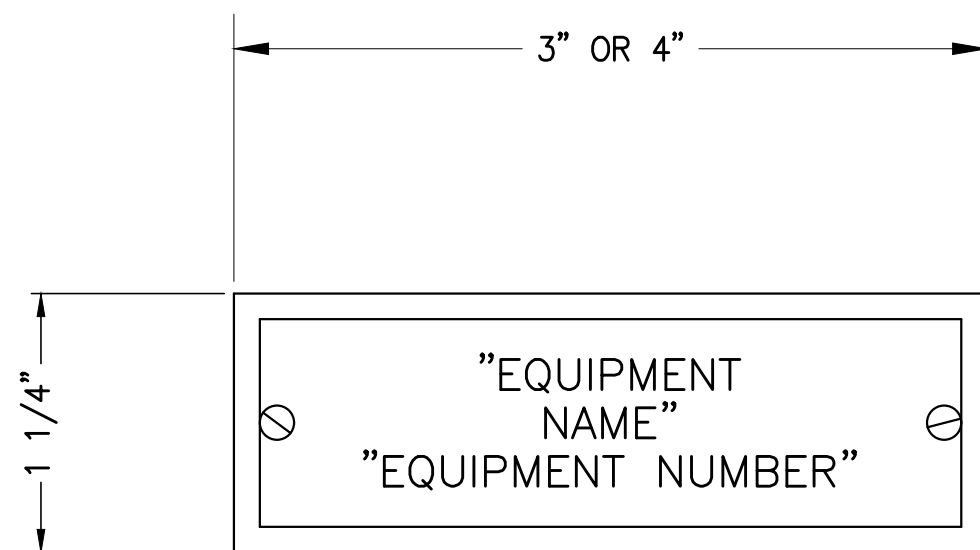
OGDEN CITY

EL MONTE GOLF COURSE SHED
ELECTRICAL
LIGHTING & RECEPTACLE PLAN

SEI. NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	
S	KRD	GKP	KRD	5 of 6	E402



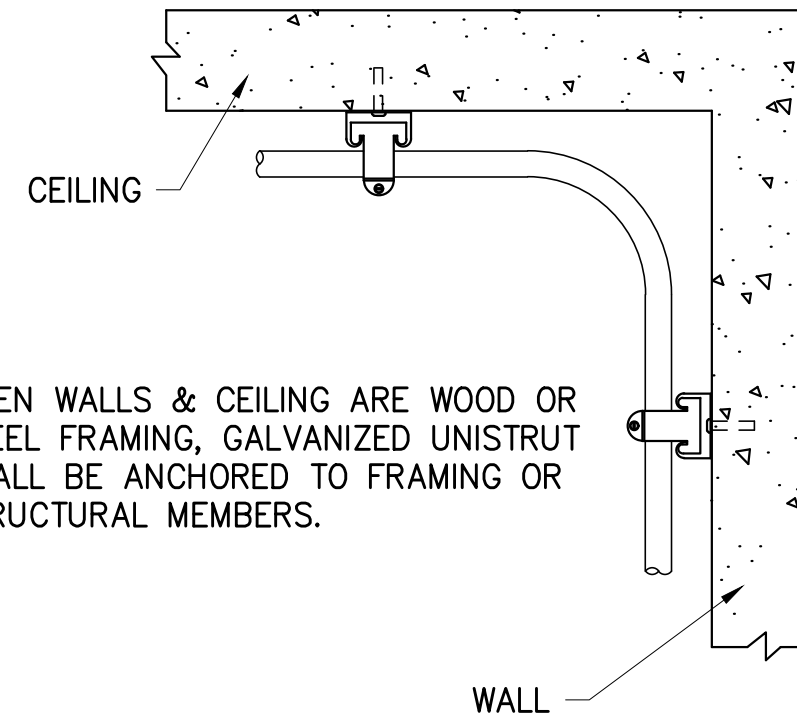
A DETAIL - GROUND WELL
N.T.S.



1. ALL LETTERS TO BE WHITE 1/4" HIGH, ON A BLACK BACKGROUND UNLESS NOTED OTHERWISE.
2. ALL NAMEPLATES TO BE MOUNTED ON THE VERTICAL CENTER LINE OF THE CUBICLE OR DEVICE.
3. ATTACH ALL NAMEPLATES WITH STAINLESS STEEL SCREWS.
4. PROVIDE BLANK NAMEPLATES FOR ALL SPARE AND AN ADDITIONAL TEN PERCENT FOR FUTURE DEVICES.

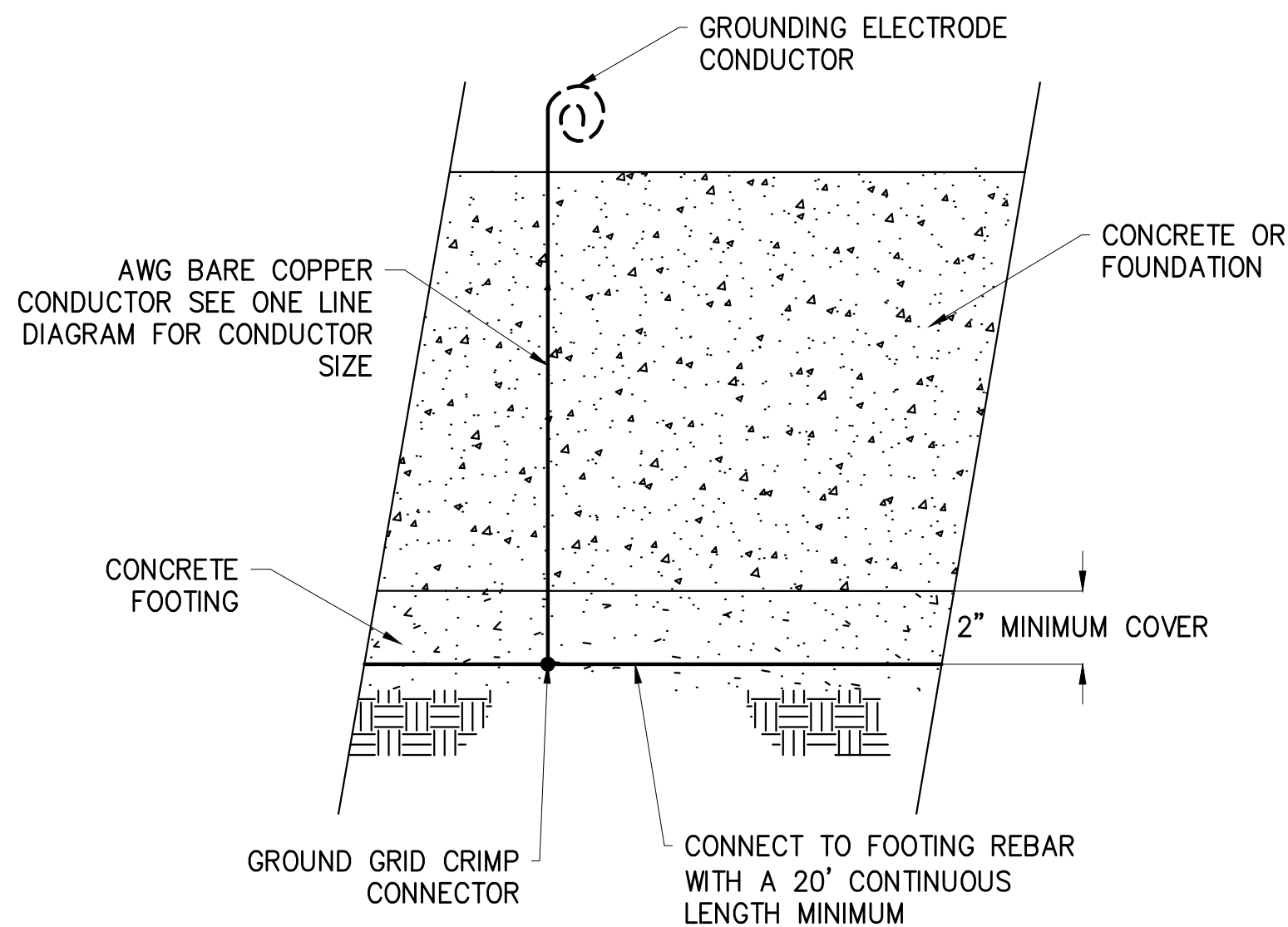
B DETAIL - NAMEPLATE
N.T.S.

7/8" GALVENIZED UNISTRUT TO BE ANCHORED TO THE WALL & CEILING, THEN CONDUIT SHALL BE RUN AND ATTACHED WITH UNISTRUT STRAPS.

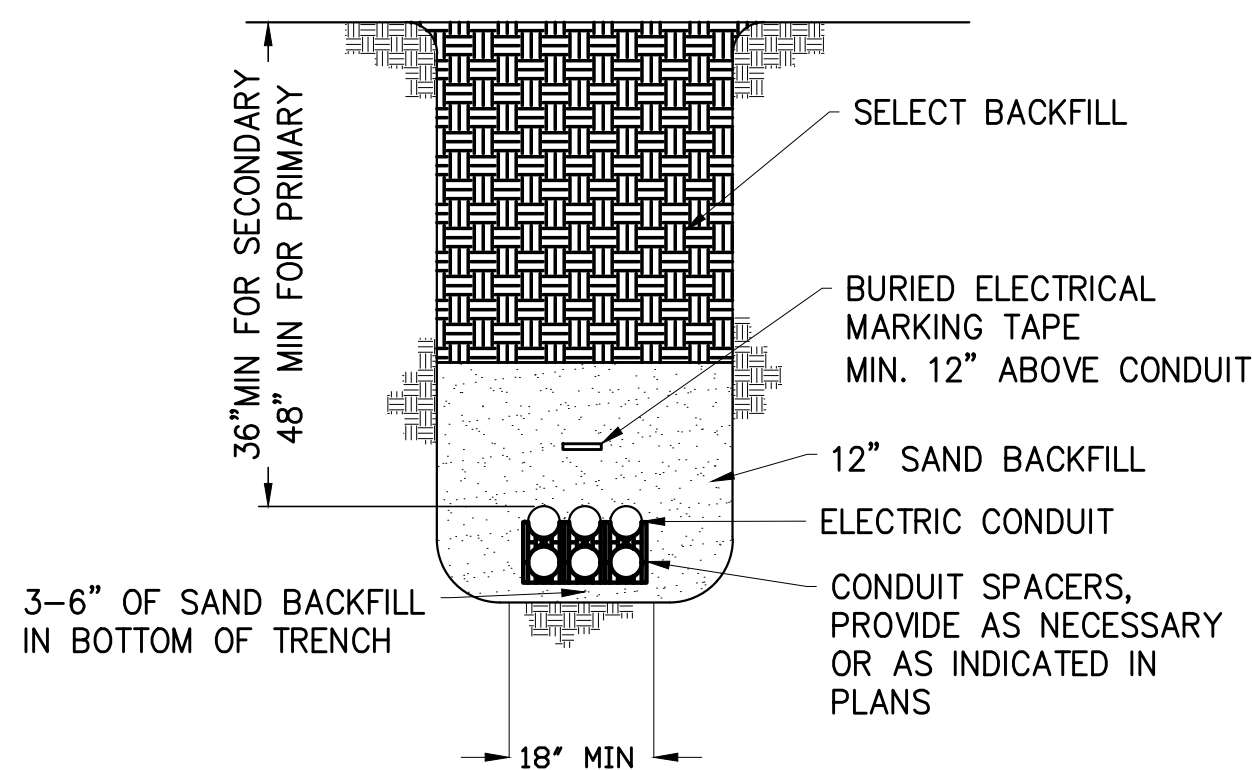


WHEN WALLS & CEILING ARE WOOD OR STEEL FRAMING, GALVANIZED UNISTRUT SHALL BE ANCHORED TO FRAMING OR STRUCTURAL MEMBERS.

C DETAIL - CONDUIT MOUNT
N.T.S.

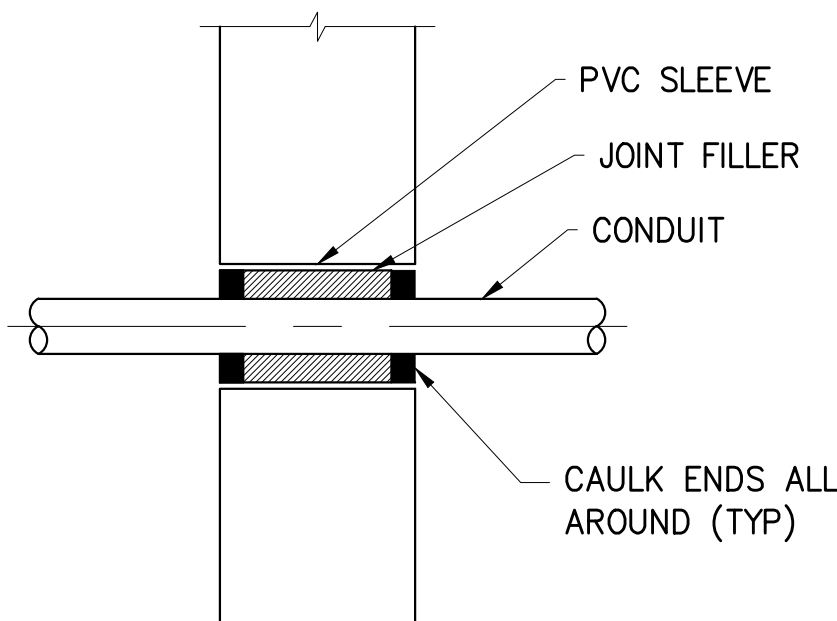


D DETAIL - UFER CONCRETE ENCASED
N.T.S.



1. WARNING TAPE MUST BE PLACED ON TOP OF CONDUIT (5 MILS THICKNESS)
2. ALL TRENCHES MUST BE INSPECTED PRIOR TO BACKFILLING
3. TRENCHES SHOULD BE SPOT BACKFILLED TO PREVENT MOVEMENT OF TAPE DURING BACKFILL.
4. SELECT BACKFILL MUST BE COMPACTED IN 1 FOOT LIFTS TO PREVENT SETTLING.

E DETAIL - UNDERGROUND CONDUIT POWER CABLE TRENCH
N.T.S.



F CONDUIT PENETRATION
N.T.S.

811 Know what's below.
Call before you dig.
1-800-662-4111

REV. NO.	COMMENT	DATE
16-JAN-2026	No. 362066	J. RANDALL KNAPP
SUNRISE ENGINEERING		
6875 SOUTH 900 EAST SALT LAKE CITY, UTAH 84047 TEL 801.523.0100 · FAX 801.523.0990 www.sunrise-eng.com		
OGDEN CITY		
EL MONTE GOLF COURSE SHED ELECTRICAL DETAILS		
SEI NO. S	DESIGNED KRD	DRAWN GKP
CHECKED JRK	SHEET NO. 6 of 6	E501

Builder/Contractor Responsibilities

Drawing Validity- These drawings, supporting structural calculations and design certification are based on the order documents as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

Builder Acceptance of Drawings- Approval of the manufacturer's drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer's interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC COSP June 2016 Section 4.4.1)

Code Official Approval- It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

Building Erection -The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector (AISC COSP June 2016 Section 7.10.3).

Discrepancies - Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC COSP June 2016 Section 3.3)

Materials by Others -All interface and compatibility of any materials not furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials if furnished as a part of the order documents, the manufacturers assumptions will govern.

Modification of the Metal Building from Plans - The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or braces, from that shown on these plans could affect the structural integrity of the building. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

Foundation Design- The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA 06 Sections 3.2.2 and A3)

Shimming - In accordance with Section 6.10 of Chapter 4 Common Industry Practices in the Metal Building Systems Manual, shimming is a normal part of erection and is not subject to claim.

Building Descriptions			
Building ID	Width	Length	Height
Building A	40'-0	80'-0	16'-0



Download panel installation manuals from:
www.CBBmanuals.com

Descargue los manuales de instalación del panel desde:
www.CBBmanuals.com



Sales: 877.268.3553
Muellerinc.com

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Field Services: 844.840.4603
field.services@cornerstone-bb.com

DESIGN CRITERIA

Building Code 2021 IBC
Building Risk Category Normal (Risk Category II)
Roof Dead Load
Superimposed 2.22 psf
Collateral 1.00 psf
(1.00 psf Other)
Roof Live Load 20.00 psf reduction allowed

Snow
Ground Snow Load (Pg) 43.00 psf
Snow Importance Factor (I) .. 1.00
Snow Exposure Factor (Ce) .. 0.90
Thermal Factor (Ct) 1.00
Slope Factor (Cs) 1.00
Sloped Roof Snow (Ps) 27.09 psf
Minimum Roof Snow Load (Pm) : 30.00 psf

Wind
Ultimate Wind Speed (Vult) .. 110 mph
Nominal Wind Speed (Vasd) .. 85 mph (IBC section 1609.3.1)
Serviceability Wind Speed .. 74 mph
Ground Elevation Factor 0.85 (4458 ft ASL)
Wind Exposure Category C
Exposure Coefficient (MWFRS): 0.860
Enclosure Classification Enclosed Building
Internal Pressure Coef (GCp1): 0.18/-0.18
Unfactored Wall Loads for components not provided by building manufacturer:
Zone 5 Areas (within 4.00' of corner) : 20.82 psf pressure -27.76 psf suction
Zone 4 Areas (away from corners) : 20.82 psf pressure -22.55 psf suction
These values are the maximum values required based on a 10 sq ft area.
Components with larger areas may have lower wind loads.

Seismic
Seismic Importance Factor (Ie): 1.00
Seismic Design Category D
Soil Site Class D Stiff Soil (Default)
Ss 1.351 g Sds 1.081 g
Sl 0.498 g Sd1 0.598 g
Analysis Procedure Equivalent Lateral Force
Column Line 1-5 SWA & SWC
Basic Force Resisting System C4 B3
Response Modification Coefficient (R) 3.50 3.25
Seismic Response Coefficient (Cs) 0.309 0.333
Design Base Shear in kips (V) 6.32 6.26
Basic Structural System (from ASCE 7-16 Table 12.2-1)
B3 - Ordinary Steel Concentrically Braced Frame
C4 - Ordinary Steel Moment Frame

DEFLECTION CRITERIA

The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length.

BUILDING DEFLECTION LIMITS BLDG-A

Roof Limits	Rafters	Purlins	Panels
Live: L/	180	150	60
Snow: L/	180	180	60
Serviceability Wind: L/	180	180	60
Total Gravity: L/	120	120	60
Total Uplift: L/	N/A	N/A	60
Frame Limits	Sidesway		
Live: H/	60		
Snow: H/	60		
Serviceability Wind: H/	60		
Seismic Drift: H/	40		
Total Gravity: H/	60		
Service Seismic: H/	40		
Wall Limits	Limit		
Total Wind Panels: L/	60		
Total Wind Girts: L/	90		
Total Wind EW Columns: L/	120		

The Service Seismic limit as shown here is at service level loads.

Drawing Index

Page	Description
F1	Anchor Rod Setting Plan
F2	Anchor Rod Details
F3-F4	Reactions
E1	Cover Sheet
E2	Primary Steel
E3	Roof Framing
E4	Roof Sheetting RPA & RPC
E5	Sidewall Framing Sheetting SWA
E6	Sidewall Framing Sheetting SWC
E7	Endwall Framing Sheetting EWB
E8	Endwall Framing Sheetting EWD
E9	Cross Section at Frame Line 1
E10	Cross Section at Frame Line 2
E11	Cross Section at Frame Line 3
E12	Cross Section at Frame Line 4
E13	Cross Section at Frame Line 5
E14	Connection Detail
R1-R3	Erection Guides
R4-R12	Construction Drawings

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, or ASTM A1011 with 55 ksi min. yield, except flanges wider than 12" and thicker than 3/8", all flanges thicker than 1", and all webs thicker than 3/8" are 50 ksi min. yield. Rod X-bracing conforms to ASTM A529 or ASTM A572 with 50 ksi min. yield. Cable X-bracing conforms to ASTM A475 7 Strand Extra High-Strength grade. Hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with 50 ksi min. yield. Hot rolled angles, other than flange braces, conform to ASTM A36 minimum. Round and rectangular HSS conforms to ASTM A500 Grade B. Cold-formed steel secondary framing Members conform to ASTM A1011 or ASTM A653 Grade 55 with 55 ksi min. yield. For Canada, material properties conform to CAN/CSA G40.20/G40.21 or equivalent.

Unless otherwise noted, special inspection of fabricated items is not required. Per IBC section 1704.2.5.1, fabricator is approved to perform such work without special inspection through maintenance of IAS AC 472 certification MB-136.

Bolted joints with A325 Type 1 bolts greater than 1/2" diameter are specified as pre-tensioned joints in accordance with the most recent edition of the RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts. Pre Tensioning can be accomplished by using the turn-of-nut method of tightening, calibrated wrench, twist-off-type tension-control bolts or direct-tension indicator as acceptable to the Inspecting Agency and Building Official. Installation inspection requirements for pre-tensioned joints (Specification for Structural Joints Section 9.2) using turn-of-nut method is suggested. The connections on this project are not slip critical.

Design criteria as noted is as given within order documents and is applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the metal building manufacturer nor the certifying engineer declares or attests that the loads as designated are proper for local provisions that may apply or for site specific parameters. The design criteria is supplied by the builder, project owner, or an Architect and/or Engineer of Record for the overall construction project.

This project is designed using manufacturer's standard serviceability criteria. Generally this means that all deflections are within typical performance limits for normal occupancy and standard metal building products.

The metal building manufacturer has not designed the structure for snow accumulation loads at the ground level which may impose snow loads on the wall framing provided by the manufacturer.

This metal building system is designed as an Enclosed Building. Exterior and/or operable components including, but not limited to, doors, windows, vents, etc. ("Components") must be designed to withstand the required component and cladding wind pressures specified by the building code. In order to maintain the metal building system's Enclosed Building condition, all Components shall be closed when wind velocities reach half the designed wind load for the metal building system as shown on the drawings and design criteria documentation. Failure to maintain the metal building system's Enclosed Building condition will violate and void all warranties and certifications applicable to the material supplied by the metal building manufacturer.

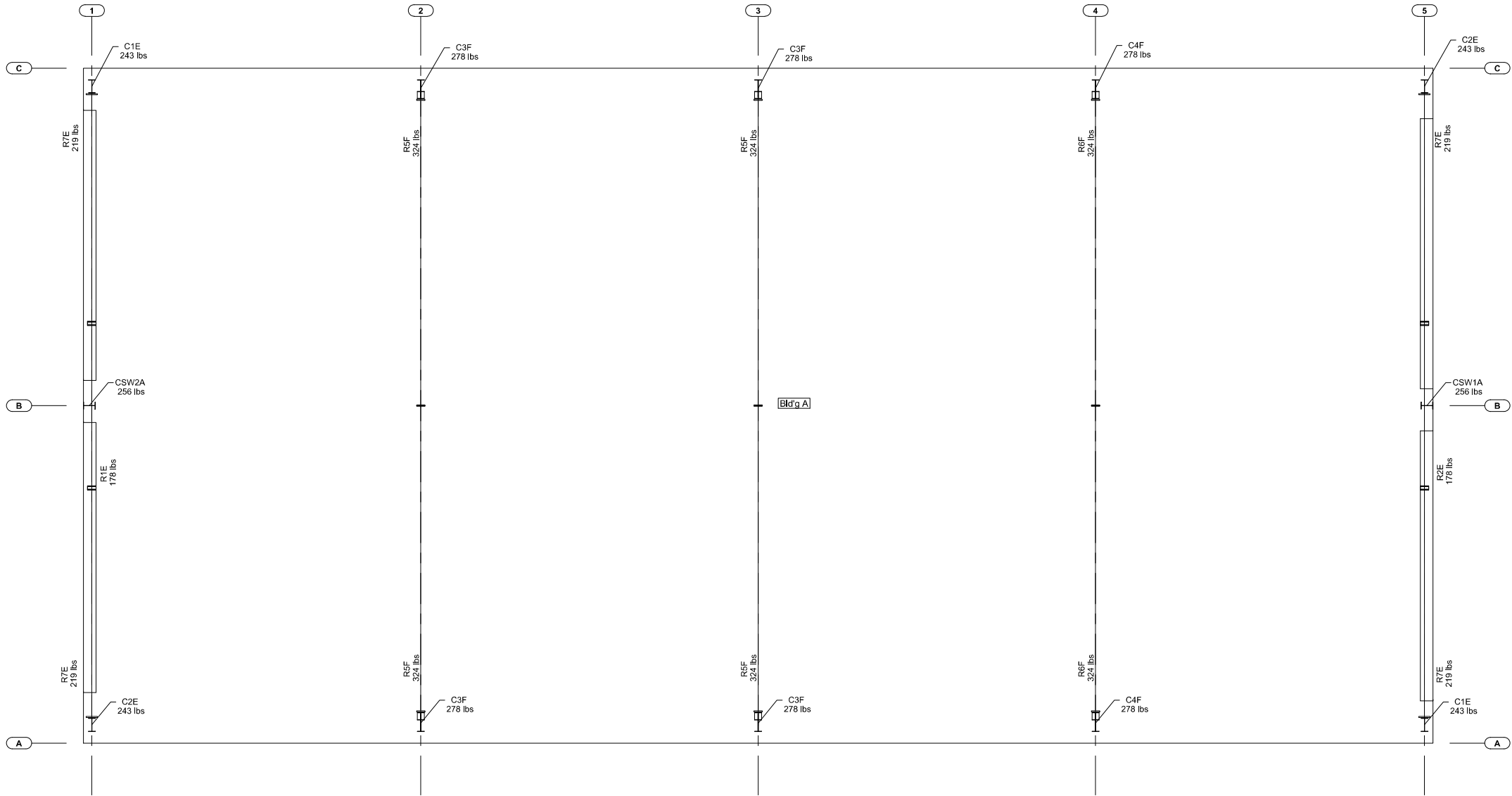
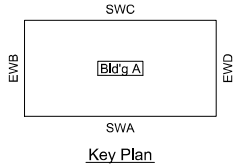
The use of fully exposed for the snow exposure results in the rigid frames being designed for only 90 percent of the roof snow load that is used for partially exposed. For a fully exposed snow exposure to be used, all of the following conditions must be true:
1. The roof is exposed to wind on all sides with no obstructions higher than the roof located closer to the building than a distance equal to 10 times the height of the obstruction above the roof.
2. The roof is exposed to wind on all sides with no significant obstructions on the roof such as parapet walls or large roof top mechanical units.
3. The roof is not exposed to accumulation of snow due to drifting or sliding from adjacent structures.

Framed openings, walk doors, and open areas shall be located in the bay and elevation as shown in the erection drawings. The cutting or removal of girts shown on the erection drawings due to the addition of framed openings, walk doors, or open areas not shown may void the design certifications supplied by the metal building manufacturer.

The framing at BLDG A Frame Line 1 and 5 is NOT designed to receive a future bay addition. Corresponding frame reactions are calculated based upon actual tributary area.

3/4" DIA. A325 BOLT GRIP TABLE		BOLT LENGTH	NOTE: FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.
GRIP	LENGTH		
0 TO 9/16"	1 1/4" F.T.		WASHER REQUIRED ONLY WHEN SPECIFIED. WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.
Over 9/16" TO 1 1/16"	1 3/4" F.T.		
Over 1 1/16" TO 1 5/16"	2"		
Over 1 5/16" TO 1 9/16"	2 1/4"		
Over 1 9/16" TO 1 13/16"	2 1/2"		
Over 1 13/16" TO 2 1/16"	2 3/4"		
LOCATIONS OF BOLTS LONGER THAN 2 3/4" NOTED ON ERECTION DRAWINGS			
F.T. DENOTES FULLY THREADED			

Jan 02, 2026
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KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202
No. 12592792
KAUSHIKKUMAR J. PATEL
STATE OF UTAH
Certificate Authority on any electronic copy.



Primary Steel

Revision	Date	Description	By	Ck'd

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BUILDING SOLUTIONS

FORTIFY
BUILDING SOLUTIONS

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Customer:
CITY OF OGDEN-212366
2549 WASHINGTON BLVD
OGDEN UT 84401
MARIA BROWN

Project Name & Location:
MARIA BROWN
1300 V L EY DR
OGDEN UT 84401-0808

Drawing Status:
☐ Issued For Approval
(Not For Construction)
☒ Issued For Construction
☐ Issued For Permit

Scale: NOT TO SCALE

Drawn by: AXD 12/9/25

Checked by: MC 12/15/25

Project Engineer: RAR

Job Number: 20-B-91454






Sheet Number: E2 of 14

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KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

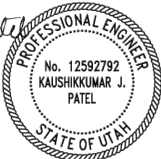
Jan 02, 2026


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SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
	0'-0 1/4"		2'-5 3/4"
	0'-3 3/4"		3'-1 3/4"
	1'-5 3/4"	REFER TO CF01122	



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 <p>MUELLER BUILDING SOLUTIONS</p>	<p>FORTIFY BUILDING SOLUTIONS</p>	<p>CITY OF OGDEN-212366 2849 WASHINGTON BLVD OGDEN UT 84401 MARA BROWN</p>	<p><i>Project Name & Location:</i></p> <p>MARA BROWN 1300 VALLEY DR OGDEN UT 84401-0808</p>
<p><i>Drawing Status:</i></p> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Issued For Approval <i>(Not For Construction)</i> <input checked="" type="checkbox"/> Issued For Construction </div>		<p><i>Issued For Permit</i></p> <div style="text-align: right;"><input type="checkbox"/></div>	
<p>Cornerstone Building Brands 13105 Northwest Freeway, Suite 500 Houston, TX 77040 cornerstonebuildingbrands.com</p>			

Drawn by: AXD 12/9/25

Checked by:	MC	12/15/25
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Checked By: MC 12/15/20

Project Engineer:	RAR

Job Number: 20-B-91454

50.544

Sheet Number: E3 of 14

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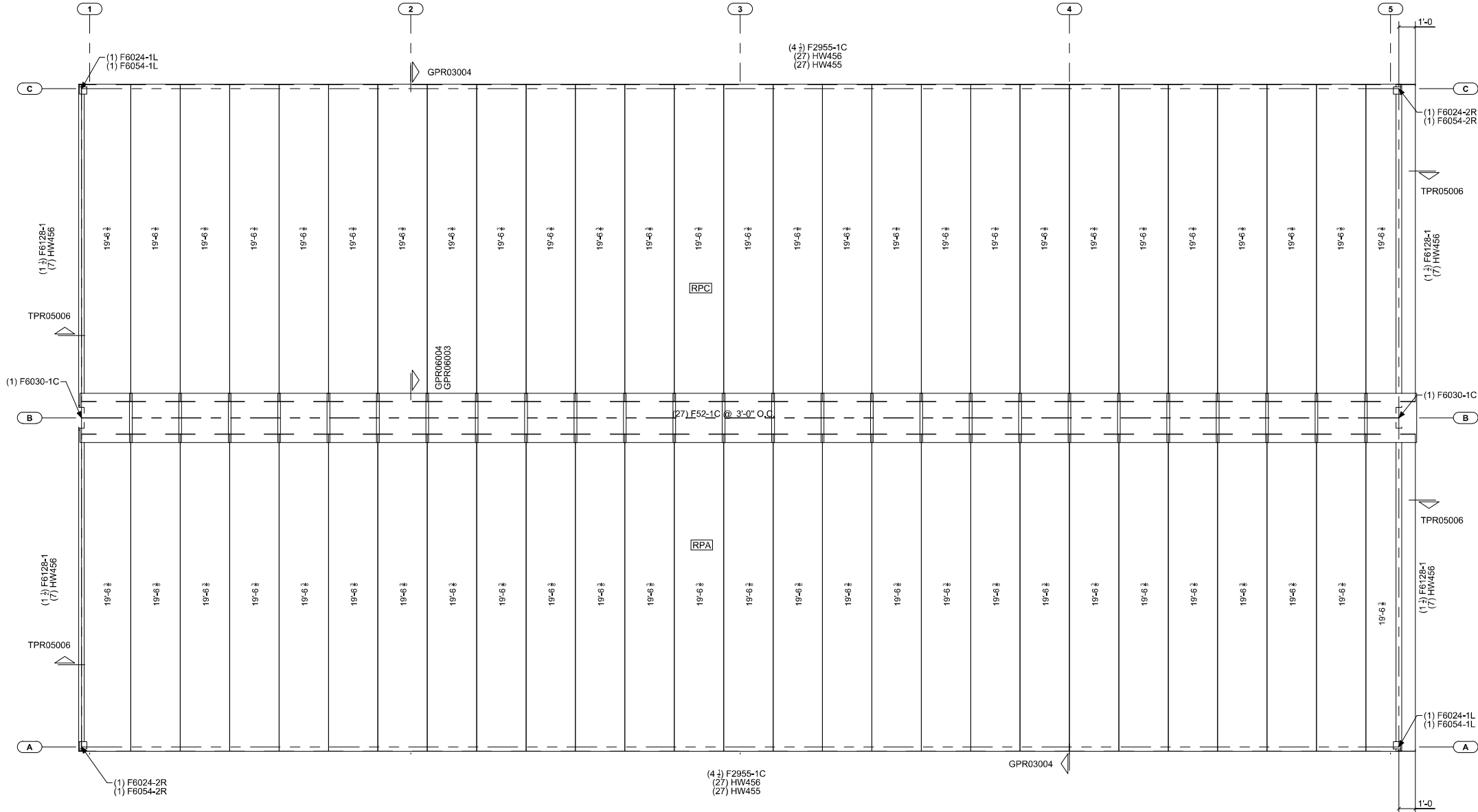
KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

PBR ROOF PANELS ARE TO BE FIELD CUT IF THE PANELS EXTEND OUTSIDE OF THE ROOF PLANE. PANELS ARE NOT TO BE BACK LAPPED.

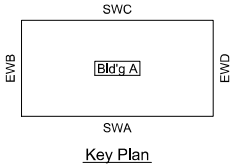
Non-Standard PBR Roof Panel Fasteners

#3A member fasteners are to be used for panel to secondary attachment in lieu of #3 shown on the R Drawings

RPC
Panel Type = PBR
Panel Color = GALVALUME PLUS
Panel Overhang From Outer Steel = 3"



RPA
Panel Type = PBR
Panel Color = GALVALUME PLUS
Panel Overhang From Outer Steel = 3"



Roof Sheetting RPA & RPC

Revision	Date	Description	By	Ck'd

MUELLER
BUILDING SOLUTIONS

FORTIFY
BUILDING BRANDS

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Customer:
CITY OF OGDEN-212366
2549 WASHINGTON BLVD
1300 V L EY DR
OGDEN UT 84401
MARIA BROWN

Project Name & Location:
MARIA BROWN
1300 V L EY DR
OGDEN UT 84401-0808

Drawing Status:
☐ Issued For Approval
☐ Issued For Construction
☐ Issued For Permit

Scale: NOT TO SCALE
Drawn by: AXD 12/9/25
Checked by: MC 12/15/25
Project Engineer: RAR
Job Number: 20-B-91454
Sheet Number: E4 of 14
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UTAH P.E. 12592792-2202

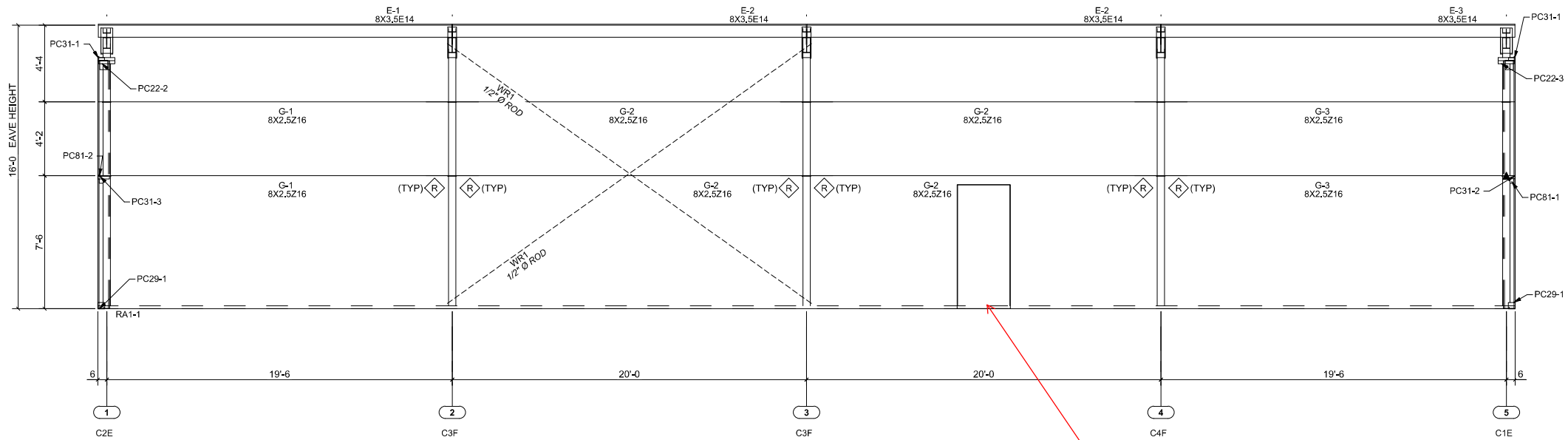
Jan 02, 2026
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PROFESSIONAL ENGINEER
No. 12592792
KAUSHIKKUMAR J. PATEL
STATE OF UTAH

▲ - DENOTES: (4) 1/2"Ø BOLTS AT
PURLIN OR GIRT CONNECTION
TO CLIP. REFER TO CF01122

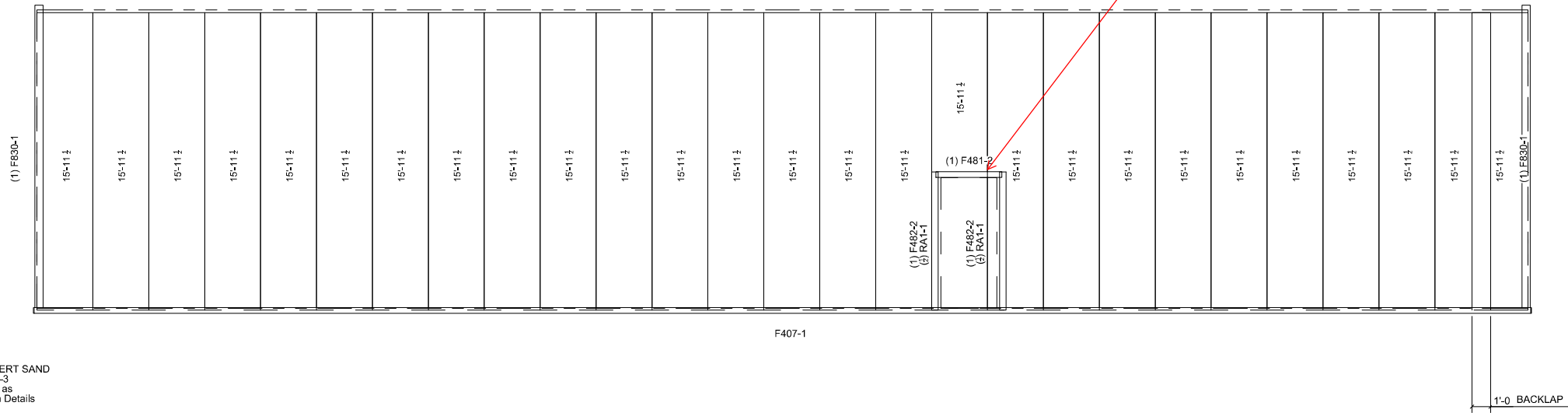
Non-Standard PBR Wall Panel Fasteners

#17B member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings








Sidewall Framing SWA at Grid Line A

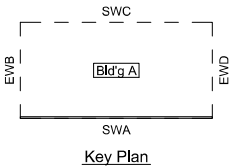
Man door locations
identified on civil set





Sidewall Sheeting SWA

PBR Wall Panels
Panel Coverage = 3'-0"
Panel Color = S200 DESERT SAND
Panel Pkg. Req'd. = PBS-3
Field Cut Panel and Trim as
required per Construction Details

SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
	0'-0 1/4"		2'-5 3/4"
	0'-3 3/4"		3'-1 3/4"
	1'-5 3/4"	REFER TO CF01122	

[illegible]

	MUELLER METAL BUILDINGS, ROOFING & MORE		Cornerstone Building Brands 13105 Northwest Freeway, Suite 500 Houston, TX 77040 cornerstonebuildingbrands.com
<p>Customer:</p> <p>CITY OF OGDEN-212366 2549 WASHINGTON BLVD OGDEN UT 84401 MARA BROWN</p>		<p>Project Name & Location:</p> <p>MARA BROWN 1300 VALLEY DR OGDEN UT 84401-0808</p>	
<p>Drawing Status:</p> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Issued For Approval (Not For Construction) <input checked="" type="checkbox"/> Issued For Construction </div> <div style="margin-top: 10px;"> <input type="checkbox"/> Issued For Permit </div>			

Scale: NOT TO SCALE
 Drawn by: AXD 12/9/25
 Checked by: MC 12/15/25
 Project Engineer: RAR

Job Number: 20-B-91454

Sheet Number: E5 of 14

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KAUSHIKKUMAR J. PATEL, P.E.
 UTAH P.E. 12592972-2202

Kaushik Patel
Jan 02, 2026

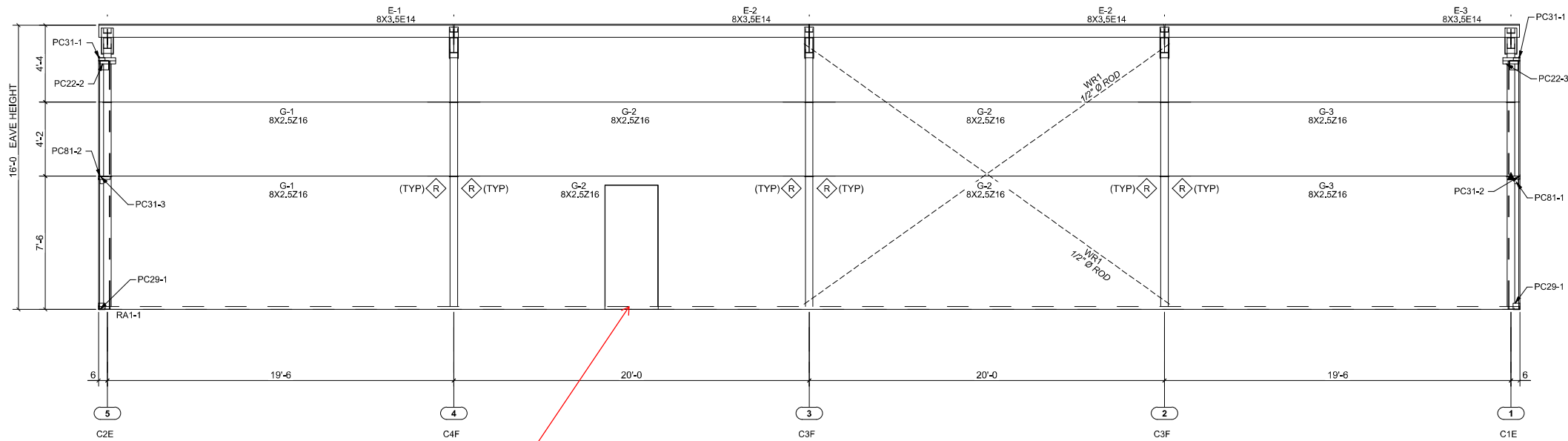
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PROFESSIONAL ENGINEER
No. 12592792
KAUSHIKKUMAR J. PATEL
STATE OF UTAH

▲ - DENOTES: (4) 1/2"Ø BOLTS AT
PURLIN OR GIRT CONNECTION
TO CLIP. REFER TO CF01122

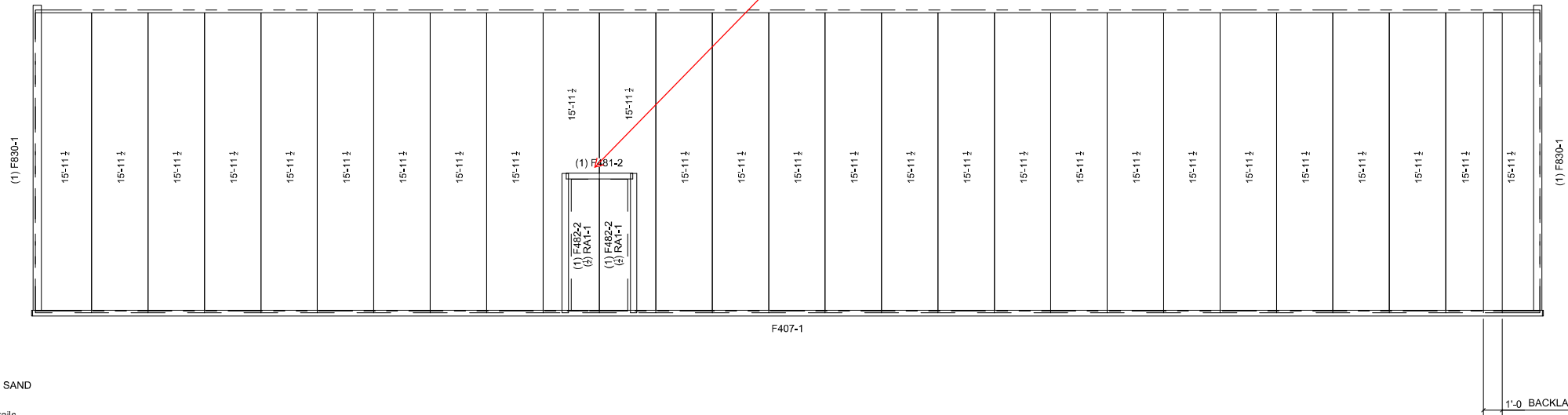
Non-Standard PBR Wall Panel Fasteners

#17B member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings








Sidewall Framing SWC at Grid Line C

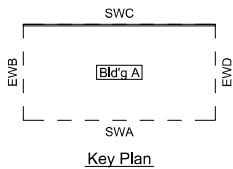
Man door locations
identified on civil set



Sidewall Sheeting SWC

PBR Wall Panels
Panel Coverage = 3'-0"
Panel Color = S200 DESERT SAND
Panel Pkg. Req'd. = PBS-4
Field Cut Panel and Trim as
required per Construction Details

SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
	0'-0 1/4"		2'-5 3/4"
	0'-3 3/4"		3'-1 3/4"
	1'-5 3/4"	REFER TO CF01122	

[illegible]

 <p>MUELLER METAL BUILDINGS, ROOFING & MORE</p>	<p>FORTIFY BUILDING SOLUTIONSSM</p>	<p><i>Project Name & Location:</i></p> <p>MARA BROWN CITY OF OGDEN-212366 2549 WASHINGTON BLVD OGDEN UT 84401 MARA BROWN</p>	<p><i>Customer:</i></p>	<p><input type="checkbox"/> Issued For Approval (Not For Construction)</p> <p><input type="checkbox"/> Issued For Permit</p>	<p><input checked="" type="checkbox"/> Issued For Construction</p>
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Scale:	NOT TO SCALE
Drawn by:	AXD 12/9/25
Checked by:	MC 12/15/25
Project Engineer:	RAR
Job Number:	20-B-91454
Sheet Number:	E6 of 14

The engineer whose seal appears hereon is employed by RAR, Inc. and is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, for the materials described herein. Said seal or certification is limited to the products designed and manufactured by the manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

KAUSHIKKUMAR J. PATEL, P.E.
 UTAH P.E. 12592792-2202

Kaushik Patel
Jan 02, 2026

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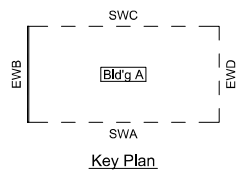
PROFESSIONAL ENGINEER
No. 12592792
KAUSHIKKUMAR J. PATEL
STATE OF UTAH

#17B member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

NOTE: FIELD BEVEL CUT WALL PANELS AT ENDWALLS TO FOLLOW ROOF SLOPE



PBR Wall Panels
Panel Coverage = 3'-0"
Panel Color = S200 DESERT SAND
Panel Pkg. Req'd. = PBS-1
Field Cut Panel and Trim as
required per Construction Details



Key Plan

[illegible]

Cornerstone Building Brands
Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

MUELLER
METAL BUILDINGS, ROOFING & MORE

FORTIFY
BUILDING SOLUTIONS®

Customer:	Project Name & Location:
CITY OF OGDEN-212366	MARA BROWN
2549 WASHINGTON BLVD	1300 VALLEY DR
OGDEN UT 84401	OGDEN UT 84401-0808
MARA BROWN	

☒ Issued For Construction

<input type="checkbox"/>	Issued For Approval (Not For Construction)
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Issued For Permit

Scale: NOT TO SCALE

Drawn by: AXD 12/9/25

Checked by: MC 12/15/25

Project Engineer: RAR

Job Number: 20-B-91454

Sheet Number: E7 of 14

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KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

Kaushik Kumar J. Patel

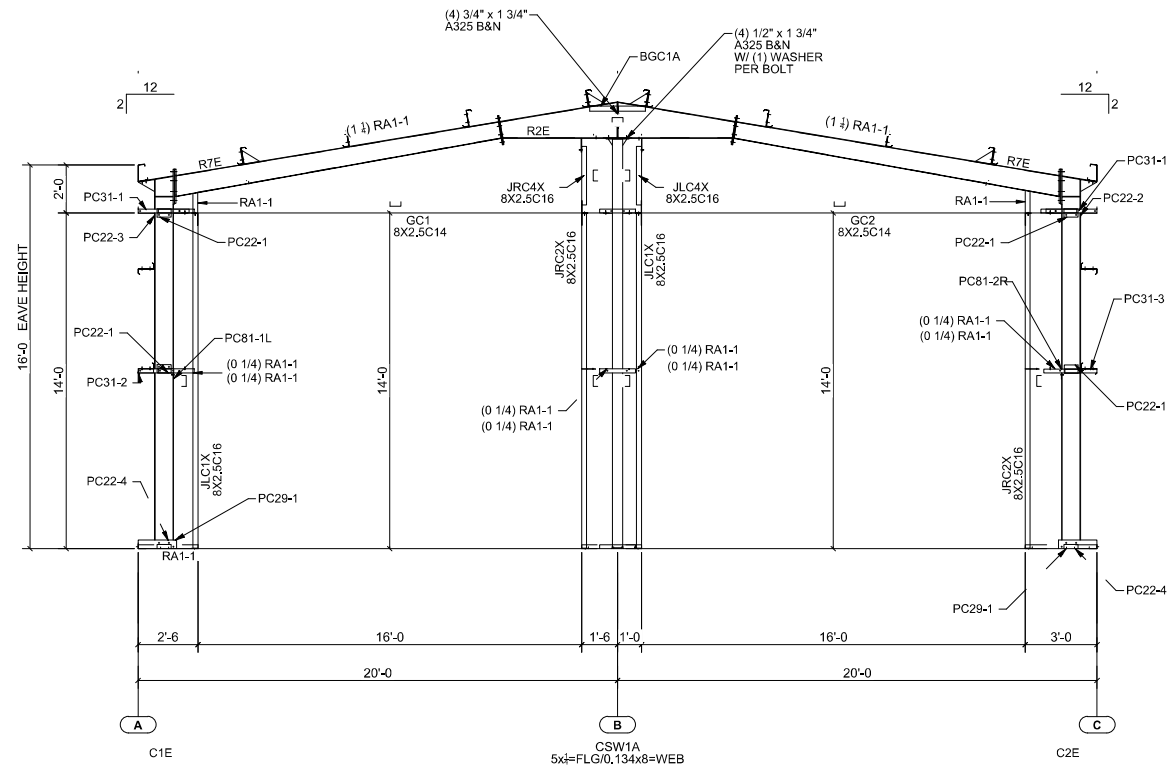
Jan 02, 2026

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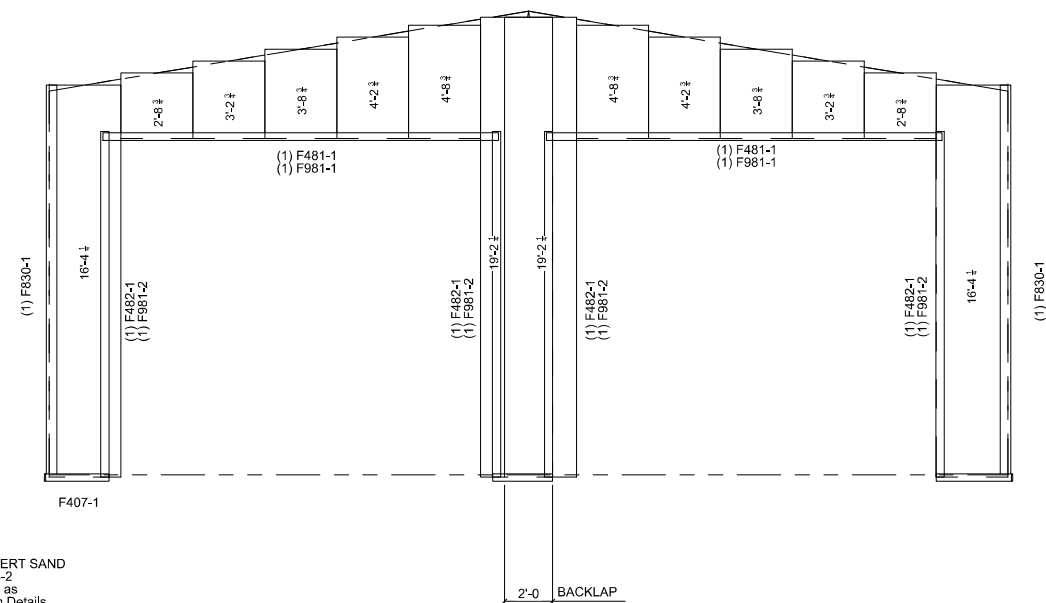
No. 12592792
KAUSHIKKUMAR J. PATEL
STATE OF UTAH
PROFESSIONAL ENGINEER

#17B member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

NOTE: FIELD BEVEL CUT WALL PANELS AT ENDWALLS TO FOLLOW ROOF SLOPE

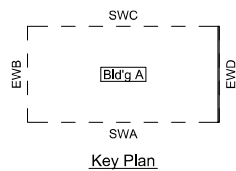


Endwall Framing EWD at Grid Line 5



Endwall Sheeting EWD

PBR Wall Panels
Panel Coverage = 3'-0"
Panel Color = S200 DESERT SAND
Panel Pkg. Req'd. = PBS-2
Field Cut Panel and Trim as
required per Construction Details

[illegible]

Cornerstone Building Brands
Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

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BUILDING SOLUTIONS™

Project Name & Location:
MARA BROWN
1300 VALLEY DR
OGDEN UT 84401-0808

Customer:
CITY OF OGDEN-212366
2549 WASHINGTON BLVD
OGDEN UT 84401

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(Not For Construction)

MARA BROWN
Drawing Status:

Scale: NOT TO SCALE

Drawn by: AXD 12/9/25

Checked by:	MC	12/15/25
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Project Engineer: RAR

Job Number: 20-B-91454

Sheet Number: E8 of 14

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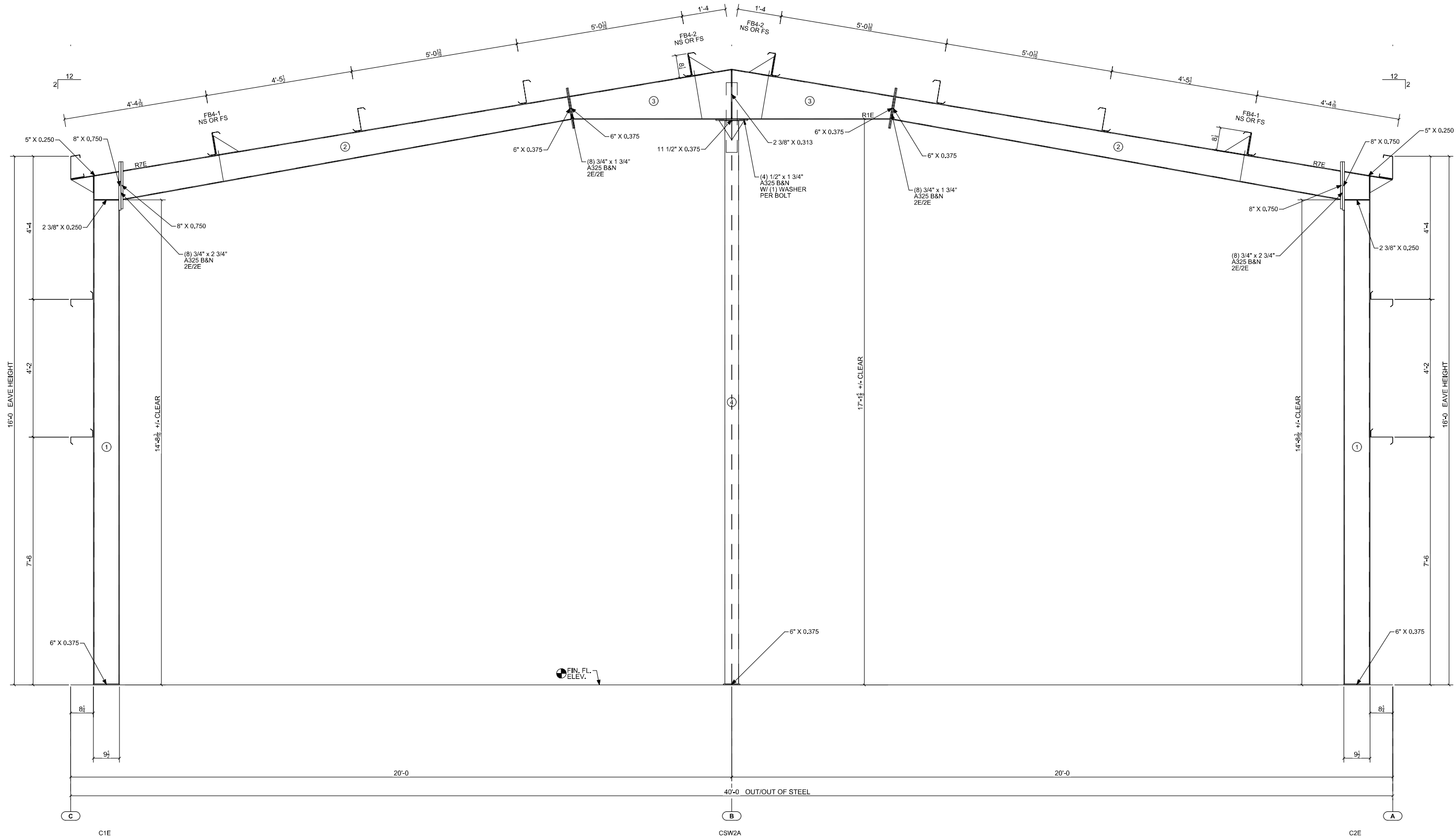
KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

Kaushik Patel
Jan 02, 2026
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K. on the date and/or time
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PROFESSIONAL ENGINEER
No. 12592792
KAUSHIKKUMAR J. PATEL
STATE OF UTAH

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PART MARK	WEIGHT
R1E	176
R7E	218
C1E	243
C2E	243
CSW2A	256



PRIMARY BUILT-UP MEMBER SIZES							
MARK	OUTSIDE FLG THICK	WIDTH	INSIDE FLG THICK	WIDTH	WEB THICK	START DEPTH	END DEPTH
①	0.2500	5"	0.2500	5"	0.1340	9.0000	9.0000
②	0.2500	5"	0.2500	5"	0.1340	10.0000	8.0046
③	0.2500	5"	0.2500	5"	0.1340	8.0625	18.0000
④	0.2500	5"	0.2500	5"	0.1340	8.0000	8.0000

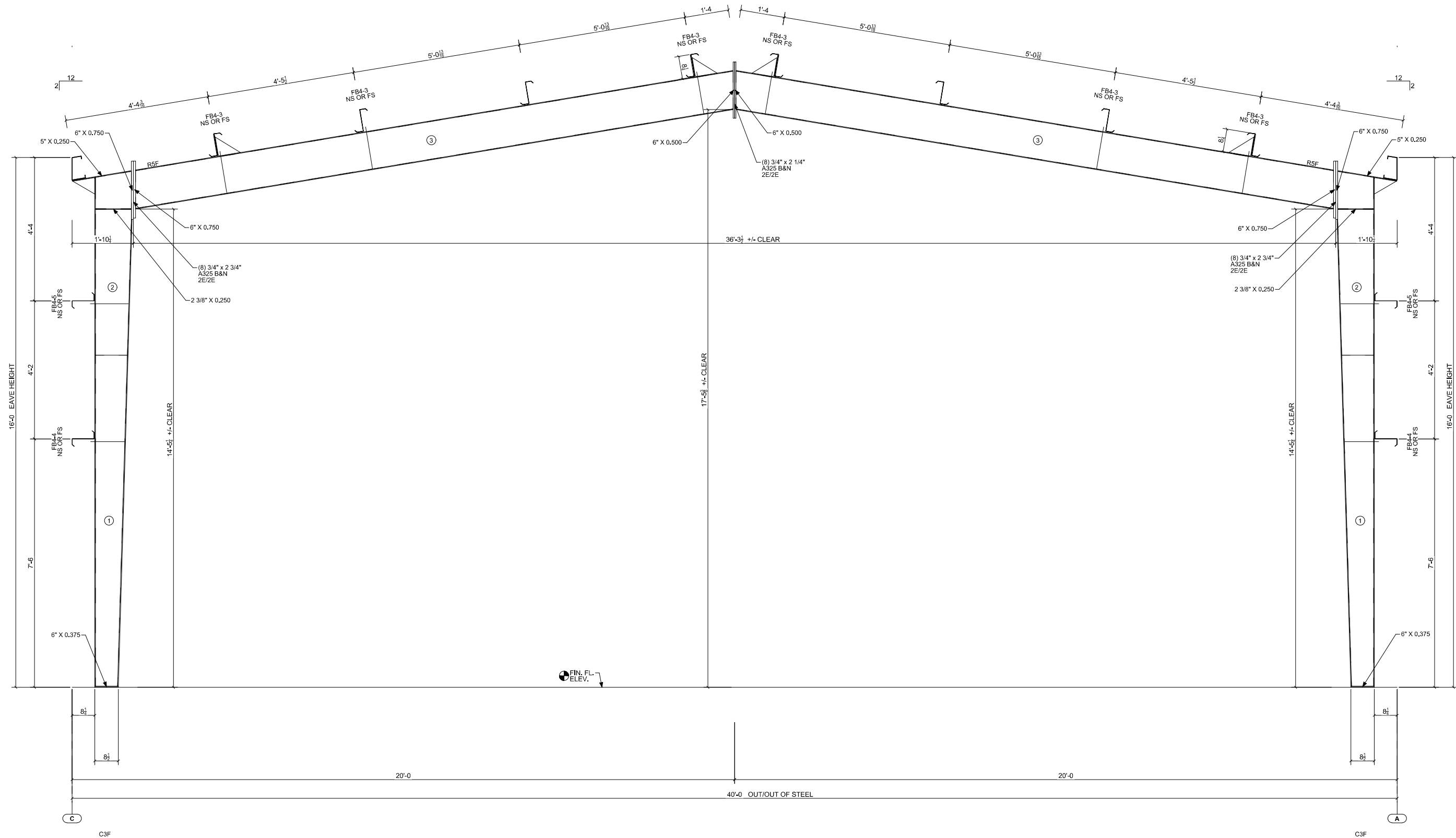
Kaushikumar J. Patel
Jan 02, 2026

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PROFESSIONAL ENGINEER
No. 12592792
KAUSHIKUMAR J. PATEL
STATE OF UTAH

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
MAY VARY DUE TO CONDITIONS (DEFLECTION).
VERTICAL CLEARANCE DIMENSIONS ARE FROM
FINISHED FLOOR REFERENCE ELEVATION.

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R5F	322
C3F	278

[illegible]

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com



Project Name & Location:
MARA BROWN
1300 VALLEY DR
OGDEN UT 84401-0808

Customer:
CITY OF OGDEN-212366
2549 WASHINGTON BLVD
OGDEN UT 84401
MARA BROWN

☒ Issued For Construction

<input type="checkbox"/>	Issued For Approval (Not For Construction)
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Scale: NOT TO SCALE

Drawn by: AXD 12/9/25

Checked by: MC 12/15/25

Project Engineer: RAR

Job Number: 20-B-91454


Sheet Number: E10 of 14

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

PRIMARY BUILT-UP MEMBER SIZES							
MARK	OUTSIDE FLG		INSIDE FLG		WEB		
	THICK	WIDTH	THICK	WIDTH	THICK	START DEPTH	END DEPTH
①	0.2500	5"	0.2500	5"	0.1340	8,0000	11,5471
②	0.2500	5"	0.2500	5"	0.2500	11,5471	13,0000
③	0.2500	5"	0.2500	5"	0.1340	13,5000	13,5000

Kaushik Patel
Jan 02, 2026
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on the date and/or time
signature. Printed copies of
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electronic copy.



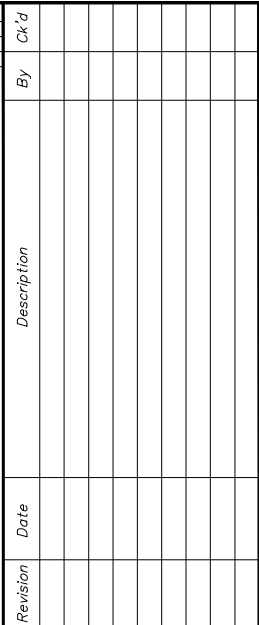
PROFESSIONAL ENGINEER
No. 12592792
KAUSHIKUMAR J.
PATEL
STATE OF UTAH

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GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM
FINISHED FLOOR REFERENCE ELEVATION.

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R6F	322
C4F	278



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Customer:
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2549 WASHINGTON BLVD
OGDEN UT 84401

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Drawing Status:

[illegible]

KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

Cross Section at Frame Line 4

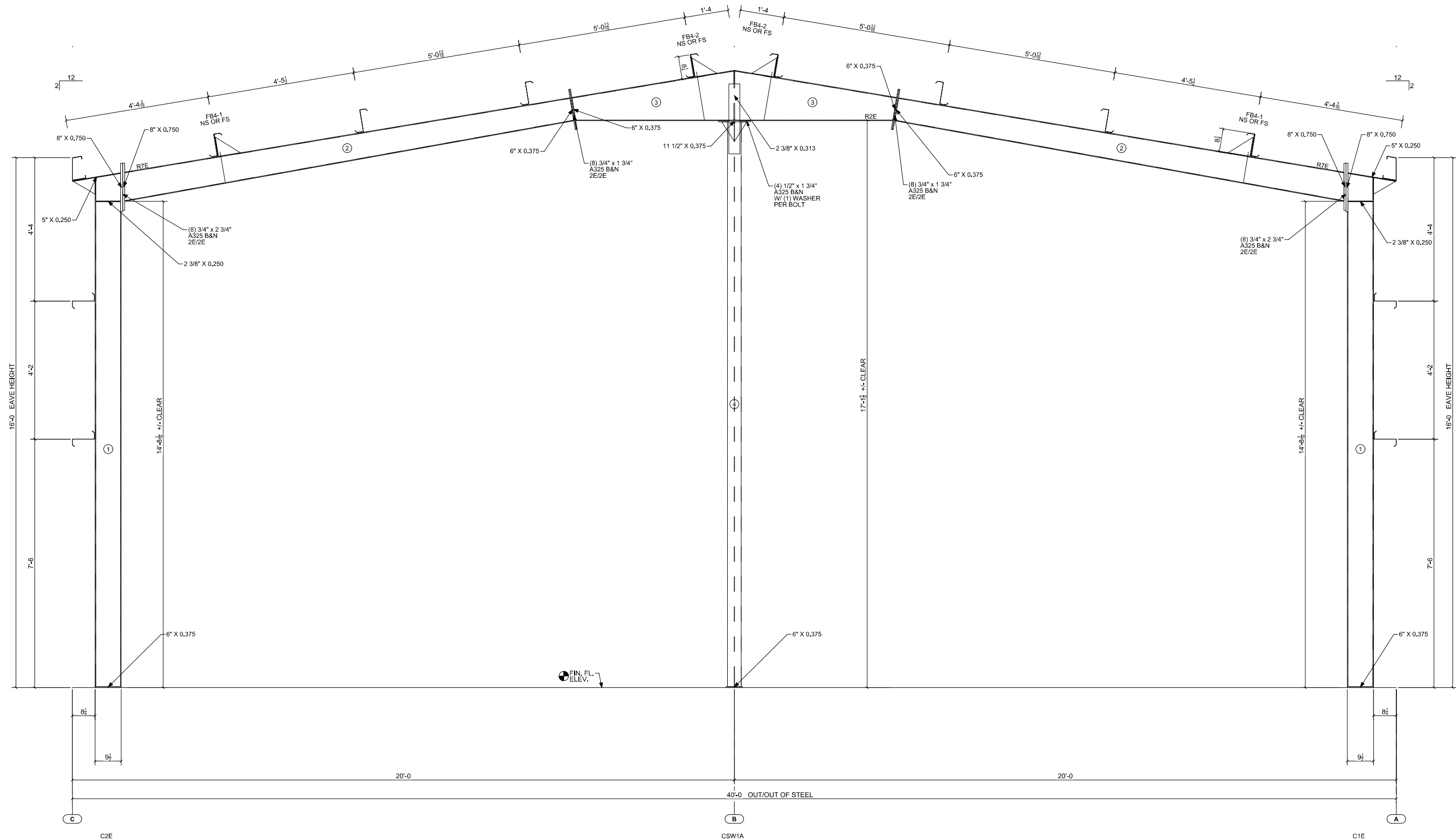
Kaushik Patel

Jan 02, 2026

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PROFESSIONAL ENGINEER
No. 12592792
KAUSHIKUMAR J. PATEL
STATE OF UTAH

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R2E	176
R7E	218
C1E	243
C2E	243
CSW1A	256




PRIMARY BUILT-UP MEMBER SIZES						
MARK	OUTSIDE FLG		INSIDE FLG		WEB	
	THICK	WIDTH	THICK	WIDTH	START DEPTH	END DEPTH
①	0.2500	5"	0.2500	5"	0.1340	9.0000
②	0.2500	5"	0.2500	5"	0.1340	10.0000
③	0.2500	5"	0.2500	5"	0.1340	8.0625
④	0.2500	5"	0.2500	5"	0.1340	8.0000

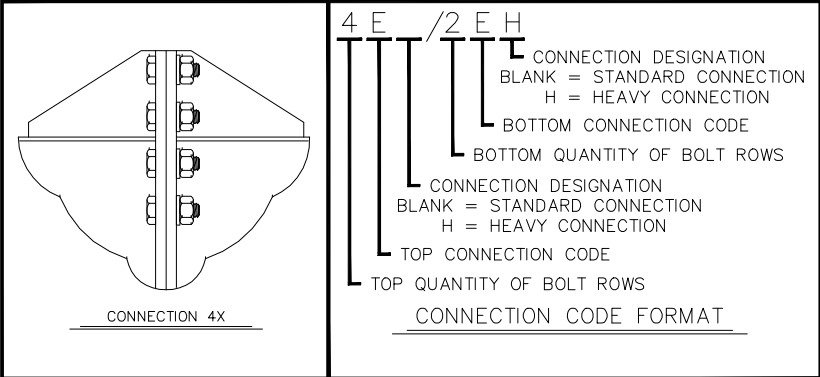
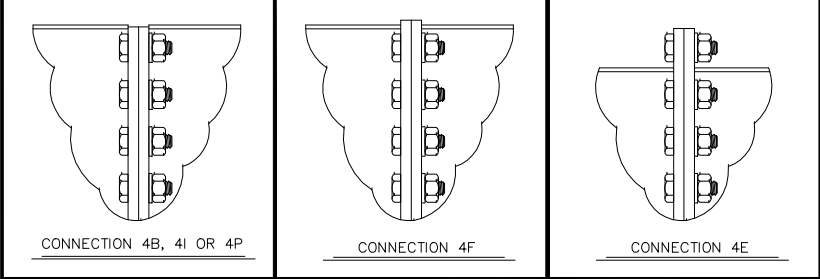
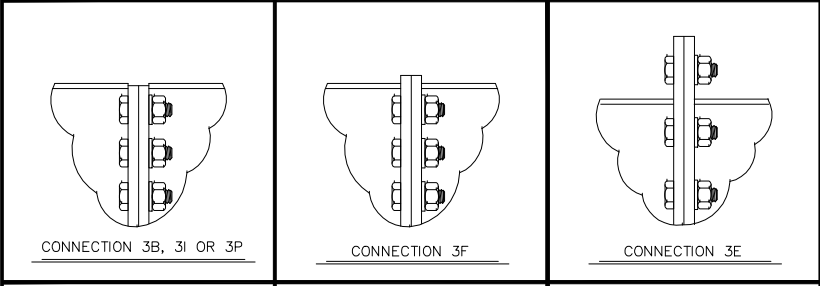
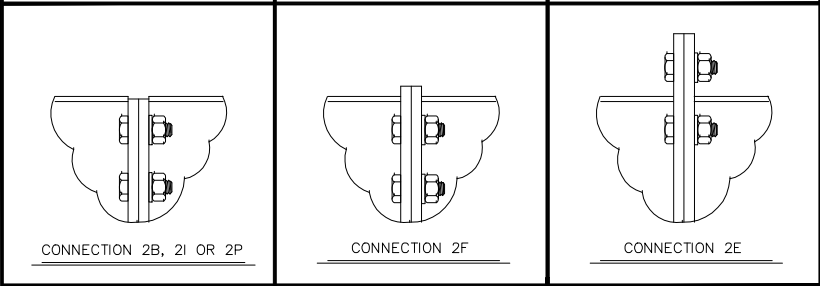
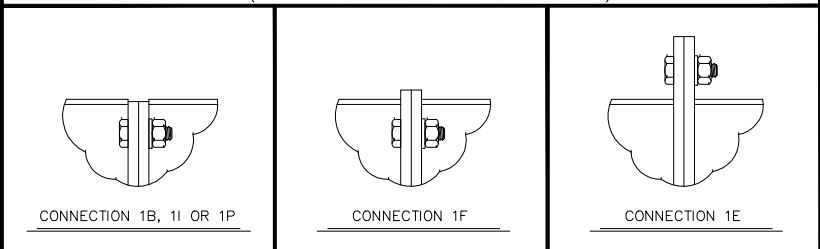
Kaushik Patel

Jan 02, 2026

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CONNECTION CODES (FOR TOP AND BOTTOM BOLT PATTERN)

[illegible]

B = THIS DESCRIPTION CODE IS USED TO DEFINE SHEAR CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE TOP FLANGE. CONNECTION PLATE LENGTH MUST BE A MINIMUM OF HALF THE RAFTER WEB DEPTH AND SHALL NOT EXCEED THE RAFTER TOTAL DEPTH.

E = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED WITH ONE SET OUTSIDE THE TOP OR BOTTOM FLANGE AND THE REMAINING SETS ARE LOCATED INSIDE THE TOP OR BOTTOM FLANGE.

F = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP OR BOTTOM FLANGE AND CONNECTION PLATE PROJECTS 1/2" BEYOND THE TOP OR BOTTOM FLANGE.

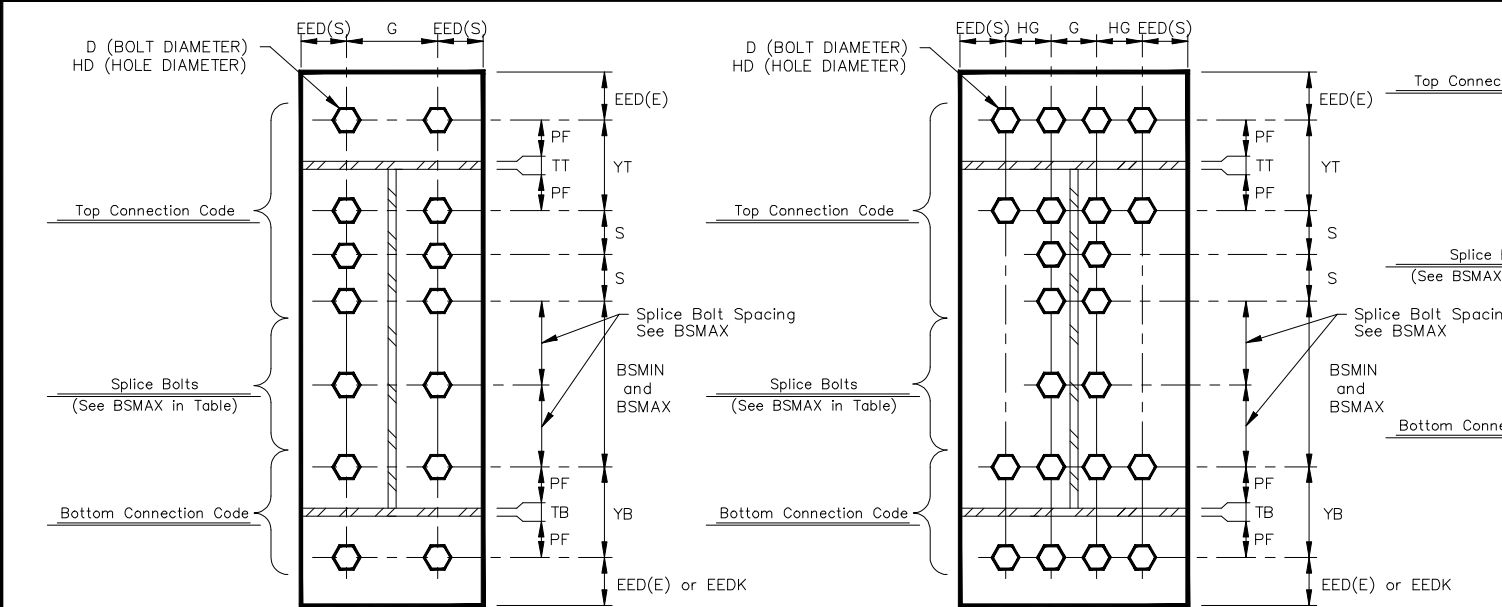
I = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP OR BOTTOM FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE TOP OR BOTTOM FLANGE.

P = THIS DESCRIPTION CODE IS USED TO DEFINE SHEAR CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE TOP FLANGE. CONNECTION PLATE LENGTH MUST BE A MINIMUM OF HALF THE RAFTER WEB DEPTH AND SHALL NOT EXCEED THE RAFTER TOTAL DEPTH.

4X = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED WITH TWO SETS EACH SIDE OF THE TOP OR BOTTOM FLANGE WITH A GUSSET PLATE OUTSIDE THE TOP AND BOTTOM FLANGE OR COLUMN CAP PLATE.

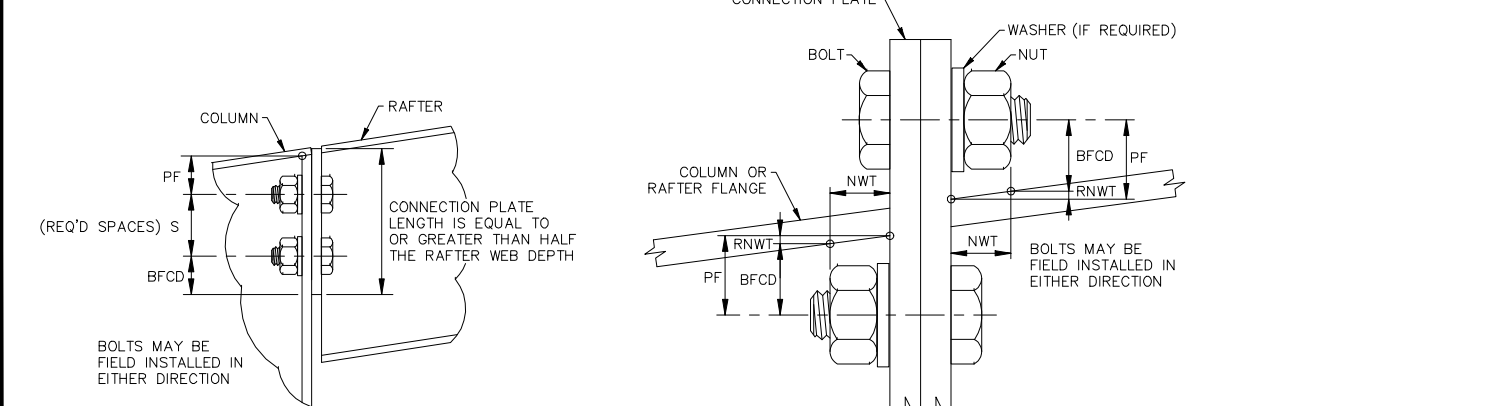
CONNECTION BOLT DATA

NAME	DESCRIPTION FOR A325 BOLT DIMENSIONS		A325 CONNECTION BOLT DIMENSIONS					
D	DIAMETER OF THE BOLT		1/2"	3/4"	7/8"	1"	1 1/4"	1 1/2"
HD	BOLT HOLE DIAMETER		9/16"	13/16"	15/16"	1 1/16"	1 5/16"	1 9/16"
G	BOLT GAUGE		2 1/2"	3"	4"	3 1/2"	4"	5 1/2"
	MAX. WEB THICKNESS (Max. 5/16" Fillet Weld) WITHOUT WASHER		1"	1 1/8"	1 7/8"	1 1/4"	1 3/8"	2 1/8"
	MAX. WEB THICKNESS (Max. 5/16" Fillet Weld) WITH WASHER		3/4"	7/8"	1 5/8"	7/8"	7/8"	1 7/8"
HG	HEAVY CONN. BOLT GAUGE		N/A	2 1/4"	2 5/8"	3"	3 3/4"	4"
S	NORMAL BOLT SPACING		2 1/2"	3"	3 1/4"	3 1/2"	4"	4 1/2"
BSMIN	MINIMUM SPACING BETWEEN TOP & BOTTOM SETS OF BOLTS		1 1/2"	2 1/4"	2 5/8"	3"	3 3/4"	4"
BSMAX	MAXIMUM BOLT SPACING BETWEEN TOP AND BOTTOM SETS OF BOLTS ON CONNECTION PLATES		2'-0" 2'-0" 2'-0" 2'-0" 2'-0" 2'-0"					
BFGD	MINIMUM BOLT-TO-FLANGE CLEARANCE AT OUT OF NUT SEE BOLT AT FLANGE DETAIL		SPLICE BOLT SPACING $\begin{cases} 1/2 \text{ BSMAX } (\pm \frac{1}{16}) \text{ WHEN BSMAX } = 2'-0\frac{1}{16}" \text{ TO } 4'-0" \\ 1/3 \text{ BSMAX } (\pm \frac{1}{16}) \text{ WHEN BSMAX } = 4'-0\frac{1}{16}" \text{ TO } 6'-0" \\ 1/4 \text{ BSMAX } (\pm \frac{1}{16}) \text{ WHEN BSMAX } = 6'-0\frac{1}{16}" \text{ TO } 8'-0" \end{cases}$					
BFGD	MINIMUM BOLT-TO-FLANGE CLEARANCE AT OUT OF NUT SEE BOLT AT FLANGE DETAIL		1 1/2"	1 3/4"	1 7/8"	2 1/4"	2 1/2"	2 3/4"
PF	MINIMUM BOLT-TO-FLANGE CLEARANCE AT CONNECTION PLATE SEE BOLT AT FLANGE DETAIL		(BFGD + RNWT) PF INSIDE OF FLANGE IS INCREASED BASED ON THE YT & YB VALUE. PF FOR CONNECTION B, F, I AND P ARE THE SAME AS USED ON CONNECTION E					
NWT	NUT AND WASHER THICKNESS		SEE BOLT AT FLANGE DETAIL. NUT THICKNESS IS EQUAL TO THE BOLT DIAMETER AND .15625" WASHER THICKNESS IS USED EVEN IF A WASHER IS NOT REQUIRED.					
RNWT	RISE ON NUT AND WASHER THICKNESS							
TT	THICKNESS TOP FLANGE		REFER TO FRAME CROSS SECTION DRAWING FOR LARGEST FLANGE THICKNESS EITHER SIDE OF THE CONNECTION.					
TB	THICKNESS BOTTOM FLANGE							
YT	BOLT SPACING TOP (ROUND UP TO NEXT 1/2", MIN = S)		3" + TT	3 1/2" + TT	3 3/4" + TT	4 1/2" + TT	5" + TT	5 1/2" + TT
YB	BOLT SPACING BOTTOM (ROUND UP TO NEXT 1/2", MIN = S)		or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped
EED(E)	MINIMUM END EDGE DIMENSION		1 1/4"	1 1/4"	1 1/2"	1 3/4"	2 1/4"	2 5/8"
EED(S)	MINIMUM SIDE EDGE DIMENSION		3/4"	1"	1 1/8"	1 1/4"	1 5/8"	2 1/4"
EEDK	END EDGE DIMENSION AT KNEE CONNECTION		1 3/8"	1 3/8"	1 5/8"	1 7/8"	2 3/8"	2 3/4"
BCWM	MINIMUM BOLT CLEARANCE FROM A FLANGE OR WEB WELD	WITHOUT WASHER	7/16"	5/8"	3/4"	13/16"	1"	1 3/8"
		WITH HARDENED WASHER	9/16"	3/4"	7/8"	1"	1 1/4"	1 1/2"
WCSM	MINIMUM WIDTH OF CONNECTION PLATE (Standard Connection)		5"	6"	8"	8"	10"	12"
WCHM	MINIMUM WIDTH OF CONNECTION PLATE (Heavy Connection)		N/A	10"	12"	12"	16"	18"
TCMIN	MINIMUM THICKNESS OF CONNECTION PLATE		1/4"	3/8"	7/16"	1/2"	5/8"	1"



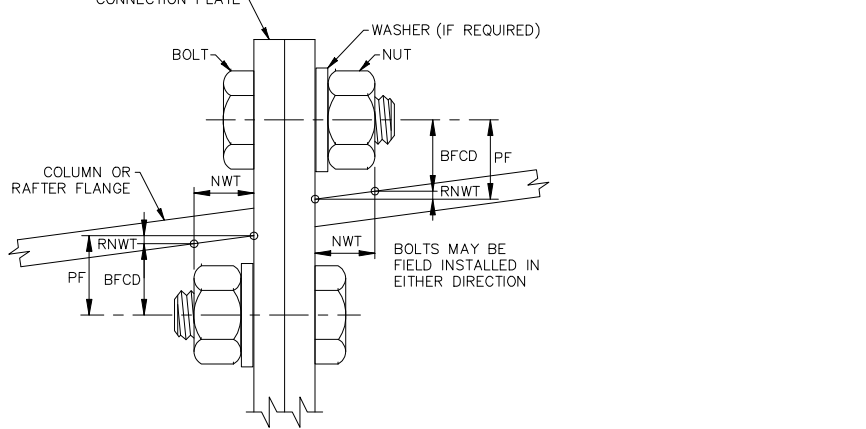
STANDARD CONNECTION DESIGNATION		HEAVY CONNECTION DESIGNATION	
---------------------------------	--	------------------------------	--

(CODE 4E/2E SHOWN) CONNECTION PLATE (CODE 4EH/2EH SHOWN)



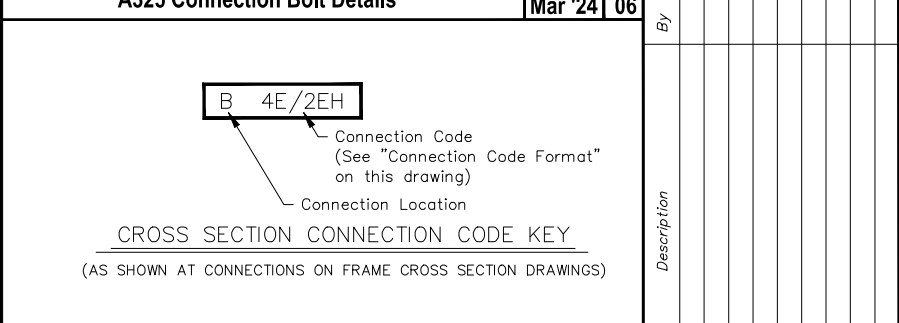
CONNECTION B & P BOLT AT FLANGE DETAIL

(Low Side Shown, High Side Similar) (Top Flange Shown, Bottom Flange Similar)



CONNECTION B & P BOLT AT FLANGE DETAIL

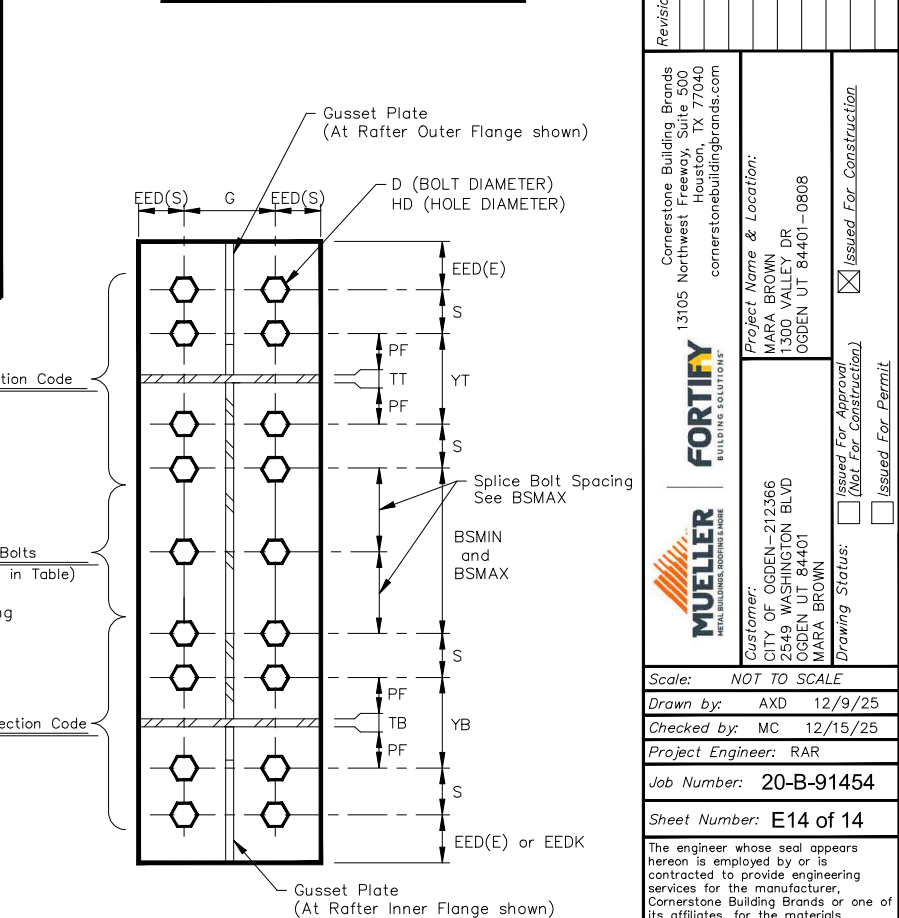
(Low Side Shown, High Side Similar) (Top Flange Shown, Bottom Flange Similar)

[illegible][illegible]

CROSS SECTION CONNECTION CODE KEY

(AS SHOWN AT CONNECTIONS ON FRAME CROSS SECTION DRAWINGS)


Flange Brace Material Schedule									
Part Mark	Material								
FB4__	L 2" x 2" x 14 Ga.								
FB5__	L 2" x 2" x 14 Ga.								
FB6__	L 2" x 2" x 1"								
FB7__	L 2 1/2" x 2 1/2" x 3/16"								



4X CONNECTION DESIGNATION

(CODE 4X/4X SHOWN)

[illegible]

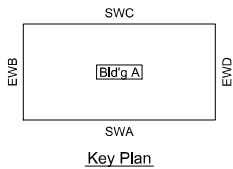
 <p>MUELLER METAL BUILDINGS, ROOFING & SIDING</p>	<p>FORTIFY BUILDING SOLUTIONS®</p>	<p>Customer: CITY OF OGDEN—212366 2549 WASHINGTON BLVD OGDEN UT 84401 MARIA BROWN</p>	<p>Project Name & Location: MARA BROWN 1300 VALLEY DR OGDEN UT 84401—0808</p>	<p>Drawing Status: <input type="checkbox"/> Issued For Approval (Not For Construction)</p>	<p><input checked="" type="checkbox"/> Issued For Construction</p>
<p>Cornerstone Building Brands 13105 Northwest Highway, Suite 500 Dallas, TX 75040 cornerstonebuildingbrands.com</p>					

<i>Scale:</i> NOT TO SCALE	
<i>Drawn by:</i> AXD	12/9/25
<i>Checked by:</i> MC	12/15/25
<i>Project Engineer:</i> RAR	
<i>Job Number:</i> 20-B-91454	
<i>Sheet Number:</i> E14 of 14	
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KAUSHIKKUMAR J. PATEL, P.E. UTAH P.E. 12592792-2202	

Kaushik Patel
Jan 02, 2026
I have signed and sealed this document on the date and/or time indicated above. Printed copies of this document are signed and sealed by a 3rd Party Electronic copy.

PROFESSIONAL ENGINEER
No. 12592792
KAUSHIKKUMAR J. PATEL
STATE OF UTAH

FRAMED OPENING SCHEDULE			
MARK	DESCRIPTION	DETAIL	QUAN.
[A]	16'-0" X 14'-0" FRAMED OPENING	(J)	4



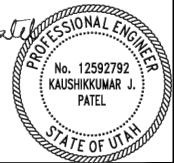
Anchor Rod Setting Plan

Anchor Rod Drawings

- 1) This drawing is for anchor rod placement only and is not foundation design.
- 2) Foundation must be square and level with all anchor rods true in size, location, and projection.
- 3) Projection shown must be held to keep threads clear of finished concrete.
- 4) This structural design data includes magnitude and location of design loads and support conditions, material properties, and type and size of major structural members necessary to show compliance with the Order Documents at the time of this issue. Any change to building loads or dimensions may change structural member sizes and locations shown. This structural design data will be superseded and voided by any future mailing.
- 5) Anchor rod size as noted on the drawings has been determined by shear and tension at the bottom of the base plate. The length of the anchor rod and method of load transfer to the foundation are to be determined by the foundation engineer. Anchor rods are not provided by the metal building manufacturer.
- 6) Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise.
- 7) 3000 psi concrete compressive strength (f_c) is assumed for the purpose of column base plate design unless otherwise noted.

This item has been electronically signed and sealed by Kaushikkumar J. Patel, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Jan 02, 2026



Scale: NOT TO SCALE

Drawn by: DJC 12/5/25

Checked by:

Project Engineer: RAR

Job Number: 20-B-91454

Sheet Number: F1 of 4

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KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

FORTIFY
BUILDING SOLUTIONS

MUELLER
METAL BUILDING SOLUTIONS

Customer:
CITY OF OGDEN-212366
2549 WASHINGTON BLVD
OGDEN UT 84401
MARIA BROWN

Project Name & Location:
MARIA BROWN DR
1300 V L EY
OGDEN UT 84401-0808

Drawing Status: ☐ Issued For Approval (Not For Construction) ☒ Issued For Construction ☐ Issued For Permit

Description

Revision

Date

By

Ck'd

BASE PLATE SIZE = 6"W x 9 3/4" L x 3/8" THICK
ANCHOR ROD SIZE = 2" DIA. (F1554 GR.36)
ANCHOR ROD PROJECTION = 3"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"
(ANCHOR BOLTS, NUTS AND WASHERS NOT BY MBM)



BASE PLATE SIZE = 6"W x 8 1/2"L x 1/2" THICK
ANCHOR ROD SIZE = 3/4" DIA. (F1554 GR.36)
ANCHOR ROD PROJECTION = 3"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"
(ANCHOR BOLTS, NUTS AND WASHERS NOT BY MBM)



BASE PLATE SIZE = 6" W x 9 1/2" L x 3/8" THICK
ANCHOR ROD SIZE = 1/2" DIA. (F1554 GR.36)
ANCHOR ROD PROJECTION = 3"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"
(ANCHOR BOLTS, NUTS AND WASHERS NOT BY MBM)



BASE PLATE SIZE = 6"W x 10 3/4"L x 3/4" THICK
ANCHOR ROD SIZE = 3/4" DIA. (F1554 GR.36)
ANCHOR ROD PROJECTION = 3"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"
(ANCHOR BOLTS, NUTS AND WASHERS NOT BY MBM)



BASE PLATE SIZE = 6" W x 10 1/2" L x 3/4" THICK
ANCHOR ROD SIZE = 1/2" DIA. (F1554 GR.36)
ANCHOR ROD PROJECTION = 3"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"
(ANCHOR BOLTS, NUTS AND WASHERS NOT BY MBM)



BASE PLATE SIZE = 6" W X 9-1/2" L X 3/8" THICK
ANCHOR ROD SIZE = 1/2" DIA. (F1554 GR.36)
ANCHOR ROD PROJECTION = 3"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"
(ANCHOR BOLTS, NUTS AND WASHERS NOT BY MBM)



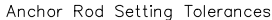
BASE PLATE SIZE = 6"W x 8 1/2"L x 3/4" THICK
ANCHOR ROD SIZE = 3/4" DIA. (F1554 GR.36)
ANCHOR ROD PROJECTION = 3"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"
(ANCHOR BOLTS, NUTS AND WASHERS NOT BY MBM)




BASE PLATE SIZE = 6"W x 9 1/2" L x 3/4" THICK
ANCHOR ROD SIZE = 3/4" DIA. (F1554 GR.36)
ANCHOR ROD PROJECTION = 3"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"
(ANCHOR BOLTS, NUTS AND WASHERS NOT BY MBM)



BASE PLATE SIZE = 3'-4" W x 8" L x 1" THICK
ANCHOR ROD SIZE = 1/2" DIA. (F1554 GR.55)
ANCHOR ROD PROJECTION = 2"
BOTTOM OF BASE PLATE ELEVATION = 100'-0"
(ANCHOR BOLTS, NUTS AND WASHERS NOT BY MBM)



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<p><i>Customer:</i> CITY OF OGDEN—212366 2549 WASHINGTON BLVD OGDEN UT 84401 MARA BROWN</p>	<p><i>Project Name & Location:</i> MARA BROWN 1300 VALLEY DR OGDEN UT 84401—0808</p>	<p><i>Drawing Status:</i> <input type="checkbox"/> Issued For Approval (Not For Construction)</p>
<p><i>Issued For Permit</i></p>		<p><input checked="" type="checkbox"/> <i>Issued For Construction</i></p>

Scale: NOT TO SCALE

Drawn by: DJC 12/5/25

Checked by:

Project Engineer: RAR

Job Number: 20 B 01454

Job Number: 20-B-91434


Sheet Number: F2 of 4

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KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

Jan 02, 2026

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FRAME ID #3
cs 40./16./10.25 20./110./

USER NAME:Rafael.arcerabad
JOB NAME:91454A

DATE:12/03/25 PAGE:3-2
FILE:frame_1.fra

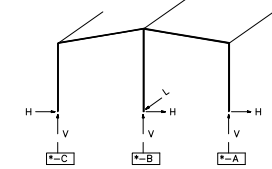
SUPPORT REACTIONS FOR EACH LOAD GROUP

*LOCATION: Gridlines: 1

NOTES:(1) All reactions are in kips and kip-ft.
(2) Primary wind load cases are not concurrent.
(3) X-bracing reactions (RBPULW and RBUPEQ) are combined with LWL and LEQ groups only.

TIME:17:11:05

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 1						
COLUMN	*~C			*~A		
	H	V	L	H	V	L
DL	-0.0	0.5	-0.0	-0.0	0.5	-0.0
COLL	0.0	0.1	-0.0	-0.0	0.1	-0.0
PL1	0.1	2.0	-0.0	-0.1	-0.2	-0.0
PL2	0.1	-0.2	-0.0	-0.1	2.0	-0.0
SNOW	0.2	2.7	-0.0	-0.2	2.7	-0.0
LL	0.2	1.8	-0.0	-0.2	1.8	-0.0
EQ	-0.4	-0.3	-0.0	-0.4	0.3	-0.0
WL1	-1.7	-3.0	-0.0	-1.6	-0.7	-0.0
WL2	-2.1	-2.1	-0.0	-1.2	0.2	-0.0
LWL1	0.9	-2.5	-0.0	-0.5	-1.7	-0.0
LWL2	0.5	1.7	-0.0	-0.9	-2.5	-0.0
LWL3	0.5	-1.7	-0.0	-0.1	-0.9	-0.0
LWL4	0.1	-0.9	-0.0	-0.5	-1.7	-0.0
WL3	1.6	-0.7	-0.0	1.7	-3.0	-0.0
WL4	1.2	0.2	-0.0	2.1	-0.0	-0.0
SBAL	0.2	0.4	-0.0	-0.2	2.9	-0.0
RS	0.2	0.4	-0.0	-0.2	2.9	-0.0
LS	0.2	2.9	-0.0	-0.2	0.4	-0.0

LOAD GROUP DESCRIPTION

- DL : Roof Dead Load
- COLL : Roof Collateral Load
- PL1 : Pattern Live Load [PL1x]
- PL2 : Pattern Live Load [PL2x]
- SNOW : Roof Snow Load
- LL : Roof Live Load
- EQ : Lateral Seismic Load [parallel to plane of frame]
- WL1 : Wind from Left to Right with +Gcpi
- WL2 : Wind from Left to Right with -Gcpi
- LWL1 : Windward Corner Left with +Gcpi
- LWL2 : Windward Corner Right with +Gcpi
- LWL3 : Windward Corner Left with -Gcpi
- LWL4 : Windward Corner Right with -Gcpi
- WL3 : Wind from Right to Left with +Gcpi
- WL4 : Wind from Right to Left with -Gcpi
- SBAL : Code Calculated Balanced Roof Snow Load
- RS : Unbalanced Right Roof Snow Load
- LS : Unbalanced Left Roof Snow Load

ADDITIONAL NOTES

- (1) Pattern live or snow load cases are not concurrent with any other live or snow load cases.

FRAME ID #2
cs 40./16./20. 20./110./43.

USER NAME:Rafael.arcerabad
JOB NAME:91454A

DATE:12/03/25 PAGE:2-2
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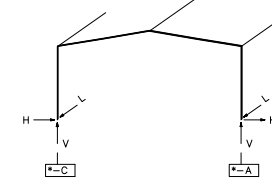
SUPPORT REACTIONS FOR EACH LOAD GROUP

*LOCATION: Gridlines: 3

NOTES:(1) All reactions are in kips and kip-ft.
(2) The seismic overstrength factor (Omega) is not included in the "RBDWEQ" and "RBUPEQ" Load Group reactions.
(3) Seismic "BASE-ONLY" combination reactions include an overstrength factor of: 2.000
(4) Primary wind load cases are not concurrent.
(5) X-bracing reactions (RBPULW and RBUPEQ) are combined with LWL and LEQ groups only.

TIME:17:10:59

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 3						
COLUMN	*~C			*~A		
	H	V	L	H	V	L
DL	0.4	1.4	-0.0	-0.4	1.4	-0.0
COLL	0.1	0.4	-0.0	-0.1	0.4	-0.0
SNOW	3.6	12.0	-0.0	-3.6	12.0	-0.0
LL	1.4	4.8	-0.0	-1.4	4.8	-0.0
RBDWEQ	-0.0	2.5	-0.0	0.0	2.5	-0.0
EQ	-0.7	-0.6	-0.0	-0.7	0.6	-0.0
RBUPEQ	0.0	-2.5	-3.1	-0.0	-2.5	-3.1
WL1	-3.5	-7.0	-0.0	-0.9	-4.2	-0.0
WL2	-3.7	-4.2	-0.0	-0.7	-1.4	-0.0
WL3	0.9	-4.2	-0.0	3.5	-7.0	-0.0
WL4	0.7	-1.4	-0.0	3.7	-4.2	-0.0
LWL1	0.5	-5.9	-0.0	-0.0	-5.0	-0.0
RBPULW	0.0	-2.3	-2.9	-0.0	-2.3	-2.9
WL2	0.0	-5.0	-0.0	-0.0	-5.9	-0.0
LWL3	0.2	-3.2	-0.0	0.2	-2.2	-0.0
LWL4	-0.2	-2.2	-0.0	-0.2	-3.2	-0.0
SBAL	3.2	10.8	-0.0	-3.2	10.8	-0.0
RS	2.7	6.1	-0.0	-2.7	10.9	-0.0

LOAD GROUP DESCRIPTION

- DL : Roof Dead Load
- COLL : Roof Collateral Load
- SNOW : Roof Snow Load
- LL : Roof Live Load
- RBDWEQ : Downward Acting Rod Brace Load from Long. Seismic
- EQ : Lateral Seismic Load [parallel to plane of frame]
- RBUPEQ : Upward Acting Rod Brace Load from Long. Seismic
- WL1 : Wind from Left to Right with +Gcpi
- WL2 : Wind from Left to Right with -Gcpi
- WL3 : Wind from Right to Left with +Gcpi
- WL4 : Wind from Right to Left with -Gcpi
- LWL1 : Windward Corner Left with +Gcpi
- LWL2 : Upward Acting Rod Brace Load from Long. Wind
- LWL3 : Windward Corner Right with +Gcpi
- LWL4 : Windward Corner Left with -Gcpi
- SBAL : Code Calculated Balanced Roof Snow Load
- RS : Unbalanced Right Roof Snow Load

FRAME ID #1
cs 40./16./19.75 20./110./4

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JOB NAME:91454A

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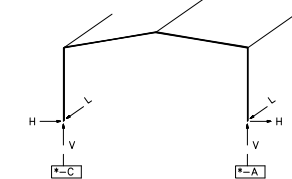
SUPPORT REACTIONS FOR EACH LOAD GROUP

*LOCATION: Gridlines: 2 4

NOTES:(1) All reactions are in kips and kip-ft.
(2) The seismic overstrength factor (Omega) is not included in the "RBDWEQ" and "RBUPEQ" Load Group reactions.
(3) Seismic "BASE-ONLY" combination reactions include an overstrength factor of: 2.000
(4) Primary wind load cases are not concurrent.
(5) X-bracing reactions (RBPULW and RBUPEQ) are combined with LWL and LEQ groups only.

TIME:17:10:50

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 2 4						
COLUMN	*~C			*~A		
	H	V	L	H	V	L
DL	0.4	1.4	-0.0	-0.4	1.4	-0.0
COLL	0.1	0.4	-0.0	-0.1	0.4	-0.0
SNOW	3.5	11.9	-0.0	-3.5	11.8	-0.0
LL	1.4	4.7	-0.0	-1.4	4.7	-0.0
RBDWEQ	-0.0	2.5	-0.0	0.0	2.5	-0.0
EQ	-0.7	-0.6	-0.0	-0.7	0.6	-0.0
RBUPEQ	0.0	-2.5	-3.1	-0.0	-2.9	-3.1
WL1	-3.4	-6.9	-0.0	-0.9	-4.1	-0.0
WL2	-3.7	-4.2	-0.0	-0.7	-1.4	-0.0
WL3	0.9	-4.1	-0.0	3.4	-6.9	-0.0
WL4	0.7	-1.4	-0.0	3.7	-4.2	-0.0
LWL1	0.4	-5.9	-0.0	-0.0	-4.9	-0.0
RBPULW	0.0	-2.3	-2.9	-0.0	-2.3	-2.9
LWL2	0.0	-4.9	-0.0	-0.4	-5.9	-0.0
LWL3	0.2	-3.1	-0.0	0.2	-2.2	-0.0
LWL4	-0.2	-2.2	-0.0	-0.2	-3.1	-0.0
SBAL	3.2	10.7	-0.0	-3.2	10.7	-0.0
RS	2.7	6.0	-0.0	-2.7	10.7	-0.0

LOAD GROUP DESCRIPTION

- DL : Roof Dead Load
- COLL : Roof Collateral Load
- SNOW : Roof Snow Load
- LL : Roof Live Load
- RBDWEQ : Downward Acting Rod Brace Load from Long. Seismic
- EQ : Lateral Seismic Load [parallel to plane of frame]
- RBUPEQ : Upward Acting Rod Brace Load from Long. Seismic
- WL1 : Wind from Left to Right with +Gcpi
- WL2 : Wind from Left to Right with -Gcpi
- WL3 : Wind from Right to Left with +Gcpi
- WL4 : Wind from Right to Left with -Gcpi
- LWL1 : Windward Corner Left with +Gcpi
- RBPULW : Upward Acting Rod Brace Load from Long. Wind
- LWL2 : Windward Corner Right with +Gcpi
- LWL3 : Windward Corner Left with -Gcpi
- LWL4 : Windward Corner Right with -Gcpi
- SBAL : Code Calculated Balanced Roof Snow Load
- RS : Unbalanced Right Roof Snow Load

FRAME ID #2
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JOB NAME:91454A

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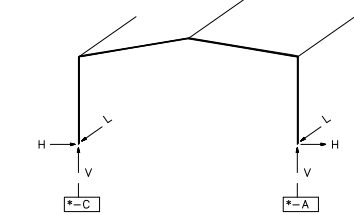
SUPPORT REACTIONS FOR EACH LOAD GROUP

*LOCATION: Gridlines: 3

NOTES:(1) All reactions are in kips and kip-ft.
(2) The seismic overstrength factor (Omega) is not included in the "RBDWEQ" and "RBUPEQ" Load Group reactions.
(3) Seismic "BASE-ONLY" combination reactions include an overstrength factor of: 2.000
(4) Primary wind load cases are not concurrent.
(5) X-bracing reactions (RBPULW and RBUPEQ) are combined with LWL and LEQ groups only.

TIME:17:10:59

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 3						
COLUMN	*~C			*~A		
	H	V	L	H	V	L
LS	2.7	10.9	-0.0	-2.7	6.1	-0.0
RBDWLW	-0.0	2.3	-0.0	0.0	2.3	-0.0

LOAD GROUP DESCRIPTION

- LS : Unbalanced Left Roof Snow Load
- RBDWLW : Downward Acting Rod Brace Load from Long. Wind

FRAME ID #1
cs 40./16./19.75 20./110./4

USER NAME:Rafael.arcerabad
JOB NAME:91454A

DATE:12/03/25 PAGE:1-3
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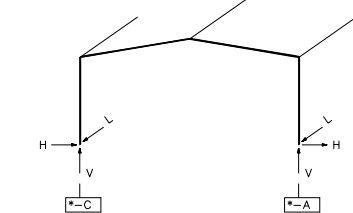
SUPPORT REACTIONS FOR EACH LOAD GROUP

*LOCATION: Gridlines: 2 4

NOTES:(1) All reactions are in kips and kip-ft.
(2) The seismic overstrength factor (Omega) is not included in the "RBDWEQ" and "RBUPEQ" Load Group reactions.
(3) Seismic "BASE-ONLY" combination reactions include an overstrength factor of: 2.000
(4) Primary wind load cases are not concurrent.
(5) X-bracing reactions (RBPULW and RBUPEQ) are combined with LWL and LEQ groups only.

TIME:17:10:50

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 2 4						
COLUMN	*~C			*~A		
	H	V	L	H	V	L
LS	2.7	10.7	-0.0	-2.7	6.0	-0.0
RBDWLW	-0.0	2.3	-0.0	0.0	2.3	-0.0

LOAD GROUP DESCRIPTION

- LS : Unbalanced Left Roof Snow Load
- RBDWLW : Downward Acting Rod Brace Load from Long. Wind

NOTES

- 1) THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING.
- 2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT (UNLESS NOTED OTHERWISE).
- a) A REACTION TABLE IS PROVIDED WITH THE REACTIONS FOR EACH LOAD GROUP.
- b) RIGID FRAMES
- (1) GABLED BUILDINGS
- (a) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE LEFT SIDE OF THE BUILDING, AS SHOWN ON THE ANCHOR ROD DRAWING, FROM THE OUTSIDE OF THE BUILDING.
- (b) INTERIOR COLUMNS ARE SPACED FROM LEFT SIDE TO RIGHT SIDE.
- (2) SINGLE SLOPE BUILDINGS
- (a) LEFT COLUMN IS THE LOW SIDE COLUMN.
- (b) RIGHT COLUMN IS THE HIGH SIDE COLUMN.
- (c) INTERIOR COLUMNS ARE SPACED FROM LOW SIDE TO HIGH SIDE.
- c) ENDWALLS
- (1) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE WALL FROM THE OUTSIDE.
- (2) INTERIOR COLUMNS ARE SPACED FROM LEFT TO RIGHT.
- d) ANCHOR ROD SIZE IS DETERMINED BY SHEAR AND TENSION AT THE BOTTOM OF THE BASE PLATE. THE LENGTH OF THE ANCHOR ROD AND METHOD OF LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY THE FOUNDATION ENGINEER.
- e) ANCHOR RODS ARE ASTM F1554 Gr. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.
- f) X-BRACING
- (1) ROD BRACING REACTIONS HAVE BEEN INCLUDED IN VALUES SHOWN IN THE REACTION TABLES.
- (2) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUPEQ AND RBDWEQ) DO NOT INCLUDE THE AMPLIFICATION FACTOR, R_d .
- (3) FOR CANADA BUILDING CODE (NBC), WHEN X-BRACING IS PRESENT IN THE SIDEWALL OR ENDWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUPEQ & RBDWEQ) ARE MULTIPLIED BY FORCE REDUCTION FACTOR, R_d , WHEN SPECIFIED SHORT-PERIOD SPECTRAL ACCELERATION RATIO $I_p \leq 0.2$ IS GREATER THAN 0.45.
- 3) REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE BEARING PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN.
- a) FOR PROJECTS USING ULTIMATE DESIGN WIND SPEEDS SUCH AS 2012 IBC, 2015 IBC, OR FLORIDA BUILDING CODE, THE WIND LOAD REACTIONS ARE AT A STRENGTH VALUE WITH A LOAD FACTOR OF 1.0.
- b) FOR IBC CODES, THE SEISMIC REACTIONS PROVIDED ARE AT A STRENGTH LEVEL AND DO NOT CONTAIN THE RHO FACTOR.
- c) FOR NBCC CODES, THE SEISMIC REACTIONS PROVIDED DO NOT CONTAIN THE R_d FACTOR.
- THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.

By

Ch'd

Description

Date

Revision

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

FORTIFY
BUILDING SOLUTIONS

MUELLER
BUILDING SOLUTIONS

Project Name & Location:
MABA BROWN
1300 VALLEY DR
ODDEN UT 84401-0808

Customer:
CITY OF OGDEN-212366
2549 WASHINGTON BLVD
ODDEN UT 84401
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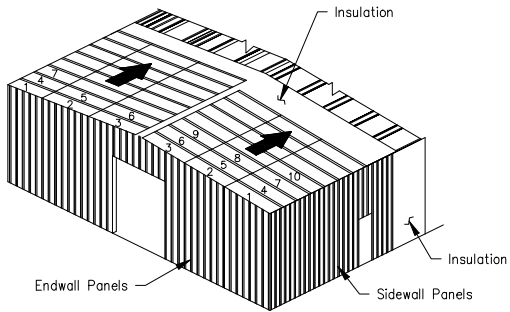
ADDITIONAL NOTES:
(1) Pattern live or snow load cases are not concurrent with any other live or snow load cases.

- 1) THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY A FUTURE MAILING.
- 2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT (UNLESS NOTED OTHERWISE).
 - a) A REACTION TABLE IS PROVIDED WITH THE REACTIONS FOR EACH LOAD GROUP.
 - b) RIGID FRAMES
 - (1) GABLE BUILDINGS
 - a) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE LEFT SIDE OF THE BUILDING FROM THE ANCHOR ROD DRAWING, FROM THE OUTSIDE OF THE BUILDING.
 - b) INTERIOR COLUMNS ARE SPACED FROM LEFT SIDE TO RIGHT SIDE.
 - (2) SINGLE SLOPE BUILDINGS
 - a) LEFT COLUMN IS THE LOW SIDE COLUMN.
 - b) RIGHT COLUMN IS THE HIGH SIDE COLUMN.
 - c) INTERIOR COLUMNS ARE SPACED FROM LOW SIDE TO HIGH SIDE.
 - c) ENDWALLS
 - (1) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE WALL FROM THE OUTSIDE.
 - (2) INTERIOR COLUMNS ARE SPACED FROM LEFT TO RIGHT.
 - d) ANCHOR ROD SIZE IS DETERMINED BY SHEAR AND TENSION AT THE BOTTOM OF THE BASE PLATE. THE LENGTH OF THE ANCHOR ROD AND METHOD OF LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY THE ENGINEER.
 - e) ANCHOR RODS ARE ASTM F1554 GR. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.
- 3) X-BRACING
 - (1) ROD BRACING REACTIONS HAVE BEEN INCLUDED IN VALUES SHOWN IN THE REACTION TABLES.
 - (2) FOR IBC AND UBC BASE BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL OR ENDWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (R_{BUPEU} AND R_{BWDUE}) DO NOT INCLUDE THE AMPLIFICATION FACTOR, I_0 .
 - (3) FOR CANADA BUILDING CODE (NBC), WHEN X-BRACING IS PRESENT IN THE SIDEWALL OR ENDWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (R_{BUPEU} & R_{BWDUE}) ARE MULTIPLIED BY FORCE REDUCTION FACTOR, R_d WHILE IN THE SIDEWALL SHORT PERIOD SPECTRAL ACCELERATION RATIO ($F_a/S_0.2$) IS GREATER THAN 0.45.
- 3) REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN.
 - a) FOR PROJECTS USING ULTIMATE DESIGN WIND SPEEDS SUCH AS 2012 IBC, 2015 IBC, OR FLORIDA BUILDING CODE, THE WIND LOAD REACTIONS ARE AT A STRENGTH VALUE WITH A LOAD FACTOR OF 1.0.
 - b) FOR IBC CODES, THE SEISMIC REACTIONS PROVIDED ARE AT A STRENGTH LEVEL AND DO NOT CONTAIN THE RHO FACTOR.
 - c) FOR NBCC CODES, THE SEISMIC REACTIONS PROVIDED DO NOT CONTAIN THE $R_d R_s$ FACTOR.

THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED FOR THE FOLLOWING REASON TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMIC FOUNDATION DESIGN.

KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

For PBR Roofs With Ridge Panels, It Is Recommended That Both Sides Of The Ridge Be Sheeted Simultaneously. This Will Keep The Insulation Covered For The Maximum Amount Of Time And The Panel Ribs Can Be Kept In Proper Alignment For The Ridge Panel. This Is Critical On The PBR Panels So That The Ridge Caps Can Be Properly Installed. Check For Proper Coverage As The Sheeting Progresses.



Install The First Run Of Roof Panels Across The Building From Eave To Eave Or Eave To Ridge. To Allow Proper Installation Of The Rake Trim, The Starting Location For The First Panel Must Be As Shown In The Rake Details Included With The Erection Drawings. When The First Run Is Properly Located And Aligned With The Correct Endlaps And Eave Overhangs, Fasten To Purlins. Roof Panels Should Be Installed So That The Sidelap Is In A Direction Away From Prevailing Wind. Refer To Appropriate Lap Details Included With The Erection Drawings.

Install Remaining Roof Insulation And Panels. To Avoid Accumulative Error Due To Panel Coverage Gain Or Loss, Properly Align Each Panel Before It Is Fastened. Occasional Checks Should Be Made To Ensure That Correct Panel Coverage Is Maintained. Special Attention Should Be Given To Fastener, Sealant And Closure Requirements. Refer To Details Included With The Erection Drawings.

At Finishing End Of Roof, The Last panels May Require Field Modification For Installation Of Rake Trim. Refer To Rake Details Included With The Erection Drawings. DO NOT BACK LAP THROUGH FASTENED ROOF PANELS.

NOTE: Roof Types And Installation Requirements Will Vary. Refer To The Appropriate Details For Specific Panel Used.

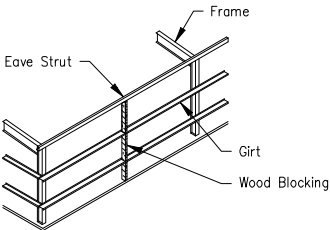
IMPORTANT: Loose Fasteners, Blind Rivets, Drill shavings, Etc.. Must Be Removed From The Roof To Guard Against Corrosion.

Proper Horizontal And Vertical Alignment Of Supporting Structure (Girts Or Other Framing) Is The Responsibility Of The Installer. Failure To Align The Secondary members Properly Prior To Wall Installation Can Have A Direct Impact On The Final Appearance And Performance Of The Installed Wall System For Which The Metal Building Manufacturer Is Not Responsible.

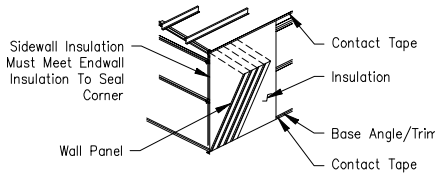
Before installing wall panels, the girts must be aligned to a level position so that there is no visible sag. This should be done directly ahead of panel installation.

Girt Leveling May Be Accomplished By Standing A Section Of Gable Angle Vertically Against The Outside Girt Flanges At Approximate Mid-bay Location. When Girts Are Level, Attach The Girt Flanges To The Angle With Vise Grip Pliers Or Temporary Screws. Wood Blocking Cut To Fit The Spaces May Also Be Used For Alignment.

Note:
Temporary Girt Blocking Is Not Recommended On Concealed Fastener Panels. The Removal Of The Blocks After Panel Installation Can Cause Oil Canning.

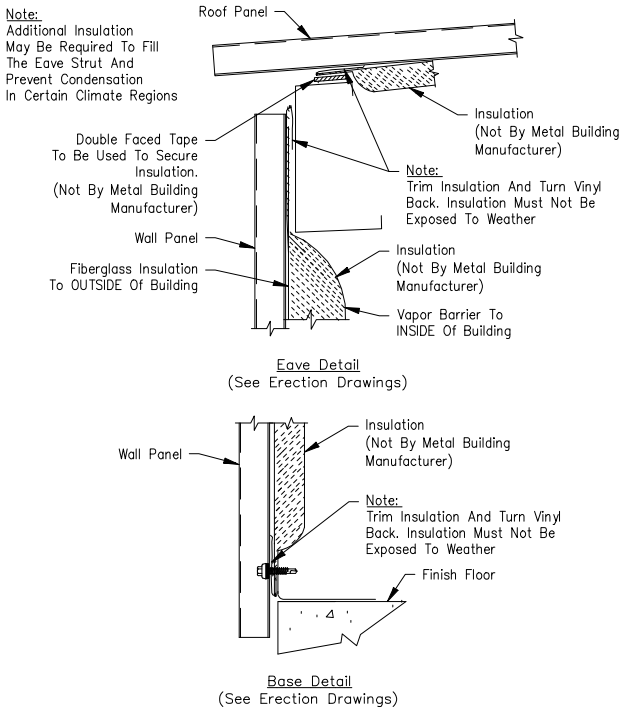


Note:
Wall Panel Type And Installation Details Will Vary. Refer To The Erection Drawings
And Details For The Specific Panel Used For Your Building.



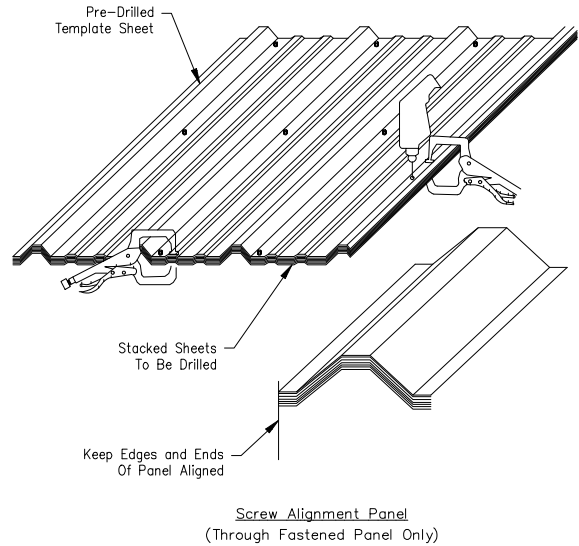
If Walls Are To Be Insulated With Blanket Insulation Over Girt Girt Flanges, Base And Eave, Place A Continuous Run Of Contact Tape Along The Eave Strut And Base Member.

Note:
At The Base, Cut Off The Insulation A Minimum Of $\frac{1}{2}$ " Above The Bottom Of The Wall Panel. This Will Prevent The Insulation From Hanging Below The Wall Panel And Wicking Moisture.



Sidewall Panels Should Be Installed So That The Panel Sidelap Is In A Direction Away From The Prevailing Wind. Refer To Appropriate Lap Detail Included With Erection Drawings.)

Note:
Check Periodically To Ensure That All Panels Are Aligned And Plumb.



Note:
After Drilling Panels, It Is Important To Clean Metal Filings Off All Panel Surfaces, Including Between Panels That Are Not Installed That Day, To Avoid Rust Stains.

Clip Connection To Purlin Web

- * 2 Fasteners Minimum
- * Clip
- * Hanger
- 150 LB. Maximum

Clip Connection To Purlin Flange

- * 1" Maximum
- * Clip
- * Hanger
- * 2 Fasteners Minimum
- 100 LB. Maximum

Fastener Type Adapter To Purlin Flange

- * 1" Maximum
- * Fastener Type Adapter
- * Hanger
- 100 LB. Maximum

Clip Connection To Purlin Web

- * Purlin
- * 2 Fasteners Minimum
- * Clip
- * Angle
- * Hanger
- * 2 Fasteners Minimum
- 150 LB. Maximum At Each Purlin

Angle Connection To Purlin Flange

- * Purlin
- * 1" Maximum
- * Angle
- * Hanger
- * 2 Fasteners Minimum
- 100 LB. Maximum At Each Purlin

Do Not Install Purlin Clips of any kind on the Flange of the Purlin

* Denotes Material Not Provided By Metal Building Manufacturer.

The Total Hanger Load Shall Not Exceed The Design Collateral Load For The Building. Example:
 $5'-0$ (Purlin Spacing) X $5'-0$ (Hanger Spacing) X 6 PSF (collateral Load) = 150 Lbs.
 See Cover Sheet For Design Collateral Load For This Building.
 Note: If The Building Is Designed For 0 PSF Collateral Load, Then Adding Any Suspended System (i.e. Duct Work, Piping, Lights, Ceilings, Etc.) Will Correspondingly Reduce The Design Live Load.

The technical drawing illustrates the assembly of a roof curb. The top portion is a side elevation showing the curb base, roof panels, and purlin line. Key dimensions and labels include:

- Curb Base Length**: The overall length of the curb base.
- Down Hill** and **Up Hill**: Indicators for the slope direction.
- Roof Curb**: The main structural component.
- Roof Panel**: The panels being installed.
- Purlin Line**: The structural support line.
- Floating Panel Support**: A support for the roof panel.
- Endlap**: The overlapping of panels, with a minimum of 6" and a maximum of 4" specified.
- Panel Clip Ht.**: The height of the panel clip.
- 1'-0" Min.**: A minimum dimension for the curb base.

 A legend indicates that diamonds represent roof panel support locations and triangles represent curb base support locations.

 The bottom portion is a cross-section labeled **Section "A"** (Insulated When Specified). It shows:

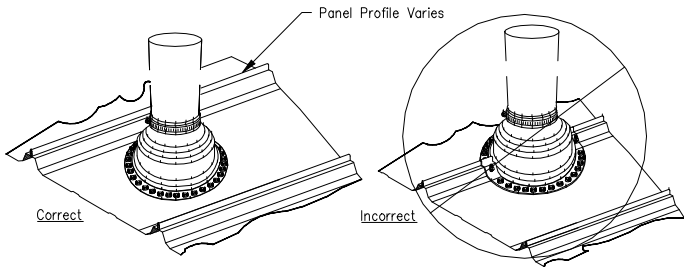
- Up Lift Plate (If Required)**: A plate on the exterior side.
- Curb Base**: The base of the curb.
- 2"**: The thickness of the curb base.
- Cell Cap Down Hill Outside**: The outer cap on the down-slope side.
- Cell Cap Up Hill Inside**: The inner cap on the up-slope side.
- Panel Rib Profile**: The profile of the roof panel.

The Curb Details Shown Illustrate The Building Manufacturers Recommended Curb Style And Installation Method. It Is The Erector/Installer's Responsibility To Provide The Proper Curb Style And Install Them In Accordance With The Procedures Established By These Details. Failure By The Erector/Installer To Follow These Recommendations May Result In The Curbs Damaging The Roof System Or Excluded From Warranties.

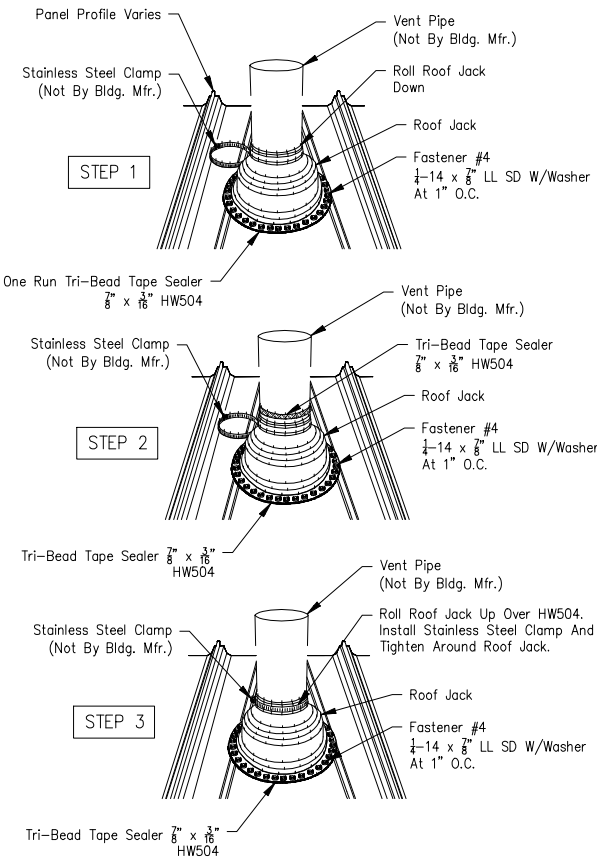
- All Roof Curbs To Be:
 1. .080 Aluminum Or 18 Ga. Stainless Steel (No Galvalume® Or Galvanized).
 2. Panel Rib To Panel Rib (No Flat Skirt Or Lay-Over Curbs).
 3. Installed With Down Hill End Over Panel And Up Hill End Under Panel Application For Water Flow At Panel Splice.
4. Up Lift Prevention For Clip Applied Roof Systems Are Required If:
 - a. Wind Loads Exceed 110 MPH.
 - b. Curb Base Crosses A Purlin.
5. Supported on (4) Sides By Primary Or Secondary Framing.
6. Maximum Single Curb Weight Recommended Is 1500 Lbs.



General Installation Notes

- Do Not Use Galvanized Roof Jacks, Lead Hats, Or Other Residential Grade Roof Jacks. These Roof Jacks Do Not Have 20 Year Service Life And In Case Of Lead Hats Will Cause Galvanic Corrosion Of The Roof Panel.
- Use EPDM Rubber Roof Jacks With An Integral Aluminum Band Bonded Into The Perimeter Of The Base. EPDM Roof Jacks Have A Temperature Range From -65°F To 212°F. Use Silicone Roof Jacks For High Temperatures. Silicone Roof Jacks Have A Temperature Range Of -100°F To 437°F.
- Retrofit Roof Jacks Are Available For Applications In Which The Top Of The Pipe Is Inaccessible, Eliminating The Possibility Of Sliding The Roof Jack Over The Top Of The Pipe.
- Do Not Use Tube Sealant To Seal The Roof Jack To The Roof Panels. Use Roll Tape Sealer Between The Roof Jack And The Roof Panel And Attach The Roof Jack To The Roof Panel With Fastener #4 $\frac{1}{2}$ - 14 X $\frac{1}{2}$ LL SD W/washer At 1" O.C. Around The Base Of The Roof Jack. See Table Below For Quantities.
- Trim The Top Of The Roof Jack To Fit Over The Pipe, Roll Down The Roof Jack Over The Pipe And Apply Tape Sealer For The Perimeter Of The Roof Jack Base Between The Roof Jack And The Roof Panel. Apply Tape Sealer Around The Pipe And Install A Stainless Steel Clamp (Not By Bldg. Mfr.) Over The Top Of The Roof Jack And Firmly Tighten To Form A Secure Compression Seal.
- If The Pipe Diameter Is So Large To Block The Flow Of Water Down The Roof Panel, A Flat Base Roof Curb Must Be Installed Into The Roof And The Roof Jack Will Be Sealed To The Curb. A Two Piece Curb May Be Required When The Top Of The Pipe Is Inaccessible.
- In Northern Climates, The Pipe Penetration Should Be Protected From Moving Ice Or Snow With A Snow Retention System Immediately Up Slope From The Pipe.



Install Pipe In Center To Allow Base Of Roof Jack To Lay Flat on Panel.
Cannot Encompass More Than 75% Of Panel.

[illegible]

 <p>MUELLER METAL BUILDING SOLUTIONS</p>	 <p>FORTIFY BUILDING SOLUTIONS</p>	<p>Customer: CITY OF OGDEN-212366 2549 WASHINGTON BLVD OGDEN UT 84401 MARA BROWN</p>	<p>Project Name & Location: MARA BROWN 1500 VALLEY DR OGDEN UT 84401-0808</p>	<p>Drawing Status: <input type="checkbox"/> Issued For Approval <input checked="" type="checkbox"/> Issued For Construction <input type="checkbox"/> Issued For Permit </p>	<p>Comerstone Building Brands 13105 Northwest Freeway, Suite 500 Houston, TX 77040 comerstonebuildingbrands.com</p>
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Scale:	NOT TO SCALE
Drawn by:	AXD 12/9/25
Checked by:	MC 12/15/25
Project Engineer:	
Job Number:	20-B-91454
Sheet Number:	R3 of 12

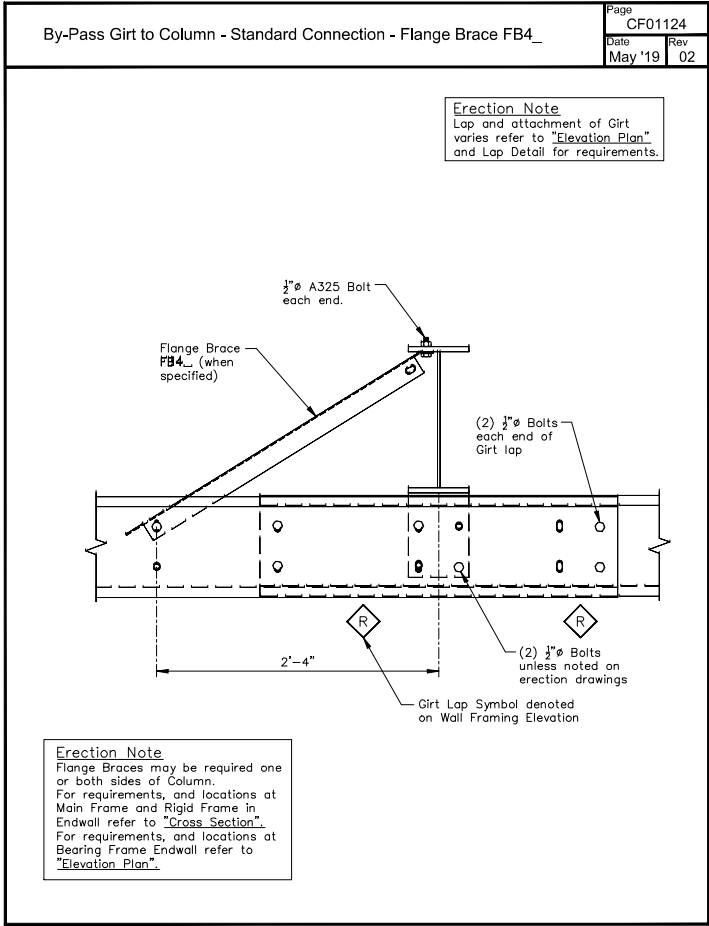
The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

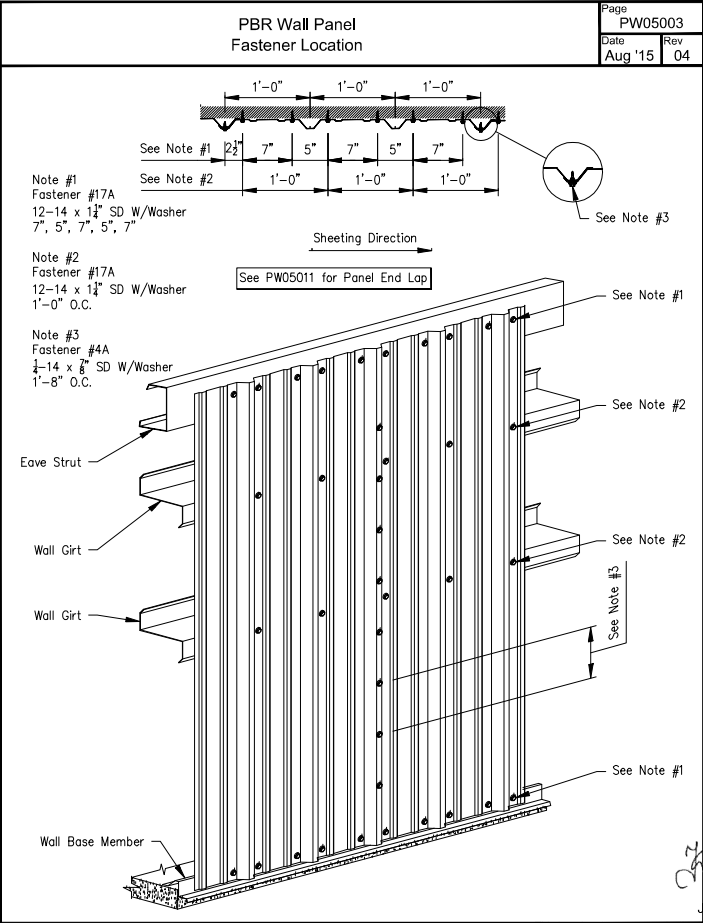
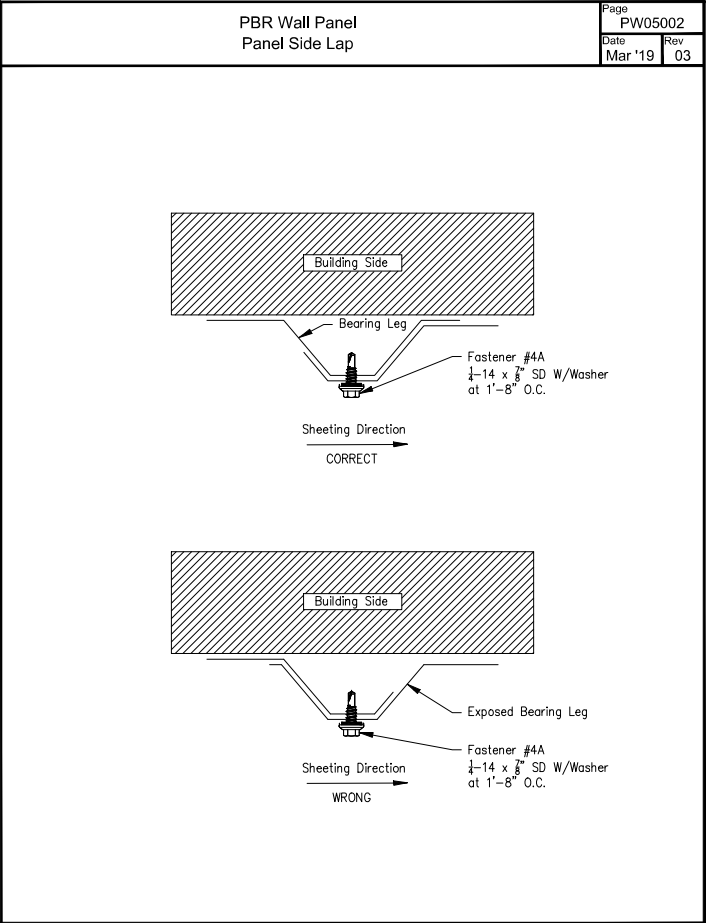
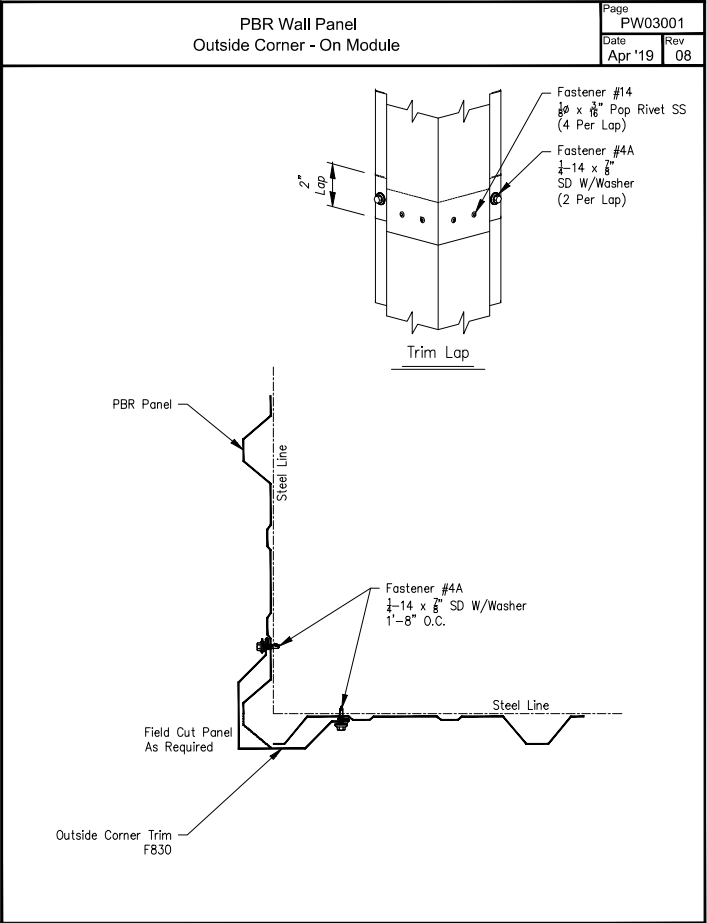
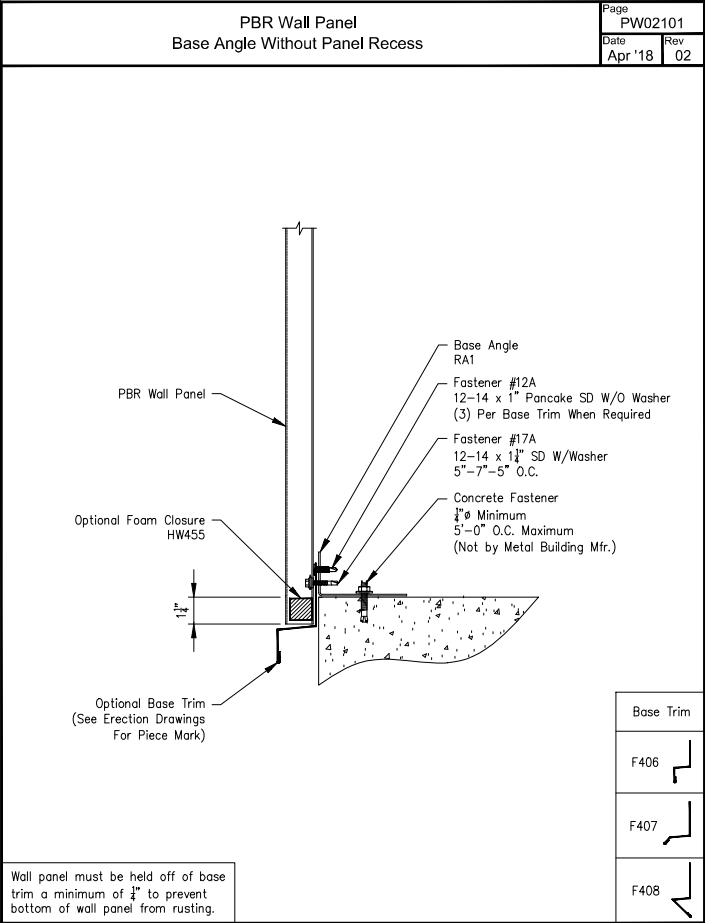
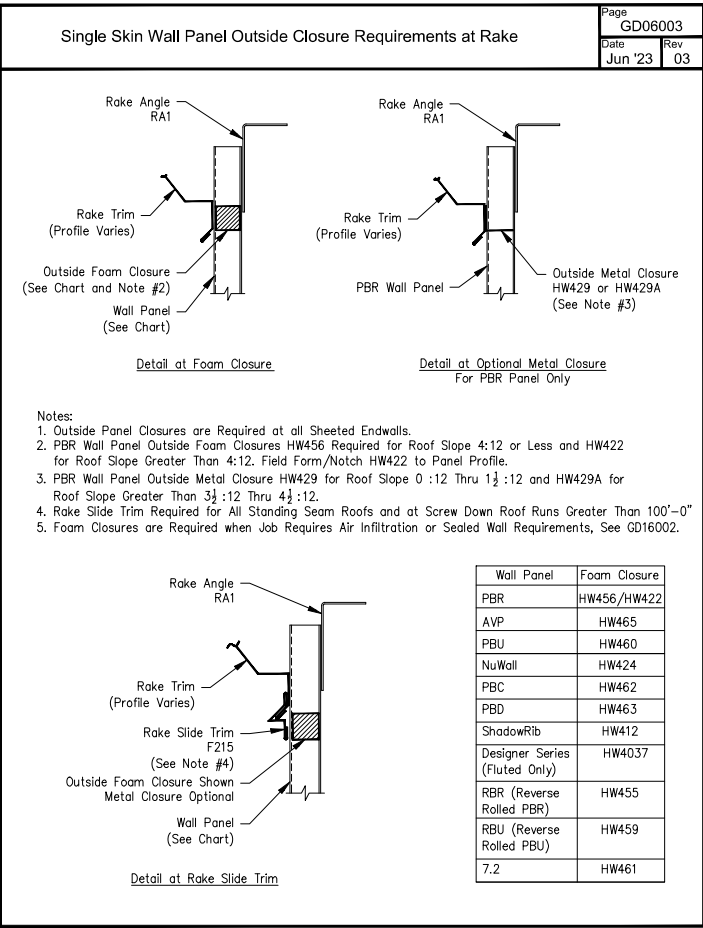
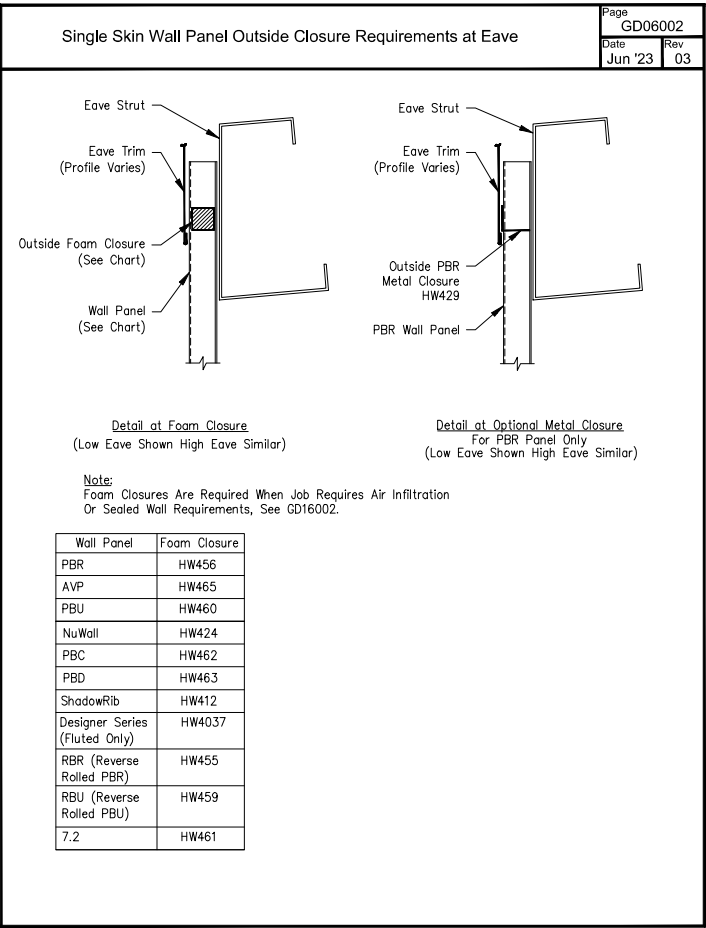
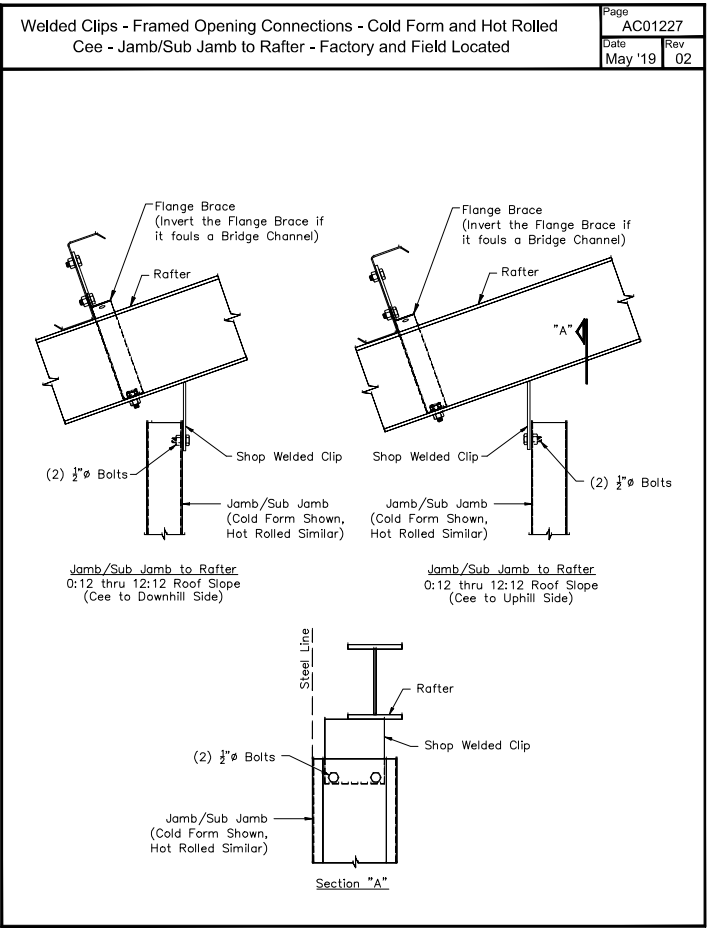
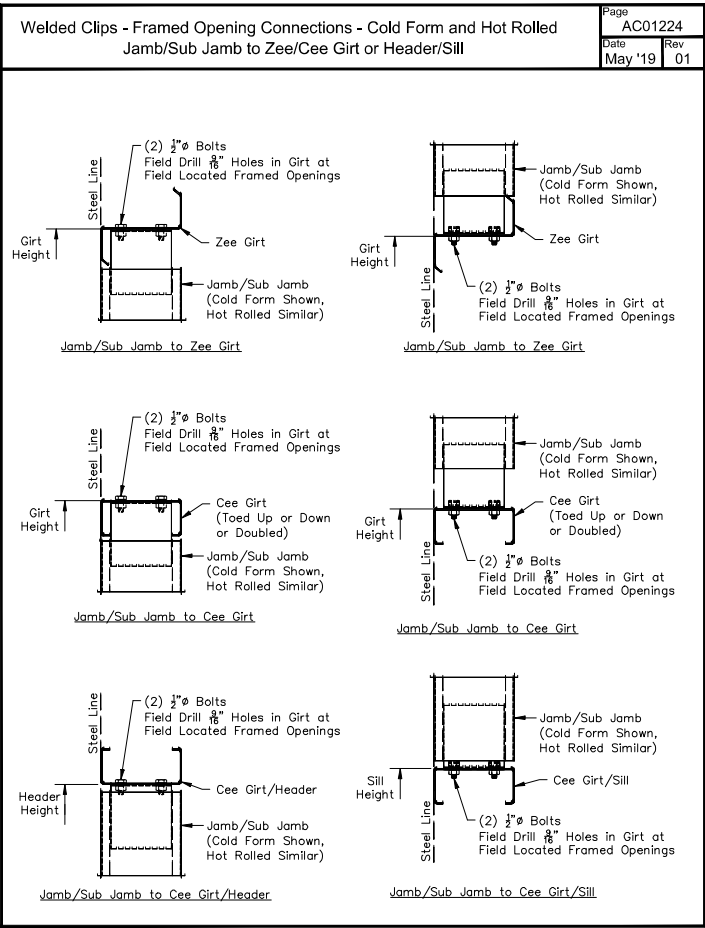
KAUSHIKKUMAR J. PATEL, P.E.
 UTAH P.E. 12592792-2202

Jan 02, 2026

This item has been electronically signed and sealed by Kaushikkumar J. Patel, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

No. 12592792
KAUSHIKKUMAR J.
PATEL
STATE OF UTAH





Checklist table with columns: Ck'd, By, Date, Revision, Description.

Project Name & Location: Cornerstone Building Brands, 13105 Northwest Freeway, Suite 500, Houston, TX 77040.

Customer: CITY OF OGDEN-212366, 2549 WASHINGTON BLVD, OGDEN UT 84401, MABA BROWN.

Drawing Status: Issued For Approval, Issued For Construction, Issued For Permit.

Scale: NOT TO SCALE

Drawn by: AXD 12/9/25

Checked by: MC 12/15/25

Project Engineer: KAUSHIKKUMAR J. PATEL, P.E.

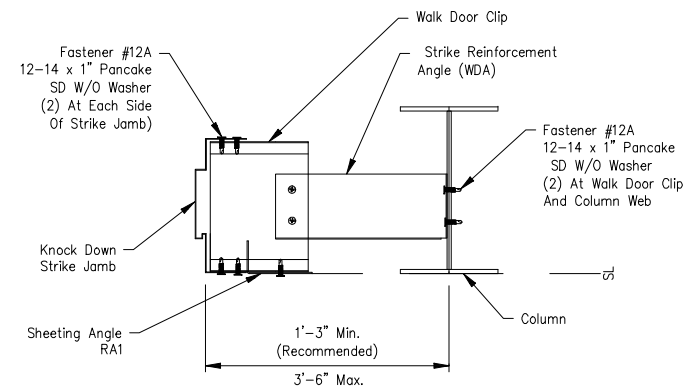
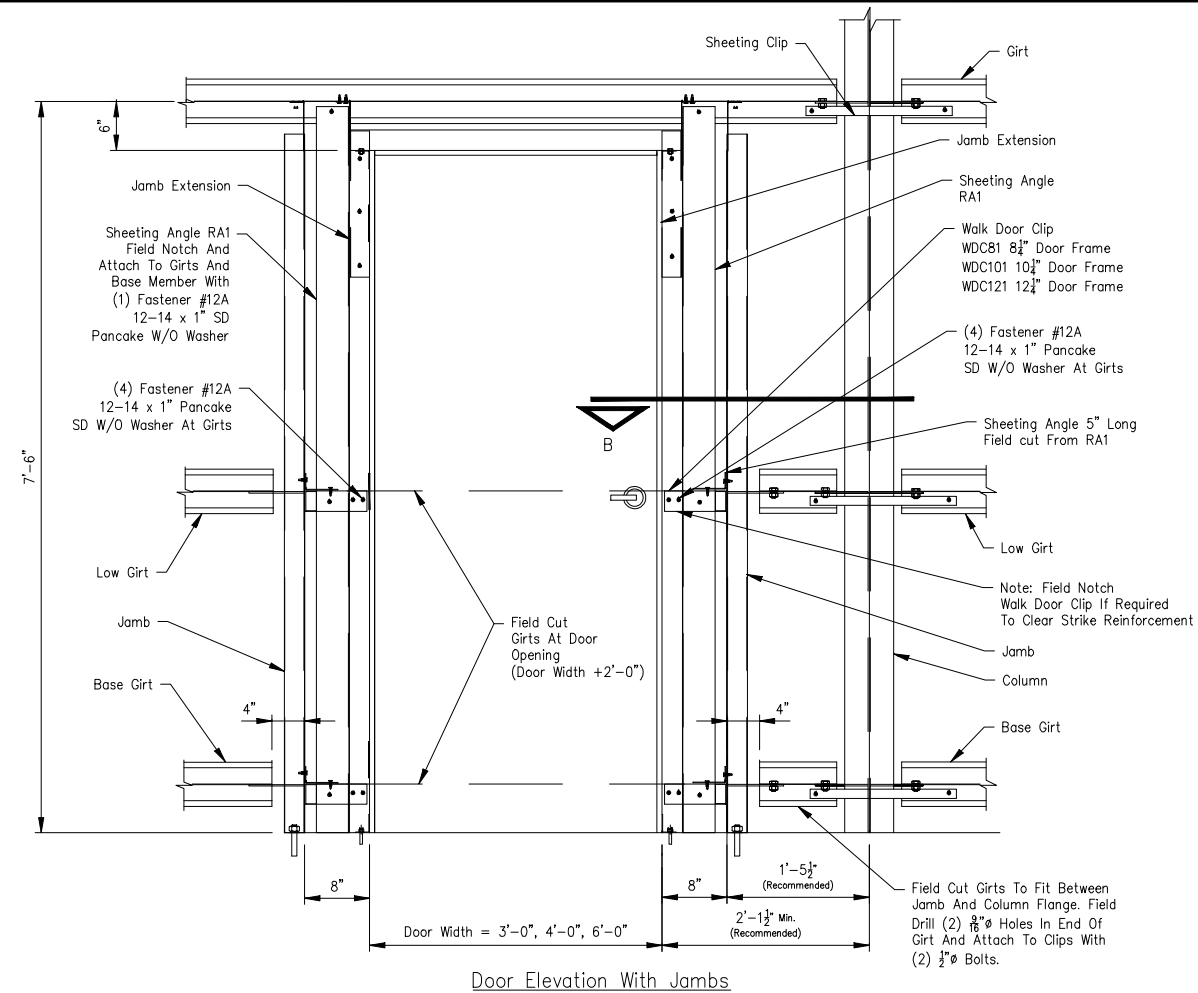
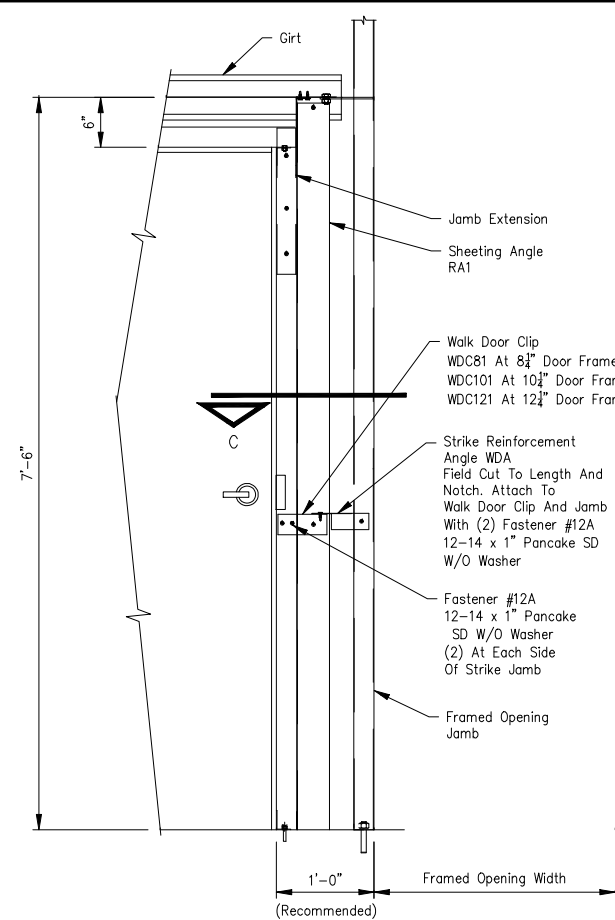
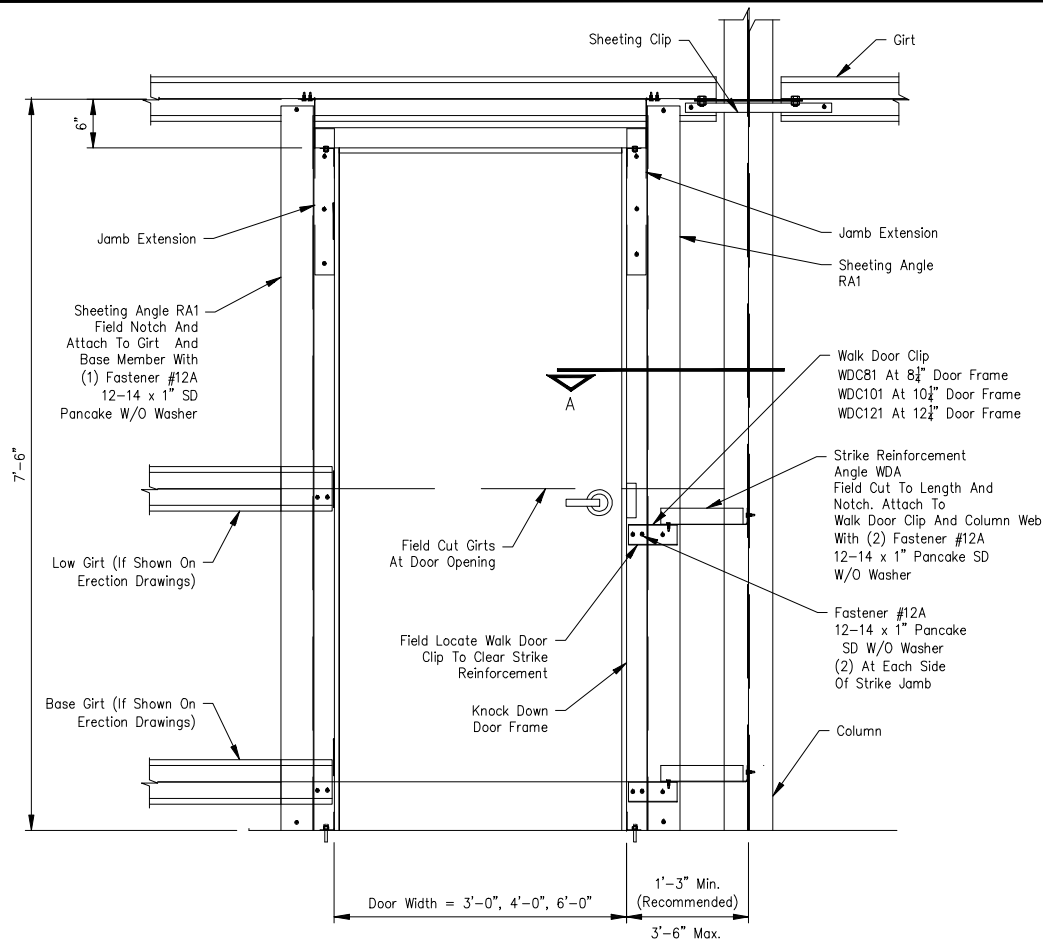
Job Number: 20-B-91454

Sheet Number: R6 of 12

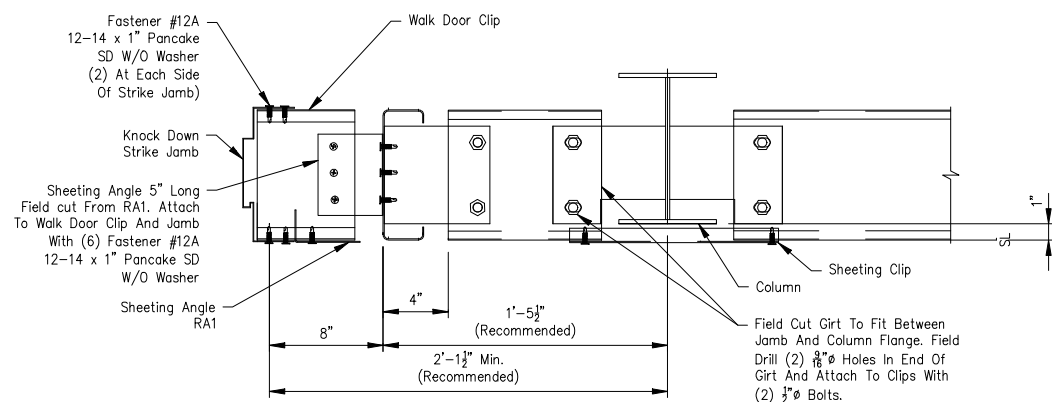
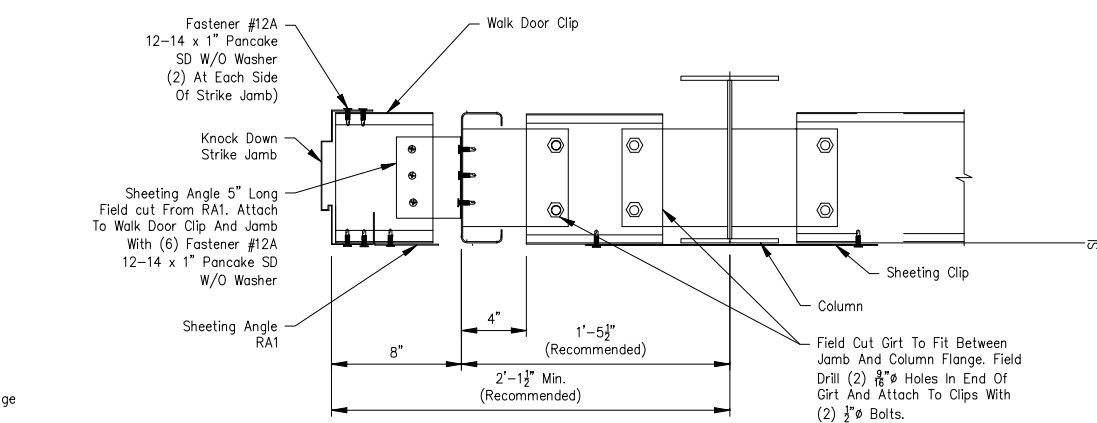
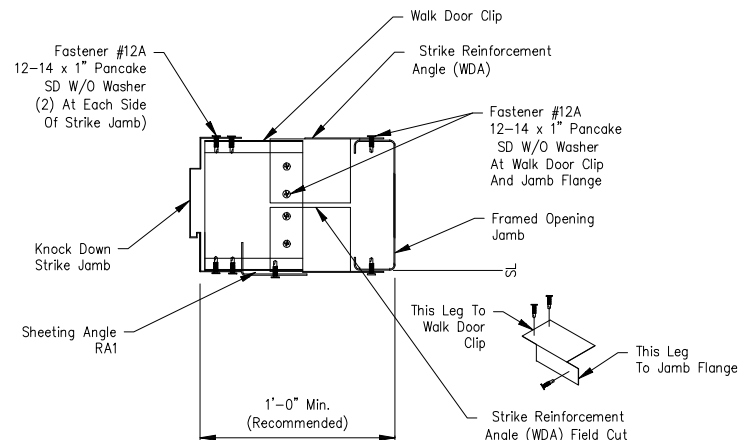
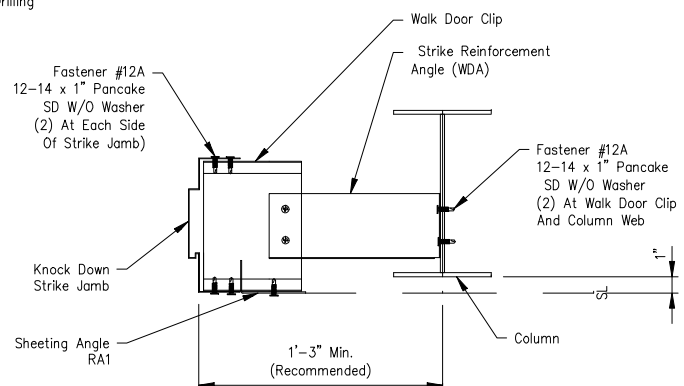
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KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

Professional Engineer Seal: KAUSHIKKUMAR J. PATEL, No. 12592792, STATE OF UTAH.

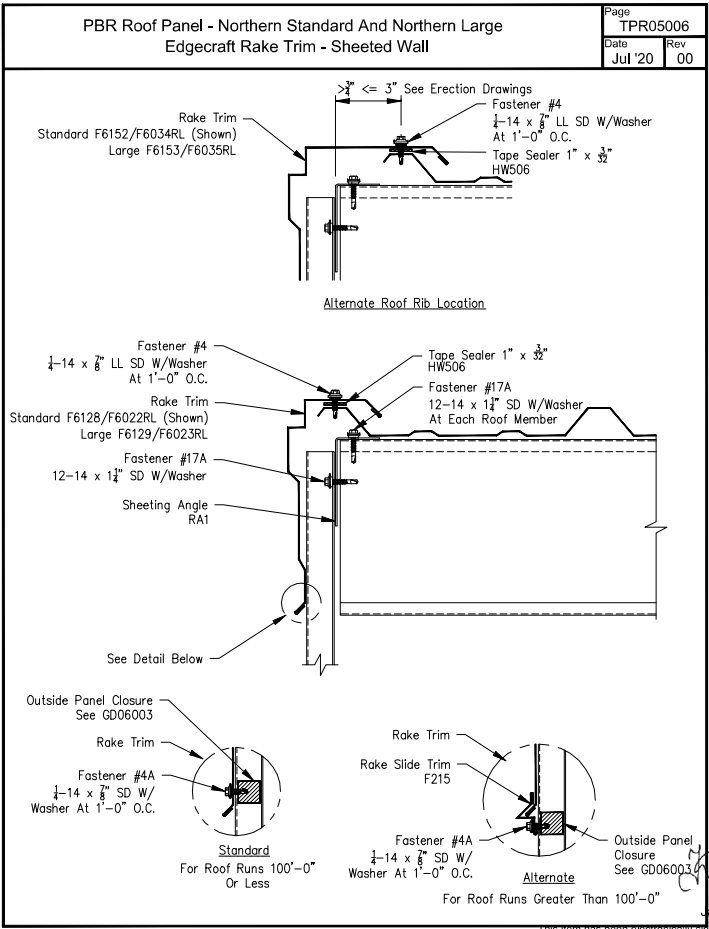
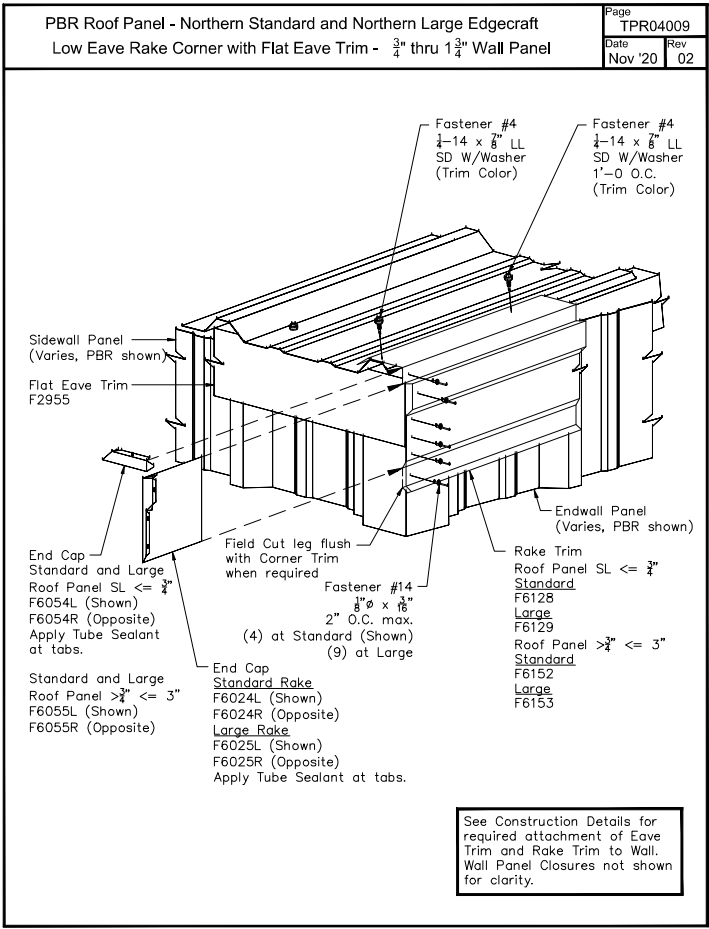
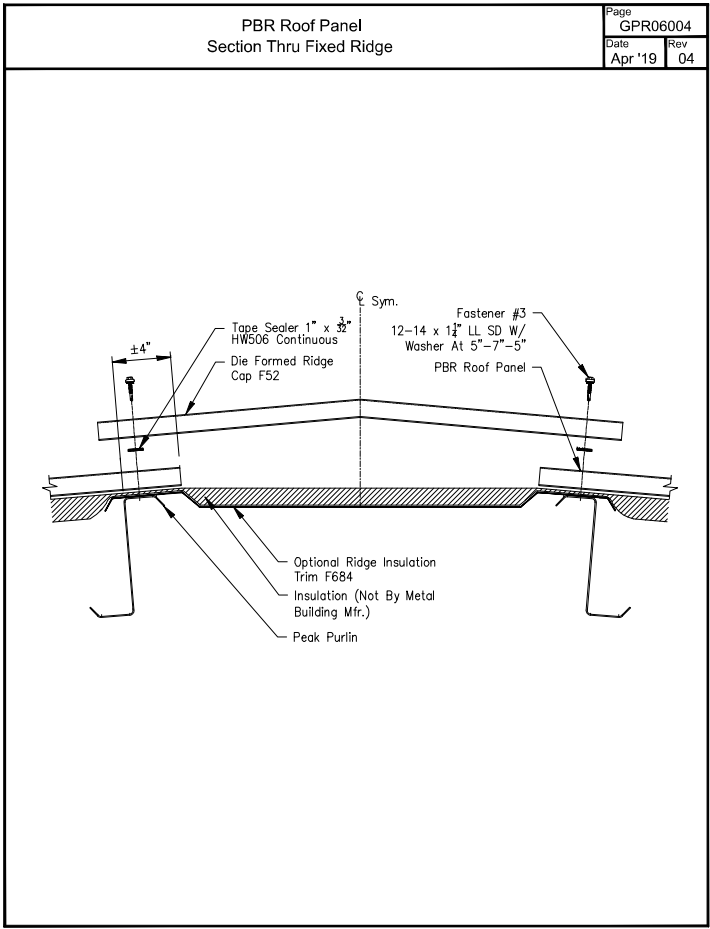
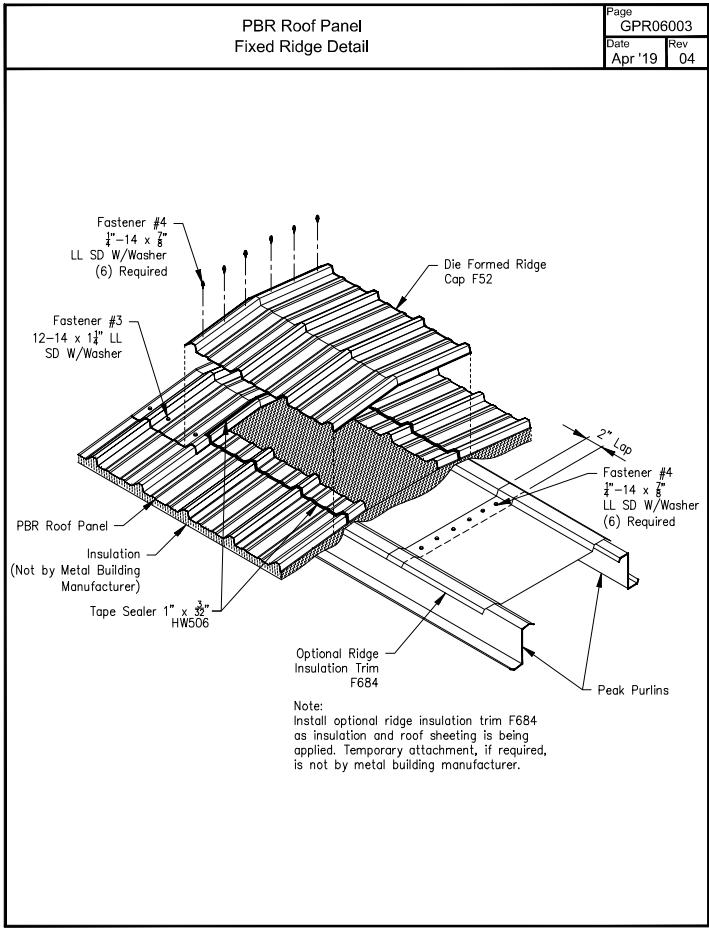
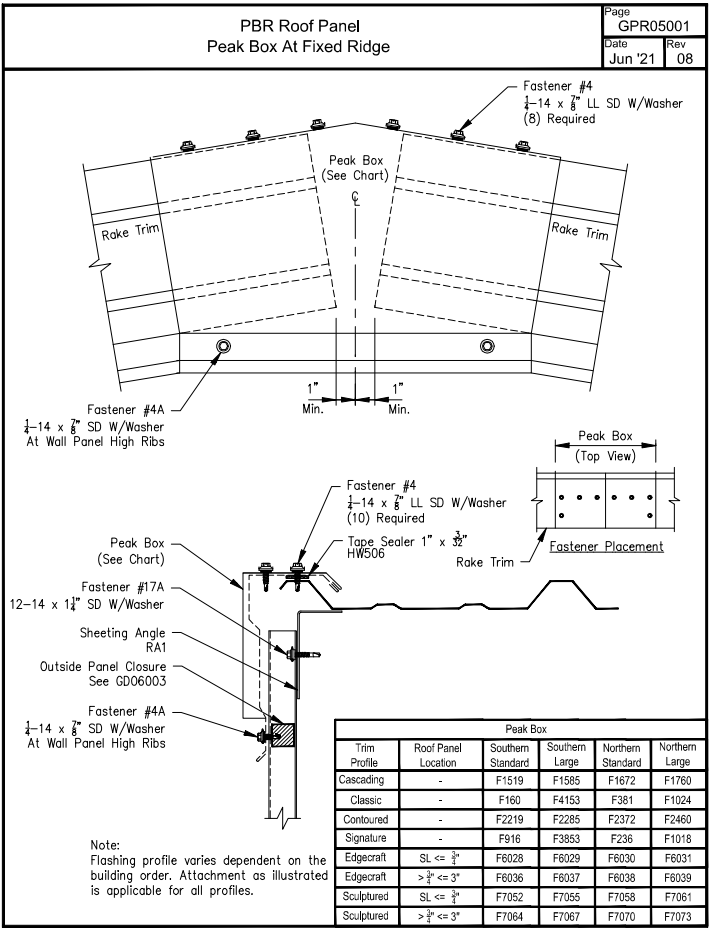
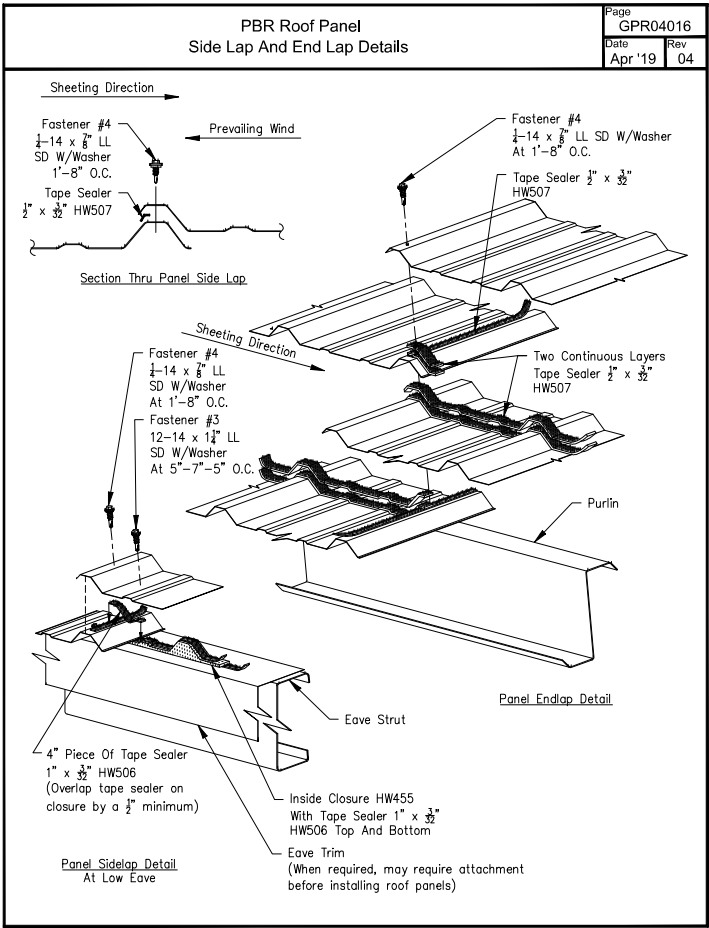
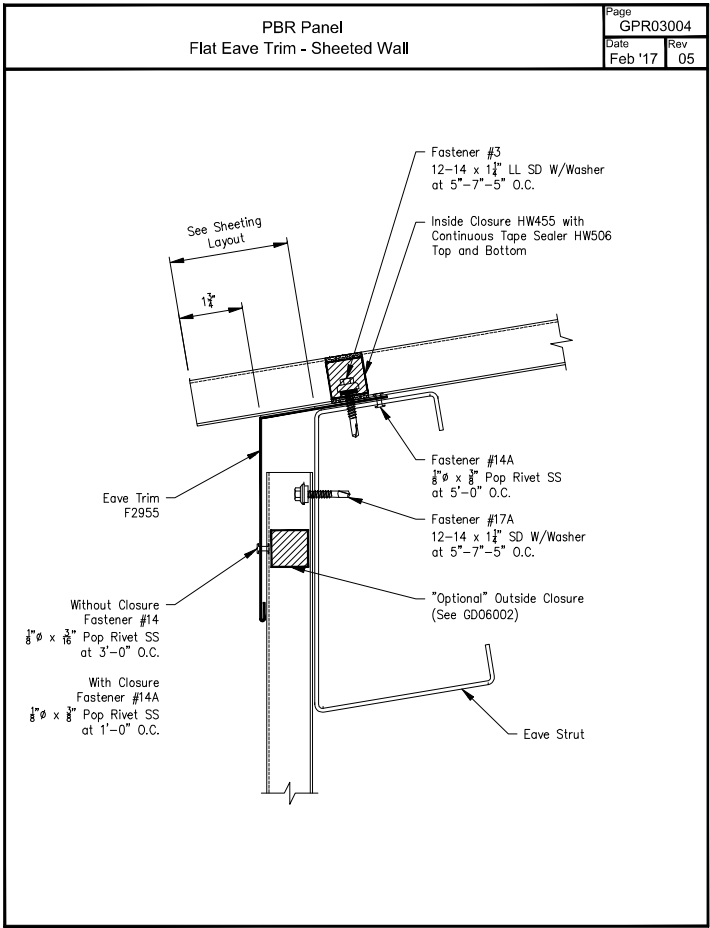
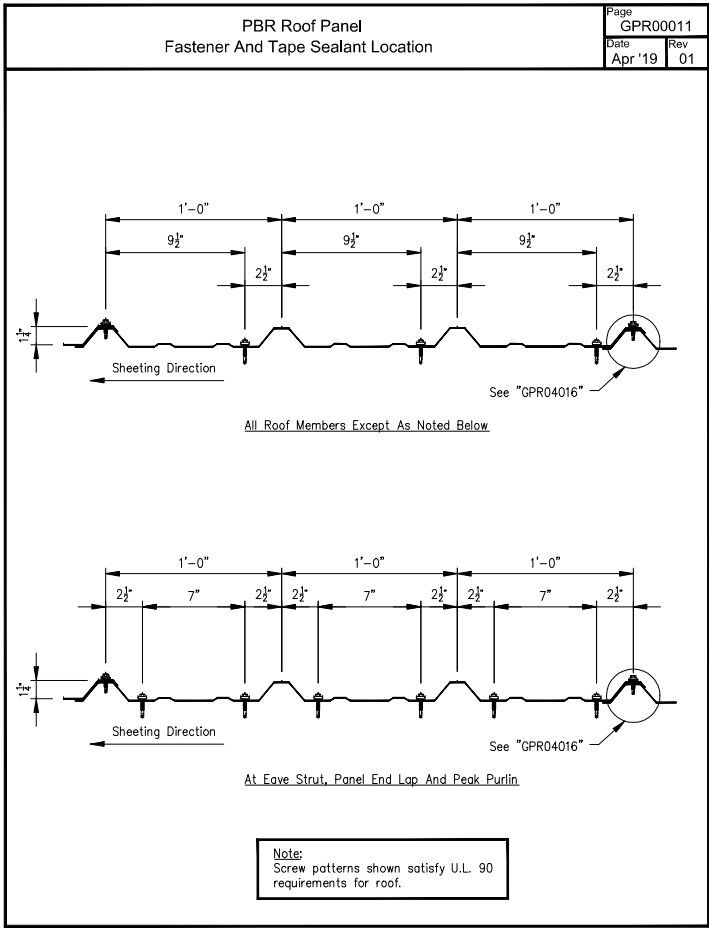


Note:
Fasteners Attaching To
Column Webs May Require
Pre Drilling

[illegible]

 <p>MUELLER METAL BUILDINGS, ROOFING & SIDING</p>	<p>FORTIFY BUILDING SOLUTIONS[®]</p>	<p>Cornerstone Building Brands 13015 Northwest Freeway, Suite 500 Houston, TX 77040 cornerstonebuildingbrands.com</p>
<p><i>Customer:</i></p> <p>CITY OF OGDEN-212366 2549 WASHINGTON BLVD OGDEN UT 84401 MARA BROWN</p>	<p><i>Project Name & Location:</i></p> <p>MARA BROWN 1300 VALLEY DR OGDEN UT 84401-0808</p>	<p><i>Drawing Status:</i></p> <p><input type="checkbox"/> Issued For Approval (Not For Construction)</p> <p><input type="checkbox"/> Issued For Permit</p>
		<p><input checked="" type="checkbox"/> Issued For Construction</p>

Scale:	NOT TO SCALE
Drawn by:	AXD 12/9/25
Checked by:	MC 12/15/25
Project Engineer:	
Job Number:	20-B-91454
Sheet Number:	R8 of 12
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<p>KAUSHIKKUMAR J. PATEL, P.E. UTAH P.E. 12582792-2202</p>	



Check By: _____ Date: _____ Revision: _____

Description: _____

Date: _____

Revision: _____

Project Name & Location: Cornerstone Building Brands 13105 Northwest Freeway, Suite 500 Houston, TX 77040 cornerstonebuildingbrands.com

Customer: CITY OF OGDEN-212366 2549 WASHINGTON BLVD OGDEN UT 84401 MABA BROWN

Drawing Status: ☒ Issued For Approval (Not For Construction) ☐ Issued For Permit

Scale: NOT TO SCALE

Drawn by: AXD 12/9/25

Checked by: MC 12/15/25

Project Engineer: _____

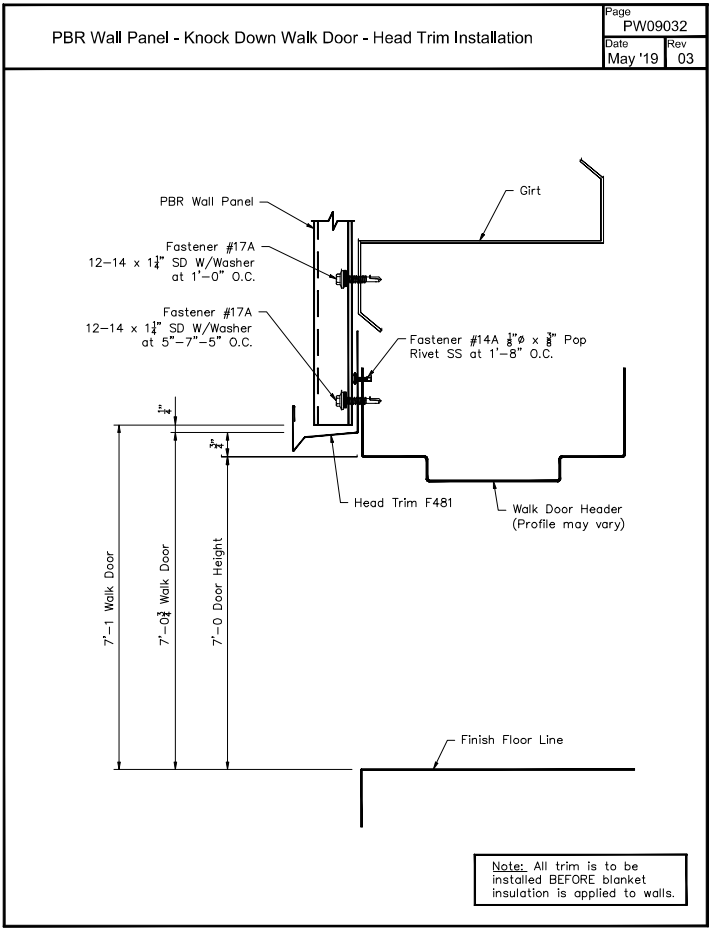
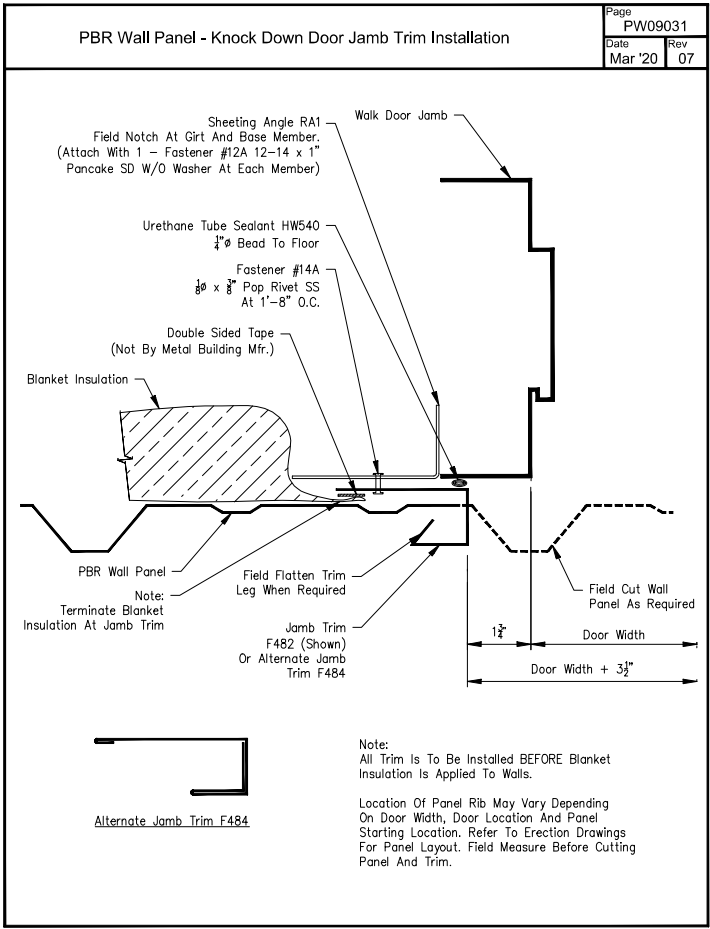
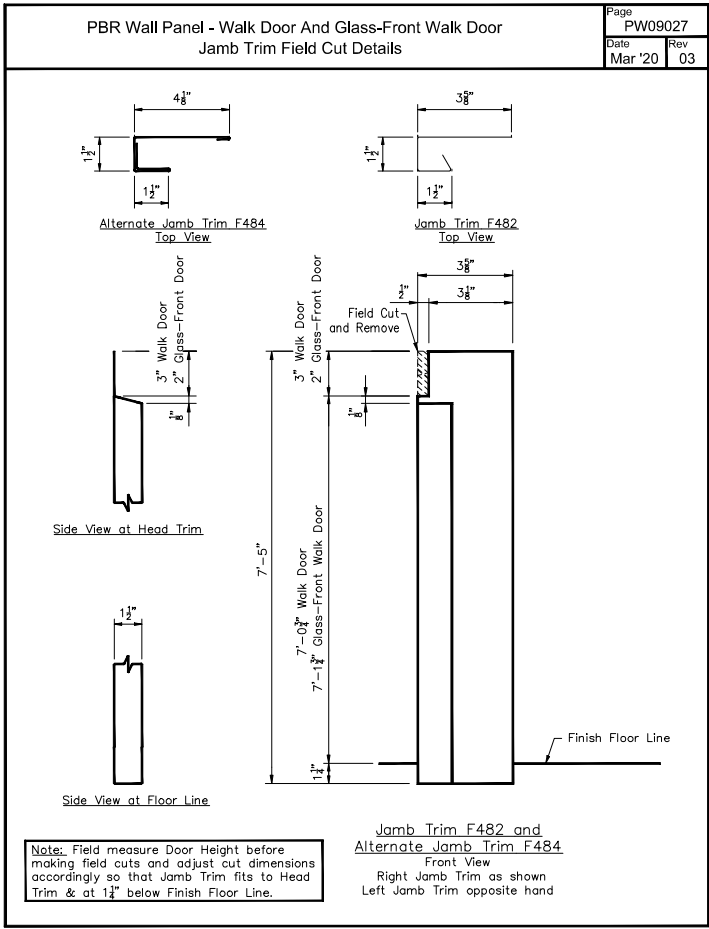
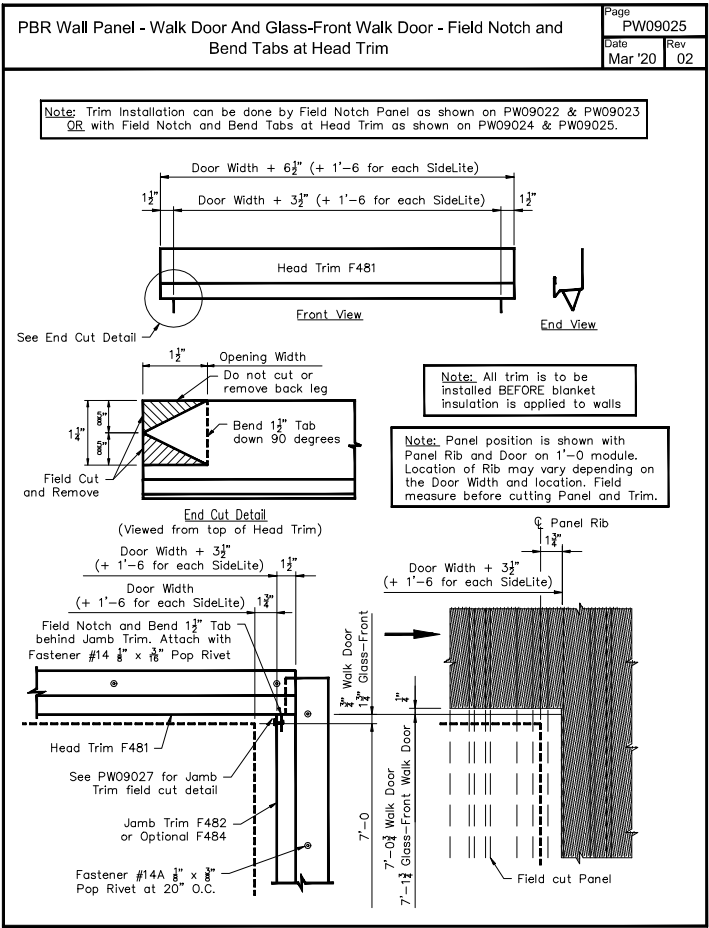
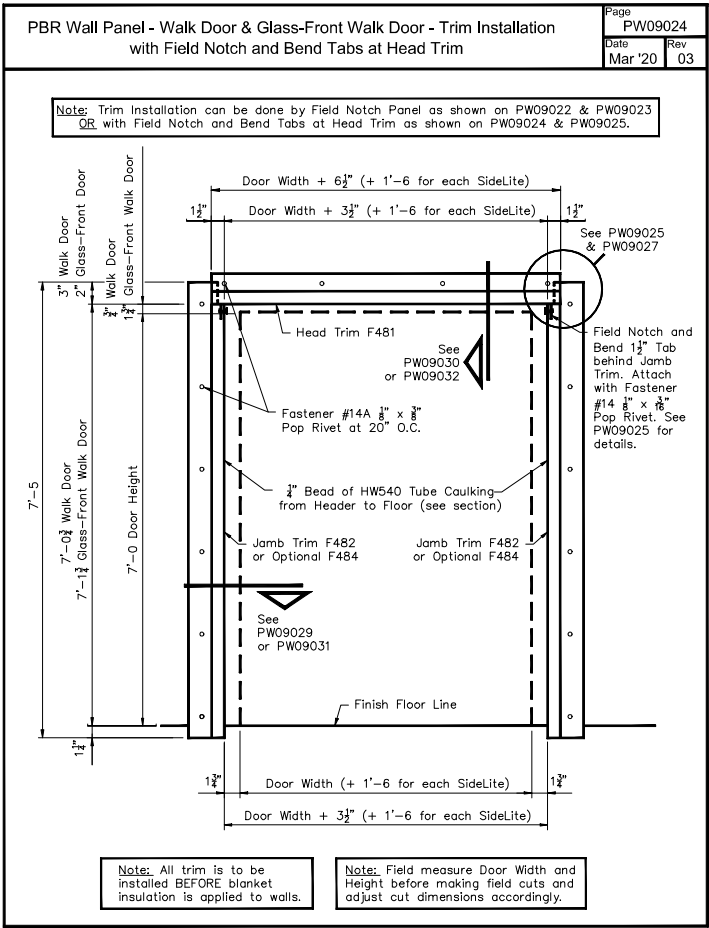
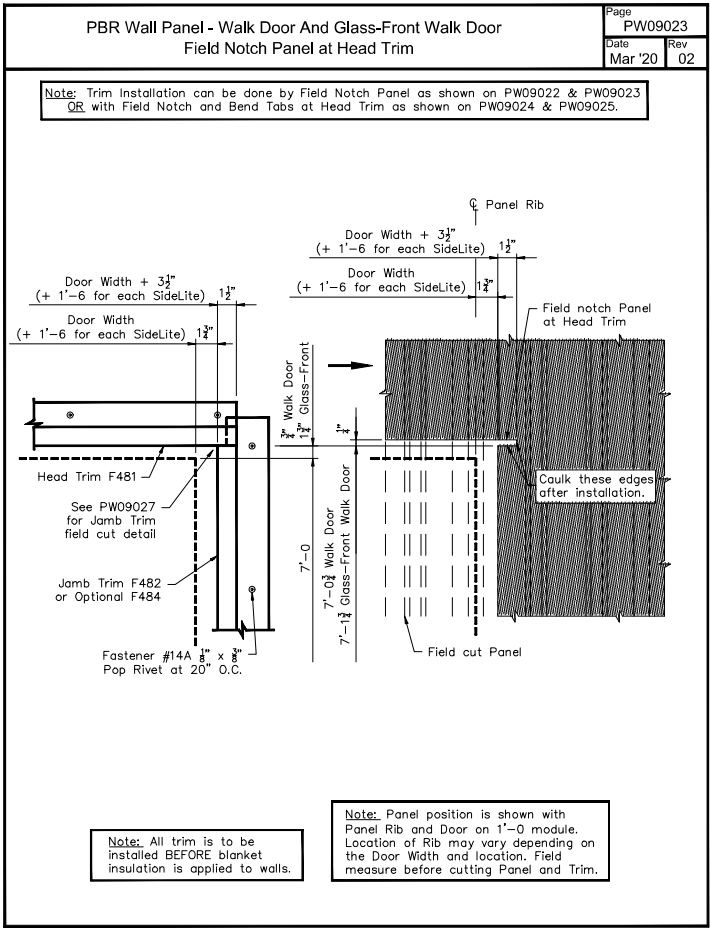
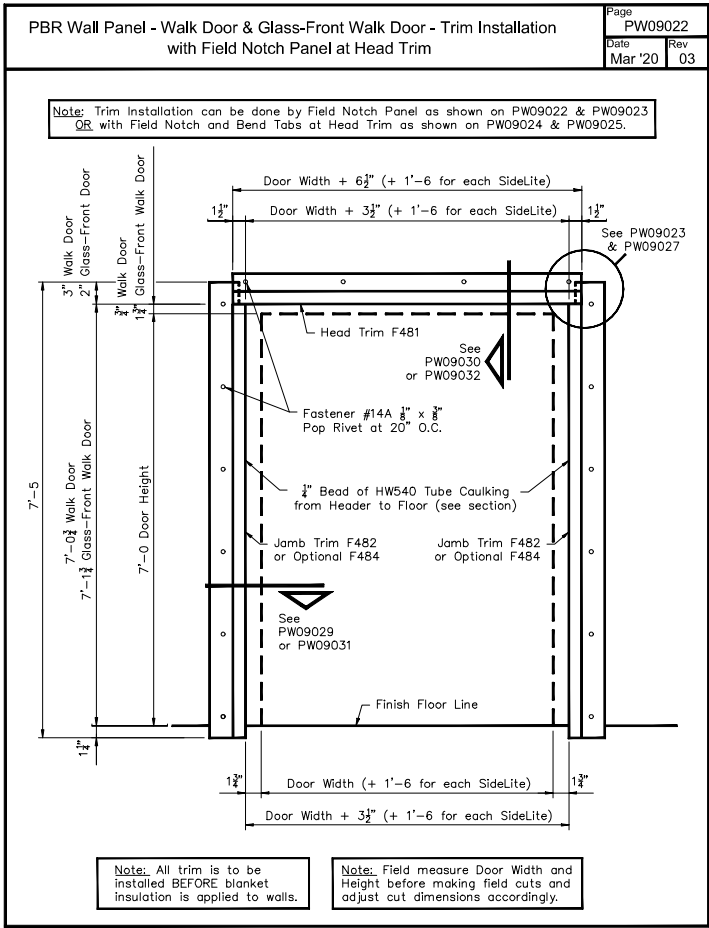
Job Number: 20-B-91454

Sheet Number: R10 of 12

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KAUSHIKKUMAR J. PATEL, P.E. UTAH P.E. 12592792-2202

Professional Engineer Seal: KAUSHIKKUMAR J. PATEL, No. 12592792, STATE OF UTAH



PBR Roof Panel - Perimeter Trim Reference Edgcraft Northern Standard Trim

Page TPR00003
Date Sep '20 Rev 01

	Gutter	Gutter Lap	Gutter End Cap	Expansion Cap/Cover	Gutter Support
	F6122/F6002RL	2" Lap	F6014	F6010/F6006	F550
	Fastener #4 1/4-14 x 8" LL SD W/Washer 1'-0" O.C. Roof Color	52" Tube Sealant (11) Fastener #14 Trim Color	27" Tube Sealant (11) Fastener #14 Trim Color	(7) Fastener #14 Trim Color	(2) Fastener #4 1/4-14 x 8" LL SD W/Washer Roof Color (1) Fastener #4 1/4-14 x 8" LL SD W/Washer Trim Color
thru 1 1/2"					
	Rake SL <= 3"	Rake Lap SL <= 3"	Rake >3" <= 3"	Rake Lap >3" <= 3"	Rake Cap SL <= 3"
	F6128/F6022RL	2" Lap	F6152/F6034RL	2" Lap	F6054RL/F6024RL
	Fastener #4 1/4-14 x 8" LL SD W/Washer 1'-0" O.C. Fastener #4A 1/4-14 x 8" SD W/Washer 1'-0" O.C. Trim Color	15" Tube Sealant (6) Fastener #14 (2) Fastener #4 1/4-14 x 8" LL SD W/Washer Trim Color	Fastener #4 1/4-14 x 8" LL SD W/Washer 1'-0" O.C. Fastener #4A 1/4-14 x 8" SD W/Washer 1'-0" O.C. Trim Color	18" Tube Sealant (6) Fastener #14 (2) Fastener #4 1/4-14 x 8" LL SD W/Washer Trim Color	24" Tube Sealant (4) Fastener #14 (2) Fastener #4 1/4-14 x 8" LL SD W/Washer Trim Color
thru 1 1/2" thru 1 1/2"					
	High Side	High Side Lap	Outside Corner	Inside Corner	Rake Cap >3" <= 3"
	F6140/F6082RL	2" Lap	Right as Shown	Field Work	F6055RL/F6024RL
	Fastener #4 1/4-14 x 8" LL SD W/Washer (6) Fastener #14 (2) Fastener #4 1/4-14 x 8" SD W/Washer 1'-0" O.C. Trim Color	23" Tube Sealant (9) Fastener #14 (3) Fastener #4 1/4-14 x 8" LL SD W/Washer 1'-0" O.C. Trim Color	34" Tube Sealant (8) Fastener #14 (6) Fastener #4 1/4-14 x 8" LL SD W/Washer Trim Color	34" Tube Sealant (4) Fastener #14 (3) Fastener #4 1/4-14 x 8" LL SD W/Washer At 3" O.C. Trim Color	30" Tube Sealant (4) Fastener #14 (2) Fastener #14 (3) Fastener #4A 1/4-14 x 8" SD W/Washer Trim Color
thru 1 1/2" thru 1 1/2"					
	Outside Corner	Inside Corner	Outside Corner	Inside Corner	Peak Box
	Right as shown	Field Work	Field Work	Field Work	F6030 SL <= 3" F6038 >3" <= 3"
	31" Tube Sealant (18) Fastener #14 (6) Fastener #4 1/4-14 x 8" LL SD W/Washer Trim Color	31" Tube Sealant (12) Fastener #14 (2) Fastener #4 1/4-14 x 8" LL SD W/Washer Trim Color	74" Tube Sealant (12) Fastener #14 Trim Color	74" Tube Sealant (12) Fastener #14 Trim Color	(12) Fastener #4 1/4-14 x 8" LL SD W/Washer (3) Fastener #4A 1/4-14 x 8" SD W/Washer Trim Color

Scale: NOT TO SCALE

Drawn by: AXD 12/9/25

Checked by: MC 12/15/25

Project Engineer:

Job Number: 20-B-91454

Sheet Number: R11 of 12

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KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202


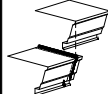













Customer: CITY OF OGDEN-212366
2549 WASHINGTON BLVD
OGDEN UT 84401
MARA BROWN





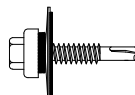
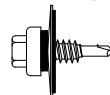
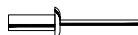


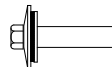
Project Name & Location: 13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

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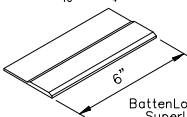



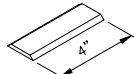
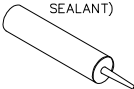
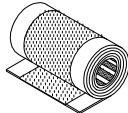
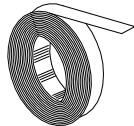
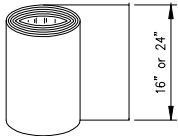
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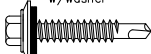
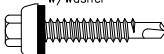


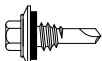
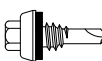
Professional Engineer
No. 12592792
KAUSHIKKUMAR J. PATEL
STATE OF UTAH

PBR Roof Perimeter Trim Reference				Page TPR000001	
Trim Fastener and Sealants				Date May '22	
				Rev 01	
					
EAVE BOX	EAVE BOX LAP	Eave Box End Cap	Closure Vented Ridge	Metal Closure	
F6075	2" LAP	F6076RL	HW4040	HW4041	
Fastener #14A 5"-0" O.C. Fastener #4A 1-14 x 8" SD W/Washer 1"-0" O.C. Trim Color	(6) Fastener #14 2"-0" Tube Sealant	(8) Fastener #14 1"-9" Tube Sealant	(3) Fastener #3 12-14 x 12" LL SD W/Washer (2) Fastener #4 1-14 x 8" LL SD W/Washer Roof Color 2"-4" Tape Mastic	(3) Fastener #3 12-14 x 12" LL SD W/Washer (2) Fastener #4 1-14 x 8" LL SD W/Washer Roof Color 2"-4" Tape Mastic	
					
Expansion Ridge Trim	Ridge Closure	Flat Eave Trim	Inside Closure	Outside Closure	
F675	F679	F2955	HW455	HW456	
Fastener #4 1-14 x 8" LL SD W/Washer 2 runs @ 6" O.C. (16) Fastener #4 1-14 x 8" LL SD W/Washer per lap Trim Color 5"-8" Tube Sealant	2"-4" Tube Caulking (12) Fastener #4 8-14 x 8" LL SD W/Washer Trim Color	9" Tube Sealant (2) #14 per lap #14 3"-0" O.C. w/out closure #14A 1"-0" O.C. w/closure Trim Color			
					
Parapet Rake Trim	Rake Slide Trim	Ridge Cap	Parapet High Side	Sheeting Angle Longitudinal Ridge	
F852	F215	F52	F326	SAR5	
2"-3" Tube Sealant (3) Fastener #4 1-14 x 8" LL SD W/Washer Trim Color	Fastener #4A 1-14 x 8" SD W/Washer 1"-0" O.C. Trim Color	10"-1" Tape Mastic (12) Fastener #3 12-14 x 12" LL SD W/Washer (6) Fastener #4 1-14 x 8" LL SD W/Washer Panel Color	2"-8" Tube Sealant (2) Fastener #14 & (5) Fastener #4 1-14 x 8" LL SD W/Washer per Lap Fastener #4 1-14 x 8" LL SD W/Washer 1"-0" O.C. Trim Color	20"-0" Long	

Fasteners			Page G000004
			Date Jul '17
			Rev 05
<u>Fastener #14</u>  1/8" x 3/16" Pop Rivet Stainless Steel	<u>Fastener #14A</u>  1/8" x 3/8" Pop Rivet Stainless Steel	<u>Fastener #24</u>  8 x 5/8" Nibbed Driller	
<u>Fastener #35</u>  #14 x 1 1/8" O.D. Bonded Washer	<u>Fastener #43L</u>  L.T.P. Member Screw (Long Life) 1/4"-14 x 1 1/4" 5/16" Hex Washer Head W/ 1 1/8" O.D. Washer	<u>Fastener #44L</u>  L.T.P. Stitch Screw (Long Life) 1/4"-14 x 7/8" 5/16" Hex Washer Head W/ 1 1/8" O.D. Washer	
<u>Fastener #226</u>  3/16" x 9/16" Closed End Rivet	<u>Fastener #228</u>  10 x 1/2" Grommet Washer	<u>Fastener #271</u>  8-18 x 1/2" Trim Screw	
<u>Fastener HW399</u>  #6 x 1" Rubber Grommet 1/4" Hex Head w/ Washer			

Note:
Refer to bill of materials for specific job requirements.

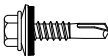





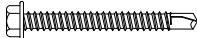
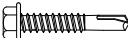
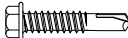


<p style="text-align: center;">Tape Sealer And Tube Sealant</p>		<p>Page G0000005</p> <p>Date Feb '24 Rev 07</p>
<p>TRI-BEAD TAPE SEALER</p>  <p>$\frac{3}{16}" \times \frac{7}{8}" \times 25'-0"$</p>	<p>FLAT TAPE SEALER</p> <p>HW507</p>  <p>$\frac{3}{32}" \times \frac{1}{2}" \times 50'-0"$</p>	<p>TAPE SEALER — SWAGED</p> <p>HW515</p> <p>$\frac{3}{16}" \times \frac{3}{4}" \times 6"$</p>  <p>BattenLok HS SuperLok</p>
<p>TRIPLE BEAD TAPE SEALER</p> <p>HW502</p>  <p>$\frac{3}{16}" \times 2\frac{1}{4}" \times 20'-0"$</p>	<p>FLAT TAPE SEALER</p> <p>HW506</p>  <p>$\frac{3}{32}" \times 1" \times 45'-0"$</p>	
<p>URETHANE TUBE SEALANT</p>  <p>HW540 (White) HW541 (Gray) HW542 (Bronze)</p> <p>Note: 25'-0" per Tube at 1/4" Bead</p>	<p>TAPE SEALER</p> <p>MINOR RIB</p> <p>HW512</p>  <p>$\frac{7}{32}" \times 1\frac{3}{8}" \times 4"$</p>	<p>NON-SKINNING BUTYL TUBE (VAPOR SEALANT)</p>  <p>IMP7100 (WHITE) 12'-6" per Tube at 3/8" Bead HW549 (WHITE) 25'-0" per Tube at 1/4" Bead</p>
 <p>DEKSTRIP 7" WIDE = HW5227 DEKSTRIP 9" WIDE = HW5228 DEKSTRIP 12" WIDE = HW5229 DEKSTRIP 18" WIDE = HW5226</p> <p>COLOR = Gray SCREWS 2" O.C. MAX. PERIMETER TAPE SEALER BOTH SIDES URETHANE TUBE SEALANT HW540 EACH END TERMINATION STRIP HW5305 EACH END (1" Wide x 4'-0" Long Alum.)</p>	<p>2" WIDE X 24 GA. STRAPPING</p>  <ul style="list-style-type: none"> • FL471 — 100'-0" Roll Galvalume Plus Only • FL569 — 500'-0" Roll Galvalume Plus or White Wash Coat 	<p>FLEXIBLE MEMBRANE (EPDM)</p>  <p>16" or 24"</p> <ul style="list-style-type: none"> • HW520 — 16" x 50'-0" Roll • HW521 — 24" x 50'-0" Roll
		<p>NOTE: Refer to bill of materials for specific job requirements</p>

PBR, PBU, AVP, RBR And RBV		Page G0000006 Date Jun '23 Rev 10	
<u>Wall Fasteners</u> <u>Member Screw</u> Fastener #17A 12-14 x 1 1/4" 5/16" Hex Washer Head w/washer 		<u>Roof Fasteners</u> Long Life (Optional at Wall) <u>Member Screw</u> Fastener #3 12-14 x 1 1/4" 5/16" Hex Washer Head w/washer 	
<u>Member Screw</u> Optional Fastener #17B 12-14 x 1 1/4" 5/16" Hex Washer Head w/washer 		<u>Member Screw</u> Optional Fastener #3A 12-14 x 1 1/4" 5/16" Hex Washer Head w/washer 	
<u>Member Screw</u> Optional Fastener #28 12-14 x 2" 5/16" Hex Washer Head w/washer 		<u>Member Screw</u> Optional Fastener #58 12-14 x 2" 5/16" Hex Washer Head w/washer 	
<u>Stitch Screw</u> Fastener #4A 1-14 x 7/8" 5/16" Hex Washer Head w/washer 		<u>Stitch Screw</u> Fastener #4 1-14 x 7/8" 5/16" Hex Washer Head w/washer 	
NOTE: Refer to bill of materials for specific job requirements			

[illegible]

<p>Cornerstone Building Brands Northwest Freeway, Suite 500 Houston, TX 77040 cornerstonebuildingbrands.com</p>	<p>Name & Location: DAWN LLEY DR # 84401-0808</p>	<p><input checked="" type="checkbox"/> <u>Issued For Construction</u></p>
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13105 | Project W
ARA BR
000 VALL
GGDEN UT

Various Fasteners		Page G000009
		Date Nov '16
		Rev 11
<p>Fastener #17 12-14 x 1" SD W/Washer $\frac{5}{16}$" Hex Head</p> 	<p>Fastener #38 $\frac{1}{2}$-14 x $\frac{5}{8}$" SD W/O Washer $\frac{5}{16}$" Hex Head</p> 	
	<p>Fastener #12A 12-14 x 1" Pancake SD W/O Washer</p> 	
<p>Fastener #55 12-24 x $1\frac{1}{4}$" SD DP5 W/O Washer $\frac{5}{16}$" Hex Head</p> 	<p>Fastener #70 12-24 x $1\frac{1}{4}$" SD DP5 W/O Washer $\frac{5}{16}$" Hex Head</p> 	<p>Fastener #142 $\frac{1}{2}$-14 x $1\frac{1}{2}$" SD W/O Washer $\frac{5}{16}$" Hex Head</p> 
<p>Fastener #76 12-14 x 2" SD W/O Washer $\frac{5}{16}$" Hex Head</p> 	<p>Fastener #61 12-14 x $1\frac{1}{4}$" SD W/O Washer $\frac{5}{16}$" Hex Head</p> 	<p>Fastener #1B $\frac{1}{2}$-14 x $1\frac{1}{2}$" SD W/O Washer $\frac{5}{16}$" Hex Head</p> 
<p>Fastener #16 12-24 x $1\frac{1}{4}$" Pancake SD DP5 W/O Washer</p> 	<p>NOTE: Refer to Bill of Materials for Specific job Requirements</p>	<p>Fastener #46 $\frac{1}{2}$-14 x $\frac{3}{4}$" LL ST Type B W/Washer $\frac{5}{16}$" Hex Head</p> 

PBR Roof Panel

Edgecraft Rake Trim End Lap Installation Detail - $\frac{3}{4}$ " thru $1\frac{3}{4}$ " Wall Panel

Page
TPR05010
 Date
Sep '20
 Rev
01

Fastener #4
 $\frac{1}{4}$ -14 x $\frac{3}{8}$ LL SD W/Washer
 At Lap All Profiles (Trim Color)

Fastener #4
 $\frac{1}{4}$ -14 x $\frac{3}{8}$ LL SD W/Washer
 At 3" O.C. (Trim Color, For Placement See Details Below)

Fastener #14
 $\frac{3}{8}$ x $\frac{11}{16}$ Pop Rivet SS At 2" O.C. (For Placement, See Details Below)

Urethane Tube Sealant
 HW540 $\frac{1}{4}$ " Bead To Lap Over Tape Sealer

Backside View Of Lap

Fastener #4 At Lap
 (2) F6126/F6020RL
 (3) F6150/F6032RL

Fastener #4 At Lap
 (2) F6127/F6021RL
 (3) F6151/F6033RL

Fastener #4 At Lap
 (1) F6128/F6022RL
 (2) F6152/F6034RL

Fastener #4 At Lap
 (1) F6129/F6023RL
 (2) F6153/F6035RL

Fastener #14 (4) Required At Lap

Fastener #14 (5) Required At Lap

Fastener #14 (6) Required At Lap

Fastener #14 (6) Required At Lap

Southern Standard
 F6126/F6020RL or
 F6150/F6032RL (Shown)

Southern Large
 F6127/F6021RL or
 F6151/F6033RL (Shown)

Northern Standard
 F6128/F6022RL or
 F6152/F6034RL (Shown)

Northern Large
 F6129/F6023RL or
 F6153/F6035RL (Shown)

 <p>MUELLER METAL BUILDINGS, ROOFING & MORE</p>	<p>FORTIFY BUILDING SOLUTIONS™</p>	<p>Project #</p>	<p>13/03/2013</p>	<p>00000000</p>
<p><i>Customer:</i></p> <p>CITY OF OGDEN-212366 2549 WASHINGTON BLVD OGDEN UT 84401 MARLA BROWN</p>				
				<p><i>Drawing Status:</i> <input type="checkbox"/> Issued For Approval (Not For Construction)</p> <p><input type="checkbox"/> Issued For Permit</p>

Scale: NOT TO SCALE

Drawn by: AXD 12/9/25

Checked by: MC 12/15/25

Project Engineer: _____

Job Number: 20-B-91454

Sheet Number: R12 of 12

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, for the materials described herein. Said seal or certification is limited to the product designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

KAUSHIKKUMAR J. PATEL, P.E.
UTAH P.E. 12592792-2202

Kaushik Patel
Jan 02, 2026
ally signed and sealed by
on the date and/or time
signature. Printed copies of
were signed and sealed
ified by a 3rd Party
electronic copy.

PROFESSIONAL ENGINEER
No. 12592792
KAUSHIKKUMAR J.
PATEL
STATE OF UTAH

This item has been electronically signed and sealed by Kaushikkumar J. Patel, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.



December 03, 2025

CITY OF OGDEN-212366
2549 WASHINGTON BLVD
Ogden, UT 84401

20-B-91454
MARA BROWN
1300 VALLEY DR OGDEN, UT 84401-0808
40'0" x 80'0" x 16'0"

To Whom It May Concern:

This is to certify that materials for the subject structure have been designed in accordance with the order documents, specifically as shown per the attached Engineering Design Criteria Sheet.

Aspects of code compliance as related to use or occupancy, such as sprinkler requirements, are not addressed by these documents.

These materials, when properly erected on an adequate foundation in accordance with the erection drawings as supplied and using the components as furnished, will meet the attached loading requirements.

This certification does not cover field modifications, or the design of materials not furnished by Heritage Building Systems.

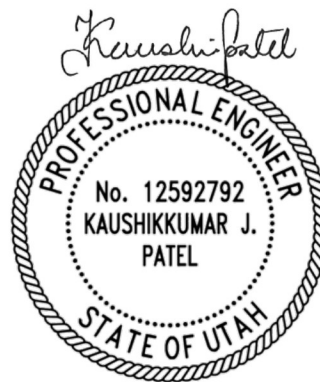
The attached design criteria and calculations are to remain with and form part of this Letter of Certification.

The calculations and the metal building they represent are the product of Heritage Building Systems or a division of its affiliate Cornerstone Building Brands. The engineer whose seal appears hereon is employed by either Heritage Building Systems or a division of its affiliate Cornerstone Building Brands and is not the engineer of record for this project.

Cordially,

Heritage Building Systems
Materials for Metal Buildings
A Cornerstone Building Brands Company

Kaushikkumar J. Patel, P.E.
Design Engineer



12/08/2025

This document has been
digitally signed.



DESIGN PACKAGE

BUILDER: CITY OF OGDEN-212366

CUSTOMER: MARA BROWN

JOB NUMBER: 20-B-91454

TABLE OF CONTENTS

	Page
Design Criteria	1
Drawing Notes	2-3
Deflection Criteria	4
Building A	5-16

Note to Detailing: Eds2Tekla Report (Y)

Original Design Completed thru Change Order # 0

Date: 12/03/2025

Revision History

Rev#	Update Reactions?	Reason for Revision	Pages Revised	Date Revised	Eng.

Design Engineer: Rafael Arce Rabadan (Caryville)

Checking Engineer: Emmanuel Lopez Guillen

Sealing Engineer: Kaushikkumar J. Patel, P.E.

Job Number: 20-B-91454
Builder: CITY OF OGDEN-212366
Jobsite Location: MARA BROWN, OGDEN, UT

Building Code: 2021 IBC

Building Risk Category: Normal (Risk Category II)

Roof Dead Load

Superimposed: 2.22 psf
Collateral: 1.00 psf
(1.00 psf Other)

Roof Live Load: 20.00 psf reduction allowed

Snow

Ground Snow Load (Pg): 43.00 psf
Snow Importance Factor (I) ..: 1.00
Snow Exposure Factor (Ce) ...: 0.90
Thermal Factor (Ct): 1.00
Slope Factor (Cs): 1.00
Sloped Roof Snow (Ps): 27.09 psf
Minimum Roof Snow Load (Pm) : 30.00 psf

Wind

Ultimate Wind Speed (Vult) ..: 110 mph
Nominal Wind Speed (Vasd) ...: 85 mph (IBC section 1609.3.1)
Serviceability Wind Speed ...: 74 mph
Ground Elevation Factor: 0.85 (4458 ft ASL)
Wind Exposure Category: C
Exposure Coefficient (MWFRS): 0.860
Enclosure Classification: Enclosed Building
Internal Pressure Coef (GCpi): 0.18/-0.18
Unfactored Wall Loads for components not provided by building manufacturer
Zone 5 Areas (within 4.00' of corner) : 20.82 psf pressure -27.76 psf suction
Zone 4 Areas (away from corners) : 20.82 psf pressure -22.55 psf suction
These values are the maximum values required based on a 10 sq ft area.
Components with larger areas may have lower wind loads.

Seismic

Seismic Importance Factor (Ie): 1.00
Seismic Design Category: D
Soil Site Class: D Stiff Soil (Default)
Ss: 1.351 g Sds: 1.081 g
Sl: 0.498 g Sd1: 0.598 g
Analysis Procedure: Equivalent Lateral Force
Column Line 1-5 SWA & SWC
Basic Force Resisting System C4 B3
Response Modification Coefficient (R) 3.50 3.25
Seismic Response Coefficient (Cs) 0.309 0.333
Design Base Shear in kips (V) 6.32 6.26
Basic Structural System (from ASCE 7-16 Table 12.2-1)
B3 - Ordinary Steel Centrically Braced Frame
C4 - Ordinary Steel Moment Frame

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, or ASTM A1011 with 55 ksi min. yield, except flanges wider than 12" and thicker than 3/8", all flanges thicker than 1", and all webs thicker than 3/8" are 50 ksi min. yield. Rod X-bracing conforms to ASTM A529 or ASTM A572 with 50 ksi min. yield. Cable X-bracing conforms to ASTM A475 7 Strand Extra High-Strength grade. Hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with 50 ksi min. yield. Hot rolled angles, other than flange braces, conform to ASTM A36 minimum. Round and rectangular HSS conforms to ASTM A500 Grade B. Cold-formed steel secondary framing Members conform to ASTM A1011 or ASTM A653 Grade 55 with 55 ksi min. yield. For Canada, material properties conform to CAN/CSA G40.20/G40.21 or equivalent.

Unless otherwise noted, special inspection of fabricated items is not required. Per IBC section 1704.2.5.1, fabricator is approved to perform such work without special inspection through maintenance of IAS AC 472 certification MB-136.

Bolted joints with A325 Type 1 bolts greater than 1/2" diameter are specified as pre-tensioned joints in accordance with the most recent edition of the RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts. Pre Tensioning can be accomplished by using the turn-of-nut method of tightening, calibrated wrench, twist-off-type tension-control bolts or direct-tension indicator as acceptable to the Inspecting Agency and Building Official. Installation inspection requirements for pre-tensioned joints (Specification for Structural Joints Section 9.2) using turn-of-nut method is suggested. The connections on this project are not slip critical.

Design criteria as noted is as given within order documents and is applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the metal building manufacturer nor the certifying engineer declares or attests that the loads as designated are proper for local provisions that may apply or for site specific parameters. The design criteria is supplied by the builder, project owner, or an Architect and/or Engineer of Record for the overall construction project.

This project is designed using manufacturer's standard serviceability criteria. Generally this means that all deflections are within typical performance limits for normal occupancy and standard metal building products.

The metal building manufacturer has not designed the structure for snow accumulation loads at the ground level which may impose snow loads on the wall framing provided by the manufacturer.

This metal building system is designed as an Enclosed Building. Exterior and/or operable components including, but not limited to, doors, windows, vents, etc. ("Components") must be designed to withstand the required component and cladding wind pressures specified by the building code. In order to maintain the metal building system's Enclosed Building condition, all Components shall be closed when wind velocities reach half the designed wind load for the metal building system as shown on the drawings and design criteria documentation. Failure to maintain the metal building system's Enclosed Building condition will violate and void all warranties and certifications applicable to the material supplied by the metal building

manufacturer.

The use of fully exposed for the snow exposure results in the rigid frames being designed for only 90 percent of the roof snow load that is used for partially exposed. For a fully exposed snow exposure to be used, all of the following conditions must be true:

1. The roof is exposed to wind on all sides with no obstructions higher than the roof located closer to the building than a distance equal to 10 times the height of the obstruction above the roof.
2. The roof is exposed to wind on all sides with no significant obstructions on the roof such as parapet walls or large roof top mechanical units.
3. The roof is not exposed to accumulation of snow due to drifting or sliding from adjacent structures.

Framed openings, walk doors, and open areas shall be located in the bay and elevation as shown in the erection drawings. The cutting or removal of girts shown on the erection drawings due to the addition of framed openings, walk doors, or open areas not shown may void the design certifications supplied by the metal building manufacturer.

The framing at BLDG A Frame Line 1 and 5 is NOT designed to receive a future bay addition. Corresponding frame reactions are calculated based upon actual tributary area.

Job Number: 20-B-91454
 Builder: CITY OF OGDEN-212366
 Jobsite Location: MARA BROWN, OGDEN, UT

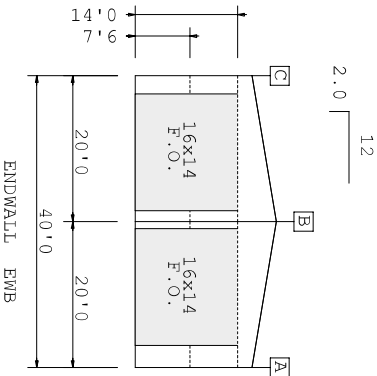
The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length.

BUILDING DEFLECTION LIMITS: BLDG-A

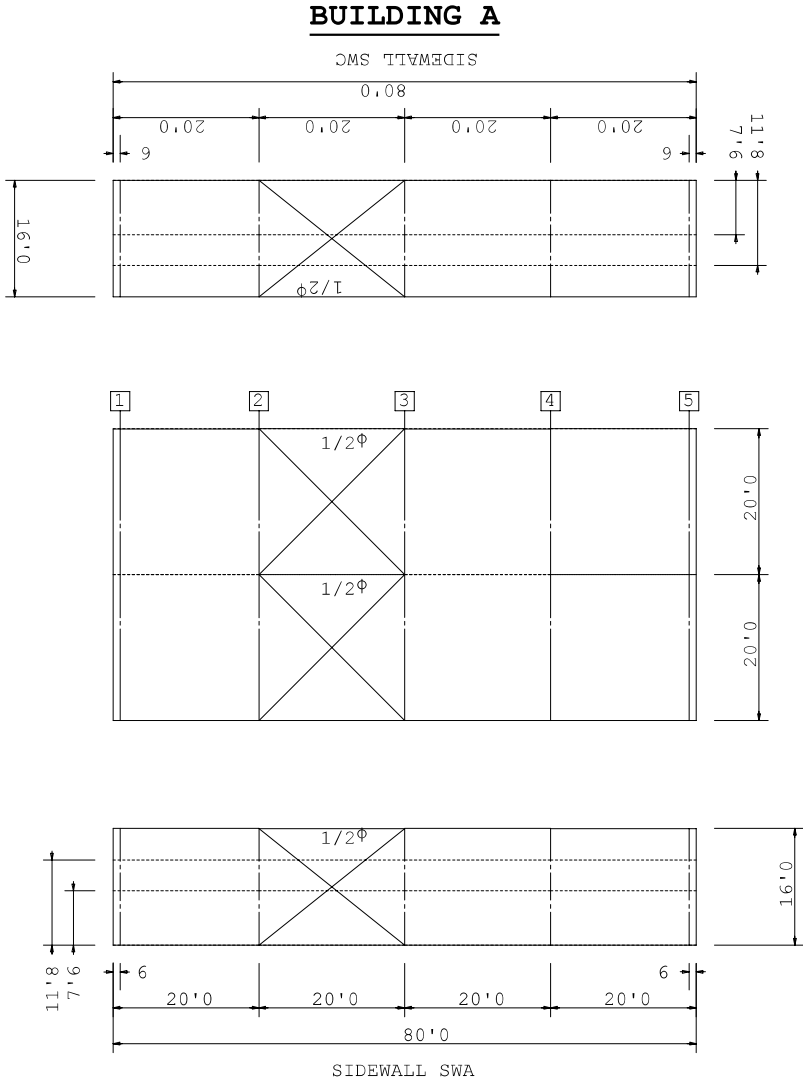
Roof Limits	Rafters	Purlins	Panels
-----	-----	-----	-----
Live: L/	180	150	60
Snow: L/	180	180	60
Serviceability Wind: L/	180	180	60
Total Gravity: L/	120	120	60
Total Uplift: L/	N/A	N/A	60
Frame Limits	Sidesway		
-----	-----		
Live: H/	60		
Snow: H/	60		
Serviceability Wind: H/	60		
Seismic Drift: H/	40		
Total Gravity: H/	60		
Service Seismic: H/	40		
Wall Limits	Limit		
-----	-----		
Total Wind Panels: L/	60		
Total Wind Girts: L/	90		
Total Wind EW Columns: L/	120		

The Service Seismic limit as shown here is at service level loads.

key Strut: x=double Z,
xx=triple Z,
o=pipe (FM)

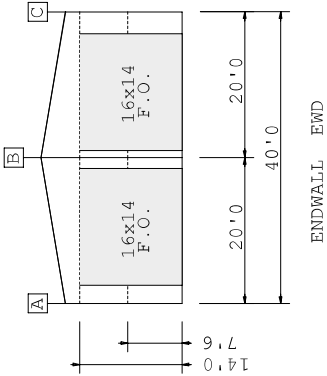


Owner :
MARA BROWN
OGDEN UT 84401-0808
P.O. HBS-PH-254812...



BUILDING A

Builder :
CITY OF OGDEN-212366
Job No: 91454A run01
Version: ver01-rafael.arce
Wed Dec 3 17:04:22 2025



Heritage

Design Summary Program

Design Summary Report

User: Rafael.arcer Job Number: 91454A

Version: 8.23.4 run01 Date: 12/03/25

Start Time: 17:04:08

R:\..\20-B-91454\ver01-rafael.arcerabadan\BLDG-A\run01\91454A_bldg_A_01.cds

BUILDING-A-DESIGN SUMMARY REPORT

All connections use ASTM F3125 Gr. A325N bolts, unless noted otherwise.

All anchor rods are checked according to ASTM F1554 Gr. 36 strengths.

Roof Plane ----- RPA

R:\jobs\Active\Eng\20-B-91454\ver01-rafael.arcerabadan\BLDG-A\run01\AroofRPA_01.edf

Panel PBR
Panel width 36 in.
Panel gage 26 ga.
Purlins 55.0 ksi yield strength
Eave struts 55.0 ksi yield strength

Horz. Purlin Spacing: 2@4.3989 2@5'0 1.2022

Bay #	Length (ft)	Member Size Identification	Brace Locations	L Lap Exten	R Lap Exten
1	20.000	8X2.5Z14	None	S 0.000	2.479 C
2	20.000	8X2.5Z14	None	C 2.479	1.479 C
3	20.000	8X2.5Z14	None	C 1.479	2.479 C
4	20.000	8X2.5Z14	None	C 2.479	0.000 S

Purlin Clip Use 2 A325 Bolts

@ Level: 2,3,4,5

@ Supports: 1,2,3,4,5

Purlin Stiffened Clips

@ Level: 2,5

@ Supports: 1,2,3,4,5

Purlin Backup Plate

@ Level: 2,5

@ Supports: 1,2,3,4,5

Heritage

Design Summary Program

Design Summary Report

User: Rafael.arcer Job Number: 91454A

Version: 8.23.4 run01 Date: 12/03/25

Start Time: 17:04:08

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Roof Plane ----- RPC

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Panel PBR
Panel width 36 in.
Panel gage 26 ga.
Purlins 55.0 ksi yield strength
Eave struts 55.0 ksi yield strength

Horz. Purlin Spacing: 2@4.3989 2@5'0 1.2022

Bay #	Length (ft)	Member Size Identification	Brace Locations	L Lap Exten	R Lap Exten
1	20.000	8X2.5Z14	None	S 0.000	2.479 C
2	20.000	8X2.5Z14	None	C 2.479	1.479 C
3	20.000	8X2.5Z14	None	C 1.479	2.479 C
4	20.000	8X2.5Z14	None	C 2.479	0.000 S

Purlin Clip Use 2 A325 Bolts

@ Level: 2,3,4,5

@ Supports: 5,4,3,2,1

Purlin Stiffened Clips

@ Level: 2,5

@ Supports: 5,4,3,2,1

Purlin Backup Plate

@ Level: 2,5

@ Supports: 5,4,3,2,1

SWC	Eave Strut	@	16.000 (ft):	8X3.5E14	Bays	1
SWC	Eave Strut	@	16.000 (ft):	8X3.5E14	Bays	2
SWC	Eave Strut	@	16.000 (ft):	8X3.5E14	Bays	3
SWC	Eave Strut	@	16.000 (ft):	8X3.5E14	Bays	4

RPC	Purlin Strut	@	20.000 (ft):	8X2.5Z14	Bays	1
RPC	Purlin Strut	@	20.000 (ft):	8X2.5Z14	Bays	2
RPC	Purlin Strut	@	20.000 (ft):	8X2.5Z14	Bays	3
RPC	Purlin Strut	@	20.000 (ft):	8X2.5Z14	Bays	4

SWA	Eave Strut	@	16.000 (ft):	8X3.5E14	Bays	1
SWA	Eave Strut	@	16.000 (ft):	8X3.5E14	Bays	2
SWA	Eave Strut	@	16.000 (ft):	8X3.5E14	Bays	3
SWA	Eave Strut	@	16.000 (ft):	8X3.5E14	Bays	4

Note: 1) All roof and wall strut bay numbers are as viewing the roof or wall plane
2) All purlin strut locations for all roof planes are measured from back sidewall
3) All purlin strut rows use the same lap lengths as the main purlin design.

Heritage

Design Summary Program

Design Summary Report

User: Rafael.arcer Job Number: 91454A

Version: 8.23.4 run01 Date: 12/03/25

Start Time: 17:04:09

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- 4) Eave strut interior connection at SWA uses (2)-1/2" A325 bolts.
- 5) Eave strut interior connection at SWC uses (2)-1/2" A325 bolts.
- 6) Eave strut connection at end-frame uses (4)-1/2" A325 bolts.

Bracing ---- Roof: 1 bays Rod

Plane SWA : 1 bays Rod: Hillside Washers

Plane SWC : 1 bays Rod: Hillside Washers

Plane EWB : End Frame

Plane EWD : End Frame

Heritage

Design Summary Program

Design Summary Report

User: Rafael.arcer Job Number: 91454A

Version: 8.23.4 run01 Date: 12/03/25

Start Time: 17:04:09

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Sidewall Plane SWA -- (8.250" Inset columns)

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Panel PBR
Panel width 36 in.
Panel gage 26 ga.
Girts 55.0 ksi yield strength

Girts Spacing: 7'6 4'2

Bay #	Elev. (ft-in)	Length (ft)	Member Size Identification	Brace Locations	L Lap Exten	R Lap Exten
1	7'6	20.000	8X2.5Z16	None	S 0.000	1.479 C
2	7'6	20.000	8X2.5Z16	None	C 1.479	1.479 C
3	7'6	20.000	8X2.5Z16	None	C 1.479	1.479 C
4	7'6	20.000	8X2.5Z16	None	C 1.479	0.000 S
1	11'8	20.000	8X2.5Z16	None	S 0.000	1.479 C
2	11'8	20.000	8X2.5Z16	None	C 1.479	1.479 C
3	11'8	20.000	8X2.5Z16	None	C 1.479	1.479 C
4	11'8	20.000	8X2.5Z16	None	C 1.479	0.000 S

Note: Maximum distance to extend girt from adjacent bay is 36.00 inches.

Heritage

Design Summary Program

Design Summary Report

User: Rafael.arcer Job Number: 91454A

Version: 8.23.4 run01 Date: 12/03/25

Start Time: 17:04:09

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Sidewall Plane SWC -- (8.250" Inset columns)

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Panel PBR
Panel width 36 in.
Panel gage 26 ga.
Girts 55.0 ksi yield strength

Girts Spacing: 7'6 4'2

Bay #	Elev. (ft-in)	Length (ft)	Member Size Identification	Brace Locations	L Lap Exten	R Lap Exten
1	7'6	20.000	8X2.5Z16	None	S 0.000	1.479 C
2	7'6	20.000	8X2.5Z16	None	C 1.479	1.479 C
3	7'6	20.000	8X2.5Z16	None	C 1.479	1.479 C
4	7'6	20.000	8X2.5Z16	None	C 1.479	0.000 S
1	11'8	20.000	8X2.5Z16	None	S 0.000	1.479 C
2	11'8	20.000	8X2.5Z16	None	C 1.479	1.479 C
3	11'8	20.000	8X2.5Z16	None	C 1.479	1.479 C
4	11'8	20.000	8X2.5Z16	None	C 1.479	0.000 S

Note: Maximum distance to extend girt from adjacent bay is 36.00 inches.

Heritage

Design Summary Program

Design Summary Report

User: Rafael.arcer Job Number: 91454A

Version: 8.23.4 run01 Date: 12/03/25

Start Time: 17:04:09

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Endwall Plane EWB DesignRIGID BEARING FRAME

R:\jobs\Active\Eng\20-B-91454\ver01-rafael.arcerabadan\BLDG-A\run01\AwallEWB_01.edf

Panel PBR

Panel width 36 in.

Panel gage 26 ga.

Girts 55.0 ksi yield strength

Girts Spacing: 7'6 6'6

Bay #	Elev. (ft-in)	Length (ft)	Member Size Identification	Brace Locations	L Lap Exten	R Lap Exten
1	7'6	19.312	8X2.5Z16	F.O.	S 0.000	0.000 S
2	7'6	19.312	8X2.5Z16	F.O.	S 0.000	0.000 S
1	14'0	19.312	8X2.5C14	None	S 0.000	0.000 S
2	14'0	19.312	8X2.5C14	None	S 0.000	0.000 S

Framed Openings:

Width	Height	Sill Ht	Jamb	Header/Sill	Bay	Distance
16'0	14'0	N/A	8X2.5C16	<u>Toe up Cee</u>	1	2'6
16'0	14'0	N/A	8X2.5C16	<u>Toe up Cee</u>	2	1'0

Columns ----- (0.000" Inset columns)

Col #	Dist. from left	Description Member Size Ident.	Base Elev (ft)	Base plate design information Thickness & rods
-------	-----------------	--------------------------------	----------------	--

1-B 20.000' Frame Line 1

Endwall Column to Bridge Channel Connections:

Col. No.	Strut-to-Column Clip
Endwall Plane 1	

Plane SWC:

1-B At Peak, Type 3 Conn., (4)-1/2" A325N
CF Brdg Channel (0.375") w/ (4)-3/4" A325N bolts
W8x10 Column Extension w/ 12.000" lap length
8X2.5C12 Bridge Channel

Plane SWA:

Heritage

Design Summary Program

Design Summary Report

User: Rafael.arcer Job Number: 91454A

Version: 8.23.4 run01 Date: 12/03/25

Start Time: 17:04:09

R:\...\20-B-91454\ver01-rafael.arcerabadan\BLDG-A\run01\91454A_bldg_A_01.cds

Endwall Plane EWD DesignRIGID BEARING FRAME

R:\jobs\Active\Eng\20-B-91454\ver01-rafael.arcerabadan\BLDG-A\run01\AwallEWD_01.edf

Panel PBR

Panel width 36 in.

Panel gage 26 ga.

Girts 55.0 ksi yield strength

Girts Spacing: 7'6 6'6

Bay #	Elev. (ft-in)	Length (ft)	Member Size Identification	Brace Locations	L Lap Exten	R Lap Exten
1	7'6	19.312	8X2.5Z16	F.O.	S 0.000	0.000 S
2	7'6	19.312	8X2.5Z16	F.O.	S 0.000	0.000 S
1	14'0	19.312	8X2.5C14	None	S 0.000	0.000 S
2	14'0	19.312	8X2.5C14	None	S 0.000	0.000 S

Framed Openings:

Width	Height	Sill Ht	Jamb	Header/Sill	Bay	Distance
16'0	14'0	N/A	8X2.5C16	<u>Toe up Cee</u>	1	2'6
16'0	14'0	N/A	8X2.5C16	<u>Toe up Cee</u>	2	1'0

Columns ----- (0.000" Inset columns)

Col #	Dist. from left	Description Member Size Ident.	Base Elev (ft)	Base plate design information Thickness & rods
-------	-----------------	--------------------------------	----------------	--

5-B 20.000' Frame Line 5

Endwall Column to Bridge Channel Connections:

Col. No. Strut-to-Column Clip
Endwall Plane 5

Plane SWA:

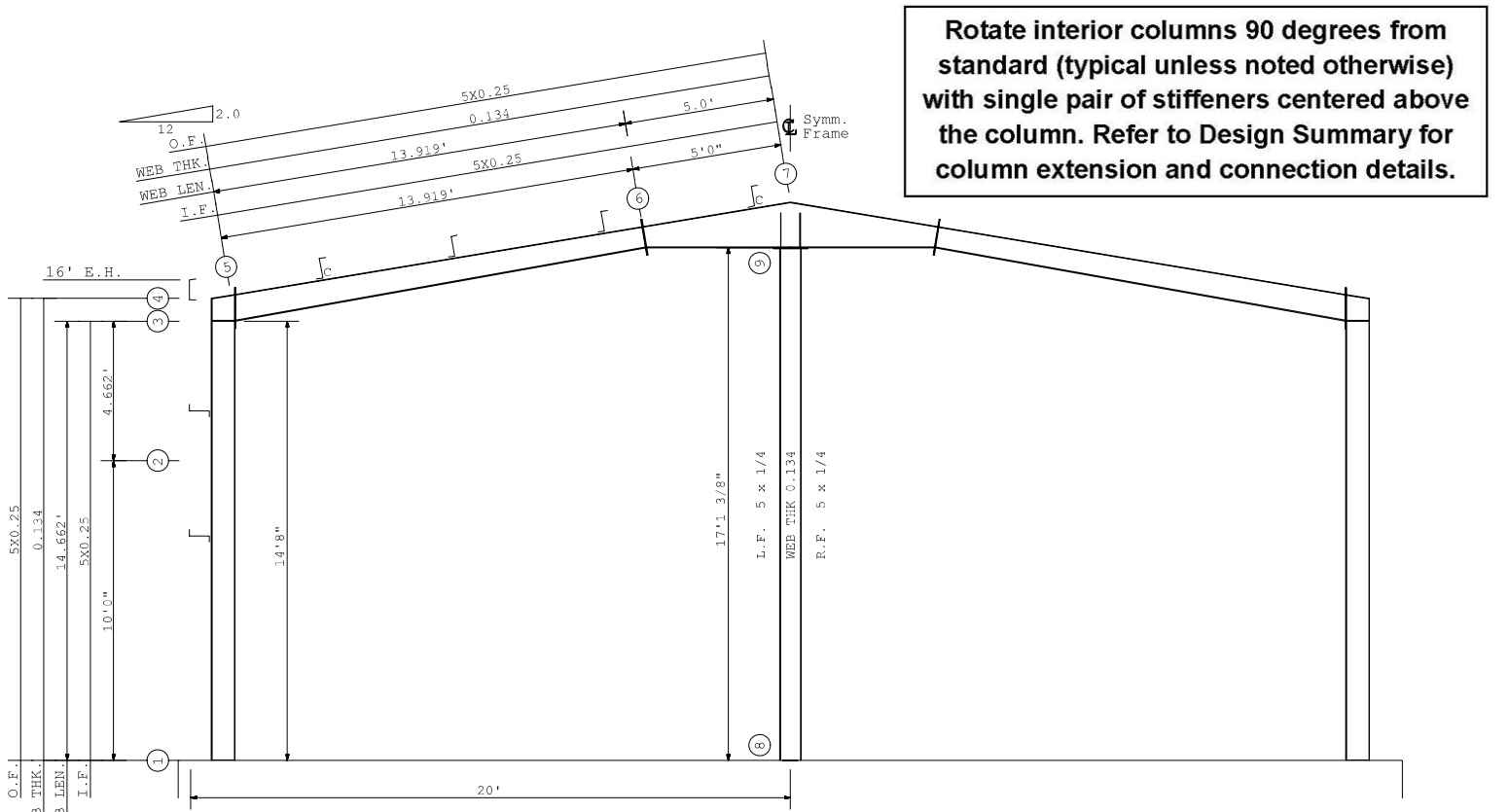
5-B At Peak, Type 3 Conn., (4)-1/2" A325N
CF Brdg Channel (0.375") w/ (4)-3/4" A325N bolts
W8x10 Column Extension w/ 12.000" lap length
8X2.5C12 Bridge Channel

Plane SWC:

Frames -----	Type	Span	Live	Wind	Eave	Trib	Grid Labels
	CS	40.000	20.00/110.00	16.00/	19.75	2,4	
	CS	40.000	20.00/110.00	16.00/	20.00	3	
	MS	40.000	20.00/110.00	16.00/	10.25	1	
	MS	40.000	20.00/110.00	16.00/	10.25	5	

Note: Use square anchor rod layout.

LOCATION: Gridlines 1 DETAIL FILE: \20-B-91454\ver01-rafael.arcerabadan\BLDG-A\Drftg\X03L BOLTS: A325 FULLY TIGHT WEIGHT: 1340 lbs PURLINS (horz. from eave): 8"-Z 2@4'4 13/16", 2@5' GIRTS (vert. from floor): 8"-Z 7'6", 4'2" (8.25")	(1) All sectional dimensions are in inches. (2) All Flange lengths are measured along outer flange.
--	--



CONNECTION DETAILS : GRIDLINES * = 1

Location	(1)*-C	(2)	(3)	(4)	(5)	(6)	(7)	(8)*-B	(9)
Web Dep.	9.0	9.0	9.0	N/A	10.0	8.0	17.5135	8.0	8.0
Type	BASE	SPLICE	HORZ STF	CAP (EXT)	2E/2E	2E/2E	SPLICE	BASE	CAP/STF
Plate (DN)	6.0x0.375	N/A	2.375x0.25	5.0x0.25	8.0x0.75	6.0x0.375	N/A	6.0x0.375	6.0x0.375
Plate (UP)	N/A	N/A	N/A	N/A	8.0x0.75	6.0x0.375	N/A	N/A	2.375x0.3125
Bolts	(4)-3/4	N/A	N/A	N/A	(8)-3/4	(8)-3/4	N/A	(4)-3/4	(4)-1/2

LOCATION:	Gridlines	2	4
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DETAIL FILE: \20-B-91454\ver01-rafael.arcerabadan\BLDG-A\Drftg\x01L

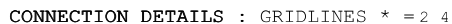
BOLTS:A325 FULLY TIGHT WEIGHT: 1248 lbs

PURLINS(horz. from eave) :8"-Z 2@4'4 13/16",2@5'

GIRTS (vert. from floor): 8"-Z 7'6", 4'2" (8.25")

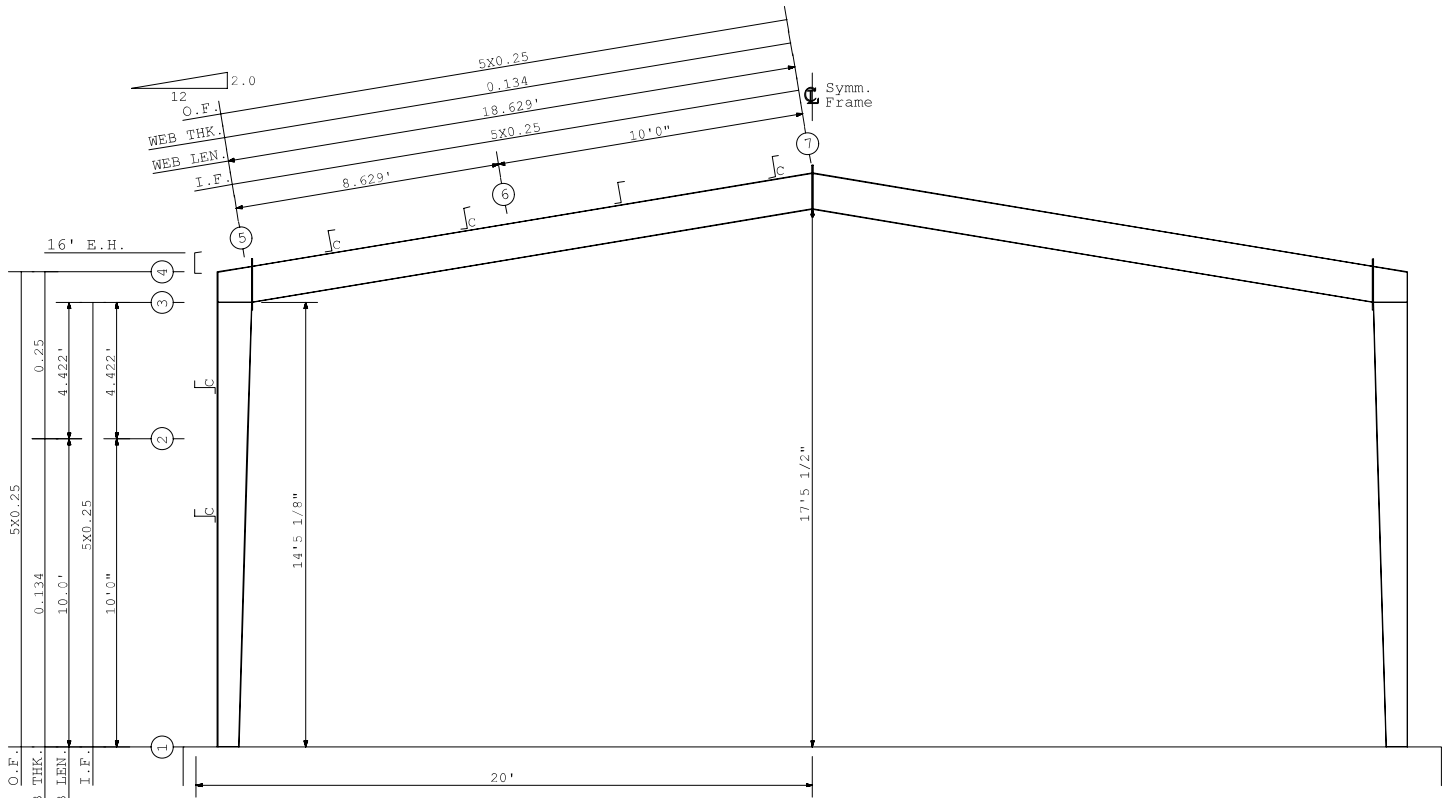
(1) All sectional dimensions are in inches.

(1) All sectional dimensions are in inches.
(2) All Flange lengths are measured along outer flange.



Location	①*-C	②	③	④	⑤	⑥	⑦
Web Dep.	8.0	11.4668	13.0	N/A	13.5	13.5	13.5
Type	BASE	SPLICE	HORZ STF	CAP (EXT)	2E/2E	SPLICE	2E/2E
Plate(DN)	6.0X0.375	N/A	2.375X0.25	5.0X0.25	6.0X0.75	N/A	6.0X0.5
Plate(UP)	N/A	N/A	N/A	N/A	6.0X0.75	N/A	6.0X0.5
Bolts	(4)-3/4	N/A	N/A	N/A	(8)-3/4	N/A	(8)-3/4

Heritage Building Systems		FRAME ID #2	USER NAME: Rafael.arcerabad	DATE: 12/03/25	TIME: 17:10:59	PAGE: 2 -1
8600 S. I-35, Oklahoma City, OK 73149		cs 40./16./20. 20./110./43.	JOB NAME: 91454A	FILE: frame_3.fra		
LOCATION: Gridlines 3			(1) All sectional dimensions are in inches.			
DETAIL FILE: \20-B-91454\ver01-rafael.arcerabadan\BLDG-A\Drftg*02L			(2) All Flange lengths are measured along outer flange.			
BOLTS: A325 FULLY TIGHT WEIGHT: 1248 lbs						
PURLINS (horz. from eave) : 8"-Z 2@4'4 13/16",2@5'						
GIRTS (vert. from floor): 8"-Z 7'6",4'2"(8.25")						



CONNECTION DETAILS : GRIDLINES * = 3

Location	① *-C	②	③	④	⑤	⑥	⑦
Web Dep.	8.0	11.4668	13.0	N/A	13.5	13.5	13.5
Type	BASE	SPLICE	HORZ STF	CAP (EXT)	2E/2E	SPLICE	2E/2E
Plate (DN)	6.0x0.375	N/A	2.375x0.25	5.0x0.25	6.0x0.75	N/A	6.0x0.5
Plate (UP)	N/A	N/A	N/A	N/A	6.0x0.75	N/A	6.0x0.5
Bolts	(4) - 3/4	N/A	N/A	N/A	(8) - 3/4	N/A	(8) - 3/4

Heritage Building Systems
8600 S. I-35, Oklahoma City, OK 73149

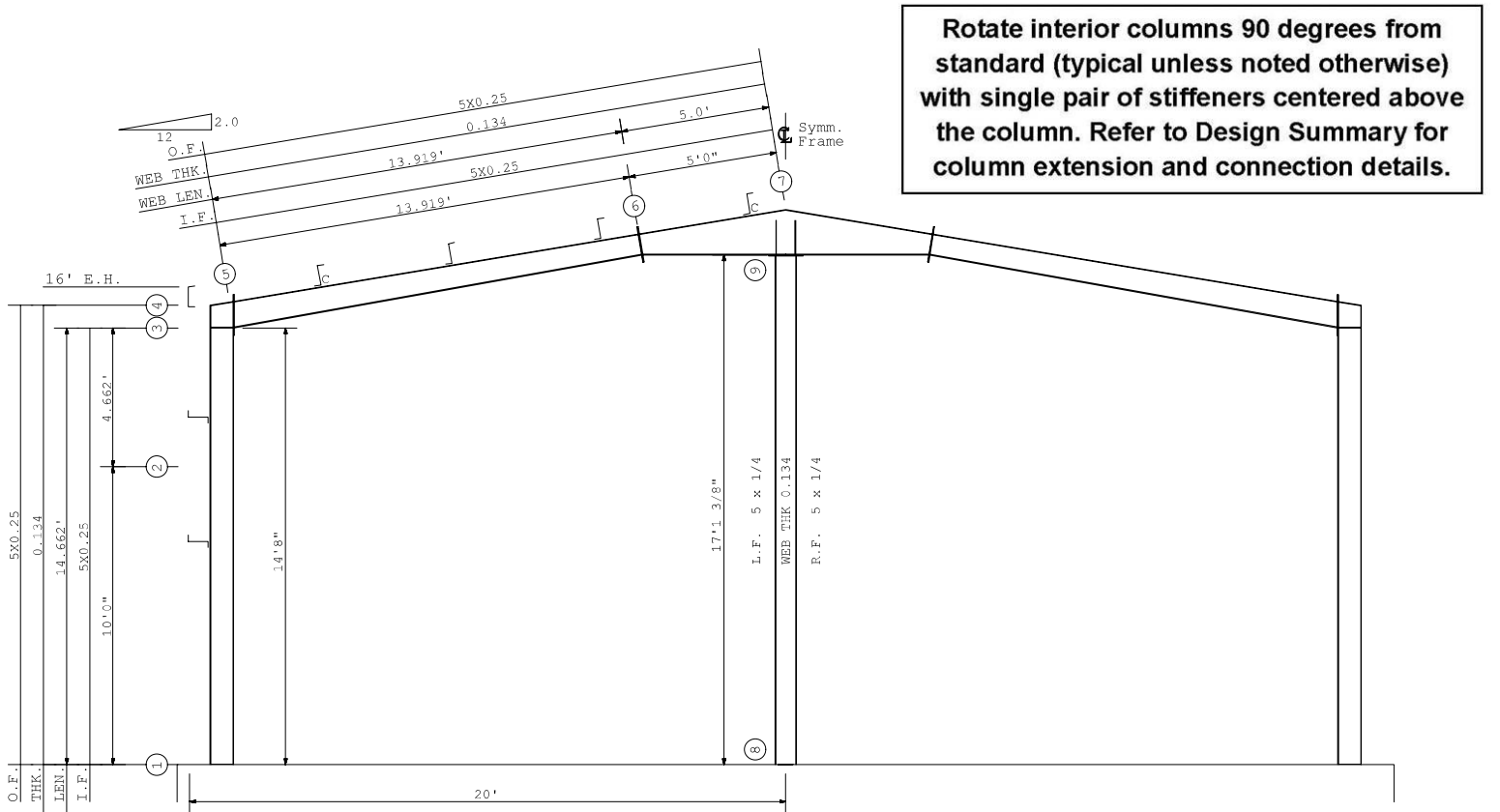
FRAME ID #4
msl 40./16./10.25 20./110./43.

USER NAME:Rafael.arcerabad
JOB NAME:91454A

DATE:12/03/25 TIME:17:10:54 PAGE: 4 -1
FILE:frame_5.fra

LOCATION: Gridlines 5
DETAIL FILE: \20-B-91454\ver01-rafael.arcerabadan\BLDG-A\Drftg\X04L
BOLTS:A325 FULLY TIGHT WEIGHT: 1340 lbs
PURLINS(horz. from eave) : 8"-Z 2@4'4 13/16", 2@5'
GIRTS (vert. from floor): 8"-Z 7'6", 4'2" (8.25")

- (1) All sectional dimensions are in inches.
(2) All Flange lengths are measured along outer flange.



CONNECTION DETAILS : GRIDLINES * = 5

Location	(1)*-C	(2)	(3)	(4)	(5)	(6)	(7)	(8)*-B	(9)
Web Dep.	9.0	9.0	9.0	N/A	10.0	8.0	17.5135	8.0	8.0
Type	BASE	SPLICE	HORZ STF	CAP (EXT)	2E/2E	2E/2E	SPLICE	BASE	CAP/STF
Plate (DN)	6.0x0.375	N/A	2.375x0.25	5.0x0.25	8.0x0.75	6.0x0.375	N/A	6.0x0.375	6.0x0.375
Plate (UP)	N/A	N/A	N/A	N/A	8.0x0.75	6.0x0.375	N/A	N/A	2.375x0.3125
Bolts	(4)-3/4	N/A	N/A	N/A	(8)-3/4	(8)-3/4	N/A	(4)-3/4	(4)-1/2

Eds2Tekla

User:
rafael.arcerabada
n

Job Number: 20-B-91454

Oklahoma City

Date: 12/03/2025 05:28:53 PM

Relative path: \\OKCSNA01\TS\jobs\Active\Eng\20-B-91454

Building: BLDG-A

CDS file name: 20-B-91454_BLDG-A_Eds2Tekla.cds

Planes

Name	File
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EWD	\\ver01-rafael.arcerabadan\BLDG-A\run01\AwallEWD_01.edf
SWC	\\ver01-rafael.arcerabadan\BLDG-A\run01\AwallSWC_01.edf
EWB	\\ver01-rafael.arcerabadan\BLDG-A\run01\AwallEWB_01.edf
RPA	\\ver01-rafael.arcerabadan\BLDG-A\run01\AroofRPA_01.edf
RPC	\\ver01-rafael.arcerabadan\BLDG-A\run01\AroofRPC_01.edf

Frames

Frame Line	Left Frame	Left File	Right Frame	Right File
1	E	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x03L	E	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x03L
2	F	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x01L	F	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x01L
3	G	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x02L	G	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x02L
4	F	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x01L	F	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x01L
5	H	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x04L	H	\\ver01-rafael.arcerabadan\BLDG-A\DRFTG\x04L

Portal Frames

Plane Name	Bay	Frame	File
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REACTIONS

BUILDER: CITY OF OGDEN-212366

CUSTOMER: MARA BROWN

JOB NUMBER: 20-B-91454

Notes

1. The reactions provided are based on the Order Documents at the time of mailing. Any changes to building loads or dimensions may change the reactions. The reactions will be superseded and voided by any future mailing.
2. The reactions provided have been created with the following layout (unless noted otherwise).
 - a. A reaction table is provided with the reactions for each load group.
 - b. Rigid Frames
See Note 3.
 - c. Endwalls
1. See Note 3.
 - d. X-Bracing
 1. X-Bracing reactions are included in values shown in the reaction tables.
 2. For IBC and UBC based building codes, when x-bracing is present in the sidewall, individual longitudinal seismic loads (RBUPEQ, RBDWEQ, E+, E- and LEQ) do **not** include the amplification factor, W
 3. For IBC and UBC based building codes, when x-bracing is present in the endwall, individual transverse seismic loads (EL & ER) do **not** include the amplification factor, W
 - e. The metal building manufacturer is responsible only for the portion of the anchor rod design pertaining to the transfer of forces between the base plate bearing and the anchor rod's shear and tension. The metal building manufacturer is not responsible for the anchor rod embedment for transfer of forces to the foundation. The metal building manufacturer does not design and is not responsible for the design, material, and construction of the foundation embedments. The end use customer shall assure that adequate provisions are made to the foundation design for loads imposed by column reactions of the building, other imposed loads, and bearing capacity of the soil and other conditions of the building site. It is recommended that the anchorage and foundation of the building be designed by a registered professional engineer competent in the design of such structures.
 - i. (ref. Appendix A3 of the MBMA Metal Building Systems Manual)
 - f. Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise on the anchor rod layout drawing.
3. Reactions are provided as un-factored for each load group applied to the column. The factors applied to load groups for the steel column design may be different than the factors used in the foundation design. The foundation engineer shall apply the appropriate load factors and combine the reactions in accordance with the building code and design specifications for proper foundation design.
 - a. For projects using ultimate design wind speeds such as 2012 IBC, 2015 IBC, or Florida building code, the wind load reactions are at a **strength** value with a load factor of 1.0.
 - b. For IBC codes, the seismic reactions provided are at a **strength** level with a load factor of 1.0, and do not contain the rho factor.

The manufacturer does not provide "maximum" load combination reactions. However, the individual load reactions provided may be used by the foundation engineer to determine the applicable load combinations for his/her design procedures and allow for an economical foundation design.

SUPPORT REACTIONS FOR EACH LOAD GROUP

*LOCATION: Gridlines: 1

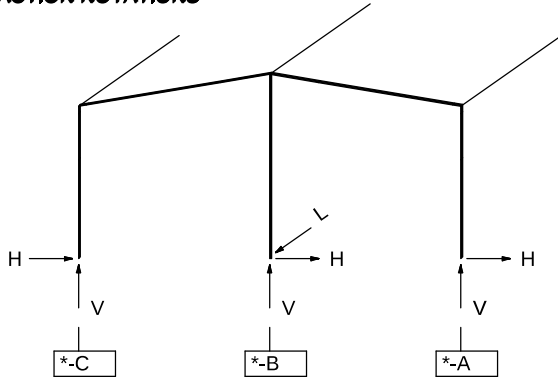
NOTES:(1) All reactions are in kips and kip-ft.

(2) Primary wind load cases are not concurrent.

(3) X-bracing reactions (RBPULW and RBUPEQ) are combined withLWL and LEQ groups only.

TIME:17:11:05

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 1

COLUMN	*-C			*-A			*-B		
LOAD GROUP	H	V	L	H	V	L	H	V	L
DL	0.0	0.5	-0.0	-0.0	0.5	-0.0	0.0	1.0	-0.0
COLL	0.0	0.1	-0.0	-0.0	0.1	-0.0	0.0	0.2	-0.0
PLL1	0.1	2.0	-0.0	-0.1	-0.2	-0.0	0.0	2.3	-0.0
PLL2	0.1	-0.2	-0.0	-0.1	2.0	-0.0	-0.0	2.3	-0.0
SNOW	0.2	2.7	-0.0	-0.2	2.7	-0.0	0.0	6.9	-0.0
LL	0.2	1.8	-0.0	-0.2	1.8	-0.0	0.0	4.6	-0.0
EQ	-0.4	-0.3	-0.0	-0.4	0.3	-0.0	0.2	0.0	-0.4
WL1	-1.7	-3.0	-0.0	-1.6	-0.7	-0.0	0.0	-4.3	-0.0
WL2	-2.1	-2.1	-0.0	-1.2	0.2	-0.0	0.0	-3.1	-0.0
LWL1	0.9	-2.5	-0.0	-0.5	-1.7	-0.0	-0.0	-3.5	-3.1
LWL2	0.5	-1.7	-0.0	-0.9	-2.5	-0.0	-0.0	-3.5	-3.1
LWL3	0.5	-1.7	-0.0	-0.1	-0.9	-0.0	0.0	-2.3	3.1
LWL4	0.1	-0.9	-0.0	-0.5	-1.7	-0.0	0.0	-2.3	3.1
WL3	1.6	-0.7	-0.0	1.7	-3.0	-0.0	-0.0	-4.3	-0.0
WL4	1.2	0.2	-0.0	2.1	-2.1	-0.0	-0.0	-3.1	-0.0
SBAL	0.2	2.4	-0.0	-0.2	2.4	-0.0	0.0	6.3	-0.0
RS	0.2	0.4	-0.0	-0.2	2.9	-0.0	-0.0	5.3	-0.0
LS	0.2	2.9	-0.0	-0.2	0.4	-0.0	0.0	5.3	-0.0

LOAD GROUP DESCRIPTION

DL	: Roof Dead Load
COLL	: Roof Collateral Load
PLL1	: Pattern Live Load [PLLxx]
PLL2	: Pattern Live Load [PLLxx]
SNOW	: Roof Snow Load
LL	: Roof Live Load
EQ	: Lateral Seismic Load [parallel to plane of frame]
WL1	: Wind from Left to Right with +GCpi
WL2	: Wind from Left to Right with -GCpi
LWL1	: Windward Corner Left with +GCpi
LWL2	: Windward Corner Right with +GCpi
LWL3	: Windward Corner Left with -GCpi
LWL4	: Windward Corner Right with -GCpi
WL3	: Wind from Right to Left with +GCpi
WL4	: Wind from Right to Left with -GCpi
SBAL	: Code Calculated Balanced Roof Snow Load
RS	: Unbalanced Right Roof Snow Load
LS	: Unbalanced Left Roof Snow Load

ADDITIONAL NOTES:

(1) Pattern live or snow load cases are not concurrent with any other live or snow load cases.

SUPPORT REACTIONS FOR EACH LOAD GROUP

*LOCATION: Gridlines: 2 4

NOTES:(1) All reactions are in kips and kip-ft.

(2) The seismic overstrength factor (Omega) is not included in the "RBDWEQ" and "RBUPEQ" Load Group reactions.

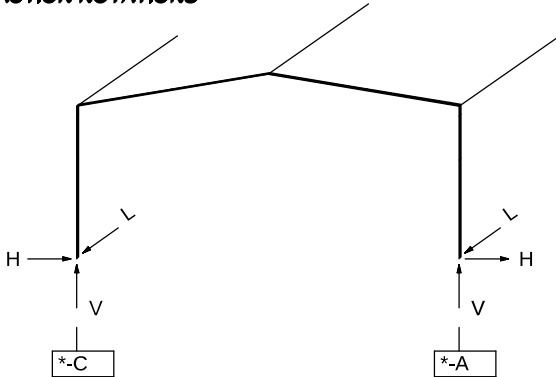
Seismic "BASE-ONLY" combination reactions include an overstrength factor of: 2.000

(3) Primary wind load cases are not concurrent.

(4) X-bracing reactions (RBPULW and RBUPEQ) are combined with LWL and LEQ groups only.

TIME:17:10:50

REACTION NOTATIONS



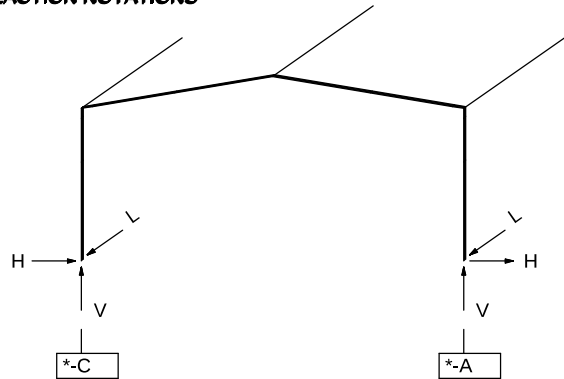
LOAD GROUP REACTION TABLE GRIDLINES * = 2 4

COLUMN	*-C			*-A		
	H	V	L	H	V	L
DL	0.4	1.4	-0.0	-0.4	1.4	-0.0
COLL	0.1	0.4	-0.0	-0.1	0.4	-0.0
SNOW	3.5	11.9	-0.0	-3.5	11.8	-0.0
LL	1.4	4.7	-0.0	-1.4	4.7	-0.0
RBDWEQ	-0.0	2.5	-0.0	0.0	2.5	-0.0
EQ	-0.7	-0.6	-0.0	-0.7	0.6	-0.0
RBUPEQ	0.0	-2.5	-3.1	-0.0	-2.5	-3.1
WL1	-3.4	-6.9	-0.0	-0.9	-4.1	-0.0
WL2	-3.7	-4.2	-0.0	-0.7	-1.4	-0.0
WL3	0.9	-4.1	-0.0	3.4	-6.9	-0.0
WL4	0.7	-1.4	-0.0	3.7	-4.2	-0.0
LWL1	0.4	-5.9	-0.0	-0.0	-4.9	-0.0
RBUPLW	0.0	-2.3	-2.9	-0.0	-2.3	-2.9
LWL2	0.0	-4.9	-0.0	-0.4	-5.9	-0.0
LWL3	0.2	-3.1	-0.0	0.2	-2.2	-0.0
LWL4	-0.2	-2.2	-0.0	-0.2	-3.1	-0.0
SBAL	3.2	10.7	-0.0	-3.2	10.7	-0.0
RS	2.7	6.0	-0.0	-2.7	10.7	-0.0

LOAD GROUP DESCRIPTION

DL	: Roof Dead Load
COLL	: Roof Collateral Load
SNOW	: Roof Snow Load
LL	: Roof Live Load
RBDWEQ	: Downward Acting Rod Brace Load from Long. Seismic
EQ	: Lateral Seismic Load [parallel to plane of frame]
RBUPEQ	: Upward Acting Rod Brace Load from Long. Seismic
WL1	: Wind from Left to Right with +GCpi
WL2	: Wind from Left to Right with -GCpi
WL3	: Wind from Right to Left with +GCpi
WL4	: Wind from Right to Left with -GCpi
LWL1	: Windward Corner Left with +GCpi
RBUPLW	: Upward Acting Rod Brace Load from Long. Wind
LWL2	: Windward Corner Right with +GCpi
LWL3	: Windward Corner Left with -GCpi
LWL4	: Windward Corner Right with -GCpi
SBAL	: Code Calculated Balanced Roof Snow Load
RS	: Unbalanced Right Roof Snow Load

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 2 4

COLUMN	*-C			*-A		
LOAD GROUP	H	V	L	H	V	L
LS	2.7	10.7	-0.0	-2.7	6.0	-0.0
RBDWLW	-0.0	2.3	-0.0	0.0	2.3	-0.0

LOAD GROUP DESCRIPTION

- LS : Unbalanced Left Roof Snow Load
- RBDWLW : Downward Acting Rod Brace Load from Long. Wind

SUPPORT REACTIONS FOR EACH LOAD GROUP

*LOCATION: Gridlines: 3

NOTES:(1) All reactions are in kips and kip-ft.

(2) The seismic overstrength factor (Omega) is not included in the "RBDWEQ" and "RBUPEQ" Load Group reactions.

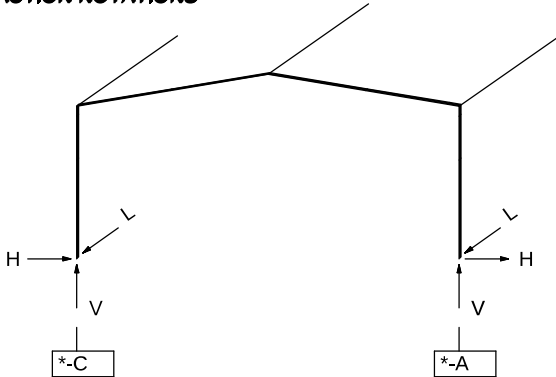
Seismic "BASE-ONLY" combination reactions include an overstrength factor of: 2.000

(3) Primary wind load cases are not concurrent.

(4) X-bracing reactions (RBPULW and RBUPEQ) are combined with LWL and LEQ groups only.

TIME:17:10:59

REACTION NOTATIONS



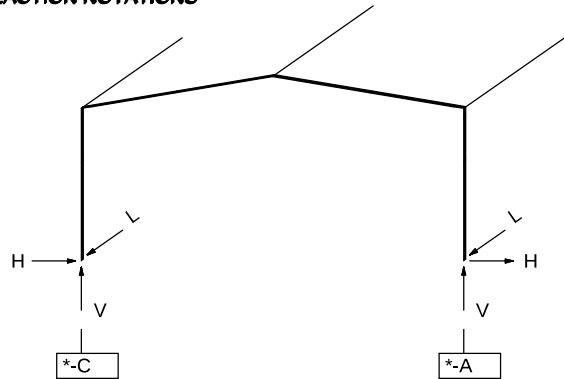
LOAD GROUP REACTION TABLE GRIDLINES * = 3

COLUMN	*-C			*-A		
	H	V	L	H	V	L
DL	0.4	1.4	-0.0	-0.4	1.4	-0.0
COLL	0.1	0.4	-0.0	-0.1	0.4	-0.0
SNOW	3.6	12.0	-0.0	-3.6	12.0	-0.0
LL	1.4	4.8	-0.0	-1.4	4.8	-0.0
RBDWEQ	-0.0	2.5	-0.0	0.0	2.5	-0.0
EQ	-0.7	-0.6	-0.0	-0.7	0.6	-0.0
RBUPEQ	0.0	-2.5	-3.1	-0.0	-2.5	-3.1
WL1	-3.5	-7.0	-0.0	-0.9	-4.2	-0.0
WL2	-3.7	-4.2	-0.0	-0.7	-1.4	-0.0
WL3	0.9	-4.2	-0.0	3.5	-7.0	-0.0
WL4	0.7	-1.4	-0.0	3.7	-4.2	-0.0
LWL1	0.5	-5.9	-0.0	-0.0	-5.0	-0.0
RBUPLW	0.0	-2.3	-2.9	-0.0	-2.3	-2.9
LWL2	0.0	-5.0	-0.0	-0.5	-5.9	-0.0
LWL3	0.2	-3.2	-0.0	0.2	-2.2	-0.0
LWL4	-0.2	-2.2	-0.0	-0.2	-3.2	-0.0
SBAL	3.2	10.8	-0.0	-3.2	10.8	-0.0
RS	2.7	6.1	-0.0	-2.7	10.9	-0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load
COLL : Roof Collateral Load
SNOW : Roof Snow Load
LL : Roof Live Load
RBDWEQ : Downward Acting Rod Brace Load from Long. Seismic
EQ : Lateral Seismic Load [parallel to plane of frame]
RBUPEQ : Upward Acting Rod Brace Load from Long. Seismic
WL1 : Wind from Left to Right with +GCpi
WL2 : Wind from Left to Right with -GCpi
WL3 : Wind from Right to Left with +GCpi
WL4 : Wind from Right to Left with -GCpi
LWL1 : Windward Corner Left with +GCpi
RBUPLW : Upward Acting Rod Brace Load from Long. Wind
LWL2 : Windward Corner Right with +GCpi
LWL3 : Windward Corner Left with -GCpi
LWL4 : Windward Corner Right with -GCpi
SBAL : Code Calculated Balanced Roof Snow Load
RS : Unbalanced Right Roof Snow Load

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 3

COLUMN	*-C			*-A		
LOAD GROUP	H	V	L	H	V	L
LS	2.7	10.9	-0.0	-2.7	6.1	-0.0
RBDWLW	-0.0	2.3	-0.0	0.0	2.3	-0.0

LOAD GROUP DESCRIPTION

- LS

:

Unbalanced Left Roof Snow Load
- RBDWLW

:

Downward Acting Rod Brace Load from Long. Wind

SUPPORT REACTIONS FOR EACH LOAD GROUP

*LOCATION: Gridlines:

5

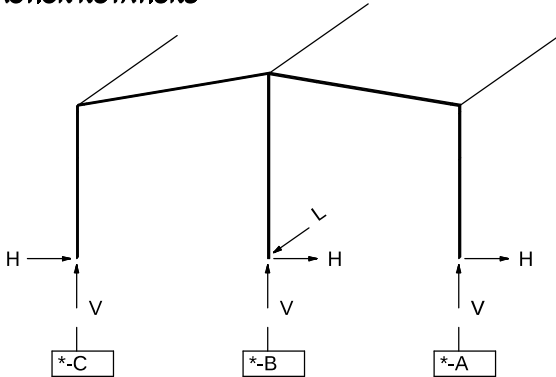
NOTES:(1) All reactions are in kips and kip-ft.

(2) Primary wind load cases are not concurrent.

(3) X-bracing reactions (RBPULW and RBUPEQ) are combined withLWL and LEQ groups only.

TIME:17:10:54

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 5

COLUMN	*-C			*-A			*-B		
LOAD GROUP	H	V	L	H	V	L	H	V	L
DL	0.0	0.5	-0.0	-0.0	0.5	-0.0	0.0	1.0	-0.0
COLL	0.0	0.1	-0.0	-0.0	0.1	-0.0	0.0	0.2	-0.0
PLL1	0.1	2.0	-0.0	-0.1	-0.2	-0.0	0.0	2.3	-0.0
PLL2	0.1	-0.2	-0.0	-0.1	2.0	-0.0	-0.0	2.3	-0.0
SNOW	0.2	2.7	-0.0	-0.2	2.7	-0.0	0.0	6.9	-0.0
LL	0.2	1.8	-0.0	-0.2	1.8	-0.0	0.0	4.6	-0.0
EQ	-0.4	-0.3	-0.0	-0.4	0.3	-0.0	0.2	0.0	-0.4
WL1	-1.7	-3.0	-0.0	-1.6	-0.7	-0.0	0.0	-4.3	-0.0
WL2	-2.1	-2.1	-0.0	-1.2	0.2	-0.0	0.0	-3.1	-0.0
LWL1	0.9	-2.5	-0.0	-0.5	-1.7	-0.0	-0.0	-3.5	-3.1
LWL2	0.5	-1.7	-0.0	-0.9	-2.5	-0.0	-0.0	-3.5	-3.1
LWL3	0.5	-1.7	-0.0	-0.1	-0.9	-0.0	0.0	-2.3	3.1
LWL4	0.1	-0.9	-0.0	-0.5	-1.7	-0.0	0.0	-2.3	3.1
WL3	1.6	-0.7	-0.0	1.7	-3.0	-0.0	-0.0	-4.3	-0.0
WL4	1.2	0.2	-0.0	2.1	-2.1	-0.0	-0.0	-3.1	-0.0
SBAL	0.2	2.4	-0.0	-0.2	2.4	-0.0	0.0	6.3	-0.0
RS	0.2	0.4	-0.0	-0.2	2.9	-0.0	-0.0	5.3	-0.0
LS	0.2	2.9	-0.0	-0.2	0.4	-0.0	0.0	5.3	-0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load
COLL : Roof Collateral Load
PLL1 : Pattern Live Load [PLLxx]
PLL2 : Pattern Live Load [PLLxx]
SNOW : Roof Snow Load
LL : Roof Live Load
EQ : Lateral Seismic Load [parallel to plane of frame]
WL1 : Wind from Left to Right with +GCpi
WL2 : Wind from Left to Right with -GCpi
LWL1 : Windward Corner Left with +GCpi
LWL2 : Windward Corner Right with +GCpi
LWL3 : Windward Corner Left with -GCpi
LWL4 : Windward Corner Right with -GCpi
WL3 : Wind from Right to Left with +GCpi
WL4 : Wind from Right to Left with -GCpi
SBAL : Code Calculated Balanced Roof Snow Load
RS : Unbalanced Right Roof Snow Load
LS : Unbalanced Left Roof Snow Load

ADDITIONAL NOTES:

(1) Pattern live or snow load cases are not concurrent with any other live or snow load cases.



Galvalume Roof

White Trim

Desert Sand Sides

Pre-colored metal siding and roof.



BLDG-C

SHEET

0

REVISION

REV	DATE	DESCRIPTION
0	MM/DD/YY	DESCRIPTION

PROFESSIONAL

Seal of Daniel Gillies

Daniel Gillies

NO. 430084-2000

EXP. 12/31/2026

CIVIL

STATE OF UTAH

DESIGNED

DRAWN

CHECKED

DATE

12/23/2025

DBR

DBR

DSG

DRAWING SCALE

H: 1" = 20' (22x34)

V: 1" = 5' (22x34)

V: 1" = 10' (11x17)

1300 VALLEY DR

EL MONTE CART SHED

BUILDING COLORS

2549 Washington Blvd, Suite 760

Phone: 801-629-8980

Ogden

UTAH

Still Untamed™

Ogden, UT 84401

engineering.ogden-city.com

DRAWING NAME: Foundation Detail.dwg

PLOT DATE: 12/24/2025 8:40 AM