



Department of Public Works

Invitation to Bid

Community Field Little League Dugouts & Benches

Litchfield, Connecticut

The Town of Litchfield is accepting bids for the installation of four Little League Field Dugouts at Community Field. All bids must be submitted on forms and in accordance with specifications supplied by the Town of Litchfield, Public Works Department. Bids will be received at the Public Works Department, 101 Russell Street, Litchfield, CT, 06759 until October 26, 2026 at 2:00 p.m., and will be opened and read publicly at that time in said office. The bid and associated documents can be downloaded from the Town of Litchfield web site: www.townoflitchfieldct.gov

Instructions to Bidders

1. Intent

The intent of these specifications is to obtain a General Contractor to order and install four prefabricated dugouts with benches, fencing, footings and slabs at the Community Field Little League Fields. The contractor shall have adequate licenses, equipment, and materials for this project.

All Bidders shall observe the following instructions and specifications:

2. General Provisions

Final Questions: October 15, 2026 at 3:30 p.m.

Bid Opening: October 26, 2026 at 2:00 p.m. at the Public Works Dept.

Bid Return Envelope: Bidders shall submit bids in an envelope clearly marked, with the bid title and opening date to prevent a sealed bid from being opened prior to the opening date. Any bid not so marked and opened by the Town shall be rejected. The following forms must be submitted:

- A. Bid Schedule
- B. Hold Harmless Agreement and Supplemental Agreement
- C. Non-Collusion
- D. Non-Discrimination
- E. References

3. Proposal Questions

Any questions pertaining to the scope of the work or content or procedure for submitting proposals should be directed to Brett Seamans, Supervisor of Public Works by e-mail to be received no later than October 15, 2026 at 3:30. Any questions received after that date will not be answered. It is the contractor's responsibility to ensure their questions were received. Contact information is as follows:

Brett Seamans, Department of Public Works
bseamans@townoflitchfieldct.gov

4. Basis of Award

It is intended this Contract shall be awarded to the Bidder that best meets the needs of the Town of Litchfield with respect to qualifications, contractor's submitted start date and cost.

5. Notice of Award

The Town shall give notice of Acceptance of a bid to the successful bidder by Email to the Bidder's Email address stated in the bid. Individuals are invited to attend the Bid Opening, with official bid results pending notification of the successful bidder.

6. Award of Contract

The Town reserves the right to reject any and all bids for any reason the Town deems advisable, and to award contract or contracts to any Contractors bidding on the work, regardless of the amount of bid.

7. Bid Security

A bid bond or certified check is not required for this bid.

8. Performance; Labor and Material Bond

A Performance Bond or Certified Check is required for this bid.

9. Scope of Work Change

The Town reserves the right to change the scope of the project after the bid is awarded, without penalty to the Town. All changes in scope will be issued in writing by the Director of Public Works or his designee.

10. Substitution of Named Brands

Should brand names appear in this bid, before bidding on any item considered equal to or better than a named item, the Bidder must get written approval from the Supervisor of Public Works.

11. Price, Discounts, and Payment

Prices bid shall not include any taxes, Local, State, or Federal, as the Town is not liable. In addition to the price bid, each Bidder may quote binding discounts, which will be considered when making the award.

12. Delays

Contract time delays for completion of work shall be authorized in writing by the Director of Public Works.

13. Liquidated Damages

The amount of two hundred dollars (\$200) is agreed upon as liquidated damages and shall be paid for every day the Contractor exceeds the allowable contract time for completion, Twenty (20) business days. This sum shall be paid by the Contractor to the Town or withheld from final payment to the Contractor. The contract time period must start with the Notice to Proceed or Purchase Order from the Town of Litchfield.

14. Assignment of Contract

Contractor shall not sublet, sell, transfer, assign, or dispose of contract or any portion thereon or of right, title, or interest therein of obligations thereunder, without written consent of the Town.

15. Acceptance of Subcontractor

Submission of name of Subcontractor in proposal shall be deemed to constitute an acceptance by Contractor, if awarded contract of bid, of such Subcontractor. Any alteration therein, after award of contract, shall be subject to the approval of the Town.

16. Basis of Payment

Payment for this work shall be at the lump sum bid for work completed and accepted, except as noted herein and shall include all equipment, materials, labor, and tools incidental to the completion of this work.

17. Payments for Extra Work

Written notice of claims for extra work shall be given by Contractor within ten (10) days after receipt of written instruction from the Town as approved by the Director of Public Works or his designee, to proceed with extra work and also before any work is commenced, except in emergency endangering life or property. No claim shall be valid unless so made. In all cases, Contractor's itemized sheet showing all labor and material must be submitted to the Director of Public Works. Town order for extra work shall specify any extension of contract time and one of the following methods of payment:

- A. Unit Prices or combination of unit prices.
- B. A lump sum based on Contractor's estimate accepted by owner and approved by the Director of Public Works.
- C. Actual costs plus ten percent (10%) for overhead and profit.

18. Payment Requests, Retainage and Guarantee Period

Contractor must submit a payment request for payment once each month for work done and materials delivered and installed on the site. Each request for payment must be computed from work completed, less ten percent (10%) to be retained until expiration of the guarantee period, which is one (1) year from written acceptance of work.

19. Insurance (Due after award of bid)

The contractor will file with the Town of Litchfield, the following evidence of insurance. Certificates must be on file with the Town before acceptance of Bid or work commences.

Workers Compensation

Coverage A: Statutory

Coverage B: Employers Liability:

Bodily injury by accident	\$ 100,000 per person
Bodily injury by disease	\$ 100,000 per person
Bodily injury	\$ 500,000 aggregate

Comprehensive Commercial Liability

Bodily injury; General Limit	\$ 1,000,000 aggregate
Products/Completed Operations	\$ 1,000,000 aggregate
Personal and Advertising Injury	\$ 1,000,000 aggregate
Each Occurrence	\$ 1,000,000 aggregate
Fire Damage Limit	\$ 100,000 aggregate
Medical Expenses	\$ 100,000 per person

Coverages:

Premises/Independent Contractors
Contractual/Completed Operations/Products
Contractual/Liability will be Broad Form
XCU (explosion/collapse/underground utilities)
Comprehensive Broad Form Liability endorsement or Equivalent
Broad Form property Damage Liability

Automobile Liability

Bodily Injury	\$1,000,000 per person
Aggregate	\$1,000,000 per person
Property Damage	\$1,000,000 per person

Coverages:

All owned/non owned/hired/borrowed
Contractual liability to be included

Contractors must name the Town of Litchfield as an additional named insured on all certificates. All policies will provide thirty (30) days' notice of cancellation as well as ten (10) days' notice of material change in the policies to the First Selectman's Office of the Town of Litchfield.

20. Permits

The contractor is responsible for obtaining all local, state and federal permits required for completion of the project. Copies of all permits will be submitted to the Director of Public Works prior to commencing work. In instances where the governing body waives a permit a copy of the communication in lieu of the permit.

21. Hold Harmless Agreement

The Contractor agrees to hold harmless the Town of Litchfield and its respective officers, agents, and employees from any loss, costs, damages, expenses, judgements, and liability whatsoever kind or nature howsoever the same may be caused resulting directly or indirectly by any act of omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable resulting in bodily injury including sickness and death, personal injury, or damage to property directly or indirectly, including the loss of use resulting therefrom as permitted by law. The Contractor will be required to sign the enclosed Hold Harmless Agreement prepared by the Town.

22. Supplemental Agreement

The Contractor named below is an independent contractor and neither the Contractor nor its employees nor the Contractor's Subcontractor(s) under any circumstances, will be

considered servants or agents of the Town of Litchfield and the Town will be at no time legally responsible for any negligence or other wrong doing by the Contractor, its servants or agents or the Contractor's Subcontractor(s). The Town will not withhold from contract payments to the Contractor any Federal or State unemployment taxes, Federal or State Income Taxes, Social Security Tax, or any other amount for benefits to the Contractor. The lump sum or unit charges for service provided does not represent gross wages and further the Town will not provide the Contractor any insurance coverage or other benefits, including Worker's Compensation, normally provided by the Town to its employees. The Contractor will be required to sign the enclosed Supplemental Agreement prepared by the Town.

23. Length of Contract

The Town of Litchfield is requesting that work to be completed no later than April 1, 2027.

Specifications

Dugouts (Quantity 4)

- 8'D x 20'L x 8'H
- All-steel construction (A500 square structural steel tubing)
- 26-gauge galvanized metal roof panel & steel support columns are powder coated
- Beacon Athletics or Equal

Benches (Quantity 4)

- 15'L x 36"H x 37"D (Seats 10)
- 10"W anodized aluminum non-skid seat planks & back rests, 19"W non-skid shelf
- (3) 2" sq. heavy-duty rust resistant steel legs
- Beacon Athletics or Equal

Fencing (Quantity 4)

- 20 linear feet of 7'6"H vinyl coated chain link fence behind each dugout

Concrete Slabs & Footings & Base Preparation

- As specified in concrete notes on Master Drawing set

See Master Drawings and cutsheets for additional specification information.

Bid Schedule
Playground Improvements
Town of Litchfield

Lump sum: \$ _____

Written: _____

Note: Prevailing wage rates apply if bid is over \$100,000.

The undersigned is familiar with the conditions surrounding this call for bids, is aware that the Town reserves the right to reject any and all bids, and is submitting this bid without collusion with any other person, individual, or corporation.

Bidder _____

By _____
(Signature) (Title)

(Name – Typed) Date _____

Address _____

Phone _____

Email _____

HOLD HARMLESS AGREEMENT

The Contractor named below agrees that it will indemnify and hold harmless the Town of Litchfield and its respective officers, agents and employees from any loss, costs, damages, expenses, judgments and liability whatsoever kind or nature howsoever the same may be caused resulting directly or indirectly by any negligent act or omission of the contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable resulting in bodily injury including sickness and death, personal injury or damage to property directly or indirectly, including the loss of use resulting therefrom as permitted by law, unless and to the extent caused by the Town of Litchfield's negligence or its willful acts.

SUPPLEMENTAL AGREEMENT

The Contractor named below is an independent contractor and neither the Contractor nor its employees nor the Contractor's subcontractors under any circumstances, will be considered servants or agents of the Town of Litchfield and the Town will be at no time legally responsible for any negligence or other wrong doing by the Contractor, its servants or agents or the Contractor's subcontractors. The Town will not withhold from the contract payments to the Contractor for any federal or state unemployment taxes, federal or state income taxes, Social Security tax, or any other amounts for benefits to the Contractor. The lump sum or unit charges for the services provided does not represent gross wages and further the Town will not provide the Contractor any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Town for its employees.

STATE OF CONNECTICUT)

COUNTY OF)

ss:

Signed: _____

Print Name: _____

Title: _____

Company: _____

Address: _____

Subscribed and sworn to before me on
this _____ day of _____, 20__.

Notary Public



TOWN OF LITCHFIELD

NONDISCRIMINATION CERTIFICATION

Representation by Individual

Written representation that complies with the nondiscrimination agreements and warranties under the Connecticut General Statutes ss/ss 4a-60(a)(1) and 4a-60a(a)(1) as amended.

Instructions:

For use by an individual who is not an entity (corporation, limited liability company, or partnership) when entering into any contract type with the Town of Litchfield, regardless of contract value. Submit to the awarding agency prior to contract execution.

Representation of an Individual:

I, _____, of _____,
Signatory Business Address

Represent that I will comply with the nondiscrimination agreements and warranties of Connecticut General Statutes ss/ss 4a-60(a)(1) and 4a-60 (a) (1) as amended.

Signatory

Date

Printed Name



TOWN OF LITCHFIELD

NONDISCRIMINATION CERTIFICATION

Representation by Entity

Written representation that complies with the nondiscrimination agreements and warranties under the Connecticut General Statutes ss/ss 4a-60(a)(1) and 4a-60a(a)(1) as amended.

Instructions:

For use by an entity (corporation, limited liability company, or partnership) when entering into any contract type with the Town of Litchfield, regardless of contract value. Submit to the awarding agency prior to contract execution.

Representation of an Entity:

I, _____, _____, of _____,
Authorized Signatory Title Name of Entity

An entity duly formed and existing under the laws of _____,
Name State of Commonwealth

Represent that I am authorized to execute and deliver this representation on behalf of

_____ and that _____ has a
Name of Entity Name of Entity

Policy in place that complies with the nondiscrimination agreements and warranties of Connecticut General Statutes ss/ss 4a-60(a)(1) and 4a-60 (a) (1) as amended.

Authorized Signatory

Date

Printed Name



NON-COLLUSION AFFIDAVIT

(This affidavit must be signed and sworn to by the person signing bid)

AFFIDAVIT FOR INDIVIDUAL BIDDER

STATE OF _____

COUNTRY OF _____

(Persons Name) Being first duly sworn, deposes and says:

That they are the person who is the Bidder submitting the accompanying bid for Town Project, and that they, having read, understood, and agreed to all the terms and provisions thereof, signed this affidavit; and the accompanying bid; and that such bid is genuine and not a sham or collusive or made in the interest or on behalf of any person not therein named; and that said Bidder has not directly or indirectly, induced or solicited any other Bidder to put in a sham bid, or any other person, firm or corporation to refrain from bidding and that said Bidder has not in any manner sought by collusion to secure said Bidder any advantage over any other Bidder; and that said Bidder has not otherwise taken any action in restraint of free competitive bidding in connection with the subject bid.

Signed and sworn to before me this _____ day of _____, 20__

Notary Public
(Seal) My Commission expires _____

(Signature of named individual)



NON-COLLUSION AFFIDAVIT

(This affidavit must be signed and sworn to by the person signing bid)

AFFIDAVIT FOR CO-PARTNERSHIP BIDDER

STATE OF _____

COUNTRY OF _____

(Persons Names)

Each being first duly sworn, each deposes and each for themselves says: That they are a member of and that the persons listed above collectively compose the co-partnership firm designated as

_____ who is the Bidder submitting the

(Firm Name)

accompanying bid for Town Project, and that they, being duly authorized, signed this affidavit on behalf of said Bidder; and that such bid is genuine and not a sham or collusive or made in the interest or on behalf of any person not therein named; and that said Bidder has not directly or indirectly, induced or solicited any other Bidder to put in a sham bid, or any other person, firm or corporation to refrain from bidding and that said Bidder has not in any manner sought by collusion to secure said Bidder any advantage over any other Bidder; and that said Bidder has not otherwise taken any action in restraint of free competitive bidding in connection with the subject bid.

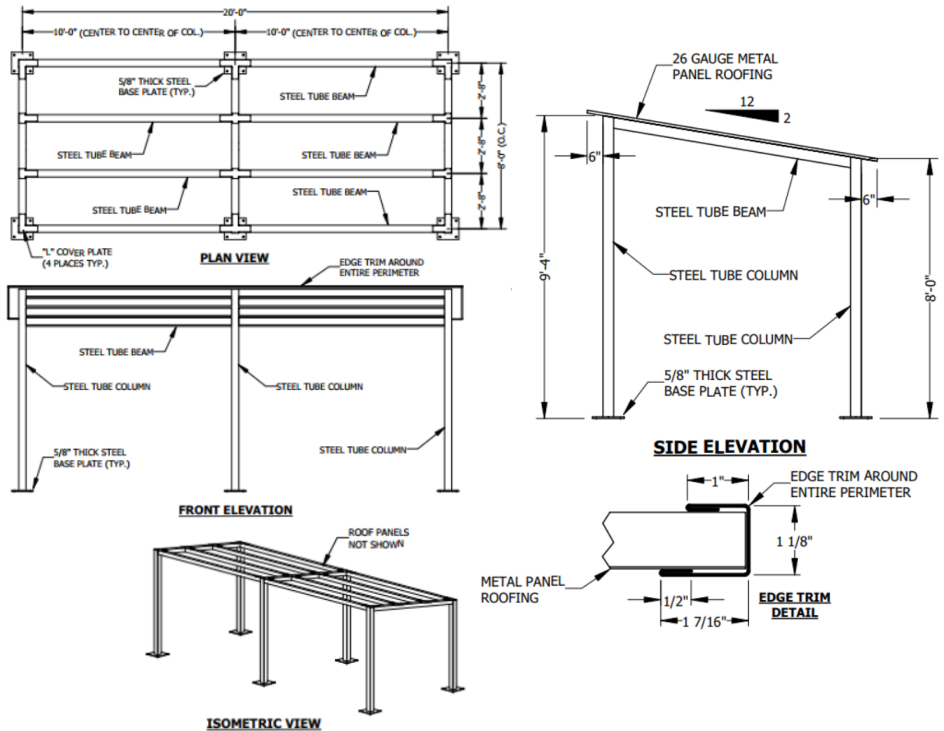
Signed and sworn to before me this _____ day of _____, 20__

_____ My Commission expires _____

Notary Public
(Seal)

Signatures of Named Principals:

Dugouts	Part Numbers
Premium Team Dugouts 8' x 20' - Northern Style	Beacon #120-875-860 Model #ST820N



Features

- These premium dugouts arrive ready to assemble. Prefabricated and pre-engineered with all fasteners concealed within tubing to avoid corrosion and provide better safety.
- Northern U.S. dugouts designed to handle snow loads.
- Optional stamped engineering report for an additional charge
- Please Note: Optional chain-link fencing not included with dugouts - must be provided by others.

Specifications

- 8'D x 20'L x 8'H
- All-steel construction (A500 square structural steel tubing)
- 26-gauge galvanized metal roof panel & steel support columns are powder coated
- Available Colors*:
 - Powder Coated Steel Frame: Almond, Black, Red, Green, Burgundy, Blue, Yellow, Brown or Forest Green
 - Metal Roof: Light Stone, Mocha Tan, Old Town Gray, Pure White, Forest Green, Hawaiian Blue, Barn Red, or Galvalume

* Colors must be decided before manufacturing timeline will begin

Also Available in

- Depths: 5' to 10'
- Lengths: 30', 40', or Custom
- Roof Pitch: 1-12, 2-12, 3-12

PREFABRICATED DUGOUT SPECIFICATIONS

OUR DUGOUT STRUCTURES ARE A ALL STEEL 4X4 PRIMED AND POWDER COATED FRAME WITH 26GA MULTI-RIB METAL ROOFING, EDGE TRIM, AND ALL HARDWARE FOR ASSEMBLY. DESIGNED FOR EASE OF INSTALLATION!



DUGOUT SPECIFICATIONS

1. A500 4X4 SQUARE STRUCTURAL TUBING WITH ELECTORALLY WELDED $\frac{5}{8}$ " THICK 10X10 BASE PLATE.
2. STEEL FRAME MEMBERS SHALL BE BLASTED TO NEAR WHITE METAL, CLEANED WITH AN 8-STAGE PRETREATMENT, AND ZINC RICH PRIMER COATED PRIOR TO BEING FINISHED WITH A POWDER COAT FINISH.
3. POWDER COAT FINISH SHALL BE TGIC ELECTROMAGNETICALLY APPLIED POLYESTER POWDER.
4. ROOFING SHALL BE PRECUT 26GA MULTI-RIB SIDELAP METAL ROOFING-1" SELF DRILLING FASTENER.
5. ROOFING EDGE TRIM SHALL BE 1"X1 $\frac{1}{8}$ " X 1 $\frac{7}{16}$ " J-STYLE TRIM PROVIDED FOR ENTIRE ROOF PERIMETER- $\frac{7}{8}$ " SELF-DRILLING FASTENER COLOR MATCHED.
6. FASTENERS SHALL BE 1" GRADE 5 BOLTS WITH FLAT WASHER AND LOCK NUT.
7. 1"X8" THREADED ROD WILL BE PROVIDED FOR BM-2 TO BM-4 CONNECTIONS ONLY.
8. $\frac{1}{2}$ "X 8 $\frac{1}{2}$ " WEDGE ANCHOR DESIGN IN LIEU OF ANCHOR BOLTS AND TEMPLATES FOR GUARANTEED PERFECT PLACEMENT EVERY TIME.

PREFABRICATED DUGOUT SPECIFICATIONS

LOAD INFORMATION

NORTHERN STYLE DUGOUTS

170MPH WIND SPEED
SSPSF SNOW LOAD
20PSF ROOF LIVE LOAD
DEAD LOAD-SELF WEIGHT

SOUTHERN STYLE DUGOUTS

170MPH WIND SPEED
20PSF ROOF LIVE LOAD
DEAD LOAD-SELF WEIGHT

BUILDING CODES-CURRENT ADOPTED EDITION(FBC-IBC)
DESIGN PURSUANT TO-CURRENT ADOPTED EDITION(FBC-IBC)
RISK FACTOR-CURRENT ADOPTED EDITION(FBC-IBC)-TABLE 1604.5 CATEGORY 1
STRUCTURE DESIGNED IN ACCORDANCE WITH ASCE 7-16 CHAPTERS 26-30
BUILDING CONSTRUCTION TYPE CURRENT ADOPTED EDITION (FBC-IBC)-CHAPTER 6 TYPE IIB
EXPOSE CATEGORY TYPE CURRENT ADOPTED EDITION(FBC-IBC)-1609.4.3 PER SITE
INTERNAL PRESSURE COEFFICIENTS-OPEN

MAINTENANCE

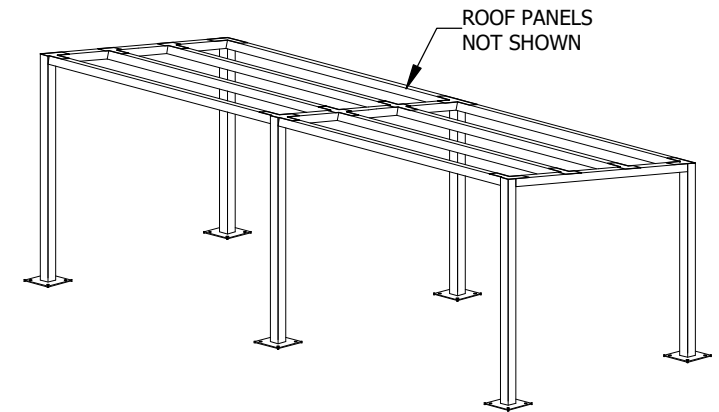
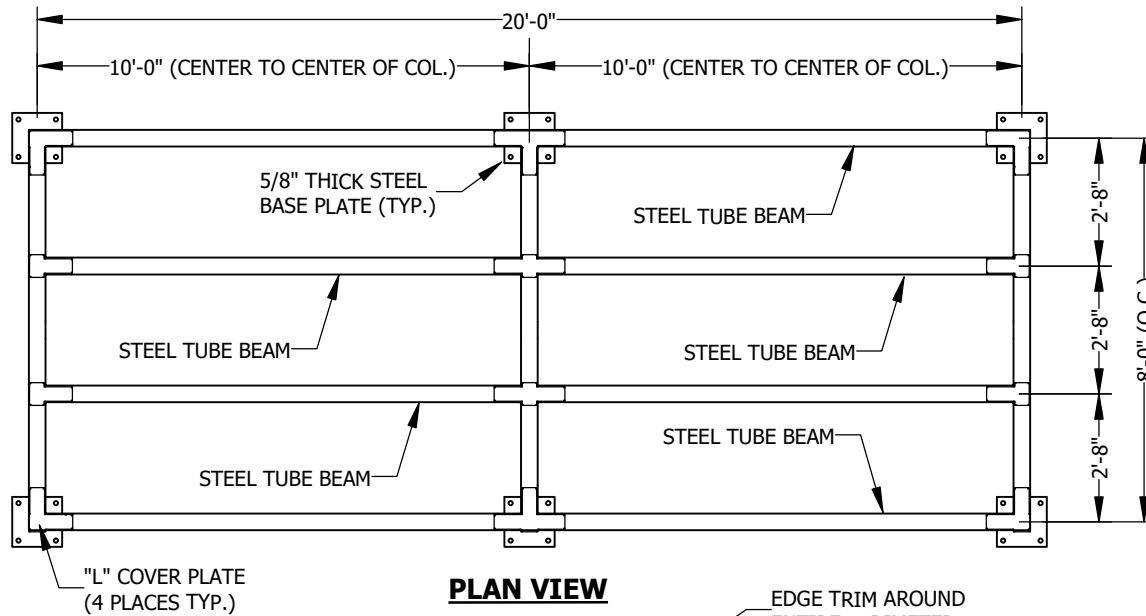
(Routine maintenance will help extend the life of your product.
Keep this and all related documents for future reference)

FASTENERS: Periodically check all fasteners. Tighten any loose fasteners. Missing or damaged fasteners must be replaced immediately.

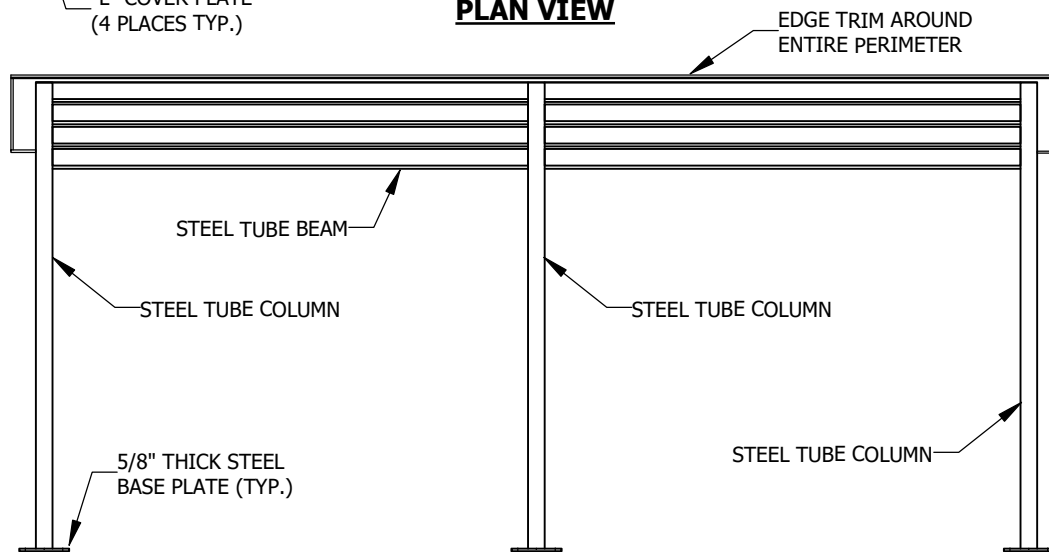
POWDER COATED FINISH: If the surface requires cleaning, a mild household cleaner such as Fantastik®, Formula 409®, or Armor All® may be used. If the coating becomes damaged to the point of exposing the steel, lightly sand the damaged or rusted areas with fine sandpaper. File or sand any sharp points or edges in the metal to prevent users from being possibly cut or scratched. After sanding or filing, remove any debris or contaminants with paint thinner. Paint the repaired area with an exterior grade metal primer and finish coat with a matching, nontoxic color enamel.

Warranty*

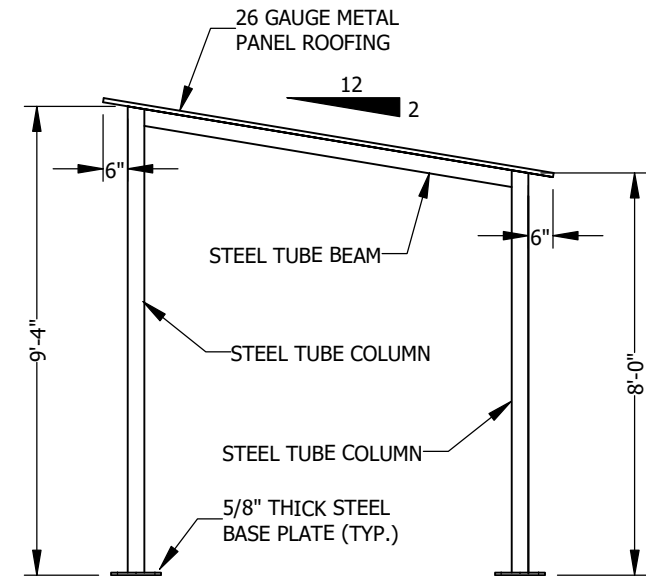
Dugouts shall be guaranteed against defects in workmanship or materials for a period of one year from date of invoice by the manufacturer.



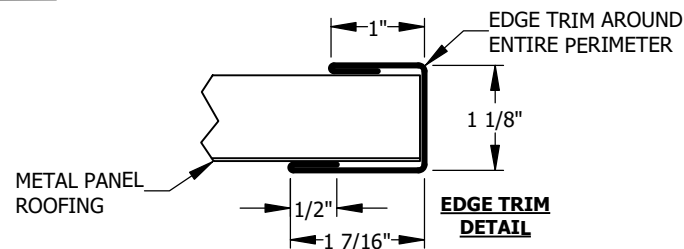
ISOMETRIC VIEW



FRONT ELEVATION



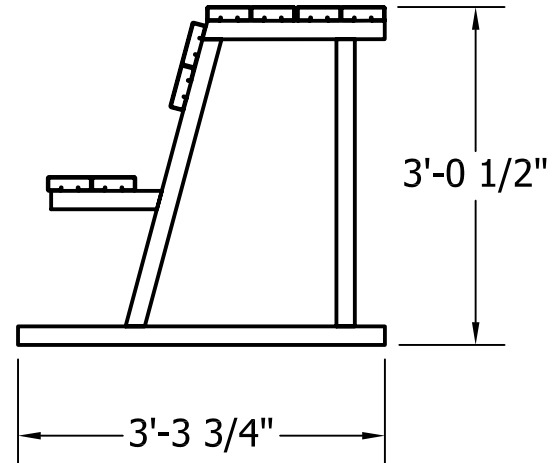
SIDE ELEVATION



Model #ST820N

**BEACON
ATHLETICS**

Team Benches	Part Numbers
Aluminum Player Bench with Shelf 15'L - Painted	Beacon #115-380-180 Model #PBS-20PC



Features

- Durable, portable, rust-resistant aluminum bench with seat back and equipment shelf.
- Planks are supported by a strong galvanized steel understructure.
- Sold as each.

Specifications

- 15'L x 36"H x 37"D
- Seats 10
- 130 lbs
- 10"W anodized aluminum non-skid seat planks and back rests - 19"W non-skid shelf for helmets, gloves and other items
- (3) 2" sq. heavy-duty rust resistant steel legs
- Seat plank is 18" from ground
- Plank and leg colors available*: Red, Navy Blue, Yellow, Gold, Gray, Black, Maroon, Dark Green, Kelly Green, Royal Blue, Orange, and Purple

Also Available In

- Lengths: 7.5', 21' or 27'
- Unpainted

*Specify color when ordering

DESIGN PARAMETERS:	
APPLICABLE CODES: BUILDING CODES: - CURRENT ADOPTED EDITION - (FBC/IBC) METHOD OF DESIGN: DESIGN PURSUANT TO - CURRENT ADOPTED EDITION - (FBC/IBC) BUILDING OCCUPANCY CLASSIFICATION: GROUP U - UTILITY - ACCESSORY BUILDING RISK FACTOR CURRENT ADOPTED EDITION - (FBC/IBC) - TABLE 1604.5): CATEGORY 1 ROOF LIVE LOAD: 20 PSF STRUCTURE DESIGNED IN ACCORDANCE WITH ASCE 7-16 CHAPTERS 26-30 BASIC WIND SPEED CURRENT ADOPTED EDITION - (FBC/IBC) - FIGURE 1609.3) SHALL BE BASED ON UP TO 170 MPH WIND SPEED DESIGN - CALCULATIONS PROVIDED BY GPI ENGINEERING SNOW LOADS: (FBC) 2020 7th EDITION - FIGURE 1607 AND ASCE 7 CHAPTER 7 SHALL BE BASED ON UP TO 55 PSF GROUND SNOW LOAD FOR THIS EXAMPLE AND MUST BE VERIFIED FOR EACH PROPOSED LOCATION PRIOR TO FABRICATION - CALCULATIONS PROVIDED BY GREENMAN - PEDERSON, INC. (GPI EGNINEERING) - ADDRESS: 3423 OLNEY - LAYTONSVILLE RD. SUITE #6 OLNEY, MARYLAND 20832 LIVE LOAD: CURRENT ADOPTED EDITION - (FBC/IBC) - SECTION 1607 SHALL BE BASED ON 20 PSF BUILDING CONSTRUCTION TYPE CURRENT ADOPTED EDITION - (FBC/IBC) - CHAPTER 6) TYPE IIB (UNPROTECTED UNSPRINKLED) EXPOSURE CATEGORY CURRENT ADOPTED EDITION - (FBC/IBC) - 1609.4.3): PER SITE INTERNAL PRESSURE COEFFICIENTS: OPEN HEIGHT = PER SELECTED MODEL FOUNDATION HAS BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF A MIN. OF 2,000 PSF POUNDS PER SQUARE FOOT IN ACCORDANCE WITH PRESUMPTIVE LOAD BEARINGS VALUES.	

STRUCTURAL FORCES:			
ROOF DESIGN	LIVE LOAD		20 PSF
	DEAD LOAD		SELF WEIGHT
	SNOW LOAD		55 PSF EST.
	TOTAL LOAD		75 PSF
ROOF DEFLECTION	L/240 LIVE LOAD		
	L/180 TOTAL LOAD		

ROOF DESIGN WIND PRESSURE (PSF): ASCE 7-16 CHAPTERS 26-30							
Roof 9° -27°	AREA	ZONE 3		ZONE 2		ZONE 1	
	≤9	17.5	-71.6	17.5	-48.4	17.5	-27.8
	9-36	13.9	-60.8	13.9	-39.4	13.9	-26.0
	>36	12.4	-56.2	12.4	-35.6	12.4	-25.2

ROOF FASTENERS	
ZONE 1	#12 X 1" - 4" O.C HWH SD W/ SEALING WASHERS - SEE NOTE 3
ZONE 2	#12 X 1" - 4" O.C HWH SD W/ SEALING WASHERS - SEE NOTE 3
ZONE 3	#12 X 1" - 4" O.C HWH SD W/ SEALING WASHERS - SEE NOTE 3
TRIM FASTENED W/ 1/4 - #14 X 7/8" HWH SD STITCH SCREW W/ SEALING WASHER @ 18" O.C.	

MINIMUM DESIGN LOADS

Components and Cladding		0.25 ≤ h/L ≤ 1.0							
Figure 30.8-1	Net Pressure Coefficient, C _N	Monoslope Free Roofs							
Open Buildings		θ ≤ 45°							
A = 3'-0"									
Roof Angle θ	Effective Wind Area	C _N							
		Clear Wind Flow				Obstructed Wind Flow			
0°	≤ a²	Zone 3		Zone 2		Zone 1		Zone 3	
		2.4	-3.3	1.8	-1.7	1.2	-1.1	1	-3.6
		0.8	-1.8	0.8	-1.8	0.5	-1.2	0.5	-1.2
		1.2	-1.1	1.2	-1.1	1.2	-1.1	0.5	-1.2
7.5°	≤ a²	3.2	-4.2	2.4	-2.1	1.6	-1.4	1.6	-5.1
		1.2	-2.6	1.2	-2.6	0.8	-1.7	0.8	-1.7
		2.4	-2.1	2.4	-2.1	1.6	-1.4	1.2	-2.6
		1.6	-1.4	1.6	-1.4	1.6	-1.4	0.8	-1.7
15°	≤ a²	3.6	-3.8	2.7	-2.9	1.8	-1.9	2.4	-4.2
		1.8	-3.2	1.8	-3.2	1.8	-3.2	1.2	-2.1
		2.7	-2.9	2.7	-2.9	1.8	-1.9	1.2	-2.1
		1.8	-1.9	1.8	-1.9	1.8	-1.9	1.2	-2.1
30°	≤ a²	5.2	-5	3.9	-3.8	2.6	-2.5	3.2	-4.6
		3.9	-3.8	3.9	-3.8	2.6	-2.5	2.4	-3.5
		2.6	-2.5	2.6	-2.5	2.6	-2.5	1.6	-2.3
		5.2	-4.6	3.9	-3.5	2.6	-2.3	4.2	-3.8
45°	≤ a²	3.9	-3.5	3.9	-3.5	2.6	-2.3	3.2	-2.9
		2.6	-2.3	2.6	-2.3	2.6	-2.3	2.1	-1.9
		2.6	-2.3	2.6	-2.3	2.6	-2.3	2.1	-1.9
		2.6	-2.3	2.6	-2.3	2.6	-2.3	2.1	-1.9
Notes: 1. C _N denotes net pressures (contributions from top and bottom surfaces). 2. Clear wind flow denotes relatively unobstructed wind flow with blockage less than or equal to 50%. Obstructed wind flow denotes objects below roof inhibiting wind flow (>50% blockage). 3. For values of θ other than those shown, linear interpolation is permitted. 4. Plus and minus signs signify pressures acting towards and away from the top roof surface, respectively. 5. Components and cladding elements shall be designed for positive and negative pressure coefficients shown. 6. Notation: a : 10% of least horizontal dimension or 0.4h, whichever is smaller but not less than 4% of least horizontal dimension or 3 ft. (0.9 m) h : mean roof height, ft. (m) L : horizontal dimension of building, measured in along wind direction, ft. (m) θ : angle of plane of roof from horizontal, degrees									

MASTER DRAWINGS FOR: NEW DUGOUTS (NORTHERN CLIMATE)

INDEX	
GENERAL CONDITIONS A100 GENERAL NOTES & SCHEDULES	
ARCHITECTURAL PLANS A101 PLAN VIEW, SECTIONS/DETAILS & ELEVATION A102 TYPICAL SLAB PLAN VIEW & SECTIONS A103 ALTERNATE SLAB PLAN VIEW & SECTIONS	

FASTENER SCHEDULE				
BOLT SIZE	LENGTH	WASHERS	QUANTITY	REMARKS
1/2"Ø	8-1/2"	YES	AS REQ'D	STEEL PLATE TO CONCRETE FOOTING
1"Ø	2"	YES	AS REQ'D	BEAMS TO COLUMN CONNECTION

COMPONENT SCHEDULE - FOR BAY SPACING UP TO 10'-0"					
ITEM	THICKNESS	SIZE	MAX LENGTH	FASTENERS	REMARKS
COL. 1	1/8"	4" X 4"	11'-0"	SHOP WELD STEEL BASE	
COL. 2	1/8"	4" X 4"	11'-0"	SHOP WELD STEEL BASE	
BM-1	1/8"	4" X 4"	10'-0"	1" DIA. X 2" (2) REQUIRED	FRONT & REAR BEAM
BM-2	1/8"	4" X 4"	10'-0"	1" DIA. X 2" (2) REQUIRED	CENTER CROSS BEAM
BM-3	1/8"	4" X 4"	9'-0"	1" DIA. X 2" (2) REQUIRED	
BM-3	1/8"	4" X 4"	10'-0"	1" DIA. X 2" (2) REQUIRED	
BM-4	1/8"	4" X 4"	7'-0"	1" DIA. X 2" (2) REQUIRED	
BM-4	1/8"	4" X 4"	8'-0"	1" DIA. X 2" (2) REQUIRED	
BM-4	3/16"	4" X 4"	9'-0"	1" DIA. X 2" (2) REQUIRED	
BM-4	1/4"	4" X 4"	10'-0"	1" DIA. X 2" (2) REQUIRED	
BASE PLATE	5/8"	10" X 10"	N/A	(4)-1/2"Ø X 8-1/2" WEDGE ANCHORS	ANCHOR TO CONCRETE FOOTING
Ⓣ1 SQUARE	22"	24" X 24"	N/A	SEE BASE PLATE ON SHT A101	(4) #5Ø ST REINF. RODS EA. WAY
Ⓣ2 SQUARE	22"	32" X 32"	N/A	SEE BASE PLATE ON SHT A101	(4) #5Ø ST REINF. RODS EA. WAY TOP & BOTTOM
Ⓣ1 ROUND	16"	36" DIA.	N/A	SEE BASE PLATE ON SHT A101	(4) #5Ø ST REINF. RODS EA. WAY
Ⓣ2 ROUND	36"	36" DIA.	N/A	SEE BASE PLATE ON SHT A101	(4) #5Ø ST REINF. RODS EA. WAY TOP & BOTTOM



NOTES:

- SEE DETAILS FOR ATTACHMENT OF EACH SHOP WELDED BEAM CONNECTION.
- FOUNDATION AND REINFORCING SIZES ARE SUGGESTIONS ONLY. CONTRACTOR MUST VERIFY WITH LOCAL BUILDING CODE REQUIREMENTS PRIOR TO CONSTRUCTION.
- IF T-11 OR PLYWOOD SHEATHING IS USED; USE ROOF FASTENERS #12 X 1-1/2" - 4" O.C. HWH SD METAL SCREWS W/ SEALING WASHERS
- NOTE: RECOMMEND A MINIMUM OF 12" FROM CENTER OF BASE PLATE TO EDGE OF SLAB ON ALL SIDES

CONCRETE NOTES:

- FOOTINGS SHALL BEAR UPON UNDISTURBED TREATED SOIL OR SOIL COMPACTED TO AT LEAST 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) FOR DEPTH OF AT LEAST THREE (3) FEET BELOW THE BOTTOM OF THE FOOTING.
- REINFORCING STEEL SHALL BE ASTM-A-615 GRADE 60 DEFORMED NEW BULLIT STEEL CONFORMING TO ACI-360, ACI-301, ACI-315, ACI-318 AND CRSI MANUAL OF STANDARD PRACTICE LATEST EDITIONS. MINIMUM LAP SPLICE SHALL BE 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- ALL CONTINUOUS VERTICAL AND HORIZONTAL REINFORCING STEEL IN FOOTINGS. SHALL BE SPLICED A MINIMUM OF 48 BAR DIAMETERS OR 30" WHICHEVER IS GREATER.
- CONCRETE COVER OF REINFORCING STEEL SHALL BE AS FOLLOWS:
A. FOOTINGS: 3" BOTTOM AND SIDES, 2" TOP
B. BEAMS: 1-1/2" BOTTOM, SIDES AND TOP
C. COLUMNS: 1-1/2"
D. SLABS ON GRADE" 2" BOTTOM, 1" TOP.
E. OTHERS: PER ACTUAL
- FOUNDATION: 3,500 PSI @ 28 DAYS, TYPE II CONCRETE, 6 BAG. (MIN.) STONE FILL.
- FLOOR SLAB: 3,500 PSI @ 28 DAYS (4" THICK CONCRETE ON 6 MIL POLYETHYLENE VAPOR BARRIER ON 4" STONE FILL) MAX SLUMP = 5".
TYPE II CONCRETE 6 BAG. (A) PROVIDE CUT JOINTS @ 100 SQ. FT. MAX IN SLABS
- ALL CONCRETE SLABS ON GRADE SHALL BE THE THICKNESS INDICATED ON THE DRAWINGS, OVER A 6 MIL POLYETHYLENE VAPOR BARRIER. SUCH SLABS SHALL BE REINFORCED WITH 6X6 - W2.9/W2.9 WWM LAPPED 8" AT EDGES AND ENDS OR FIBER MESH REINFORCING.
- FILL UNDER CONCRETE SLAB WITH 4" (MIN.) FREE DRAINING AGGREGATE STONE FILL OVER COMPACTED SUB GRADE. FILL SHALL BE COMPACTED TO A DENSITY OF AT LEAST 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D1557.)
- WELDED WIRE MESH SHALL CONFORM TO ASTM-A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACE DETAILS OF ACI STANDARDS AND SPECIFICATIONS MINIMUM LAP SHALL BE ONE SPACE PLUS TWO (2) INCHES OR FIBERMESH.
- ALL TRANSITIONS BETWEEN NEW AND EXISTING CONCRETE SHALL HAVE 1/2" REFLEX RUBBER EXPANSION JOINTS OR EQUAL.

SPECIFICATIONS:

STEEL DUGOUT FRAME:

- HOLLOW STRUCTURAL SECTIONS (HSS) STEEL FRAMING SHALL BE FABRICATED FROM STEEL CONFORMING WITH ASTM A 500, GR. B.
Fy = 46ksi
- STEEL PLATES SHALL CONFORM WITH ASTM A36. Fy = 36ksi
- FRAMES, BASE, AND WELDS ARE FABRICATED AND POWDER COATED AT THE FACTORY. NO WELDING IS DONE IN THE FIELD.
- STEEL FRAME MEMBERS SHALL BE BLASTED TO NEAR WHITE METAL., CLEANED WITH AN 8-STAGE PRETREATMENT SYSTEM, AND ZINC RICH PRIMER COATED PRIOR TO THE FINISHED POWDER COAT PROCESS. POWDER COAT FINISH SHALL BE TGIC ELECTROSTATICALLY APPLIED POLYESTER POWDER.
- FASTENERS SHALL BE 1" DIAMETER GRADE 5 BOLTS WITH FLAT WASHERS AND LOCKNUTS. BOLTS MEET ASME B18.2.1 WITH A MINIMUM TENSILE STRENGTH OF 120,000 PSI. ALL FASTENERS SHALL BE CONCEALED INSIDE THE TUBING.
- ANCHORS SHALL BE 1/2" DIAMETER X 8-1/2" ZINC PLATED CONCRETE WEDGE ANCHORS.
- OVERALL DIMENSIONS "SEE ATTACHED DRAWING"

METAL ROOF PANELS:

GAUGE: ROOFING SHALL BE PRECUT 26 GA. MULTI RIB METAL ROOF PANEL UNLESS OTHERWISE NOTED

FASTENERS: FASTENERS SHALL BE COLOR MATCHED TO METAL ROOF COLOR AS SELECTED BY OWNER AND AS INDICATED ON PRODUCT APPROVAL

WARRANTY:

DUGOUTS SHALL BE GUARANTEED AGAINST DEFECTS IN WORKMANSHIP OR MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF INVOICE BY MANUFACTURER.

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MODEL#: _____

NOTE:
REFER TO MODEL # ABOVE AND SEE ATTACHED CORRESPONDING DRAWING FOR ACTUAL DUGOUT FRAME DETAILS AND DIMENSIONS

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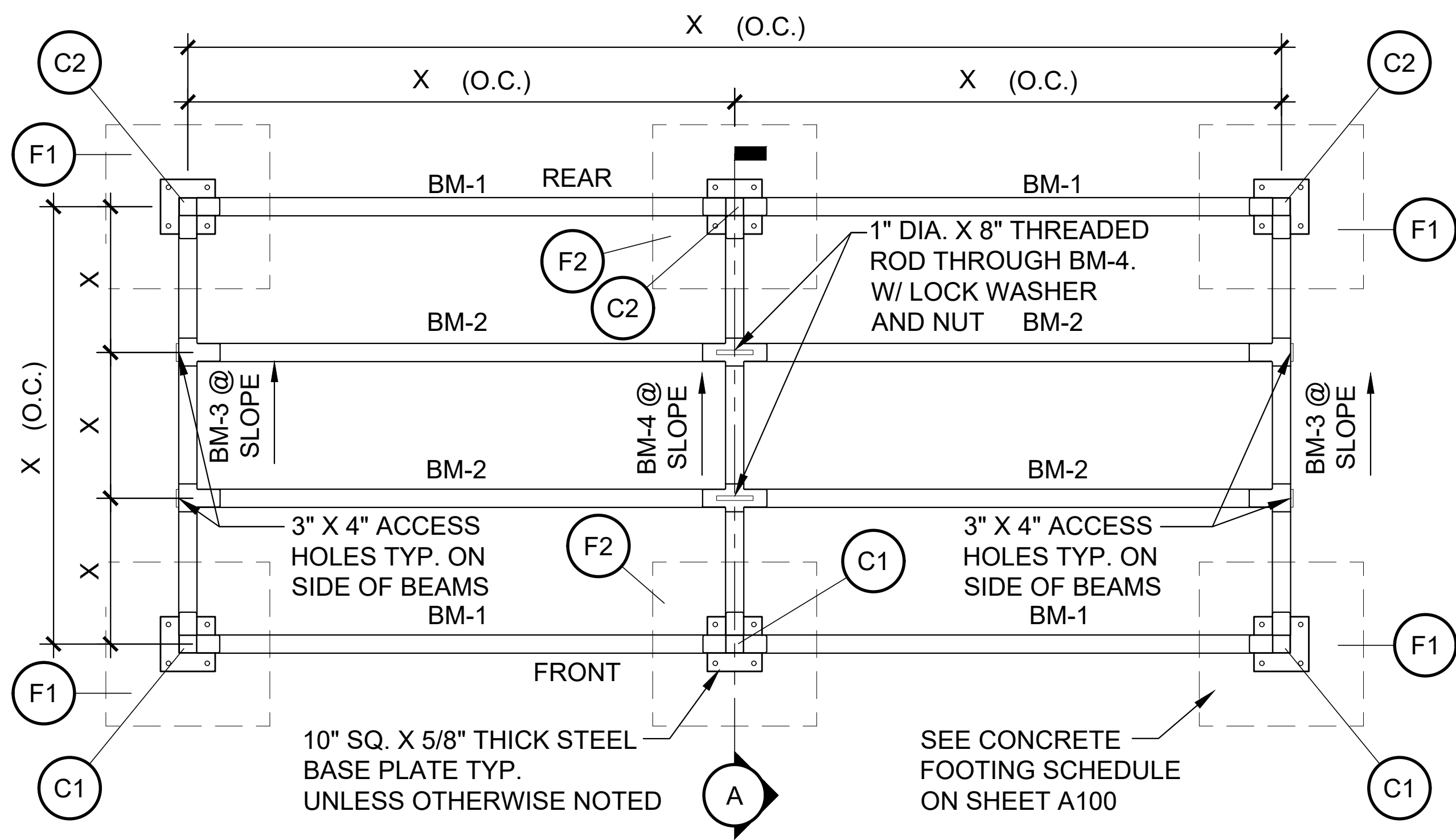
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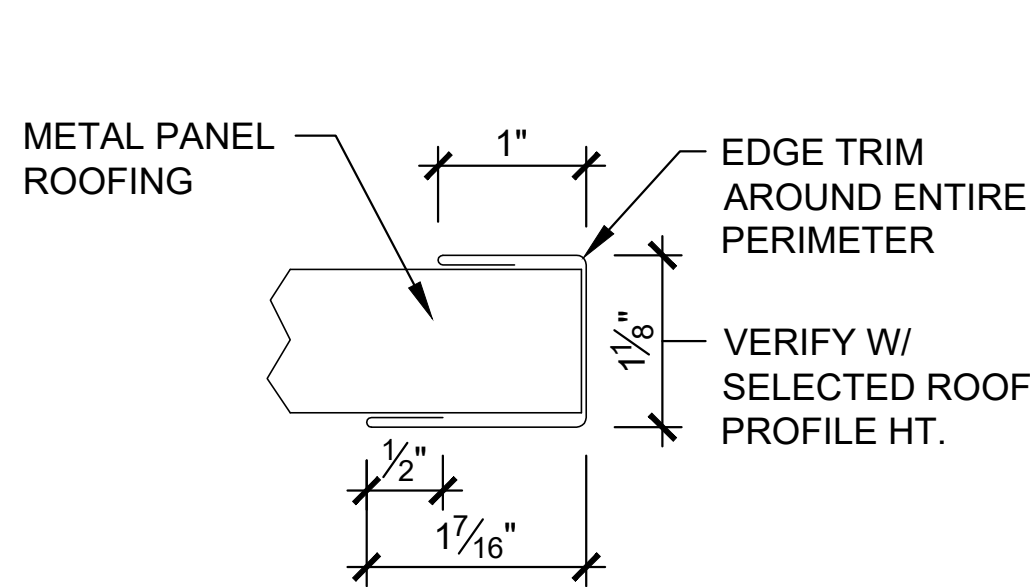
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R A A	2439
CHECKED	DATE
R A A	10-03-24

A100

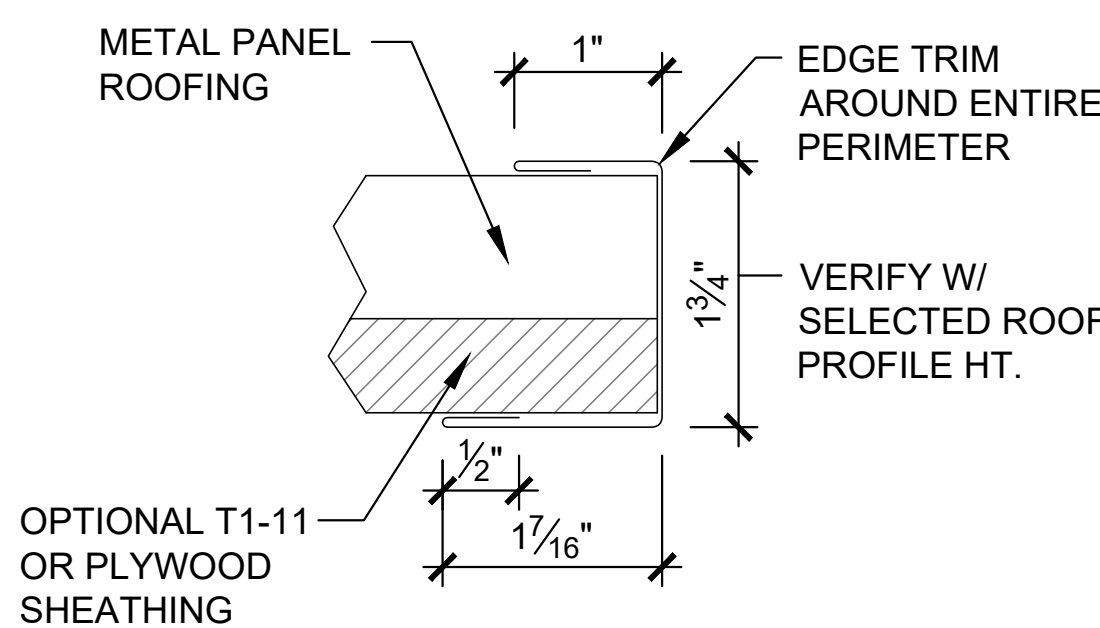
SHEET NO.



COLUMN & BEAM PLAN
SCALE: 1/2" = 1'-0"

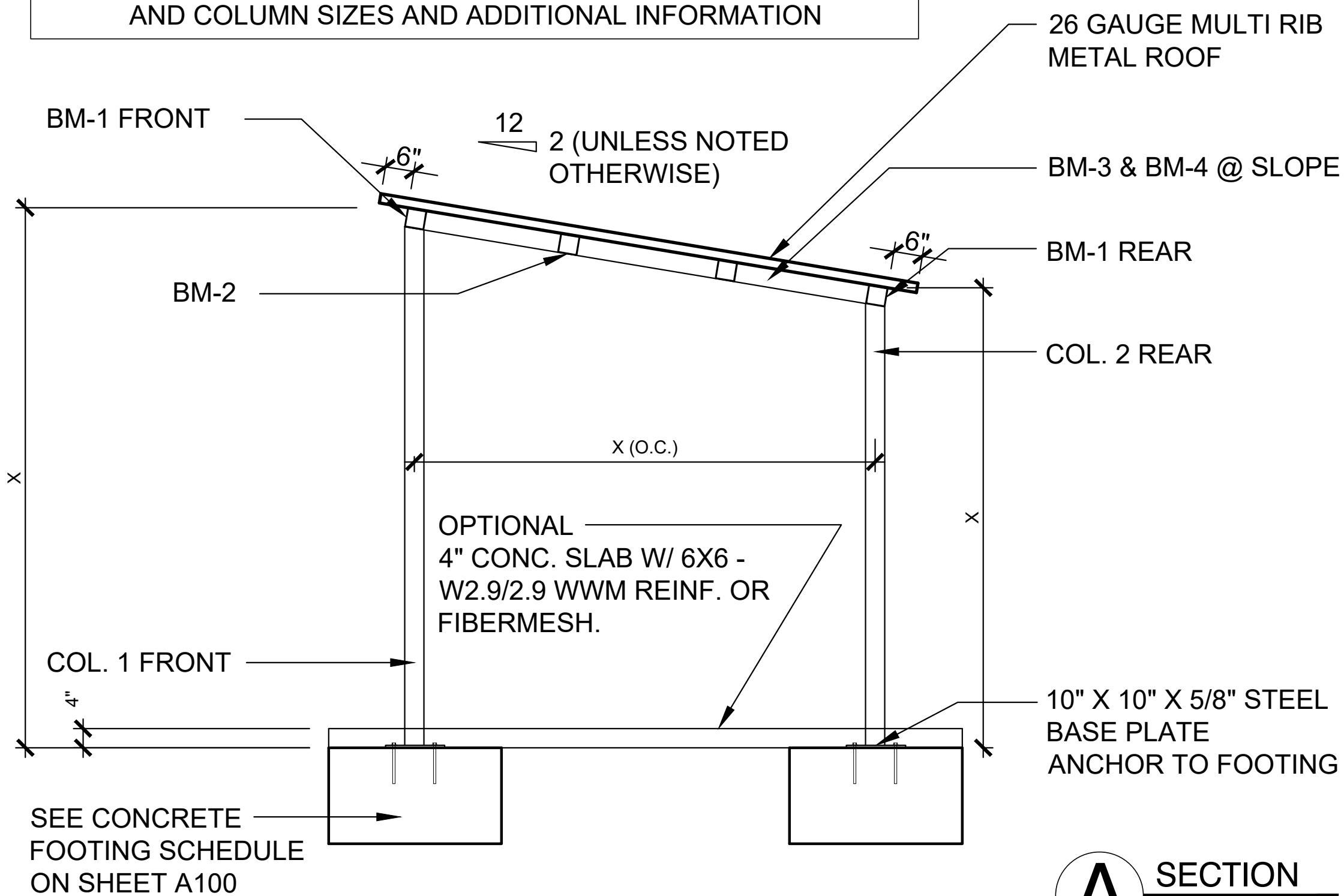


TYPICAL EDGE TRIM DETAIL
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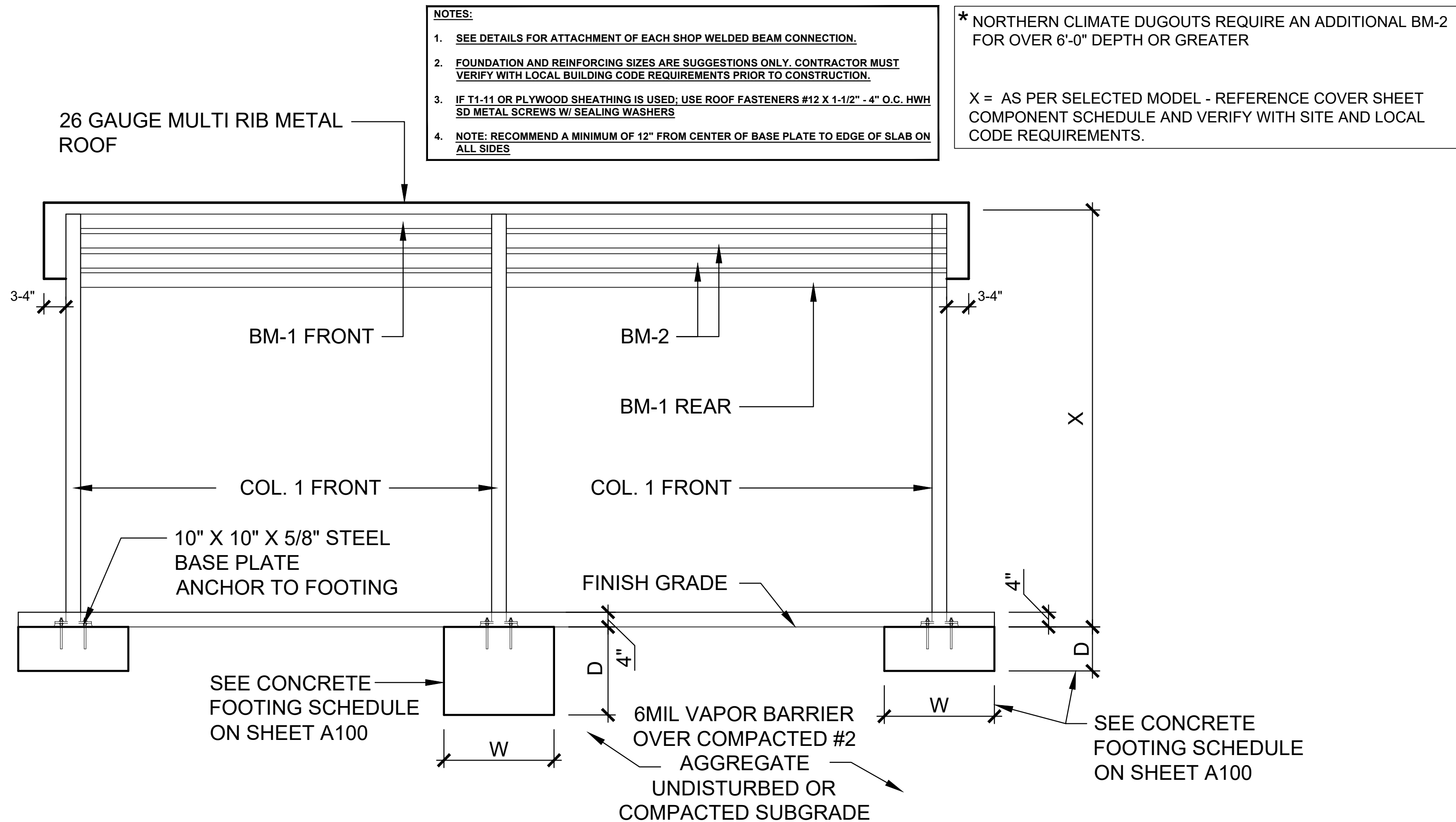


OPTIONAL EDGE TRIM DETAIL
SCALE: NTS

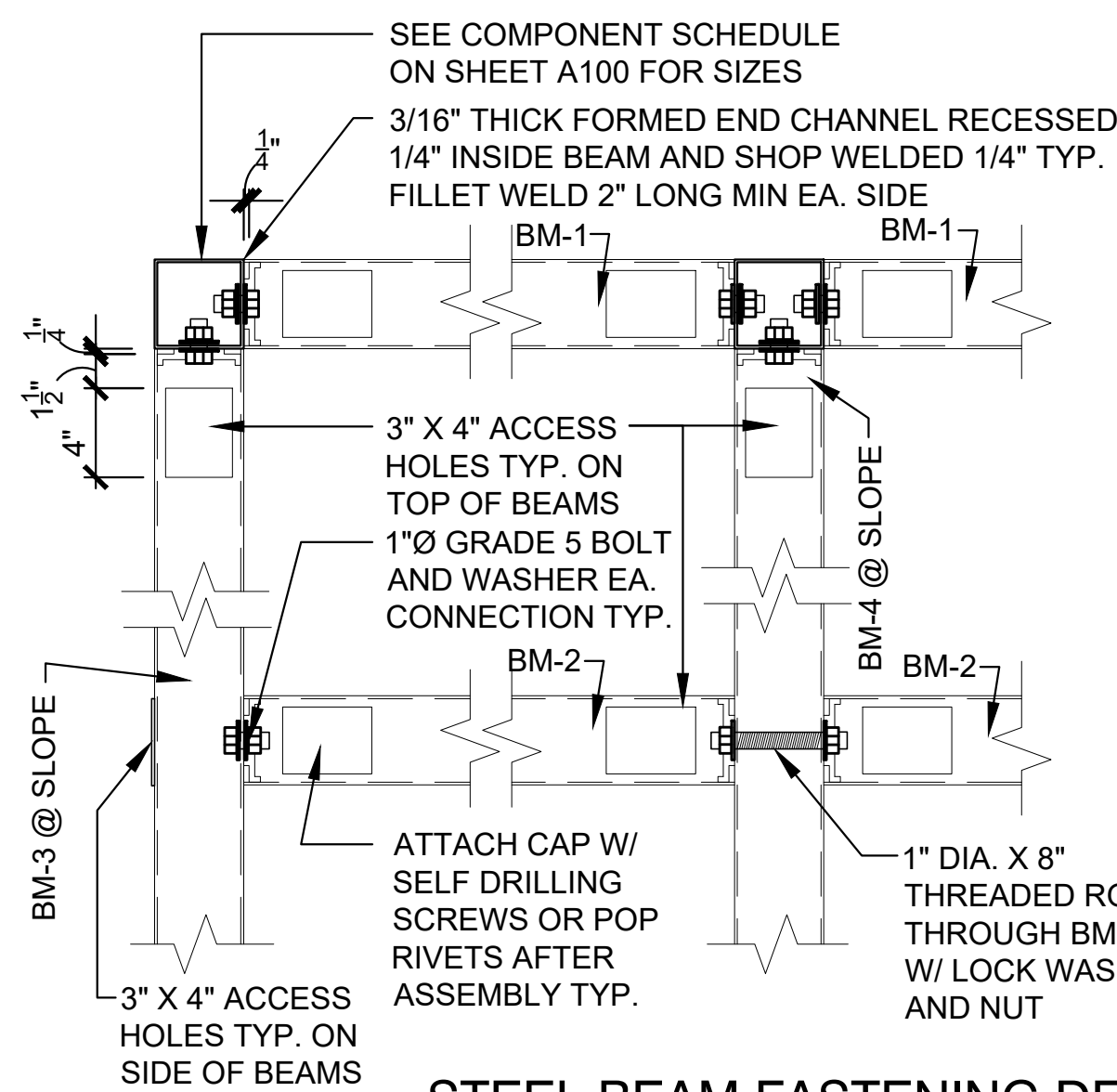
NOTE: SEE COMPONENT SCHEDULE ON SHEET A100 FOR BEAM AND COLUMN SIZES AND ADDITIONAL INFORMATION



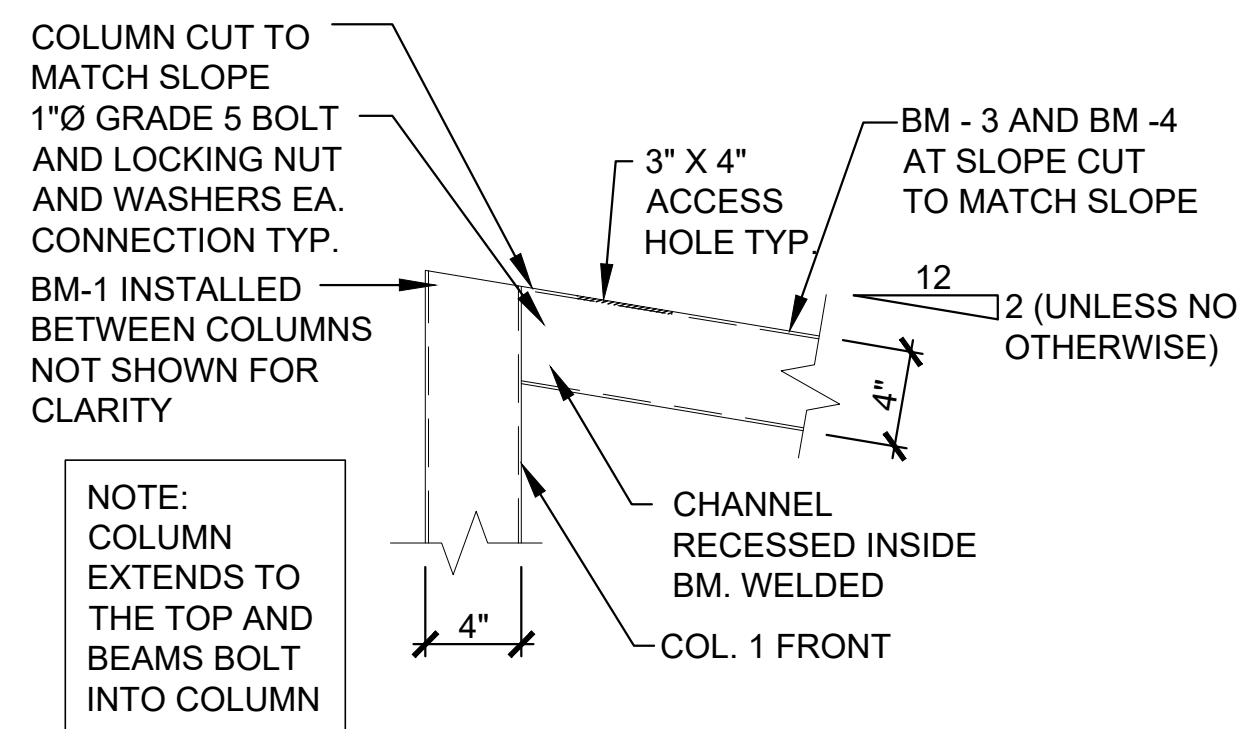
A SECTION
SCALE: 1/2" = 1'-0"



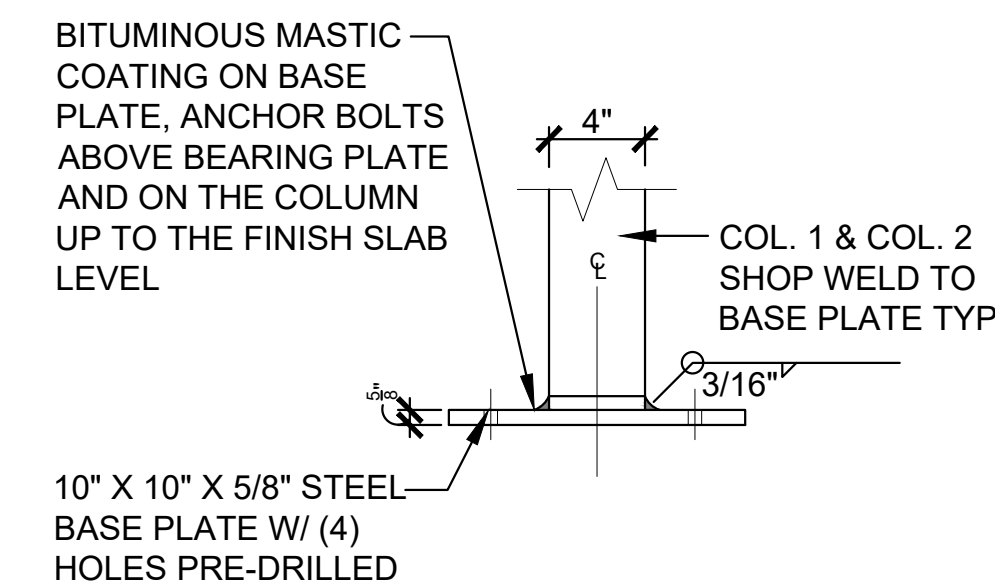
FRONT ELEVATION
SCALE: 1/2" = 1'-0"



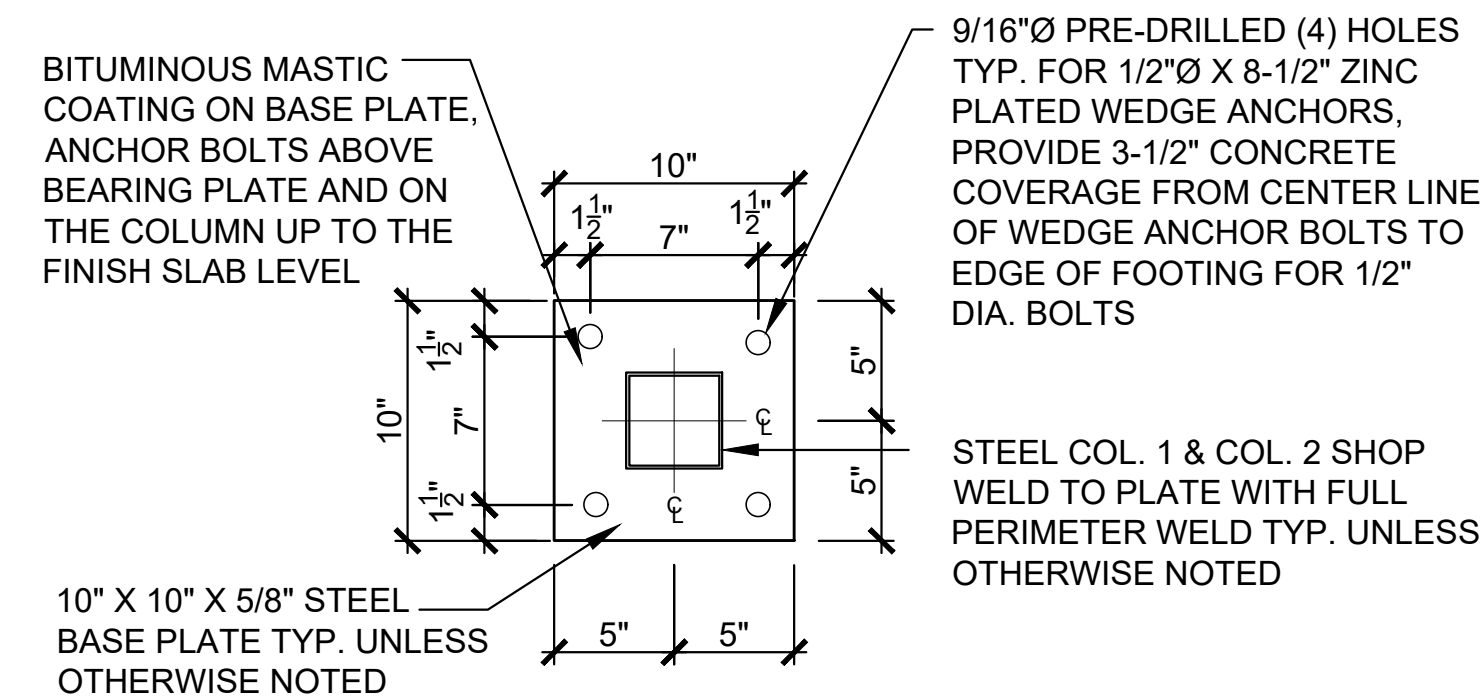
STEEL BEAM FASTENING DETAIL
SCALE: 1-1/2" = 1'-0"



BEAM TO COLUMN CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"



BASE PLATE DETAIL SIDE VIEW
SCALE: 1-1/2" = 1'-0"



BASE PLATE DETAIL PLAN VIEW
SCALE: 1-1/2" = 1'-0"

- NOTES:**
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* NORTHERN CLIMATE DUGOUTS REQUIRE AN ADDITIONAL BM-2 FOR OVER 6'-0" DEPTH OR GREATER

X = AS PER SELECTED MODEL - REFERENCE COVER SHEET COMPONENT SCHEDULE AND VERIFY WITH SITE AND LOCAL CODE REQUIREMENTS.

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PROJECT NO.: 2439
CHECKED: R A A
DATE: 10-03-24

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NOTE:
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CORRESPONDING DRAWING FOR ACTUAL DUGOUT FRAME
DETAILS AND DIMENSIONS

A101
SHEET NO.

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- SQUARE COLUMN SLAB PLAN VIEW**
SCALE: 1/2" = 1'-0"

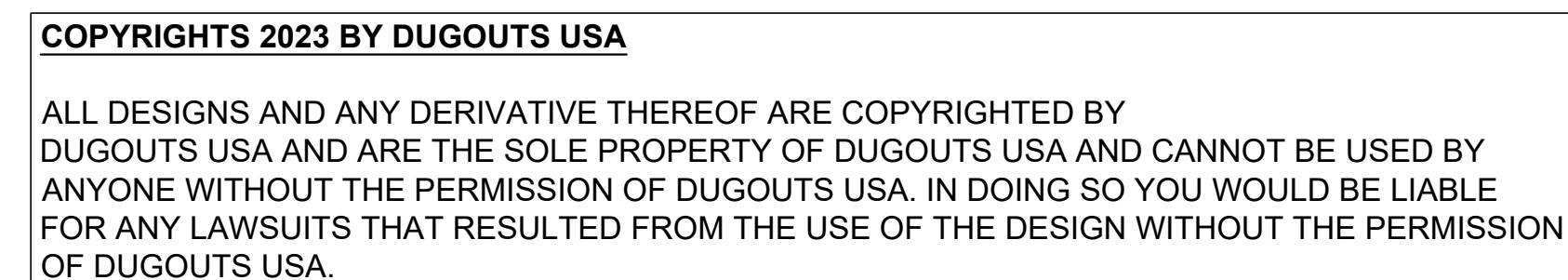
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- X = AS PER SELECTED MODEL - REFERENCE COVER SHEET
COMPONENT SCHEDULE AND VERIFY WITH SITE AND LOCAL
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DETAILS AND DIMENSIONS

A103
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