

BUILDING CODE STRUCTURAL SUMMARY INFORMATION

PROJECT: 28 x 36 Raleigh Shelter (PART A)
LOCATION: Meriden, CT, U.S.A.
BLDG CODE: Connecticut State Building Code (IBC 2015 Edition)
BLDG RISK CATEGORY: II

Roof Dead Load 12 psf
Roof Live Load 30 psf

SNOW DESIGN DATA

Ground Snow Load, P_g 30.0 psf
Flat Roof Snow Load, P_f 25.2 psf
Snow Exposure Factor, C_e 1.0
Snow Importance Factor, I_s 1.0
Snow Thermal Factor, C_t 1.2
Sloped Roof Snow Load, P_s 25.2 psf



WIND DESIGN DATA

Ultimate Design Wind Speed (3-sec gust), V_{ult} 125 mph
Nominal Design Wind Speed (3-sec gust), V_{asd} 97 mph
Building Risk Category II
Wind Exposure Category C
Internal Pressure Coefficient 0.0
Comp & Cladding Wind Pressures (ASD Level) 32.4 psf -32.4 psf
Wind Base Shears (ASD Level) V_{xx} 2.7 kips V_{yy} 3.9 kips

SEISMIC DESIGN DATA

Seismic Importance Factor, I_e 1.00
Short Period Spectral Response Acceleration (S_s from maps) 0.183
1-Sec Period Spectral Response Acceleration (S_1 from maps) 0.063
Seismic Site Class D
Design Short Period Spectral Response Acceleration, S_{ds} 0.195
Design 1-Sec Period Spectral Response Acceleration, S_{d1} 0.101
Seismic Design Category B
Basic Seismic Resisting System CANTILEVERED COLUMN SYSTEM
Basic Seismic Force Resisting System TIMBER FRAMES
Response Modification Factor, R 1.5
Seismic Response Coefficient (C_s) 0.130
Seismic Base Shear (ASD Level) 1.1 kips
Analysis Procedure Used Equivalent Lateral Force

SOIL DATA

Allowable Soil Bearing Pressure (Assumed) 2000 psf
Allowable Soil Lateral Pressure (Assumed) 200 psf

BUILDING CODE STRUCTURAL SUMMARY INFORMATION

PROJECT: 44 x 84 Raleigh Shelter (PART B)
LOCATION: Meriden, CT, U.S.A.
BLDG CODE: Connecticut State Building Code (IBC 2015 Edition)
BLDG RISK CATEGORY: II

Roof Dead Load				12 psf
Roof Live Load				30 psf
SNOW DESIGN DATA				
Ground Snow Load, Pg				30 psf
Flat Roof Snow Load, Pf				25.2 psf
Snow Exposure Factor, Ce				1.0
Snow Importance Factor, Is				1.00
Snow Thermal Factor, Ct				1.2
Sloped Roof Snow Load, Ps				25.2 psf
WIND DESIGN DATA				
Ultimate Design Wind Speed (3-sec gust), Vult				125 mph
Nominal Design Wind Speed (3-sec gust), Vasd				97 mph
Building Risk Category				II
Wind Exposure Category				C
Internal Pressure Coefficient				0.0
Comp & Cladding Wind Pressures (ASD Level)		32.4 psf		-32.4 psf
Wind Base Shears (ASD Level)	Vxx	4.8 kips	Vyy	12.8 kips
SEISMIC DESIGN DATA				
Seismic Importance Factor, Ie				1.00
Short Period Spectral Response Acceleration (Ss from maps)				0.183
1-Sec Period Spectral Response Acceleration (S1 from maps)				0.063
Seismic Site Class				D
Design Short Period Spectral Response Acceleration, Sds				0.195
Design 1-Sec Period Spectral Response Acceleration, Sd1				0.101
Seismic Design Category				B
Basic Seismic Resisting System		CANTILEVERED COLUMN SYSTEM		
Basic Seismic Force Resisting System		TIMBER FRAMES		
Response Modification Factor, R				1.5
Seismic Response Coefficient (Cs)				0.130
Seismic Base Shear (ASD Level)				4.0 kips
Analysis Procedure Used				Equivalent Lateral Force
SOIL DATA				
Allowable Soil Bearing Pressure (Assumed)				2000 psf
Allowable Soil Lateral Pressure (Assumed)				200 psf



PART & MATERIAL LIST

WOOD MATERIAL LIST										
NO. REQ'D	DESCRIPTION	MARK	SIZE	LENGTH	NOM. LAMS	LUMBER	CAMBER	DETAIL ON SHEET	NOTES	LOAD 
20	BEAM	B-2B	5" WIDE	SEE DETAIL	2"	24F-V3	NONE	I		
40	COLUMN	C-1	6¾" x 8¾"	7'-11 1/2"	2"	AYC (L3)	NONE	----	I	
16	FASCIA	F-1	2 x 8 NOM.	10'-0" UNT'D.	----	AYC (L3)	NONE	----	2	
24	FASCIA	F-2	2 x 8 NOM.	16'-0" UNT'D.	----	AYC (L3)	NONE	----	2	

SHOP NOTES:

#1 - FINISH FOUR SIDES.

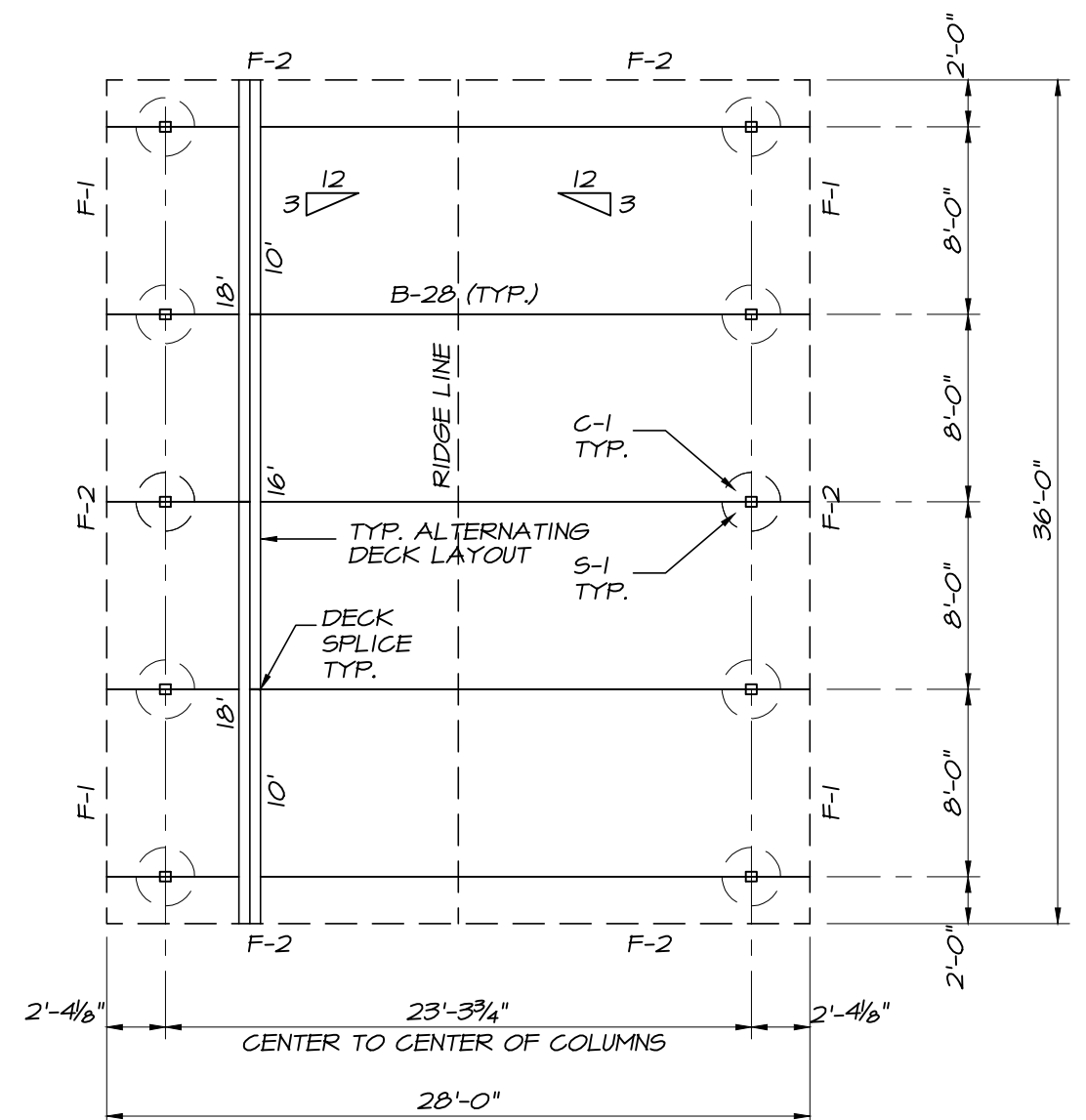
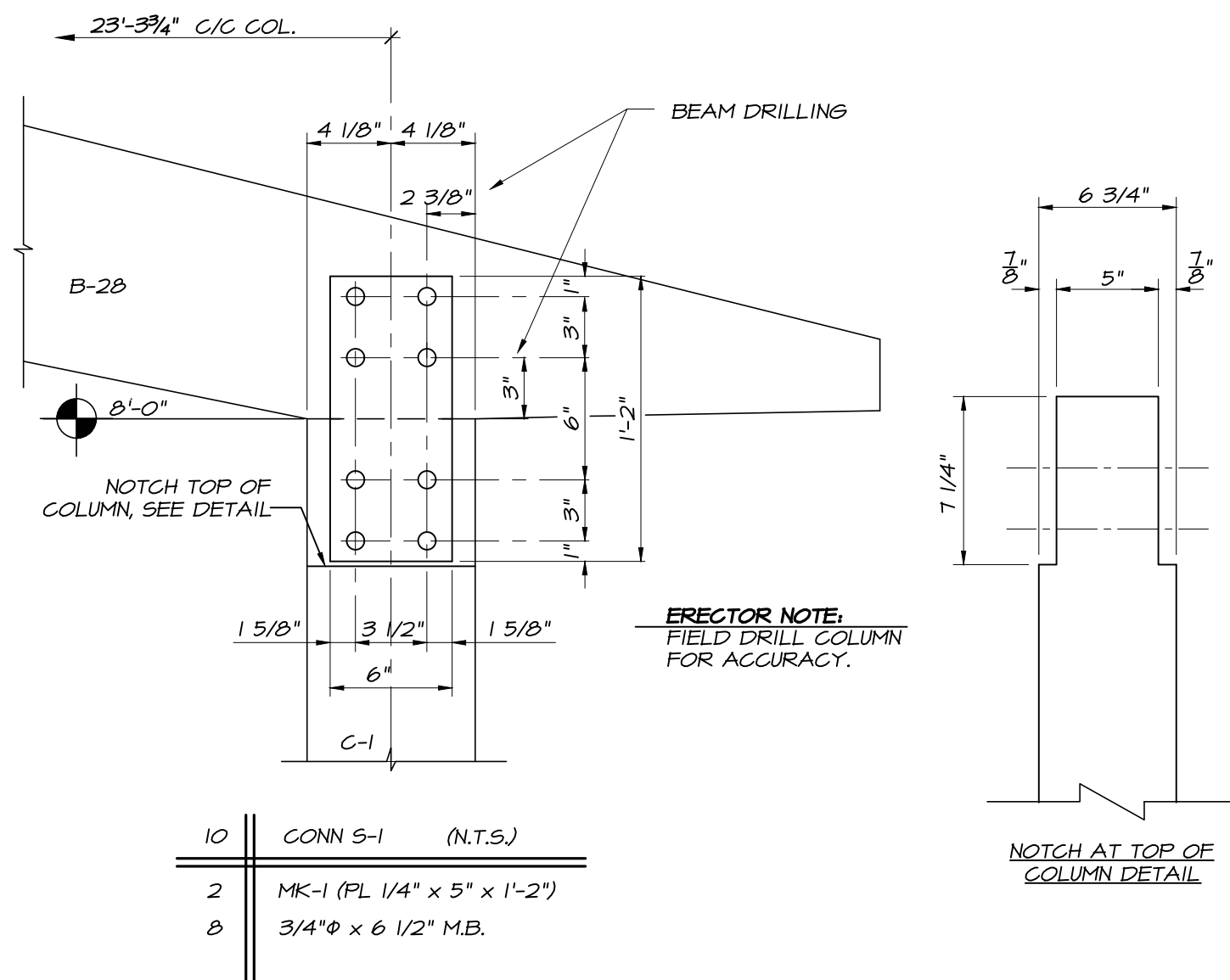
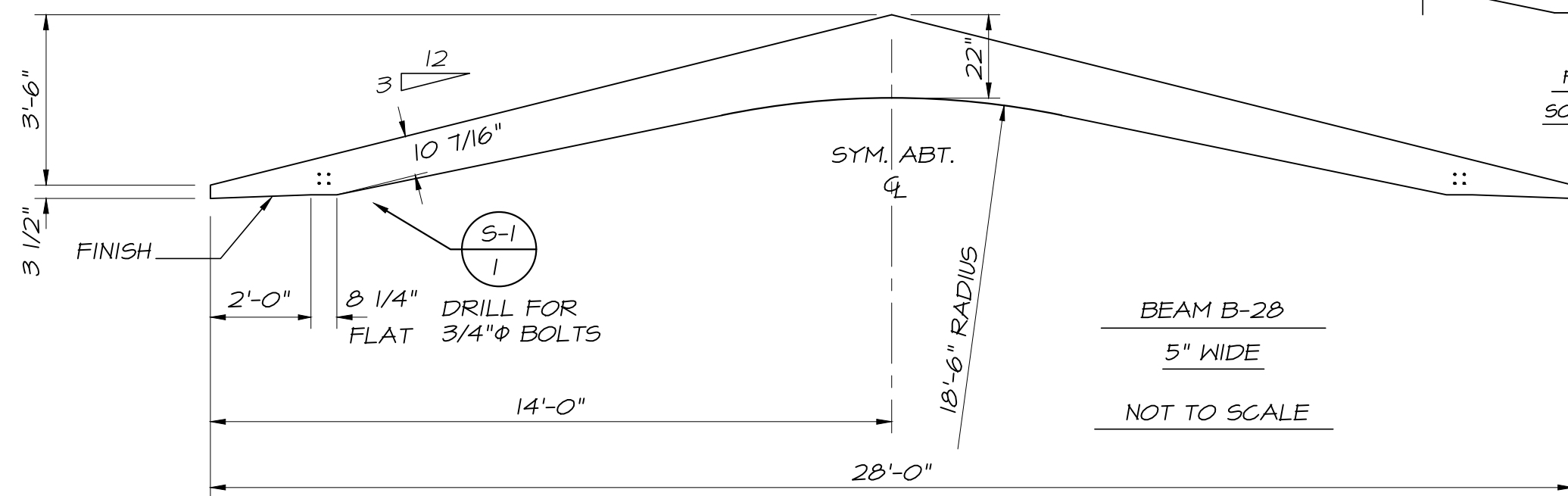
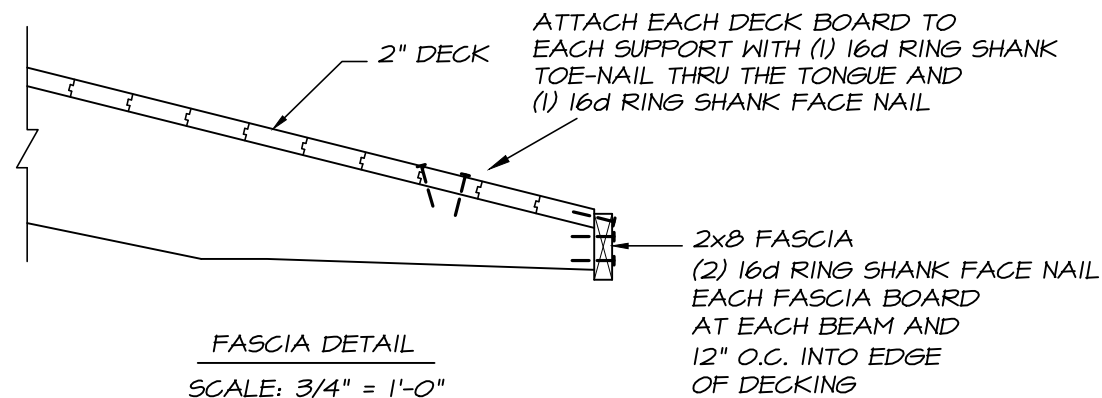
#2 - PRESSURE TREATED PER AITC 109, ABOVE GROUND USE.

HARDWARE SCHEDULE							
MARK	CONN.	NO.	DESCRIPTION	DETAIL ON SHEET	NOTES	LOAD	
MK-1	S-1	80	PL 1/4" x 6" x 1'-2"	1	A	✓	
		320	3/4"Φ x 6 1/2" M.B.		A		
MK-2	S-2	40	BASE SHOE	2	A		
		80	3/4"Φ x 8 1/2" M.B.		A		

STEEL NOTES

A) HOT-DIP GALVANIZED

****QUANTITIES SHOWN ARE FOR 4 SHELTERS****



FRAMING PLAN

SCALE: N.T.S.

NOTES FOR GENERAL CONTRACTOR / OWNER:

1. PLEASE REVIEW THESE DRAWINGS CAREFULLY!!
2. IN EVENT OF ERROR, DEFECTIVE MATERIAL, AND/OR WORKMANSHIP, PLEASE NOTIFY THE NEAREST ENWOOD SALES OFFICE IMMEDIATELY. ENWOOD RESERVES THE RIGHT TO INVESTIGATE AND CORRECT ALL ALLEGED ERRORS AND DEFECTS.
3. ALL MEMBERS SHALL BE PROPERLY BRACED UNTIL THE STRUCTURAL ROOF SYSTEM HAS BEEN COMPLETED.
4. THE FOUNDATION DETAIL SHOWN IS FOR REFERENCE ONLY. ALL FOUNDATIONS BY GENERAL CONTRACTOR.
5. SLAB TURN DOWN, THICKNESS, COMP STRENGTH AND REINFORCING IS BY THE GENERAL CONTRACTOR.
6. TO REDUCE RISK OF CRACKING IN ANY CONCRETE SLAB, RECOMMENDED 0.5" EXPANSION JOINT AROUND FOOTINGS TO ISOLATE FROM SLAB WORK.
7. BRITTLE BRICK WRAP OR ARCH FINISHES BY OTHERS ARE NOT SHOWN AND ARE NOT RECOMMENDED FOR FLEXIBLE WOOD STRUCTURES AS BRICK AND FINISHES MAY CRACK.

A.I.T.C. CERTIFICATE & MARKS

Material:
Stress Graded, Kiln Dried
Southern Yellow Pine
Alaskan Yellow Cedar (L3)
Comb. & Stress Grades
Per A.I.T.C. A190.1

Adhesive: Waterproof per AITC A190.1

Finish							
Premium							
Architectural							
Industrial							
Rustique							
Seal							
Stain							
Varnish							
Except As Noted							

	Protection			
	Indiv. Wrap			
	Load Wrap			
	Bundle Wrap			

Design Data

DL = 12 PSF GSL = 30 PSF
LL = 30 PSF
WL: V = 125 MPH / ASCE 7-10
(EXP. C, I = 1.0, OPEN BLDG.)

WEIGHT OF HEAVIEST MEMBER IS 850 LBS. (B-28)
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FAB. BY



MEMBER



ENWOOD STRUCTURES

Clearance Data - Material			Drawn MES
Height	Length	Width	1-6-2022
			Checked MES
			1-11-2022

Revisions

Our Job No. 21-PS-4911
Approved for Fabrication

MERIDEN PUBLIC SCHOOLS - PARK SHELTERS
MERIDEN, CT

Contractor

	Sheet
	1
	of
	2

PART & MATERIAL LIST

WOOD MATERIAL LIST									
NO. REQ'D	DESCRIPTION	MARK	SIZE	LENGTH	NOM. LAMS	LUMBER	CAMBER	DETAIL ON SHEET	NOTES
11	BEAM	B-44	5" WIDE	SEE DETAIL	2"	24F-V3	NONE	I	
22	COLUMN	C-1	6¾" x 8¼"	7'-11 1/2"	2"	AYC (L3)	NONE	----	I
14	FASCIA	F-1	2 x 8 NOM.	16'-0" UNT'D.	----	AYC (L3)	NONE	----	2
4	FASCIA	F-2	2 x 8 NOM.	18'-0" UNT'D.	----	AYC (L3)	NONE	----	2

HARDWARE SCHEDULE						
MARK	CONN.	NO.	DESCRIPTION	DETAIL ON SHEET	NOTES	LOAD
MK-1	S-1	44	PL 3/8" x 6" x 1'-4"	I	A	
		176	3/4"Φ x 6 1/2" M.B.		A	
MK-2	S-2	22	BASE SHOE	I	A	
		44	3/4"Φ x 8 1/2" M.B.		A	

SHOP NOTES:

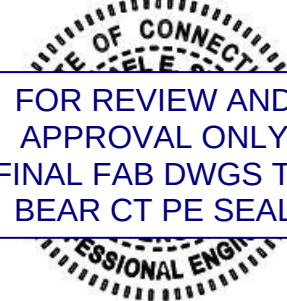
- #1 - FINISH FOUR SIDES.
#2 - PRESSURE TREATED PER AITC 109, ABOVE GROUND USE.

STEEL NOTES

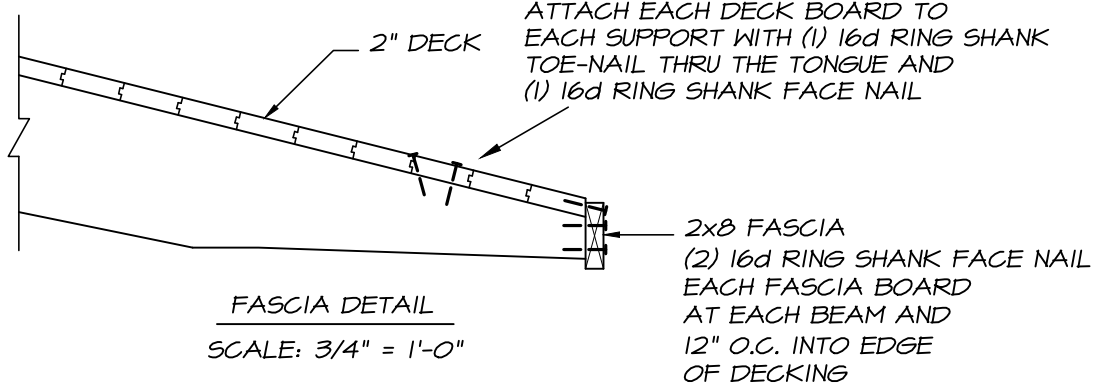
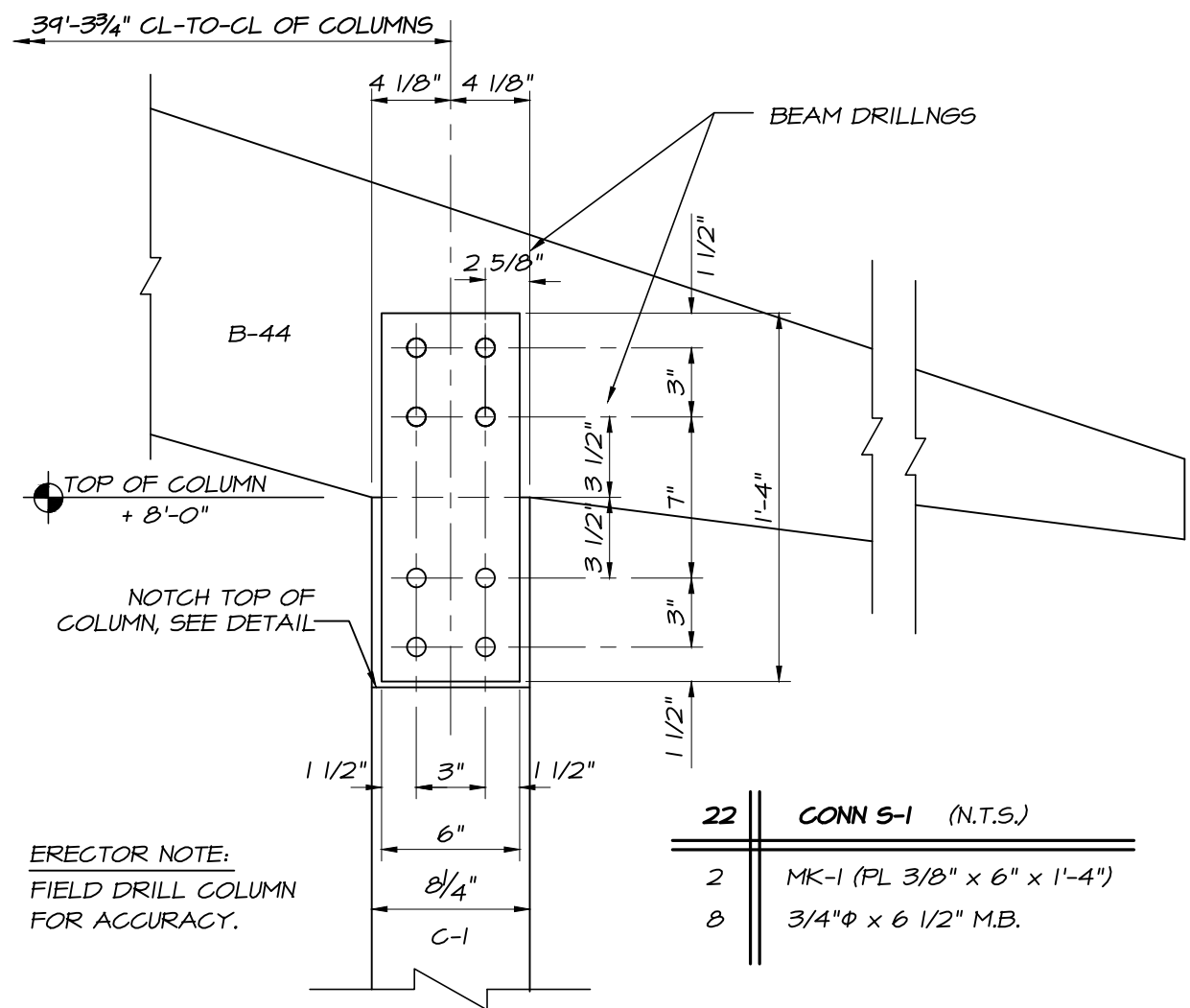
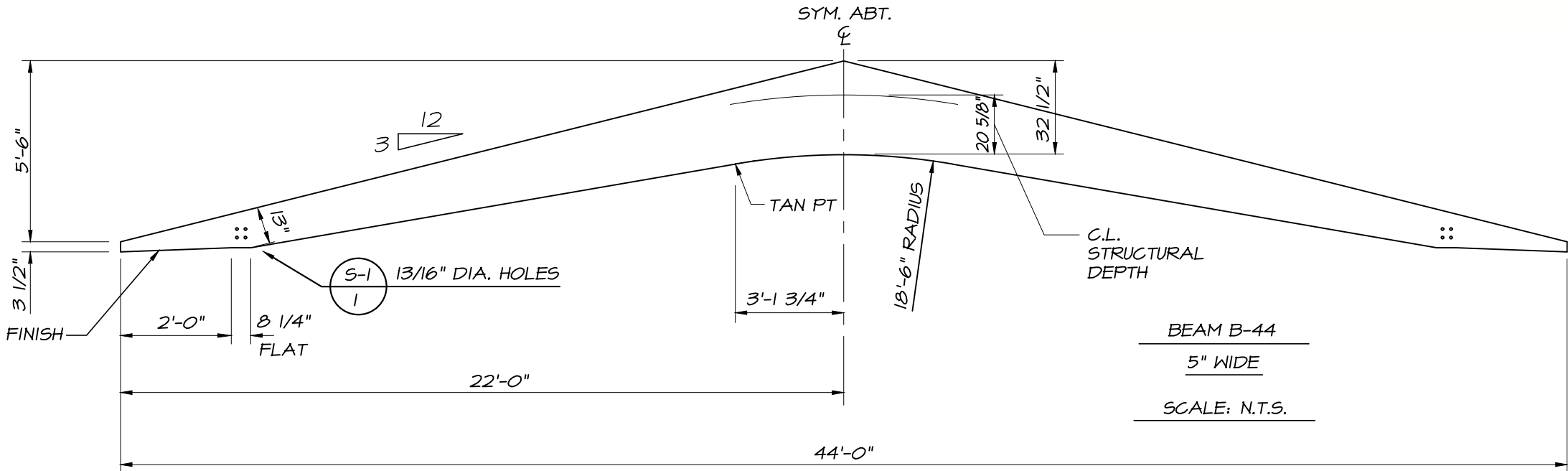
- A) HOT-DIP GALVANIZED



120 St. Mary's Street
Raleigh, NC 27605
919.833.0495
LysaghtAssociates.com
Firm No. C-0621



FOR REVIEW AND
APPROVAL ONLY
FINAL FAB DWGS TO
BEAR CT PE SEAL



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FOR APPROVAL ONLY
NOT FOR CONSTRUCTION

MISCELLANEOUS MATERIALS

LOAD

DECKING

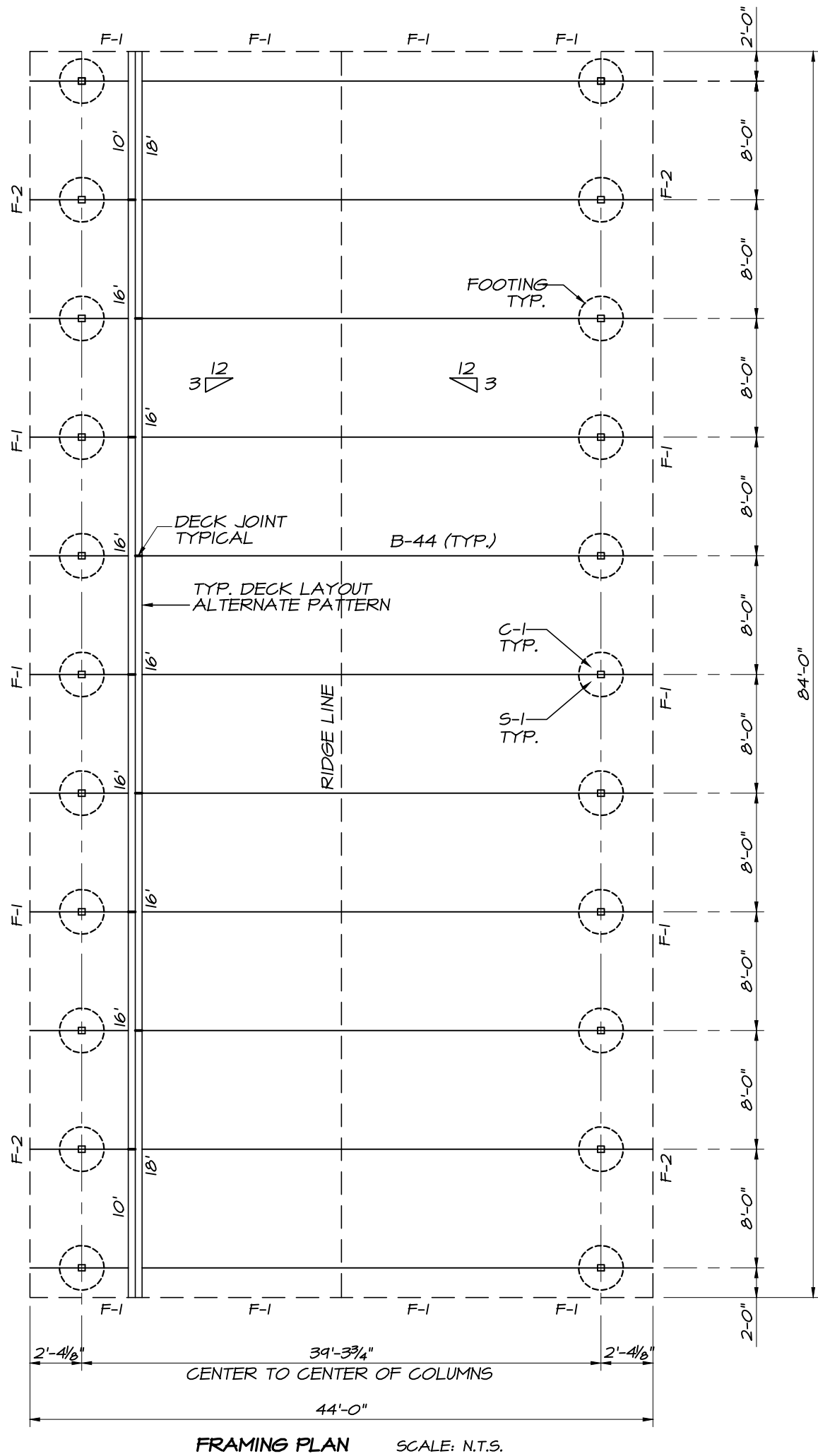
9912 FBM OF 2x6 S.Y.P., #1 GRADE, T & G, V-JOINT FACE SIDE W 8% WASTE
LENGTHS: 59 - 10', 413 - 16', 59 - 18'
58 LBS. OF 16d GALV. RING SHANK NAILS

ROOFING

25 ROLLS OF 30# FELT
42 SQ'S OF CLASS A FIBERGLASS SHINGLES
(OWENS CORNING DURATION HD DIMENSIONAL - BROWN)
51 LBS. OF 1" ROOFING NAILS

FASCIA

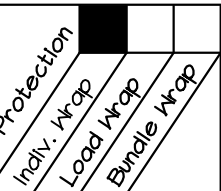
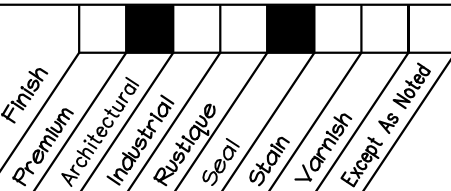
2x8 A.Y.C. (L3) PRESSURE TREATED (SEE WOOD MAT'L. LIST)
8 LBS. OF 16d GALV. RING SHANK NAILS



A.I.T.C. CERTIFICATE & MARKS

Material:
Stress Graded, Kiln Dried
Southern Yellow Pine
Alaskan Yellow Cedar (L3)
Comb. & Stress Grades
Per A.I.T.C. A190.1

Adhesive: Waterproof per AITC A190.1



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Drawn MES 1-6-2022
Checked MES 1-11-2022

Revisions

Our Job No.
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MERIDEN PUBLIC SCHOOLS - PARK SHELTER MERIDEN, CT	
Architect	
Contractor	

Sheet
1
of
2

