GENERAL NOTES:

1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION, AS ADOPTED BY THE UNIFIED FACILITIES CRITERIA, AND AS FOLLOWS:

UFC 1-200-01	GENERAL BUILDING REQUIREMENTS, WITH CHANGE 1
UFC 301-01	STRUCTURAL ENGINEERING WITH CHANGE 3
UFC 3-310-01	STRUCTURAL LOAD DATA, WITH CHANGE 2
UFC 3-310-02A	STRUCTURAL DESIGN CRITERIA FOR BUILDINGS
UFC 3-320-01A	WELDING – DESIGN PROCEDURES AND INSPECTIONS
UFC 3-330-01A	COMMENTARY ON SNOW LOADS

2. THE WORK UNDER THE FOLLOWING SPECIFICATION SECTIONS IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION:
   A. 051200 – STRUCTURAL STEEL
   B. 061000 - ROUGH CARPENTRY

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

4. BEFORE PROCEEDING WITH WORK WITHIN THE EXISTING STRUCTURE THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING STRUCTURAL CONDITIONS. THE SHORING AND BRACING SHOWN IS A PARTIAL AND SCHEMATIC REPRESENTATION OF THAT REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SAFEGUARDS NECESSARY TO PROTECT THE EXISTING STRUCTURE FROM DAMAGE.

5. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND OTHER REQUIREMENTS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING. THE CONTRACTOR HALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS.

6. SPECIFIC NOTES AND SPECIFIC DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER STRUCTURAL NOTES AND TYPICAL DETAILS.

7. LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:
   A. LIVE LOADS:

ROOF	20 PSF

   C. WIND DESIGN DATA:

ULTIMATE DESIGN WIND SPEED	120 MPH
NOMINAL DESIGN WIND SPEED	90 MPH
RISK CATEGORY	II
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	±0.18
COMPONENTS AND CLADDING DESIGN PRESSURES	
(ZONE 1 WITH 10 SF TRIBUTARY AREA)	±34.4 PSF
(ZONE 4 WITH 10 SF TRIBUTARY AREA)	±40.8 PSF

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOURTEENTH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360-10) "STEEL CONSTRUCTION MANUAL" – ALLOWABLE STRESS DESIGN.

2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
   A. STRUCTURAL STEEL W- AND WT-SHAPES – ASTM A992, Fy=50 KSI
   B. RECTANGULAR AND SQUARE HSS – ASTM A500, GRADE B, Fy=46 KSI
   C. ALL OTHER STRUCTURAL STEEL SHAPES, PLATES AND BARS - ASTM A36, Fy=36 KSI (UNLESS OTHERWISE NOTED)

3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL". WELD ELECTRODES SHALL BE E70XX. CONTINUOUS 1/4" FILLET WELDS ARE REQUIRED UNLESS OTHERWISE NOTED.

4. THE FABRICATION OF STRUCTURAL STEEL FRAMING SHOWN TO BE CURVED SHALL BE ACCOMPLISHED BY ROLLING IF FEASIBLE. WHERE ROLLING IS NOT FEASIBLE SUBMIT AN ALTERNATE METHOD FOR REVIEW.

5. UNLESS OTHERWISE NOTED, ATTACH BLOCKING AND NAILERS TO STEEL FRAMING USING 3/16" DIAMETER POWDER ACTUATED FASTENERS AT 24" ON-CENTER OR 1/2" DIAMETER BOLTS AT 48" ON-CENTER. STAGGER FASTENERS TO ALTERNATE SIDES OF BEAM WEB.

ROUGH CARPENTRY NOTES:

1. ROUGH CARPENTRY FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION".

2. UNLESS OTHERWISE NOTED, ALL NAILING SHALL CONFORM TO THE "FASTENING SCHEDULE" SHOWN IN TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION.

3. WOOD FRAMING MEMBERS SHALL COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND THE FOLLOWING REQUIREMENTS:
   A. MOISTURE CONTENT - SEASONED, WITH 19 PERCENT MAXIMUM MOISTURE CONTENT.
   B. GRADE - NO. 2.
   C. SPECIES – SOUTHERN PINE GRADED UNDER SPIB RULES

4. STEEL PLATE CONNECTORS SHALL COMPLY WITH ASTM A36 SPECIFICATIONS (Fy=36 KSI). BOLTS CONNECTING WOOD MEMBERS SHALL COMPLY WITH ASTM A307 STEEL BOLTS, AND SHALL BE 3/4" DIAMETER UNLESS OTHERWISE SPECIFIED.

5. METAL FRAMING ANCHORS SHALL COMPLY WITH ASTM A653 GRADE A (STRUCTURAL QUALITY). ANCHORS SHALL BE CAPABLE OF SUPPORTING THE REACTIONS SHOWN.

6. WHERE MULTIPLE FRAMING MEMBERS ARE INDICATED, SCAB CONTINGENT MEMBERS TOGETHER WITH 16d NAILS AT 12" ON-CENTER, ALTERNATING AT 2 INCHES FROM EACH EDGE, UNLESS OTHERWISE INDICATED.

SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS SHALL BE COMPLETED FOR THE FOLLOWING ELEMENTS ACCORDING TO IBC SECTION 1704.

2. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SPECIAL INSPECTED AS FOLLOWS:
   A. PERIODIC INSPECTION:
      1. BOLTS, NUTS AND WASHERS ACCORDING TO AISC 360-10.
      2. SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"
      3. STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS INCLUDING MEMBER LOCATIONS, CONNECTION DETAILS AND ANY OTHER BRACING AND STIFFENING DETAILS

3. WOOD FRAMING (TRUSSES, ROOF RAFTERS, WALLS) SHALL BE SPECIAL INSPECTED AS FOLLOWS:
   A. PERIODIC INSPECTION:
      1. SIZE, GRADE, SPECIES AND LAYOUT OF FRAMING MEMBERS
      2. CONNECTION DETAILS SUCH AS NAILING, SCREWING, BOLTING, ANCHORING, BRACING AND HOLD DOWNS

STRUCTURAL ABBREVIATION LIST:

w/	WITH	K	KIPS
±	PLUS/MINUS	K.S.F.	KIPS PER SQUARE FOOT
Ø	DIAMETER	K.S.I.	KIPS PER SQUARE INCH
CL	CENTERLINE		
SQ.	SQUARE	LG.	LONG
o/c	ON CENTER	LLH	LONG LEG HORIZONTAL
		LLO	LONG LEG OUTSTANDING
A.B.	ANCHOR BOLT	LLV	LONG LEG VERTICAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LSH	LONG SIDE HORIZONTAL
		LSV	LONG SIDE VERTICAL
ACI	AMERICAN CONCRETE INSTITUTE		
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M.O.S.	MIDDLE OF SLAB
		M.O.W.	MIDDLE OF WALL
A.R.	ANCHOR ROD	MANUF.	MANUFACTURER or MANUFACTURER'S
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MAS.	MASONRY
ADJ.	ADJACENT	MATL.	MATERIAL
ARCH.	ARCHITECT or ARCHITECTURAL	MAX.	MAXIMUM
		MECH.	MECHANICAL
B.	BOTTOM	MIN.	MINIMUM
B.E.J.	BUILDING EXPANSION JOINT	MTL.	METAL
B.D.	BAR DIAMETER		
BLDG.	BUILDING	N.T.S.	NOT TO SCALE
BM.	BEAM		
BRCG.	BRACING	OPP.	OPPOSITE
BRDG.	BRIDGING		
BRG.	BEARING	P/T	POST-TENSIONED
BTWN.	BETWEEN	PAF	POWDER ACTUATED FASTENER
		P.C.	PRECAST
C.G.	CENTER OF GRAVITY	P.E.B.	PRE-ENGINEERED BUILDING
C.I.P.	CAST IN PLACE	PLF	POUNDS PER LINEAR FOOT
C.J.P.	COMPLETE JOINT PENETRATION	P.S.	PRE-STRESSED
CANT.	CANTILEVER	PSF	POUNDS PER SQUARE FOOT
CLR.	CLEAR	PSI	POUNDS PER SQUARE INCH
CMU	CONCRETE MASONRY UNIT	P.T.	PRESSURE TREATED
COL.	COLUMN	Pc	PIECE
CONC.	CONCRETE	PLUMB.	PLUMBING
CONN.	CONNECT or CONNECTION	PROJ.	PROJECTION
CONT.	CONTINUOUS		
COORD.	COORDINATE	R.	RADIUS
		REF.	REFERENCE
D.	DEEP or DEPTH	REINF.	REINFORCED or REINFORCING
DBL.	DOUBLE	REQD.	REQUIRED
DET.	DETAIL	REV.	REVISION
DIA.	DIAMETER		
DIAG.	DIAGONAL	SLO	SHORT LEG OUTSTANDING
DWG.	DRAWING	S.D.I.	STEEL DECK INSTITUTE
DWL.	DOWEL	S.E.J.	SEISMIC EXPANSION JOINT
		S.J.I.	STEEL JOIST INSTITUTE
E.F.	EACH FACE	S.O.G.	SLAB ON GRADE
E.O.	EDGE OF	S.F.	STEPPED FOOTING
E.W.	EACH WAY	SCHED.	SCHEDULE
EA.	EACH	SECT.	SECTION
EL.	ELEVATION	SHT.	SHEET
ELEC.	ELECTRICAL	SIM.	SIMILAR
ELEV.	ELEVATOR or ELEVATION	S.I.R.D.A.	SLOPED INTEGRAL ROOF DECK ASSEMBLY
EMB.	EMBED or EMBEDMENT		
ENG.	ENGINEER	SL.	SLOPE
EQ.	EQUAL	SPA.	SPACE
EQUIV.	EQUIVALENT	STD.	STANDARD
EXIST.	EXISTING	STIFF.	STIFFENER
EXP.	EXPANSION	STIR.	STIRRUP
		STL.	STEEL
F.L.	FULL LENGTH	STRUCT.	STRUCTURAL
F.O.	FACE OF		
F.R.	FIRST RISER	T.	TOP
FIN.	FINISH or FINISHED	T.O.S.	TOP OF STEEL
FLR.	FLOOR	TEMP.	TEMPERATURE
FTG.	FOOTING	TYP.	TYPICAL
G.C.	GENERAL CONTRACTOR	U.O.N.	UNLESS OTHERWISE NOTED
ga	GAGE		
GALV.	GALVANIZED	VERT.	VERTICAL
GD.	GRADE		
		W.	WIDE or WIDTH
H.C.	HOLLOW CORE	W.P.	WORKING POINT
HK.	HOOK	W.W.F.	WELDED WIRE FABRIC
HORIZ.	HORIZONTAL		
J.B.E.	JOIST BEARING ELEVATION		
JT.	JOINT		

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ROCKWELL HALL TRUSS REPAIR

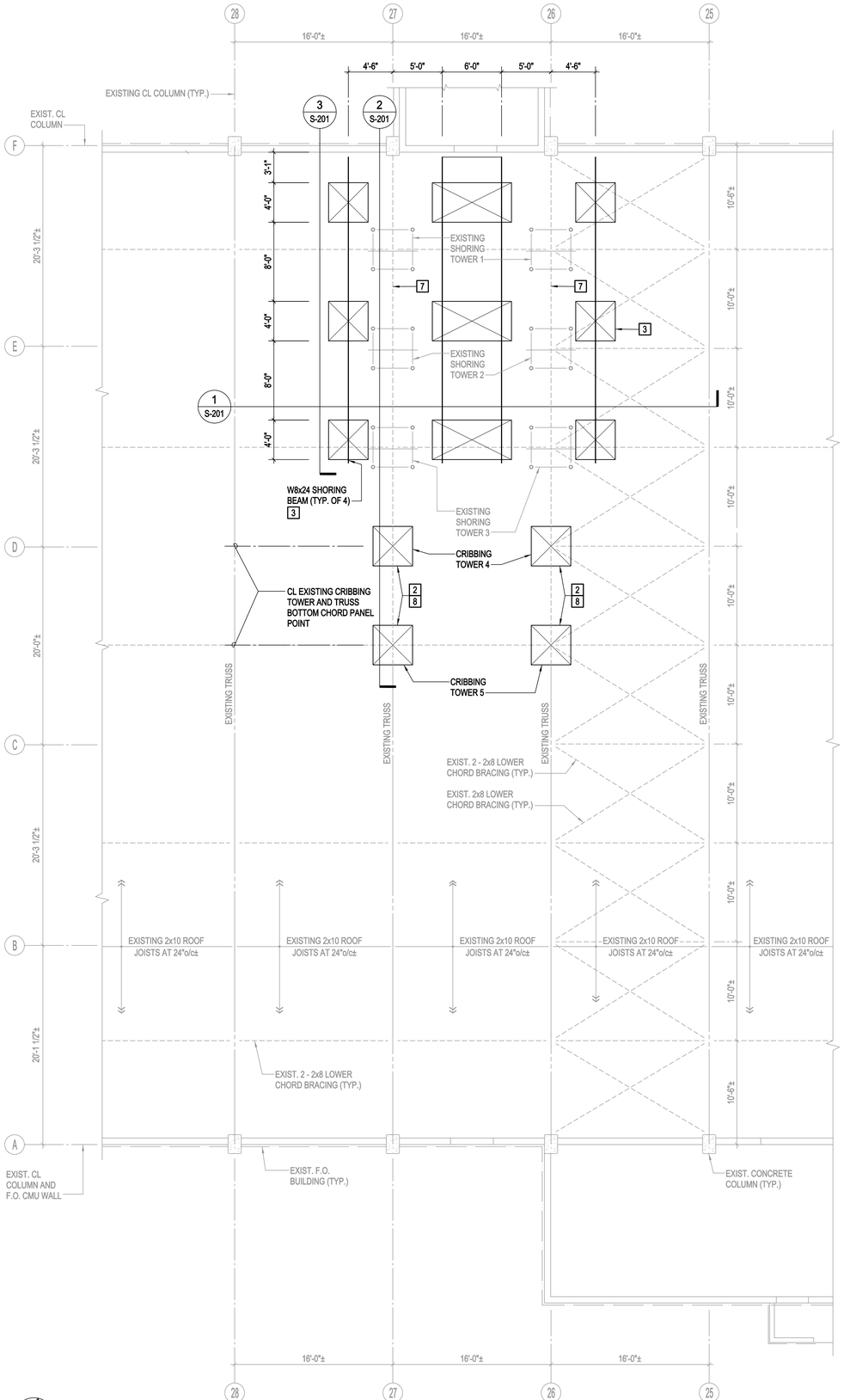
JEB LITTLE CREEK, VIRGINIA BEACH, VIRGINIA

STRUCTURAL NOTES AND ABBREVIATIONS

PROJECT No:	17.334
DESIGNED BY:	MJM
DRAWN BY:	NEB
CHECKED BY:	MJM
DATE:	8/3/18
REVISIONS:	

DRAWING NUMBER

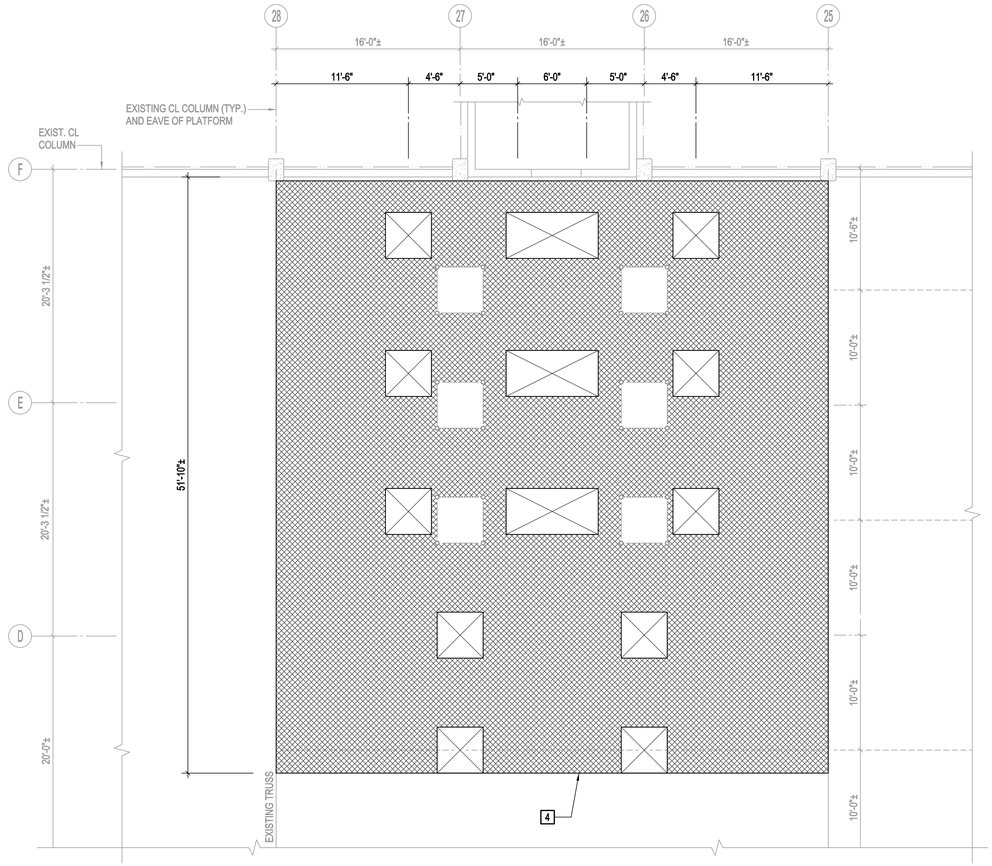
S-001



NORTH

EXISTING ROOF FRAMING SHORING PLAN

3/16" = 1'-0"



NORTH

PLATFORM PLAN

3/16" = 1'-0"

SEQUENCE NOTES:

1 = REMOVE CEILING AND OTHER OBSTRUCTIONS AS REQUIRED TO INSTALL SHORING AND NEW WORK.

2 = INSTALL CRIBBING TOWERS 4 AND 5 AND PROVIDE CAPABILITY TO JACK TRUSSES. TOWERS AND JACKS SHALL BE CAPABLE OF SUPPORTING A MINIMUM LOAD OF 40 KIPS.

3 = INSTALL CRIBBING TOWERS FOR SUPPORT OF (4) SHORING BEAMS. TOWERS SHALL HAVE THE CAPACITY TO JACK SHORING BEAMS (10 TONS) TO LIFT RAFTERS.

4 = INSTALL SYSTEM SCAFFOLD WITH STAIR ACCESS AROUND CRIBBING AND SHORING TOWERS TO PROVIDE WORKING PLATFORM APPROXIMATELY 20 FT. ABOVE FLOOR. INCLUDE COMPLETE SYSTEM INCLUDING RAILING AND OTHER OSHA COMPLIANT COMPONENTS.

5 = SISTER THE FIRST 5 RAFTERS IN THIS BAY WITH NEW 2x10 RAFTERS. FASTEN TOGETHER WITH NO. 8 x 3" SCREWS AT 16"o/c STAGGERED.

6 = INSTALL RAFTER SHORING EACH SIDE OF TRUSSES.

7 = PROCEED WITH DEMOLITION OF EXISTING TRUSSES. WORK SHALL START AT BEARING END AND PROCEED METHODICALLY TO EXTENTS SHOWN ON THE DRAWINGS. FINAL TRIMMING SHALL BE COORDINATED WITH THE STEEL DRAWINGS.

8 = JACK TRUSS AT TOWERS 4 AND 5, SIMULTANEOUS WITH RAFTERS, UNTIL BOTTOM CHORD IS CAMBERED APPROXIMATELY 4 INCHES AT TOWER 5 (20'-0" ABOVE TEMPORARY PLYWOOD SURFACE). RAFTERS CAN BE COMPARED WITH ADJACENT BAYS AND ROOF PROFILE.

9 = INSTALL NEW STEEL SECTIONS OF TRUSSES.

10 = PUT RAFTER LOAD BACK ONTO NEW TRUSS BY LOWERING JACKS. REMOVE RAFTER SHORING AND CRIBBING TOWERS.

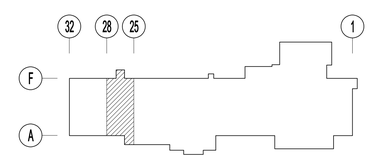
11 = REMOVE CRIBBING TOWER 4 AND THEN 5.

THE INFORMATION REGARDING THE EXISTING CONSTRUCTION WAS OBTAINED FROM THE RECORD DRAWINGS PREPARED BY BUREAU OF YARDS & DOCKS DATED SEPTEMBER 9, 1943. ALL INFORMATION SPECIFYING EXISTING CONDITIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR. THE AFOREMENTIONED DRAWINGS WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST.

GRAPHIC SCALE:

3/16" = 1'-0"

5' 0 5' 10'



NORTH

KEY PLAN

NOT TO SCALE

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ROCKWELL HALL TRUSS REPAIR

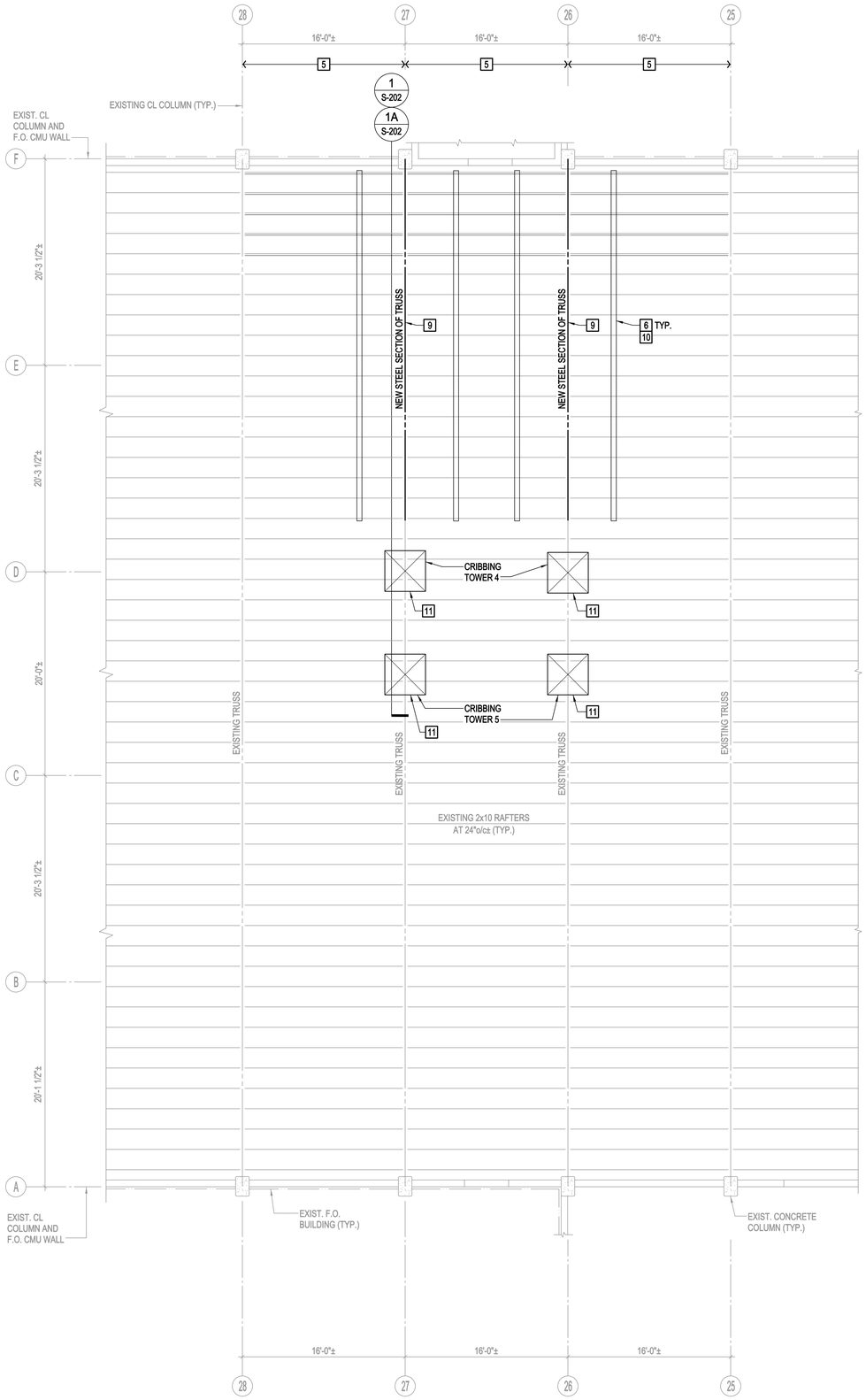
JEB LITTLE CREEK, VIRGINIA BEACH, VIRGINIA

EXISTING ROOF FRAMING SHORING PLAN

PROJECT No:	17.334
DESIGNED BY:	MJM
DRAWN BY:	NEB
CHECKED BY:	MJM
DATE:	8/3/18
REVISIONS:	

DRAWING NUMBER

S-101



NORTH

EXISTING ROOF FRAMING REPAIR PLAN

3/16" = 1'-0"

SEQUENCE NOTES:

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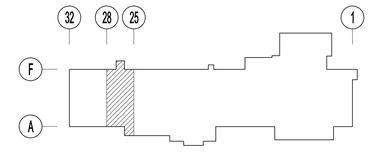
THE INFORMATION REGARDING THE EXISTING CONSTRUCTION WAS OBTAINED FROM THE RECORD DRAWINGS PREPARED BY BUREAU OF YARDS & DOCKS DATED SEPTEMBER 9, 1943. ALL INFORMATION SPECIFYING EXISTING CONDITIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR. THE AFOREMENTIONED DRAWINGS WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST.

GRAPHIC SCALE:

3/16" = 1'-0"

5' 0 5' 10'



NORTH

KEY PLAN

NOT TO SCALE

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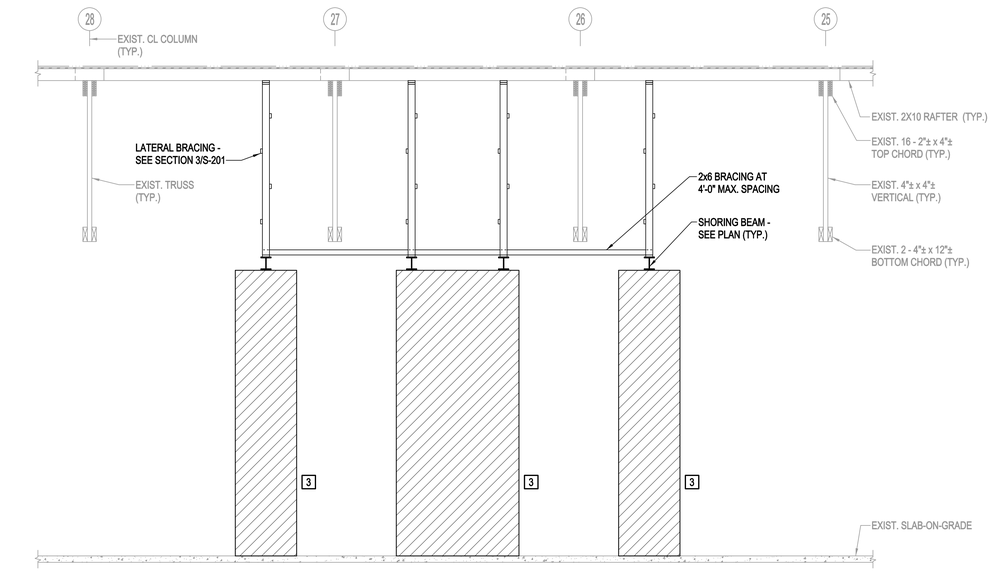
ROCKWELL HALL TRUSS REPAIR

JEB LITTLE CREEK, VIRGINIA BEACH, VIRGINIA

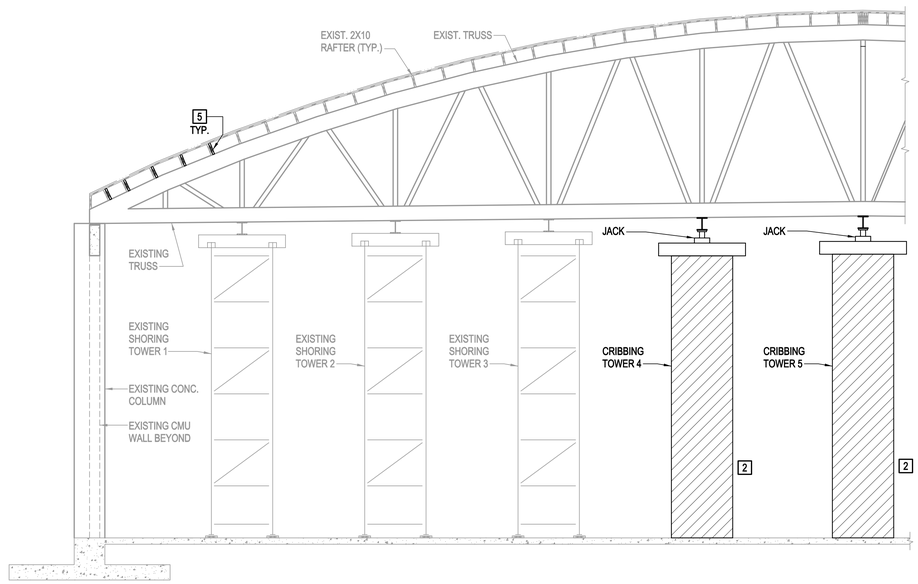
EXISTING ROOF FRAMING REPAIR PLAN

PROJECT No: 17.334
DESIGNED BY: MJM
DRAWN BY: NEB
CHECKED BY: MJM
DATE: 8/3/18
REVISIONS:

DRAWING NUMBER
S-102

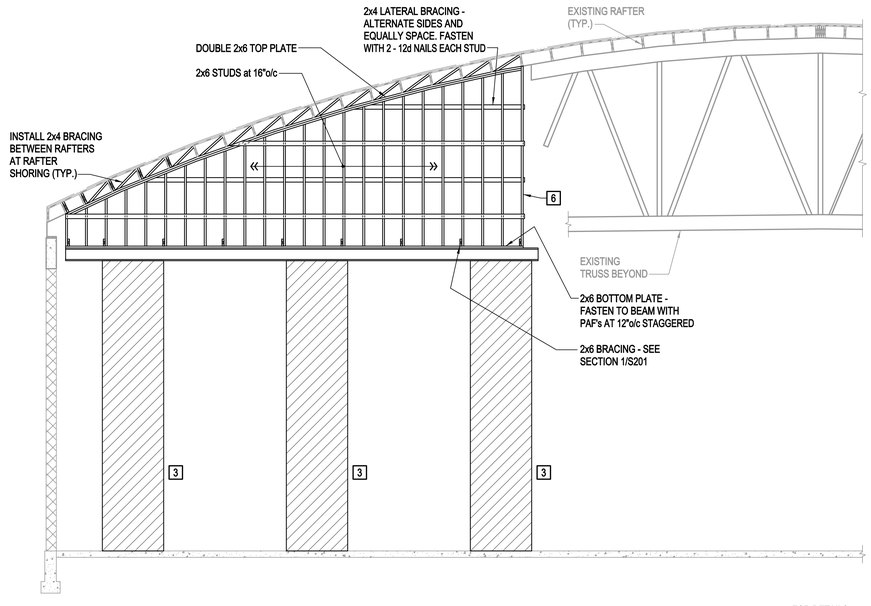


1 S-201 **SECTION**
1/4" = 1'-0"



FOR DETAILS NOT NOTED SEE SECTION 1/S-201

2 S-201 **SECTION**
1/4" = 1'-0"



FOR DETAILS NOT NOTED SEE SECTION 1/S-201

3 S-201 **SECTION**
1/4" = 1'-0"

SEQUENCE NOTES:

1 = REMOVE CEILING AND OTHER OBSTRUCTIONS AS REQUIRED TO INSTALL SHORING AND NEW WORK.

2 = INSTALL CRIBBING TOWERS 4 AND 5 AND PROVIDE CAPABILITY TO JACK TRUSSES. TOWERS AND JACKS SHALL BE CAPABLE OF SUPPORTING A MINIMUM LOAD OF 40 KIPS.

3 = INSTALL CRIBBING TOWERS FOR SUPPORT OF (4) SHORING BEAMS. TOWERS SHALL HAVE THE CAPACITY TO JACK SHORING BEAMS (10 TONS) TO LIFT RAFTERS.

4 = INSTALL SYSTEM SCAFFOLD WITH STAIR ACCESS AROUND CRIBBING AND SHORING TOWERS TO PROVIDE WORKING PLATFORM APPROXIMATELY 20 FT. ABOVE FLOOR. INCLUDE COMPLETE SYSTEM INCLUDING RAILING AND OTHER OSHA COMPLIANT COMPONENTS.

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6 = INSTALL RAFTER SHORING EACH SIDE OF TRUSSES.

7 = PROCEED WITH DEMOLITION OF EXISTING TRUSSES. WORK SHALL START AT BEARING END AND PROCEED METHODICALLY TO EXTENTS SHOWN ON THE DRAWINGS. FINAL TRIMMING SHALL BE COORDINATED WITH THE STEEL DRAWINGS.

8 = JACK TRUSS AT TOWERS 4 AND 5, SIMULTANEOUS WITH RAFTERS, UNTIL BOTTOM CHORD IS CAMBERED APPROXIMATELY 4 INCHES AT TOWER 5 (20'-0" ABOVE TEMPORARY PLYWOOD SURFACE). RAFTERS CAN BE COMPARED WITH ADJACENT BAYS AND ROOF PROFILE.

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11 = REMOVE CRIBBING TOWER 4 AND THEN 5.

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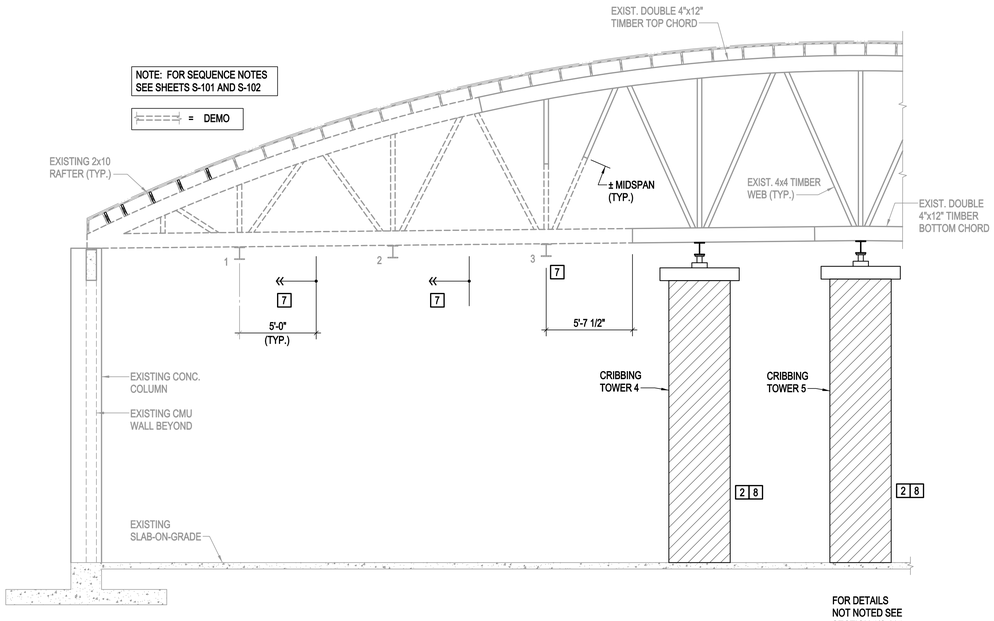
ROCKWELL HALL TRUSS REPAIR

JEB LITTLE CREEK, VIRGINIA BEACH, VIRGINIA

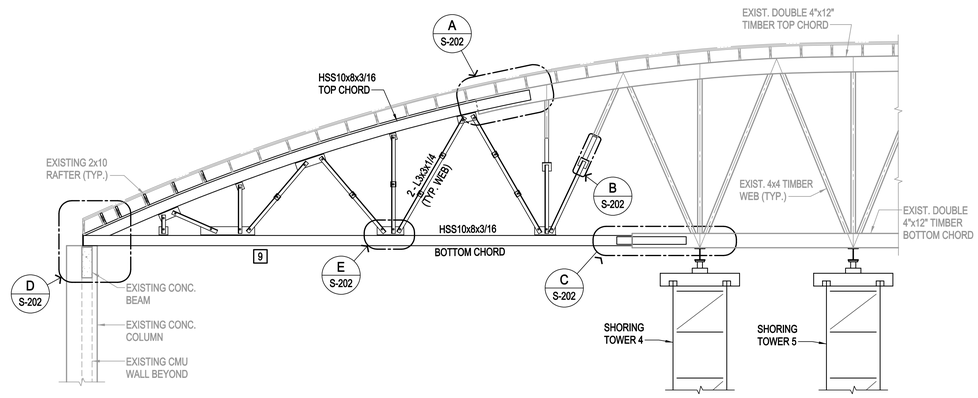
SECTIONS

PROJECT No: 17.334
DESIGNED BY: MJM
DRAWN BY: NEB
CHECKED BY: MJM
DATE: 8/3/18
REVISIONS:

DRAWING NUMBER
S-201

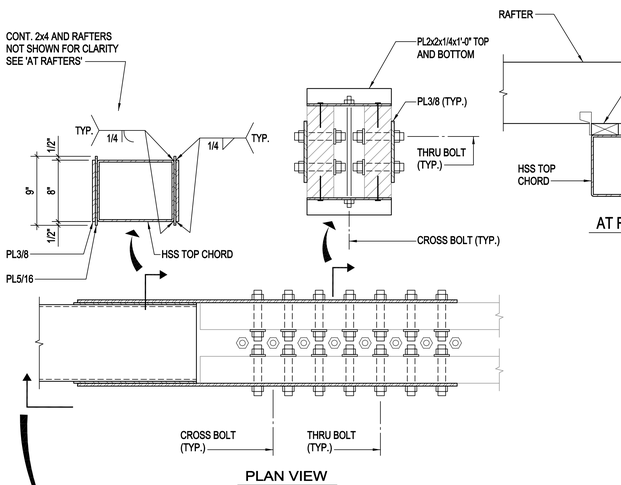


1 S-202 **SECTION - DEMOLITION**
1/4" = 1'-0"

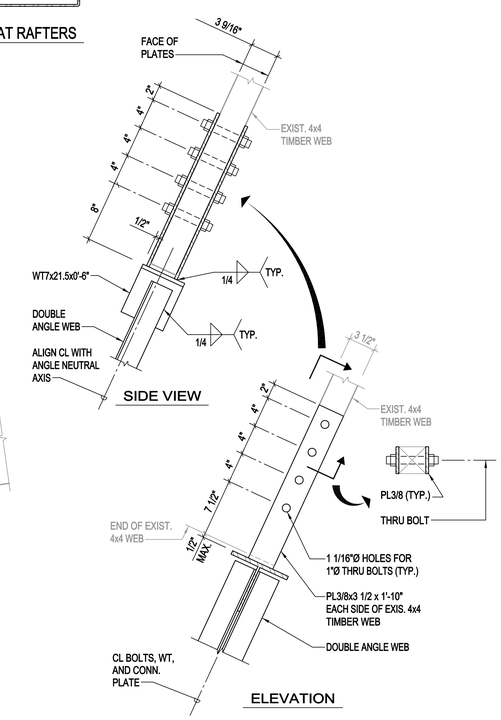


NOTES:
1. FOR SEQUENCE NOTES SEE SHEETS S-101 AND S-102
2. SEE TRUSS FABRICATION ELEVATION ON SHEET S-203

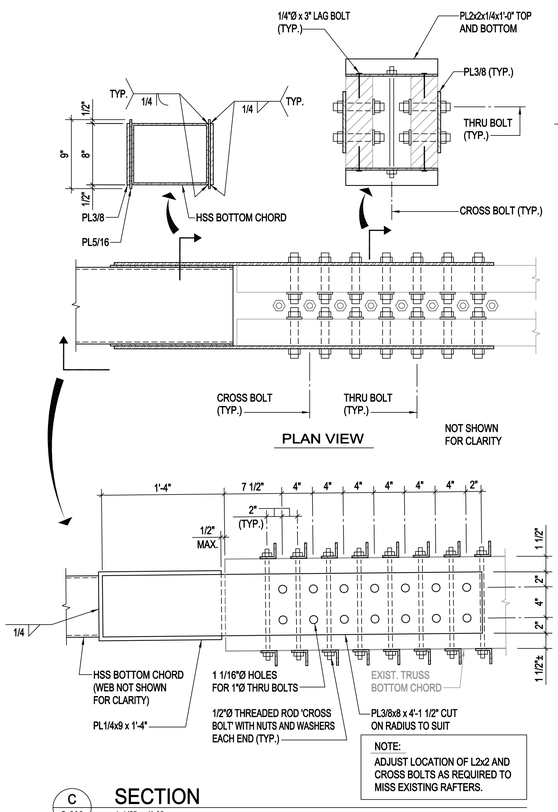
1A S-202 **SECTION - NEW WORK**
1/4" = 1'-0"



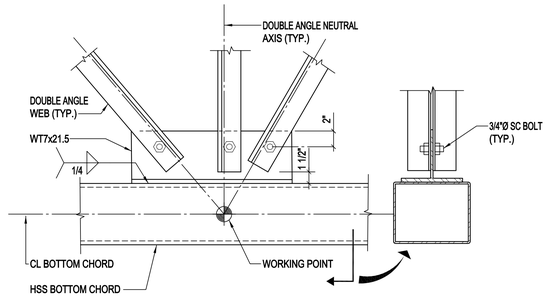
A S-202 **SECTION**
1 1/2" = 1'-0"



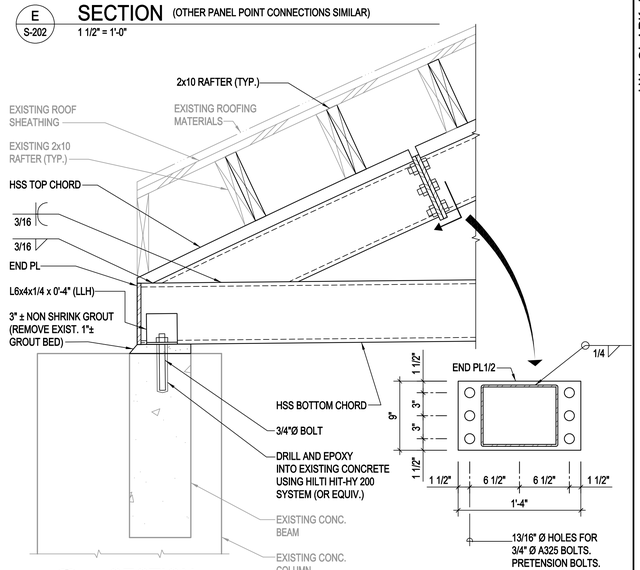
B S-202 **SECTION**
1 1/2" = 1'-0"



C S-202 **SECTION**
1 1/2" = 1'-0"



E S-202 **SECTION** (OTHER PANEL POINT CONNECTIONS SIMILAR)
1 1/2" = 1'-0"



D S-202 **SECTION**
1 1/2" = 1'-0"

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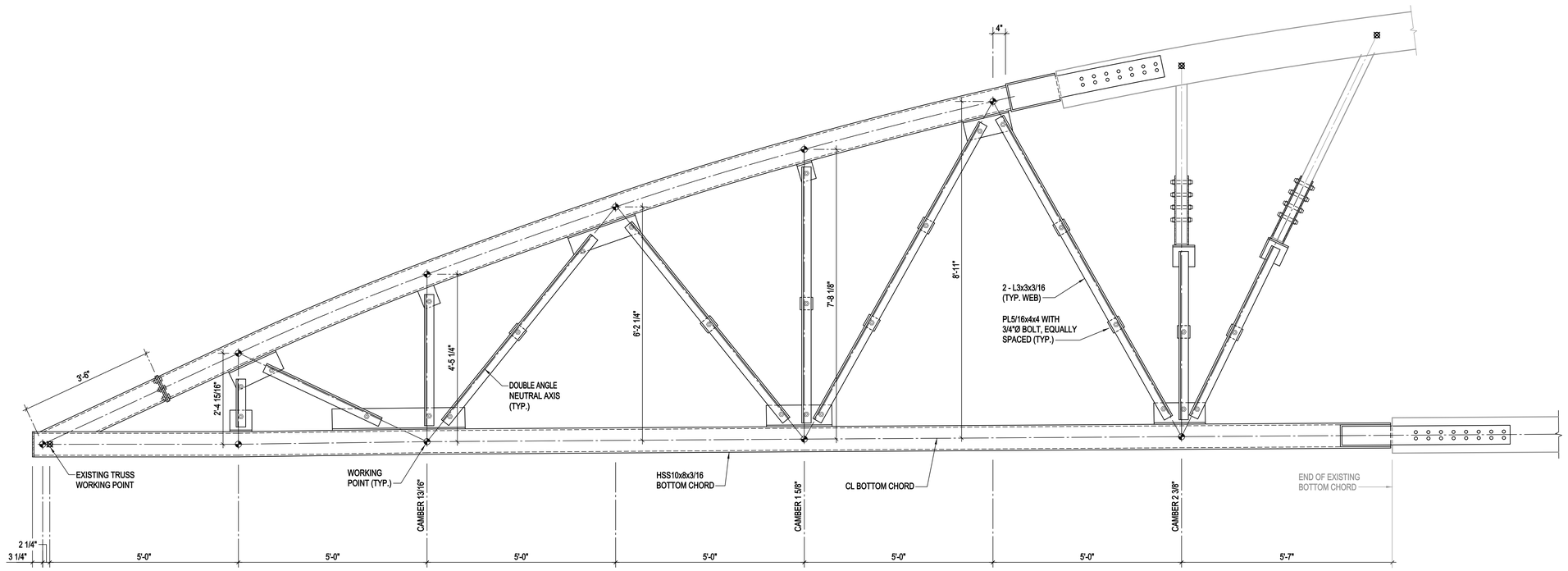
ROCKWELL HALL TRUSS REPAIR

JEB LITTLE CREEK, VIRGINIA BEACH, VIRGINIA

SECTIONS AND DETAILS

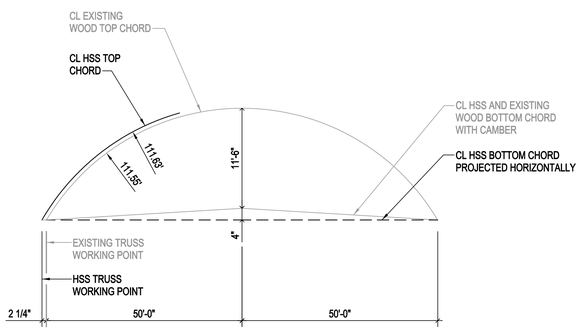
PROJECT No: 17.334
DESIGNED BY: MJM
DRAWN BY: NEB
CHECKED BY: MJM
DATE: 8/3/18
REVISIONS:

DRAWING NUMBER
S-202



TRUSS FABRICATION ELEVATION

3/4" = 1'-0"



TRUSS FABRICATION PARAMTERS

NOT TO SCALE

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TRUSS FABRICATION ELEVATION

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