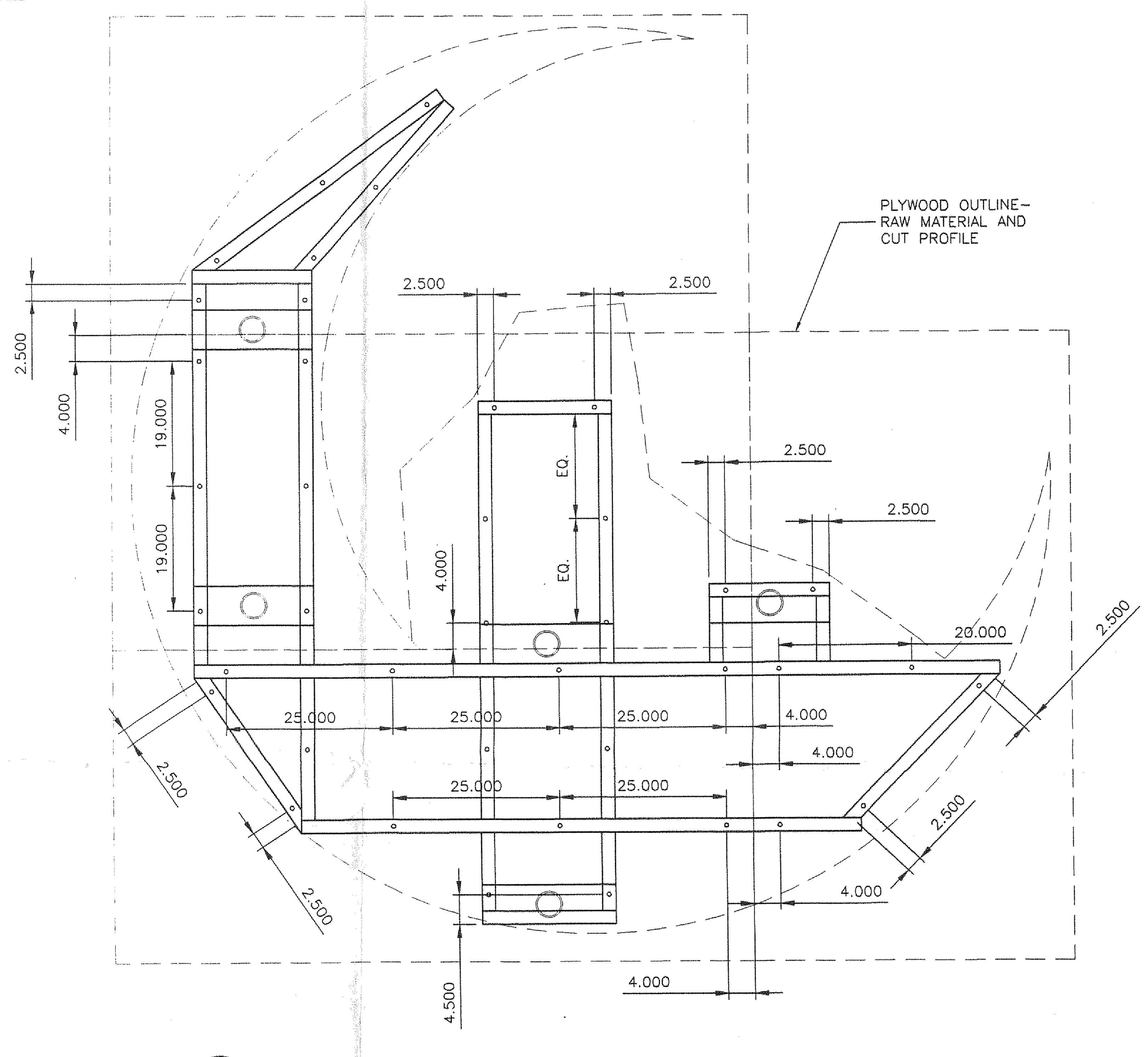
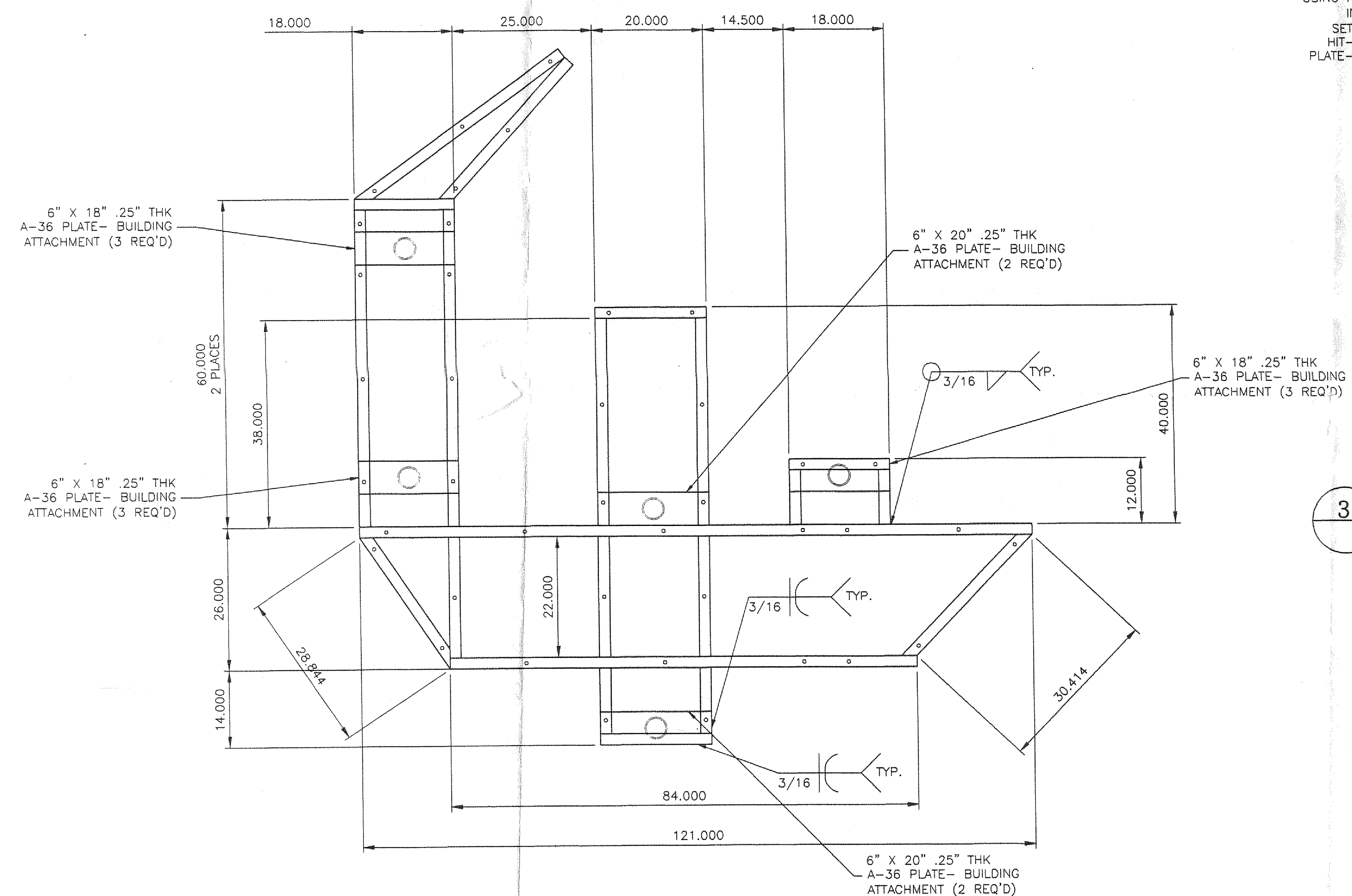
NOTE:
ALL TUBES TO BE 2" X 2" X .1875" TUBE STEEL. PLATE TO BE .25" A-36. ALL TUBE STEEL CONNECTIONS TO BE WELDED ALL THE WAY AROUND- TYPICAL. ALL OPEN TUBES TO BE CAPPED AND WELDED WATER TIGHT. PLY WOOD TO BE 3/4" THICK CONSTRUCTION GRADE.



1 3/4" PLY TO STEEL BOLT PATTERN
SCALE: 3/4" = 1'-0"



2 ELEVATION- STEEL ASSEMBLY
SCALE: 3/4" = 1'-0"

I. GENERAL

A. GENERAL REFERENCE:
ALL WORK MUST CONFORM TO THE REQUIREMENTS OF THE UNIFORM BUILDING CODE, 1997 EDITION, AND OSHA, LATEST EDITION.

B. SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING:

	YES	NO
1. CONCRETE	☐	☒
2. BOLTS INSTALLED IN CONCRETE	☐	☒
3. SPECIAL MOMENT RESISTING	☐	☒
CONCRETE FRAME	☐	☒
4. REINFORCING STEEL AND PRE	☐	☒
STRESSING STEEL TENDONS	☐	☒
5. FIELD WELDING	☐	☒
6. HIGH STRENGTH BOLTING	☐	☒
7. STRUCTURAL MASONRY	☐	☒
8. REINFORCED GYPSUM CONCRETE	☐	☒
9. INSULATING CONCRETE FILL	☐	☒
10. SPRAY APPLIED FIRE ROOFING	☐	☒
11 PILING, DRILLED PIERS AND CAISSONS	☐	☒
12. SHOTCRETE	☐	☒
13. SPECIAL GRADING, EXCAVATION & FILLING	☐	☒
14. SMOKE CONTROL SYSTEMS	☐	☒

C. DESIGN LOADS:
1. WIND LOAD: 80 MPH, EXP. "B"

D. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND THE EXISTING BUILDING PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH ENGINEER.

F. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

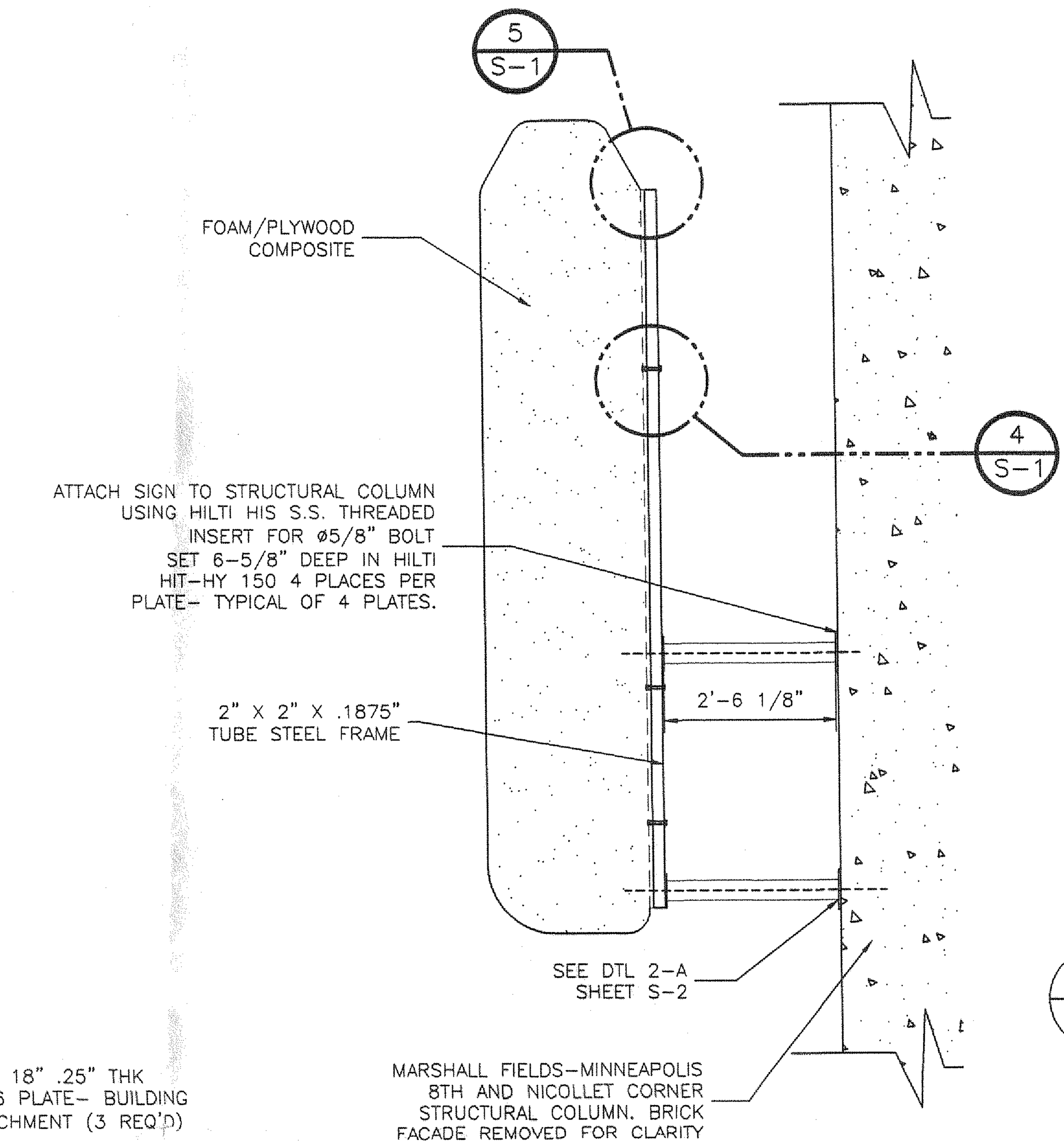
G. THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS PRIOR TO ORDERING MATERIALS AND STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.

H. ALL CONSTRUCTION BRACING AND SHORING MUST BE DESIGNED BY THE CONTRACTOR. MINIMUM REQUIREMENTS INCLUDE THE FOLLOWING:

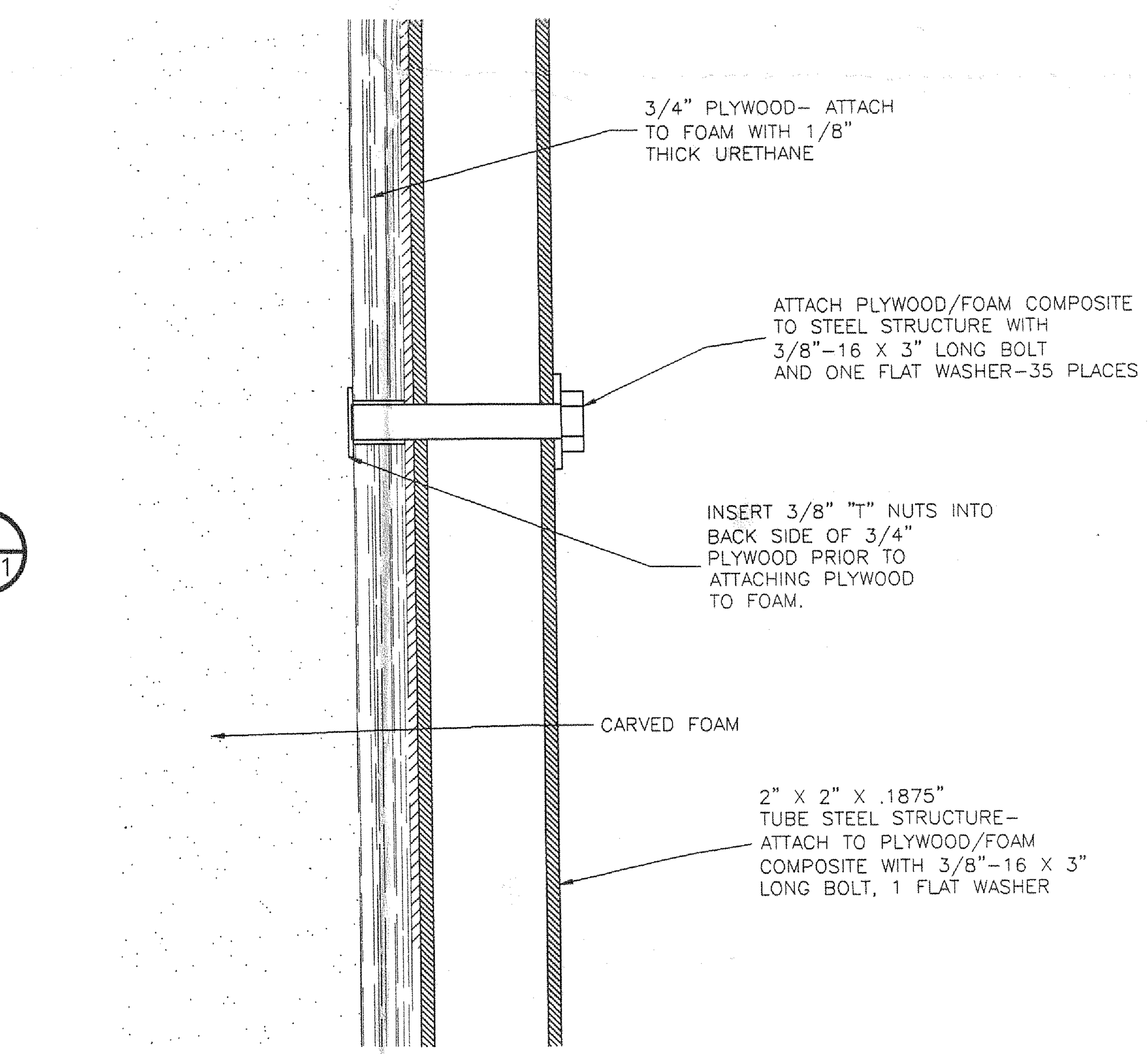
II. STRUCTURAL STEEL

A. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH SPECIFICATIONS OF AISC MANUAL, LATEST EDITION. ALL INTERIOR AND EXTERIOR STEEL TO RECEIVE SHOP PRIME COAT AND SHOP FINISH COAT. FINISH COAT TO BE TOUCHED UP IN FIELD.

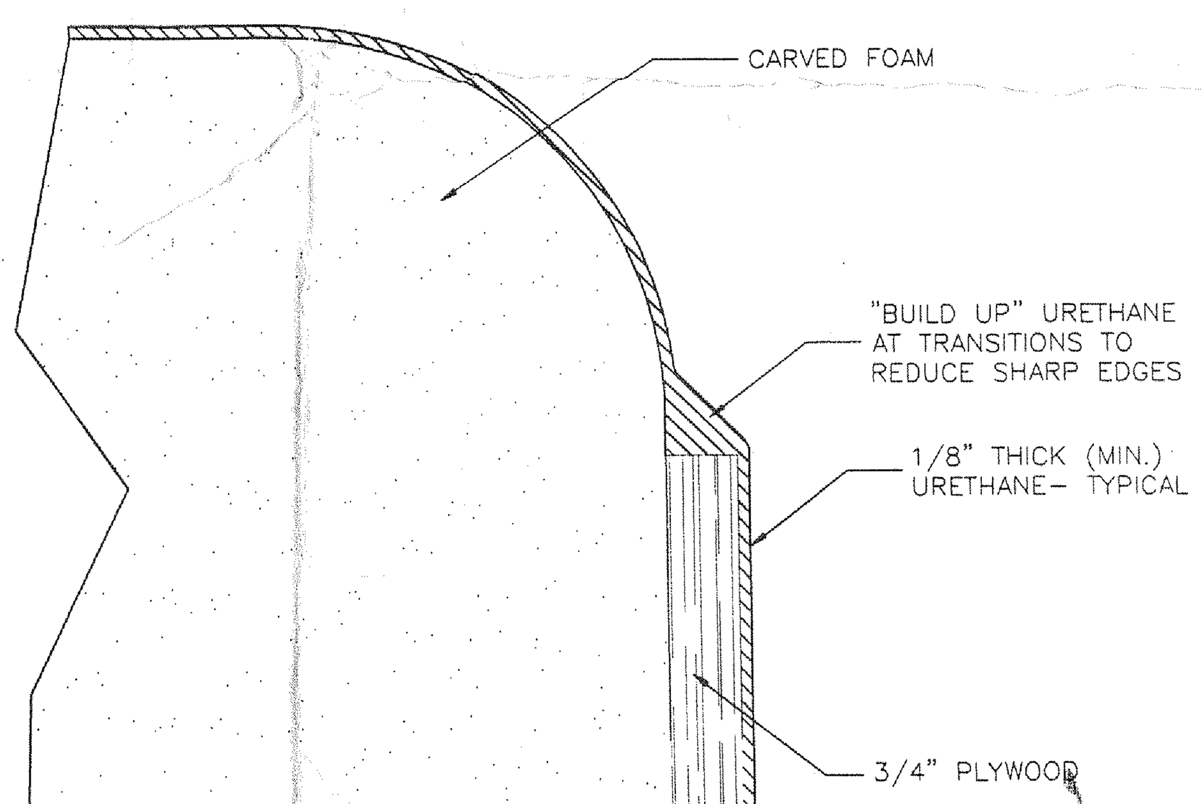
1. STRUCTURAL SHAPES AND PLATES: ASTM A-36
2. TUBULAR STEEL: ASTM A-500, GRADE B (46 KSI)
3. STEEL PIPE: ASTM A501 OR ASTM A53, TYPES E OR S, GRADE
4. CONNECTIONS FOR MAIN STEEL INCLUDING BRACING: ASTM A-307, GRADE A.
5. WELDING SHALL CONFORM TO AWS SPECIFICATION. ELECTRODES: E70XX
6. PRIME COAT - 2 MILS DFT SHOP STANDARD APPLIED AFTER CLEANING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (POWER BRUSH CLEAN MINIMUM)
7. FINISH COAT - 3 MILS DFT SEMI-GLOSS ALKYD ENAMEL



3 SECTION THROUGH CENTER OFORNAMENT
SCALE: 1/2" = 1'-0"



4 TUBE STEEL TO FOAM/PLYWOOD CONNECTION DETAIL
SCALE: HALF



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.

Date 6 NOV 2001 Registration No. 14931

5 FOAM TO PLYWOOD ATTACHMENT
SCALE: HALF

REV. NO.	APPR. BY	DATE	DESCRIPTION OF REVISIONS

ISSUE NO.	APPR. BY	DATE	ISSUED FOR

LARSON

THE LARSON COMPANY
6701 S. Midvale Park Rd., Tucson AZ 85746
(520) 294-3900 FAX: (520) 741-4715

KEY PERSONS AND APPROVALS
PROJECT MANAGER:
DESIGN MANAGER:
DRAWN: RLA
CHECKED:
APPROVED:
DATE: 11-5-01
E.F. No.

PROJECT: MARSHALL FIELDS SANTA SCULPTURE
VENUE:
PROJECT AREA:
UNIT NAME:
SHEET TITLE: MINNEAPOLIS STEEL ARMATURE
PHASE:
PROJECT CODE NUMBER: XXX
REVISION NO: 0
DRAWING NO.: S-1

METRIC E-TITLE