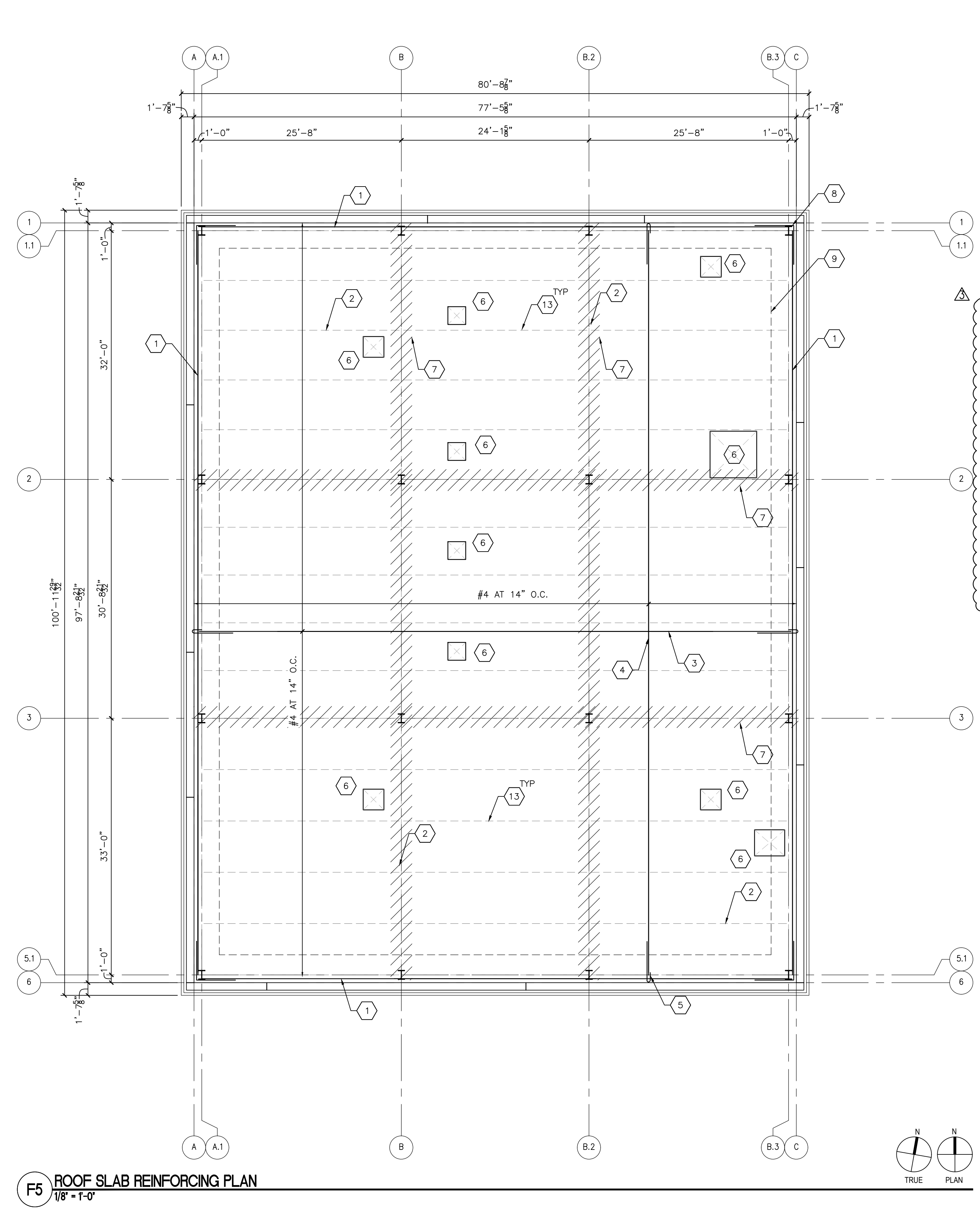
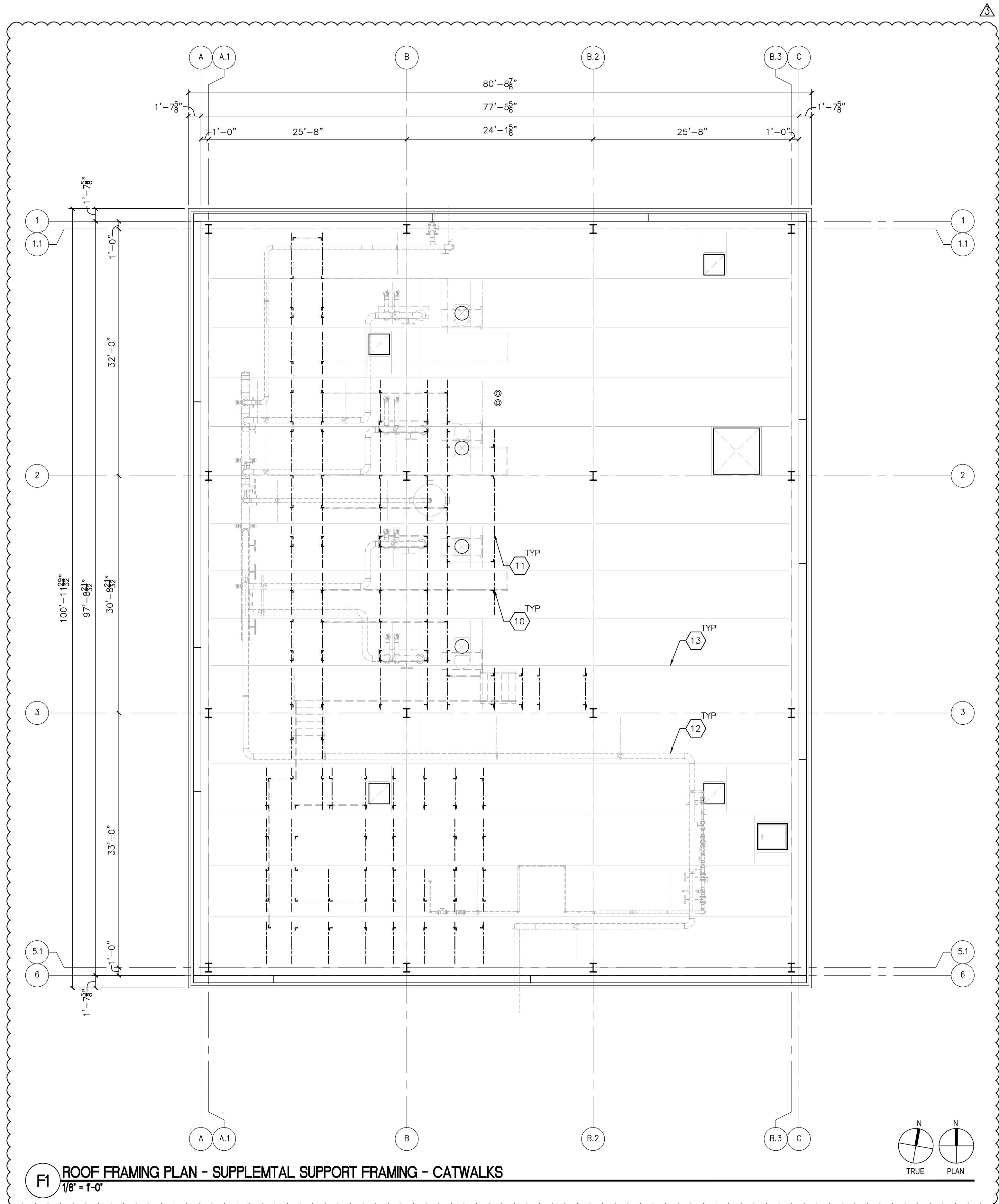


TIE SCHEDULE			
TIE TYPE	TIE SIZE	SPACING	NOTES
PERIMETER "P1"	(3)-#5 CONT.	N/A	
PERIMETER "P2"	(5)-#5 CONT.	N/A	1
X-DIRECTION	AS SHOWN	AS SHOWN	
Y-DIRECTION	AS SHOWN	AS SHOWN	

NOTES:
1: CONTRACTOR OPTION: (4) #6 CONT. BARS

- GENERAL NOTES**
- A. TIE-FORCE REQUIREMENTS ARE AS OUTLINED IN UFC 4-023-03 SECTION 3-1. REFER TO THIS REFERENCE FOR MORE INFORMATION ON THE ITEMS SHOWN THIS PLAN.
 - B. SEE SHEET SF102 FOR FRAMING AND DIMENSIONS AND OTHER INFORMATION NOT SHOWN THIS PLAN. FOR CLARITY, THIS PLAN SHOWS ONLY THE SLAB EDGE PERIMETER, BEAM AND COLUMN FRAMING AND TIE-FORCE SLAB REINFORCING. ADDITIONAL REINFORCING REQUIREMENTS ARE AS NOTED BELOW.
 - C. SPLICES IN STEEL REINFORCEMENT USED FOR INTERNAL LONGITUDINAL AND TRANSVERSE TIES ARE NOT SHOWN ON THIS PLAN AND ARE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. SPLICES SHALL BE CLASS B LAP SPLICES, WELDED OR MECHANICALLY JOINED WITH TYPE I OR II MECHANICAL SPLICES PER ACI 318. TYPE II MECHANICAL SPLICES MAY BE USED AT ANY LOCATION WITHIN THE SLAB. TYPE I MECHANICAL SPLICES, WELDED SPLICES AND CLASS B LAP SPLICES SHALL BE LOCATED NO CLOSER THAN 20% OF THE BAY SPACING IN THE DIRECTION OF THE TIE TO ANY COLUMN/BAY GRID LINES.
 - D. SPLICES IN STEEL REINFORCEMENT USED FOR PERIPHERAL TIES ARE NOT SHOWN ON THIS PLAN AND ARE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. FOR PERIPHERAL TIES, TYPE I MECHANICAL SPLICES, WELDED SPLICES AND CLASS B LAP SPLICES SHALL BE LOCATED NO CLOSER THAN 20% OF THE BAY SPACING TO THE COLUMN GRID LINES.
 - E. NON-CONTACT SPLICES ARE NOT ALLOWED.
 - F. USE SEISMIC HOOKS, SAME SIZE AS INTERNAL TIES, PER ACI 318 TO LAP WITH ENDS OF INTERNAL TIES, USING ACI CHAPTER 12 LAP LENGTHS (SEE LAP SCHEDULE ON SHEET S6005), TO ANCHOR INTERNAL TIES TO PERIPHERAL CONTINUOUS TIE AT PERIMETER OF SLAB. ANCHORS SHALL ENCOMPASS OUTER LINE OF PERIPHERAL REINFORCEMENT IF MORE THAN ONE BAR IS USED FOR PERIPHERAL TIE LINE.

- KEY NOTES**
- 1. CONTINUOUS PERIMETER/PERIPHERAL TIE BARS, TYP. REFER TO SCHEDULE. REFER TO SHEET NOTE D FOR SPLICE INFORMATION.
 - 2. BEAM/GIRDER FRAMING, TYP. REFER TO SHEET SF102. ADJUST CONTINUOUS INTERNAL TIE SPACING SUCH THAT INTERNAL TIES DO NOT FALL DIRECTLY ABOVE FLOOR FRAMING MEMBERS, TYP.
 - 3. "X-DIRECTION" CONTINUOUS INTERNAL TIE REINFORCING, TYP. REFER TO SCHEDULE.
 - 4. "Y-DIRECTION" CONTINUOUS INTERNAL TIE REINFORCING, TYP. REFER TO SCHEDULE.
 - 5. SEISMIC HOOK PER ACI 318, SAME SIZE AND SPACING AS INTERNAL TIE REINFORCING. PROVIDE SPLICE WITH TIE REINFORCING, TYP. REFER TO SHEET NOTE C.
 - 6. AT CORNERS PENETRATIONS LARGER THAN 12"x12", PROVIDE SLAB REINFORCING CONFIGURED PER DETAIL C9/SF402 AND EXTEND BARS INTO SLAB FIELD PER LAP LENGTH ON SHEET S6005.
 - 7. AT COLUMN LINES PROVIDE BARS BETWEEN COLUMNS SAME SIZE AND SPACING AS INTERNAL TIE REINFORCING BUT DO NOT SPLICE OR LAP WITHIN THE COLUMN STRIP. NOT SPECIFICALLY SHOWN ON PLAN AT ALL LOCATIONS FOR CLARITY, BUT TYPICAL ALL COLUMN/BEAM AND COLUMN/GIRDER LINES. DISCONTINUOUS REINFORCING DOES NOT NEED TO BE SHIFTED TO AVOID BEING PLACED DIRECTLY OVER MEMBERS, HOWEVER MINOR OFFSET IS REQUIRED TO AVOID CONFLICT WITH COMPOSITE BEAM SHEAR STUDS.
 - 8. PROVIDE CORNERS BARS SAME SIZE AND NUMBER AS PERIPHERAL TIE BARS WITH ACI LAP EACH LEG.
 - 9. PERIPHERAL TIES SHALL BE LOCATED WITHIN 3'-3" OF EDGE OF SLAB, ALL EDGES OF BUILDING.
 - 10. 1.4x4x1/4 HANGERS, SEE SF103 MEZZANINE PLAN FOR DIMENSIONAL COORDINATION. FINAL MEZZANINE LAYOUT SHALL BE COORDINATED WITH FINAL EQUIPMENT SELECTION AND POSITIONING. ALL DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE.
 - 11. HORIZONTAL SUPPORT ANGLE WELDED TO BOTTOM OF MAIN ROOF FRAMING, SEE B4/SF401 FOR INFORMATION. INSTALL CONTINUOUS ANGLES WHERE ALIGNED AS SHOWN. FINAL MEZZANINE LAYOUT SHALL BE COORDINATED WITH FINAL EQUIPMENT SELECTION AND POSITIONING. ALL DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE.
 - 12. SEE F5/SF103 FOR STEAM PIPING AND SUPPORT SUPPLEMENT FRAMING LAYOUT INFORMATION.
 - 13. SEE F1/SF103 FOR MAIN ROOF FRAMING INFORMATION.



F1 ROOF FRAMING PLAN - SUPPLEMENTAL SUPPORT FRAMING - CATWALKS
1/8" = 1'-0"

F5 ROOF SLAB REINFORCING PLAN
1/8" = 1'-0"

ADDENDUM 1 ADDENDUM 2 (NO STRUCTURAL CHANGES) ADDENDUM 3	08-09-24 XX-XX-XX 01-17-25	CONSULTANT MOON TREE CONSULTING 1808 DEEP CREEK RD, OKC, OK 73131 918.527.7166 INFO@MOONTREELLC.COM	ARCHITECT/ENGINEER OF RECORD paradigm Architecture Engineering Design-Build 200 Envoy Circle, Suite 201, Louisville KY 40299 - www.paradigmusa.com	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title ROOF SUPPLEMENTAL FRAMING AND SLAB REINFORCING DIAGRAM	Phase 100% CONSTRUCTION DOCUMENTS	Project Title DESIGN REPLACE BOILER PLANT	Project Number 438-22-900
						Approved: Project Director	FULLY SPRINKLERED	Location SIOUX FALLS VAMC SIOUX FALLS, SD 57105	Building Number 12
Revisions:	Date:					Issue Date 08-09-2024	Checked TWW	Drawn DRW	Drawing Number SF104