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ABBREVIATIONS AND SYMBOLS

A/E	ARCHITECT/ENGINEER	FDN	FOUNDATION	PAF	POWDER ACTUATED FASTENER
ABV	ABOVE	FF	FINISHED FLOOR	PRL	PARALLEL
ADDL	ADDITIONAL	FL	FLOOR	PCF	POUNDS PER CUBIC FOOT
ADJ	ADJACENT	FP	FIREPROOF(ING)	PCI	POUNDS PER CUBIC INCH
AFF	ABOVE FINISHED FLOOR	FS	FAR SIDE	PEMB	PRE-ENGINEERED METAL BUILDING
AHU	AIR HANDLING UNIT	FT	FOOT/FEET	PERM	PERIMETER
ALT	ALTERNATE	FTG	FOOTING	PERP	PERPENDICULAR
APPROX	APPROXIMATE(LY)	GA	GAUGE/GAGE	PJP	PARTIAL JOINT PENETRATION
ARCH	ARCHITECT(URAL)	GALV	GALVANIZED	PL	PLATE
AT	ANTITERRORISM	GB	GRADE BEAM	PLF	POUNDS PER LINEAR FOOT
AVG	AVERAGE	GC	GENERAL CONTRACTOR	PC	PRECAST
AWTS	AUTOMATIC WELDED THREADED STUDS	HORIZ	HORIZONTAL	PREFAB	PREFABRICATED
B PL	BASE PLATE OR BEARING PLATE	HP	HIGH POINT	PSF	POUNDS PER SQUARE FOOT
B/	BOTTOM OF	HSA	HEADED STUD ANCHOR	PSI	POUNDS PER SQUARE INCH
BD	BOARD	HT	HEIGHT	PT	PRE/POST-TENSIONING
BF	BRACED FRAME	I/F	INSIDE FACE	PTW	PRESSURE TREATED WOOD
BFF	BELOW FINISHED FLOOR	ID	INSIDE DIAMETER	PVMT	PAVEMENT
BLDG	BUILDING	IN	INCH(ES)	QTY	QUANTITY
BLK	BLOCK(ING)	INCL	INCLUDE	RAD	RADIUS
BLW	BELOW	INFO	INFORMATION	RE:	REFER TO
BM	BEAM	INT	INTERIOR	REINF	REINFORCEMENT
BOT	BOTTOM	ISO JT	ISOLATION JOINT	REQD	REQUIRED
BRG	BEARING	JST	JOIST	REV	REVISE(ION)
BS	BOTH SIDES	JT	JOINT	RO	ROUGH OPENING
BTWN	BETWEEN	K	KIP(S)	RTU	ROOF TOP UNIT
CC	CENTER TO CENTER	KB	KNEE BRACE	SC	SLIP CRITICAL
CF	CUBIC FOOT OR CUBIC FEET	KCF	KIPS PER CUBIC FEET	SCHED	SCHEDULE
CFMF	COLD-FORMED METAL FRAMING	KLF	KIPS PER LINEAR FOOT	SECT	SECTION
CIP	CAST IN PLACE	KSF	KIPS PER SQUARE FEET	SF	SQUARE FOOT
CJ	CONTROL JOINT/CONSTRUCTION JOINT	KSI	KIPS PER SQUARE INCH	SHT	SHEET
CJP	COMPLETE JOINT PENETRATION	L	LENGTH	SIM	SIMILAR
CL	CENTERLINE	LAT	LATERAL	SL	SLOPE(D) OR SLOPING
CLR	CLEAR OR CLEAR COVER	LBS	POUNDS	SLV	SLEEVE
CMU	CONCRETE MASONRY UNIT	ld	DEVELOPMENT LENGTH	SOG	SLAB ON GRADE
COL	COLUMN	Ldh	HOOK DEVELOPMENT LENGTH	SOD	SLAB ON METAL DECK
CONC	CONCRETE	Lst	LAP SPlice LENGTH	SP	SPACE(S) OR SPACING
CONN	CONNECTION	Lsc	LAP SPlice LENGTH	SPEC	SPECIFY OR SPECIFICATIONS
CONST	CONSTRUCTION	LF	LINEAR FOOT	SQ	SQUARE
CONT	CONTINUOUS	LL	LIVE LOAD	SS	STAINLESS STEEL
CONTR	CONTRACTOR	LLH	LONG LEG HORIZONTAL	STD	STANDARD
COORD	COORDINATE	LLV	LONG LEG VERTICAL	STIFF	STIFFENER
CTR	CENTER(ED)	LONG	LONGITUDINAL	STL	STEEL
CY	CUBIC YARD	LP	LOW POINT	STRUCT	STRUCTURAL
db	BAR DIAMETER	LSH	LONG SIDE HORIZONTAL	SUSP	SUSPEND(ED) OR SUSPENSION
DBA	DEFORMED BAR ANCHOR	LSV	LONG SIDE VERTICAL	T&B	TOP AND BOTTOM
DBL	DOUBLE	LWT	LIGHT WEIGHT	T/	TOP OF
DET	DETAIL	MEP	MECHANICAL, ELECTRICAL, & PLUMBING	TEMP	TEMPORARY
DIA	DIAMETER	MATL	MATERIAL	THD	THREAD(ED)
DIAG	DIAGONAL	MAX	MAXIMUM	THK	THICK(NESS)
DIM	DIMENSION	MCJ	MASONRY CONTROL JOINT	TL	TOTAL LOAD
DL	DEAD LOAD	MECH	MECHANICAL	TRANS	TRANSVERSE
DN	DOWN	MEZZ	MEZZANINE	TRTD	TREATED
DTL	DETAIL	MFR	MANUFACTURE(R)	TYP	TYPICAL
DWG	DRAWING	MID	MIDDLE	UNO	UNLESS NOTED OTHERWISE
DWL	DOWEL	MIN	MINIMUM	VERT	VERTICAL
E/	EDGE OF	MISC	MISCELLANEOUS	VIF	VERIFY IN FIELD
EA	EACH	MULT	MULTIPLE	W	WIDTH
EF	EACH FACE	MO	MASONRY OPENING	W/	WITH
EIFS	EXTERIOR INSULATION FINISH SYSTEM	MTL	METAL	W/C	WATER TO CEMENT RATIO
EJ	EXPANSION JOINT	MWT	MEDIUM WEIGHT	W/O	WITHOUT
ELEC	ELECTRICAL	NF	NEAR FACE	WL	WIND LOAD
ELEV	ELEVATION(S)	NIC	NOT IN CONTRACT	WP	WORKING POINT
EMBED	EMBED(ED)(MENT)	NUM	NUMBER	WT	WEIGHT
ENG	ENGINEER	NOM	NOMINAL	WWR	WELDED WIRE REINFORCEMENT
EOR	ENGINEER OF RECORD	NS	NEAR SIDE		
EQ	EQUAL	NTS	NOT TO SCALE	@	AT / AT EACH
EQUIP	EQUIPMENT	NWT	NORMAL WEIGHT	()°	DEGREE
EST	ESTIMATED	OIF	OUTSIDE FACE	ø	DIAMETER
EW	EACH WAY	OC	ON CENTER	#	NUMBER
EXCL	EXCLUDE(ING)	OD	OUTSIDE DIAMETER		
(E)	EXISTING	OPNG	OPENING	o FD	FLOOR DRAIN
EXP	EXPANSION	OPP	OPPOSITE	o RD	ROOF DRAIN
EXT	EXTERIOR	OH	OPPOSITE HAND		
F/	FACE OF	OVH	OVERHEAD		
F/F	FACE TO FACE	OWJ	OPEN WEB STEEL JOIST		

CONCRETE	STEEL	BAR GRATING
CMU	ALUMINUM	SPECIAL DECK OR FLOOR AREA (SEE PLAN NOTES)
UNDISTURBED SOIL	SAND	CONTINUOUS WOOD FRAMING
ENGINEERED OR COMPACTED FILL	BRICK	WOOD BLOCKING OR SHIM
GRAVEL OR POROUS FILL		

DRAWING LEGEND

GENERAL ANNOTATIONS	CONCRETE CONSTRUCTION	STEEL CONSTRUCTION
FS# CONC SPREAD FTG TAG	CONC SPREAD FOOTING	STEEL COLUMN (W SHAPES)
FC# CONC CONTINUOUS FTG TAG	CONC CONTINUOUS FOOTING	STEEL COLUMN (HSS)
XC# COLUMN TAG	CONC WALL	STEEL COLUMN (HSS ROUND)
XW# WALL TAG	CONC FOUNDATION PEDESTAL	STEEL BEAM / GIRDER
XB# BEAM TAG	CONC COLUMN	STEEL GIRDER TRUSS
XP# PIER TAG	CONC COLUMN BELOW	STEEL TRUSS JOIST
'X' = MATERIAL C = CONCRETE M = MASONRY S = STEEL W = WOOD	CONC PIER	DRAG STRUT CONNECTION
# = NUMERICAL DESIGNATION	CONC BEAM	FULLY RESTRAINED MOMENT CONNECTION
REF ELEVATION CALLOUT (SECTION / DETAILS)	CONC BEAM/WALL BELOW	PARTIALLY RESTRAINED MOMENT CONNECTION
REF ELEVATION CALLOUT (PLAN)	CONC LINTEL	BRACED FRAME (RE: STRUCTURAL ELEVATIONS)
REF = T/OBJECT OR B/OBJECT XX' - YY" = OBJECT ELEVATION FROM DATUM	REINFORCED CAST-IN-PLACE CONCRETE SUSPENDED SLAB	SPLICE CONNECTION
CHANGE IN TOP OF ELEV	CONCRETE SLAB ON GRADE	BEAM SIZE (X) C=Y"
SLOPE DESIGNATION (SEE ARCH FOR ACTUAL SLOPES)	MASONRY WALL	BEAM SIZE = BEAM DESIGNATION X = # OF HEADED STUDS (SPACED UNIFORMLY) Y = BEAM CAMBER (CROWN UPWARD @ MIDSPAN) [Z] = SPECIAL REACTIONS (kips) OR OTHER NOTES
START OF SLOPE WHERE SHOWN	MASONRY COLUMN	
PLAN REFERENCE	MASONRY PIER	STEEL ROOF DECK
TYPICAL (TYP) OR SIMILAR (SIM) DETAIL	MASONRY LINTEL	CONCRETE SLAB ON STEEL DECK
SHEET REFERENCE		
DETAIL, SECTION OR ELEVATION REFERENCE		
TYPICAL (TYP) OR SIMILAR (SIM) DETAIL		
SHEET REFERENCE		
GREY TONE DESIGNATES EXISTING CONSTRUCTION BLACK TONE DESIGNATES NEW CONSTRUCTION UNLESS NOTED OTHERWISE		
NEW CONST EXIST CONST		

MATERIALS

	CONCRETE		STEEL		BAR GRATING
	CMU		ALUMINUM		SPECIAL DECK OR FLOOR AREA (SEE PLAN NOTES)
	UNDISTURBED SOIL		SAND		CONTINUOUS WOOD FRAMING
	ENGINEERED OR COMPACTED FILL		BRICK		WOOD BLOCKING OR SHIM
	GRAVEL OR POROUS FILL				

DESIGN CRITERIA

DC-1 BUILDING CODE:
A. INTERNATIONAL BUILDING CODE (IBC) 2021 AS AMENDED BY
1. UFC 1-200-01 W/ CHANGE 3, DATED 26 FEB 2024
2. UFC 3-301-01 W/ CHANGE 1, DATED 11 APR 2023
B. EDITION OF ALL REFERENCED STANDARDS NOTED HEREIN ARE AS NOTED IN THE BUILDING CODE.

DC-2 VERTICAL LOADS
A. DEAD LOADS (INCLUDES SELF-WEIGHT)
1. ROOF 30 PSF
A. MINIMUM (FOR UPLIFT) 12 PSF
B. LIVE LOADS
1. ROOF (REDUCIBLE PER ASCE 7) 20 PSF MINIMUM
2. FLOORS (REDUCIBLE PER ASCE 7)
A. TYPICAL GROUND FLOOR 100 PSF
B. HANGARS 200 PSF
C. STORAGE 125 PSF
D. MECHANICAL 150 PSF
C. SNOW LOADS
1. GROUND SNOW LOAD (Pg) 5 PSF
2. ADDITIONAL SNOW DRIFT AND SLIDING SNOW AS PER APPLICABLE BUILDING CODE, REFER TO S-005.
D. CONSTRUCTION LOADS
1. NOT TO EXCEED THE DESIGN LIVE LOADS.

DC-3 LATERAL LOADS
A. RISK CATEGORY III
B. WIND DESIGN CRITERIA
1. BASIC DESIGN WIND SPEED (V) 105 MPH
2. ALLOWABLE DESIGN WIND SPEED (V_{asd}) 82 MPH
3. EXPOSURE CATEGORY C
4. INTERNAL PRESSURE COEFFICIENT
A. PARTIALLY ENCLOSED (FULL WIND SPEED) +/- 0.55
5. COMPONENTS AND CLADDING RE: S-005
6. WIND ULTIMATE BASE SHEAR
A. PLAN EAST/WEST (AREA A,D) 101 K
B. PLAN EAST/WEST (AREA B,C) 125 K
C. PLAN NORTH/SOUTH (AREA A,D) 174 K
D. PLAN NORTH/SOUTH (AREA B,C) 187 K
C. SEISMIC DESIGN CRITERIA
1. SEISMIC IMPORTANCE FACTOR (I_s) 1.25
2. SITE CLASS D
3. MAPPED SPECTRAL RESPONSE ACCELERATION
A. SHORT PERIOD (S_s) 0.724
B. ONE SECOND (S₁) 0.226
4. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
A. SHORT PERIOD (S_{0s}) 0.589
B. ONE SECOND (S₀₁) 0.324
5. SEISMIC DESIGN CATEGORY D
6. SEISMIC RESPONSE COEFFICIENT (C_s) 0.123
7. SEISMIC DESIGN BASE SHEAR
A. PLAN EAST/WEST (AREA A,D) 84 K
B. PLAN EAST/WEST (AREA B,C) 79 K
C. PLAN NORTH/SOUTH (AREA A,D) 84 K
D. PLAN NORTH/SOUTH (AREA B,C) 79 K
8. SEISMIC RESISTING SYSTEM:
A. STEEL SPECIAL CONCENTRIC BRACED FRAMES
1. RESPONSE MODIFICATION R = 6
2. DEFLECTION AMPLIFICATION C_o = 5
3. OVERSTRENGTH FACTOR Ω_o = 2
9. ANALYSIS METHOD: EQUIVALENT LATERAL FORCE PROCEDURE

DC-4 FOUNDATION DESIGN CRITERIA
A. FOUNDATION DESIGN IS BASED UPON THE FOLLOWING SOIL PARAMETERS AS PROVIDED IN THE GEOTECHNICAL ENGINEERING REPORT LISTED BELOW:
1. REPORT AGENCY UES
2. REPORT # 4030.2400199
3. REPORT DATE 2025-04-17
B. NET ALLOWABLE SOIL BEARING PRESSURE
1. SPREAD FOOTINGS 3000 PSF
2. CONTINUOUS FOOTINGS 3000 PSF
C. LATERAL EARTH PRESSURE PARAMETERS
1. SOIL DENSITY 120 PCF
2. ANGLE OF INTERNAL FRICTION 30 DEGREES
3. COEFFICIENT OF FRICTION (u) 0.36
4. WIND/SEISMIC INCREASE 1/3 INCREASE
5. PASSIVE EARTH PRESSURE (Kp) 3.00
D. MODULUS OF SUB-GRADE REACTION (ks) 120 PCI
E. MINIMUM BEARING DEPTH 24 INCHES

DC-5 ANTITERRORISM (AT) CRITERIA
A. THIS FACILITY HAS BEEN DESIGNED IN ACCORDANCE WITH THE ANTITERRORISM REQUIREMENTS SET FORTH IN UFC 4-010-01, DATED 24 MAY 2024. BUILDING ANTITERRORISM STRUCTURAL DESIGN CRITERIA ARE AS FOLLOWS:
B. AT FACILITY CRITERIA
1. STANDARD 1: BUILDING STANDOFF DISTANCE > 50 FT TO PERIMETER
2. STANDARD 2: UNOBSTRUCTED SPACE 33 FT
3. STANDARD 5: PARKING BENEATH BUILDINGS
OR ON ROOFTOPS N/A
4. STANDARD 6: PROGRESSIVE COLLAPSE N/A
5. STANDARD 7: STRUCTURAL ISOLATION N/A
6. STANDARD 8: BUILDING OVERHANGS AND BREEZEWAYS N/A
7. STANDARD 9: EXTERIOR MASONRY WALLS #5@32" OC MAX VERTICAL REINF OVERHEAD MOUNTED ARCH RE: DELEGATED DESIGN
8. STANDARD 15: EQUIPMENT BRACING RE: DELEGATED DESIGN
9. STANDARD 19: EQUIPMENT BRACING RE: DELEGATED DESIGN

US Army Corps of Engineers®

ISSUE DATE: JULY 17, 2025

SOLICITATION NO.:

CONTRACT NO.:

DESIGNED BY: A. VALENCIA

DRAWN BY: R. CARLSON

CHECKED BY: D. CLAYSON

SUBMITTED BY:

SIZE: ANSI D

US ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

KORTE CONSTRUCTION
5700 OAKLAND AVE, SUITE 275
ST. LOUIS, MO 63110

CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494137

STRUCTURAL DESIGN CRITERIA, LEGEND, AND ABBREVIATIONS

SHEET ID
S-001

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

FOR REVIEW

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CONCRETE REINFORCING DEVELOPMENT AND LAP SPLICE TABLE

ld

DEVELOPMENT LENGTH

lst

LAP SPLICE LENGTH

ldh

HOOK DEVELOPMENT LENGTH

BAR SIZE

#3

#4

#5

#6

#7

#8

#9

#10

#11

ld (TOP BARS)

18

24

30

35

51

59

66

74

82

ld (OTHER BARS)

14

18

23

27

40

45

51

57

64

lst (TOP BARS)

24

32

39

46

67

77

86

97

107

lst (OTHER BARS)

18

24

30

35

51

59

66

74

82

ldh

12

12

12

14

17

19

21

24

27

f_c = 4500 PSI

BAR SIZE

#3

#4

#5

#6

#7

#8

#9

#10

#11

ld (TOP BARS)

17

23

28

34

49

56

63

71

78

ld (OTHER BARS)

13

17

22

26

38

43

48

54

60

lst (TOP BARS)

23

30

37

45

64

73

82

93

102

lst (OTHER BARS)

17

23

28

34

49

56

63

71

78

ldh

12

12

12

14

16

18

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23

25

NOTES:

1. LENGTHS SHOWN ARE IN INCHES.

2. LENGTHS SHOWN ABOVE ARE FOR SINGLE REINFORCING BARS WITH MAXIMUM YIELD STRENGTH OF 60KSI.

3. LENGTHS SHOWN ASSUME CLEAR SPACING OF BARS ARE AT LEAST 2 TIMES BAR DIAMETER AND CLEAR COVER OF AT...

4. LENGTHS SHOWN ABOVE ARE FOR NORMAL WEIGHT CONCRETE. FOR LIGHT WEIGHT CONCRETE, MULTIPLY VALUES BY...

5. FOR EPOXY COATED BARS, MULTIPLY VALUES BY 1.5.

6. WHEN SPLICING BARS OF DIFFERENT SIZES, USE SPLICE LENGTH FOR LARGER BAR.

7. SPLICES (LAPS) OF REINFORCING BARS MUST BE CLASS 'B' TENSION LAPS PER ACI 318, UNLESS NOTED OTHERWISE.

8. TOP BARS ARE HORIZONTAL REINFORCING BARS WITH 12 INCHES OR MORE OF FRESH CONCRETE IS PLACED BELOW.

9. OTHER BARS ARE ANY REINFORCING BARS THAT DO NOT MEET QUALIFICATION FOR TOP BARS.

ELEMENT

f_c (PSI), WEIGHT

EXPOSURE CLASS (NOTES 1 & 2)

FOOTINGS

4500, NW

F0, S2, W0, C1

FOUNDATION (STEM) WALLS

4500, NW

F1, S2, W0, C1

ADMIN INTERIOR SLAB ON GRADE

4500, NW

F0, S2, W0, C0

HANGAR BAY INTERIOR SLAB ON GRADE

5000, NW

F0, S2, W0, C1

EXTERIOR SLABS

4500, NW

F1, S2, W0, C1

LEVELING GROUT

5000, NW

NOTES:

1. EXPOSURE CLASS INDICATES THE SEVERITY OF THE ANTICIPATED EXPOSURE OF CONCRETE MEMBERS, IN ACCORDANCE WITH ACI 318, CHAPTER 18.

2. PROVIDE TYPE V OR EQUIVALENT SULFATE RESISTANT CEMENT (AS APPROVED BY THE ENGINEER) IN ALL CONCRETE.

3. CONCRETE STRENGTH, f_c, IS THE COMPRESSIVE STRENGTH AT 28 DAYS UNLESS NOTED OTHERWISE.

4. NORMAL WEIGHT (NW) CONCRETE SHALL HAVE A DRY DENSITY OF 145 ±4 PCF, UNO. LIGHTWEIGHT CONCRETE (LW) MUST HAVE A DRY DENSITY OF 115 ±5 PCF UNO.

5. MIX DESIGNS MUST BE IN ACCORDANCE WITH ACI 301.

6. WHERE CONCRETE IS EXPOSURE CLASS F3, RESTRICTIONS ON MAXIMUM FLY ASH AND/OR OTHER CEMENTITIOUS MATERIALS APPLY. REFER TO ACI 318, TABLE 26.4.2.2(B) FOR REQUIREMENTS.

7. AIR CONTENT FOR F1 EXPOSURE MUST BE BETWEEN 4.5% TO 6% UNLESS APPROVED OTHERWISE BY THE ENGINEER. THERE IS NO AIR CONTENT REQUIREMENT FOR THE F0 EXPOSURE CONCRETE.

8. MAXIMUM W/C RATIO MUST NOT BE EXCEEDED. APPROVED ADMIXTURES SUCH AS PLASTICIZERS MAY BE USED ON SITE.

9. CONCRETE FLEXURAL STRENGTH OF HANGAR BAY SOG WILL BE 550 PSI MIN AND 650 PSI MAX AT 90 DAYS.

MASONRY STRENGTH TABLE

ELEMENT

CONCRETE MASONRY

GROUT FOR CONCRETE MASONRY

SPECIFIED COMPRESSIVE STRENGTH

f_m = 2000 PSI

f_g ≥ f_m (2000 PSI MINIMUM)

NOTES:

1. PROVIDE MEDIUM WEIGHT HOLLOW CONCRETE MASONRY UNITS FOR GENERAL USE UNLESS OTHERWISE NOTED.

2. MORTAR FOR CONCRETE MASONRY MUST BE TYPE S AT EXTERIOR WALLS AND TYPE N AT INTERIOR WALLS.

MASONRY REINFORCING SPLICE TABLE

BAR SIZE

8" CMU

10" CMU

12" CMU

SINGLE REINFORCING

8" CMU

10" CMU

12" CMU

DOUBLE REINFORCING

8" CMU

10" CMU

12" CMU

#3

12

12

12

13

13

13

#4

13

12

12

22

22

22

#5

19

16

13

35

35

35

#6

37

29

24

54

54

54

#7

-

40

33

-

63

63

#8

-

-

50

-

-

72

NOTES:

1. LAP SPLICE LENGTHS ARE IN INCHES.

2. LAP SPLICES IN REINFORCED MASONRY MUST HAVE MINIMUM LENGTHS AS DEFINED ABOVE UNLESS NOTE OTHERWISE

3. TABULATED VAULES ARE CALCUATED IN ACCORDANCE WITH TMS 402/602-16 CHAPTER 6.

4. SPLICE AND DEVELOPMENT LENGTHS ARE THE SAME VALUE FOR HORIZONTAL AND VERTICAL BARS

5. SINGLE REINFORCING IS A SINGLE BAR CENTERED IN CMU BLOCK CELL, DOUBLE REINFORCING IS TWO BARS IN A CMU BLOCK CELL WITH 2 INCH MINIMUM CLEAR COVER FROM OUTSIDE FACE OF BLOCK.

6. TABULATED VALUES BASED ON UNCOATED REINFORCMENT WITH A YEILD STRENGTH, F_y =60 KSI

7. TABULATED VALUES BASED ON MASONRY COMPRESSIVE STRENGTH, f_m =2000 PSI

US ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

DESIGNED BY:
A. VALENCA
DRAWN BY:
R. CARLSON
CHECKED BY:
D. CLAYSON
SUBMITTED BY:

ISSUE DATE:
JULY 17, 2025
SOLICITATION NO.:
CONTRACT NO.:

SIZE:
ANSI D

CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494.37

GENERAL STRUCTURAL NOTES

US ARMY CORPS OF ENGINEERS
of Engineers®

DATE

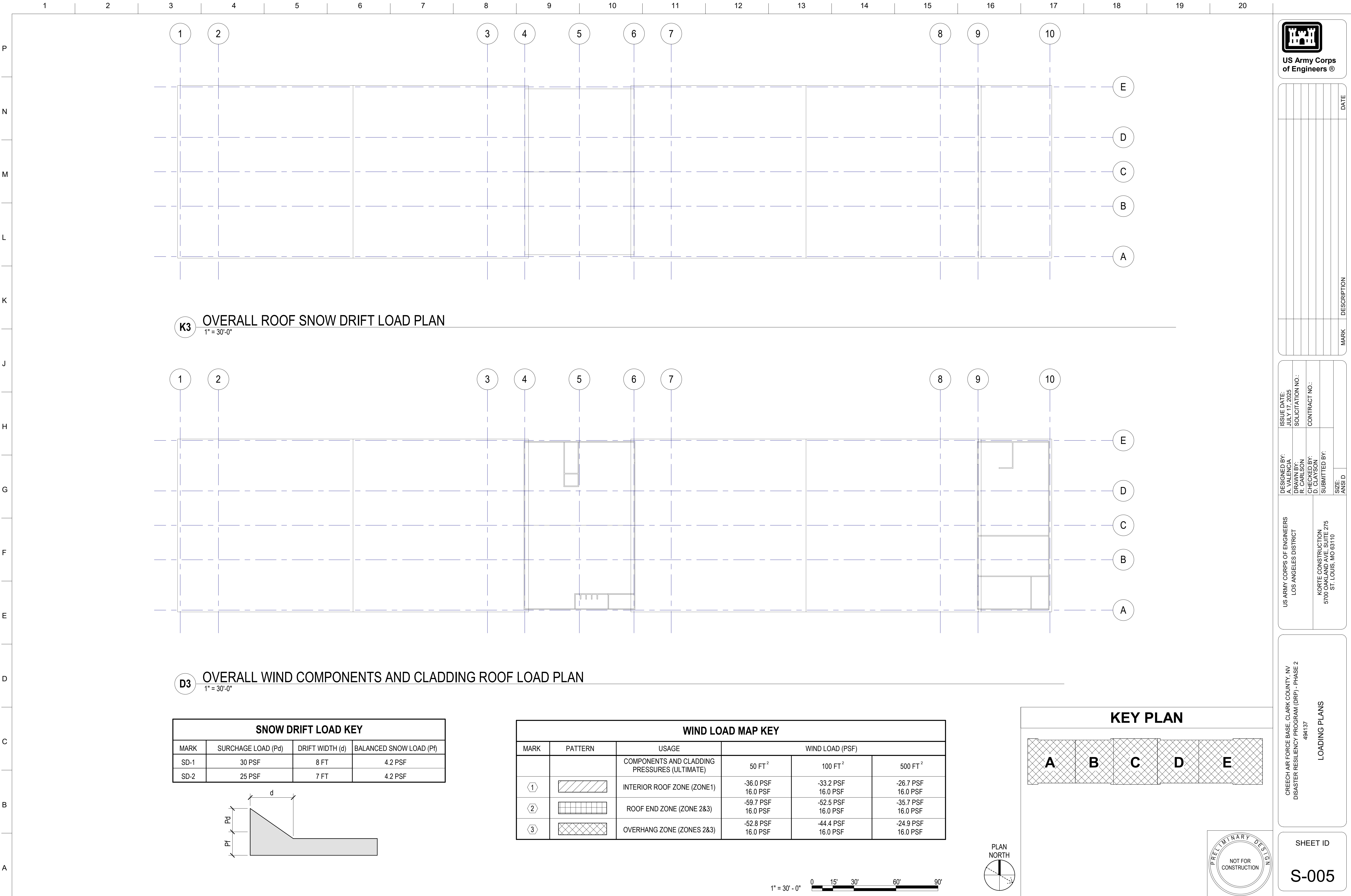
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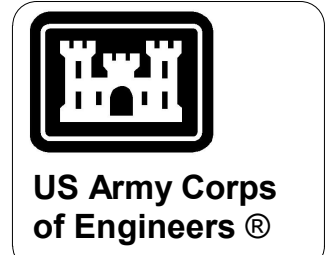
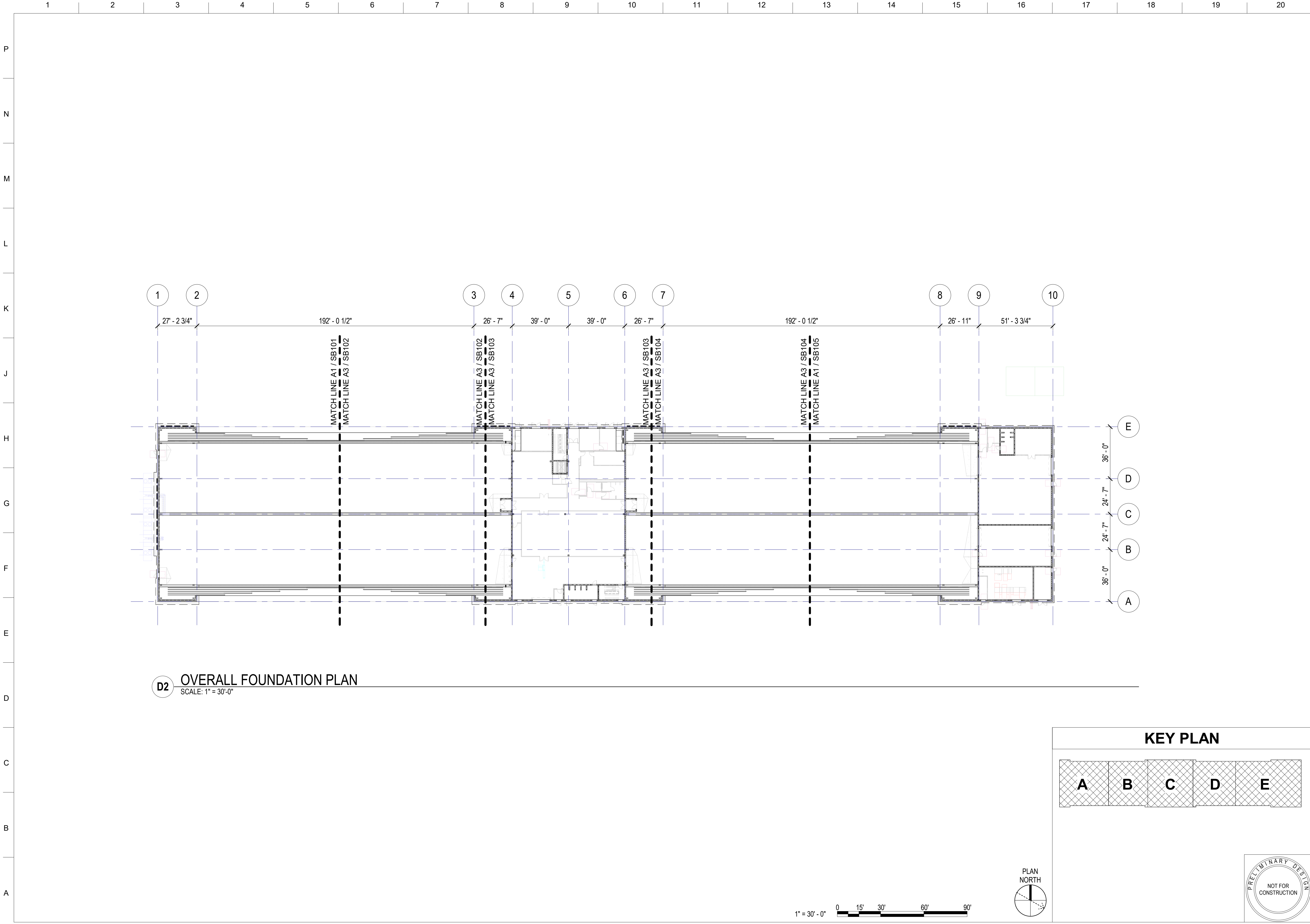
NOT FOR CONSTRUCTION

SHEET ID

S-004

FOR REVIEW





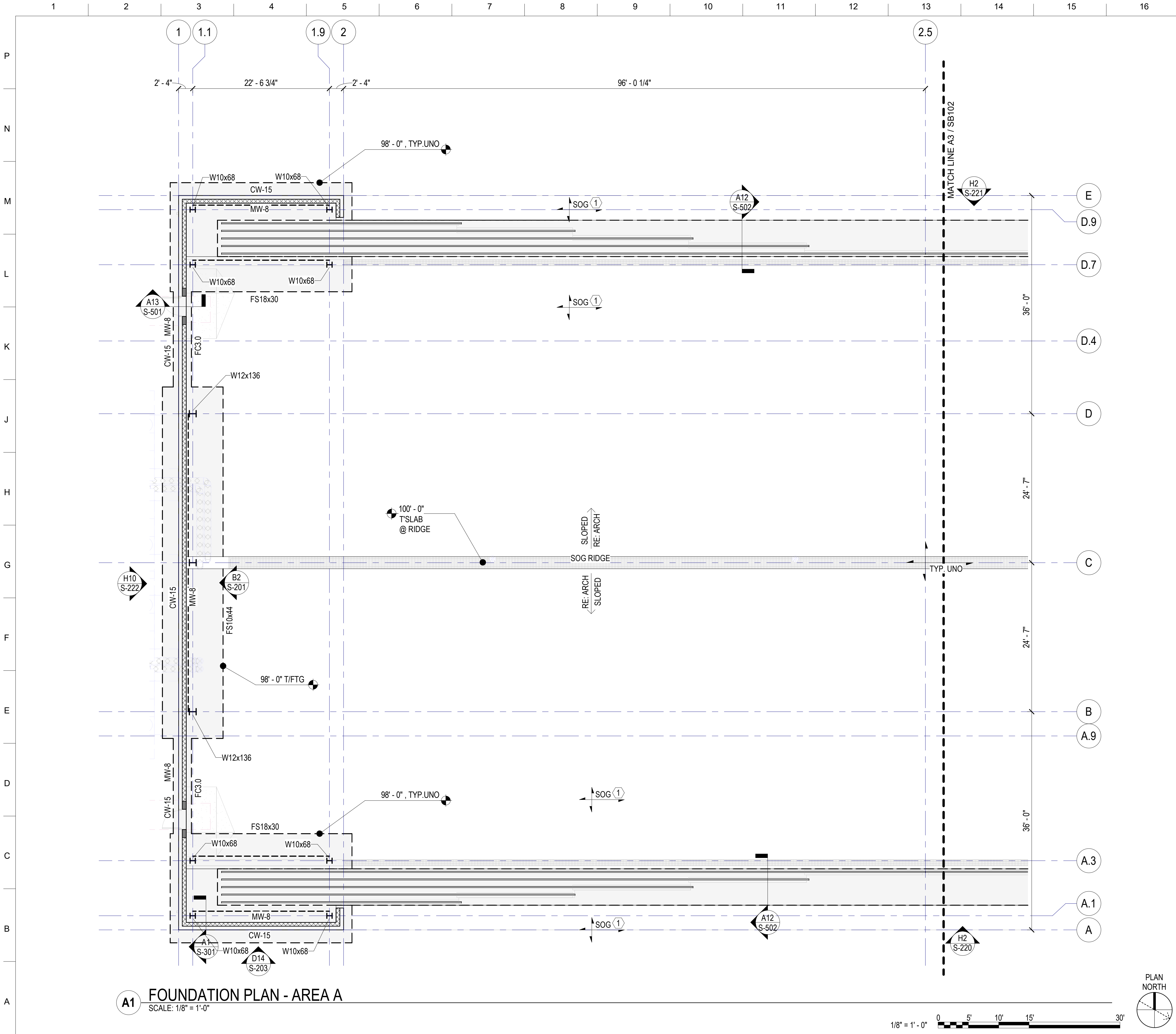
MARK	DESCRIPTION	DATE

DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	
KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110	

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.37	OVERALL FOUNDATION PLAN
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SHEET ID SB100

FOR REVIEW



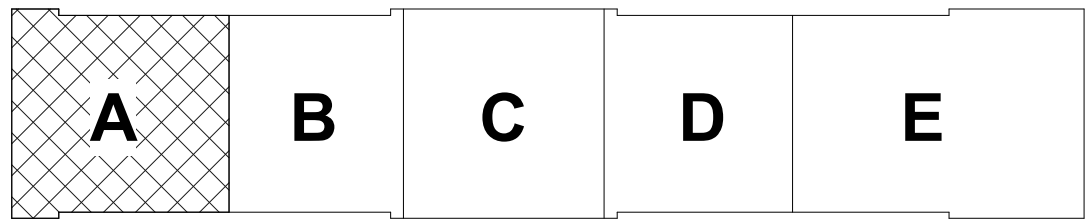
GENERAL NOTES

- SEE SHEETS S-001 TO S-005 FOR GENERAL NOTES AND DESIGN CRITERIA.
- SEE ARCHITECTURAL, CIVIL, AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
- TYPICAL TOP OF SLAB ELEVATION = RE: CIVIL AND ARCH. THIS IS THE DATUM 100'-0". ALL ELEVATIONS ARE REFERENCED FROM THIS ELEVATION.
- FOUNDATIONS ARE SPREAD, STRIP, MAT FOOTINGS. ALL FOOTINGS TO BE CENTERED BELOW WALLS AND COLUMNS (OR COLUMN GROUP) UNLESS NOTED OTHERWISE.
- ALL TOP OF FOOTING ELEVATIONS = 98'-0" UNLESS NOTED OTHERWISE.
- ALL EXTERIOR FOOTINGS MUST BEAR AT OR BELOW MINIMUM BEARING DEPTH AS SPECIFIED IN DESIGN CRITERIA SECTION. PROVIDE ADDITIONAL FOOTING STEPS AS REQUIRED. CONTRACTOR SHALL COORDINATE ALL FOOTING STEP LOCATIONS.
- RE: PLAN FOR SLAB ON GRADE THICKNESS AND REINFORCING.
- FOR DIMENSIONS NOT SHOWN ON THESE SHEETS, COORDINATE WALL OPENINGS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- FOR UTILITIES PASSING BELOW FOOTINGS, SEE L17/S-501. CONTRACTOR MUST COORDINATE ALL UTILITY AND FOOTING STEP LOCATIONS. SEE L13/S-501 FOR TYPICAL FOOTING STEP DETAIL AND D9/S-501 FOR UTILITY PENETRATION THROUGH FOUNDATION WALLS.
- ALL FOOTINGS AT THE END OF A WALL THAT DOES NOT END IN A CORNER CONDITION SHALL EXTEND 1'-0" PAST WALL END.
- CMU WALLS ARE MW8 UNLESS NOTED OTHERWISE.
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- RE: ARCH DRAWINGS FOR SLAB SLOPES AND DRAINS, ETC.

KEYNOTES

- 12 1/2" THICK UNREINFORCED SLAB ON GRADE ON 15 MIL VAPOR RETARDER OVER 6" MIN OF CRUSHED STONE AGGREGATE AND 12" MIN COMPACTED NON-EXPANSIVE FILL (SEE GEOTECH REPORT). SLAB ON GROUND JOINTS MUST BE LOCATED NO GREATER THAN 20 FT ON CENTER EACH DIRECTION, RE: E6/S-502 AND E10/S-502.)
- 6" THICK REINFORCED SLAB ON GRADE W/ # 4 @ 18" OC EACH WAY ON 15 MIL VAPOR RETARDER OVER 6" MIN OF CRUSHED STONE AGGREGATE AND 12" MIN COMPACTED NON-EXPANSIVE FILL (SEE GEOTECH REPORT). SLAB ON GROUND JOINTS MUST BE LOCATED NO GREATER THAN 15 FT ON CENTER EACH DIRECTION, RE: E6/S-502 AND E10/S-502.)
- 8" THICK UNREINFORCED CONC. SLAB OVER CONC. MAT FOOTING AT HANGAR DOOR SUPPORT RAILS. RE: A12/S-502
- RE: H9/S-501 FOR SLAB REINFORCING AT OPENINGS AND RE-ENTRANT CORNERS, TYP

KEY PLAN



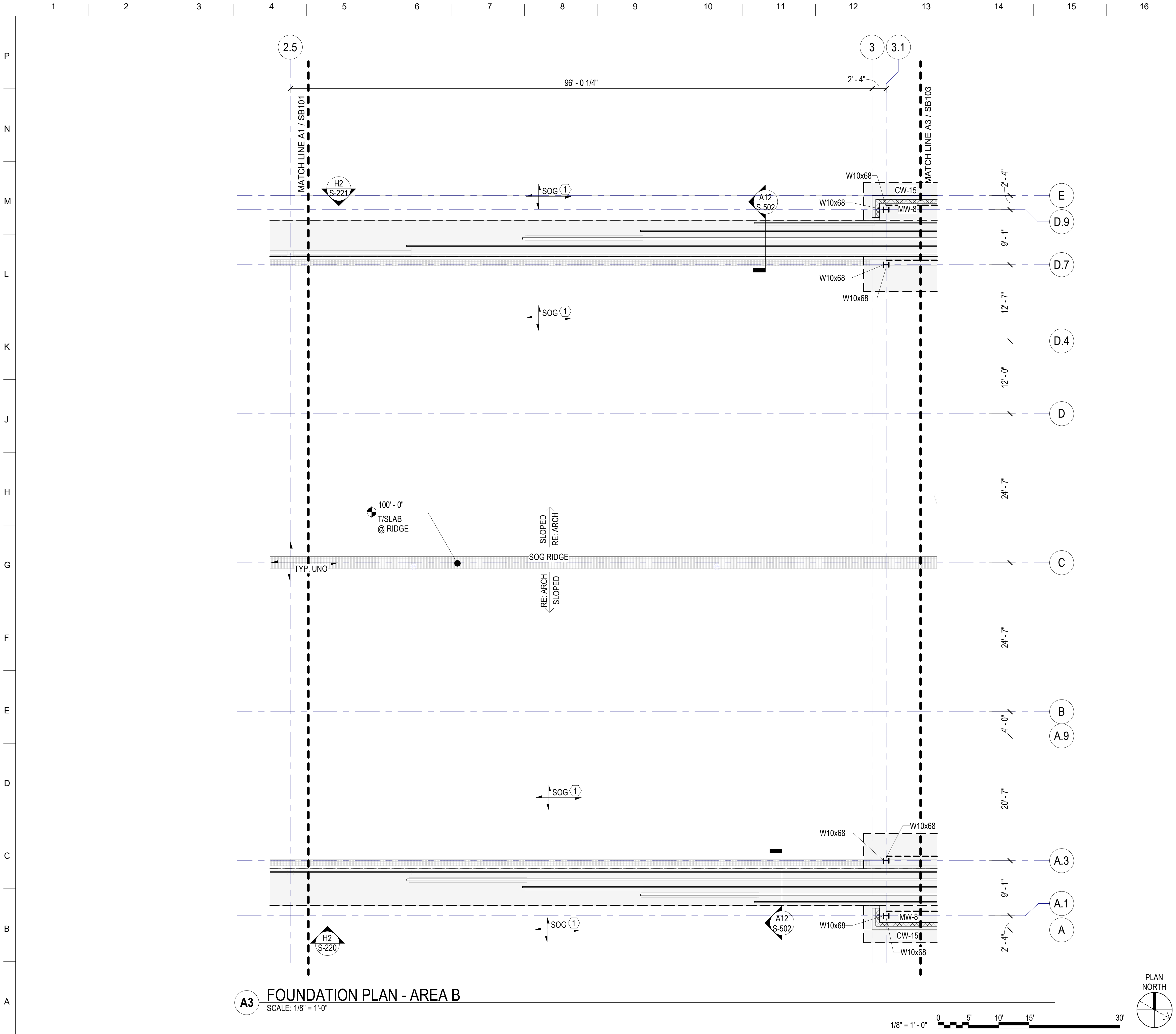
DATE		DESCRIPTION	MARK

ISSUE DATE: JULY 17, 2025	SOLICITATION NO.:	CONTRACT NO.:
DESIGNED BY: A. VALENCIA	DRAWN BY: R. CARLSON	CHECKED BY: D. CLAYSON
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT		FORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110
		SIZE: ANSI D

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 484.37	FOUNDATION PLAN - AREA A
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SHEET ID
SB101

FOR REVIEW



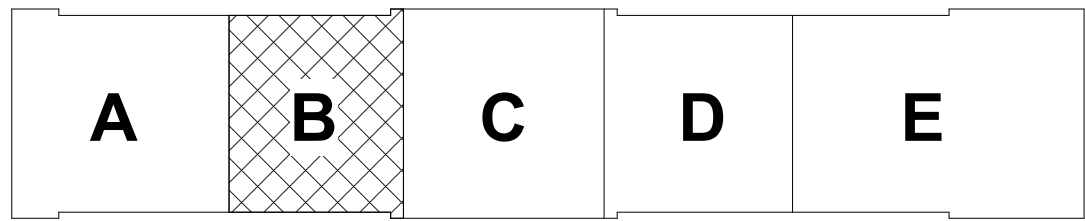
GENERAL NOTES

- SEE SHEETS S-001 TO S-005 FOR GENERAL NOTES AND DESIGN CRITERIA.
- SEE ARCHITECTURAL, CIVIL, AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
- TYPICAL TOP OF SLAB ELEVATION = RE: CIVIL AND ARCH. THIS IS THE DATUM 100'-0". ALL ELEVATIONS ARE REFERENCED FROM THIS ELEVATION.
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KEY PLAN



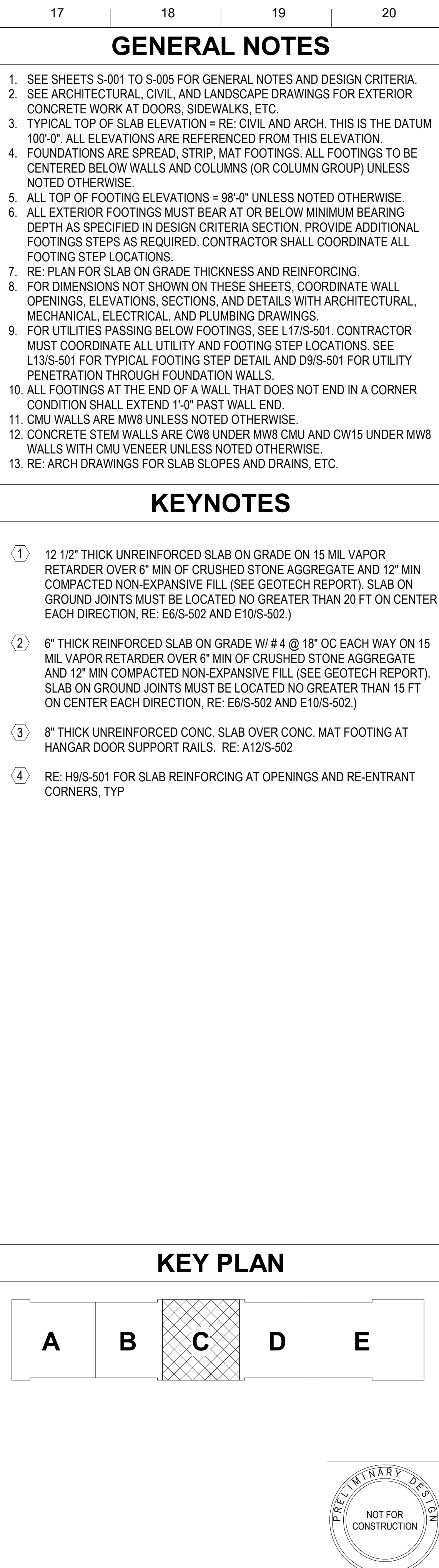
MARK					DESCRIPTION	DATE

DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	
KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110	

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494137	FOUNDATION PLAN - AREA B
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SHEET ID
SB102

FOR REVIEW




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- ④ RE: H9/S-501 FOR SLAB REINFORCING AT OPENINGS AND RE-ENTRANT CORNERS, TYP

A diagram of a five-car train. The cars are labeled A, B, C, D, and E from left to right. Car C is shaded with a cross-hatch pattern.



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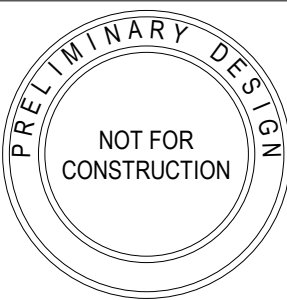
DESIGNED BY: R. CARLSON DRAWN BY: R. CARLSON CHECKED BY: D. CLAYSON DATE: 12/1/01	ISSUE DATE: 12/1/01 SOLICITATION NO.: CONTRACT NO.:
US ARMY CORPES OF ENGINEERS LOS ANGELES DISTRICT KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110	
SIZE: ANS I/D	

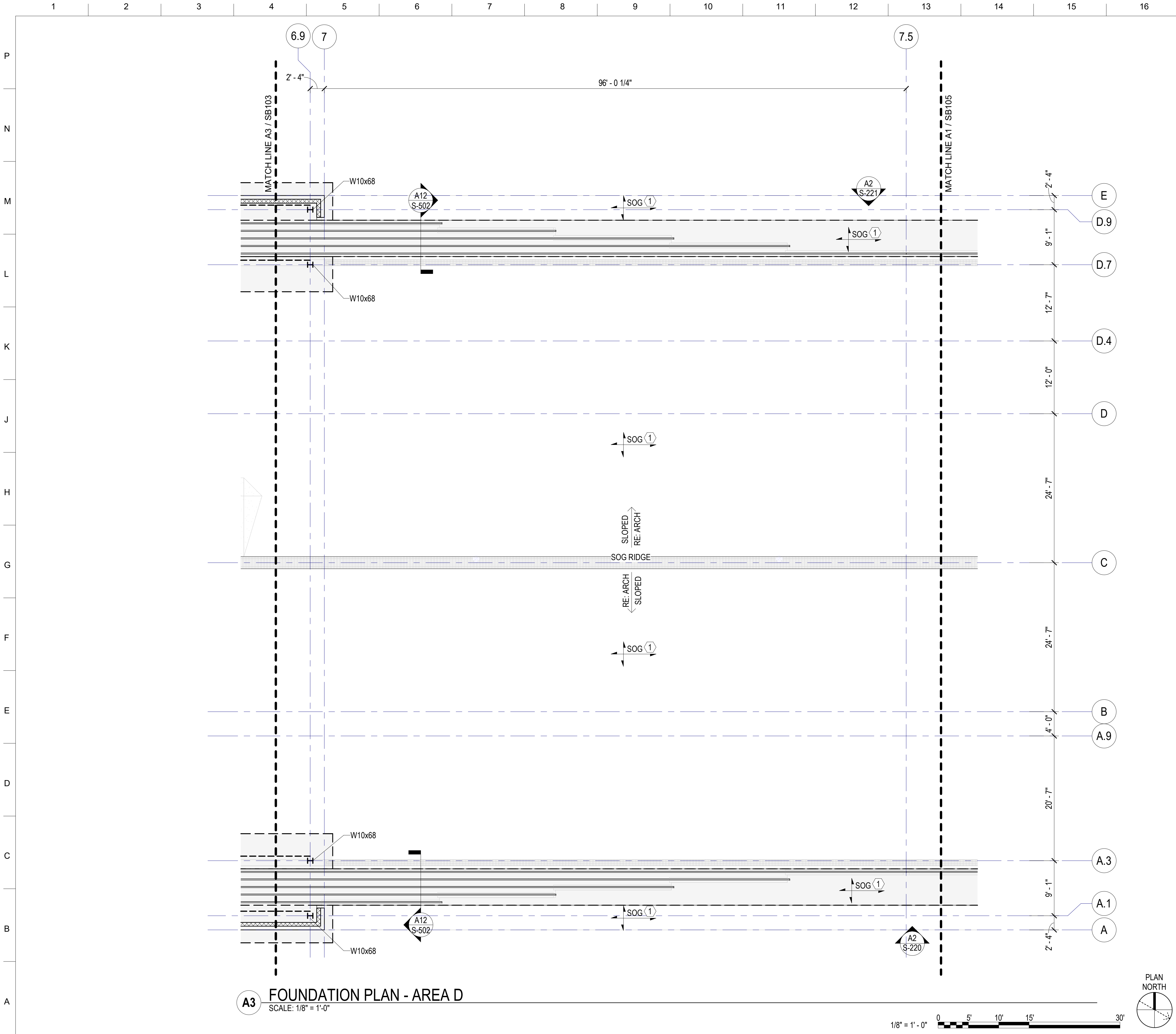
CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494137

SHEET ID

SB103

FOR REVIEW





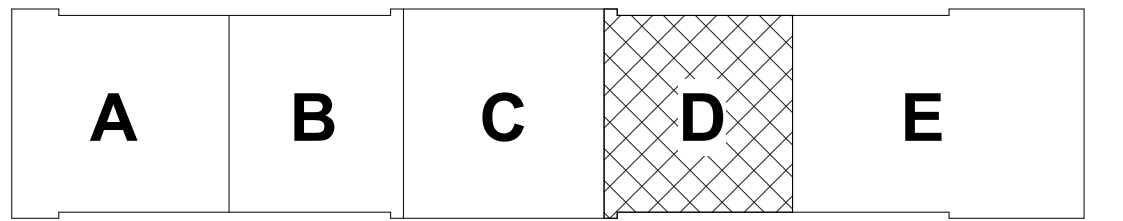
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KEY PLAN



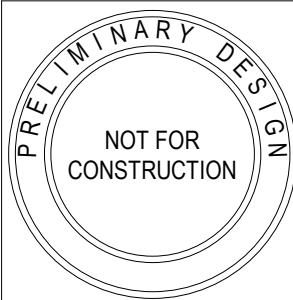
US Army Corps
of Engineers ®

DATE		DESCRIPTION	MARK

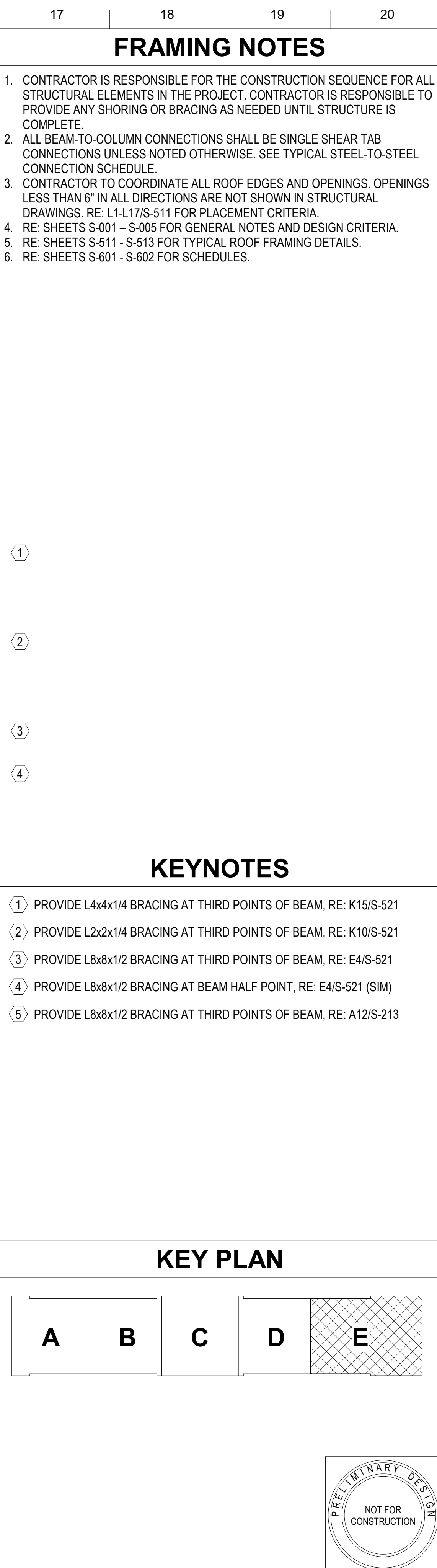
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025	SOLICITATION NO.:	CONTRACT NO.:	ANSI D
	CHECKED BY: R. CARLSON				
	D. CLAYSON				
	SUBMITTED BY: K. BASS-CLARK				
	SIZE: 1/8" X 1/2"				
KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110					

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.37	FOUNDATION PLAN - AREA D
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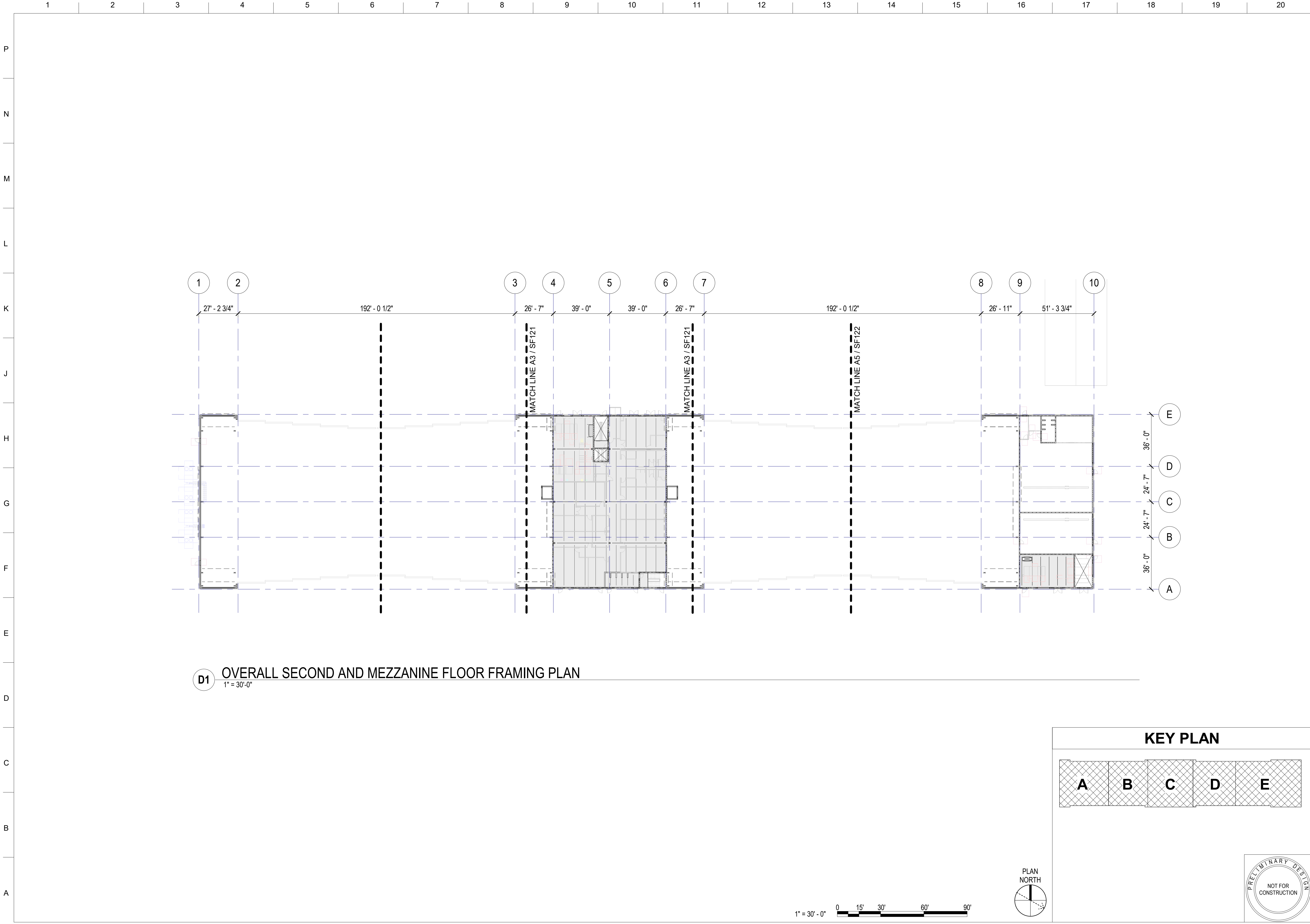
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SB104



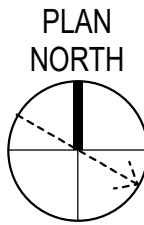
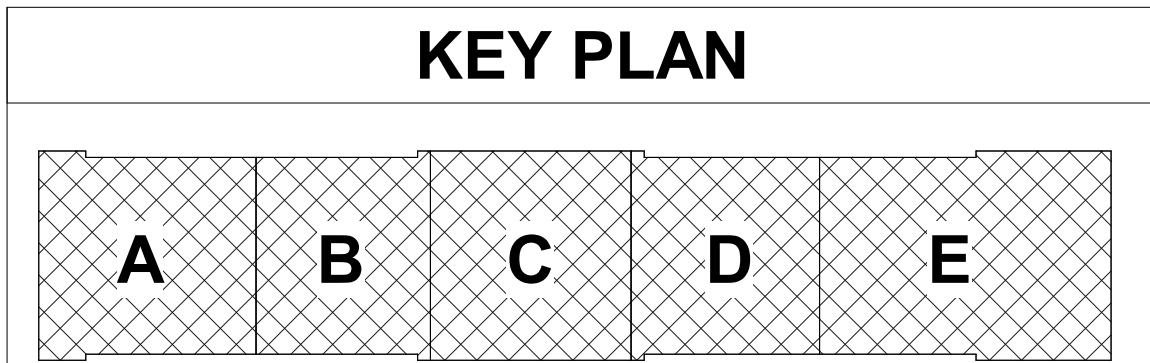
FOR REVIEW



FOR REVIEW

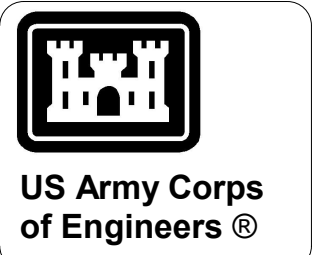
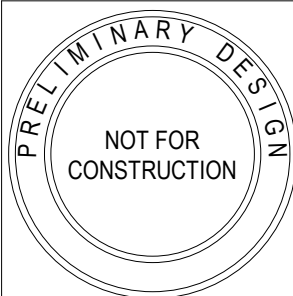


D1 OVERALL SECOND AND MEZZANINE FLOOR FRAMING PLAN
1" = 30'-0"



1" = 30' - 0"

0 15' 30' 60' 90'



MARK	DESCRIPTION	DATE

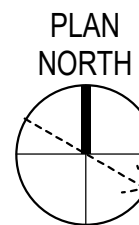
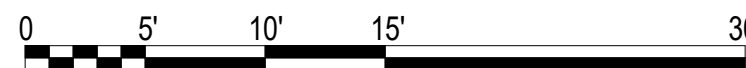
DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	

US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110
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CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494137
OVERALL SECOND AND MEZZANINE FLOOR
FRAMING PLAN

SHEET ID
SF120

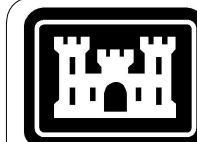
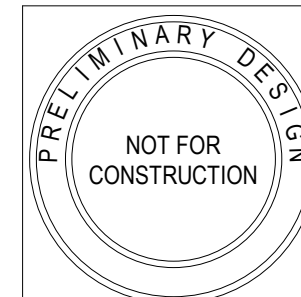
FOR REVIEW


$$1/8'' = 1'-0''$$
$$1/8'' = 1' - 0''$$


1. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION SEQUENCE FOR ALL STRUCTURAL ELEMENTS IN THE PROJECT. CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY SHORING OR BRACING AS NEEDED UNTIL STRUCTURE IS COMPLETE.
2. ALL BEAM-TO-COLUMN CONNECTIONS SHALL BE SINGLE SHEAR TAB CONNECTIONS UNLESS NOTED OTHERWISE. SEE TYPICAL STEEL-TO-STEEL CONNECTION SCHEDULE.
3. SHOP DRAWINGS MUST BE PRODUCED FOR ALL JOISTS AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. CALCULATIONS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS AND SHALL BEAR THE STAMP OF A LICENSED ENGINEER.
4. OPEN WEB STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL, AXIAL (W/L/E/Q), LATERAL, POINT, AND UNIFORM LOADS SHOWN ON PLANS AND IN DETAILS. LOADS SHOWN ARE ASD MAGNITUDE LOADS UNLESS NOTED OTHERWISE.
5. THE STEEL JOIST SUPPLIER IS RESPONSIBLE IN DESIGNING ALL JOISTS, INCLUDING SLOPE, CAMBER, BEARING ENDS, ETC. ALL DESIGNS SHALL BE IN ACCORDANCE WITH SJI SPECIFICATIONS WITH A MAXIMUM DEFLECTION OF JOISTS OF $TL/180$ AND $LL/240$.
6. HORIZONTAL AND CROSS BRIDGING SHALL BE SIZED, LOCATED, AND SUPPLIED BY THE JOIST MANUFACTURER.
7. ALL STABILIZER PLATES SHALL BE 6"x6"xCHORD GAP-1/4" WITH A 3/4" DIAMETER HOLE, AND MUST EXTEND 3" MINIMUM BELOW THE BOTTOM CHORD.
8. ALL CONCENTRATED LOADS GREATER THAN 100 POUNDS SUPPORTED BY OPEN WEB JOISTS SHALL BE LOCATED WITHIN 6" OF PANEL POINT. OTHERWISE, JOIST SHALL BE REINFORCED WITH AN ADDITIONAL WEB MEMBER. (RE: H1/S-511)
9. BOTTOM CHORD OF ANY JOIST SHALL NOT BE USED TO BRACE ANY MISC EQUIPMENT.
10. JOIST BRIDGING SHALL NEVER BE USED TO SUPPORT HANGING LOADS.
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16. RE: SHEETS S-001 – S-005 FOR GENERAL NOTES AND DESIGN CRITERIA.
17. RE: SHEETS S-511 - S-513 FOR TYPICAL ROOF FRAMING DETAILS.
18. RE: SHEETS S-601 - S-602 FOR SCHEDULES.

- ① HANGING FAN ON BOTTOM CHORD OF TRUSS ON GRID D. APPROXIMATE WEIGHT OF 300LBS (DL ASD). RE: ARCH/MEP FOR EXACT LOCATION. RE: MFR FOR ATTACHMENT
- ② PROVIDE L4x4x1/4 BRACING AT THIRD POINTS OF BEAM, RE: K15/S-521
- ③ PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: E4/S-521
- ④ PROVIDE L8x8x1/2 BRACING AT BEAM HALF POINT, RE: E4/S-521 (SIM)
- ⑤ PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: A12/S-213

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of Engineers®**

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US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
	DRAWN BY: R. CARLSON	SOLICITATION NO.:
KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110	CHECKED BY: D. CLAYSON	CONTRACT NO.:
	SUBMITTED BY: P. PASZCZUK	
	SIGNED:	

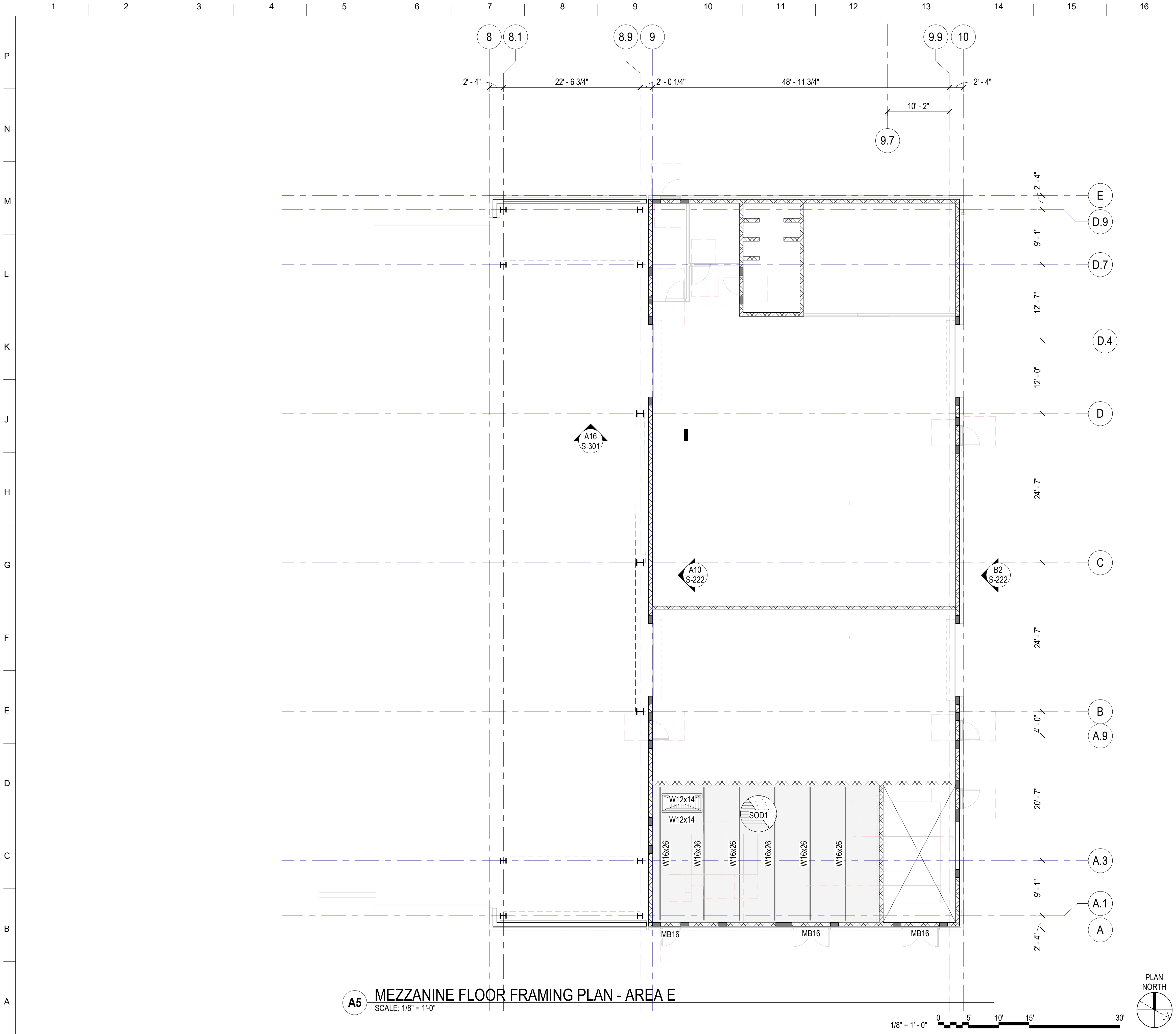
CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2

494137

SHEET ID

SF121

FOR REVIEW



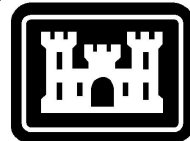
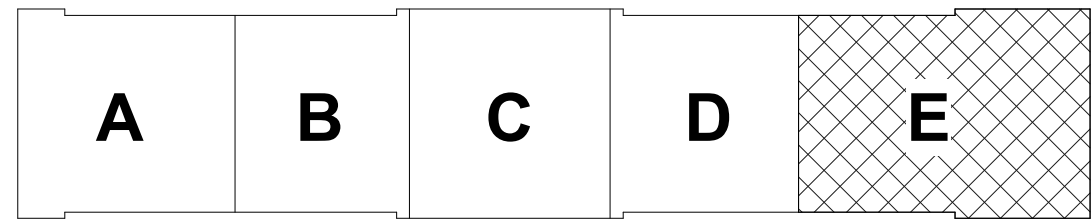
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- PROVIDE L4x4x1/4 BRACING AT THIRD POINTS OF BEAM, RE: K15/S-521
- PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: E4/S-521
- PROVIDE L8x8x1/2 BRACING AT BEAM HALF POINT, RE: E4/S-521 (SIM)
- PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: A12/S-213

KEY PLAN



US Army Corps
of Engineers ®

MARK	DESCRIPTION	DATE

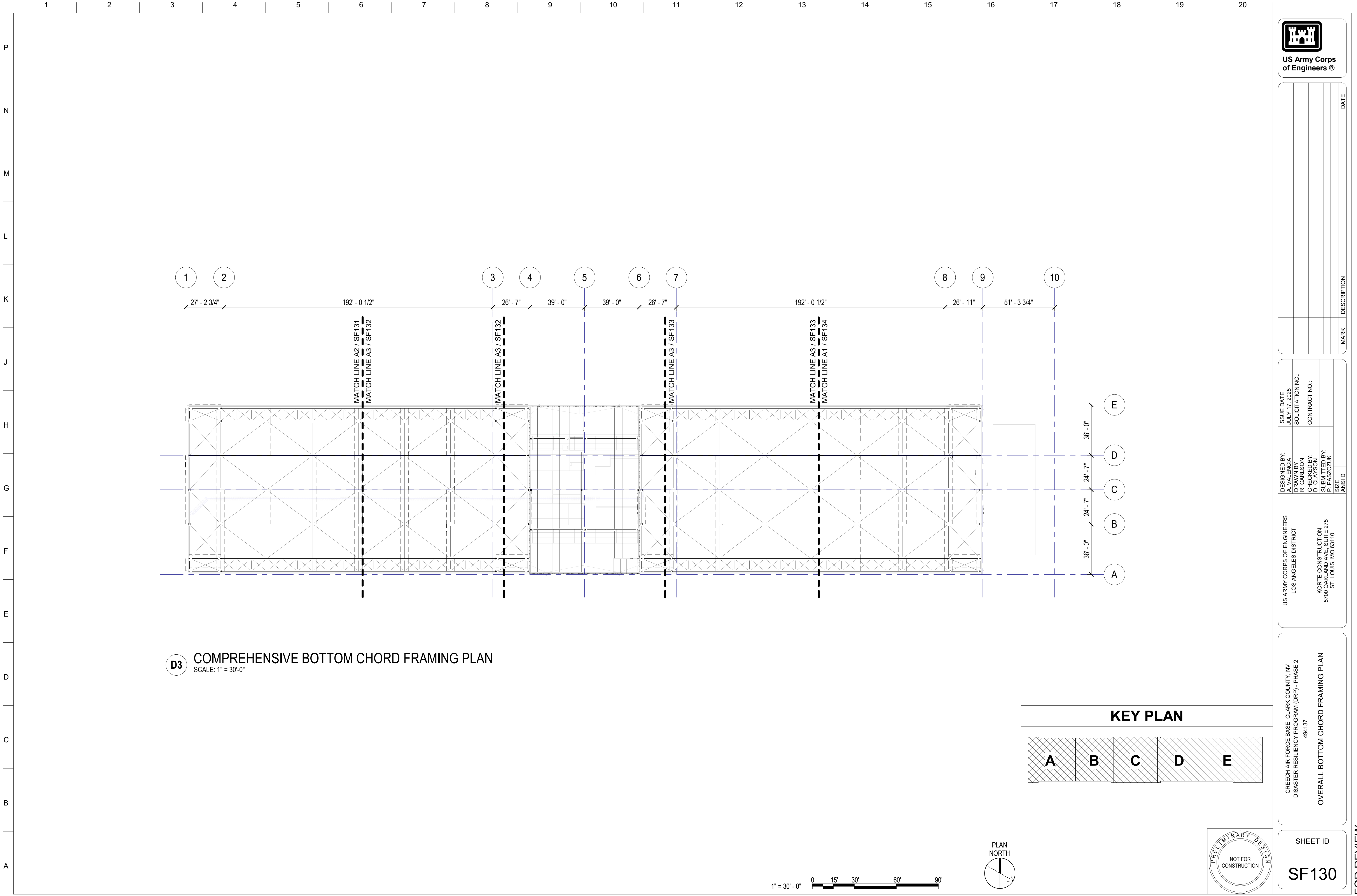
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DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	

US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110
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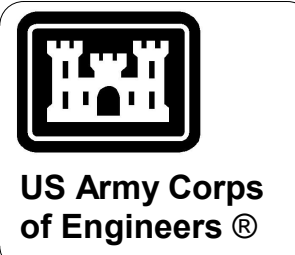
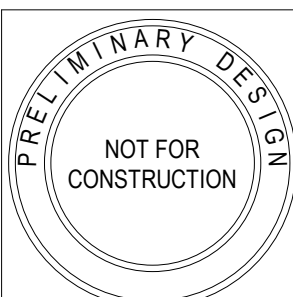
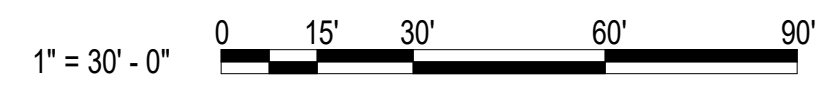
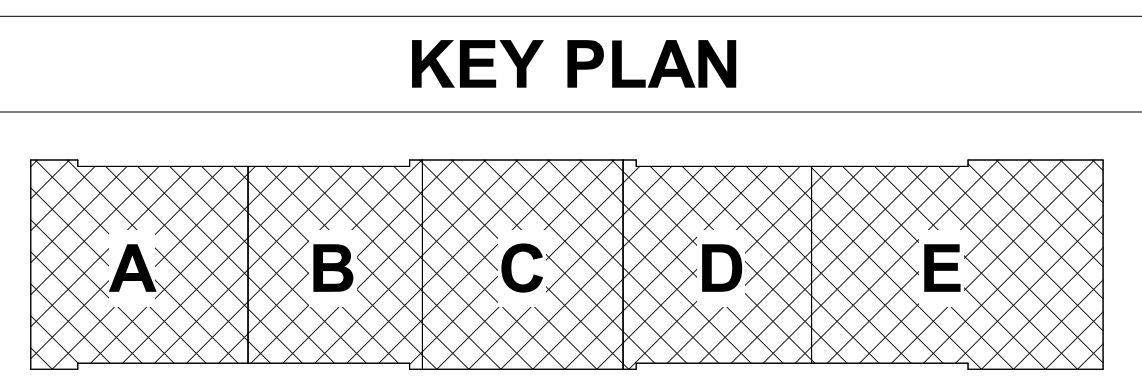
CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494137 MEZZANINE FLOOR FRAMING PLAN - AREA E

SHEET ID SF122

FOR REVIEW



D3 COMPREHENSIVE BOTTOM CHORD FRAMING PLAN
SCALE: 1" = 30'-0"



MARK	DESCRIPTION	DATE

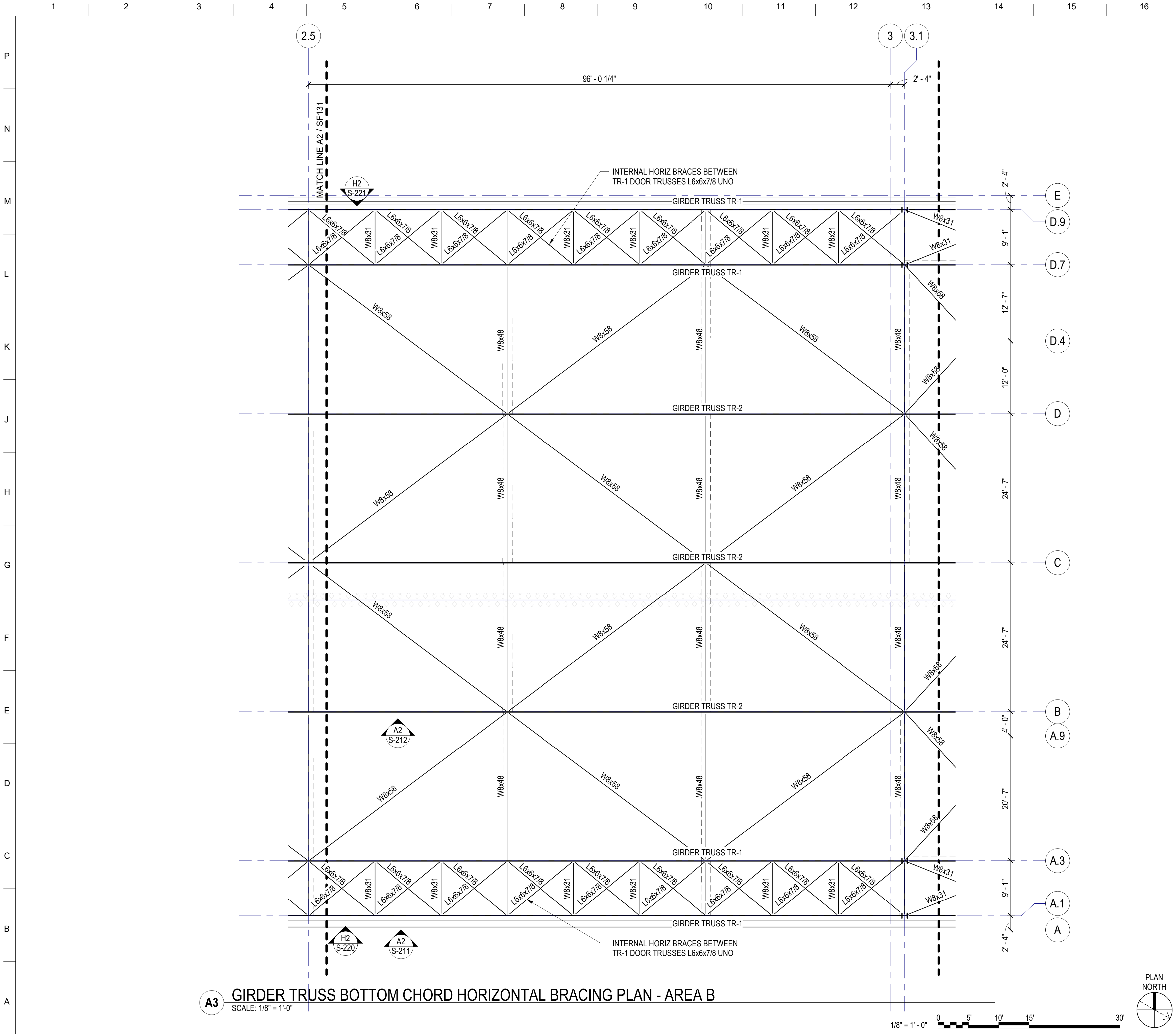
DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025	SOLICITATION NO.:	CONTRACT NO.:
DRAWN BY: R. CARLSON			
CHECKED BY: D. CLAYSON			
SUBMITTED BY: P. PASZCZUK			
SIZE: ANSI D			

US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110
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CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494137
OVERALL BOTTOM CHORD FRAMING PLAN

SHEET ID
SF130

FOR REVIEW



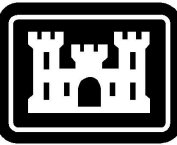
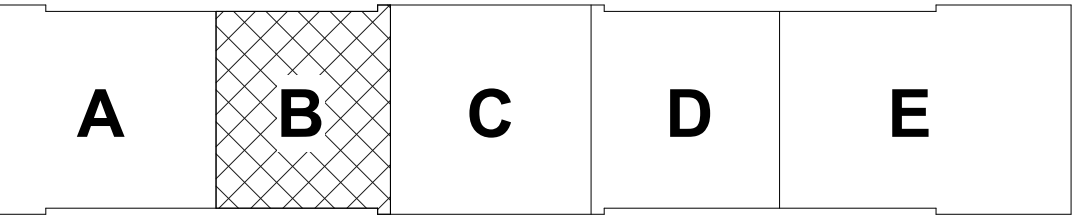
FRAMING NOTES

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- 3. CONTRACTOR TO COORDINATE ALL ROOF EDGES AND OPENINGS. OPENINGS LESS THAN 6" IN ALL DIRECTIONS ARE NOT SHOWN IN STRUCTURAL DRAWINGS. RE: L1-L17/S-511 FOR PLACEMENT CRITERIA.
- 4. RE: SHEETS S-001 - S-005 FOR GENERAL NOTES AND DESIGN CRITERIA.
- 5. RE: SHEETS S-511 - S-513 FOR TYPICAL ROOF FRAMING DETAILS.
- 6. RE: SHEETS S-601 - S-602 FOR SCHEDULES.

KEYNOTES

- ① PROVIDE L4x4x1/4 BRACING AT THIRD POINTS OF BEAM, RE: K15/S-521
- ② PROVIDE L2x2x1/4 BRACING AT THIRD POINTS OF BEAM, RE: K10/S-521
- ③ PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: E4/S-521
- ④ PROVIDE L8x8x1/2 BRACING AT BEAM HALF POINT, RE: E4/S-521 (SIM)
- ⑤ PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: A12/S-213

KEY PLAN



US Army Corps
of Engineers ®

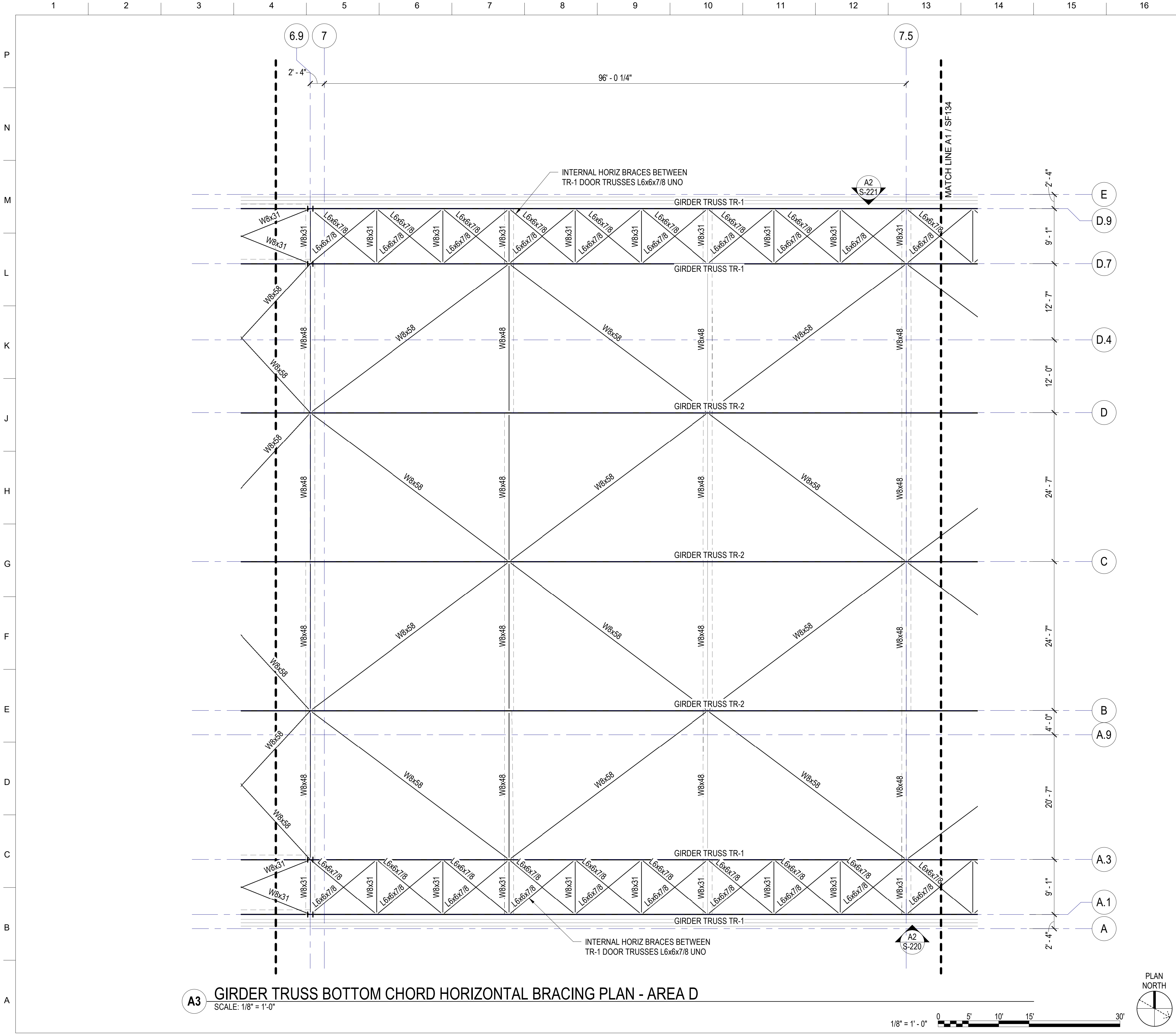
MARK					DESCRIPTION

DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	
KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110	

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.37	BOTTOM CHORD FRAMING PLAN - AREA B
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SHEET ID
SF132

FOR REVIEW



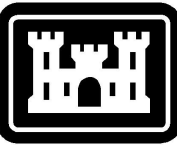
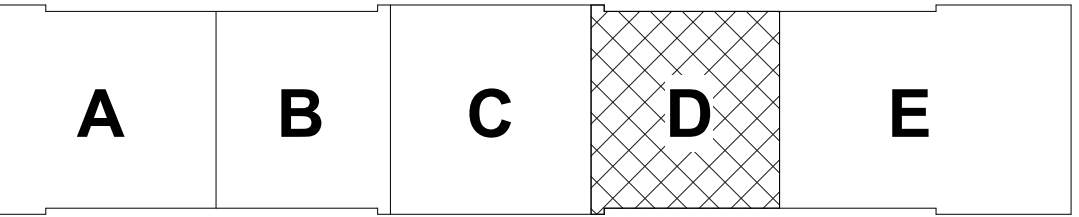
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6. RE: SHEETS S-601 - S-602 FOR SCHEDULES.

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- ⑤ PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: A12/S-213

KEY PLAN



US Army Corps
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MARK				DESCRIPTION	DATE

DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025	
	SOLICITATION NO.:	
	DRAWN BY: R. CARLSON	
	CONTRACT NO.:	
CHECKED BY: D. CLAYSON	SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D		

US ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

KORTE CONSTRUCTION
5700 OAKLAND AVE. SUITE 275
ST. LOUIS, MO 63110

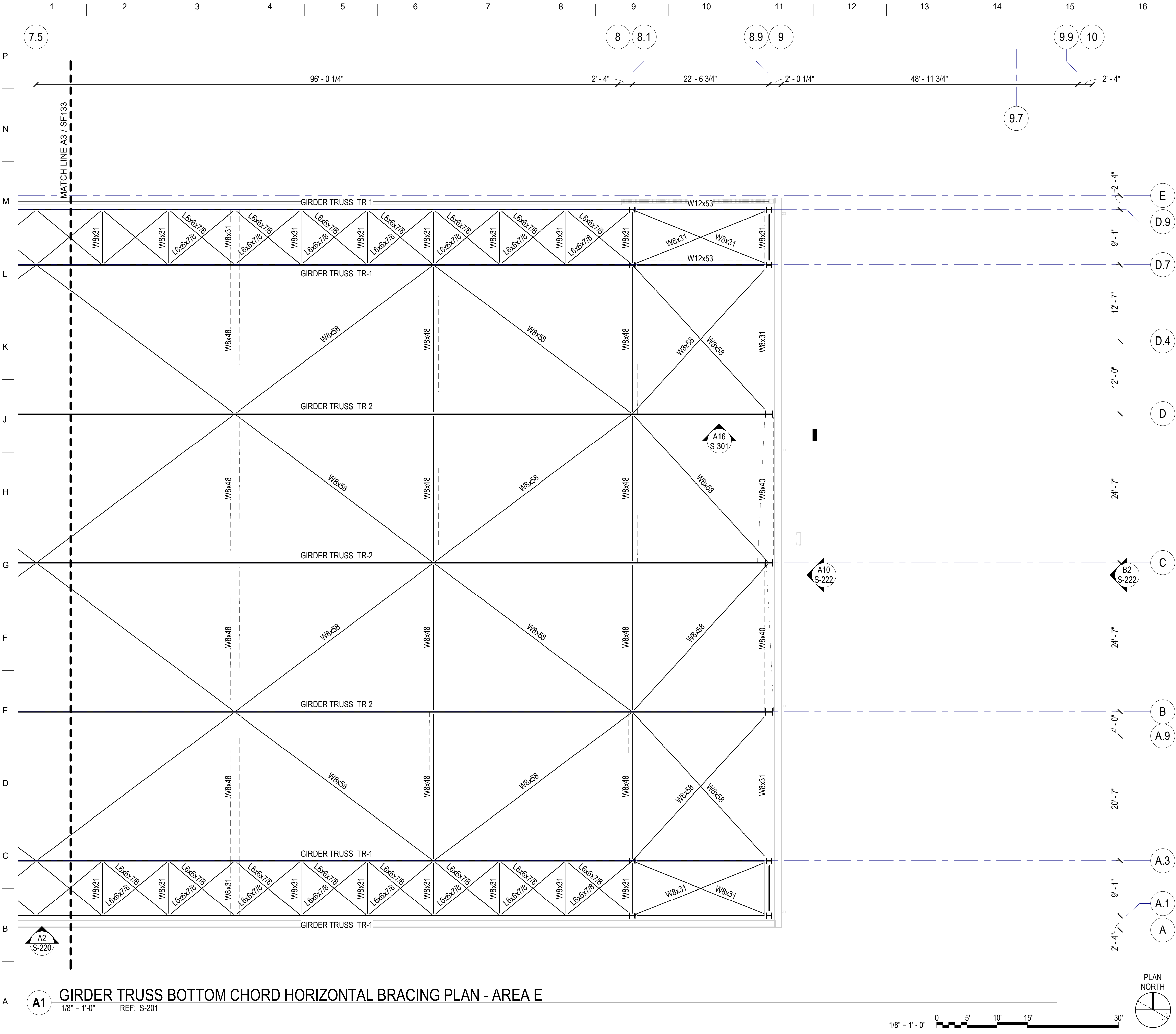
CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494.37

BOTTOM CHORD FRAMING PLAN - AREA D

SHEET ID

SF133

FOR REVIEW



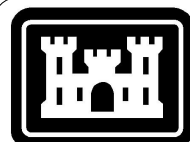
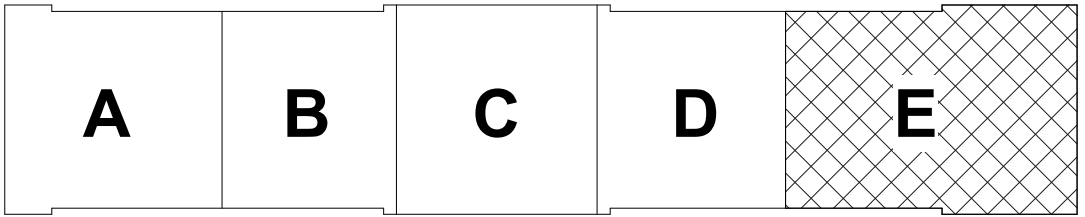
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- ④ PROVIDE L8x8x1/2 BRACING AT BEAM HALF POINT, RE: E4/S-521 (SIM)
- ⑤ PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: A12/S-213

KEY PLAN



US Army Corps
of Engineers ®

DATE	DESCRIPTION	MARK

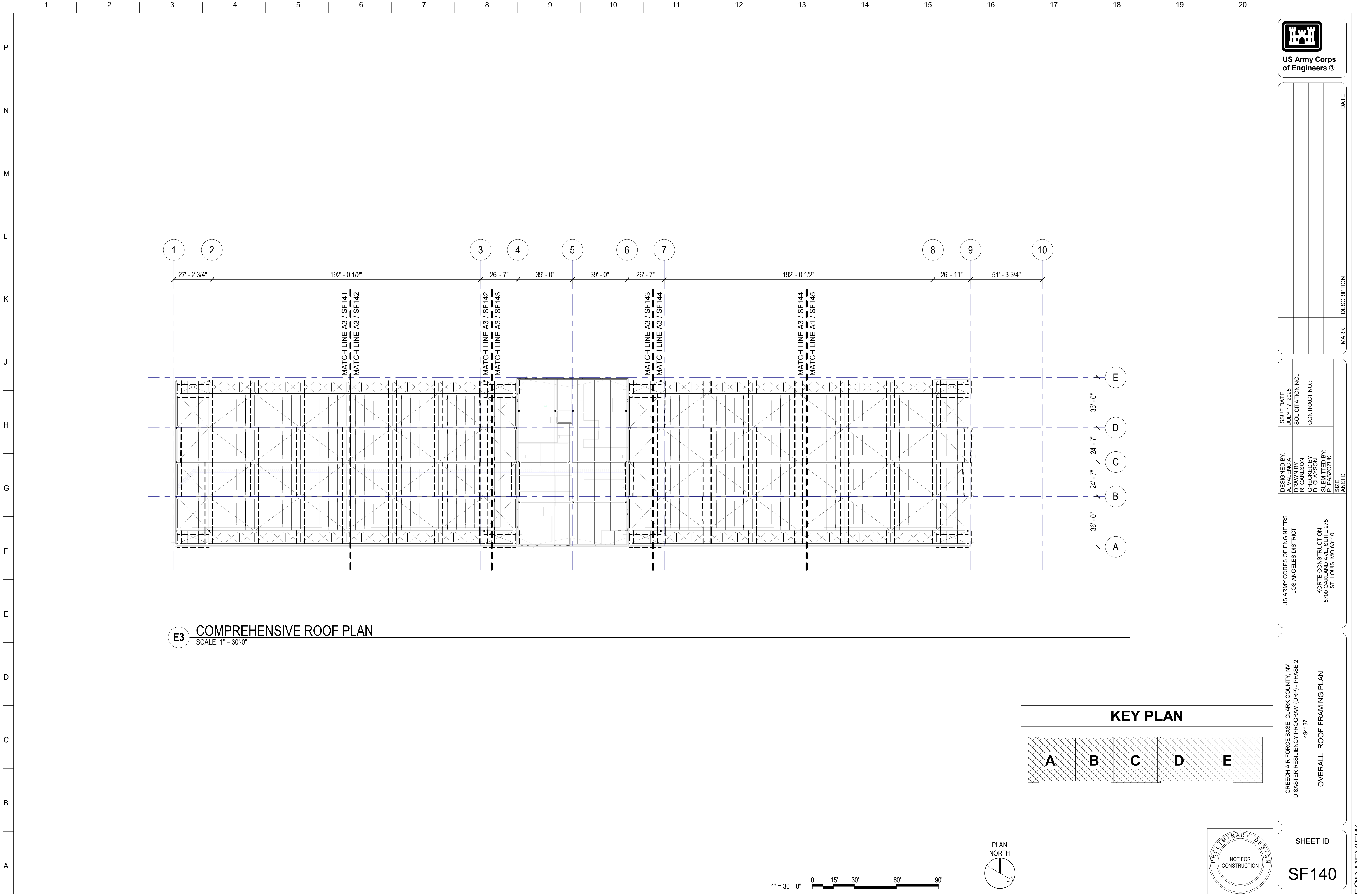
DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	

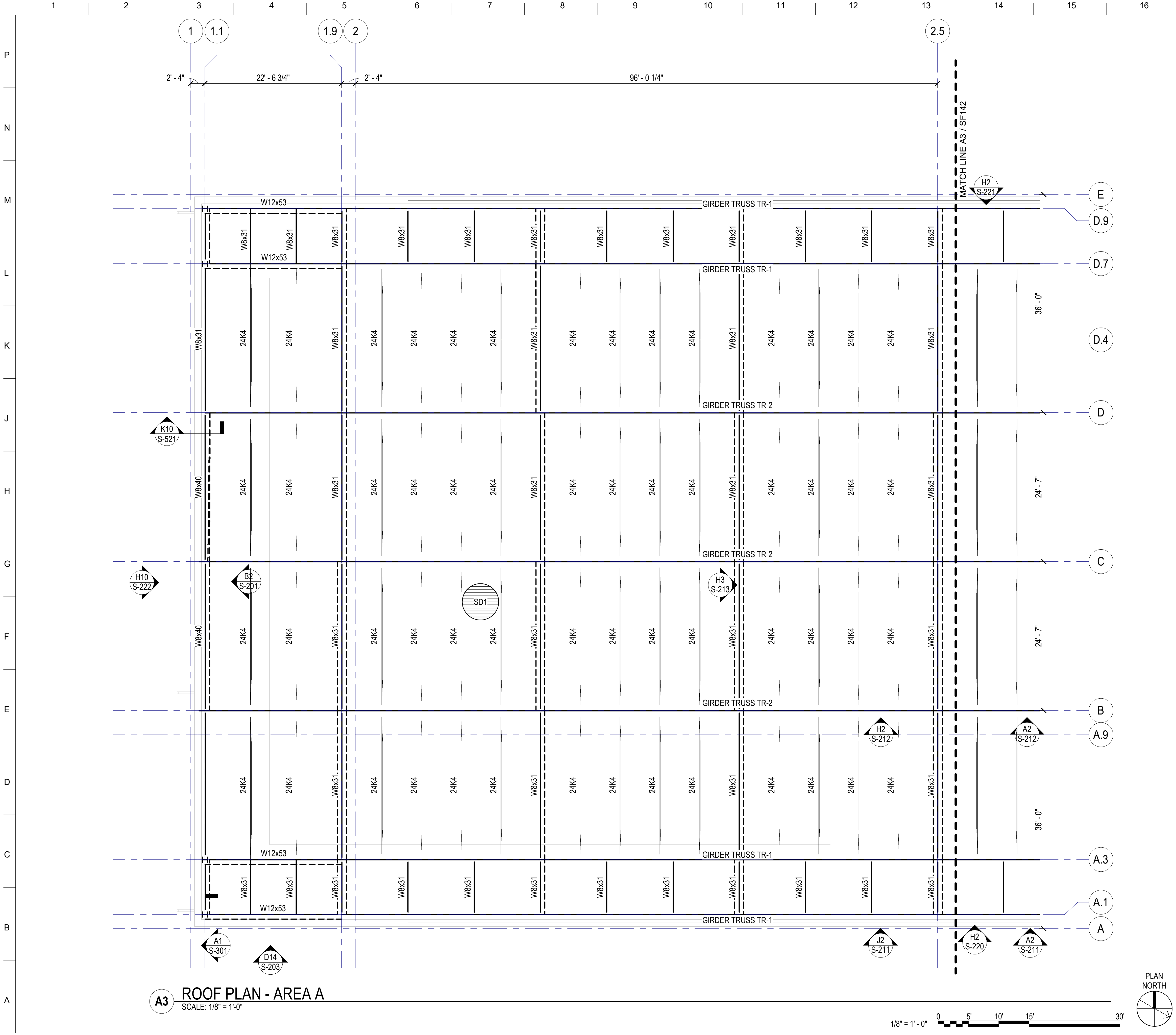
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110
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CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.37	BOTTOM CHORD FRAMING PLAN - AREA E
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SHEET ID
SF134

FOR REVIEW





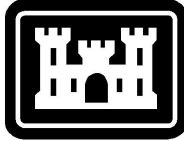
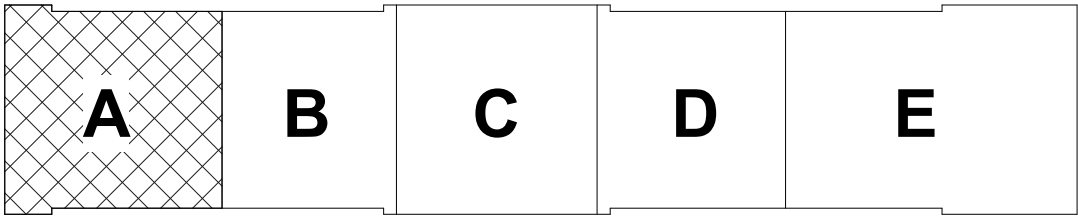
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6. HORIZONTAL AND CROSS BRIDGING SHALL BE SIZED, LOCATED, AND SUPPLIED BY THE JOIST MANUFACTURER.
7. ALL STABILIZER PLATES SHALL BE 6"x6"xCHORD GAP-1/4" WITH A 3/4" DIAMETER HOLE, AND MUST EXTEND 3" MINIMUM BELOW THE BOTTOM CHORD.
8. ALL CONCENTRATED LOADS GREATER THAN 100 POUNDS SUPPORTED BY OPEN WEB JOISTS SHALL BE LOCATED WITHIN 6" OF PANEL POINT. OTHERWISE, JOIST SHALL BE REINFORCED WITH AN ADDITIONAL WEB MEMBER. (RE: H1/S-511)
9. BOTTOM CHORD OF ANY JOIST SHALL NOT BE USED TO BRACE ANY MISC EQUIPMENT.
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11. JOIST LOADS SHOWN ON PLAN WITH THE JOIST DESIGNATION "K (XX/XX)" ACCOUNTS FOR TOTAL LOAD/LIVE LOAD (ASD).
12. OPEN WEB STEEL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT DUE TO WIND LOADING, RE: SHEET S-005.
13. STEEL JOISTS SHALL BE DESIGNED FOR AN ADDITIONAL VERT LIVE LOAD (ASD) OF +/-500# AT EACH PANEL POINT
14. STANDARD JOIST SEAT DEPTH SHALL BE 2 1/2". CONTRACTOR TO COORDINATE TOP OF GIRDERS USING 2 1/2" JOIST SEAT DEPTH UNO.
15. CONTRACTOR TO COORDINATE ALL ROOF EDGES AND OPENINGS. OPENINGS LESS THAN 6" IN ALL DIRECTIONS ARE NOT SHOWN IN STRUCTURAL DRAWINGS. RE: L1-L17/S-511 FOR PLACEMENT CRITERIA.
16. RE: SHEETS S-001 - S-005 FOR GENERAL NOTES AND DESIGN CRITERIA.
17. RE: SHEETS S-511 - S-513 FOR TYPICAL ROOF FRAMING DETAILS.
18. RE: SHEETS S-601 - S-602 FOR SCHEDULES.

KEYNOTES

- ① HANGING FAN ON BOTTOM CHORD OF TRUSS ON GRID D. APPROXIMATE WEIGHT OF 300LBS (DL ASD). RE: ARCH/MEP FOR EXACT LOCATION. RE: MFR FOR ATTACHMENT
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- ⑤ PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: A12/S-213

KEY PLAN



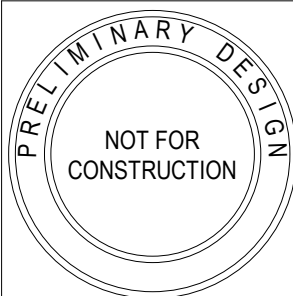
US Army Corps of Engineers®

MARK				DESCRIPTION	DATE

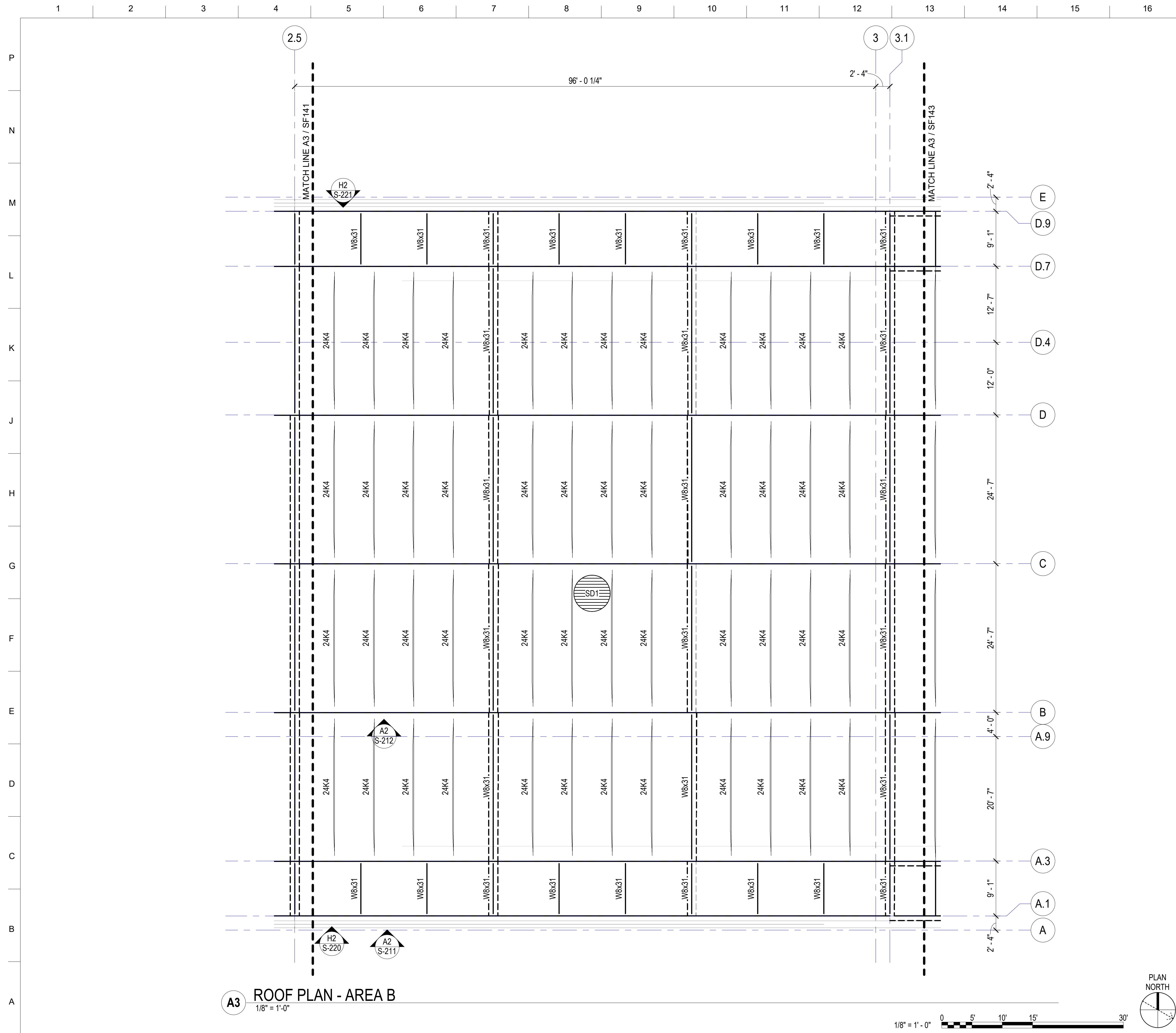
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DRAWN BY: R. CARLSON		SOLICITATION NO.:	
CHECKED BY: D. CLAYSON		CONTRACT NO.:	
SUBMITTED BY: P. PASZCZUK		KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110	
SIZE: ANSI D			

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494137	
ROOF PLAN - AREA A	

SHEET ID	
SF141	



FOR REVIEW



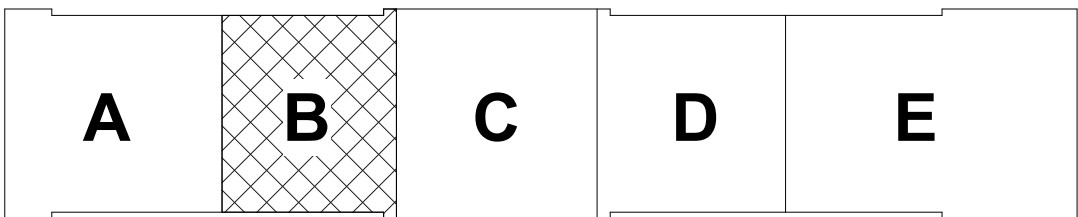
ROOF FRAMING NOTES

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9. BOTTOM CHORD OF ANY JOIST SHALL NOT BE USED TO BRACE ANY MISCELLANEOUS EQUIPMENT.
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16. RE: SHEETS S-001 - S-005 FOR GENERAL NOTES AND DESIGN CRITERIA.
17. RE: SHEETS S-511 - S-513 FOR TYPICAL ROOF FRAMING DETAILS.
18. RE: SHEETS S-601 - S-602 FOR SCHEDULES.

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- ⑤ PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: A12/S-213

KEY PLAN



**US Army Corps
of Engineers®**

[illegible]

DESIGNED BY: R. CARLSON	ISSUE DATE: 12/1/84
DRAWN BY: R. CARLSON	REVISION NO.:
CHECKED BY: D. CLAYSON	SOLICITATION NO.:
AUTHORIZED BY: P. HANCOCK	CONTRACT NO.:
SIZE: ANSI D	

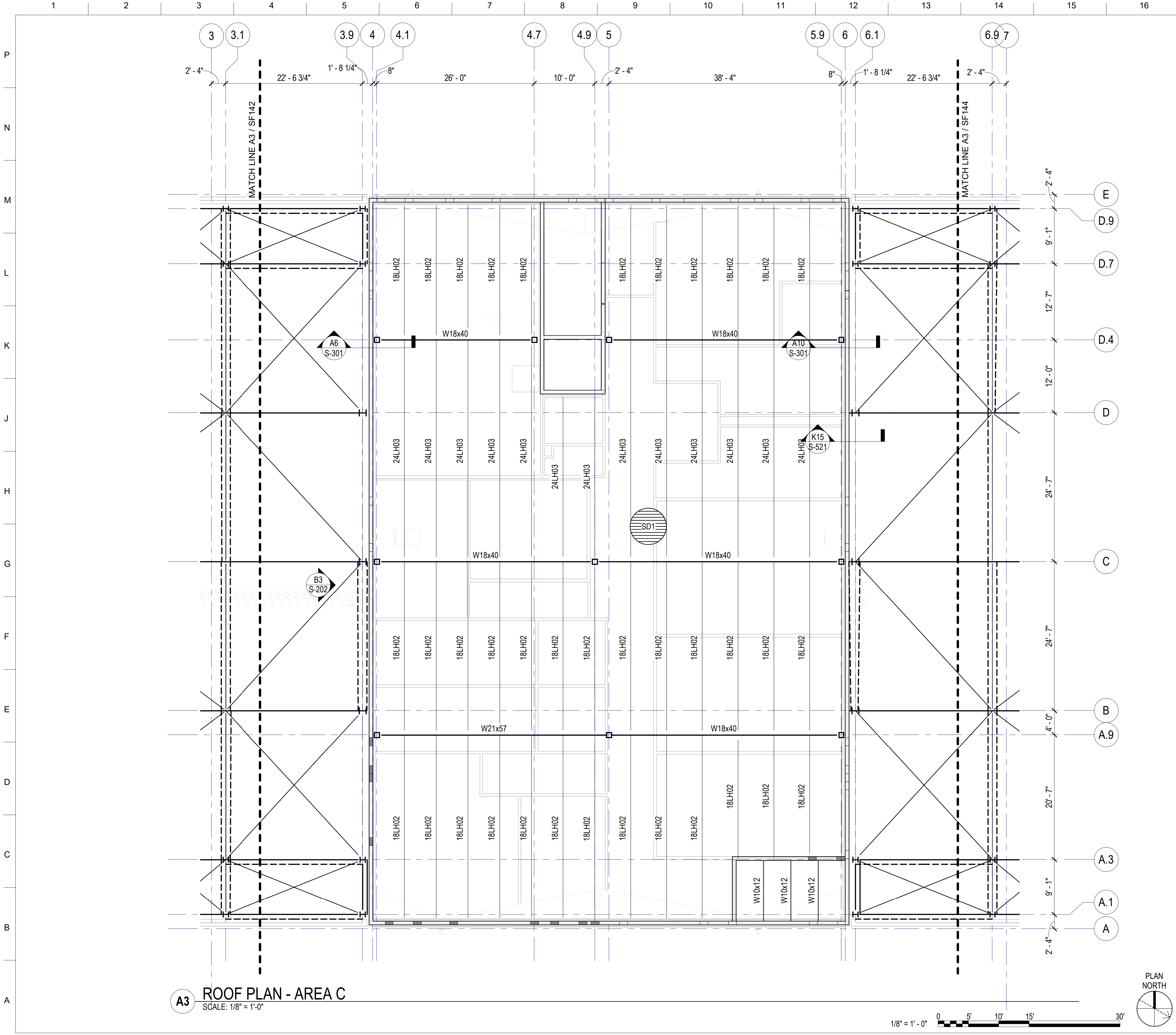
CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP): PHASE 2

ROOF PLAN - AREA B

SHEET ID

SF142

FOR REVIEW



A3 ROOF PLAN - AREA C
SCALE: 1/8" = 1'-0"

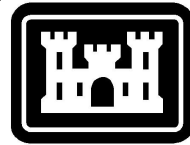
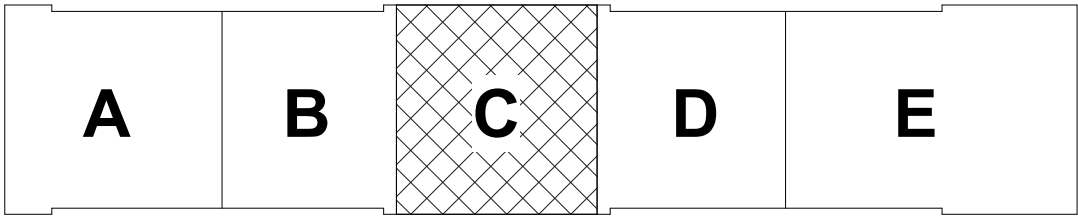
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- CONTRACTOR TO COORDINATE ALL ROOF EDGES AND OPENINGS. OPENINGS LESS THAN 6" IN ALL DIRECTIONS ARE NOT SHOWN IN STRUCTURAL DRAWINGS. RE: L1-L17/S-511 FOR PLACEMENT CRITERIA.
- RE: SHEETS S-001 - S-005 FOR GENERAL NOTES AND DESIGN CRITERIA.
- RE: SHEETS S-511 - S-513 FOR TYPICAL ROOF FRAMING DETAILS.
- RE: SHEETS S-601 - S-602 FOR SCHEDULES.

KEYNOTES

- HANGING FAN ON BOTTOM CHORD OF TRUSS ON GRID D. APPROXIMATE WEIGHT OF 300LBS (DL ASD). RE: ARCH/MEP FOR EXACT LOCATION. RE: MFR FOR ATTACHMENT
- PROVIDE L4x4x1/4 BRACING AT THIRD POINTS OF BEAM, RE: K15/S-521
- PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: E4/S-521
- PROVIDE L8x8x1/2 BRACING AT BEAM HALF POINT, RE: E4/S-521 (SIM)
- PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: A12/S-213

KEY PLAN



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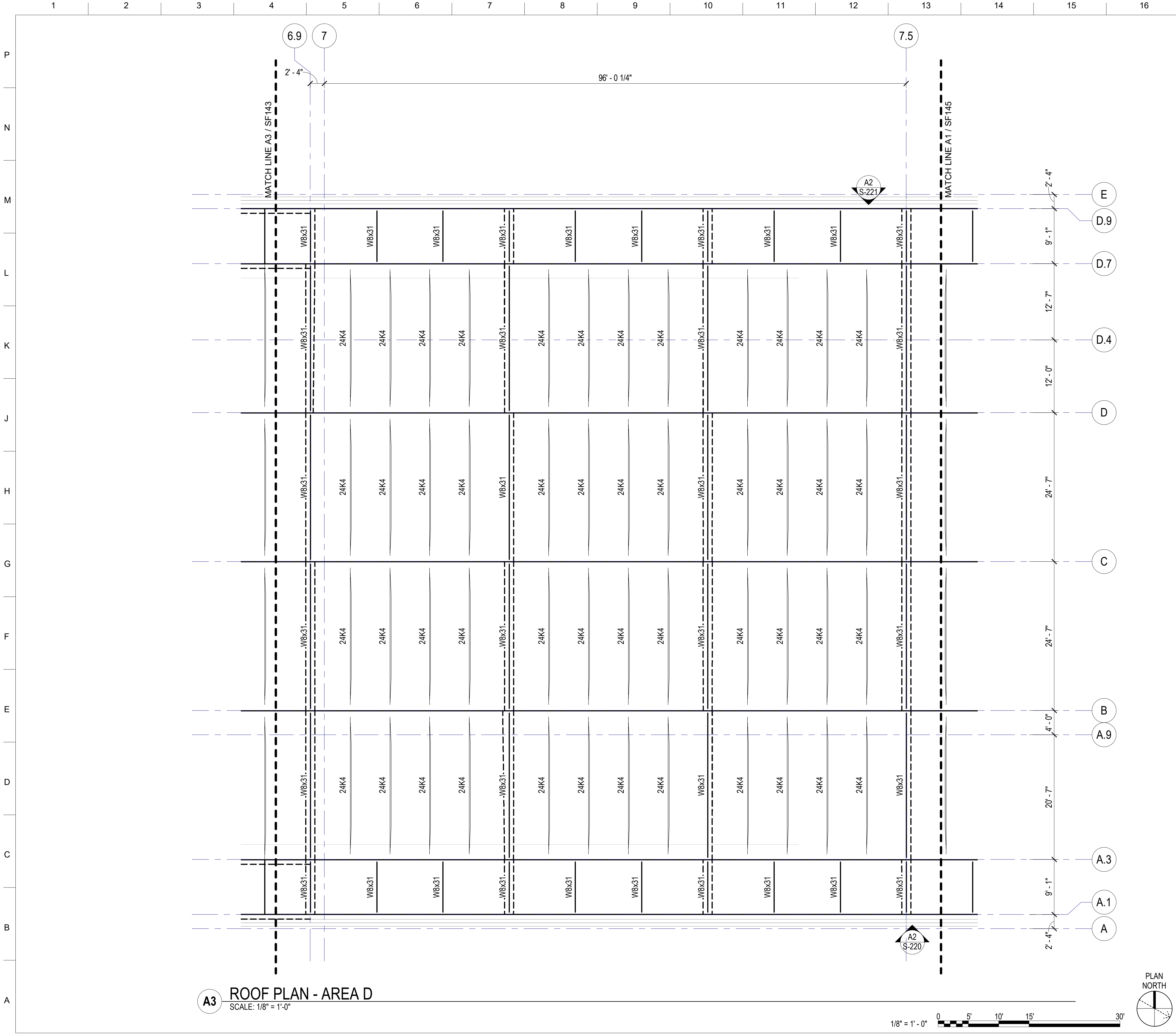
ACCOUNTS		DESCRIPTION	MARK
DATE			

ISSUE DATE: JULY 17, 2025	SOLICITATION NO.:	DESIGNED BY: A. VALENCIA	US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT
		DRAWN BY: R. CARLSON	
		CHECKED BY: D. CLAYSON	
		SUBMITTED BY: P. PASZCZUK	
		SIZE: ANSI D	KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494137	ROOF PLAN - AREA C
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SHEET ID
SF143

FOR REVIEW



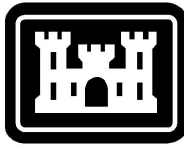
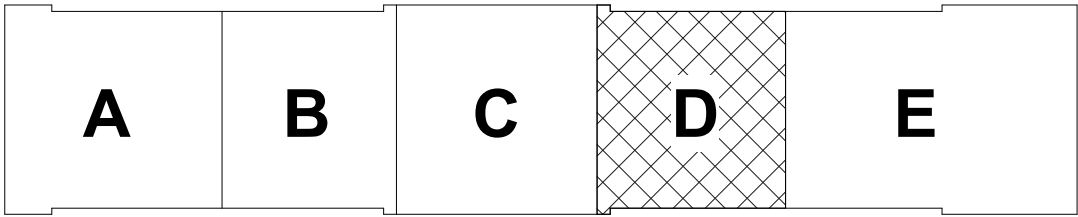
ROOF FRAMING NOTES

- CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION SEQUENCE FOR ALL STRUCTURAL ELEMENTS IN THE PROJECT. CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY SHORING OR BRACING AS NEEDED UNTIL STRUCTURE IS COMPLETE.
- ALL BEAM-TO-COLUMN CONNECTIONS SHALL BE SINGLE SHEAR TAB CONNECTIONS UNLESS NOTED OTHERWISE. SEE TYPICAL STEEL-TO-STEEL CONNECTION SCHEDULE.
- SHOP DRAWINGS MUST BE PRODUCED FOR ALL JOISTS AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. CALCULATIONS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS AND SHALL BEAR THE STAMP OF A LICENSED ENGINEER.
- OPEN WEB STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL, AXIAL (WL/EQ), LATERAL, POINT, AND UNIFORM LOADS SHOWN ON PLANS AND IN DETAILS. LOADS SHOWN ARE ASD MAGNITUDE LOADS UNLESS NOTED OTHERWISE.
- THE STEEL JOIST SUPPLIER IS RESPONSIBLE IN DESIGNING ALL JOISTS, INCLUDING SLOPE, CAMBER, BEARING ENDS, ETC. ALL DESIGNS SHALL BE IN ACCORDANCE WITH SJI SPECIFICATIONS WITH A MAXIMUM DEFLECTION OF JOISTS OF TL/180 AND LL/240.
- HORIZONTAL AND CROSS BRIDGING SHALL BE SIZED, LOCATED, AND SUPPLIED BY THE JOIST MANUFACTURER.
- ALL STABILIZER PLATES SHALL BE 6"x6"xCHORD GAP-1/4" WITH A 3/4" DIAMETER HOLE, AND MUST EXTEND 3" MINIMUM BELOW THE BOTTOM CHORD.
- ALL CONCENTRATED LOADS GREATER THAN 100 POUNDS SUPPORTED BY OPEN WEB JOISTS SHALL BE LOCATED WITHIN 6" OF PANEL POINT. OTHERWISE, JOIST SHALL BE REINFORCED WITH AN ADDITIONAL WEB MEMBER. (RE: H1/S-511)
- BOTTOM CHORD OF ANY JOIST SHALL NOT BE USED TO BRACE ANY MISC EQUIPMENT.
- JOIST BRIDGING SHALL NEVER BE USED TO SUPPORT HANGING LOADS.
- JOIST LOADS SHOWN ON PLAN WITH THE JOIST DESIGNATION "K (XX/XX)" ACCOUNTS FOR TOTAL LOAD/LIVE LOAD (ASD).
- OPEN WEB STEEL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT DUE TO WIND LOADING, RE: SHEET S-005.
- STEEL JOISTS SHALL BE DESIGNED FOR AN ADDITIONAL VERT LIVE LOAD (ASD) OF +/-500# AT EACH PANEL POINT
- STANDARD JOIST SEAT DEPTH SHALL BE 2 1/2". CONTRACTOR TO COORDINATE TOP OF GIRDERS USING 2 1/2" JOIST SEAT DEPTH UNO.
- CONTRACTOR TO COORDINATE ALL ROOF EDGES AND OPENINGS. OPENINGS LESS THAN 6" IN ALL DIRECTIONS ARE NOT SHOWN IN STRUCTURAL DRAWINGS. RE: L1-L17/S-511 FOR PLACEMENT CRITERIA.
- RE: SHEETS S-001 - S-005 FOR GENERAL NOTES AND DESIGN CRITERIA.
- RE: SHEETS S-511 - S-513 FOR TYPICAL ROOF FRAMING DETAILS.
- RE: SHEETS S-601 - S-602 FOR SCHEDULES.

KEYNOTES

- HANGING FAN ON BOTTOM CHORD OF TRUSS ON GRID D. APPROXIMATE WEIGHT OF 300LBS (DL ASD). RE: ARCH/MEP FOR EXACT LOCATION. RE: MFR FOR ATTACHMENT
- PROVIDE L4x4x1/4 BRACING AT THIRD POINTS OF BEAM, RE: K15/S-521
- PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: E4/S-521
- PROVIDE L8x8x1/2 BRACING AT BEAM HALF POINT, RE: E4/S-521 (SIM)
- PROVIDE L8x8x1/2 BRACING AT THIRD POINTS OF BEAM, RE: A12/S-213

KEY PLAN



US Army Corps
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DATE	DESCRIPTION	MARK

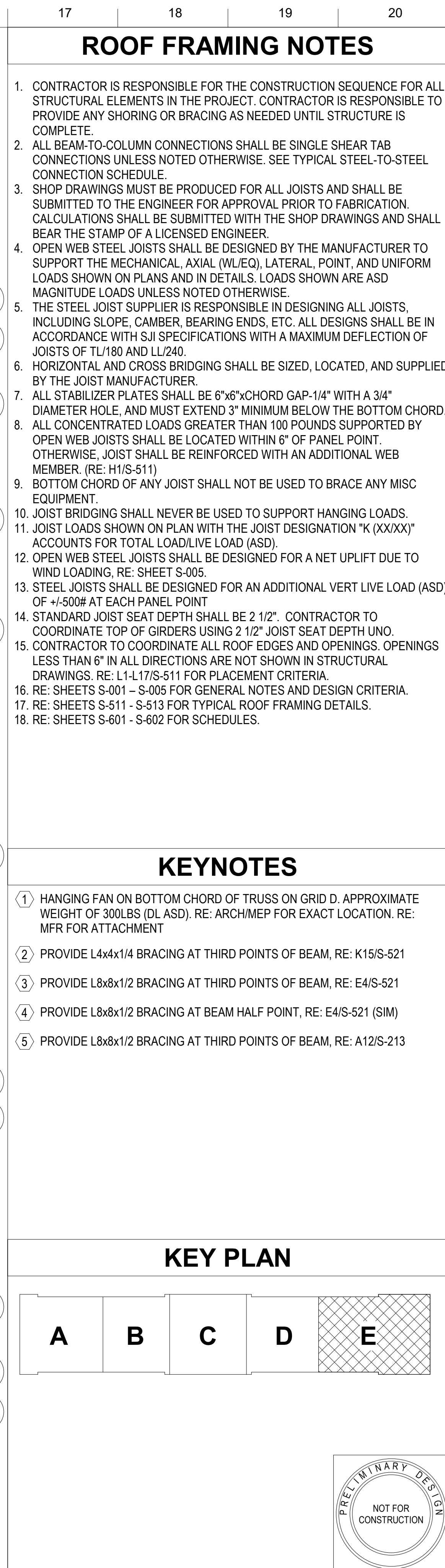
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DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	

US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110
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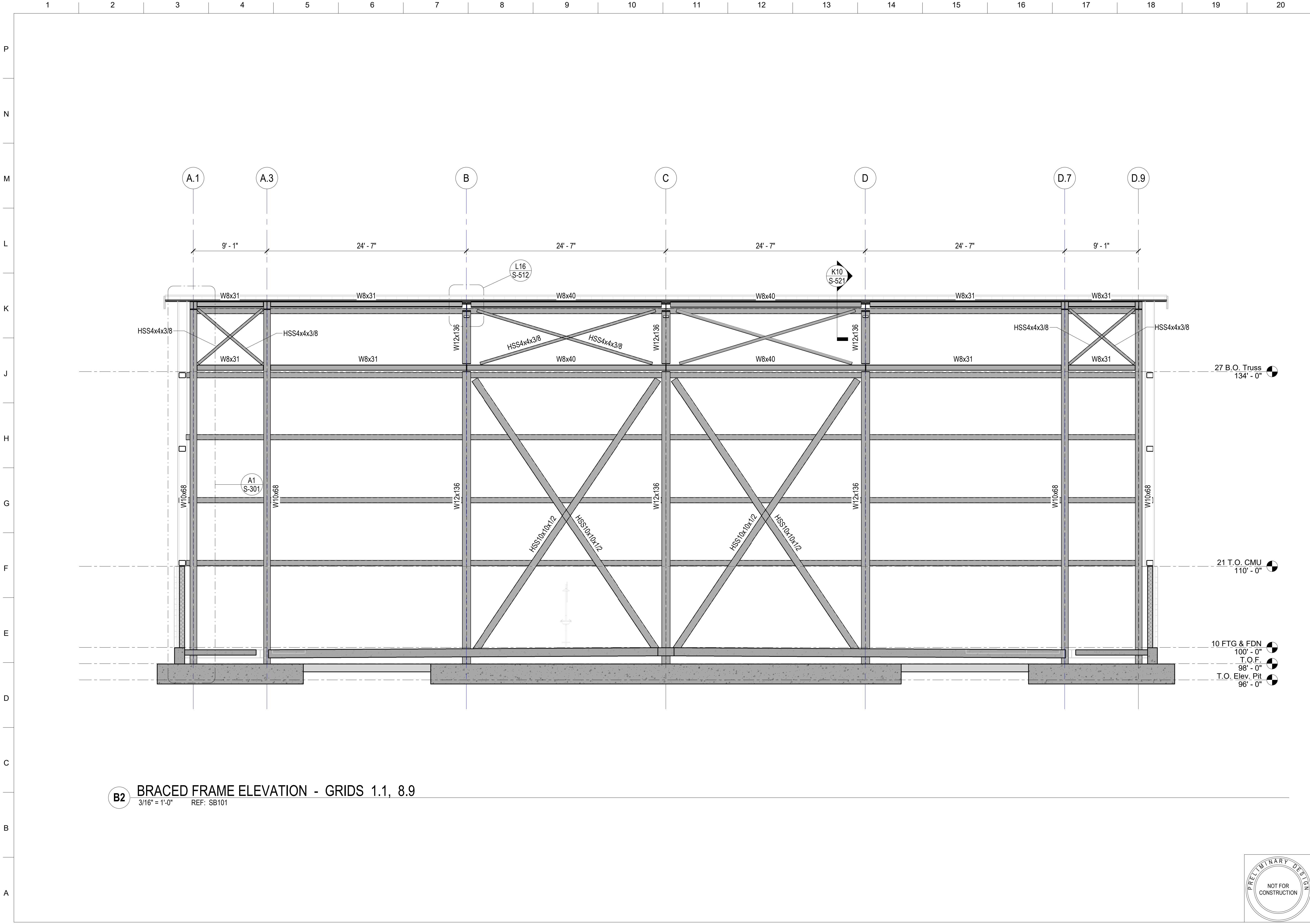
CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.37	ROOF PLAN - AREA D
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SHEET ID
SF144

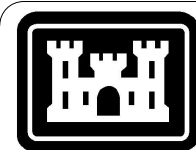
FOR REVIEW



FOR REVIEW



B2 BRACED FRAME ELEVATION - GRIDS 1.1, 8.9
3/16" = 1'-0" REF: SB101



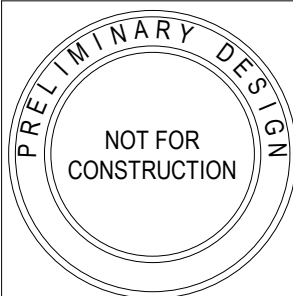
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MARK	DESCRIPTION	DATE

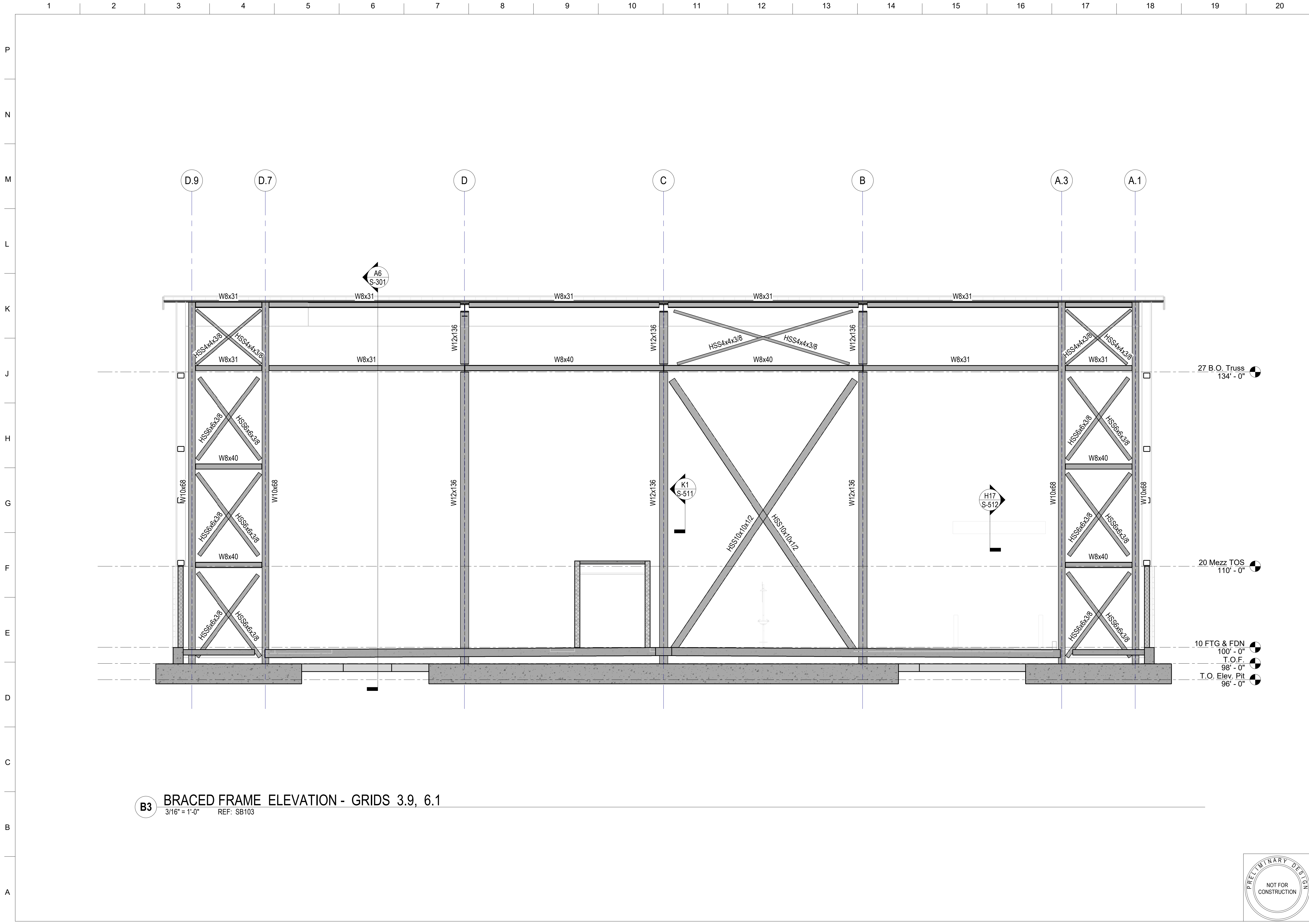
DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	
KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110	

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.37	BRACED FRAME ELEVATIONS
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SHEET ID
S-201



FOR REVIEW

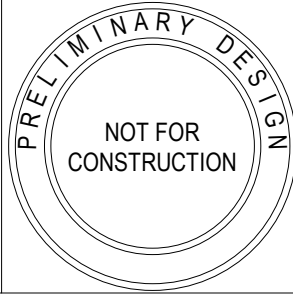


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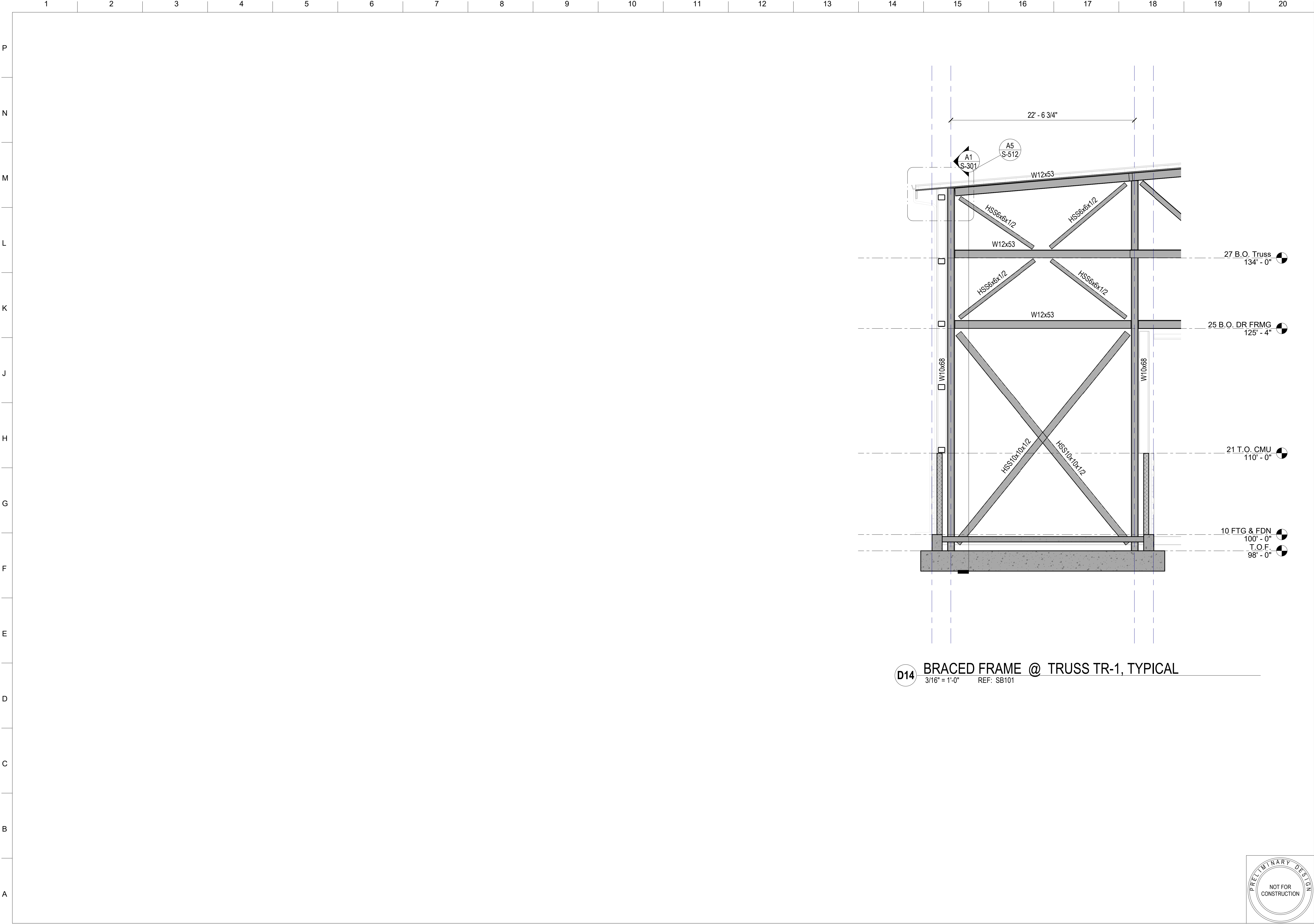
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DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	
KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110	

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.37	BRACED FRAME ELEVATIONS
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SHEET ID S-202



FOR REVIEW



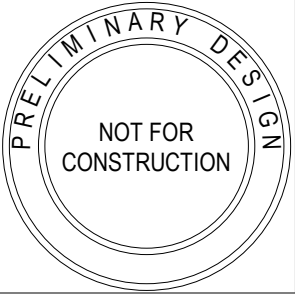
DATE	DESCRIPTION	MARK

DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	

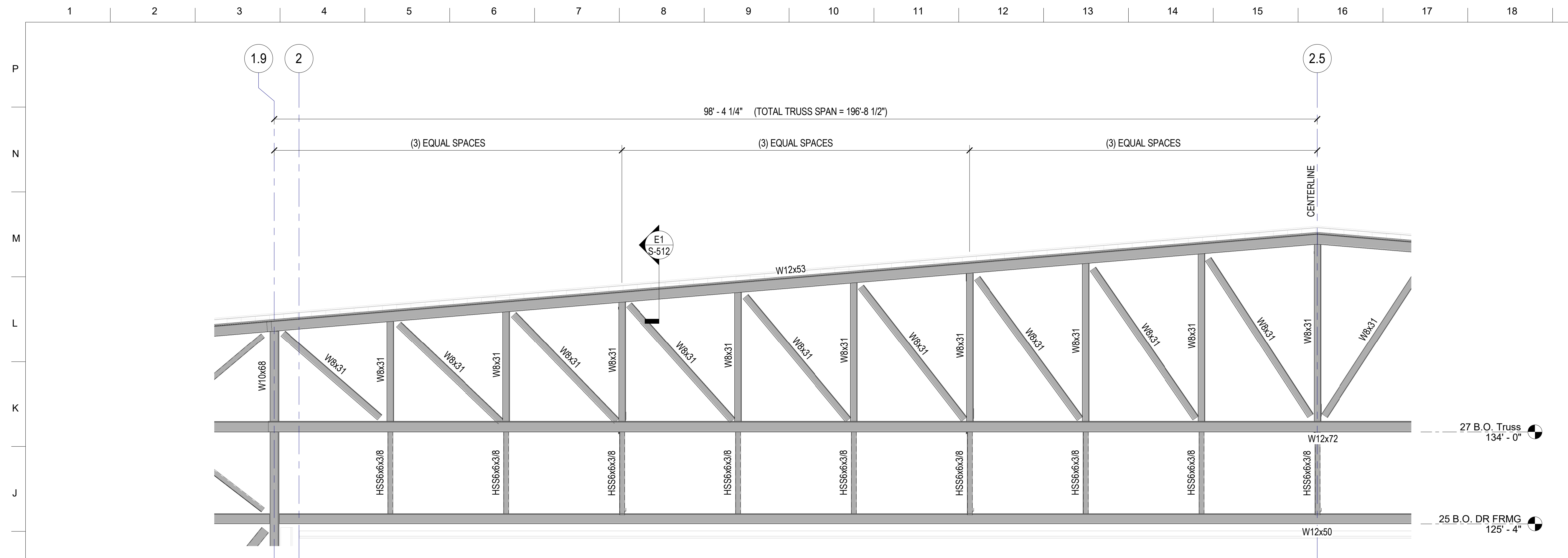
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110
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CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.137 BRACED FRAME ELEVATIONS
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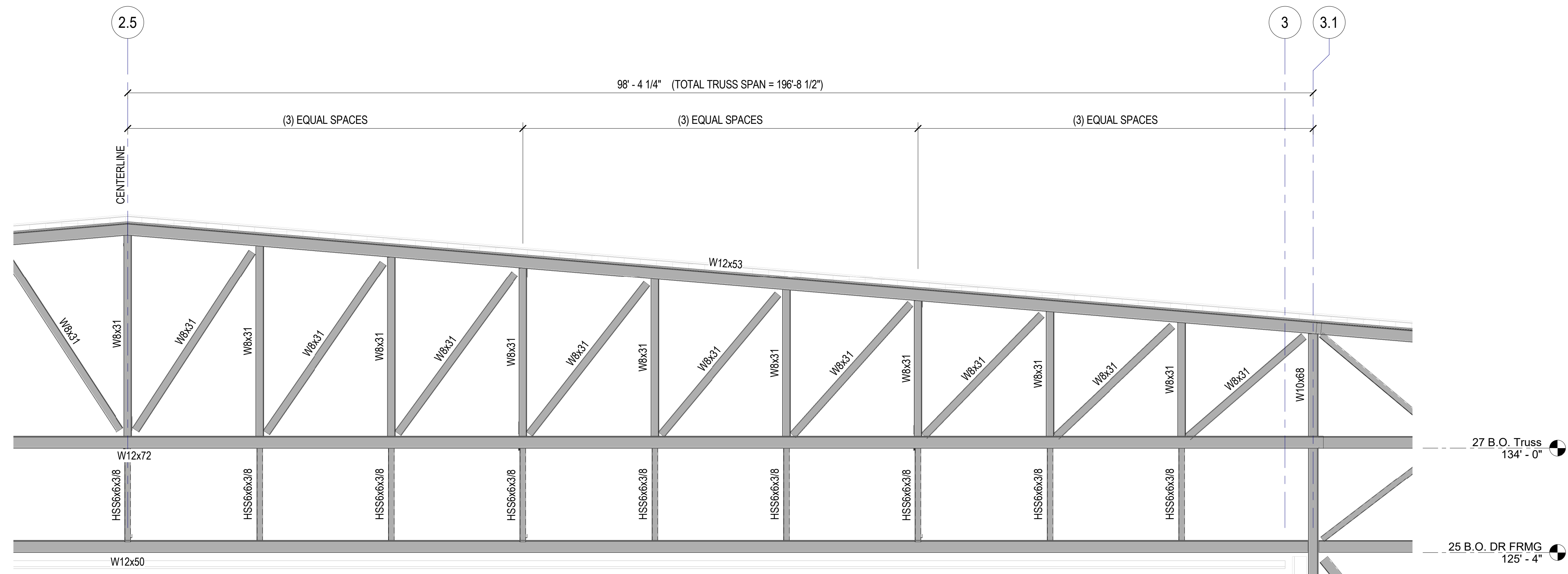
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FOR REVIEW



J2 GIRDER TRUSS TR-1 - GRIDS A.1 A.3 D.7 D.9 (WEST)
3/16" = 1'-0" REF: SF131



A2 GIRDER TRUSS TR-1 - GRIDS A.1 A.3 D.7 D.9 (EAST)
3/16" = 1'-0" REF: SF131



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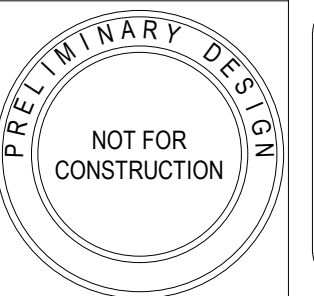
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494137

SHEET ID

S-211

FOR REVIEW



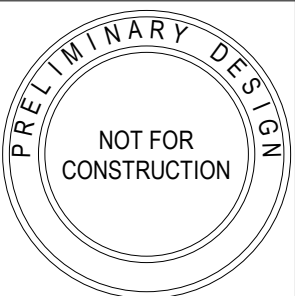
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US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	DRAWN BY: A. VALENZUELA	JULY 17, 2025
	CHECKED BY: D. CLAYSON	SOLICITATION NO.:
	DESIGNED BY: P. HANSEN	CONTRACT NO.:
	SIZE: 11" X 17"	ANSI D

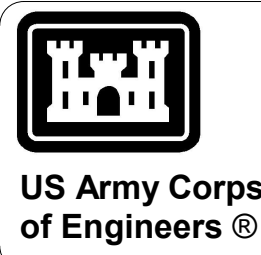
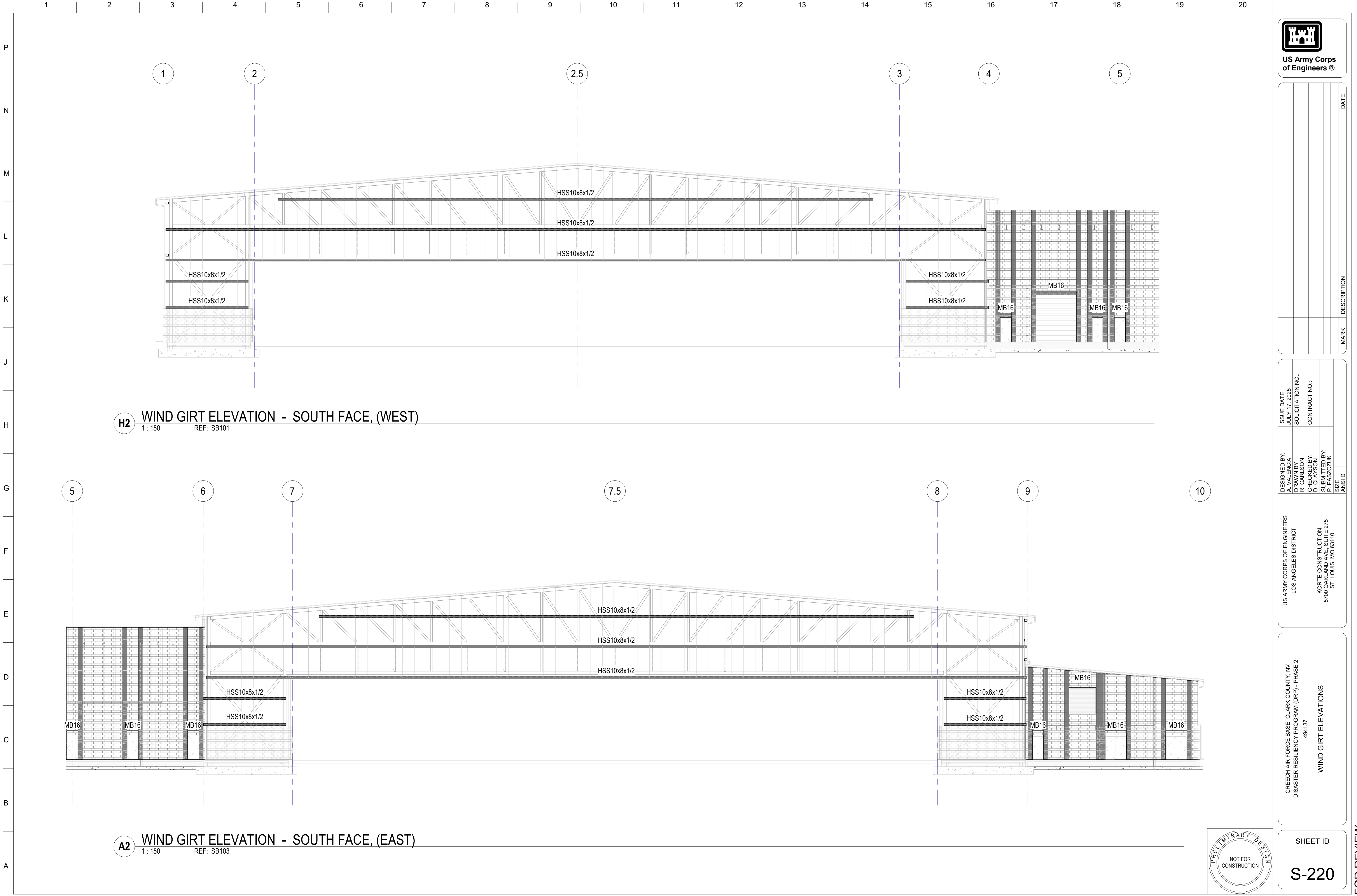
ORECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494137

SHEET ID

S-213



FOR REVIEW



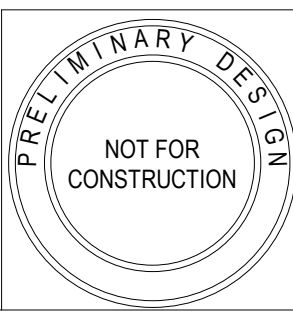
MARK	DESCRIPTION	DATE

DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	

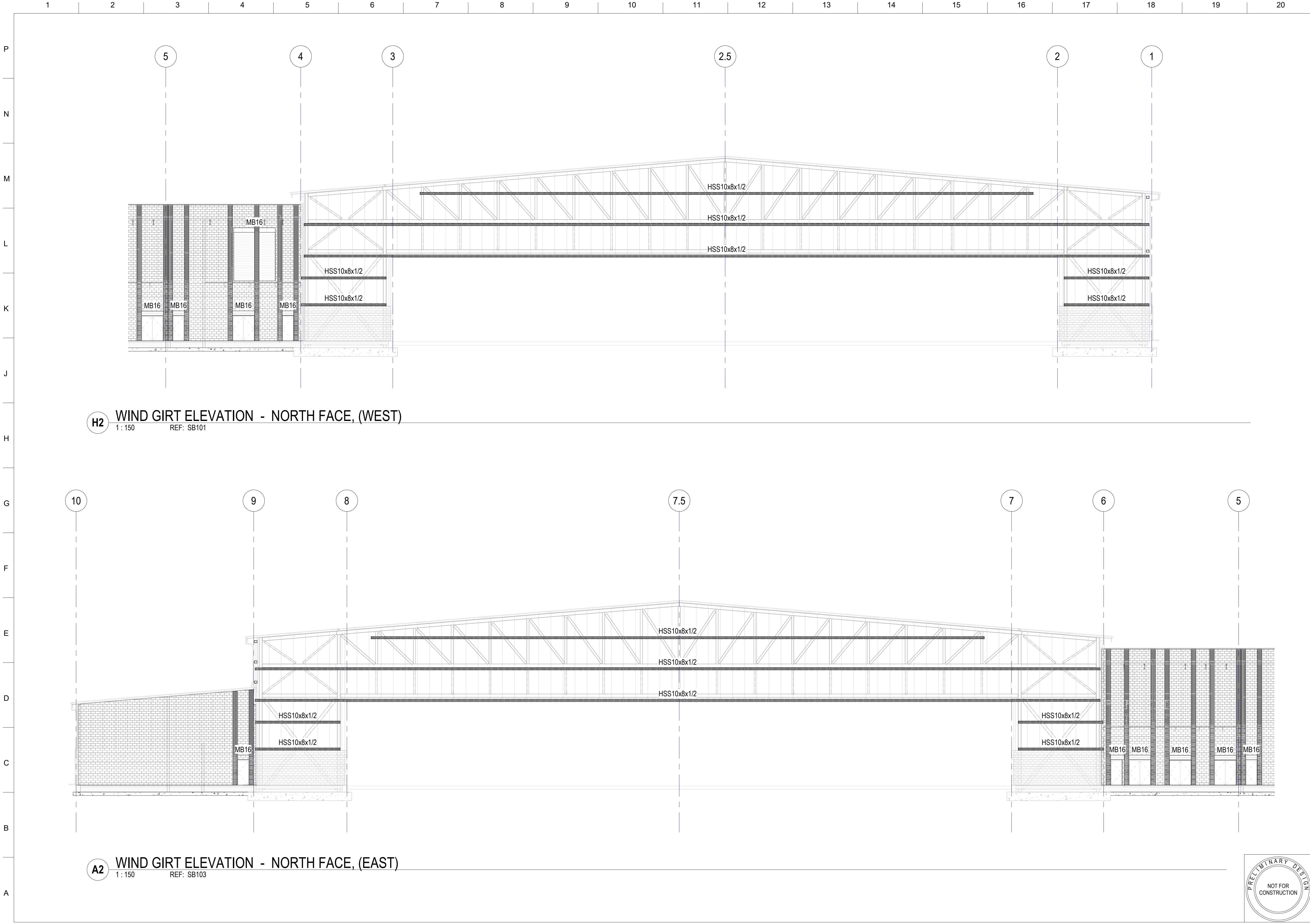
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110
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CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.37	WIND GIRT ELEVATIONS
--	----------------------

SHEET ID S-220



FOR REVIEW

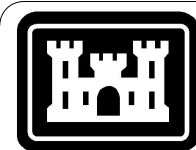


H2 WIND GIRT ELEVATION - NORTH FACE, (WEST)

1 : 150 REF: SB101

A2 WIND GIRT ELEVATION - NORTH FACE, (EAST)

1 : 150 REF: SB103



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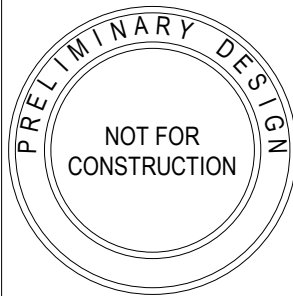
MARK	DESCRIPTION	DATE

DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
DRAWN BY: R. CARLSON	SOLICITATION NO.:
CHECKED BY: D. CLAYSON	CONTRACT NO.:
SUBMITTED BY: P. PASZCZUK	
SIZE: ANSI D	

US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110
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CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494.37	WIND GIRT ELEVATIONS
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SHEET ID S-221



FOR REVIEW

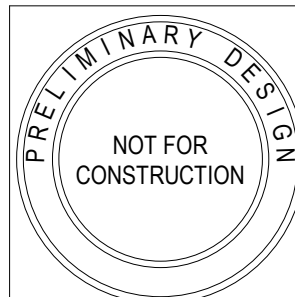
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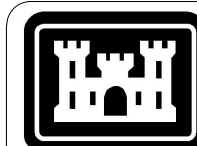
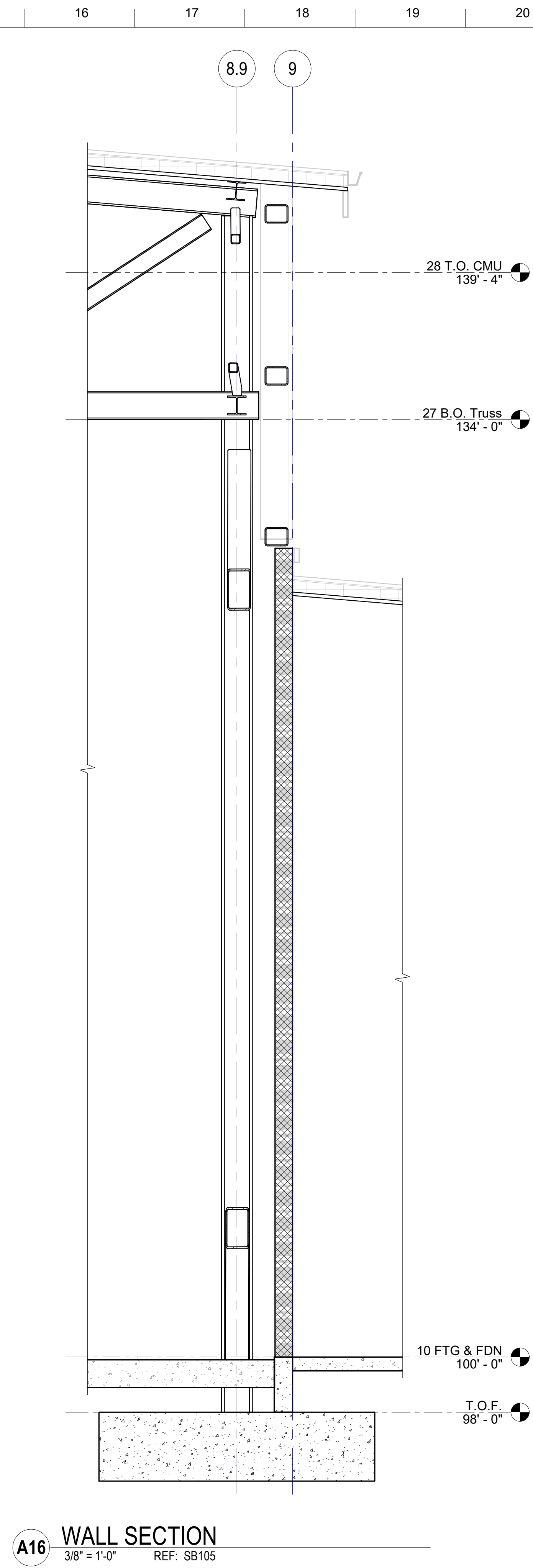
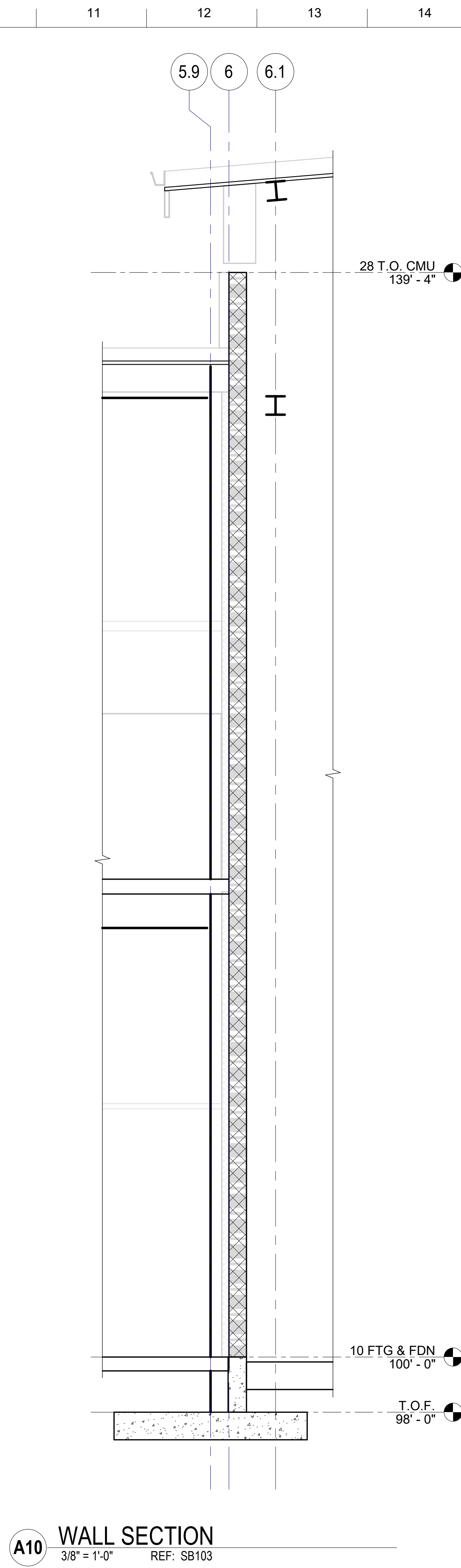
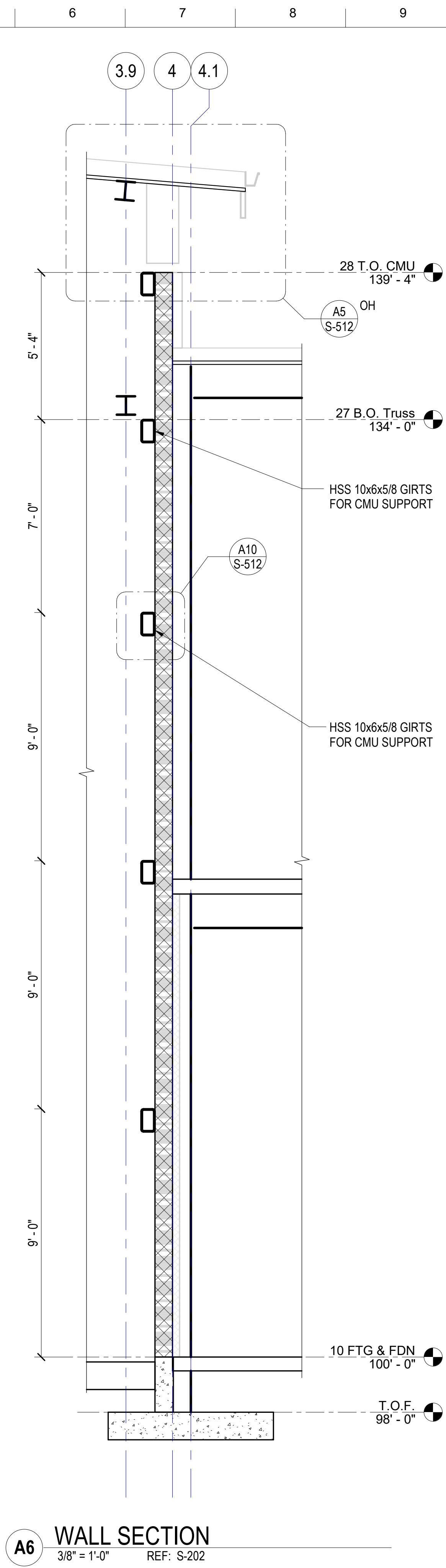
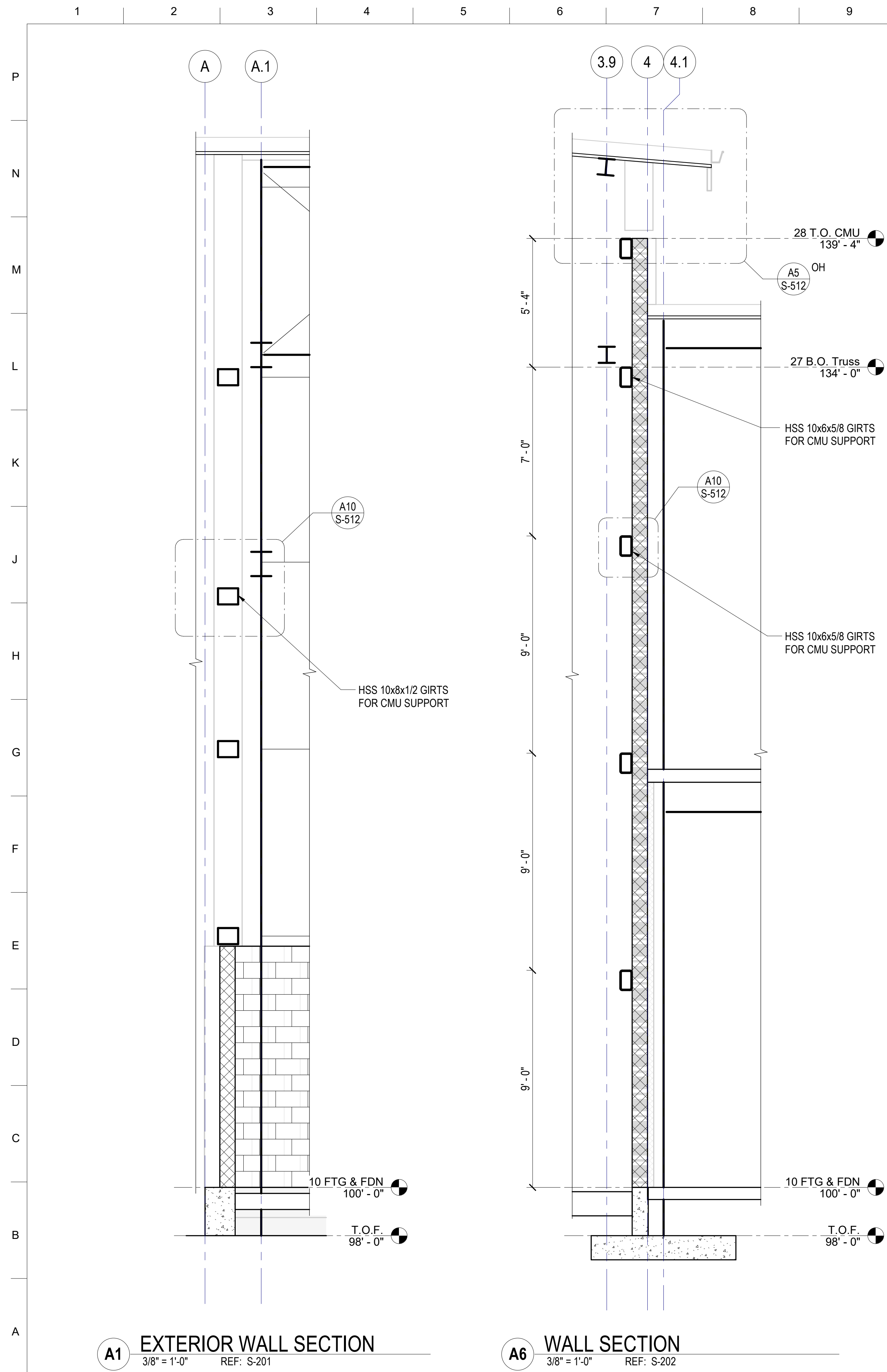
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
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KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110	CHECKED BY: D. CLAYSON	CONTRACT NO.:
	SUBMITTED BY: P. PASZCZYK	
	SIZE: ANSI D	

CREECH AIR FORCE BASE, CLARK COUNTY, NV,
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494137

SHEET ID

S-222





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US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
	DRAWN BY: R. CARLSON	SOLICITATION NO.:
KORTE CONSTRUCTION 5700 OKLAND AVE SUITE 275 ST. LOUIS, MO 63110	CHECKED BY: D. CLAYSON	CONTRACT NO.:
	SUBMITTED BY: P. PASZCZUK	
	SIZE: ANSI D	

CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2

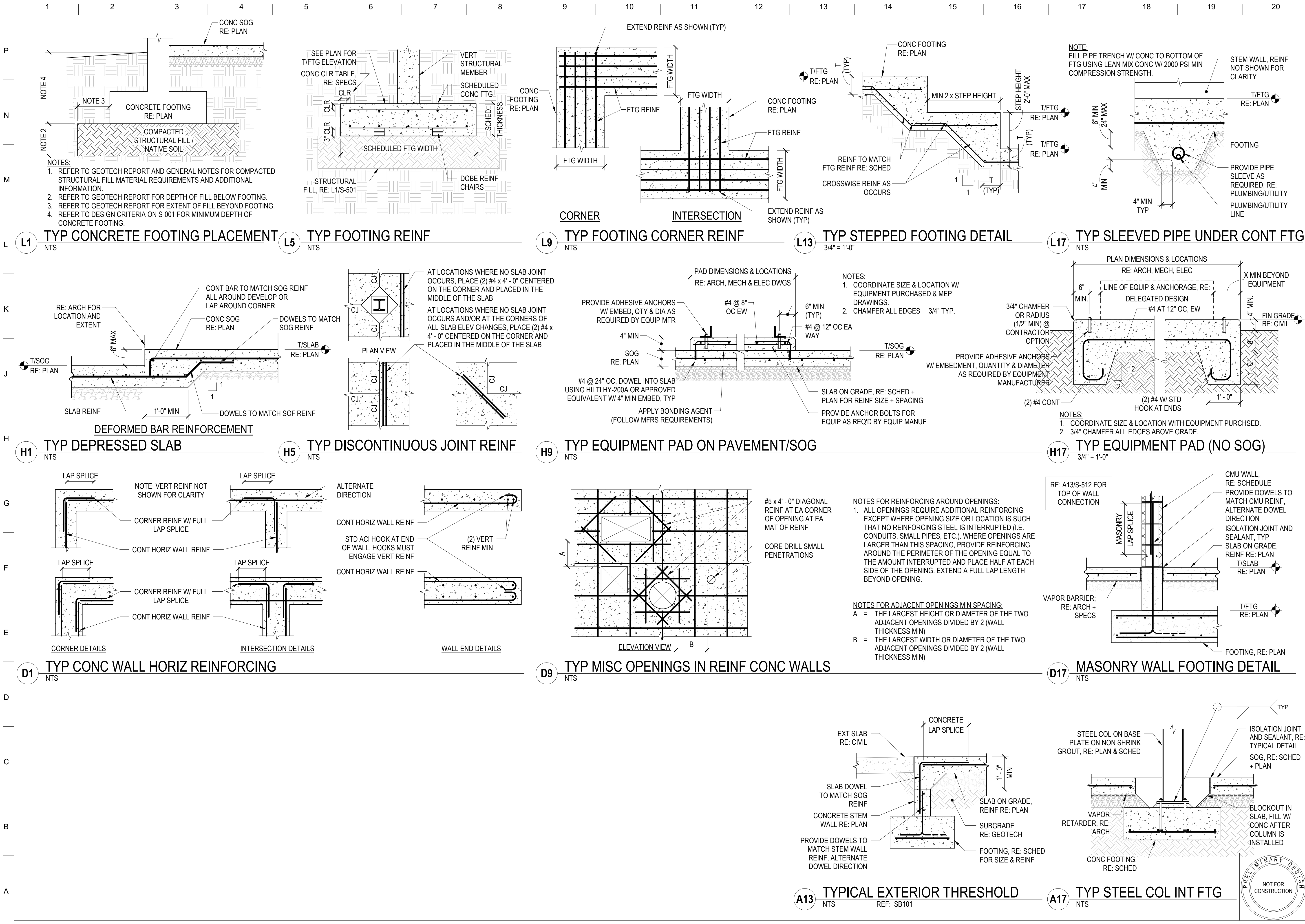
494137

WALL SECTIONS

SHEET ID

S-301

FOR REVIEW



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ISSUE DATE:		SOLICITATION NO.:		CONTRACT NO.:	
JULY 17, 2025					
DESIGNED BY:		DRAWN BY:		CHECKED BY:	
A. VALENCIA		R. CARLSON		D. CLAYSON	
SUBMITTED BY:		P. PASZCZUK		SIZE:	
				ANSI D	

US ARMY CORPS OF ENGINEERS		KORTE CONSTRUCTION	
LOS ANGELES DISTRICT		5700 OAKLAND AVE. SUITE 275	
		ST. LOUIS, MO 63110	

CREECH AIR FORCE BASE, CLARK COUNTY, NV

DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2

494-37

FOUNDATION DETAILS

SHEET ID

AOF

S-501

FOR REVIEW



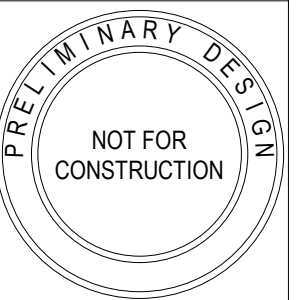
LOS ANGELES DISTRICT

KORTE CONSTRUCTION
5700 OAKLAND AVE, SUITE 275
ST. LOUIS, MO 63110

FOUNDATION DETAILS

HEET ID
AOF
-502

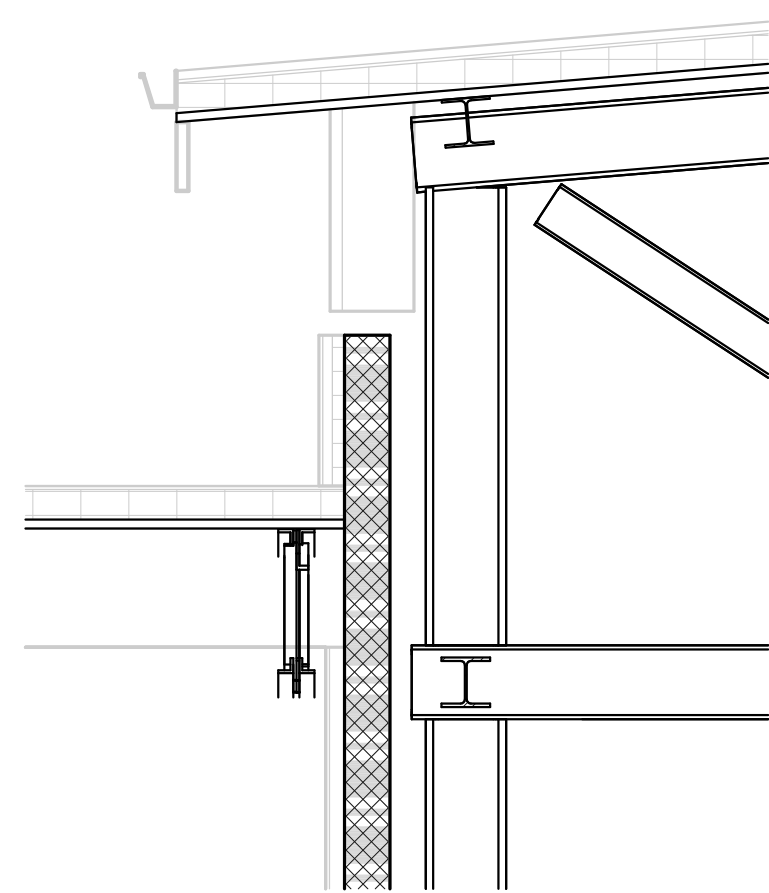
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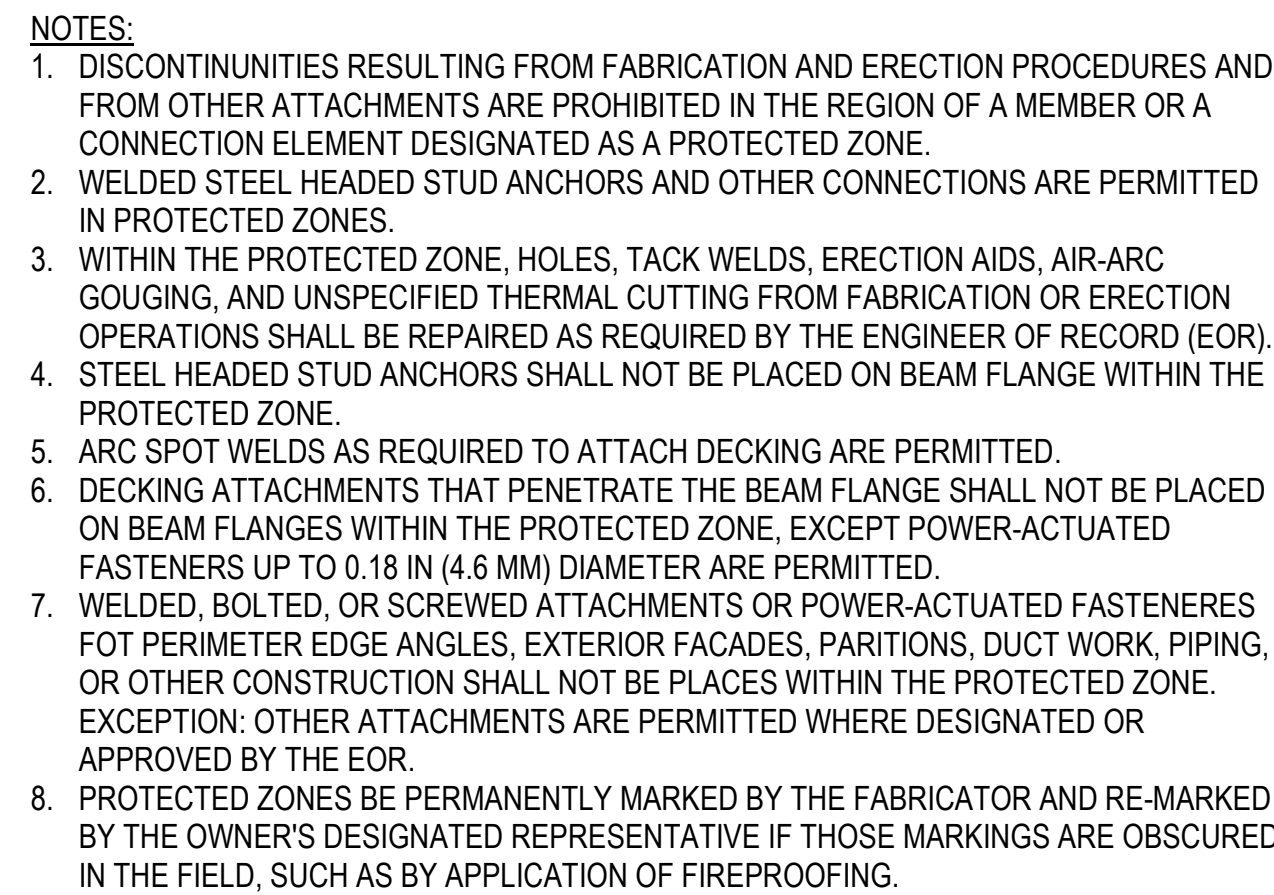


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S-512

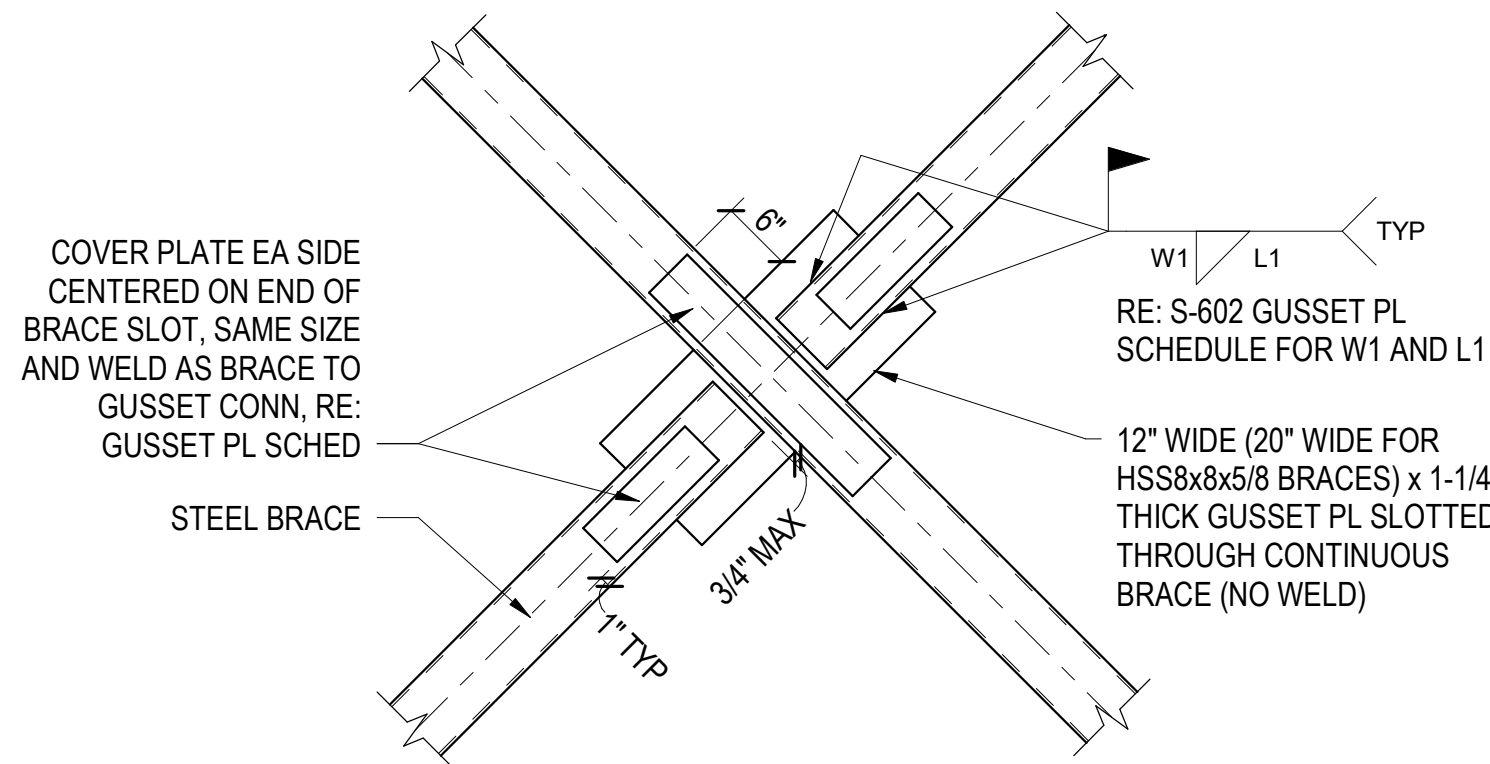




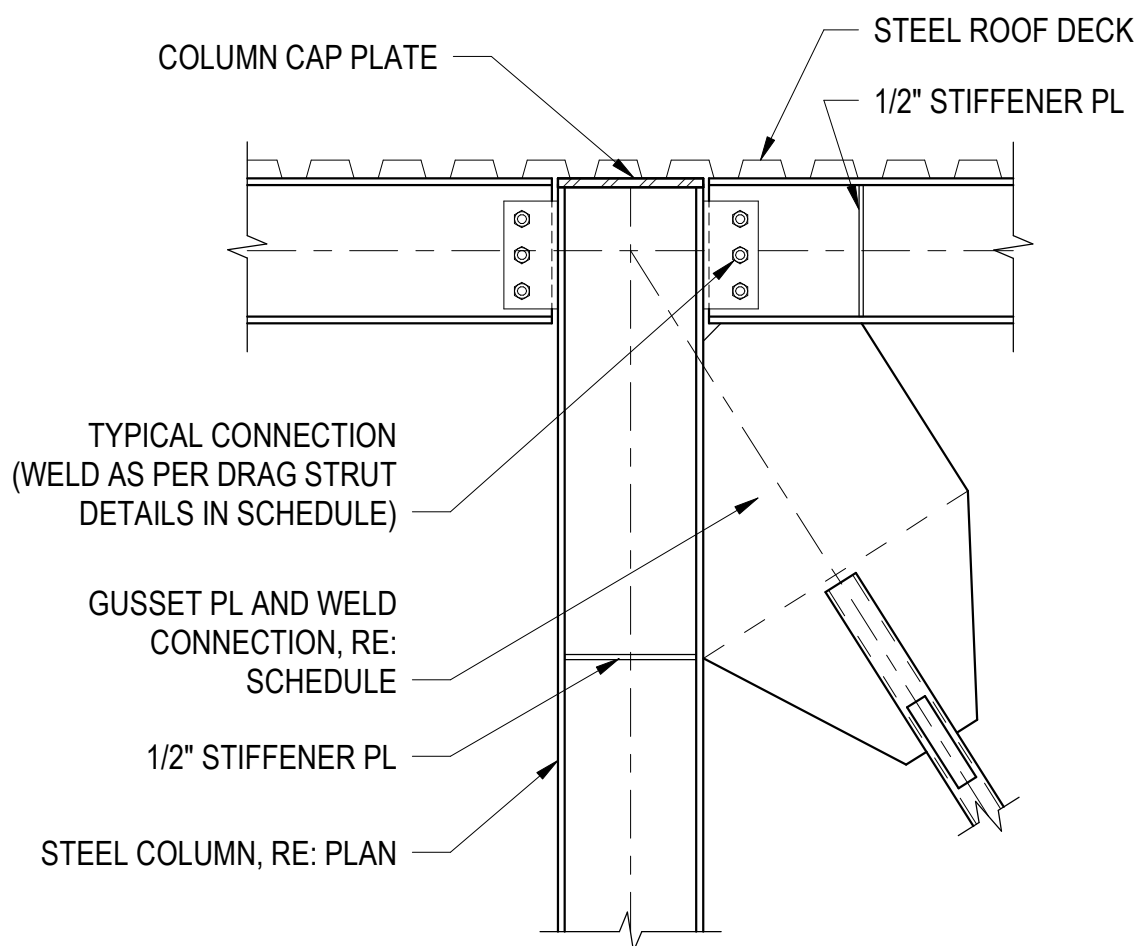
K15 Section 34
3/8" = 1'-0" REF: SF131



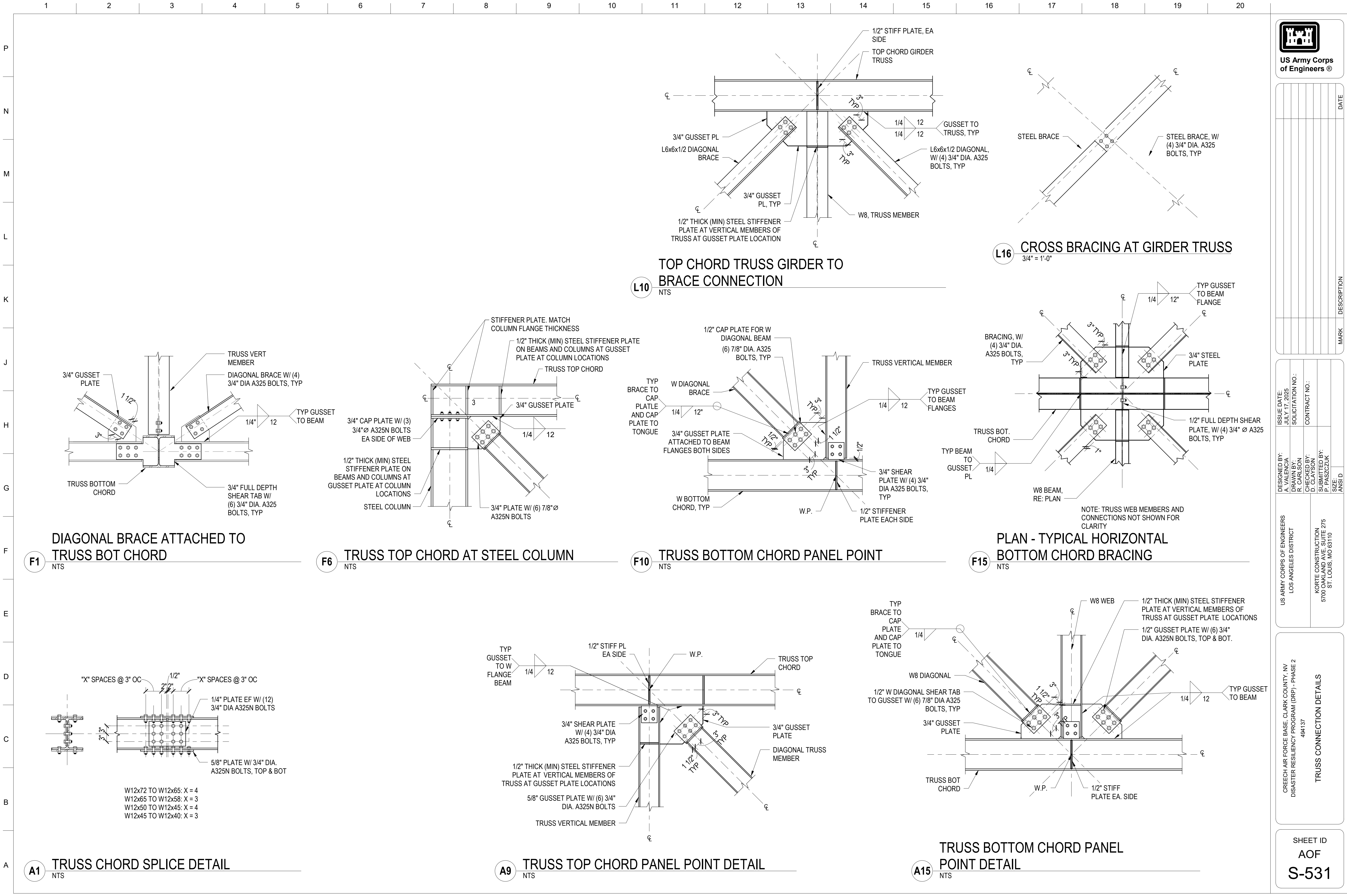
E10 PROTECTED ZONE OF X-BRACED FRAME



A5 **TYP X-BRACE INTERSECTION DETAIL**
NTS



A15 **TYP BRACED FRAME ROOF CONNECTION**
NTS



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STEEL BRACED FRAME COLUMN & BASE PLATE SCHEDULE

COLUMN MARK	COLUMN SIZE	BASE PLATE				ANCHOR ROD		SHEAR LUG		NOTES
		TYPE	THICKNESS	"M" DIM	"N" DIM	"A" DIM	"P" DIM	DIA.	EMBED	

NOTES:

- ALL BASE PLATES AND SHEAR LUGS MUST BE ASTM A572 GR50 STEEL, TYP UNO
- ALL ANCHOR RODS MUST BE ASTM F-1554 GR55 MIN UNO. THEY MUST BE HEADED ANCHOR RODS W/ 3"x3"x3/8" PLATE WASHERS WITH DOUBLE NUTS OR EMBED PLATE EMBEDDED IN CONCRETE AT THE EMBEDMENT DEPTH SPECIFIED, TYP UNO.
 - ALL ANCHOR RODS MUST HAVE HARDENED WASHERS AND NUTS, WITH FULL HEIGHT OF EXTENSIONS THREADED
 - WASHERS MUST CONFORM TO AISC STEEL CONSTRUCTION MANUAL TABLE 14-2
 - BASE PLATE HOLES MAY INCREASE PER AISC STEEL CONSTRUCTION MANUAL TABLE 14-2
- ALL BASE PLATES MUST BEAR ON MIN 1 1/2" THICK (2" THICK AT BRACED FRAMES) 5000 PSI NON-SHRINK GROUT AND MUST HAVE LEVELING NUTS, TYP UNO
- ALL BASE PLATES MUST BE WELDED TO THE COLUMN WITH A 1/4" FILLET WELD ALL AROUND, TYP UNO
- ALL ANCHOR RODS MUST BE SET IN PLACE WITH A TEMPLATE. THEY MUST BE PLACED PLUMB AND AT THE CORRECT DEPTH AND EXTENSION
- THE WIDTH OF ALL SHEAR LUGS IS THE SAME AS THE 'N' DIMENSION SHOWN IN BASE PLATE TYPES
- NOTCH SHEAR LUGS AS REQ'D TO ACCOMMODATE REINF STEEL
- SEE THE STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION

NOTES:

- SEE TYPICAL DETAILS FOR REINFORCING AT CORNERS, INTERSECTIONS, AND OPENINGS.
- GROUT ALL CELLS SOLID THAT CONTAIN REINFORCING, EMBEDS, AND/OR BOLTS, TYP.
- DO NOT SOLID GROUT WALLS UNO.
- ALL MASONRY BELOW GRADE MUST BE GROUTED SOLID.
- LAY ALL BLOCK IN RUNNING BOND, TYP UNO.
- HORIZONTAL WALL REINF MUST CONTINUE THROUGH LINTELS. WHERE BOTH HORIZ WALL AND LINTEL REINF OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCEMENT ONLY.
- ALL HORIZ REINF MUST TERMINATE AT ENDS OF WALL AND JAMBS WITH STANDARD 180 DEG HOOKS. PLACE ADDITIONAL VERT BAR IN CENTER OF WALL IF NECESSARY.
- PROVIDE SCHEDULED BOUNDARY COLUMNS AT END OF WALLS. SEE TYP MASONRY ELEVATION.
- AT TOP AND BOTTOM OF WALL PROVIDE (2) #5 CONT IN ADDITION TO SCHEDULED REINFORCING.
- AT ALL DECK AND JOIST EMBED LOCATIONS, PROVIDE (2) #5 CONT IN ADDITION TO SCHEDULED REINFORCING.
- PROVIDE DOWELS WITH STANDARD HOOKS AND/OR PROPER LAP LENGTH TO THE STRUCTURE ABOVE AND BELOW WITH SIZE AND SPACING TO MATCH THE VERT REINF IN THE WALL, TYP UNO.
- THE LAP SPLICE LENGTH OF VERT REINF MUST BE AS SHOWN IN THE MASONRY REINF LAP SPLICE TABLE IN THE GENERAL NOTES. ADJUST HEIGHT OF EACH LIFT AS REQUIRED.
- WHEN A SINGLE CURTAIN OF REINF IS SPECIFIED, PLACE THE VERT REINF IN THE CENTER OF THE WALL, TYP UNO.
- WHEN A DOUBLE CURTAIN OF REINF IS SPECIFIED, PLACE EACH CURTAIN AT THE FACE OF THE WALL WITH THE VERT REINF CLOSEST TO THE SHELL WITH A CLEAR DISTANCE BETWEEN 1/2" AND 1" TO THE INSIDE FACE OF THE SHELL.
- ALL WALLS MUST INCLUDE LADDER TYPE JOINT REINF SPACED AT 16" OC VERTICALLY WITH AT LEAST TWO WIRES OF W1.7 (GALVANIZED).
- SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

CONCRETE WALL SCHEDULE

MARK	WIDTH	TYPE	WALL REINFORCING		NOTES
			HORIZONTAL	VERTICAL	
CW-8	8"	TYPE A	#5 @ 12" OC	#5 @ 12" OC	
CW-15	1' - 3"	TYPE A	#5 @ 12" OC	#5 @ 12" OC	

NOTES:

- SEE TYPICAL DETAILS FOR REINFORCING AT CORNERS, INTERSECTIONS, AND OPENINGS.
- PROVIDE DOWELS WITH STANDARD HOOKS AND/OR PROPER LAP LENGTH TO THE STRUCTURE ABOVE AND BELOW WITH SIZE AND SPACING TO MATCH THE VERT REINF IN THE WALL, TYP UNO.
- THE LAP SPLICE LENGTH OF VERT REINF MUST BE AS SHOWN IN THE CONCRETE REINF DEVELOPMENT AND LAP SPLICE TABLE IN THE GENERAL NOTES. ADJUST HEIGHT OF EACH LIFT AS REQUIRED.
- WHEN A SINGLE CURTAIN OF REINF IS SPECIFIED, PLACE THE VERT REINF IN THE CENTER OF THE WALL, TYP UNO.
- AT TOP AND BTM OF WALL, INCLUDING ALL DECK BEARING ELEVATIONS, PROVIDE (2) #5 CONT IN ADDITION TO SCHEDULED REINFORCING.
- ALL HORIZONTAL REINF MUST TERMINATE AT ENDS OF WALLS AND ALL JAMBS WITH A STANDARD 180 DEGREE HOOK. END OF WALL IS DEFINED AS ANY WALL SEGMENT THAT EITHER CHANGES DIRECTION AND/OR CHANGES TO A DIFFERENT WALL TYPE.
- SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

REINFORCED CONCRETE WALL TYPES

FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK	TRANSVERSE REINFORCING		LONGITUDINAL REINFORCING		NOTES
				NO.	SIZE	NO.	SIZE	
FS3.0	3' - 0"	3' - 0"	1' - 0"	(5)	#6	(5)	#6	
FS6.0	6' - 0"	6' - 0"	1' - 0"	(5)	#6	(5)	#6	
FS7.0	7' - 0"	7' - 0"	1' - 0"	(5)	#6	(5)	#6	
FS10.0	10' - 0"	10' - 0"	1' - 6"	(5)	#6	(5)	#6	
FS18x30	18' - 0"	30' - 0"	2' - 6"	(4)	#5	--	#5 @ 12" OC	TOP & BOTTOM
FS24.0	24' - 0"	40' - 0"	1' - 6"	(5)	#6	(5)	#5 @ 12" OC	
FS18x30	18' - 0"	30' - 0"	2' - 6"					TOP & BOTTOM

NOTES:

- ALL FOOTINGS MUST BEAR ON PROPERLY PREPARED MATERIAL. SEE FOUNDATION SECTION OF THE STRUCTURAL GENERAL NOTES.
- ALL FOOTINGS MUST BE CENTERED BELOW THE WALL AND/OR COLUMN ABOVE, TYP UNO.
- ALL EARTH FORMED FOOTINGS MUST HAVE REQUIRED CONCRETE COVER FOR REINFORCEMENT PER THE CONCRETE COVER TABLE.
- ALL EXTERIOR FOOTINGS MUST BEAR BELOW THE EFFECTS OF FROST. SEE THE DESIGN CRITERIA SECTION OF THE STRUCTURAL GENERAL NOTES FOR MINIMUM BEARING DEPTH.
- PROVIDE MINIMUM COVER FOR ALL REINFORCING PER THE STRUCTURAL GENERAL NOTES AND/OR THE CONCRETE COVER SCHEDULE.
- PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER, TYP UNO.
- PLACE TRANSVERSE REINFORCING NEAREST EARTH AND LONGITUDINAL REINFORCING ON TOP OF TRANSVERSE REINFORCING.
- PLACE TOP REINFORCING IF NOTED ON SCHEDULE. AS A MINIMUM, ALL FOOTINGS GREATER THAN OR EQUAL TO 18" IN THICKNESS REQUIRE #6 @ 12" OC EA WAY IN THE TOP OF FOOTING UNLESS THE SCHEDULE PROVIDES MORE STRINGENT REQUIREMENTS.
- EXTEND CONTINUOUS FOOTINGS 12" MINIMUM PAST EDGE OF WALL, UNLESS OTHERWISE NOTED ON PLANS.
- REINFORCING IN CONTINUOUS FOOTINGS MUST PASS THROUGH INTERSECTING SPOT FOOTINGS.
- ALL REINFORCING FOR SPOT FOOTINGS AND MAT FOOTINGS AT BRACED FRAMES AND MOMENT FRAMES MUST HAVE A 90 DEGREE HOOK AT EA END.
- PROVIDE DOWELS WITH STANDARD HOOKS FROM FOOTINGS TO ANY REINFORCED ELEMENT ABOVE WITH SIZE AND SPACING TO MATCH VERTICAL REINFORCING IN THE ELEMENT ABOVE.
- ANY INCREASE IN THE SIZE OF FOOTINGS SHOWN MAY REQUIRE ADDITIONAL REINFORCING. COORDINATE WITH THE ENGINEER OF RECORD.
- PENETRATIONS THROUGH FOOTINGS ARE NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
- ALL CONTINUOUS FOOTINGS MUST BE FC2.0 MINIMUM, AND ALL SPOT FOOTINGS MUST BE FS3.0 MINIMUM UNO ON PLANS.
- SEE THE STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.

MASONRY WALL SCHEDULE

MARK	WIDTH	TYPE	WALL REINFORCING		NOTES
			HORIZONTAL	VERTICAL	
MW-8	8"	A	#5 @ 48" OC	#5 @ 32" OC	

NOTES:

- SEE TYPICAL DETAILS FOR REINFORCING AT CORNERS, INTERSECTIONS, AND OPENINGS.
- GROUT ALL CELLS SOLID THAT CONTAIN REINFORCING, EMBEDS, AND/OR BOLTS, TYP.
- DO NOT SOLID GROUT WALLS UNO.
- ALL MASONRY BELOW GRADE MUST BE GROUTED SOLID.
- LAY ALL BLOCK IN RUNNING BOND, TYP UNO.
- HORIZONTAL WALL REINF MUST CONTINUE THROUGH LINTELS. WHERE BOTH HORIZ WALL AND LINTEL REINF OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCEMENT ONLY.
- ALL HORIZ REINF MUST TERMINATE AT ENDS OF WALL AND JAMBS WITH STANDARD 180 DEG HOOKS. PLACE ADDITIONAL VERT BAR IN CENTER OF WALL IF NECESSARY.
- PROVIDE SCHEDULED BOUNDARY COLUMNS AT END OF WALLS. SEE TYP MASONRY ELEVATION.
- AT TOP AND BOTTOM OF WALL PROVIDE (2) #5 CONT IN ADDITION TO SCHEDULED REINFORCING.
- AT ALL DECK AND JOIST EMBED LOCATIONS, PROVIDE (2) #5 CONT IN ADDITION TO SCHEDULED REINFORCING.
- PROVIDE DOWELS WITH STANDARD HOOKS AND/OR PROPER LAP LENGTH TO THE STRUCTURE ABOVE AND BELOW WITH SIZE AND SPACING TO MATCH THE VERT REINF IN THE WALL, TYP UNO.
- THE LAP SPLICE LENGTH OF VERT REINF MUST BE AS SHOWN IN THE MASONRY REINF LAP SPLICE TABLE IN THE GENERAL NOTES. ADJUST HEIGHT OF EACH LIFT AS REQUIRED.
- WHEN A SINGLE CURTAIN OF REINF IS SPECIFIED, PLACE THE VERT REINF IN THE CENTER OF THE WALL, TYP UNO.
- WHEN A DOUBLE CURTAIN OF REINF IS SPECIFIED, PLACE EACH CURTAIN AT THE FACE OF THE WALL WITH THE VERT REINF CLOSEST TO THE SHELL WITH A CLEAR DISTANCE BETWEEN 1/2" AND 1" TO THE INSIDE FACE OF THE SHELL.
- ALL WALLS MUST INCLUDE LADDER TYPE JOINT REINF SPACED AT 16" OC VERTICALLY WITH AT LEAST TWO WIRES OF W1.7 (GALVANIZED).
- SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

MASONRY WALL REINF LAYOUT

US ARMY CORPS OF ENGINEERS

DESIGNED BY: A. VALENCIA
DRAWN BY: R. CARLSON
CHECKED BY: D. CLAYSON
SUBMITTED BY: P. PASZCZUK
SIZE: ANSI D

ISSUE DATE: JULY 17, 2025
SOLICITATION NO.:
CONTRACT NO.:

US ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

KORTE CONSTRUCTION
5700 OAKLAND AVE, SUITE 275
ST. LOUIS, MO 63110

CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494137

STRUCTURAL SCHEDULES

SHEET ID
AOF
S-601

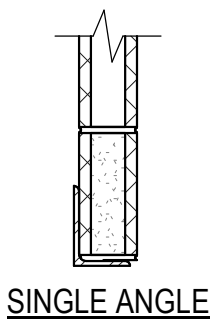
PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

FOR REVIEW

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VENEER LINTEL SCHEDULE

LOOSE INTEL SCHEDULE FOR NON-LOAD BEARING MASONRY WALLS	
OPENING WIDTH	WALL THICKNESS
UP TO 4'-0"	4" WALL
4'-0" TO 6'-0"	L4x3 1/2x5/16 LLV
6'-0" TO 8'-0"	L5x3 1/2x5/16 LLV
8'-0" TO 12'-0"	L6x3 1/2x5/16 LLV
12'-0" TO 16'-0"	L6x6x1/2
	L8x6x5/8 LLV



SINGLE ANGLE

NOTES:

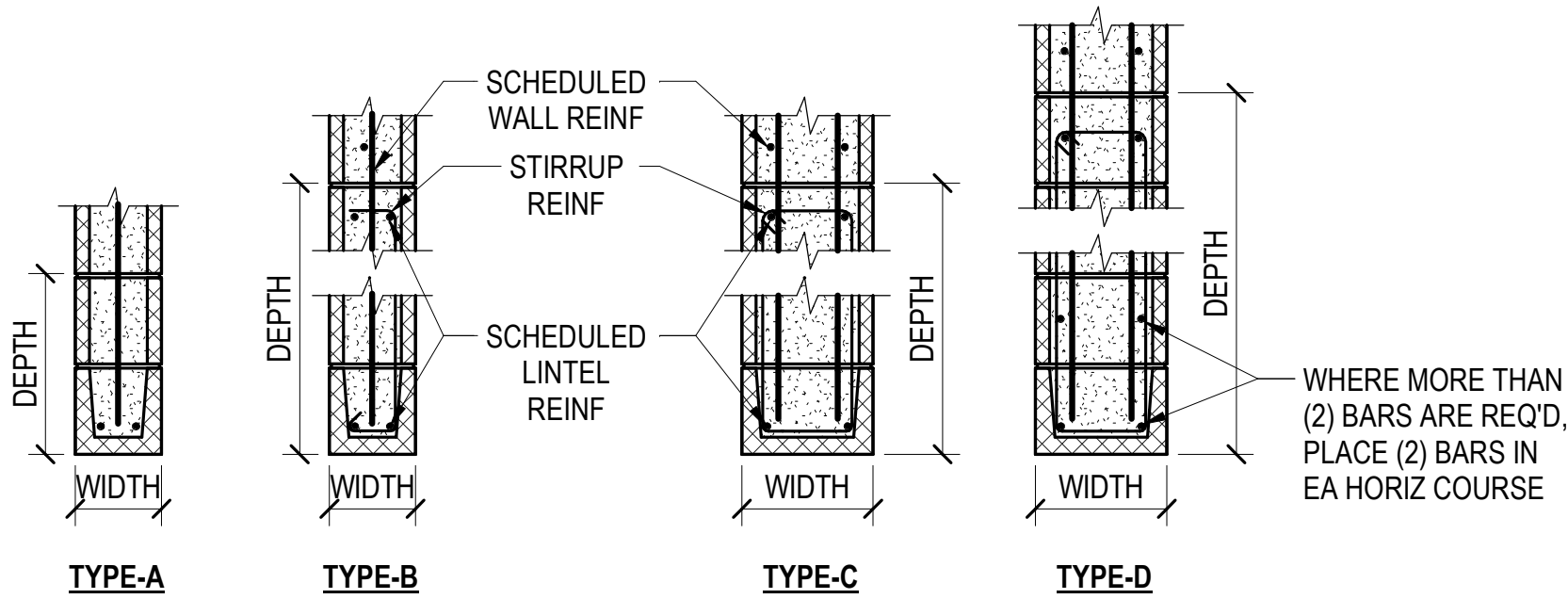
1. RE: STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OPENING SIZE AND LOCATION.
2. CONNECT ALL DOUBLE ANGLES BACK TO BACK AT 2'-0" OC MAXIMUM SPACING.
3. PROVIDE 6" MINIMUM BEARING AT FIRST FULL MASONRY CELL AT EACH END OF LOOSE LINTEL.
4. FOR OPENINGS 6'-0" AND WIDER, FULLY GROUT FIRST FULL CELL EACH SIDE OF OPENING FOR FULL HEIGHT OF WALL.
5. FOR OPENINGS LESS THAN 6'-0" WIDE, FULLY GROUT FIRST FULL CELL EACH SIDE OF OPENING FOR MINIMUM HEIGHT OF 8", BUT NOT LESS THAN THE FULL CELL HEIGHT, BELOW LINTEL BEARING ELEVATION.
6. FULLY GROUT ALL CELLS WHERE LOOSE LINTELS ARE LOCATED.
7. ANGLES IN EXTERIOR WALLS ARE TO BE GALVANIZED.

MASONRY LINTEL SCHEDULE

MARK	WIDTH	DEPTH	TYPE	LINTEL REINFORCING		NOTES
				HORIZONTAL	STIRRUPS	
MB16	7 5/8"	1' - 4"	A	(2) #5	N/A	

NOTES:

1. LINTELS MUST BE OF THE SAME MATERIAL AND WIDTH AS THE WALL IN WHICH THEY ARE CONSTRUCTED.
2. LINTELS MUST BE GROUTED MONOLITHICALLY WITH THE SUPPORTING WALL AND COLUMNS.
3. GROUT LINTELS SOLID FOR DEPTH SHOWN IN THE SCHEDULE, PLUS AS PER DETAILS, STRUCTURAL NOTES, AND/OR WALL SCHEDULE.
4. EXTEND HORIZONTAL REINFORCING 48 BAR DIAMETERS MIN BEYOND THE EDGE OF ALL OPENINGS. PROVIDE A 90° STANDARD HOOK WHERE THIS CANNOT BE ACCOMPLISHED.
5. NO DUCTS, OPENINGS, OR PENETRATIONS WILL OCCUR THROUGH BEAMS UNO.
6. REINFORCING INDICATED IN LINTEL SCHEDULE IS IN ADDITION TO WALL HORIZ AND VERT REINFORCING.
7. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.



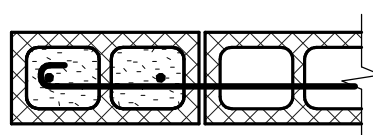
WHERE MORE THAN
(2) BARS ARE REQ'D,
PLACE (2) BARS IN
EA HORIZ COURSE

MASONRY LINTEL TYPES

MASONRY JAMB AND COLUMN SCHEDULE

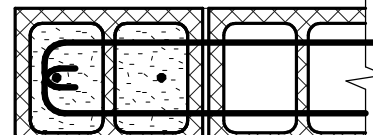
MARK	SIZE	TYPE	COLUMN REINFORCING		NOTES
			VERTICAL	TIES	
MP16	8x16	A2	#5 EA CELL	N/A	
MP24	8x16	A2	#5 EA CELL	N/A	
MP32	8x16	A2	#5 EA CELL	N/A	

TYPE-A COLUMNS



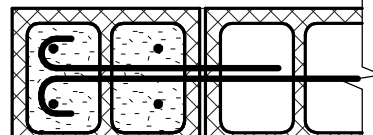
TYPE-A[#]
BOUNDARY / JAMB COLUMN

TYPE-B COLUMNS



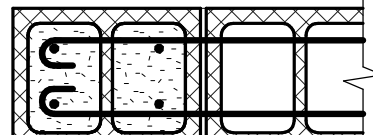
TYPE-B[#]
BOUNDARY / JAMB COLUMN

TYPE-C COLUMNS

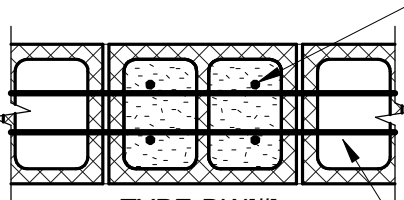


TYPE-C[#]
BOUNDARY / JAMB COLUMN

TYPE-D COLUMNS



TYPE-D[#]
BOUNDARY / JAMB COLUMN

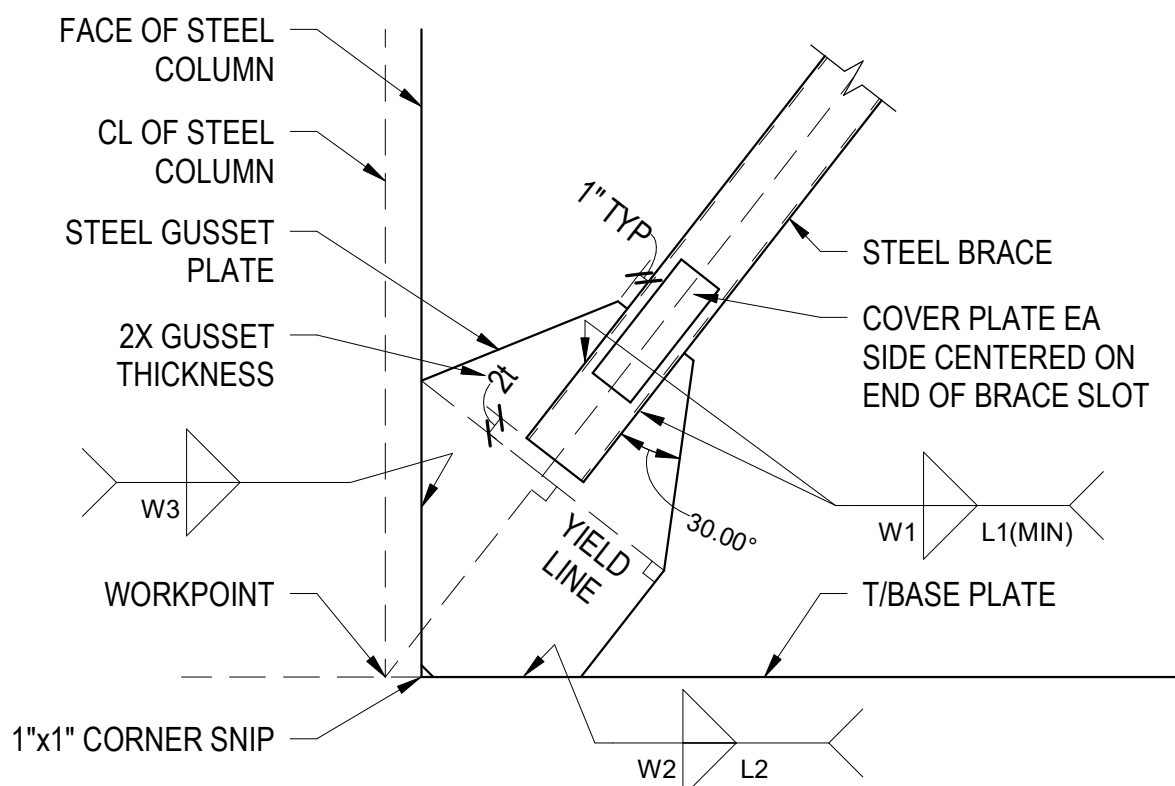


VERT COL REINF IN
GROUTED CELL, TYP

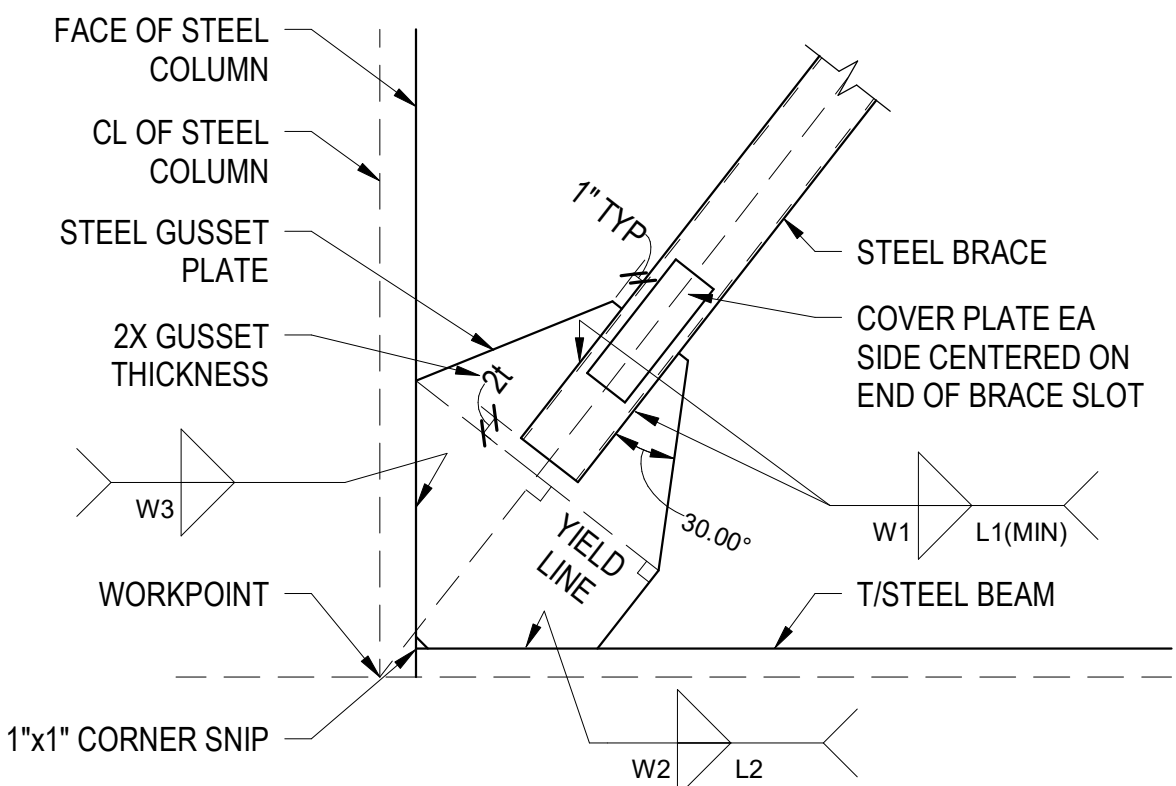
HORIZ WAI | REFIN. T

NOTES:

1. DESIGNATION "TYPE A[#]" WHERE "A" EQUALS THE WALL TYPE IN WHICH THE COLUMN/JAMB OCCURS AND WHERE [#] EQUALS THE NUMBER OF VERTICALLY GROUTED CELLS CONTAINING REINFORCING.
2. HORIZONTAL WALL REINF MUST RUN CONTINUOUS THROUGH MASONRY COLUMNS.
3. GROUT ALL REINFORCED CELLS AND VOIDS SOLID.
4. MASONRY COLUMN REINF MUST EXTEND FULL HEIGHT FROM MARK ON PLAN DOWN TO FOUNDATION AND TERMINATE WITH A STANDARD 90° HOOK. FOR CONC FOUNDATION WALLS HEIGHTS OVER 5'0", VERT MASONRY REINF MUST DOWEL 4" MIN INTO FOUNDATION WALL.
5. NUMBER OF VERT BARS IS TOTAL NUMBER OF BARS.
6. SEE ARCHITECTURAL DRAWINGS FOR SPECIAL COURSING ARRANGEMENTS.
7. ALL TIES MUST TERMINATE WITH A STANDARD MASONRY HOOK.
8. SEE MASONRY REINFORCING SPLICE LENGTH TABLES FOR REINF LAP LENGTHS.
9. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.



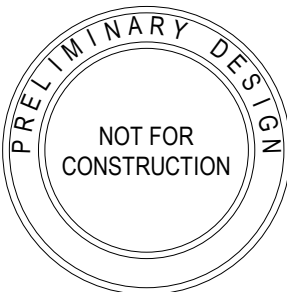
TYPICAL STEEL GUSSET PLATE TO BASE PLATE DETAIL



TYPICAL STEEL GUSSET PLATE TO STEEL BEAM DETAIL

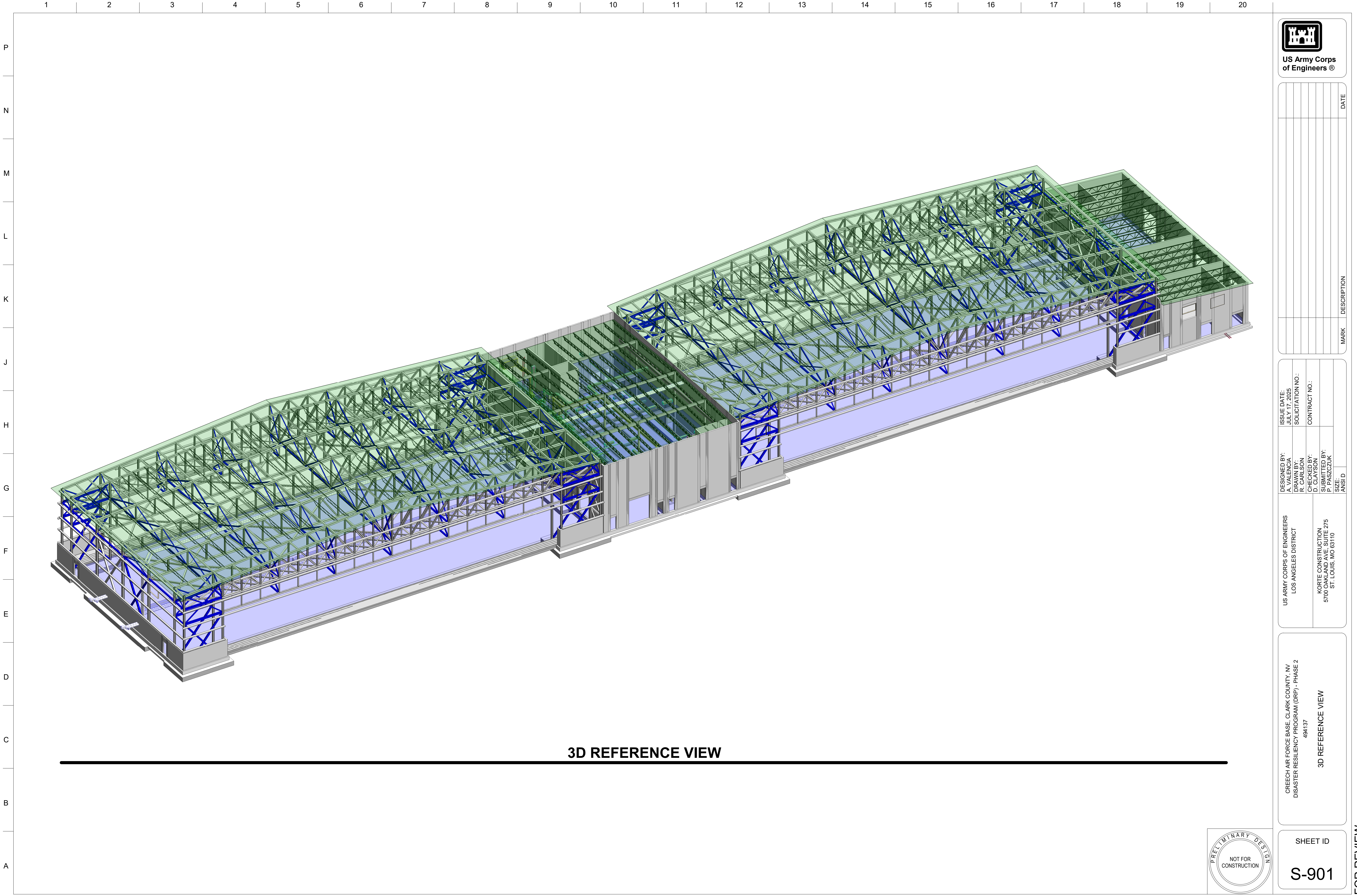
NOTES:

1. RE: BRACED FRAME ELEVATIONS FOR MARKED LOCATIONS OF EACH GUSSET ASSEMBLY.
2. ALL GUSSET PLATES MUST BE A572 GRADE 50 STEEL.
3. ALL COVER PLATES MUST BE A572 GRADE 50 STEEL.
4. AT CONTRACTOR'S OPTION, FILLET WELDS MAY BE REPLACED WITH CJP WELDS SO LONG AS REQUIRED TESTING IS PERFORMED PER GOVERNING BUILDING CODE.
5. YIELD LINE SHOULD EXACTLY INTERSECT WITH COLUMN FACE OR BASE PLATE/BEAM FACE DEPENDING ON THE GEOMETRY.
6. LENGTH L1 IS A MINIMUM WELD LENGTH. USE LENGTH L2 AS A BASELINE TO ESTABLISH THE YIELD LINE.
7. PLACE 1/2" THICK FOAM EACH SIDE OF GUSSET PLATE WHEN CONCRETE POURS AROUND GUSSET PLATE.

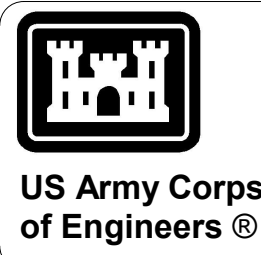
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US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	DESIGNED BY: A. VALENCIA	ISSUE DATE: JULY 17, 2025
	CHECKED BY: R. CARLSON	SOLICITATION NO.:
KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110	CHECKED BY: D. CLAYSON	CONTRACT NO.:
	SUBMITTED BY: MSZCZUK	
ANSI D SIZE:		

CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494137



3D REFERENCE VIEW



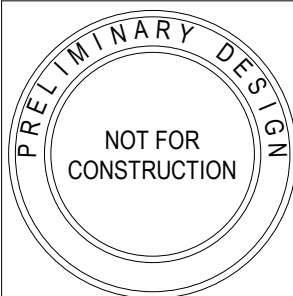
MARK	DESCRIPTION	DATE

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US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	
KORTE CONSTRUCTION 5700 OAKLAND AVE, SUITE 275 ST. LOUIS, MO 63110	

CREECH AIR FORCE BASE, CLARK COUNTY, NV DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2 494137	3D REFERENCE VIEW
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SHEET ID S-901



FOR REVIEW