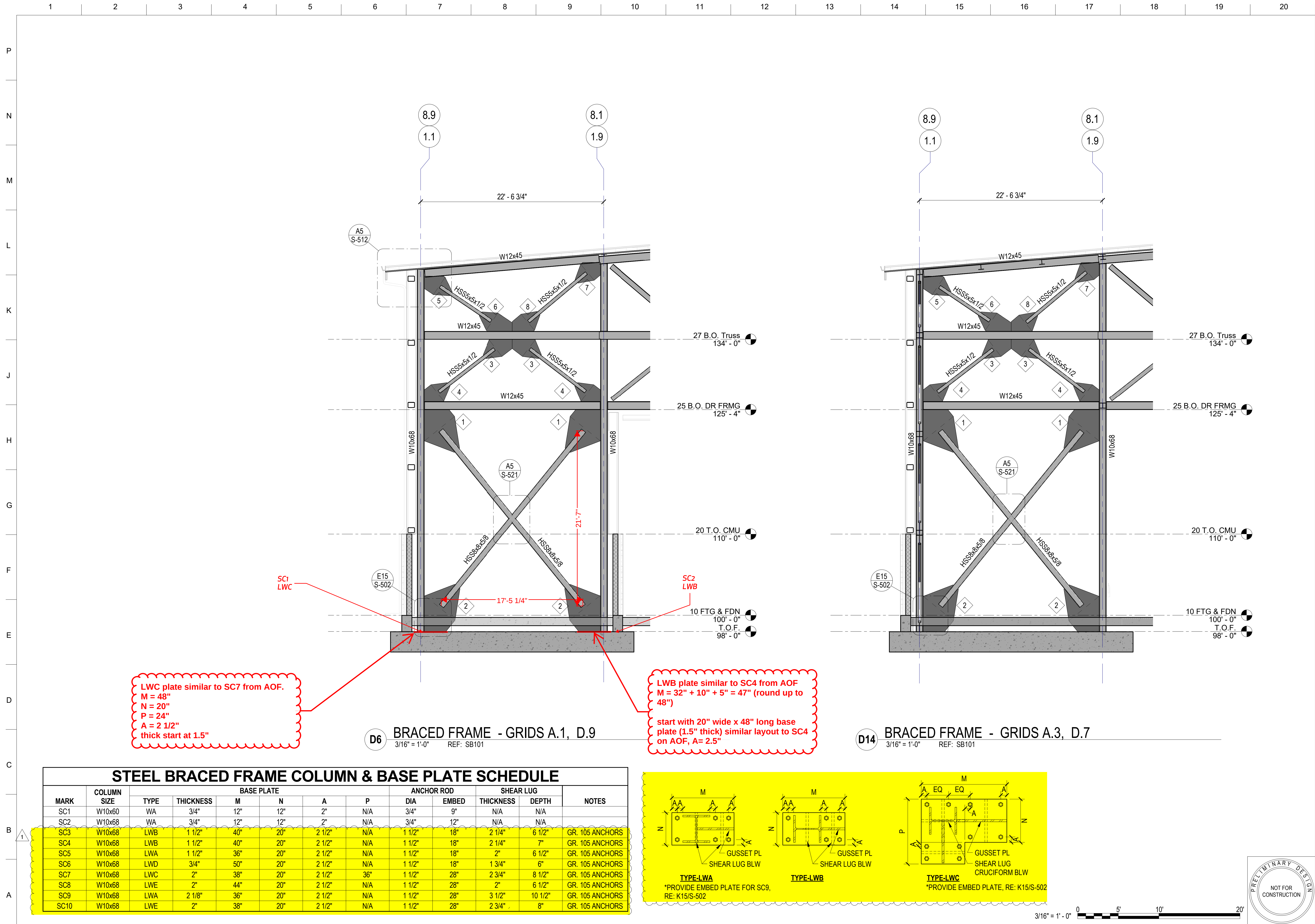




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DATE	DESCRIPTION	MARK

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

ISSUE DATE: NOVEMBER 4, 2025
SOLICITATION NO.: W912PL23RA0012
CONTRACT NO.: W912PL25C0037

US ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

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

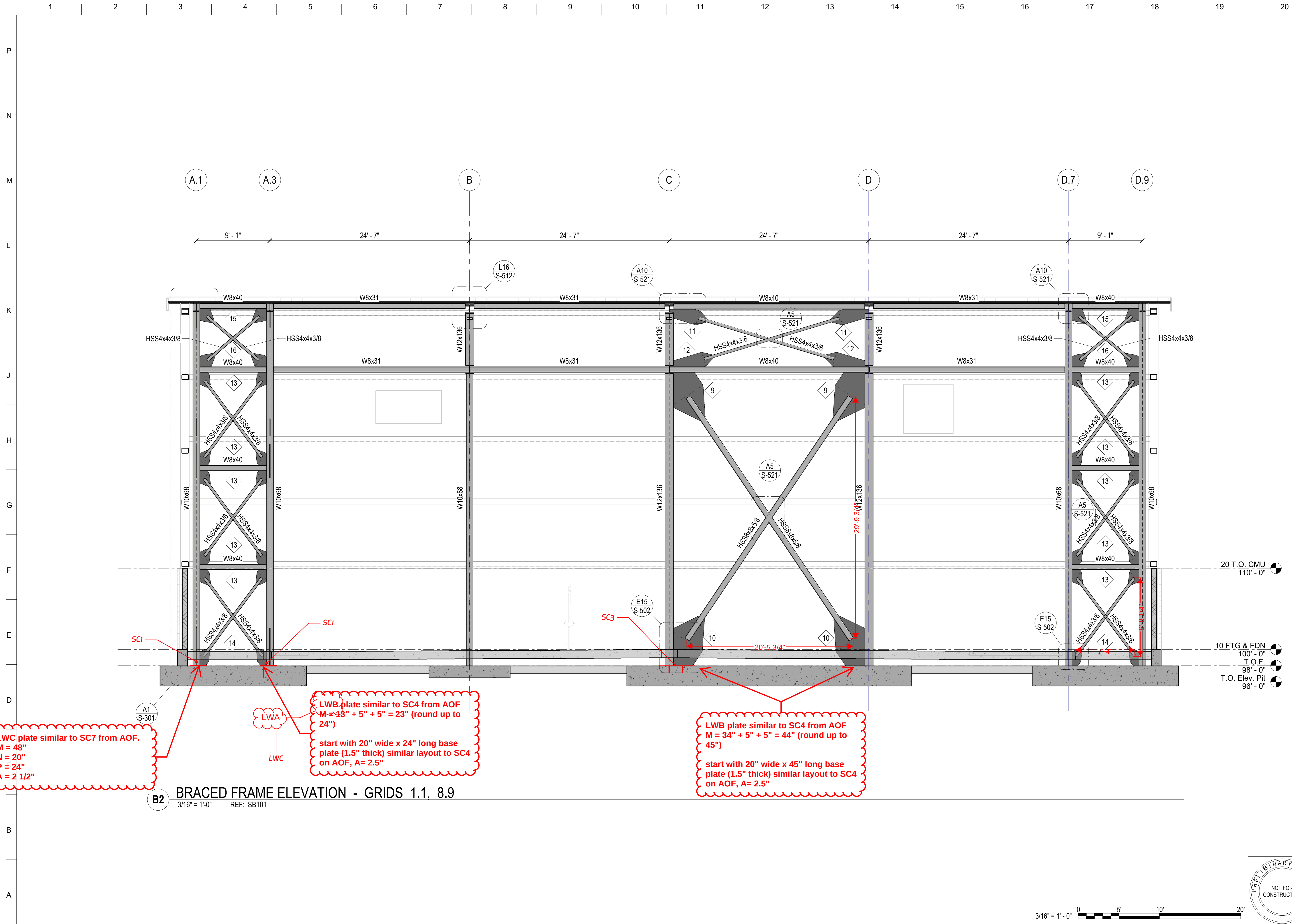
CREECH AIR FORCE BASE, CLARK COUNTY, NV
DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2
494.37

BRACED FRAME ELEVATIONS

SHEET ID

S-201

DP-1 95% SUBMISSION



DESCRIPTION		MARK	DATE

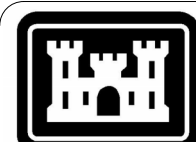
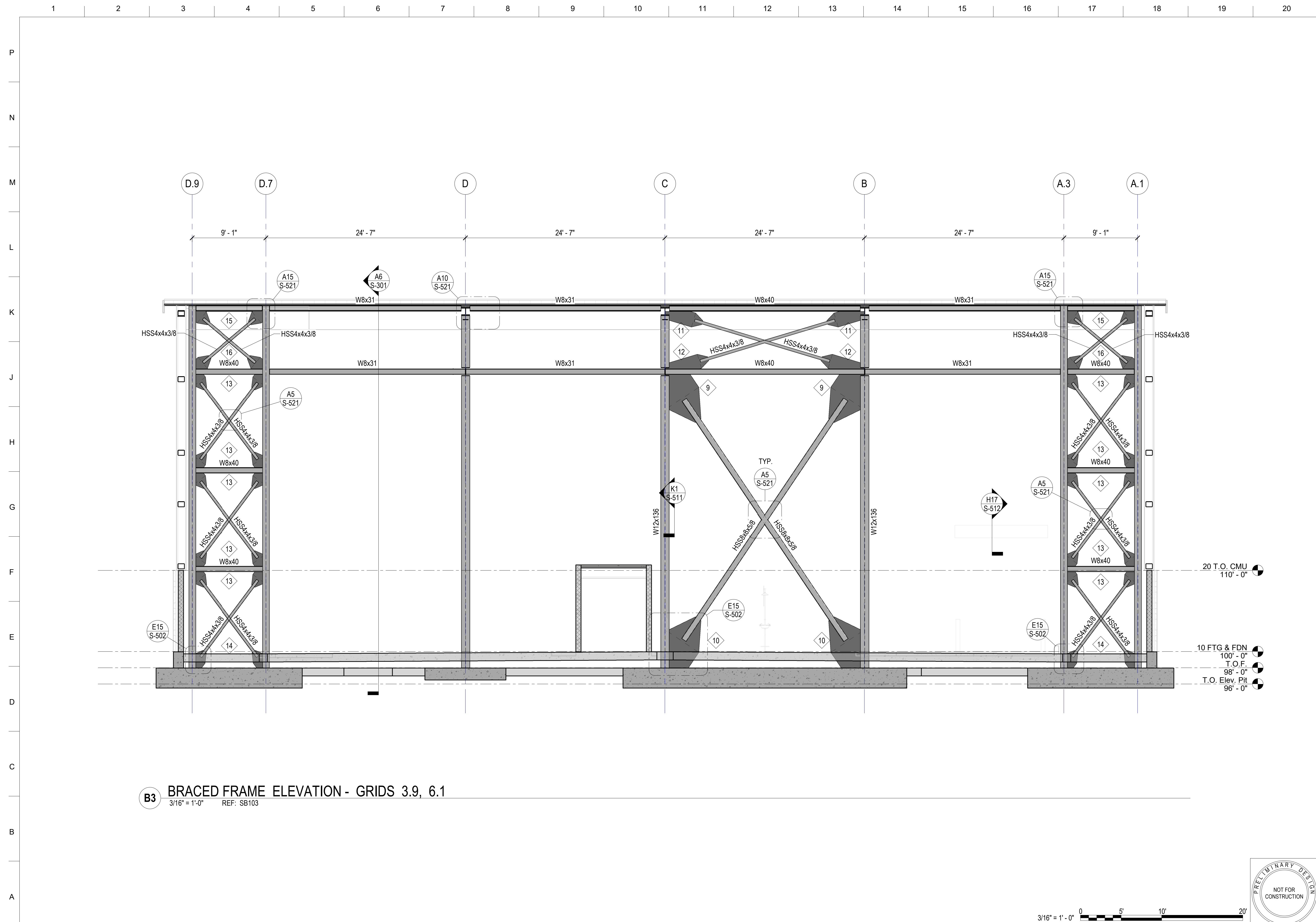
DESIGNED BY: A. VALENCIA		ISSUE DATE: NOVEMBER 4, 2025
DRAWN BY: R. CARLSON		SOLICITATION NO.: W912PL23RA0012
CHECKED BY: D. CLAYSON		CONTRACT NO.: W912PL25C0037
SUBMITTED BY: P. PASZCZUK		
SIZE: ANSI D		

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	BRACED FRAME ELEVATIONS
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SHEET ID
S-202

DP-1 95% SUBMISSION



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US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT	DESIGNED BY: A. VALENCIA	ISSUE DATE: NOVEMBER 5, 2025
	DRAWN BY: R. CARLSON	SOLICITATION NO.: W912PL26R0012
	CHECKED BY: D. CLAYSON	CONTRACT NO.: W912PL23C0037
KORTE CONSTRUCTION 5700 OAKLAND AVE. SUITE 275 ST. LOUIS, MO 63110	SUBMITTED BY: P. HANCOCK	
	SIZE: ANSI D	

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

SHEET ID

S-203

DP-1 95% SUBMISSION

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STEEL BRACED FRAME COLUMN & BASE PLATE SCHEDULE

COLUMN MARK	Structural Shape	BASE PLATE				ANCHOR ROD		SHEAR LUG		NOTES		
		TYPE	THICKNESS	"M" DIM	"N" DIM	"A" DIM	"P" DIM	DIA.	EMBED		THICKNESS	DEPTH
SC-1	W10x68		8" - 4"	100"	100"	1200"	<varies>	8" - 4"	8" - 4"	<varies>	<varies>	
SC-2	W10x88									50" - 0"	50" - 0"	
SC-3	W12x136						<varies>			<varies>	<varies>	
SC-4	HSS8x8x1/2											
SC-5	HSS10x10x1/2											
SC-6	HSS12x12x5/8											

TYPICAL COLUMN BASE CONDITION

TYPICAL BRACED FRAME COLUMN BASE CONDITION

NOTES:

1. ALL BASE PLATES AND SHEAR LUGS MUST BE ASTM A572 GR50 STEEL, TYP UNO

2. 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.

A. ALL ANCHOR RODS MUST HAVE HARDENED WASHERS AND NUTS, WITH FULL HEIGHT OF EXTENSIONS THREADED

B. WASHERS MUST CONFORM TO AISC STEEL CONSTRUCTION MANUAL TABLE 14-2

C. BASE PLATE HOLES MAY INCREASE PER AISC STEEL CONSTRUCTION MANUAL TABLE 14-2

3. 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

4. ALL BASE PLATES MUST BE WELDED TO THE COLUMN WITH A 1/4" FILLET WELD ALL AROUND, TYP UNO

5. ALL ANCHOR RODS MUST BE SET IN PLACE WITH A TEMPLATE. THEY MUST BE PLACED PLUMB AND AT THE CORRECT DEPTH AND EXTENSION

6. THE WIDTH OF ALL SHEAR LUGS IS THE SAME AS THE 'N' DIMENSION SHOWN IN BASE PLATE TYPES

7. NOTCH SHEAR LUGS AS REQ'D TO ACCOMMODATE REINF STEEL

8. SEE THE STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION

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:

1. SEE TYPICAL DETAILS FOR REINFORCING AT CORNERS, INTERSECTIONS, AND OPENINGS.

2. 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.

3. 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.

4. WHEN A SINGLE CURTAIN OF REINF IS SPECIFIED, PLACE THE VERT REINF IN THE CENTER OF THE WALL, TYP UNO.

5. AT TOP AND BTM OF WALL, INCLUDING ALL DECK BEARING ELEVATIONS, PROVIDE (2) #5 CONT IN ADDITION TO SCHEDULED REINFORCING.

6. 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.

7. 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	
FS10.0A	10' - 0"	10' - 0"	2' - 0"	(5)	#6	(5)	#6	
FS10x35	35' - 0"	10' - 0"	2' - 6"					TOP & BOTTOM
FS11.0	11' - 0"	11' - 0"	1' - 6"	(5)	#6	(5)	#6	
FS18x30	18' - 0"	30' - 0"	2' - 6"					TOP & BOTTOM
FC3.0	3' - 0"	CONT	1' - 0"	(4)	#5	--	#5 @ 12" OC	
FC4.0	4' - 0"	CONT	1' - 0"	(5)	#6	--	#5 @ 12" OC	

NOTES:

1. ALL FOOTINGS MUST BEAR ON PROPERLY PREPARED MATERIAL. SEE FOUNDATION SECTION OF THE STRUCTURAL GENERAL NOTES.

2. ALL FOOTINGS MUST BE CENTERED BELOW THE WALL AND/OR COLUMN ABOVE, TYP UNO.

3. ALL EARTH FORMED FOOTINGS MUST HAVE REQUIRED CONCRETE COVER FOR REINFORCEMENT PER THE CONCRETE COVER TABLE.

4. ALL EXTERIOR FOOTINGS MUST BEAR BELOW THE EFFECTS OF FROST. SEE THE DESIGN CRITERIA SECTION OF THE STRUCTURAL GENERAL NOTES FOR MINIMUM BEARING DEPTH.

5. PROVIDE MINIMUM COVER FOR ALL REINFORCING PER THE STRUCTURAL GENERAL NOTES AND/OR THE CONCRETE COVER SCHEDULE.

6. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER, TYP UNO.

7. PLACE TRANSVERSE REINFORCING NEAREST EARTH AND LONGITUDINAL REINFORCING ON TOP OF TRANSVERSE REINFORCING.

8. 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.

9. EXTEND CONTINUOUS FOOTINGS 12" MINIMUM PAST EDGE OF WALL, UNLESS OTHERWISE NOTED ON PLANS.

10. REINFORCING IN CONTINUOUS FOOTINGS MUST PASS THROUGH INTERSECTING SPOT FOOTINGS.

11. ALL REINFORCING FOR SPOT FOOTINGS AND MAT FOOTINGS AT BRACED FRAMES AND MOMENT FRAMES MUST HAVE A 90 DEGREE HOOK AT EA END.

12. PROVIDE DOWELS WITH STANDARD HOOKS FROM FOOTINGS TO ANY REINFORCED ELEMENT ABOVE WITH SIZE AND SPACING TO MATCH VERTICAL REINFORCING IN THE ELEMENT ABOVE.

13. ANY INCREASE IN THE SIZE OF FOOTINGS SHOWN MAY REQUIRE ADDITIONAL REINFORCING. COORDINATE WITH THE ENGINEER OF RECORD.

14. PENETRATIONS THROUGH FOOTINGS ARE NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

15. ALL CONTINUOUS FOOTINGS MUST BE FC2.0 MINIMUM, AND ALL SPOT FOOTINGS MUST BE FS3.0 MINIMUM UNO ON PLANS.

16. 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:

1. SEE TYPICAL DETAILS FOR REINFORCING AT CORNERS, INTERSECTIONS, AND OPENINGS.

2. GROUT ALL CELLS SOLID THAT CONTAIN REINFORCING, EMBEDS, AND/OR BOLTS, TYP.

3. DO NOT SOLID GROUT WALLS' UNO.

4. ALL MASONRY BELOW GRADE MUST BE GROUTED SOLID.

5. LAY ALL BLOCK IN RUNNING BOND, TYP UNO.

6. HORIZONTAL WALL REINF MUST CONTINUE THROUGH LINTELS. WHERE BOTH HORIZ WALL AND LINTEL REINF OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCEMENT ONLY.

7. 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.

8. PROVIDE SCHEDULED BOUNDARY COLUMNS AT END OF WALLS. SEE TYP MASONRY ELEVATION.

9. AT TOP AND BOTTOM OF WALL PROVIDE (2) #5 CONT IN ADDITION TO SCHEDULED REINFORCING.

10. AT ALL DECK AND JOIST EMBED LOCATIONS, PROVIDE (2) #5 CONT IN ADDITION TO SCHEDULED REINFORCING.

11. 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.

12. 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.

13. WHEN A SINGLE CURTAIN OF REINF IS SPECIFIED, PLACE THE VERT REINF IN THE CENTER OF THE WALL, TYP UNO.

14. 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.

15. ALL WALLS MUST INCLUDE LADDER TYPE JOINT REINF SPACED AT 16" OC VERTICALLY WITH AT LEAST TWO WIRES OF W1.7 (GALVANIZED).

16. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

MASONRY WALL CONTROL JOINT

MASONRY WALL TYPES

MASONRY WALL REINF LAYOUT

US Army Corps of Engineers®

ISSUE DATE: NOVEMBER 4, 2025

A VALENCIA

SOLICITATION NO.: W812PL23RA0012

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DRAWN BY: R. CARLSON

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SIZE: ANS I D

US ARMY CORPS OF ENGINEERS

LOS ANGELES DISTRICT

KORTE CONSTRUCTION

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ST. LOUIS, MO 63110

CREECH AIR FORCE BASE, CLARK COUNTY, NV

DISASTER RESILIENCY PROGRAM (DRP) - PHASE 2

494.137

STRUCTURAL SCHEDULES

SHEET ID

S-601

PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

DP-1 95% SUBMISSION

