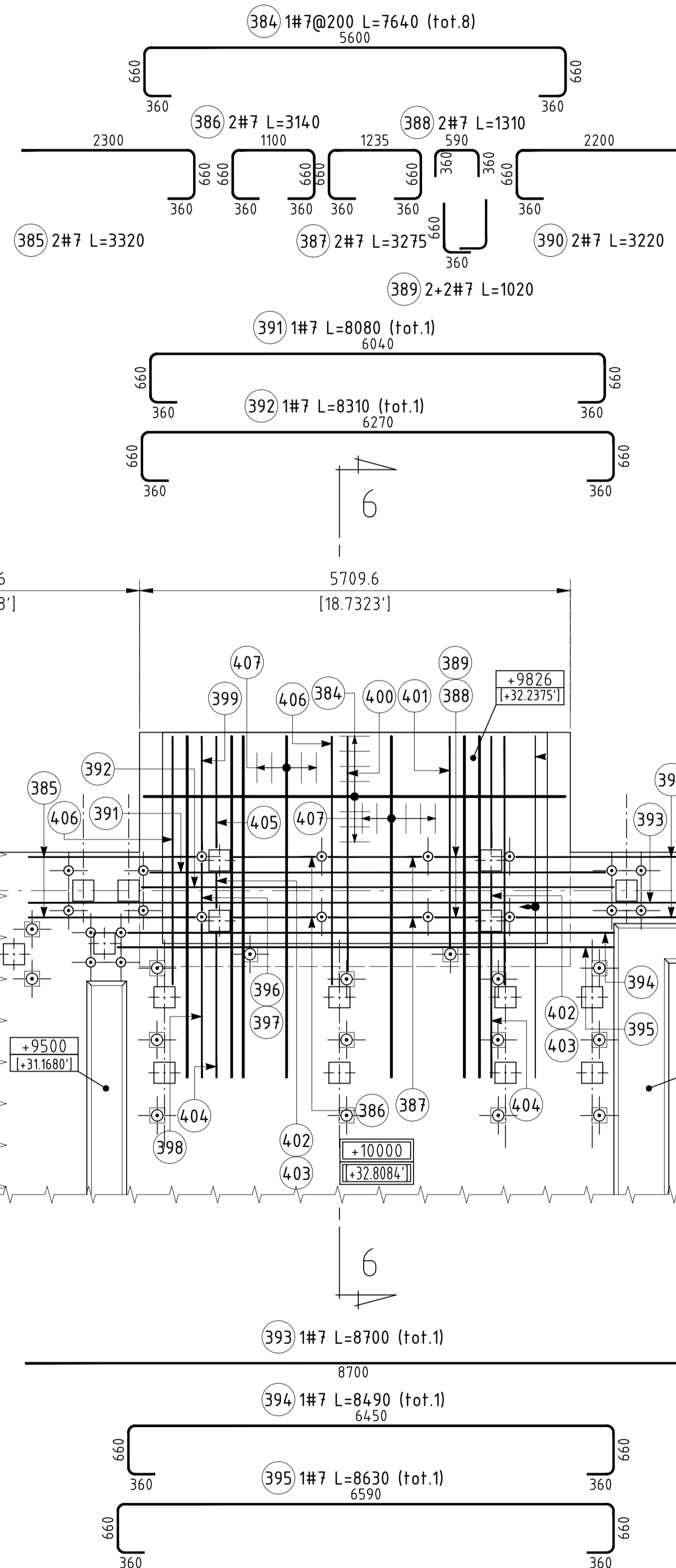
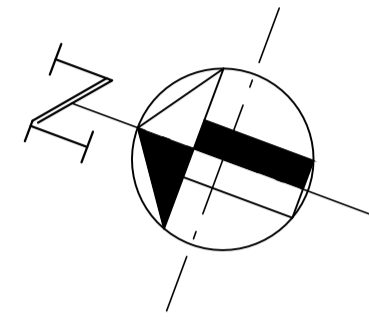
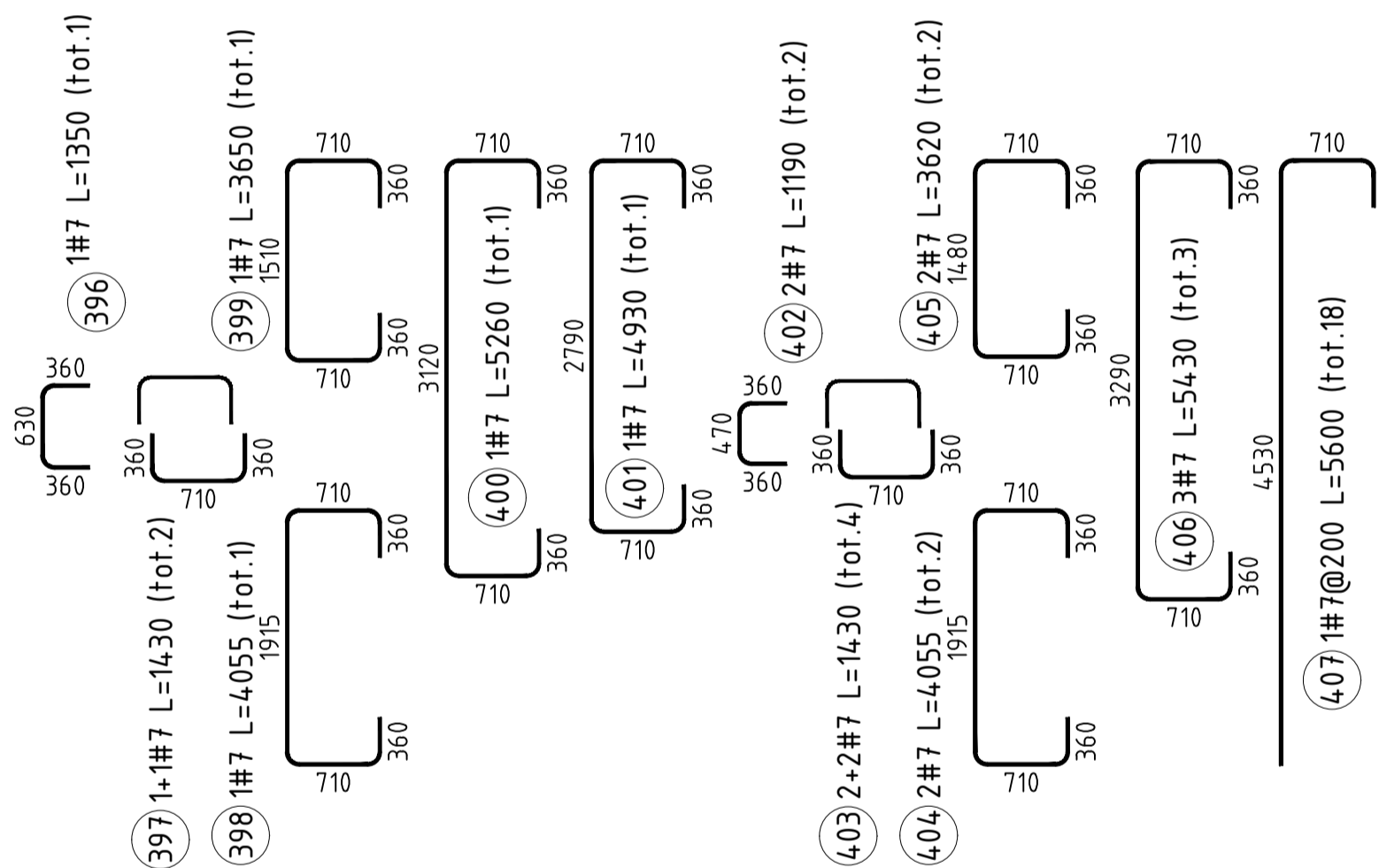
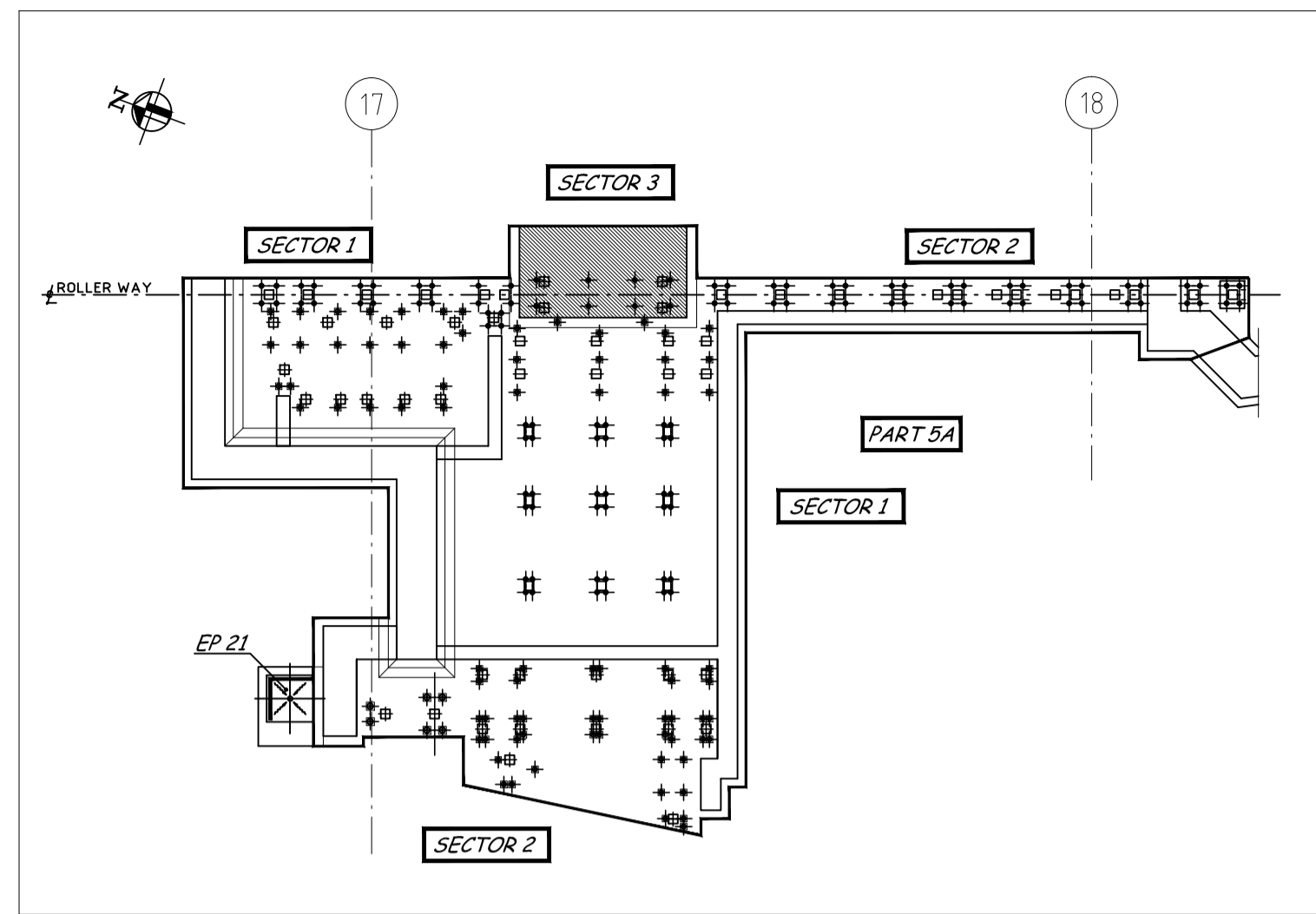


**FOUNDATION PART 5A - SECTOR 3 - TOP REINFORCEMENT**  
SCALE 1:50



**FOUNDATION PART 5A - TOP REINFORCEMENT KEY PLAN**  
SCALE 1:100



**NOTES:**

- 1- FOR CONCRETE MATERIAL CRITERIA AND REINFORCEMENT, SEE STRUCTURAL STANDARD DRAWING 3400-C-TP-000-0640.
- 2- FOR STRUCTURAL STANDARD ABBREVIATIONS AND DRAWING LIST SEE DRAWING 3400-C-TP-000-0641.
- 3- PILE MATERIAL: ASTM A252 Grade 3 (fy=45 ksi)
- 4- PRIMARY UNITS IN MILLIMETERS, SECONDARY UNITS IN FEET-INCHES.
- 5- WELDING OF THE REBAR TO THE PIPE PILES SHALL BE IN ACCORDANCE WITH AWS D1.4 2011 AND AWS D1.1 2010. THE CONTRACTOR SHALL SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) AND PROCEDURE QUALIFICATION RECORD (PQR) TO THE ENGINEER OF RECORD IN WRITING FOR APPROVAL IN ACCORDANCE WITH AWS D1.1 FOURTEEN DAYS PRIOR TO WELDING THE REBAR
- 6- PILES SHALL BE LOAD TESTED IN ACCORDANCE WITH IBC 2009 SECTION 1810.3.3.1.2.
- 7- THE DESIGN AND INSTALLATION OF THE DEEP FOUNDATION ELEMENTS SHALL BE UNDER THE DIRECT SUPERVISION OF A REGISTERED DESIGN PROFESSIONAL KNOWLEDGEABLE IN THE FIELD OF SOIL MECHANICS AND DEEP FOUNDATIONS WHO SHALL SUBMIT A REPORT TO THE BUILDING OFFICIAL STATING THAT THE ELEMENTS AS INSTALLED SATISFY THE DESIGN CRITERIA.
- 8- BACKING BAR SHALL BE DFP CHILL RING BY FOUNDATION PRODUCTS, LLC OR APPROVED SUBSTITUTE.
- 9- WHERE LOWER PILE END AT SPLICE LOCATION IS DAMAGED DURING THE DRIVING, THE DAMAGED PORTION OF THE PILE SHALL BE REMOVED BEFORE SPLICING THE PIPE PILE.
- 10- CONCRETE SHALL BE CONSIDERED LOW PERMEABILITY CLASS P1 PER ACI318 TABLE 4.2.1
- 11- CLEAR COVER :  
FOUNDATIONS : 2"  
WALLS AND SLABS : 1"  
FOR BEAMS & COLUMNS ABOVE GRADE COVER 1-1/2"  
FOR CONCRETE COLUMNS & WALLS BELOW GRADE COVER - 2"  
FOR SLAB ON GRADE FORMED EDGES COVER - 2"  
FOR SLAB ON GRADE CAST AGAINST EARTH COVER - 3"
- 12- ANCHOR ASSEMBLIES SHALL BE PLACED PRIOR TO POURING THE CONCRETE FOUNDATION

**MATERIALS:**

- MUD MATS :	1200 psi	(ACI 318-08)
- CONCRETE FOR FOUNDATIONS	4000 psi	(ACI 318-08)
- CONCRETE FOR ELEVATIONS	5000 psi	(ACI 318-08)
- REINFORCING STEEL :	Gr. 60, fy=60 ksi	(ASTM A615)
- WELDED WIRE FABRIC :		(ASTM A185)

**REFERENCE:**

- 3410-C-EN-110-0007 : BILLET PREPARATION - FOUNDATION PLAN 5th part - AREA 110  
3410-C-AR-110-0001 : BILLET PREPARATION - FOUNDATION REINF. LAYOUT - AREA 110

**ONLY FOR FILE USE**

ISSUED FOR REVIEW	E.800120482-02	IT	ECCD	ECCD	03/20/15		
REV	DESCRIPTION	CaCo Client	OFFICE/NRP	N'DRAWN	CHECKED/APPRO	VoBo	DATE

Date	03/20/15	PLANT or GROUP	BAY CITY	LINE or USER	INFRA	EQUIPMENT	HRM
Drawn	ECCD	Designer	ECCD	Check	ECCD	Approved	
By Post Check	ECCD	FOUNDATIONS REINFORCEMENT - PART 5A - TOP sh.3/3 - AREA 110					

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	REVISION	M	Replace to/for	
	BY	EXROS	DATE	03/20/15
	SIZE	A0		