

- NOTES:**
- ALL DIMENSIONS ARE IN mm, LEVELS ARE IN m AND CHAINAGES ARE IN Km, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
  - THE DESIGN IS FOR SINGLE STACKING SYSTEM FOR SEGMENTS IN THE CASTING YARD.
  - THE HOLES IN THE SOFFIT SLAB FOR TEMPORARY PRESTRESSING SHALL BE LEFT UNGROUTED FOR DRAINAGE PURPOSE.
  - GRADE OF CONCRETE SHALL BE AS FOLLOW:-
    - BOX GIRDER SEGMENTS ..... M55
    - CAST-IN-SITU PORTION OF SLAB ..... M55

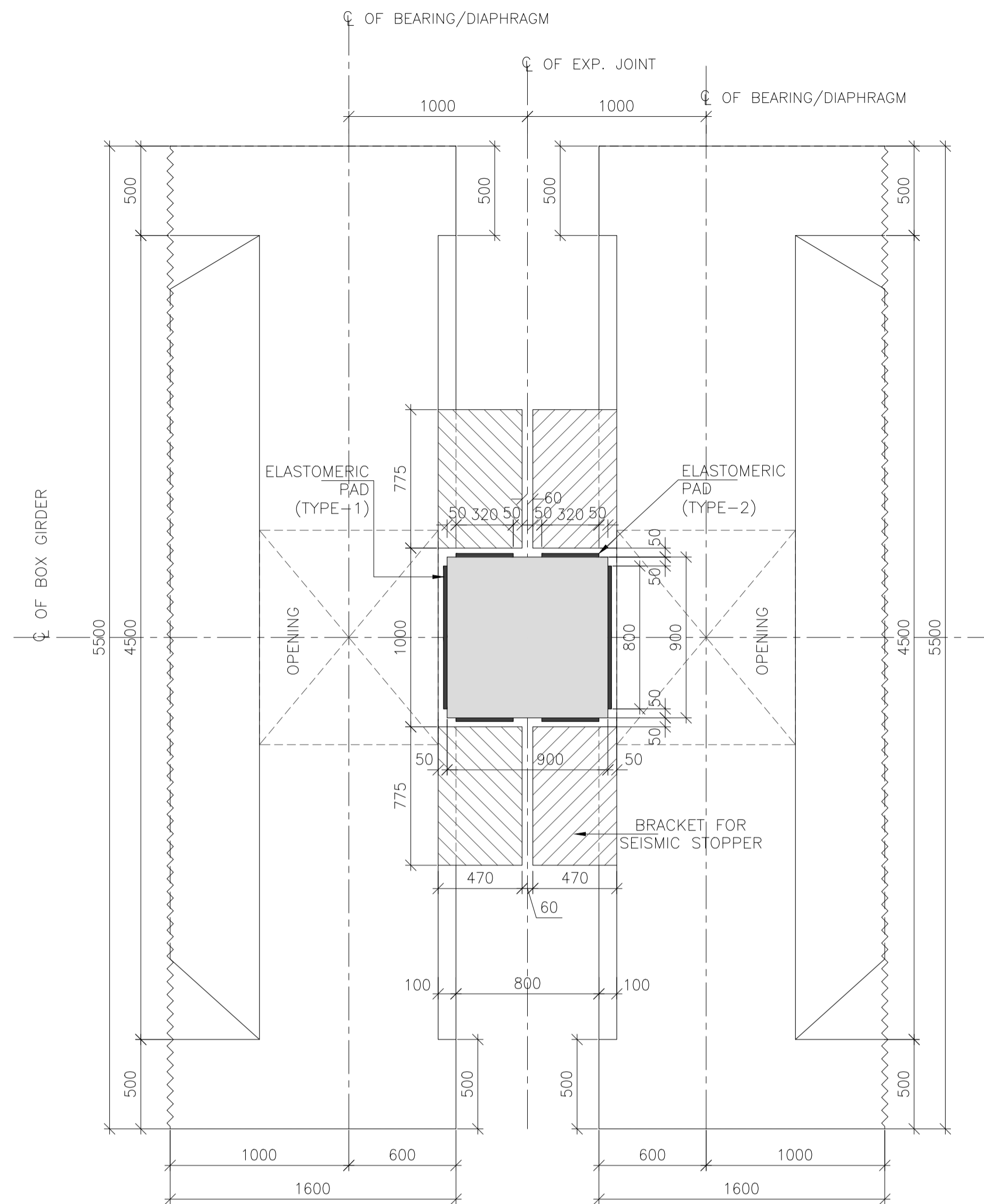
- REFERENCE DRAWINGS:**
- PRESTRESSING DETAILS OF SUPERSTRUCTURE  
APCO-SAP-46+290-MJB-DWG-402 (01 TO 03)
  - DIMENSION DETAILS OF PRECAST SEGMENTS S1 TO S11  
APCO-SAP-46+290-MJB-DWG-403 (SHEET 01 TO 11)
  - REINFORCEMENT DETAILS OF PRECAST SEGMENT S1  
APCO-SAP-46+290-MJB-DWG-404 (SHEET 01 TO 03)
  - REINFORCEMENT DETAILS OF PRECAST SEGMENT S2 TO S11  
APCO-SAP-46+290-MJB-DWG-405 (SHEET 01 TO 05)
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SHEET 01 OF 01 & 02 OF THIS DRAWING.

FOR DIMENSIONAL DETAILS OF EACH SEGMENT REFER SEPARATE DRAWING

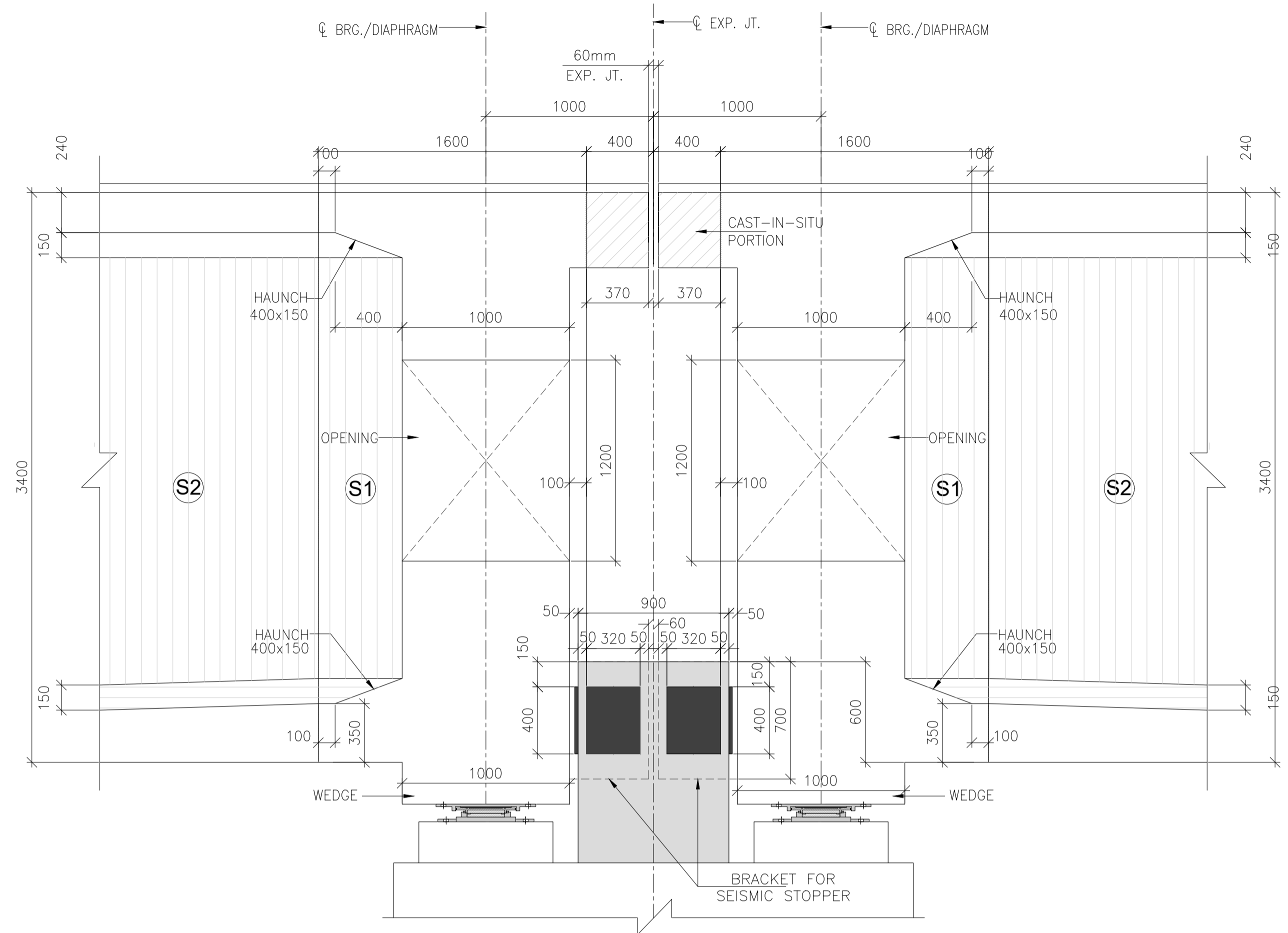


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R0	MAR-2023	FIRST SUBMISSION								APPROVED	A.K.J.	
REV	DATE	DESCRIPTION OF REVISIONS										

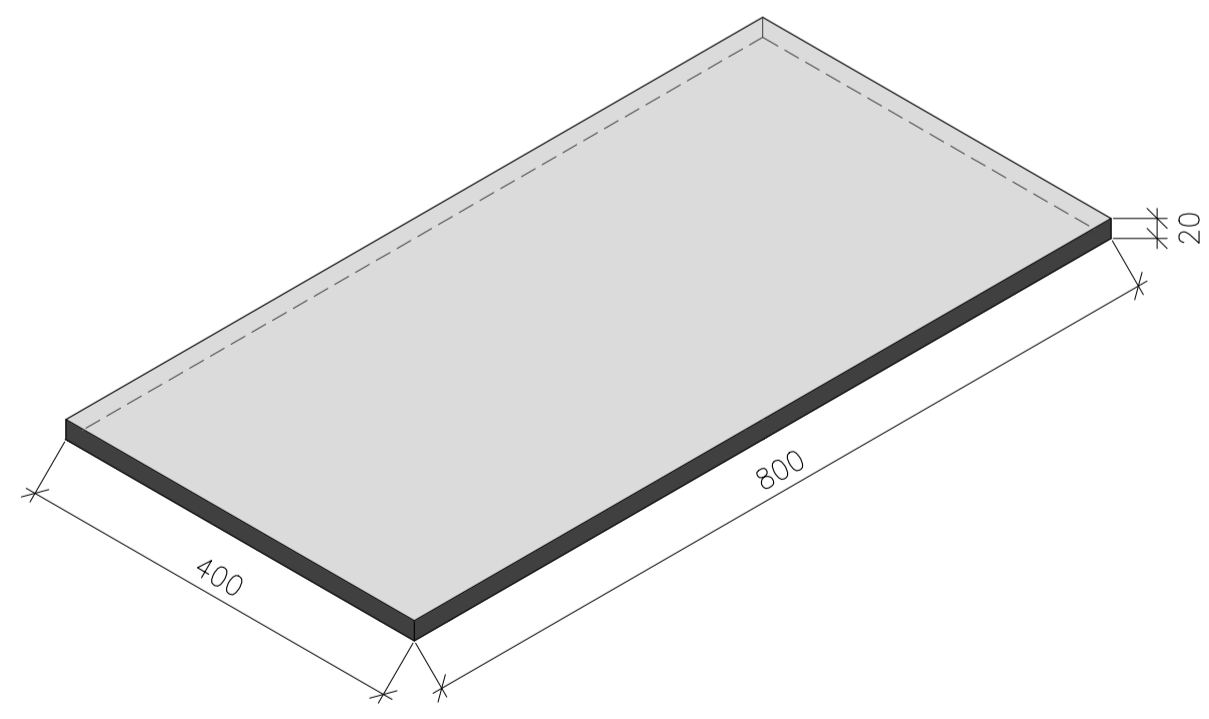




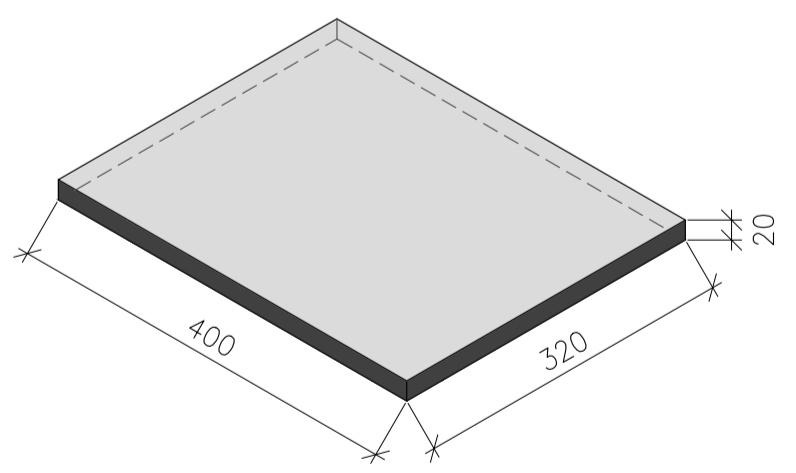
**PLAN (SEISMIC STOPPER DETAIL)**  
(SCALE 1:30)



**SEISMIC STOPPER DETAIL (LONGITUDINAL SECTION)**  
(SCALE 1:30)



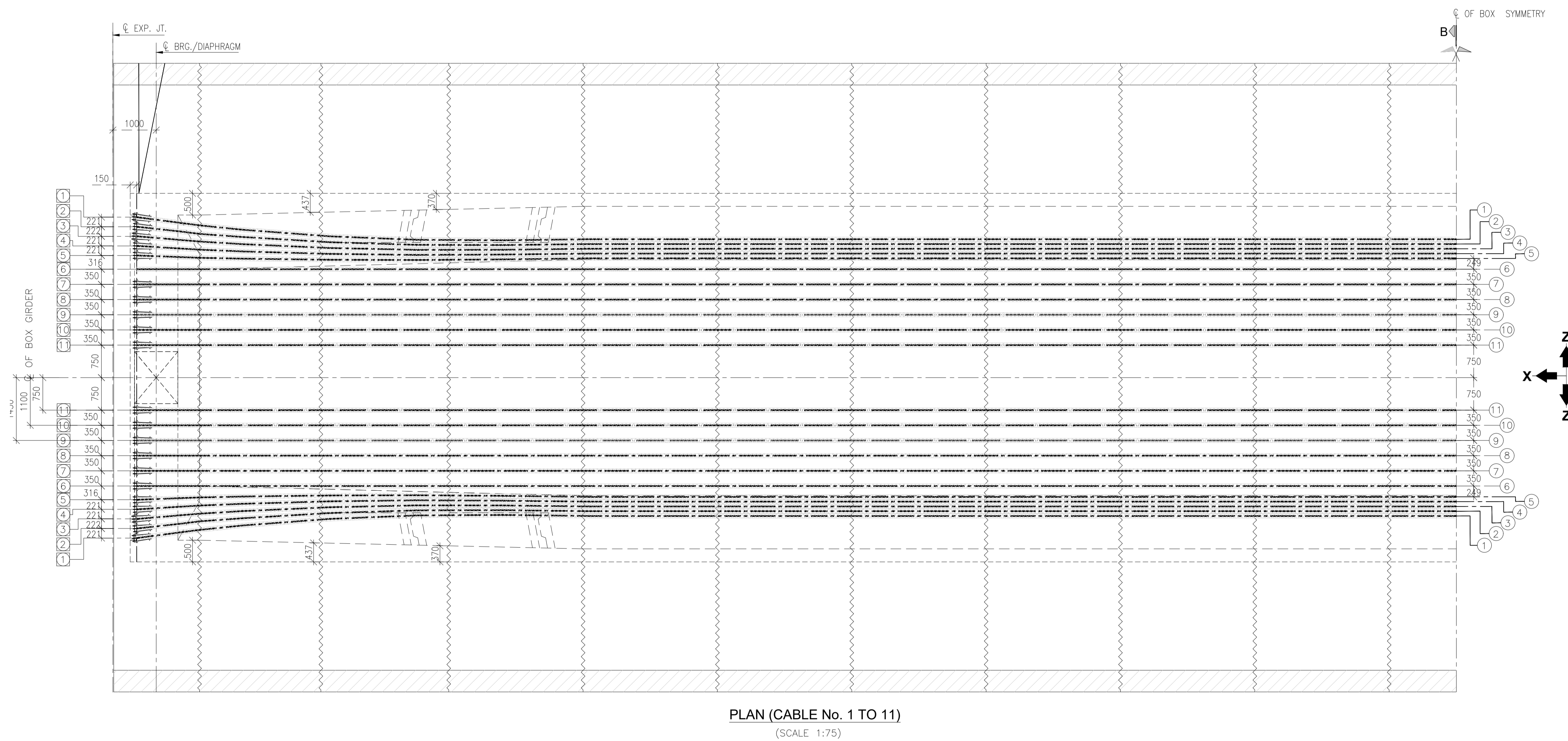
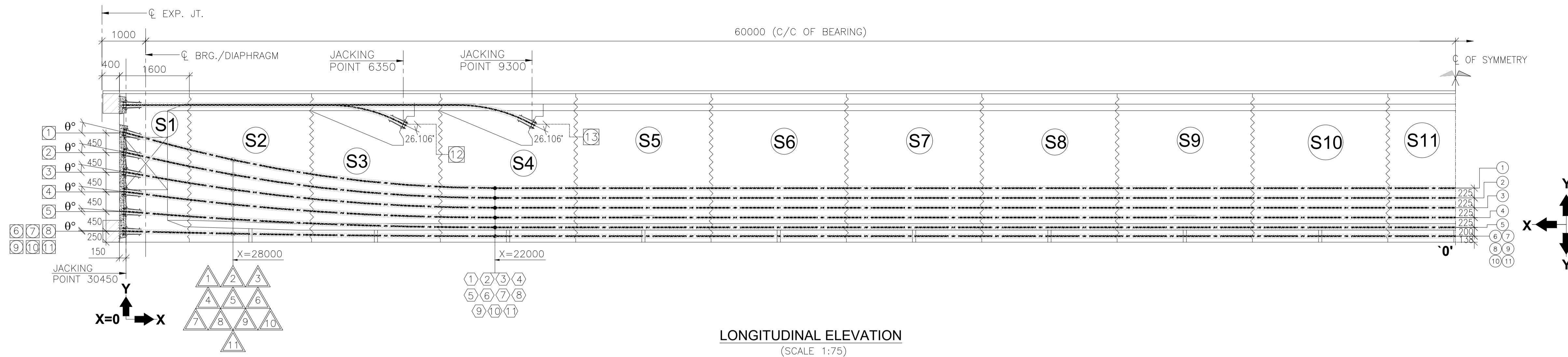
**ELESTOMERIC PAD (TYPE -1)  
FOR SEISMIC STOPPER**  
(SCALE 1:10)



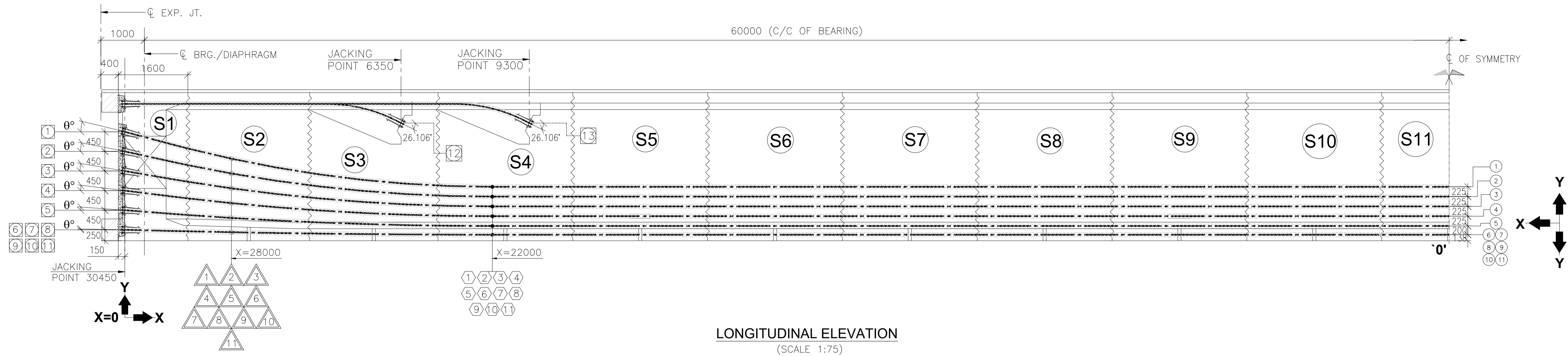
**ELESTOMERIC PAD (TYPE -2)  
FOR SEISMIC STOPPER**  
(SCALE 1:10)



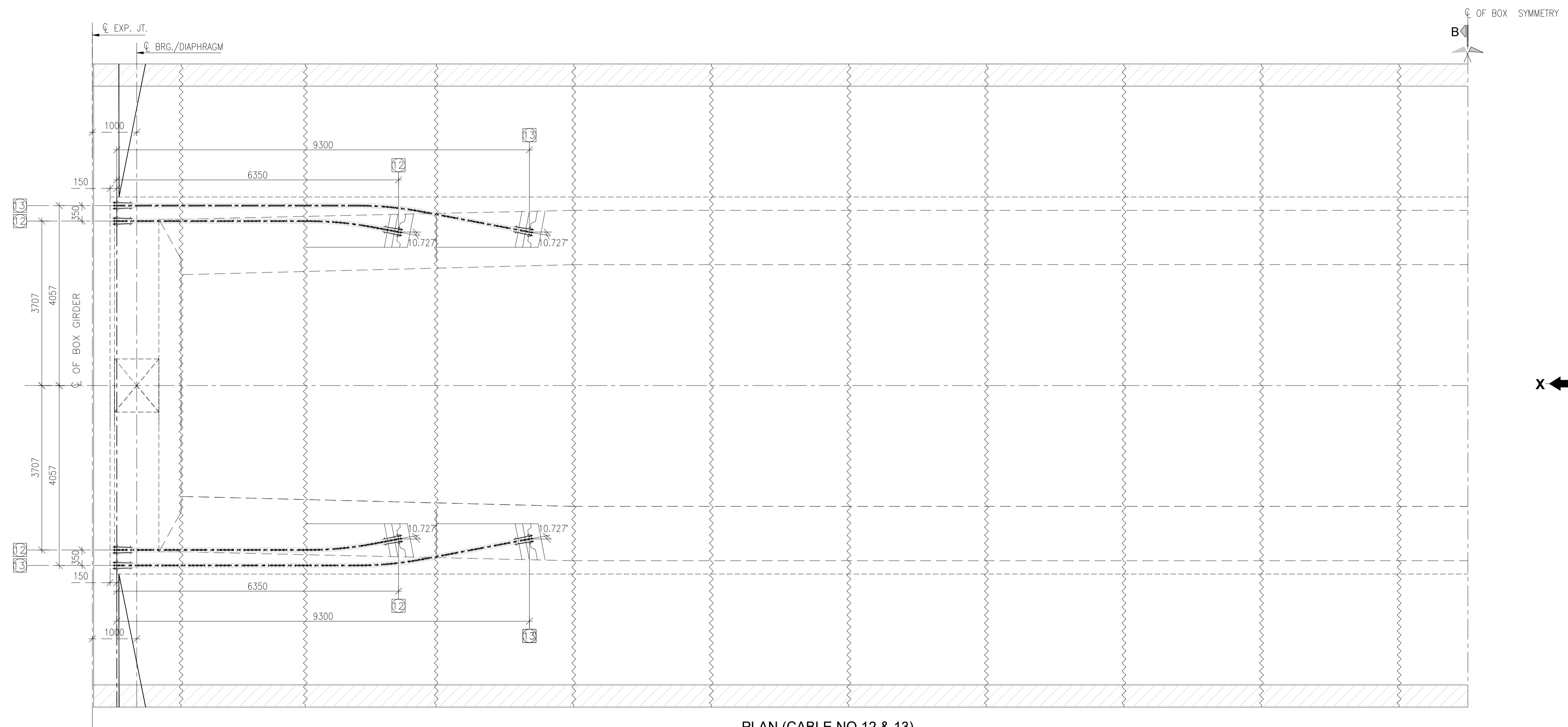
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REV	DATE	DESCRIPTION OF REVISIONS										



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R2	JULY-2023	REVISED AS PER AE'S COMMENTS								DESIGNED	M.S.		<b>SHEET -</b> (01 OF 04) <b>SHEET SIZE -</b> A2
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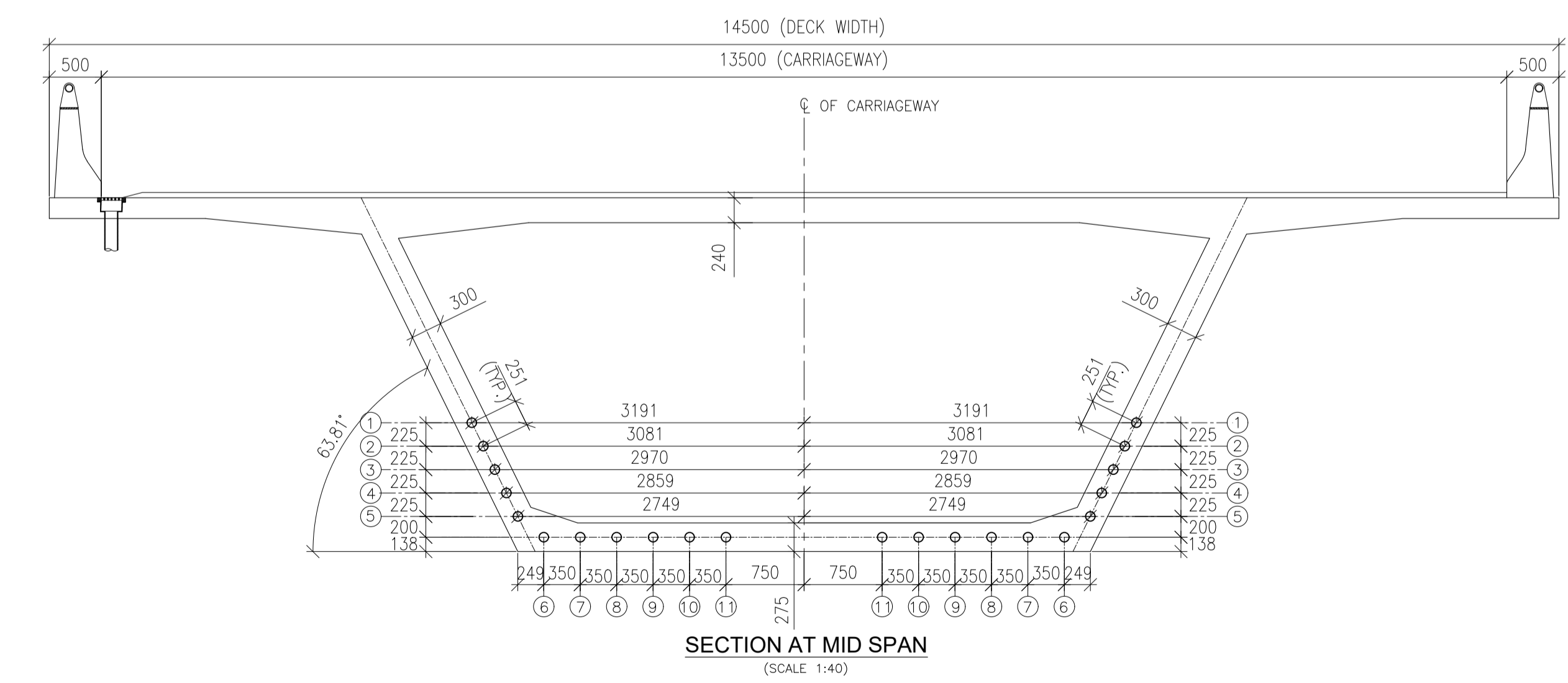
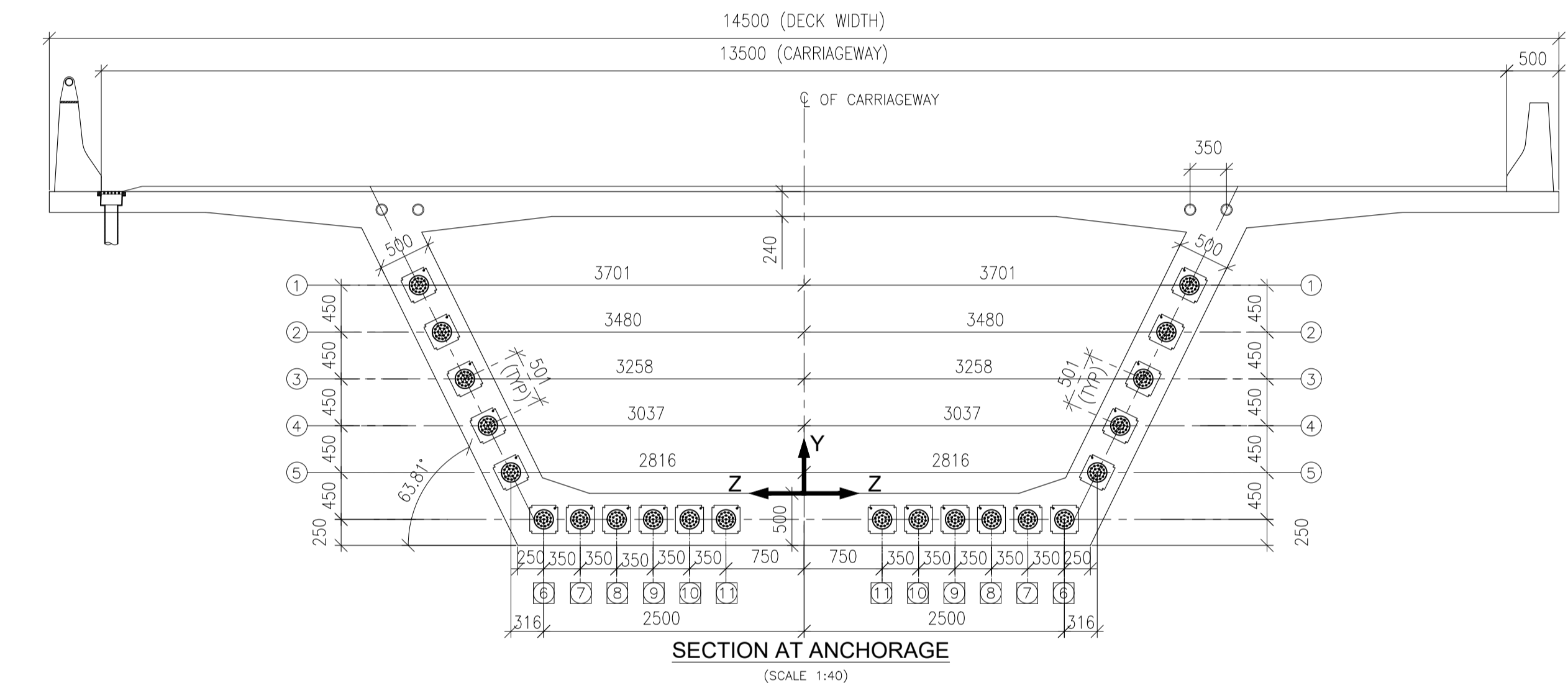
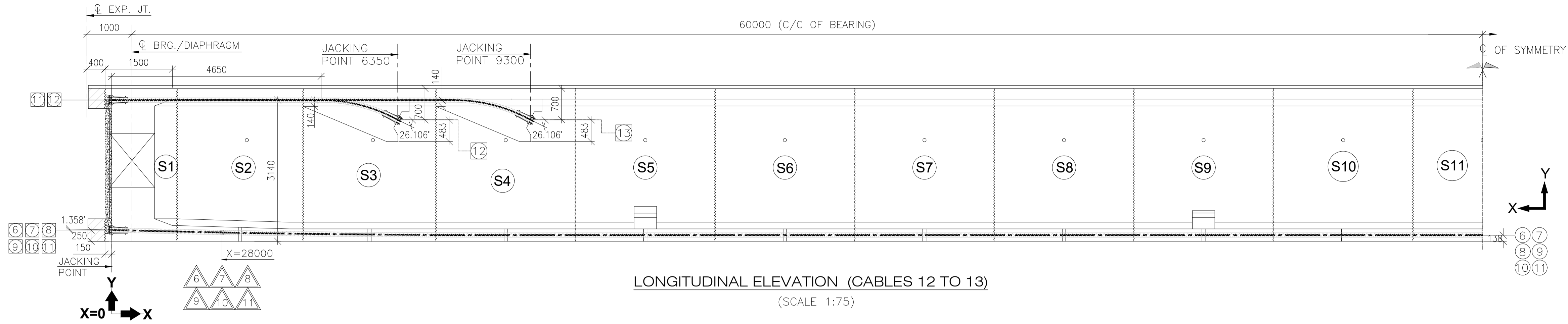
LONGITUDINAL ELEVATION  
(SCALE 1:75)



PLAN (CABLE NO 12 & 13)  
(SCALE 1:75)



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**PRESTRESSING SYSTEM:-**

- a. ALL PRESTRESSING CABELS SHALL HAVE 7 PLY. UNCOATED STRESS RELIEVED. HIGH TENSILE STRANDS OF 15.2mm DIA CONFORMING TO CLASS 2 OF IS 14268-1995.
- b. ONLY CORRUGATED HDPE SHEATHING SHALL BE USED.
- c. THE PARAMETERS ADOPTED FOR DESIGN ARE AS FOLLOWS:
  - i) ANCHORAGE TYPE ----- 19-T-15
  - ii) SLIP AT EACH END ----- 6mm
  - iii) OUTER DIA OF DUCT ----- 120mm
  - iv) CO-EFFICIENT OF FRICTION ----- 0.17/RADIAN
  - v) WOBBLE CO-EFFICIENT . k ----- 0.0020/m
  - vi) NOMINAL AREA OF EACH STRAND ----- 140mm
  - vii) NOMINAL ULTIMATE BREAKING LOAD OF EACH STRAND ----- 260.7 KN
  - viii) MODULUS OF ELASTICITY OF HIGH TENSILE STEEL-1.95x10 MPa<sup>5</sup>
- d. ALL THE DESIGN PARAMETERS ADOPTED SHALL BE VERIFIED AT SITE.
- e. ALL PRESTRESSING ACCESSORIES BEING PATENTED ITEMS. SHALL BE OBTAINED FORM AUTHORISED MANUFACTURERS ONLY.

**2. PRESTRESSING OPERATIONS:-**

- a. ALL CABLES SHALL BE LAID IN SMOOTH CURVES PASSING THROUGH THE GIVEN ORDINATES SUITABLE SPACERS/SUPPORTS AT ALL THE IMPORTANT POINTS AND AT A DISTANCE OF 1000 C/C SHALL BE PROVIDED TO MAINTAIN PROFILE.
- b. RADIUS OF CURVES IN GENERAL & AT BLISTER LOCATION INTO CURVE UPTO 40φ (+ AS PER CABLE PROVISION DUCT SHALL BE MINIMUM 12.0m.
- c. STRESSING OF CABLES SHALL BE CARRIED OUT FROM BOTH ENDS ALL STRANDS IN A CABLE SHALL BE STRESSED SIMULTANEOUSLY. ONLY MULTI-PULL JACKS SHALL BE USED FOR STRESSING.
- d. CABLE LENGTHS MENTIONED IN THE DRAWING ARE INCLUSIVE OF 1000MM EXTRA AT BOTH ENDS.
- e. GROUTING OF CABLES SHALL BE DONE SAME SEQUENCE AS STRESSING HAS BEEN DONE & GROUTING SHALL CONFORM TO PROVISION OF IRC: 112-2011.
- f. ANCHORAGE POCKETS SHALL BE FILLED WITH PREPACKED NON-SHRINK MORTAR. END FACES OF GIRDERS TO BE PAINTED WITH TWO COATS OF EPOXY.
- g. ELONGATION SHALL BE RECHECKED AFTER 24 HOURS OF ANCHORING. TO OBSERVE FOR SLOW SLIPPAGE. THE MATTER SHALL BE REPORTED FOR EXCESSIVE SLIPPAGE. IF ANY.
- h. INITIAL SLACKNESS IN CABLES SHALL BE REMOVED BY APPLYING SMALL TENSION. THE INITIAL TENSION REQUIRED TO REMOVE SLACKNESS SHALL BE TAKEN AS THE STARTING POINT FOR MEASURING ELONGATION & CORRECTION SHALL BE APPLIED AS PER CL. 13.2.1.3 OF IS: 1343-2012.
- i. IN CASE THE CALCULATED ELONGATION AND THE JACK PRESSURE ARE NOT ACHIEVED SIMULTANEOUSLY DURING PRESTRESSING OPERATION. STRESSING SHALL BE CONTINUED/DISCONTINUED AS PER "SPECIAL" NOTES FOR PRESTRESSING" GIVEN IN THE DRAWING.
- j. THE EDGE DISTANCE C/C DISTANCE BETWEEN ANCHORAGE AND THE SPIRAL REINFORCEMENT DETAILS SHALL BE VERIFIED TO CONFORM TO THE MANUFACTURER'S SYSTEM.
- k. IN CASE ACTUAL VALUE OF CROSS SECTIONAL AREA OF STRAND 'A' & MODULUS OF ELASTICITY 'E' VARIES FROM THOSE ASSUMED IN DESIGN. THE ELONGATION GIVEN IN THE DRAWING SHALL BE MODIFIED AT SITE. REVISED ELONGATION SHALL BE CALCULATED AS UNDER  

$$\text{ELONGATION} = \left( \frac{\text{ACTUAL AREA}}{\text{DESIGN AREA}} \right) \times \left( \frac{\text{DESIGN E}}{\text{ACTUAL E}} \right) \times \text{DESIGN ELONGATION}$$
- l. THE GRIP LENGTH FROM ANCHORAGE FACE UPTO GRIPPING POINT IN JACK HAS NOT BEEN CONSIDERED IN THE ELONGATION CALCULATIONS. THE ELONGATION AT JACK END AS GIVEN IN TABLE IS TO BE CORRECTED FORM GRIP LENGTH AS UNDER:  

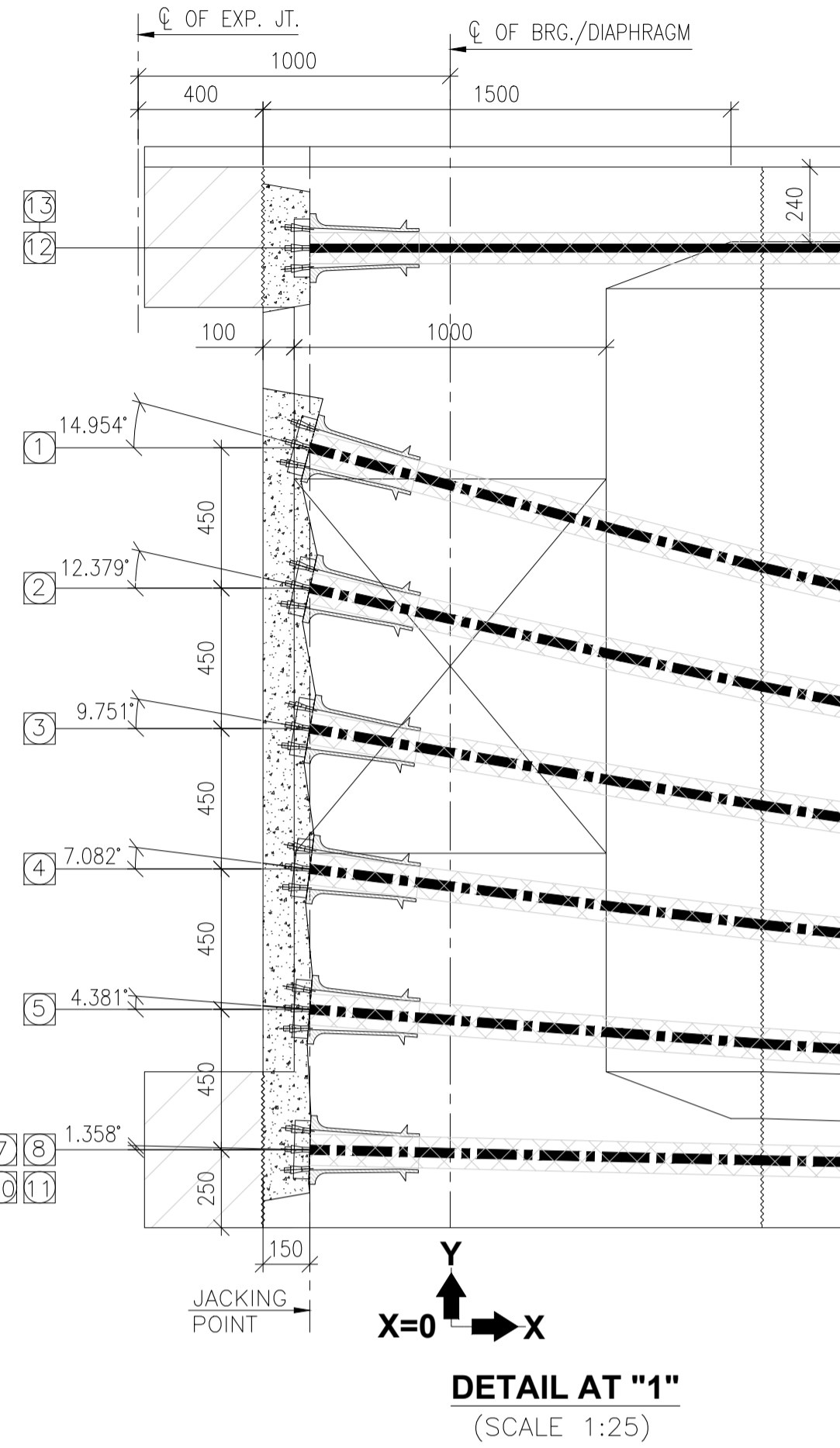
$$\text{REVISED ELONGATION} = \left( \frac{1.95 \times 1.10 \times 5}{\text{NEW MODULUS}} \right) \times \text{ORIGINAL ELONGATION} \times \left( \frac{140}{\text{NEW AREA}} \right)$$
- m. EXTRA LENGTH OF STRANDS PROJECTING BEYOND END BLOCK SHALL NOT BE CUT AFTER STRESSING. PRIOR TO APPROVAL OF GROUTING OPERATION. THESE SHALL BE CUT ONLY WHEN ANCHORAGES WELL BE DONE AS GIVEN IN SPECIFICATIONS.  

$$\text{NEW ELONGATION} = \text{EX} + \left( \frac{\text{JACK FORCE (IN t)} \times 10000}{\text{TENSION AREA (IN mm}^2\text{)} \times \text{E (MPa)}} \right) \times \left( \frac{\text{GRIP LENGTH AT STRESSING END IN mm}}{\text{CABLE LENGTH}} \right)$$



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CABLE NO.	CABLE COORDINATES IN mm.																			
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
01	Y	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1310	1525	1883	2116	2233	2500	
	Z	3191	3191	3191	3191	3191	3191	3191	3191	3191	3191	3191	3168	3179	3259	3410	3512	3570	3701	
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
02	Y	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1072	1249	1543	1715	1831	2050	
	Z	3081	3081	3081	3081	3081	3081	3081	3081	3081	3081	3081	3057	3062	3124	3243	3315	3372	3480	
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
03	Y	788	788	788	788	788	788	788	788	788	788	788	788	834	973	1203	1353	1428	1600	
	Z	2970	2970	2970	2970	2970	2970	2970	2970	2970	2970	2970	2947	2945	2988	3076	3137	3174	3258	
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
04	Y	563	563	563	563	563	563	563	563	563	563	563	563	596	696	863	972	1026	1150	
	Z	2859	2859	2859	2859	2859	2859	2859	2859	2859	2859	2859	2836	2827	2852	2908	2949	2976	3037	
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
05	Y	338	338	338	338	338	338	338	338	338	338	338	338	359	420	523	590	623	700	
	Z	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2725	2711	2716	2741	2762	2778	2816
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
06	Y	138	138	138	138	138	138	138	138	138	138	138	138	144	163	195	216	226	250	
	Z	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
07	Y	138	138	138	138	138	138	138	138	138	138	138	138	144	163	195	216	226	250	
	Z	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150	2150
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
08	Y	138	138	138	138	138	138	138	138	138	138	138	138	144	163	195	216	226	250	
	Z	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
09	Y	138	138	138	138	138	138	138	138	138	138	138	138	144	163	195	216	226	250	
	Z	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
10	Y	138	138	138	138	138	138	138	138	138	138	138	138	144	163	195	216	226	250	
	Z	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	
11	Y	138	138	138	138	138	138	138	138	138	138	138	138	144	163	195	216	226	250	
	Z	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
	X	0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	29000	29450	30450	



- NOTES:-**
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  - THE DESIGN IS FOR DOUBLE STACKING SYSTEM FOR SEGMENTS IN THE CASTING YARD.
  - THE HOLES IN THE SOFFIT SLAB FOR TEMPORARY PRESTRESSING SHALL BE LEFT UNGROUTED FOR DRAINAGE PURPOSE.
  - GRADE OF CONCRETE SHALL BE AS FOLLOW:-
    - BOX GIRDER SEGMENTS ..... M55
    - CAST-IN-SITU PORTION OF SLAB ..... M55
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SHEET 01 OF 03 & 03 OF 03 OF THIS DRAWING.

- SPECIAL NOTE FOR PRESTRESSING:-**
- IF THE CALCULATED ELONGATION IS REACHED BEFORE THE CALCULATED GAUGE PRESSURE IS OBTAINED, CONTINUE TENSIONING TILL ATTAINING THE CALCULATED GAUGE PRESSURE PROVIDED, THE ELONGATION DOES NOT EXCEED 1.05 TIMES THE CALCULATED ELONGATION. IF THE CALCULATED ELONGATION HAS NOT BEEN REACHED CONTINUE TENSIONING IN INTERVALS OF 5 kg/sqcm. UNTIL THE CALCULATED ELONGATION IS REACHED PROVIDED THE GAUGE PRESSURE. IF THE ELONGATION AT 1.05 TIMES THE CALCULATED GAUGE PRESSURE IS LESS THAN 0.95 TIMES THE CALCULATED ELONGATION THE FOLLOWING MEASURES MUST BE TAKEN:
- RECALIBRATE THE PRESSURE GAUGE.
  - CHECK THE CORRECT FUNCTIONING OF THE JACK PUMP & LEADS.
  - DETENSION THE CABLE SLIDE IT IN ITS DUCT TO CHECK THAT IT IS NOT BLOCKED BY MORTAR WHICH HAS ENTERED THROUGH HOLES IN THE SHEATH. RETENSION FINISHING OPERATION SUCH AS CUTTING OR SEALING SHOULD NOT BE UNDER TAKEN WITHOUT THE APPROVAL OF THE DESIGN OFFICE.
  - THE GAUGE PRESSURE FOR PRESTRESSING SHALL BE WORKED OUT PRIOR TO ANY STRESSING OPERATION DULY TAKING IN TO ACCOUNT THE RAM AREA OF THE JACK & THE JACK EFFICIENCY. THE STRESSING EQUIPMENTS SHALL BE WELL MAINTAINED AND THE CALIBRATION CHARS SHALL BE AVAILABLE AT SITE.

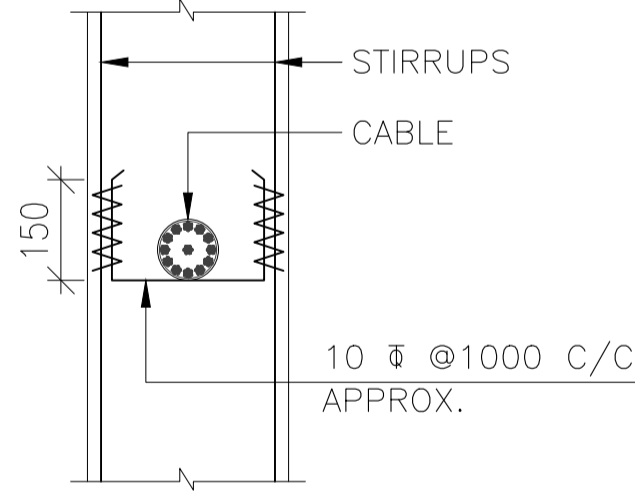
**LEGEND:-**

	INDICATES START OF CURVE IN ELEVATION
	INDICATES END OF CURVE IN ELEVATION
	INDICATES END OF CABLE, AS WELL AS CURVE IN ELEVATION
	INDICATES CABLE NUMBER

**SCHEDULE OF CABLE FORCE AND EXTENSION:-**

CABLE NO.	TOTAL LENGTH OF CABLE (IN m)	THEORETICAL ELONGATION AT EACH END Δ (mm)	EMERGENCE ANGLE OF CABLE (θ)		NO. OF STRANDS	SEQUENCE OF STRESSING	JACKING FORCE PER CABLE (Tonne)	U.T.S. OF EACH STRANDS (N/mm²)
			HORIZONTAL	VERTICAL				
01	63.145	201.127	7.463°	14.954°	19	11 BOTH END STRESSING	391.200	1862
02	63.066	203.543	6.164°	12.379°	19	10 BOTH END STRESSING	391.200	1862
03	63.002	206.209	4.802°	9.751°	19	9 BOTH END STRESSING	391.200	1862
04	62.954	208.948	3.491°	7.082°	19	8 BOTH END STRESSING	391.200	1862
05	62.920	211.831	2.176°	4.381°	19	7 BOTH END STRESSING	391.200	1862
06	62.920	218.434	-	1.358°	19	6 BOTH END STRESSING	391.200	1862
07	62.920	218.311	-	1.358°	16	5 BOTH END STRESSING	329.500	1862
08	62.920	218.311	-	1.358°	16	4 BOTH END STRESSING	329.500	1862
09	62.920	218.311	-	1.358°	16	3 BOTH END STRESSING	329.500	1862
10	62.920	218.311	-	1.358°	16	2 BOTH END STRESSING	329.500	1862
11	62.920	218.311	-	1.358°	16	1 BOTH END STRESSING	329.500	1862
12	6.369	48.222	10.727°	26.106°	19	ONE END STRESSING	391.200	1862
13	9.345	70.303	10.727°	26.106°	19	ONE END STRESSING	391.200	1862

CABLE NO.	CABLE COORDINATES IN mm.					
12	X	0	1850	5570	6350	0
	Y	3000	3000	2859	2556	0
	Z	3707	3707	3605	3461	0
13	X	0	1850	5570	8406	9300
	Y	3000	3000	3000	2907	2562
	Z	4057	4057	4057	3630	3461



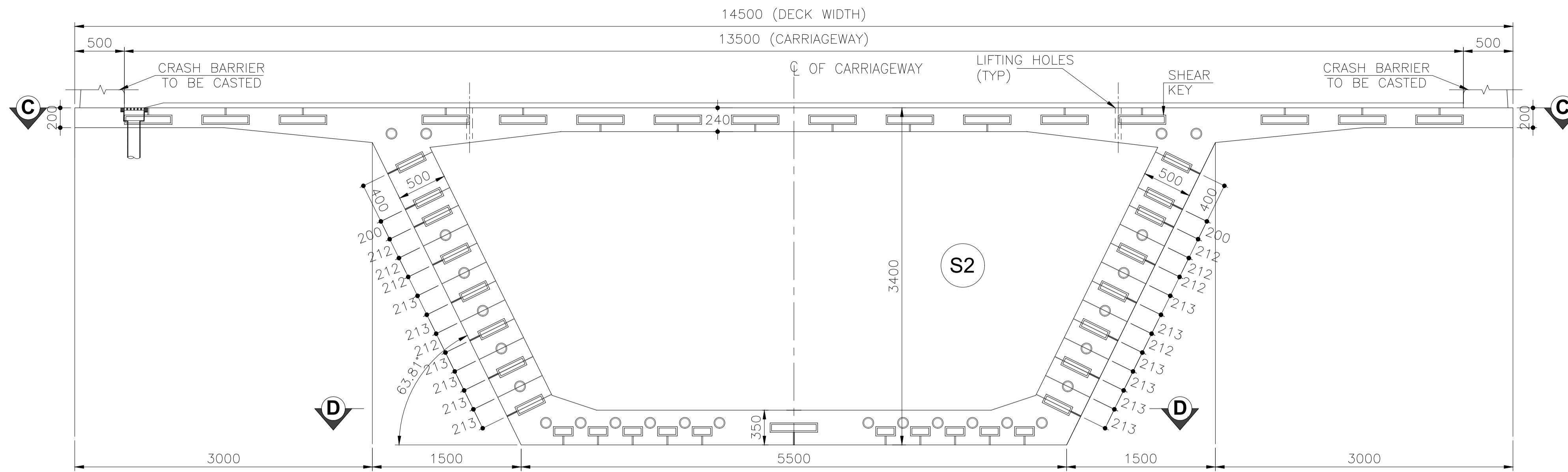
**TYPICAL DETAIL OF SUPPORTING ARRANGEMENT FOR CABLES**  
(SCALE 1:15)

JACKING FORCE OF 77.5% OF UTS HAS BEEN APPLIED.

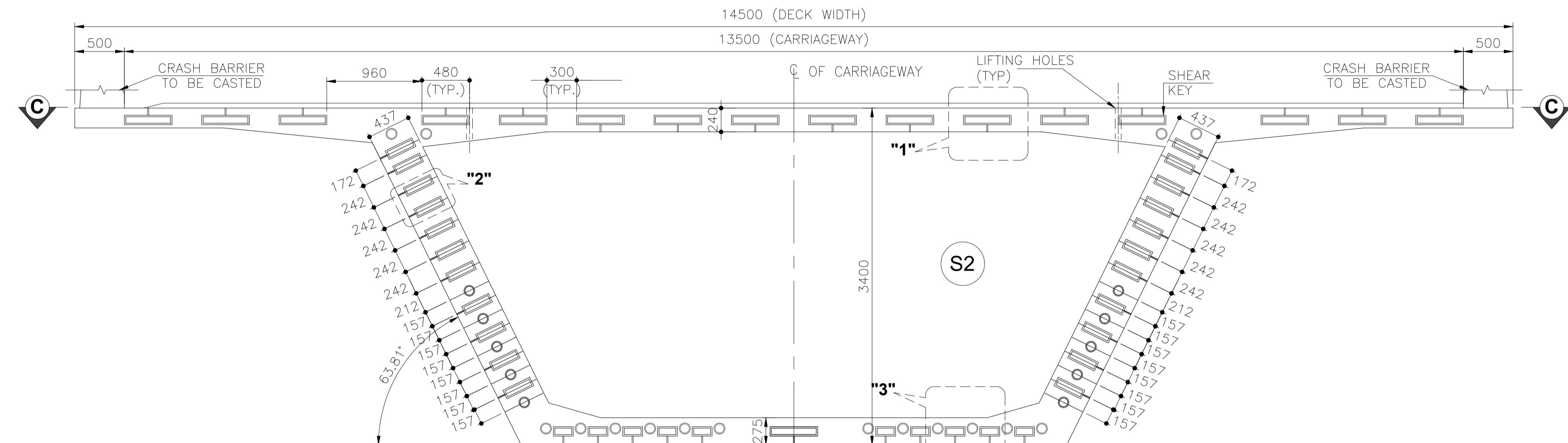


R3	AUG.-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRATECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHANSHYAM-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3, VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 316, 3rd FLOOR RG MALL, 15C, SECTOR-9, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Sharnli - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S.	<b>TITLE -</b> PRESTRESSING DETAILS OF PSC SEGMENTAL SUPERSTRUCTURE (60.0m C/C OF BRG.) FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290  <b>DRAWING NO -</b> APCO-SAP-46+290-MJB-DWG-402  <b>SCALE - AS SHOWN</b> <b>SHEET - (04 OF 04)</b> <b>SHEET SIZE - A2</b>
R2	JULY-2023	REVISED AS PER AE'S COMMENTS								DESIGNED	M.S.	
R1	MAY-2023	REVISED AS PER PCC COMMENTS								CHECKED	K.S.	
R0	MAR - 2023	FIRST SUBMISSION								APPROVED	A.K.J.	
REV	DATE	DESCRIPTION OF REVISIONS										

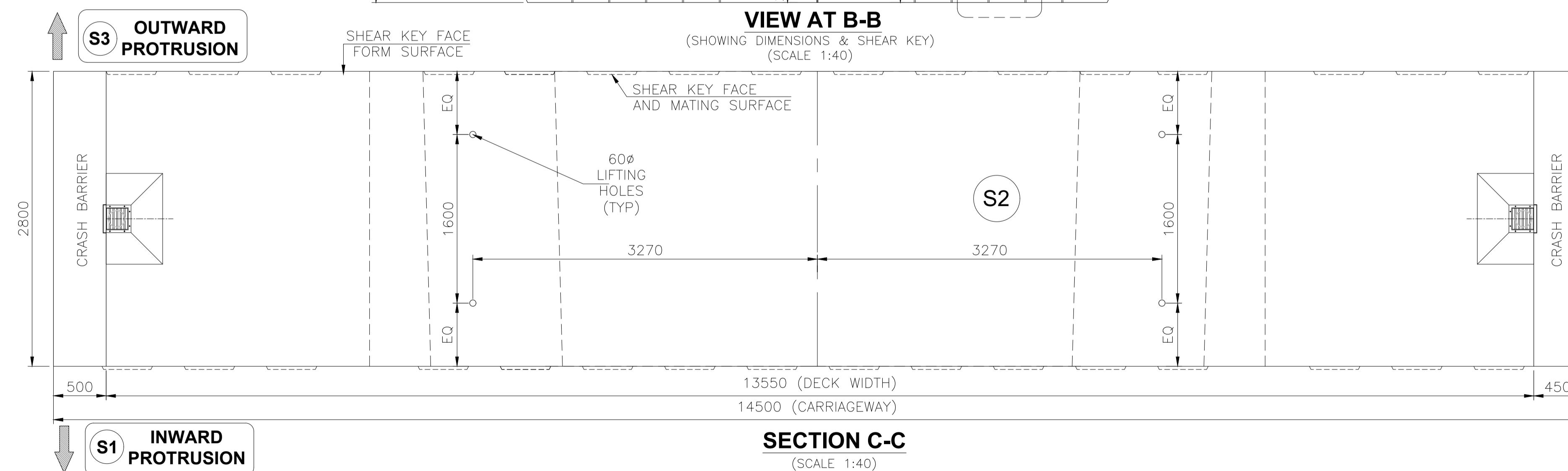




**VIEW AT A-A**  
(SHOWING DIMENSIONS)  
(SCALE 1:40)



**VIEW AT B-B**  
(SHOWING DIMENSIONS & SHEAR KEY)  
(SCALE 1:40)



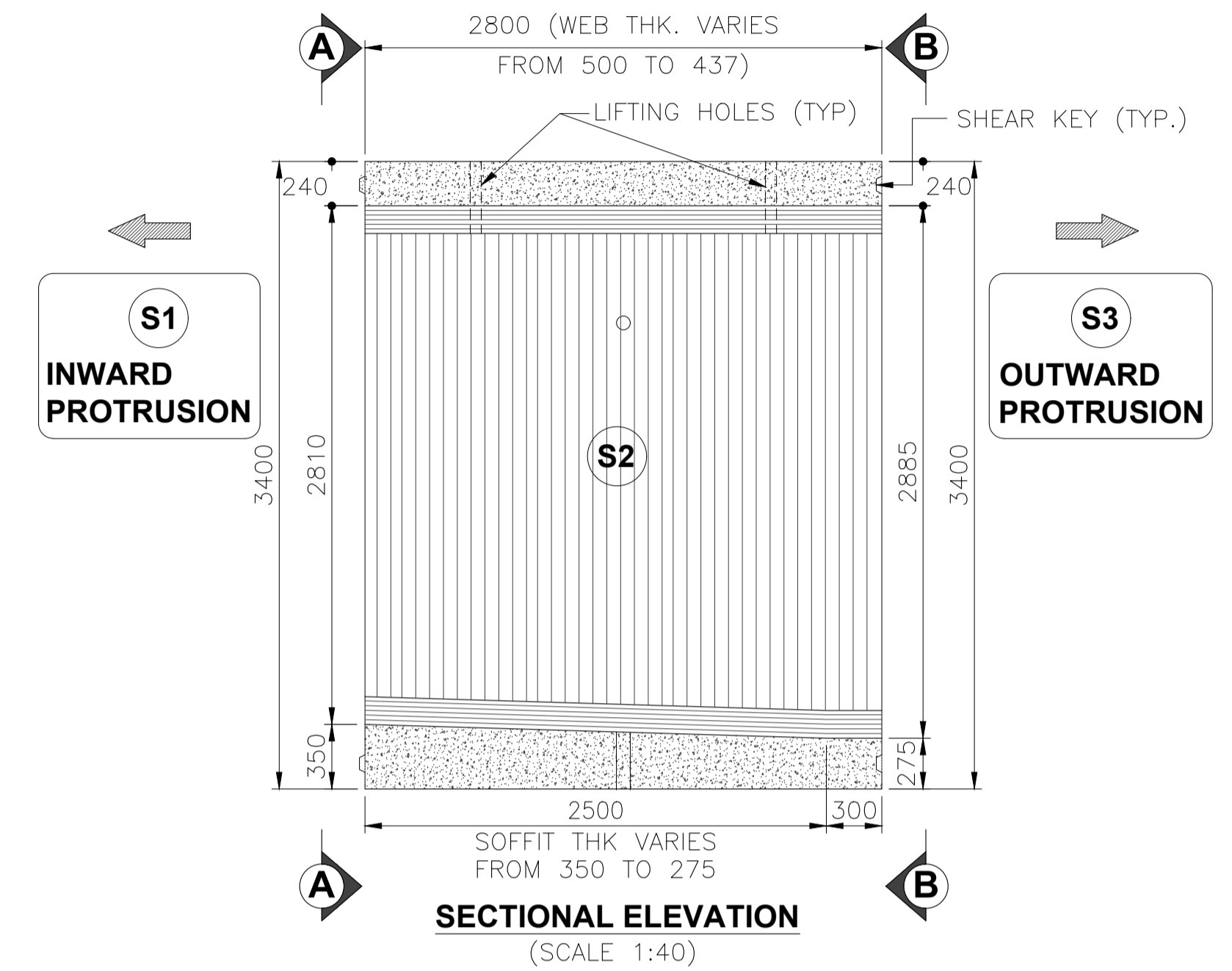
**SECTION C-C**  
(SCALE 1:40)

**NOTES:-**

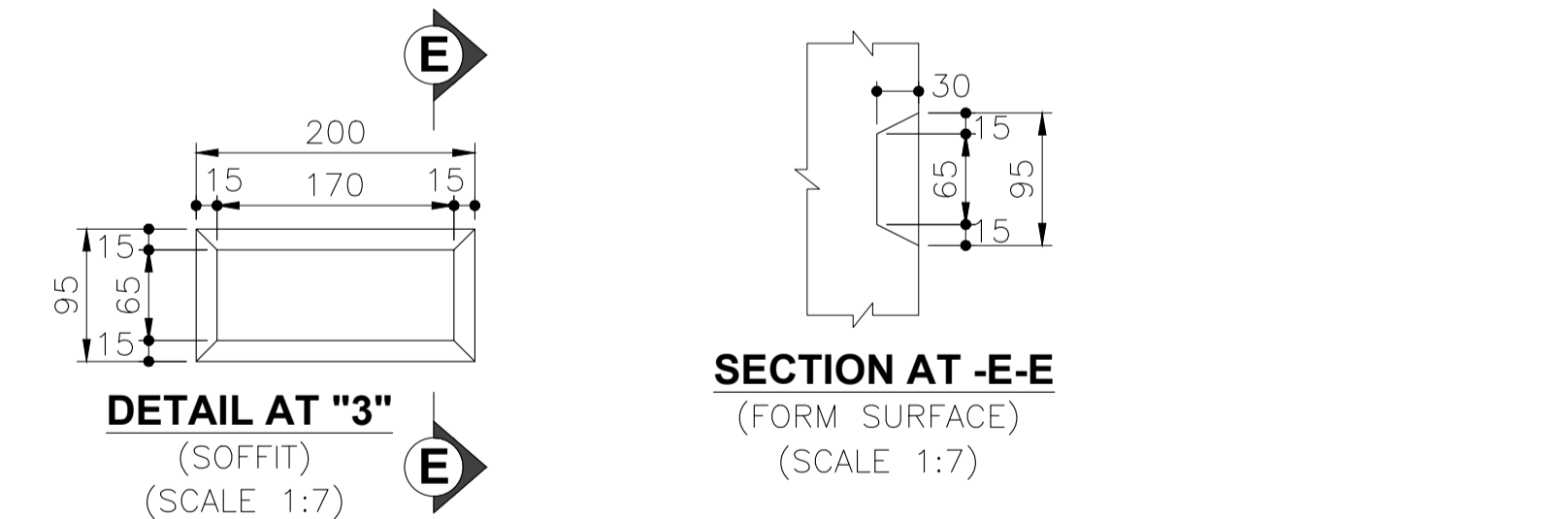
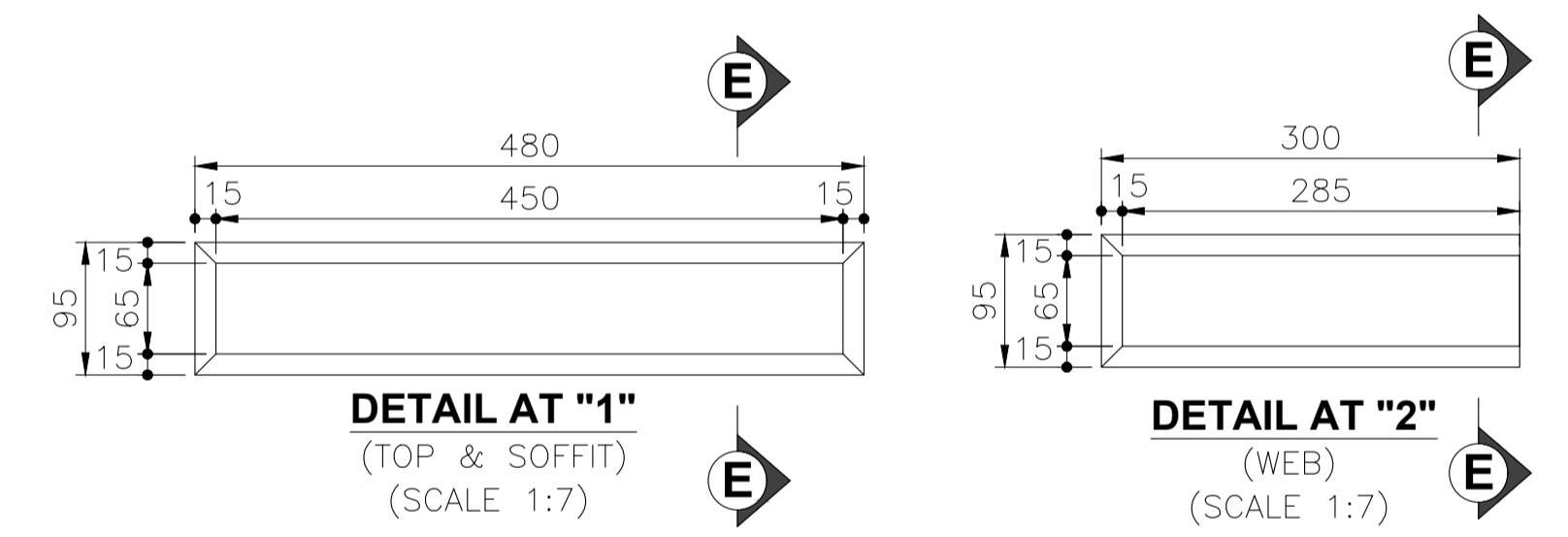
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2. SHEAR KEYS SHALL HAVE EXCESS RECESS EXTENDING UP TO APPROACHABLE CONCRETE SURFACE. IRC: SP: 65-2018.

**REFERENCE DRAWINGS:**

1. DIMENSION DETAILS OF SUPERSTRUCTURE - APCO-SAP-46+290-MJB-DWG-401

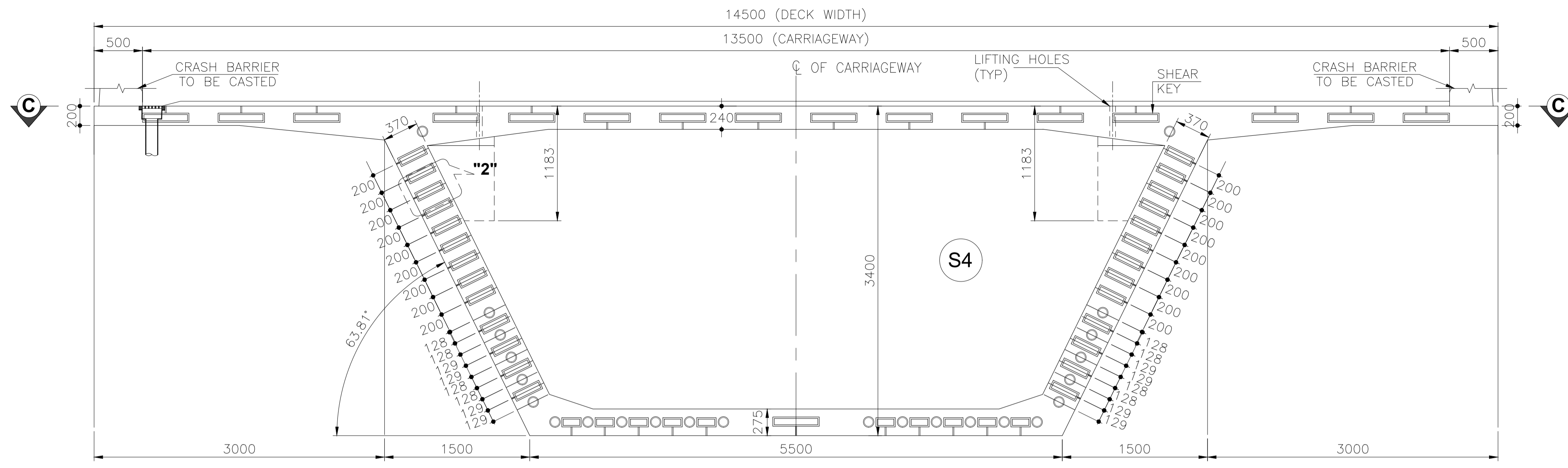


**SECTIONAL ELEVATION**  
(SCALE 1:40)

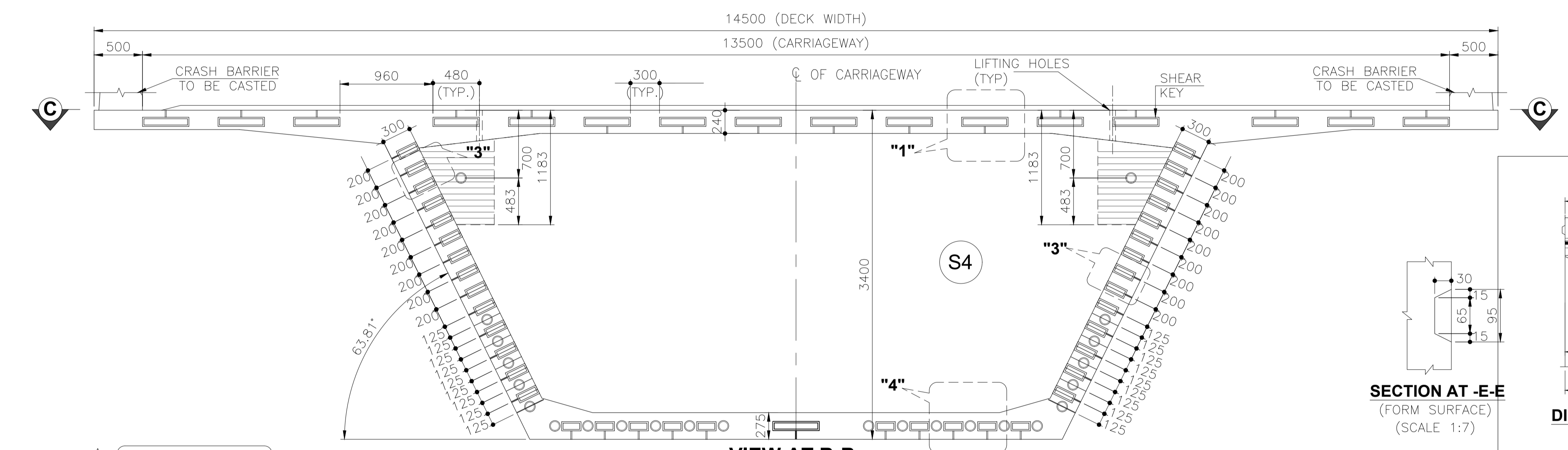


R3	AUG-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRA TECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101. 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA M/s LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHANSHYAM-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3 VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 316, 3rd FLOOR RG MALL, I.S.C, SECTOR-9, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Shamlu - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S.	<b>TITLE -</b> DIMENSION DETAILS OF PRECAST SEGMENT - S2 OF PSC SEGMENTAL SUPERSTRUCTURE FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290  DRAWING NO - APCO-SAP-46+290-MJB-DWG-403  SCALE - AS SHOWN SHEET - (02 OF 11) SHEET SIZE - A2
R2	JULY-2023	REVISED AS PER AE'S COMMENTS								DESIGNED	M.S.	
R1	MAY-2023	REVISED AS PER PCC COMMENTS								CHECKED	K.S.	
R0	MAR-2023	FIRST SUBMISSION								APPROVED	A.K.J.	
REV	DATE	DESCRIPTION OF REVISIONS										

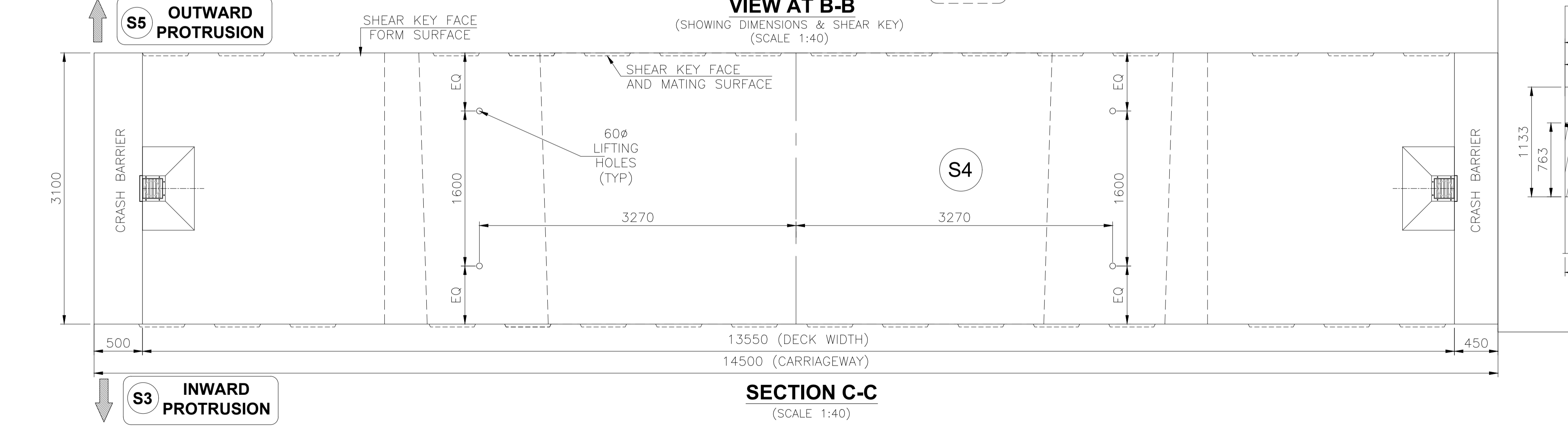




**VIEW AT A-A**  
(SHOWING DIMENSIONS)  
(SCALE 1:40)



**VIEW AT B-B**  
(SHOWING DIMENSIONS & SHEAR KEY)  
(SCALE 1:40)



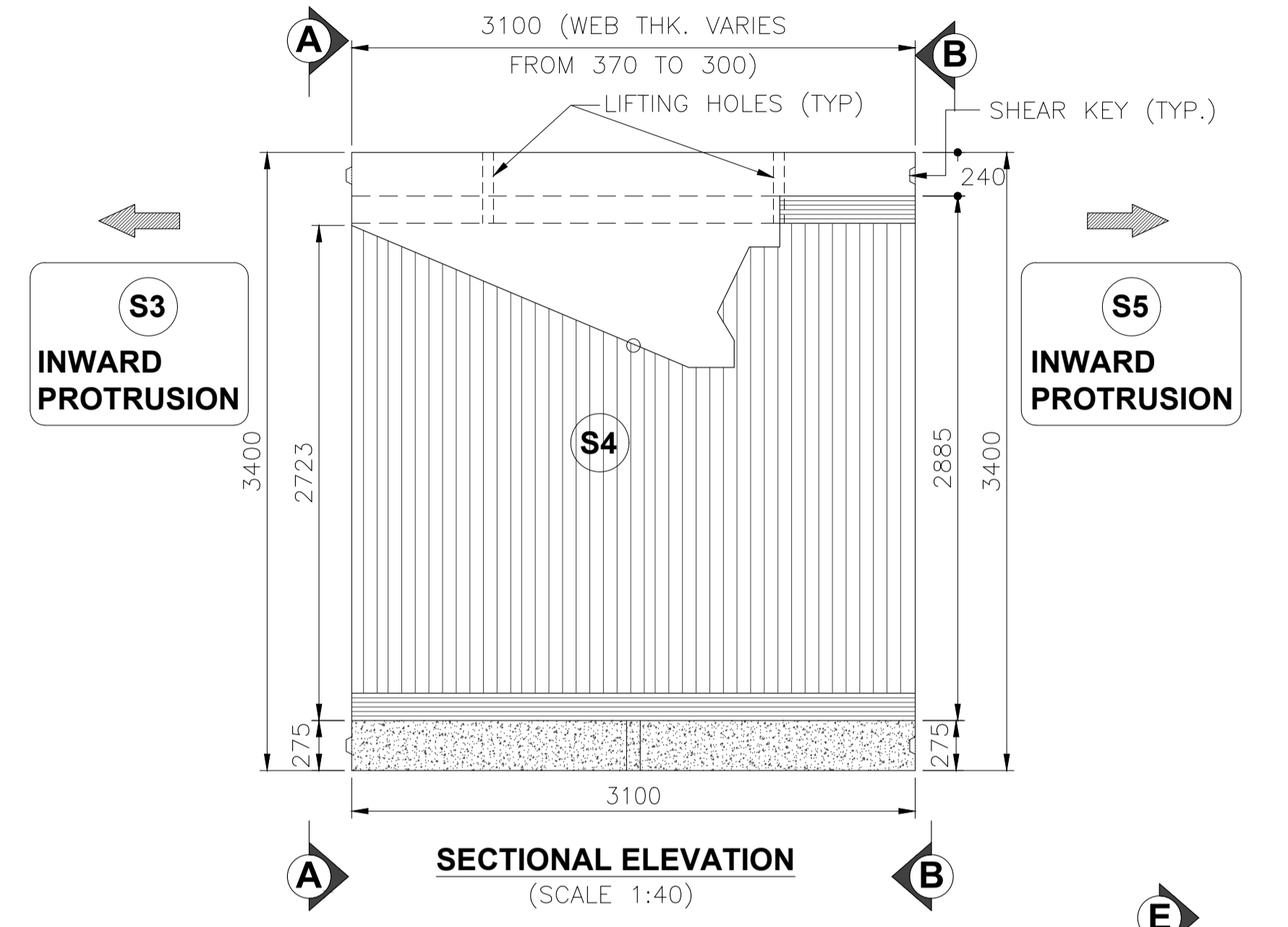
**SECTION C-C**  
(SCALE 1:40)

**NOTES:-**

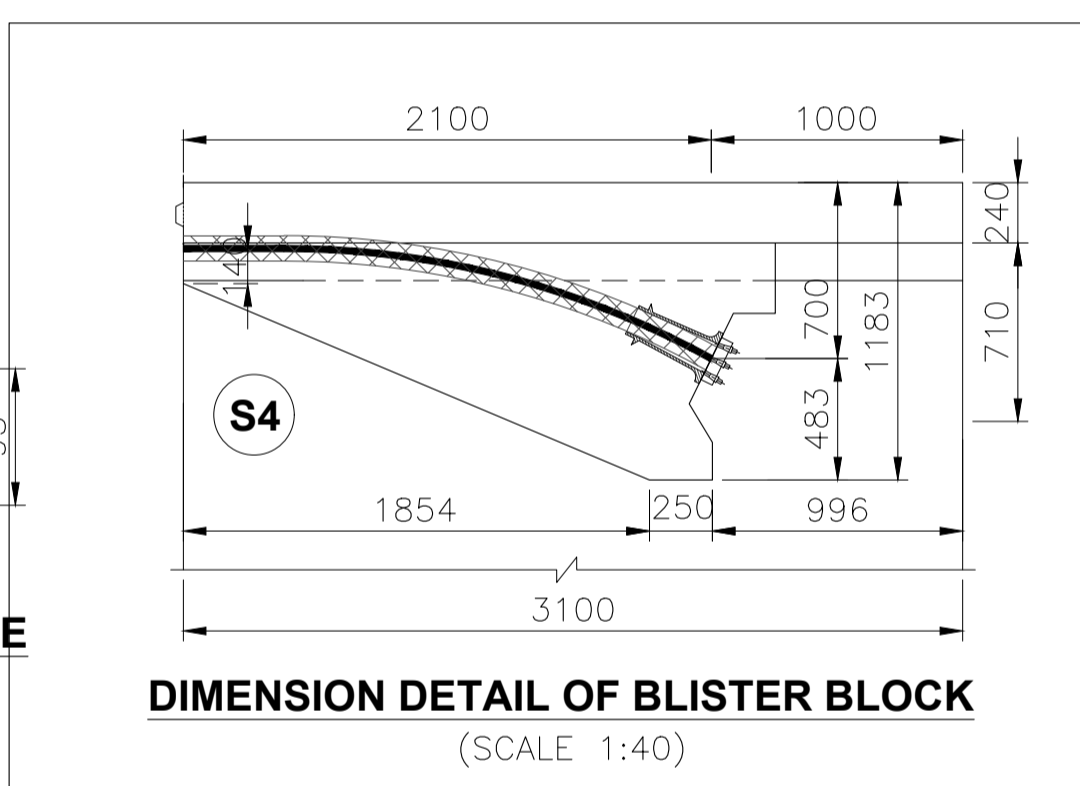
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- SHEAR KEYS SHALL HAVE EXCESS RECESS EXTENDING UPTO APPROACHABLE CONCRETE SURFACE. IRC: SP: 65-2018.

**REFERENCE DRAWINGS:**

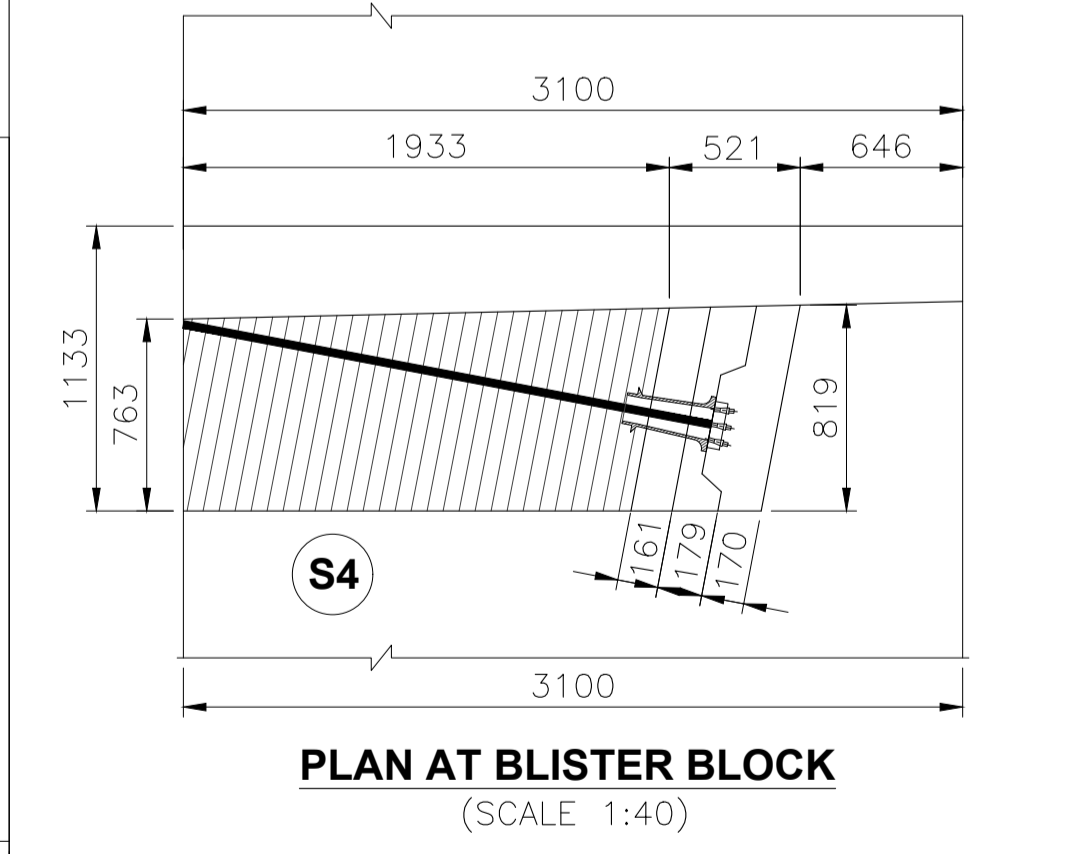
- DIMENSION DETAILS OF SUPERSTRUCTURE - APCO-SAP-46+290-MJB-DWG-401



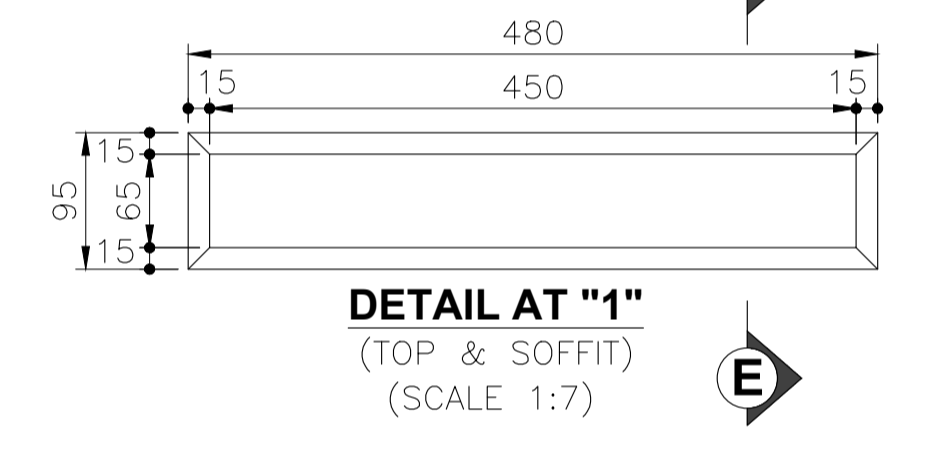
**SECTIONAL ELEVATION**  
(SCALE 1:40)



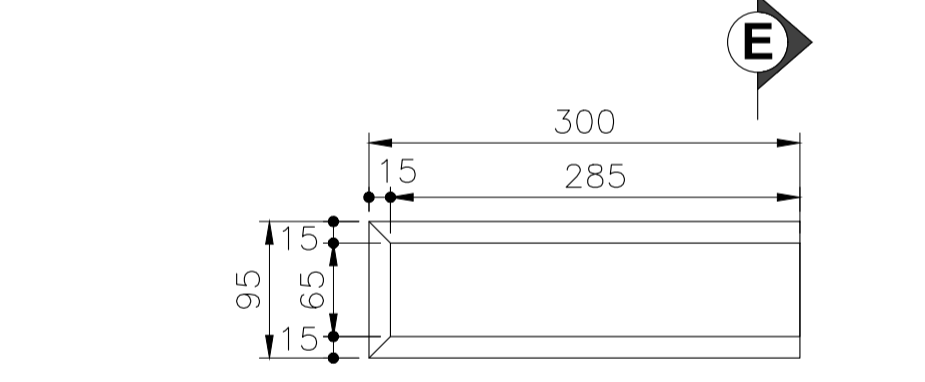
**DIMENSION DETAIL OF BLISTER BLOCK**  
(SCALE 1:40)



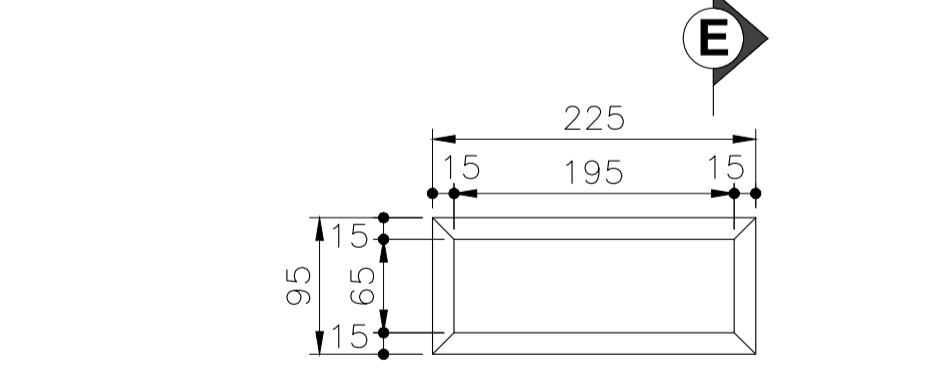
**PLAN AT BLISTER BLOCK**  
(SCALE 1:40)



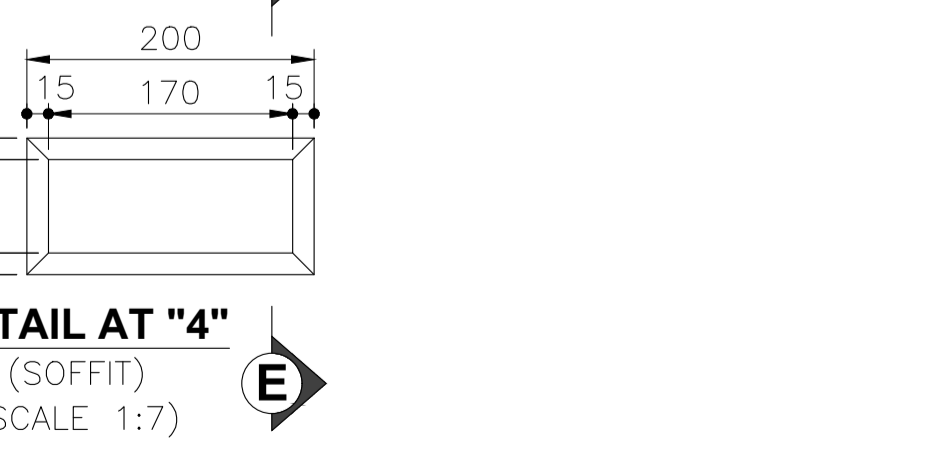
**DETAIL AT "1"**  
(TOP & SOFFIT)  
(SCALE 1:7)



**DETAIL AT "2"**  
(WEB)  
(SCALE 1:7)



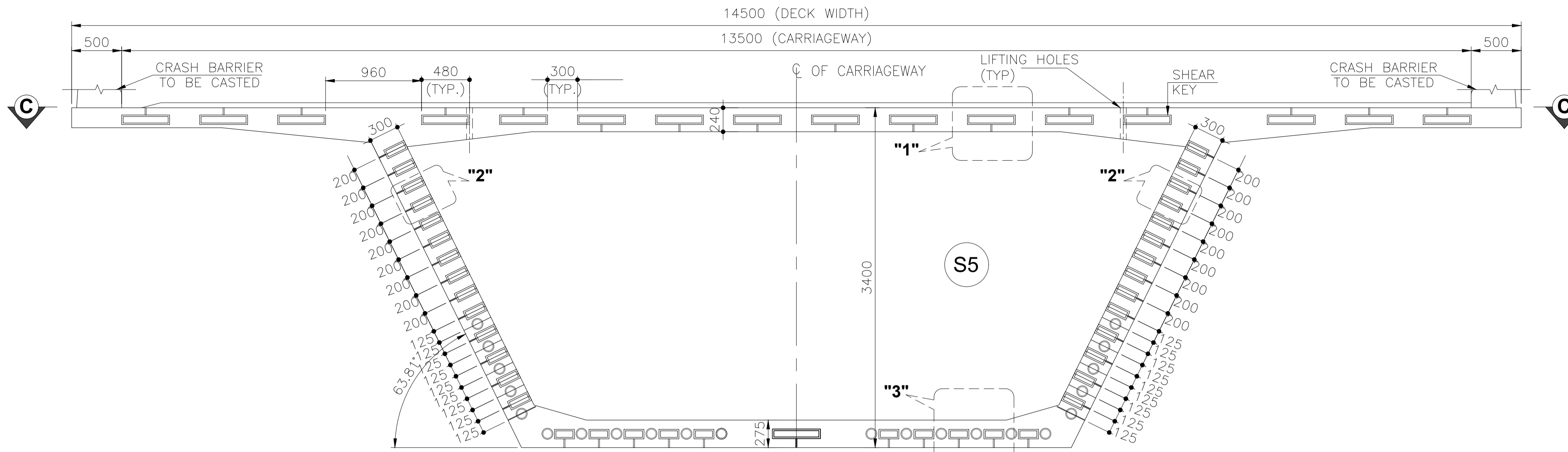
**DETAIL AT "3"**  
(SOFFIT)  
(SCALE 1:7)



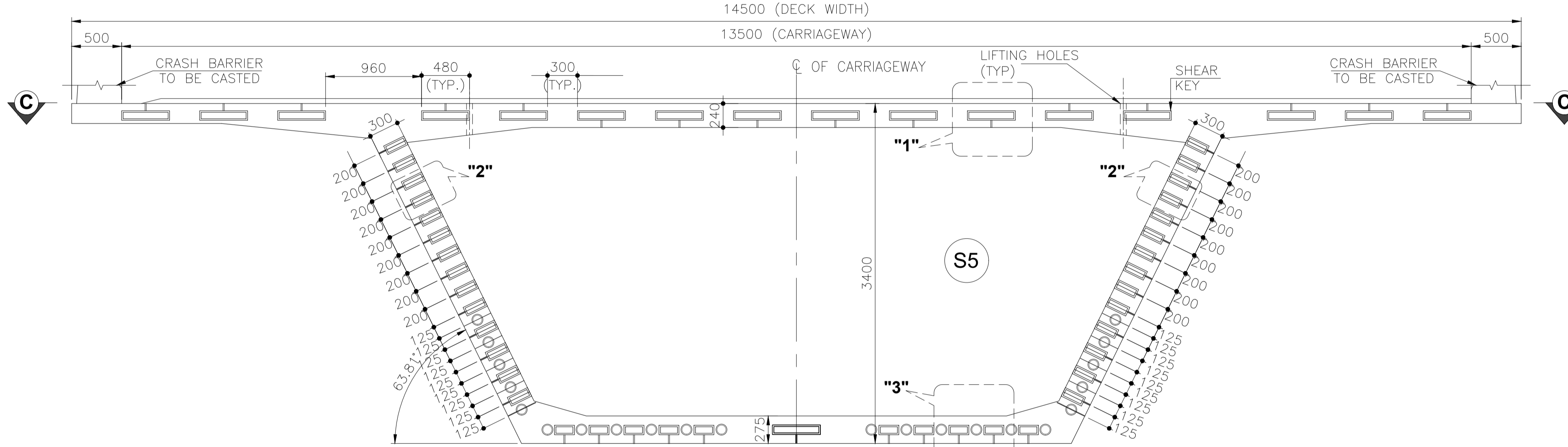
**DETAIL AT "4"**  
(SOFFIT)  
(SCALE 1:7)



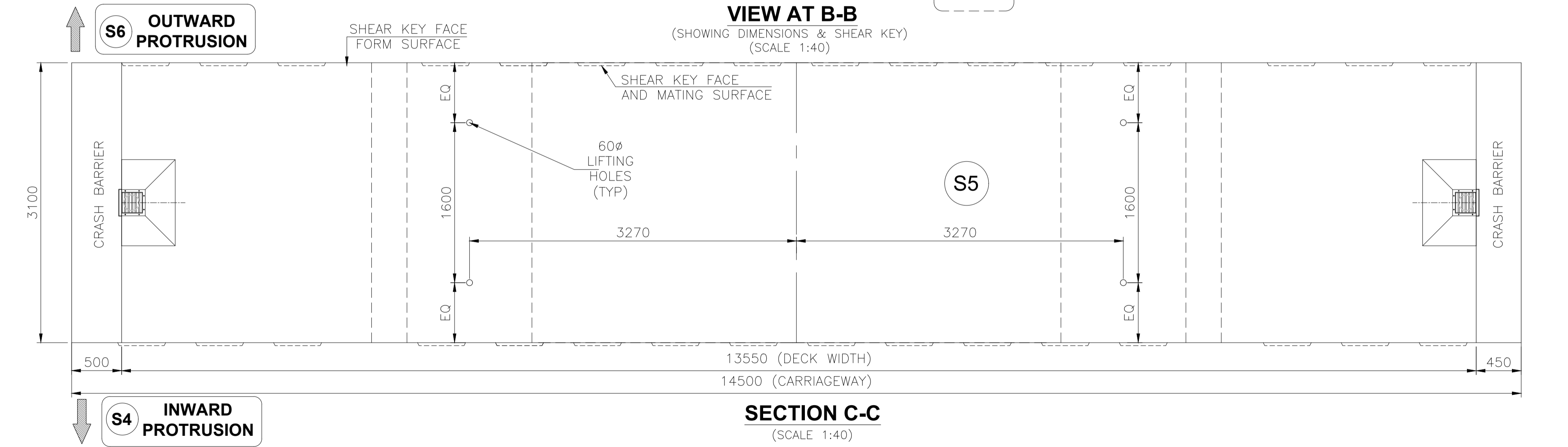
R3	AUG.-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRA TECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101. 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA M/s LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHAJIABAD-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3, VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 316, 3rd FLOOR RG MALL, I.S.C. SECTOR-9, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Shami - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S.	<b>TITLE -</b> DIMENSION DETAILS OF PRECAST SEGMENT - S4 OF PSC SEGMENTAL SUPERSTRUCTURE FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290  <b>DRAWING NO -</b> APCO-SAP-46+290-MJB-DWG-403  <b>SCALE -</b> AS SHOWN <b>SHEET -</b> (04 OF 11) <b>SHEET SIZE -</b> A2
R2	JULY-2023	REVISED AS PER AE'S COMMENTS										
R1	MAY-2023	REVISED AS PER PCC COMMENTS										
R0	MAR-2023	FIRST SUBMISSION										
REV	DATE	DESCRIPTION OF REVISIONS										



**VIEW AT A-A**  
(SHOWING DIMENSIONS)  
(SCALE 1:40)



**VIEW AT B-B**  
(SHOWING DIMENSIONS & SHEAR KEY)  
(SCALE 1:40)

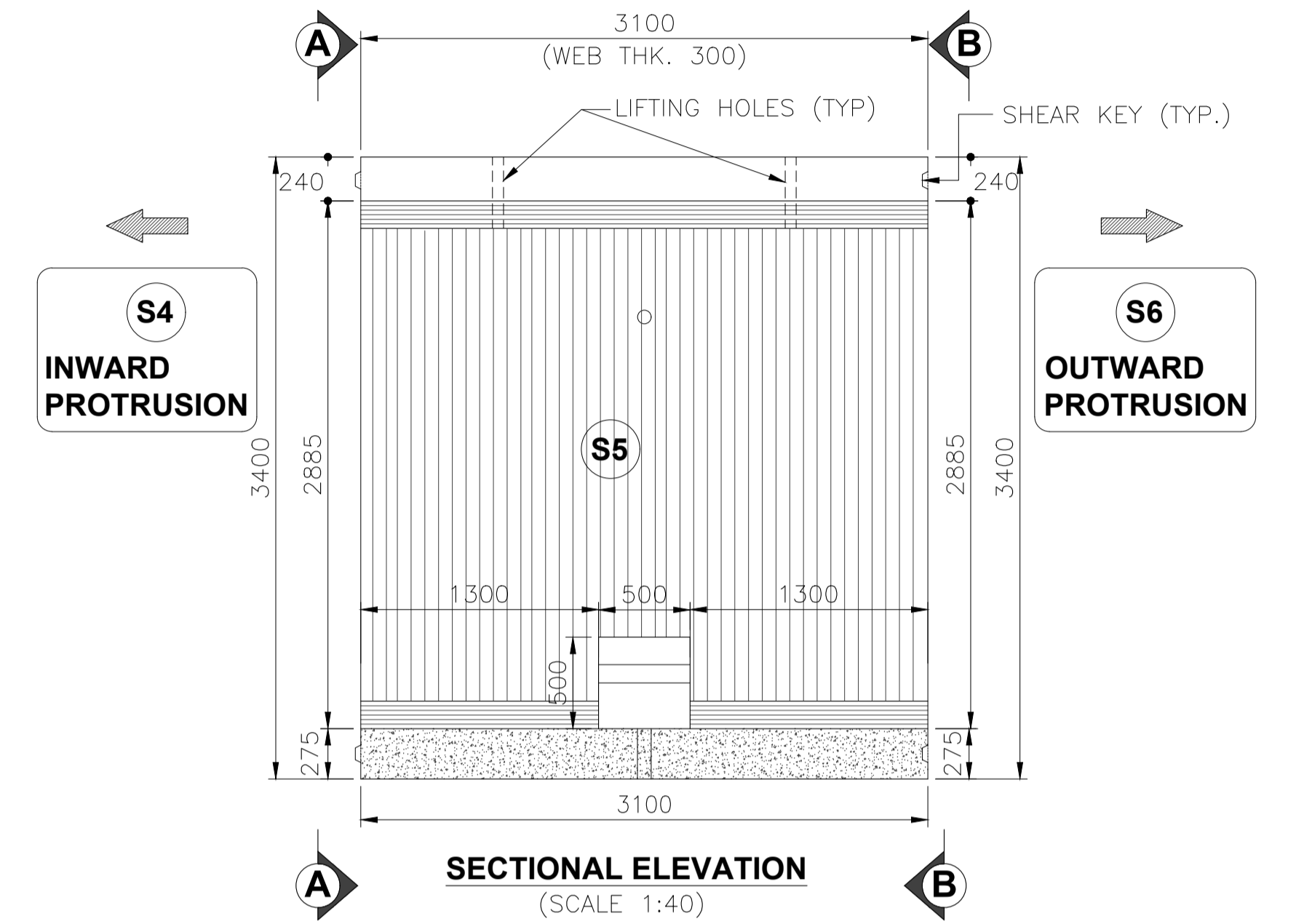


**SECTION C-C**  
(SCALE 1:40)

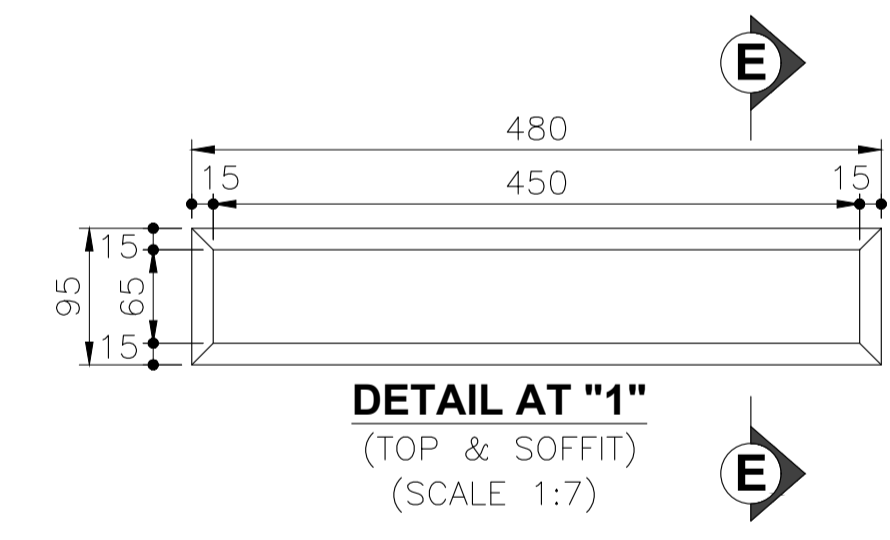
- NOTES:-**
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  - SHEAR KEYS SHALL HAVE EXCESS RECESS EXTENDING UPTO APPROACHABLE CONCRETE SURFACE.IRC: SP: 65-2018.

**REFERENCE DRAWINGS:**

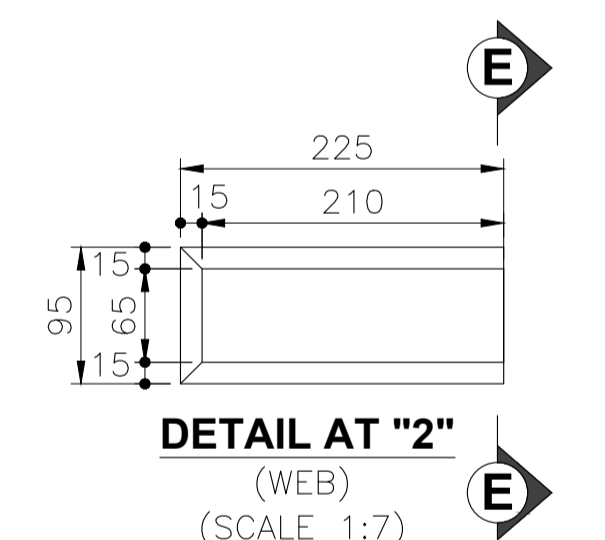
- DIMENSION DETAILS OF SUPERSTRUCTURE - APCO-SAP-46+290-MJB-DWG-401



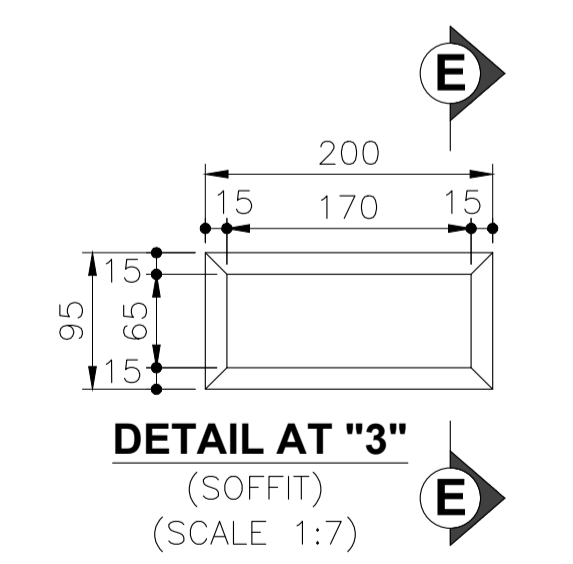
**SECTIONAL ELEVATION**  
(SCALE 1:40)



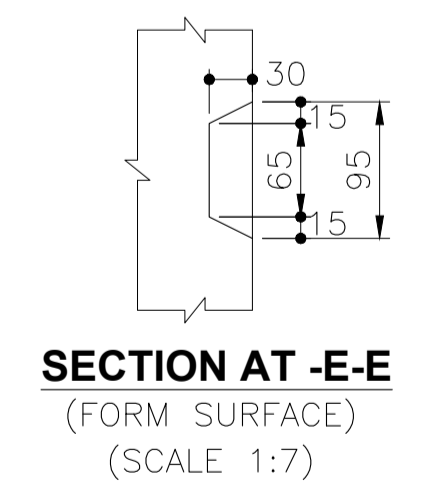
**DETAIL AT "1"**  
(TOP & SOFFIT)  
(SCALE 1:7)



**DETAIL AT "2"**  
(WEB)  
(SCALE 1:7)



**DETAIL AT "3"**  
(SOFFIT)  
(SCALE 1:7)

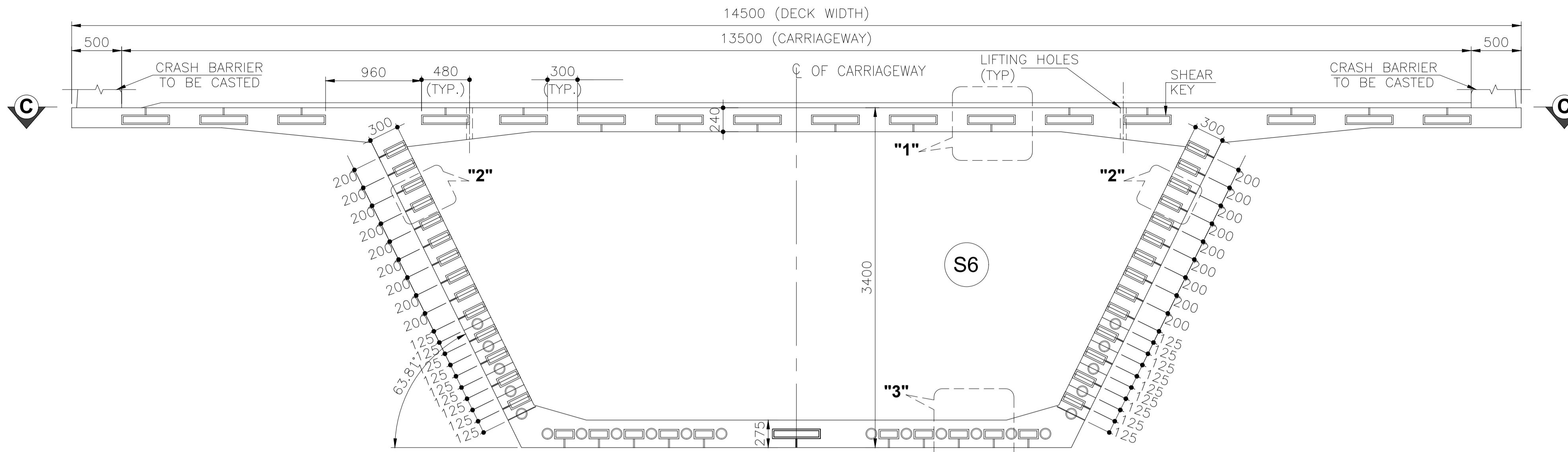


**SECTION AT -E-E**  
(FORM SURFACE)  
(SCALE 1:7)

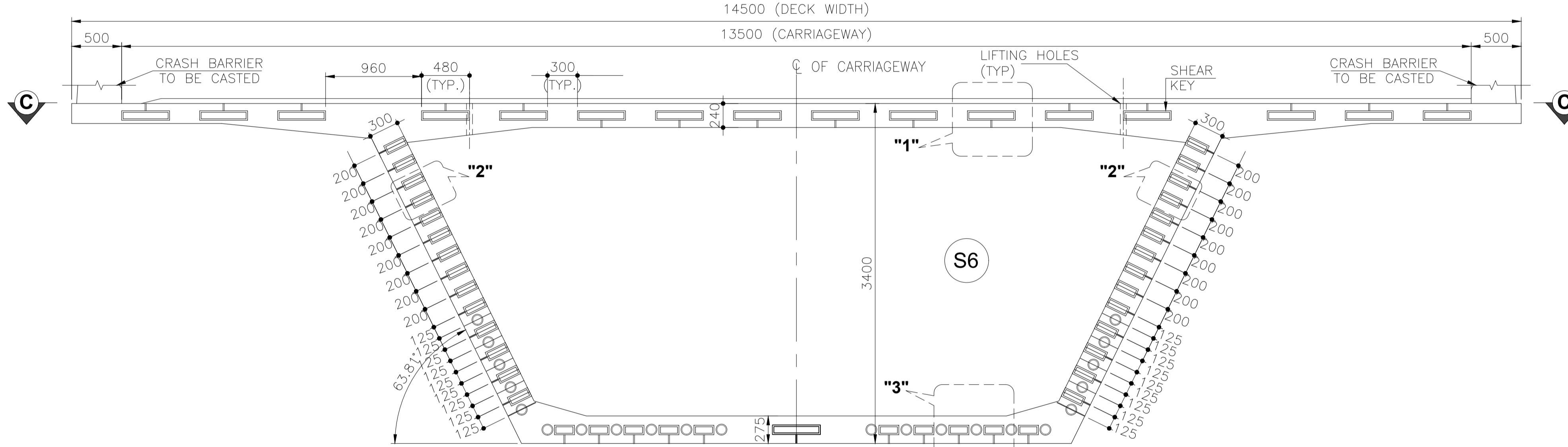


R3	AUG.-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRA TECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA M/s LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHAJIABAD-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3, VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 316, 3rd FLOOR RG MALL, I.S.C, SECTOR-9, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Shamlu - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S.	<b>TITLE -</b> DIMENSION DETAILS OF PRECAST SEGMENT - S5 OF PSC SEGMENTAL SUPERSTRUCTURE FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290
R2	JULY-2023	REVISED AS PER AE'S COMMENTS								DESIGNED	M.S.	
R1	MAY-2023	REVISED AS PER PCC COMMENTS								CHECKED	K.S.	
R0	MAR-2023	FIRST SUBMISSION								APPROVED	A.K.J.	
REV	DATE	DESCRIPTION OF REVISIONS										

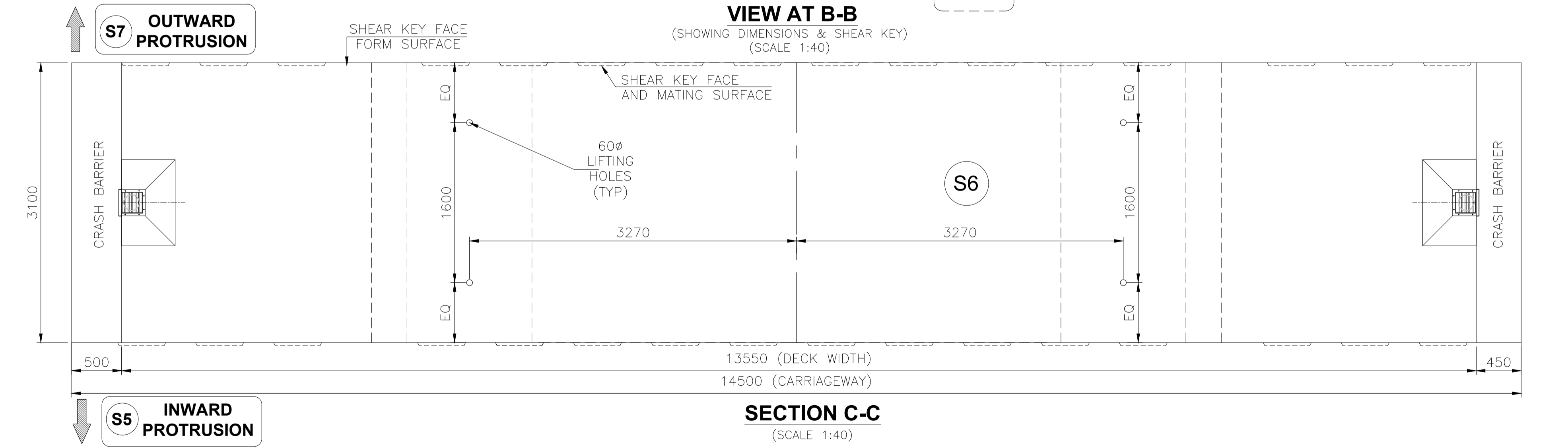
DRAWING NO -	APCO-SAP-46+290-MJB-DWG-403
SCALE - AS SHOWN	SHEET - (05 OF 11)
SHEET SIZE -	A2



**VIEW AT A-A**  
(SHOWING DIMENSIONS)  
(SCALE 1:40)



**VIEW AT B-B**  
(SHOWING DIMENSIONS & SHEAR KEY)  
(SCALE 1:40)

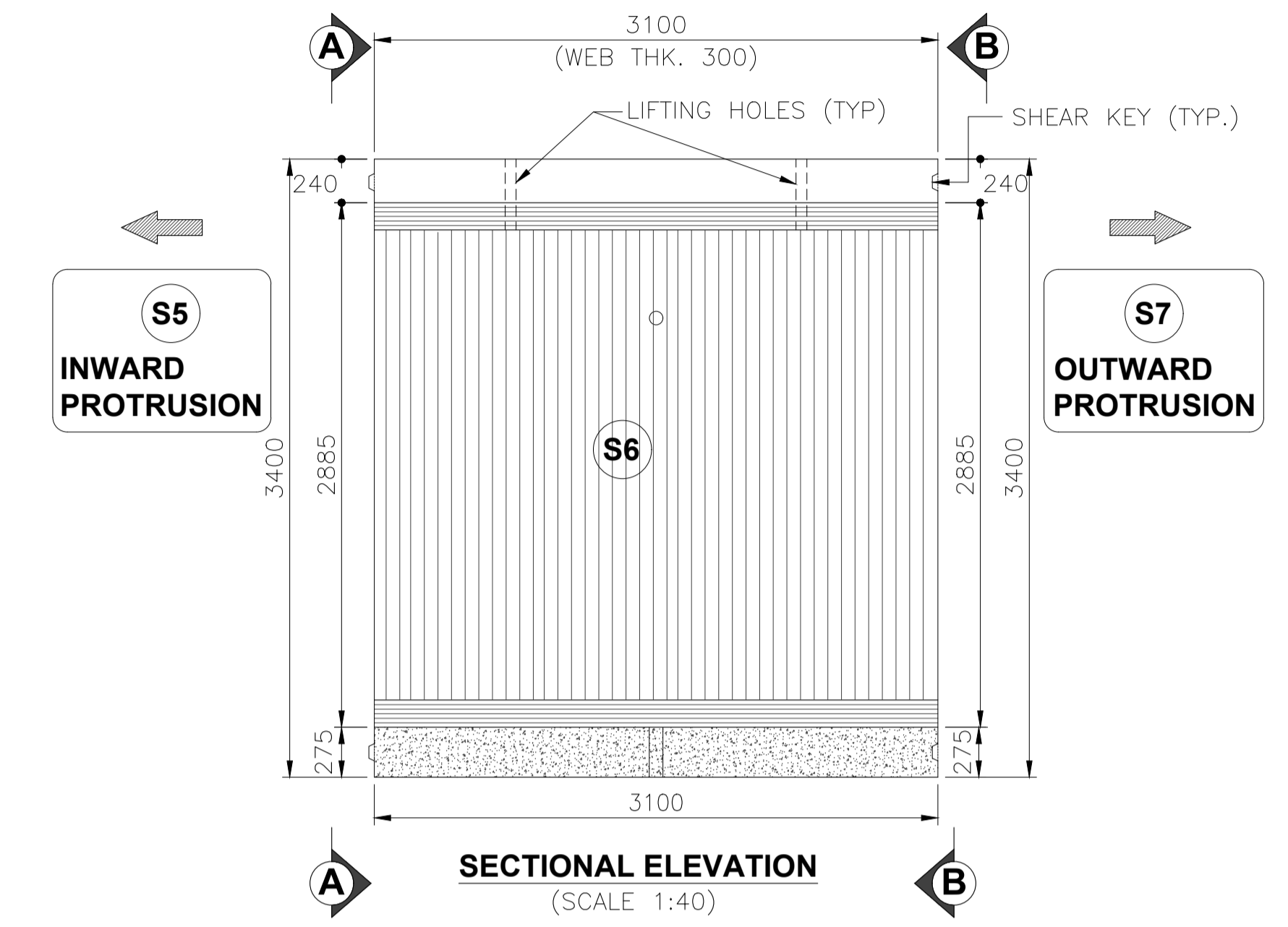


**SECTION C-C**  
(SCALE 1:40)

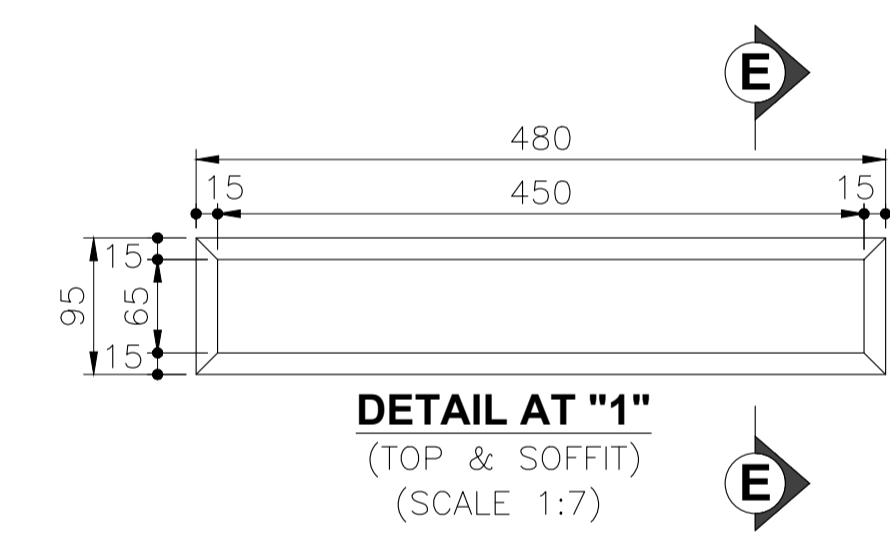
- NOTES:-**
- ALL DIMENSIONS ARE IN mm, LEVELS ARE IN m AND CHAINAGES ARE IN Km, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
  - SHEAR KEYS SHALL HAVE EXCESS RECESS EXTENDING UPTO APPROACHABLE CONCRETE SURFACE. IRC: SP: 65-2018.

**REFERENCE DRAWINGS:**

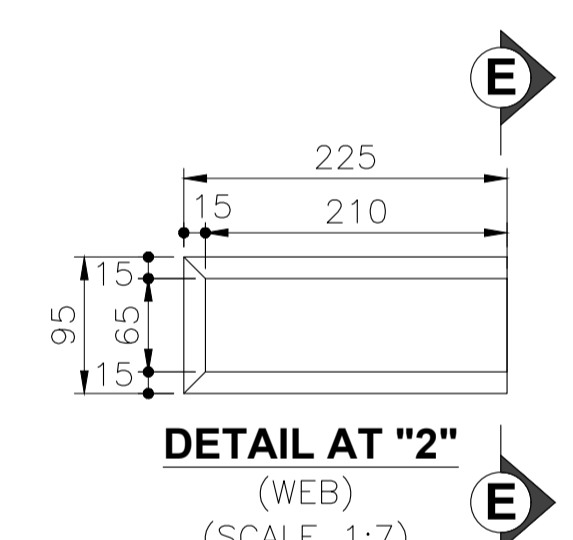
- DIMENSION DETAILS OF SUPERSTRUCTURE - APCO-SAP-46+290-MJB-DWG-401



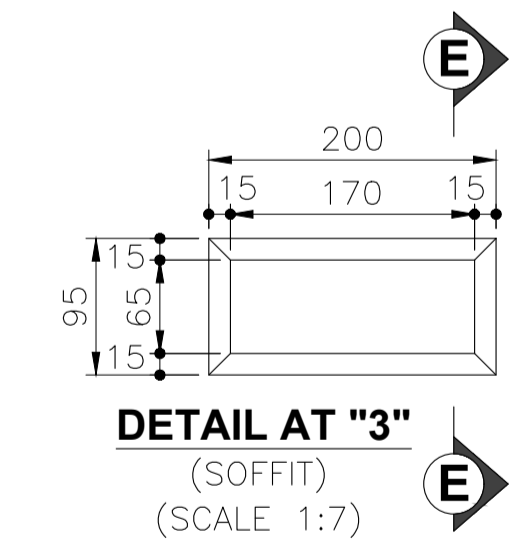
**SECTIONAL ELEVATION**  
(SCALE 1:40)



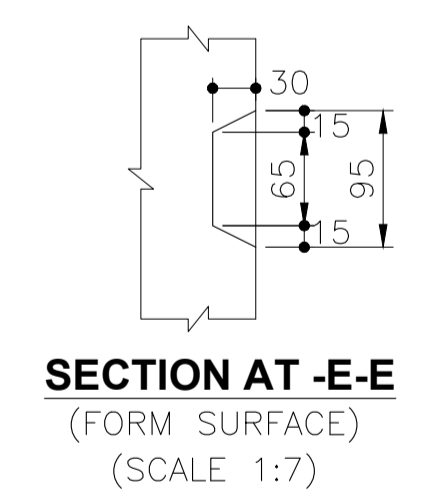
**DETAIL AT "1"**  
(TOP & SOFFIT)  
(SCALE 1:7)



**DETAIL AT "2"**  
(WEB)  
(SCALE 1:7)



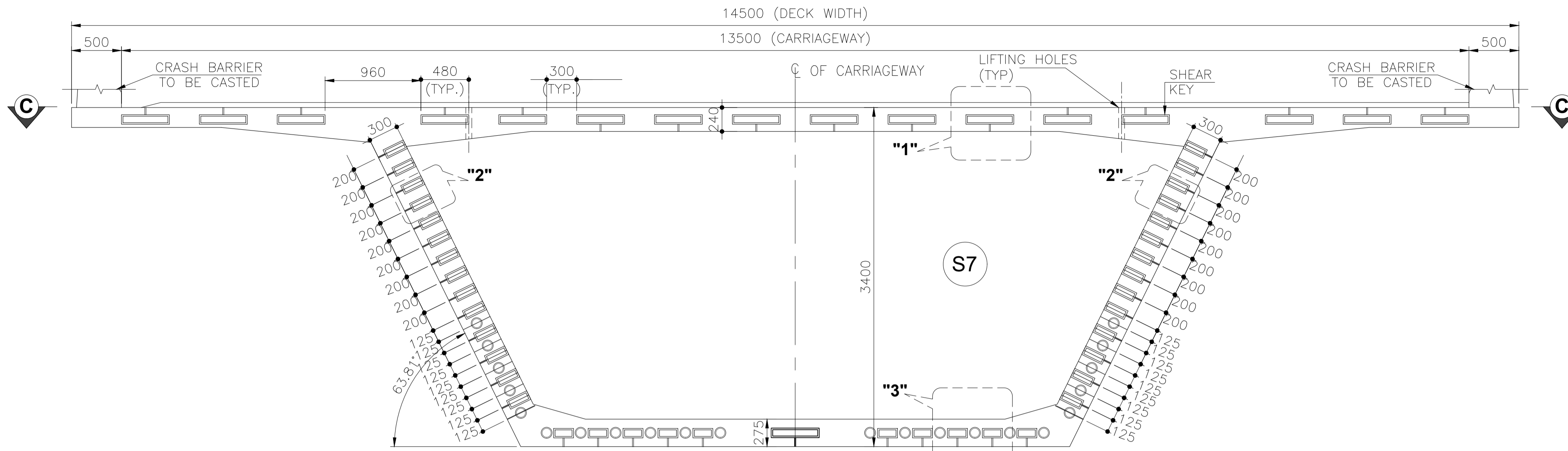
**DETAIL AT "3"**  
(SOFFIT)  
(SCALE 1:7)



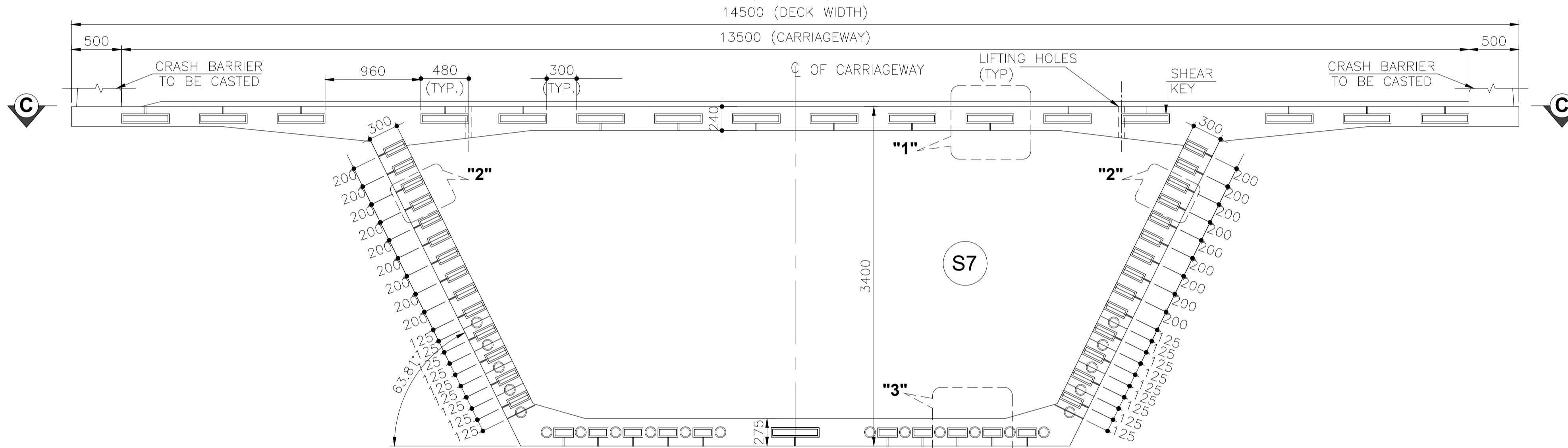
**SECTION AT E-E**  
(FORM SURFACE)  
(SCALE 1:7)



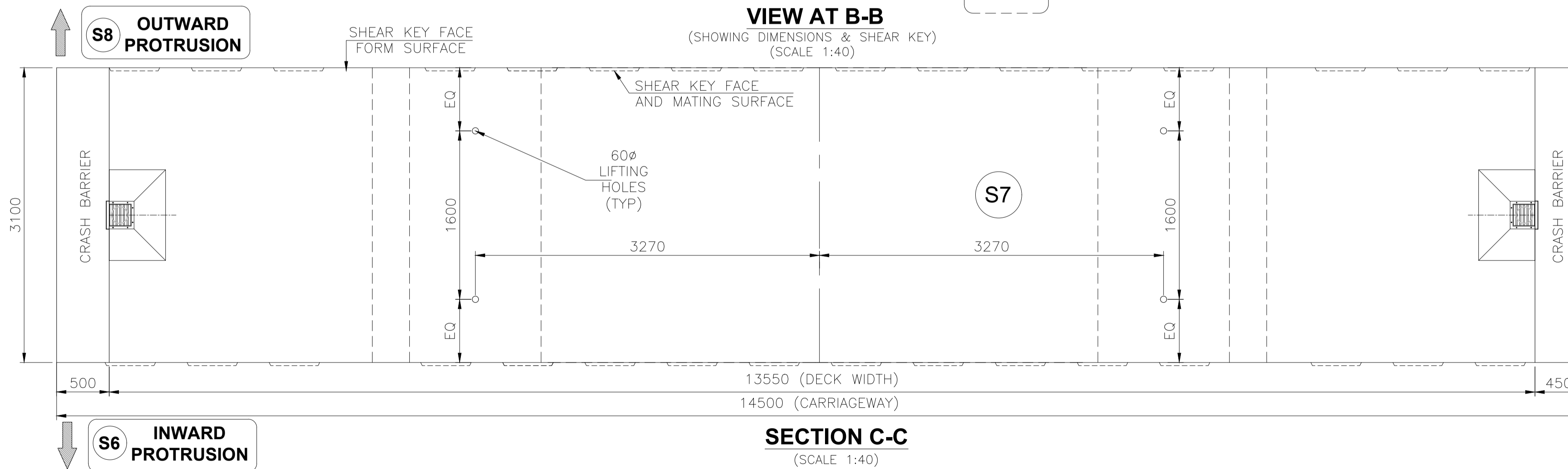
R3	AUG.-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRA TECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA M/s LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHAZIABAD-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3, VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 316, 3rd FLOOR RG MALL, I.S.C, SECTOR-9, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Sharnli - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S	<b>TITLE -</b> DIMENSION DETAILS OF PRECAST SEGMENT - S6 OF PSC SEGMENTAL SUPERSTRUCTURE FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290
R2	JULY-2023	REVISED AS PER AE'S COMMENTS								DESIGNED	M.S	
R1	MAY-2023	REVISED AS PER PCC COMMENTS								CHECKED	K.S	
R0	MAR-2023	FIRST SUBMISSION								APPROVED	A.K.J	
REV	DATE	DESCRIPTION OF REVISIONS										



**VIEW AT A-A**  
(SHOWING DIMENSIONS)  
(SCALE 1:40)



**VIEW AT B-B**  
(SHOWING DIMENSIONS & SHEAR KEY)  
(SCALE 1:40)



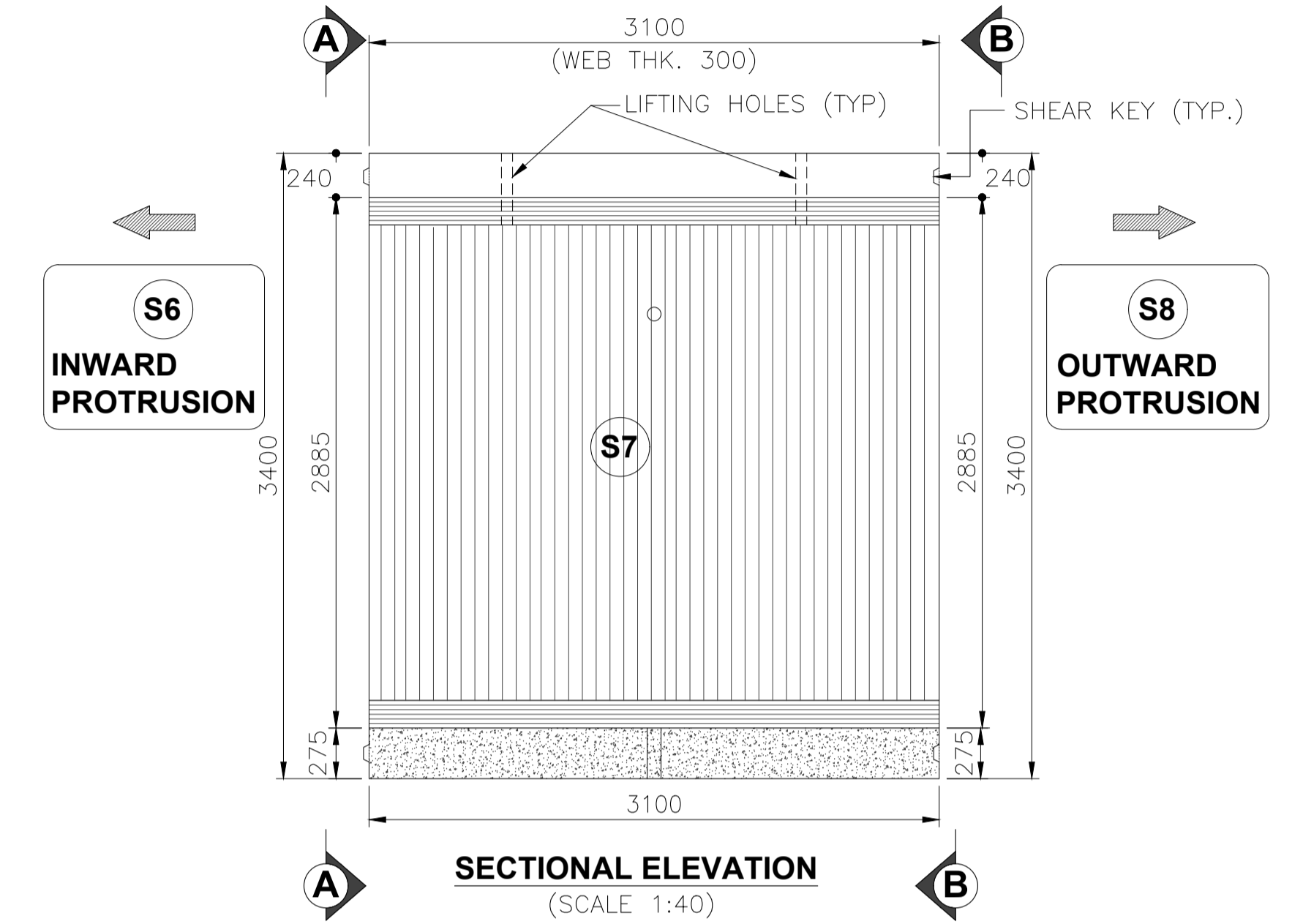
**SECTION C-C**  
(SCALE 1:40)

**NOTES:-**

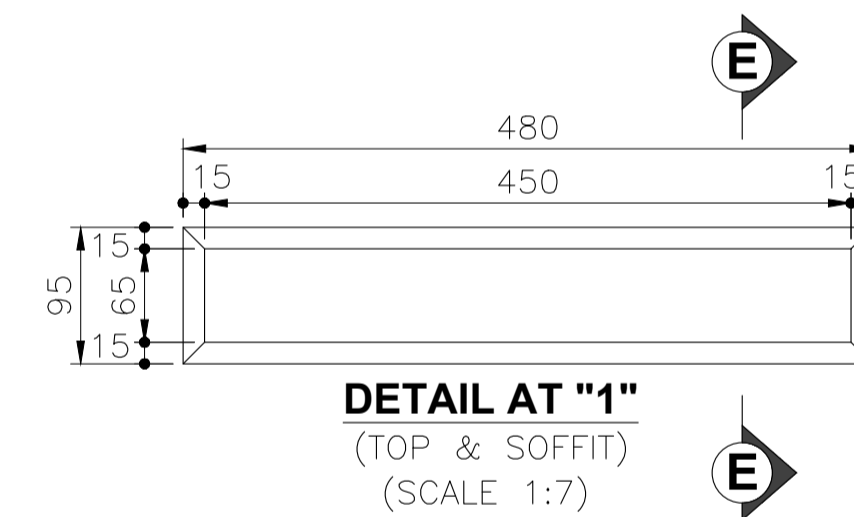
- ALL DIMENSIONS ARE IN mm, LEVELS ARE IN m AND CHAINAGES ARE IN Km, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
- SHEAR KEYS SHALL HAVE EXCESS RECESS EXTENDING UPTO APPROACHABLE CONCRETE SURFACE. IRC: SP: 65-2018.

**REFERENCE DRAWINGS:**

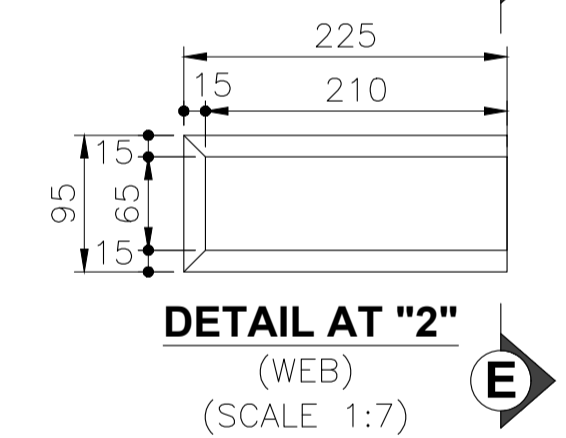
- DIMENSION DETAILS OF SUPERSTRUCTURE - APCO-SAP-46+290-MJB-DWG-401



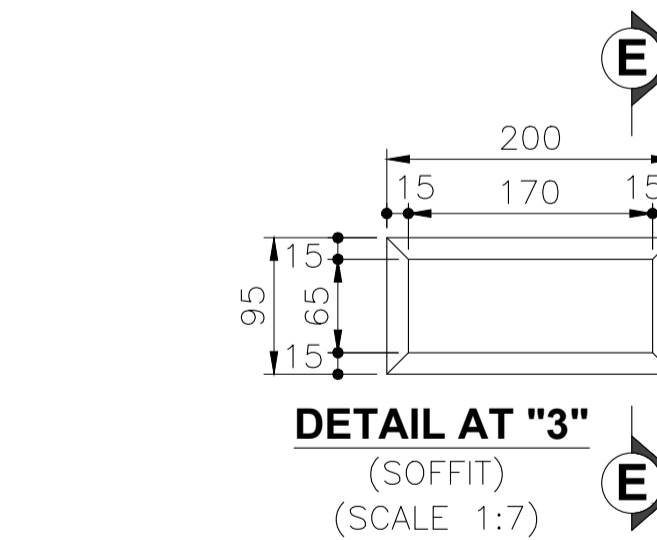
**SECTIONAL ELEVATION**  
(SCALE 1:40)



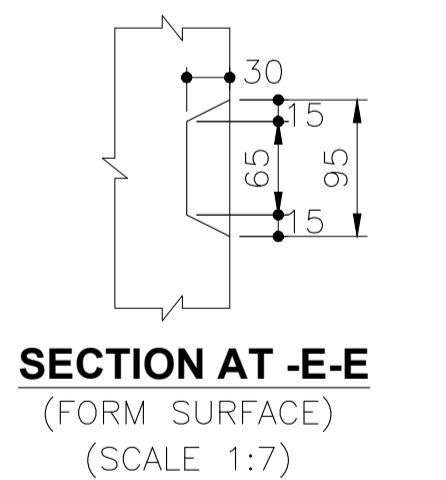
**DETAIL AT "1"**  
(TOP & SOFFIT)  
(SCALE 1:7)



**DETAIL AT "2"**  
(WEB)  
(SCALE 1:7)



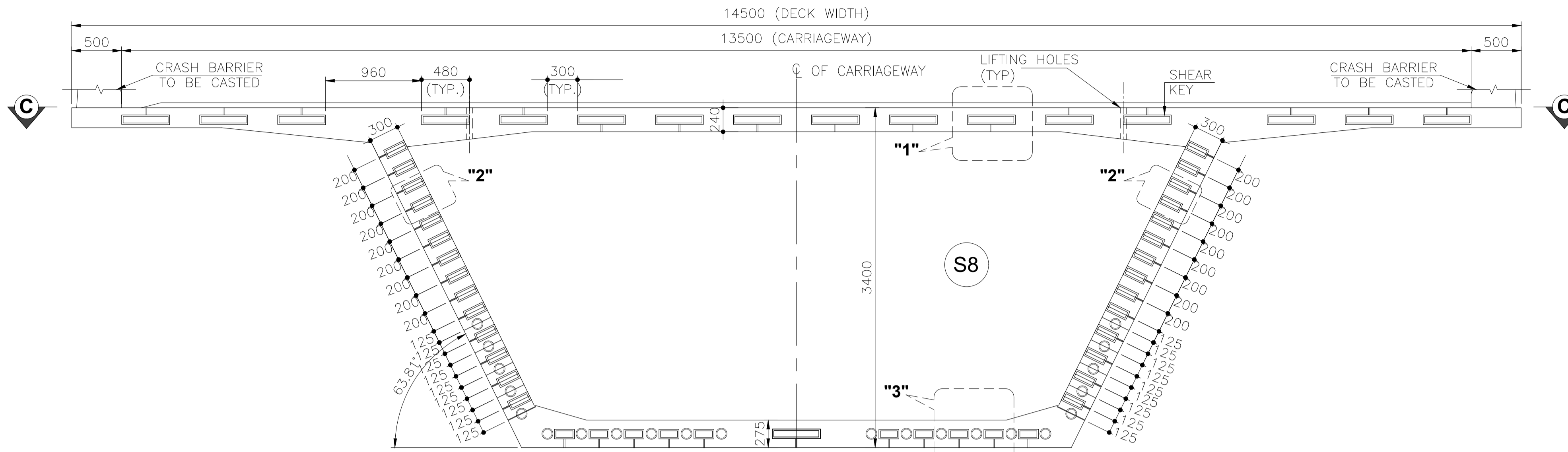
**DETAIL AT "3"**  
(SOFFIT)  
(SCALE 1:7)



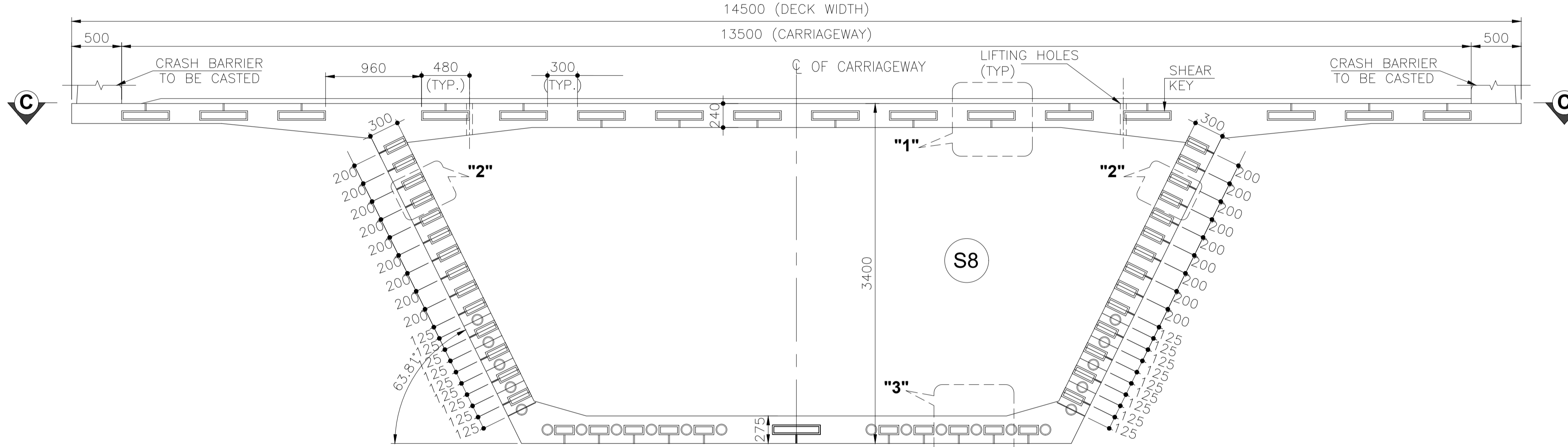
**SECTION AT -E-E**  
(FORM SURFACE)  
(SCALE 1:7)



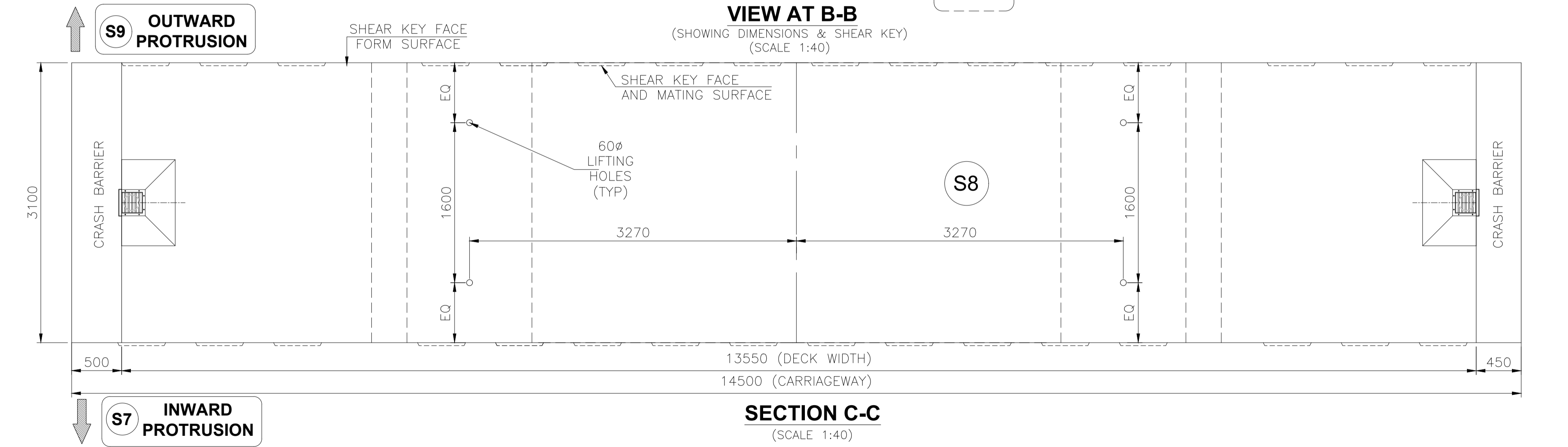
R3	AUG-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRA TECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA M/s LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHAZIABAD-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3, VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 316, 3rd FLOOR RG MALL, I.S.C, SECTOR-9, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Shamlu - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S	<b>TITLE -</b> DIMENSION DETAILS OF PRECAST SEGMENT - S7 OF PSC SEGMENTAL SUPERSTRUCTURE FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290  DRAWING NO - APCO-SAP-46+290-MJB-DWG-403  SCALE - AS SHOWN SHEET - (07 OF 11) SHEET SIZE - A2
R2	JULY-2023	REVISED AS PER AE'S COMMENTS										
R1	MAY-2023	REVISED AS PER PCC COMMENTS										
R0	MAR-2023	FIRST SUBMISSION										
REV	DATE	DESCRIPTION OF REVISIONS										



**VIEW AT A-A**  
(SHOWING DIMENSIONS)  
(SCALE 1:40)



**VIEW AT B-B**  
(SHOWING DIMENSIONS & SHEAR KEY)  
(SCALE 1:40)

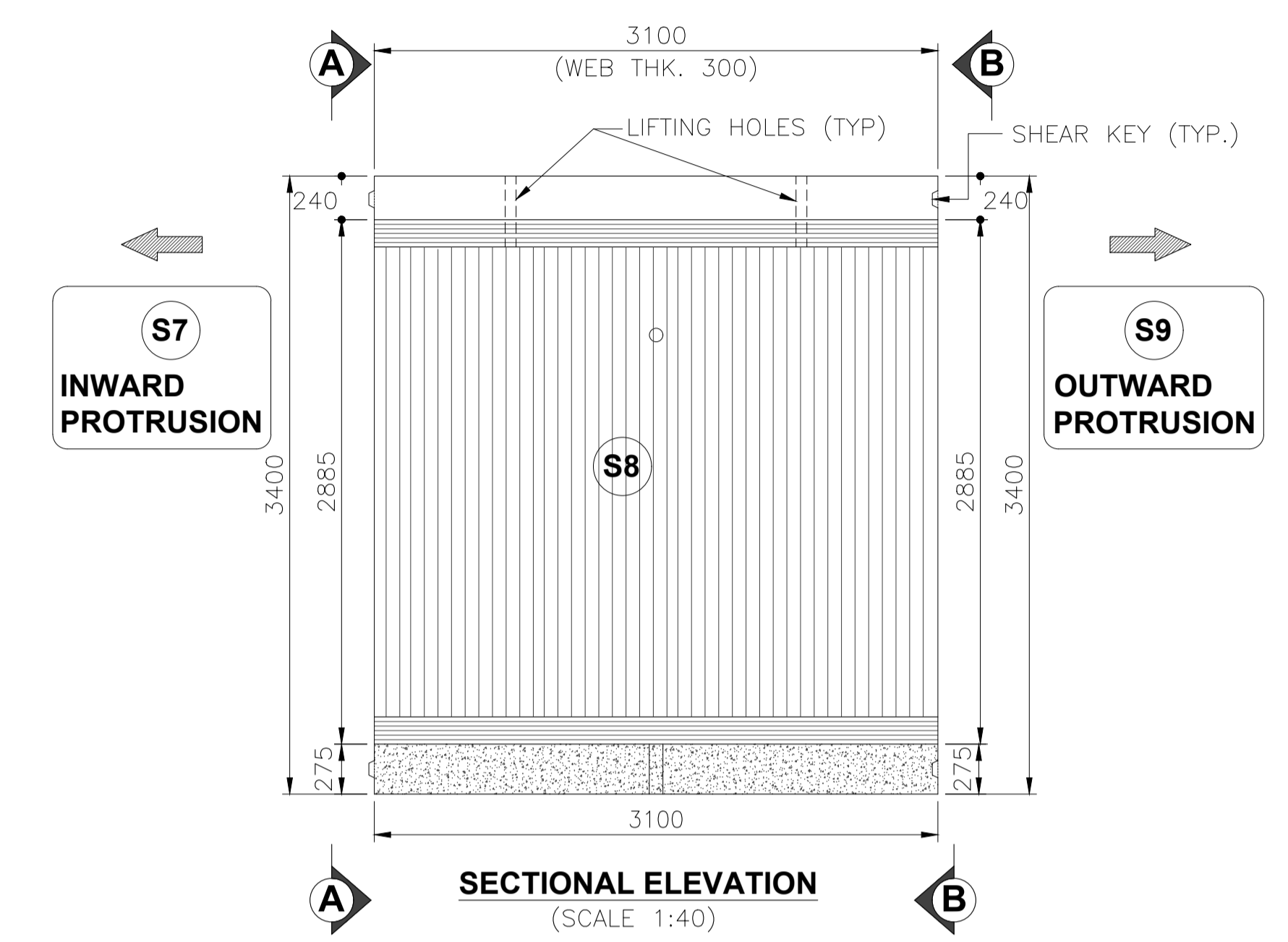


**SECTION C-C**  
(SCALE 1:40)

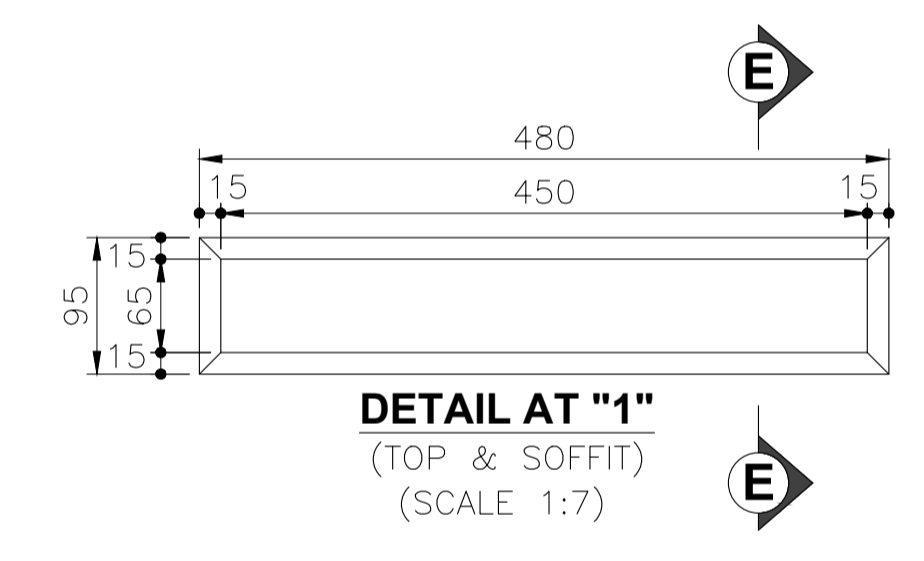
- NOTES:-**
- ALL DIMENSIONS ARE IN mm, LEVELS ARE IN m AND CHAINAGES ARE IN Km, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
  - SHEAR KEYS SHALL HAVE EXCESS RECESS EXTENDING UPTO APPROACHABLE CONCRETE SURFACE. IRC: SP: 65-2018.

**REFERENCE DRAWINGS:**

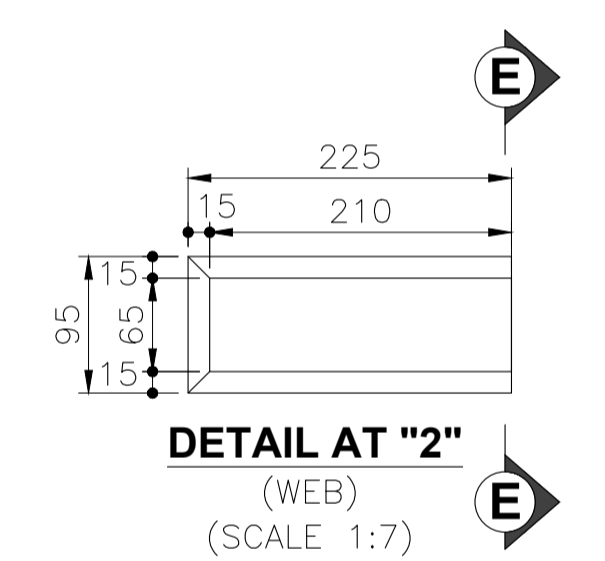
- DIMENSION DETAILS OF SUPERSTRUCTURE - APCO-SAP-46+290-MJB-DWG-401



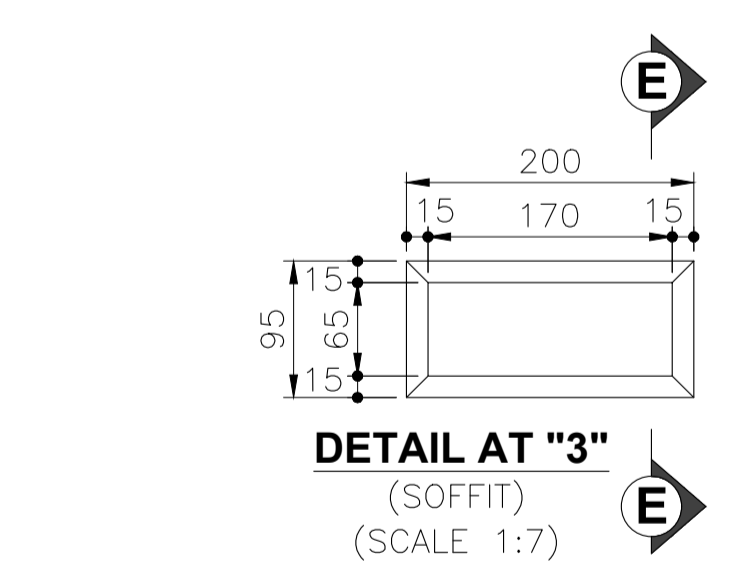
**SECTIONAL ELEVATION**  
(SCALE 1:40)



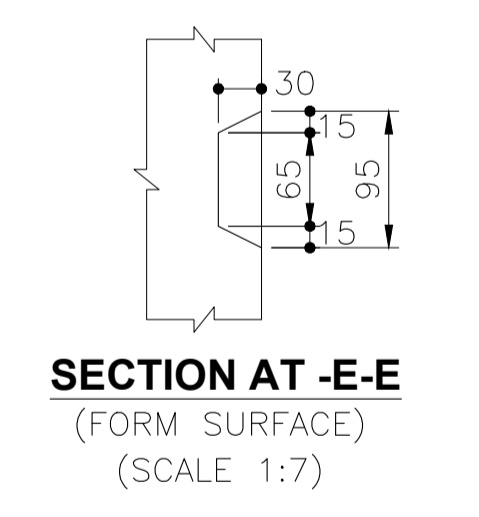
**DETAIL AT "1"**  
(TOP & SOFFIT)  
(SCALE 1:7)



**DETAIL AT "2"**  
(WEB)  
(SCALE 1:7)



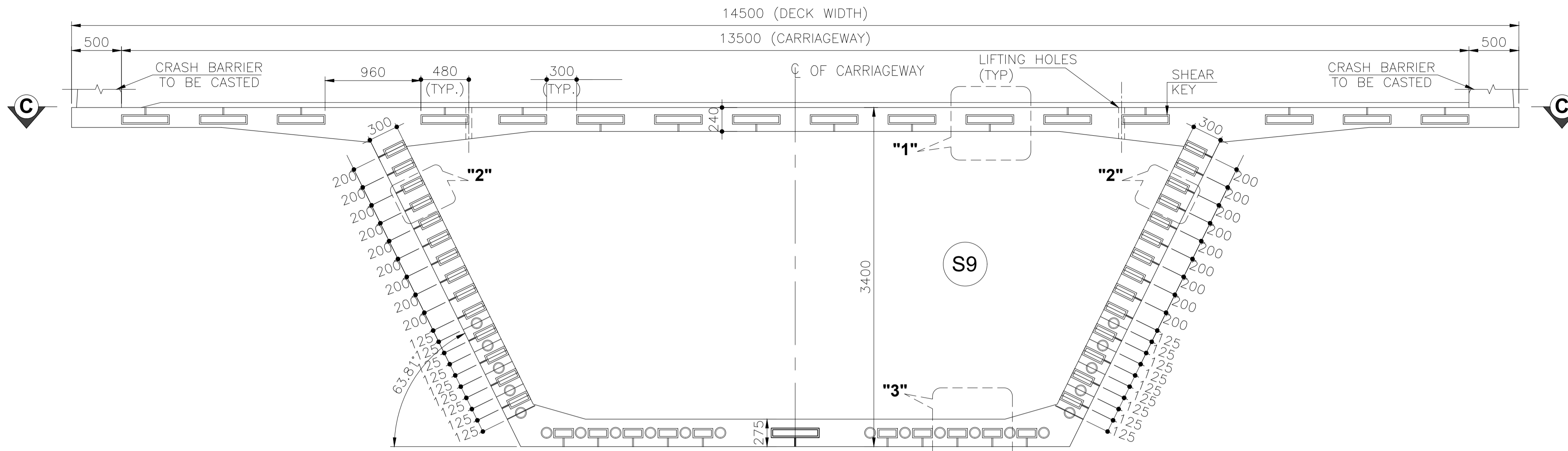
**DETAIL AT "3"**  
(SOFFIT)  
(SCALE 1:7)



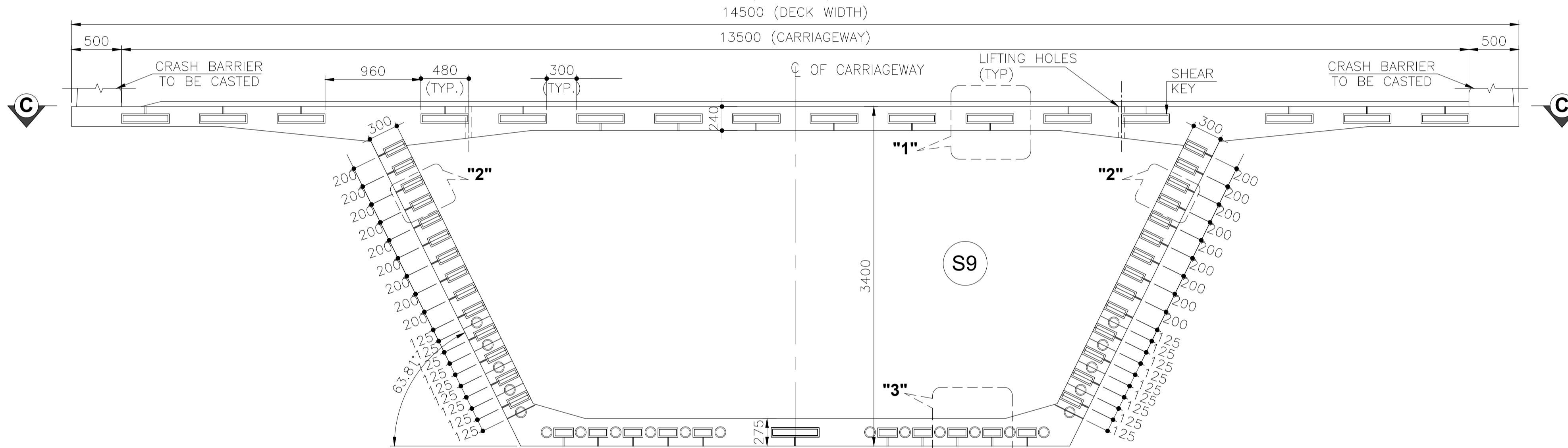
**SECTION AT E-E**  
(FORM SURFACE)  
(SCALE 1:7)



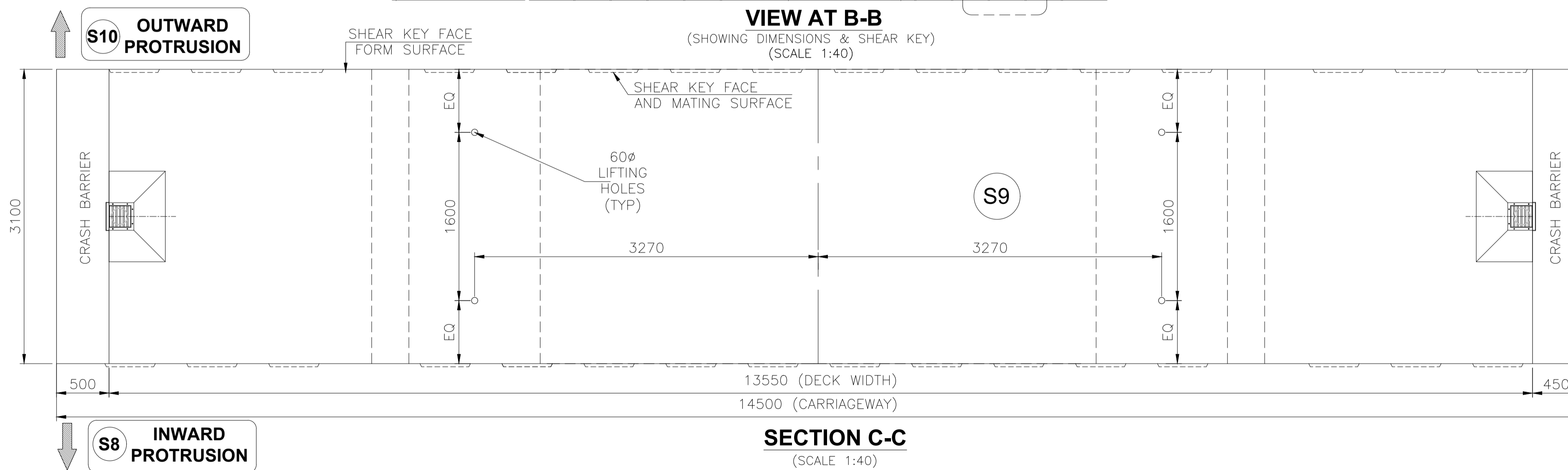
R3	AUG-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRA TECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA M/s LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHAZIABAD-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3, VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 316, 3rd FLOOR RG MALL, LSC, SECTOR-9, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Shamli - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S.	<b>TITLE -</b> DIMENSION DETAILS OF PRECAST SEGMENT - S8 OF PSC SEGMENTAL SUPERSTRUCTURE FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290  DRAWING NO - APCO-SAP-46+290-MJB-DWG-403  SCALE - AS SHOWN SHEET - (08 OF 11) SHEET SIZE - A2
R2	JULY-2023	REVISED AS PER AE'S COMMENTS										
R1	MAY-2023	REVISED AS PER PCC COMMENTS										
R0	MAR-2023	FIRST SUBMISSION										
REV	DATE	DESCRIPTION OF REVISIONS										



**VIEW AT A-A**  
(SHOWING DIMENSIONS)  
(SCALE 1:40)



**VIEW AT B-B**  
(SHOWING DIMENSIONS & SHEAR KEY)  
(SCALE 1:40)



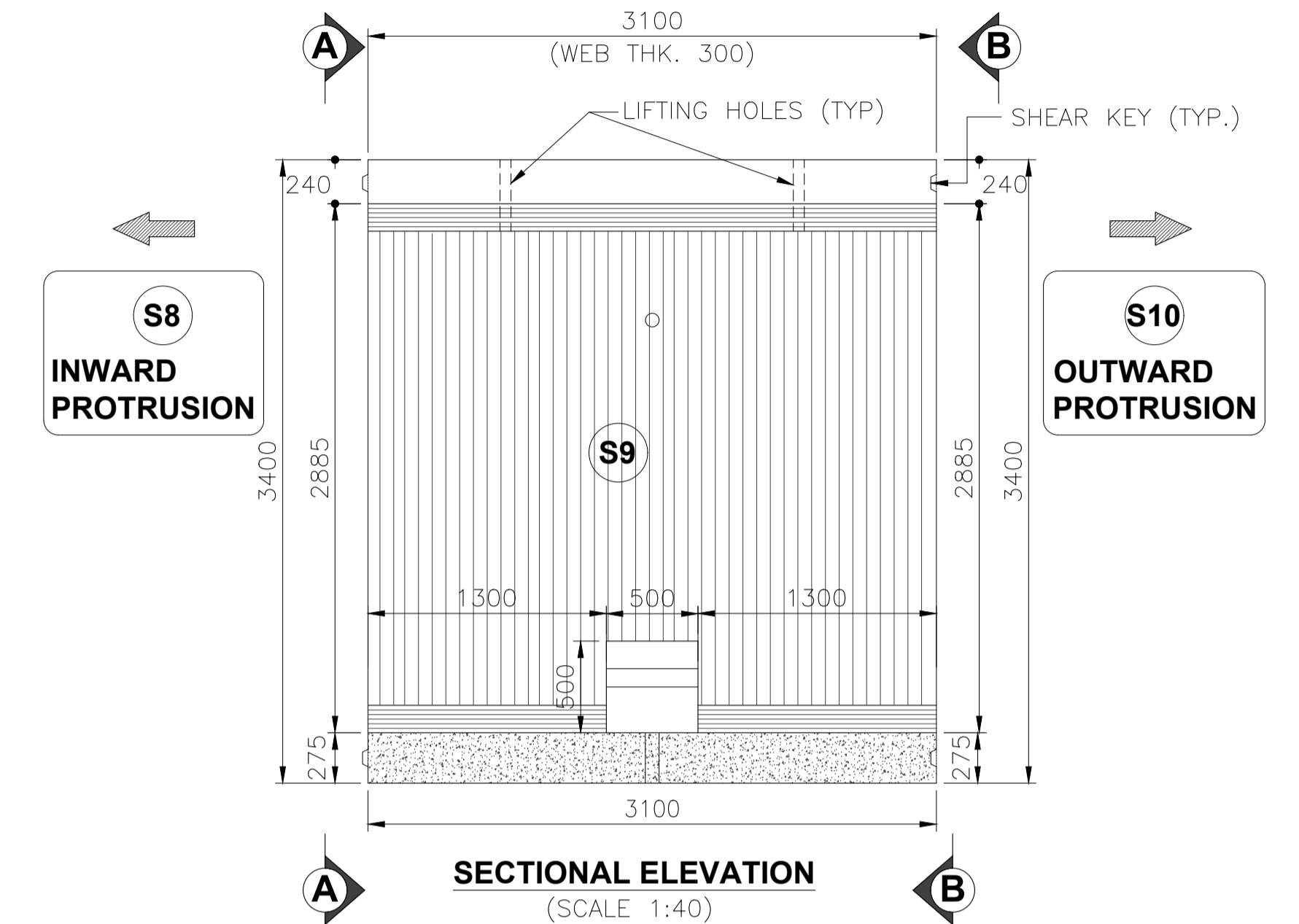
**SECTION C-C**  
(SCALE 1:40)

**NOTES:-**

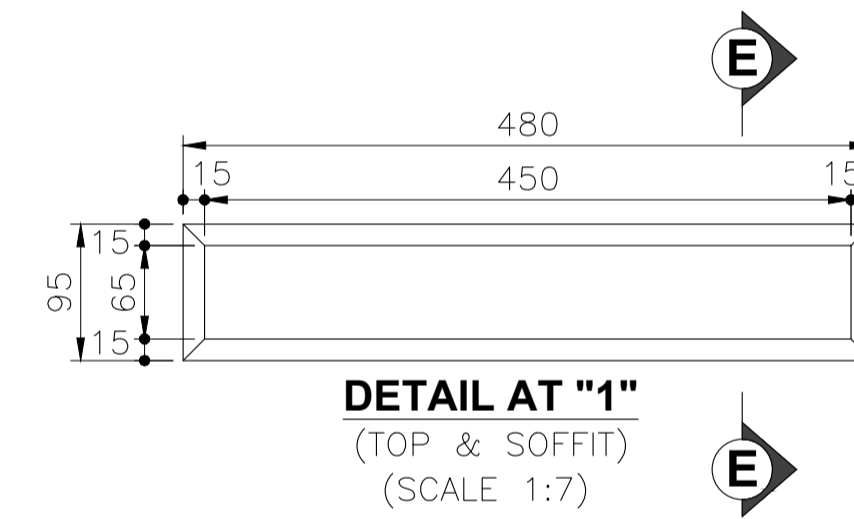
1. ALL DIMENSIONS ARE IN mm, LEVELS ARE IN m AND CHAINAGES ARE IN Km, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
2. SHEAR KEYS SHALL HAVE EXCESS RECESS EXTENDING UPTO APPROACHABLE CONCRETE SURFACE.IRC: SP: 65-2018.

**REFERENCE DRAWINGS:**

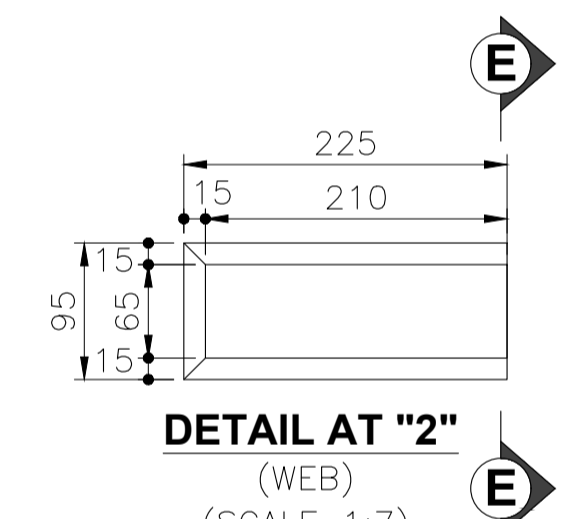
1. DIMENSION DETAILS OF SUPERSTRUCTURE - APCO-SAP-46+290-MJB-DWG-401



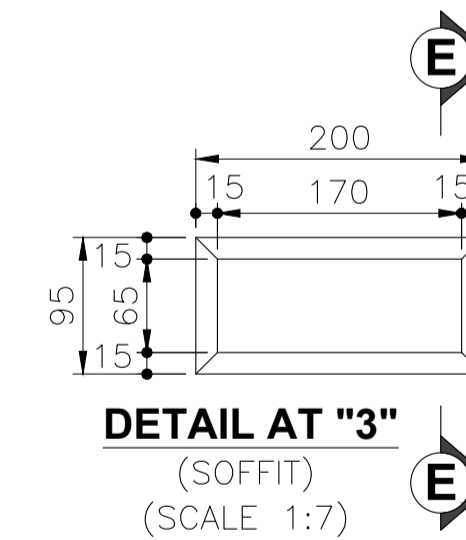
**SECTIONAL ELEVATION**  
(SCALE 1:40)



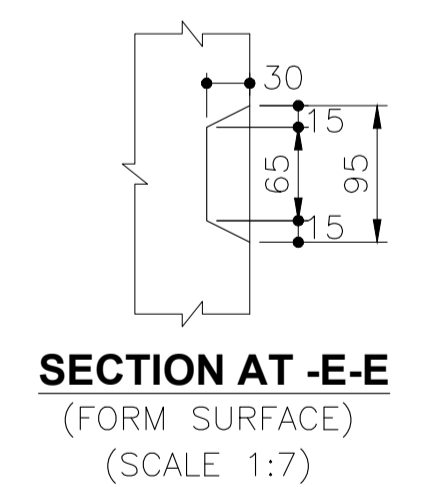
**DETAIL AT "1"**  
(TOP & SOFFIT)  
(SCALE 1:7)



**DETAIL AT "2"**  
(WEB)  
(SCALE 1:7)



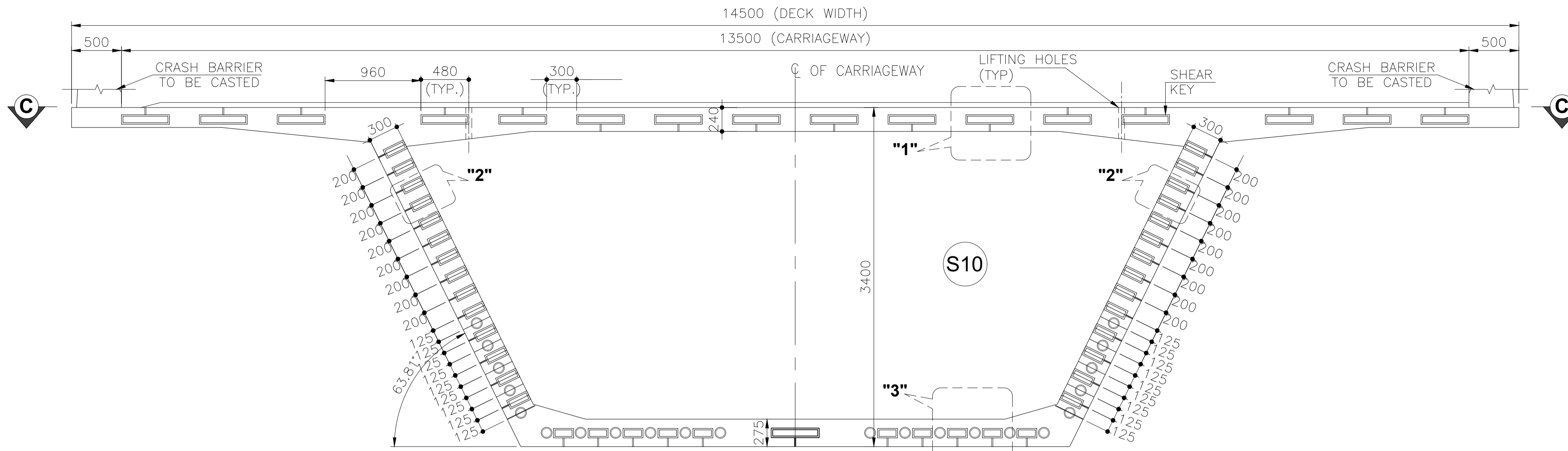
**DETAIL AT "3"**  
(SOFFIT)  
(SCALE 1:7)



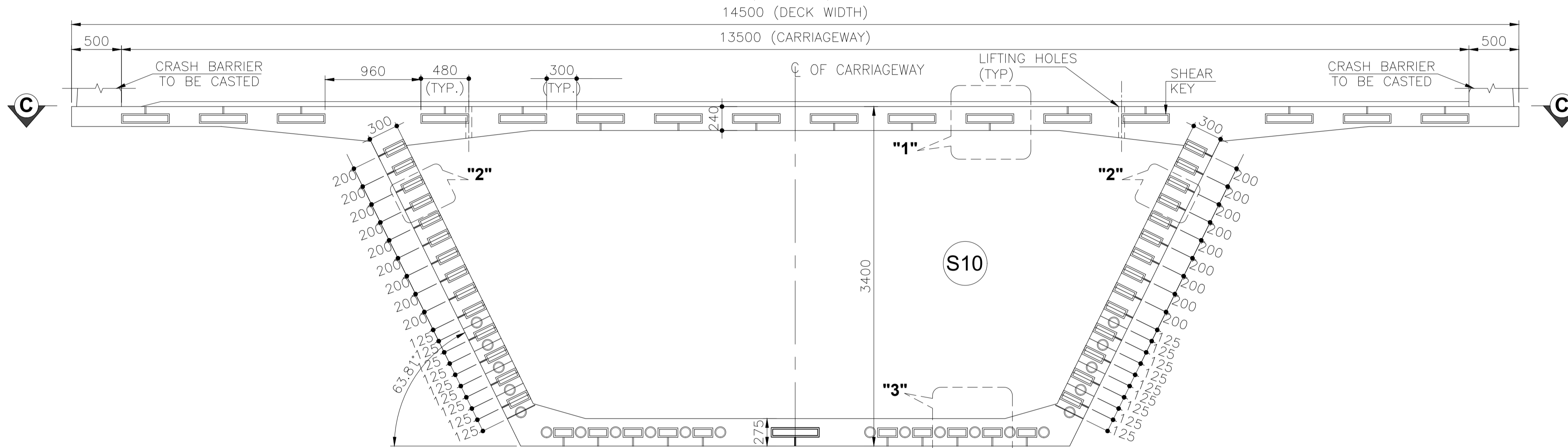
**SECTION AT -E-E**  
(FORM SURFACE)  
(SCALE 1:7)



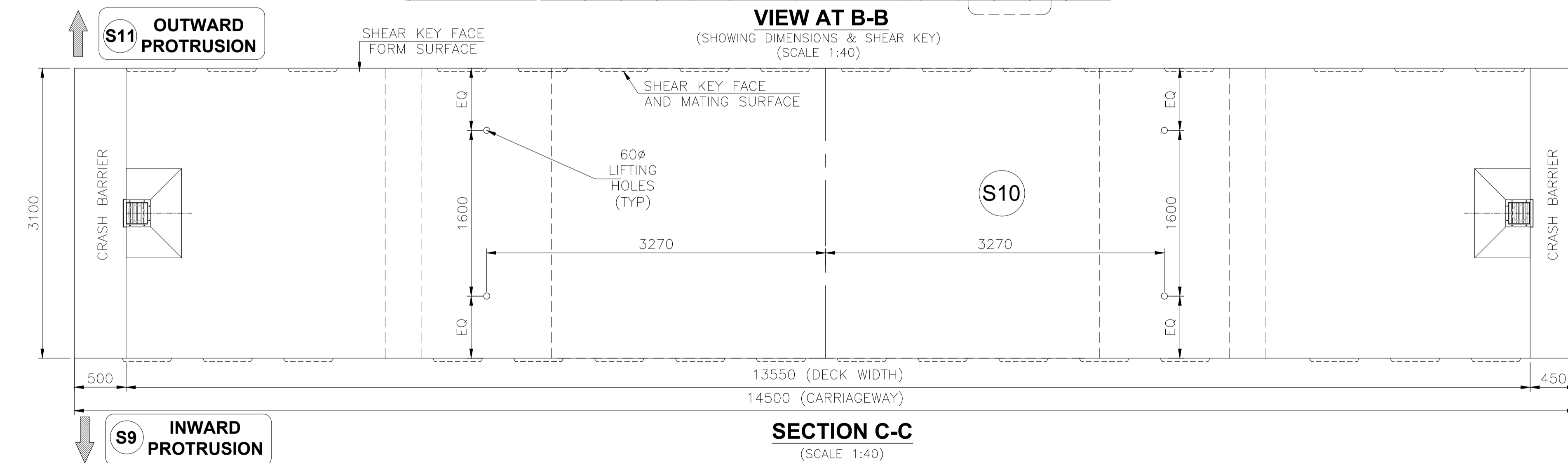
R3	AUG-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRA TECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA M/s LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHAZIABAD-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3, VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 316, 3rd FLOOR RG MALL, I.S.C, SECTOR-9, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Shami - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S.	<b>TITLE -</b> DIMENSION DETAILS OF PRECAST SEGMENT - S9 OF PSC SEGMENTAL SUPERSTRUCTURE FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290
R2	JULY-2023	REVISED AS PER AE'S COMMENTS								DESIGNED	M.S.	
R1	MAY-2023	REVISED AS PER PCC COMMENTS								CHECKED	K.S.	
R0	MAR-2023	FIRST SUBMISSION								APPROVED	A.K.J.	
REV	DATE	DESCRIPTION OF REVISIONS										



**VIEW AT A-A**  
(SHOWING DIMENSIONS)  
(SCALE 1:40)



**VIEW AT B-B**  
(SHOWING DIMENSIONS & SHEAR KEY)  
(SCALE 1:40)



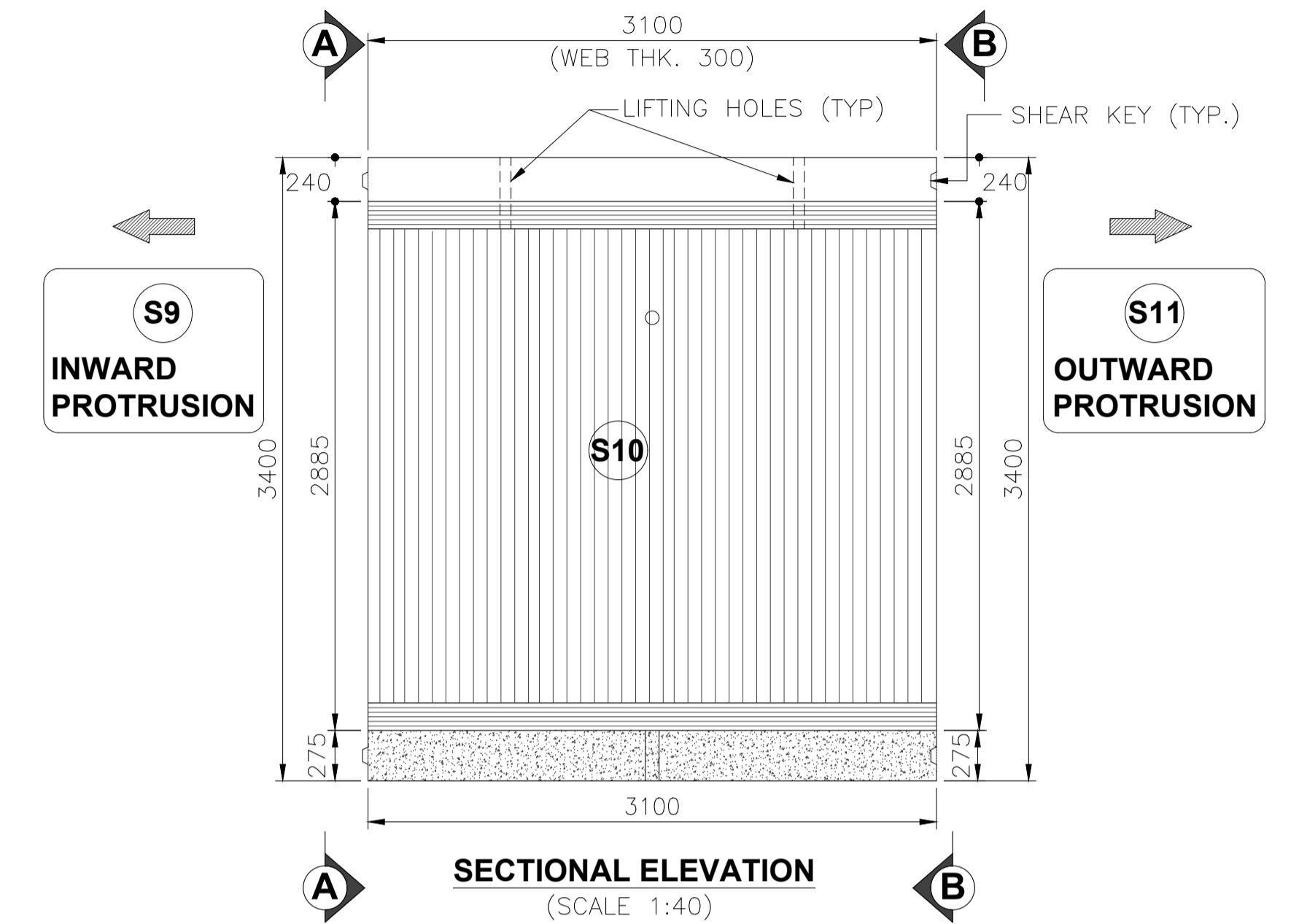
**SECTION C-C**  
(SCALE 1:40)

**NOTES:-**

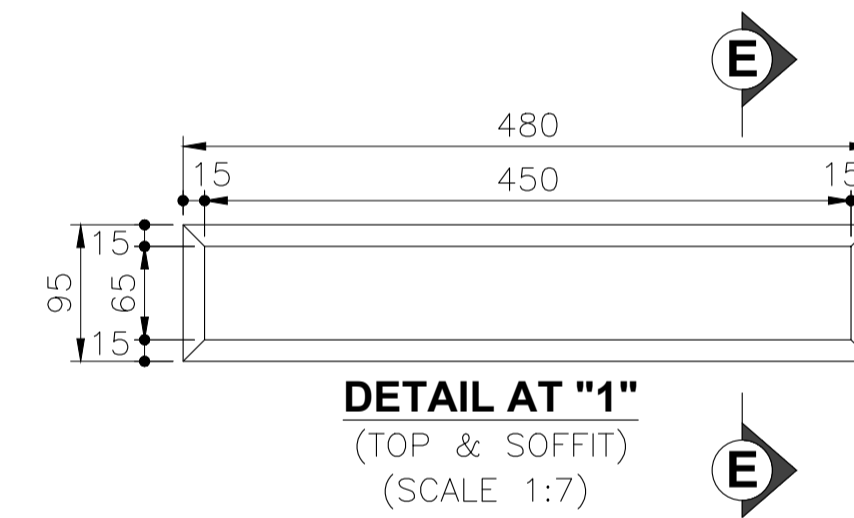
1. ALL DIMENSIONS ARE IN mm, LEVELS ARE IN m AND CHAINAGES ARE IN Km, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
2. SHEAR KEYS SHALL HAVE EXCESS RECESS EXTENDING UPTO APPROACHABLE CONCRETE SURFACE.IRC: SP: 65-2018.

**REFERENCE DRAWINGS:**

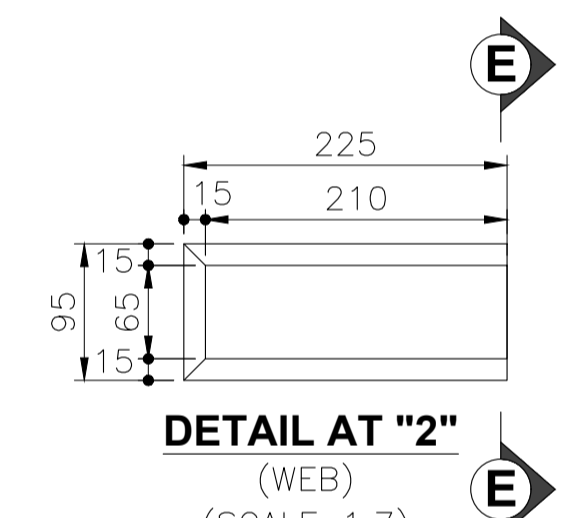
1. DIMENSION DETAILS OF SUPERSTRUCTURE - APCO-SAP-46+290-MJB-DWG-401



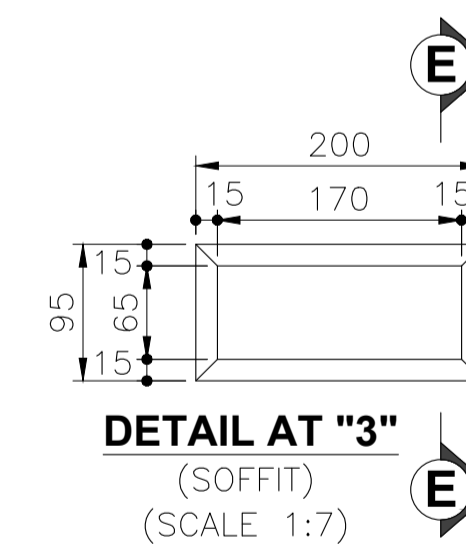
**SECTIONAL ELEVATION**  
(SCALE 1:40)



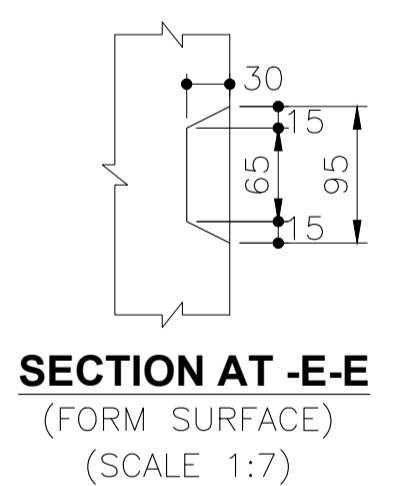
**DETAIL AT "1"**  
(TOP & SOFFIT)  
(SCALE 1:7)



**DETAIL AT "2"**  
(WEB)  
(SCALE 1:7)



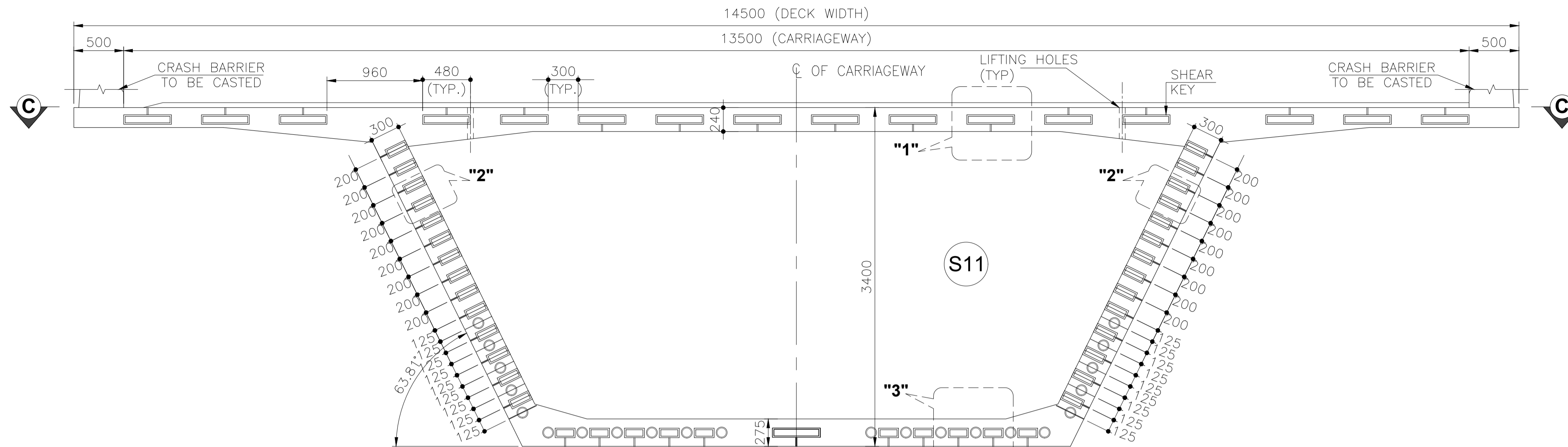
**DETAIL AT "3"**  
(SOFFIT)  
(SCALE 1:7)



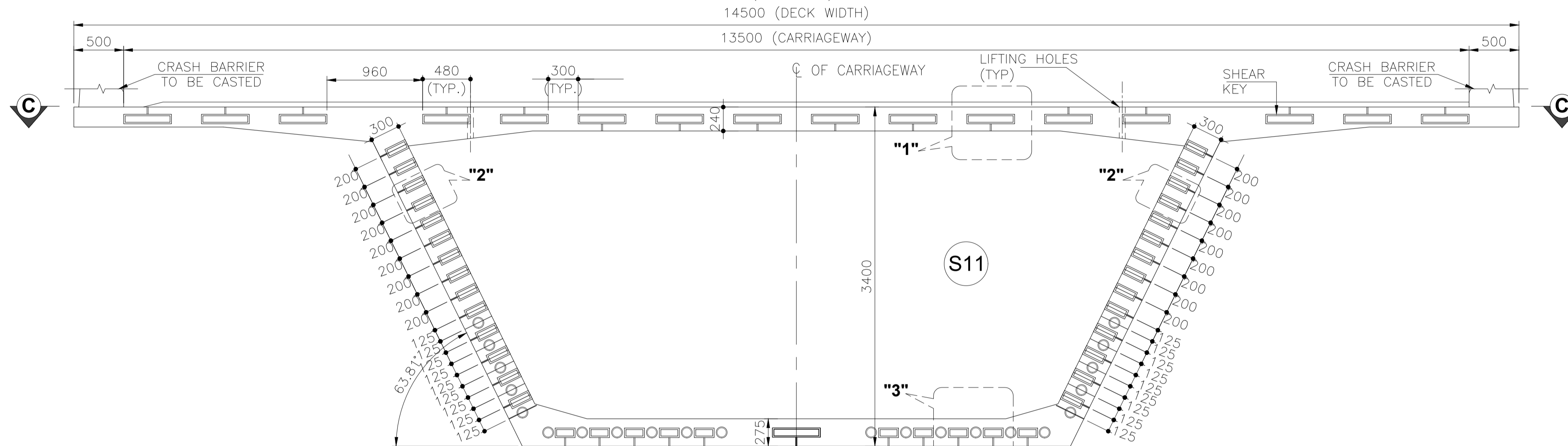
**SECTION AT -E-E**  
(FORM SURFACE)  
(SCALE 1:7)



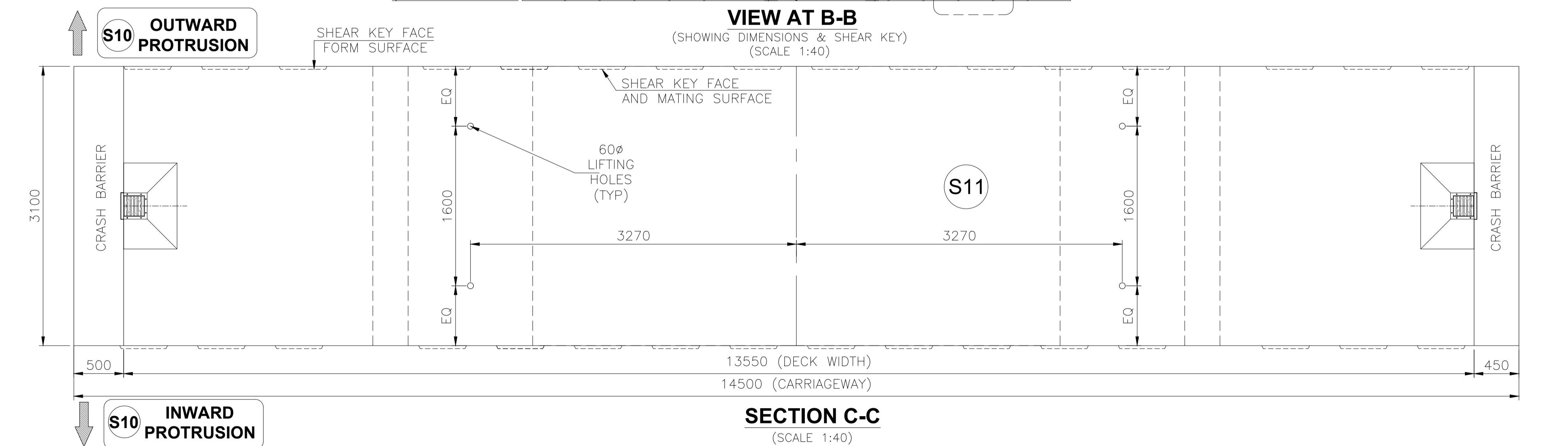
R3	AUG.-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRA TECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA M/s LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHAJIABAD-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3, VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 316, 3rd FLOOR RG MALL, I.S.C, SECTOR-8, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Sharnli - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S.	<b>TITLE -</b> DIMENSION DETAILS OF PRECAST SEGMENT - S10 OF PSC SEGMENTAL SUPERSTRUCTURE FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290  DRAWING NO - APCO-SAP-46+290-MJB-DWG-403  SCALE - AS SHOWN SHEET - (10 OF 11) SHEET SIZE - A2
R2	JULY-2023	REVISED AS PER AE'S COMMENTS										
R1	MAY-2023	REVISED AS PER PCC COMMENTS										
R0	MAR-2023	FIRST SUBMISSION										
REV	DATE	DESCRIPTION OF REVISIONS										



**VIEW AT A-A**  
(SHOWING DIMENSIONS)  
(SCALE 1:40)



**VIEW AT B-B**  
(SHOWING DIMENSIONS & SHEAR KEY)  
(SCALE 1:40)



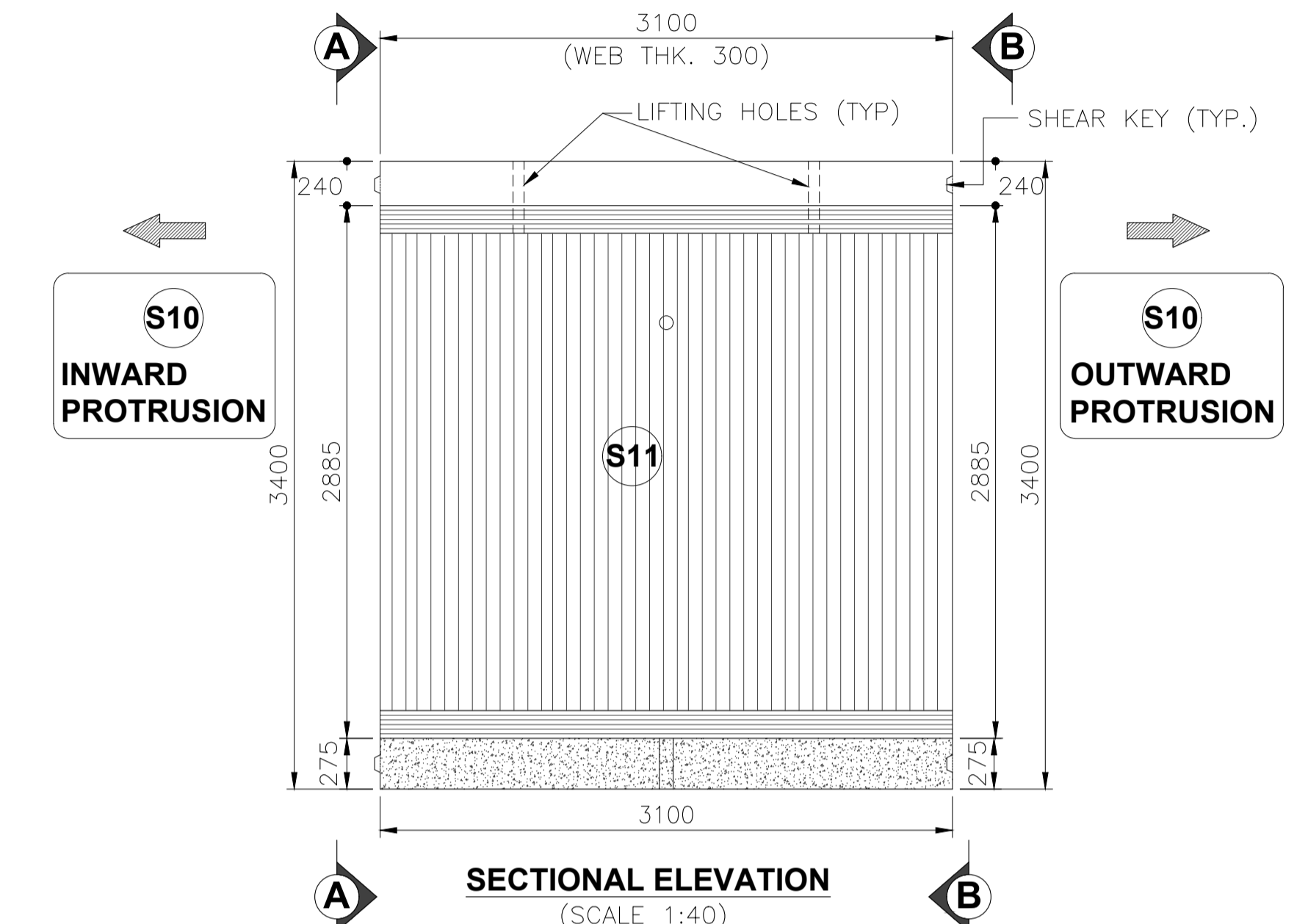
**SECTION C-C**  
(SCALE 1:40)

**NOTES:-**

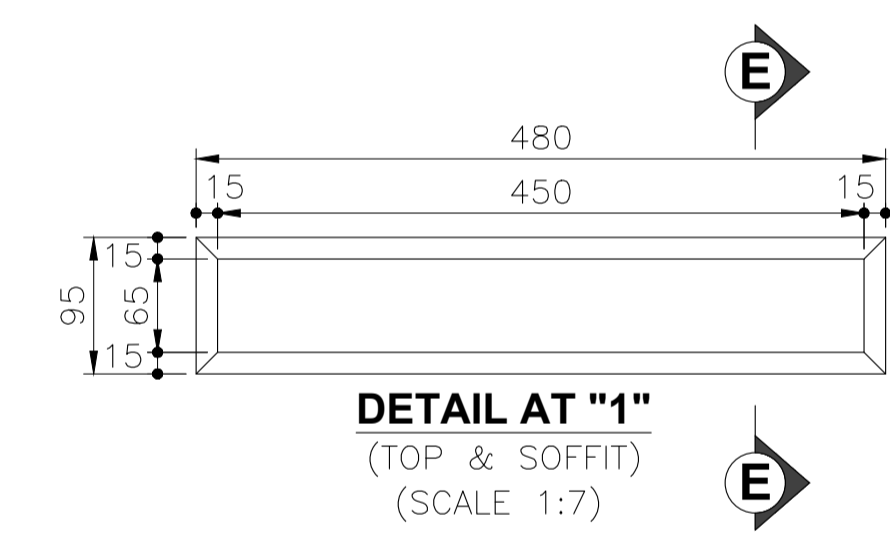
- ALL DIMENSIONS ARE IN mm, LEVELS ARE IN m AND CHAINAGES ARE IN Km, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DIMENSION IS TO BE SCALED.
- SHEAR KEYS SHALL HAVE EXCESS RECESS EXTENDING UPTO APPROACHABLE CONCRETE SURFACE. IRC: SP: 65-2018.

**REFERENCE DRAWINGS:**

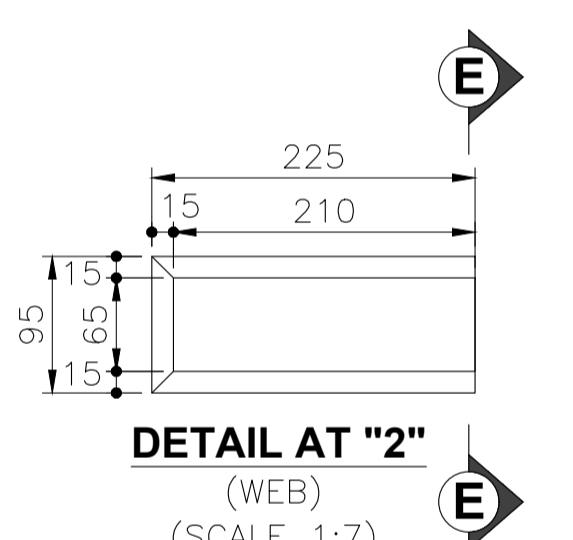
- DIMENSION DETAILS OF SUPERSTRUCTURE - APCO-SAP-46+290-MJB-DWG-401



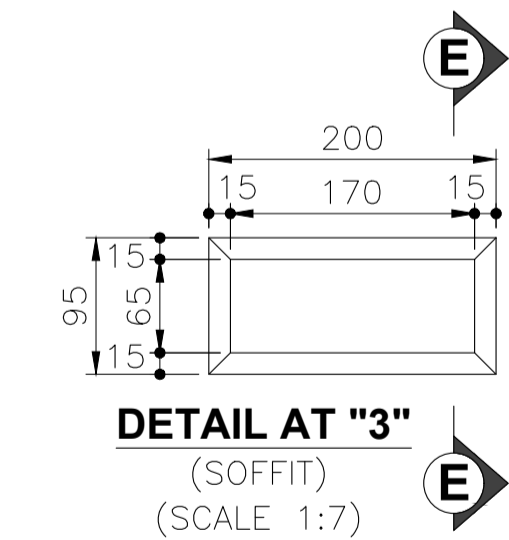
**SECTIONAL ELEVATION**  
(SCALE 1:40)



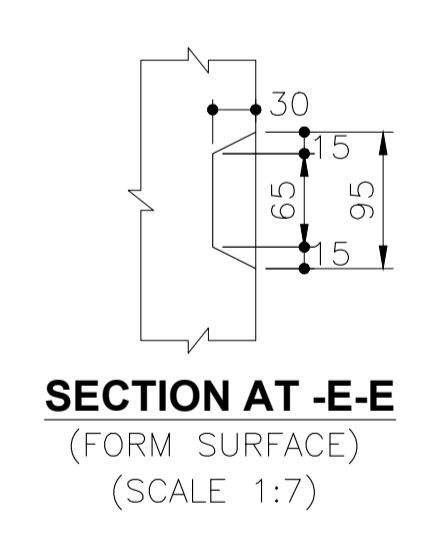
**DETAIL AT "1"**  
(TOP & SOFFIT)  
(SCALE 1:7)



**DETAIL AT "2"**  
(WEB)  
(SCALE 1:7)



**DETAIL AT "3"**  
(SOFFIT)  
(SCALE 1:7)



**SECTION AT -E-E**  
(FORM SURFACE)  
(SCALE 1:7)



R3	AUG-2023	REVISED SUBMISSION	<b>CLIENT:-</b> NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways) Government of India G - 5 & 6, Sector - 10, New Delhi - 110075	<b>CONTRACTOR:-</b> APCO INFRA TECH PVT. LTD. Universal Trade Tower 4th Floor, Sector 49, Sohna Road Gurugram - 122101 0124-4417300	<b>AUTHORITY ENGINEER :-</b> LEA M/s LEA ASSOCIATES SOUTH ASIA PVT. LTD. B-1, E-27, Mohan Cooperative Industrial Estate Mathura Road New Delhi-110044, India	<b>PROOF CONSULTANT:-</b> EWAY Engineering Pvt. Ltd. GHAZIABAD-201012, 4CF-63 CORPORATE SUITES, ANSAL PLAZA, 1/70 TF-1 SECTOR-3, VASUNDHARA VASIHALI-GHAZIABAD	<b>SAFETY CONSULTANT:-</b> PNG PLANNING & STRUCTURAL CONSULTANTS (P) LTD. 315, 3rd FLOOR RG MALL, I.S.C. SECTOR-9, ROHINI DELHI-110085, Phone No- 27865401 Mobile:-9540863993	<b>DESIGN CONSULTANTS :-</b> CEG CONSULTING ENGINEERS GROUP LTD. An ISO 9001:2008 Company CEG Tower, B-11(G), Malviya Industrial Area, Jaipur - 302017 India Tel: +91 141 2751801, 2751802, 2751803, 2751804 Fax: 0141-2751806 Email address: hqpr@cegindia.com URL: www.cegindia.com	<b>PROJECT :</b> Detailed Design For Six-Lane Access Controlled Highway from Ranipur Barsi (Saharanpur district) to Adhoya Musalmana (Ambala district) (from Ch. 45+500 to 84+400) of Shamlu - Ambala section of Bareilly - Ludhiana Economic Corridor on EPC Mode under Bharatmala Pariyojana Phase-I in the State of Haryana (Package-2)	DRAWN	S.S.	<b>TITLE -</b> DIMENSION DETAILS OF PRECAST SEGMENT - S11 OF PSC SEGMENTAL SUPERSTRUCTURE FOR MAJOR BRIDGE ON YAMUNA RIVER AT CA CH. 46+290  DRAWING NO - APCO-SAP-46+290-MJB-DWG-403  SCALE - AS SHOWN SHEET - (11 OF 11) SHEET SIZE - A2
R2	JULY-2023	REVISED AS PER AE'S COMMENTS										
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