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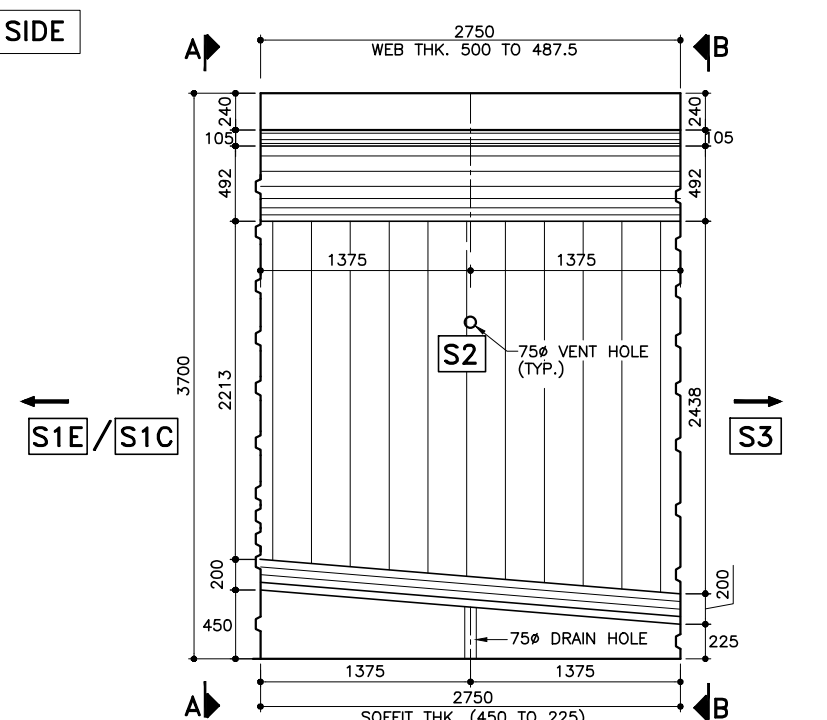
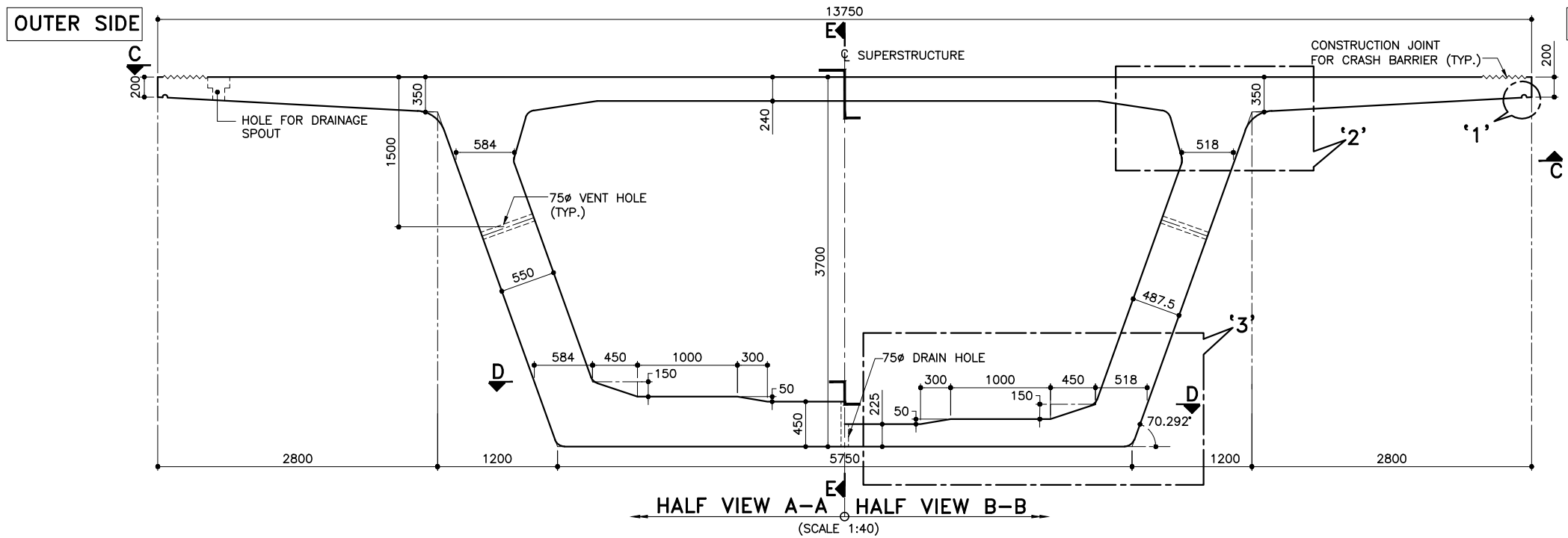
1. ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. FOR DETAILS OF SHEAR KEY AND LOCATION OF CABLES DUCT FOR LONGITUDINAL CABLES, REFER SEPARATE DRAWINGS.
4. POCKET FOR ANCHORAGE SHALL BE CAST AFTER ALL PRESTRESSING OPERATIONS ARE OVER AND DUCT HOLES GROUTED.

REFERENCE DRAWINGS:

1. BSEC/2104/EV/122+205/SD-101 TO 102 — DIMENSIONAL DETAILS OF SUPERSTRUCTURE FOR 2x65M SPAN (STRAIGHT MODULE)
2. BSEC/2104/EV/122+205/SD-103 TO 105 — PRESTRESSING DETAILS OF SUPERSTRUCTURE FOR 65M SPAN (STRAIGHT MODULE)
3. BSEC/2104/EV/122+205/SD-113 TO 115 — DETAILS OF SHEAR KEY OF SUPERSTRUCTURE FOR 65M SPAN

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<p>Rev. Date Description Approved</p> <p>THIS DRAWING IS THE SOLE PROPERTY OF B & S ENGINEERING CONSULTANTS PVT. LTD. AND IS ISSUED TO THE PARTY FOR THE SPECIFIC PURPOSE AS STATED IN THE AGREEMENT. IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OFF DIRECTLY OR INDIRECTLY, NOT USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.</p>	<p>PROJECT:</p> <p>CONSTRUCTION OF 4 LANE BANGALORE CHENNAI EXPRESSWAY FROM 96+000 TO 127+000 KM (BAIREDDYPALLE TO BANGARUPALEM SECTION) IN STATE OF ANDHRA PRADESH UNDER BHARATMALA ON HYBRID ANNUITY MODE (PHASE II-PACKAGE II)</p>	<p>CLIENT:</p> <p>NATIONAL HIGHWAYS AUTHORITY OF INDIA</p> <p>(Ministry of Road Transport & Highways Government of India)</p>	<p>CONCESSIONAIRE:</p> <p>APCO TIRUMALA EXPRESSWAY PVT.LTD.</p> <p>(A SPV for Development of Bangalore- Chennai Expressway -Package-02)</p>	<p>STRUCTURAL DESIGN CONSULTANTS:</p> <p>B&S ENGINEERING CONSULTANTS PVT. LTD.</p> <p>315-316 VISHAL CHAMBERS, P-1, SECTOR-18, NOIDA, (U.P) 201301, Tel: 0120-4570703, 4310433 email: admin@bsecl.in, Website: www.bsecl.in</p>	<p>DRAWN</p> <p>S.Nirmaikar</p>	<p>TITLE:</p> <p>DIMENSIONAL DETAILS OF PRECAST SEGMENT S1C FOR 65M SPAN (STRAIGHT MODULE)</p>
	<p>INDEPENDENT ENGINEER:</p> <p>SATRA INFRASTRUCTURE MANAGEMENT SERVICES PVT LTD</p> <p>OFFICE: OFFICE NO.23 SATKAR BUILDING 79-80, 2ND FLOOR, NEHRU PLACE, NEW DELHI, DELHI 110019</p>	<p>CONTRACTOR:</p> <p>APCO INFRA TECH PVT. LTD.</p> <p>Universal Trade Tower, 4th Floor, Sector - 49, Sohna Road, Gurgaon-122101</p>	<p>HIGHWAY DESIGN CONSULTANTS:</p> <p>S.A.TECH</p> <p>Regd. Office : 9 / 1 , PUNJABI BAGH EXTENSION NEW DELHI - 110026 Office : INSTA OFFICE, GROUND FLOOR, 25-B, SECTOR-32 GURGAON-122001</p>	<p>DESIGNED</p> <p>Neeraj</p>	<p>DRG. NO:</p> <p>BSEC/2104/ EV/122+205/SD-107</p>	
					<p>APPROVED</p> <p>S.Jain</p>	<p>REV:</p> <p>RA</p>
					<p>ISSUED</p> <p>A.Bhowmick</p>	<p>SCALE:</p> <p>AS SHOWN</p>
					<p>DATE:</p> <p>02.03.2023</p>	

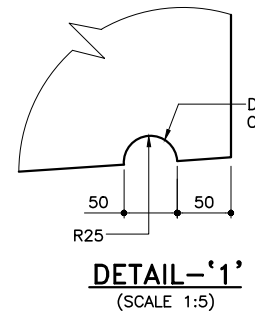
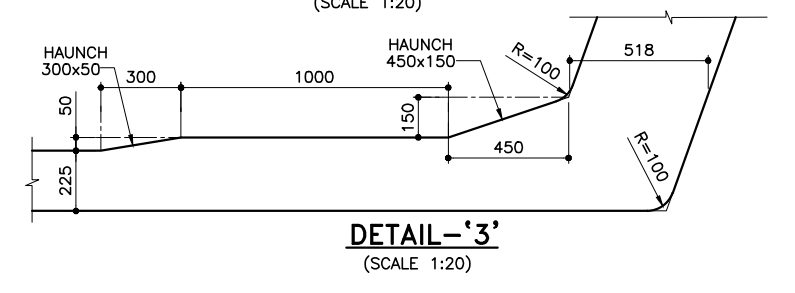
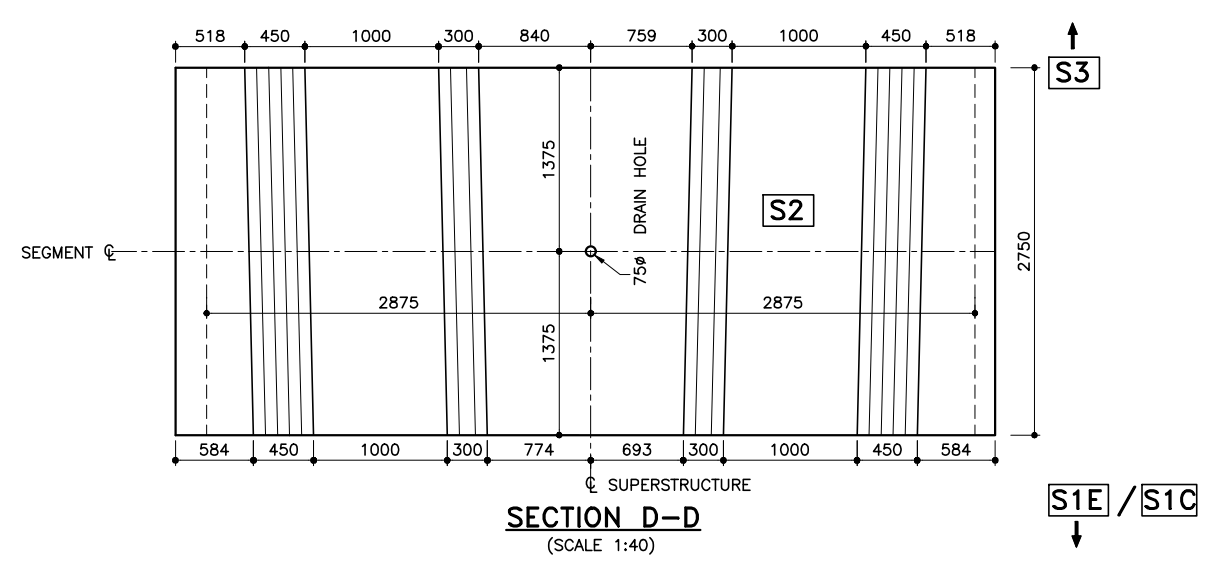
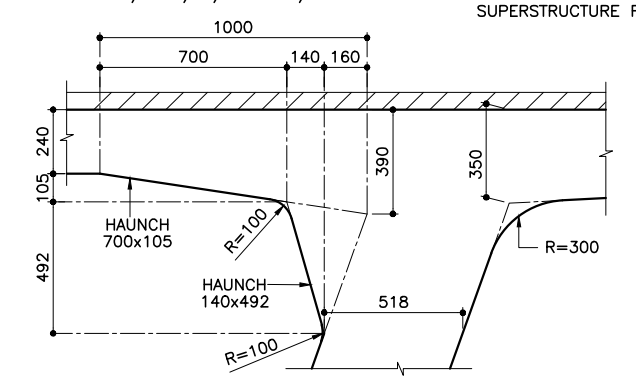
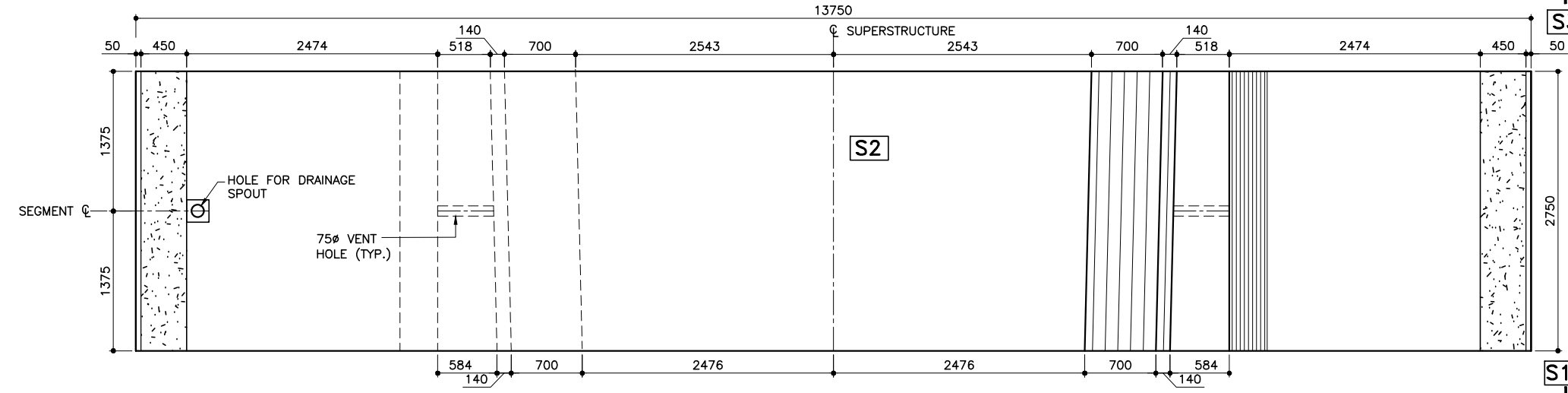


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REFERENCE DRAWINGS:

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2. BSEC/2104/EV/122+205/SD-103 TO 105 — PRESTRESSING DETAILS OF SUPERSTRUCTURE FOR 65M SPAN (STRAIGHT MODULE)
3. BSEC/2104/EV/122+205/SD-113 TO 115 — DETAILS OF SHEAR KEY OF SUPERSTRUCTURE FOR 65M SPAN



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PROJECT:
CONSTRUCTION OF 4 LANE BANGALORE CHENNAI EXPRESSWAY FROM 96+000 TO 127+000 KM (BAIREDDYPALLE TO BANGARUPALEM SECTION) IN STATE OF ANDHRA PRADESH UNDER BHARATMALA ON HYBRID ANNUITY MODE (PHASE II-PACKAGE II)

CLIENT:
NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways Government of India)

INDEPENDENT ENGINEER:
SATRA INFRASTRUCTURE MANAGEMENT SERVICES PVT LTD

OFFICE:
OFFICE NO.23 SATKAR BUILDING 79-80, 2ND FLOOR, NEHRU PLACE, NEW DELHI, DELHI 110019

CONCESSIONAIRE:
APCO TIRUMALA EXPRESSWAY PVT.LTD.
(A SPV for Development of Bangalore- Chennai Expressway -Package-02)

CONTRACTOR:
APCO INFRASTRUCTURE PVT. LTD.
Universal Trade Tower, 4th Floor, Sector - 49, Sohna Road, Gurgaon-122101

STRUCTURAL DESIGN CONSULTANTS:
B&S ENGINEERING CONSULTANTS PVT. LTD.
315-316 VISHAL CHAMBERS, P-1, SECTOR-18, NOIDA, (U.P) 201301, Tel: 0120-4570703, 4310433 email: admin@bsecl.in, Website: www.bsecl.in

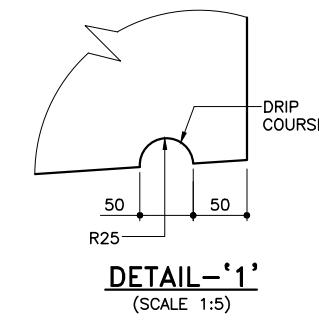
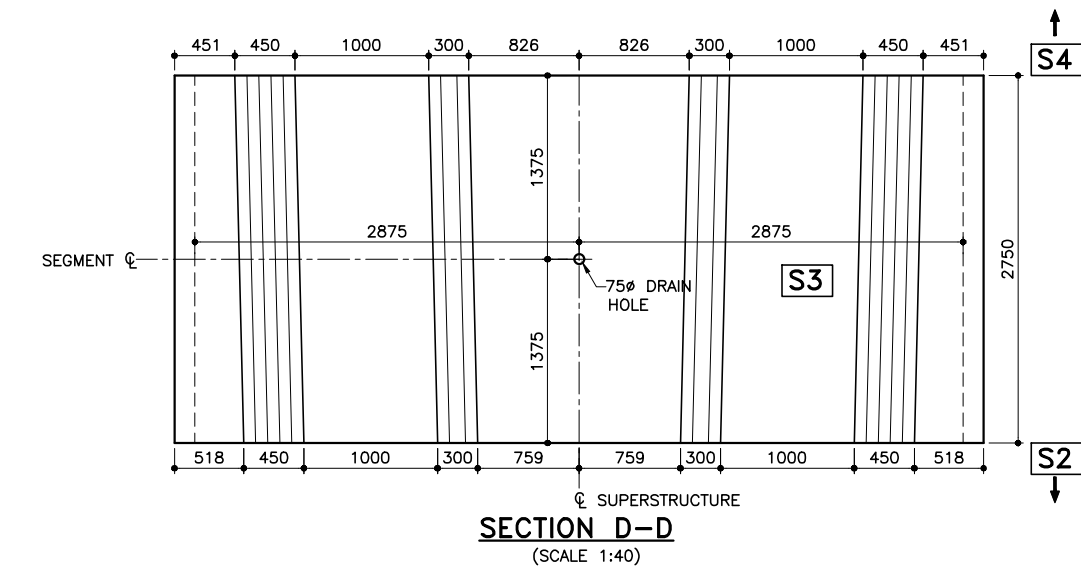
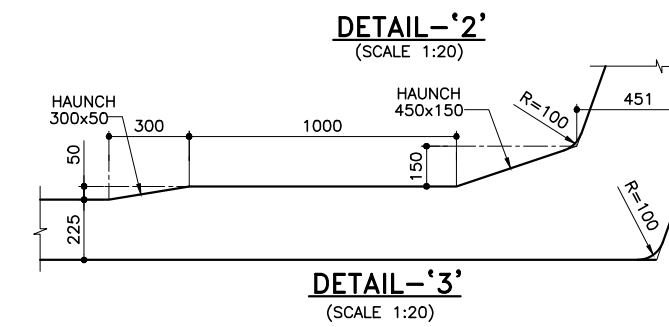
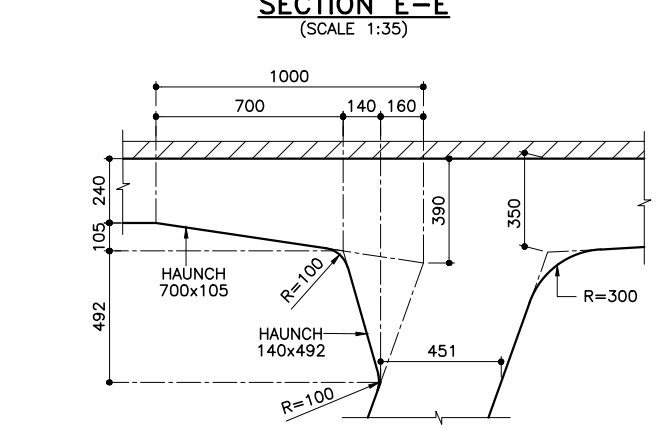
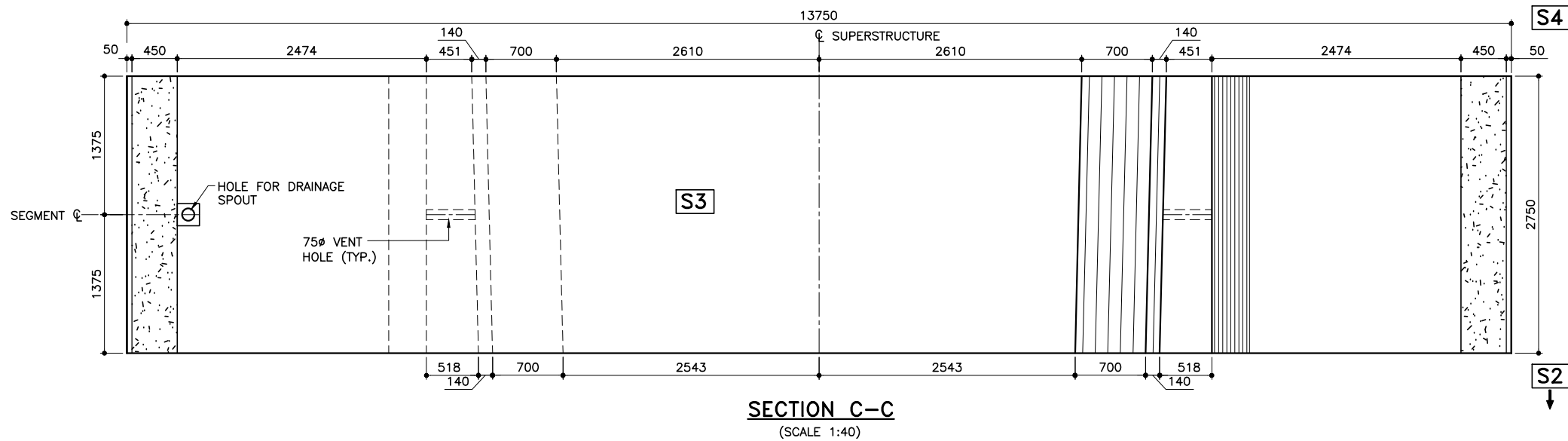
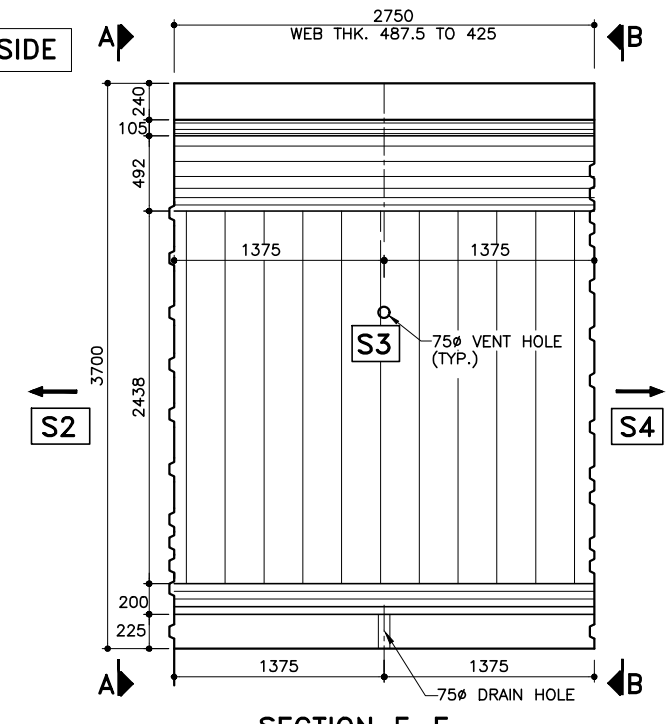
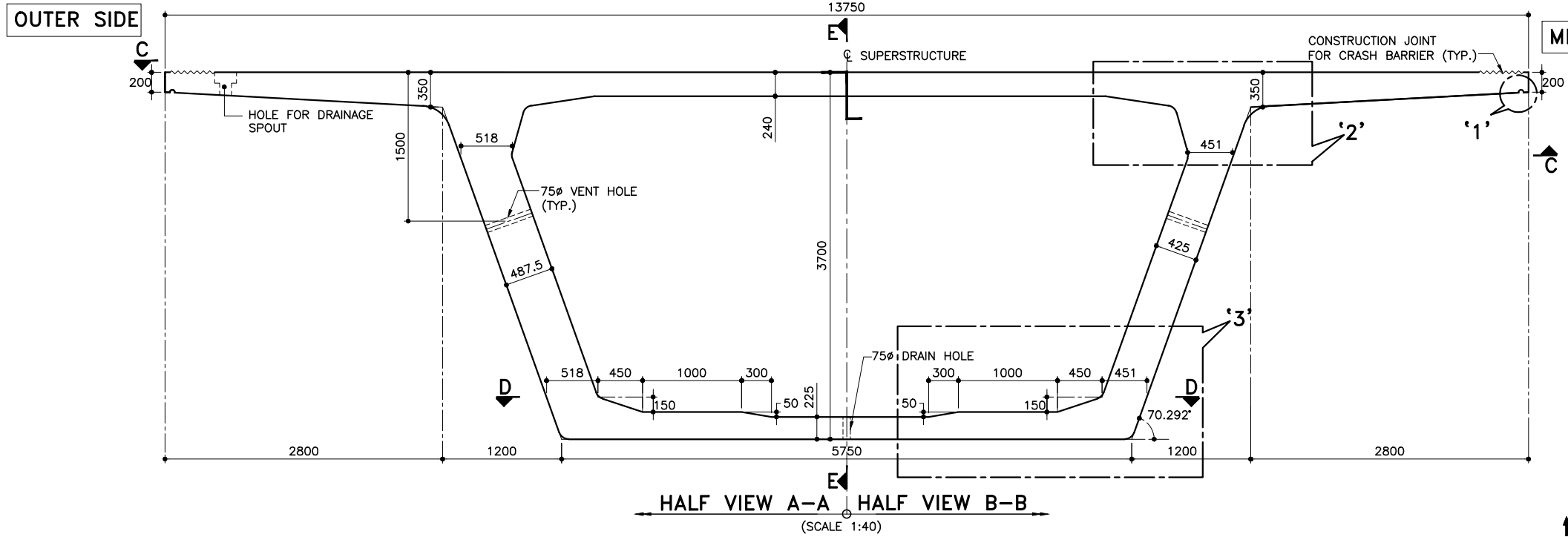
HIGHWAY DESIGN CONSULTANTS:
S.A.TECH
Regd. Office : 9 / 1 , PUNJABI BAGH EXTENSION NEW DELHI - 110026 Office : INSTA OFFICE, GROUND FLOOR, 25-B, SECTOR-32 GURGAON-122001

DRAWN	S.Nirmaikar
DESIGNED	Neeraj
CHECKED	Satyam
APPROVED	S.Jain
ISSUED	A.Bhowmick
SCALE:	AS SHOWN
DATE:	02.03.2023

TITLE:
DIMENSIONAL DETAILS OF PRECAST SEGMENT S2 FOR 65M SPAN (STRAIGHT MODULE)

DRG. NO:
BSEC/2104/ EV/122+205/SD-108

REV:
RA



- NOTES:**
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- REFERENCE DRAWINGS:**
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 3. BSEC/2104/EV/122+205/SD-113 TO 115 — DETAILS OF SHEAR KEY OF SUPERSTRUCTURE FOR 65M SPAN

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CONSTRUCTION OF 4 LANE BANGALORE CHENNAI EXPRESSWAY FROM 96+000 TO 127+000 KM (BAIREDDYPALLE TO BANGARUPALEM SECTION) IN STATE OF ANDHRA PRADESH UNDER BHARATMALA ON HYBRID ANNUITY MODE (PHASE II-PACKAGE II)

CLIENT:
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(Ministry of Road Transport & Highways Government of India)

INDEPENDENT ENGINEER:
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OFFICE:
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79-80, 2ND FLOOR, NEHRU PLACE,
NEW DELHI, DELHI 110019

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(A SPV for Development of Bangalore- Chennai Expressway -Package-02)

CONTRACTOR:
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Universal Trade Tower, 4th Floor, Sector - 49, Sohna Road, Gurgaon-122101

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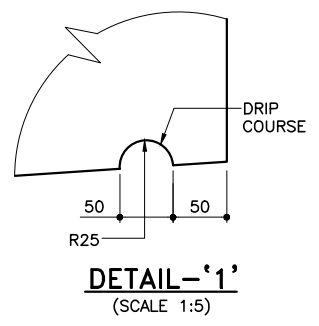
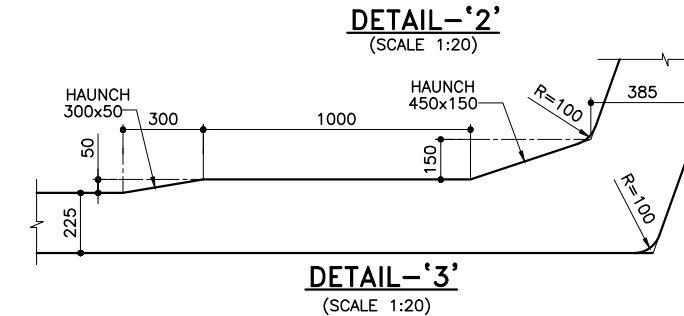
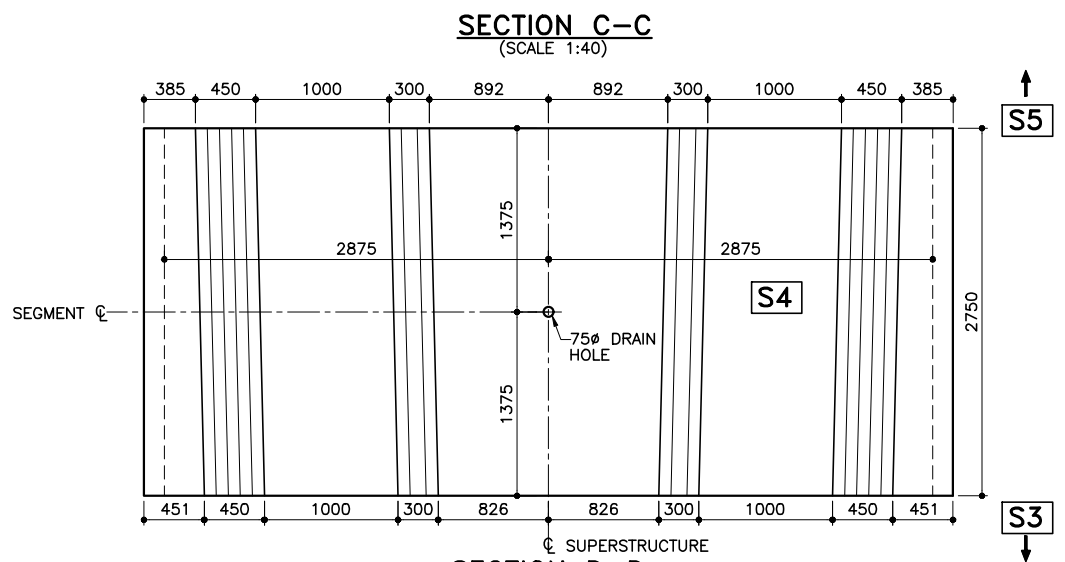
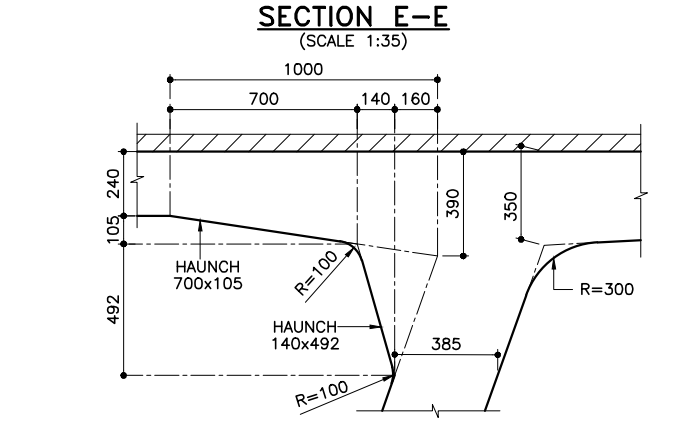
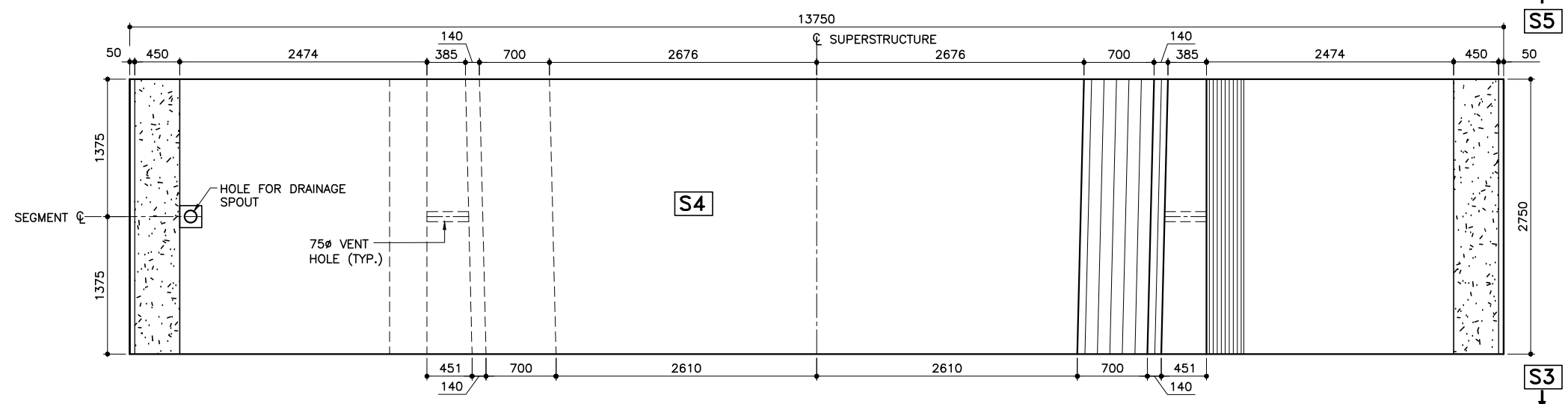
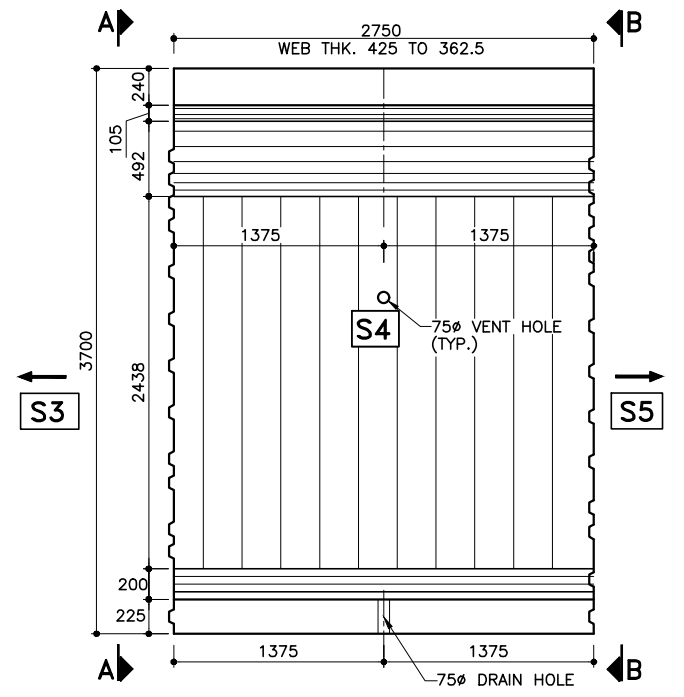
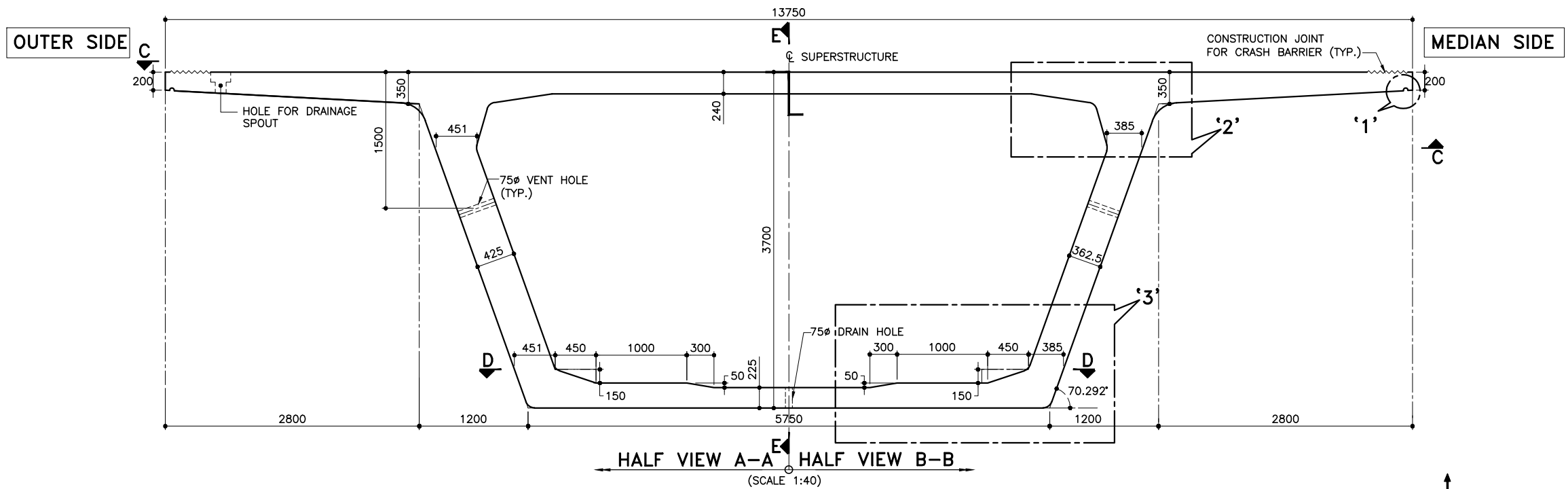
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Regd. Office : 9 / 1 , PUNJABI BAGH EXTENSION
NEW DELHI - 110026 Office : INSTA OFFICE,
GROUND FLOOR, 25-B, SECTOR-32
GURGAON-122001

DRAWN	S.Nirmaikar
DESIGNED	Neeraj
CHECKED	Satyam
APPROVED	S.Jain
ISSUED	A.Bhowmick
SCALE:	AS SHOWN
DATE:	02.03.2023

TITLE:
DIMENSIONAL DETAILS OF PRECAST SEGMENT S3 FOR 65M SPAN (STRAIGHT MODULE)

DRG. NO:
BSEC/2104/ EV/122+205/SD-109

REV:
RA



- NOTES:**
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- REFERENCE DRAWINGS:**
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 - BSEC/2104/EV/122+205/SD-103 TO 105 — PRESTRESSING DETAILS OF SUPERSTRUCTURE FOR 65M SPAN (STRAIGHT MODULE)
 - BSEC/2104/EV/122+205/SD-113 TO 115 — DETAILS OF SHEAR KEY OF SUPERSTRUCTURE FOR 65M SPAN

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INDEPENDENT ENGINEER:
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CONCESSIONAIRE:
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CONTRACTOR:
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Universal Trade Tower, 4th Floor, Sector - 49, Sohna Road, Gurgaon-122101

STRUCTURAL DESIGN CONSULTANTS:
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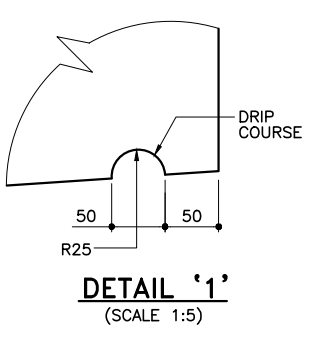
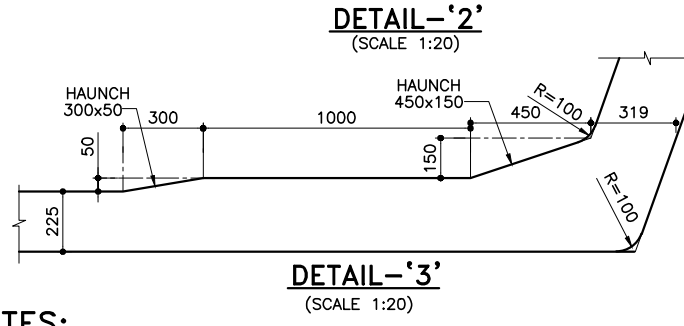
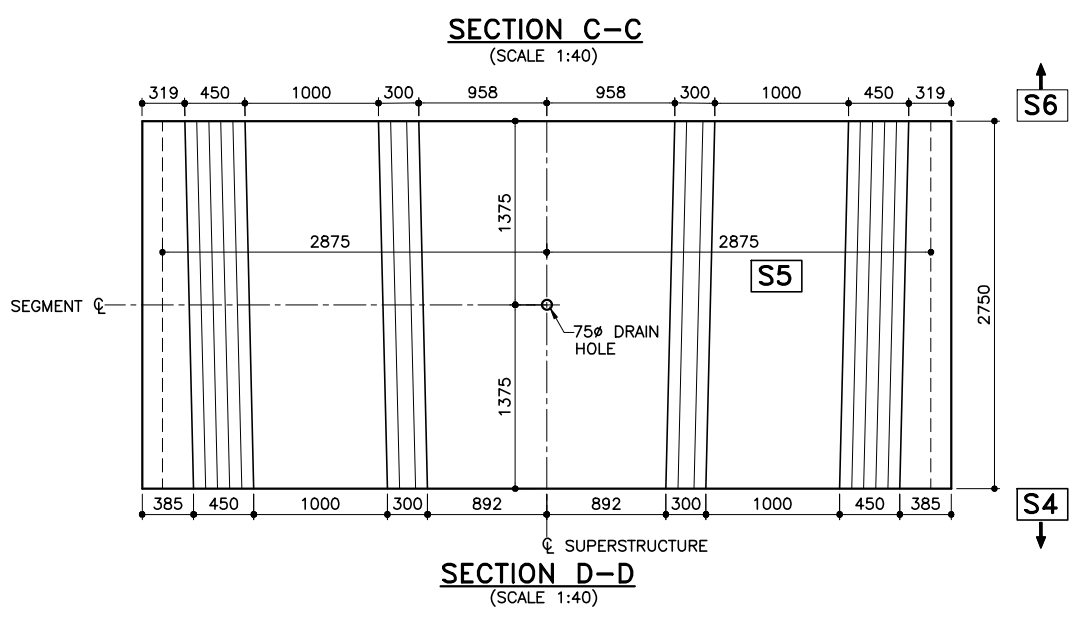
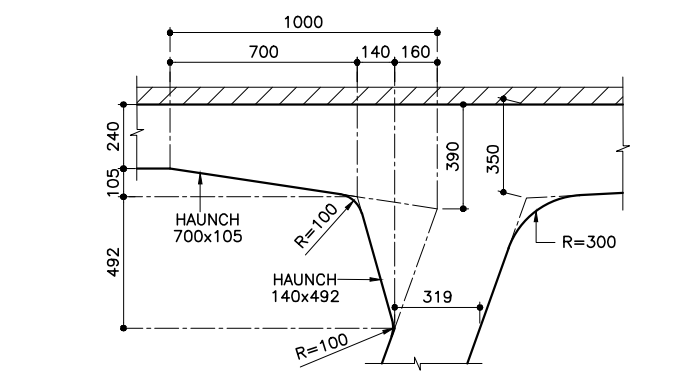
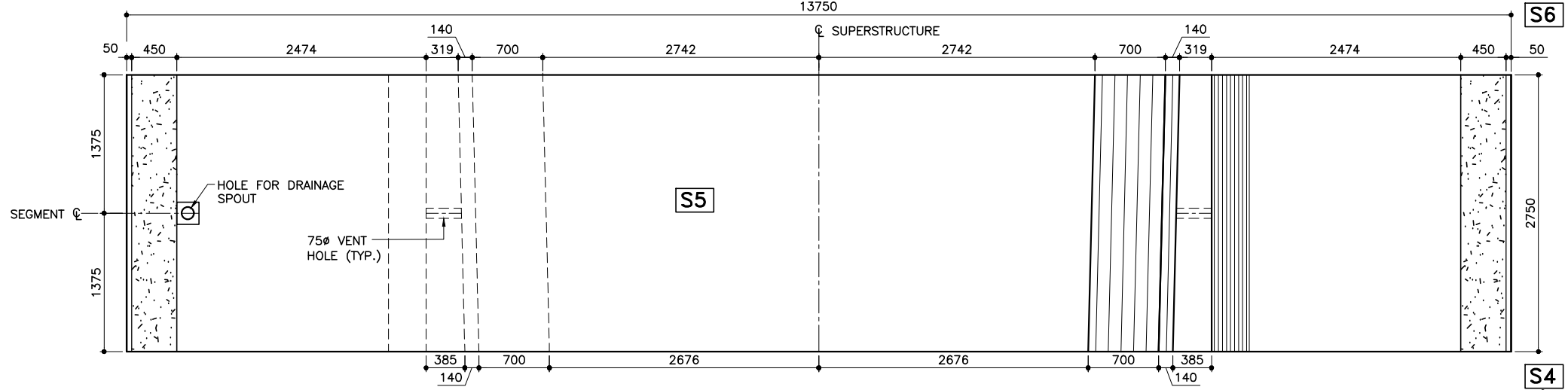
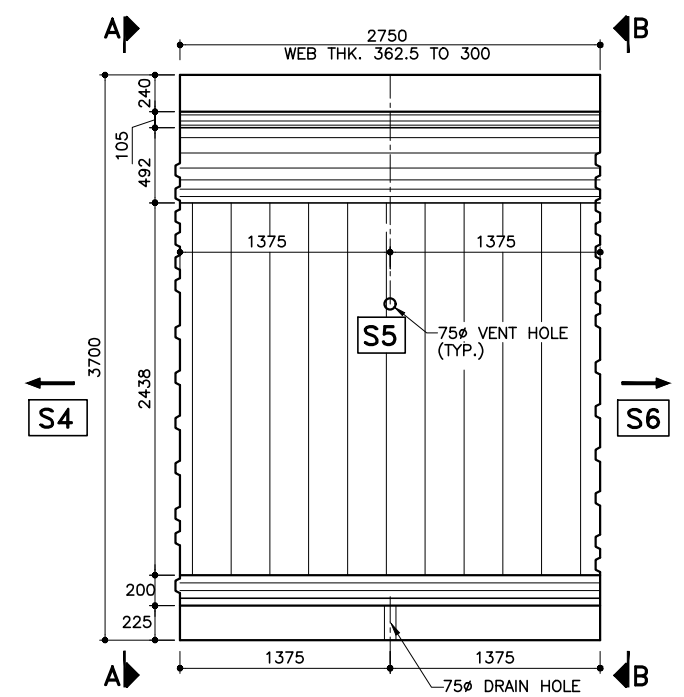
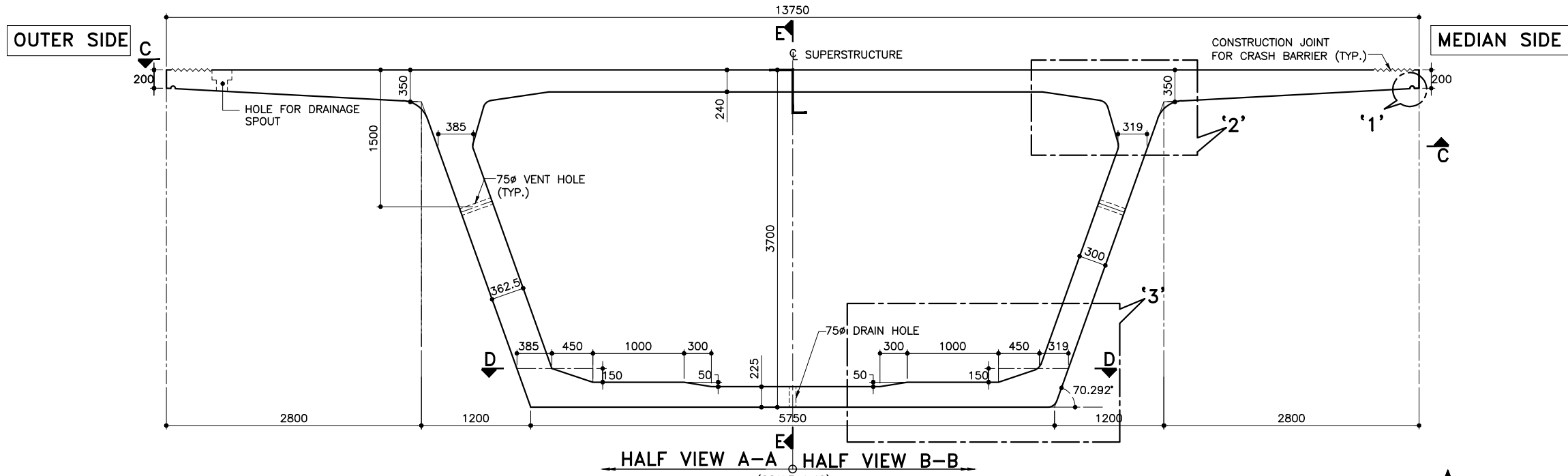
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DRAWN	S.Nirmaikar
DESIGNED	Neeraj
CHECKED	Satyam
APPROVED	S.Jain
ISSUED	A.Bhowmick
SCALE:	AS SHOWN
DATE:	02.03.2023

TITLE:
DIMENSIONAL DETAILS OF PRECAST SEGMENT S4 FOR 65M SPAN (STRAIGHT MODULE)

DRG. NO:
BSEC/2104/ EV/122+205/SD-110

REV:
RA



NOTES:

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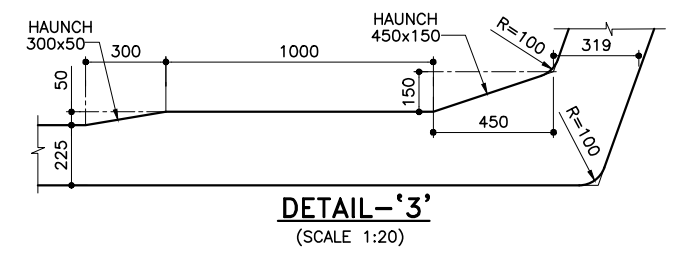
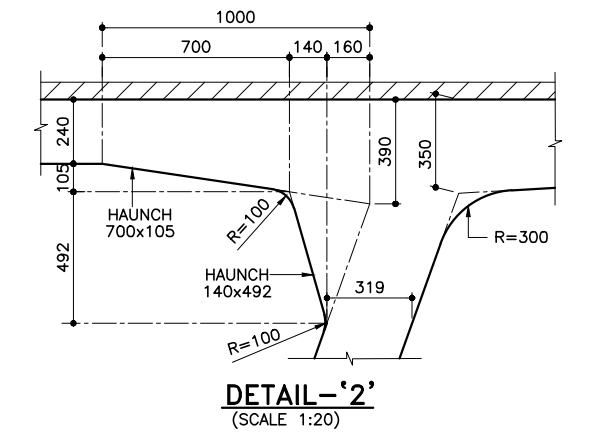
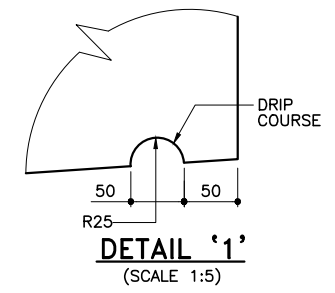
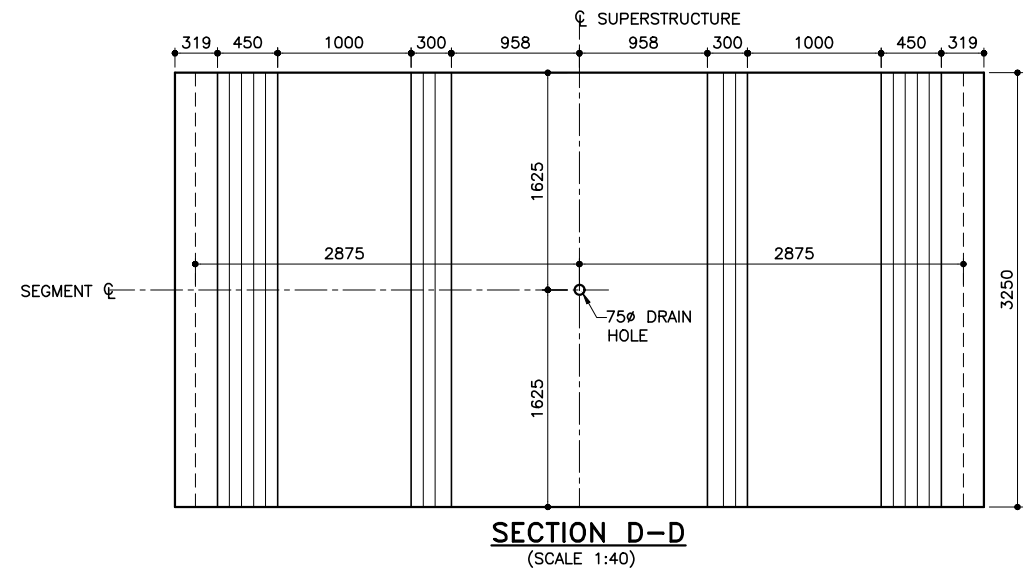
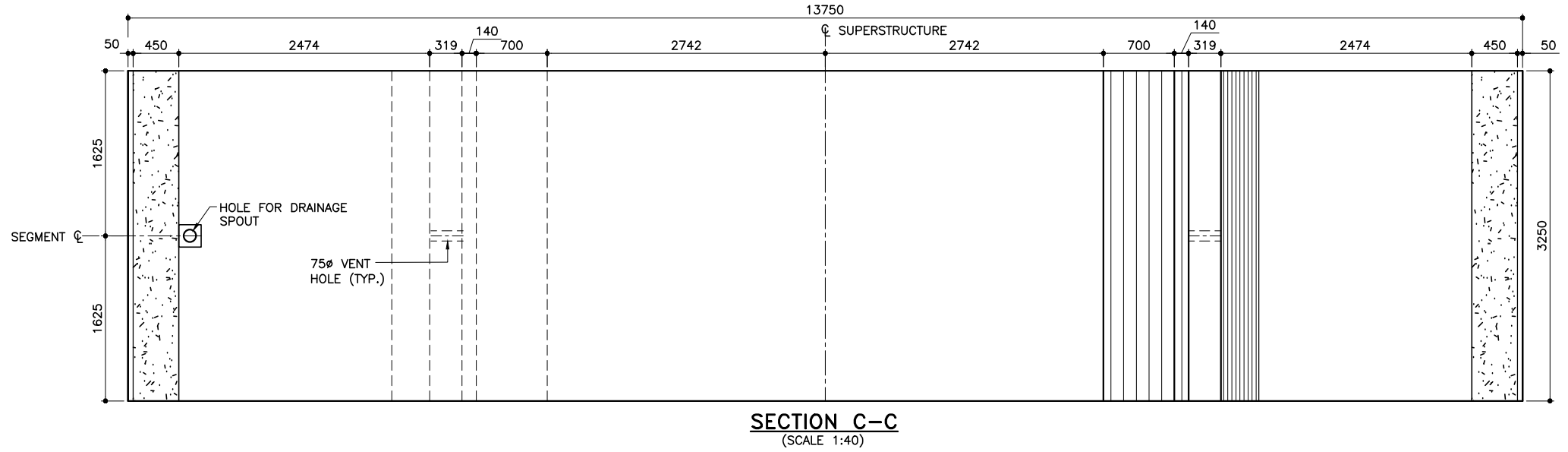
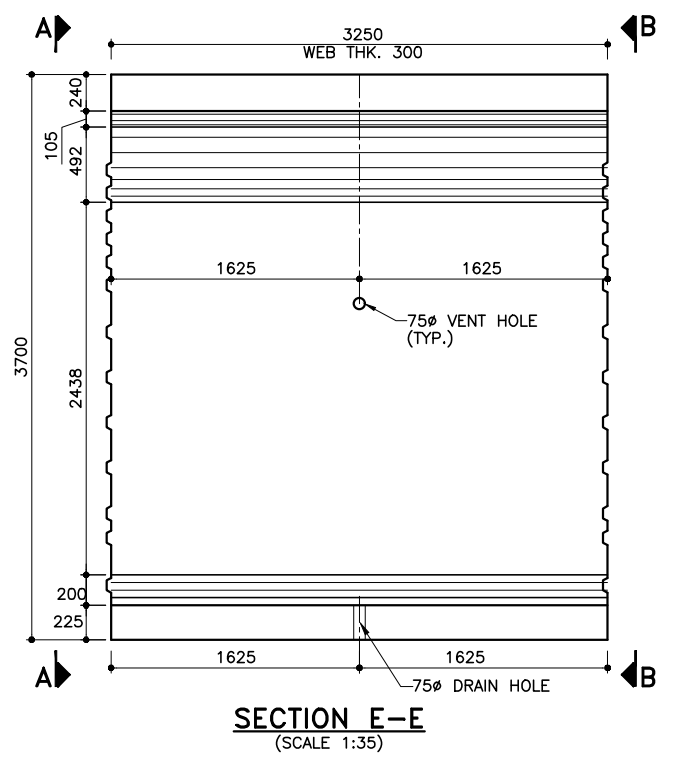
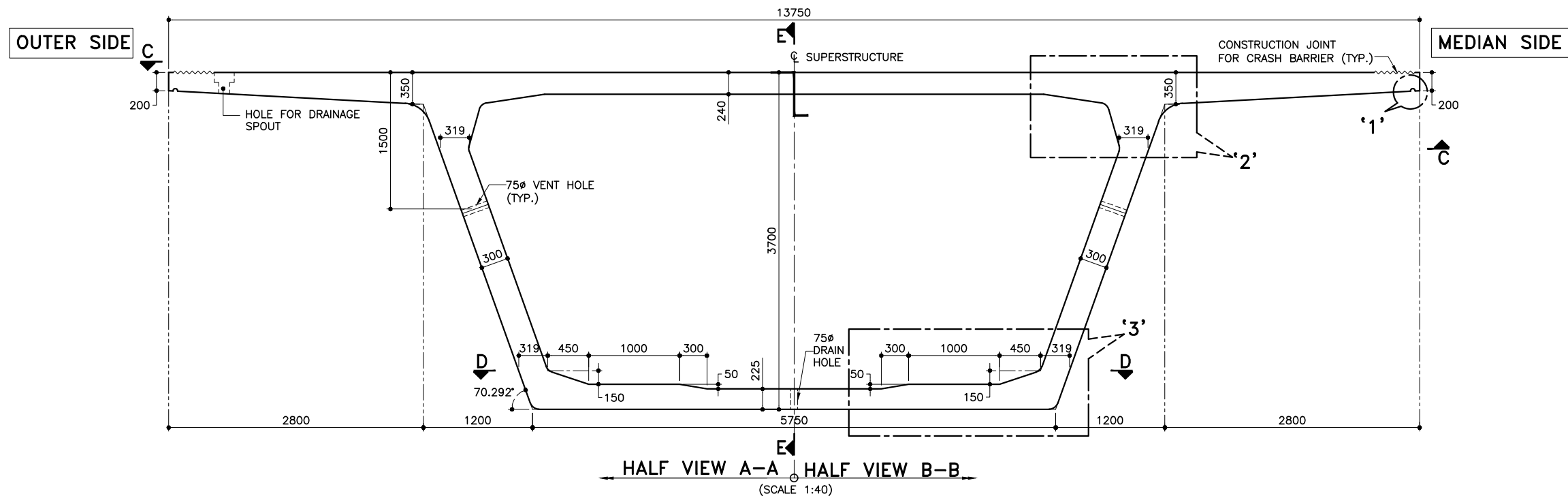
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DESIGNED	Neeraj
CHECKED	Satyam
APPROVED	S.Jain
ISSUED	A.Bhowmick
SCALE:	AS SHOWN
DATE:	02.03.2023

TITLE:
DIMENSIONAL DETAILS OF PRECAST SEGMENT S5 FOR 65M SPAN (STRAIGHT MODULE)

DRG. NO:
BSEC/2104/ EV/122+205/SD-111

REV:
RA



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2. BSEC/2104/EV/122+205/SD-103 TO 105 — PRESTRESSING DETAILS OF SUPERSTRUCTURE FOR 65M SPAN (STRAIGHT MODULE)
3. BSEC/2104/EV/122+205/SD-113 TO 115 — DETAILS OF SHEAR KEY OF SUPERSTRUCTURE FOR 65M SPAN

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PROJECT:
CONSTRUCTION OF 4 LANE BANGALORE CHENNAI EXPRESSWAY FROM 96+000 TO 127+000 KM (BAIREDDYPALLE TO BANGARUPALEM SECTION) IN STATE OF ANDHRA PRADESH UNDER BHARATMALA ON HYBRID ANNUITY MODE (PHASE II-PACKAGE II)

CLIENT:
NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways Government of India)

INDEPENDENT ENGINEER:
SATRA INFRASTRUCTURE MANAGEMENT SERVICES PVT LTD

OFFICE:
OFFICE NO.23 SATKAR BUILDING 79-80, 2ND FLOOR, NEHRU PLACE, NEW DELHI, DELHI 110019

CONCESSIONAIRE:
APCO TIRUMALA EXPRESSWAY PVT.LTD.
(A SPV for Development of Bangalore- Chennai Expressway -Package-02)

CONTRACTOR:
APCO INFRA TECH PVT. LTD.
Universal Trade Tower, 4th Floor, Sector - 49, Sohna Road, Gurgaon-122101

STRUCTURAL DESIGN CONSULTANTS:
B&S ENGINEERING CONSULTANTS PVT. LTD.
315-316 VISHAL CHAMBERS, P-1, SECTOR-18, NOIDA, (U.P) 201301, Tel: 0120-4570703, 4310433
email: admin@bsecp.in, Website: www.bsecp.in

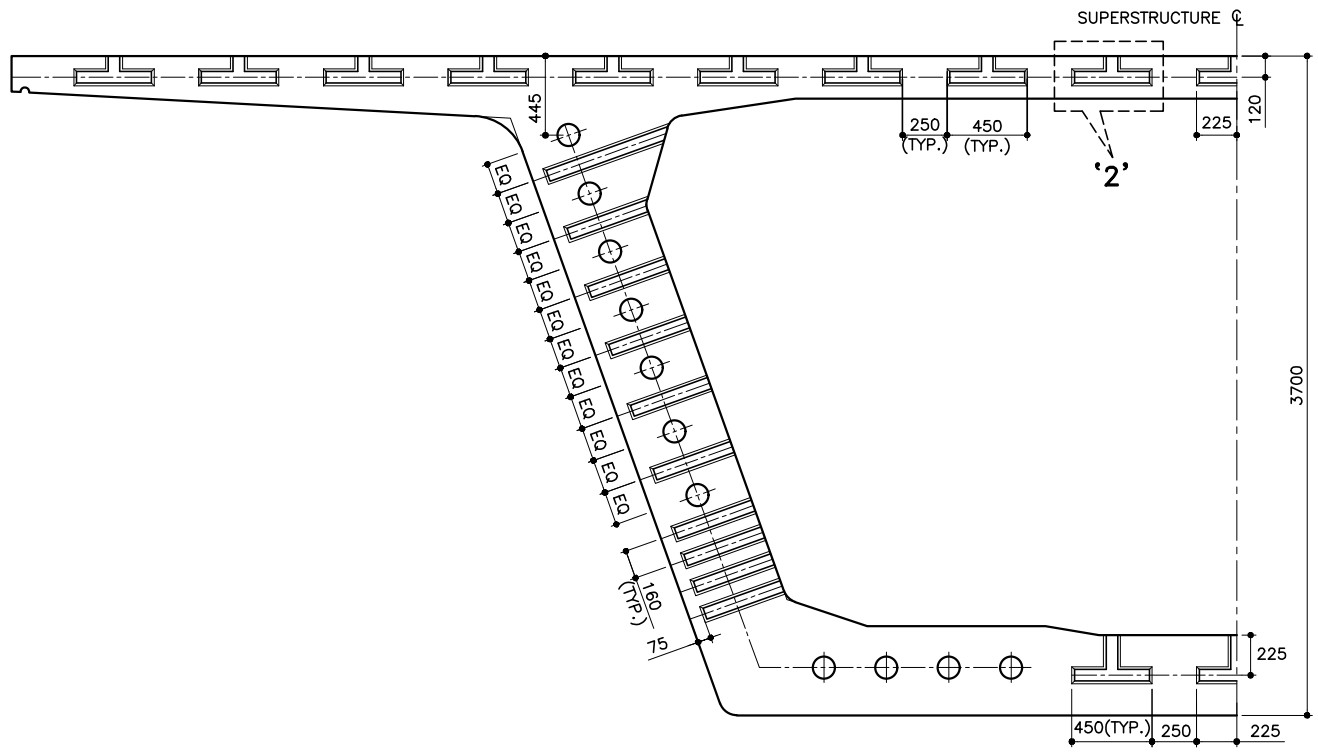
HIGHWAY DESIGN CONSULTANTS:
S.A.TECH
Regd. Office : 9/1, PUNJABI BAGH EXTENSION NEW DELHI - 110026 Office : INSTA OFFICE, GROUND FLOOR, 25-B, SECTOR-32 GURGAON-122001

DRAWN	S.Nirmalkar
DESIGNED	Neeraj
CHECKED	Satyam
APPROVED	S.Jain
ISSUED	A.Bhowmick
SCALE:	AS SHOWN
DATE:	02.03.2023

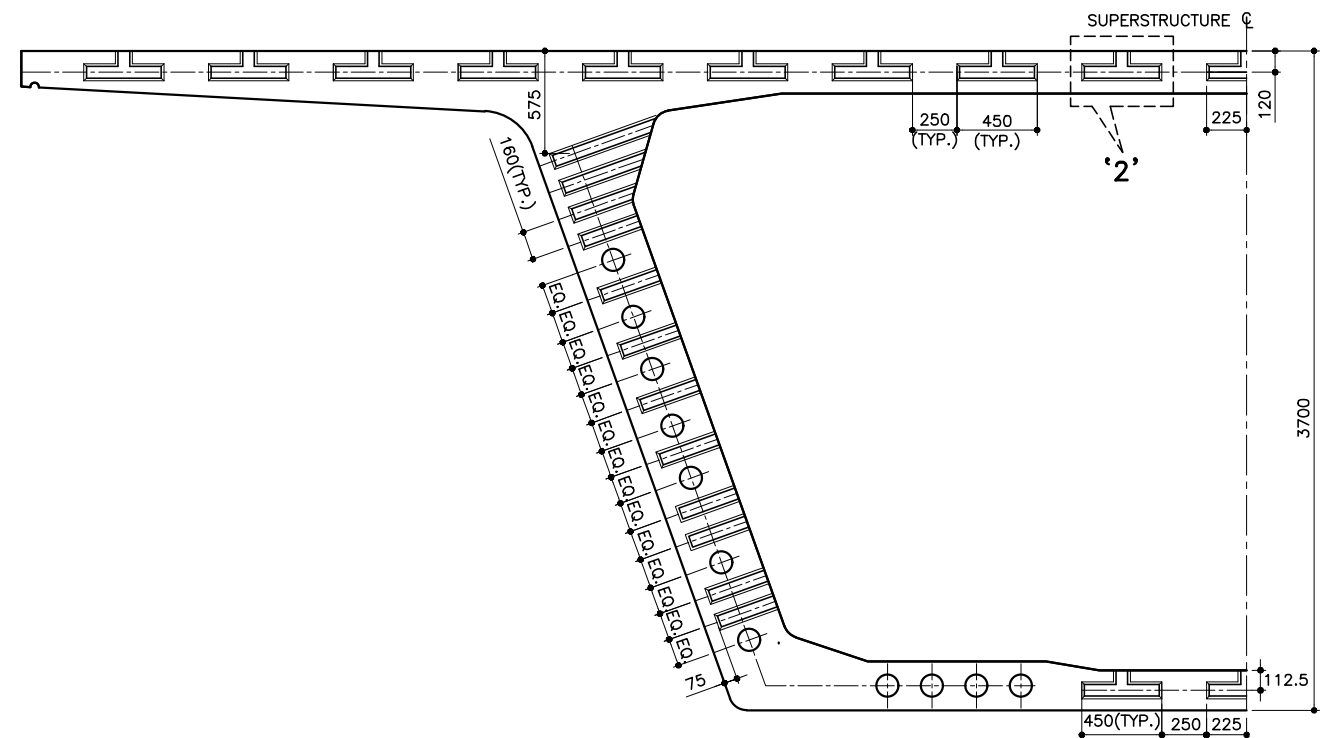
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DRG. NO:
BSEC/2104/EV/122+205/SD-112

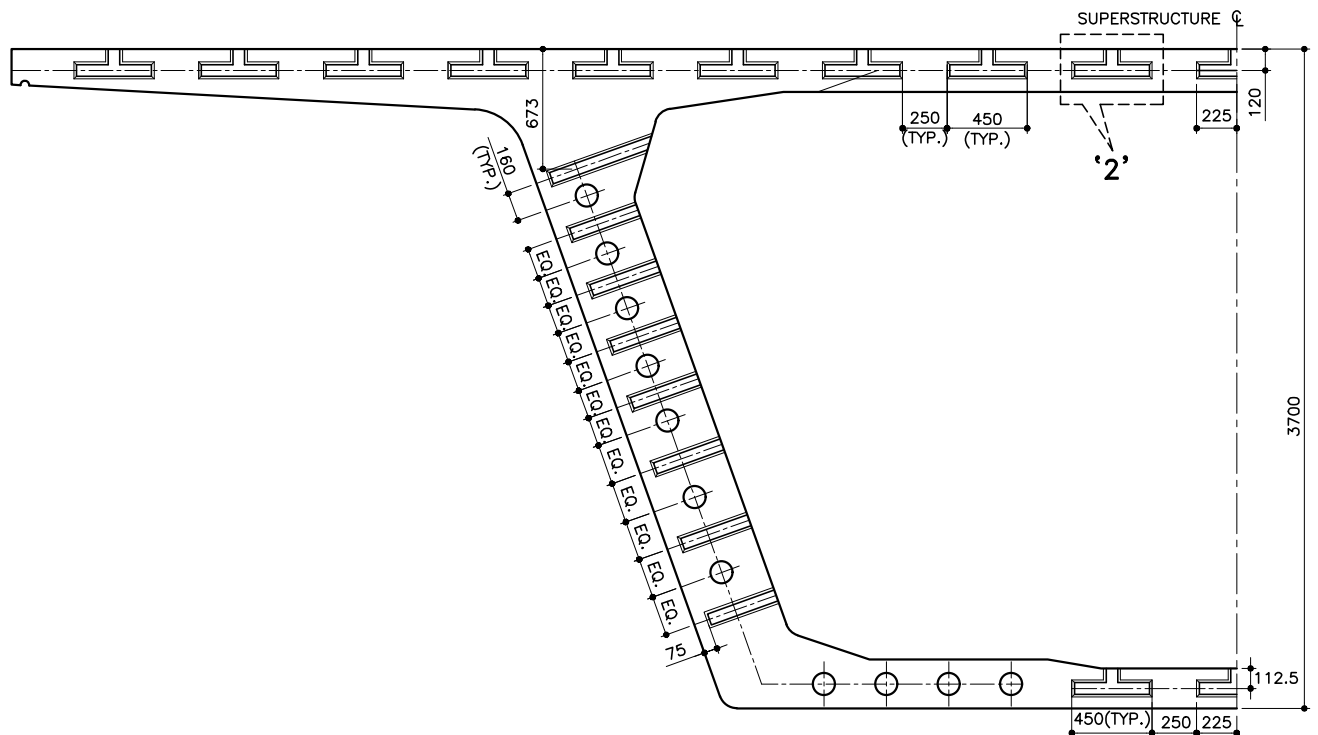
REV:
RA



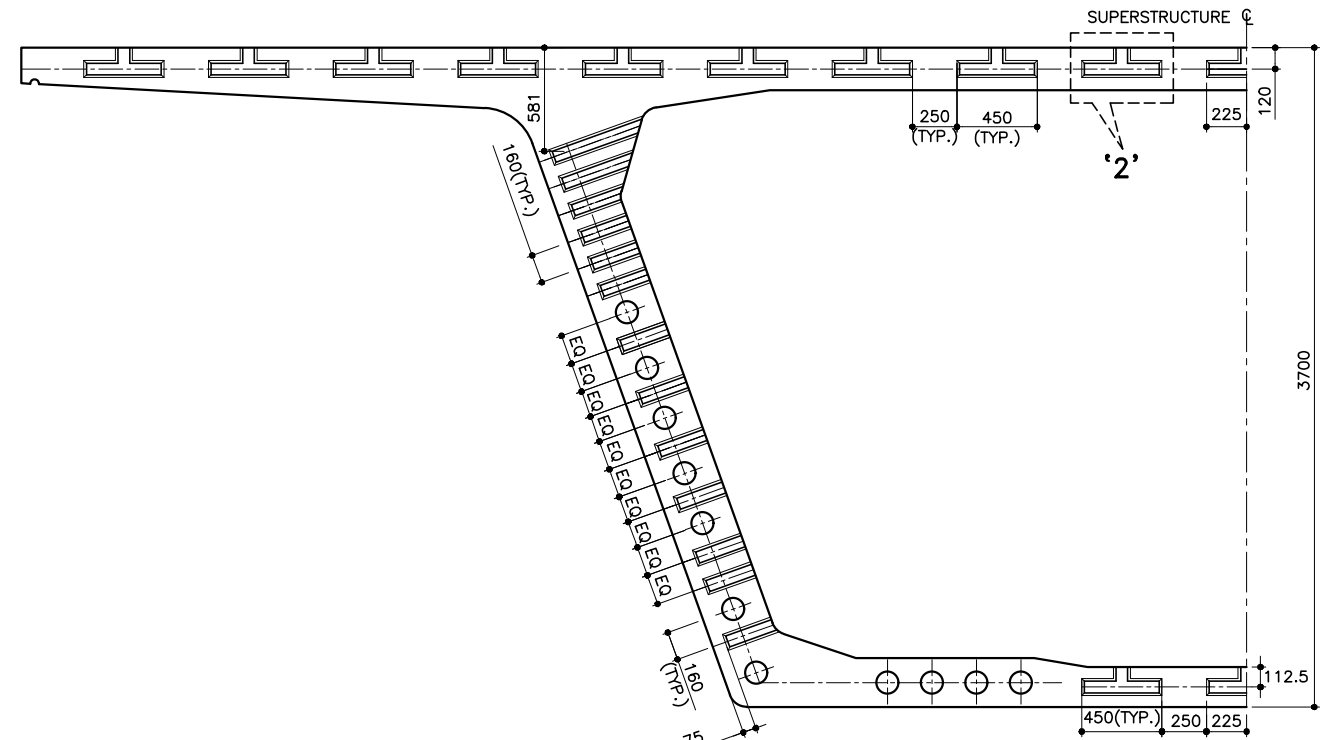
SHOWING SHEAR KEY BETWEEN S1E/S1C & S2
(SCALE 1:30)



SHOWING SHEAR KEY BETWEEN S3 & S4
(SCALE 1:30)



SHOWING SHEAR KEY BETWEEN S2 & S3
(SCALE 1:30)



SHOWING SHEAR KEY BETWEEN S4 & S5
(SCALE 1:30)

NOTES:

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SATRA INFRASTRUCTURE MANAGEMENT SERVICES PVT LTD

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GROUND FLOOR, 25-B, SECTOR-32
GURGAON-122001

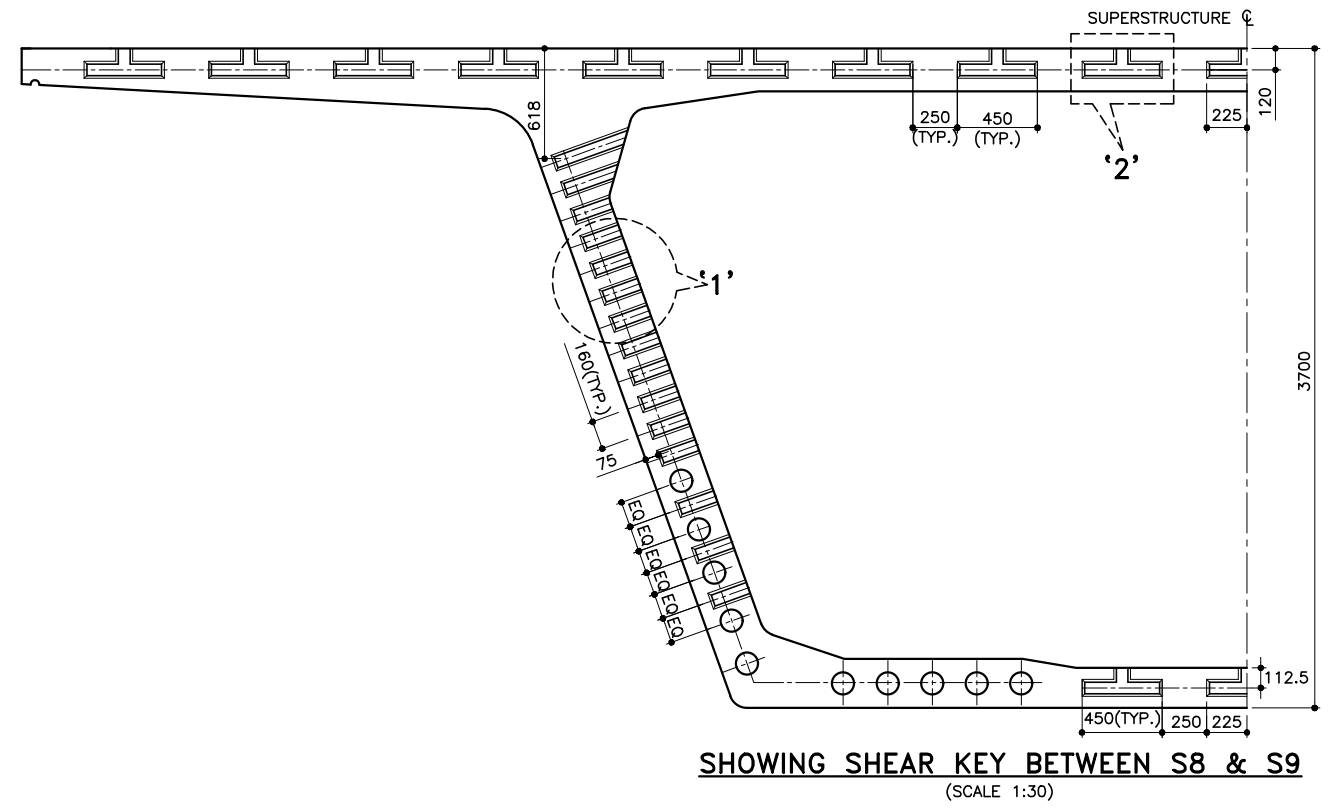
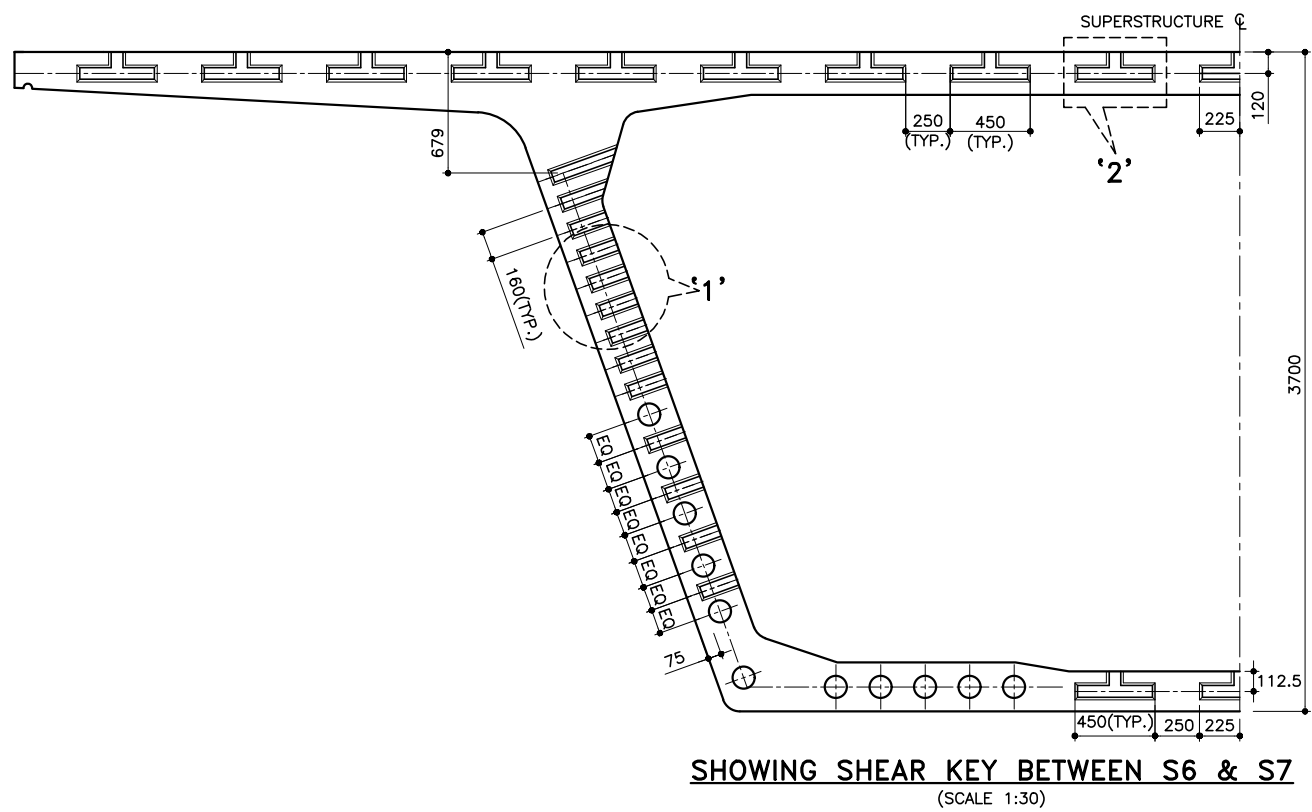
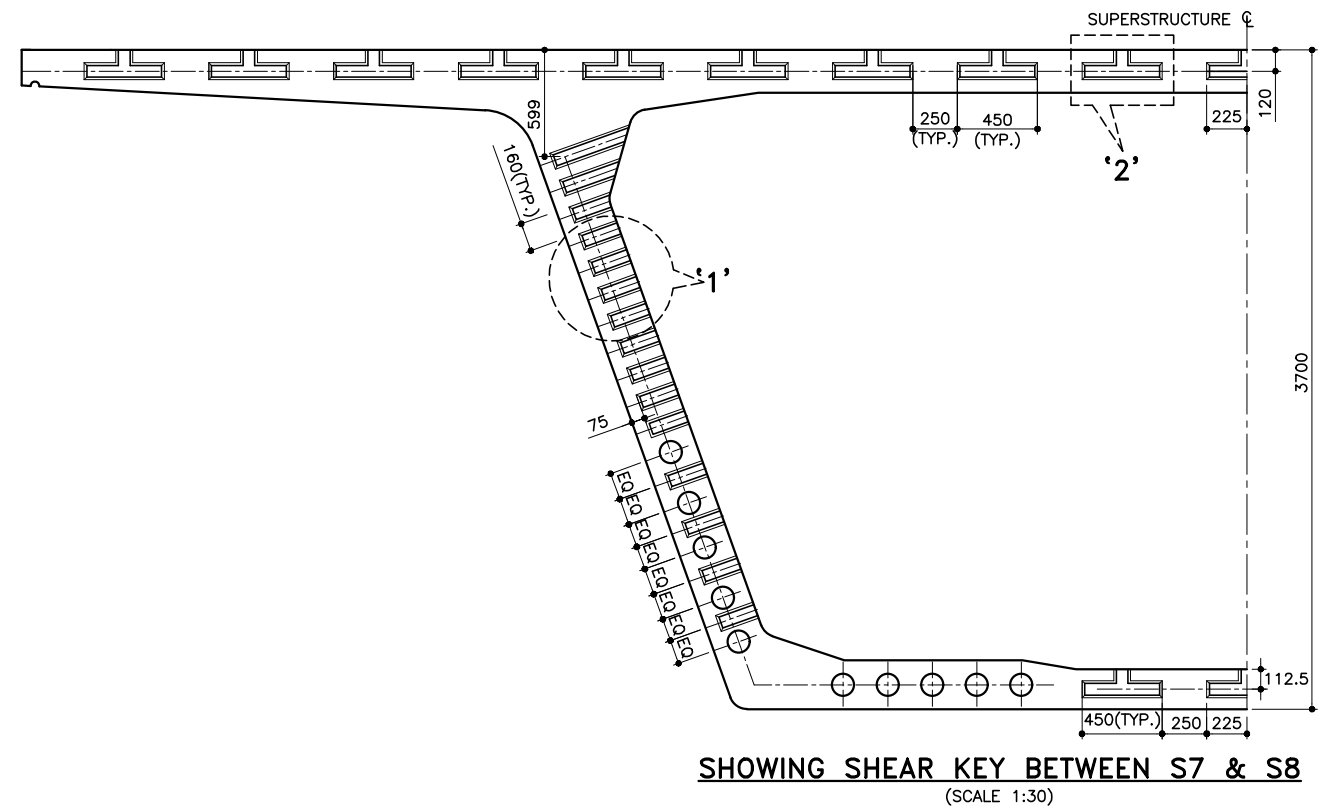
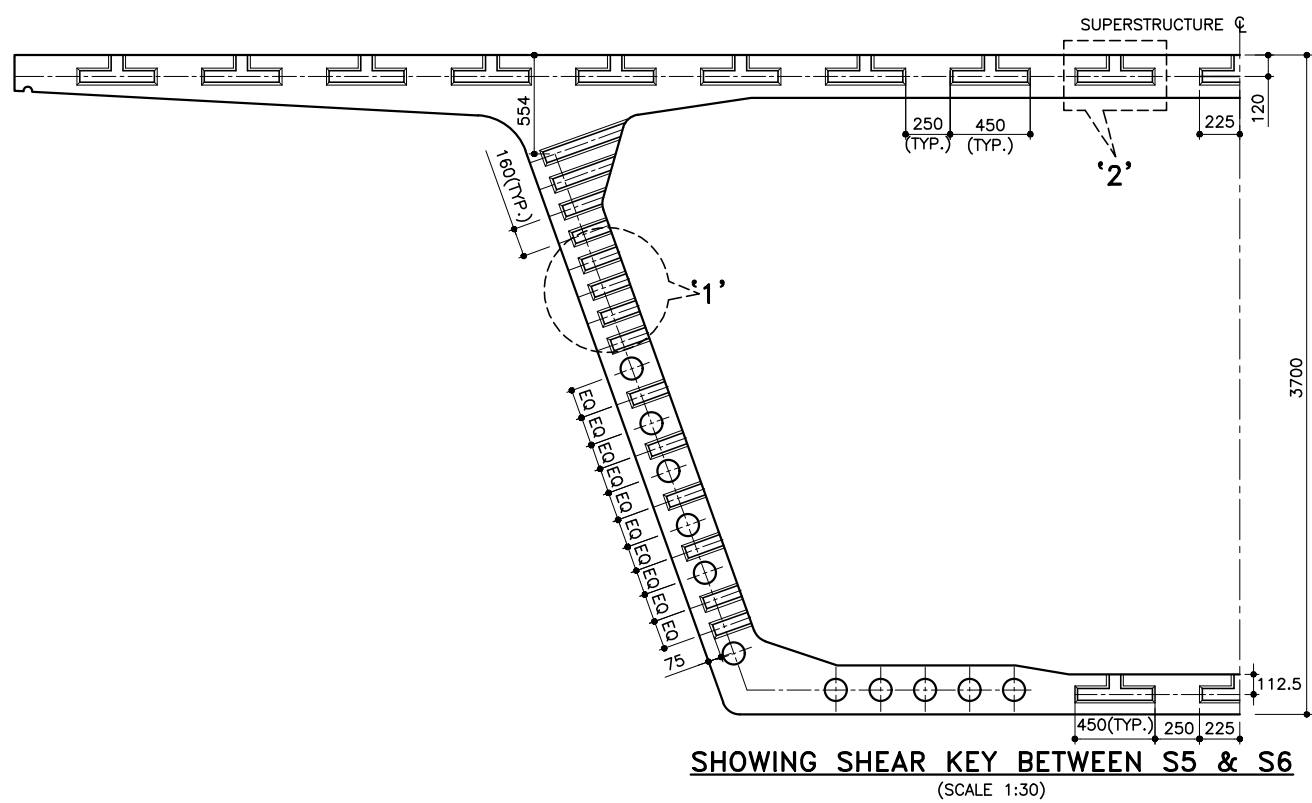
DRAWN	S.Nirmalkar
DESIGNED	Neeraj
CHECKED	Satyam
APPROVED	S.Jain
ISSUED	A.Bhowmick
SCALE:	AS SHOWN
DATE:	02.03.2023

TITLE:
DETAILS OF SHEAR KEY OF SUPERSTRUCTURE FOR 65M SPAN

DRG. NO:
BSEC/2104/EV/122+205/SD-113

REV:
RA

(SHEET 1 OF 3)



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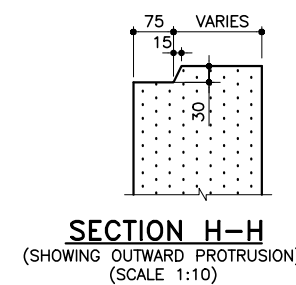
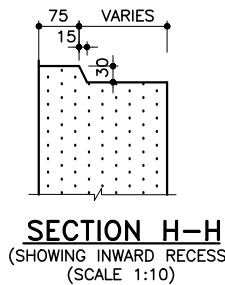
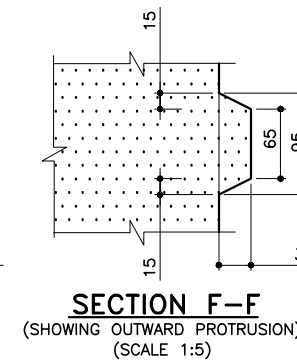
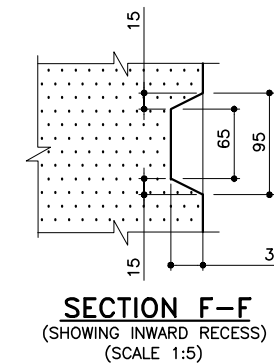
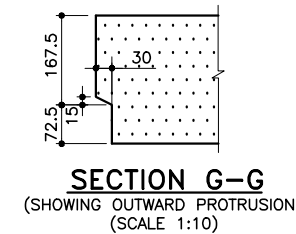
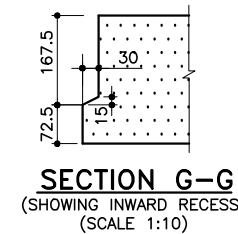
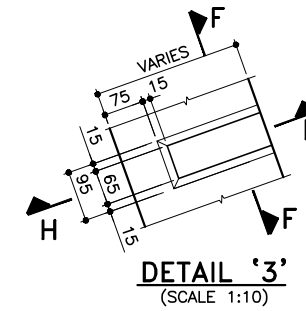
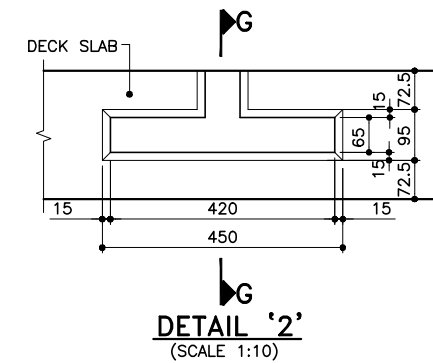
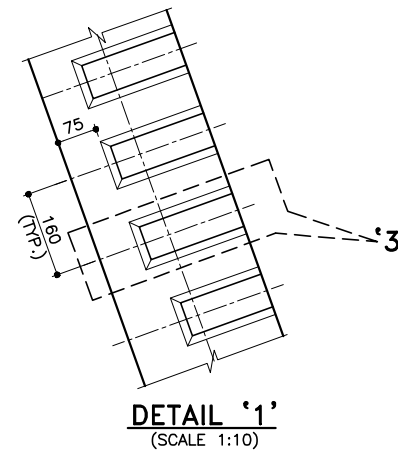
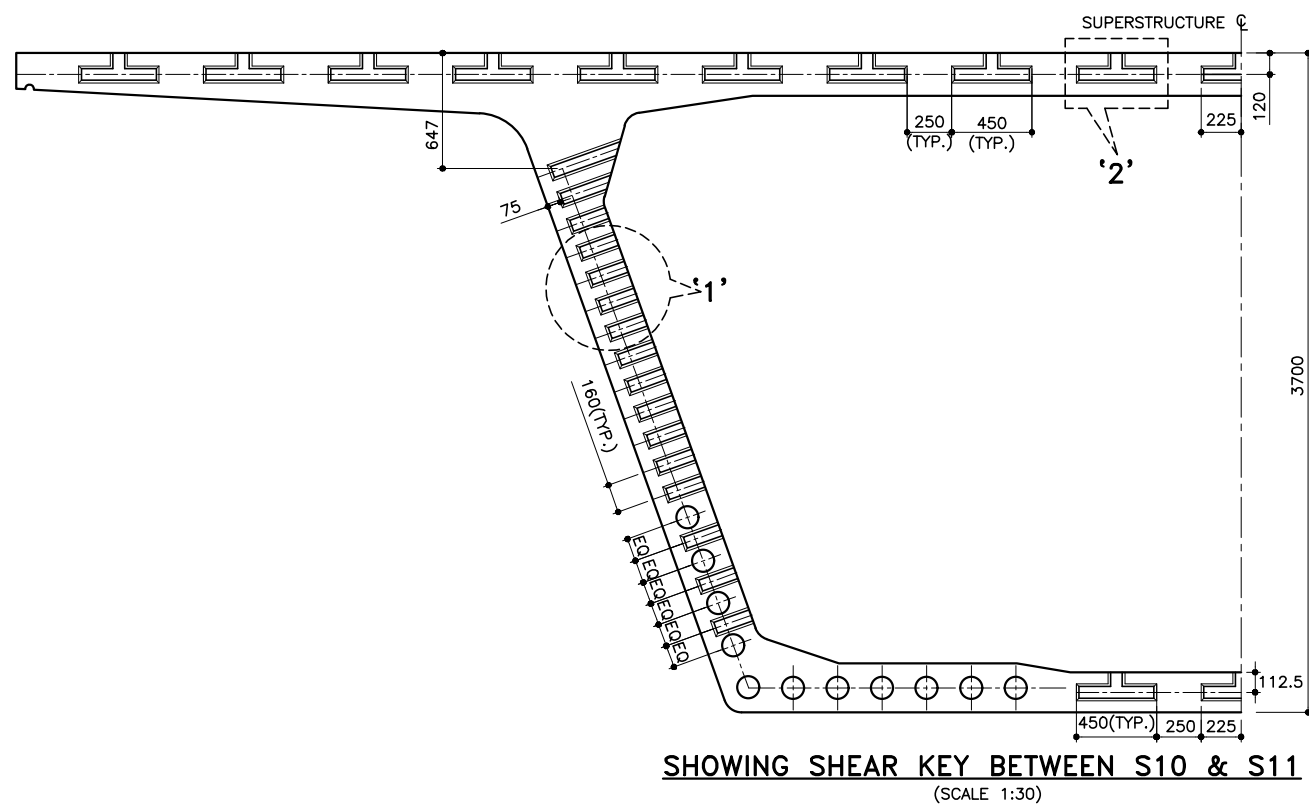
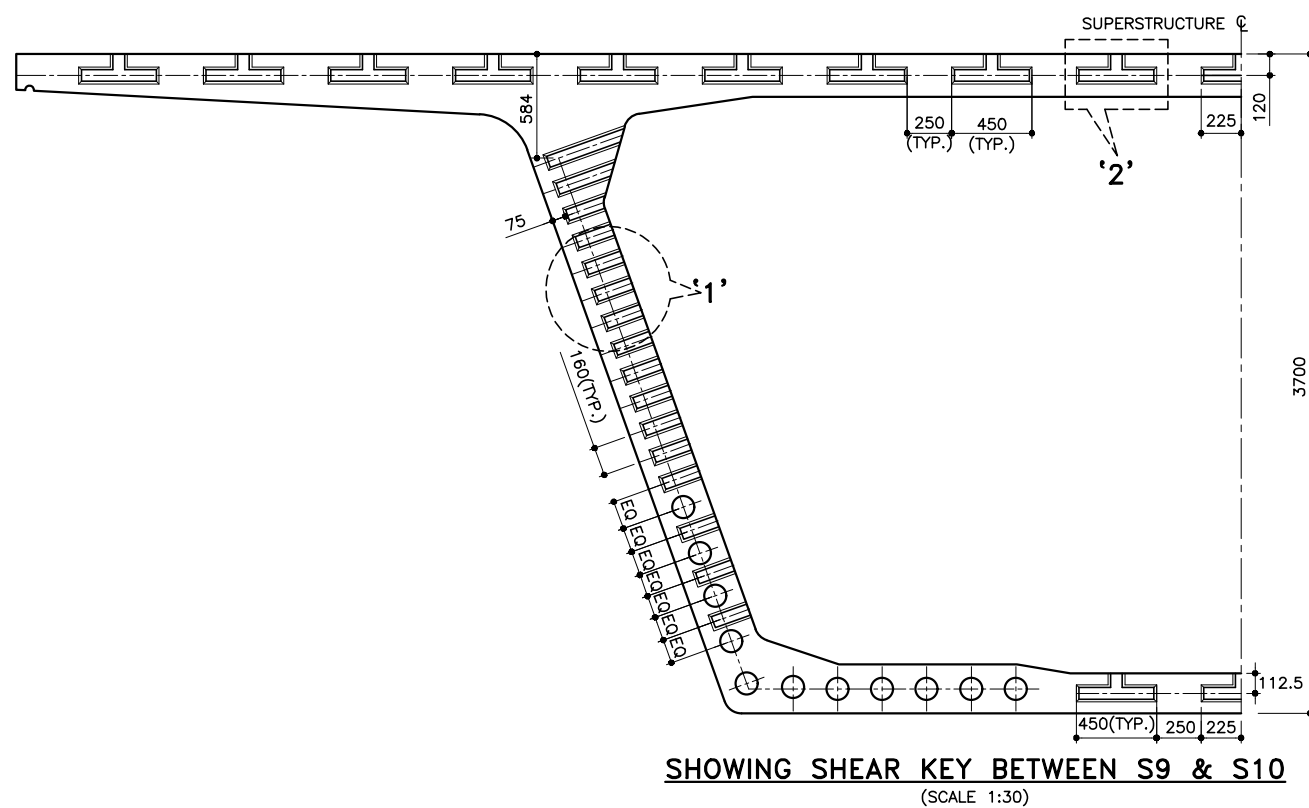
DRAWN	S.Nirmalkar
DESIGNED	Neeraj
CHECKED	Satyam
APPROVED	S.Jain
ISSUED	A.Bhowmick
SCALE:	AS SHOWN
DATE:	02.03.2023

TITLE:
DETAILS OF SHEAR KEY OF SUPERSTRUCTURE FOR 65M SPAN

DRG. NO:
BSEC/2104/EV/122+205/SD-114

REV:
RA

(SHEET 2 OF 3)



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3. BSEC/2104/EV/122+205/SD-106 — DIMENSIONAL DETAILS OF PRECAST SEGMENT S1E FOR 65M SPAN (STRAIGHT MODULE)
4. BSEC/2104/EV/122+205/SD-107 — DIMENSIONAL DETAILS OF PRECAST SEGMENT S1C FOR 65M SPAN (STRAIGHT MODULE)
5. BSEC/2104/EV/122+205/SD-108 — DIMENSIONAL DETAILS OF PRECAST SEGMENT S2 FOR 65M SPAN (STRAIGHT MODULE)
6. BSEC/2104/EV/122+205/SD-109 — DIMENSIONAL DETAILS OF PRECAST SEGMENT S3 FOR 65M SPAN (STRAIGHT MODULE)
7. BSEC/2104/EV/122+205/SD-110 — DIMENSIONAL DETAILS OF PRECAST SEGMENT S4 FOR 65M SPAN (STRAIGHT MODULE)
8. BSEC/2104/EV/122+205/SD-111 — DIMENSIONAL DETAILS OF PRECAST SEGMENT S5 FOR 65M SPAN (STRAIGHT MODULE)
9. BSEC/2104/EV/122+205/SD-112 — DIMENSIONAL DETAILS OF PRECAST SEGMENT S6 TO S11 FOR 65M SPAN (STRAIGHT MODULE)

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OFFICE: 315-316 VISHAL CHAMBERS, P-1, SECTOR-18, NOIDA, (U.P) 201301, Tel: 0120-4570703, 4310433
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CHECKED	Satyam
APPROVED	S.Jain
ISSUED	A.Bhowmick
SCALE:	AS SHOWN
DATE:	02.03.2023

TITLE:
DETAILS OF SHEAR KEY OF SUPERSTRUCTURE FOR 65M SPAN

DRG. NO: **BSEC/2104/EV/122+205/SD-115**

REV: **RA**

(SHEET 3 OF 3)