

CLIENT:



MINISTRY OF PUBLIC WORKS



STATE OF KUWAIT

PROJECT:

STUDY, DESIGN AND CONSTRUCTION SUPERVISION FOR CONSTRUCTION AND MAINTENANCE OF
REGIONAL ROAD SOUTH PART (SECTION -2) AGREEMENT NO. EF/R/193
DESIGN OF NEW AIRPORT INTERCHANGES FOR THE KUWAIT INTERNATIONAL AIRPORT TERMINAL II
VARIATION ORDER NO. (2) CONTRACT NO. RA/268

DISCIPLINE:

STRUCTURE DESIGN DRAWINGS BOOK 5 OF 5

DRAWINGS:

1- BRIDGE NO. 10 STRUCTURE DESIGN DRAWINGS

CONSULTANT:



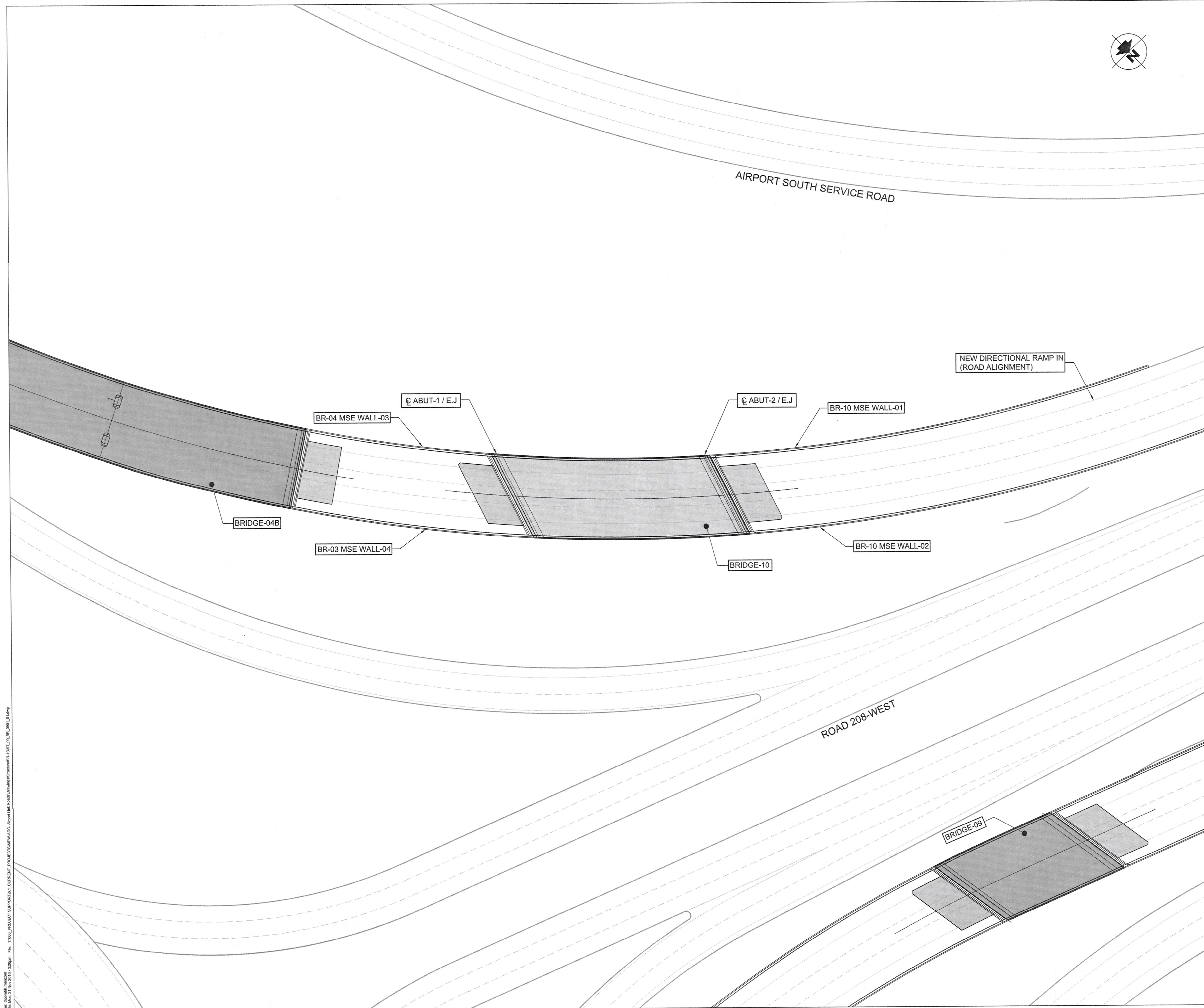
ORIENTAL CONSULTANTS GLOBAL
Global Consulting for Sustainable Development

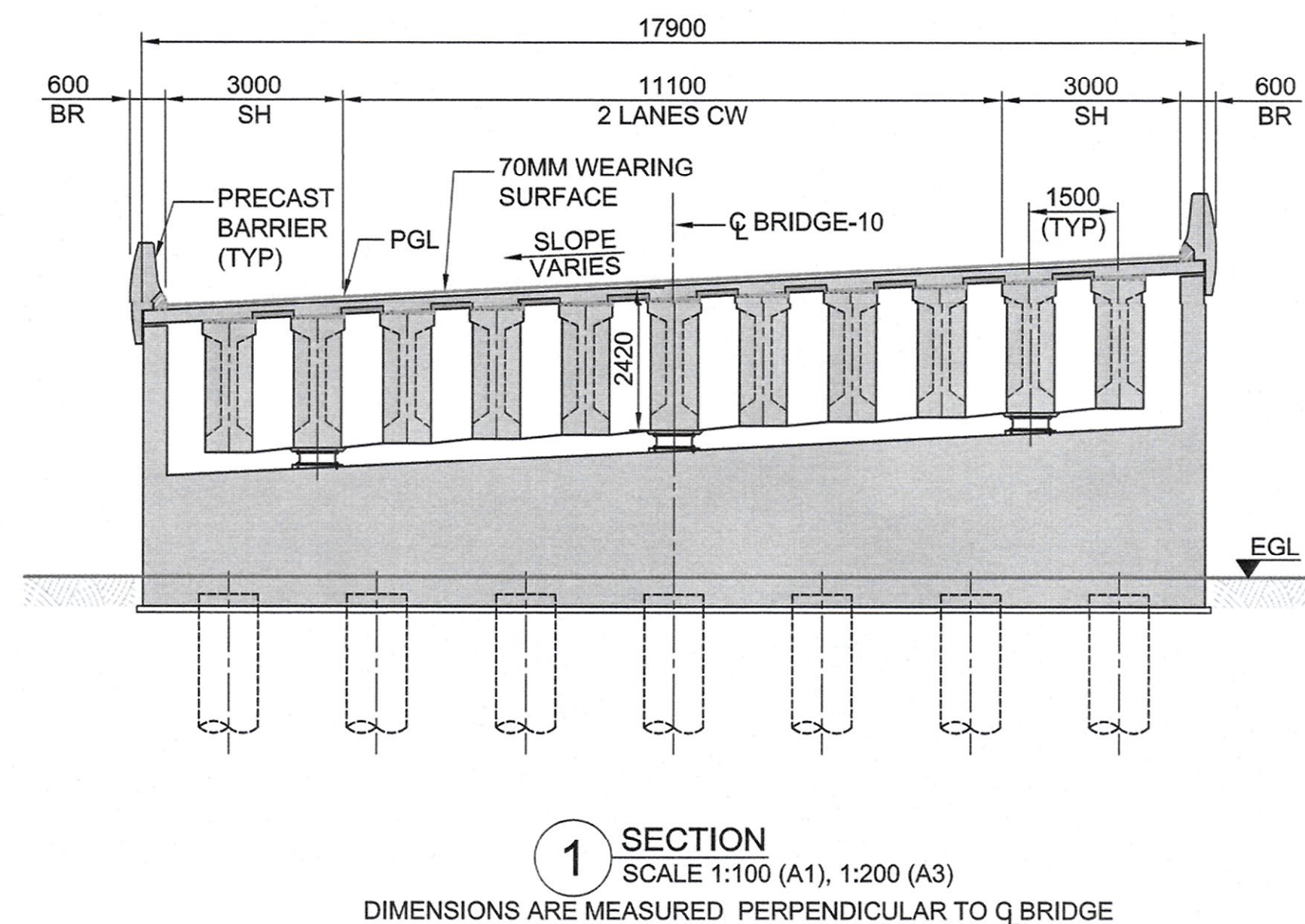
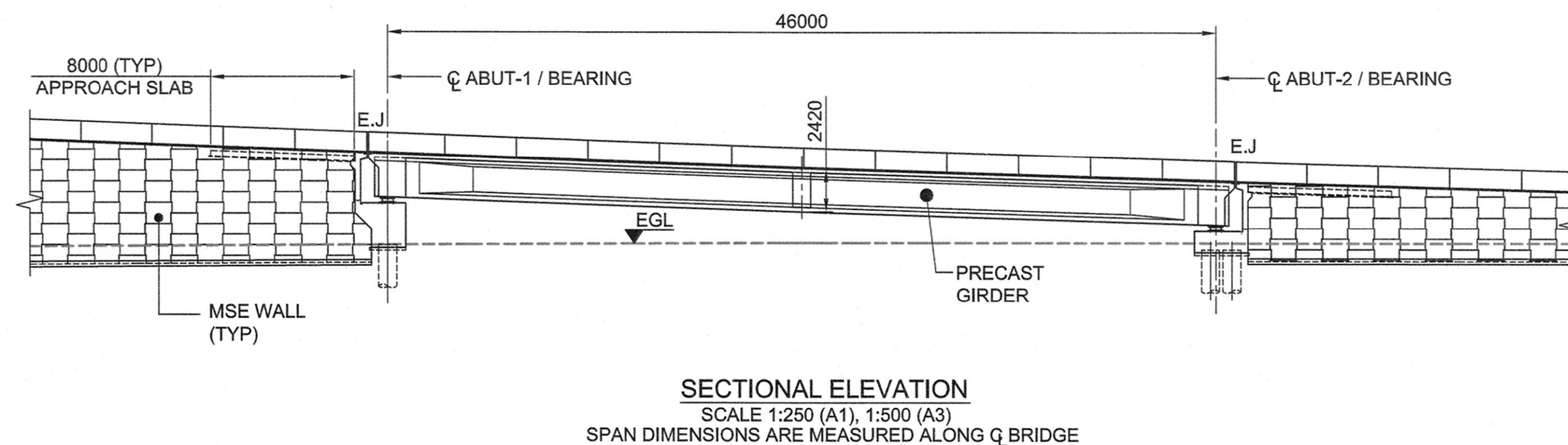
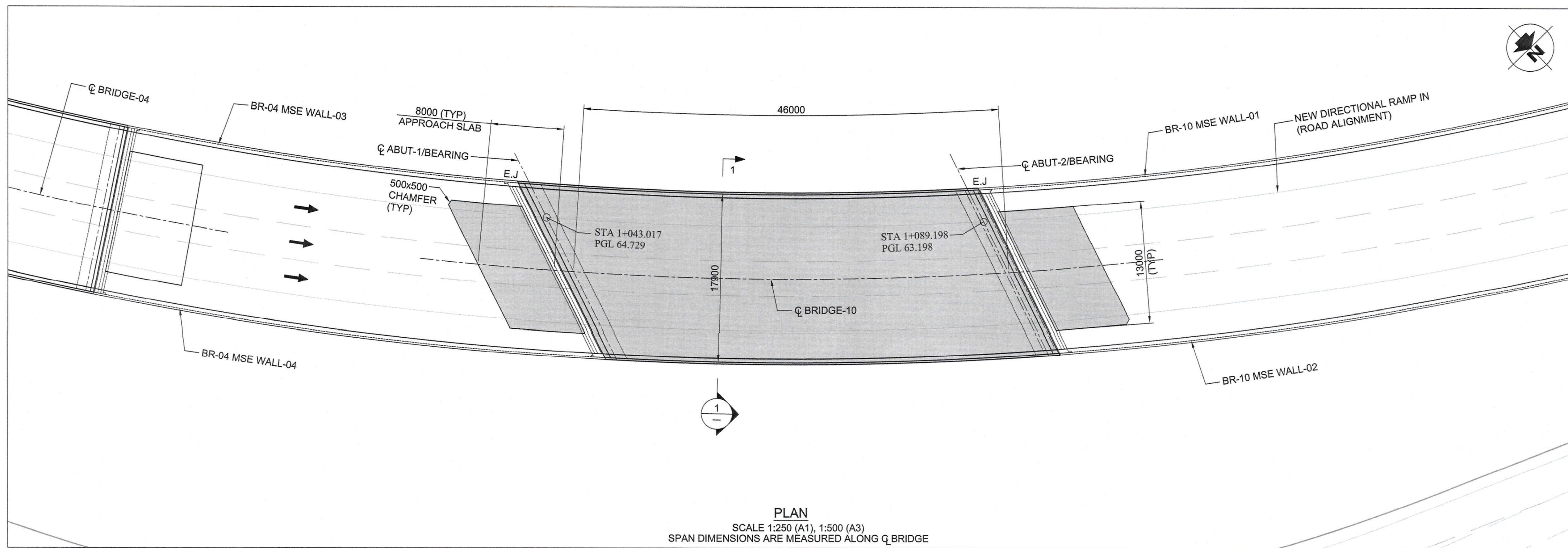



Dar Al-Dowailah
Engineering Consultants
& Construction Managers



LIMAK
İNŞAAT SANAYİ VE TİCARET A.Ş.
Hafız Sokak No: 5 G.O.P. ANKARA
Teli: 0312 446 88 00 / 10 Hat
Ankara Kurumlar Y.D. 608009244









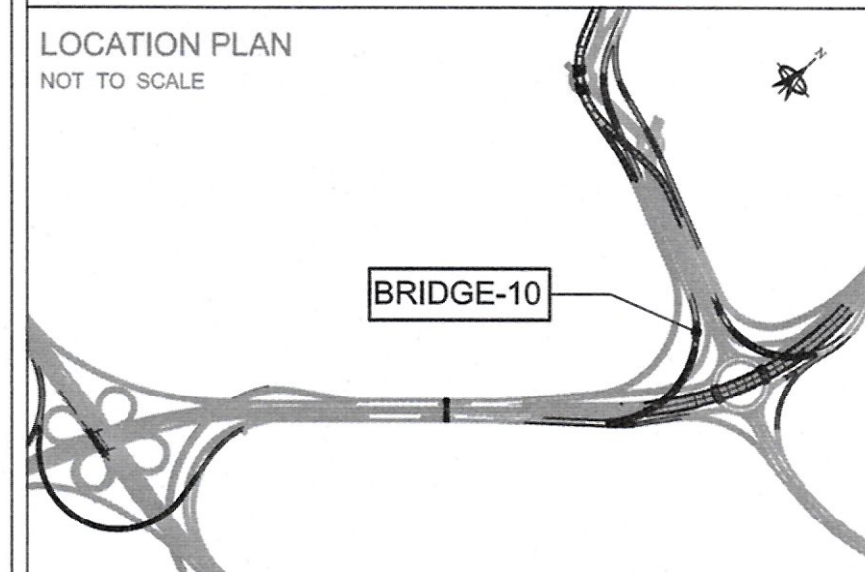
STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:
Construction, Developing And Maintenance Of Roads And Interchanges For New Terminal Building In Kuwait International Airport At Magwa Road RA268/

CONSULTANT:
 **ORIENTAL CONSULTANTS**
COMPANY LIMITED

IN ASSOCIATION WITH:
 **Dar Al-Dowailah**
Engineering Consultants & Construction Managers

LOCATION PLAN
NOT TO SCALE



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED; COORDINATES, LEVELS AND CHAINAGES ARE IN METERS.
- FRL'S AND DECK CROSS SLOPE SHALL BE VERIFIED WITH RELEVANT HIGHWAY DRAWINGS.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL NOTES, CONSTRUCTION SEQUENCE MISCELLANEOUS, HIGHWAY AND UTILITY DRAWINGS.
- DECK CROSS SLOPE SHOWN IS INDICATIVE ONLY.
- ALL SHOWN LEVELS SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AS PER EXISTING SITE CONDITIONS AND RELEVANT HIGHWAY DRAWINGS. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.

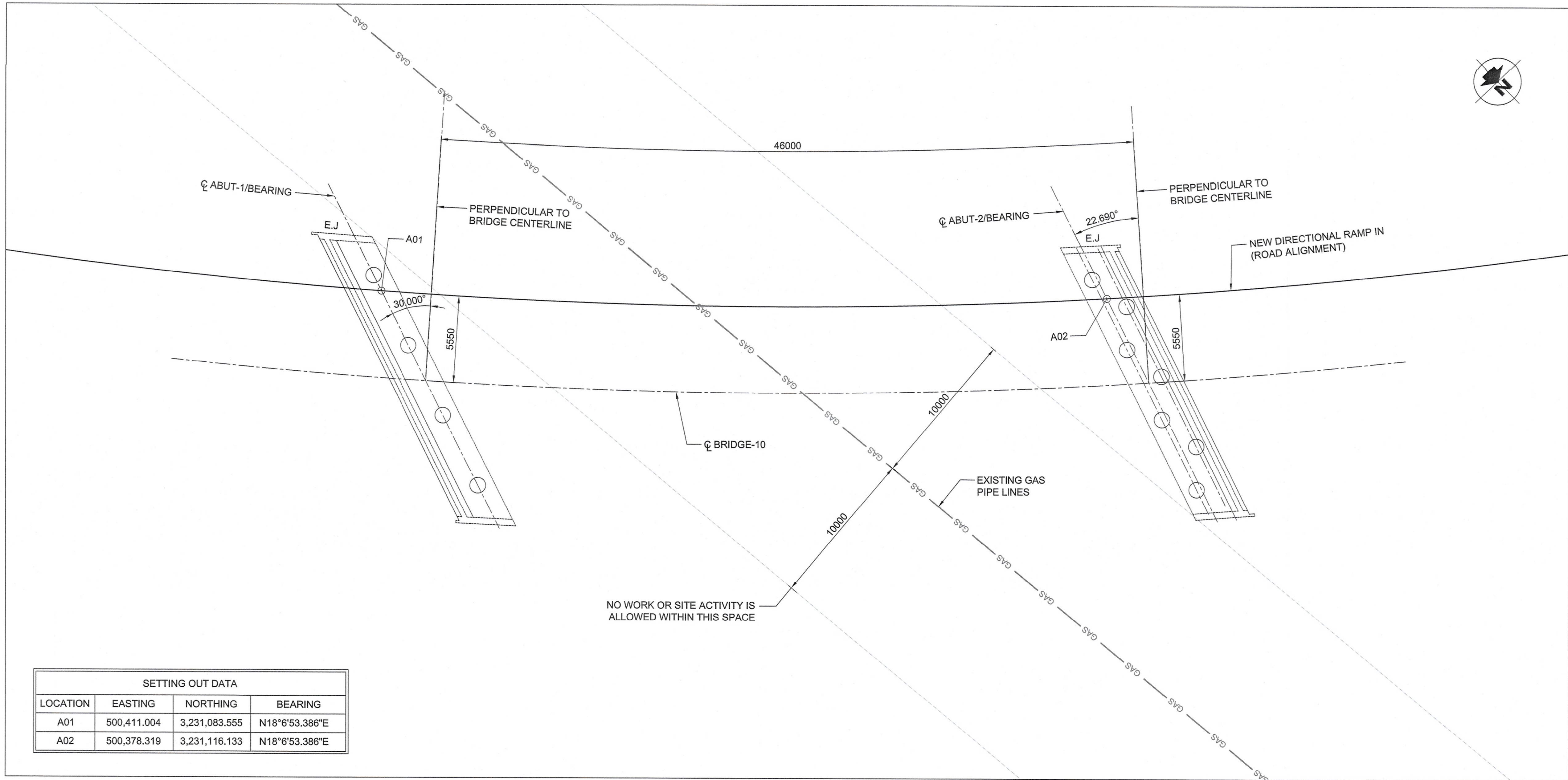
Rev. No.	Date	Description	By

DRAWING TITLE:
BRIDGE - 10
GENERAL ARRANGEMENT AND DETAILS

DRAWING NO: ST_00_BR_0911_01

DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	SBB	APPROVED BY:	AZ

\\nasir\hmd\hmd\work\0911_03.dwg File: T:\0911_03.dwg PROJECT: NEW BRIDGE AT MAGWA ROAD RA268/



SETTING OUT DATA			
LOCATION	EASTING	NORTHING	BEARING
A01	500,411.004	3,231,083.555	N18°6'53.386"E
A02	500,378.319	3,231,116.133	N18°6'53.386"E

FOUNDATION PLAN
SCALE 1:150 (A1), 1:250 (A3)

CLIENT:



STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And
Maintenance Of Roads And
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In Kuwait International Airport At
Magwa Road RA268/

CONSULTANT:



ORIENTAL CONSULTANTS
COMPANY LIMITED

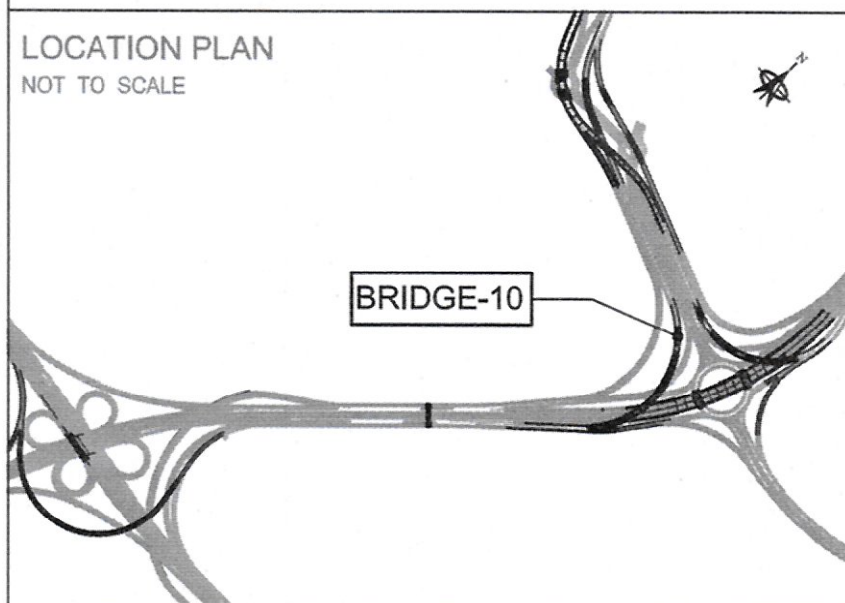
IN ASSOCIATION WITH:



Dar Al-Dowailah
Engineering Consultants
& Construction Managers

LOCATION PLAN

NOT TO SCALE



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS
OTHERWISE NOTED; COORDINATES, LEVELS AND
CHAINAGES ARE IN METERS.

Rev. No.	Date	Description	By
DRAWING TITLE:			
BRIDGE - 10 FOUNDATION PLAN & SETTING OUT DATA			
DRAWING NO: ST_00_BR_0911_03			
DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	SBB	APPROVED BY:	AZ

STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And
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Magwa Road RA268/

CONSULTANT:



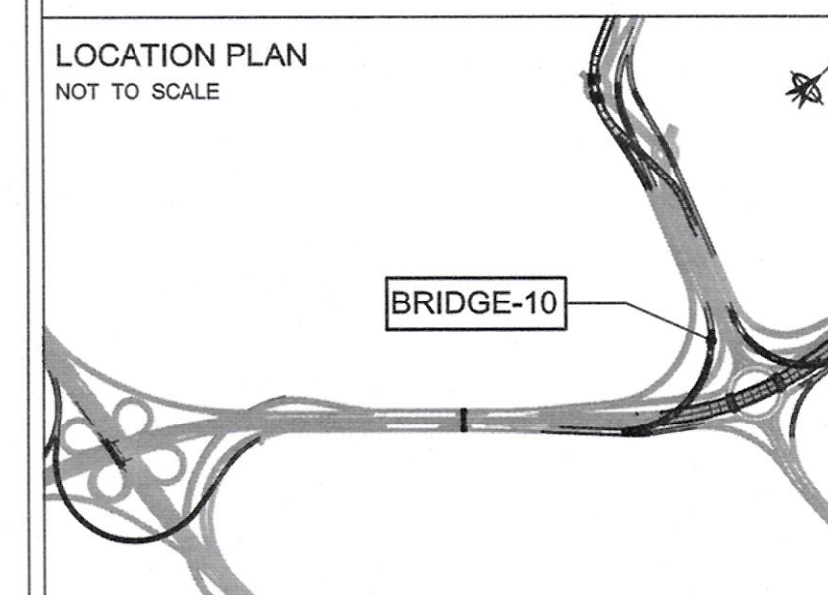
ORIENTAL CONSULTANTS
COMPANY LIMITED

IN ASSOCIATION WITH:



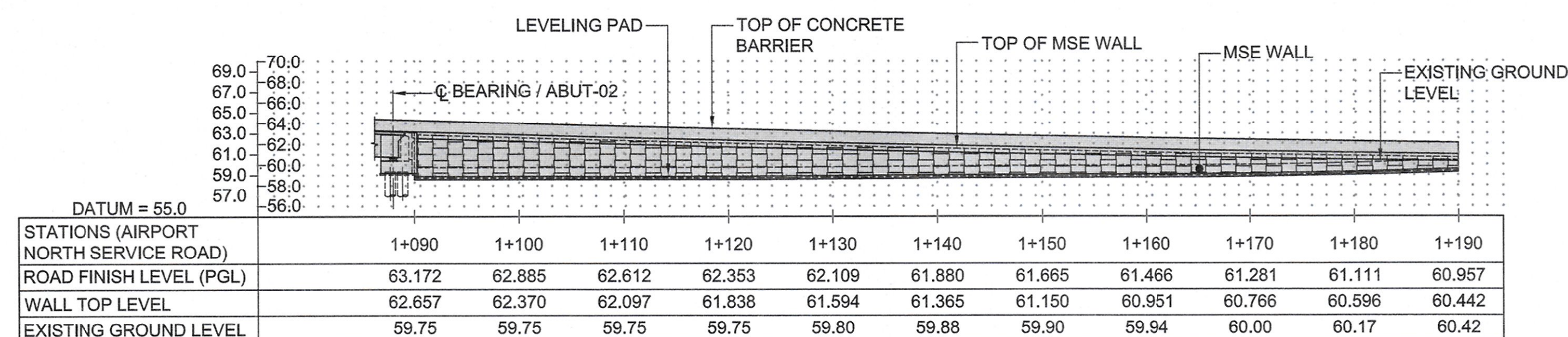
Dar Al-Dowailah
Engineering Consultants
& Construction Managers

LOCATION PLAN
NOT TO SCALE

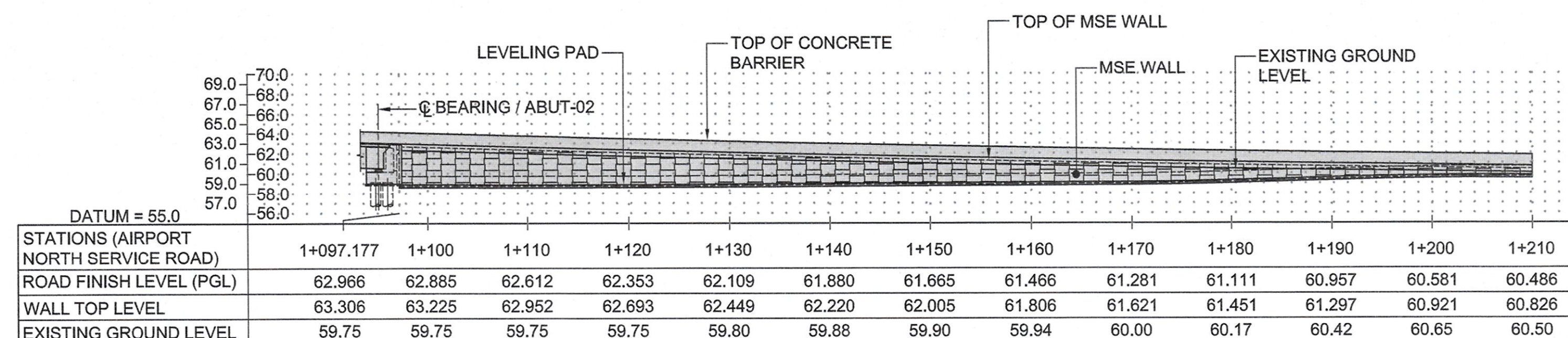


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED; COORDINATES, LEVELS AND CHAINAGES ARE IN METERS.
2. FRL'S AND DECK CROSS SLOPE SHALL BE VERIFIED WITH RELEVANT HIGHWAY DRAWINGS.
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL NOTES, MISCELLANEOUS, HIGHWAY AND UTILITY DRAWINGS.
4. ALL SHOWN LEVELS SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AS PER EXISTING SITE CONDITIONS AND RELEVANT HIGHWAY DRAWINGS. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
5. SHOWN LEVELS SHOULD BE REVIEWED WITH LATEST REVISION OF HIGHWAY DRAWINGS AND IF ANY DISCREPANCY MORE THAN 50mm IT SHOULD BE REPORTED TO THE ENGINEER.



BR-10 MSE WALL- 01 ELEVATION



BR-11 MSE WALL- 02 ELEVATION

LİMAK
İNŞAAT SANAYİ VE TİCARET A.Ş.
Hafta Sokak No: 9 G.O.P. ANKARA
Tel: 0312 448 88 00 (10 Hat)
Ankara Kurumlar V.D. 605996341

Rev. No.	Date	Description	By
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NO.	
DRAWING TITLE:	

BRIDGE - 10
MSE WALL AND ELEVATION

DRAWING NO: ST 00 BR 0911 04

DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	N.T.S	A1 SCALE:	N.T.S
DESIGNED BY:	MC	CHECKED BY:	MS
DRAWN BY:	SSB	APPROVED BY:	AZ

CLIENT:



STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

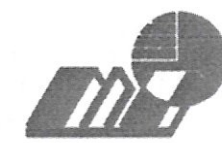
Construction, Developing And
Maintenance Of Roads And
Interchanges For New Terminal Building
In Kuwait International Airport At
Magwa Road RA268/

CONSULTANT:

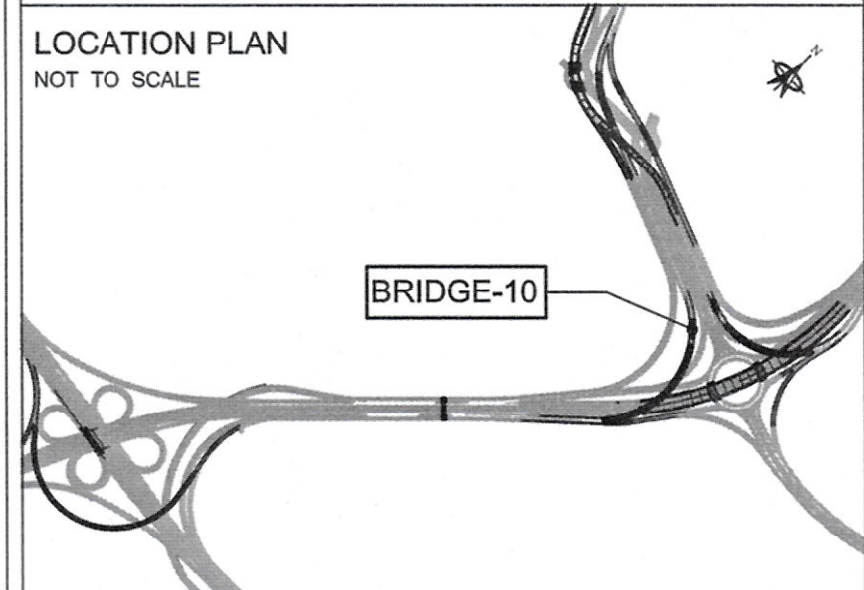


ORIENTAL CONSULTANTS
COMPANY LIMITED

IN ASSOCIATION WITH:

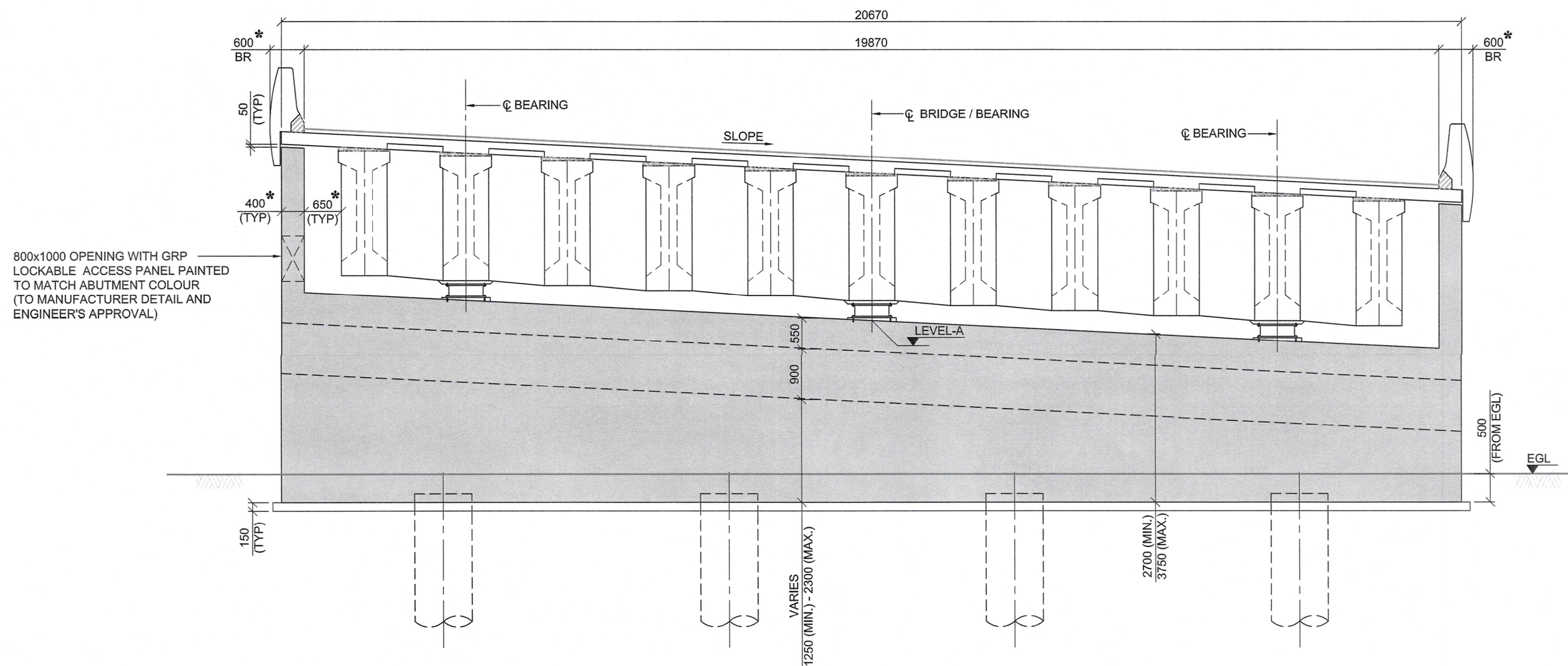


Dar Al-Dowailah
Engineering Consultants
& Construction Managers

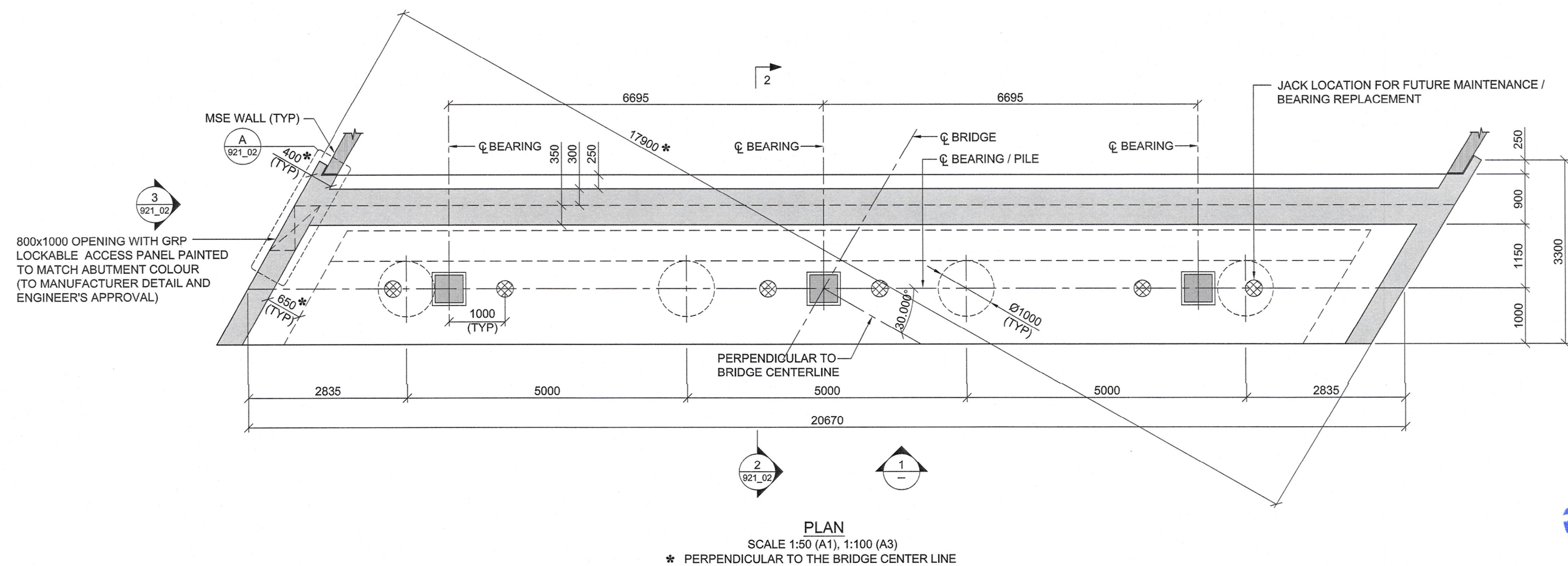
LOCATION PLAN
NOT TO SCALE

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED; COORDINATES, LEVELS AND CHAINAGES ARE IN METERS.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL NOTES, MISCELLANEOUS, HIGHWAY AND UTILITY DRAWINGS.
- DECK CROSS SLOPE DIRECTION SHOWN IS INDICATIVE ONLY.
- FRL'S AND DECK CROSS SLOPE SHALL BE VERIFIED WITH RELEVANT HIGHWAY DRAWINGS.
- JACKING LOCATION SHALL BE PROPERLY ETCHED ON ABUTMENT BEAM.
- THE PROPOSED JACK LOCATIONS ARE INDICATIVE AND SHALL BE VERIFIED BY THE BEARING MANUFACTURER.
- TOP OF THE ABUTMENT LEVEL IS BASED ON A HEIGHT OF 350MM BETWEEN THE GIRDER AND TOP OF THE ABUTMENT.
- SHOWN LEVELS SHOULD BE REVIEWED WITH LATEST REVISION OF HIGHWAY DRAWINGS AND IF ANY DISCREPANCY MORE THAN 50mm IT SHOULD BE REPORTED TO THE ENGINEER.



1 ELEVATION
SCALE 1:50 (A1), 1:100 (A3)



PLAN
SCALE 1:50 (A1), 1:100 (A3)
* PERPENDICULAR TO THE BRIDGE CENTER LINE

ABUTMENT No.	LEVEL-A	EGL	NET SERVICE PILE CAPACITY (kN)
ABUT-1	62.002	59.65	3100

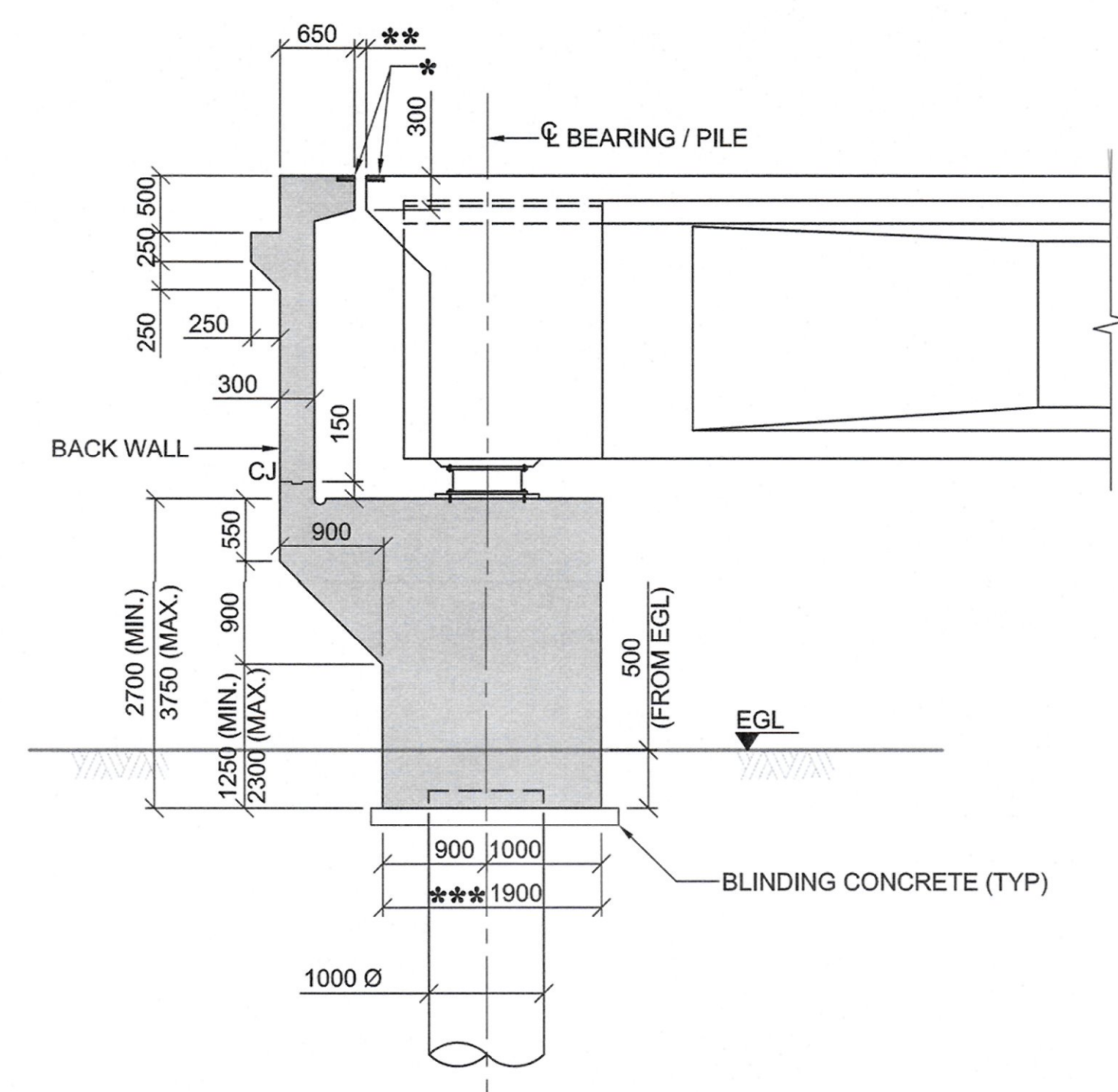
Rev. No.	Date	Description	By

DRAWING TITLE:

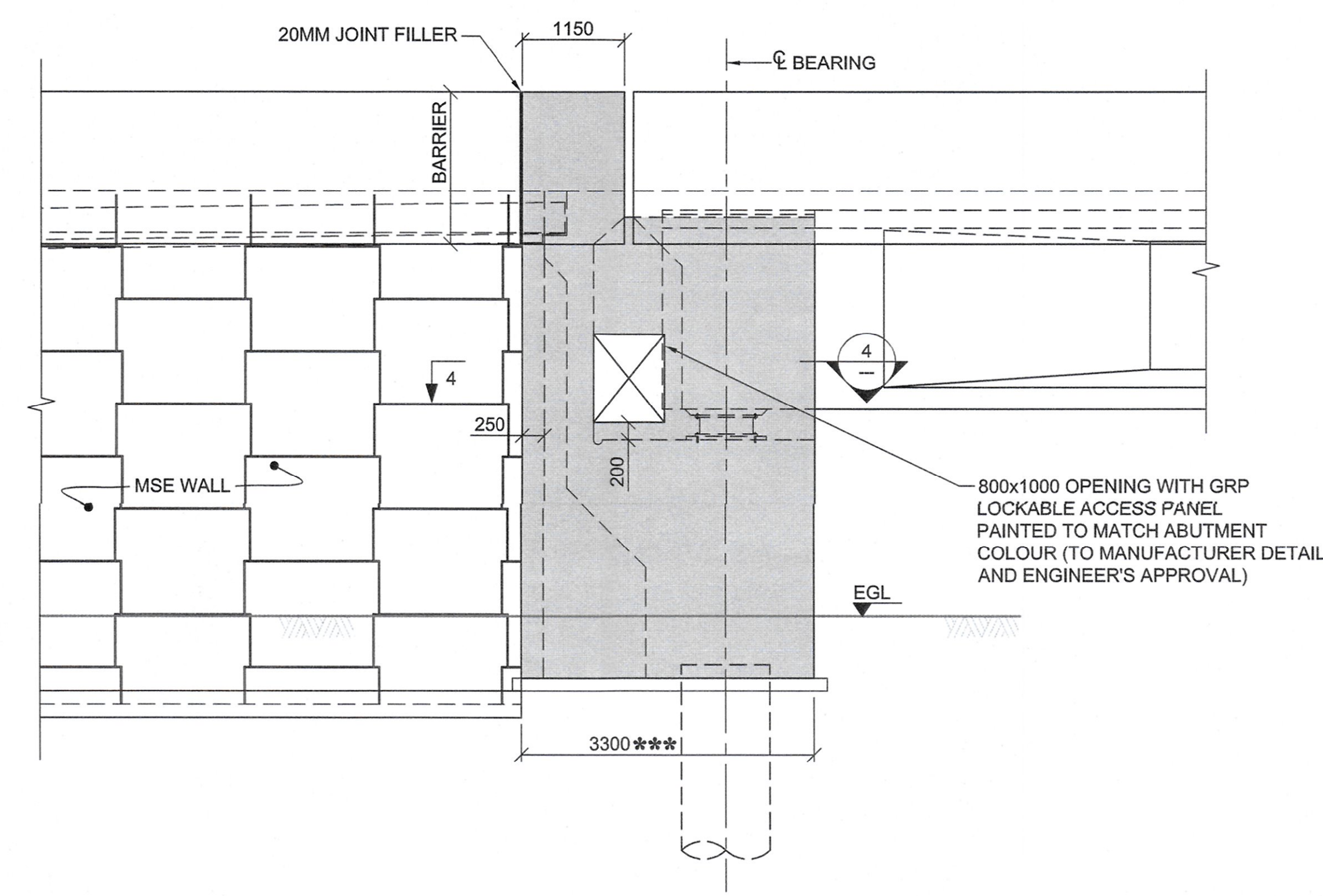
BRIDGE - 10
ABUTMENT - 01 DIMENSIONAL DETAILS
(SHEET - 01)

DRAWING NO: ST_00_BR_0921_01

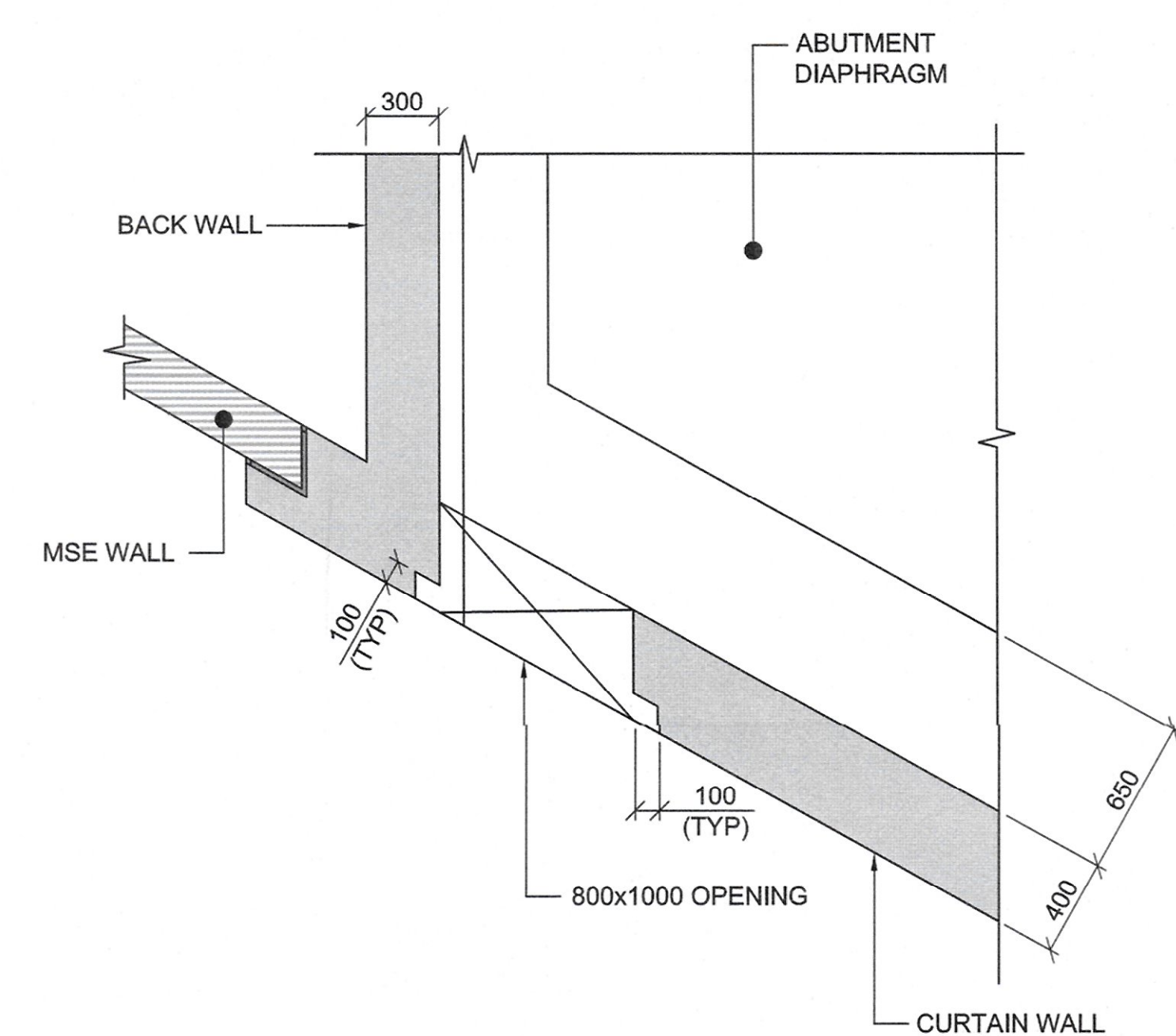
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DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	MA	APPROVED BY:	AZ



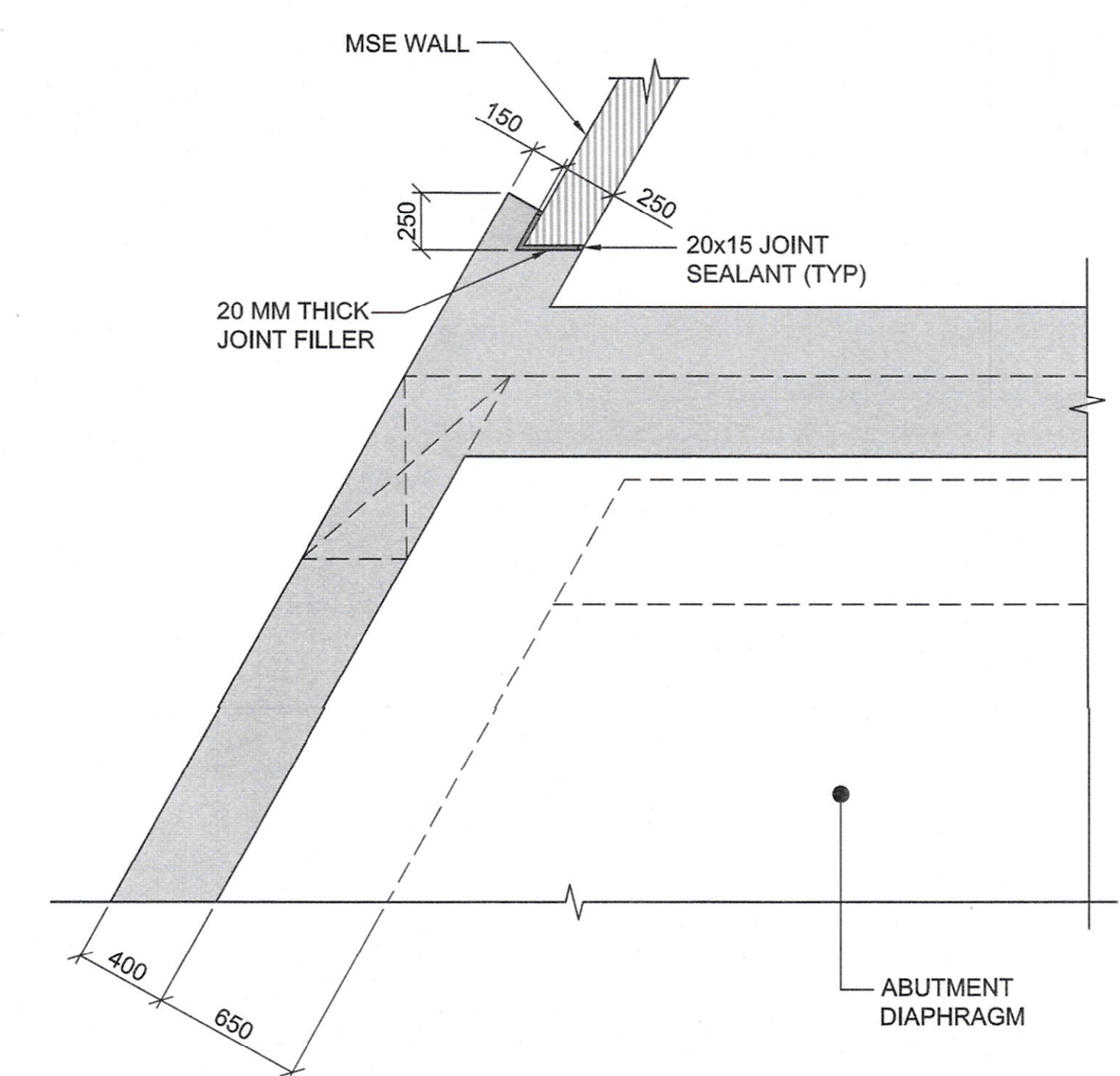
2 SECTION
 REF: 0921_01
 SCALE 1:50 (A1) 1:100 (A3)
 * BLOCKOUT DIMENSION TO BE PROPOSED BY CONTRACTOR BASED ON THE MANUFACTURER'S RECOMMENDATIONS.
 ** TO BE READ FROM BEARING DRAWING.
 *** THIS DIMENSION IS BASED ON THE ASSUMPTION OF 100MM GAP. TO BE MODIFIED ACCORDING TO REAL GAP DIMENSIONS AS SHOWN IN BEARING DRAWING.



3 ELEVATION
 REF: 0921_01
 SCALE 1:50 (A1) 1:100 (A3)



4 SECTION
 SCALE 1:25 (A1) 1:50 (A3)



A DETAIL
 REF: 0921_01
 SCALE 1:25 (A1) 1:50 (A3)

CLIENT:

STATE OF KUWAIT
 MINISTRY OF PUBLIC WORKS
 ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And Maintenance Of Roads And Interchanges For New Terminal Building In Kuwait International Airport At Magwa Road RA268/

CONSULTANT:

ORIENTAL CONSULTANTS
 COMPANY LIMITED

IN ASSOCIATION WITH:

Dar Al-Dowailah
 Engineering Consultants & Construction Managers

LOCATION PLAN
 NOT TO SCALE

BRIDGE-10

NOTES:

1. FOR NOTES REFER DRAWING No.0921_01

Rev. No.	Date	Description	By

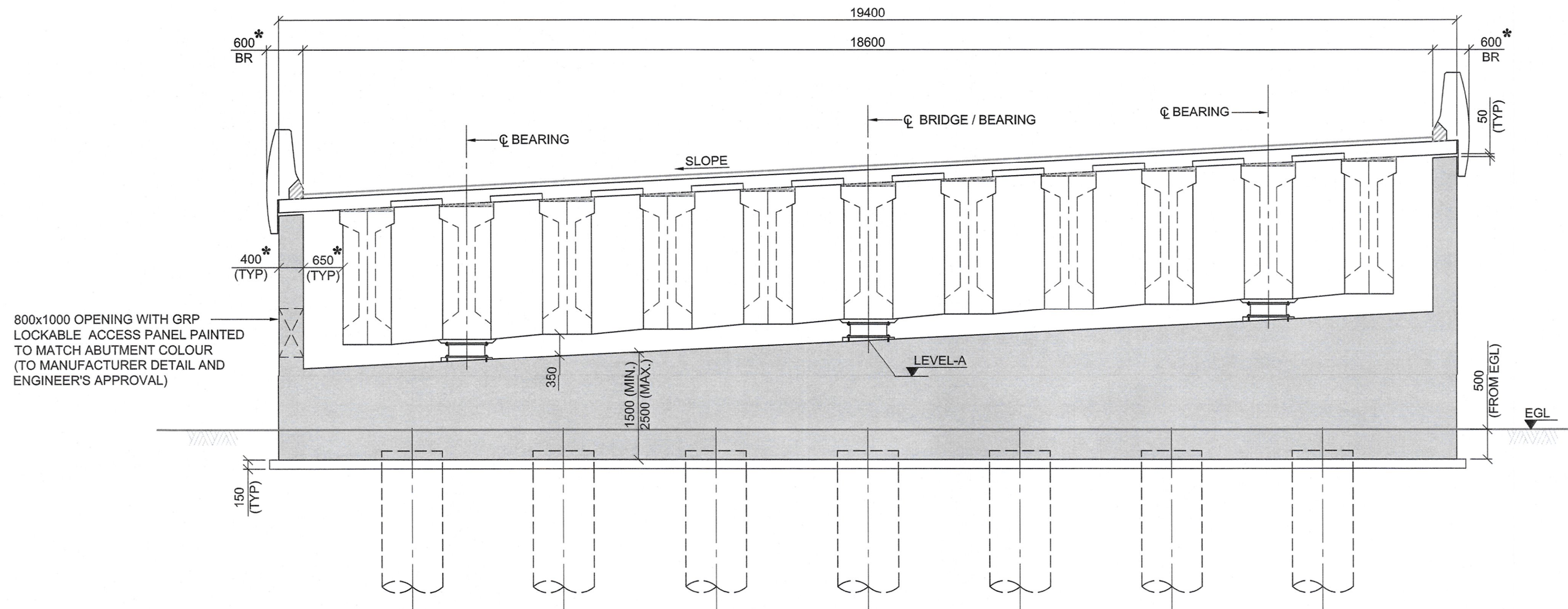
DRAWING TITLE:

BRIDGE - 10
ABUTMENT - 01 DIMENSIONAL DETAILS
(SHEET - 02)

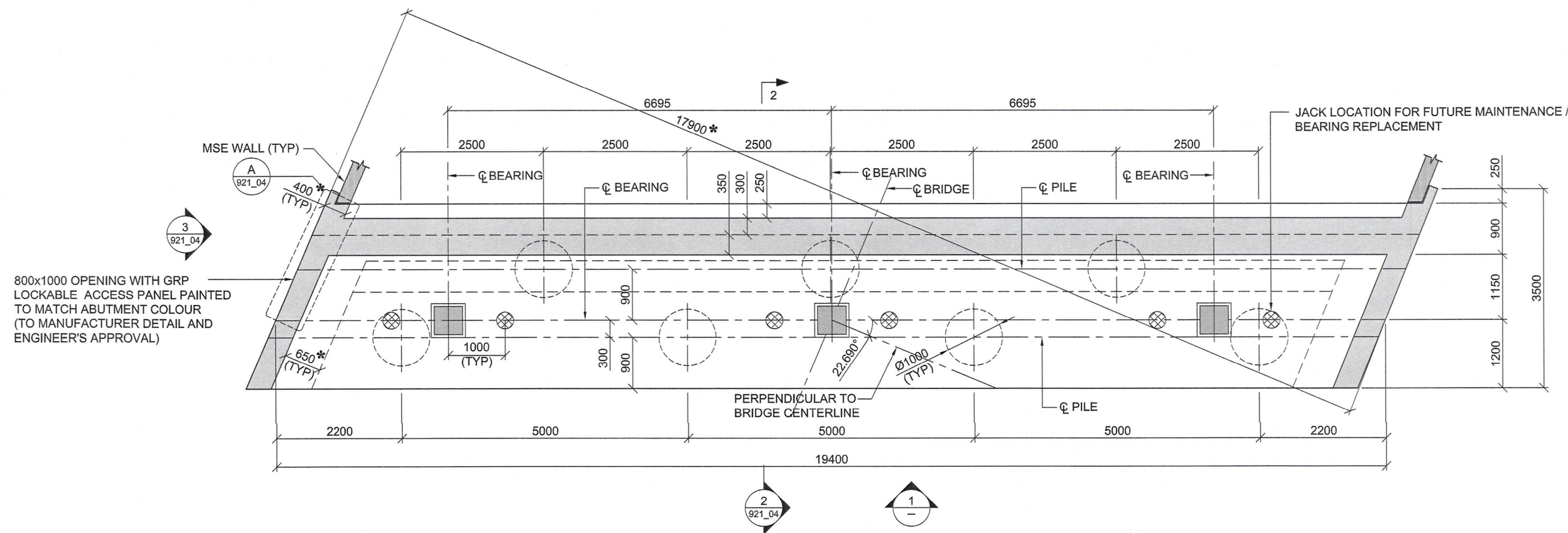
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DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	MA	APPROVED BY:	AZ

Unit: Meters, millimeters
 Date: Nov 21, 2016 14:25:29
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1 ELEVATION
SCALE 1:50 (A1) 1:100 (A3)



2 PLAN
SCALE 1:50 (A1) 1:100 (A3)
* PERPENDICULAR TO THE BRIDGE CENTER LINE

ABUTMENT No.	LEVEL-A	EGL	NET SERVICE PILE CAPACITY (kN)
ABUT-2	60.519	59.75	3200

CLIENT:



STATE OF KUWAIT
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ROADS ENGINEERING SECTOR

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Construction, Developing And
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Magwa Road RA268/

CONSULTANT:



ORIENTAL CONSULTANTS
COMPANY LIMITED

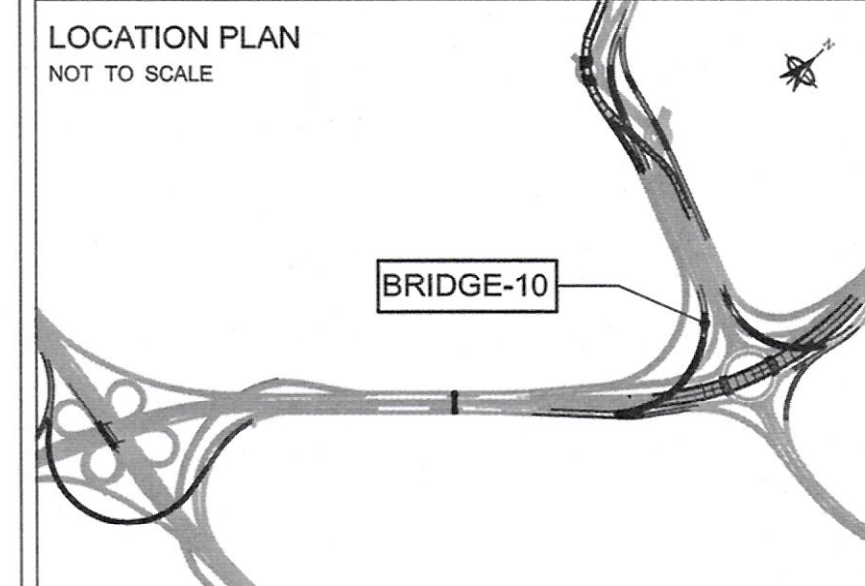
IN ASSOCIATION WITH:



Dar Al-Dowailah
Engineering Consultants
& Construction Managers

LOCATION PLAN

NOT TO SCALE



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED; COORDINATES, LEVELS AND CHAINAGES ARE IN METERS.
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3. DECK CROSS SLOPE DIRECTION SHOWN IS INDICATIVE ONLY.
4. FRL'S AND DECK CROSS SLOPE SHALL BE VERIFIED WITH RELEVANT HIGHWAY DRAWINGS.
5. JACKING LOCATION SHALL BE PROPERLY ETCHED ON ABUTMENT BEAM.
6. PILE PROTECTIVE CONCRETE ENCASUREMENT TO BE DESIGNED BY THE CONTRACTOR AND SUBMITTED TO ENGINEER FOR APPROVAL.
7. THE PROPOSED JACK LOCATIONS ARE INDICATIVE AND SHALL BE VERIFIED BY THE BEARING MANUFACTURER.
8. SHOWN LEVELS SHOULD BE REVIEWED WITH LATEST REVISION OF HIGHWAY DRAWINGS AND IF ANY DISCREPANCY MORE THAN 50mm IT SHOULD BE REPORTED TO THE ENGINEER.

Rev. No.	Date	Description	By
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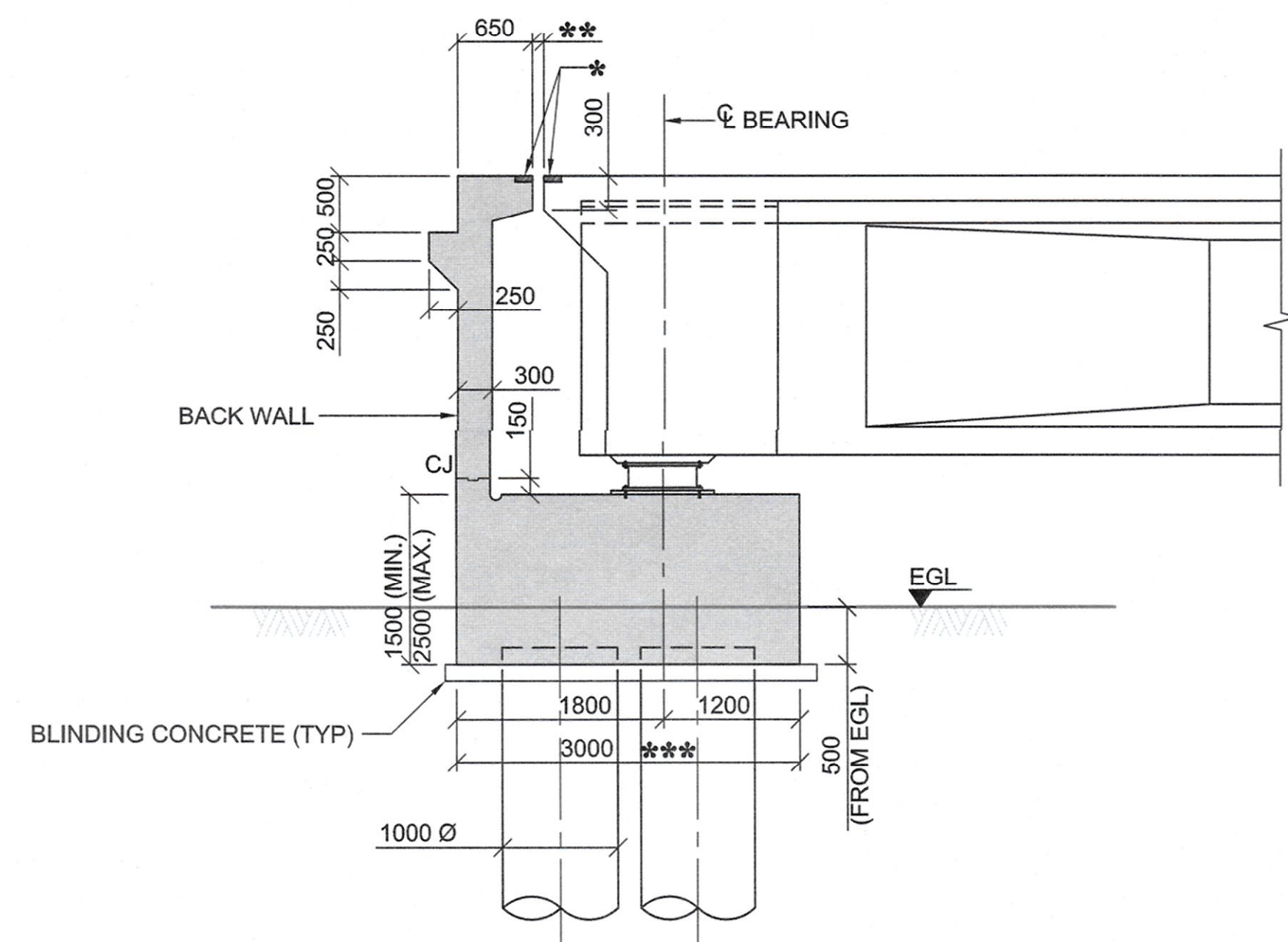
Rev. No.	Date	Description	By
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DRAWING TITLE:
BRIDGE - 10
ABUTMENT - 02 DIMENSIONAL DETAILS
(SHEET - 01)

DRAWING NO: ST_00_BR_0921_03

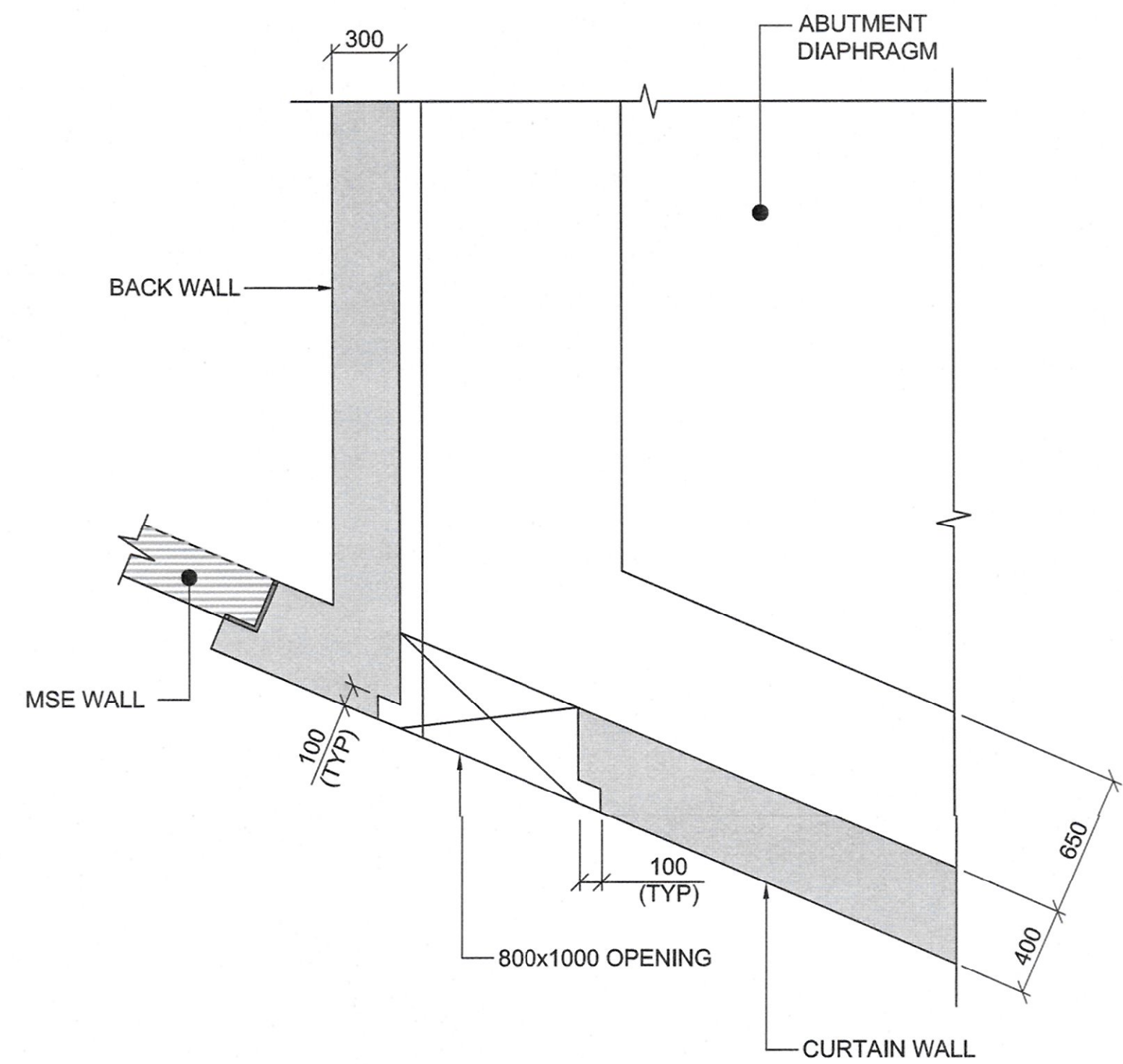
DATE:	NOV.14, 2016	STATUS:	FINAL
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DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	MA	APPROVED BY:	AZ



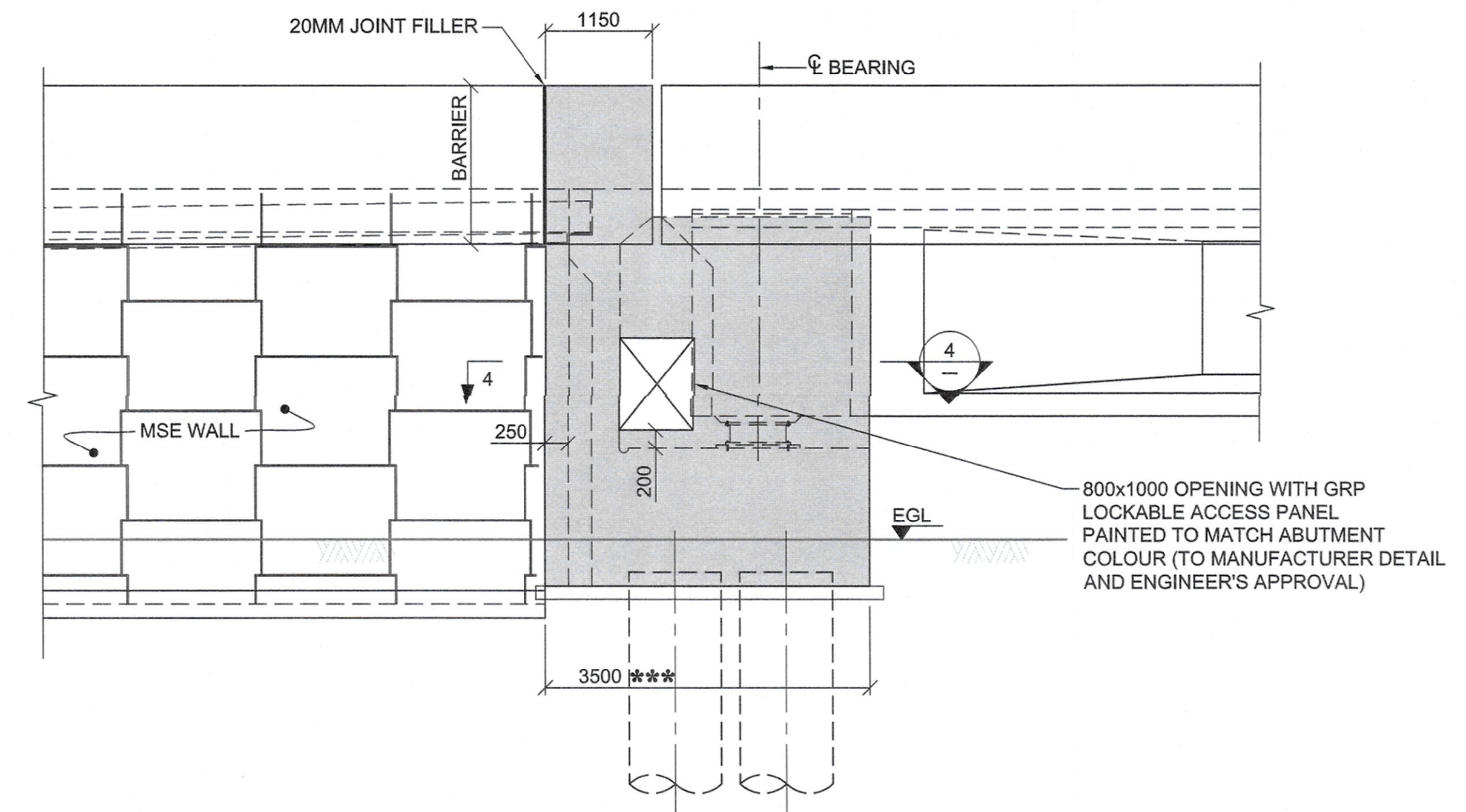


2 SECTION
REF: 0921_03
SCALE 1:50 (A1) 1:100 (A3)

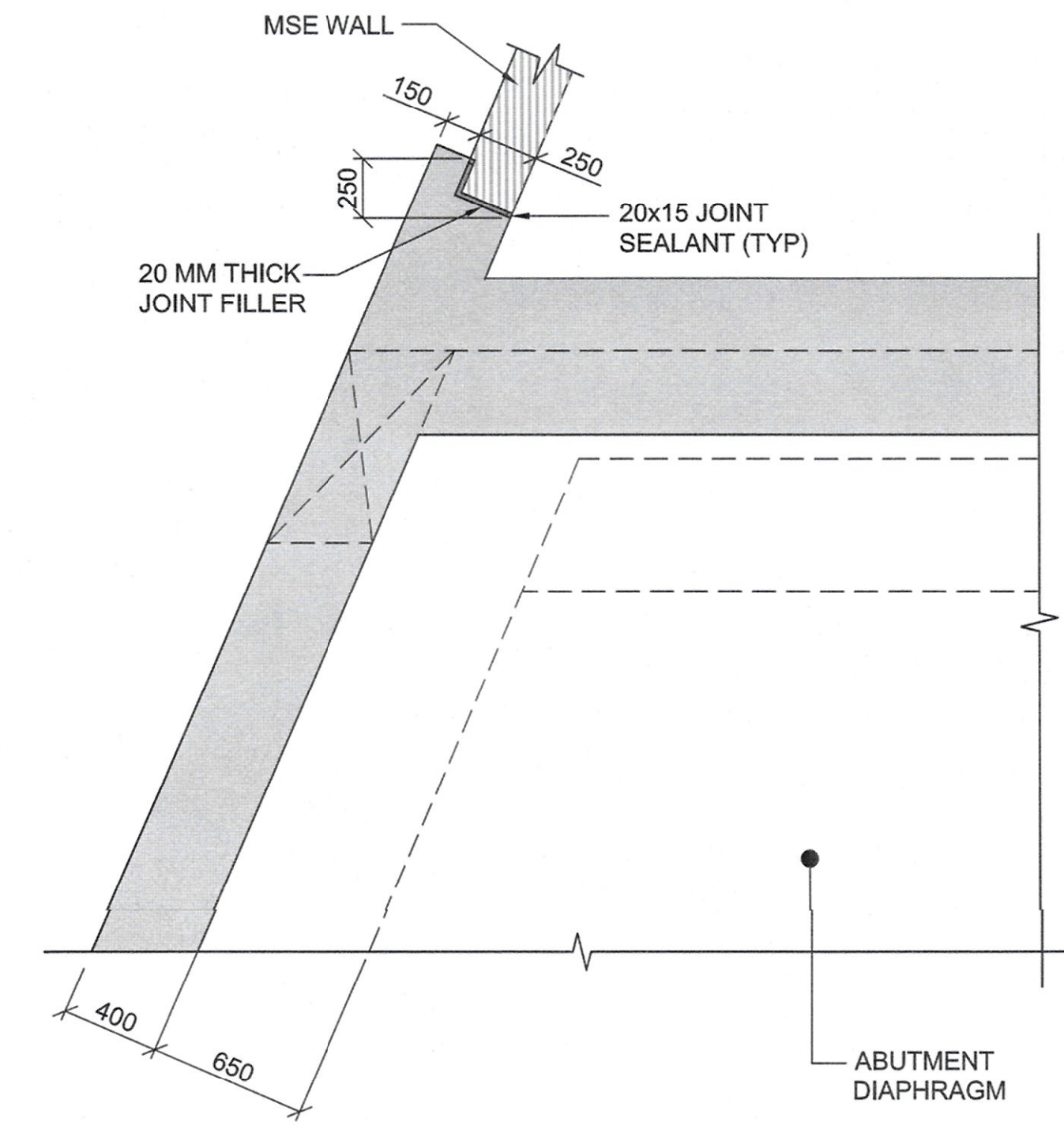
- * BLOCKOUT DIMENSION TO BE PROPOSED BY CONTRACTOR BASED ON THE MANUFACTURER'S RECOMMENDATIONS.
- ** TO BE READ FROM BEARING DRAWING.
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4 SECTION
SCALE 1:25 (A1) 1:50 (A3)



3 ELEVATION
REF: 0921_03
SCALE 1:50 (A1) 1:100 (A3)




A DETAIL
REF: 0921_03
SCALE 1:25 (A1) 1:50 (A3)




STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

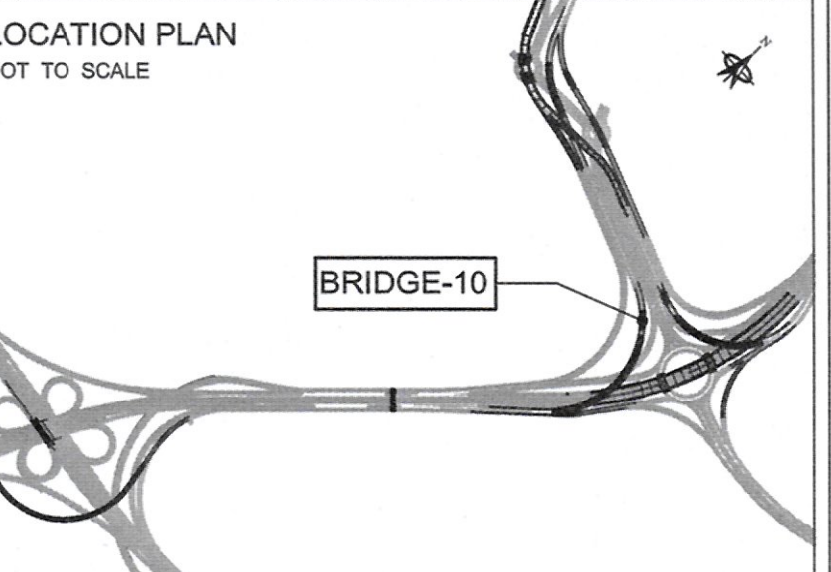
CLIENT:

PROJECT:
Construction, Developing And Maintenance Of Roads And Interchanges For New Terminal Building In Kuwait International Airport At Magwa Road RA268/

CONSULTANT:
 **ORIENTAL CONSULTANTS**
COMPANY LIMITED

IN ASSOCIATION WITH:
 **Dar Al-Dowailah**
Engineering Consultants & Construction Managers

LOCATION PLAN
NOT TO SCALE





NOTES:
1. FOR NOTES REFER DRAWING No.0921_03

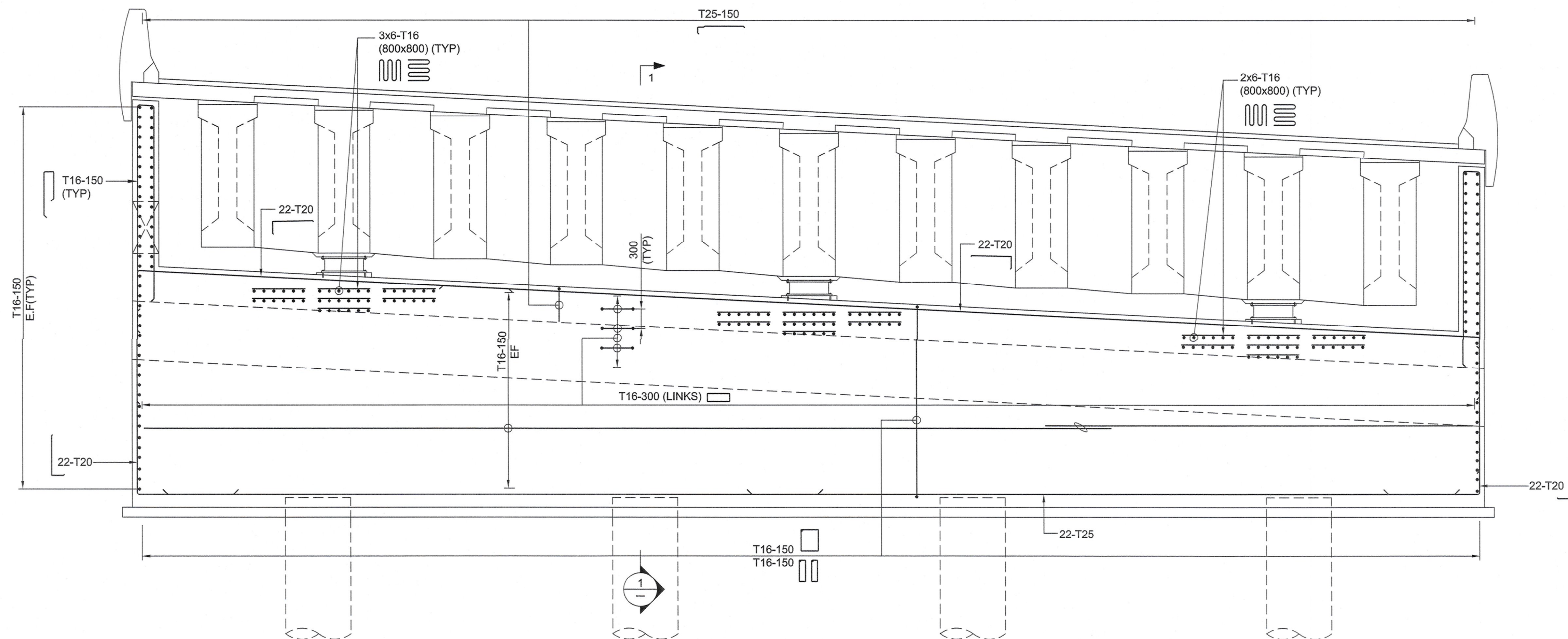
Rev. No.	Date	Description	By

DRAWING TITLE:
BRIDGE - 10
ABUTMENT - 02 DIMENSIONAL DETAILS
(SHEET - 02)

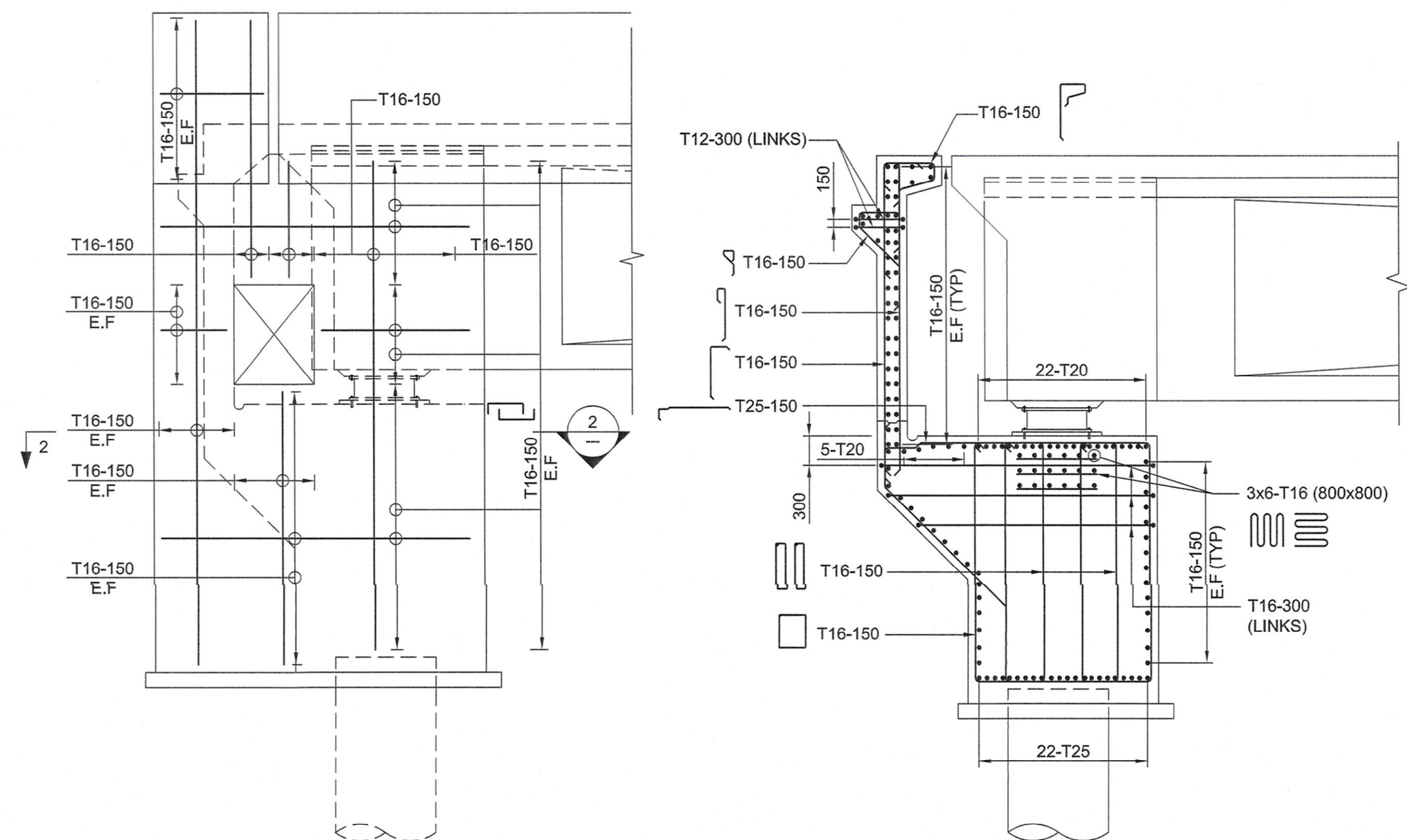
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DRAWN BY:	MA	APPROVED BY:	AZ

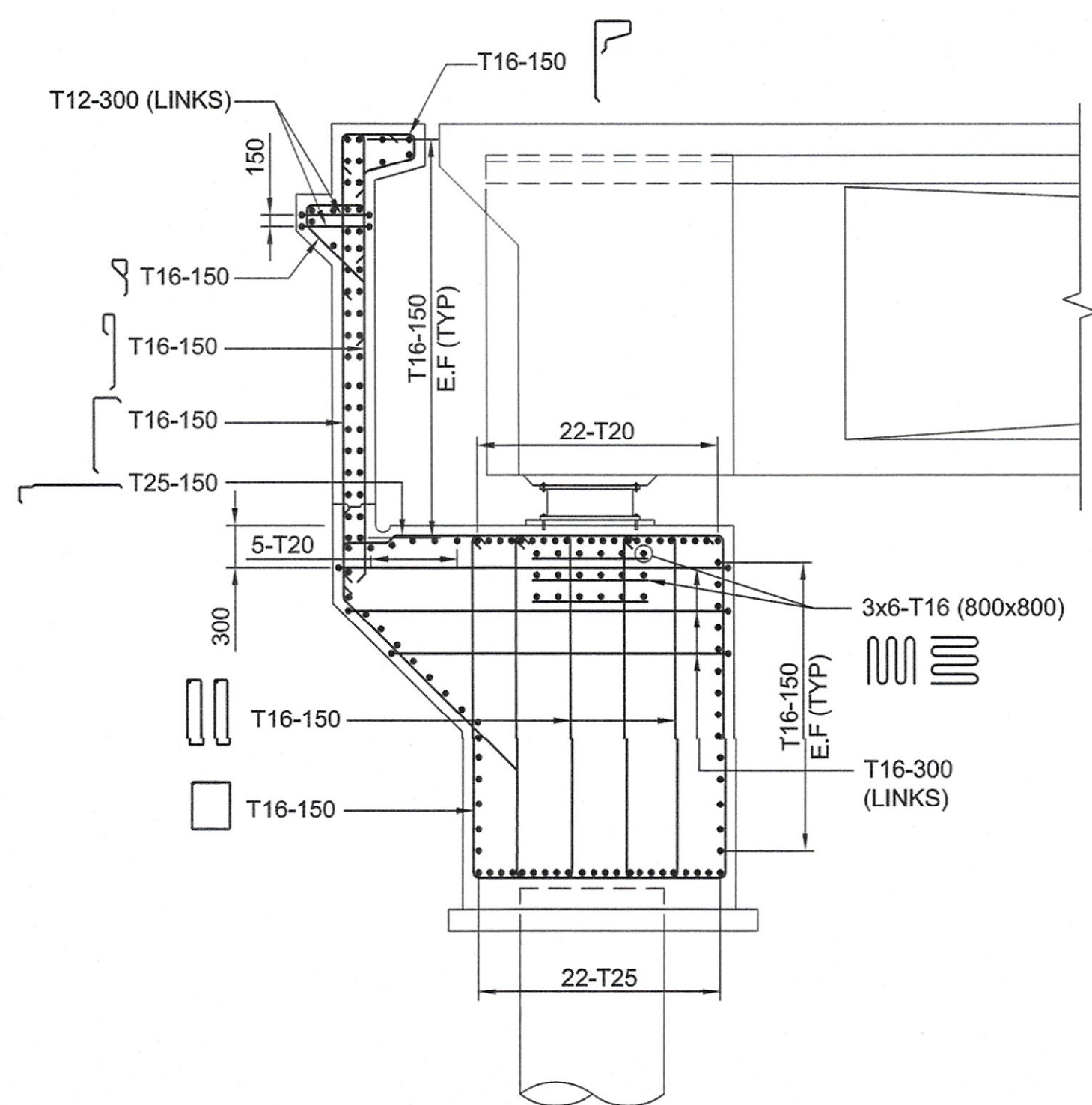





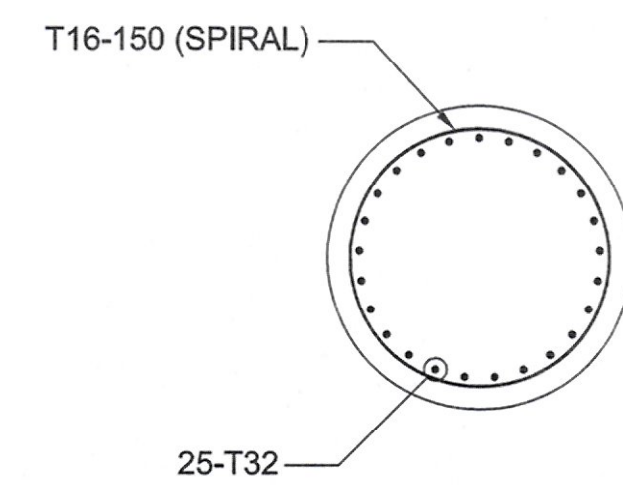
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SCALE 1:40 (A1), 1:80 (A3)



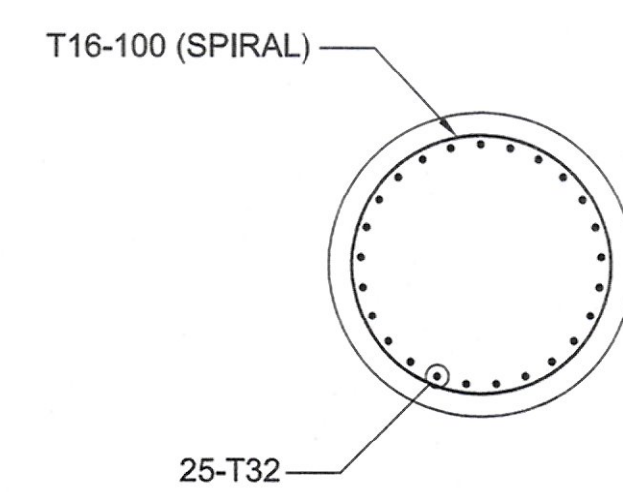
REINFORCEMENT ELEVATION FOR CURTAIN WALL
SCALE 1:40 (A1), 1:80 (A3)



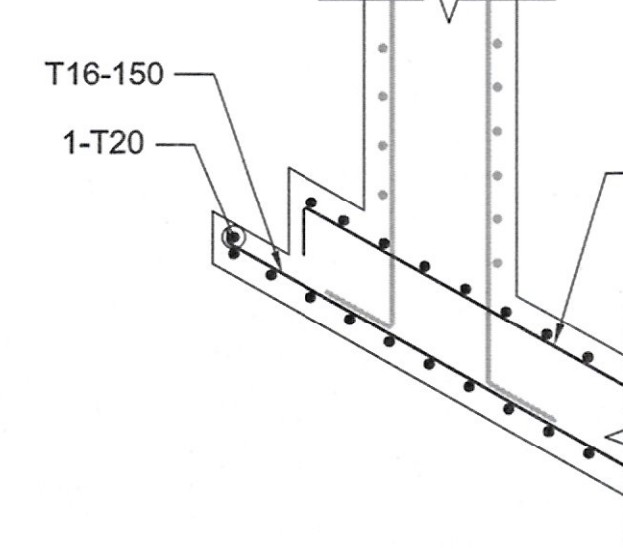
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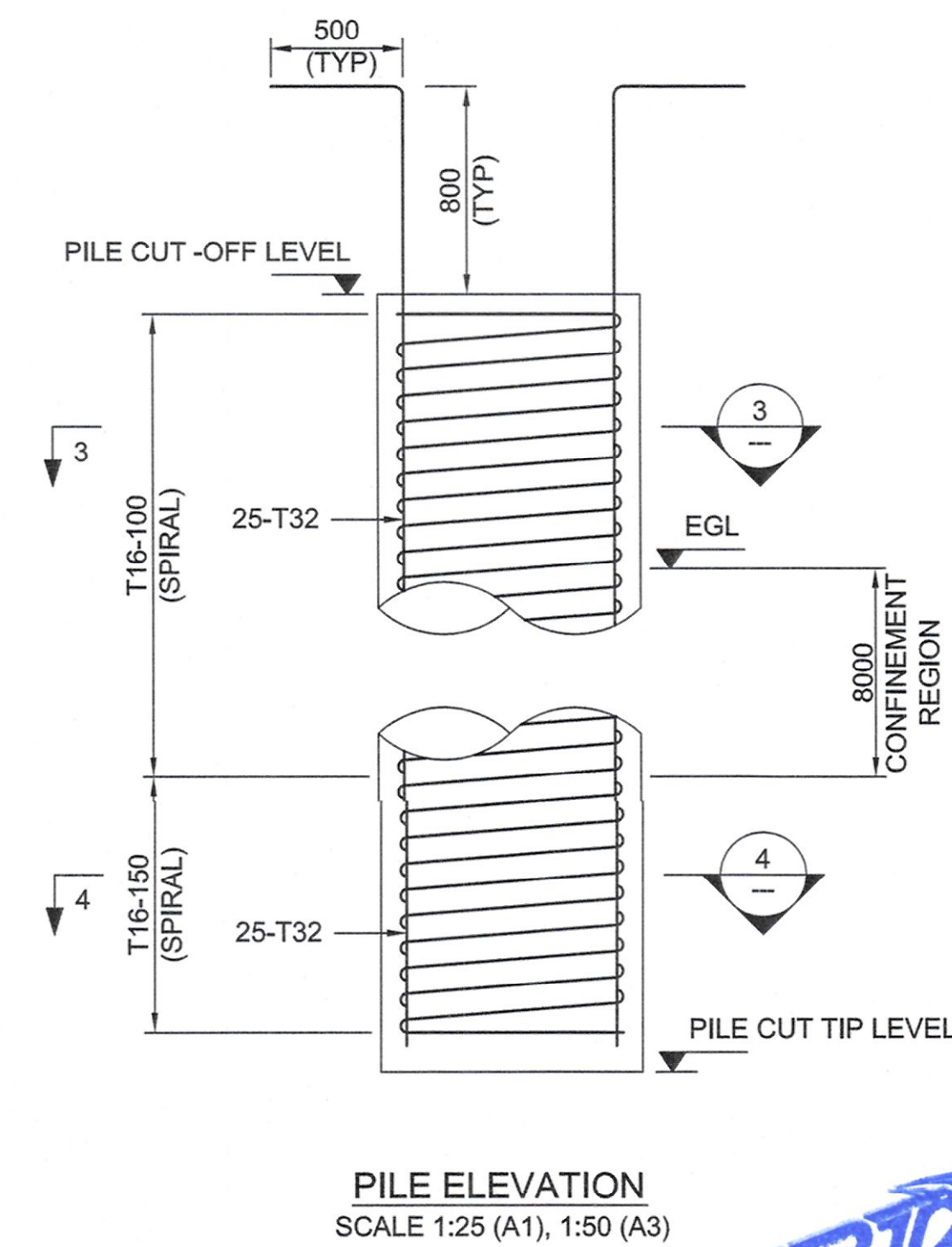
SECTION 3
SCALE 1:25 (A1), 1:50 (A3)



SECTION 4
SCALE 1:25 (A1), 1:50 (A3)



SECTION 2
SCALE 1:25 (A1), 1:50 (A3)



PILE ELEVATION
SCALE 1:25 (A1), 1:50 (A3)

CLIENT:



STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
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Magwa Road RA268/

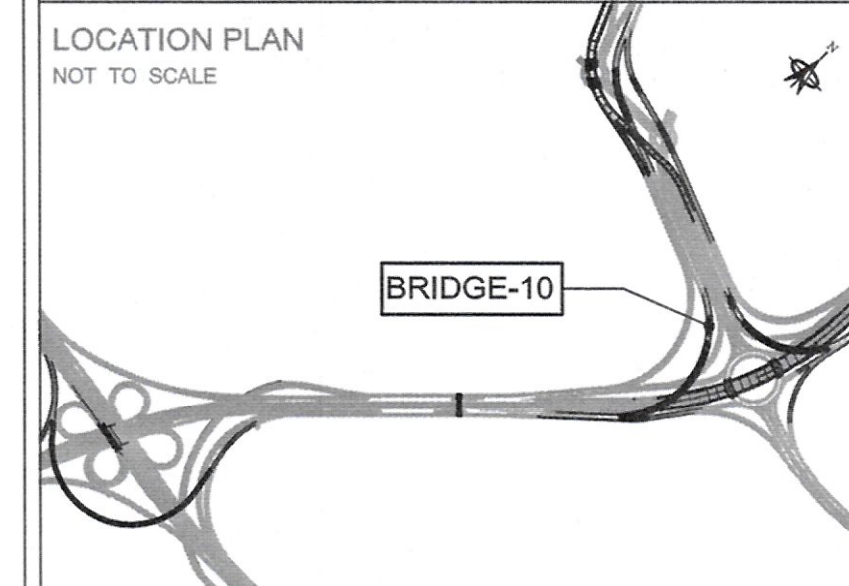
CONSULTANT:



IN ASSOCIATION WITH:



LOCATION PLAN
NOT TO SCALE

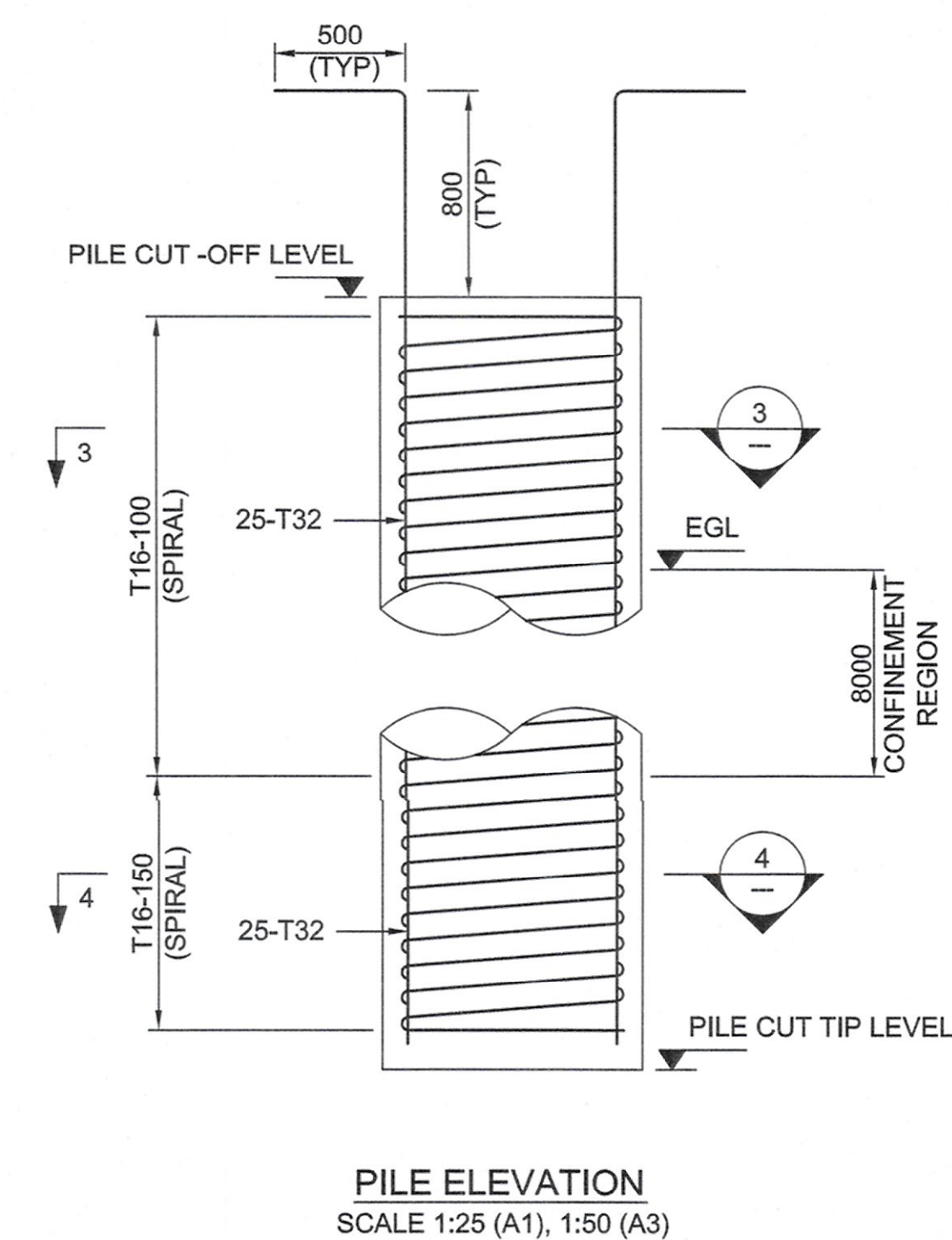
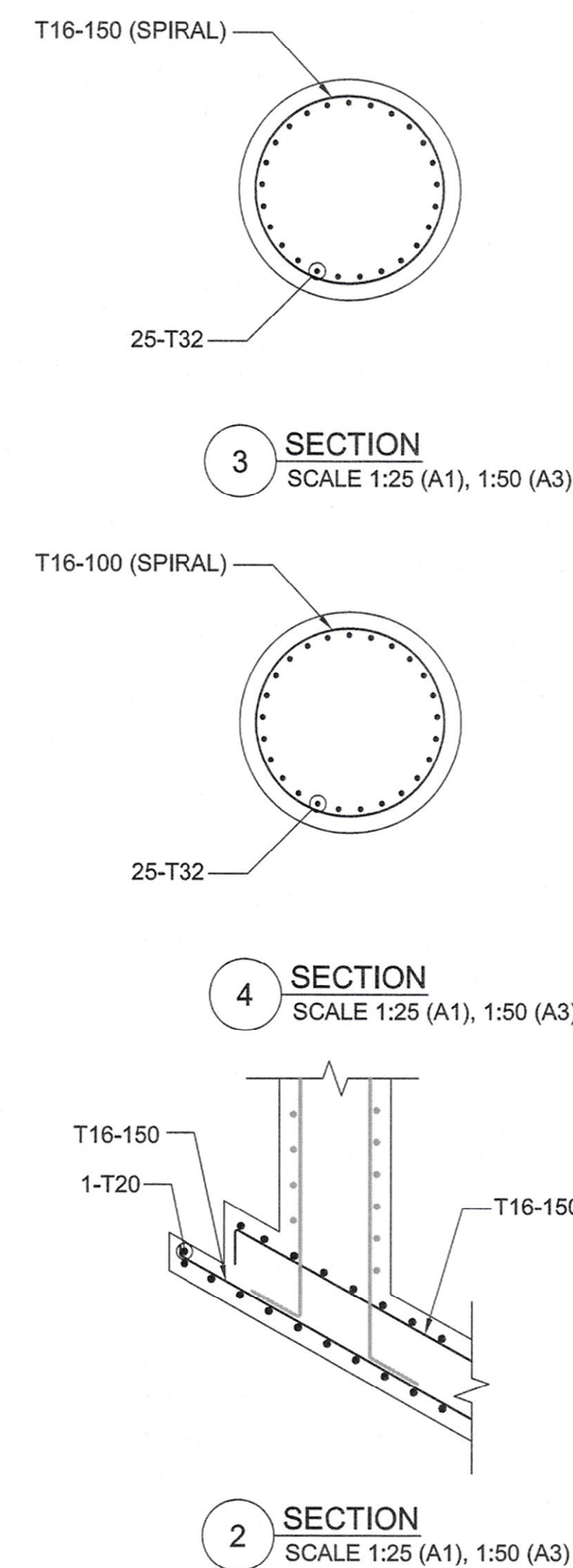
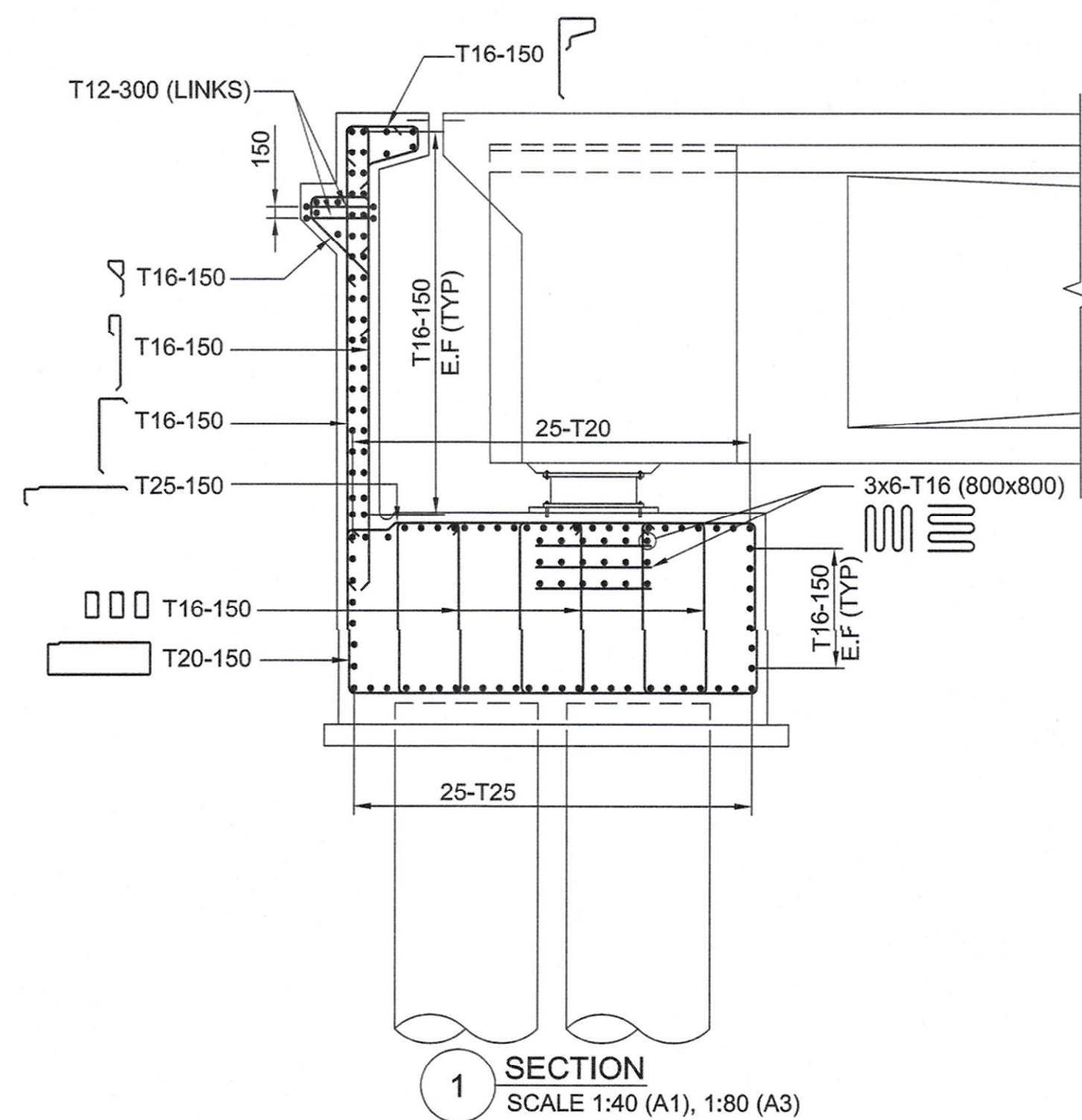
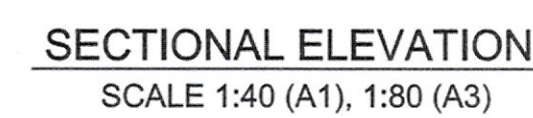


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ALL LAPS SHALL BE STAGGERED UNLESS OTHERWISE NOTED.
3. LAPPING OF SPIRALS IN THE TRANSVERSE CONFINEMENT REGION SHALL NOT BE PERMITTED. CONNECTION OF SPIRALS IN THIS REGION MUST BE FULL STRENGTH LAP WELDS.
4. ALL LAPS SHALL BE STAGGERED UNLESS NOTED OTHERWISE.

LINAK
INSAAT SANAYİ VE TİCARET A.Ş.
Nispetiye Sokak No: 90 P: ANKARA
Tel: 0312 448 88 00 (10 Hat)
Ankara Kurumlar Y.D. 0650952453

Rev. No.	Date	Description	By
DRAWING TITLE:			
BRIDGE - 10 ABUTMENT - 01 REINFORCEMENT DETAILS			
DRAWING NO: ST_00_BR_0921_05			
DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	MA	APPROVED BY:	AZ

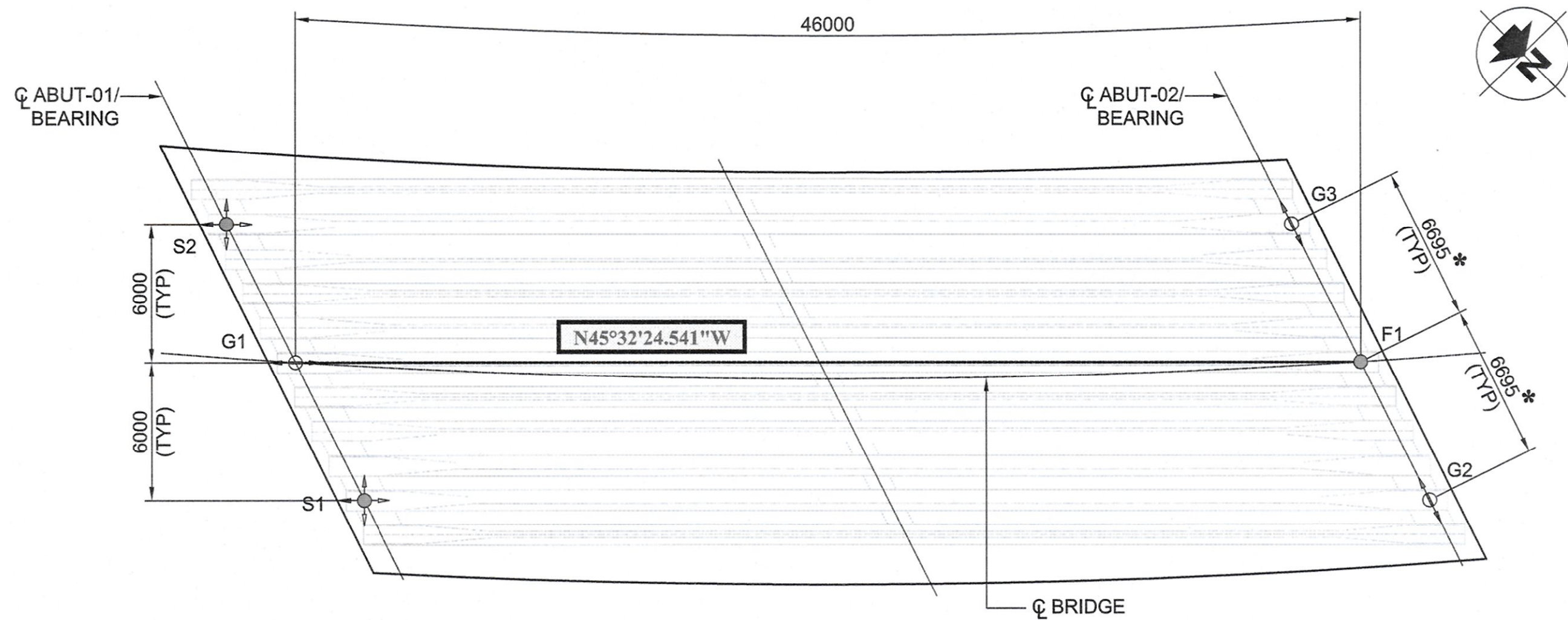


LİMAK
İNSAAT SANAYİ VE TİCARET A.Ş.
Mafra Sokak No: 9 G.O.P. ANKARA
Tel: 0312 446 58 00 (10 Hat)
Ankara Kurumlar V.D. 6050963453

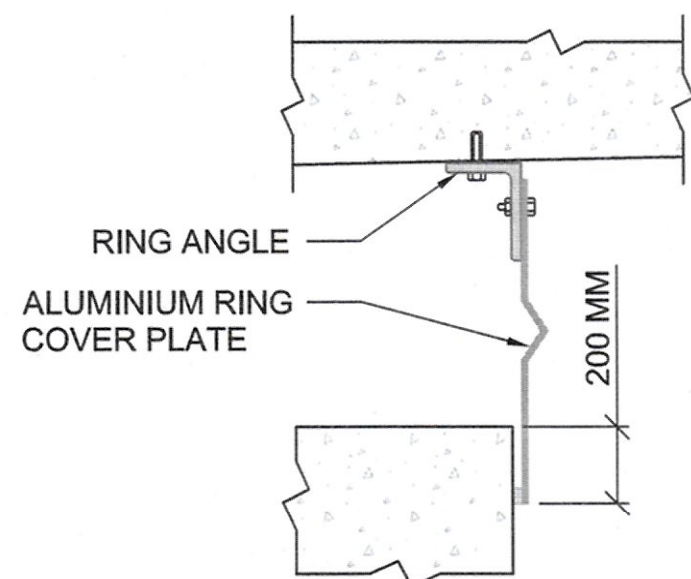
Rev. No.	Date	Description	By
DRAWING TITLE:			
<p style="text-align: center;">BRIDGE - 10 ABUTMENT - 02 REINFORCEMENT DETAILS</p>			
DRAWING NO: ST_00_BR_0921_06			
DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	MA	APPROVED BY:	AZ

DRAWING NO: ST_00_BR_0921_06

DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	MA	APPROVED BY:	AZ



BEARING PLAN
SCALE 1:200 (A1), 1:400 (A3)
* SKEW DIMENSION



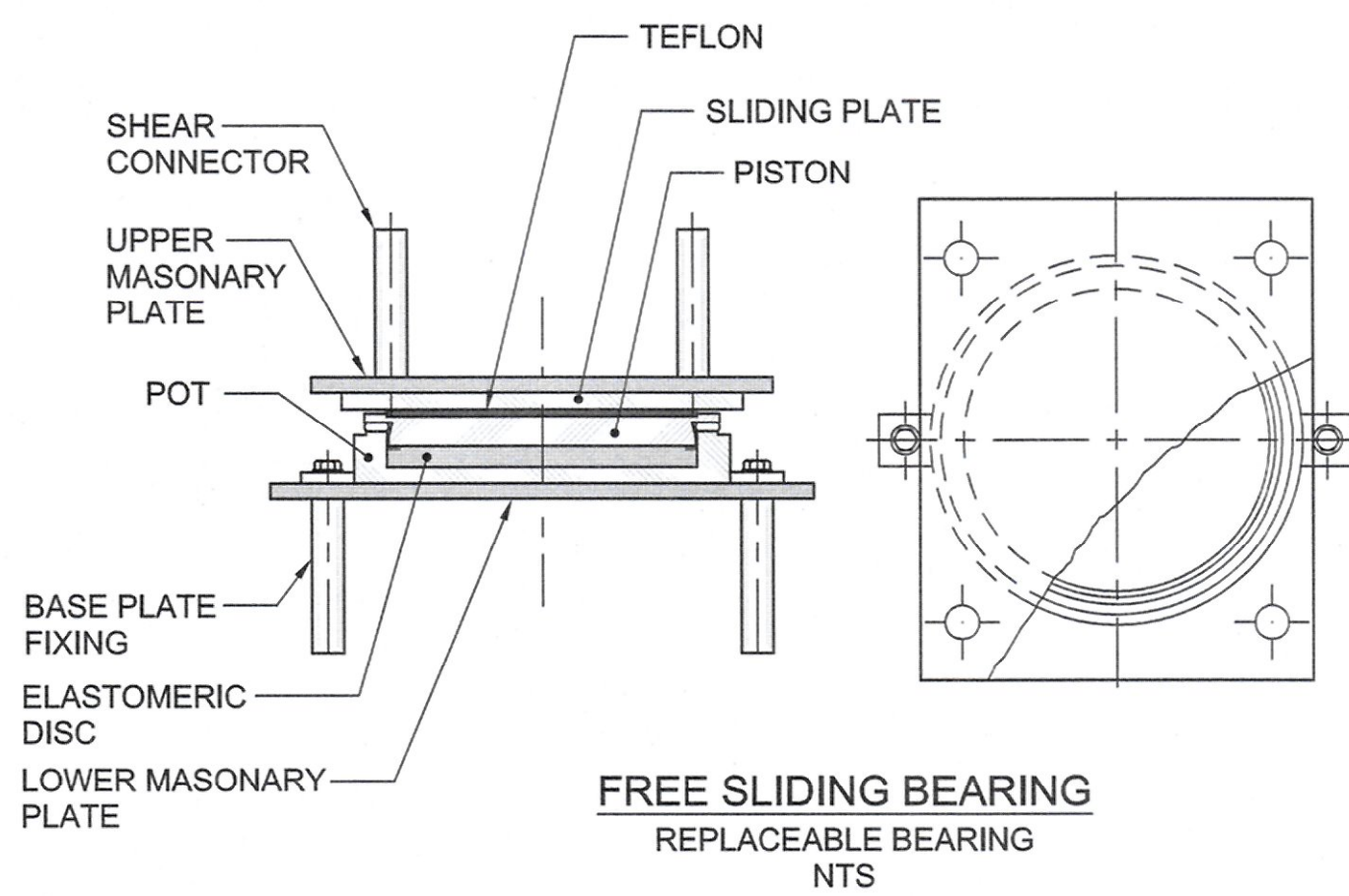
DETAIL-1
NTS

EXPANSION JOINT			
MOVEMENT AND GAP (INSTALLATION TEMPERATURE 32°C) (mm)			
LOCATION	MAX. EXPANSION	MAX. CONTRACTION	GAP
ABUTMENT-1	30	-55	55
ABUTMENT-2	0	0	25

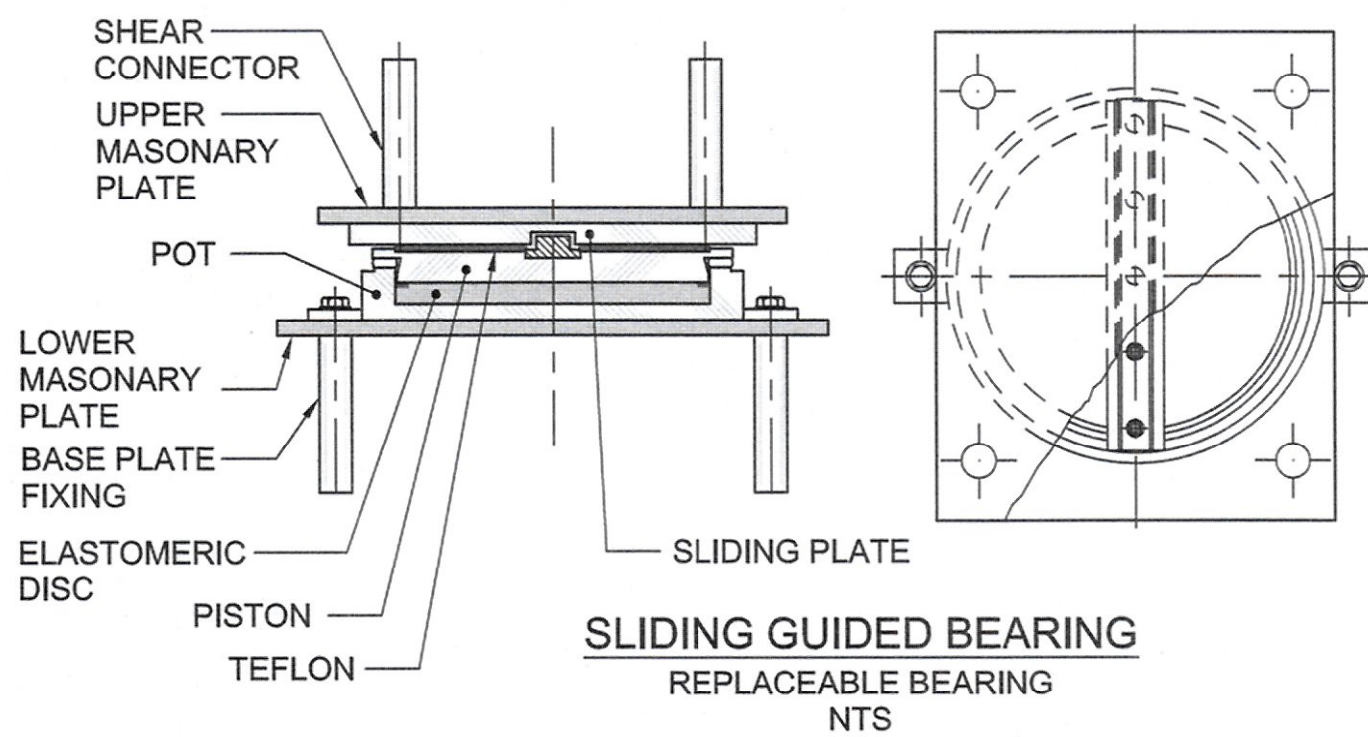
BEARING DATA

BEARING IDENTIFICATION MARK				G1	S1	S2	F1	G2	G3	
NUMBER				1	1	1	1	1	1	
SEATING MATERIAL			UPPER SURFACE	CONCRETE						
			LOWER SURFACE	EPOXY MORTAR						
DESIGN LOAD EFFECTS (KN)	SERVICE LIMIT STATE		VERTICAL MAX.	5600	5800	5500	5700	5600	5600	
			VERTICAL PERM.	4300	4100	3900	4400	4000	3800	
			VERTICAL MIN.	4000	3600	3700	4100	3700	3500	
			TRANSVERSE	560	-	-	570	-	-	
	STRENGTH LIMIT STATE (INCLUDING EARTH QUAKE EFFECT)		LONGITUDINAL	-	-	-	570	950	600	
			VERTICAL	8000	8500	8100	8200	8100	8400	
			TRANSVERSE	2100	-	-	1750	-	-	
			LONGITUDINAL	-	-	-	1300	1100	950	
TRANSLATION (mm) (INSTALLATION TEMPARATURE 32°)	SERVICE LIMIT STATE	IRREVERSIBLE	TRANSVERSE	-	10	10	-	10	10	
			LONGITUDINAL	95	95	95	-	-	-	
		STRENGTH LIMIT STATE	REVERSIBLE	TRANSVERSE	± 0	± 5	± 5	-	± 5	± 5
				LONGITUDINAL	± 30	± 30	± 30	-	± 0	± 0
	IRREVERSIBLE		TRANSVERSE	-	15	15	-	15	15	
			LONGITUDINAL	115	115	115	-	-	-	
		REVERSIBLE	TRANSVERSE	± 0	± 10	± 10	-	± 10	± 10	
			LONGITUDINAL	± 40	± 40	± 40	-	± 0	± 0	
ALLOWABLE AVERAGE CONTACT PRESSURE (MPa)	UPPER SURFACE		SERVICEABILITY	20						
			STRENGTH	30						
	LOWER SURFACE		SERVICEABILITY	20						
			STRENGTH	30						
ROTATION (RAD.)	SERVICE LIMIT STATE		TRANSVERSE	0.02						
			LONGITUDINAL	0.02						
MAXIMUM BEARING DIMENSIONS (MM)	UPPER SURFACE		TRANSVERSE	*						
			LONGITUDINAL	*						
	LOWER SURFACE		TRANSVERSE	*						
			LONGITUDINAL	*						
	OVERALL HEIGHT			*						
	ALLOWABLE RESISTANCE TO TRANSLATION UNDER SERVICE LIMIT STATE (μ)			TRANSVERSE	0.04					
LONGITUDINAL				0.04						
TYPE OF FIXING TO STRUCTURE AND SUBSTRUCTURE			TRANSVERSE	BY BOLTS, WASHERS AND						
			LONGITUDINAL	BUILT IN SOCKETS						

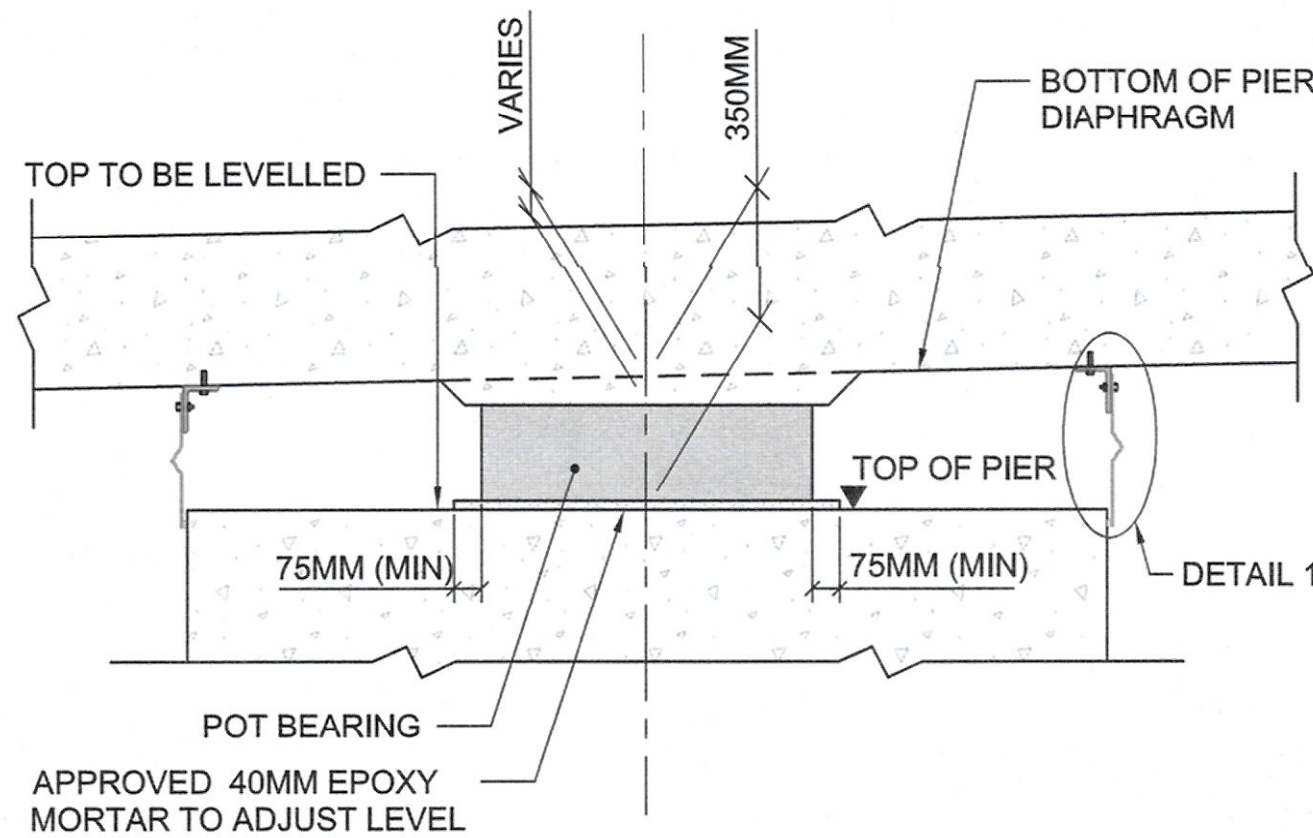
* TO BE SPECIFIED BY MANUFACTURER



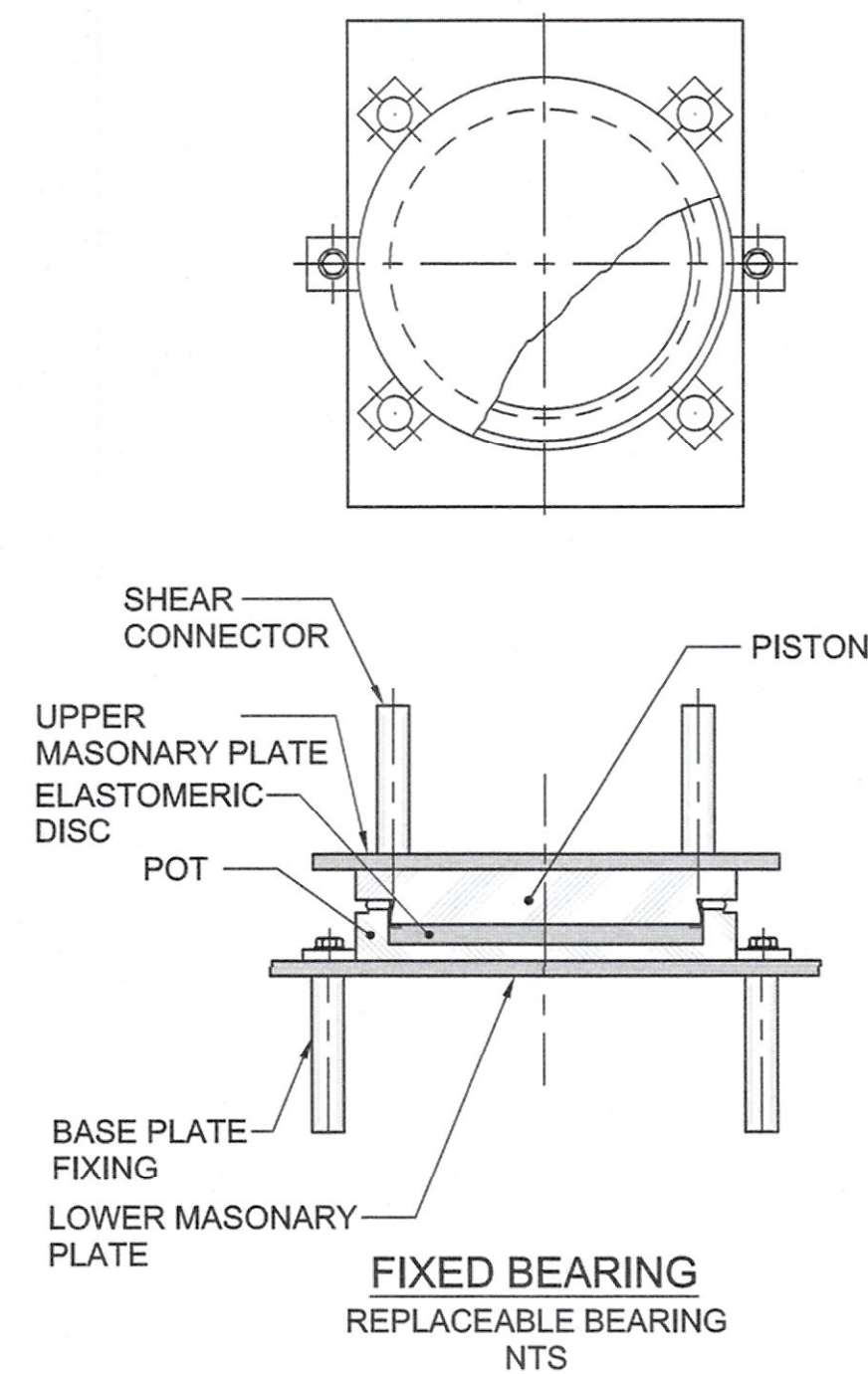
FREE SLIDING BEARING
REPLACEABLE BEARING
NTS



SLIDING GUIDED BEARING
REPLACEABLE BEARING
NTS



BEARING DETAILS (ILLUSTRATION ONLY)
(REPLACEABLE BEARING)
NTS



FIXED BEARING
REPLACEABLE BEARING
NTS

NOTES:

- BEARINGS SHALL HAVE POSITIVE FIXINGS FOR SIMPLE REPLACEMENT.
- FOR ALL BEARINGS, THE BOTTOM PLATE SHALL BE FABRICATED IN ONE CASTING OR MACHINED FROM ONE PIECE.
- SUITABLE DUST PROTECTION TO THE PTFE SURFACES IN THE FORM OF SKIRTING SHALL BE INCORPORATED IN THE BEARING FABRICATION AS SUPPLIED.
- BEARINGS AND ASSOCIATED FIXINGS SHALL BE PROTECTED AGAINST CORROSION AND DETERIORATION, SUCH PROTECTION SHALL BE AT THE DIRECTION OF THE ENGINEER. IN ADDITION BEARINGS SHALL BE SUITABLY WRAPPED FOR PROTECTION DURING STORAGE ON SITE PRIOR TO INSTALLATION.
- AT THE DIRECTION OF THE ENGINEER THE CONTRACTOR SHALL CARRY OUT INDEPENDENT LOAD AND FRICTION TESTING FOR ANY BEARING IN ADDITION TO THOSE TESTS REQUIRED BY THE ENGINEER FOR APPROVAL OF THE SUPPLIER.
- BEARINGS SHALL NOT BE DISMANTLED ON SITE.
- THE METHOD OF BEARING INSTALLATION SHALL BE APPROVED BY THE ENGINEER.
- THE DESIGN OF BEARINGS SHALL BE IN ACCORDANCE WITH AASHTO LRFD BRIDGE SPECIFICATIONS FOR THE LOADS AND MOVEMENTS DESIGNATED IN THE PLANS.
- A FULL SET OF SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PRIOR TO THE FABRICATION OF THE BEARINGS.
- EACH BEARING SHALL BE CLEARLY MARKED WITH AN IDENTIFYING REFERENCE NUMBER AND AN ARROW INDICATING THE ORIENTATION IN THE DIRECTION OF INCREASING CHAINAGE. IN ADDITION LOCAL AXES SHOWN ON THE DRAWING SHALL BE CLEARLY MARKED ON EACH BEARING FOR ACCURATE INSTALLATION.
- ALL BEARINGS SHALL BE PRESET AS REQUIRED IN THE FACTORY WITH CLEARLY MARKED REMOVABLE FIXING PLATES AND SHALL BE INSTALLED WITHOUT FURTHER ADJUSTMENT EXCEPT WHERE DIRECTED BY THE ENGINEER.
- FOR FIXED AND GUIDED BEARINGS, HORIZONTAL FORCES TAKEN INTO CONSIDERATION SHOULD NOT BE LESS THAN 10% OF THE MAXIMUM VERTICAL LOAD.
- IF THE HORIZONTAL LOAD EXCEEDS THE FRICTION BETWEEN BEARINGS & CONCRETE UNDER MINIMUM VERTICAL LOAD SPECIAL DOWELS SHOULD BE PROVIDED TO RESIST THE HORIZONTAL LOAD.
- IN ADDITION TO THE GIVEN TECHNICAL CONDITIONS THE DESIGN, MANUFACTURE & ALL MATERIALS OF BEARINGS AND EXPANSION JOINTS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS.
- SLIDING BEARING SHALL BE CAPABLE OF PROVIDING THE FULL ANTICIPATED MOVEMENT PLUS AN ADDITION OF 25mm IN EITHER DIRECTION TO ALLOW FOR CONSTRUCTION TOLERANCE.
- SOLID ARROWS ON BEARINGS INDICATE POSITIVE DIRECTION OF TRANSLATION.

STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And Maintenance Of Roads And Interchanges For New Terminal Building In Kuwait International Airport At Magwa Road RA268/

CONSULTANT:

ORIENTAL CONSULTANTS
COMPANY LIMITED

IN ASSOCIATION WITH:

Dar Al-Dowailah
Engineering Consultants & Construction Managers

LOCATION PLAN
NOT TO SCALE

LEGEND

→ - G (SLIDING GUIDED BEARING)

→ - S (FREE SLIDING BEARING)

● - F (FIXED BEARING)

INSAT SANATIVE TICARET A.Ş.
Halkın Beklenmesi İçin
Ticari Ürünler ve Hizmetler
Ticari Ürünler ve Hizmetler

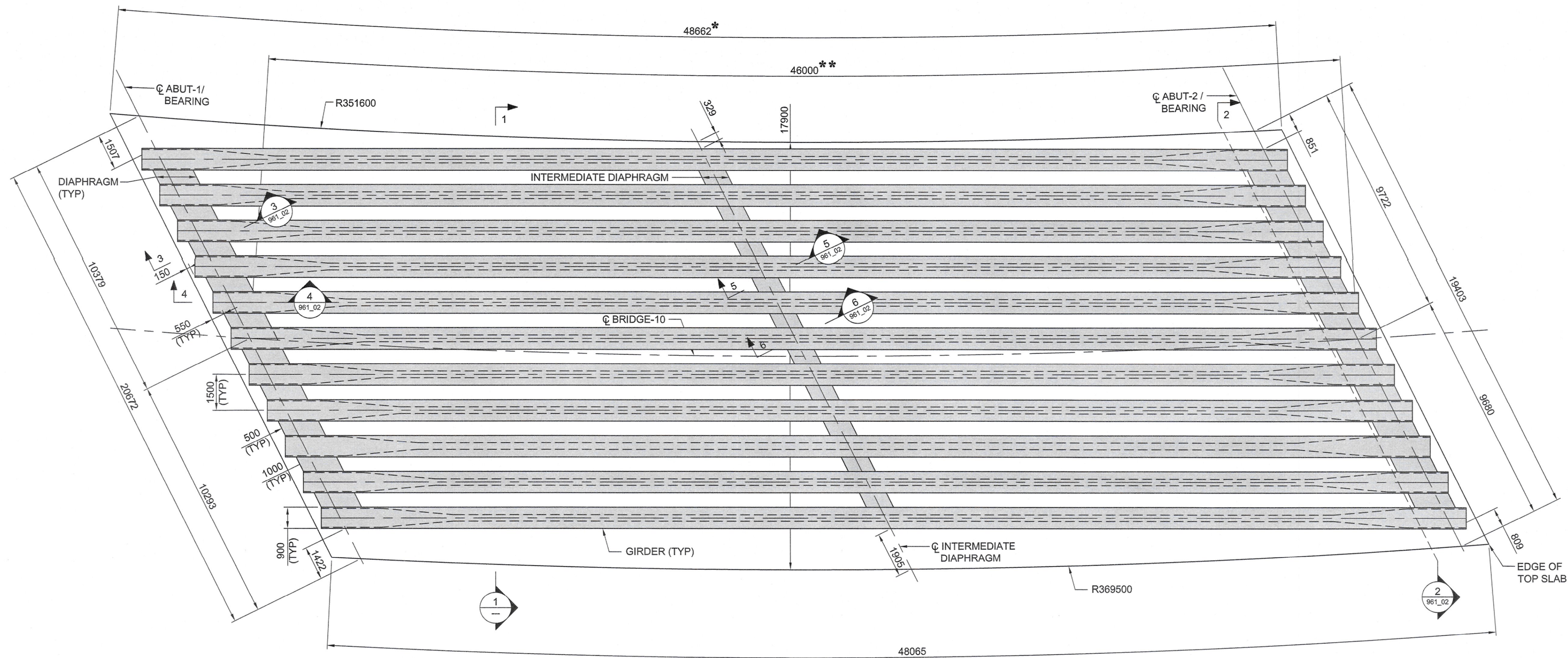
Rev. No.	Date	Description	By

DRAWING TITLE:

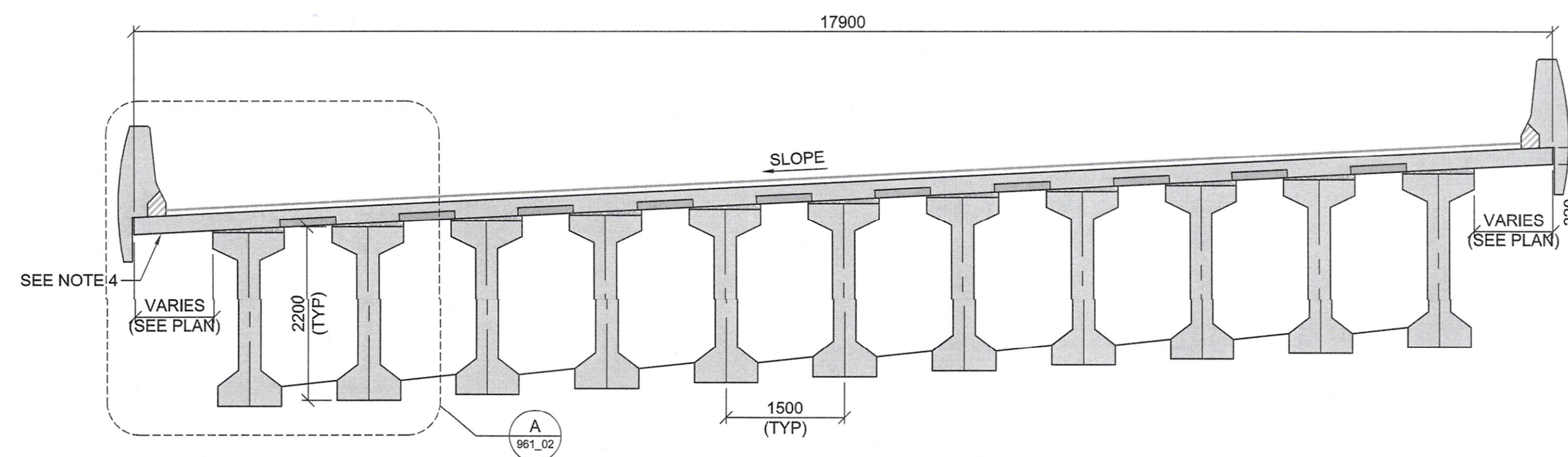
**BRIDGE - 10
BEARING LAYOUT PLAN**

DRAWING NO: ST_00_BR_0951_01

DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	MA	APPROVED BY:	AZ



TOP SLAB PLAN
 SCALE 1:100 (A1), 1:200 (A3)
 * SPAN DIMENSIONS ARE MEASURED ALONG BRIDGE CENTERLINE
 ** DIMENSIONS ARE MEASURED PERPENDICULAR TO BRIDGE CENTERLINE



1 SECTION
 SCALE 1:50 (A1), 1:100 (A3)

CLIENT:



STATE OF KUWAIT
 MINISTRY OF PUBLIC WORKS
 ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And
 Maintenance Of Roads And
 Interchanges For New Terminal Building
 In Kuwait International Airport At
 Magwa Road RA268/

CONSULTANT:



ORIENTAL CONSULTANTS
 COMPANY LIMITED

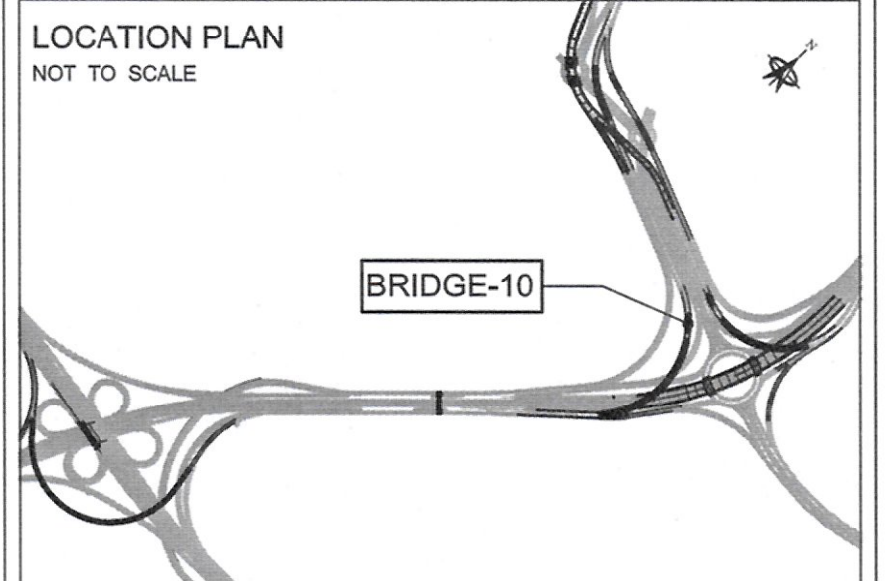
IN ASSOCIATION WITH:



Dar Al-Dowailah
 Engineering Consultants
 & Construction Managers

LOCATION PLAN

NOT TO SCALE



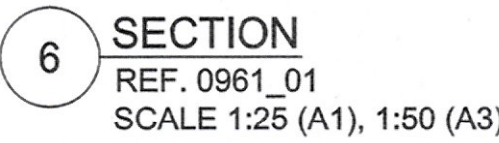
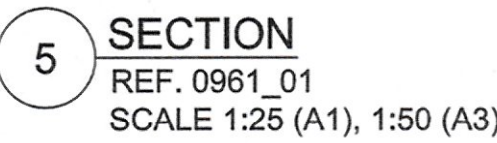
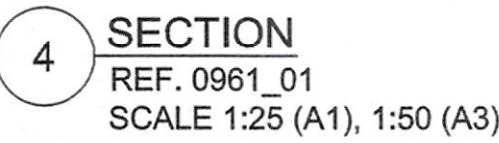
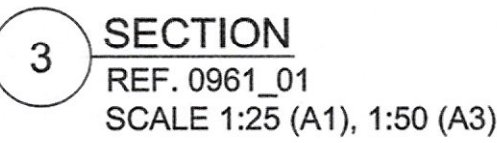
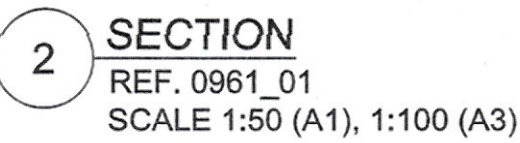
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL NOTES, MISCELLANEOUS, HIGHWAY AND UTILITY DRAWINGS.
3. DECK CROSS SLOPE SHOWN IS INDICATIVE ONLY.
4. FORMWORK OF DECK OVERHANG TO BE SUPPORTED BY EXTERIOR GIRDER.



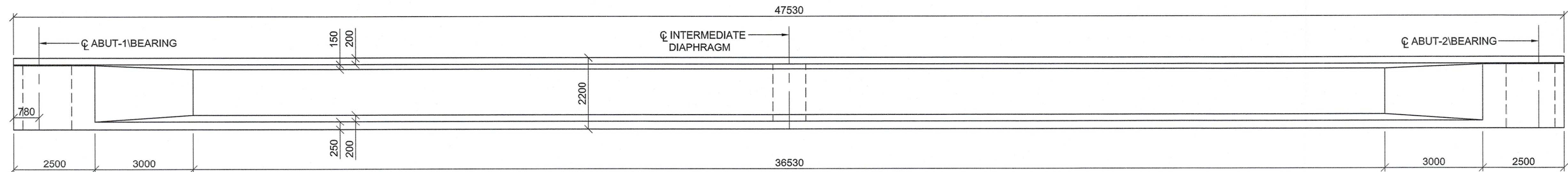
LIMAK
 İNŞAAT SANAYİ VE TİCARET A.Ş.
 Hürriyet Sokak No: 9 G.O.P. / ANKARA
 Tel: 0312 448 88 00 (10 Hat)
 Ankara Kurumlar Y.D. 0655002453

Rev. No.	Date	Description	By
DRAWING TITLE:			
BRIDGE - 10 SUPERSTRUCTURE DIMENSIONAL DETAILS (SHEET-01)			
DRAWING NO: ST_00_BR_0961_01			
DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	SBB	APPROVED BY:	AZ

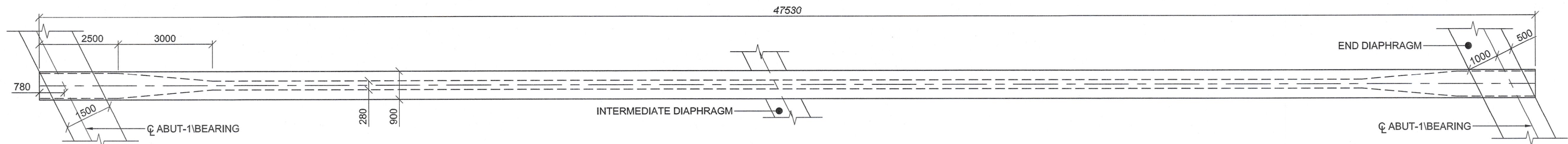


DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	SBB	APPROVED BY:	AZ

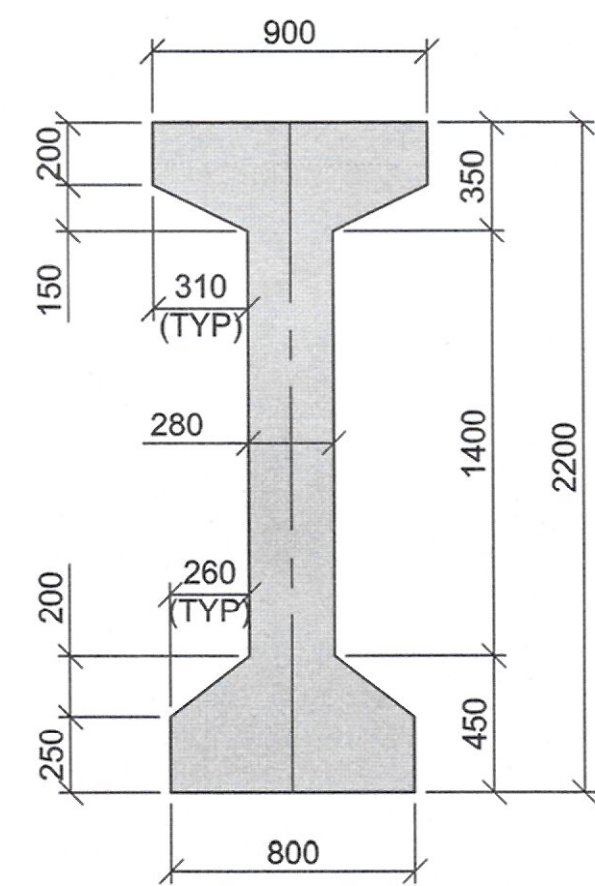




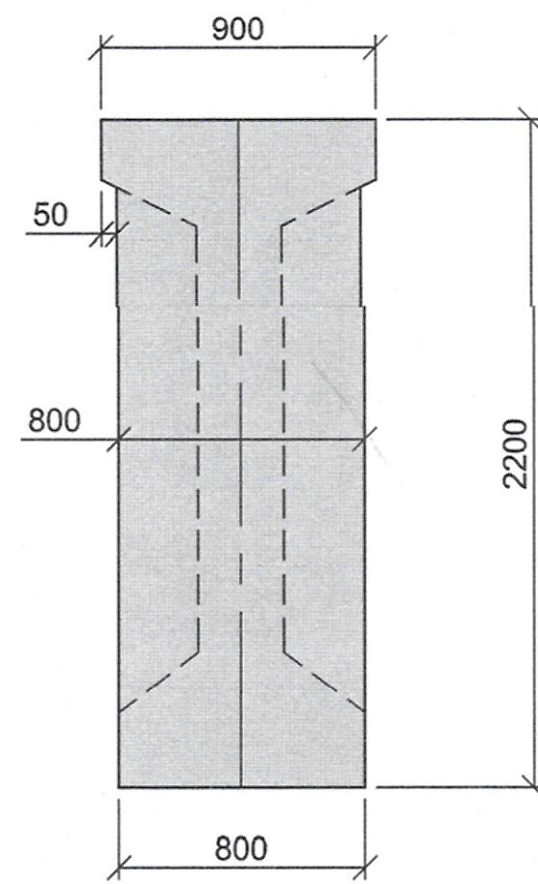
GIRDER ELEVATION
SCALE 1:75 (A1), 1:150 (A3)



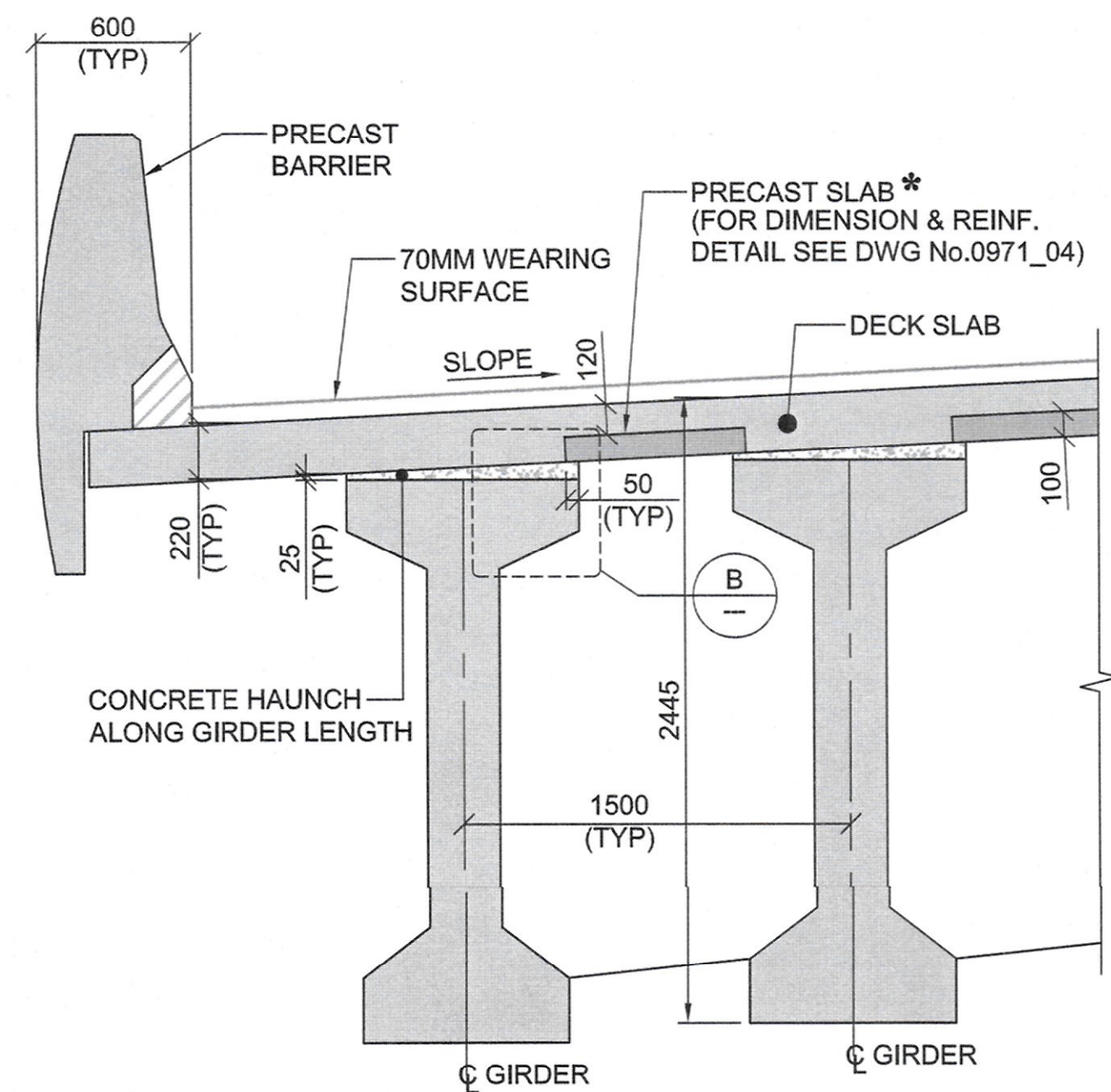
GIRDER TOP PLAN
SCALE 1:75 (A1), 1:150 (A3)



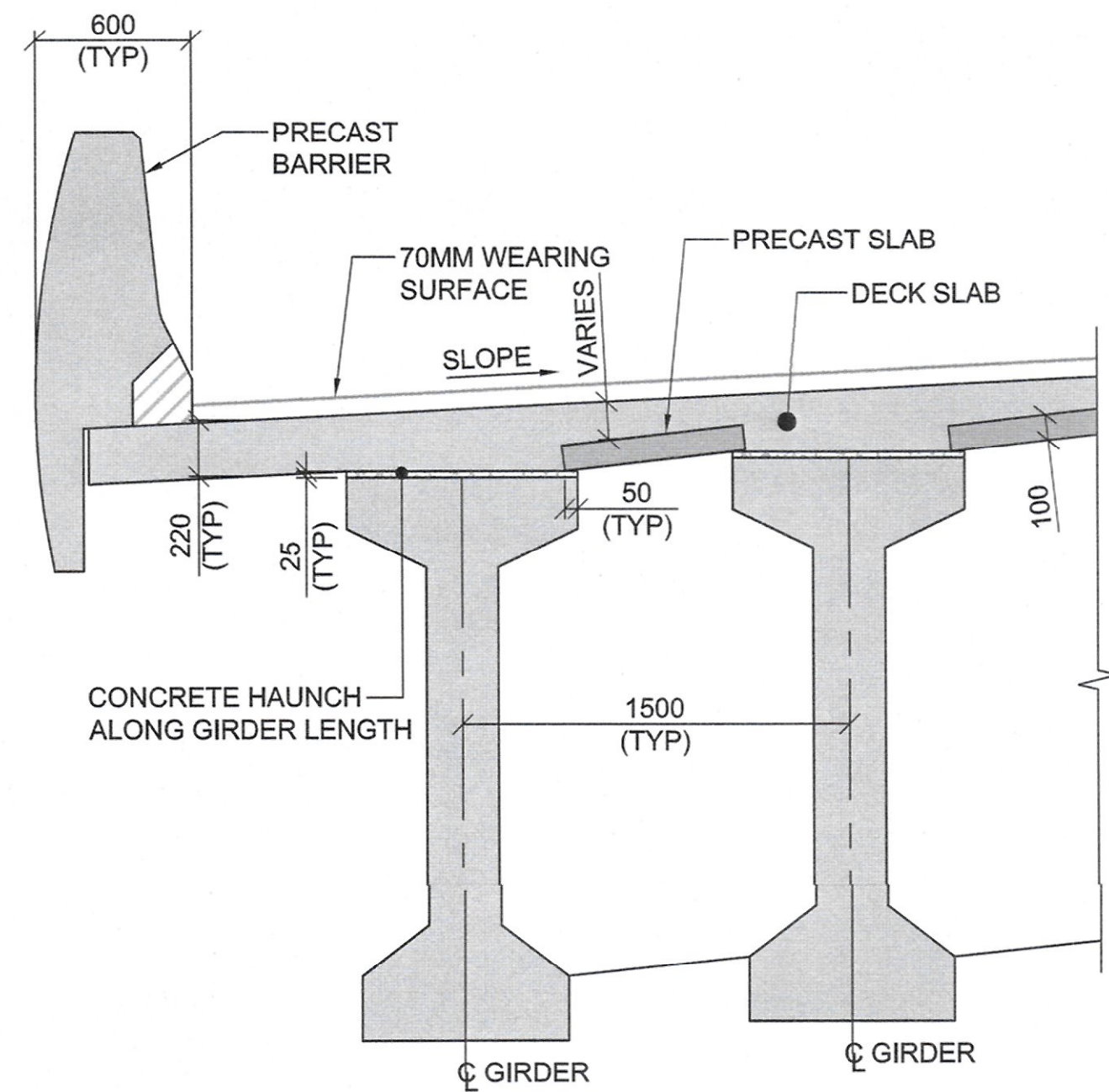
PRECAST GIRDER AT MID
SCALE 1:25 (A1), 1:50 (A3)



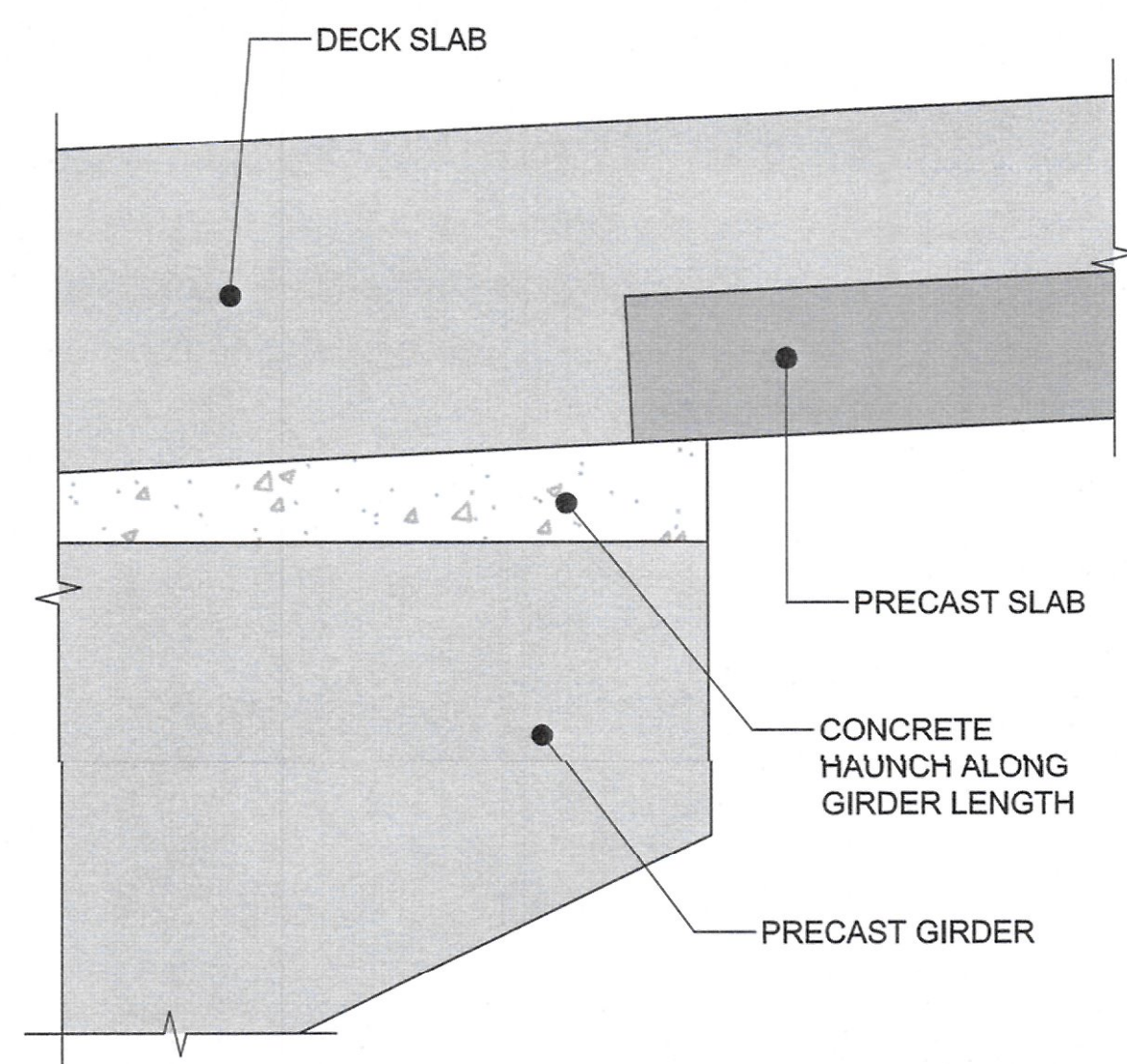
PRECAST GIRDER AT SUPPORT
SCALE 1:25 (A1), 1:50 (A3)



DETAIL A
REF. 0961_01
SCALE 1:25 (A1), 1:50 (A3)
* SURFACE OF PRECAST SLAB TO BE INTENTIONALLY ROUGHENED TO 6MM.



DETAIL A (ALTERNATIVE OPTION)
REF. 0961_01
SCALE 1:25 (A1), 1:50 (A3)



DETAIL B
SCALE 1:5 (A1), 1:10 (A3)

CLIENT:



STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And
Maintenance Of Roads And
Interchanges For New Terminal Building
In Kuwait International Airport At
Magwa Road RA268/

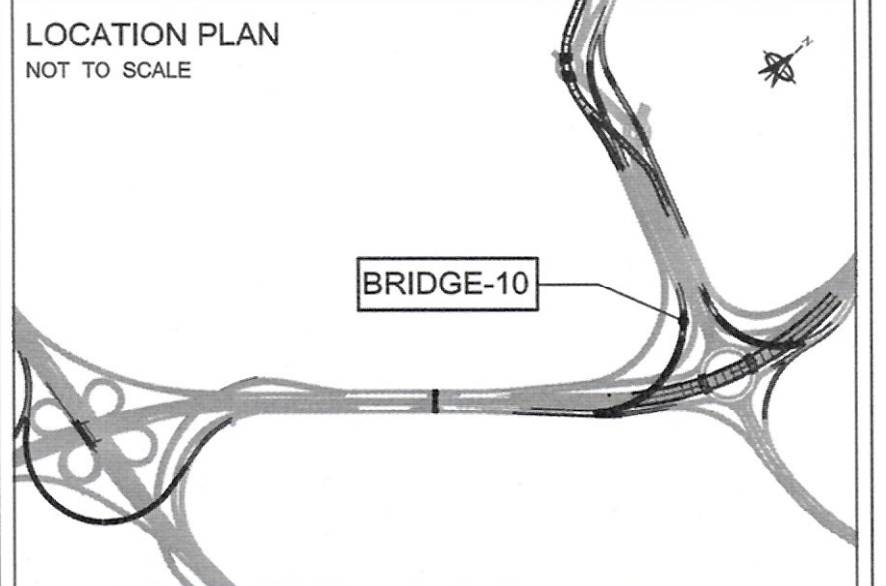
CONSULTANT:



IN ASSOCIATION WITH:



LOCATION PLAN
NOT TO SCALE



NOTES:

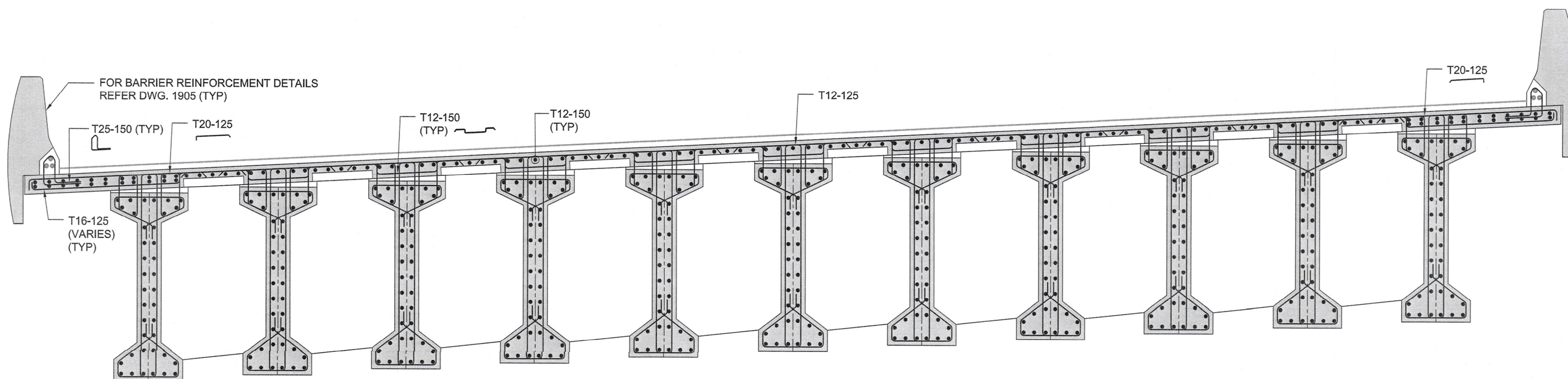
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL NOTES, MISCELLANEOUS, HIGHWAY AND UTILITY DRAWINGS.
3. DECK CROSS SLOPE SHOWN IS INDICATIVE ONLY.

Rev. No.	Date	Description	By

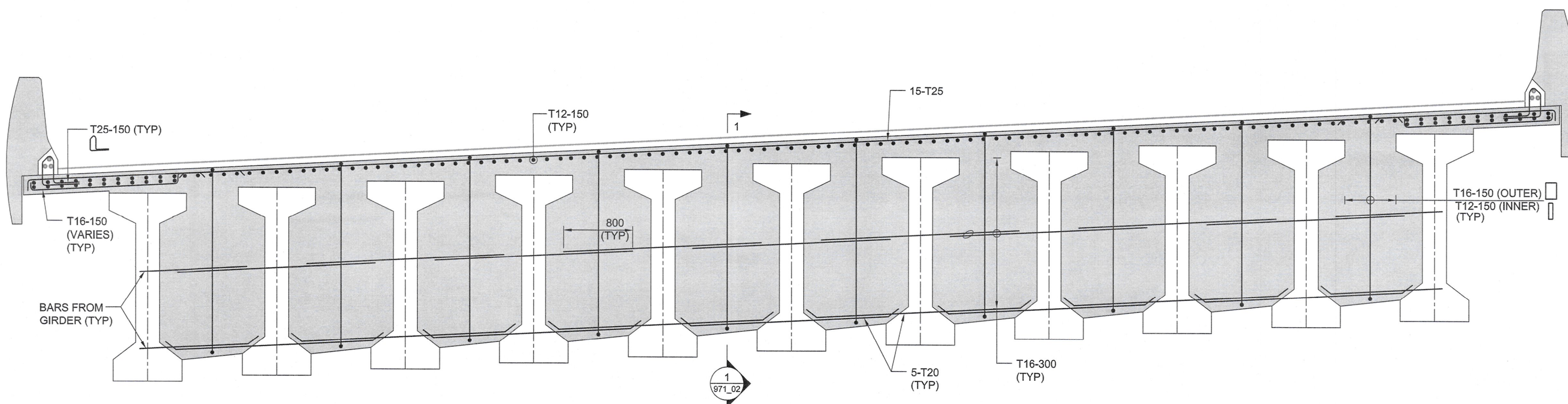
DRAWING TITLE:
BRIDGE - 10
SUPERSTRUCTURE
DIMENSIONAL DETAILS (SHEET-03)

DRAWING NO: ST_00_BR_0961_03

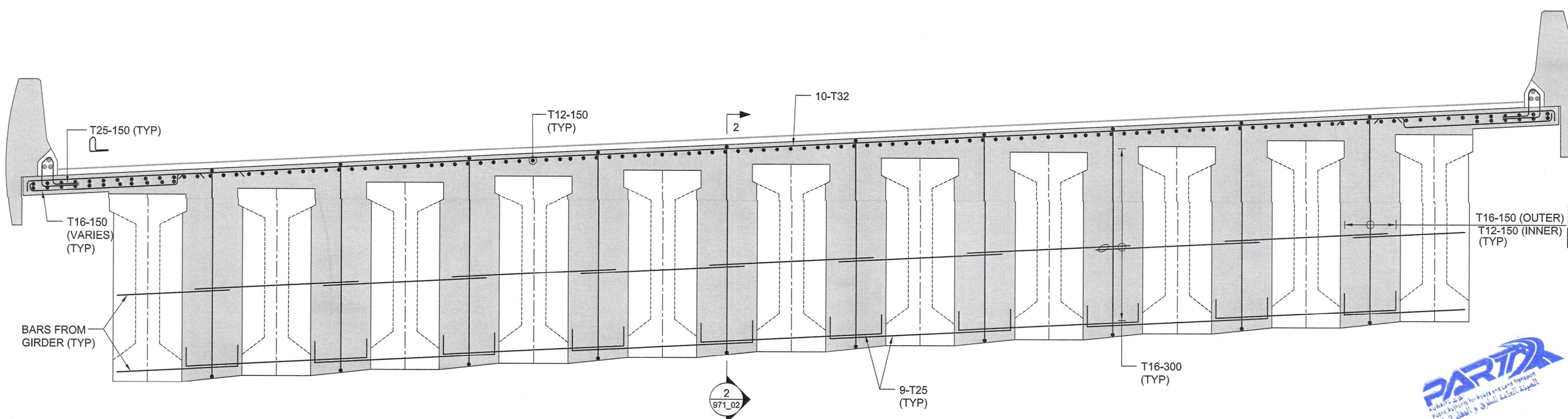
DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	SBB	APPROVED BY:	AZ



TYPICAL SECTION
SCALE 1:30 (A1), 1:60 (A3)



INTERMEDIATE DIAPHRAGM SECTION
SCALE 1:30 (A1), 1:60 (A3)



TYPICAL DIAPHRAGM SECTION
SCALE 1:30 (A1), 1:60 (A3)

CLIENT:



STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And
Maintenance Of Roads And
Interchanges For New Terminal Building
In Kuwait International Airport At
Magwa Road RA268/

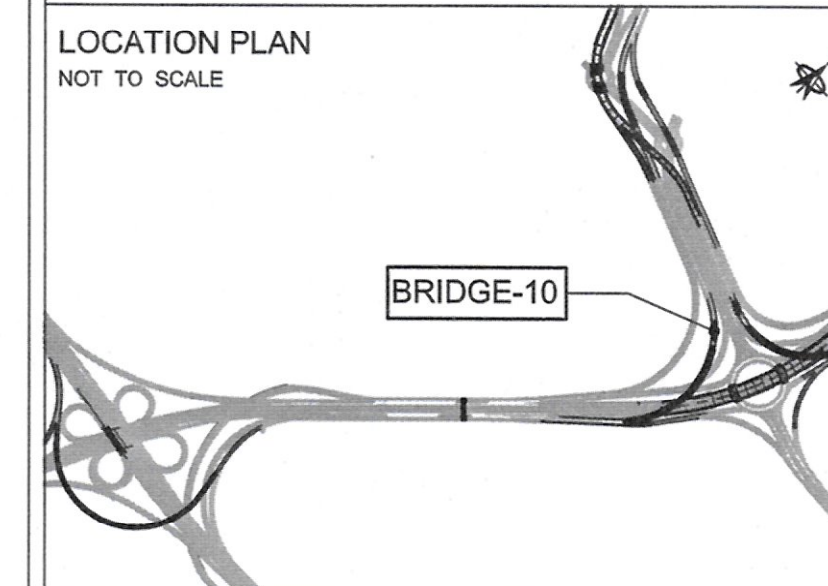
CONSULTANT:



IN ASSOCIATION WITH:



LOCATION PLAN
NOT TO SCALE



NOTES:

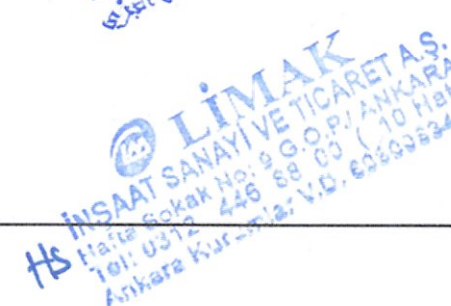
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL NOTES, MISCELLANEOUS DRAWINGS.
3. FOR LOCAL ZONE REINFORCEMENT CONTRACTOR MUST PROVIDE THE DETAILS OF REINFORCEMENT REQUIRED FOR THE APPROVED POST TENSIONING SYSTEM.
4. JACK LOCATION SHALL BE PROPERLY ETCHED AT THE BOTTOM OF THE EACH DIAPHRAGM.
5. ALL LAPS SHALL BE STAGGERED UNLESS NOTED OTHERWISE.

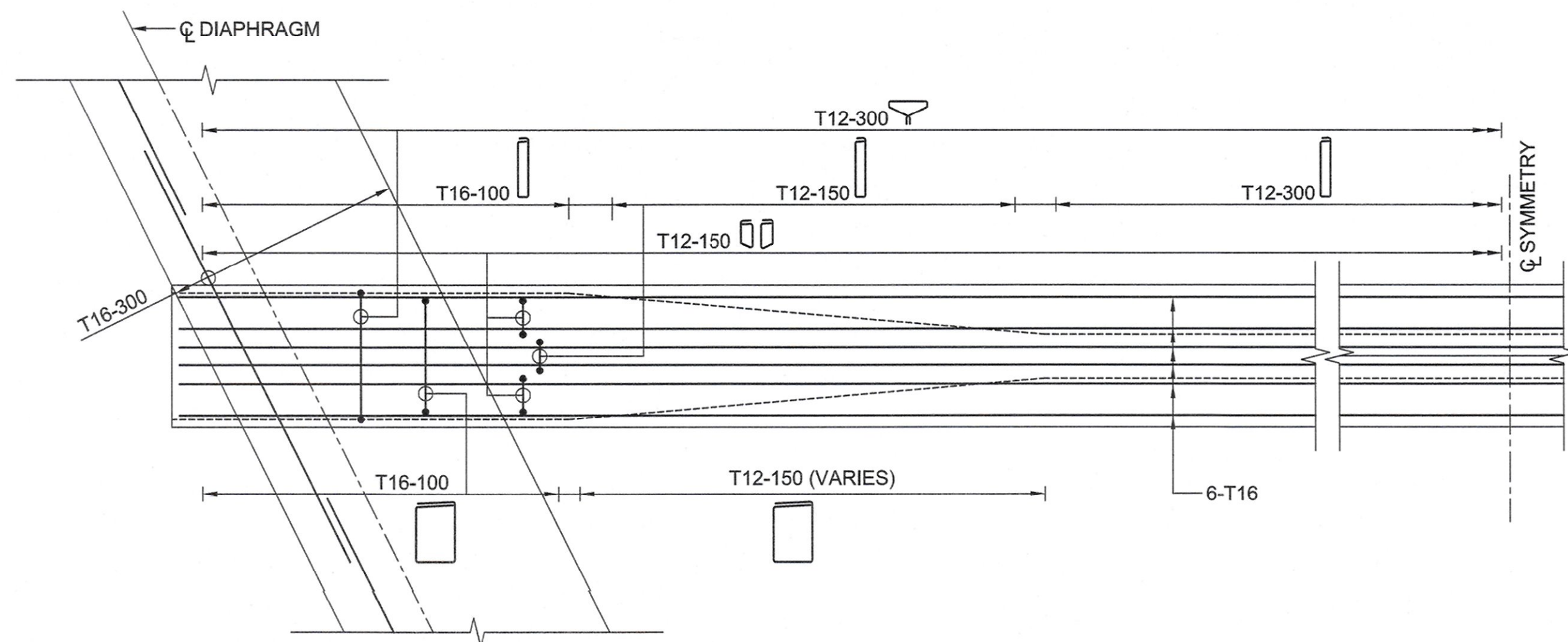
Rev. No.	Date	Description	By

DRAWING TITLE:
BRIDGE - 10
SUPERSTRUCTURE
REINFORCEMENT DETAILS (SHEET-01)

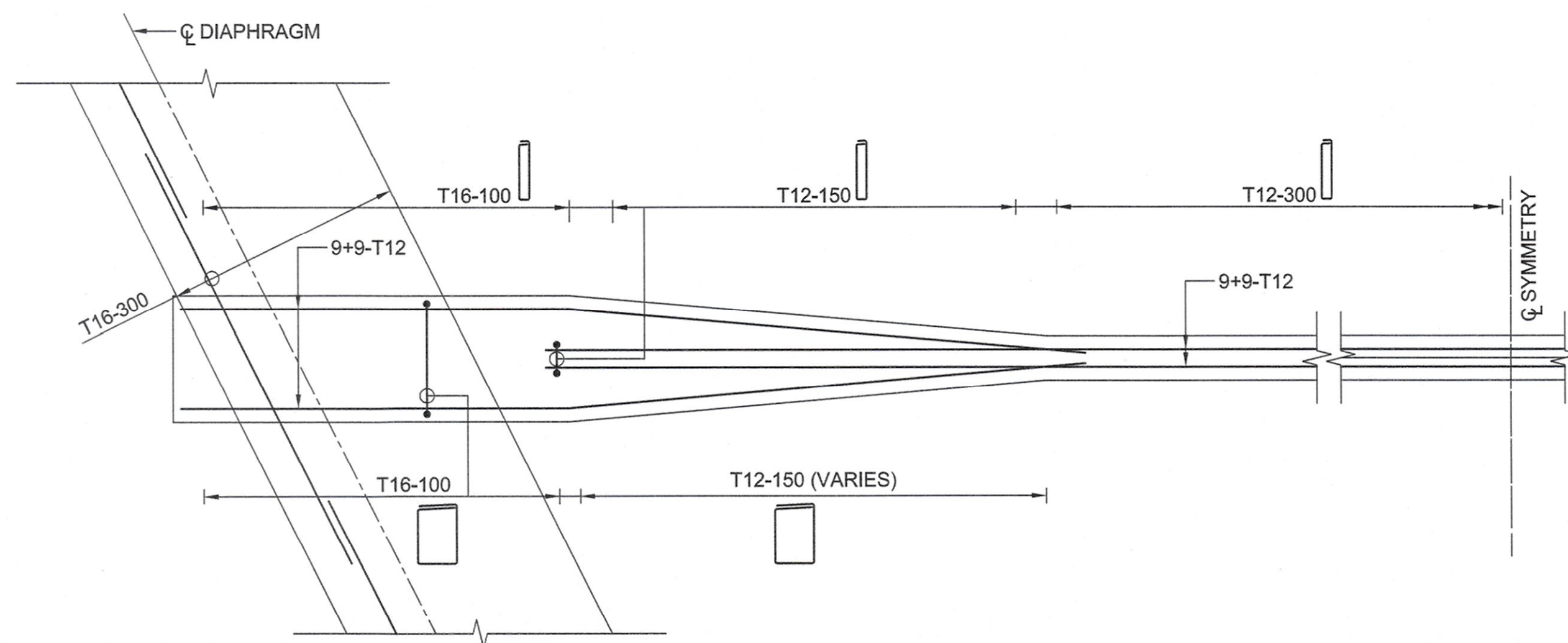
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DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	SBB	APPROVED BY:	AZ

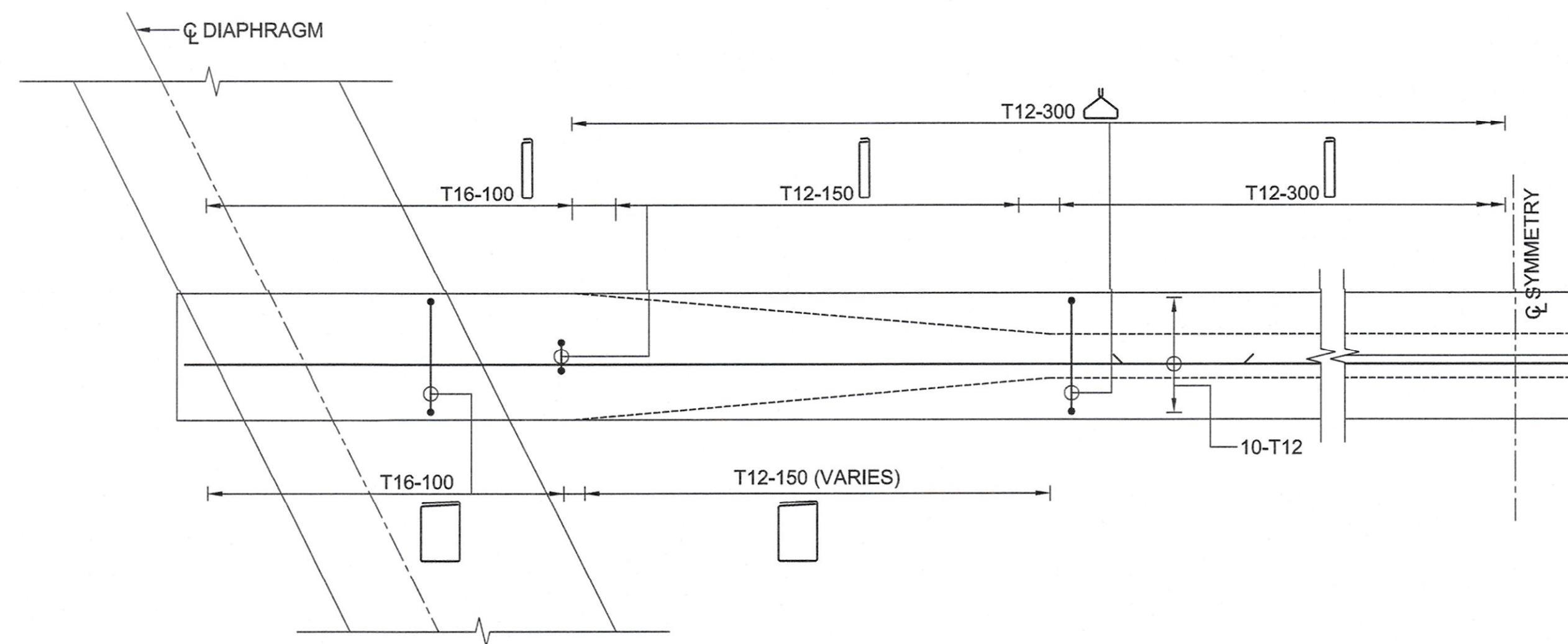




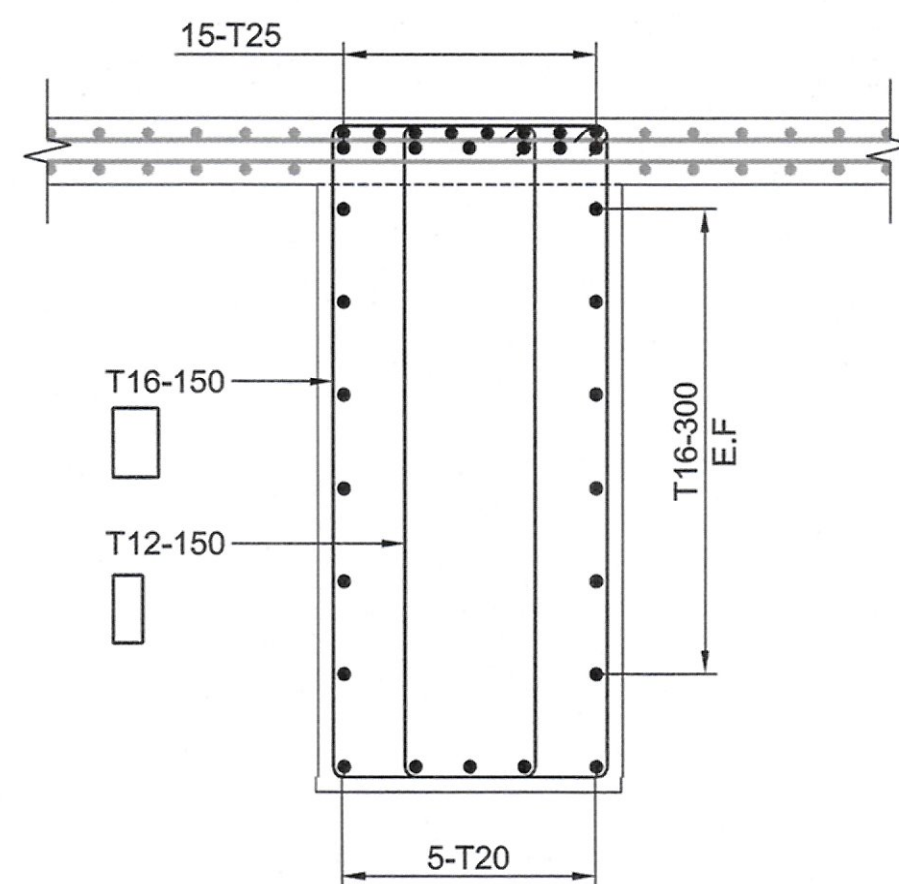
3 SECTION
SCALE 1:30 (A1), 1:60 (A3)



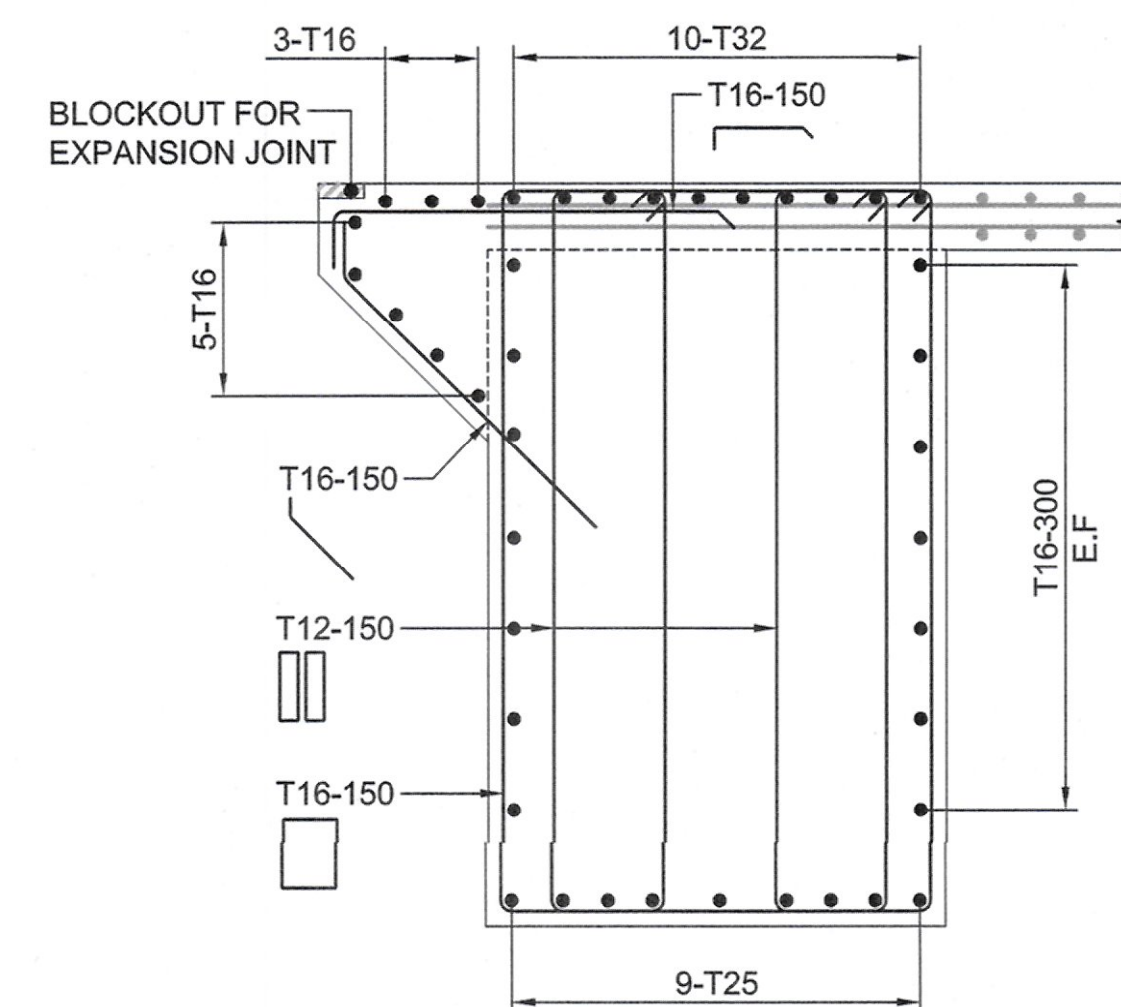
4 SECTION
SCALE 1:30 (A1), 1:60 (A3)



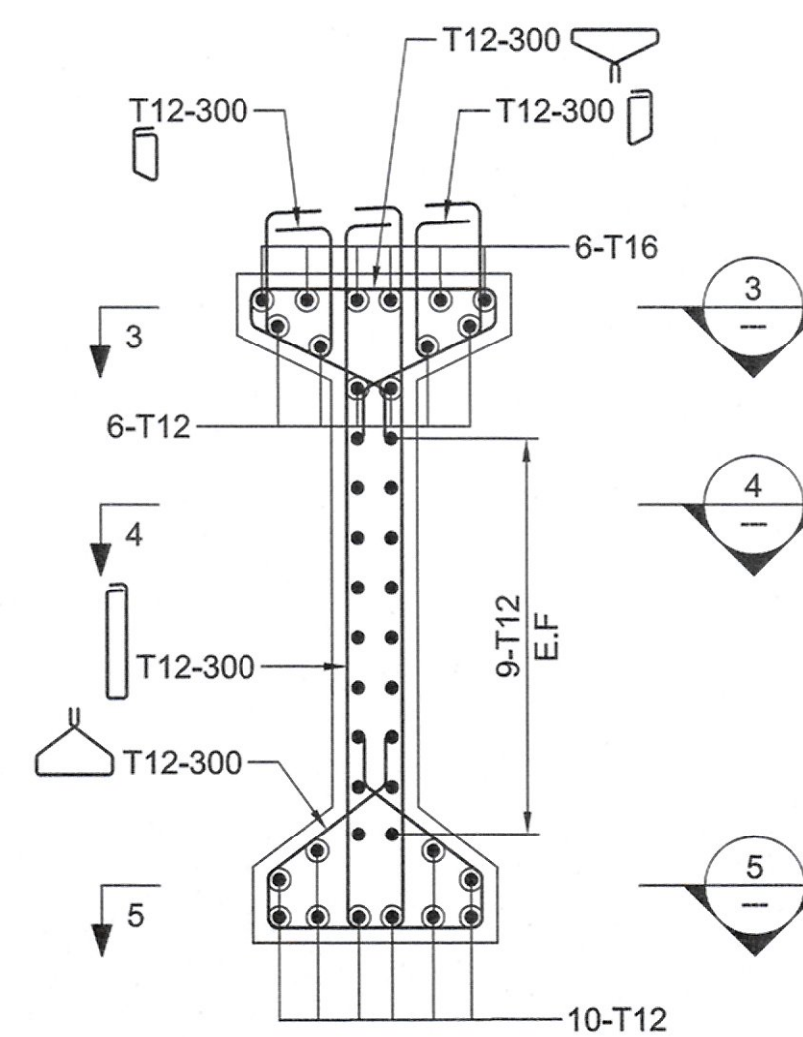
5 SECTION
SCALE 1:30 (A1), 1:60 (A3)



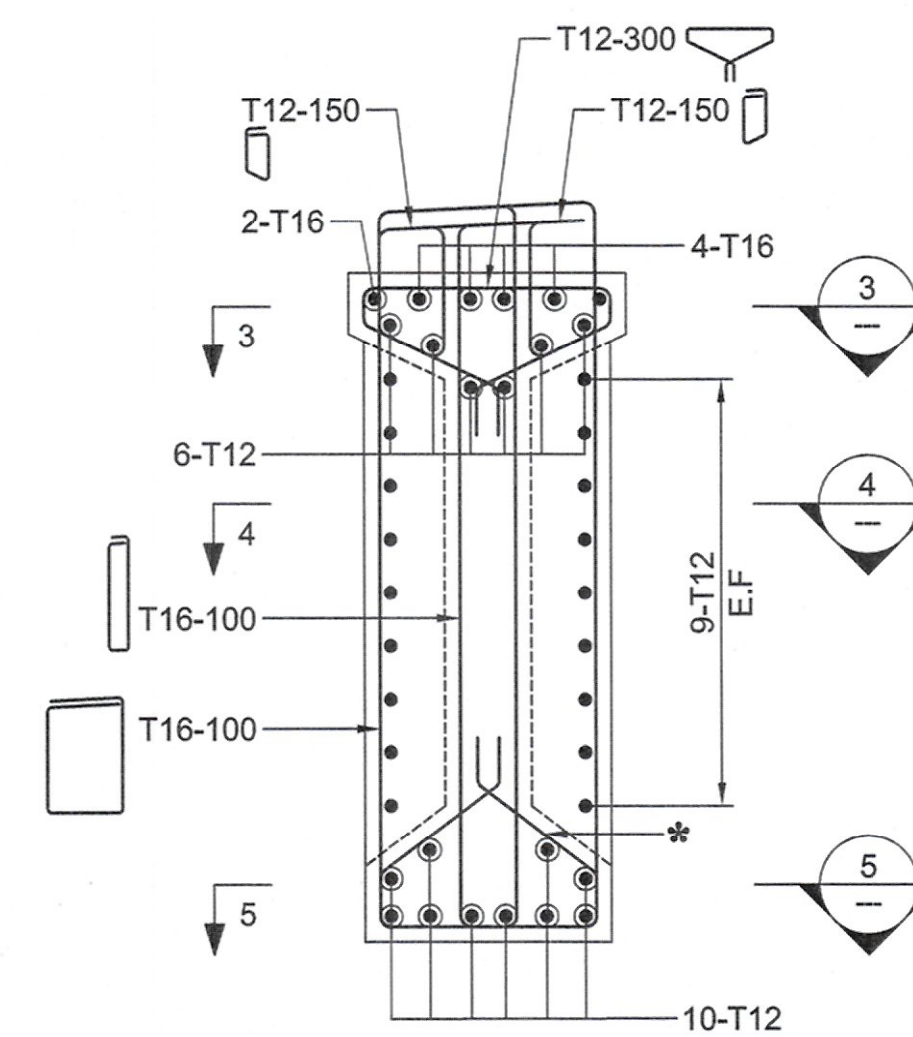
1 SECTION
REF. 0971_01
SCALE 1:25 (A1), 1:50 (A3)



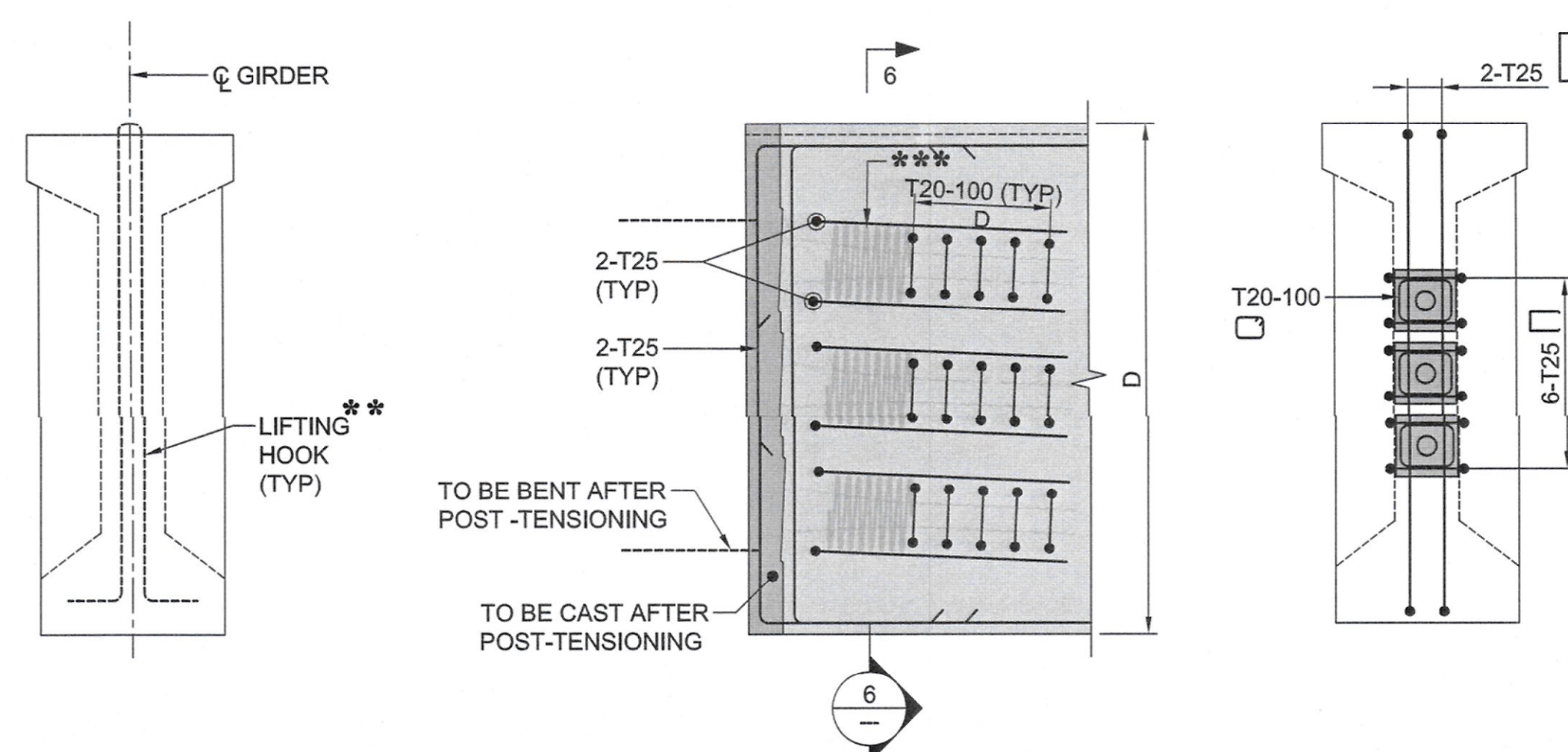
2 SECTION
REF. 0971_01
SCALE 1:25 (A1), 1:50 (A3)



PRECAST GIRDER AT MID SPAN
SCALE 1:25 (A1), 1:50 (A3)



PRECAST GIRDER AT SUPPORT
SCALE 1:25 (A1), 1:50 (A3)
* APPLICABLE AT ONLY TRANSITION AREA



DETAILS OF LIFTING HOOK
SCALE 1:25 (A1), 1:50 (A3)
** TO BE DESIGNED AND DETAILED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL

ANCHORAGE REINFORCEMENT DETAIL
SCALE 1:25 (A1), 1:50 (A3)
*** FOR LOCAL ZONE REINFORCEMENT CONTRACTOR MUST PROVIDE THE DETAILS OF REINFORCEMENT REQUIRED FOR THE APPROVAL POST TENSIONING SYSTEM

6 SECTION
SCALE 1:25 (A1), 1:50 (A3)

CLIENT:

STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And Maintenance Of Roads And Interchanges For New Terminal Building In Kuwait International Airport At Magwa Road RA268/

CONSULTANT:

ORIENTAL CONSULTANTS
COMPANY LIMITED

IN ASSOCIATION WITH:

Dar Al-Dowailah
Engineering Consultants & Construction Managers

LOCATION PLAN
NOT TO SCALE

BRIDGE-10

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
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- FOR LOCAL ZONE REINFORCEMENT CONTRACTOR MUST PROVIDE THE DETAILS OF REINFORCEMENT REQUIRED FOR THE APPROVED POST TENSIONING SYSTEM.
- JACK LOCATION SHALL BE PROPERLY ETCHED AT THE BOTTOM OF THE EACH DIAPHRAGM.
- ALL LAPS SHALL BE STAGGERED UNLESS NOTED OTHERWISE.

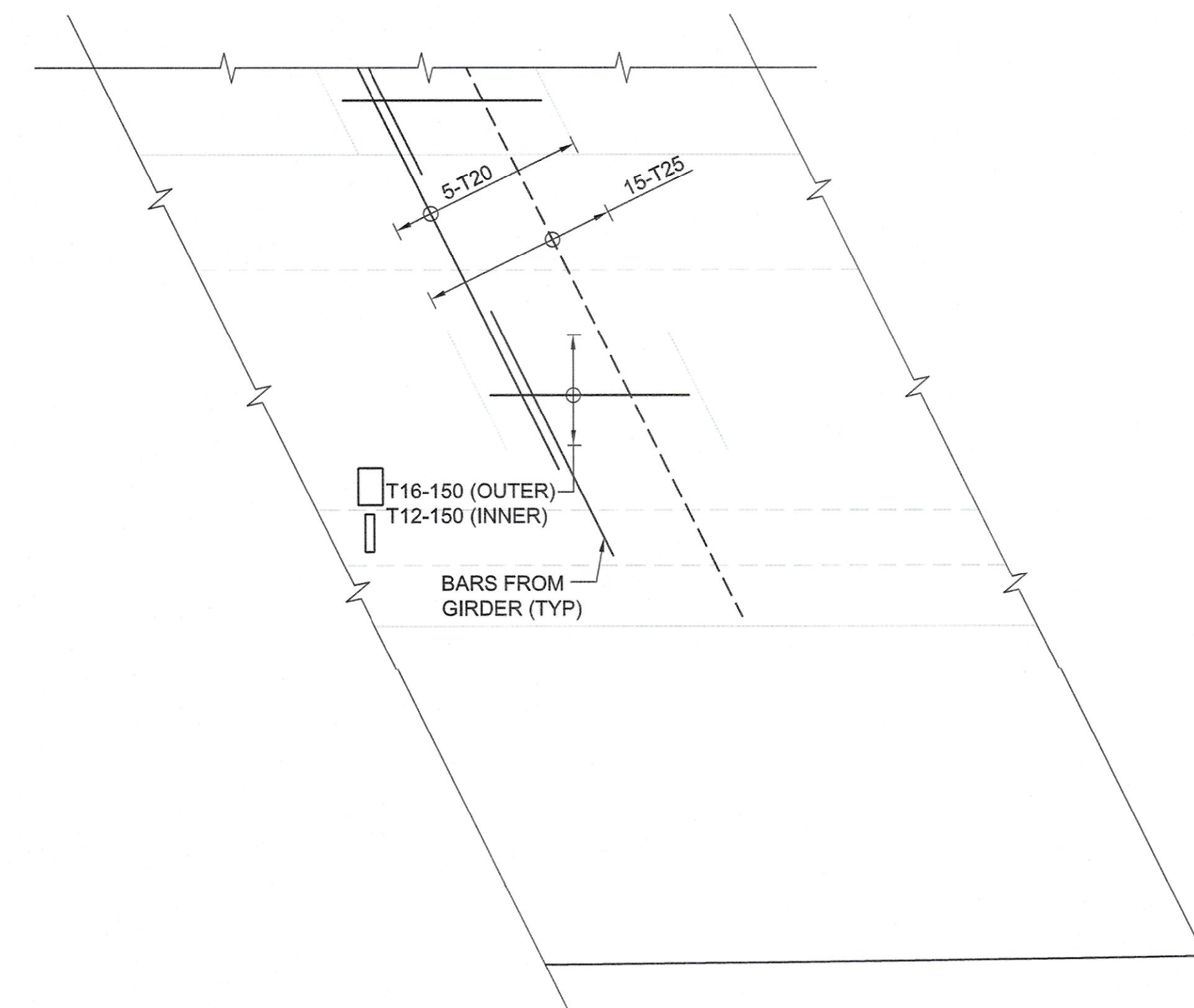
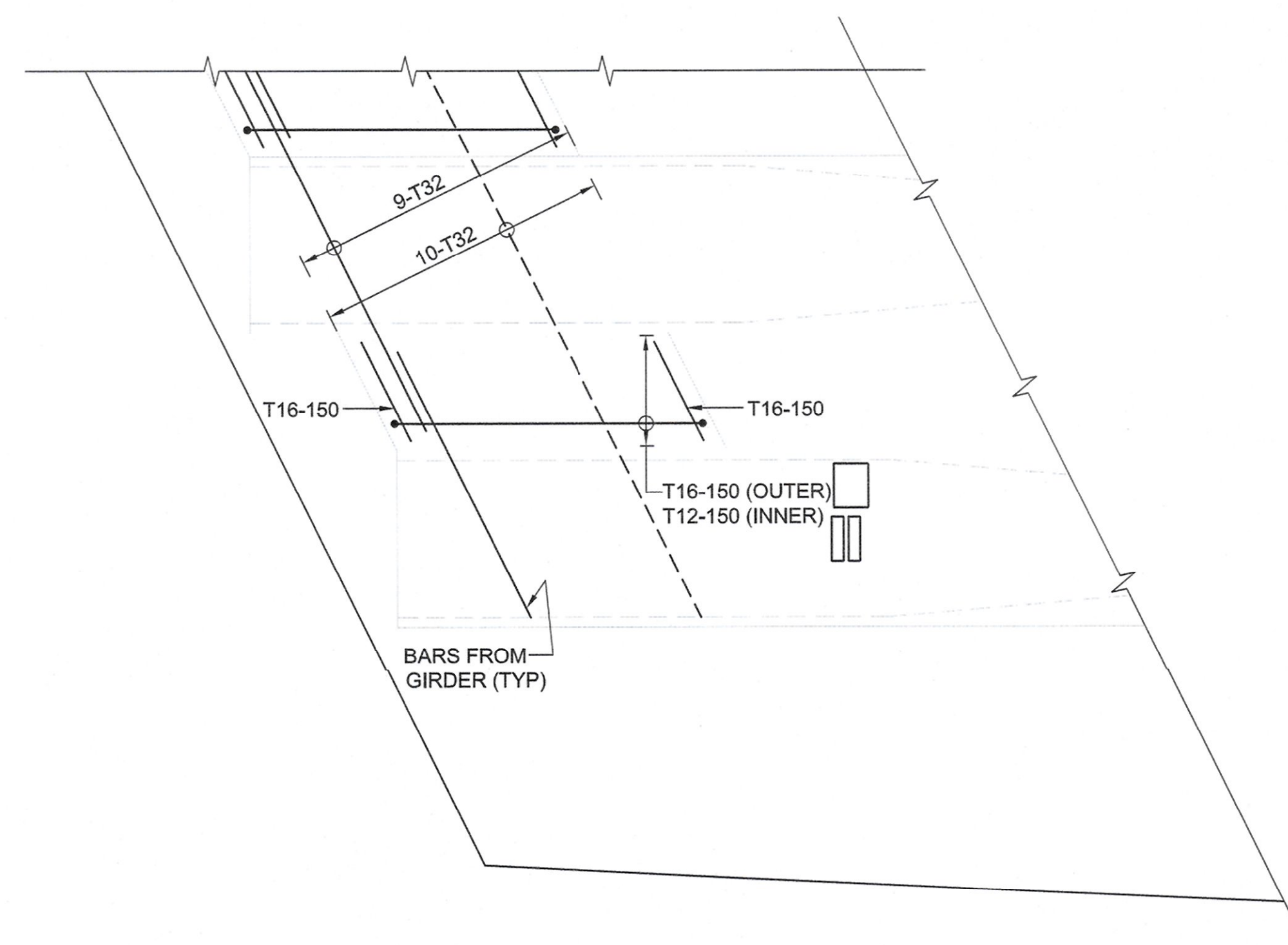
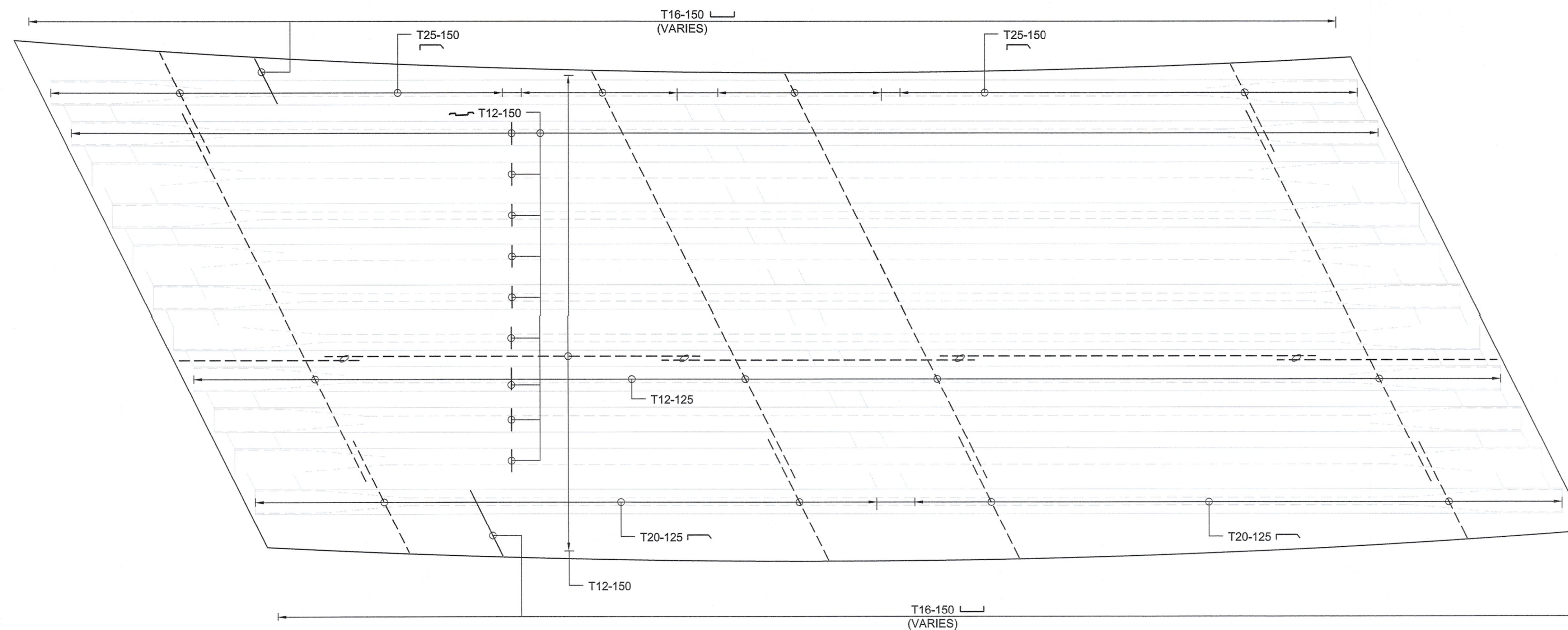
Rev. No.	Date	Description	By

DRAWING TITLE:

BRIDGE - 10
SUPERSTRUCTURE
REINFORCEMENT DETAILS (SHEET-02)

DRAWING NO: ST_00_BR_0971_02

DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	SBB	APPROVED BY:	AZ



CLIENT:



STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And
Maintenance Of Roads And
Interchanges For New Terminal Building
In Kuwait International Airport At
Magwa Road RA268/

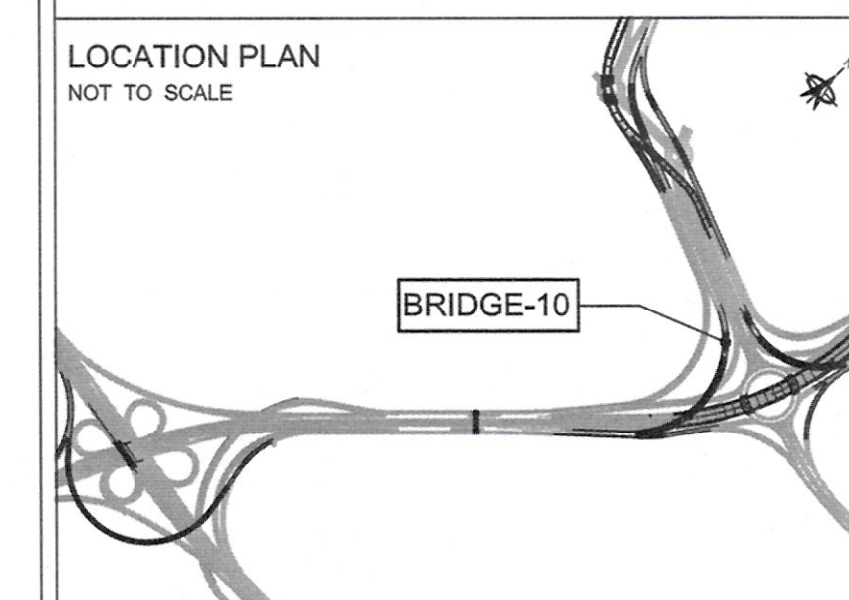
CONSULTANT:



IN ASSOCIATION WITH:



LOCATION PLAN
NOT TO SCALE



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL NOTES, MISCELLANEOUS DRAWINGS.
3. FOR LOCAL ZONE REINFORCEMENT CONTRACTOR MUST PROVIDE THE DETAILS OF REINFORCEMENT REQUIRED FOR THE APPROVED POST TENSIONING SYSTEM.
4. JACK LOCATION SHALL BE PROPERLY ETCHED AT THE BOTTOM OF THE EACH DIAPHRAGM.
5. ALL LAPPS SHALL BE STAGGERED UNLESS NOTED OTHERWISE.

LEGEND:

----- TOP REINFORCEMENT

—— BOTTOM REINFORCEMENT

Rev. No.	Date	Description	By


NO.	
DRAWING TITLE:	

BRIDGE - 10
SUPERSTRUCTURE
REINFORCEMENT DETAILS (SHEET-03)

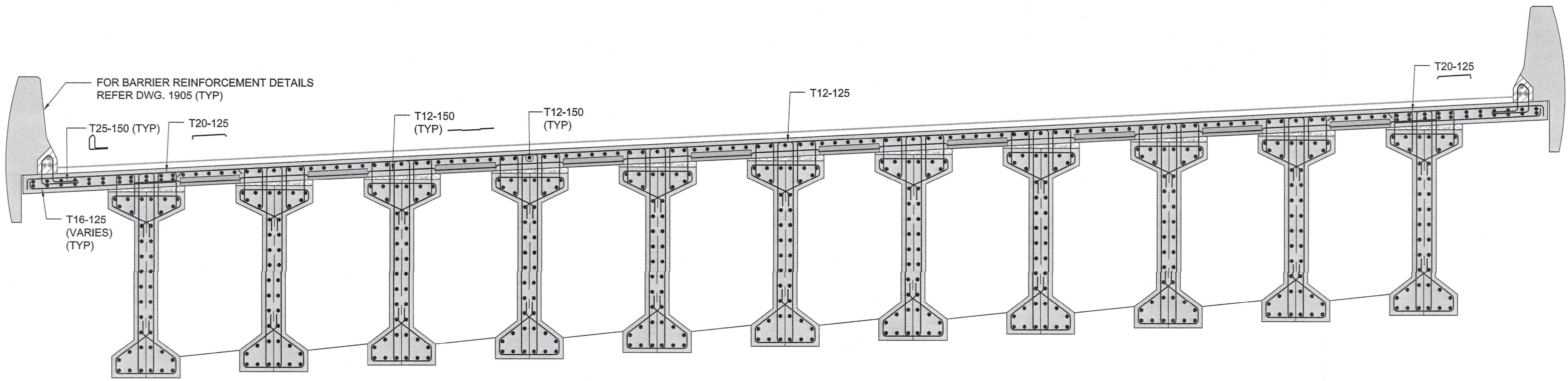
DRAWING NO: ST 00 BR 0971 03

DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	SBB	APPROVED BY:	AZ

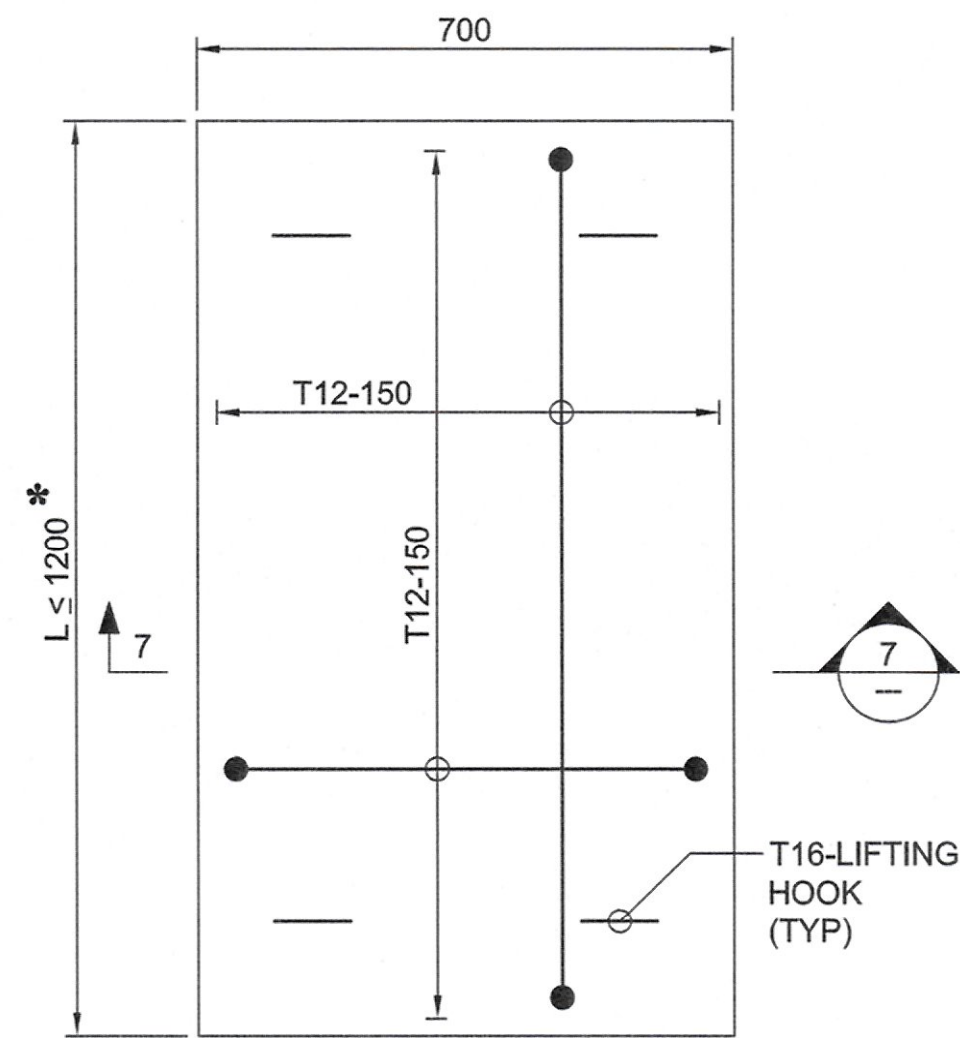
user: thoombl, maozzer
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Date: Mon May 29 2016, 3:26pm

HS  **İMİAK**
İNSAAT SANAYİ VE TİCARET A.Ş.
Hafız Sokak No: 8 G.O.P. ANKARA
Tel: 0312 445 88 00 (10 Hattı)
Ankara Kurumlar Yür. 644653

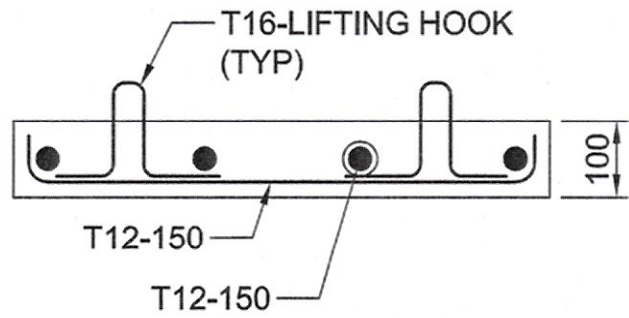
PART 2
Public Accounts for Kings and Lane Pearson
المحاسبة العامة للملك والبنوك



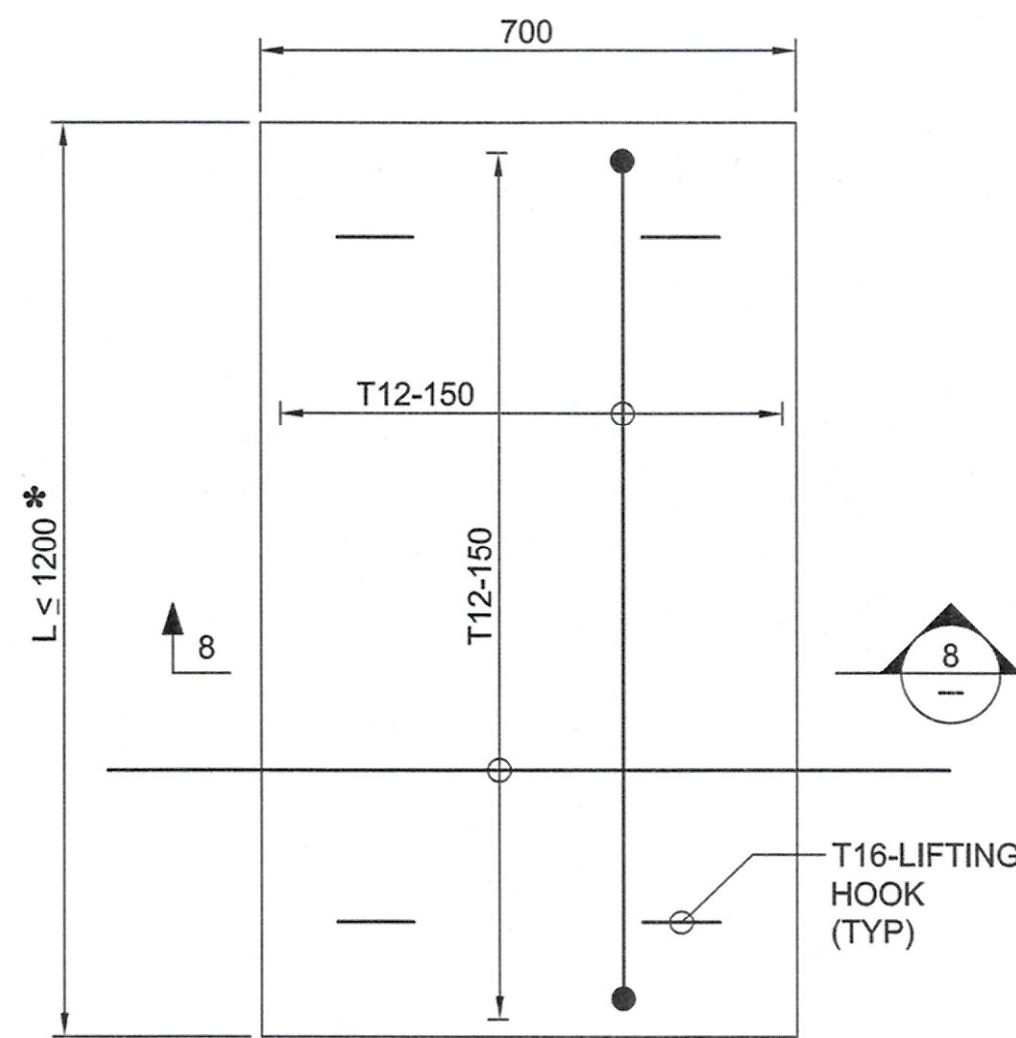
TYPICAL SECTION (ALTERNATIVE OPTION)
SCALE 1:30 (A1), 1:60 (A3)



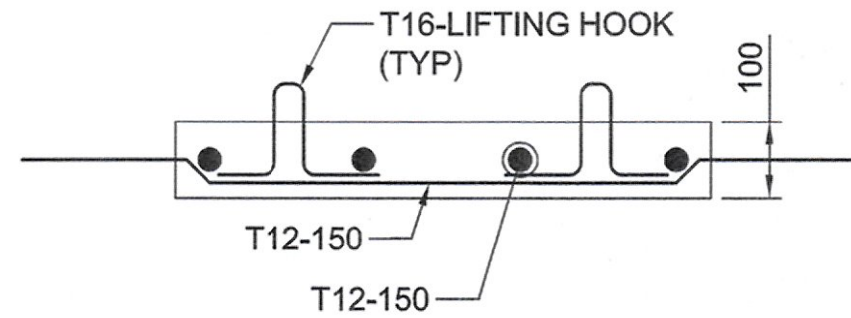
REINFORCEMENT DETAIL PRECAST SLAB
SCALE 1:10 (A1), 1:20 (A3)
* LENGTH OF THE PRECAST SLAB PANEL SHALL BE AS PER THE SITE CONDITION



7 SECTION
SCALE 1:10 (A1), 1:20 (A3)



REINFORCEMENT DETAIL PRECAST SLAB (ALTERNATIVE OPTION)
SCALE 1:10 (A1), 1:20 (A3)
* LENGTH OF THE PRECAST SLAB PANEL SHALL BE AS PER THE SITE CONDITION



8 SECTION
SCALE 1:10 (A1), 1:20 (A3)

CLIENT:



STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And
Maintenance Of Roads And
Interchanges For New Terminal Building
In Kuwait International Airport At
Magwa Road RA268/

CONSULTANT:



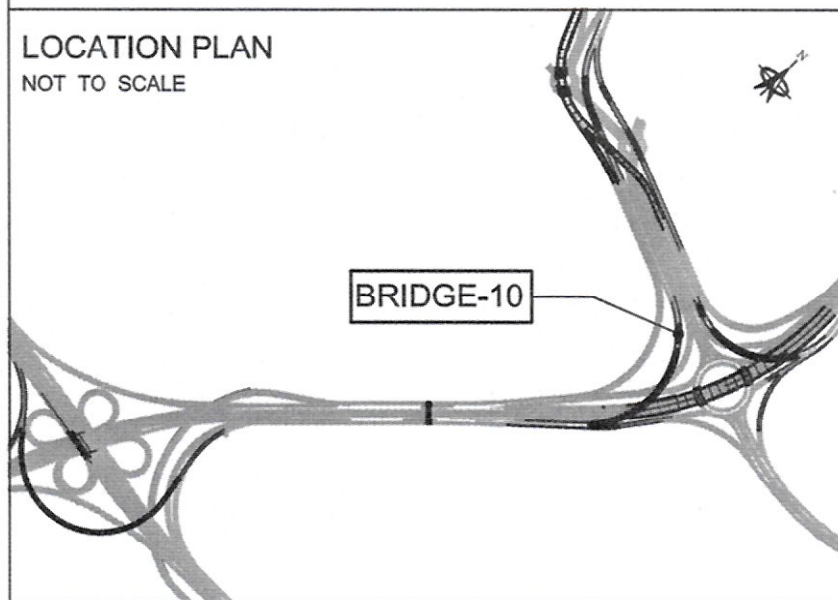
ORIENTAL CONSULTANTS
COMPANY LIMITED

IN ASSOCIATION WITH:



Dar Al-Dowailah
Engineering Consultants
& Construction Managers

LOCATION PLAN
NOT TO SCALE



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL NOTES, MISCELLANEOUS DRAWINGS.
3. FOR LOCAL ZONE REINFORCEMENT CONTRACTOR MUST PROVIDE THE DETAILS OF REINFORCEMENT REQUIRED FOR THE APPROVED POST TENSIONING SYSTEM.
4. JACK LOCATION SHALL BE PROPERLY ETCHED AT THE BOTTOM OF THE EACH DIAPHRAGM.
5. ALL LAPS SHALL BE STAGGERED UNLESS NOTED OTHERWISE.
6. SURFACE OF PRECAST SLAB TO BE INTENTIONALLY ROUGHENED TO 6MM.

Rev. No.	Date	Description	By

DRAWING TITLE:

BRIDGE - 10
SUPERSTRUCTURE
REINFORCEMENT DETAILS (SHEET-04)

DRAWING NO: ST_00_BR_0971_04

DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	AS SHOWN	A1 SCALE:	AS SHOWN
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	SBB	APPROVED BY:	AZ

INSAT SANAYE TICARET A.Ş.
İstanbul Şişli No: 98 C.P. 34398
Tic. Sic. No: 271244
Ankara Kurumlar V.d. 06050000000000000000

PARTIDA
Proje ve İnşaat
Proje ve İnşaat
Proje ve İnşaat

CLIENT:



STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

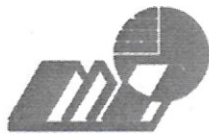
Construction, Developing And
Maintenance Of Roads And
Interchanges For New Terminal Building
In Kuwait International Airport At
Magwa Road RA268/

CONSULTANT:



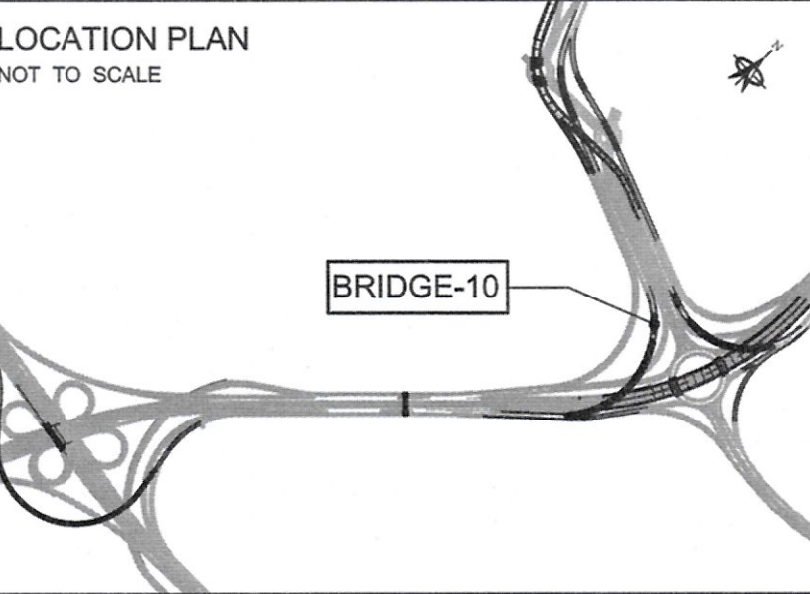
ORIENTAL CONSULTANTS
COMPANY LIMITED

IN ASSOCIATION WITH:



Dar Al-Dowailah
Engineering Consultants
& Construction Managers

LOCATION PLAN
NOT TO SCALE

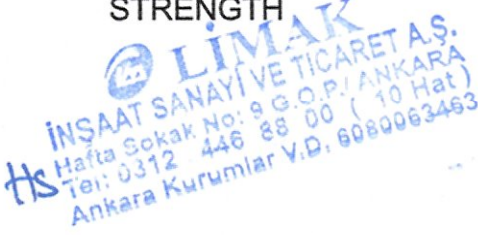


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MISCELLANEOUS DRAWINGS.
3. PJ REPRESENTS THE JACKING FORCE REQUIRED.
4. EXTERNAL DIAMETER OF DUCTS IN WEB NOT TO EXCEED 135MM

LEGEND:

JACKING END
GUTS : GUARANTEED ULTIMATE TENSILE STRENGTH

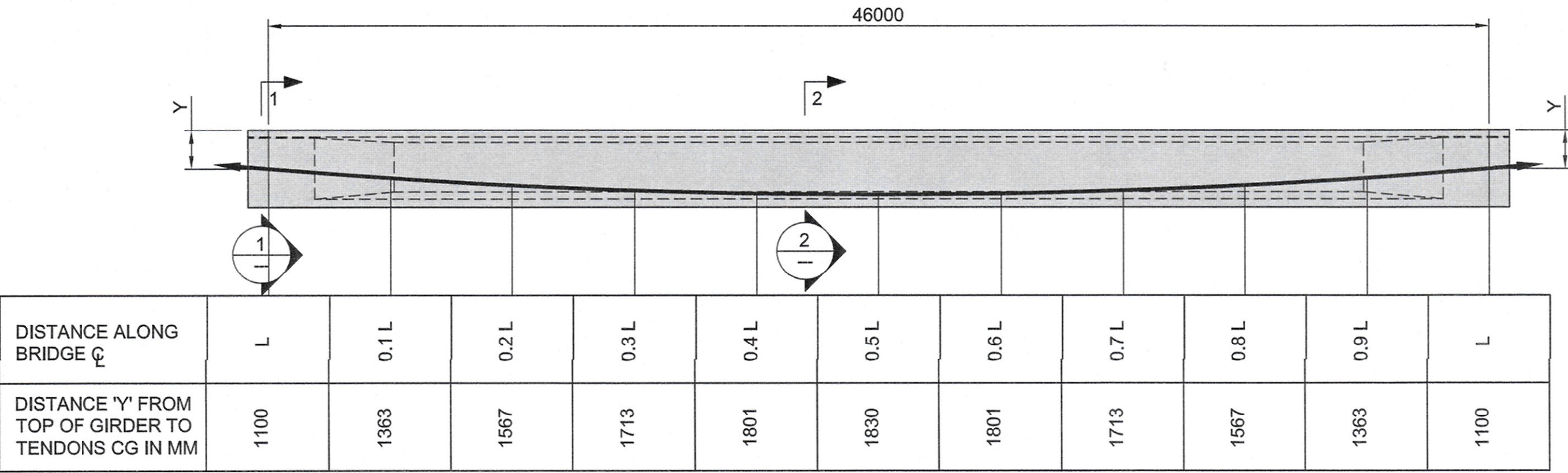


Rev. No. Date Description By

DRAWING TITLE:
BRIDGE - 10
GIRDER POST-TENSIONING DETAILS

DRAWING NO: ST_00_BR_0981_01

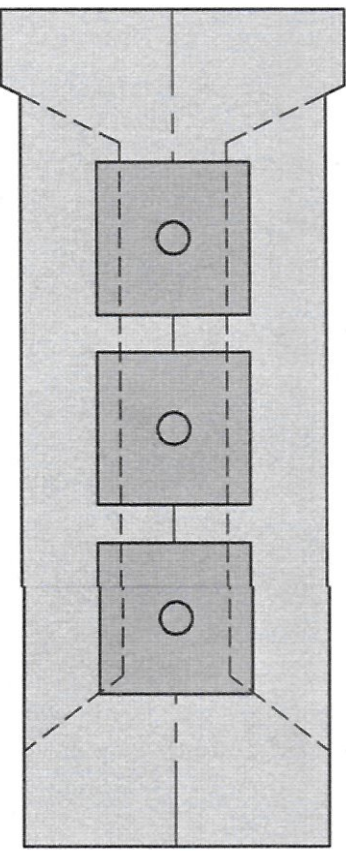
DATE:	NOV.14, 2016	STATUS:	FINAL
A3 SCALE:	N.T.S	A1 SCALE:	N.T.S
DESIGNED BY:	MS	CHECKED BY:	MC
DRAWN BY:	MA	APPROVED BY:	AZ



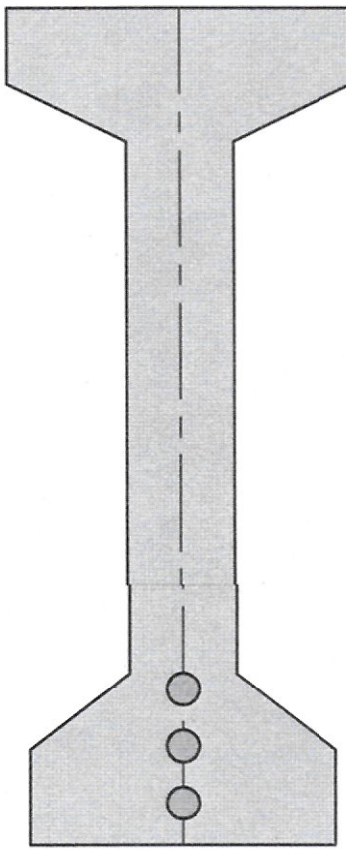
POST-TENSIONING DETAIL

INTERIOR GIRDER		
No. OF TENDONS (EACH GIRDER)	Pj (kN) / TENDON (75% OF GUTS)	No. OF STRANDS (EACH TENDON)
3	5273	27

EXTERIOR GIRDER		
No. OF TENDONS (EACH GIRDER)	Pj (kN) / TENDON (75% OF GUTS)	No. OF STRANDS (EACH TENDON)
3	6250	32



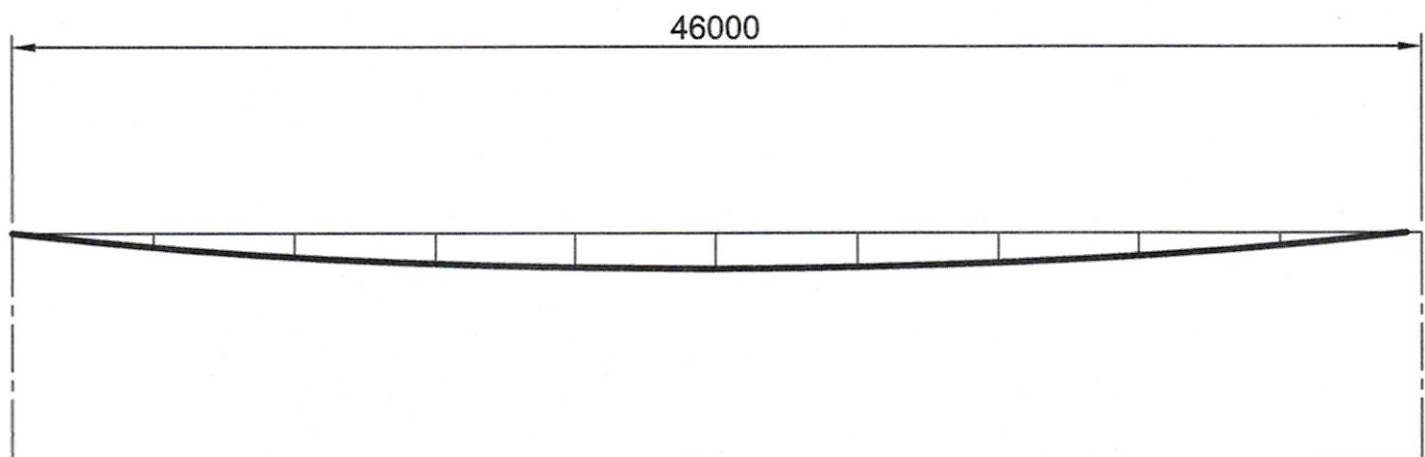
1 SECTION



2 SECTION

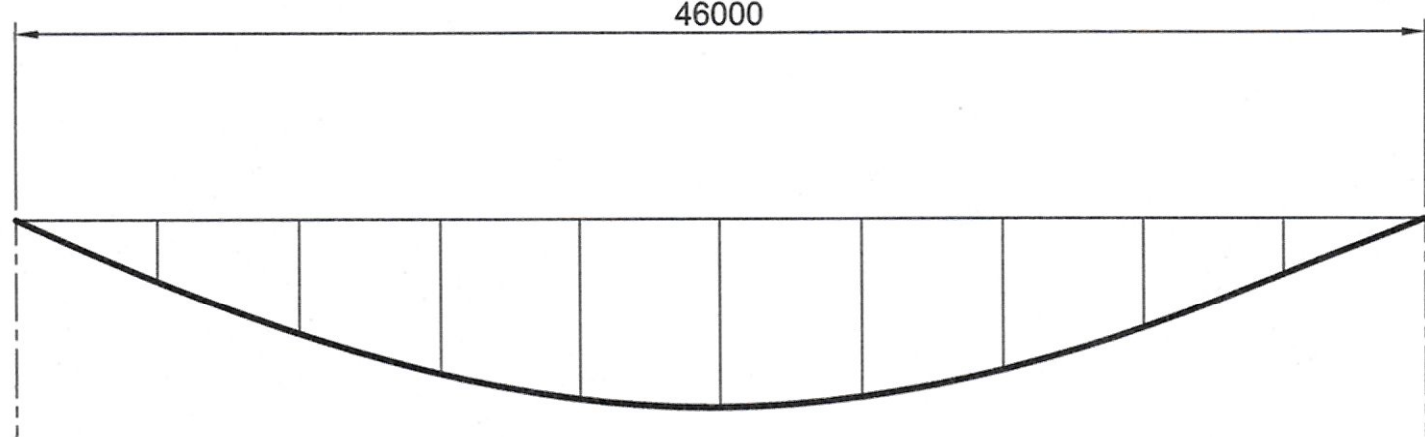


User: haseebah_munoz Date: Mon, 27 Nov 2016 - 3:57pm File: T:\000_PROJECTS\BUPORTAL_CURRENT\PROJECTS\BUPORTAL_CURRENT\Drawings\Drawings\ST_00_BR_0991_01.dwg



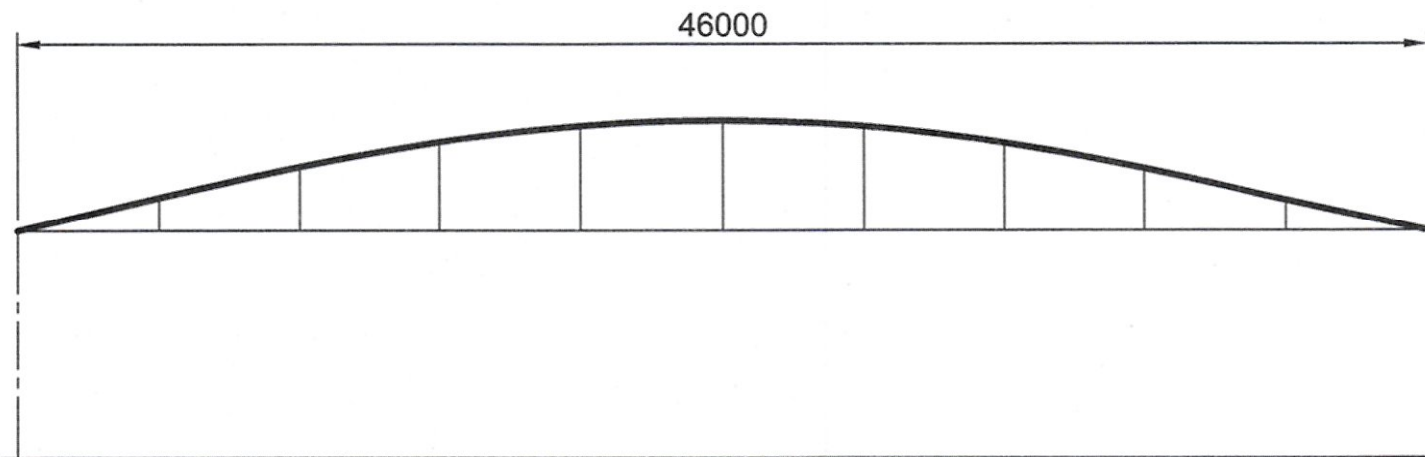
DISTANCE ALONG BRIDGE CENTERLINE (m)	L	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	L
DEAD LOAD DEFLECTION (mm)	0	-35	-67	-92	-107	-113	-107	-92	-67	-36	0
PRESTRESS DEFLECTION (mm)	0	35	66	90	105	110	105	90	66	35	0
TOTAL DEFLECTION (mm)	0	-1	-2	-2	-2	-2	-2	-2	-2	-1	0

IMMEDIATE DEFLECTION (INTERIOR GIRDER)



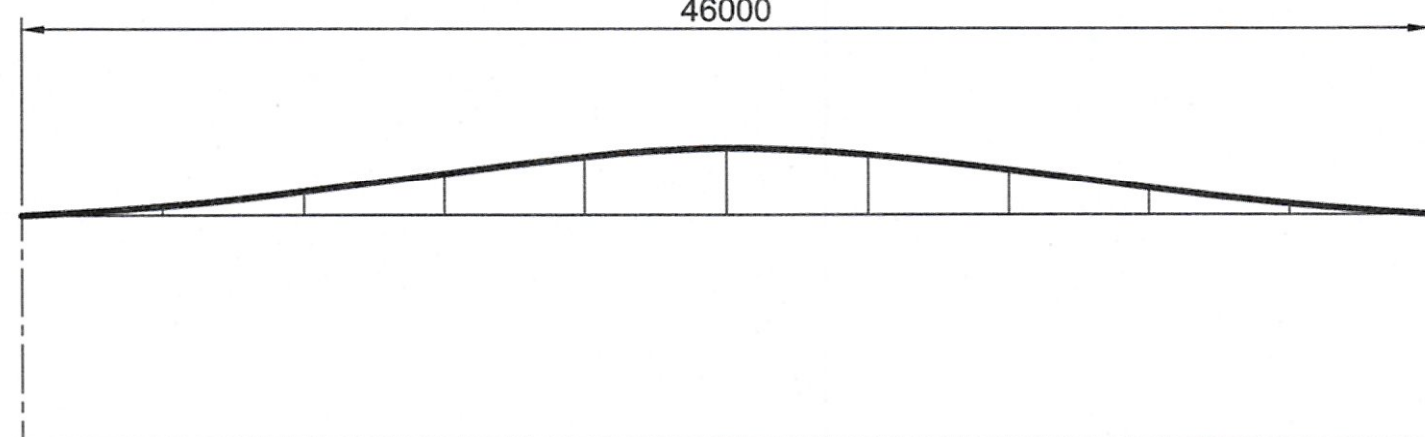
DISTANCE ALONG BRIDGE CENTERLINE (m)	L	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	L
DEAD LOAD DEFLECTION (mm)	0	-82	-154	-211	-247	-259	-247	-211	-154	-82	0
SUPERIMPOSED LOAD DEFLECTION (mm)	0	-8	-15	-21	-24	-25	-24	-21	-15	-8	0
PRESTRESS DEFLECTION (mm)	0	80	151	206	242	254	242	206	151	80	0
TOTAL DEFLECTION (mm)	0	-10	-18	-25	-29	-31	-29	-25	-19	-10	0

LONG TERM DEFLECTION (INTERIOR GIRDER)



DISTANCE ALONG BRIDGE CENTERLINE (m)	L	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	L
DEAD LOAD DEFLECTION (mm)	0	-36	-67	-92	-107	-113	-107	-92	-67	-35	0
PRESTRESS DEFLECTION (mm)	0	40	75	103	121	127	121	103	75	40	0
TOTAL DEFLECTION (mm)	0	4	8	12	14	14	14	12	8	4	0

IMMEDIATE DEFLECTION (EXTERIOR GIRDER)



DISTANCE ALONG BRIDGE CENTERLINE (m)	L	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	L
DEAD LOAD DEFLECTION (mm)	0	-82	-154	-211	-247	-259	-247	-211	-154	-82	0
SUPERIMPOSED LOAD DEFLECTION (mm)	0	-9	-17	-23	-26	-27	-26	-23	-17	-9	0
PRESTRESS DEFLECTION (mm)	0	92	174	238	278	292	278	238	174	92	0
TOTAL DEFLECTION (mm)	0	1	2	4	5	6	6	4	3	1	0

LONG TERM DEFLECTION (EXTERIOR GIRDER)

CLIENT:



STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
ROADS ENGINEERING SECTOR

PROJECT:

Construction, Developing And
Maintenance Of Roads And
Interchanges For New Terminal Building
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Magwa Road RA268/

CONSULTANT:



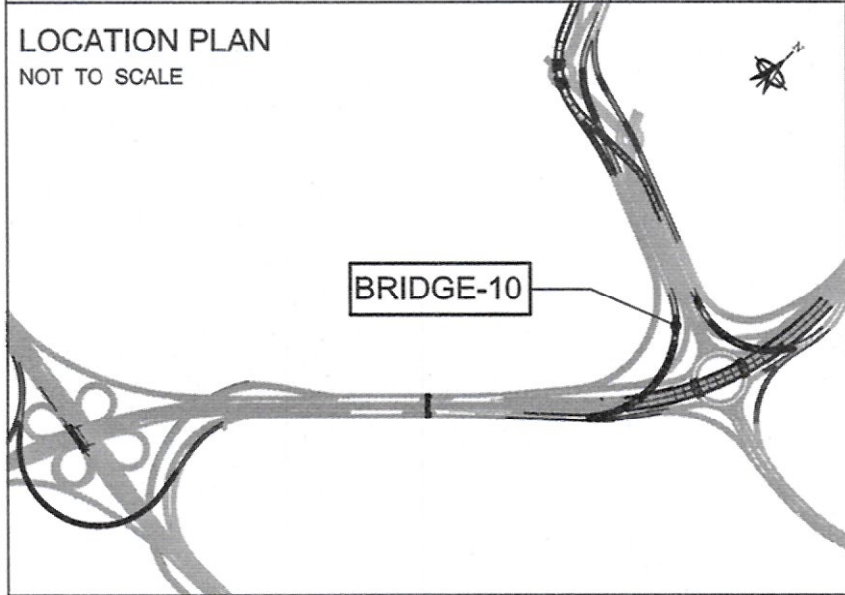
ORIENTAL CONSULTANTS
COMPANY LIMITED

IN ASSOCIATION WITH:



Dar Al-Dowailah
Engineering Consultants
&Construction Managers

LOCATION PLAN
NOT TO SCALE



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL NOTES AND MISCELLANEOUS DRAWINGS.
3. DEAD LOAD DEFLECTION INCLUDES DEFLECTION DUE TO OWN WEIGHT OF SUPERSTRUCTURE BOX GIRDER.
4. SUPERIMPOSED DEAD LOAD DEFLECTION INCLUDES DEFLECTION FROM WEARING COURSE, CONCRETE BARRIERS AND FUTURE UTILITIES.
5. CAMBER SHALL ALLOW FOR LONG TERM DEFLECTIONS DUE TO SUPERSTRUCTURE DEAD LOAD AND SUPERIMPOSED DEAD LOAD, AS WELL AS PRESTRESS DEFLECTION AND FORMWORK DEFORMATIONS IF ANY.
6. DOWNWARD DEFLECTION IS NEGATIVE.

LEGEND:

L = CORRESPONDING SPAN LENGTH

INSAT SANAYI VE TICARET A.Ş.
Heslo Bulvarı No: 9 GÖĞÜSİ / ANKARA
Tel: 0312 448 88 00 (10 Hat)
ANKARA Kurumlar Y.D. 0659005453



Rev.
No.

Date

Description

By

DRAWING TITLE:

BRIDGE - 10
DEFLECTION DIAGRAM

DRAWING NO: ST_00_BR_0991_01

DATE: NOV.14, 2016

STATUS:

FINAL

A3 SCALE: AS SHOWN

A1 SCALE:

AS SHOWN

DESIGNED BY: MS

CHECKED BY:

MC

DRAWN BY: MA

APPROVED BY:

AZ