

Page 1 of 2

[illegible]



**CITY OF MENIFEE
DEPARTMENT OF PUBLIC WORKS
CONTRACT CHANGE ORDER NO. 04**

Page 2 of 2

CONTRACT VARIANCE SUMMARY

CCO #	Description	Amount	%	Additional Time	Date Approved
01	12" C900 DR 14 Fusible Pipe	\$20,537.39	0.08%	0	
02	Extra Work for miscellaneous items	\$49,000.00	0.19%	0	
03	Irrigation Modifications Plan IP-5	(\$9,000.00)	-0.03%	0	
04	Increased Girder Flare Thickness	\$0.00	0.00%	0	
Totals		\$60,537.39	0.24%	0	

Original Contract Amount:	\$25,848,403.85
Previous Change Order Amounts:	\$69,537.39
Current Change Order Amount:	\$0.00
Revised Contract Amount:	\$25,917,941.24

Date Started:	January 10, 2023
Original Completion Date:	March 28, 2024
Additional Time (Working Days)	0
Revised Completion Date:	March 28, 2023

AUTHORIZATION BY CITY:

Recommended for approval by:

Amr Abuelhassan Date: 7/27/2023
Amr Abuelhassan, Southstar Construction Manager

Carlos Geronimo, Engineering Manager Date: 7/27/2023
Carlos E. Geronimo, City Project Manager

Approved by:

Nick Fidler Date: 7/27/2023
Nicolas Fidler
Director of Public Works/Engineering

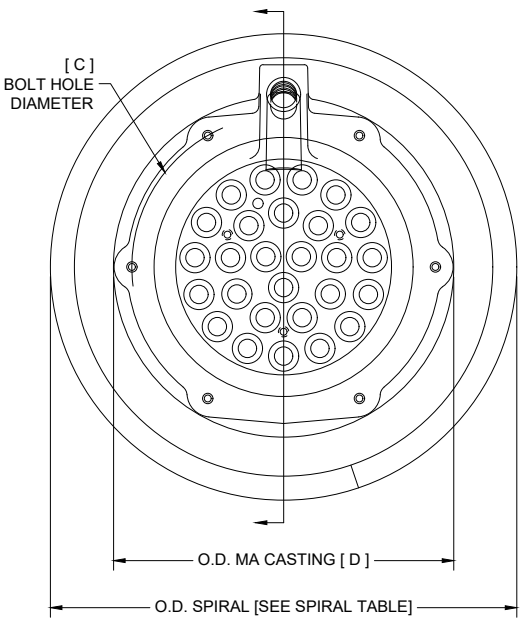
Armando G. Villa Date: 7/27/2023
Armando G. Villa
City Manager

ACCEPTANCE BY CONTRACTOR:

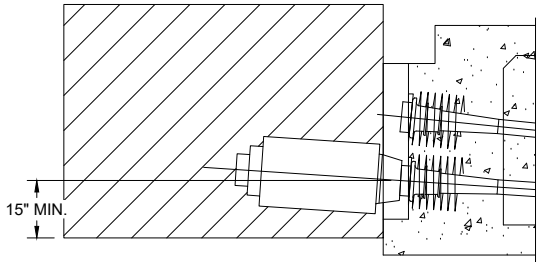
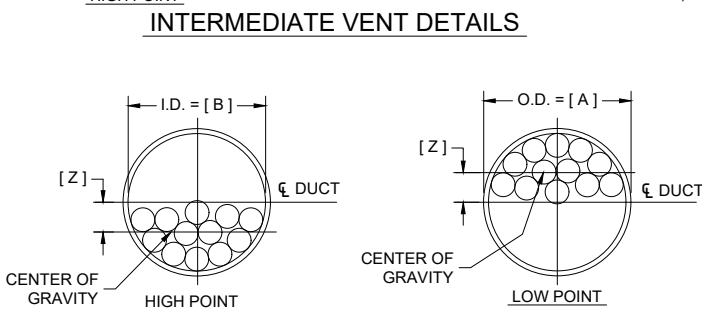
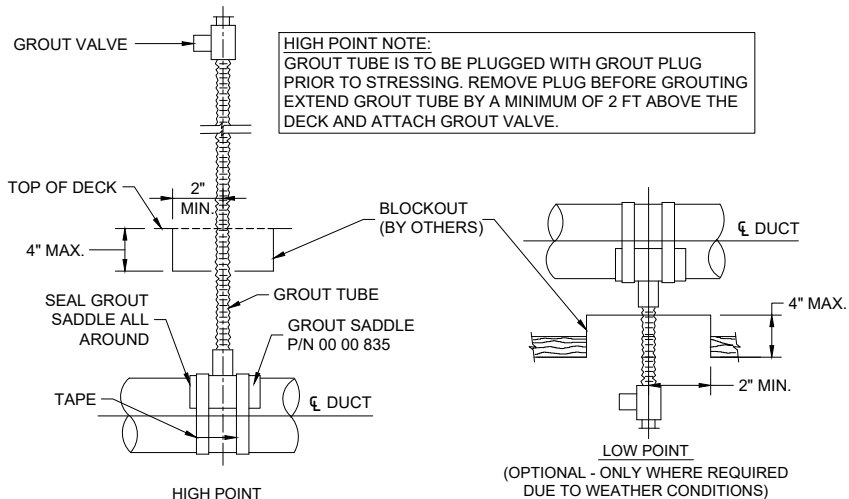
We, the undersigned Contractor, have given careful consideration to the above described changes and/or extra work and hereby agree that said work is a supplement to the contract and all provisions will apply hereto.

Accepted by: Ryan Camp
Signature
Ryan Camp - Projects Manager
Please print name and title

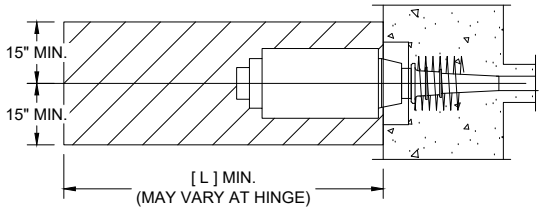
Date: 7/27/2023



TYP. FRONT VIEW OF WEDGE PLATE AND MA ANCHORAGE
(27-0.6" WEDGE PLATE SHOWN - ALL OTHERS ARE SIMILAR)



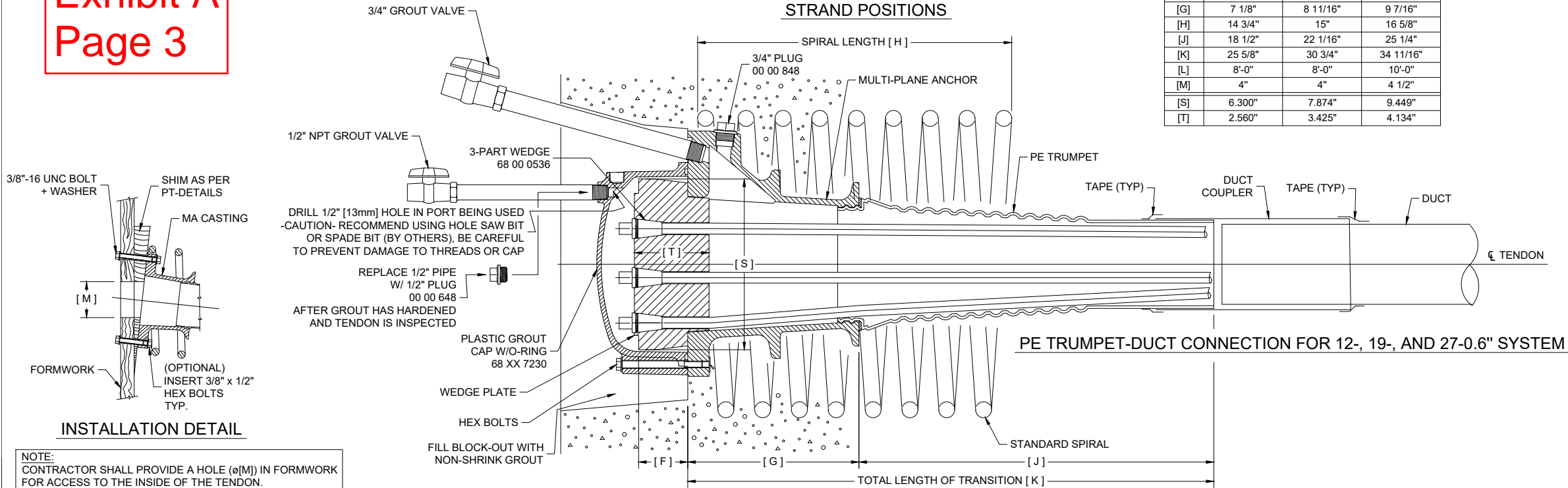
STRESSING CLEARANCE - CROSS SECTION



STRESSING CLEARANCE - PLAN VIEW

DIM.	12-0.6" SYSTEM	19-0.6" SYSTEM	27-0.6" SYSTEM
"Z"	Δ 3/4"	5/8"	Δ 5/8"
[A]	3 1/2"	3 13/16"	4 1/2"
[B]	3 3/8"	3 11/16"	4 3/8"
[C]	8 1/8"	9 7/8"	11.07"
[D]	8.925"±0.079"	11.00"±0.079"	12.42"±0.079"
[F]	1 11/16"	2 3/16"	2 15/16"
[G]	7 1/8"	8 11/16"	9 7/16"
[H]	14 3/4"	15"	16 5/8"
[J]	18 1/2"	22 1/16"	25 1/4"
[K]	25 5/8"	30 3/4"	34 11/16"
[L]	8'-0"	8'-0"	10'-0"
[M]	4"	4"	4 1/2"
[S]	6.300"	7.874"	9.449"
[T]	2.560"	3.425"	4.134"

Exhibit A
Page 3



PE TRUMPET-DUCT CONNECTION FOR 12-, 19-, AND 27-0.6" SYSTEM

TYPICAL LONGITUDINAL SECTION OF DYWIDAG MA-ANCHORAGE

INSTALLATION PROCEDURE

- PREASSEMBLE THE MULTIPLANE ANCHOR, BOLTED SPIRAL, AND PE TRUMPET. LIGHTLY GREASE MOUNTING STUDS TO FACILITATE REMOVAL.
- BOLT THE MULTIPLANE ANCHOR ASSEMBLY TO THE FORMWORK AS SHOWN. THE ANCHOR MUST BE ORIENTED SUCH THAT THE GROUT HOLE IS AT THE TOP. TAPE THE GROUT HOLE TO PREVENT CONCRETE LEAKAGE.
- INSTALL DUCT AS SHOWN ON SHOP DRAWINGS (TOLERANCE = ±1/4"). CONNECT DUCT TO TRANSITION TRUMPET AS SHOWN ON THIS DRAWING. TAPE ALL JOINTS TO ENSURE LEAK-TIGHT CONNECTIONS.
- DUCTS MUST BE TIED AT MAXIMUM 4'-0" CENTERS TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.

CONCRETE PLACEMENT MAY NOW PROCEED

- AFTER INITIAL CURE AND REMOVAL OF FORMWORK, INSTALL STRANDS LEAVING SUFFICIENT LENGTH FOR STRESSING.
- INSPECT HARDWARE FOR RUST, DIRT AND GRIT. DISCARD RUSTY WEDGES. IF NECESSARY, CLEAN WEDGE PLATE HOLES WITH WIRE BRUSH.
- INSTALL WEDGE PLATE AND WEDGES. LOOSELY SEAT WEDGES INTO HOLES.

STRESSING CAN PROCEED WHEN CONCRETE STRENGTH HAS REACHED MIN. F'CI = 3500 PSI.

- AFTER STRESSING, CUT OFF STRAND TAILS APPROXIMATELY 3/4" FROM WEDGE FACE.
- INSTALL PLASTIC GROUT CAP OVER WEDGE PLATE WITH SEAL.
- THREAD NPT PIPE NIPPLE WITH ATTACHED VALVE INTO THREADED HOLE AT TOP OF ANCHOR.
- VENT GROUT CAP USING 1/2" NPT PIPE NIPPLE AND VALVE.

GROUTING MAY NOW PROCEED

- AFTER GROUT HAS CURED, REMOVE NPT PIPE NIPPLES AND VALVES. REPLACE NPT PIPE NIPPLES WITH HDPE PLUGS.

NOTES:

- FOR TENDON SIZES LESS THAN SYSTEM CAPACITY, ELIMINATE THE USE OF WEDGE HOLES CONCENTRICALLY FROM THE CENTER OF THE WEDGE PLATE OUTWARDS.
- THE MULTIPLANE ANCHORAGES MAY BE USED AS STRESSING OR DEAD-END ANCHORS.
- NOT ALL SYSTEMS SHOWN ON THIS SHEET MAY BE REQUIRED FOR THIS PROJECT.

SAFETY WARNING:

AT NO TIME DURING STRESSING OR REMOVAL OF JACKS SHALL PERSONNEL STAND IN-LINE WITH TENDONS. IF A STRAND SHOULD SLIP OR FAIL, EXTREME INJURY MAY RESULT.

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HOLLAND ROAD OVERCROSSING

CITY OF MENIFEE STATE OF CALIFORNIA

DIST. 08 COUNTY RIV ROUTE 215 MILEPOST 16.9/17.5 BRIDGE NO. 56-0883 CONTRACT NO. 1F980

CONTRACTOR: RIVERSIDE CONSTRUCTION

DYWIDAG  DYWIDAG Systems International, USA, Inc.
12-, 19- AND 27-0.6"
MA SYSTEM STRESSING ANCHORAGES

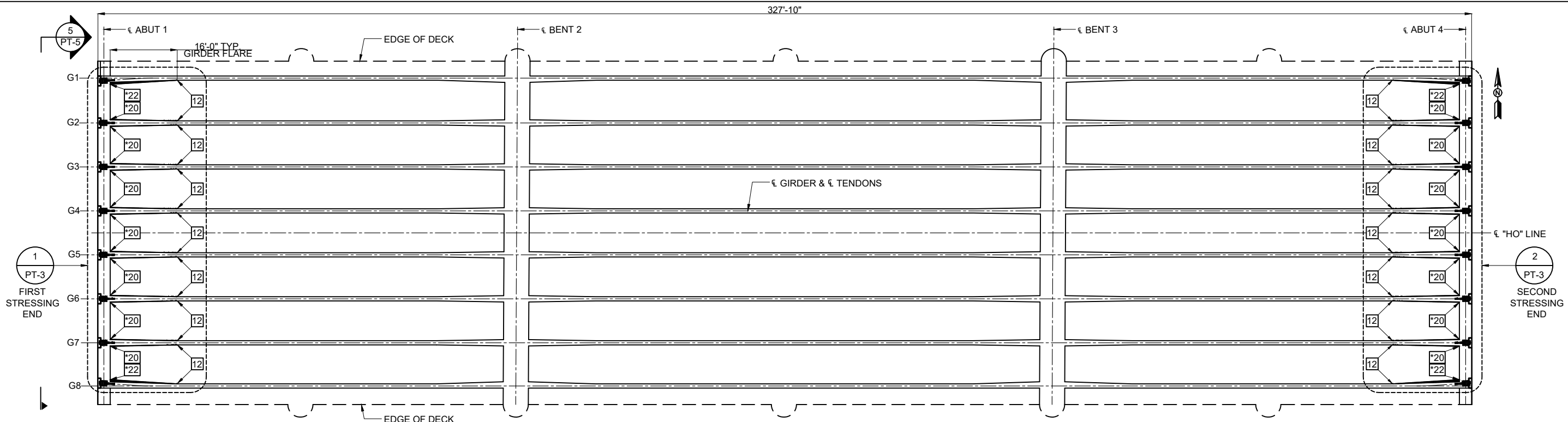
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1	03/13/23	FOR APPROVAL	IT	AD	DATE 12/05/22	APPD.	SI
Δ	05/18/23	FOR APPROVAL	IT	AD			
					JOB NO.	J149816	
					DWG. NO.	PT-1	

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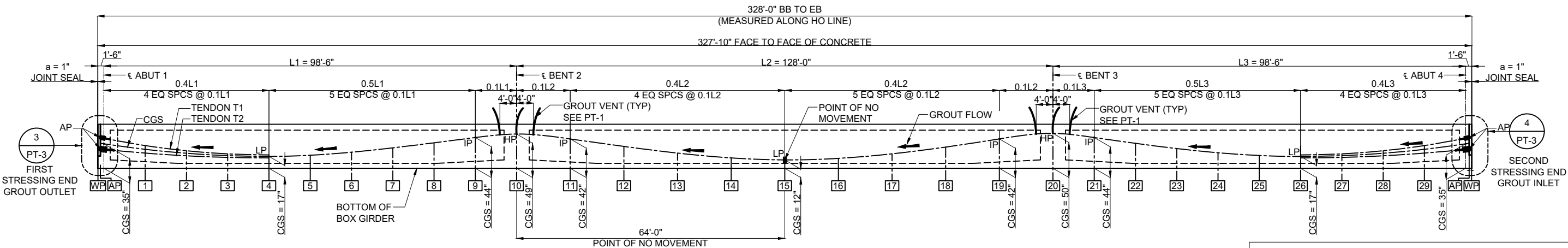
CAUTION: WHEN PRESSURIZING GROUT CAPS, DO NOT STAND BEHIND CAPS!

EMBEDDED MATERIALS

PART DESCRIPTION	MATERIAL SPECIFICATION	PART NO. / ORDER NO.			STANDARD SPIRAL - ASTM A 706, GR 60		
		12-0.6" SYSTEM	19-0.6" SYSTEM	27-0.6" SYSTEM	MA-SYSTEM	PART NO./ORD. NO.	PART DESCRIPTION
3-PART WEDGE	AISI-C12L14 HEAT TREATED	68 00 0536 (see DSI DWG. NO. 68 00 0536)			12-0.6"	68 15 214	#5, 2" PITCH, 12 1/2" O.D., 7 FULL TURNS
FORGED WEDGE PLATE O.D. = [S]	STEEL FORGING, ASTM A-521-76, NORMALIZED, BHN = 180-220	68 12 142 / 68 12 1062	68 19 142 / 68 19 1062	68 27 142 / 68 27 1062	19-0.6"	68 19 214	#5, 1 7/8" PITCH, 14 1/2" O.D., 7 FULL TURNS
CAST WEDGE PLATE O.D. = [S]	DUCTILE IRON ASTM A536 GR. 80-55-06			68 27 172	27-0.6"	68 27 214	#6, 2 1/4" PITCH, 17" O.D., 7 FULL TURNS
MULTI-PLANE ANCHOR CASTING	DUCTILE IRON ASTM A536, GR 65-45-12	68 12 246	68 19 246	68 27 246			
PLASTIC GROUT CAP	NYLON 6, 20% GLASS FIBER FILLED	68 12 7230	68 19 7230	68 27 7230			
PE TRUMPET	HARD POLYETHYLENE	68 12 5073	68 19 5073	68 27 588			
DUCT & DUCT COUPLER	GALVANIZED, CORRUGATED SHEET METAL, US STD. GAUGE 26, ASTM A653 Gr. 60	A.N.S.					
GROUT SADDLE	HARD POLYETHYLENE	00 00 835					



TENDON LAYOUT - PLAN



TENDON LAYOUT ELEVATION

PROFILE - LOL VALUES

Tendon ID	Node	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Distance From C.L. Abut (ft)	0.1L1	0.2L1	0.3L1	0.4L1	0.5L1	0.6L1	0.7L1	0.8L1	0.9L9	L1	0.1L2	0.2L2	0.3L2	0.4L2	0.5L2
T1	LOL 1 (in)	32 5/8	24 2/8	19 1/8												
T2	LOL 2 (in)	21 3/8	16 6/8	13 7/8	12 7/8	14	17 3/8	22 7/8	30 5/8	40 4/8	46 2/8	38 4/8	25 1/8	15 4/8	9 6/8	7 7/8

PROFILE - LOL VALUES

Tendon ID	Node	IP							HP		IP		LP				
	Distance From C.L. Abut (ft)	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
T1	LOL 1 (in)												19 1/8	24 2/8	32 5/8		
T2	LOL 2 (in)	9 6/8	15 4/8	25 1/8	38 4/8	47 2/8	40 4/8	30 5/8	22 7/8	17 3/8	14	12 7/8	13 7/8	16 6/8	21 3/8		

PROFILE NOTES:

- "LOL 1" - DENOTES SUPPORT HEIGHT MEASURED FROM BOTTOM OF BOX GIRDER TO BOTTOM OF DUCT FOR TOP TENDON T1.
- "LOL 2" - DENOTES SUPPORT HEIGHT MEASURED FROM BOTTOM OF BOX GIRDER TO BOTTOM OF DUCT FOR BOTTOM TENDON T2.
- TOP TENDONS ARE 12-0.6" SYSTEM WITH 12 STRANDS AND BOTTOM TENDONS ARE 27-0.6" SYSTEM WITH 27 STRANDS.
- "LOL" CALCULATIONS USED Z = 0.74" FOR 12-0.6" TENDONS.
- "LOL" CALCULATIONS USED Z = 0.64" FOR 27-0.6" TENDONS.

Exhibit A
Page 4

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HOLLAND ROAD OVERCROSSING

CITY OF MENIFEE					STATE OF CALIFORNIA	
DIST. 08	COUNTY RIV	ROUTE 215	POST MILE 16.9/17.5	BRIDGE NO. 56-0883	CONTRACT NO. 1F980	

CONTRACTOR: RIVERSIDE CONSTRUCTION



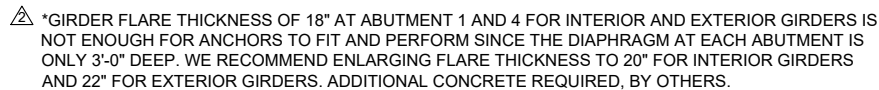
DYWIDAG Systems International, USA, Inc.

POST TENSIONING LAYOUT
PROFILE AND SUPPORT HIGHT

REV.	DATE	ISSUE DESCRIPTION	NAME	CHKD.	SCALE	DRAWN	IT
0	01/18/23	FOR APPROVAL	IT	AD	VARIES	CHKD.	AD
1	03/13/23	FOR APPROVAL	IT	AD		APPD.	SI
2	05/18/23	FOR FINAL APPROVAL	IT	AD	DATE 12/05/22		
3	07/08/23	FOR FINAL APPROVAL	IT	AD	JOB NO.	J149816	
					DWG. NO.	PT-2	

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2
SHIM & BRG PLATE -
HORIZONTAL SLOPE
N.T.S.
(TYP)



- NOTES:**
1. FOR OTHER REINFORCEMENT NOT SHOWN SEE CONTRACT DRAWINGS.
 2. GRILLAGE AND TYPE "B" REINFORCEMENT NOT SHOWN FOR CLARITY.
 3. DUCT TIES AT WEB FLARE NOT SHOWN. REFER TO CALTRANS DRAWING B8-5/DETAIL 5-1.

PLAN - DETAIL AT ANCHORS LOCATION AT ABUT 1 



 **PLAN - DETAIL AT ANCHORS LOCATION AT ABUT 4** 
SECOND STRESSING END



3 ELEVATION - DETAIL AT ANCHORS LOCATION AT ABUT 1
PT-2




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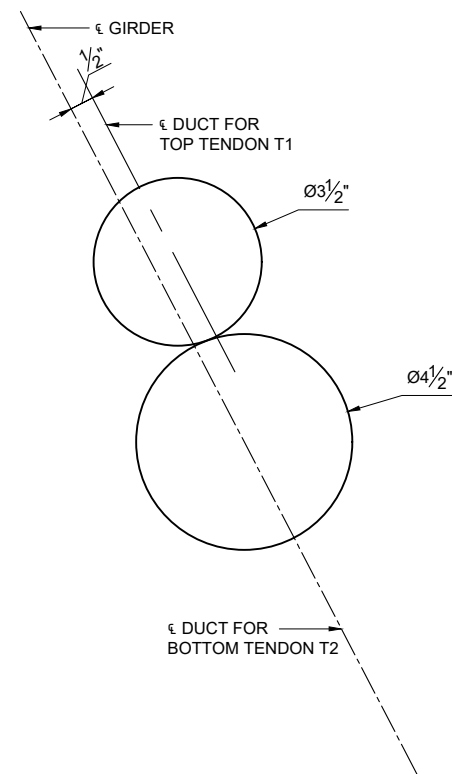
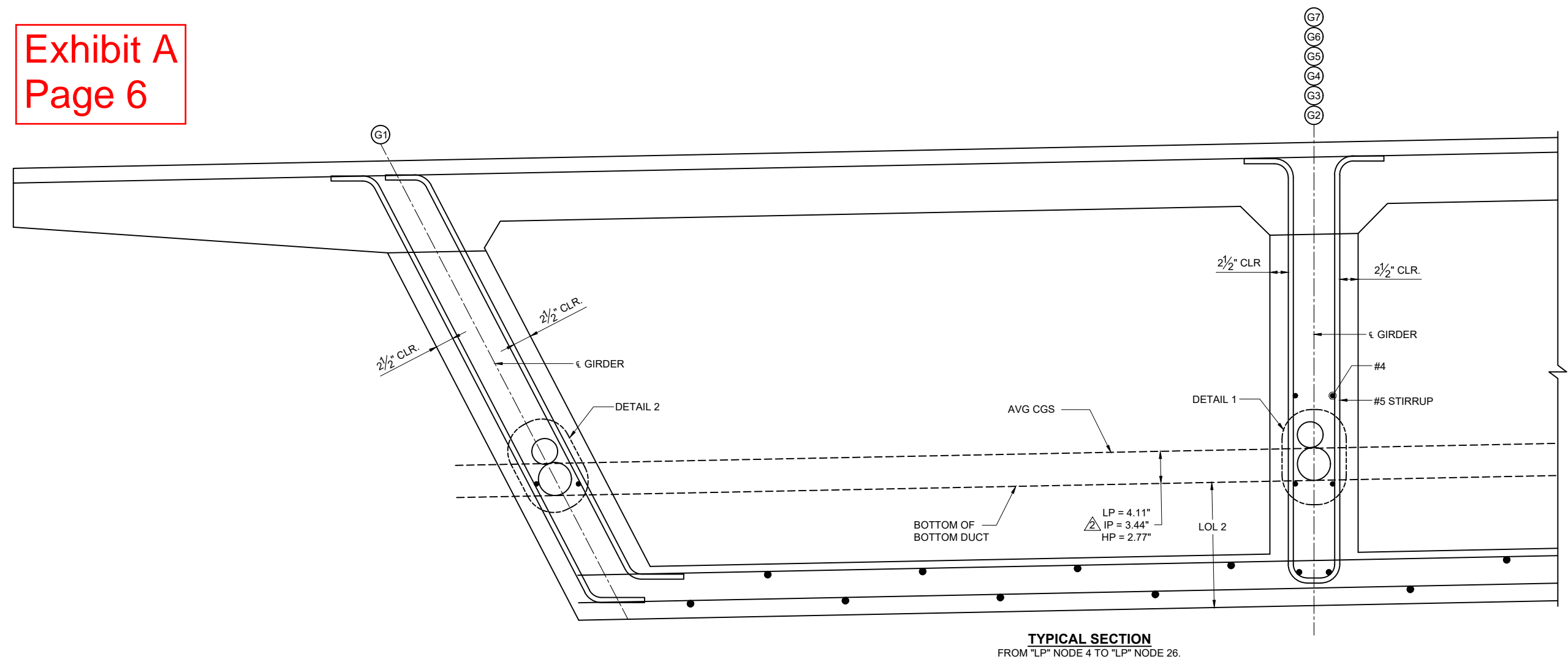
CITY OF MENIFEE STATE OF CALIFORNIA

CONTRACTOR: RIVERSIDE CONSTRUCTION

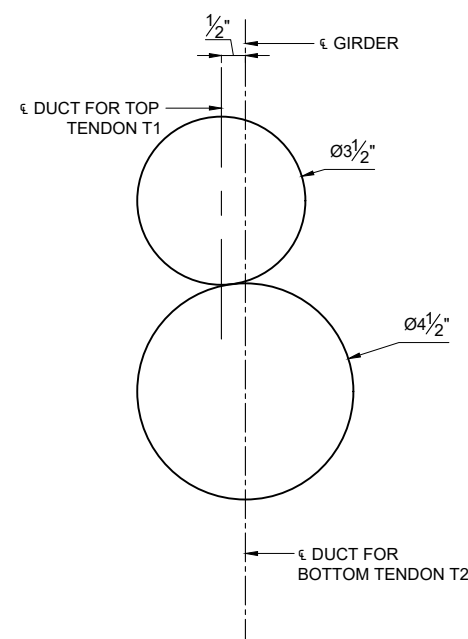
DYWIDAG Systems International, USA, Inc.

REV.	DATE	ISSUE DESCRIPTION	NAME	CHKD.	SCALE	DRAWN	IT
0	01/18/23	FOR APPROVAL	IT	AD	VARIES	CHKD.	AD
1	05/18/23	FOR FINAL APPROVAL	IT	AD		DATE 12/05/22	APPD.
	07/08/23	FOR FINAL APPROVAL	IT	AD			
					JOB NO.	J149816	
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DETAIL 2- DUCT LAYOUT
(AT EXTERIOR GIRDER)



DETAIL 1- DUCT LAYOUT
(INTERIOR GIRDER)

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HOLLAND ROAD OVERCROSSING

CITY OF MENIFEE STATE OF CALIFORNIA

DIST.	COUNTY	ROUTE	POST MILE	BRIDGE NO.	CONTRACT NO.
08	RIV	215	16.9/17.5	56-0883	1F980

CONTRACTOR: RIVERSIDE CONSTRUCTION

DYWIDAG
POST TENSIONING / REINFORCING UNIT
2154 SOUTH ST. LONG BEACH, CA
PHONE: 562-531-6161 FAX: 562-529-2225

DYWIDAG Systems International, USA, Inc.


POST TENSIONING LAYOUT PROFILE AND SUPPORT HIGHT


REV.	DATE	ISSUE DESCRIPTION	NAME	CHKD.	SCALE	DRAWN	IT
0	01/18/23	FOR APPROVAL	IT	AD	VARIES	CHKD.	AD
1	03/13/23	FOR APPROVAL	IT	AD		APPD.	SI
2	05/18/23	FOR FINAL APPROVAL	IT	AD	DATE		
					12/05/22		
					JOB NO.	J149816	
					DWG. NO.	PT-4	

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NOTE: STRESS SEQUENCE 1 THRU 16 FROM ABUTMENT 1.
STRESS SEQUENCE 1 THRU 16 FROM ABUTMENT 4.

	DYWIDAG Systems International, USA, Inc.
POST TENSIONING / REINFORCING UNIT 2154 SOUTH ST. LONG BEACH, CA PHONE: 562-531-6161 FAX: 562-532-2225	<h2 style="margin: 0;">STRESSING SEQUENCE AND ELONGATION SUMMARY</h2>

REV.	DATE	ISSUE DESCRIPTION	NAME	CHKD.	SCALE	DRAWN	IT
0	01/18/23	FOR APPROVAL	IT	AD	VARIES	CHKD.	AD
	05/18/23	FOR FINAL APPROVAL	IT	AD	DATE	APPD.	SI
					12/05/22		
					JOB NO.	J149816	
					DWG. NO.	PT-5	

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RFI # 031
Date: 07/12/2023
Response Requested: ASAP

REQUEST FOR INFORMATION

Holland Road CIP 13-03
City of Menifee – Public Works

To: Amr Abuelhassan

City of Menifee – Public Works

39844 Haun Road
Menifee, Ca. 92584

Exhibit B
Page 8

From: Carl Short

Riverside Construction Company, Inc.

P.O. Box 1146, Riverside, Ca. 92502

Submitted by: Carl Short

RFI #031 – Post Tension changes

We request the following information:

Per Plan sheet 126 of 176, the Girder flares are noted as 18". We are requesting to change flare thickness to 22" on exterior and 20" on interior. See attached highlighted plans showing the original and the proposed. Please review and approve at your earliest convenience.

If approved, this will be a no cost change.

CONTRACTOR MAY ELECT TO
REVISE THE ANCHORAGE DETAIL
PER ATTACHED SHOP DRAWINGS
WITH NO EXCEPTIONS

By:

Date:

- 1 ☒ NO EXCEPTION NOTED
2 ☐ EXCEPTIONS NOTED, RESUBMITTAL NOT REQUIRED
3 ☐ REVISE AND RESUBMIT
4 ☐ REJECTED
5 ☐ RECORD COPY

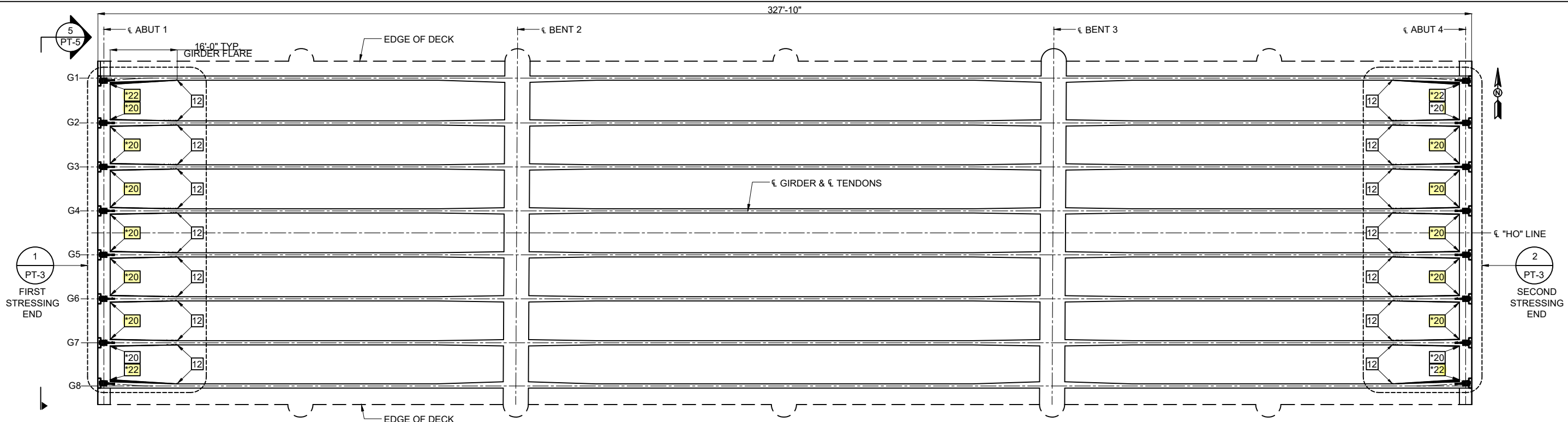
ENGINEERS' review of the drawings and data submitted by the Contractor will cover only general conformity to the drawings and specifications, external connections, and dimensions which affect the layout. ENGINEERS' review does not indicate a thorough review of all dimensions, quantities, and details of the material, equipment, devices, or items shown.

BY: Robert Barton DATE: 7/12/2023

T.Y. LIN INTERNATIONAL

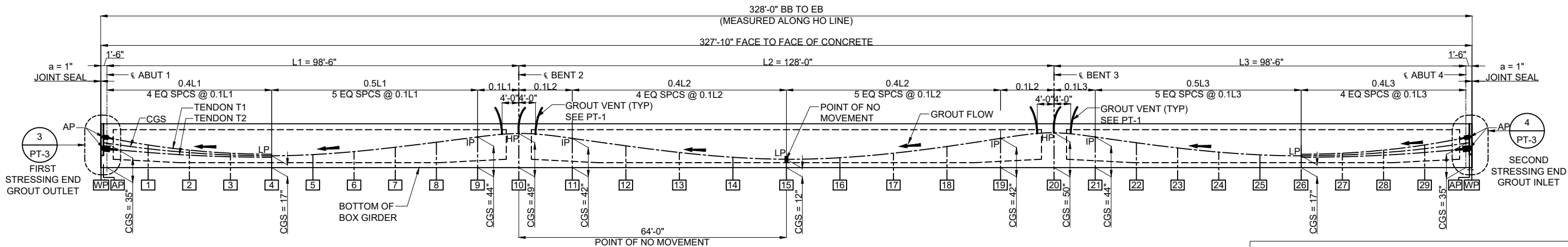
"The changes associated with RFI 31 is at the request of the Contractor at no cost to the City. CCO 4 at (No cost - No credit) will be issued to cover this change."

Karim Varshochi, PE
Structures Representative
7/17/2023



*GIRDER FLARE THICKNESS OF 18" AT ABUTMENT 1 AND 4 FOR INTERIOR AND EXTERIOR GIRDERS IS NOT ENOUGH FOR ANCHORS TO FIT AND PERFORM SINCE THE DIAPHRAGM AT EACH ABUTMENT IS ONLY 3'-0" DEEP. **WE RECOMMEND ENLARGING FLARE THICKNESS TO 20" FOR INTERIOR GIRDERS AND 22" FOR EXTERIOR GIRDERS.** ADDITIONAL CONCRETE REQUIRED, BY OTHERS.

TENDON LAYOUT - PLAN



TENDON LAYOUT ELEVATION

NOTE: FOR OTHER DETAILS AND DIMENSIONS NOT SHOWN SEE CONTRACT DRAWING SHEET 17 OF 37.

PROFILE - LOL VALUES

Tendon ID	Node	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Distance From C.L. Abut (ft)	0.1L1	0.2L1	0.3L1	0.4L1	0.5L1	0.6L1	0.7L1	0.8L1	0.9L1	L1	0.1L2	0.2L2	0.3L2	0.4L2	0.5L2
T1	LOL 1 (in)	32 5/8	24 2/8	19 1/8												
T2	LOL 2 (in)	21 3/8	16 6/8	13 7/8	12 7/8	14		17 3/8	22 7/8	30 5/8	40 4/8	46 2/8	38 4/8	25 1/8	15 4/8	9 6/8

PROFILE - LOL VALUES

Tendon ID	Node	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	Distance From C.L. Abut (ft)	0.6L2	0.7L2	0.8L2	0.9L2	L2	0.1L3	0.2L3	0.3L3	0.4L3	0.5L3	0.6L3	0.7L3	0.8L3	0.9L3
T1	LOL 1 (in)												19 1/8	24 2/8	32 5/8
T2	LOL 2 (in)	9 6/8	15 4/8	25 1/8	38 4/8	47 2/8	40 4/8	30 5/8	22 7/8	17 3/8	14	12 7/8	13 7/8	16 6/8	21 3/8

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HOLLAND ROAD OVERCROSSING

CITY OF MENIFEE STATE OF CALIFORNIA
DIST. 08 COUNTY RIV ROUTE 215 POST MILE 16.9/17.5 BRIDGE NO. 56-0883 CONTRACT NO. 1F980

CONTRACTOR: RIVERSIDE CONSTRUCTION

DYWIDAG DYWIDAG Systems International, USA, Inc.
POST TENSIONING / REINFORCING UNIT
2154 SOUTH ST. LONG BEACH, CA
PHONE: 562-531-6161 FAX: 562-529-2225

**POST TENSIONING LAYOUT
PROFILE AND SUPPORT HEIGHT**

REV.	DATE	ISSUE DESCRIPTION	NAME	CHKD.	SCALE	DRAWN	IT
0	01/18/23	FOR APPROVAL	IT	AD	VARIES	CHKD.	AD
1	03/13/23	FOR APPROVAL	IT	AD	DATE	APPD.	SI
2	05/18/23	FOR FINAL APPROVAL	IT	AD	12/05/22		
3	07/08/23	FOR FINAL APPROVAL	IT	AD	JOB NO.	J149816	
					DWG. NO.	PT-2	

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**Exhibit B
Page 9**

