

REHABILITATION OF THE ASHWOOD AVENUE AND RUSSELL PLACE BRIDGES

CITY OF SUMMIT, UNION COUNTY, NEW JERSEY

SUMMIT PARK LINE

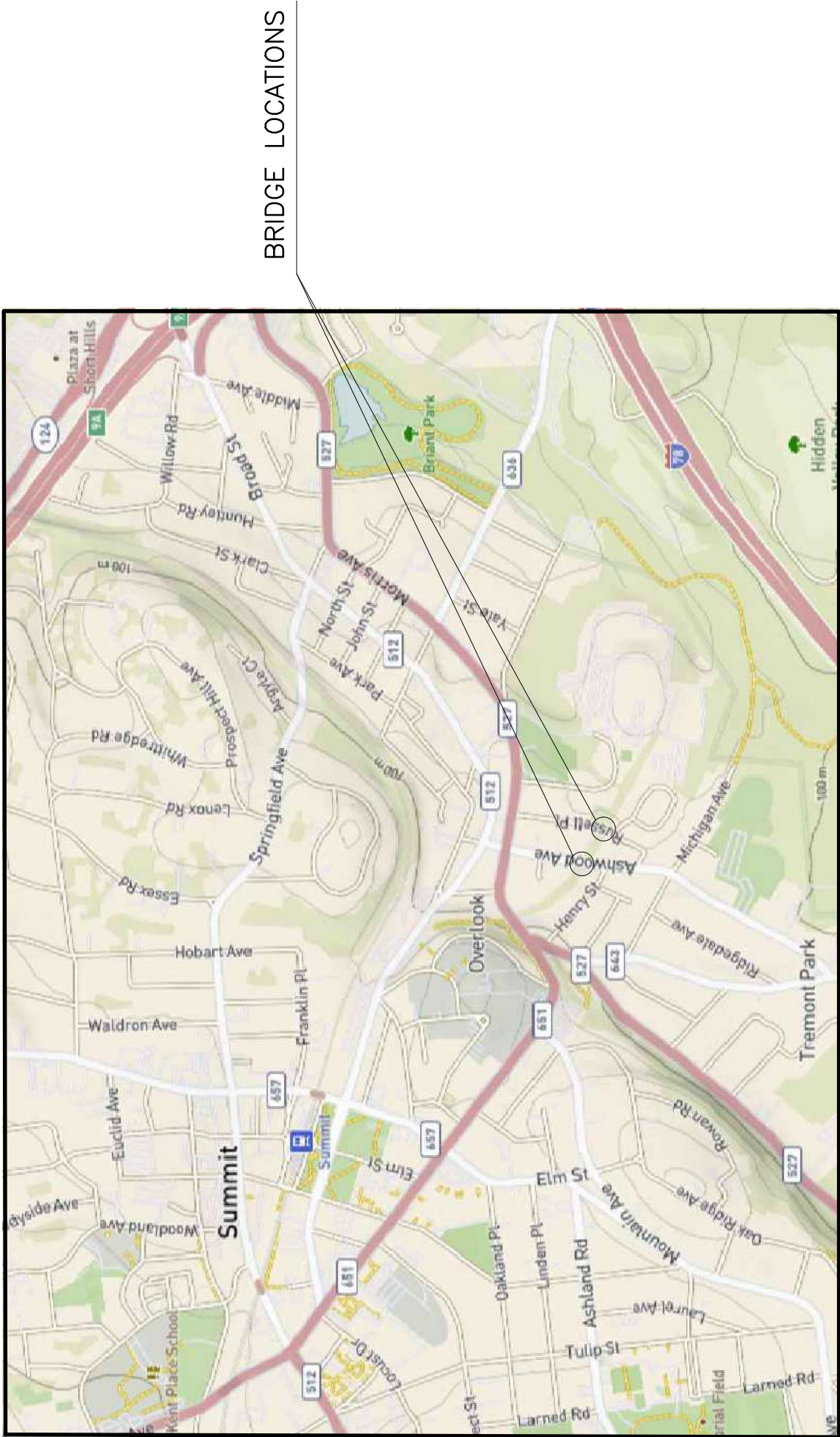
MAYOR
Mayor Elizabeth Fagan

COMMON COUNCIL
Lisa K. Allen
Delia Hamlet
Andy Minegar
Bob Pawlowski
Jamel Boyer
Greg Vartan
Kevin Smallwood

CITY ADMINISTRATOR
Michael F. Rodgers

DIRECTOR OF COMMUNITY SERVICES
Aaron Schrager, P.E.

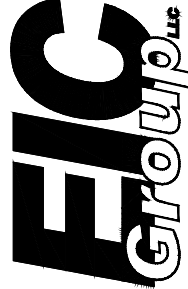
CITY ENGINEER
Aaron Schrager, P.E.



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22	STAIR AND RAILING DETAILS
23	BEARING DETAILS
24	SPALL REPAIR DETAILS

FINAL PLANS

October 2024

PREPARED BY:


CERTIFICATE OF AUTHORIZATION NO. 24GA28097900
420 ROUTE 46 EAST
FAIRFIELD, NJ 07004

VICTORIA ROTBERG
N.J. P.E. LICENSE #55833

GENERAL NOTES

1. DESIGN SPECIFICATIONS
AASHTO STANDARD SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES AND AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 17TH EDITION
2. CONSTRUCTION SPECIFICATIONS
THE 2007 NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE SUPPLEMENTAL SPECIFICATIONS.

3. LIVE LOAD
PEDESTRIAN LOAD: 90 PSF
VEHICLE LOAD: AASHTO H-5 VEHICLE
4. SUPERSTRUCTURE
A.) STRUCTURAL STEEL: AASHTO M270, GRADE 50 (ASTM A709, GRADE 50). PROPOSED AND EXISTING STEEL TO REMAIN TO BE PAINTED PER NJDOT SPECIFICATIONS.

EXISTING STEEL: EPOXY MASTIC URETHANE (EU) PAINT SYSTEM. SOLVENT CLEAN PER SSPC-SP1 AND THEN REMOVE LOOSE EXISTING PAINT BY HAND OR POWER TOOL. ROUGHEN EXISTING PAINT LEFT ON SURFACE. CONTAIN AND DISPOSE OF REMOVED PAINT. THE CONTRACTOR HAS THE OPTION TO BLAST CLEAN AND CONTAIN. THE CONTRACTOR HAS THE OPTION TO SUBMIT AN ALTERNATE PAINT SYSTEM SUBJECT TO REVIEW AND APPROVAL.

NEW STEEL: INORGANIC ZINC COATING SYSTEM (IEU) AS PER SECTION 906.06.01 OF THE SPECIFICATIONS.
FINISH COAT: BLACK FED-STD-595B CHIP NUMBER 27038.

B.) BOLTS TO BE ASTM F3125 GR. A325.
C.) WELDING TO BE E70XX AND IN ACCORDANCE WITH THE LATEST BRIDGE WELDING CODE.

D.) TIMBER DECK AND CURBS TO BE SOUTHERN YELLOW PINE NO. 2 WITH A MINIMUM ALLOWABLE BENDING CAPACITY = 850 PSI AND ALLOWABLE SHEAR STRENGTH = 165 PSI. DECK TO BE NOMINAL SIZE AND CURB TO BE TRUE SIZE.

E.) HARDWARE TO ATTACH TIMBER DECK TO BE A307 AND SHALL BE HOT DIPPED GALVANIZED AS PER ASTM 153.

F.) TIMBER TO BE TREATED WITH CCA AS PER NJDOT STANDARD SPECIFICATIONS 915.05.

5. SUBSTRUCTURE
CONCRETE DESIGN STRESSES:
DESIGN COMPRESSIVE STRENGTH (F'C)
ITEM CLASS F'C
CONCRETE ABUTMENT WALL B 3000 PSI
CLASS MIX SPECIFICATIONS, CLASS B: 3700 PSI
REINFORCEMENT STEEL: ASTM A615 (GRADE 60) EPOXY COATED
SEE SPALL REPAIR DETAIL SHEET FOR MATERIAL REQUIREMENTS.

6. EXISTING STRUCTURE AND FEATURES
A) A PORTION OF THE EXISTING BRIDGE IS TO REMAIN AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL TAKE CARE TO NOT DAMAGE PORTIONS TO REMAIN OR THE EXISTING BUILDING. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AT HIS/HER EXPENSE.
B) THE DIMENSIONS SHOWN ARE BASED ON CURSORY FIELD INSPECTION AND NOT GUARANTEED TO BE ACCURATE. THIS INCLUDES OVERALL LENGTH AND BEARING TO BEARING DISTANCE. THE CONTRACTOR SHALL FIELD MEASURE THE EXISTING BRIDGE PRIOR TO ORDERING MATERIALS. IF SIGNIFICANT DISCREPANCIES ARE FOUND FROM WHAT IS SHOWN, EIC GROUP LLC SHALL BE NOTIFIED FOR REVIEW.
C) EXISTING PLANS ARE NOT AVAILABLE, THEREFORE, THE EXACT CONFIGURATION OF THE ABUTMENT IS UNKNOWN. AFTER THE AREA IS EXCAVATED AND THE BACKWALL IS VISIBLE, IT MAY BE NECESSARY

CONTROL SECTION			
DES. BY	V.R.	CHK BY	MHM
DWN. BY	D.M./V.R.		
IN CHARGE OF		M.H.M.	

- TO MODIFY SOME DETAILS SHOWN TO ACCOMMODATE THE ACTUAL EXISTING CONDITION. THEREFORE, SOME MODIFICATIONS ARE TO BE EXPECTED.
- D) CONTRACTOR HAS THE OPTION TO REPAIR AND PAINT THE EXISTING STEEL IN-PLACE, OR TO REMOVE THE EXISTING STEEL AND PERFORM REPAIRS AND PAINT IN SHOP, THEN REINSTALL.

7. RAILING
A. THE RAILING MEMBER SIZES, POST SPACING, DETAILS ETC. ARE SHOWN FOR CONCEPT ONLY. CONTRACTOR SHALL FIELD MEASURE STRUCTURE AND DEVELOP SHOP DRAWINGS DEPICTING FINAL CONFIGURATION.
B. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DEPICTING RAILING DETAILS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NJ FOR REVIEW AND APPROVAL. RAILING TO BE CAPABLE OF SUPPORTING A HORIZONTAL 50 PLF LOAD AND MEET THE REQUIREMENTS IN THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

8. UTILITIES
THE CONTRACTOR SHALL CALL FOR A UTILITY MARKOUT TO DETERMINE ANY EXISTING UTILITIES LOCATED WITHIN THE PROJECT LIMITS PRIOR TO BEGINNING WORK.

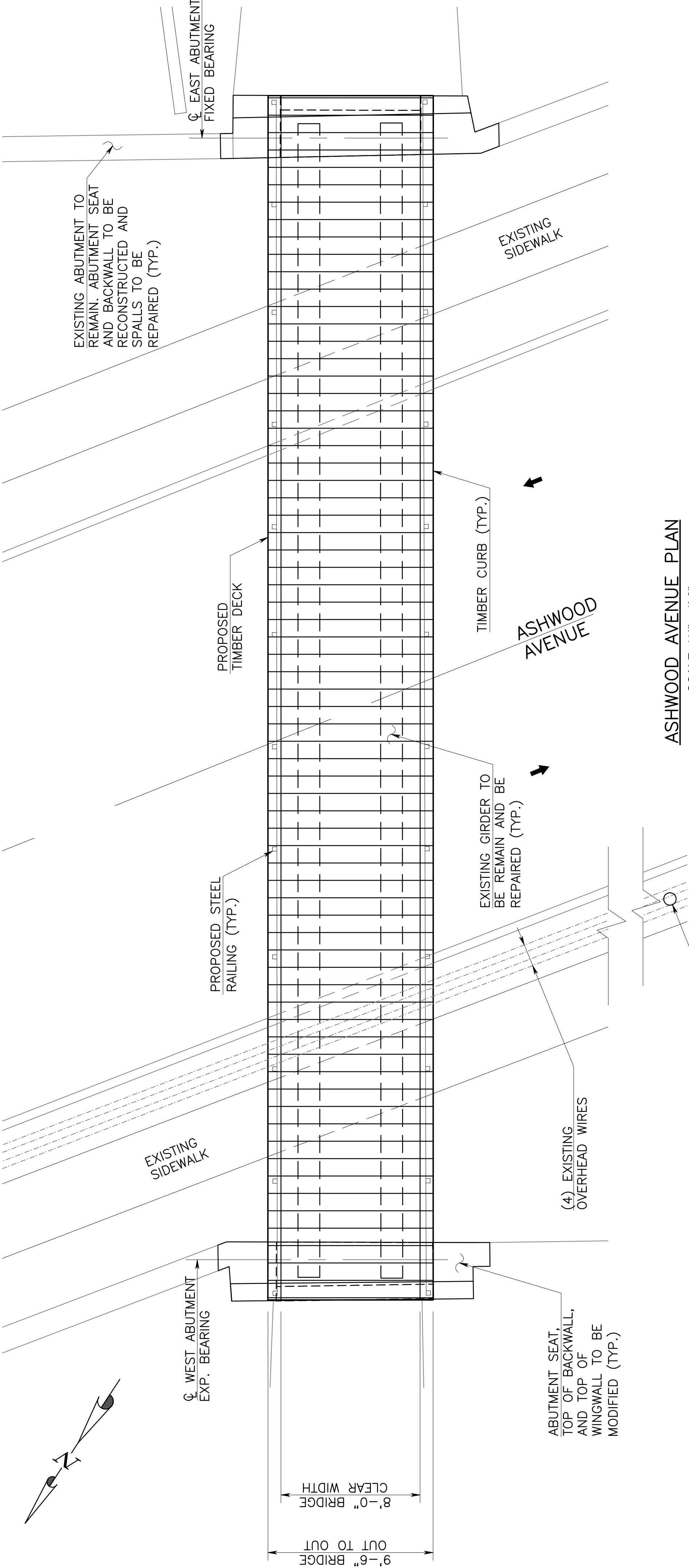
EXISTING OVERHEAD WIRES ARE PRESENT RUNNING BENEATH AND PARALLEL TO THE ASHWOOD AVENUE BRIDGE. OVERHEAD WIRES ARE ALSO PRESENT RUNNING BENEATH THE RUSSELL PLACE BRIDGE.

THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AS REQUIRED TO PERFORM THE WORK. IT IS RECOMMENDED THE CONTRACTOR VISIT THE SITE PRIOR TO BID TO DETERMINE ANY ANTICIPATED EFFECT OF THE UTILITIES ON CONSTRUCTION OPERATIONS.

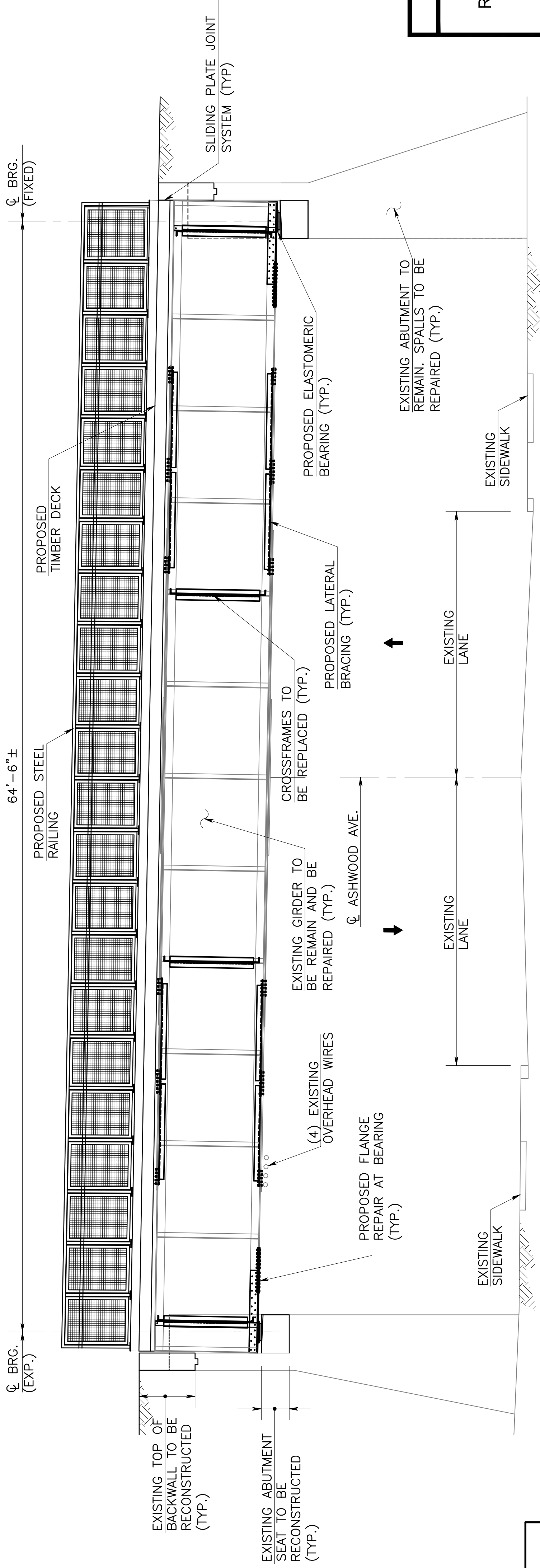
ESTIMATED QUANTITIES					
PAY ITEMS.	DESCRIPTION	UNITS	ASHWOOD QUANTITIES	RUSSELL PLACE QUANTITIES	
1	MOBILIZATION	LS	1	1	1
2	FINAL CLEANUP	LS	1	1	1
3	CLEARING SITE BRIDGE	LS	1	1	1
4	REINFORCEMENT STEEL EPOXY – COATED	LB	1200	830	
5	REINFORCEMENT STEEL	LB	175	125	
6	CONCRETE ABUTMENT WALL	CY	7	5	
7	EPOXY WATERPROOFING	SY	7	6	
8	TEMPORARY SUPPORT	LS	1	1	
9	STRUCTURAL BEARING ASSEMBLY	UNIT	4	4	
10	ANCHOR BOLT INSTALLATION	UNIT	8	8	
11	SHEAR CONNECTOR	UNIT	66	100	
12	STRUCTURAL STEEL	LS	1	1	
13	DECK JOINT ASSEMBLY	LF	14	14	
14	BRIDGE RAILING	LF	125	92	
15	TIMBER DECKING	CF	766	558	
16	PRESSURE WASHING AND FINISH OF SUBSTRUCTURE	LS	1	1	
17	CONCRETE SPALL REPAIR TYPE 1	SF	20	52	
18	CONCRETE SPALL REPAIR TYPE 2	CF	40	103	
19	POLLUTION CONTROL SYSTEM	LS	1	1	
20	PAINT EXISTING BRIDGES	LS	1	1	
21	TESTING IF AND WHERE DIRECTED	LS	1	1	
22	PEDESTRIAN STAIRWAY	LS	1	1	

CITY OF SUMMIT	
SUMMIT PARK LINE PATHWAY	
REHABILITATION OF ASHWOOD AVE BRIDGE AND RUSSELL PLACE BRIDGES	
GENERAL NOTES AND INDEX OF SHEETS	
EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. 0406090000	DATE: 3/1/2024
VICTORIA ROTBERG N.J.P.E. LICENSE #55833	SCALE: AS SHOWN
	SHEET NO: 1 OF 24

REVISION	BY	CKD.	DATE		



ASHWOOD AVENUE PLAN
SCALE: 1/4" = 1'-0"



ASHWOOD AVENUE ELEVATION
SCALE: 1/4" = 1'-0"
(LOOKING NORTH)

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8	FRAMING AND DECK PLAN
9-10	STEEL AND DECK DETAILS

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES

ASHWOOD AVENUE
GENERAL PLAN AND ELEVATION

EIC GROUP LLC
CERTIFICATE OF AUTHORIZATION
NO. J040269700

DATE: 3/1/2024

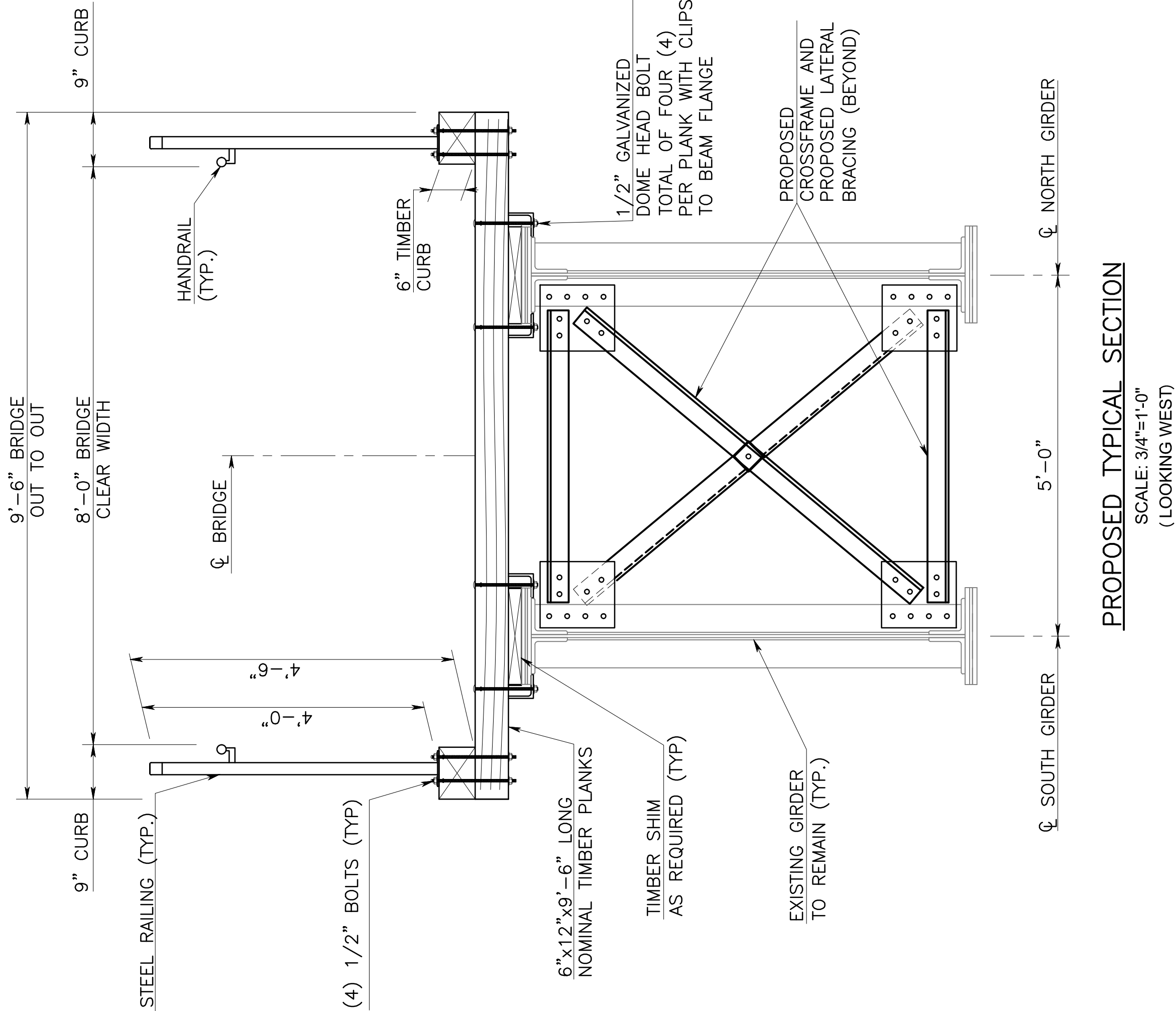
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SHEET NO: 2 OF 24

REVISION	BY	CKD.	DATE

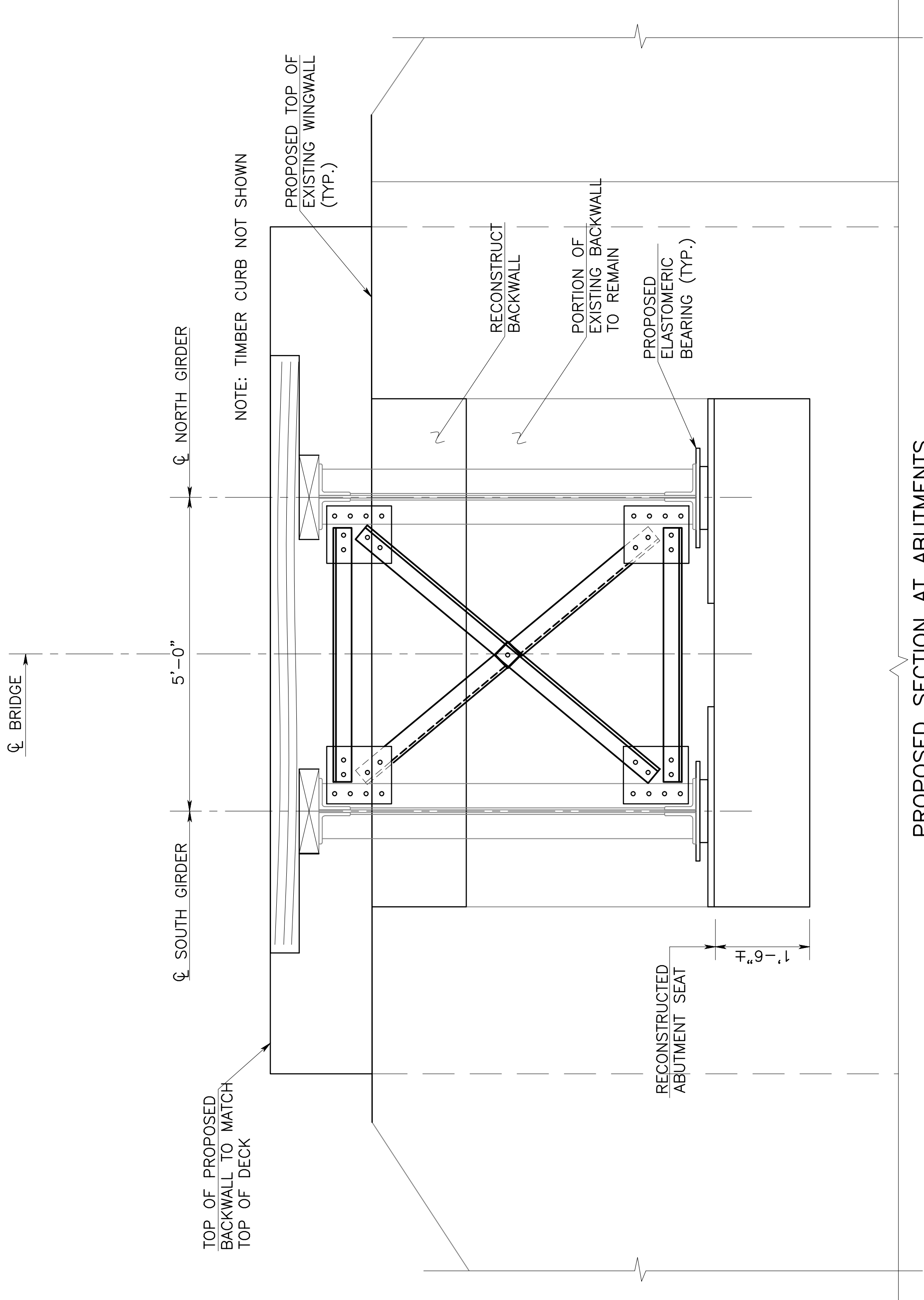
IN CHARGE OF M.H.M.

CONTROL SECTION		CHK BY	
DES. BY	V.R.	D.M./V.R.	M.H.M.



PROPOSED TYPICAL SECTION

SCALE: 3/4"=1'-0"
(LOOKING WEST)



PROPOSED SECTION AT ABUTMENTS

SCALE: 3/4"=1'-0"
(FOR DETAILS NOT CALLED OUT, SEE PROPOSED TYPICAL SECTION)
(LOOKING WEST)

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES

ASHWOOD AVE.
CROSS SECTIONS

EIC GROUP LLC
CERTIFICATE OF AUTHORIZATION
NO. 34406997400

DATE: 3/1/2024

SCALE: AS SHOWN

VICTORIA ROTBERG
N.J.P.E. LICENSE #55833

REVISION	BY	CKD.	DATE

3

24

SHEET NO: OF

CONTROL SECTION

DES. BY V.R.

DWN. BY D.M./V.R.

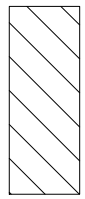
CHK. BY MHM

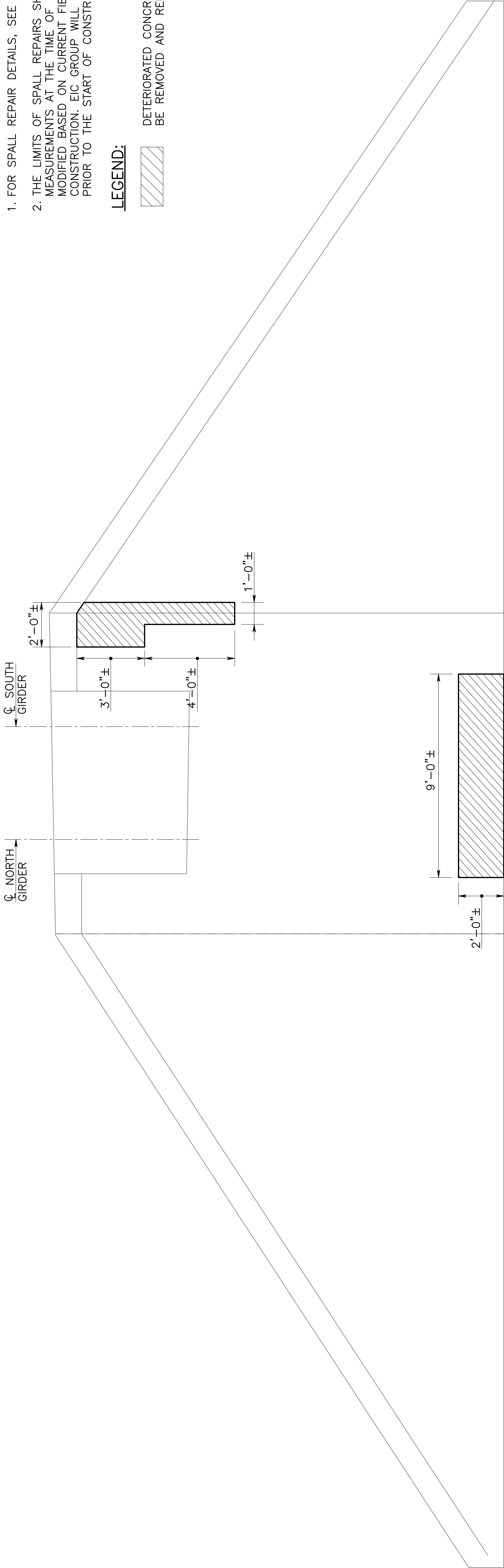
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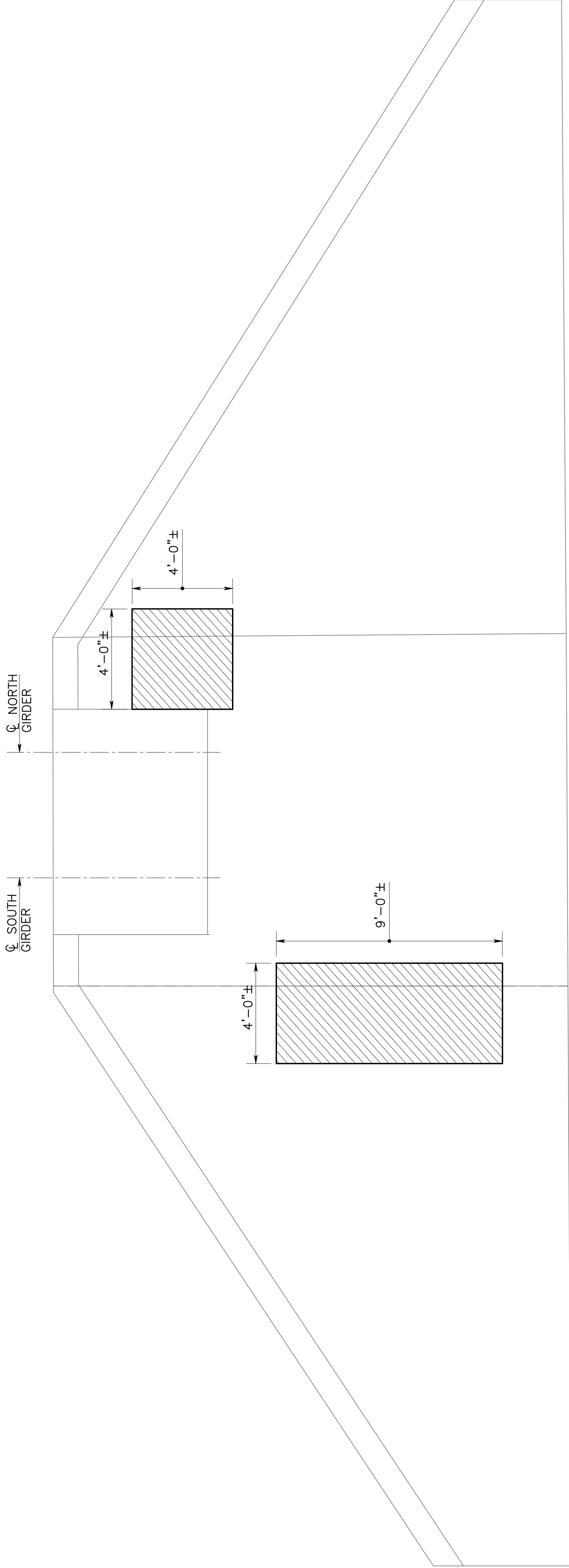
1. FOR SPALL REPAIR DETAILS, SEE SHEET 24.
2. THE LIMITS OF SPALL REPAIRS SHOWN ARE BASED ON FIELD MEASUREMENTS AT THE TIME OF DESIGN, HOWEVER, THE LIMITS MAY BE MODIFIED BASED ON CURRENT FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. EIC GROUP WILL MARK OUT LIMITS OF SPALL REPAIR PRIOR TO THE START OF CONSTRUCTION.

LEGEND:

 DETERIORATED CONCRETE TO BE REMOVED AND REPAIRED



EAST ABUTMENT ELEVATION
SCALE: 3/8"=1'-0"



WEST ABUTMENT ELEVATION
SCALE: 3/8"=1'-0"

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES

ASHWOOD AVENUE
ABUTMENT SPALL REPAIRS

EIC GROUP LLC
CERTIFICATE OF AUTHORIZATION
NO. 24042807000

DATE: 3/1/2024

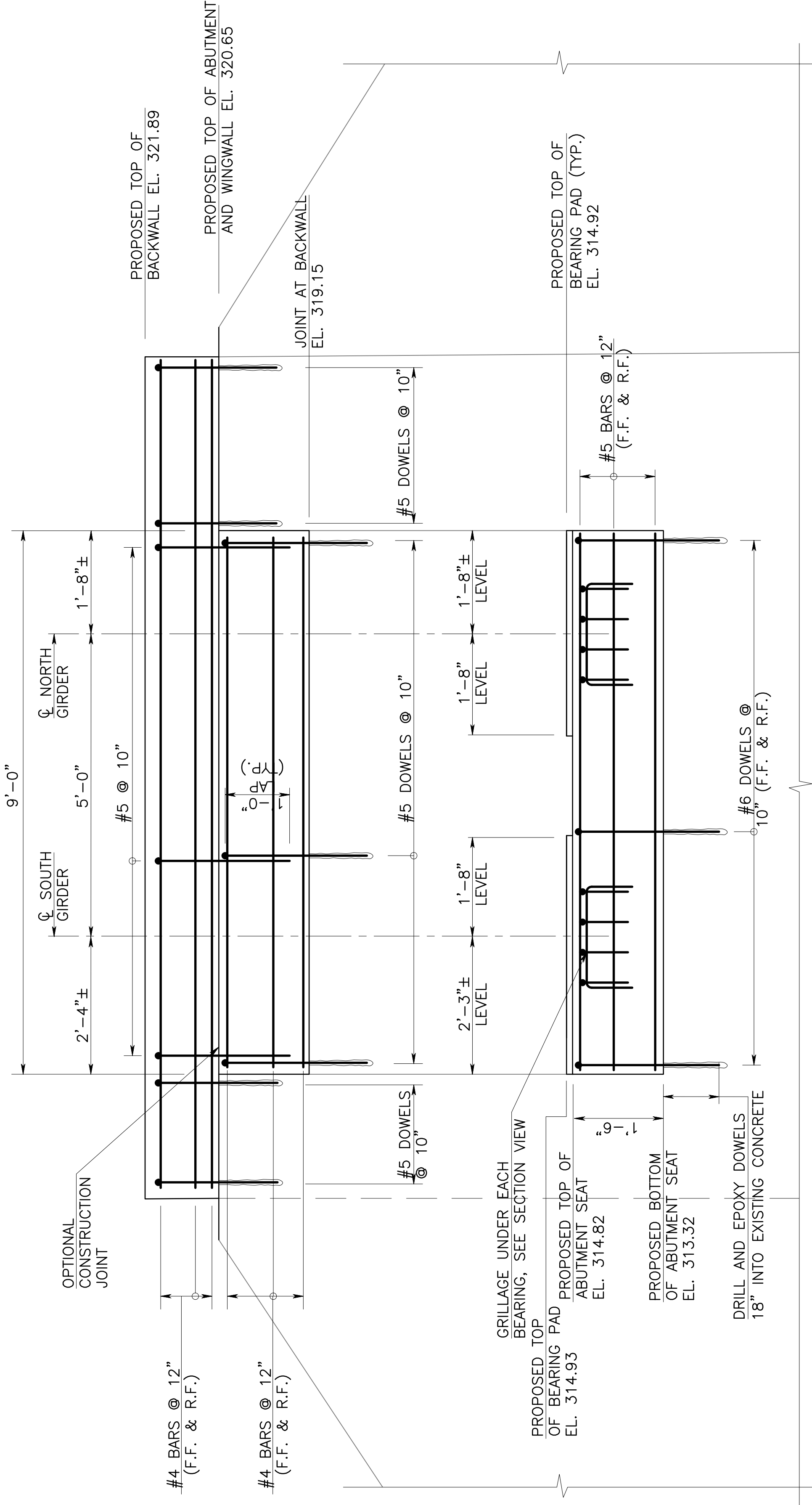
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SHEET NO: 5 OF 24

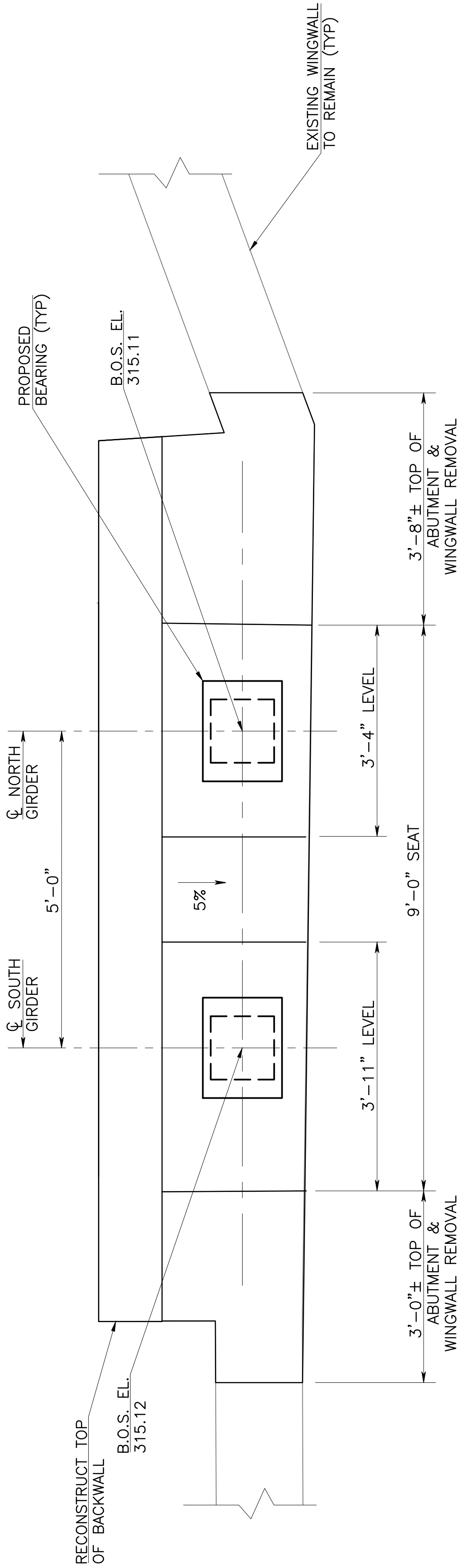
VICTORIA ROTBERG
N.J.P.E. LICENSE #55833

REVISION	BY	CK'D.	DATE

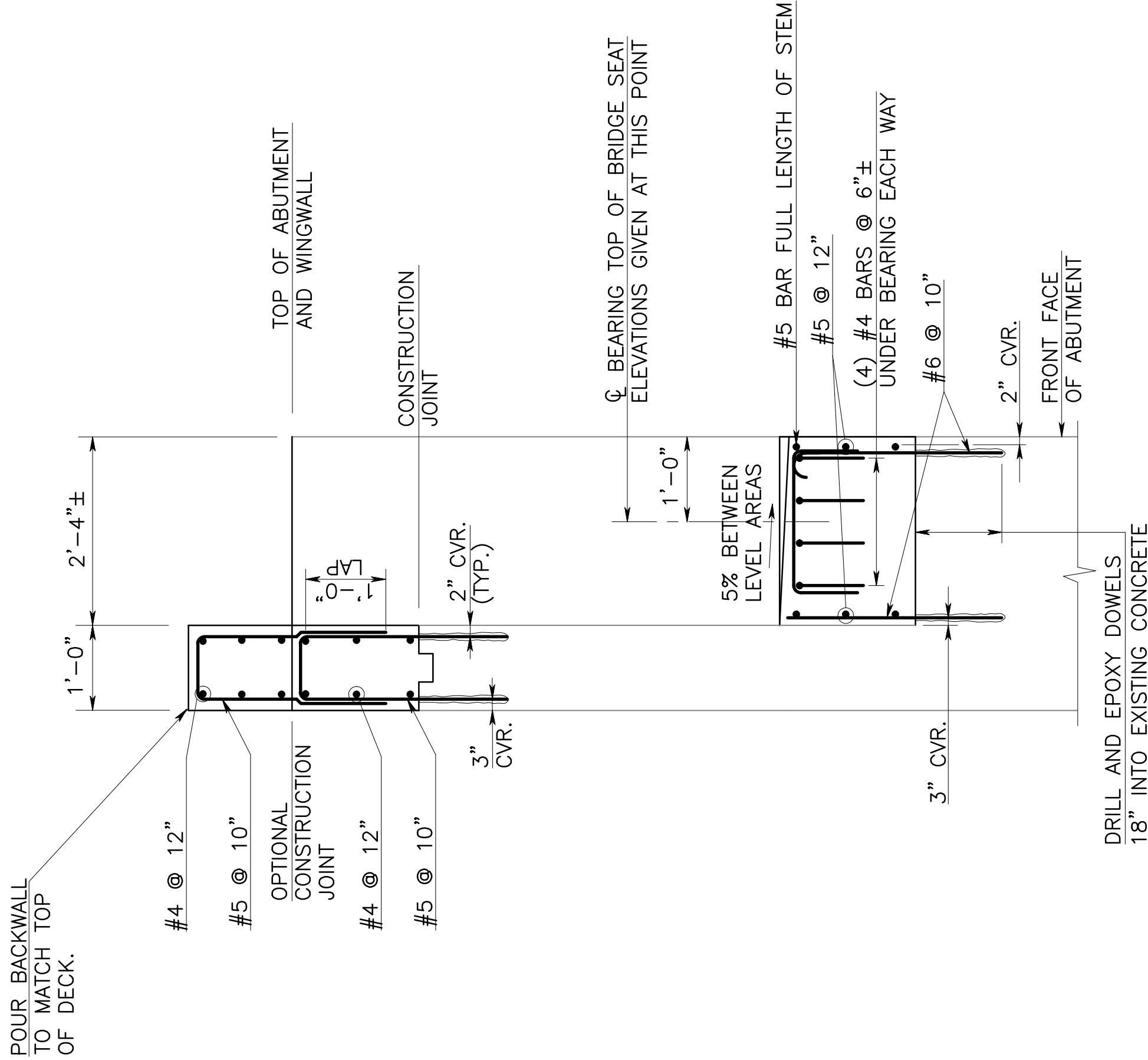
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DES. BY	V.R.	CHK BY	M.H.M.
DWN. BY	D.M./V.R.		
IN CHARGE OF		M.H.M.	



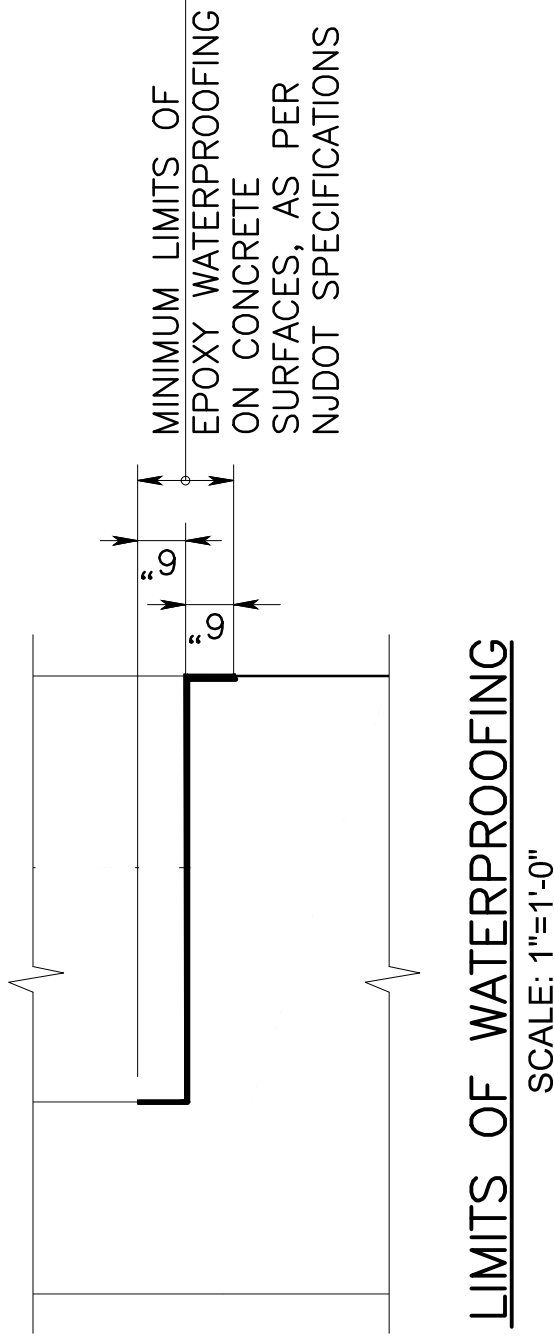
ABUTMENT ELEVATION
SCALE: 3/4"=1'-0"



ABUTMENT SEAT PLAN
SCALE: 3/4"=1'-0"



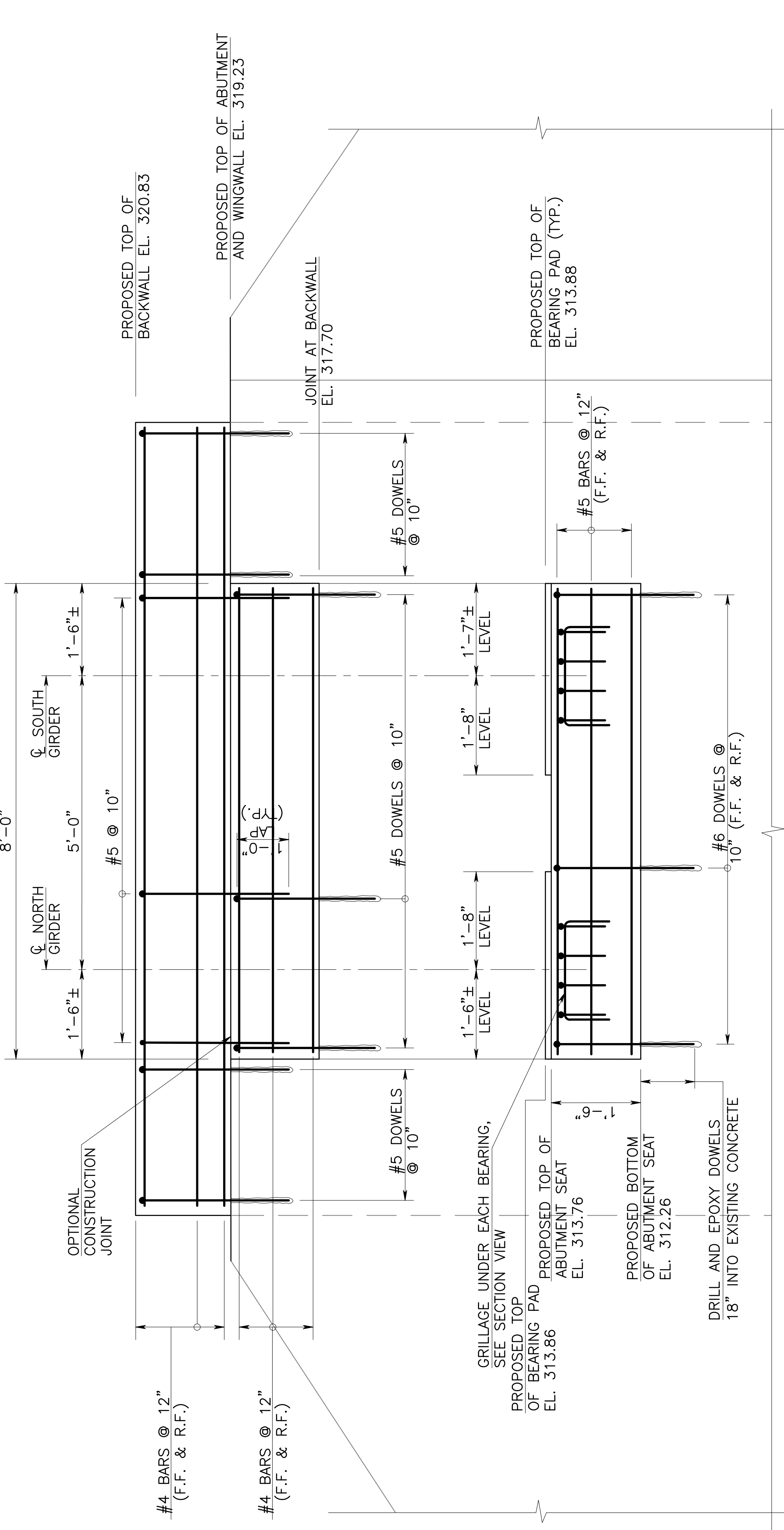
ABUTMENT SECTION
SCALE: 3/4"=1'-0"



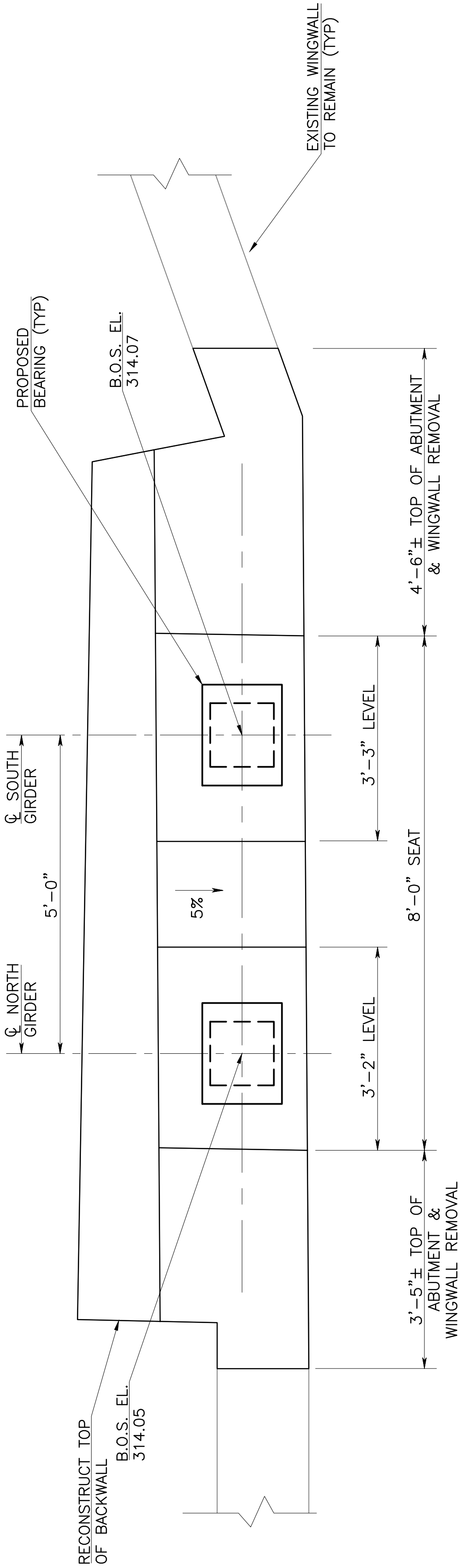
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DES. BY	V.R.	CHK BY	MHM
DWN. BY	D.M./V.R.		
IN CHARGE OF M.H.M.			

REVISION	BY	CKD.	DATE		

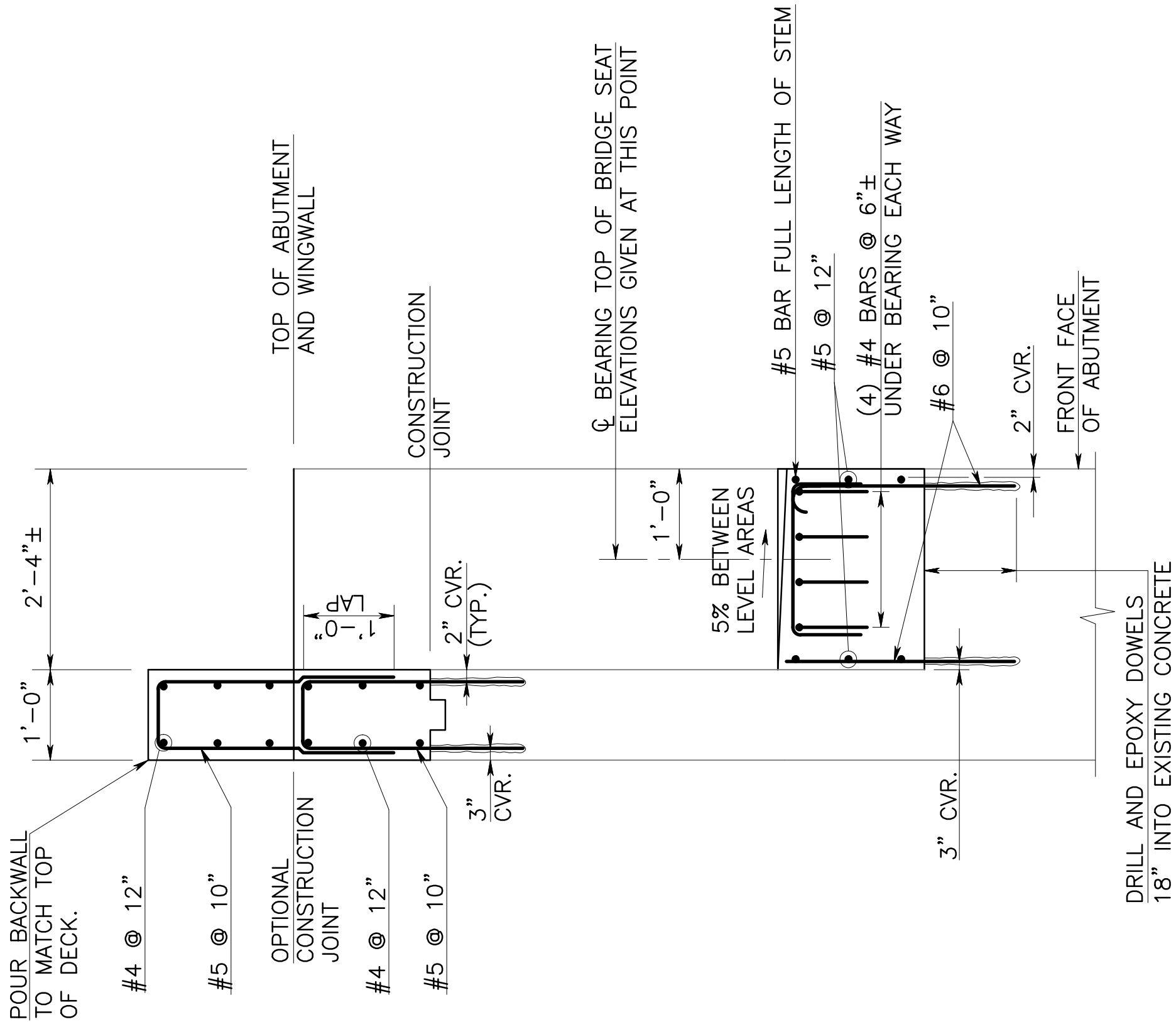
CITY OF SUMMIT		SUMMIT PARK LINE PATHWAY	
REHABILITATION OF ASHWOOD AVE BRIDGE AND RUSSELL PLACE BRIDGES		ASHWOOD AVENUE WEST ABUTMENT RECONSTRUCTION	
EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. J040609700		DATE: 3/1/2024	6
VICTORIA ROTBERG N.J. P.E. LICENSE #55833		SCALE: AS SHOWN	24
		SHEET NO. OF	



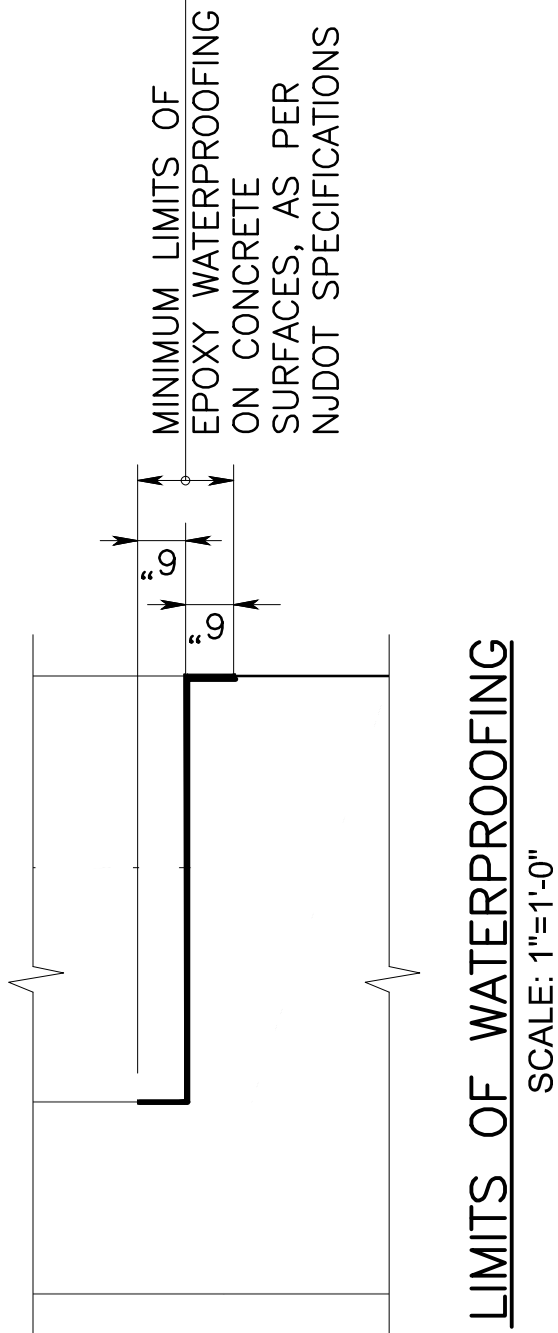
ABUTMENT ELEVATION
SCALE: 3/4"=1'-0"



ABUTMENT SEAT PLAN
SCALE: 3/4"=1'-0"

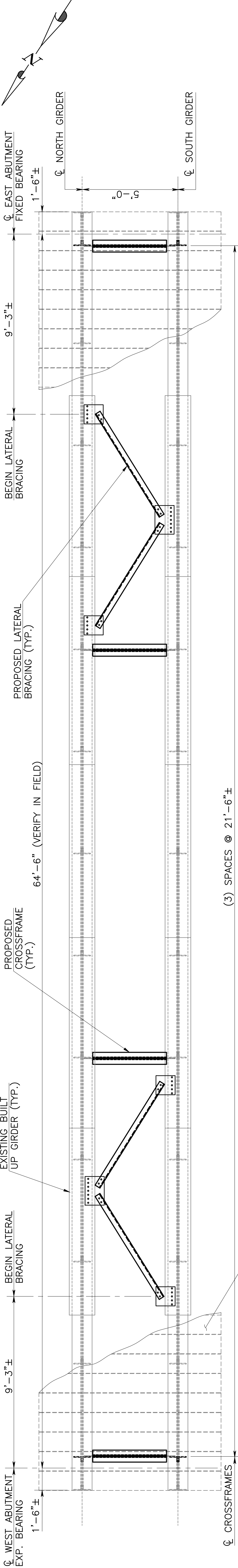


ABUTMENT SECTION
SCALE: 3/4"=1'-0"



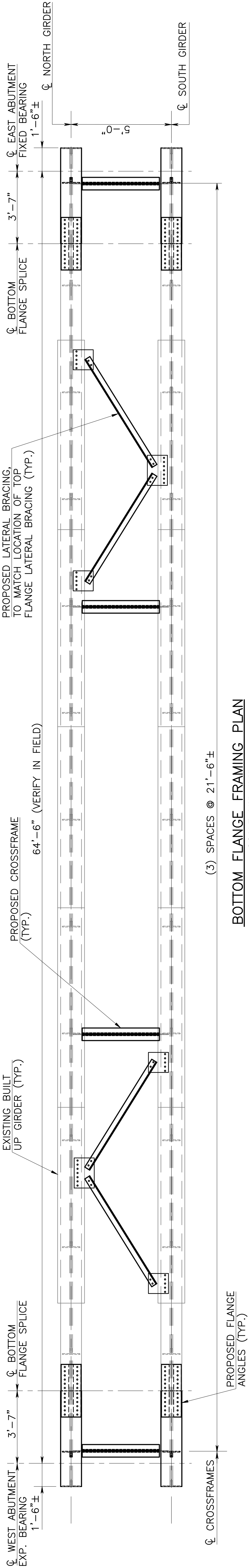
LIMITS OF WATERPROOFING
SCALE: 1"=1'-0"

CITY OF SUMMIT				EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. JAG46897940		DATE: 3/1/2024	7
SUMMIT PARK LINE PATHWAY				VICTORIA ROTBERG N.J. P.E. LICENSE #55833		SCALE: AS SHOWN	24
REHABILITATION OF ASHWOOD AVE BRIDGE AND RUSSELL PLACE BRIDGES				ASHWOOD AVENUE EAST ABUTMENT RECONSTRUCTION		SHEET NO: ____ OF ____	
DES. BY	V.R.	CHK. BY	M.H.M.	REVISION	BY	CKD.	DATE
DWN. BY	D.M.V.R.						
IN CHARGE OF M.H.M.							



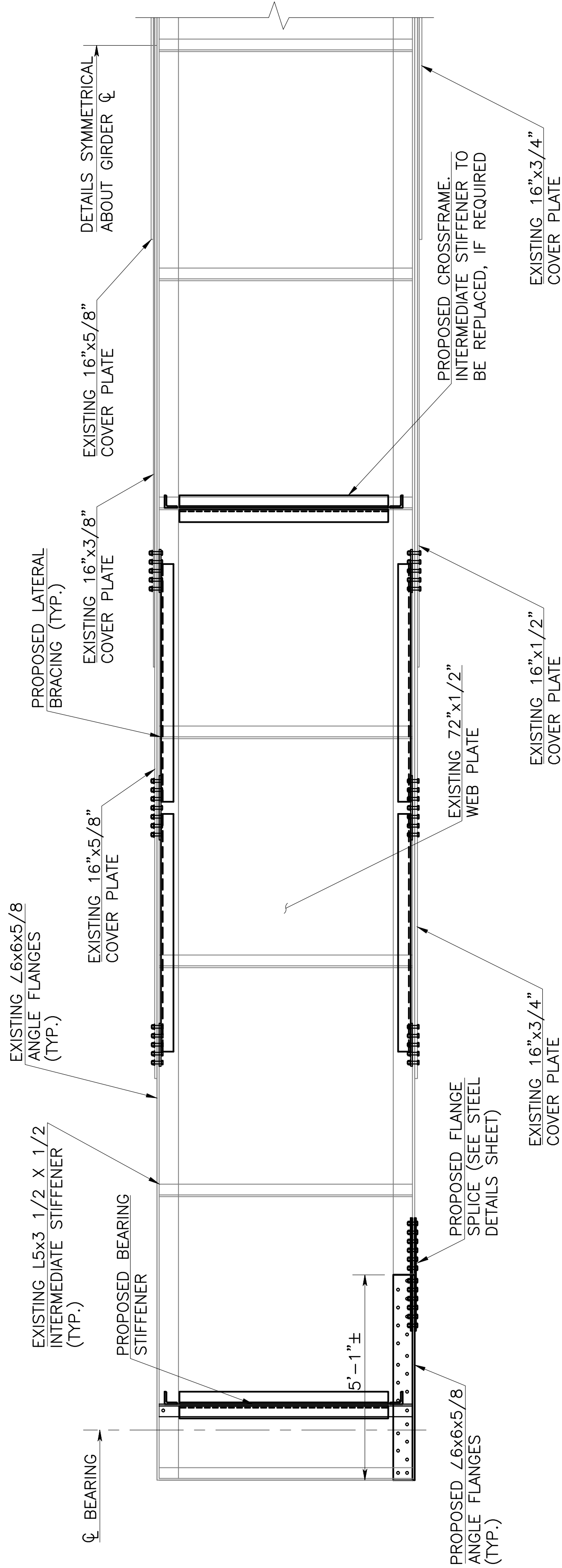
TOP FLANGE FRAMING PLAN

SCALE: 3/8"= 1'-0"



BOTTOM FLANGE FRAMING PLAN

SCALE: 3/8"= 1'-0"



GIRDER HALF ELEVATION

SCALE: 1/2"= 1'-0"

NOTES:

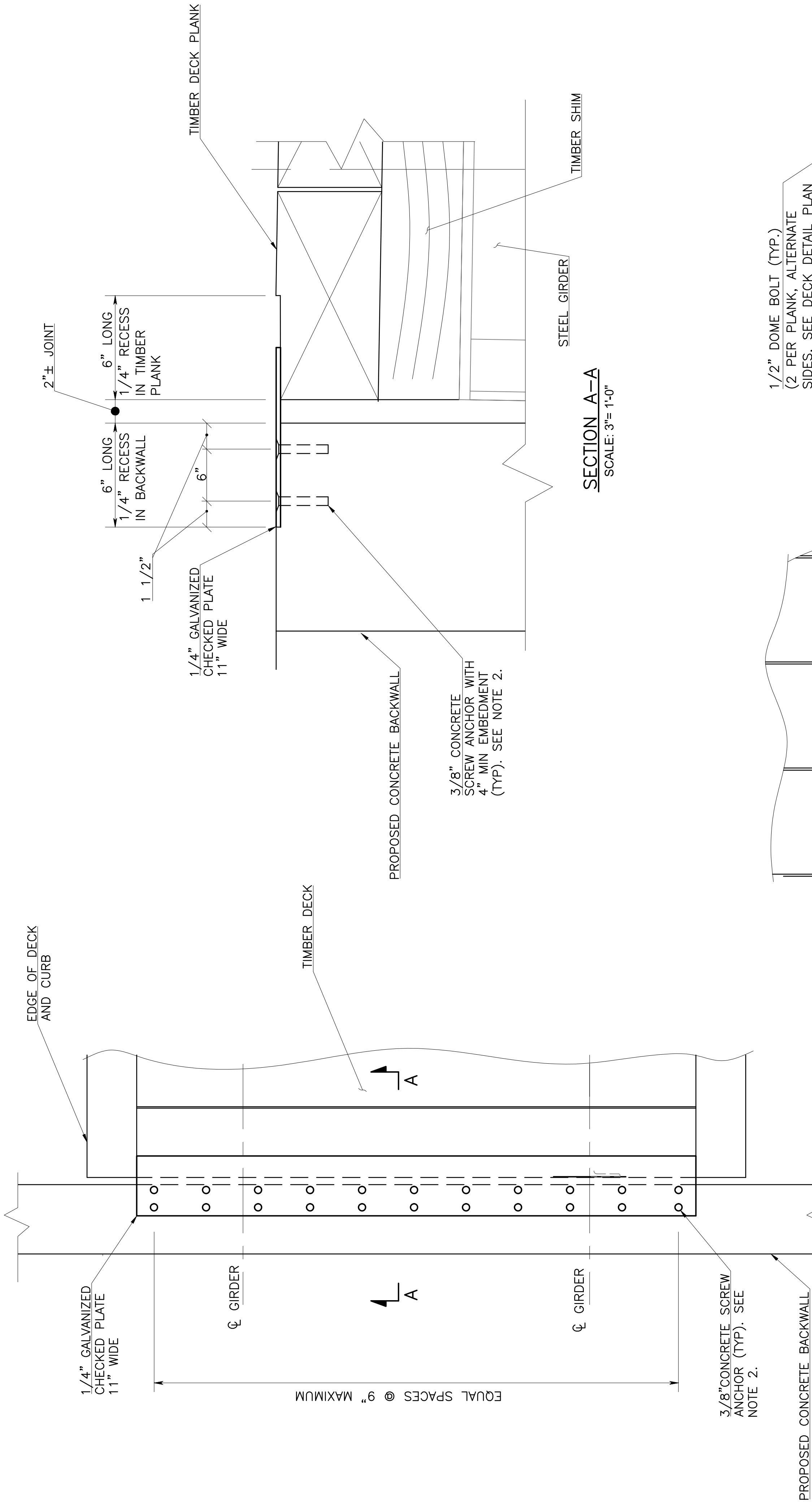
1. FOR STEEL AND DECK DETAILS, SEE SHEETS 9-10.
2. FOR GENERAL NOTES, SEE SHEET 1.

CITY OF SUMMIT
SUMMIT PARK LINE PATHWAY
REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES
ASHWOOD AVENUE
FRAMING & DECK PLAN

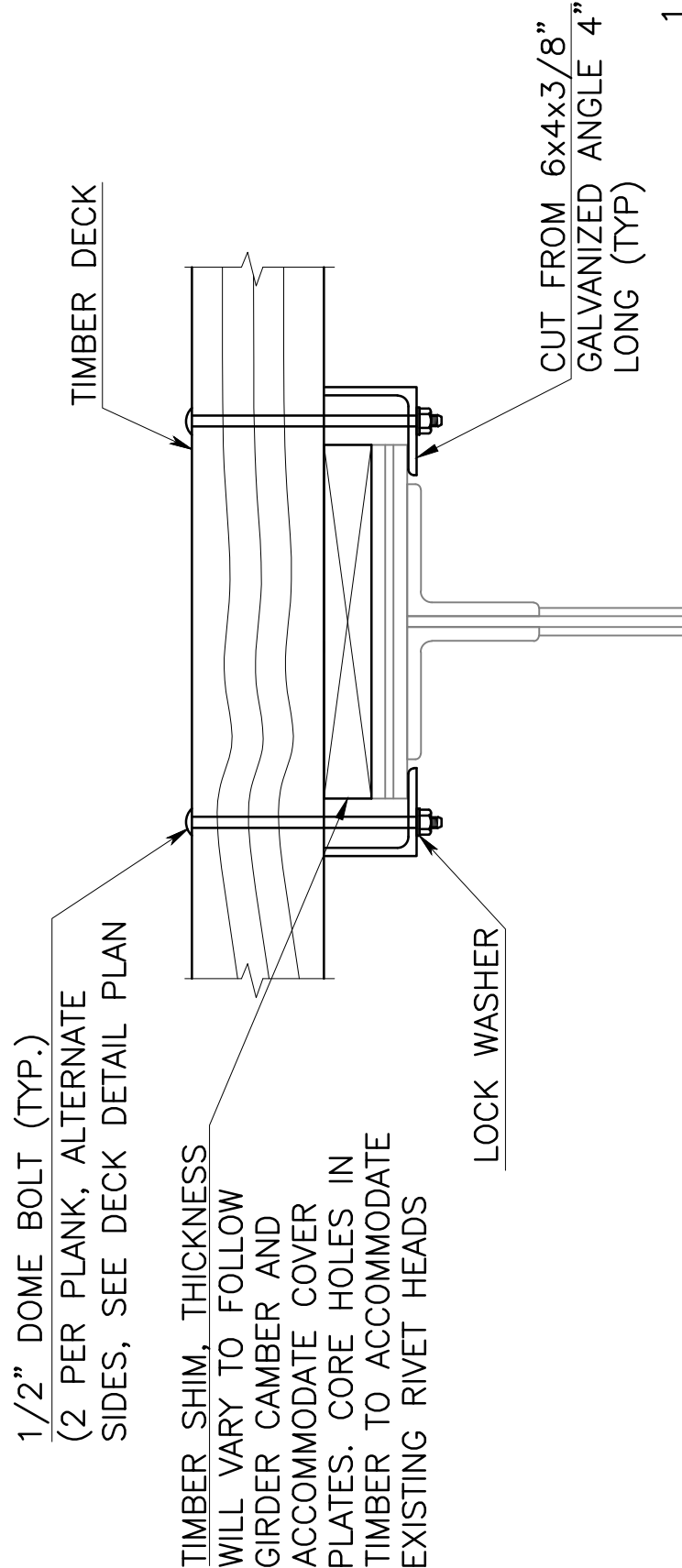
REVISION	BY	CK'D.	DATE		

EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. 3440269700	DATE: 3/1/2024	8
VICTORIA ROTBERG N.J.P.E. LICENSE #55833	SCALE: AS SHOWN	24
	SHEET NO: _____	OF _____

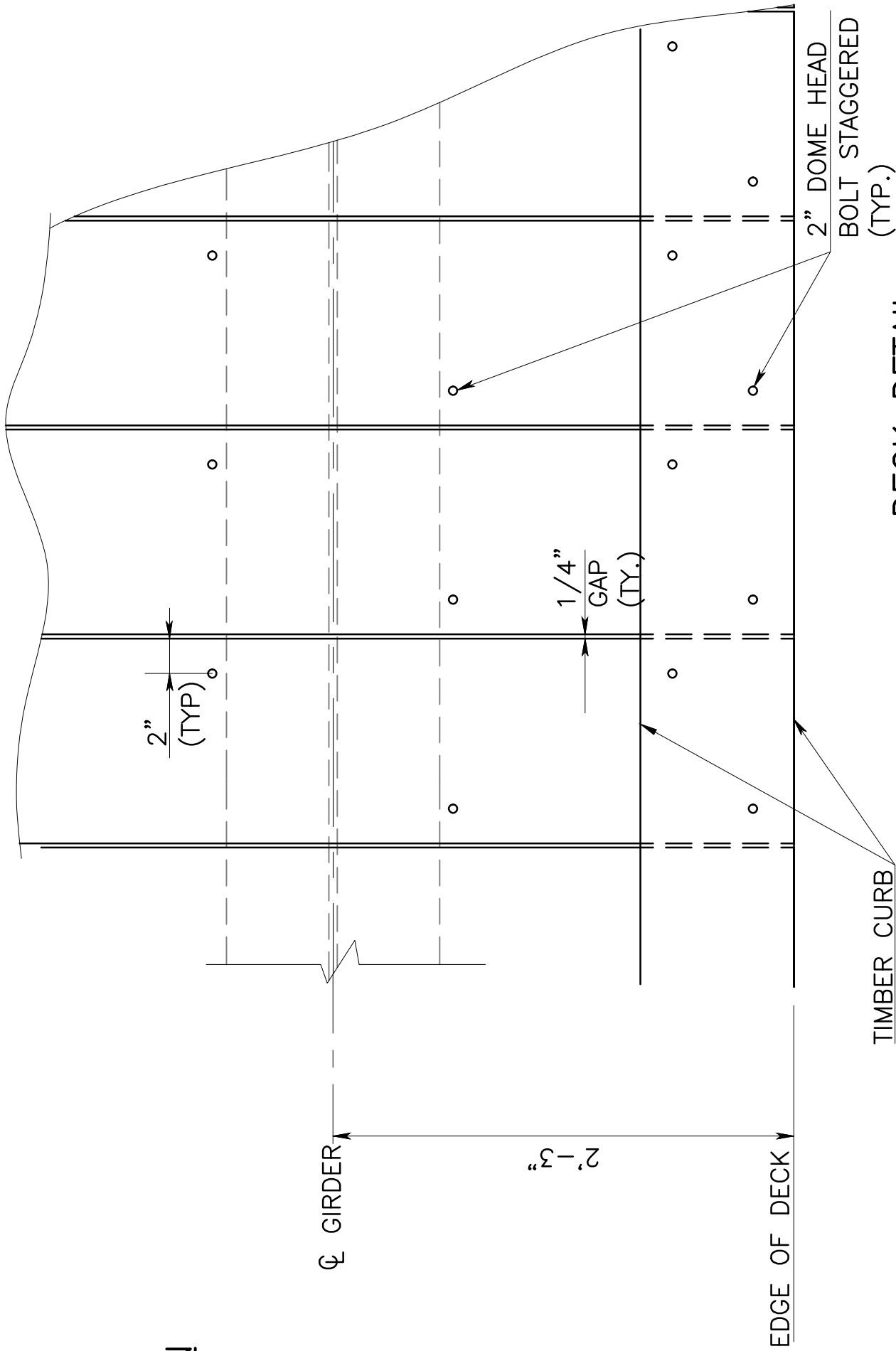
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DES. BY	V.R.	CHK. BY	MHM
DWN. BY	D.M.V.R.		
IN CHARGE OF		M.H.M.	



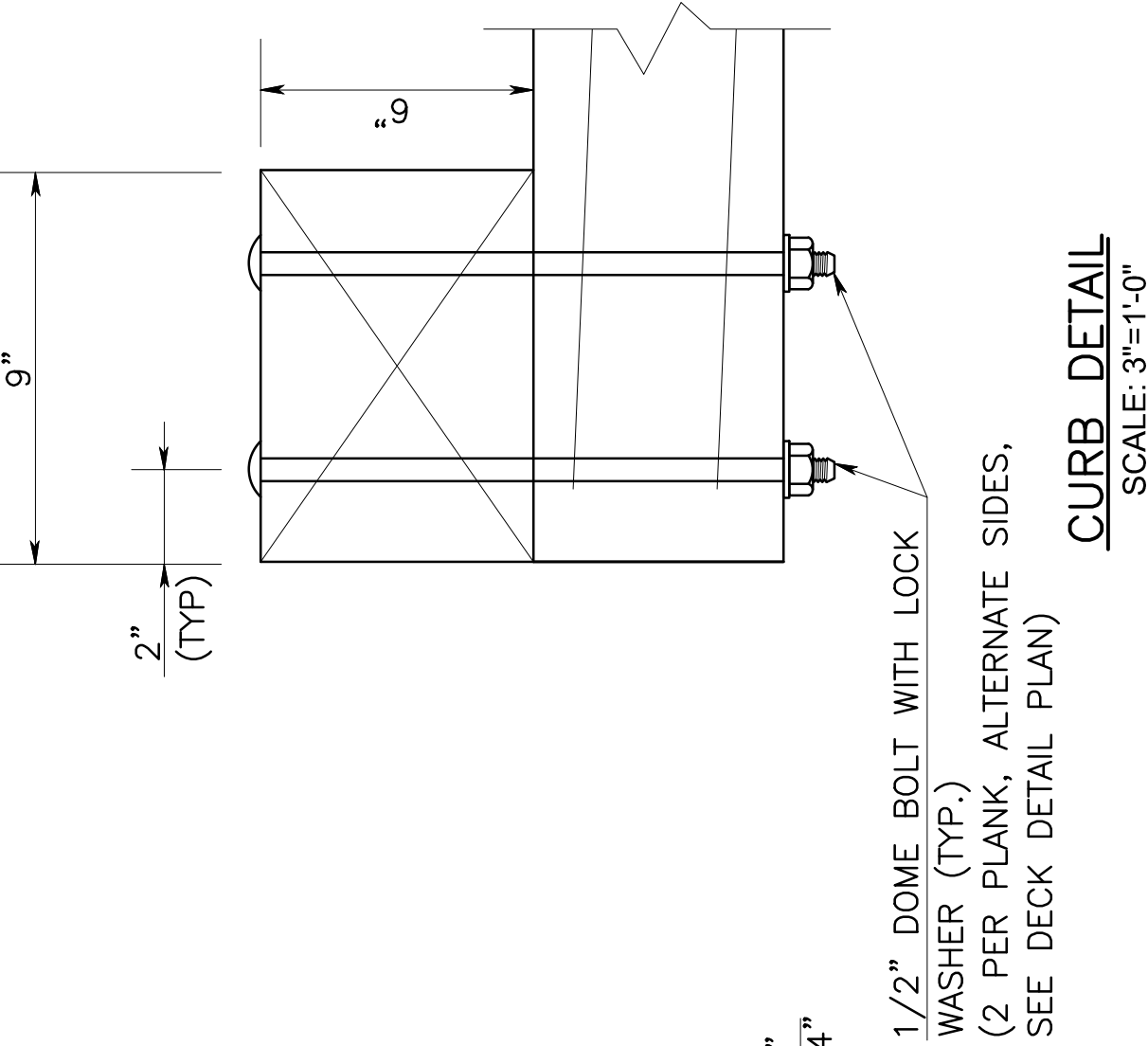
SECTION A-A
SCALE: 3"=1'-0"



CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"



DECK DETAIL
SCALE: 1 1/2"=1'-0"



CURB DETAIL
SCALE: 3"=1'-0"

NOTES:

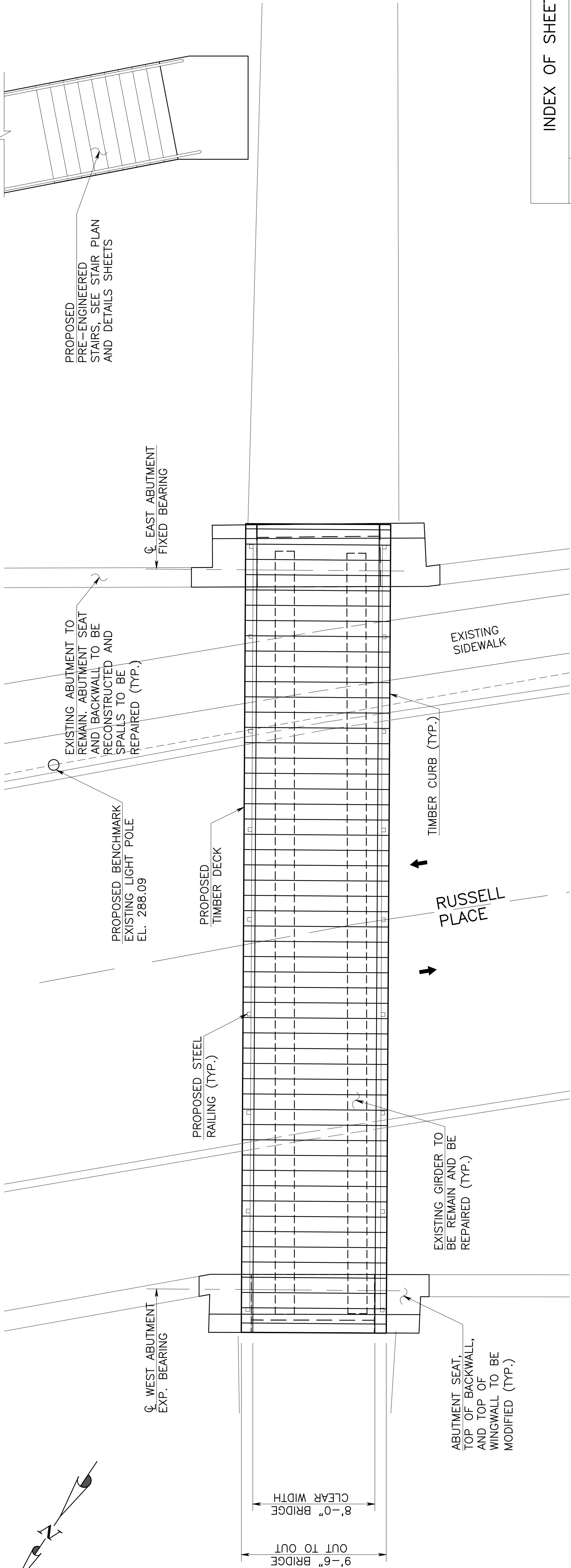
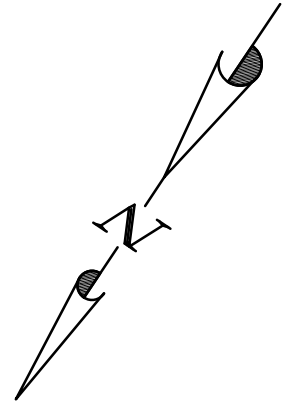
- STEEL CHECKED PLATE SHALL BE GALVANIZED AS PER ASTM A153.
- CONCRETE ANCHORS SHALL HIITI KH-EZ C COUNTERSUNK ANCHOR ZINC PLATED OR APPROVED EQUAL. ALL MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED REGARDING INSTALLATION.
- FOR GENERAL NOTES, SEE SHEET 1.

CONTROL SECTION			
DES. BY	V.R.	CHK. BY	M.H.M.
DWN. BY	D.M./V.R.		
IN CHARGE OF		M.H.M.	

CITY OF SUMMIT
SUMMIT PARK LINE PATHWAY
REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES
ASHWOOD AVENUE
DECK DETAILS

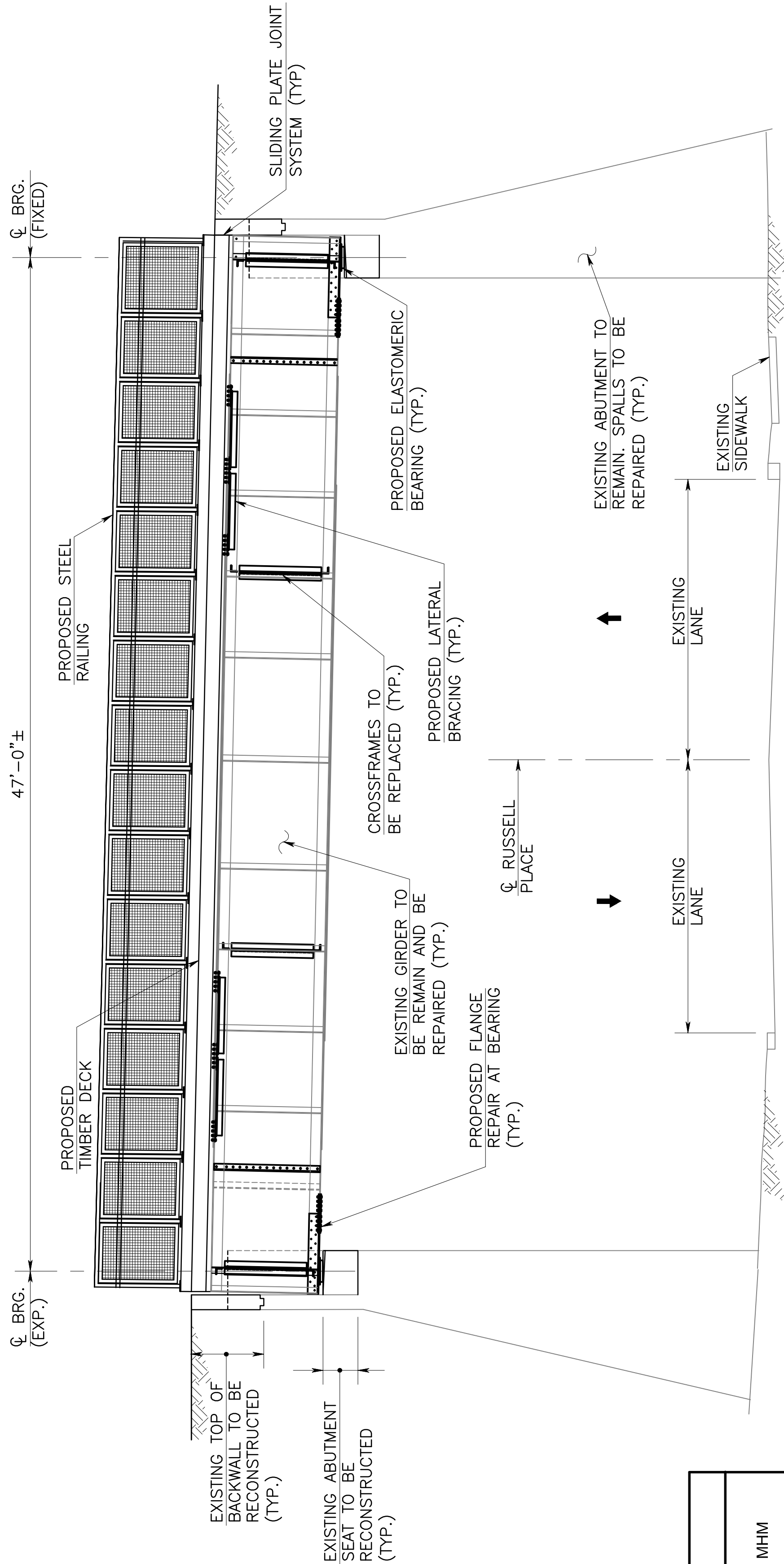
REVISION	BY	CKD.	DATE		

EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. JAG46897400	DATE: 3/1/2024
VICTORIA ROTBERG N.J.P.E. LICENSE #55833	SCALE: AS SHOWN
	SHEET NO: OF



RUSSELL PLACE PLAN
SCALE: 1/4" = 1'-0"

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13	DEMOLITION DETAILS
14-16	ABUTMENT RECONSTRUCTION DETAILS
17	FRAMING AND DECK PLAN
18-19	STEEL AND DECK DETAILS
20-22	STAIR PLAN AND DETAILS



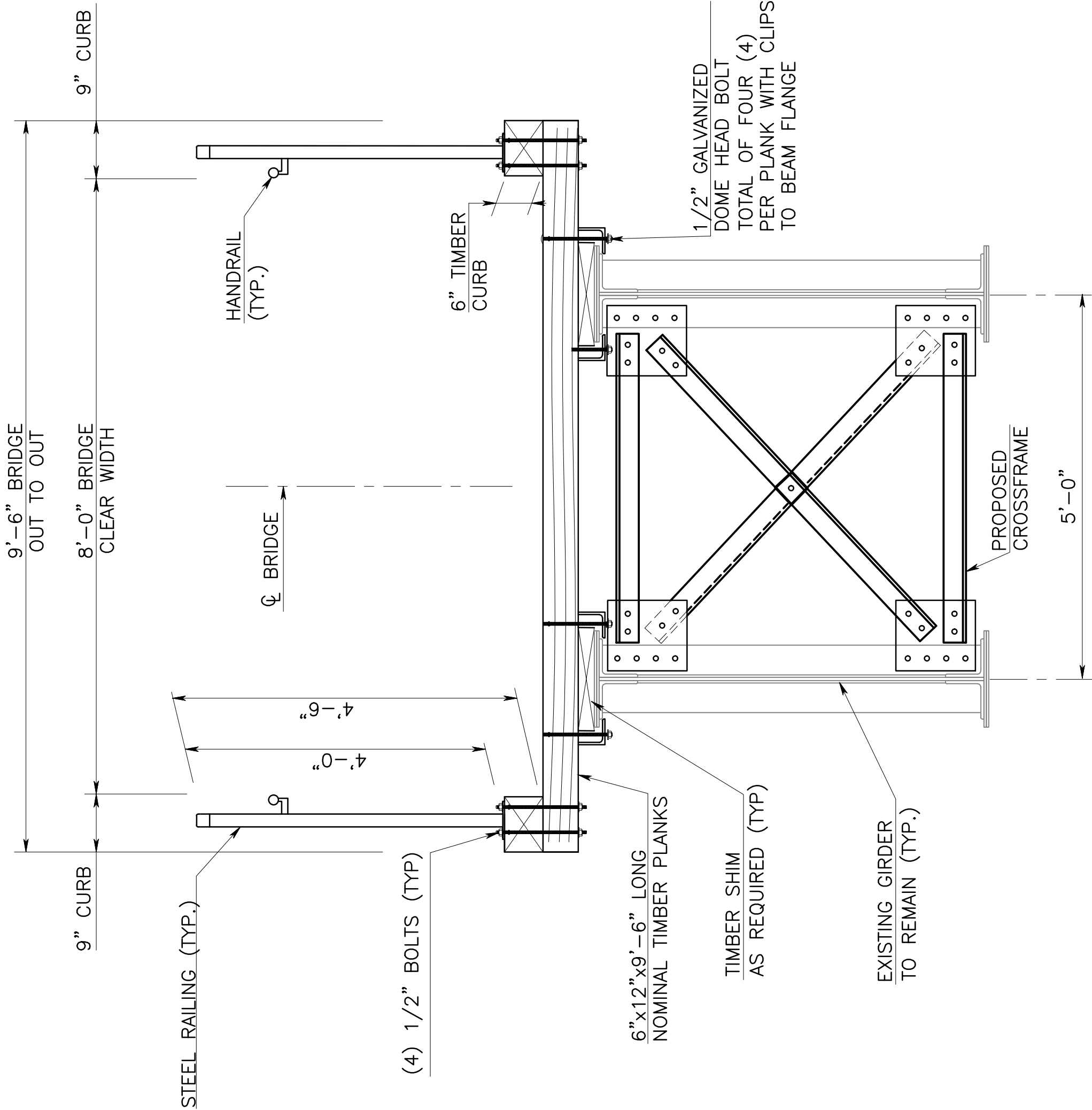
ELEVATION
SCALE: 1/4" = 1'-0"

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY
REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES
RUSSELL PLACE
GENERAL PLAN AND ELEVATION

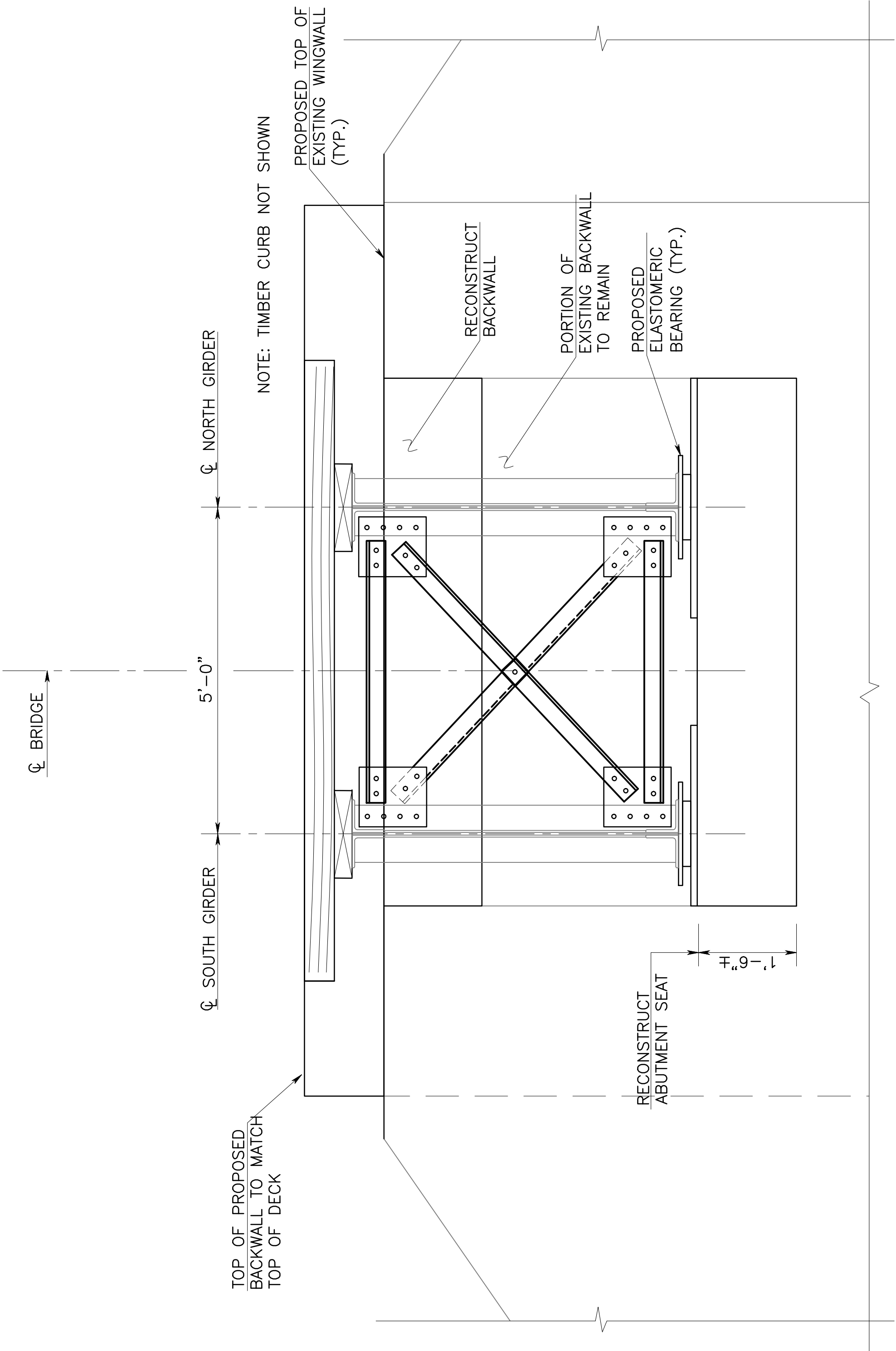
REVISION	BY	CKD.	DATE		

EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. JAG46897400	DATE: 3/1/2024
VICTORIA ROTBERG N.J.P.E. LICENSE #55833	SCALE: AS SHOWN
	SHEET NO: 11 OF 24



PROPOSED TYPICAL SECTION

SCALE: 3/4"=1'-0"



PROPOSED SECTION AT ABUTMENTS

SCALE: 3/4"=1'-0"

(FOR DETAILS NOT CALLED OUT, SEE PROPOSED TYPICAL SECTION)

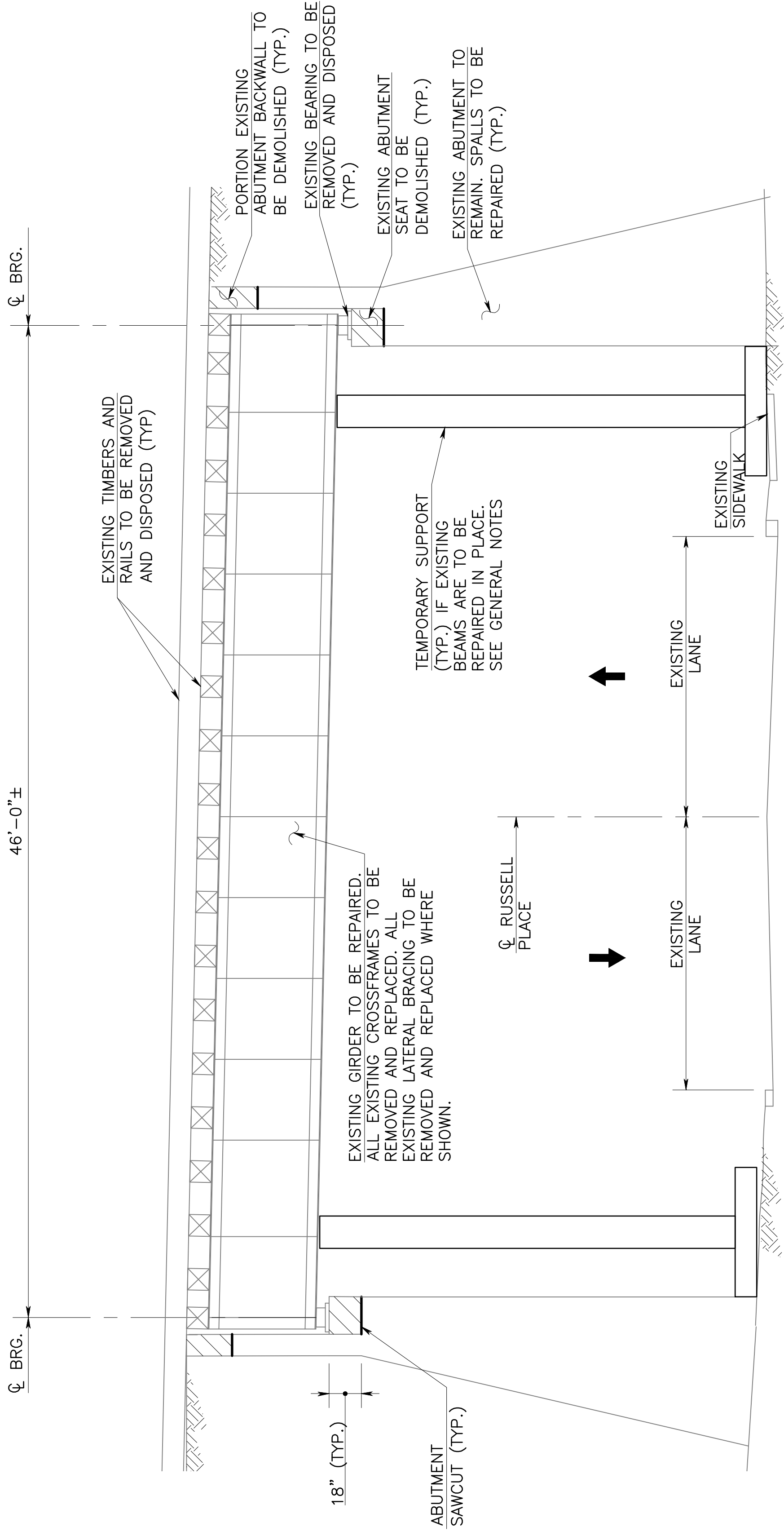
(LOOKING WEST)

CONTROL SECTION			
DES. BY	V.R.	CHK BY	
DWN. BY	D.M./V.R.		
IN CHARGE OF		M.H.M.	

CITY OF SUMMIT			
SUMMIT PARK LINE PATHWAY			
REHABILITATION OF ASHWOOD AVE BRIDGE AND RUSSELL PLACE BRIDGES			
RUSSELL PLACE ELEVATION AND SECTION			
EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. 24040807000		DATE: 3/1/2024	12
VICTORIA ROTBERG N.J. P.E. LICENSE #55833		SCALE: AS SHOWN	24
		SHEET NO: _____	OF _____
REVISION	BY	CKD.	DATE

NOTES:

1. TEMPORARY SUPPORTS ARE TO BE INSTALLED AFTER EXISTING TIMBERS AND RAILS ARE REMOVED.
2. BOTH ENDS OF THE GIRDERS CAN BE JACKED SIMULTANEOUSLY. HOWEVER, APPROPRIATE BRACING SHALL BE INCLUDED FOR BOTH LONGITUDINAL AND TRANSVERSE LOADS.
3. REACTION AT BEARING = 7 KIPS. THIS IS FOR STEEL DEAD LOAD ONLY. ADDITIONAL LOAD SHALL BE ADDED IF NECESSARY FOR CONTRACTORS OPERATIONS.
4. THE DESIGN OF THE JACKING AND TEMPORARY SUPPORTS SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF NEW JERSEY AND SUBMITTED FOR APPROVAL.
5. THE CONTRACTOR SHALL SUBMIT A DETAILED DEMOLITION PLAN FOR APPROVAL PRIOR TO BEGINNING WORK.

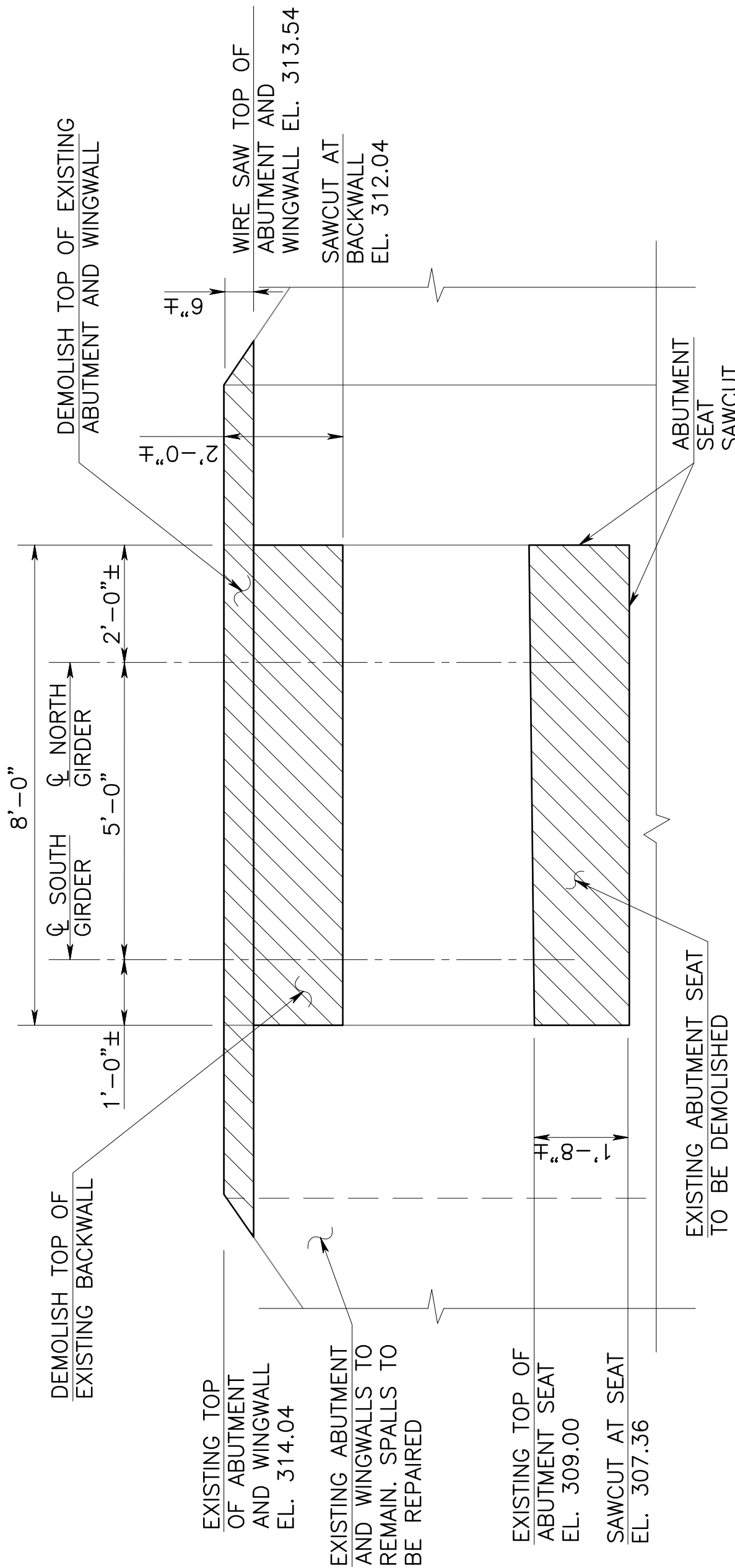


RUSSELL PLACE DEMOLITION ELEVATION

SCALE: 1/4" = 1'-0"
(LOOKING NORTH)

TYPICAL DEMOLITION SECTION

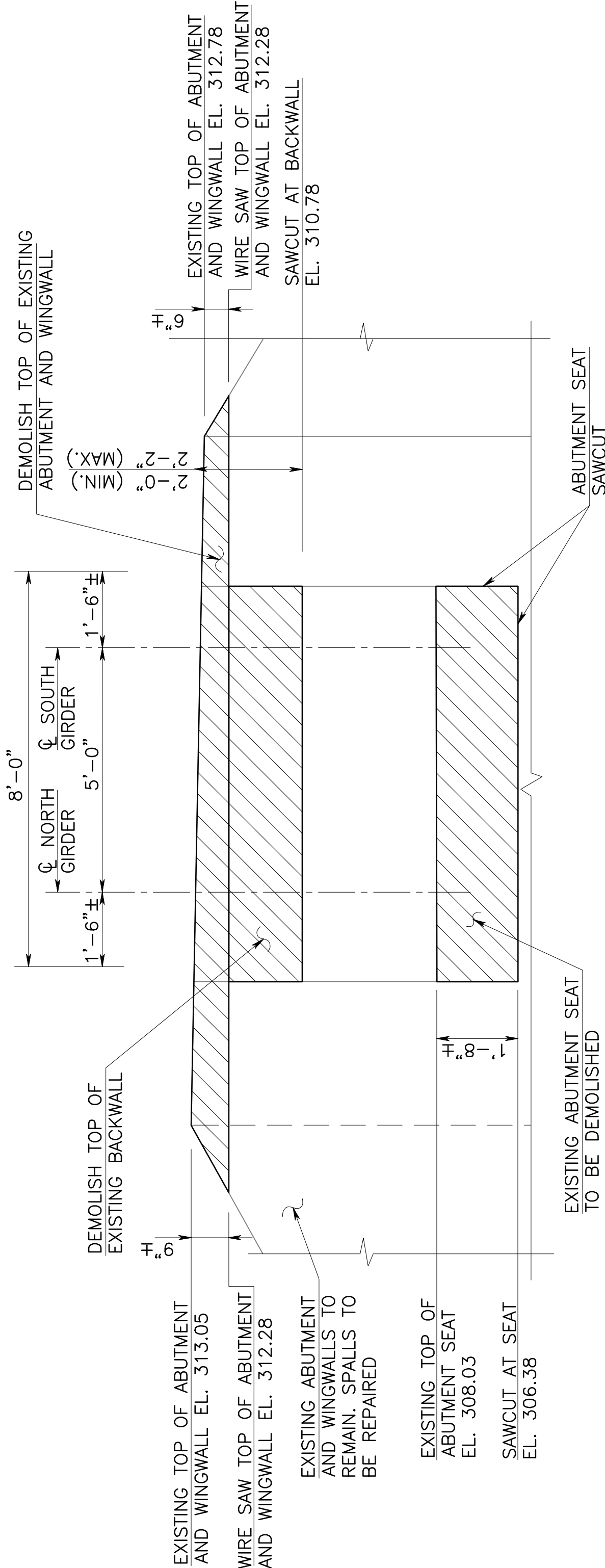
SCALE: 1/2" = 1'-0"



DEMOLITION SECTION AT WEST ABUTMENT

SCALE: 1/2"=1'-0"

(GIRDERS NOT SHOWN FOR CLARITY)



DEMOLITION SECTION AT EAST ABUTMENT

SCALE: 1/2"=1'-0"

(GIRDERS NOT SHOWN FOR CLARITY)

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES

RUSSELL PLACE DEMOLITION DETAILS

REVISION	BY	CKD.	DATE		

BIC GROUP LLC
CERTIFICATE OF AUTHORIZATION
NO. J040689700

DATE: 3/1/2024

SCALE: AS SHOWN

VICTORIA ROTBERG

N.J.P.E. LICENSE #55833

SHEET NO: OF

13

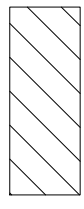
24

CONTROL SECTION			
DES. BY	V.R.	CHK BY	MHM
DWN. BY	D.M./V.R.		
IN CHARGE OF		M.H.M.	

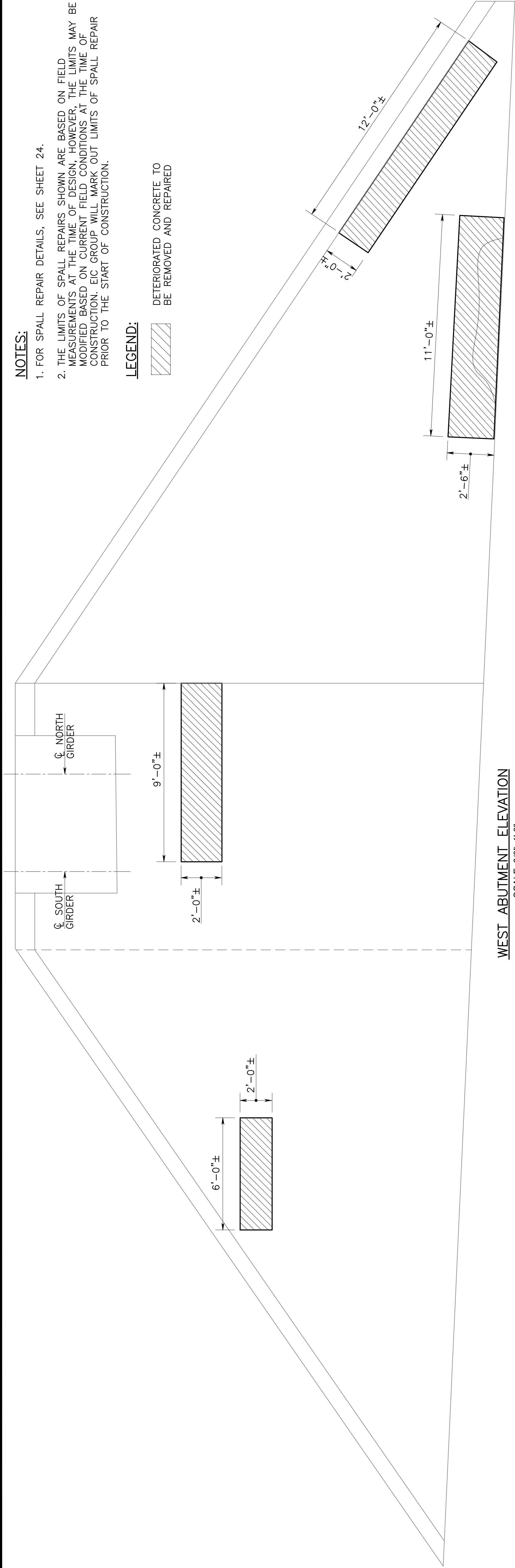
NOTES:

1. FOR SPALL REPAIR DETAILS, SEE SHEET 24.
2. THE LIMITS OF SPALL REPAIRS SHOWN ARE BASED ON FIELD MEASUREMENTS AT THE TIME OF DESIGN, HOWEVER, THE LIMITS MAY BE MODIFIED BASED ON CURRENT FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. EIC GROUP WILL MARK OUT LIMITS OF SPALL REPAIR PRIOR TO THE START OF CONSTRUCTION.

LEGEND:

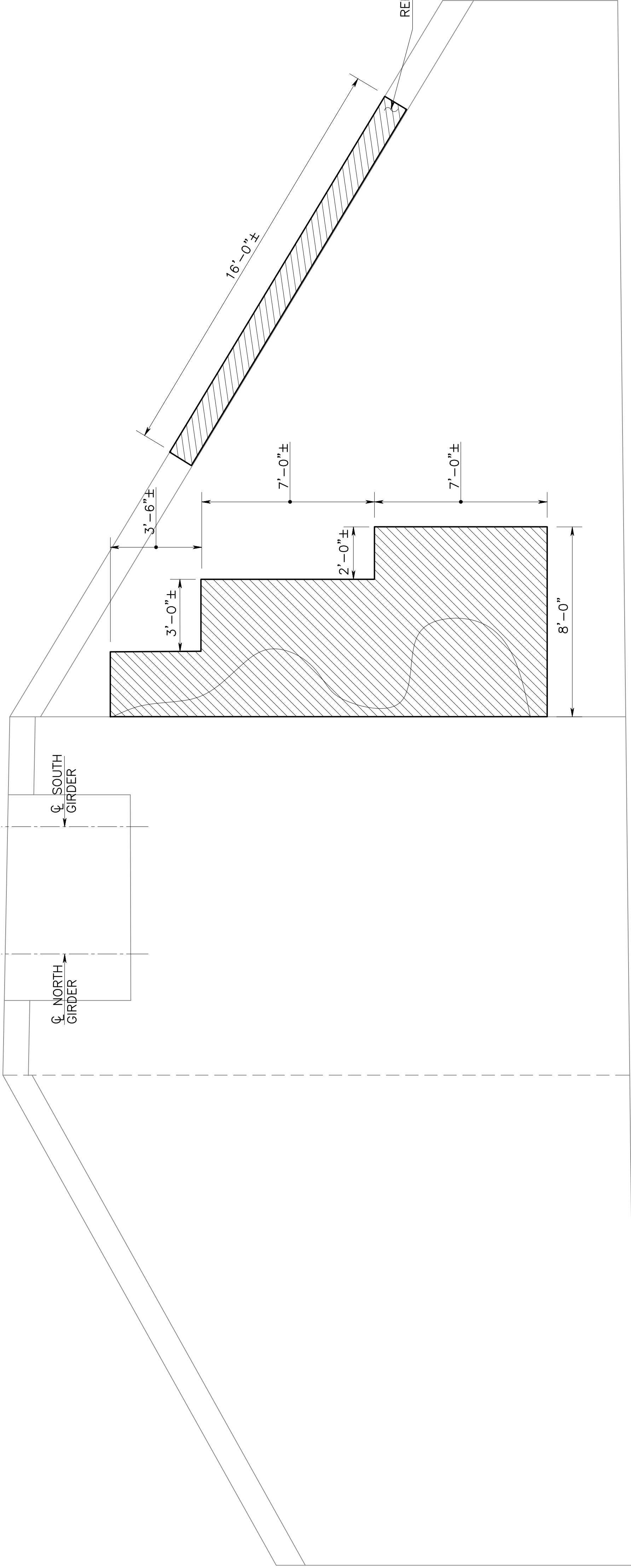


DETERIORATED CONCRETE TO
BE REMOVED AND REPAIRED



WEST ABUTMENT ELEVATION

SCALE: 3/8"=1'-0"



EAST ABUTMENT ELEVATION

SCALE: 3/8"=1'-0"

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES

RUSSELL PLACE
ABUTMENT SPALL REPAIRS

EIC GROUP LLC
CERTIFICATE OF AUTHORIZATION
NO. 24040807000

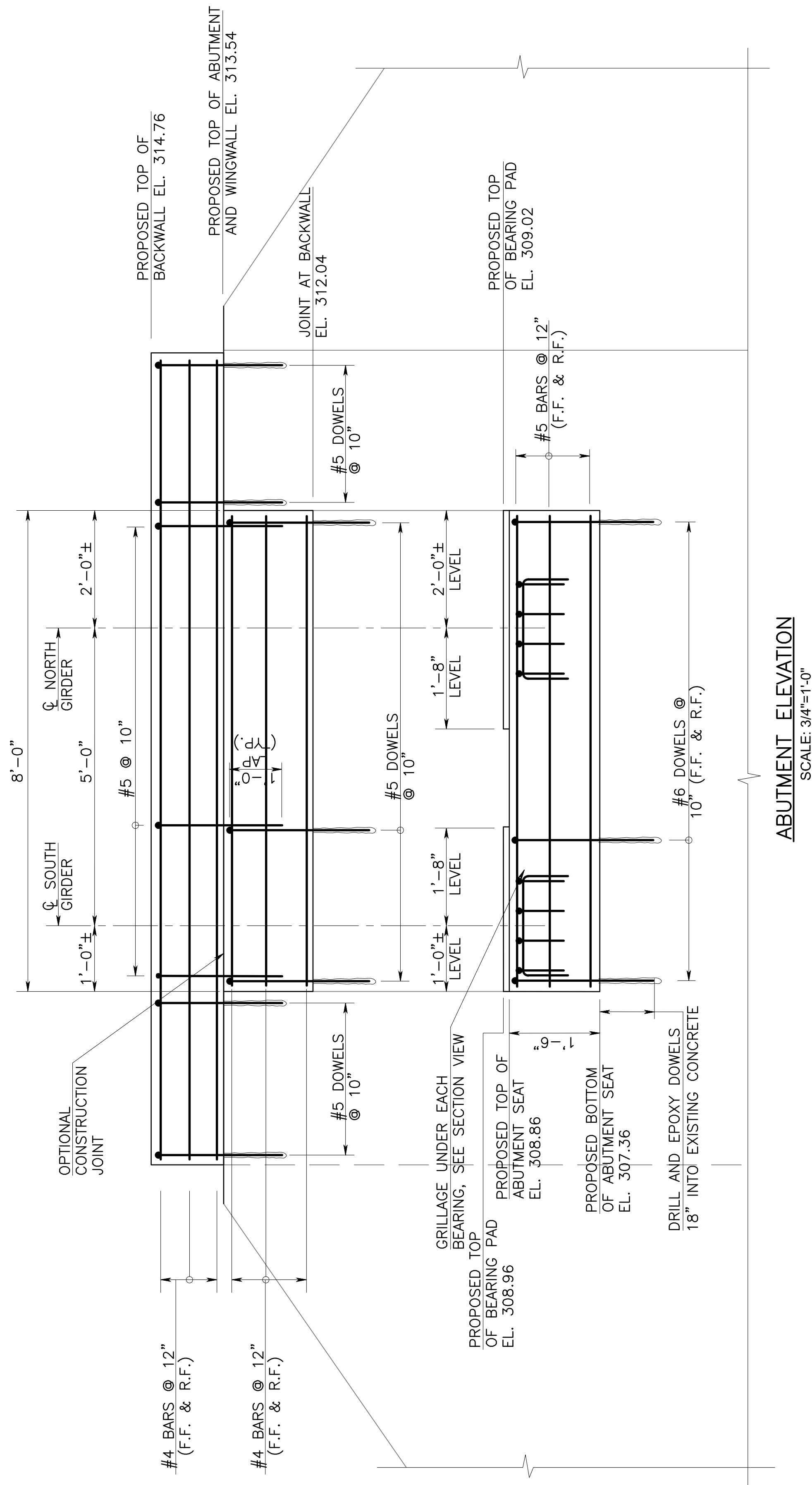
DATE: 3/1/2024

SCALE: AS SHOWN

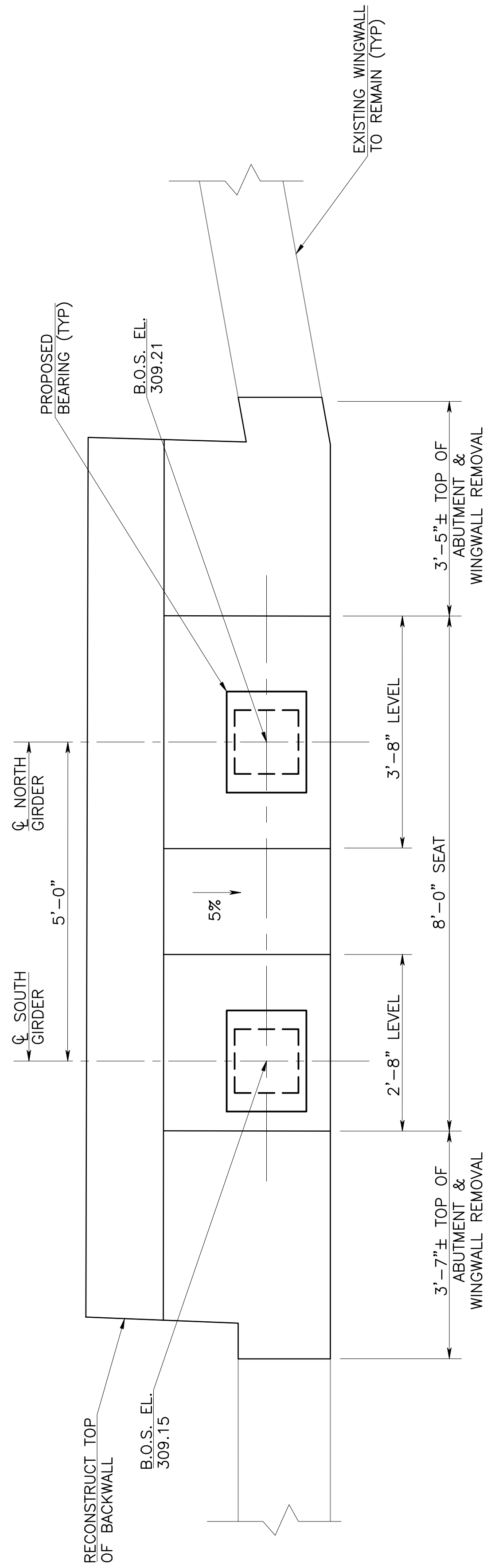
SHEET NO: 14 OF 24

REVISION	BY	CKD.	DATE

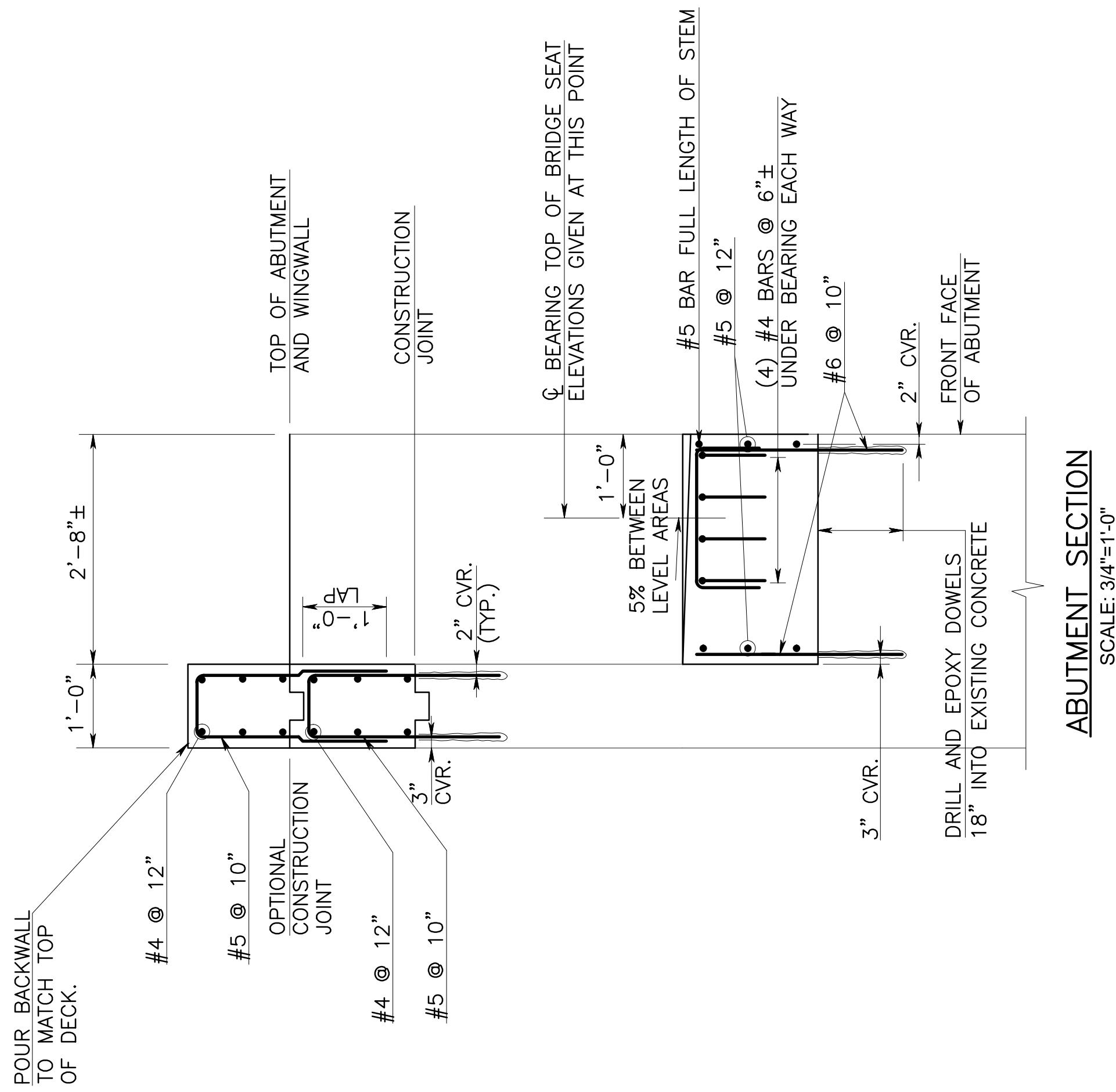
DES. BY	V.R.	CHK BY	MHM
DWN. BY	D.M./V.R.		
IN CHARGE OF		M.H.M.	



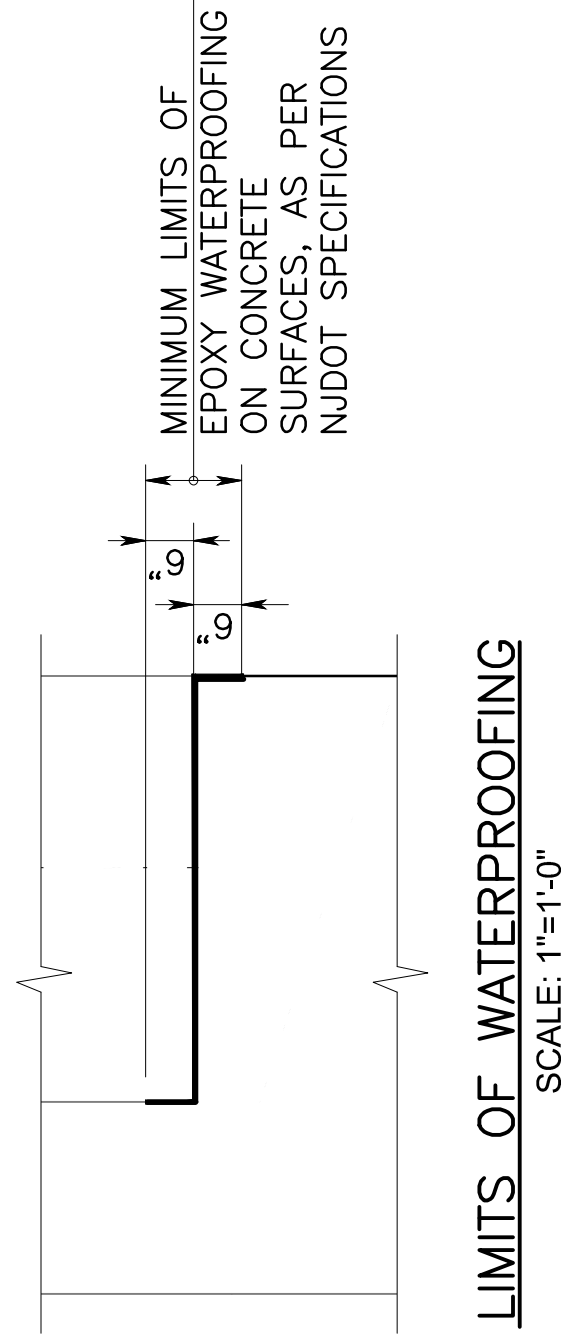
ABUTMENT ELEVATION
SCALE: 3/4"=1'-0"



ABUTMENT SEAT PLAN
SCALE: 3/4"=1'-0"



ABUTMENT SECTION
SCALE: 3/4"=1'-0"



LIMITS OF WATERPROOFING
SCALE: 1"=1'-0"

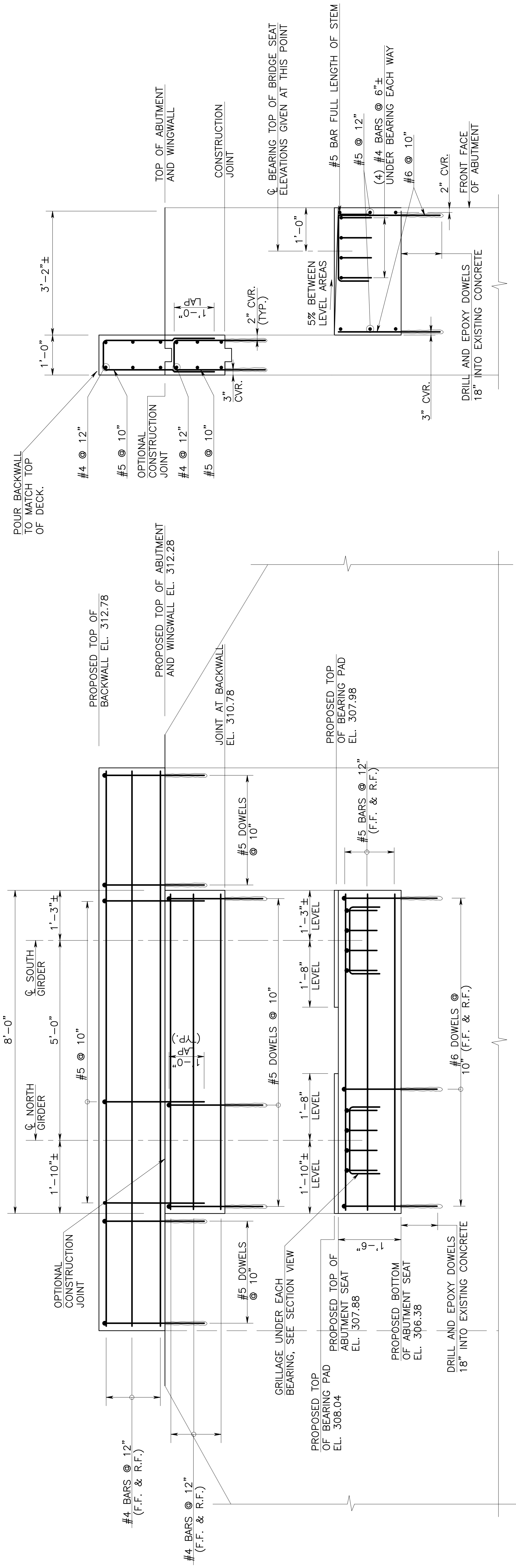
REVISION	BY	CK'D.	DATE		

DATE: 3/11/2024

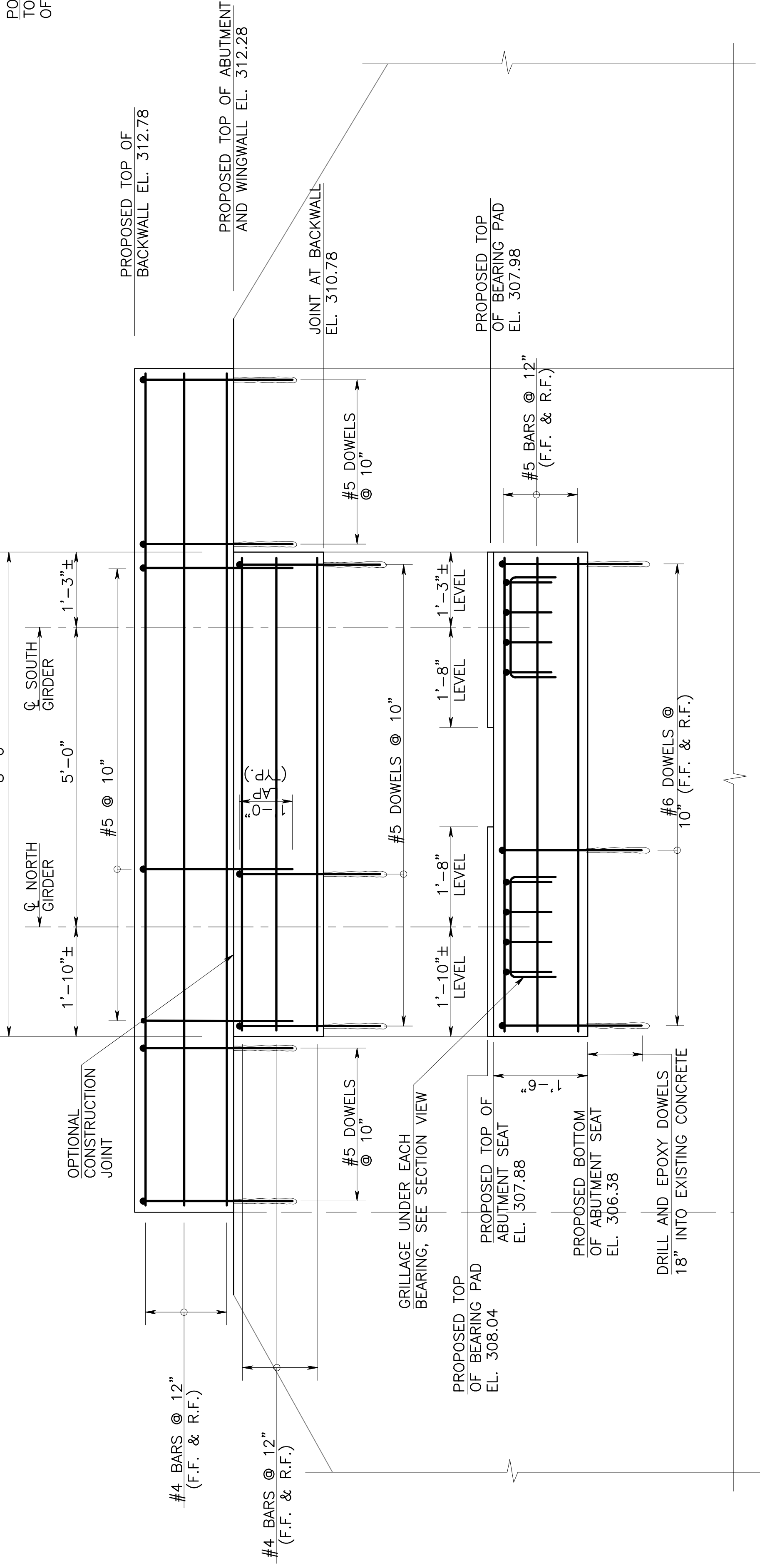
SCALE: AS SHOWN

SHEET NO: 15 OF 24

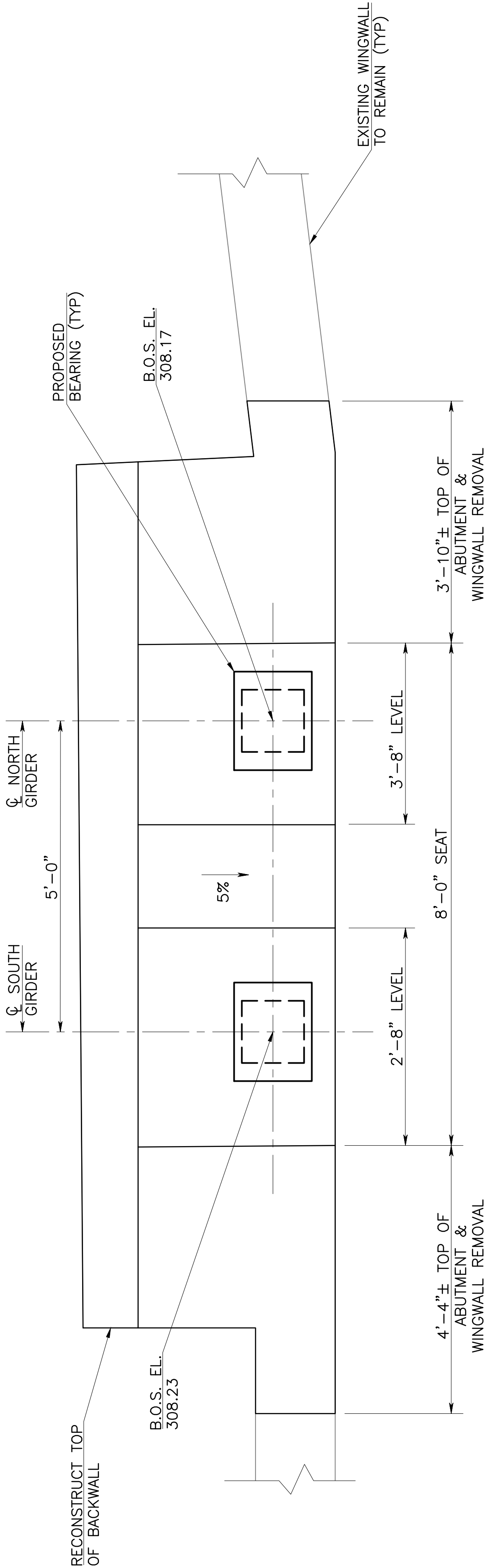
CONTROL SECTION				CHK. BY	MHM
DES. BY	V.R.		D.M./V.R.		
DWNL BY					
IN CHARGE OF					M.H.M.



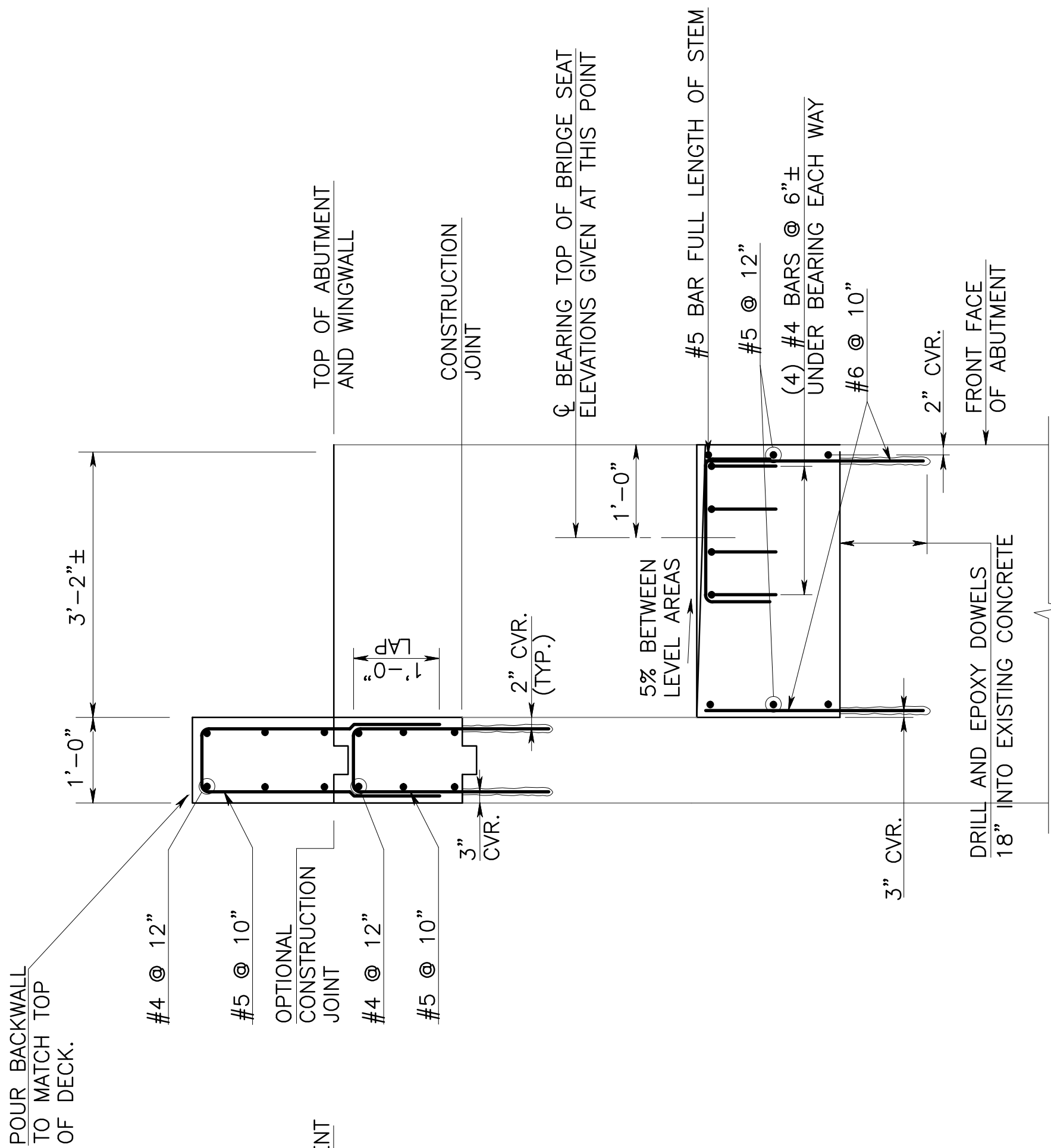
ABUTMENT ELEVATION
SCALE: 3/4"=1'-0"



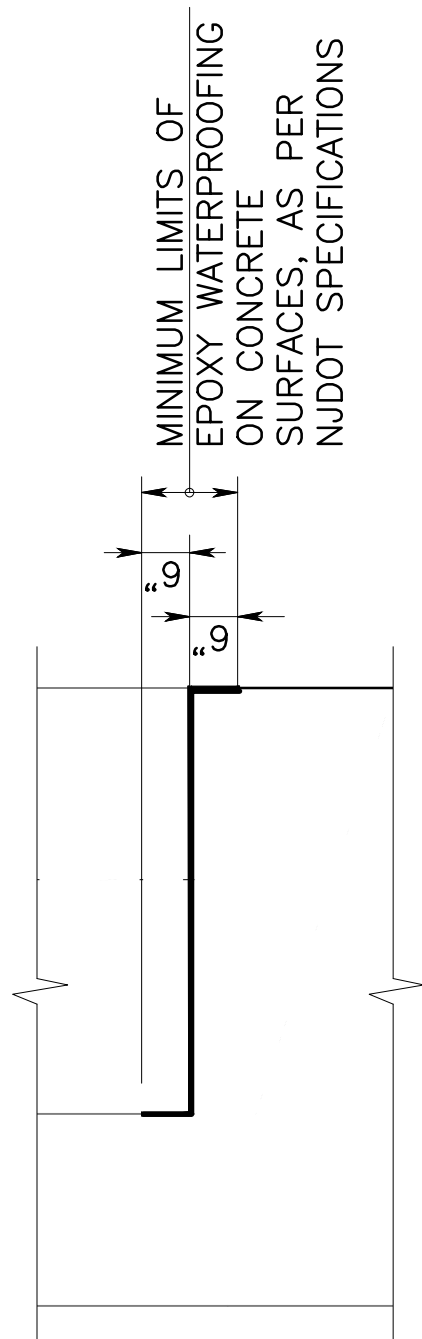
ABUTMENT SEAT PLAN
SCALE: 3/4"=1'-0"



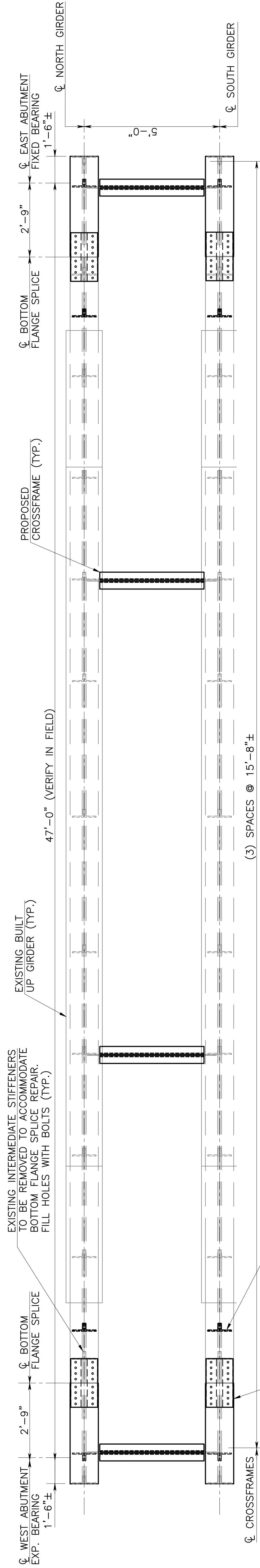
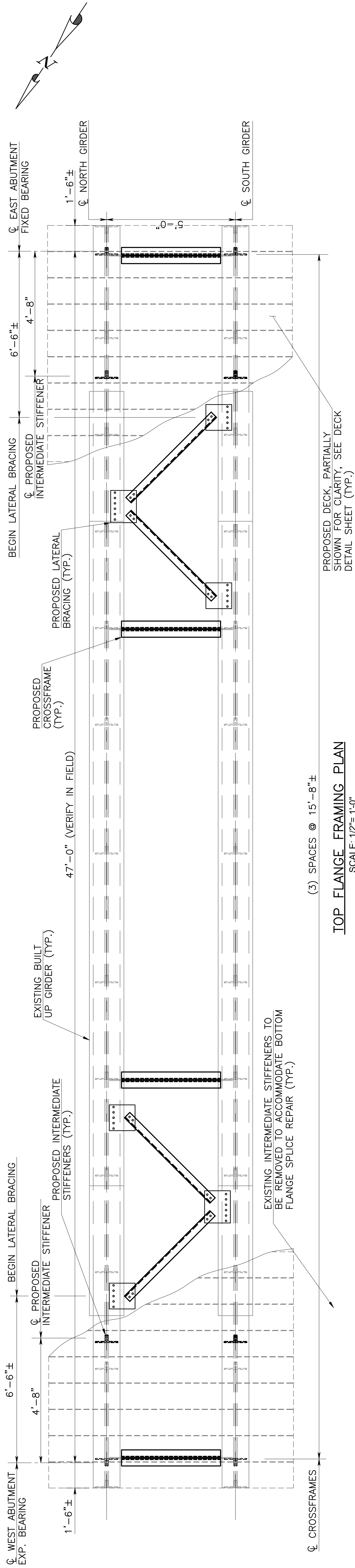
LIMITS OF WATERPROOFING
SCALE: 1"=1'-0"



ABUTMENT SECTION
SCALE: 3/4"=1'-0"



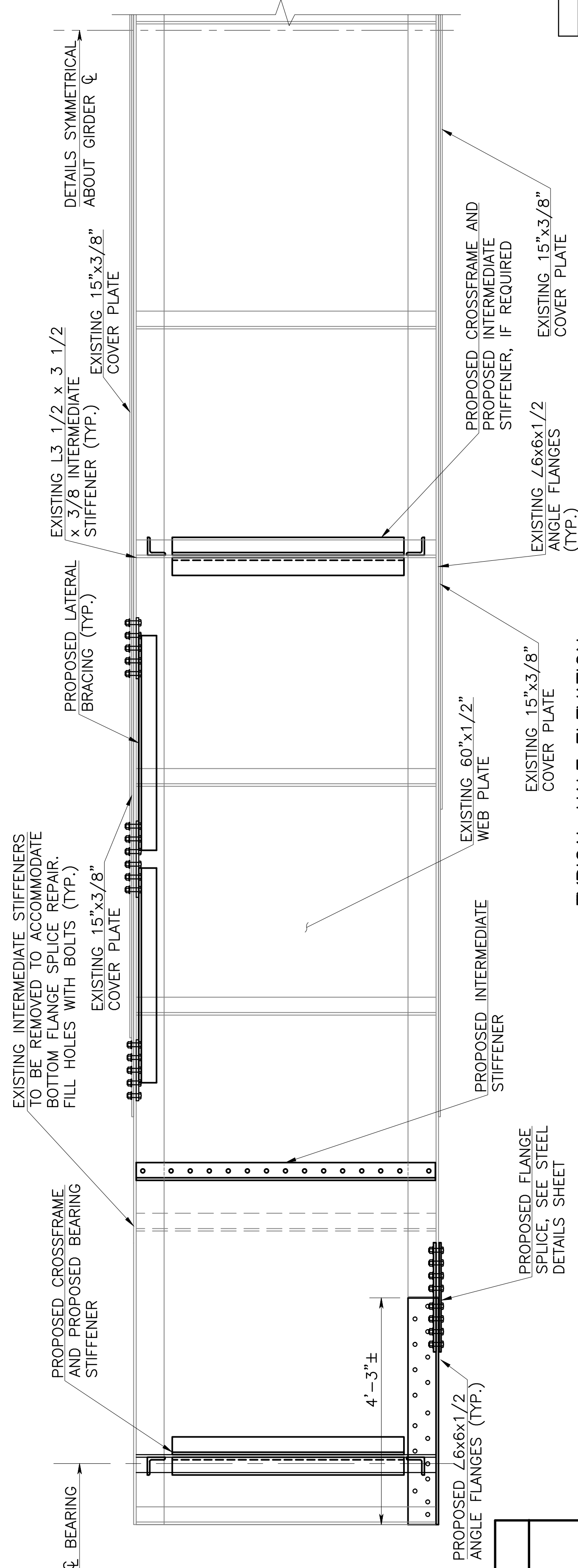
CITY OF SUMMIT				EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. JAG46897940		DATE: 3/1/2024	16
SUMMIT PARK LINE PATHWAY				VICTORIA ROTBERG N.J. P.E. LICENSE #55833		SCALE: AS SHOWN	24
REHABILITATION OF ASHWOOD AVE BRIDGE AND RUSSELL PLACE BRIDGES							
RUSSELL PLACE EAST ABUTMENT RECONSTRUCTION							
DES. BY	V.R.	CHK. BY	M.H.M.	REVISION	BY	CKD.	DATE
DWN. BY	D.M.V.R.						
IN CHARGE OF M.H.M.							



BOTTOM FLANGE FRAMING PLAN

SCALE: 3/8"= 1'-0"

NOTE: LATERAL BRACING NOT REQUIRED ON BOTTOM FLANGE



TYPICAL HALF ELEVATION

SCALE: 3/4"= 1'-0"

NOTES:

1. FOR STEEL AND DECK DETAILS, SEE SHEETS 18-19.
2. FOR GENERAL NOTES, SEE SHEET 1.

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE AND RUSSELL PLACE BRIDGES

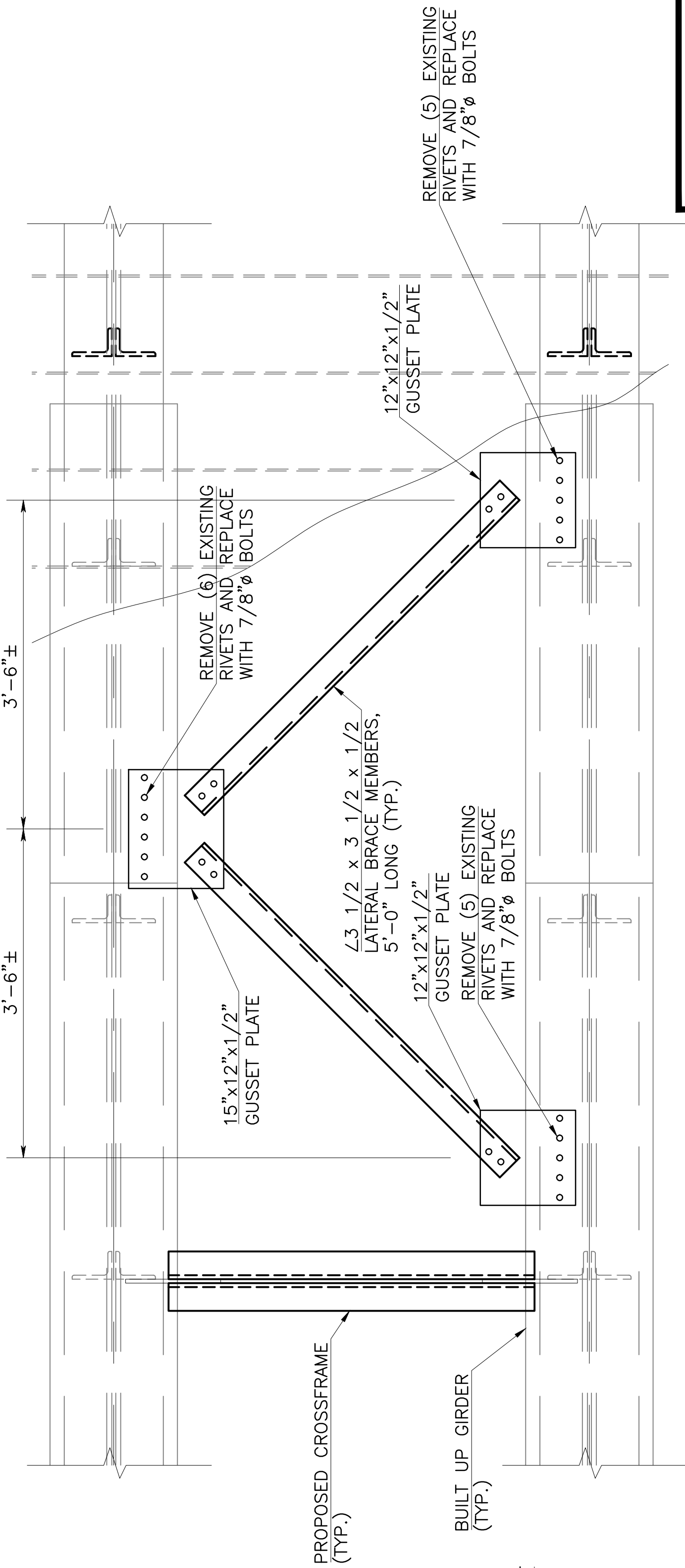
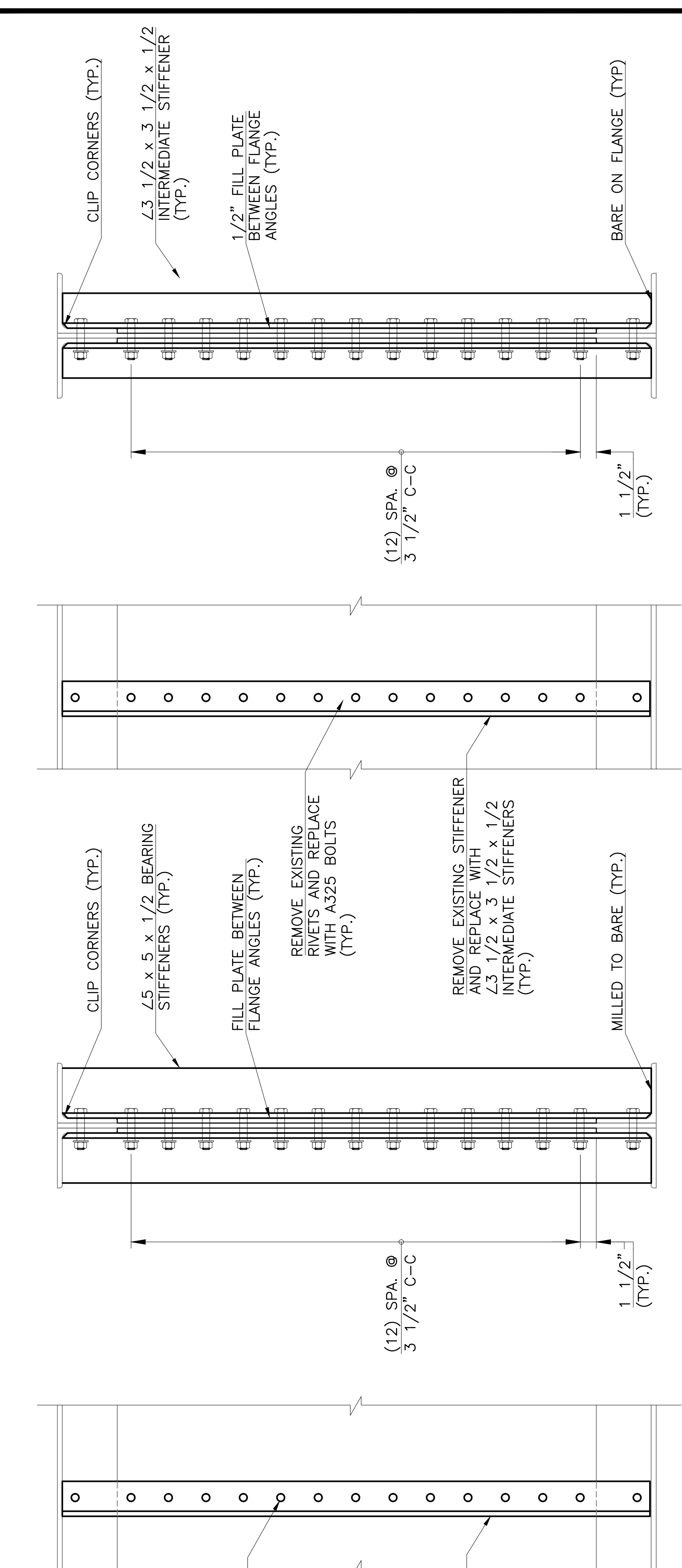
RUSSELL PLACE FRAMING AND DECK PLAN

REVISION	BY	CK'D.	DATE		

EIC GROUP LLC CERTIFICATION NO. 24502097900	DATE: <u>3/1/2024</u>	
	SCALE: <u>AS SHOWN</u>	
VICTORIA ROTBERG N.J. P.E. LICENSE #556833	SHEET NO: <u> </u> OF <u> </u>	

CONTROL SECTION				CHK BY	MHM
DES. BY	V.R.	D.M./V.R.			
DWN BY					

IN CHARGE OF _____ M.H.M.



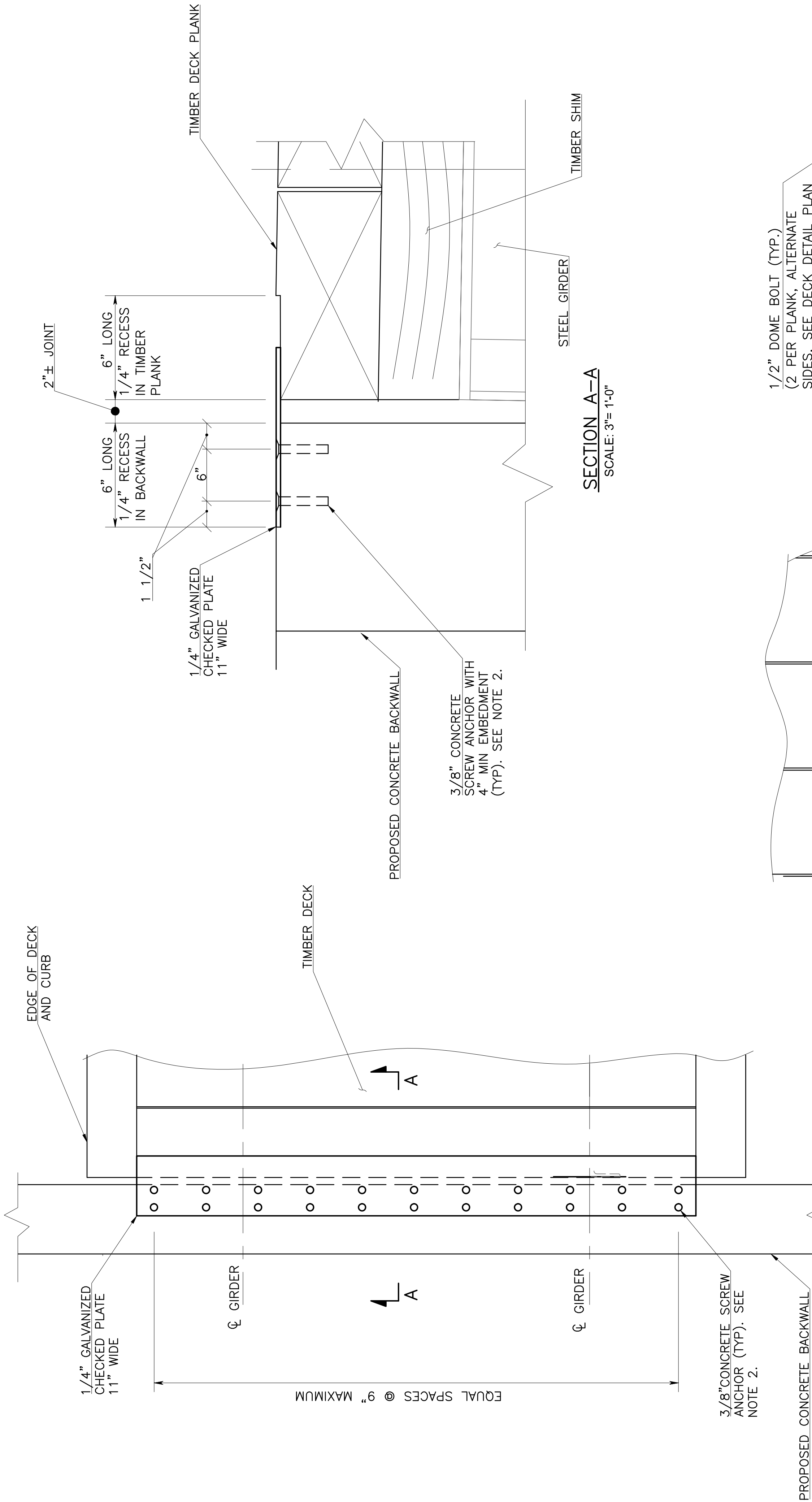
1. BASED ON FIELD MEASUREMENTS, EXISTING RIVETS APPEAR TO BE 7/8"Ø. WHERE RIVETS SHALL BE REPLACED, UTILIZE 7/8"Ø BOLTS. CONTRACTOR SHALL REMOVE EXISTING RIVETS TO VERIFY DIAMETER PRIOR TO ORDERING NEW BOLTS. IF RIVETS ARE 3/4"Ø, THEN 3/4"Ø BOLTS SHALL BE UTILIZED.

2. FOR GENERAL NOTES, SEE SHEET 1.

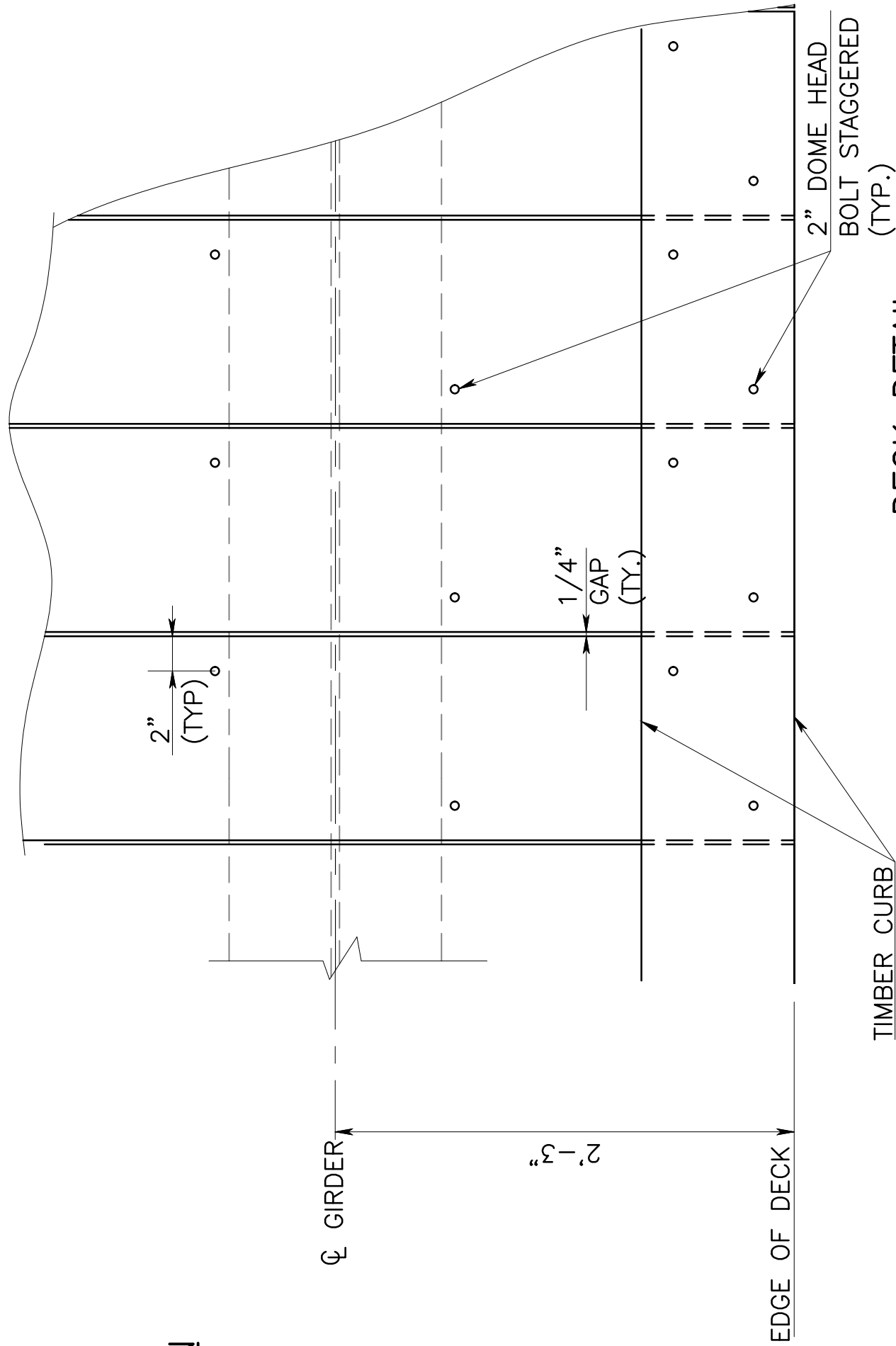
CONTROL SECTION					CHK. BY	MHM
DES. BY	V.R.			D.M./V.R.		
DWN. BY						
IN CHARGE OF					M.H.M.	

REVISION	BY	CK'D.	DATE		

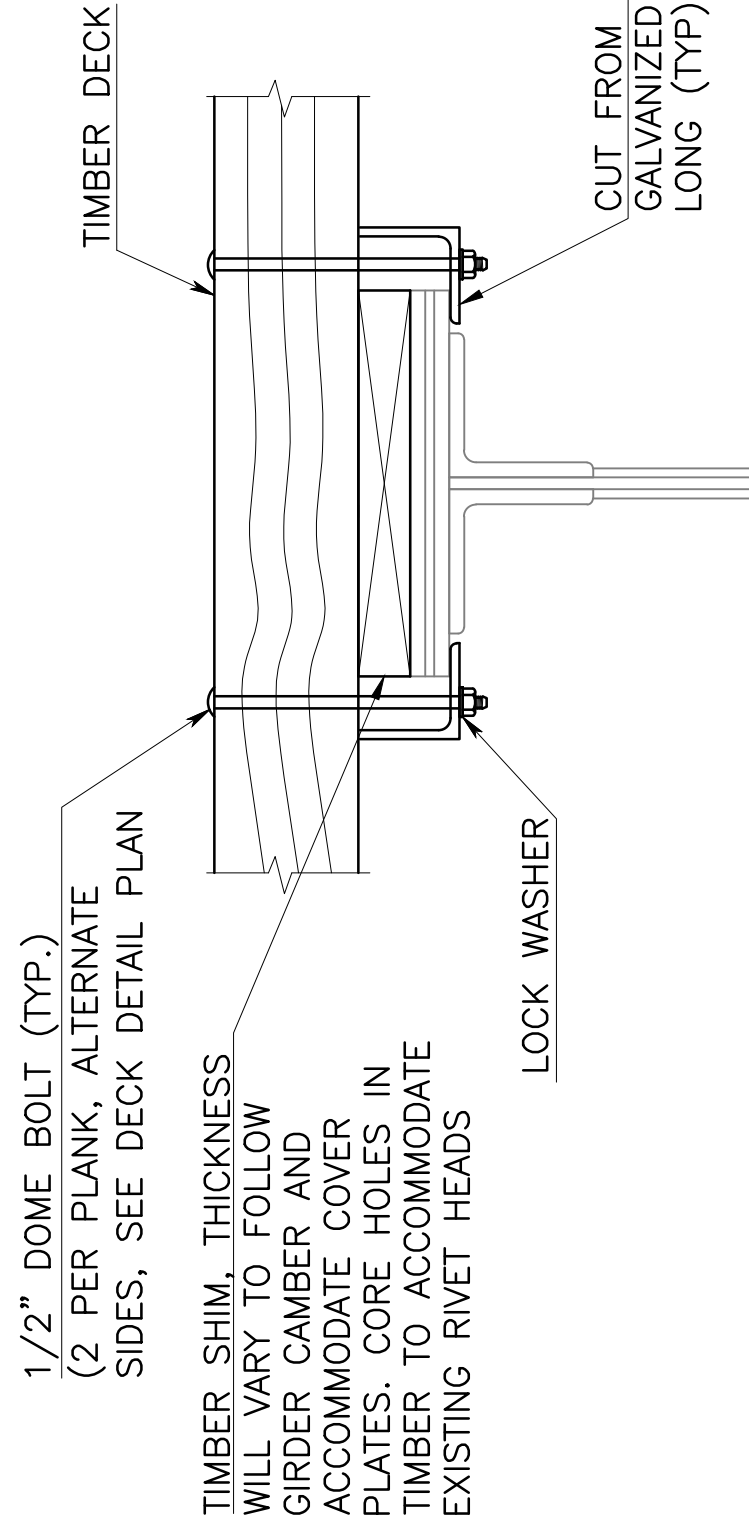
EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. 240A28097000	DATE: 3/1/2024 SCALE: AS SHOWN SHEET NO: 18 OF 24
VICTORIA ROTBERG N.J. P.E. LICENSE #55833	



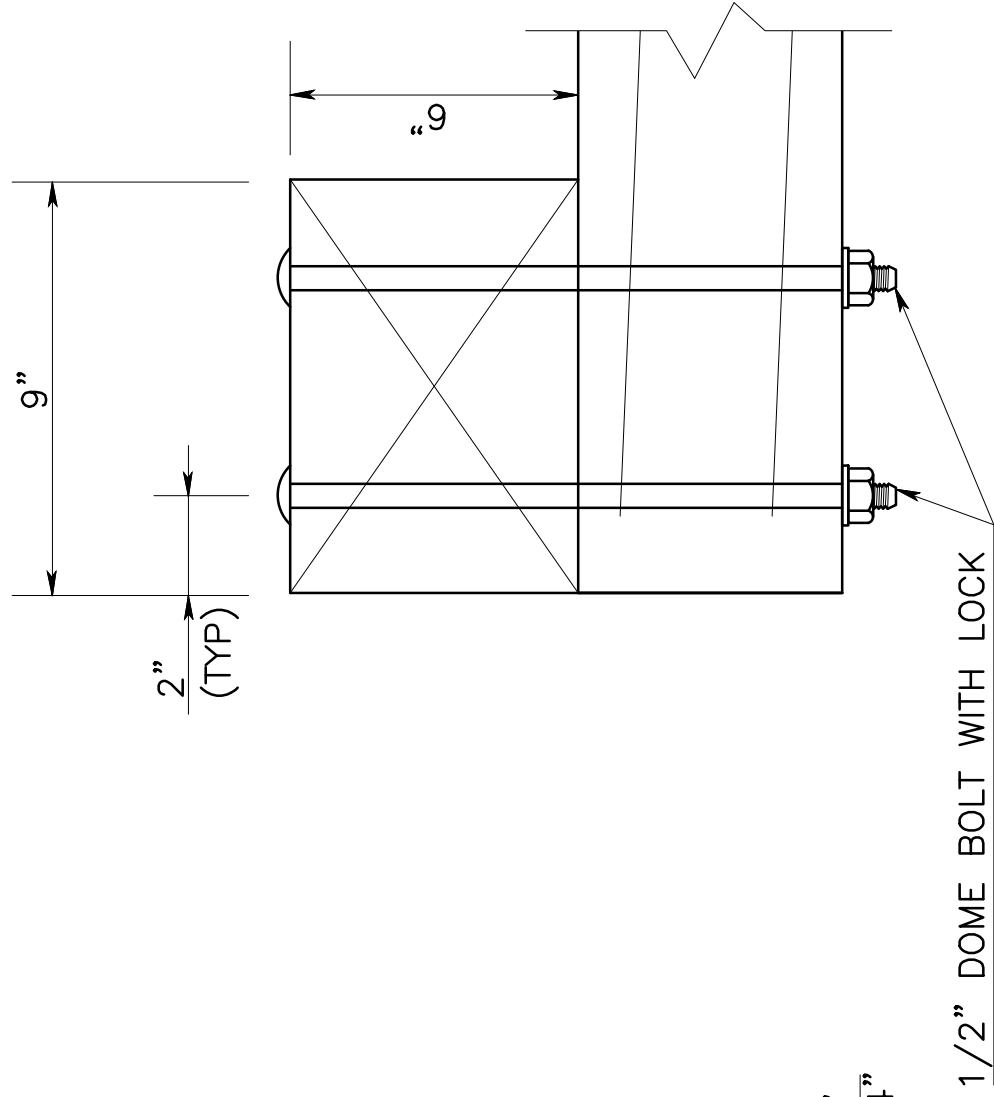
DECK JOINT PLAN
SCALE: 1"= 1'-0"



DECK DETAIL
SCALE: 1 1/2"=1'-0"



CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"



CURB DETAIL
SCALE: 3"=1'-0"

NOTES:

1. STEEL CHECKED PLATE SHALL BE GALVANIZED AS PER ASTM A153.
2. CONCRETE ANCHORS SHALL HILO KH-EZ C COUNTERSUNK ANCHOR ZINC PLATED OR APPROVED EQUAL. ALL MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED REGARDING INSTALLATION.
3. FOR GENERAL NOTES, SEE SHEET 1.

CONTROL SECTION			
DES. BY	V.R.	CHK. BY	MHM
DWN. BY	D.M./V.R.		
IN CHARGE OF		M.H.M.	

REVISION	BY	CKD.	DATE		

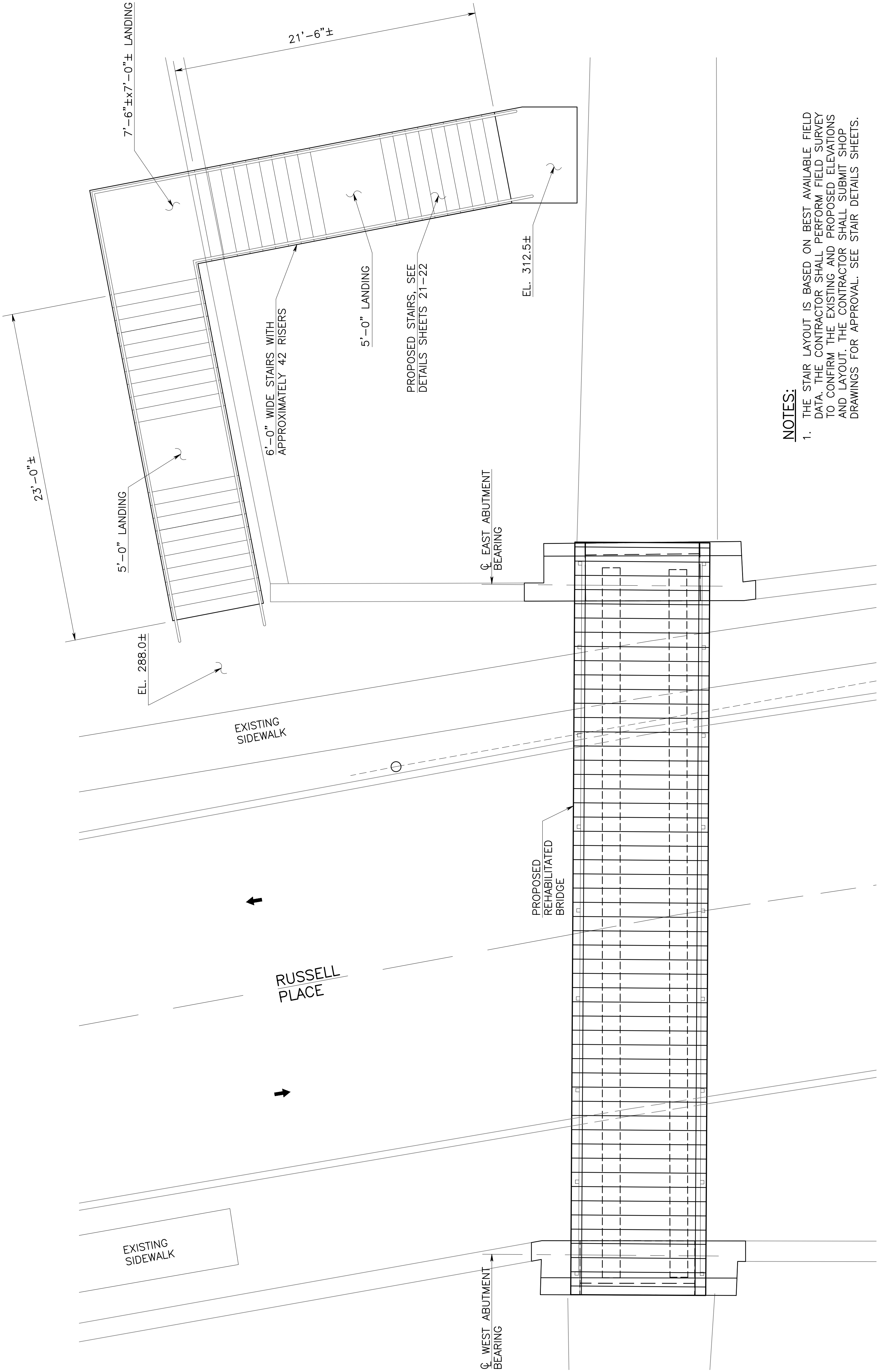
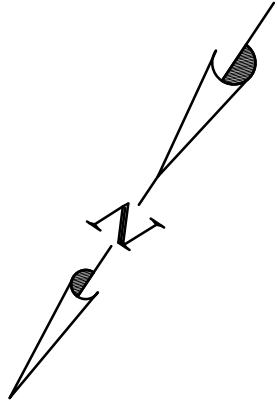
EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. 0406090700	DATE: 3/1/2024
VICTORIA ROTBERG N.J.P.E. LICENSE #55833	SCALE: AS SHOWN
	SHEET NO: OF

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES

RUSSELL PLACE
DECK DETAILS



NOTES:

1. THE STAIR LAYOUT IS BASED ON BEST AVAILABLE FIELD DATA. THE CONTRACTOR SHALL PERFORM FIELD SURVEY TO CONFIRM THE EXISTING AND PROPOSED ELEVATIONS AND LAYOUT. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL. SEE STAIR DETAILS SHEETS.

RUSSELL PLACE PLAN
SCALE: 1/4" = 1'-0"

CONTROL SECTION			
DES. BY	V.R.	CHK. BY	M.H.M.
DWN. BY	D.M.V.R.		
IN CHARGE OF		M.H.M.	

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES

RUSSELL PLACE
STAIR PLAN

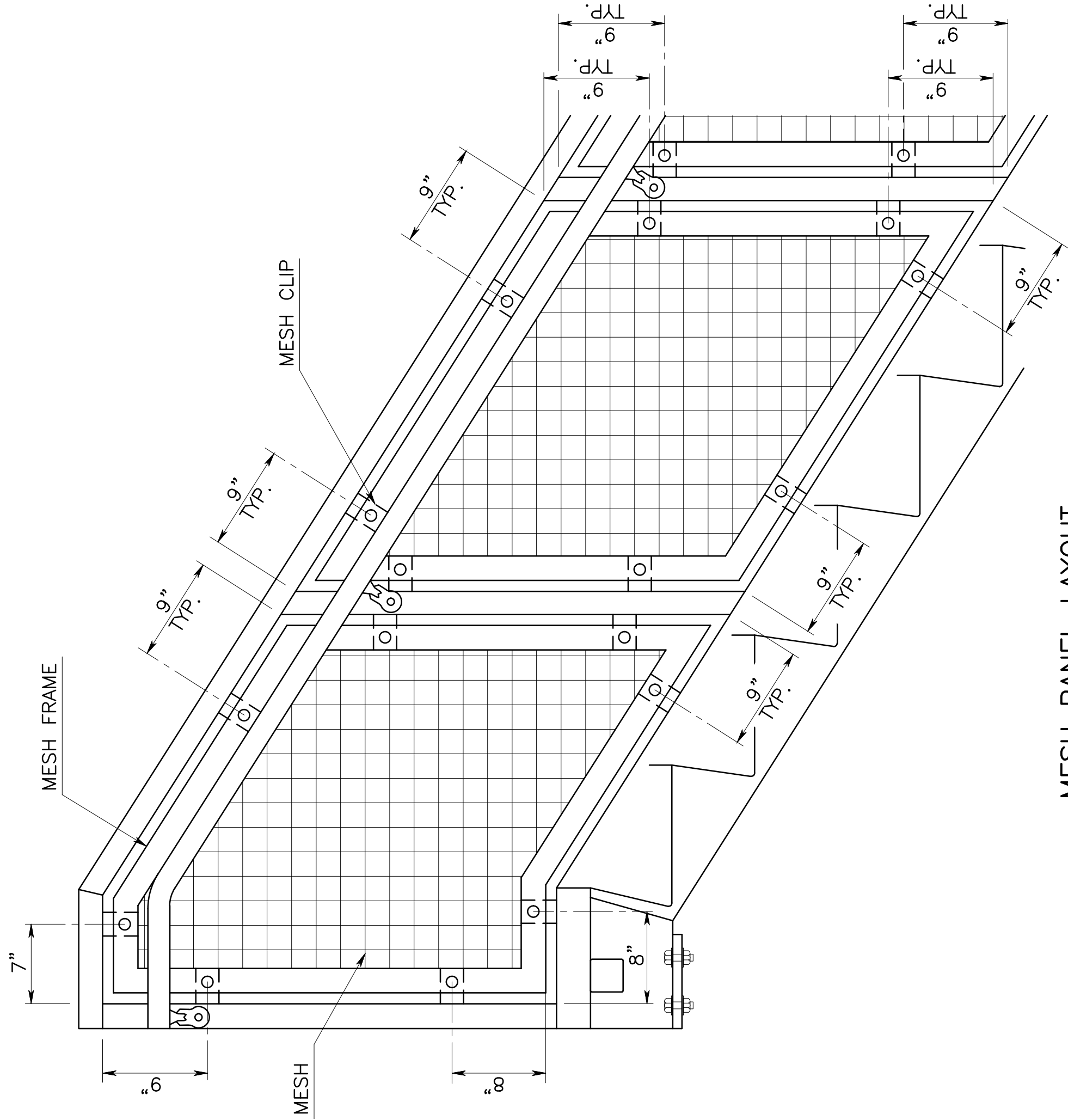
EIC GROUP LLC
CERTIFICATE OF AUTHORIZATION
NO. J040609700

DATE: 3/1/2024

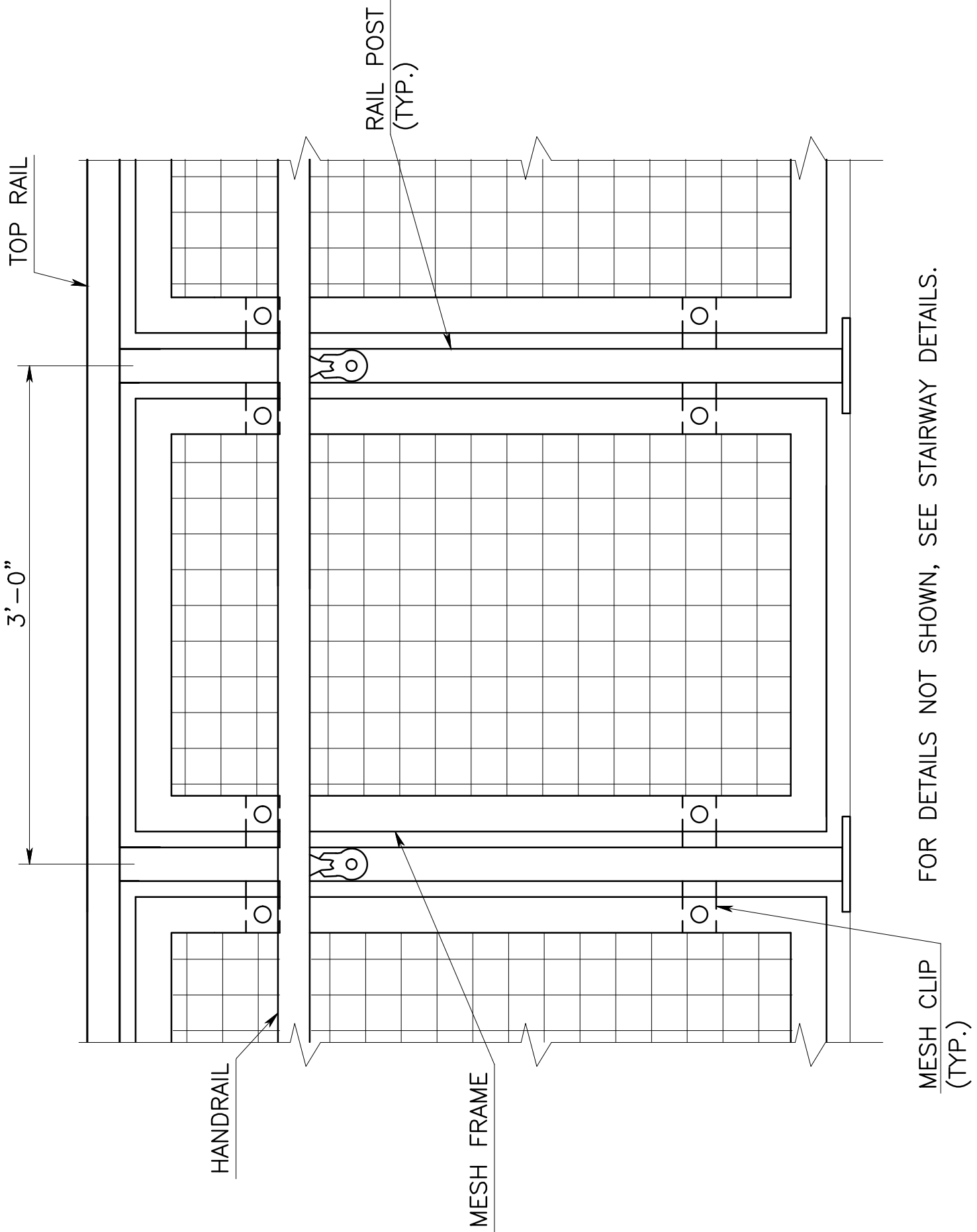
SCALE: AS SHOWN

SHEET NO: 20 OF 24

REVISION	BY	CKD.	DATE

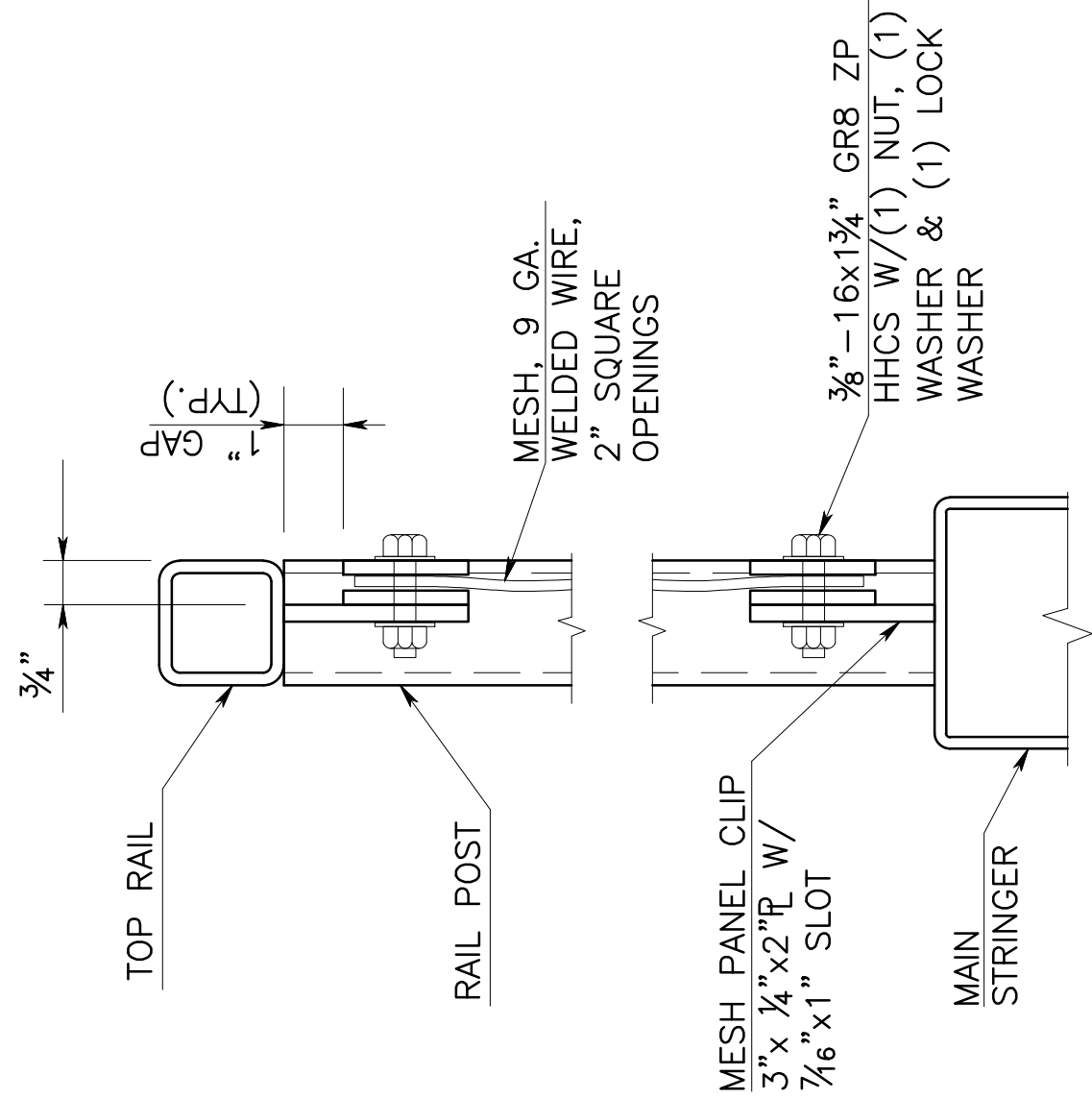
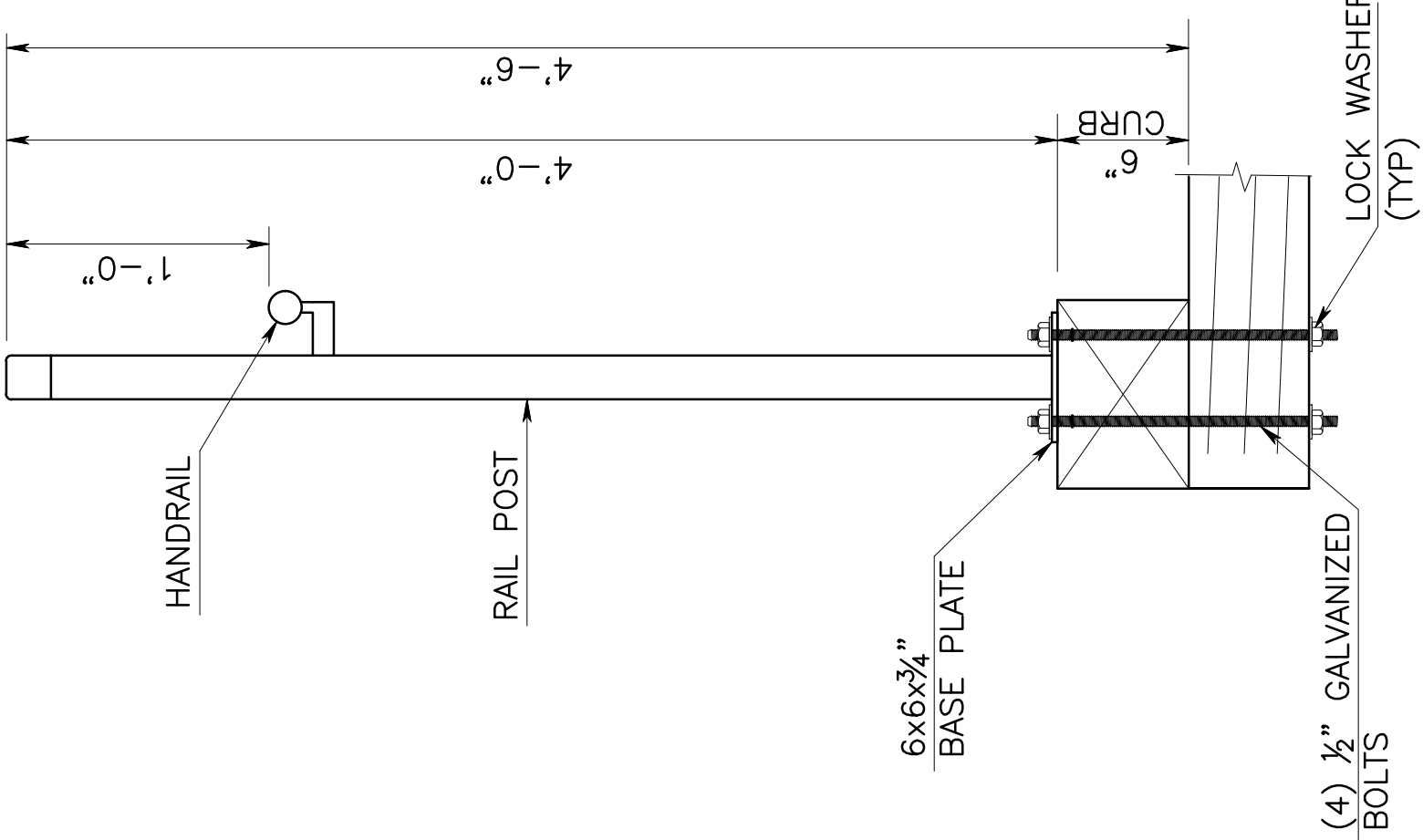


MESH PANEL LAYOUT
NOT TO SCALE

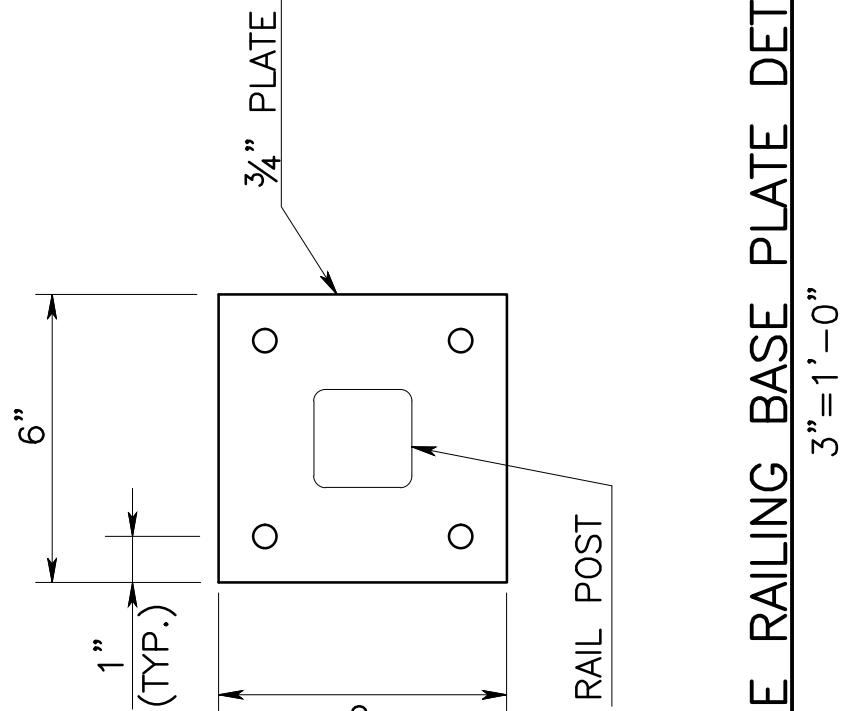


FOR DETAILS NOT SHOWN, SEE STAIRWAY DETAILS.
TYPICAL BRIDGE RAILING PANEL DETAIL
NOT TO SCALE

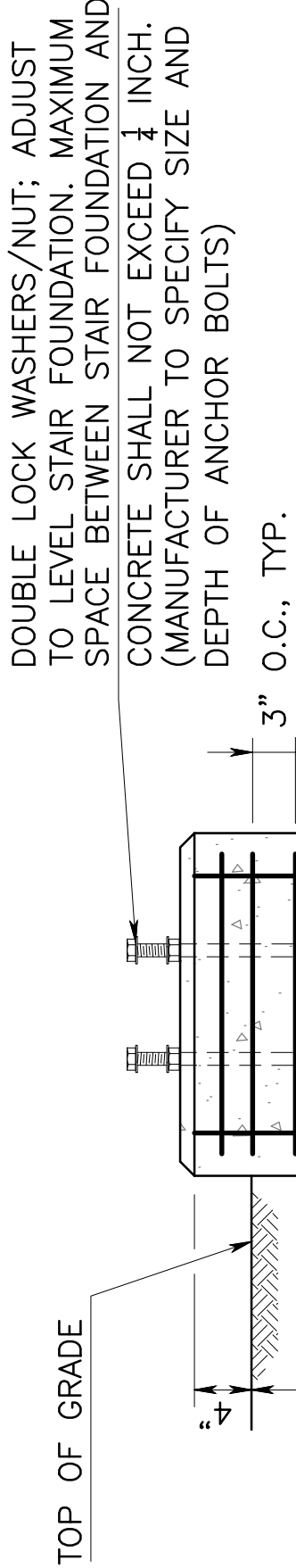
TYPICAL BRIDGE RAILING SECTION
NOT TO SCALE



TYPICAL MESH PANEL ATTACHMENT DETAIL
NOT TO SCALE



BRIDGE RAILING BASE PLATE DETAIL
3" x 1'-0"

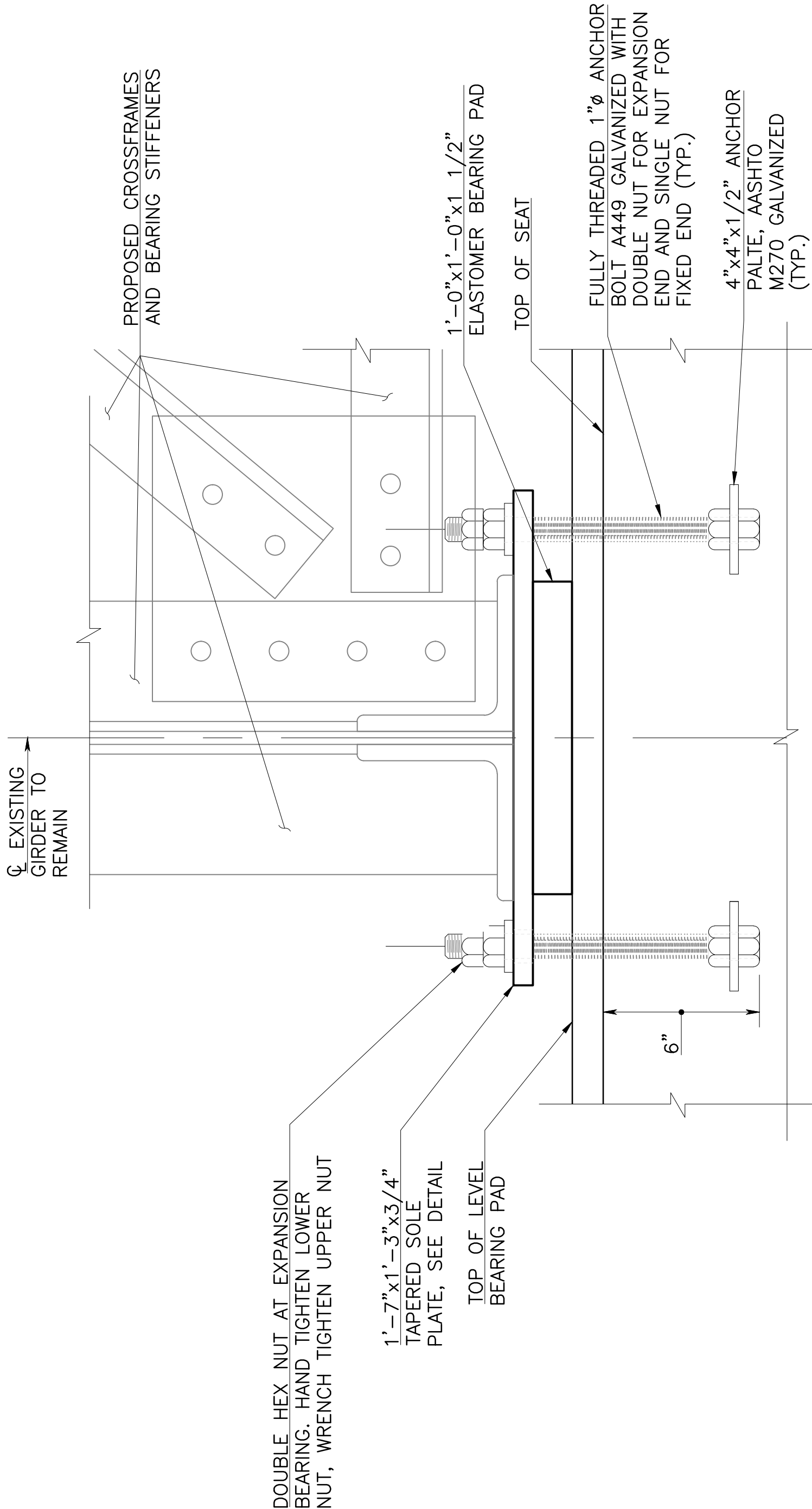


STAIR FOUNDATION
NOT TO SCALE

CITY OF SUMMIT			
SUMMIT PARK LINE PATHWAY			
REHABILITATION OF ASHWOOD AVE BRIDGE AND RUSSELL PLACE BRIDGES			
RUSSELL PLACE			
BRIDGE RAILING AND STAIR DETAILS 2			
EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. 0406090000		DATE: 3/1/2024	22
VICTORIA ROTBERG N.J.P.E. LICENSE #55833		SCALE: AS SHOWN	24
REVISION	BY	CKD.	DATE

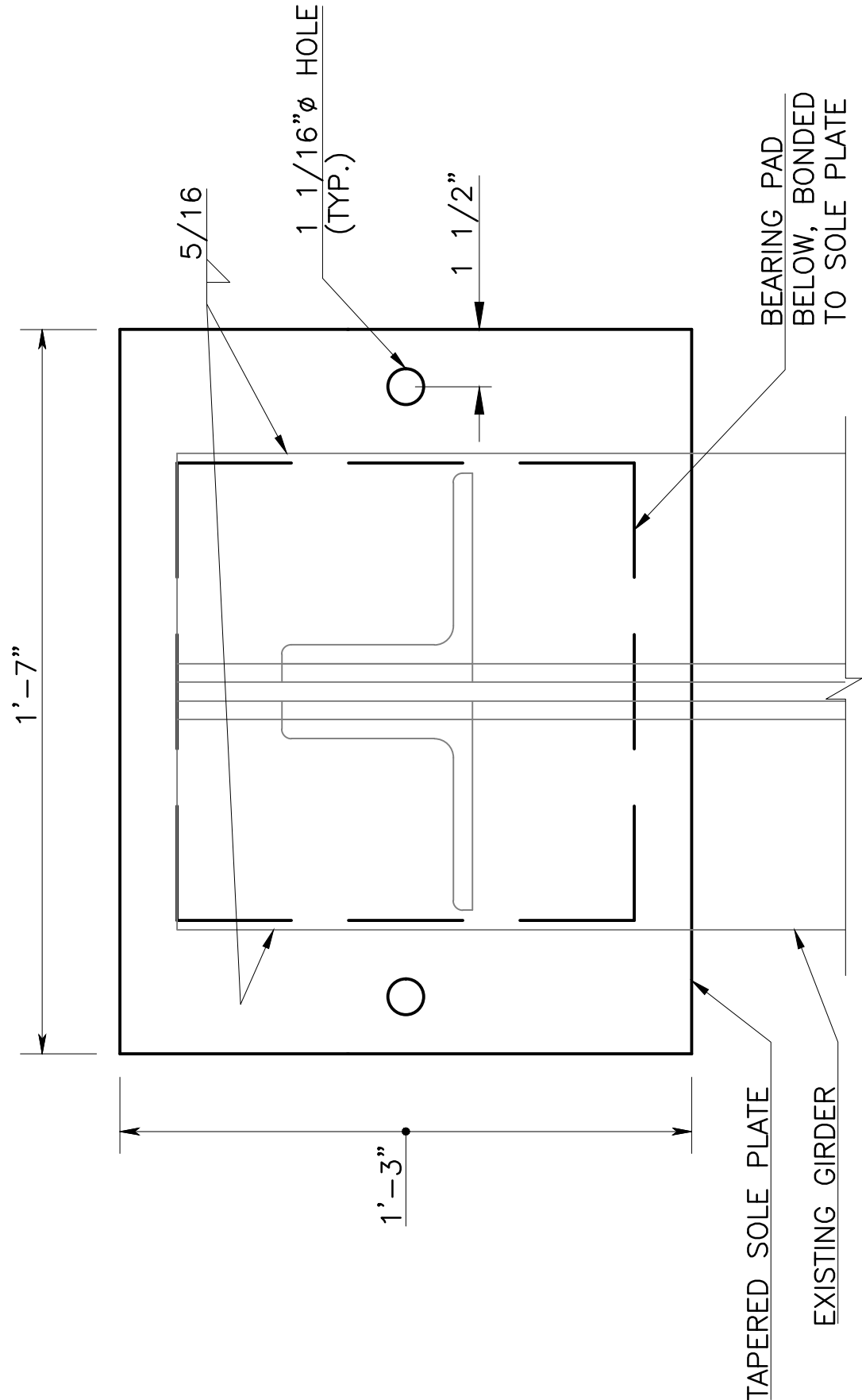
BEARING NOTES:

- THE TOP OF THE PEDESTAL SHALL BE LEVEL.
- MAXIMUM SERVICE DESIGN REACTIONS AT THE BEARINGS:
 - DEAD LOAD: 19 KIPS.
 - LIVE LOAD: 12 KIPS.
- ANCHOR BOLT SHALL BE THREADED AS SHOWN THE ANCHOR BOLT TIP SHALL BE REMOVED 1/2" ABOVE THE TOP OF THE NUT. ANCHOR BOLTS, PLATES, WASHER PLATES AND NUTS SHALL CONFORM TO THE REQUIREMENTS OF NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ALL ANCHOR BOLTS SHALL BE CAST-IN-PLACE.
- ELASTOMER FOR BEARING PADS SHALL BE GRADE 3, 60 DUROMETER HARDNESS, WITH A SHEAR MODULUS OF G=160 PSI
- ELASTOMERIC BEARINGS SHALL NOT BE PLACED IN TENSION DURING HANDLING OR ERECTION.
- SOLE PLATES AND WASHER PLATES ARE TO BE AASHTO M270, GRADE 50. ALL PLATES SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH NUDOT SPECIFICATIONS.
- THREADED ANCHOR BOLTS (ASTM A449) , NUTS (ASTM A563) AND WASHERS (ASTM F436) SHALL BE HOT DIP GALVANIZED.
- BRIDGE SEAT ELEVATIONS ARE BASED ON A TOTAL BEARING HEIGHT OF 2 1/4" MEASURED FROM THE TOP OF THE ABUTMENT LEVEL PAD TO THE BOTTOM OF THE GIRDER BOTTOM FLANGE. THE PLAN LOCATION OF HEIGHT IS AT THE INTERSECTION OF THE CENTERLINE OF BEARINGS AND THE GIRDER CENTERLINE. ADJUST BRIDGE SEAT ELEVATIONS IF THE MANUFACTURER'S SHOP DRAWINGS INDICATE A DIFFERENT HEIGHT.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. CALCULATIONS SHALL BE SUBMITTED, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NJ.



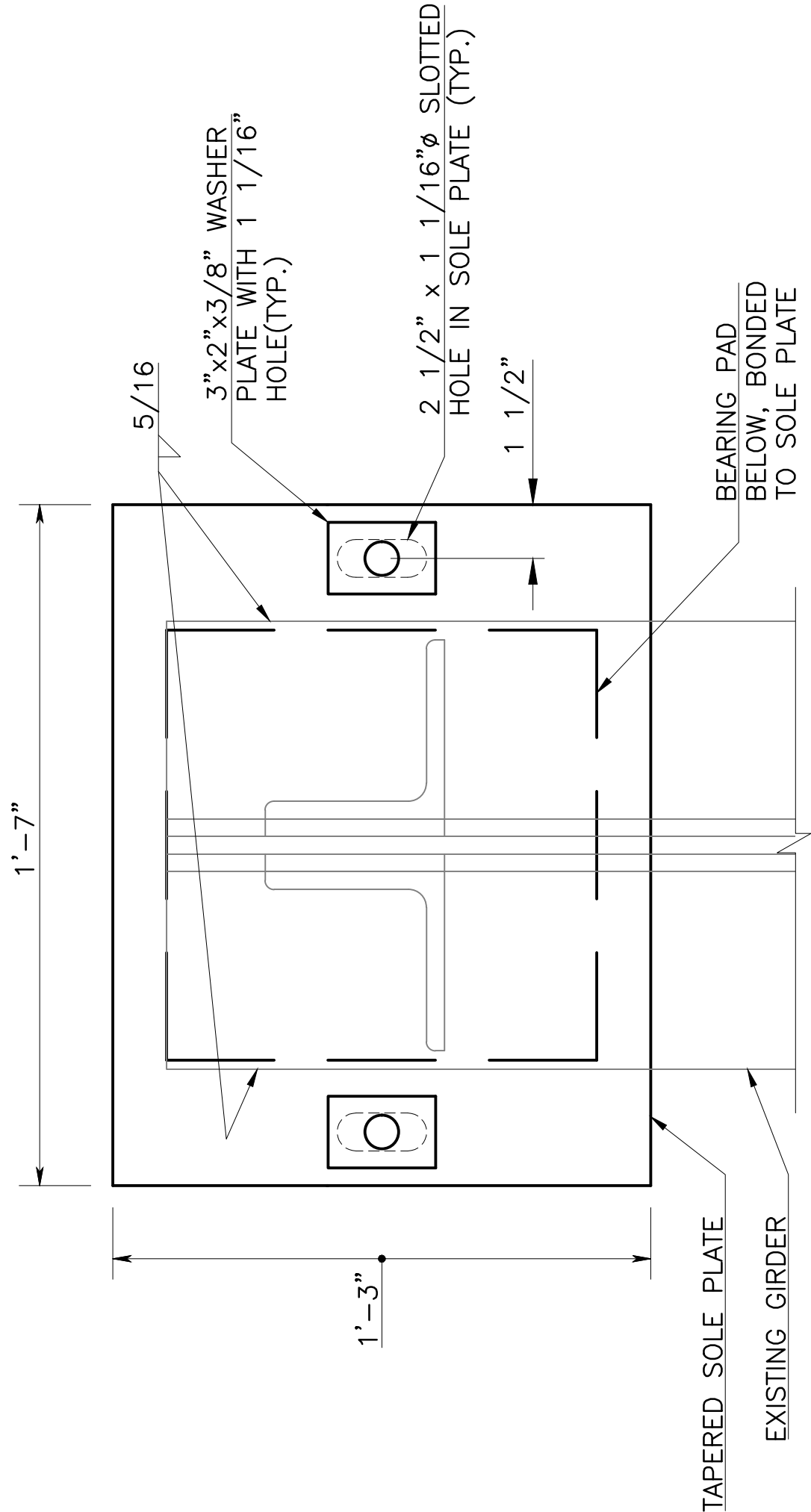
TYPICAL BEARING ELEVATION

SCALE: 3"=1'-0"



FIXED BEARING -- PLAN

SCALE: 1 1/2"=1'-0"

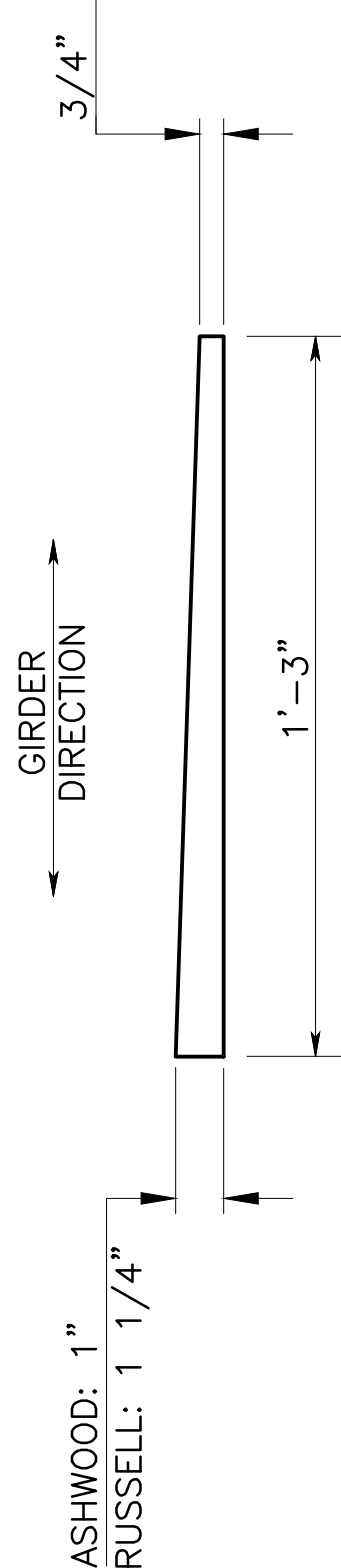


EXPANSION BEARING -- PLAN

SCALE: 1 1/2"=1'-0"

SOLE PLATE TAPER DETAIL

SCALE: 1 1/2"=1'-0"



CONTROL SECTION			
DES. BY	V.R.	CHK. BY	MHM
DWN. BY	D.M./V.R.		
IN CHARGE OF		M.H.M.	

REVISION	BY	CKD.	DATE	

EIC GROUP LLC CERTIFICATE OF AUTHORIZATION NO. JGA06090700	DATE: 3/1/2024
VICTORIA ROTBERG N.J. P.E. LICENSE #55833	SCALE: AS SHOWN
	SHEET NO: OF

23

24

CITY OF SUMMIT

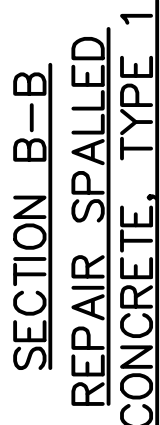
SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE
AND RUSSELL PLACE BRIDGES

TYPICAL BEARING DETAILS

 INDICATES REMOVAL AND REPLACEMENT OF SPALLED AND DETERIORATED CONCRETE; DEPTH VARIES.

NOTES:



SECTION B-B
REPAIR SPALLED
CONCRETE, TYPE 2

REPAIR SPALLED CONCRETE



SPALL REPAIR AT CORNER

N.T.S.

IN CASE THE CONCRETE IS NOT SOUND 1" BEYOND THE EXISTING REBAR, CONTRACTOR SHALL BE ALLOWED TO USE REPAIR SPALL CONCRETE, TYPE 2 - PIER/ABUTMENT AND SHALL REMOVE UP TO A MAXIMUM OF 8" OF CONCRETE AS PER DETAIL, WITH ENGINEER'S PERMISSION.

CONTROL SECTION					CHK. BY	MHM
DES. BY	V.R.			D.M./V.R.		
DWN. BY						
IN CHARGE OF					M.H.M.	

REVISION	BY	CK'D.	DATE		

DATE: 3/1/2024
SCALE: AS SHOWN
SHEET NO: _____ OF _____

CITY OF SUMMIT

SUMMIT PARK LINE PATHWAY

REHABILITATION OF ASHWOOD AVE BRIDGE AND RUSSELL PLACE BRIDGES

TYPICAL SPALL REPAIR DETAILS

N.T.S.

IN CHARGE OF
M.H.M.