

CITY OF CRETE, NEBRASKA
CITY COUNCIL REGULAR MEETING

June 2, 2020

Notice of the meeting was given by posting and publishing in The Crete News, the appointed method for giving notice as shown by the Proof of Publication attached to the minutes. Advance notice of the meeting was also given to the Mayor and City Council. Pursuant to Section 84-1412(8) of the Nebraska Open Meetings Act, the City has posted a current copy of the Open Meetings Act, Laws of the State of Nebraska in the back of the Council Chambers. Additional copies are available to read. The City may consider items listed on the agenda in random order. All proceedings shown were taken while the meeting was open to the attendance of the public.

Those in attendance pledged allegiance to the flag.

1. Open Meeting

2. Roll Call

3. Items of Business

A. Discuss and provide a recommendation to the City Council on enacting Ordinance 2104: An ordinance relating to water wells and plumbing.

B. Discuss new parking lot options for the downtown area.

C.

D. Discuss and provide a recommendation to the City Council on accepting the proposal from Mid-State Engineering for a geotechnical investigation of the lift station site for Belohlavy Estates.

E.

F. Discuss and provide a recommendation to the City Council on adopting Resolution 2020-14: A Resolution Approving the Preliminary Plans, Specifications, and Estimates for the Tuxedo Park Bridge Project.

G. Discuss and provide a recommendation to the City Council regarding Resolution 2020-13: A Resolution Granting NDOT Use of Public Property for the Tuxedo Park Bridge Project.

H. Discuss and provide a recommendation to the City Council on purchasing Lot 2 of Belohlavy Estates Subdivision and on authorizing the Mayor to execute any documents necessary to facilitate said purchase.

I. Discuss and provide a recommendation to the City Council on authorizing the Mayor to negotiate and execute any documents necessary to facilitate the sale of certain city property to Nestle Purina.

4. Officers' Reports

5. Adjournment

Mayor

(SEAL)

City Clerk

I, Judi Meyer, City Clerk for the City of Crete, hereby certify that the foregoing is a true and correct copy of the proceedings had and done by the Mayor and Council. I hereby certify that a copy of the Open Meetings Act was posted in the back of the Council Chambers. I certify that all of the subjects included in the foregoing proceedings were contained in the agenda for the meeting, kept continually current and available for public inspection at the office of the City Clerk. I certify that such subjects were contained in said agenda for at least twenty-four hours prior to said meeting and that at least one copy of all reproducible material discussed at the meeting was available at the meeting for examination and copying by members of the public. I certify that the minutes were in written form and available for public inspection within ten working days and prior to the next convened meeting of the City Council. I certify that all news media requesting notification concerning meetings of the City Council were provided with advance notification of the time and place of said meeting and the subjects to be discussed.

City Clerk

(S E A L)

ORDINANCE NO. 2104

AN ORDINANCE OF THE CITY OF CRETE, NEBRASKA RELATING TO PLUMBING AND WATER WELLS; TO AMEND SECTIONS OF CHAPTER 9, ARTICLE 7; TO REPEAL REPETITIVE OR OBSOLETE PROVISIONS; AND TO PROVIDE FOR INVESTIGATIONS OF VIOLATIONS AND PENALTIES.

BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF CRETE, NEBRASKA:

Section 1. That Chapter 9, Article 7, Section 9-702 of the Crete City Code shall be amended as follows:

§9-702 PLUMBING; WATER WELLS; PERMIT REQUIRED.

- (1) It shall be unlawful for any person ~~or persons to dig, drill, or construct, maintain, or use a water well or test well~~ within the ~~corporate limits or extraterritorial zoning jurisdiction of the City of Crete,~~ without having first obtained a ~~water well permit therefor from the Building Inspector City of Crete.~~ ~~The application for a water private wells permit shall be submitted in writing, and shall set forth:~~
 - ~~A. Location of proposed well;~~
 - ~~B. Intended use of the water;~~
 - ~~C. Depth of the Proposed well;~~
 - ~~D. Size and kind of casing to be installed;~~
 - ~~E. Pumping equipment;~~
 - ~~F. Name, address and license of well driller;~~
 - ~~G. Well driller's certification that design meets Nebraska Department of Health regulations.~~
- (2) ~~All applications for water well permits shall be submitted in a form and manner prescribed by the Building Inspector and shall contain all of the information required by the City and by any applicable laws, rules, or regulations promulgated by the State of Nebraska or its agencies. All Such applications shall include the full permit fee or shall be denied. be accompanied with an application fee as listed in §9-201 of this code, which shall cover the cost of inspection and study of plans, no part of which shall be refunded if the application is denied. The provisions of this Section shall apply to test wells. Such fees shall be established by the City Council, and no fees or portion of fees shall be refundable.~~
- (3) ~~Water well permits shall be valid for one year, and all persons maintaining or using water wells or test wells shall be required to have such wells inspected yearly by the Building Inspector and to obtain an annual permit to continue the maintenance or use of such water well or test well.~~

~~A well drilling log shall be filed with the City of Crete on completion of each well. This log shall contain at a minimum the strata encountered in drilling, the elevation at which there is a change in strata, and the static water level.~~

Section 2. That Chapter 9, Article 7, Section 9-703 of the Crete City Code shall be amended by repealing the existing Section 9-703 in its entirety and replacing it with the following:

§9-703 PLUMBING; WATER WELLS; LOCATION.

All water wells or test wells shall comply with the minimum separation distances specified in the rules and regulations of the Nebraska Department of Health and Human Services, except that the minimum separation

distance between a water well or test well and any septic tank must be at least one hundred feet (100').

Section 3. That Chapter 9, Article 7, Section 9-704 of the Crete City Code shall be amended as follows:

§9-704 PLUMBING; WATER WELLS; CROSS CONNECTIONS; PROHIBITED.

~~It shall be unlawful for any water well or test well to~~ No water from any private well shall be plumbed or connected in such a manner that City water from the water well or test well and the city's public water system well water are or could be connected, at the same time or each separately at different times, to the same piping system or appliance either both at the same time, or each separately at different times. The Plumbing Inspector may enter on to and inspect the owner's premises at all reasonable times when necessary to determine that no such cross connection of cross connections exist. If any cross connections exists are found by the Inspector to exist, the water well or test well shall be he or she may order the use of the private well to be permanently discontinued and decommissioned and/or the piping system shall be permanently disconnected from the city's public City water system. The owner, tenant and lessee shall be liable severally and jointly for all damages to the City water system and users caused by such cross connection.

Section 4. That Chapter 9, Article 7, Section 9-705 of the Crete City Code shall be amended as follows:

§9-705 PLUMBING; WATER WELLS; REGISTRATION; INSPECTION.

- (1) ~~All owners and/or operators of water wells or test wells located within the zoning jurisdiction of the City of Crete shall register their wells with the City of Crete by filing a well drilling log upon the completion of each well no later than sixty (60) days from the effective date of this Ordinance. The log shall contain all of the information required by the rules and regulations of the Nebraska Department of Health and Human Services for well logs. All registration forms shall be in writing and shall set forth:~~
- ~~A. Location of well;~~
 - ~~B. Use of water from well;~~
 - ~~C. Depth of well;~~
 - ~~D. Size and kind of casing installed;~~
 - ~~E. Pumping equipment used;~~
 - ~~F. Sanitary seal description.~~
- (2) All owners or operators of water wells or test wells shall be required to have the well inspected by the Building Inspector within sixty days following the construction or repair of any well. In the event the water well or test well is not in substantial compliance with any applicable laws, rules, or regulations, the well shall be repaired and reinspected within thirty days or the use of the well shall be immediately discontinued.

~~No well shall be modified in any manner, without application for a well permit. This registration requirement shall apply to all uncapped and unsealed wells whether they are currently producing water or not.~~

Section 5. That Chapter 9, Article 7, Section 9-706 of the Crete City Code shall be amended by repealing the existing Section 9-706 in its entirety and replacing it with the following:

§9-706 PLUMBING; WATER WELLS; BUILDING INSPECTOR AUTHORITY.

- (1) The Building Inspector shall have the power and authority to refuse to issue a water well permit if it

appears that the water well or test well violates or will violate any laws, rules, or regulations promulgated by the City of Crete, the State of Nebraska, or its agencies or if it appears that the water well or test well may endanger, impair, or in any way interfere with the city's public water system.

- (2) Whenever a water well or test well is determined to have an unsafe water sample, pose a significant health or safety hazard, or pose a risk of groundwater contamination, the Building Inspector shall have the power and authority to issue stop use orders, order the repair of the well, order the water of the well to be treated to reduce health or safety risks, or order the well to be decommissioned.
- (3) When necessary, the Building Inspector shall have the power and authority to enter property containing a water well or test well at any reasonable time to inspect the well and the premises to determine if a violation of any laws, rules, or regulations relating to water wells or test wells exists.

Section 6. That Chapter 9, Article 7, Section 9-707 of the Crete City Code shall be amended by repealing the existing Section 9-707 in its entirety and replacing it with the following:

§9-707 PLUMBING; WATER WELLS; INVESTIGATIONS; VIOLATIONS; PENALTY.

- (1) The Building Inspector shall investigate suspected violations of any laws, rules, or regulations relating to water wells and test wells. Whenever the Building Inspector finds a violation, a notice of violation shall be issued specifying the corrective action to be taken. The Building Inspector shall issue a citation to any owner or operator of a water well or test well if the violations are not corrected within thirty days.
- (2) Any person who violates any laws, rules, or regulations promulgated by the City of Crete, the State of Nebraska, or its agencies relating to water wells or test wells or who fails to comply with a lawful order of the Building Inspector shall be guilty of a Class III misdemeanor. Each day that a violation continues shall constitute a separate and distinct offense and shall be punishable as such. The penalties herein provided shall be cumulative and in addition to any other penalty, forfeiture, or action provided by law.

Section 7. That the above sections shall be codified as part of the Crete City Code as stated herein.

Section 8. That all ordinances and parts of ordinances in conflict herewith are hereby repealed.

Section 9. That this ordinance shall be published in pamphlet or book form and shall take effect and be in full force and effect from and after its passage, approval, and publication, as provided by law.

PASSED AND ENACTED this 19th day of May 2020.

Mayor

ATTEST:

City Clerk

MID-STATE
ENGINEERING &
TESTING, INC.

May 19, 2020

Mr. Dave Gilmore, P.E.
Gilmore & Associates
P.O. Box 565
Columbus, NE 68602-0565

RE: Proposal of Work and Costs
Geotechnical Engineering Study
Proposed Lift Station – Belohlavy Addition
Crete, Nebraska

Mr. Gilmore,

Mid-State Engineering & Testing, Inc. is pleased to submit this proposal to provide a Geotechnical Engineering Study for a single proposed new lift station in the Belohlavy Addition in Crete, Nebraska. This proposal will outline our proposed work scope and the associated costs required to complete this study.

PROJECT DESCRIPTION

As proposed, construction will consist of a single new lift station, located on the south side of Highway 33, east of Highways 103 on the western side of Crete, NE. Boring depth will range from 20-25 feet dependent upon groundwater elevation at the time of drilling.

PROPOSED WORK SCOPE

Our investigation will consist of drilling and sampling the subgrade soils, lab testing to determine the engineering property of the various soils, and a report of findings and recommendations. The scope of our report will include an evaluation of the engineering properties of the soils encountered, provide foundation bearing capacity and lateral earth pressure information and provide general recommendations for construction with respect to the soil's encountered.

MOBILIZATION

A one-time mobilization cost of \$400.00 will be required to mobilize a drill crew to and from the site.

DRILLING AND SAMPLING

Based on the size and anticipated depth of the structure, a single soil boring is recommended for the lift station structure. Dependent upon groundwater depths at the time of drilling and the indicated structure depth, a boring depth of 20-25 feet is recommended.

MID-STATE
ENGINEERING & TESTING

Proposed Lift Station
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Drilling and sampling (Split Spoon or Shelby Tube) at intervals of 5 feet or less will be performed with a Mobil drill rig using continuous flight augers. All drilling will be performed at a unit cost of \$16.00/lineal foot. Borings will be logged by a Professional Geotechnical Engineer or Engineering Technician. Based on a range of drilling footage of 20 to 25 lineal feet, drilling costs will range between \$320.00 and \$400.00.

LABORATORY TESTING

Based on previous experience with similar projects, we anticipate the following tests will be required to evaluate the site soils. Testing will be performed at the following unit rates.

Moisture Contents (D2216-80).....	\$9.00 each
Density Determinations (D2216-80)	33.00 each
Atterberg Limits (D4318-84).....	60.00 each
Sieve Analysis (washed) (D422-72).....	90.00 each
#200 Washed Sieve Analysis (D1140-70).....	27.50 each

We anticipate total lab testing will range between approximately \$150.00 and \$300.00.

ENGINEERING

Engineering time will be provided at a rate of \$120.00/hour a Senior Level Geotechnical Engineer. This includes the costs of data reduction, report preparation, and consultation during design. We anticipate total engineering costs to complete this study will be \$960.00.

ESTIMATED TOTAL COST

Based on the indicated work scope, the total cost for this study is estimated at \$1,830.00 to \$2,060.00. The \$2,060.00 figure will not be exceeded unless additional work is authorized by the Owner. All work will be invoiced at the unit rates noted in this proposal for only the work performed.

Due to COVID-19, our drilling crew has limited capacity and our backlog significant. Consequently, we anticipate being able to begin drilling approximately two weeks after authorization to proceed (weather permitting), with a formal report completed approximately 10 - 14 days after drilling. Verbal information will be available approximately 5 days after drilling has been completed.

Mid-State Engineering & Testing Inc. is qualified to conduct material testing for the U.S. Army Corps of Engineers for soils, aggregates and concrete tests and is accredited through the AASHTO Accreditation Program in Concrete, and Aggregates. Inspections and proficiency tests are performed through CCRL and AMRL. Our field technicians are certified through NICET, ACI, and NDOR. Mid-State Engineering & Testing, Inc. carries a full range of general and professional liability insurance, which has been included for your review and would be in effect for this project. Any additional

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ENGINEERING & TESTING

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insurance requested would be invoiced only at the cost required to obtain the additional insurance.

If you have any questions or need further information, please contact us at 402-562-7824. If this proposal of work and cost is acceptable, please return a signed copy at your convenience.

Respectfully Submitted,
Mid-State Engineering & Testing, Inc.



Scott A. Barnett, P.E.
Senior Engineer

Accepted by: _____ Date: _____

- TUXEDO PARK ROAD -

- NOTES -

No plans are available for existing structure.

This structure is designed in accordance with the AASHTO LRFD Bridge Design Specifications, Eighth Edition.

The superstructure and substructure are designed for a future wearing surface of 35 psf.

No excavation will be permitted in the area of underground facilities until all such facilities have been located and identified to the satisfaction of all parties. The excavation must be accomplished with extreme care in order to avoid any possibility of damage to the utility facility.

The contractor may substitute any one of the alternate designs shown on the plans for the original design. All quantities are based on the original design and no additions or deductions will be allowed for the use of an alternate design.

Unless noted as "optional", all construction joints shown are mandatory.

All dimensions shown are in horizontal plane only. No allowances have been made for vertical curve or roadway cross slope.

Concrete for slab, approach slabs and rails shall be Class "47BD", with a 28-day strength of 4000 psi.

All other cast-in-place concrete shall be Class "47B" concrete, with a 28-day strength of 3000 psi.

Chamfer all exposed edges of concrete.

The minimum clearance, measured from the face of the concrete to the surface of any reinforcing bar shall be 3", except where otherwise noted.

The Contractor shall take all necessary precautions during the construction of this project to prevent any debris or rubble from falling into the water below the structure.

All reinforcing steel shall be epoxy coated and conform to the requirements of ASTM A615/A615M, Grade 60 steel.

Structural steel for all "H" Piles shall conform to ASTM A709/A709M, Grade 50.

All other structural steel shall conform to the requirements of ASTM A709/A709M, Grade 36.

The Pay Item, "STRUCTURAL STEEL FOR SUBSTRUCTURE," shall include the nose angles at the Bents.

After fabrication, nose angles at the bents shall be galvanized according to ASTM A123/A123M

Drainage matting shall wrap around the sloping drain pipe and extend 3 ft. along the wings.

All plastic pipe, galvanized wire screen, and miscellaneous drainage items at the abutments shall be considered subsidiary to the Pay Item, "SUBSURFACE DRAINAGE MATTING".

- QUANTITIES -

GROUP 6


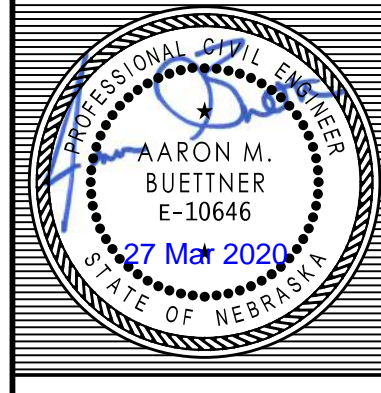
ABUTMENT NO. 1 EXCAVATION _____	1	LS
BENT NO. 1 EXCAVATION _____	1	LS
BENT NO. 2 EXCAVATION _____	1	LS
ABUTMENT NO. 2 EXCAVATION _____	1	LS
CLASS 47B-3000 CONCRETE FOR BRIDGE _____	302.8	CY
ABUTMENTS _____	102.8	CY
BENTS _____	200.0	CY
CLASS 47BD-4000 CONCRETE FOR BRIDGE _____	303.8	CY
SLAB _____	278.1	CY
CONCRETE RAILS _____	25.7	CY
EPOXY COATED REINFORCING STEEL _____	93,255	LB
SLAB _____	66,350	LB
CONCRETE RAILS _____	5,790	LB
ABUTMENTS _____	9,110	LB
BENTS _____	12,005	LB
STRUCTURAL STEEL FOR SUBSTRUCTURE _____	1,325	LB
STEEL SHEET PILING _____	5,034	SF
HP 12 INCH x 53 LB STEEL PILING _____	2,720	LF
GRANULAR BACKFILL _____	155	CY
SUBSURFACE DRAINAGE MATTING _____	42	SY
ROCK RIPRAP TYPE "B" _____	350	TON
RIPRAP FILTER FABRIC _____	483	SY
PEDESTRIAN BARRIER RAIL _____	166	LF
PEDESTRIAN RAILING (CHAIN-LINK TYPE) _____	164	LF
CONCRETE FOR PAVEMENT		
APPROACHES CLASS 47BD-4000 _____	138.8	CY
SLAB _____	123.2	CY
CONCRETE RAILS _____	15.6	CY
EPOXY COATED REINFORCING STEEL		
FOR PAVEMENT APPROACHES _____	27,070	LB
SLAB _____	22,375	LB
CONCRETE RAILS _____	4,695	LB
PREFORMED EXPANSION JOINT, TYPE B _____	79	LF
BRIDGE JOINT NOSING _____	8	CF
ACCESS CROSSING _____	1	LS
BRIDGE DECK GROOVING _____	415	SY

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SHOP PLANS REQUIRED FOR REVIEW:

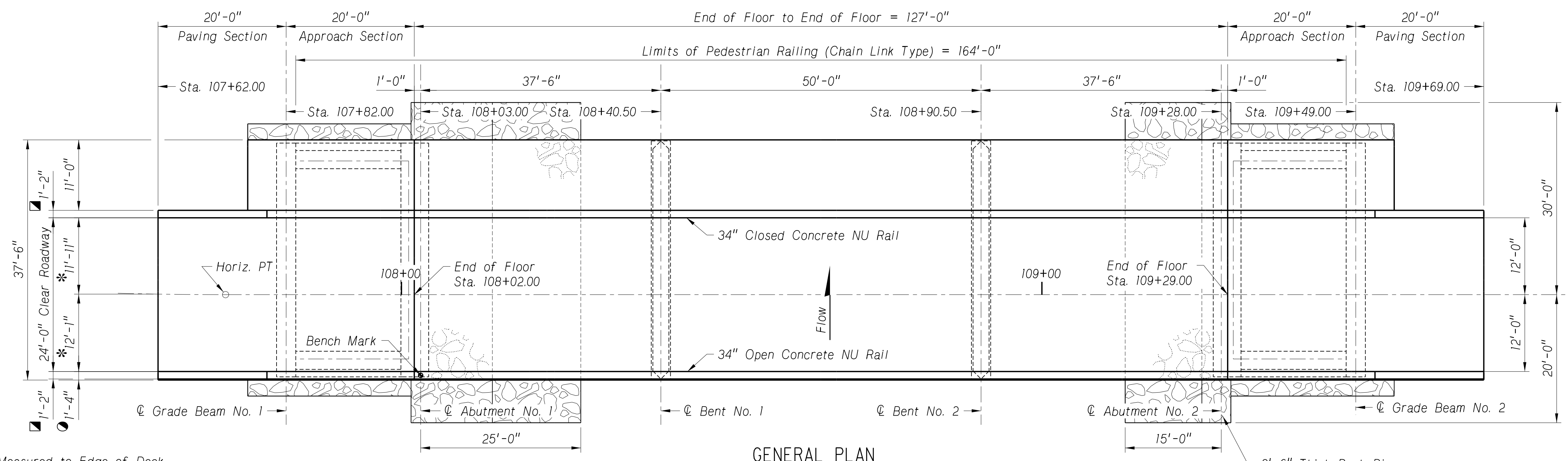
- Steel Sheet Piling
- Substructure Steel
- Pedestrian Barrier Rail
- Pedestrian Railing (Chain-Link Type)

PROJECT NUMBER	7076(24)	SHEET NO.	51	C.N. 13361	
				STRUCTURE NUMBER	U062044305
					
BRIDGE ENGINEER					
COUNTY SALINE	LOCATION TUXEDO PARK ROAD	SKW 0°	ROADWAY 24'-0"	DESIGN LIVE LOAD HL-93	DATE MARCH, 2020
HWY. NO. -	ST. A. 108+65.50	DESIGNED BY ZZJ	CHECKED BY MJK	GENERAL NOTES, QUANTITIES, & INDEX	
NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION					
					
				SPECIAL PLAN NO.	1
					20

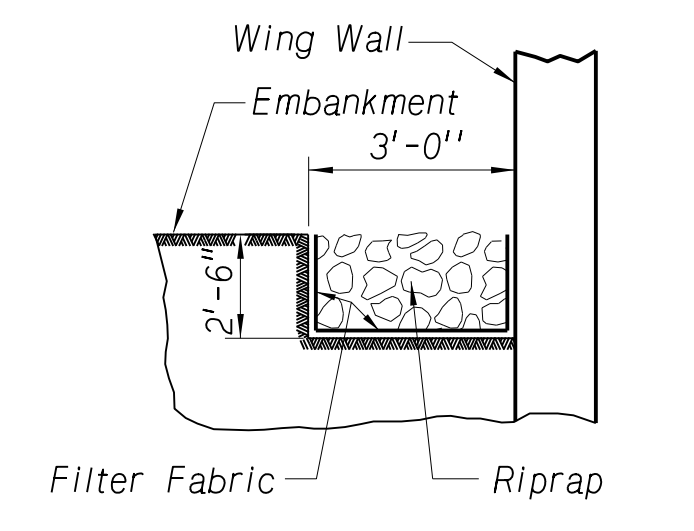
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TRAFFIC DATA		
YEAR	2017	2039
ADT	255	320
DHV	-	-
HEAVY TRUCKS	10%	10%

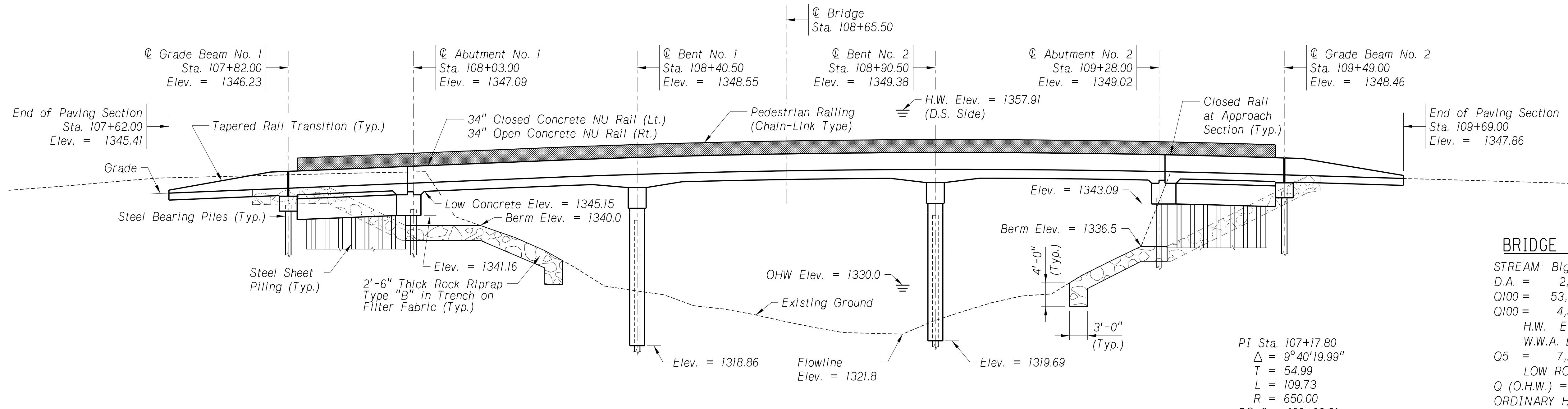
This structure is located in Saline County on Tuxedo Park Road over the Big Blue River in Section 28, T8N, R4E.



- Measured to Edge of Deck
- Rail Width
- * Measured at End of Paving Section No. 1



NOTE: The average size of riprap shall be 0.25 cu. ft., or 35 lbs.



HORIZONTAL CURVE INFORMATION

PI Sta. 107+17.80
 $\Delta = 9^{\circ}40'19.99''$
 T = 54.99
 L = 109.73
 R = 650.00
 PC Sta. 106+62.81
 PT Sta. 107+72.54

BRIDGE HYDRAULIC INFORMATION

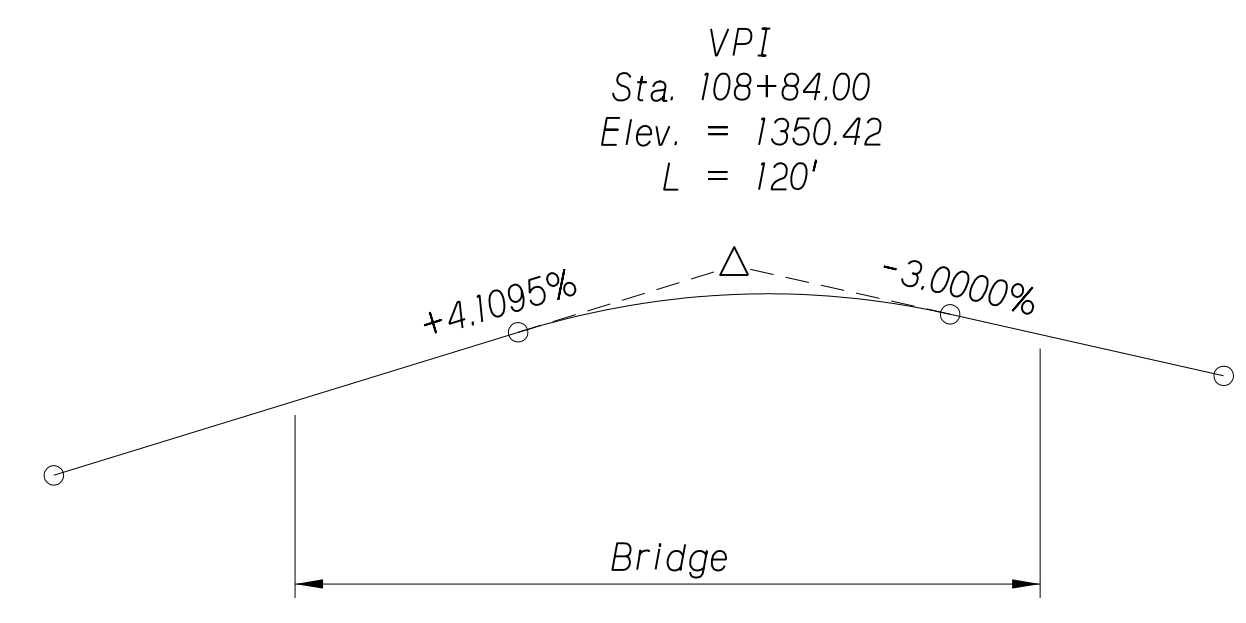
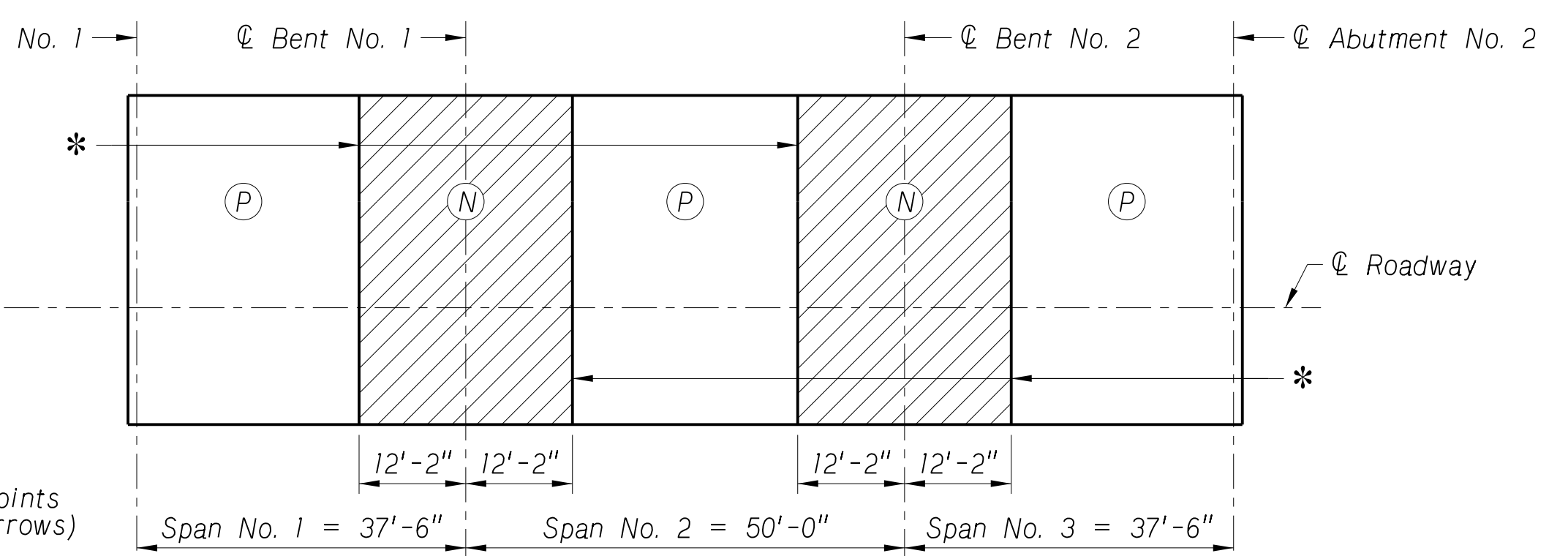
STREAM: Big Blue River
 D.A. = 2.716 SQ MI
 Q100 = 53,000 CFS (BASE FLOOD)
 Q100 = 4,998 CFS (BRIDGE - BASE FLOOD)
 H.W. ELEV. = 1357.91 FT (U.S. SIDE)
 W.W.A. BELOW H. W. = 23,940 SQ FT
 Q5 = 7,240 CFS (OVERTOPPING FLOOD)
 LOW ROAD ELEV. = 1341.25 FT
 Q (O.H.W.) = 650 CFS
 ORDINARY HIGH WATER ELEV. = 1330.0 FT
 Q100 GENERAL SCOUR = 4 FT
 Q100 LOCAL SCOUR = 12 FT
 Q500 SCOUR ELEV. = 1307.0 FT

POURING SEQUENCE:

The entire slab shall be poured starting at either end and proceeding to the other end stopping at the completion of any "P" section.

- (P) = Positive Moment Section
- (N) = Negative Moment Section

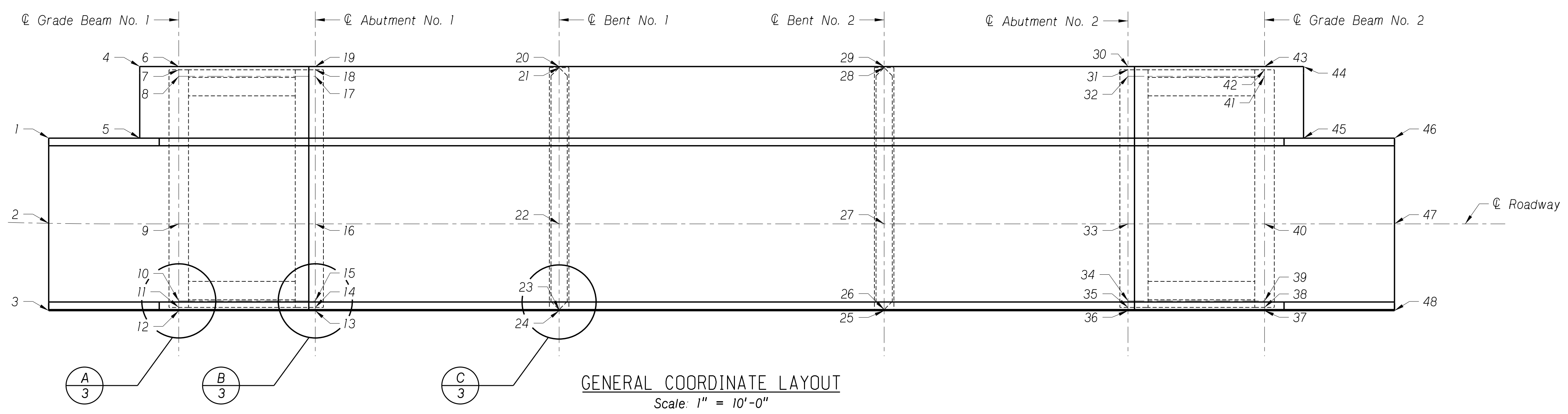
* Optional Construction Joints (Pour in direction of arrows)



VERTICAL PROFILE DATA (For Bridge Only) Not to Scale



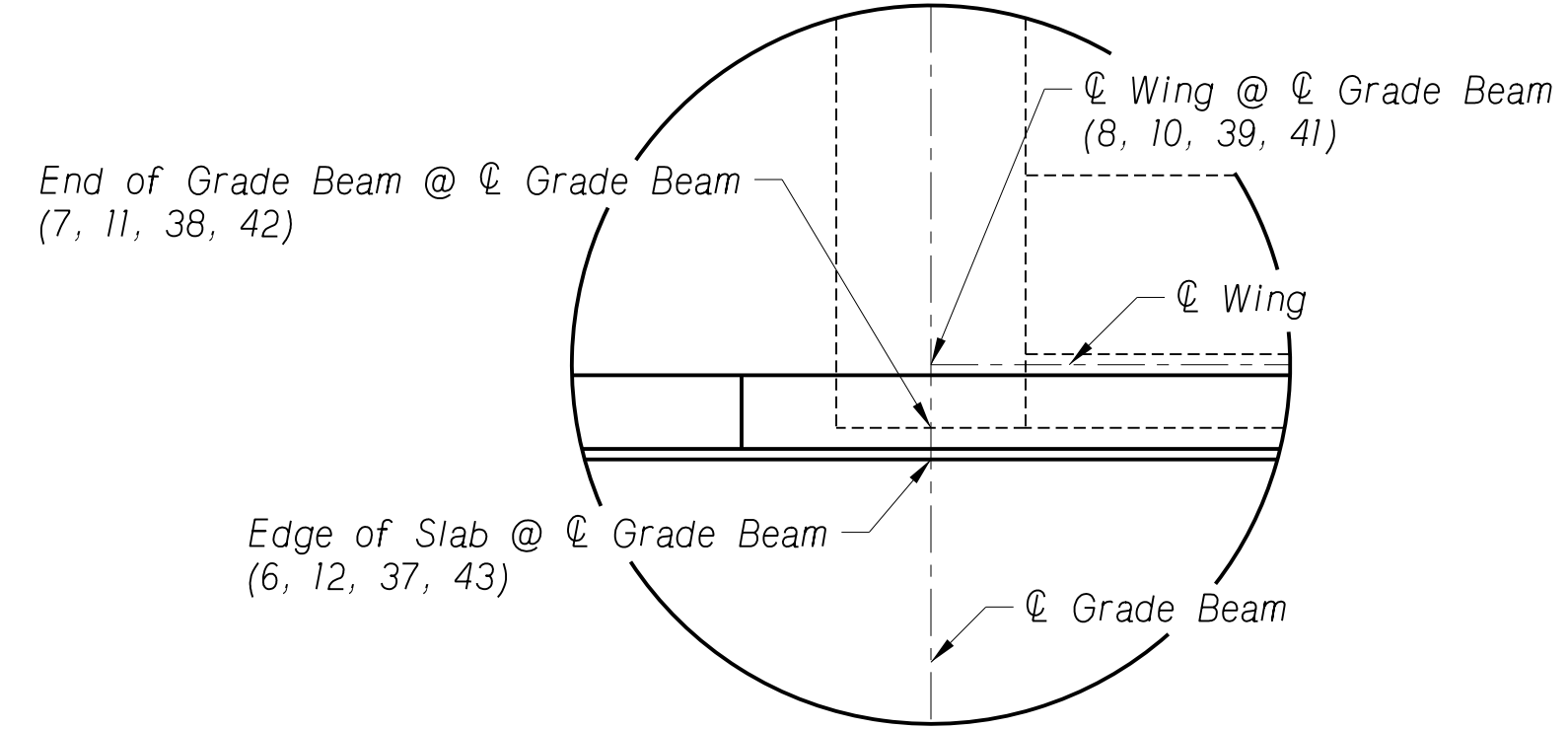
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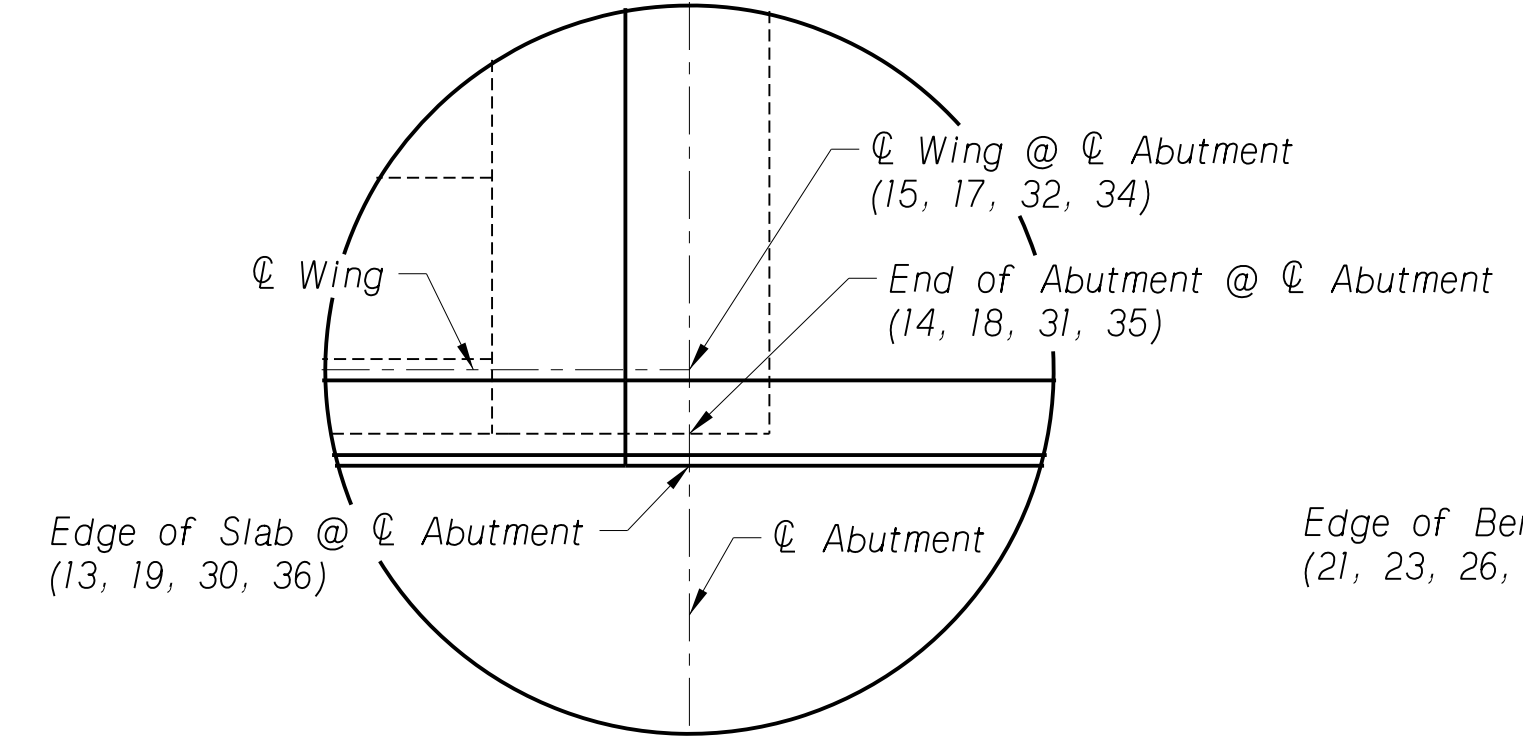
GENERAL COORDINATE LAYOUT
Scale: 1" = 10'-0"

DATUM INFORMATION
Horizontal: NAD 83 (1995)
Vertical: NAVD 88
DAF = 1.0002948

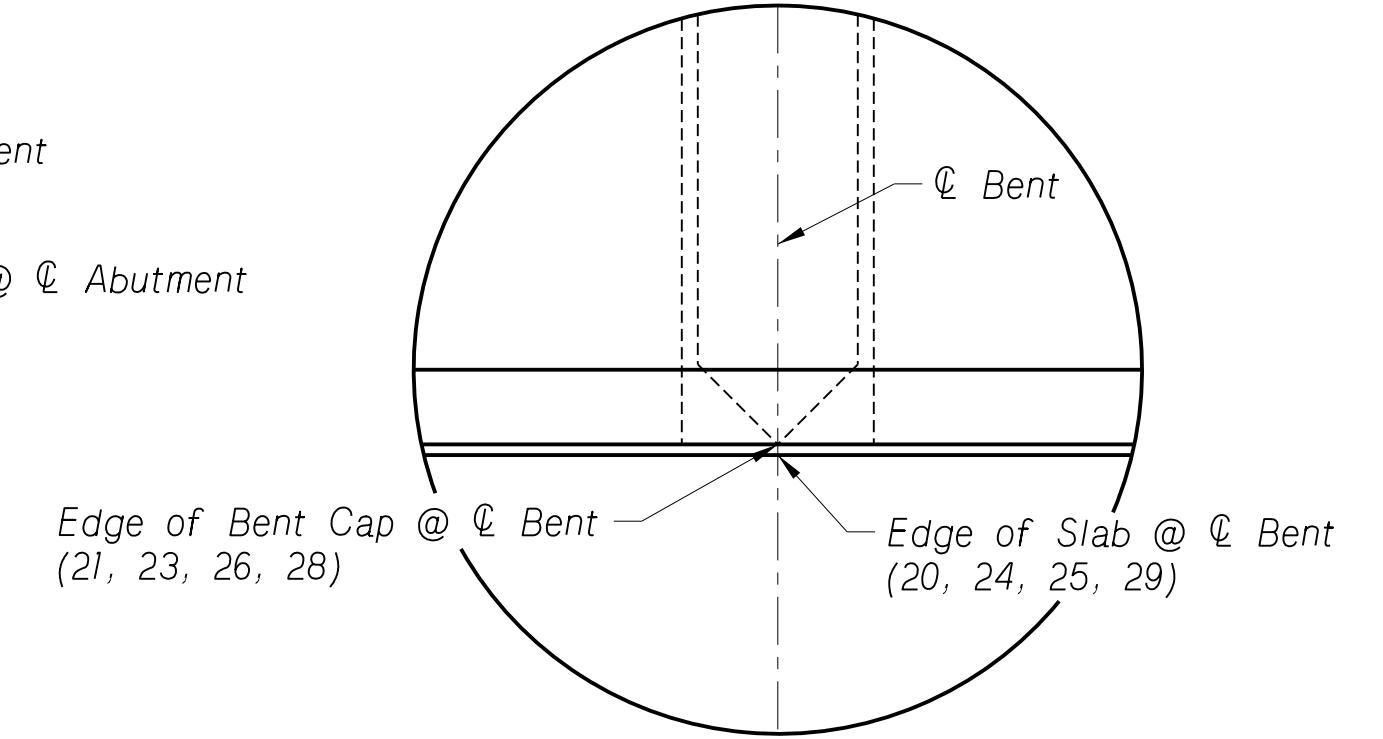
POINT NO.	STATION	OFFSET (ft.)	X COORDINATE	Y COORDINATE
5RBR	106+53.38	32.08 Lt.	2481559.725	304121.305
PK SPIKE	105+70.49	0.05 Rt.	2481594.591	304039.530
MKRX	110+14.21	22.87 Lt.	2481507.750	304472.810
THUB	111+64.55	36.38 Lt.	2481464.363	304617.387
60D SPIKE	109+57.60	206.29 Rt.	2481743.604	304463.314



DETAIL A
Not to Scale



DETAIL B
Not to Scale



DETAIL C
Not to Scale

COORDINATES, STATIONING & OFFSETS														
LOCATION	STATION	OFFSET (ft.)	X COORDINATE	Y COORDINATE	LOCATION	STATION	OFFSET (ft.)	X COORDINATE	Y COORDINATE	LOCATION	STATION	OFFSET (ft.)	X COORDINATE	Y COORDINATE
1	107+61.78	13.08 Lt.	2481567.84	304227.67	21	108+40.50	24.00 Lt.	2481541.48	304302.40	41	109+49.00	22.67 Lt.	2481521.03	304408.97
2	107+62.00	0.00	2481580.66	304230.30	22	108+40.50	0.00	2481565.00	304307.22	42	109+49.00	23.67 Lt.	2481520.05	304408.77
3	107+62.21	13.42 Rt.	2481593.80	304232.99	23	108+40.50	13.17 Rt.	2481577.89	304309.86	43	109+49.00	24.17 Lt.	2481519.56	304408.67
4	107+76.00	24.17 Lt.	2481554.26	304239.18	24	108+40.50	13.33 Rt.	2481578.06	304309.89	44	109+55.00	24.17 Lt.	2481518.35	304414.54
5	107+76.00	13.17 Lt.	2481565.03	304241.39	25	108+90.50	13.33 Rt.	2481568.03	304358.88	45	109+55.00	13.17 Lt.	2481529.13	304416.75
6	107+82.00	24.17 Lt.	2481553.05	304245.06	26	108+90.50	13.17 Rt.	2481567.87	304358.84	46	109+69.00	13.17 Lt.	2481526.32	304430.47
7	107+82.00	23.67 Lt.	2481553.54	304245.16	27	108+90.50	0.00	2481554.97	304356.20	47	109+69.00	0.00	2481539.22	304433.11
8	107+82.00	22.67 Lt.	2481554.52	304245.36	28	108+90.50	24.00 Lt.	2481531.45	304351.39	48	109+69.00	13.33 Rt.	2481552.28	304435.78
9	107+82.00	0.00	2481576.73	304249.91	29	108+90.50	24.17 Lt.	2481531.29	304351.36					
10	107+82.00	11.83 Rt.	2481588.32	304252.28	30	109+28.00	24.17 Lt.	2481523.77	304388.09					
11	107+82.00	12.83 Rt.	2481589.30	304252.48	31	109+28.00	23.67 Lt.	2481524.26	304388.19					
12	107+82.00	13.33 Rt.	2481589.79	304252.58	32	109+28.00	22.67 Lt.	2481525.24	304388.39					
13	108+03.00	13.33 Rt.	2481585.58	304273.16	33	109+28.00	0.00	2481547.45	304392.94					
14	108+03.00	12.83 Rt.	2481585.09	304273.05	34	109+28.00	11.83 Rt.	2481559.04	304395.31					
15	108+03.00	11.83 Rt.	2481584.11	304272.85	35	109+28.00	12.83 Rt.	2481560.02	304395.51					
16	108+03.00	0.00	2481572.52	304270.48	36	109+28.00	13.33 Rt.	2481560.51	304395.62					
17	108+03.00	22.67 Lt.	2481550.31	304265.93	37	109+49.00	13.33 Rt.	2481556.30	304416.19					
18	108+03.00	23.67 Lt.	2481549.33	304265.73	38	109+49.00	12.83 Rt.	2481555.81	304416.09					
19	108+03.00	24.17 Lt.	2481548.84	304265.63	39	109+49.00	11.83 Rt.	2481554.83	304415.89					
20	108+40.50	24.17 Lt.	2481541.32	304302.37	40	109+49.00	0.00	2481543.23	304413.51					

C.N. 13361
STRUCTURE NUMBER
U062044305
PROFESSIONAL CIVIL ENGINEER
MARK J. TRAYNOWICZ
E-8119
STATE OF NEBRASKA
BRIDGE ENGINEER

125'-0" 3-SPAN CONCRETE
SLAB BRIDGE
COORDINATE PLAN
DATE MARCH, 2020
CHECKED BY ZZJ
DESIGNED BY NTF/KEC
LOCATION TUXEDO PARK ROAD
COUNTY SALINE
HWY. NO. -
REF. POST. -
STA. 108+65.50
ROADWAY 24'-0"
DESIGN LIVE LOAD HL-93
NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION

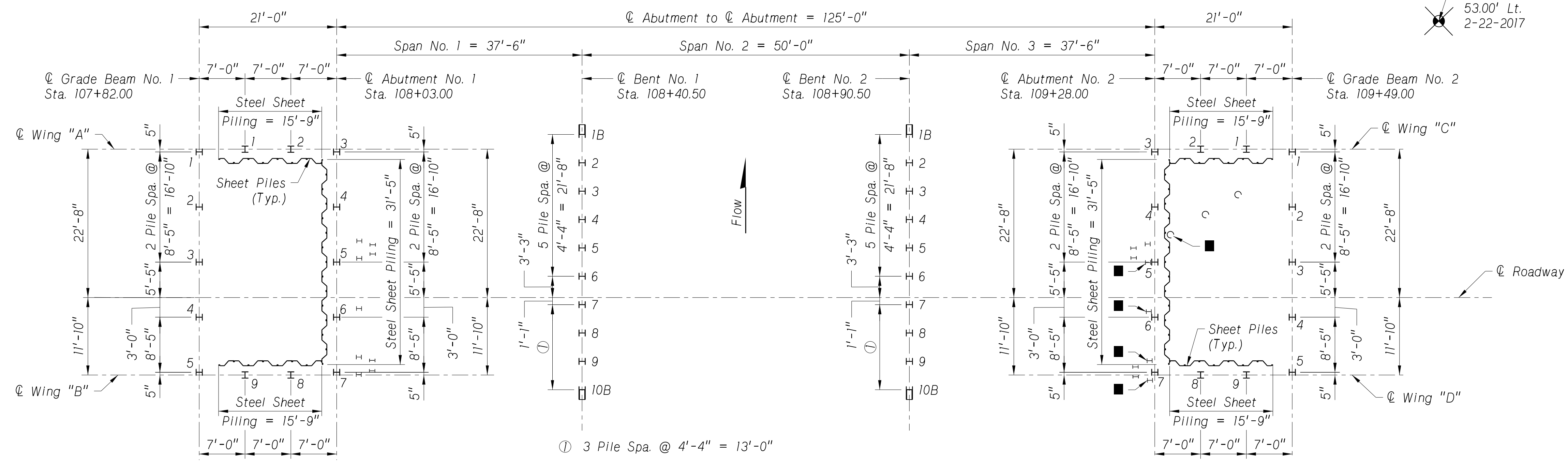
NEBRASKA
Good Life. Great Journey.
DEPARTMENT OF TRANSPORTATION

PROFESSIONAL CIVIL ENGINEER
ARON M. BUETTNER
E-10646
27 MAR 2020
STATE OF NEBRASKA

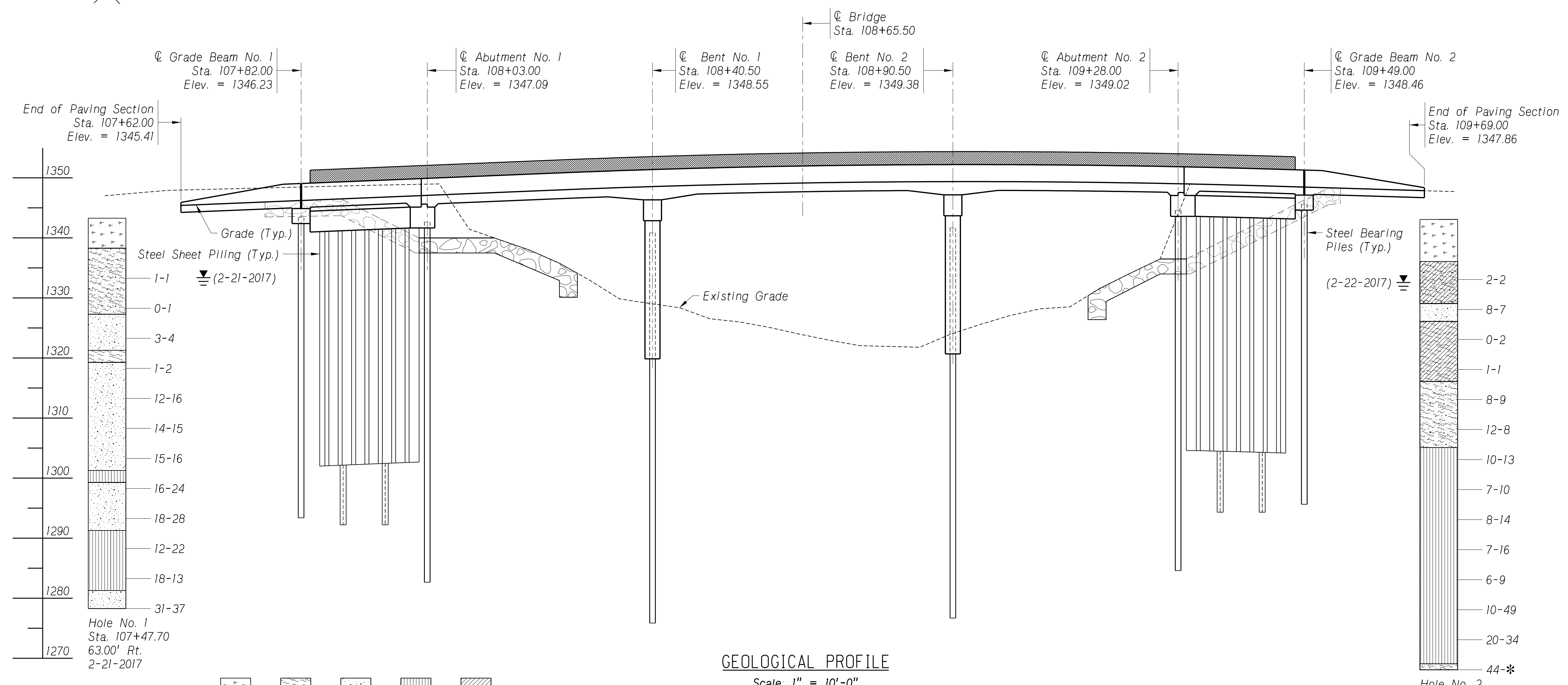


SPECIAL PLAN NO. 3
1 20

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PILE LAYOUT
 Scale: 1" = 10'-0"



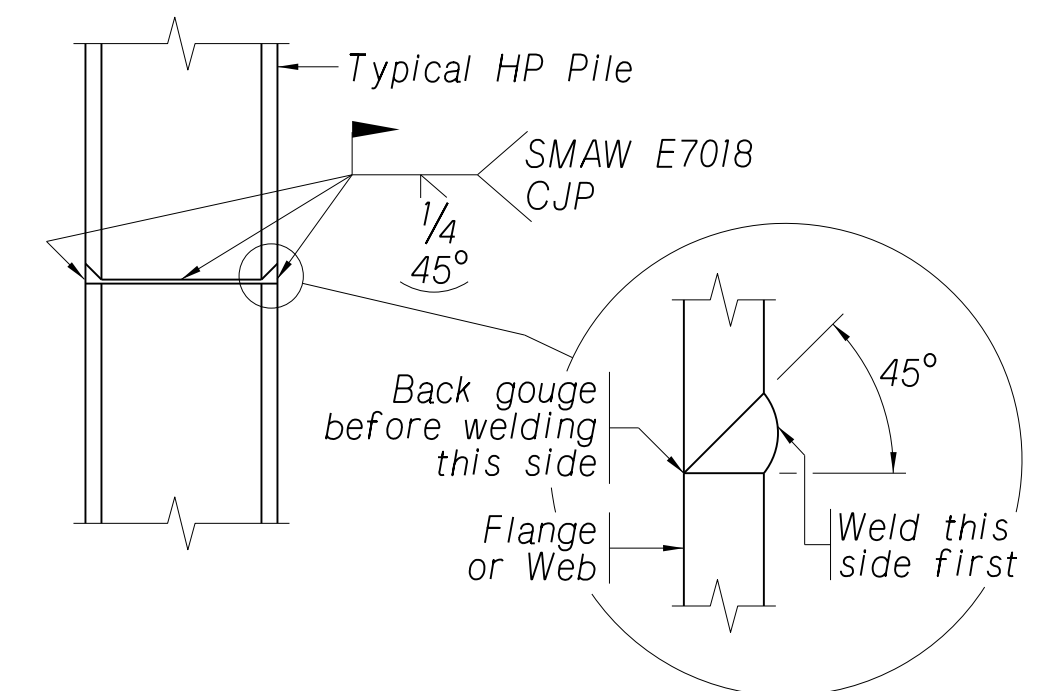
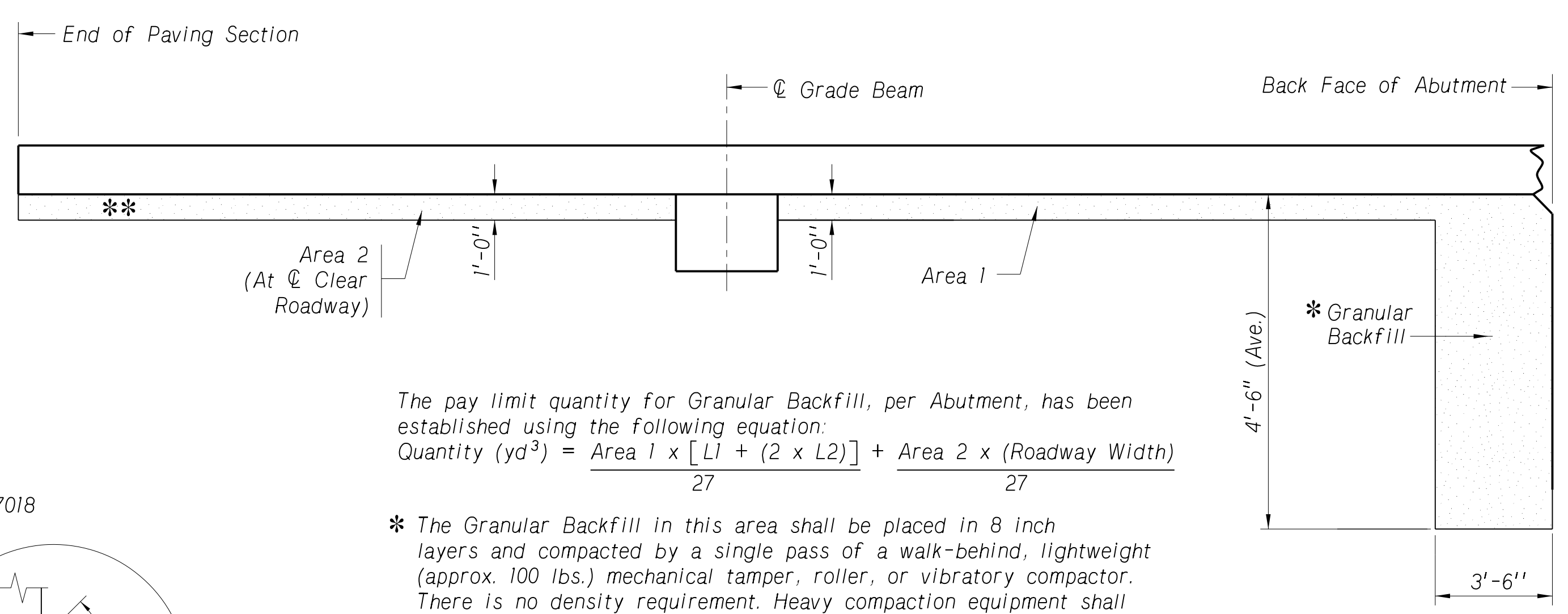
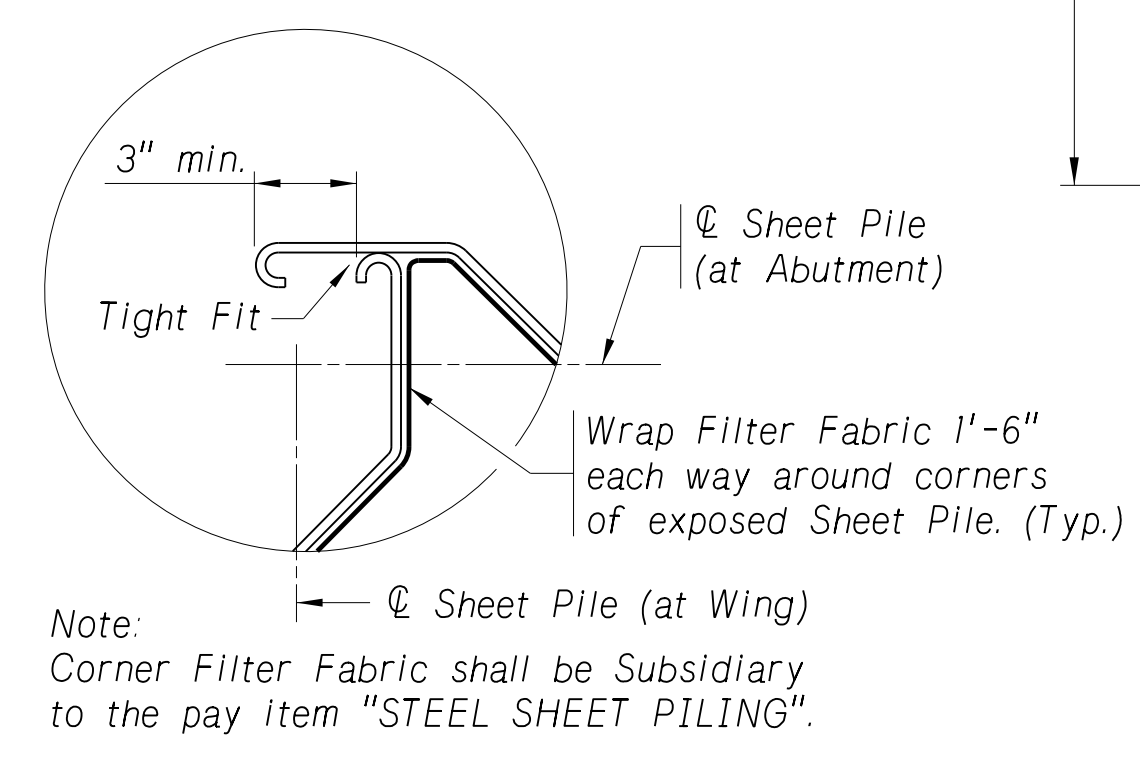
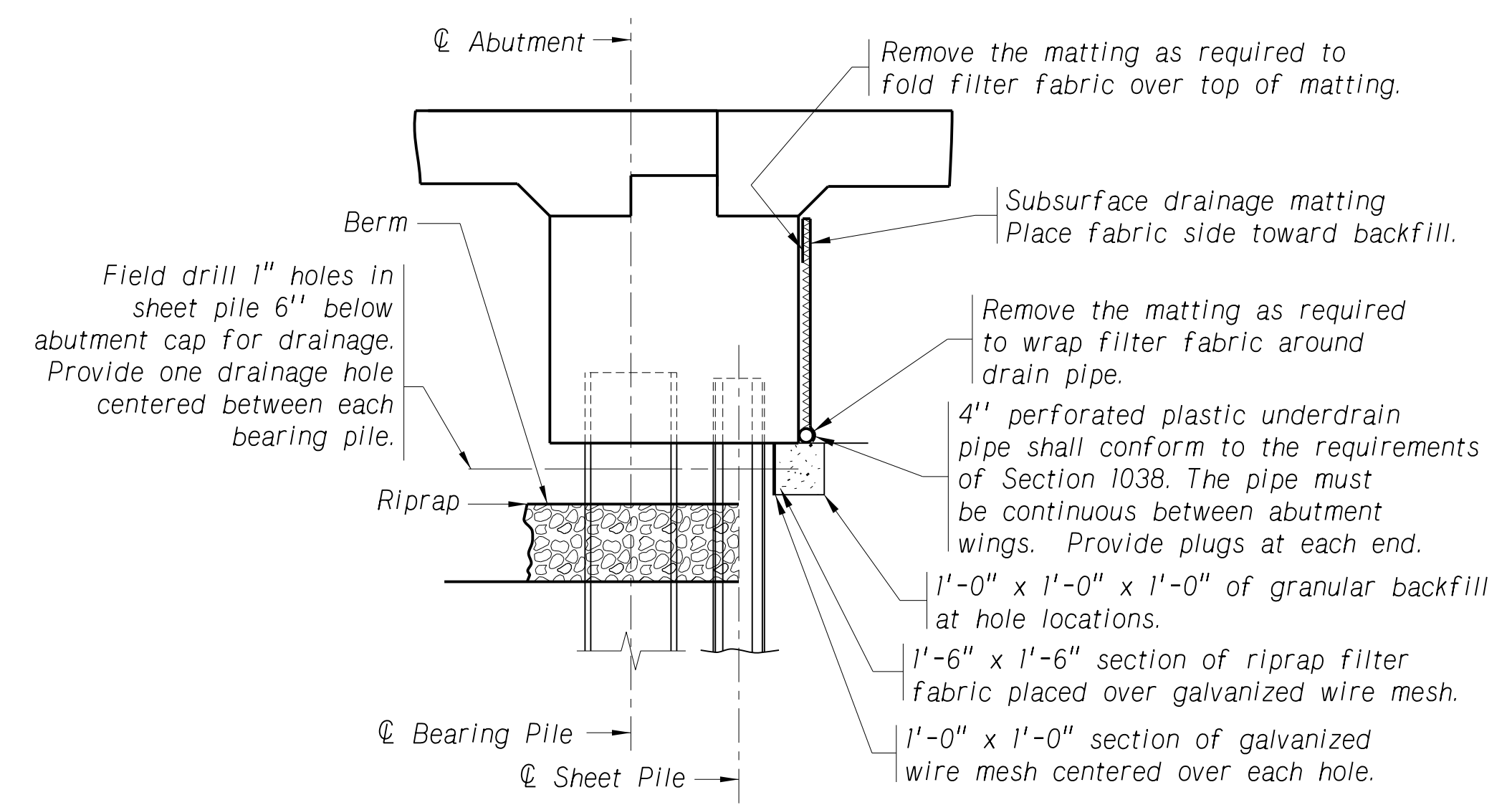
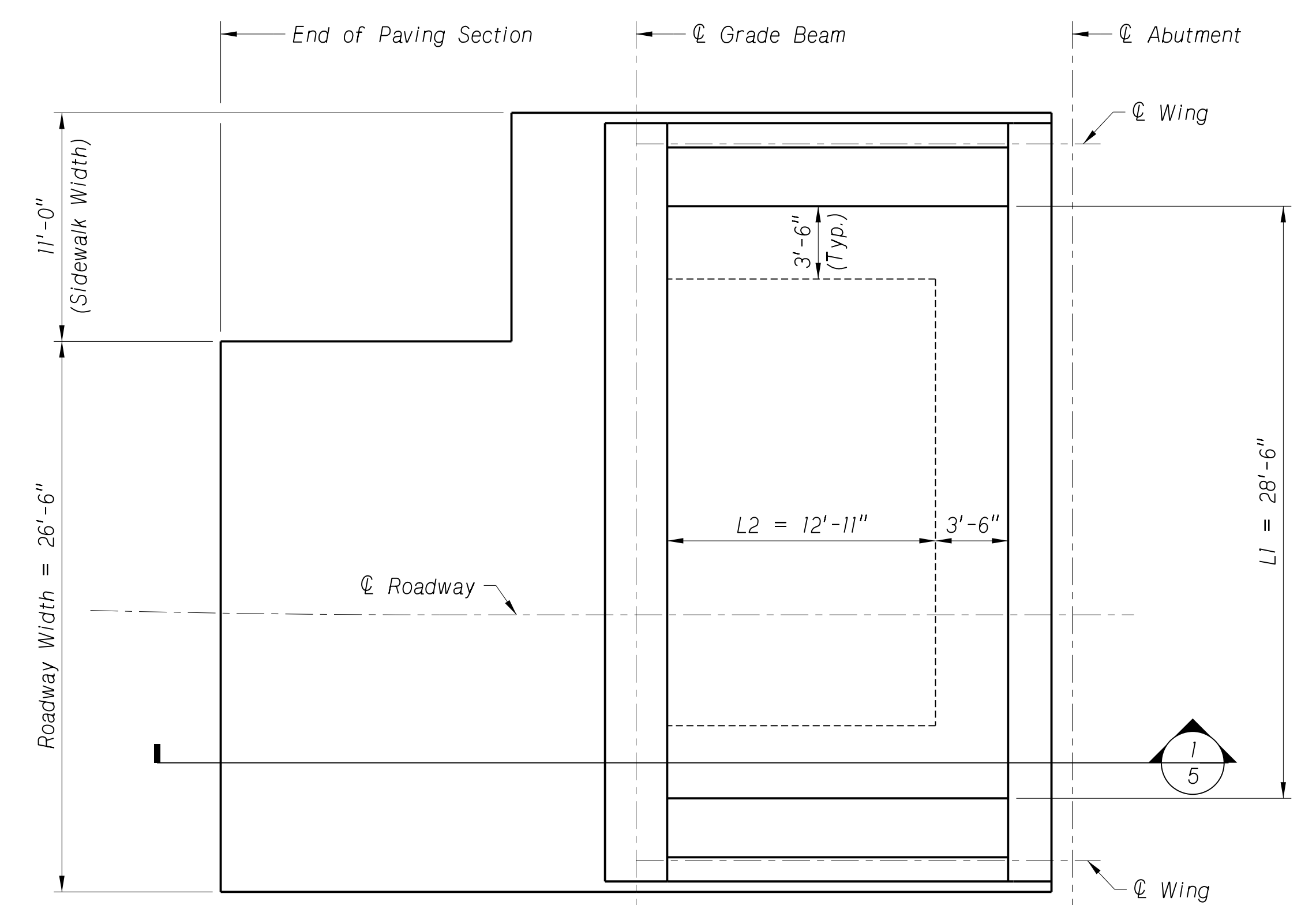
GEOLOGICAL PROFILE
 Scale: 1" = 10'-0"

- NOTES:
- All pile spacing is given at bottom of concrete.
 - Bent piling followed by the letter "B" shall be battered at 1.5:12.
 - Grade Elevations are Profile Grade at the Profile Grade Line (PGL)
 - Stations shown are at $\text{\textcircled{C}}$ Project
 - The borings, as logged on the plans, represent the character of the subsoil at the location indicated. No guarantee is made that the subsoil conditions vary uniformly between or outside the given plan.
 - Figures beside the column of borings indicate the number of blows required to drive a standard penetrometer, of 2" O.D., the second and third 6" using a 140 lb weight falling 2'-6", in accordance with A.S.T.M. D1586 procedures.
 - Cut down existing piles to remain a minimum of 2'-0" below final grade.
 - Extraction of existing piles shall not be paid for directly, but shall be considered subsidiary to the Item "HP 12X53 PILING."
 - Holes created by extracting piles near Abutment No. 2 shall be backfilled with clean, fine sand.
 - Bents are designed to scour to elevation 1305.8 for 100-yr flood.
 - Bents are designed to scour to elevation 1307.0 for 500-yr flood.
- * = Refusal of SPT sampler (more than 100 blows in 6")
 H = Existing Steel Pile
 O = Existing Timber Pile
 ■ Extract Pile, Contact Engineer if Pile cannot be Extracted
 ≡ = Water Level



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PILE DATA						
LOCATION	PILE NUMBER	CUT-OFF ELEVATION	MINIMUM PENETRATION BELOW CUT-OFF (feet)	PILE ORDER LENGTH (feet)	DESIGN PILE BEARING (kips/pile)	PILE TYPE
Grade Beam No. 1	1-5	1343.48	45	50	100	HP 12x53
Abutment No. 1	1,2,8,9	1342.16	45	50	100	HP 12x53
	3-7	1342.16	55	60	165	HP 12x53
Bent No. 1	1B,3,5,6,8,10B	1338.86	60	65	185	HP 12x53
Bent No. 1	2,4,7,9	1328.86	50	55	185	HP 12x53
Bent No. 2	1B,3,5,6,8,10B	1339.69	60	65	185	HP 12x53
Bent No. 2	2,4,7,9	1329.69	50	55	185	HP 12x53
Abutment No. 2	1,2,8,9	1344.09	45	50	100	HP 12x53
	3-7	1344.09	55	60	165	HP 12x53
Grade Beam No. 2	1-5	1345.71	45	50	100	HP 12x53



Note: Extend drainage matting 3'-0" along the wings.

SHEET PILE NOTES

As a minimum, all steel sheet piling shall conform to ASTM A328/A328M steel and shall meet the following requirements:

Section Length 40 ft
 Maximum section depth 16 in
 Minimum section thickness 0.3125 in
 Min. Elastic section modulus..... 32 in³/ft

The contractor shall submit for approval a shop plan of the sheet pile layout showing all pertinent dimensions, details and section properties.

The pay quantity shall be based on the sheet pile wall dimensions shown. The constructed wall length shall be within ± 2'-0" of the sheet pile wall dimensions shown.

Sheet piles at corners shall overlap a minimum of 3", see detail this sheet.

Top of Sheet Piles at the Wings shall follow the slope of the Wing Cap and shall have a minimum embedment of 1'-0".

Top of Sheet Piles at Abutment Caps shall be as follows:
 Abutment No. 1 = 1342.16
 Abutment No. 2 = 1344.09

The pay limit quantity for Granular Backfill, per Abutment, has been established using the following equation:
 Quantity (yd³) = $\frac{\text{Area 1} \times [L1 + (2 \times L2)]}{27} + \frac{\text{Area 2} \times (\text{Roadway Width})}{27}$

- * The Granular Backfill in this area shall be placed in 8 inch layers and compacted by a single pass of a walk-behind, lightweight (approx. 100 lbs.) mechanical tamper, roller, or vibratory compactor. There is no density requirement. Heavy compaction equipment shall not be used in this area. Flooding the granular backfill with water is not allowed.
- ** The Granular Backfill in this area shall be compacted in accordance with the Standard Specifications.

Granular Backfill under the sidewalk at the Paving Section is not included in the computed quantity, but is subsidiary to the pay item "GRANULAR BACKFILL".

SECTION 1/5
Not to Scale



C.N. 13361
 STRUCTURE NUMBER U062044305
 PROFESSIONAL CIVIL ENGINEER
 MARK J. TRAYNOWICZ
 E-8119
 STATE OF NEBRASKA
 BRIDGE ENGINEER

125'-0" 3-SPAN CONCRETE SLAB BRIDGE
 PILE DATA & GRANULAR BACKFILL DETAILS
 CHECKED BY MJK DATE MARCH, 2020
 DESIGNED BY ZZJ
 COUNTY SALINE
 HWY. NO. 24
 ROADWAY 24'-0"
 DESIGN LIVE LOAD HL-93
 NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION

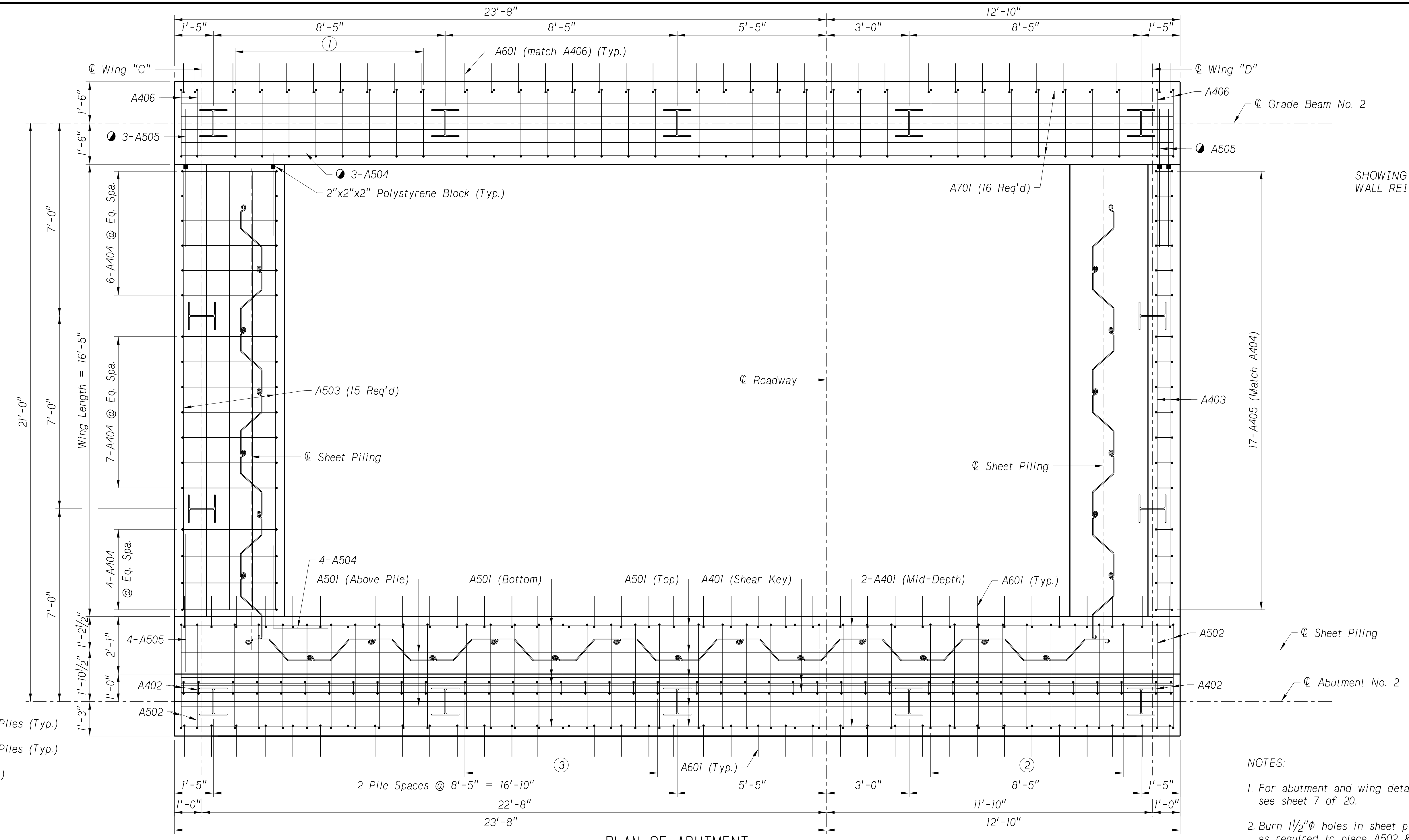
NEBRASKA
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 DEPARTMENT OF TRANSPORTATION
 PROFESSIONAL CIVIL ENGINEER
 ARON M. BUETTNER
 E-10646
 27 MAR 2020
 STATE OF NEBRASKA

SPECIAL PLAN NO. 1/5
 20

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SHOWING CAP REINFORCING

SHOWING WING WALL REINFORCING

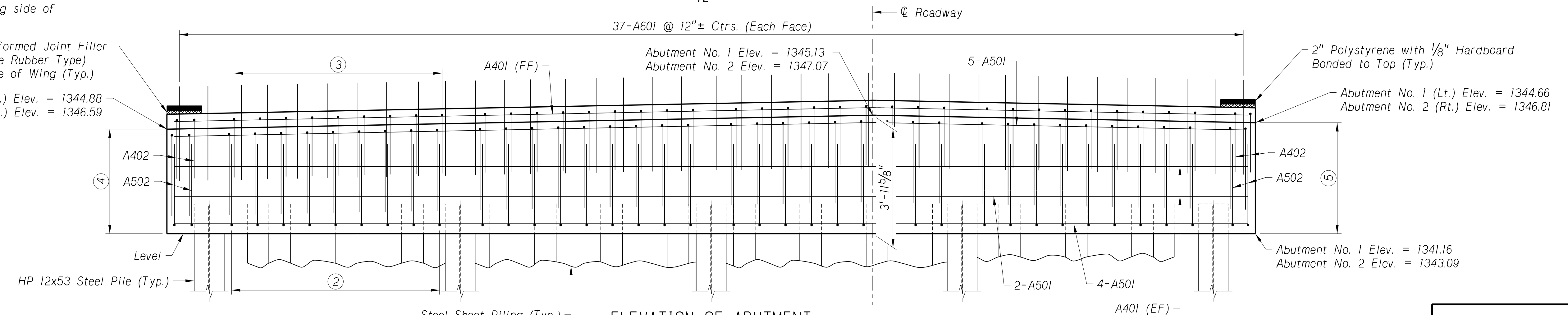


PLAN OF ABUTMENT

(Showing Abutment No. 2, Abutment No. 1 Similar, but Opposite Hand)
 Scale: 1/2" = 1'-0"

- NOTES:**
- For abutment and wing details, see sheet 7 of 20.
 - Burn 1 1/2" diameter holes in sheet piling as required to place A502 & A404 bars.
- (EF) = Each Face

1" Preformed Joint Filler (Sponge Rubber Type) at Face of Wing (Typ.)
 Abutment No. 1 (Rt.) Elev. = 1344.88
 Abutment No. 2 (Lt.) Elev. = 1346.59



ELEVATION OF ABUTMENT

(Showing Abutment No. 2, Abutment No. 1 Similar, but Opposite Hand)
 Scale: 1/2" = 1'-0"

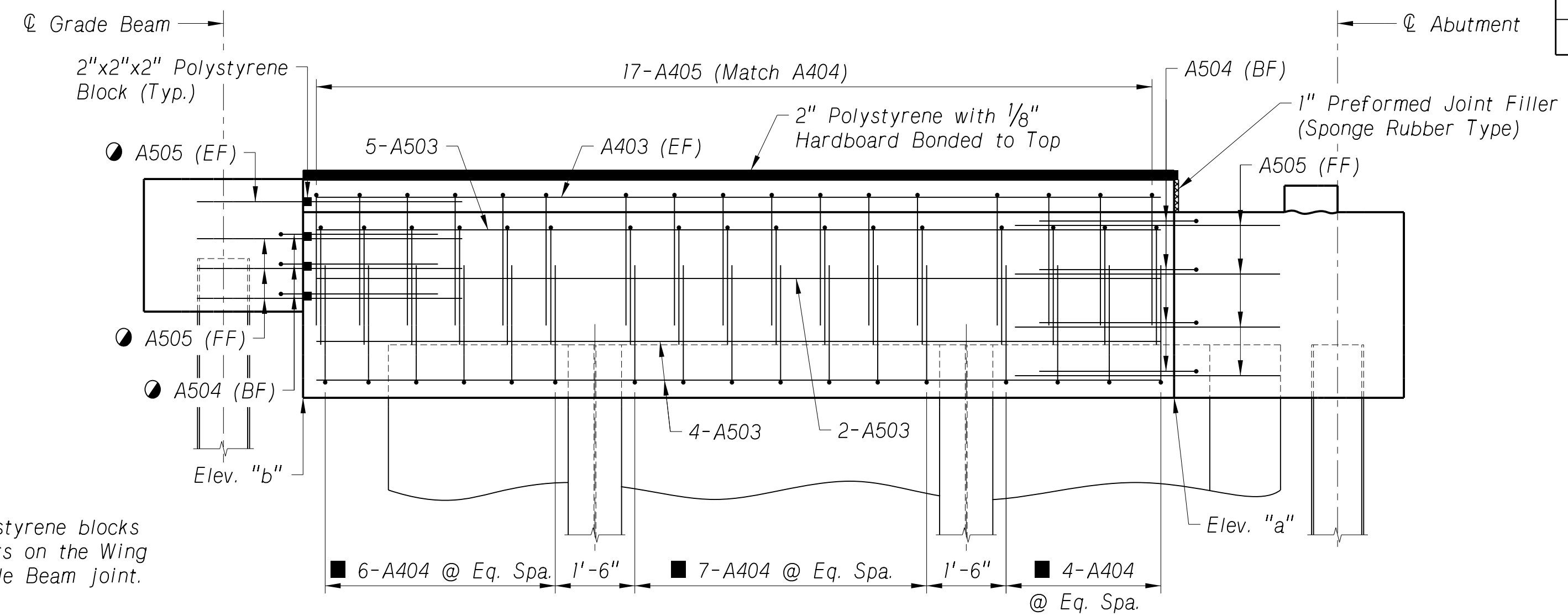
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BILL OF BARS

MARK	NO.	LENGTH	TYPE	"A"	"B"	"C"	"D"	"E"	"F"	PIN	HOOK	WEIGHT LBS
A701	16	36'-0"	Str.									1,177
A601	110	3'-0"	105	1'-6"	1'-6"	1'-1"				4 1/2"		496
A501	11	36'-0"	Str.									413
A502	40	18'-8"	108	2'-9"	3'-10"	2'-9"	2'-0" Min.			2 1/2"		779
A503	30	15'-11"	Str.									498
A504	14	6'-0"	104	3'-0"	3'-0"					2 1/2"		88
A505	18	5'-0"	Str.									94
A401	6	36'-0"	Str.									144
A402	40	4'-6"	103	2'-0"	0'-6"	2'-0"				2"		120
A403	4	15'-11"	Str.									43
A404	34	16'-0"	108	2'-3"	3'-6"	2'-3"	1'-6"			2"		363
A405	34	4'-8"	103	2'-0"	0'-8"	2'-0"				2"		106
A406	36	9'-9"	107	2'-0"	2'-6"					2"	4 1/2"	234
SUBTOTAL = 4,555 LB												
A701	16	36'-0"	Str.									1,177
A601	110	3'-0"	105	1'-6"	1'-6"	1'-1"				4 1/2"		496
A501	11	36'-0"	Str.									413
A502	40	18'-8"	108	2'-9"	3'-10"	2'-9"	2'-0" Min.			2 1/2"		779
A503	30	15'-11"	Str.									498
A504	14	6'-0"	104	3'-0"	3'-0"					2 1/2"		88
A505	18	5'-0"	Str.									94
A401	6	36'-0"	Str.									144
A402	40	4'-6"	103	2'-0"	0'-6"	2'-0"				2"		120
A403	4	15'-11"	Str.									43
A404	34	16'-0"	108	2'-3"	3'-6"	2'-3"	1'-6"			2"		363
A405	34	4'-8"	103	2'-0"	0'-8"	2'-0"				2"		106
A406	36	9'-9"	107	2'-0"	2'-6"					2"	4 1/2"	234
SUBTOTAL = 4,555 LB												
TOTAL = 9,110 LB												

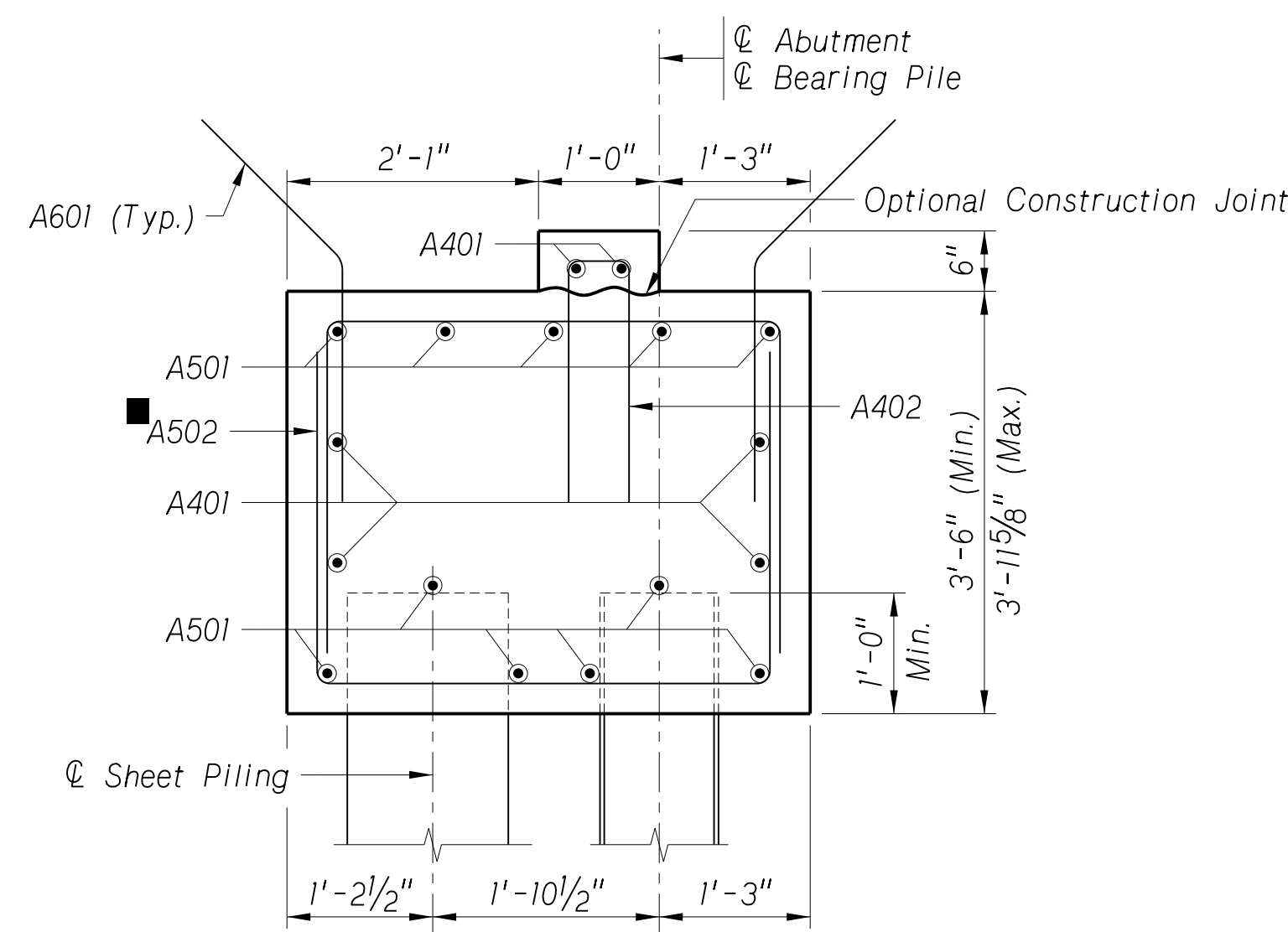
NOTE: FOR BENDING DIAGRAMS, HOOK LENGTHS, & PIN DIAMETERS SEE SHEET 20 OF 20.



- Provide 2"x2" polystyrene blocks over A504 & A505 bars on the Wing side of the Wing/Grade Beam joint.
- Burn 1/2" holes in sheet piling as necessary.

(EF) = Each Face
(FF) = Front Face
(BF) = Back Face

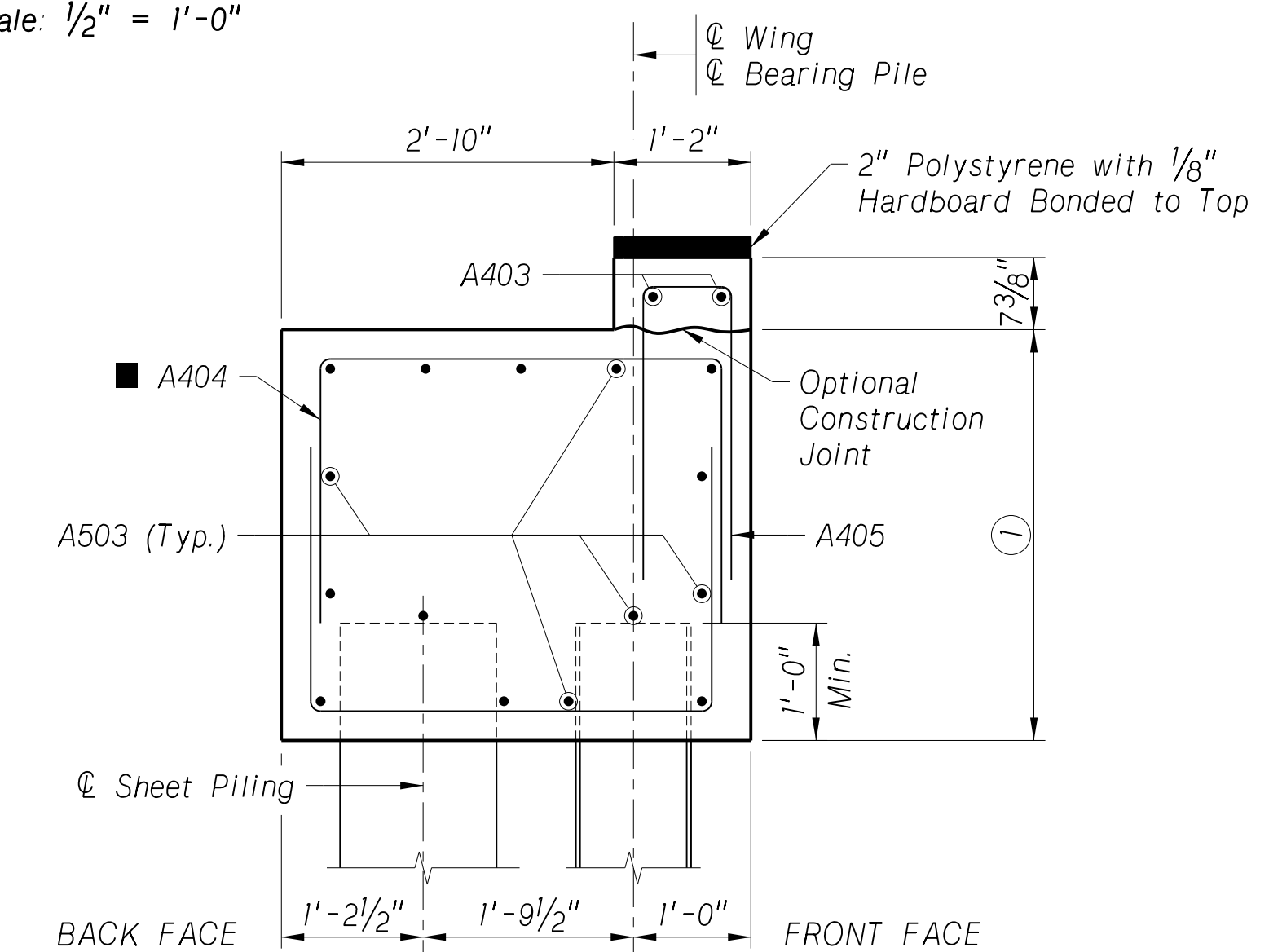
WING ELEVATIONS				
Location	Wing	Elev. "a"	Elev. "b"	(1)
Abutment	"A"	1341.16	1340.36	3'-6"
No. 1	"B"	1341.16	1340.36	3'-8 5/8"
Abutment	"C"	1343.09	1342.58	3'-6"
No. 2	"D"	1343.09	1342.58	3'-8 5/8"



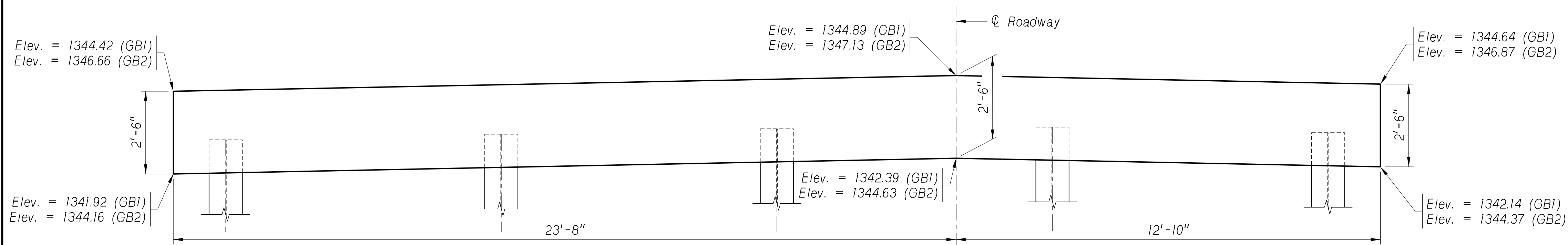
ABUTMENT SECTION
Scale: 3/4" = 1'-0"

WING ELEVATION

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



WING SECTION
Scale: 3/4" = 1'-0"



GRADE BEAM ELEVATION
(Looking Ahead Station)
Scale: 1/2" = 1'-0"

(GB1) = Grade Beam No. 1
(GB2) = Grade Beam No. 2

Steel trowel to smooth finish on the full width of the Grade Beam for placement of the SBS Modified Asphalt Base Sheet.



PROJECT NUMBER	SHEET NO.
7076(24)	57

C.N. 13361
STRUCTURE NUMBER
U062044305



BRIDGE ENGINEER

125'-0" 3-SPAN CONCRETE SLAB BRIDGE
ABUTMENT DETAILS & BILL OF BARS
DATE MARCH, 2020
CHECKED BY MJK
DESIGNED BY ZZJ
COUNTY SALINE
HWY. NO. -
REF. POST. -
STA. 108+65.50
DETAILED BY LKH
NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION

NEBRASKA
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DEPARTMENT OF TRANSPORTATION



SPECIAL PLAN NO.	7
	20

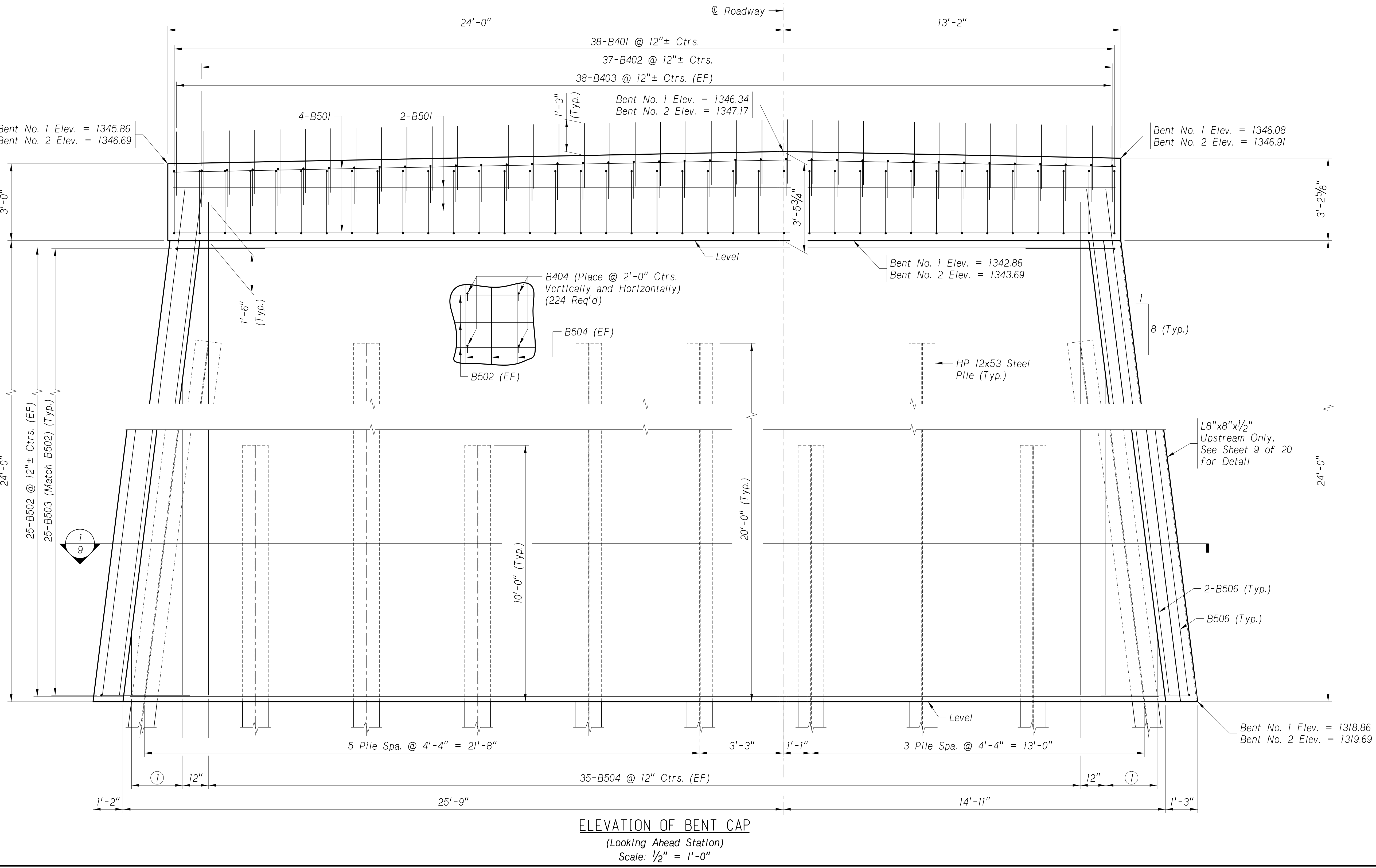
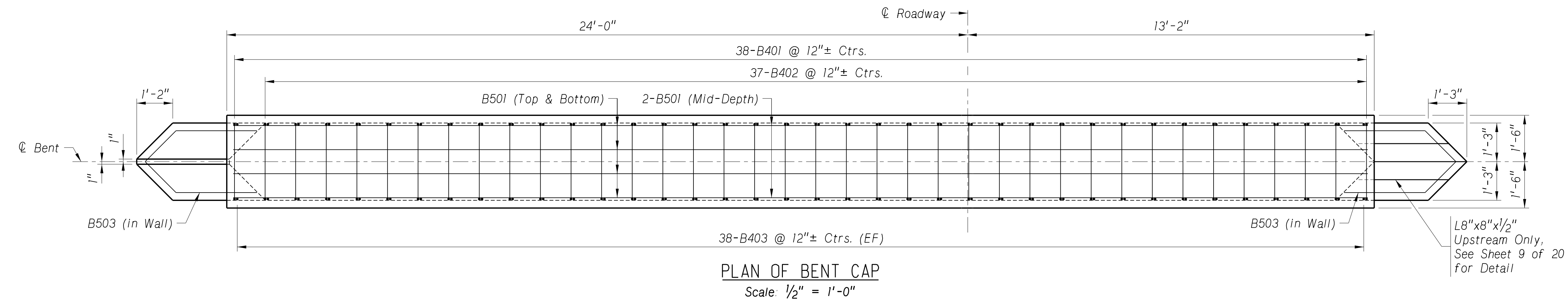


BRIDGE ENGINEER

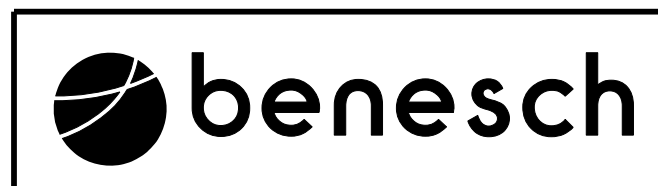
NOTES:
 For Partial Section of Bent Wall see sheet 9 of 20.
 ① 3-B505 @ 12" Ctrs. (EF)
 (EF) Each Face

125'-0" 3-SPAN CONCRETE SLAB BRIDGE
BENT PLAN & ELEVATION
 DATE MARCH, 2020
 CHECKED BY ZZJ
 DESIGNED BY MJK
 COUNTY SALINE
 HWY. NO. -
 REF. POST. -
 STA. 108+65.50
 LOCATION TUXEDO PARK ROAD
 SKEW 0°
 ROADWAY 24'-0"
 DESIGN LIVE LOAD HL-93
 NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION

NEBRASKA
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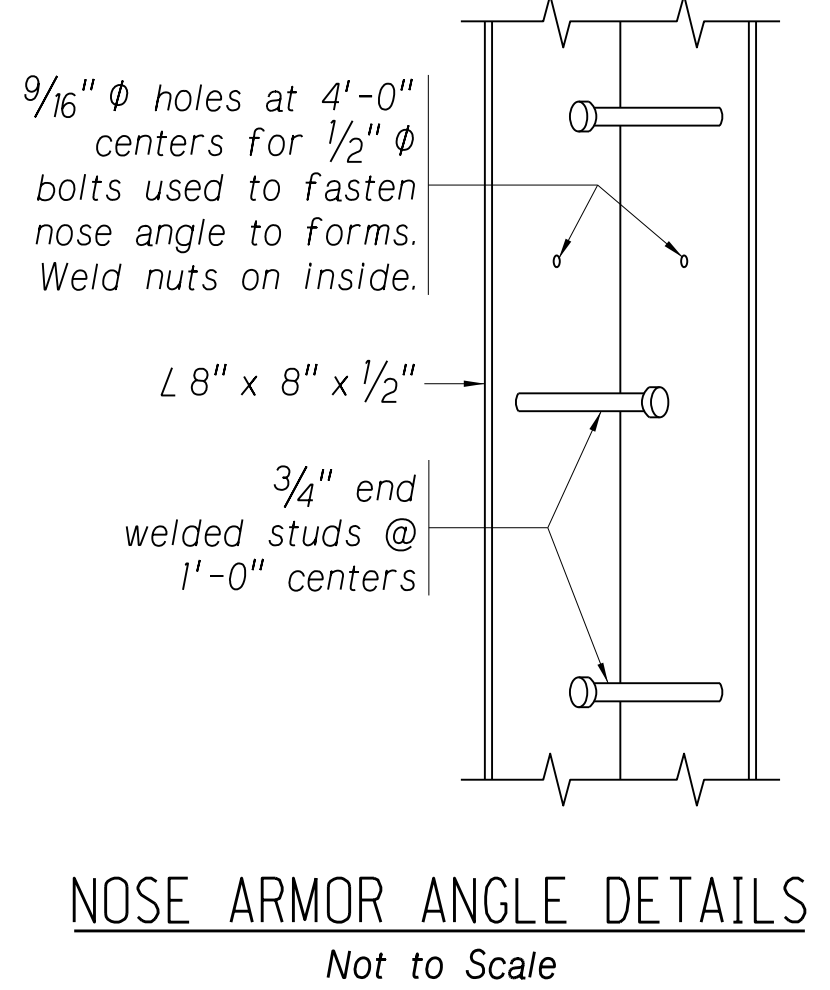
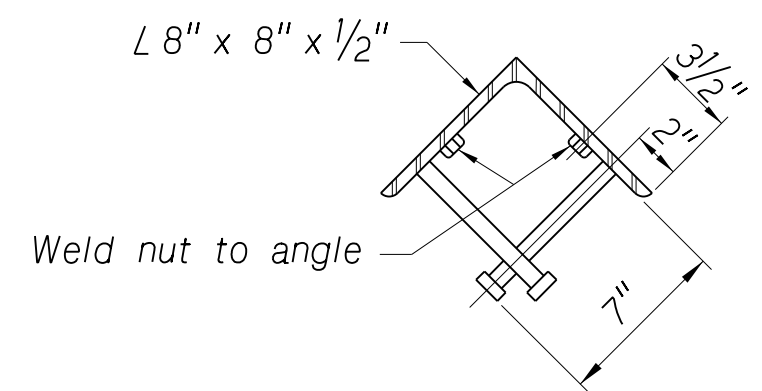
B I L L O F B A R S

MARK	NO.	LENGTH	TYPE	"A"	"B"	"C"	"D"	"E"	"F"	PIN	HOOK	WEIGHT LB
B501	12	36'-8"	Str.									459
B502	50	37'-7" AV.	Str.									1,960
B503	50	7'-10"	122	2'-6"	1'-5"	1'-5"	1'-0"	1'-0"		2 1/2"		409
B504	70	25'-10"	111		25'-3"					3 3/4"	7"	1,886
B505	12	10'-3" AV.	Str.									128
B506	6	26'-0"	Str.									163
B401	38	10'-9"	107	2'-6"	2'-6"					2"	4 1/2"	273
B402	37	7'-6"	103	2'-6"	2'-6"	2'-6"				2"		185
B403	76	2'-6"	Str.									127
B404	224	2'-9"	113		2'-0"					2"	4 1/2"	411
SUBTOTAL =												6,001 LB
B501	12	36'-8"	Str.									459
B502	50	37'-7" AV.	Str.									1,960
B503	50	7'-10"	122	2'-6"	1'-5"	1'-5"	1'-0"	1'-0"		2 1/2"		409
B504	70	25'-10"	111		25'-3"					3 3/4"	7"	1,886
B505	12	10'-3" AV.	Str.									128
B506	6	26'-0"	Str.									163
B401	38	10'-9"	107	2'-6"	2'-6"					2"	4 1/2"	273
B402	37	7'-6"	103	2'-6"	2'-6"	2'-6"				2"		185
B403	76	2'-6"	Str.									127
B404	224	2'-9"	113		2'-0"					2"	4 1/2"	411
SUBTOTAL =												6,001 LB
TOTAL =												12,002 LB

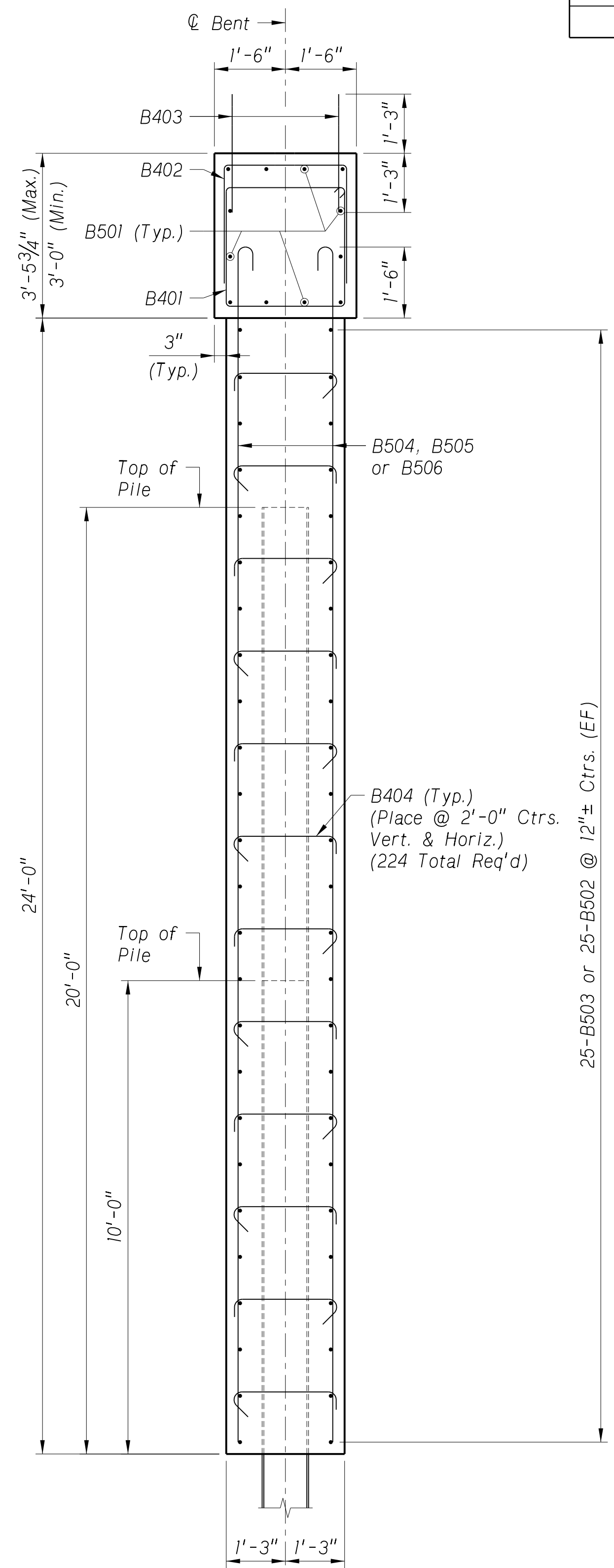
NOTE: FOR BENDING DIAGRAMS, HOOK LENGTHS & PIN DIAMETERS SEE SHEET 20 OF 20.

MARK	MAX LENGTH	MIN LENGTH	NO. OF SETS	BARS PER SET
B502	40'-6"	34'-8"	2	25
B505	18'-3"	2'-3"	4	3

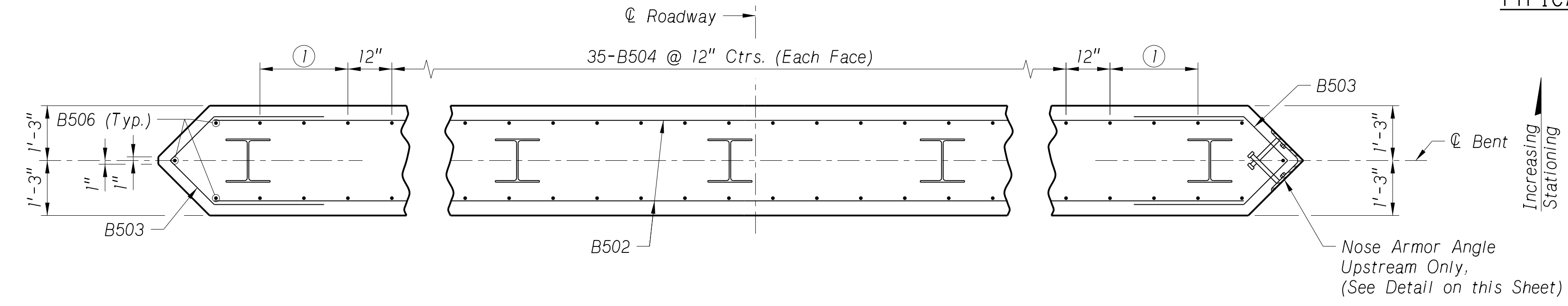
MARK	MAX LENGTH	MIN LENGTH	NO. OF SETS	BARS PER SET
B502	40'-6"	34'-8"	2	25
B505	18'-3"	2'-3"	4	3



NOSE ARMOR ANGLE DETAILS
Not to Scale



TYPICAL SECTION OF BENT
Scale: 1/2" = 1'-0"



PARTIAL SECTION OF BENT WALL
Not to Scale

PROJECT NUMBER	SHEET NO.
7076(24)	59

C.N. 13361
STRUCTURE NUMBER
U062044305



BRIDGE ENGINEER

125'-0" 3-SPAN CONCRETE SLAB BRIDGE
BENT DETAILS & BILL OF BARS
DATE MARCH, 2020
CHECKED BY ZZJ
DESIGNED BY MJK
NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION
COUNTY SALINE
HWY. NO. 24
REF. POST. -
STA. 108+65.50
LOCATION TUXEDO PARK ROAD
SKEW 0°
ROADWAY 24'-0"
DESIGN LIVE LOAD HL-93
DATE MARCH, 2020

NEBRASKA
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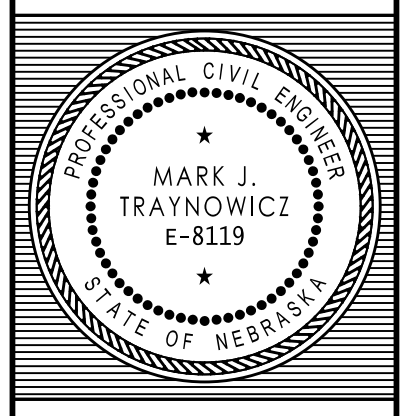
NOTES:
① 3-B505 @ 12" Ctrs. (EF)



SPECIAL PLAN NO.	9
1	20

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C.N. 13361
STRUCTURE NUMBER
 U062044305



BRIDGE ENGINEER

125'-0" 3-SPAN CONCRETE SLAB BRIDGE
 REINFORCING LAYOUT IN TOP OF SLAB

LOCATION TUXEDO PARK ROAD
SKW 0°
ROADWAY 24'-0"
DESIGN LIVE LOAD HL-93
DATE MARCH, 2020

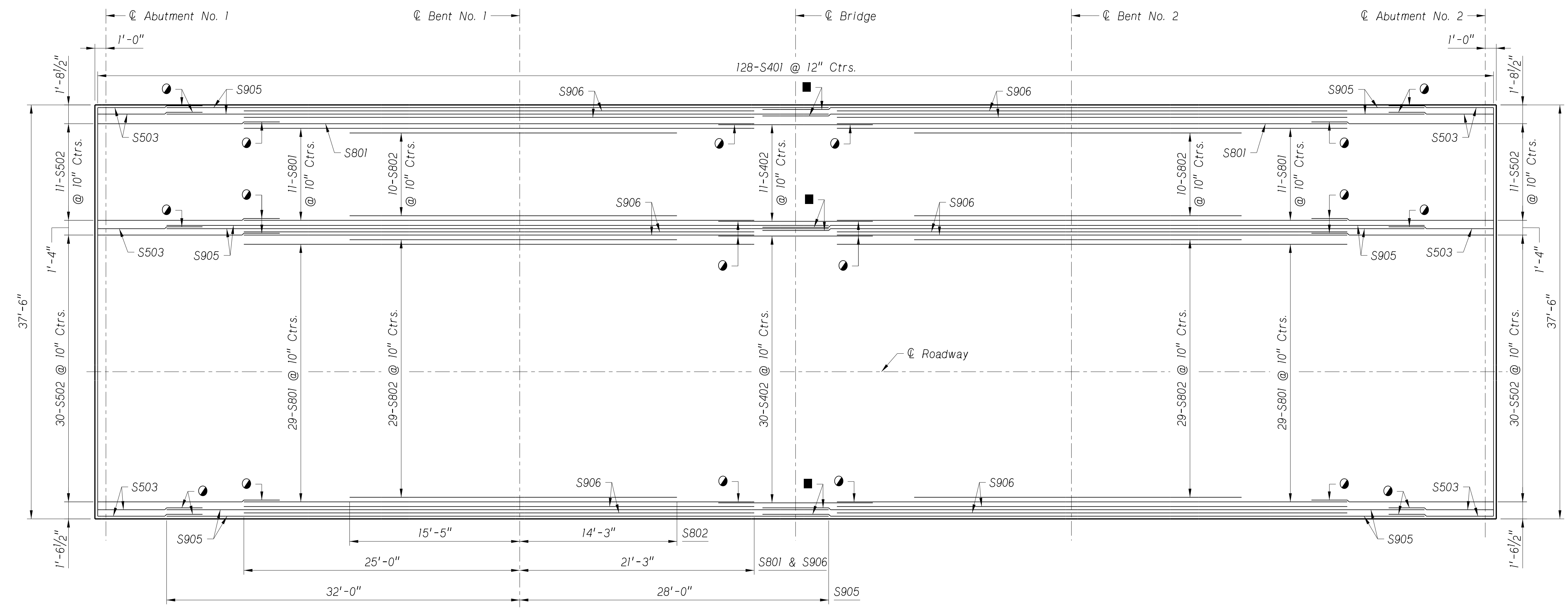
CHECKED BY MJK
DESIGNED BY ZZJ

NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION

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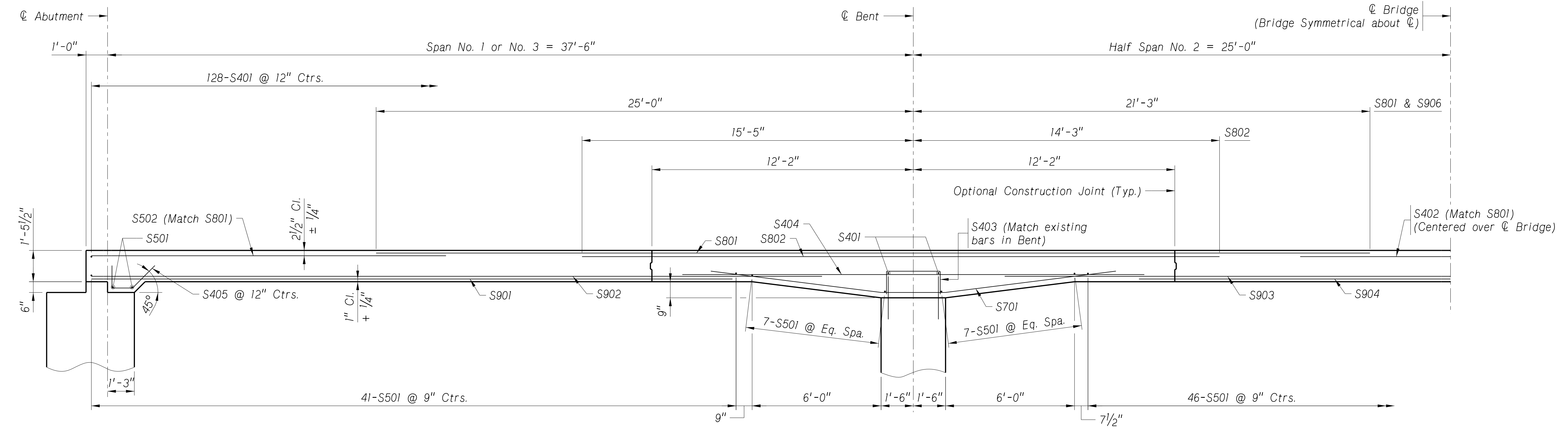
SPECIAL PLAN NO.	10
	20



NOTES:
 Dimensions are symmetrical about C Bridge.

- 3'-3" Lap
- 6'-0" Lap

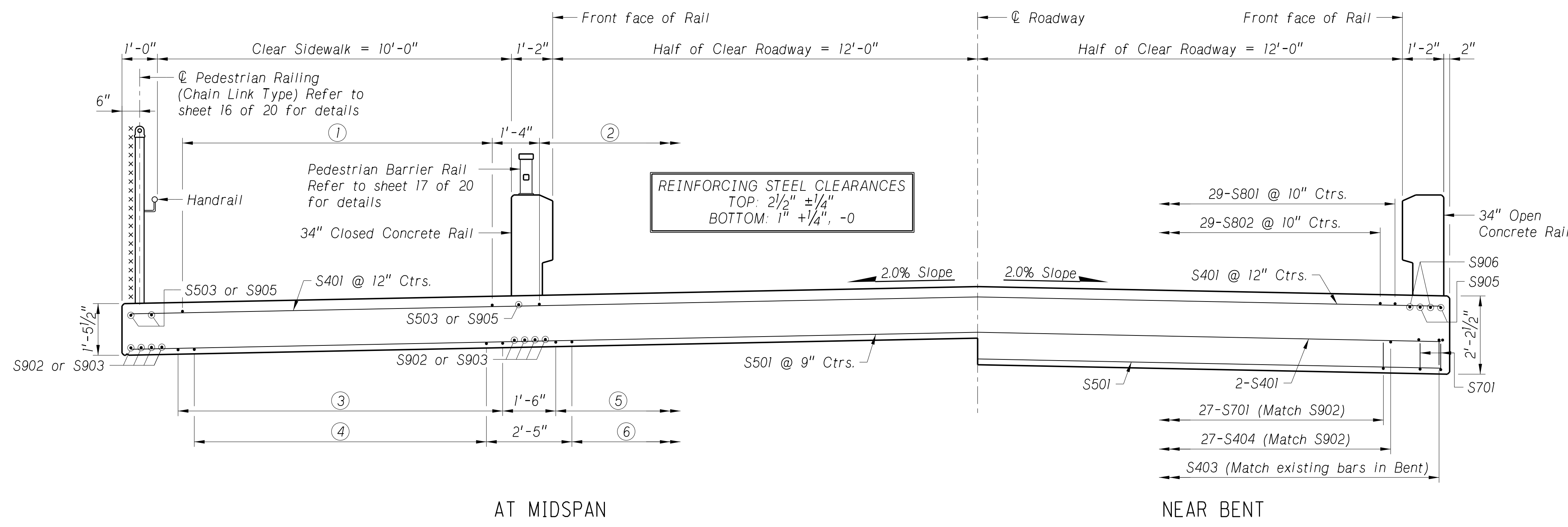
TOP OF SLAB REINFORCING LAYOUT
 Scale: $\frac{3}{16}'' = 1'-0''$



LONGITUDINAL SECTION
 Scale: $\frac{3}{8}'' = 1'-0''$



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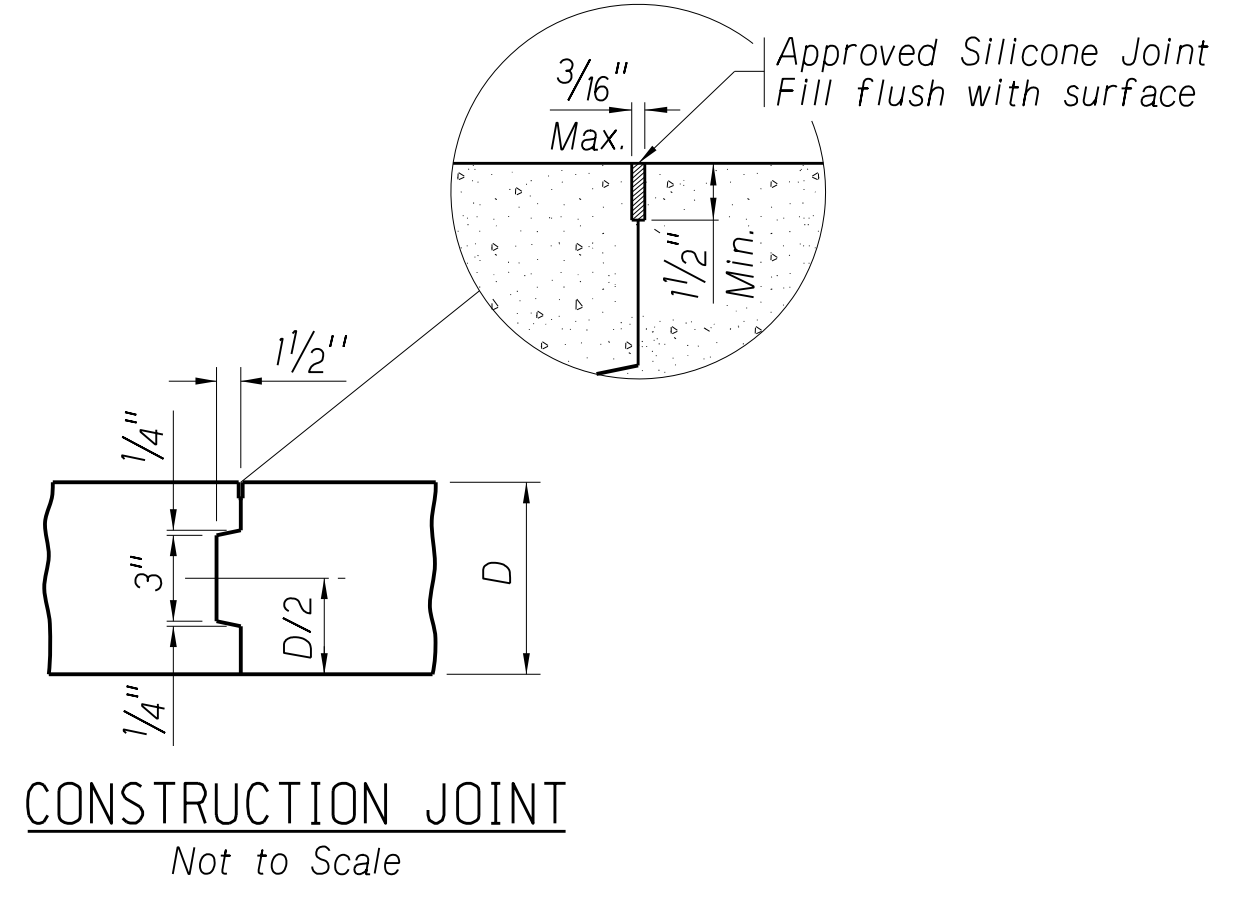
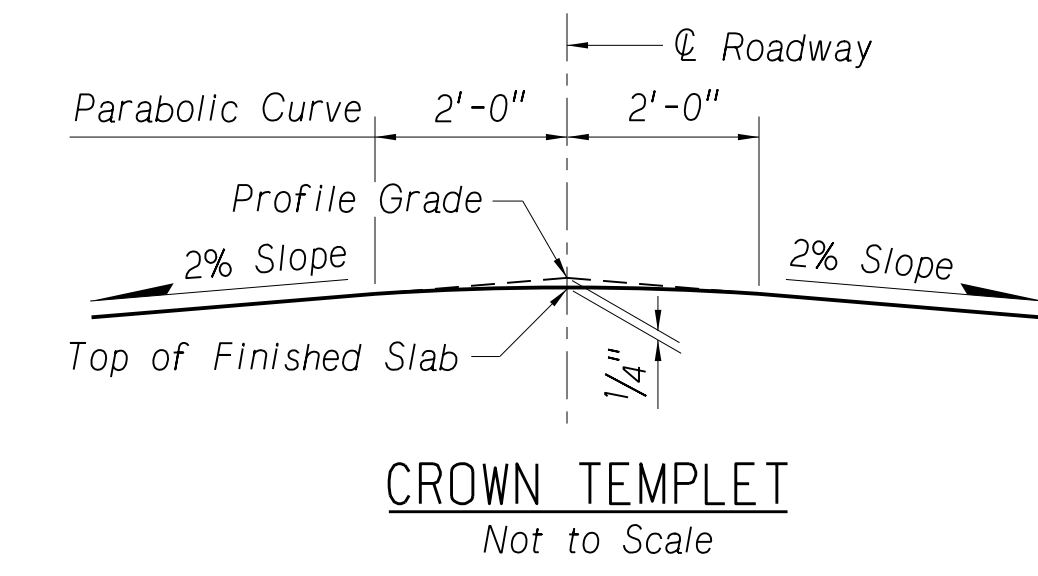
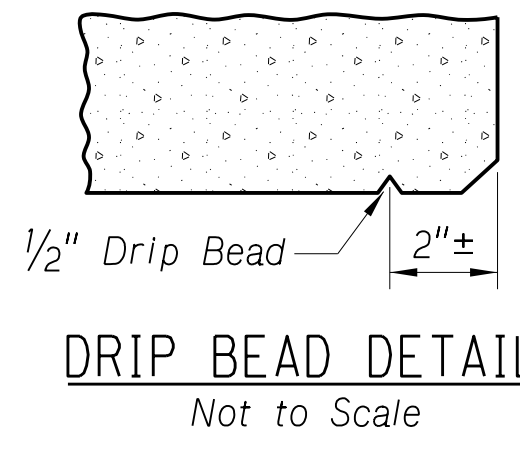
- ① 11-S502 @ 10" Ctrs. (Span 1&3)
11-S402 @ 10" Ctrs. (Span 2)
- ② 30-S502 @ 10" Ctrs. (Span 1&3)
30-S402 @ 10" Ctrs. (Span 2)
- ③ 11-S901 @ 11" Ctrs. (Span 1&3)
11-S904 @ 11" Ctrs. (Span 2)
- ④ 10-S902 @ 11" Ctrs. (Span 1&3)
10-S903 @ 11" Ctrs. (Span 2)
- ⑤ 27-S901 @ 11" Ctrs. (Span 1&3)
27-S904 @ 11" Ctrs. (Span 2)
- ⑥ 26-S902 @ 11" Ctrs. (Span 1&3)
26-S903 @ 11" Ctrs. (Span 2)

CROSS SECTION OF ROADWAY
 Scale: 1/2" = 1'-0"

SLAB BILL OF BARS

MARK	NO.	LENGTH	TYPE	"A"	"B"	"C"	"D"	"E"	"F"	PIN	HOOK	WEIGHT LBS
S901	76	29'-10"	Str.									7,709
S902	96	34'-0"	Str.									11,098
S903	48	41'-6"	Str.									6,773
S904	38	29'-0"	Str.									3,747
S905	12	60'-0"	Str.									2,448
S906	12	46'-3"	Str.									1,887
S801	82	46'-3"	Str.									10,126
S802	78	29'-8"	Str.									6,178
S701	86	19'-0"	106	8'-0"	3'-0"	1'-0"	1'-0"	8'-0"		5/4"		3,340
S501	160	37'-0"	Str.									6,175
S502	82	16'-6"	Str.									1,411
S503	10	9'-6"	Str.									99
S401	132	37'-0"	Str.									3,263
S402	41	14'-0"	Str.									383
S403	86	4'-6"	103	1'-0"	2'-6"	1'-0"				2"		259
S404	86	21'-6"	Str.									1,235
S405	76	4'-3"	119	1'-0"	1'-4"	1'-11"		1'-4"		2"		216
SUBTOTAL = 66,347 LBS												
S690	72	7'-0"	104	3'-10"	3'-2"					4 1/2"		757
S591	128	5'-10"	104	2'-11"	2'-11"					3 3/4"		779
S592	128	7'-0"	104	3'-10"	3'-2"					3 3/4"		935
S593	18	131'-6"	Str.	Includes 2 ~ 2'-6" Laps								2,469
S492	72	5'-10"	104	2'-11"	2'-11"					3"		281
S390	90	4'-8"	130	1'-1 1/2"	0'-6 1/2"	1'-6"	0'-5"	0'-5"	0'-4 1/2"	1 1/2"	4"	158
S391	192	5'-2"	107	1'-5"	0'-10"					1 1/2"	4"	373
S392	12	7'-8"	130	2'-7 1/2"	0'-6 1/2"	3'-0"	0'-5"	0'-5"	0'-4 1/2"	1 1/2"	4"	35
SUBTOTAL = 5,787 LBS												
TOTAL = 72,134 LBS												

NOTE: FOR PIN DIAMETERS, HOOK LENGTHS & BENDING DIAGRAMS SEE SHEET 20 OF 20.



The Contractor shall prepare and seal the joint according to the manufacturer's recommendation. Before sealing the joint wall surfaces shall be sandblasted to remove any deleterious material. After sandblasting the entire joint shall be cleaned with compressed air having a minimum pressure of 90 psi. The compressed air shall be free of any contaminants. The joint shall be dry at the time of sealing.

THE NUMBER OF LAP SPLICES ARE CALCULATED BASED ON 60'-0" LENGTHS OF REINFORCING STEEL BARS. SPLICES ON BARS SHORTER THAN 60'-0" WILL REQUIRE ADDITIONAL LAP SPLICES AT NO ADDITIONAL EXPENSE TO NDOT.

C.N. 13361
 STRUCTURE NUMBER
 U062044305



BRIDGE ENGINEER

125'-0" 3-SPAN CONCRETE SLAB BRIDGE
 CROSS SECTION OF ROADWAY & BILL OF BARS
 DATE MARCH, 2020
 CHECKED BY MJK
 COUNTY SALINE
 HWY. NO. -
 ROADWAY 24'-0"
 DESIGN LIVE LOAD HL-93
 TUXEDO PARK ROAD
 SKEW 0°
 NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION

NEBRASKA
 Good Life. Great Journey.
 DEPARTMENT OF TRANSPORTATION



SPECIAL PLAN NO. 12/20
 1




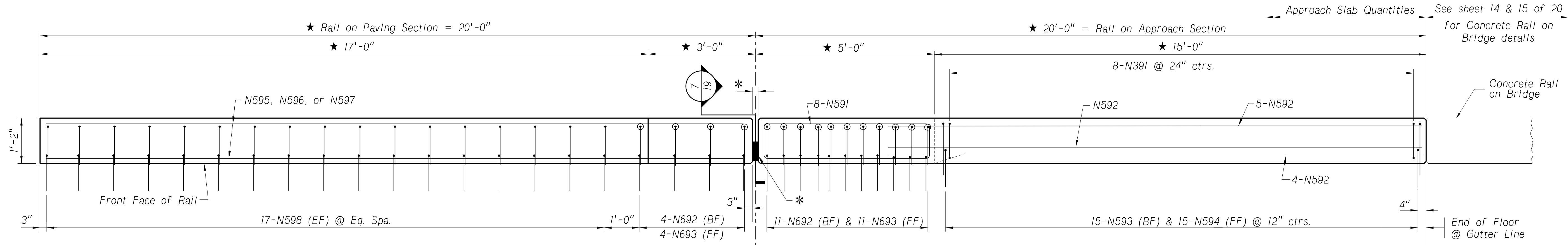
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C.N. 13361
 STRUCTURE NUMBER U062044305

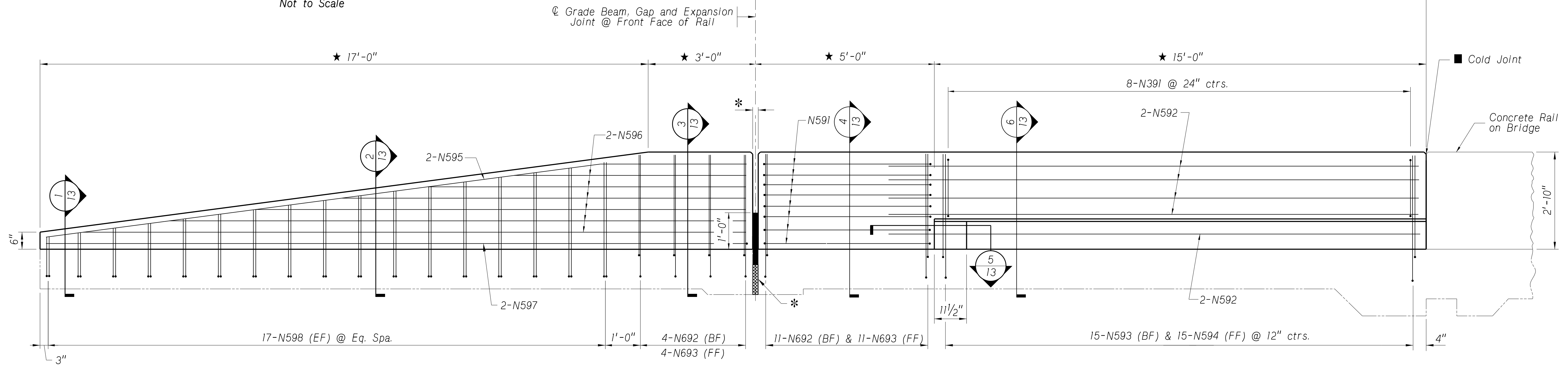
 BRIDGE ENGINEER

125'-0" 3-SPAN CONCRETE SLAB BRIDGE
 CONCRETE RAIL ON APPROACH SLABS
 LOCATION TUXEDO PARK ROAD
 COUNTY SALINE
 HWY. NO. 24
 REF. POST. -
 STA. 108+65.50
 DESIGN LIVE LOAD HL-93
 DATE MARCH, 2020
 CHECKED BY MJK
 NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION

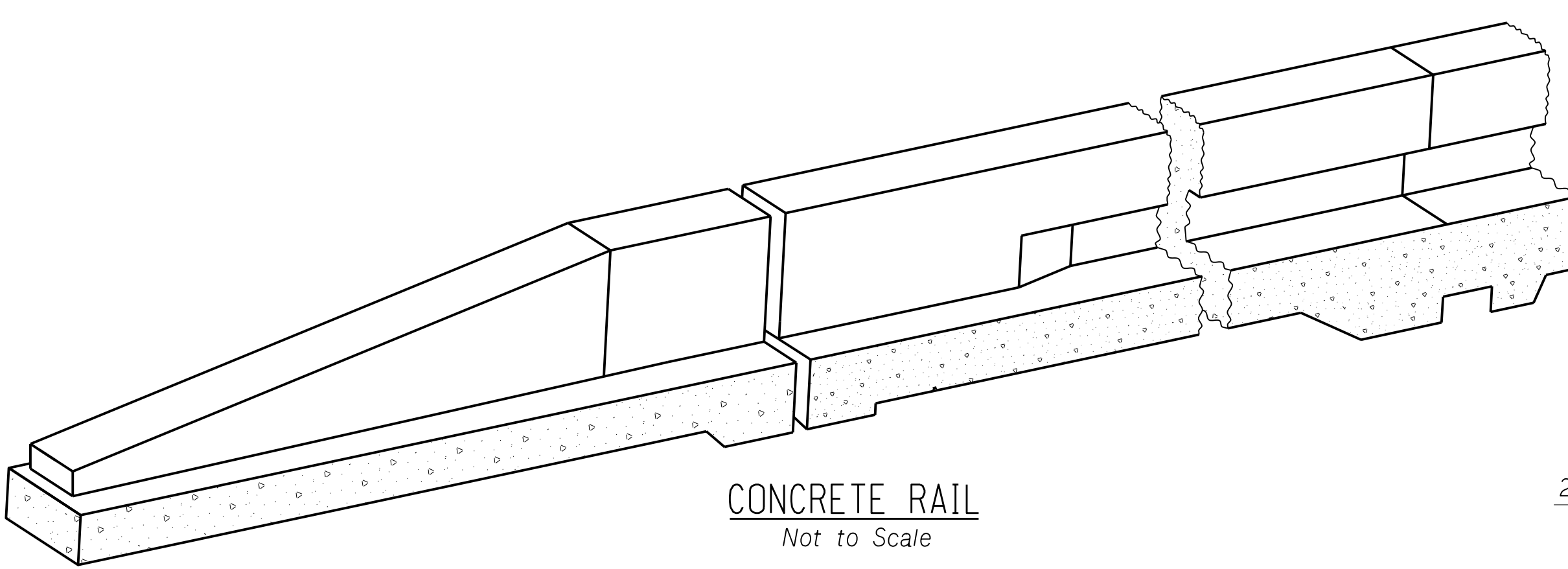
NEBRASKA
 Good Life. Great Journey.
 DEPARTMENT OF TRANSPORTATION




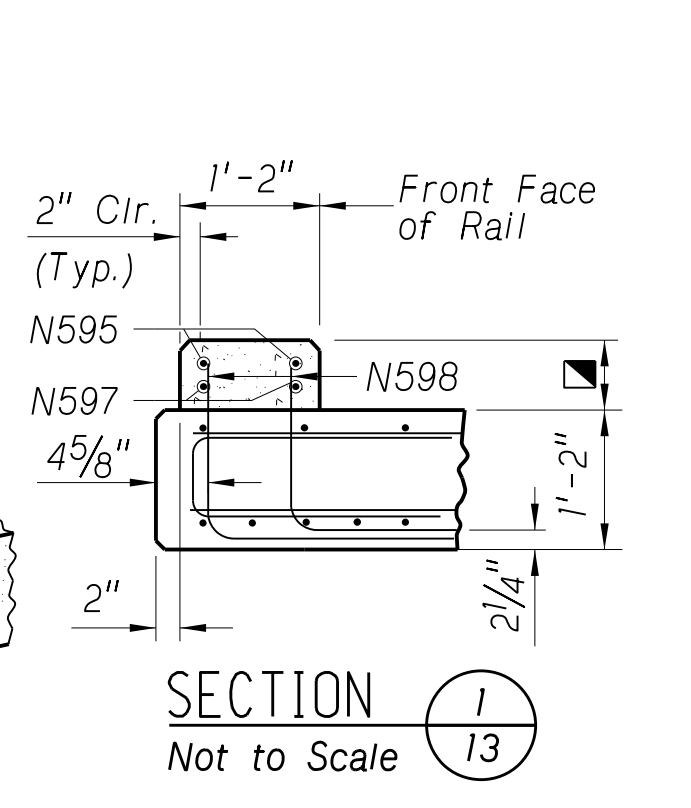
PLAN OF CLOSED CONCRETE RAIL ON APPROACH SLABS
 Not to Scale



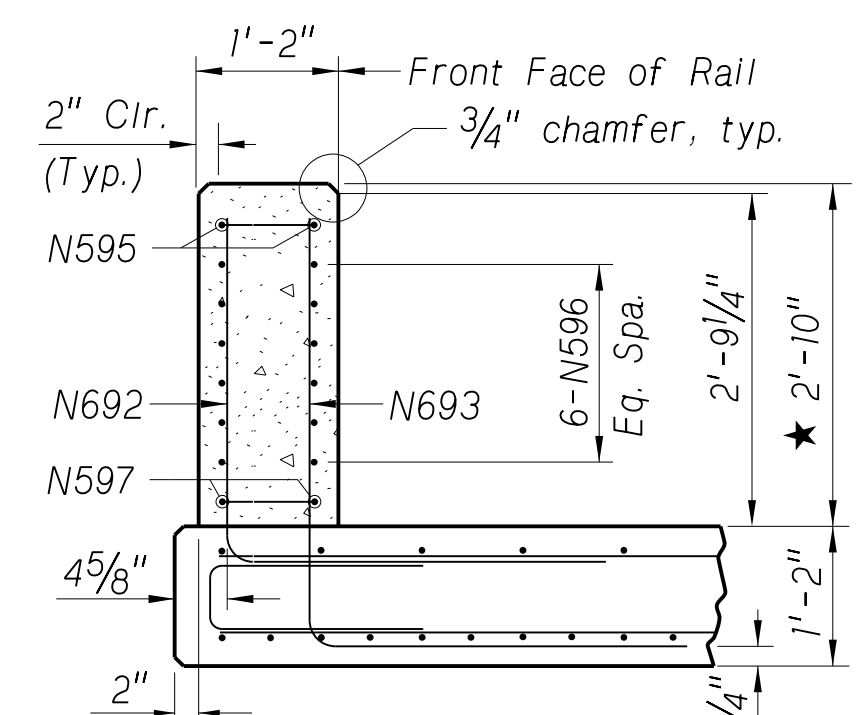
ELEVATION OF CLOSED CONCRETE RAIL ON APPROACH SLABS
 Not to Scale



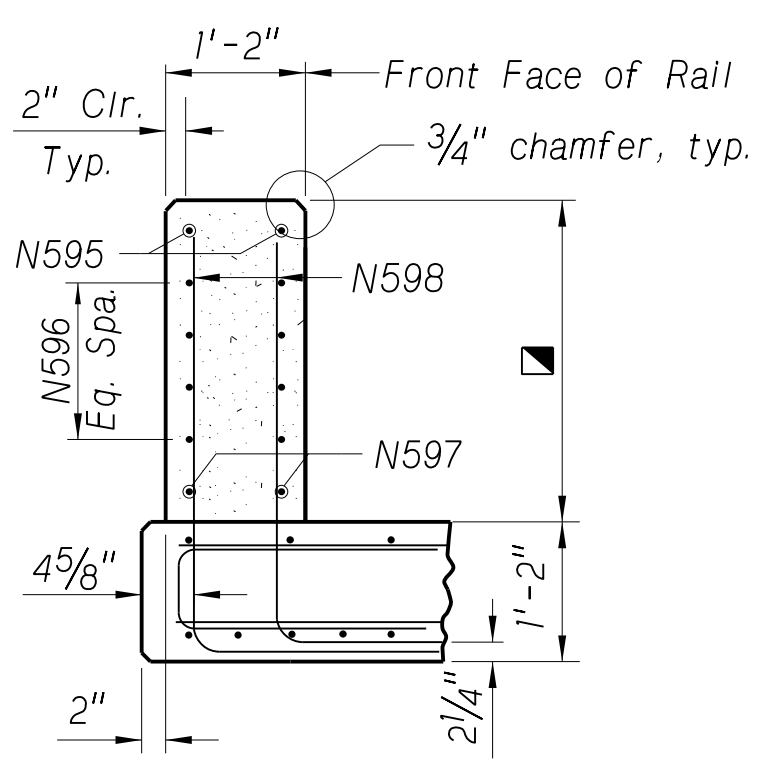
CONCRETE RAIL
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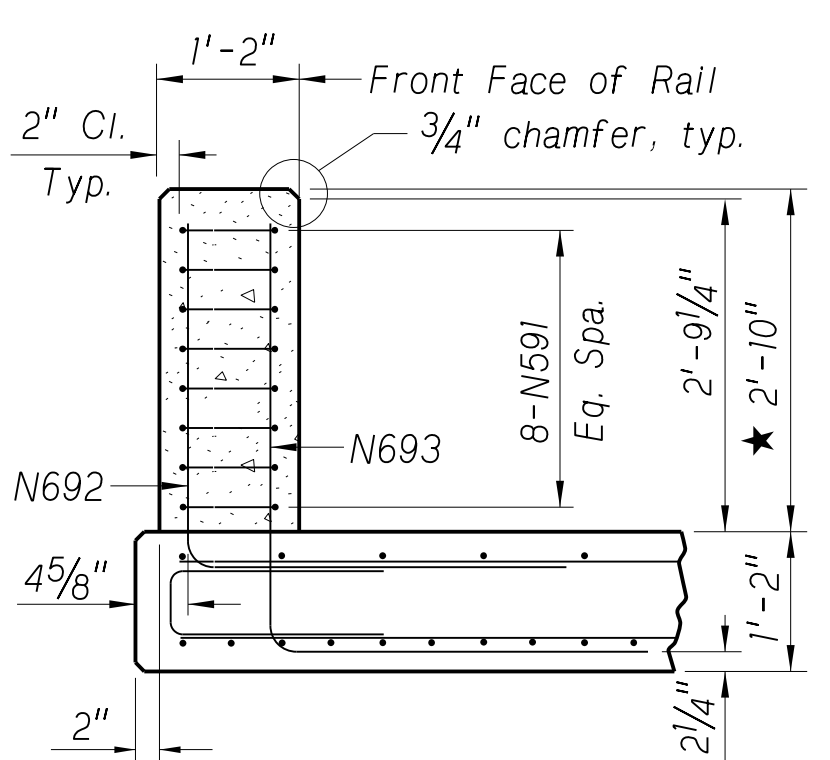
SECTION 1
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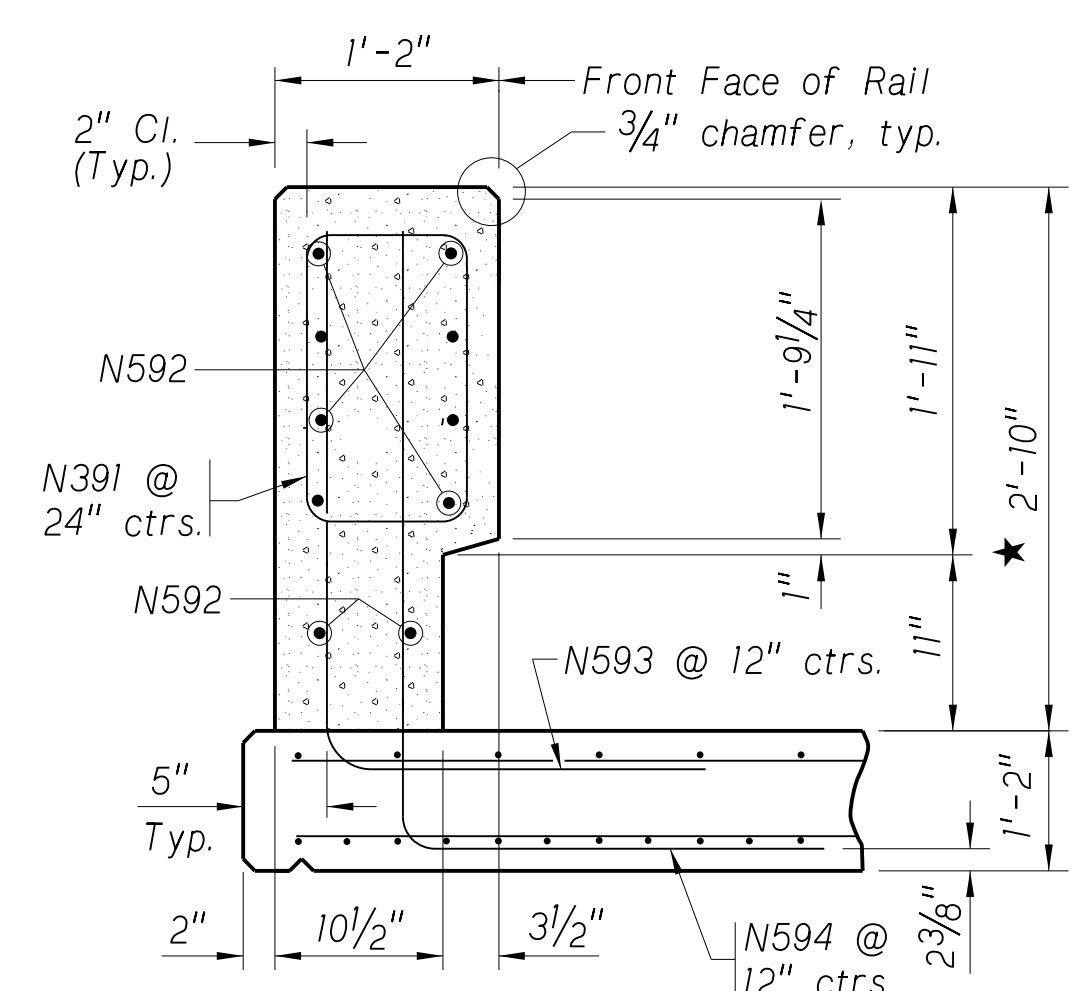
SECTION 3
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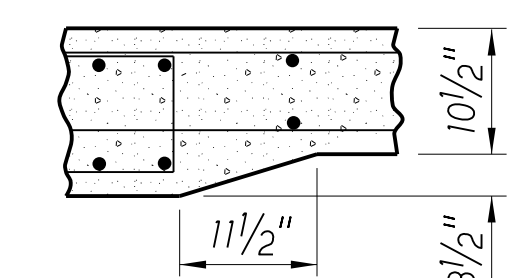
SECTION 2
 Not to Scale



SECTION 4
 Not to Scale



SECTION 6
 Scale: 1" = 1'-0"



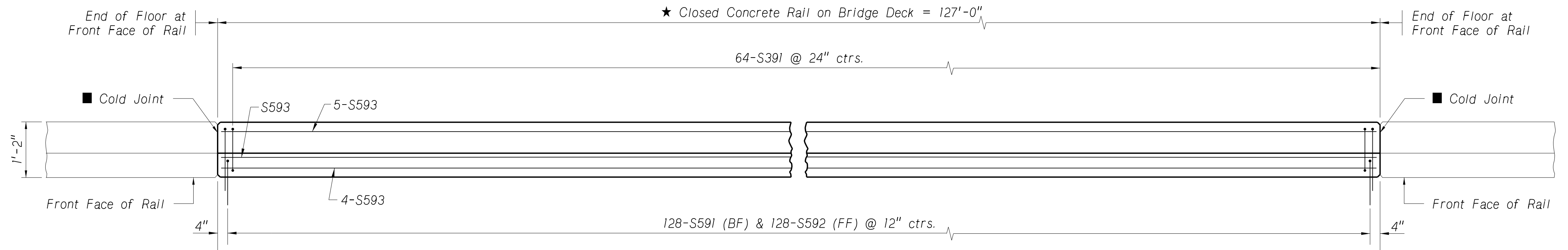
SECTION 5
 Scale: 3/4" = 1'-0"

- NOTES
- Varies (6" Min, 2'-10" Max)
 - Circled bars indicate placement in the top layer of slab reinforcement.
 - ★ Measured at front face of rail. Concrete Rail will be built plumb.

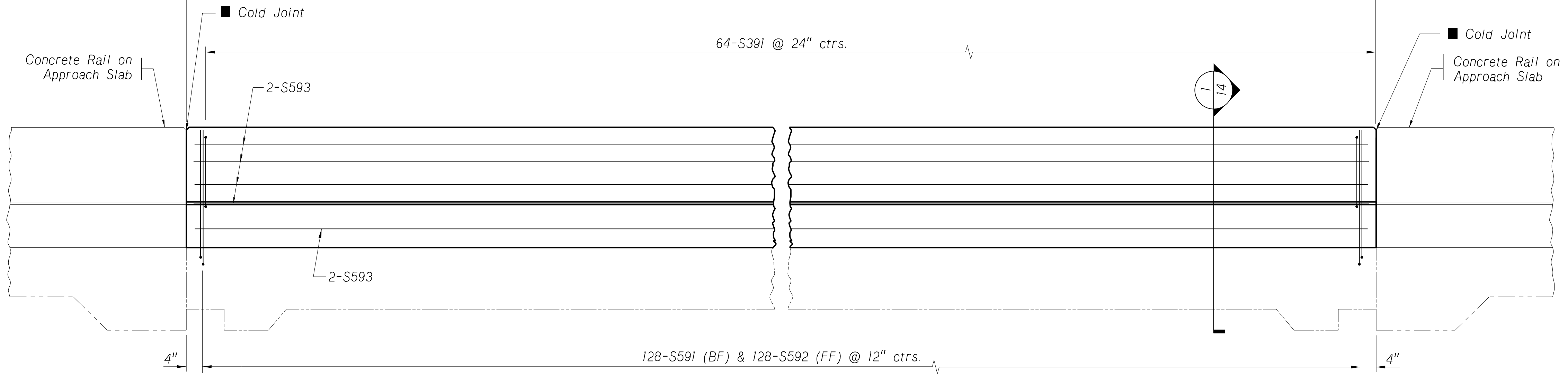
- * Joint material and opening width shall match what is shown on Approach Slab Details sheet, see sheet 19 of 20.
 - When pouring concrete rails, a mandatory chamfered cold joint must be formed at the end of floor.
- For Rail Bill of Bars on Approach Slab see sheet 20 of 20.
 (EF) = Each Face (FF) = Front Face (BF) = Back Face



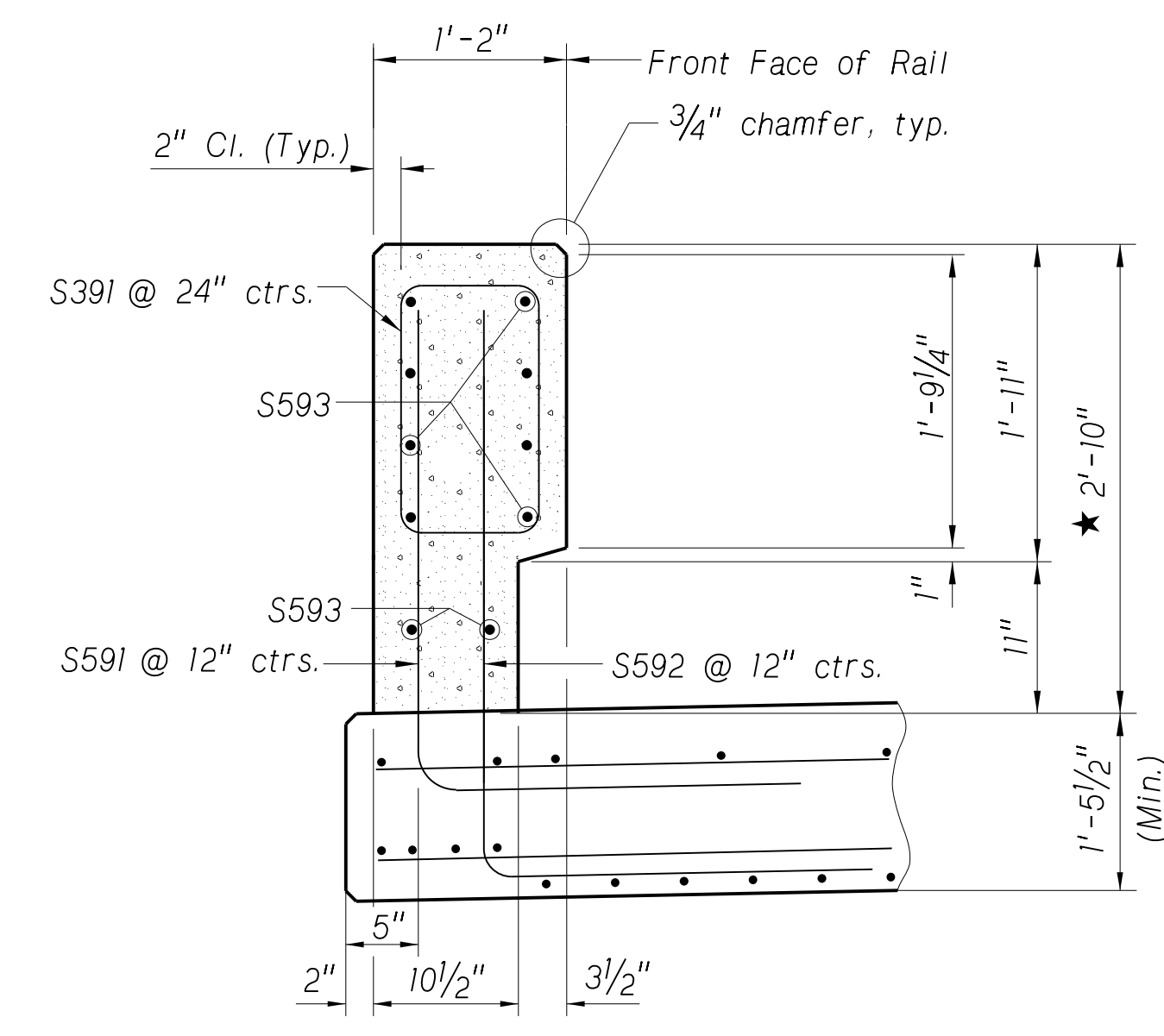
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PLAN OF CLOSED CONCRETE RAIL ON BRIDGE
 Not to Scale



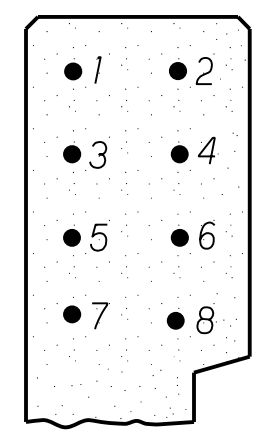
ELEVATION OF CLOSED CONCRETE RAIL ON BRIDGE
 Not to Scale



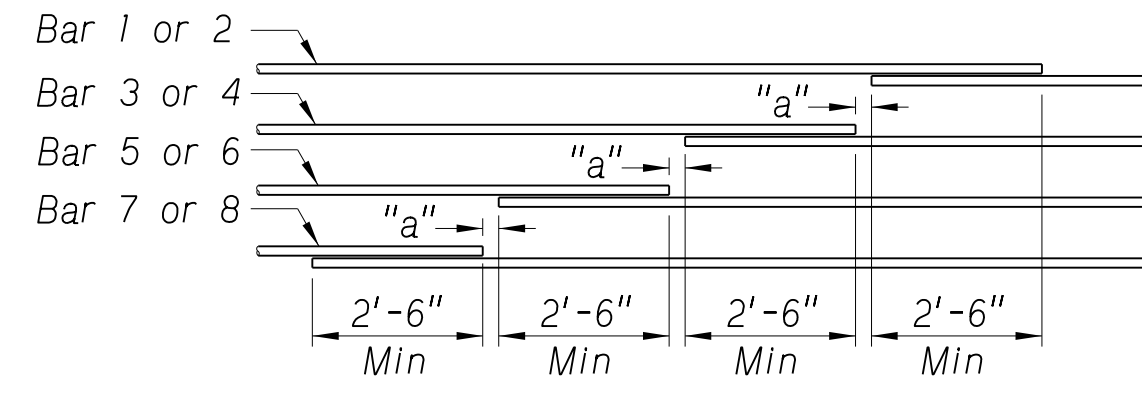
SECTION
 Scale: 1" = 1'-0" 1/14

NOTES

- ★ Measured at front face of rail.
Concrete Rail will be built plumb.
- When pouring concrete rails, a mandatory chamfered cold joint must be formed at the end of floor.
For Rail Bill of Bars on Bridge Deck see sheet 12 of 20.
(EF) = Each Face (FF) = Front Face (BF) = Back Face



RAIL SECTION
 See Lap Detail
 Scale: 1" = 1'-0"



"a" ≥ Zero
LAP DETAIL

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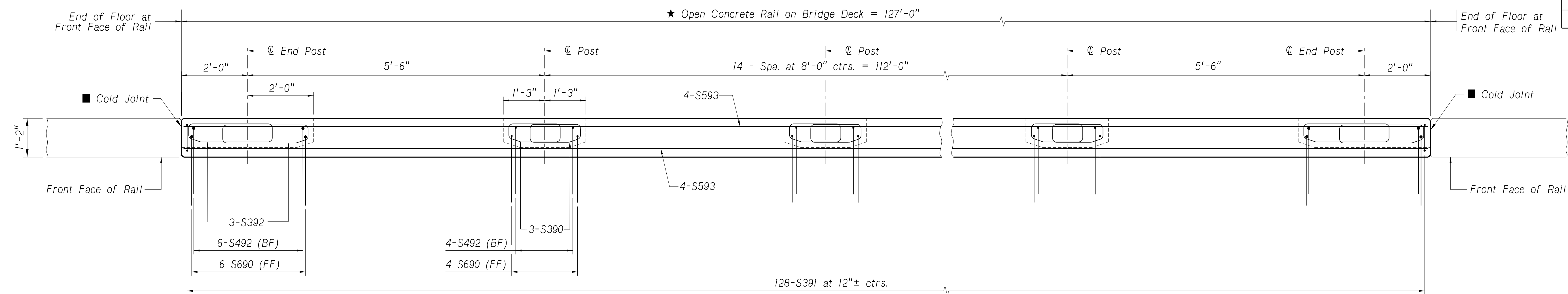
C.N. 13361
 STRUCTURE NUMBER
 U062044305

 BRIDGE ENGINEER

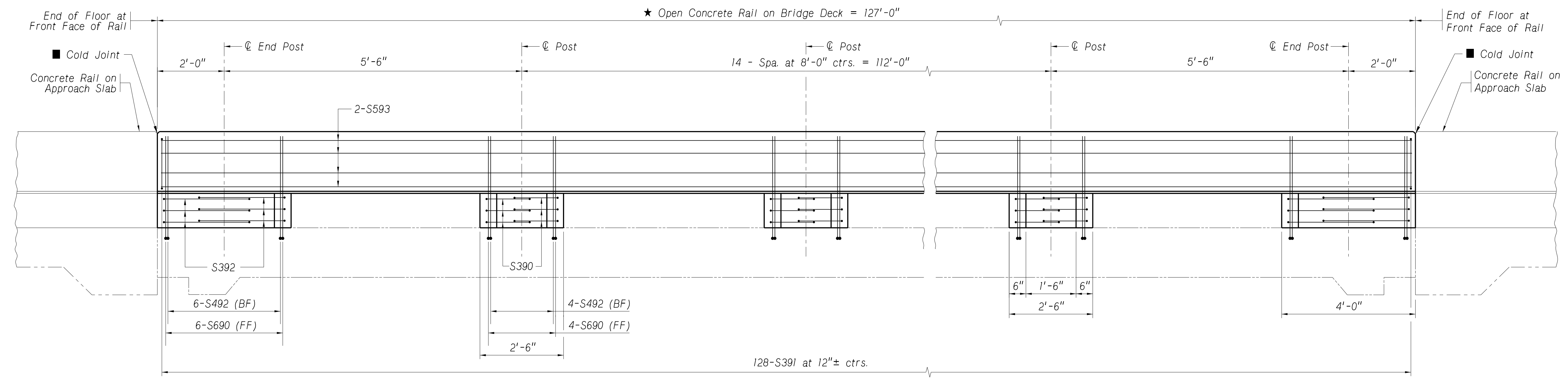
LOCATION TUXEDO PARK ROAD
 COUNTY SALINE
 HWY. NO. -
 REF. POST. -
 STA. 108+65.50
 DESIGNED BY ZZJ
 CHECKED BY MJK
 DATE MARCH, 2020
 125'-0" 3-SPAN CONCRETE SLAB BRIDGE
 CONCRETE RAIL ON BRIDGE (RT. RAIL)
 NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION

NEBRASKA
 Good Life. Great Journey.
 DEPARTMENT OF TRANSPORTATION

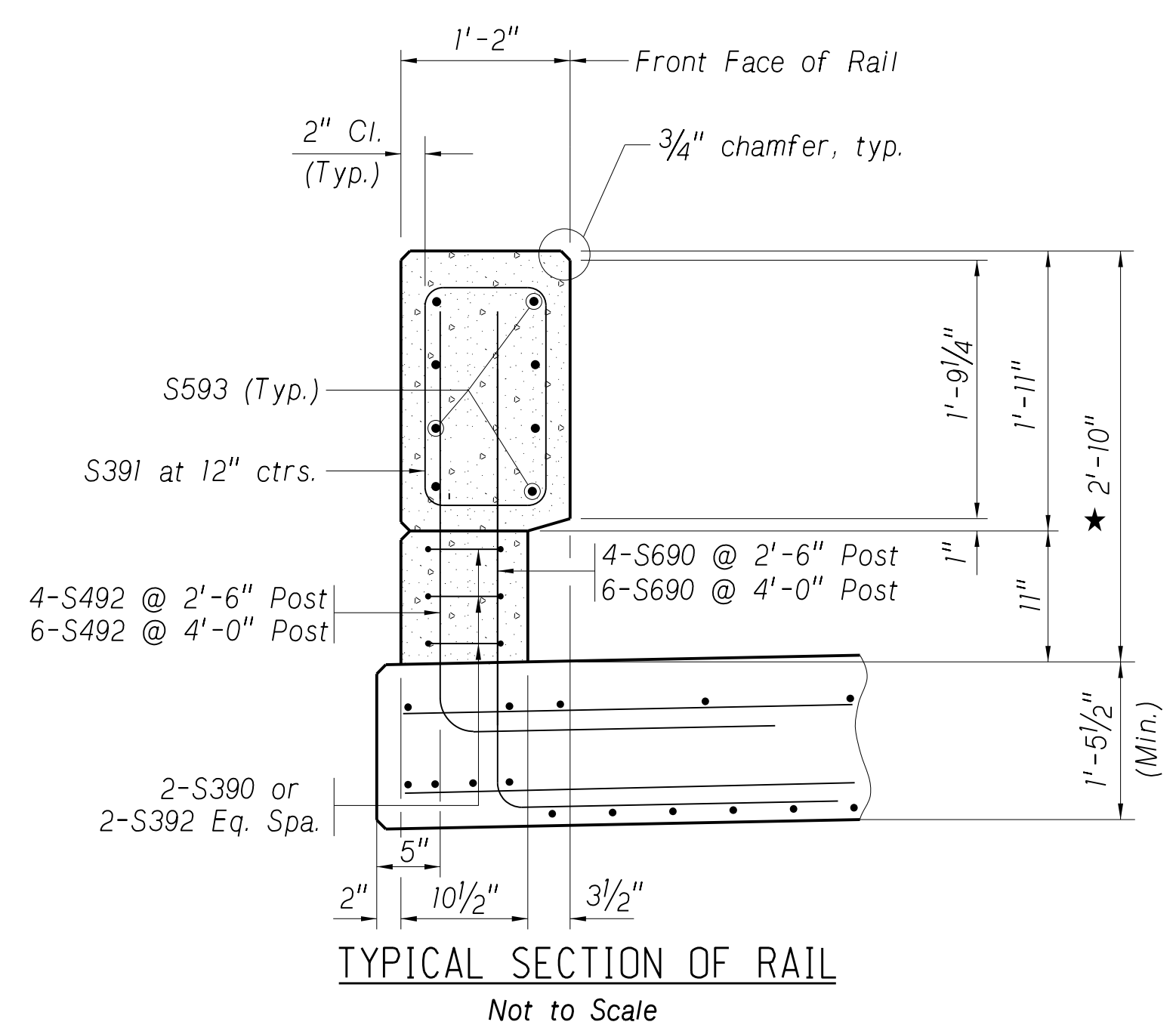
AARON M. BUETTNER
 E-10646
 27 Mar 2020
 STATE OF NEBRASKA



PARTIAL PLAN OF OPEN CONCRETE RAIL ON BRIDGE
 Not to Scale

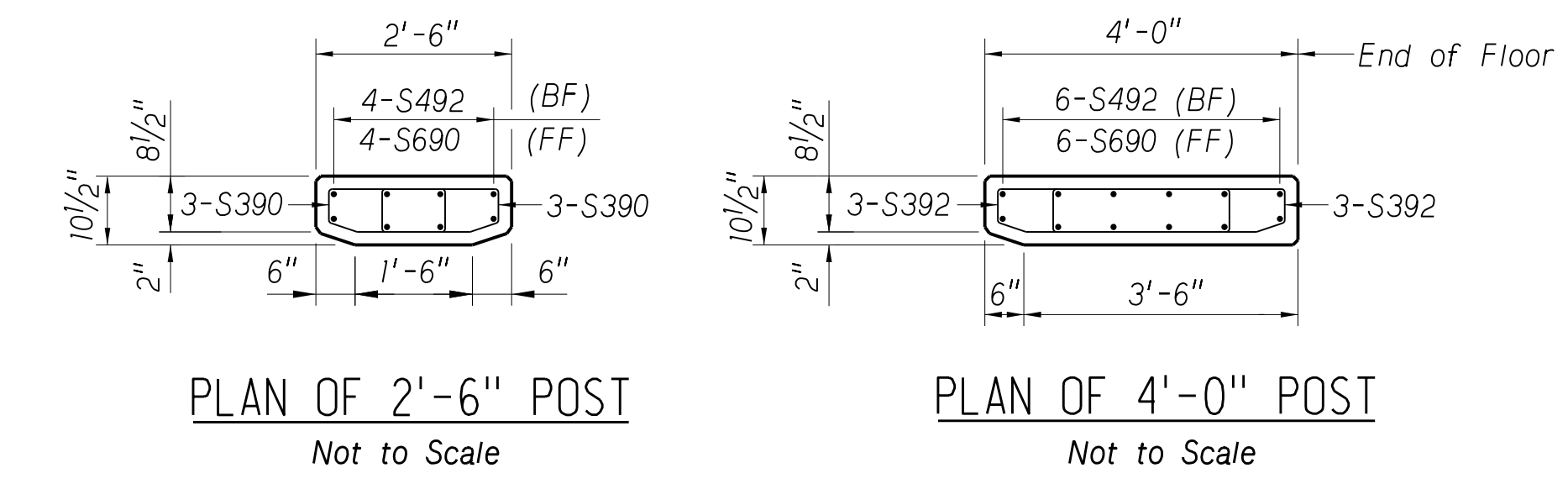


PARTIAL ELEVATION OF OPEN CONCRETE RAIL ON BRIDGE
 Not to Scale



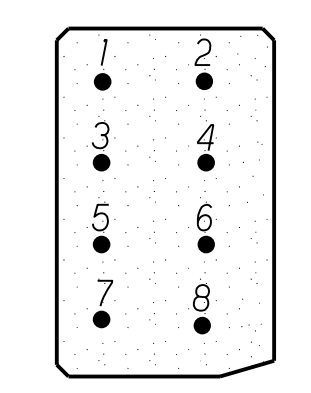
TYPICAL SECTION OF RAIL
 Not to Scale

- NOTES**
- Posts must be plumb.
 - ★ Measured at front face of rail. Concrete rail will be built plumb.
 - When pouring concrete rails, a mandatory chamfered cold joint must be formed at the end of floor.
 - For Rail Bill of Bars on Bridge Deck see sheet 12 of 20.
 - (EF) = Each Face (FF) = Front Face (BF) = Back Face

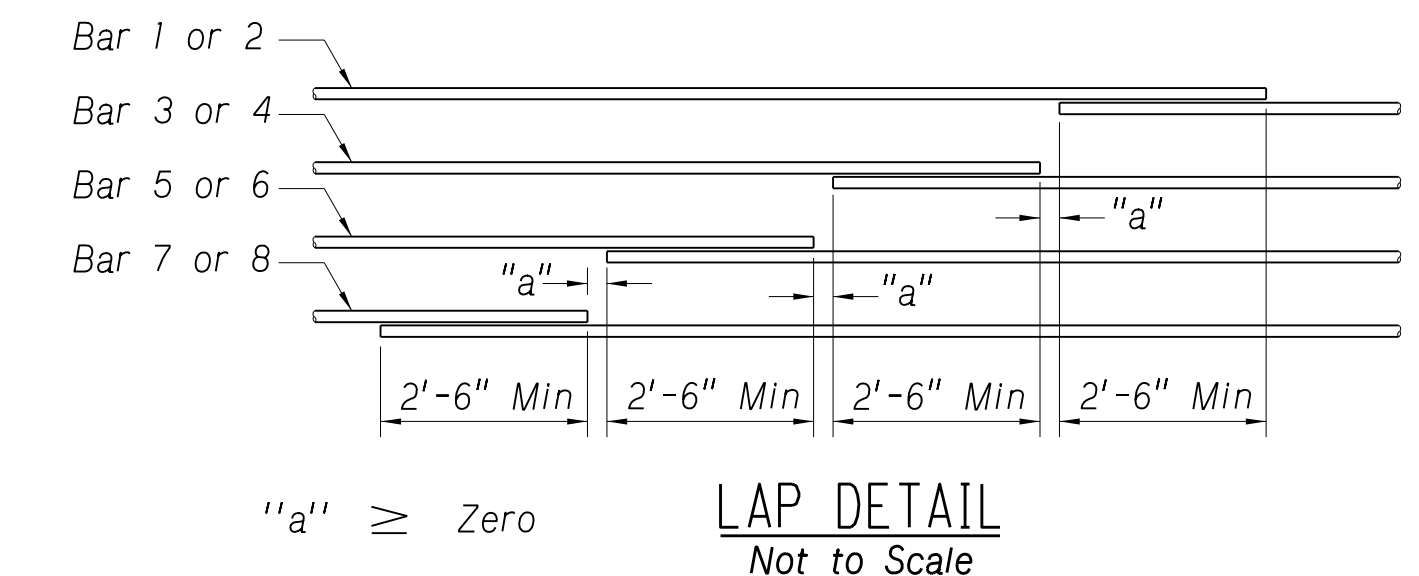


PLAN OF 2'-6" POST
 Not to Scale

PLAN OF 4'-0" POST
 Not to Scale



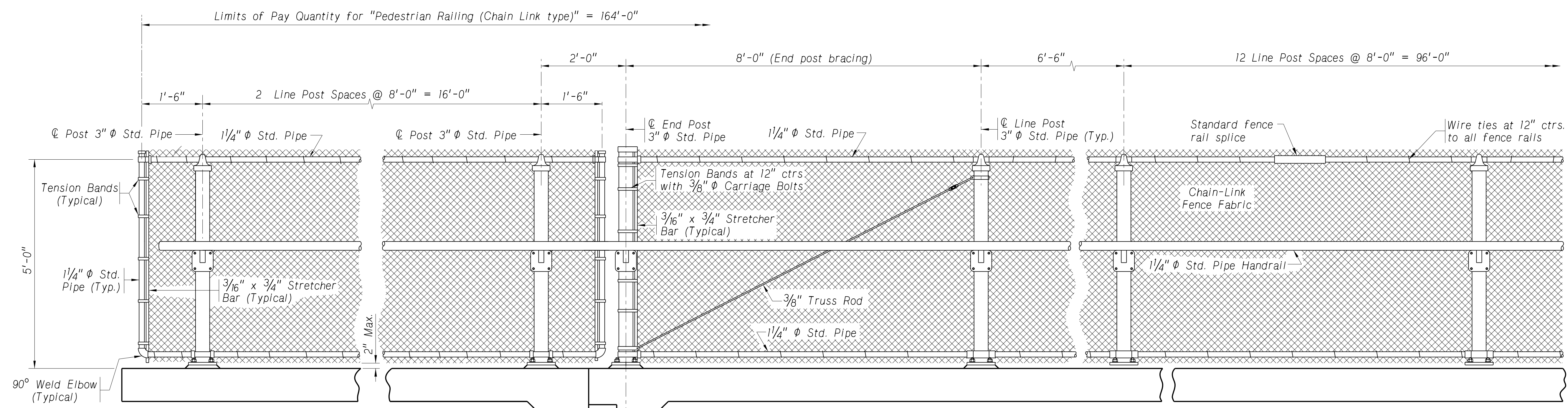
RAIL SECTION
 See Lap Detail
 Not to Scale



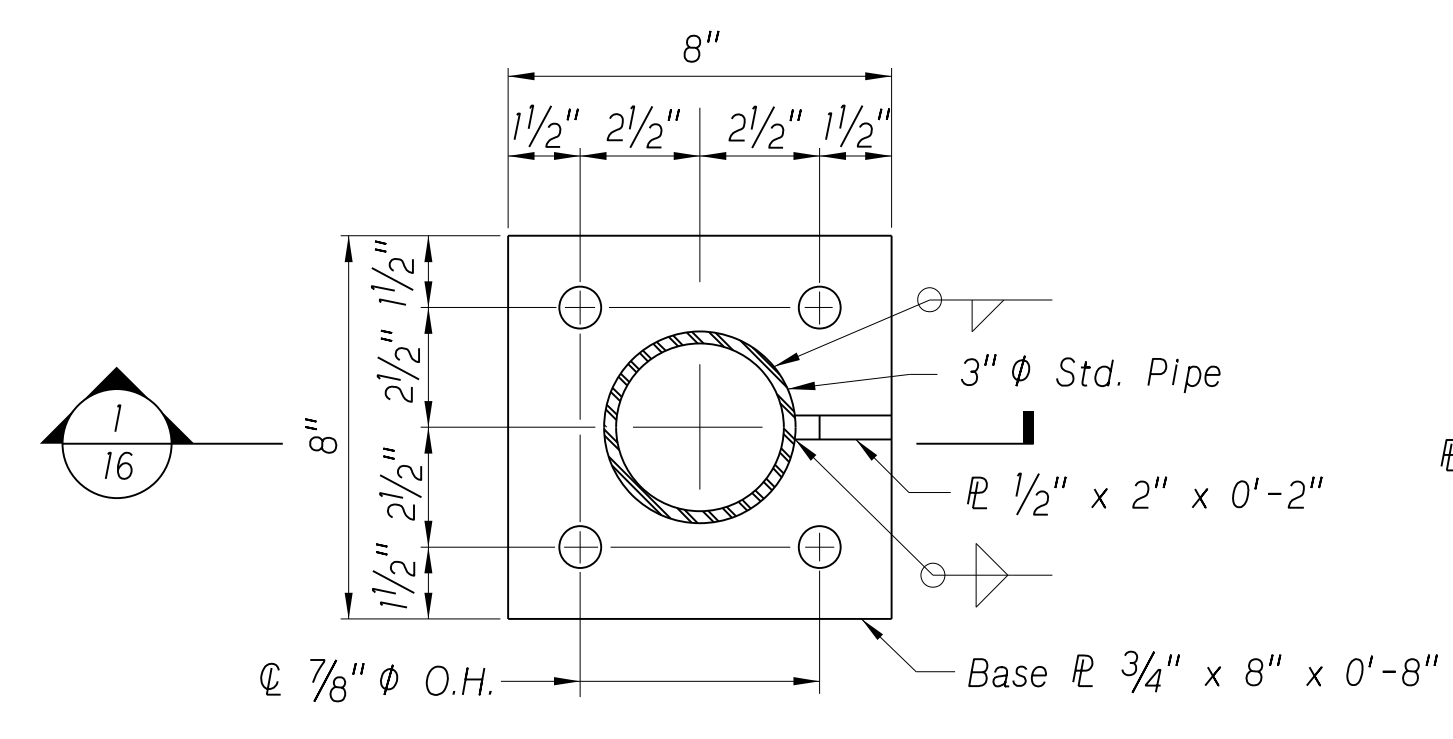
LAP DETAIL
 Not to Scale



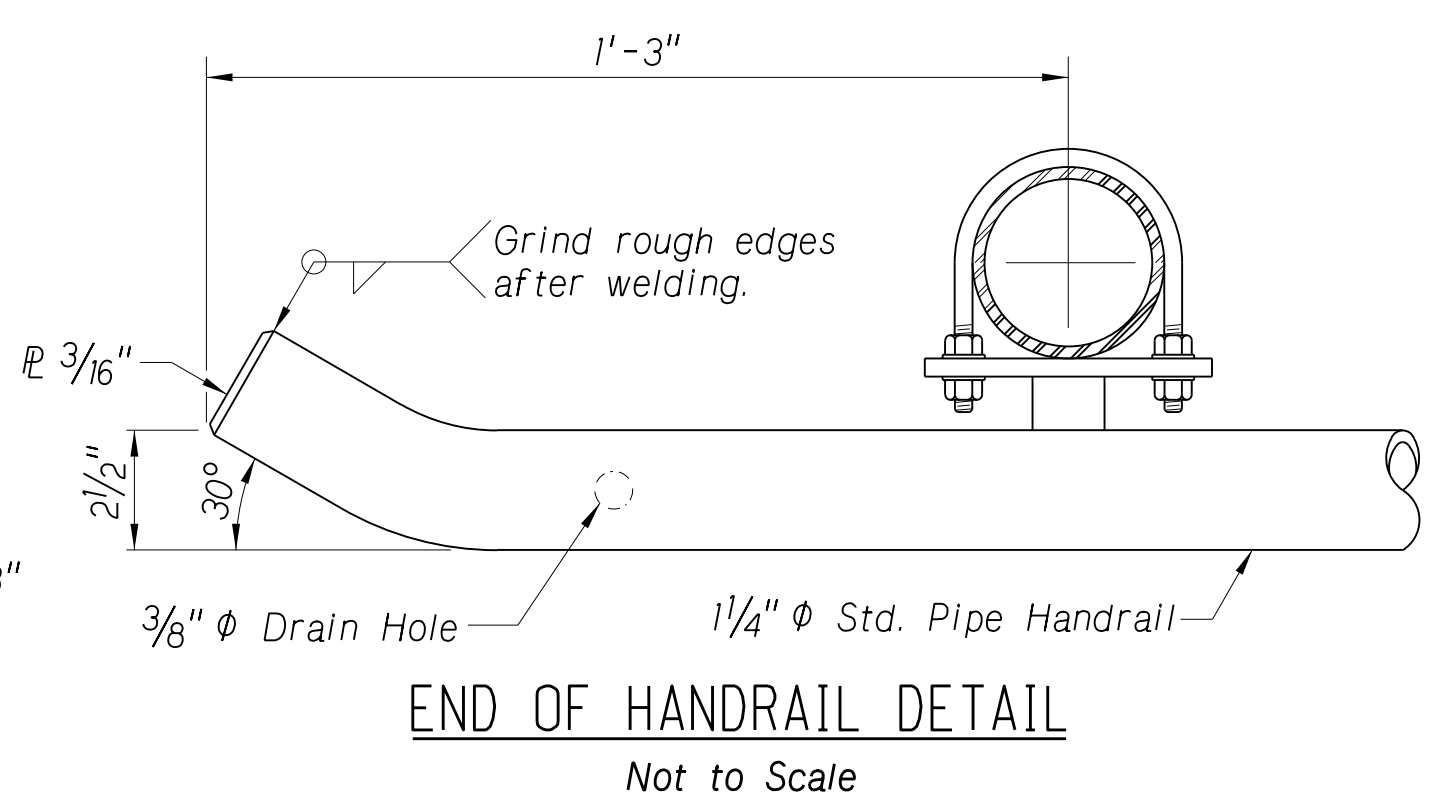
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ELEVATION OF PEDESTRIAN RAILING ON APPROACH ROADWAY
 Not to Scale



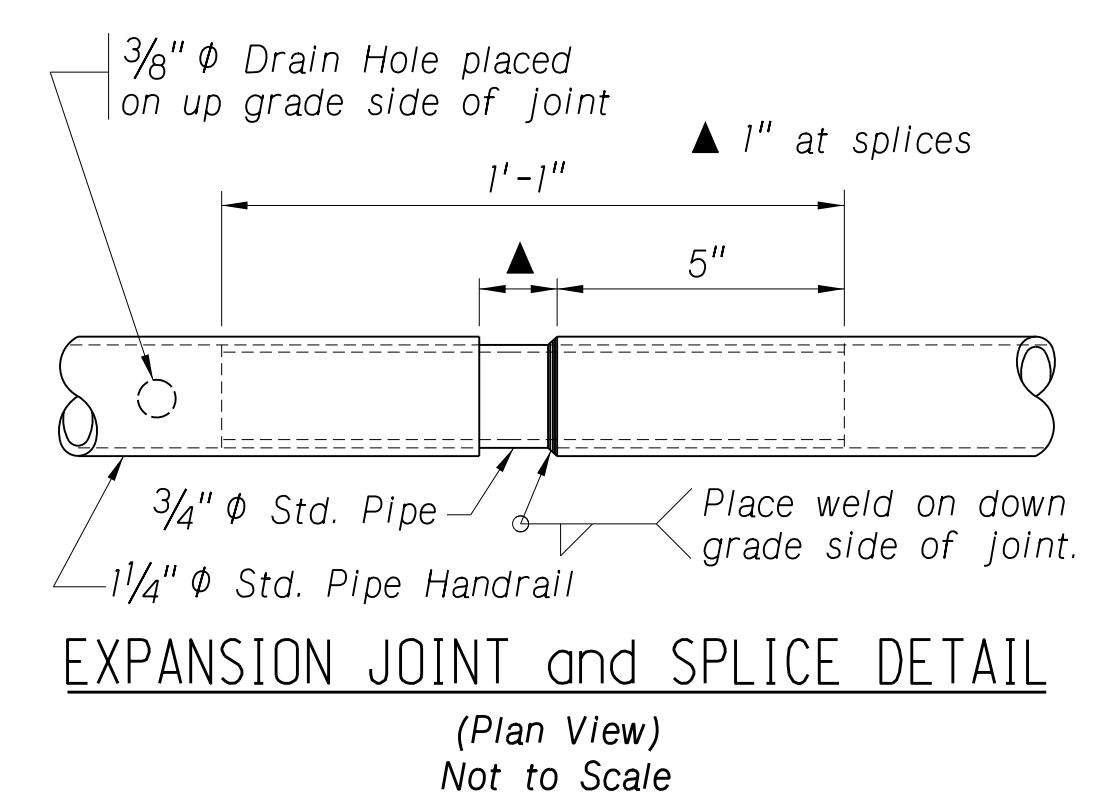
BASE PLATE PLAN VIEW
 Not to Scale



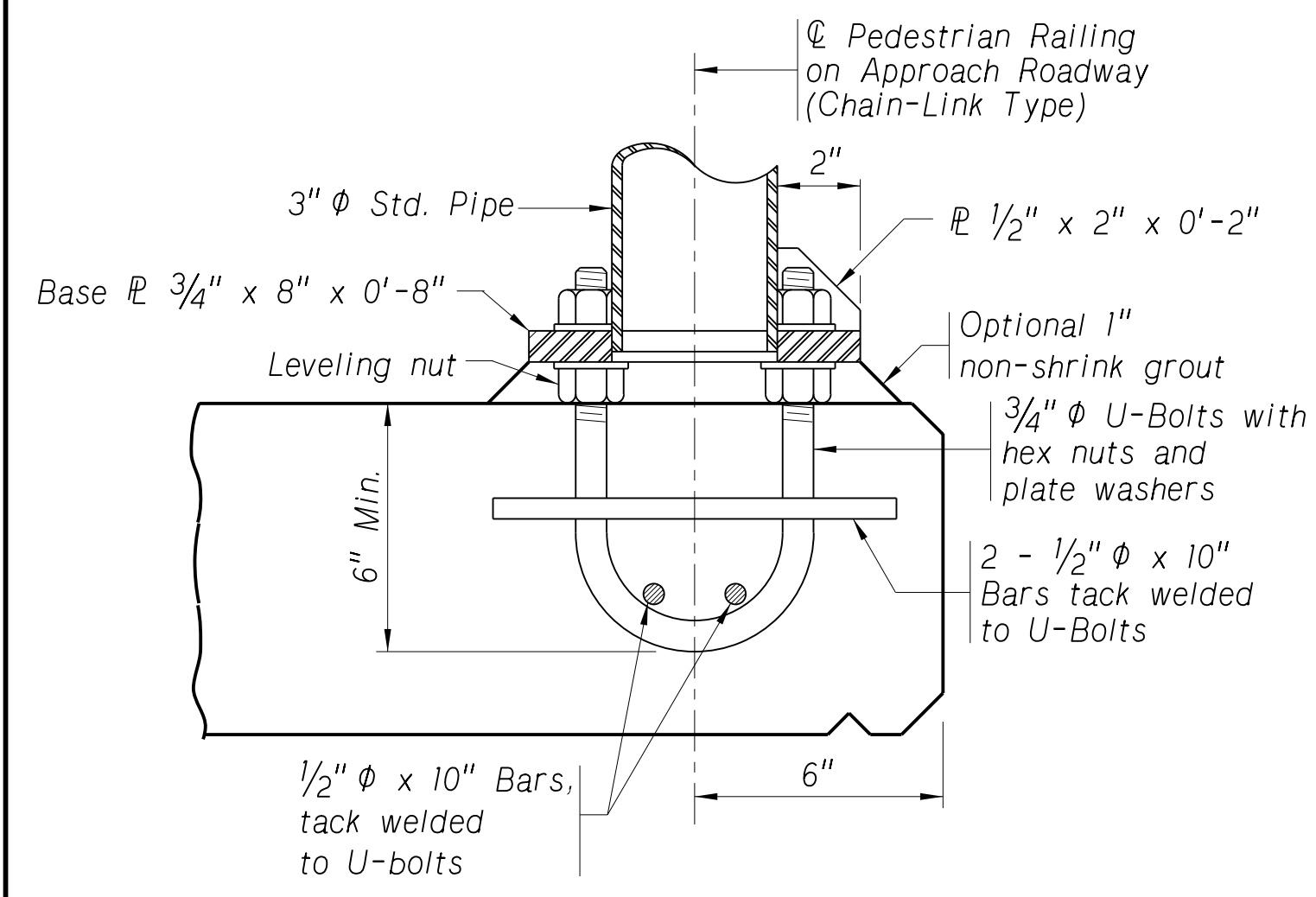
END OF HANDRAIL DETAIL
 Not to Scale

NOTES:
 All standard pipe sizes indicate Nominal Pipe Sizes (NPS). NPS does not refer to the actual inside or outside diameter of the pipe.
 Fence and handrail layout shall conform to vertical alignment of the bridge. Fence posts shall be set plumb. All nuts shall be placed on the outside of the fence. Peen 3/8" bolts.
 Handrail and fence rails must have expansion joints placed at each roadway expansion device. Handrail shall have a minimum length of 20'-0" between splices, see Detail, and placed 12" from center of Line posts.
 Chain-Link fence and handrail will be galvanized and conform to the requirements of Section 1064 of the Standard Specifications. The height of the fabric shall be 5'-0". Knuckled selvage shall be provided at the top and bottom.

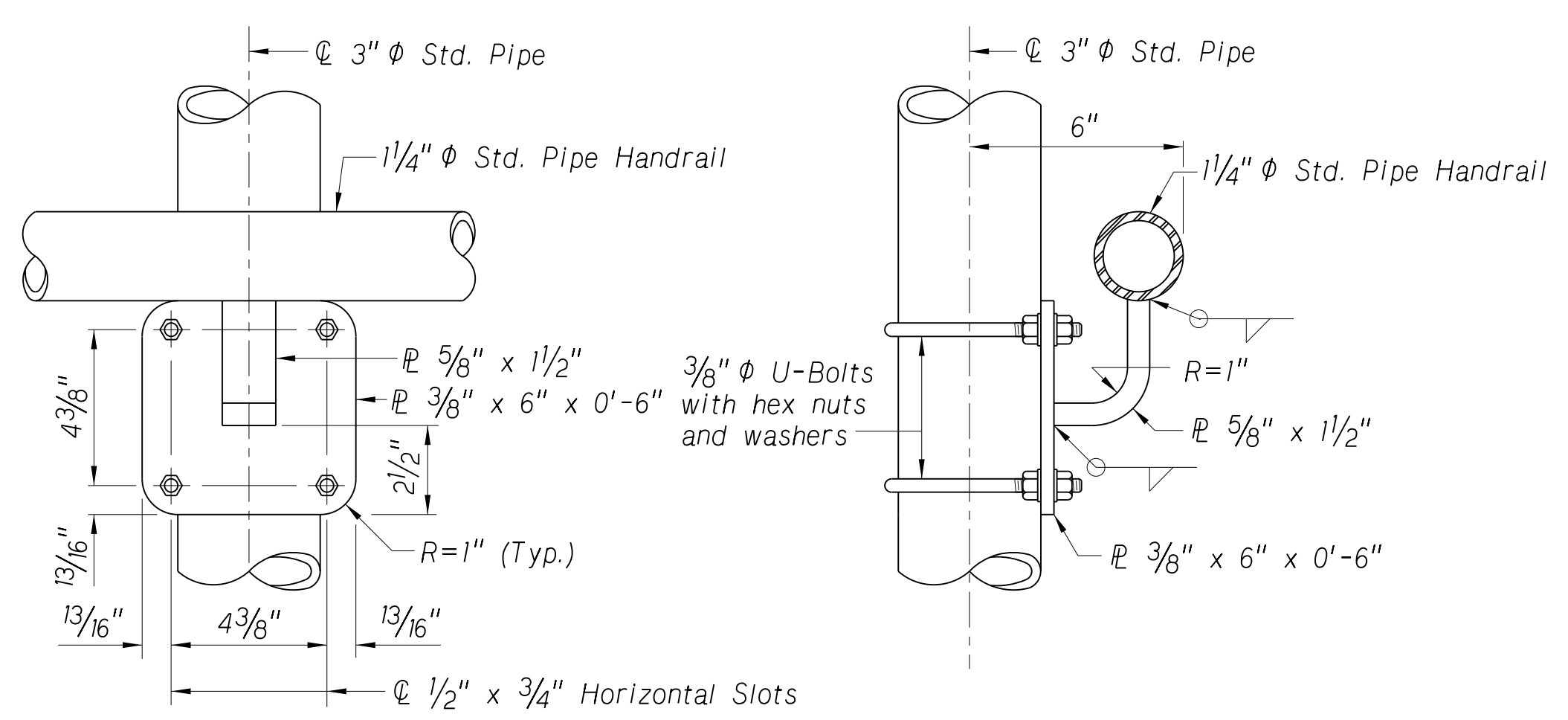
3" ϕ Std. Pipe = 3 1/2" O.D.
 1/4" ϕ Std. Pipe = 1 1/16" O.D.
 3/4" ϕ Std. Pipe = 1 1/16" O.D.



EXPANSION JOINT and SPLICE DETAIL
 (Plan View)
 Not to Scale

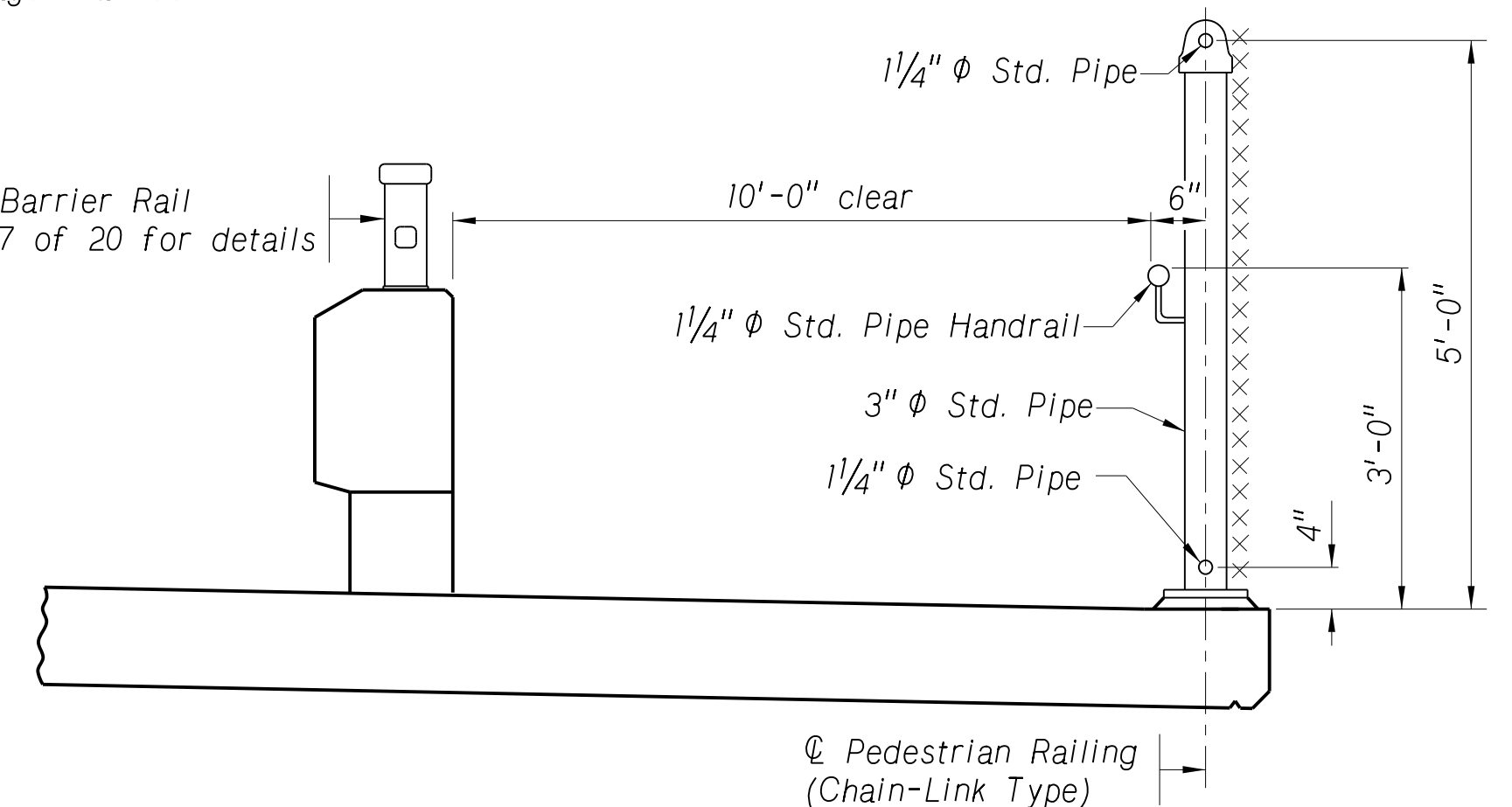


SECTION
 Not to Scale



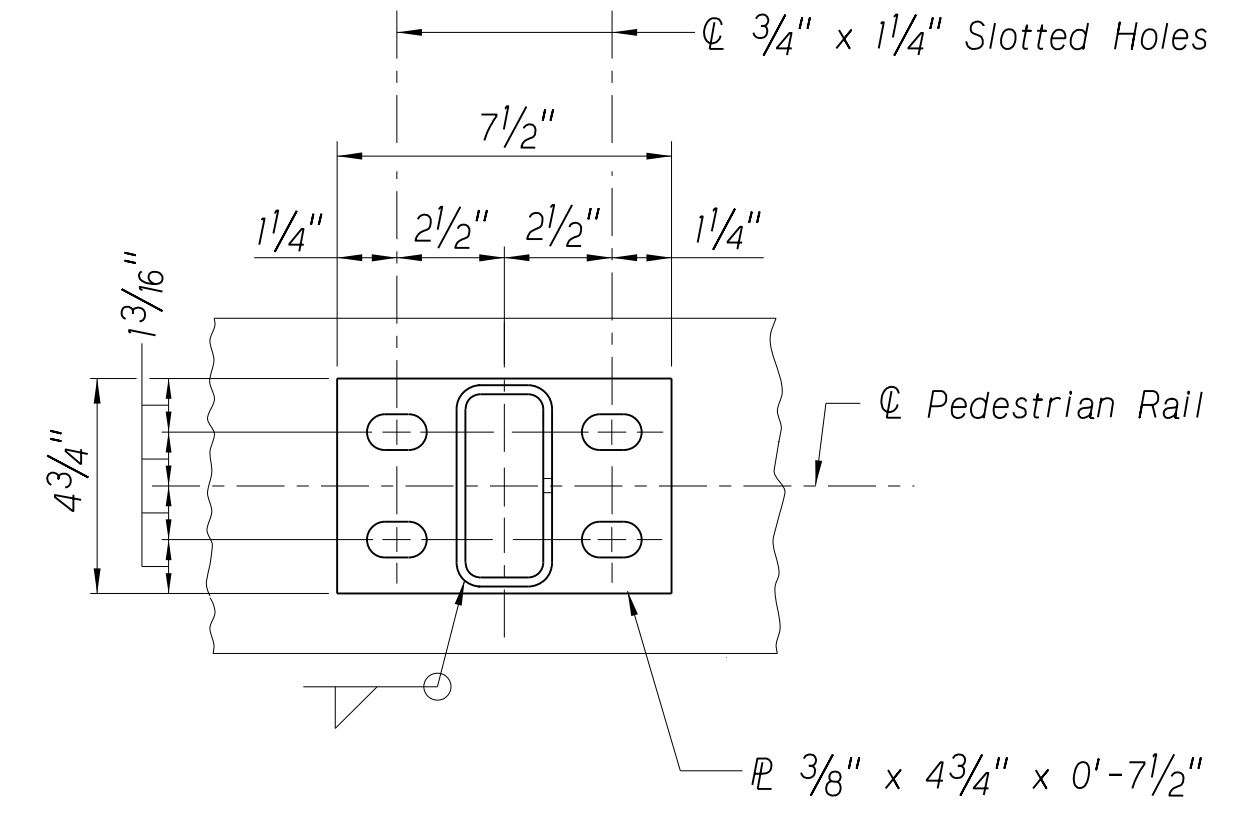
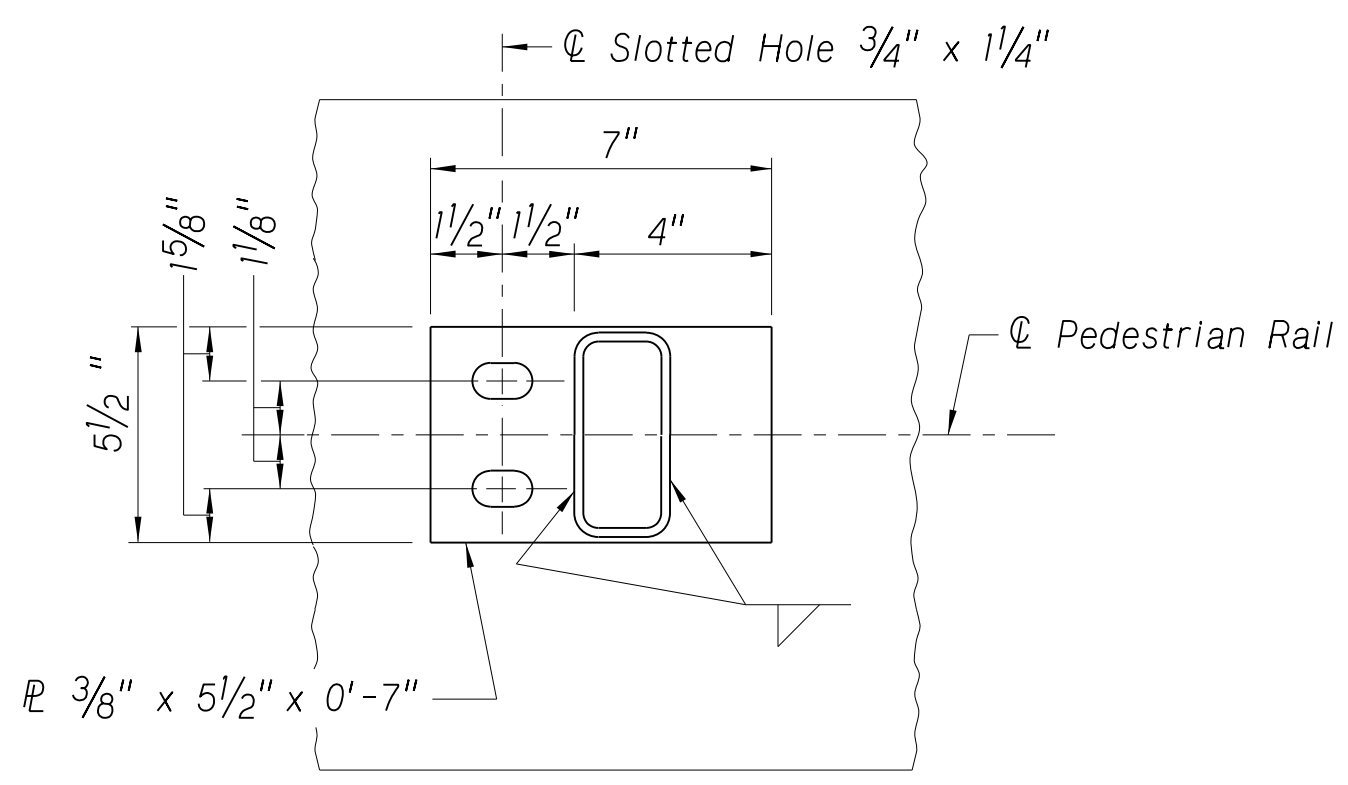
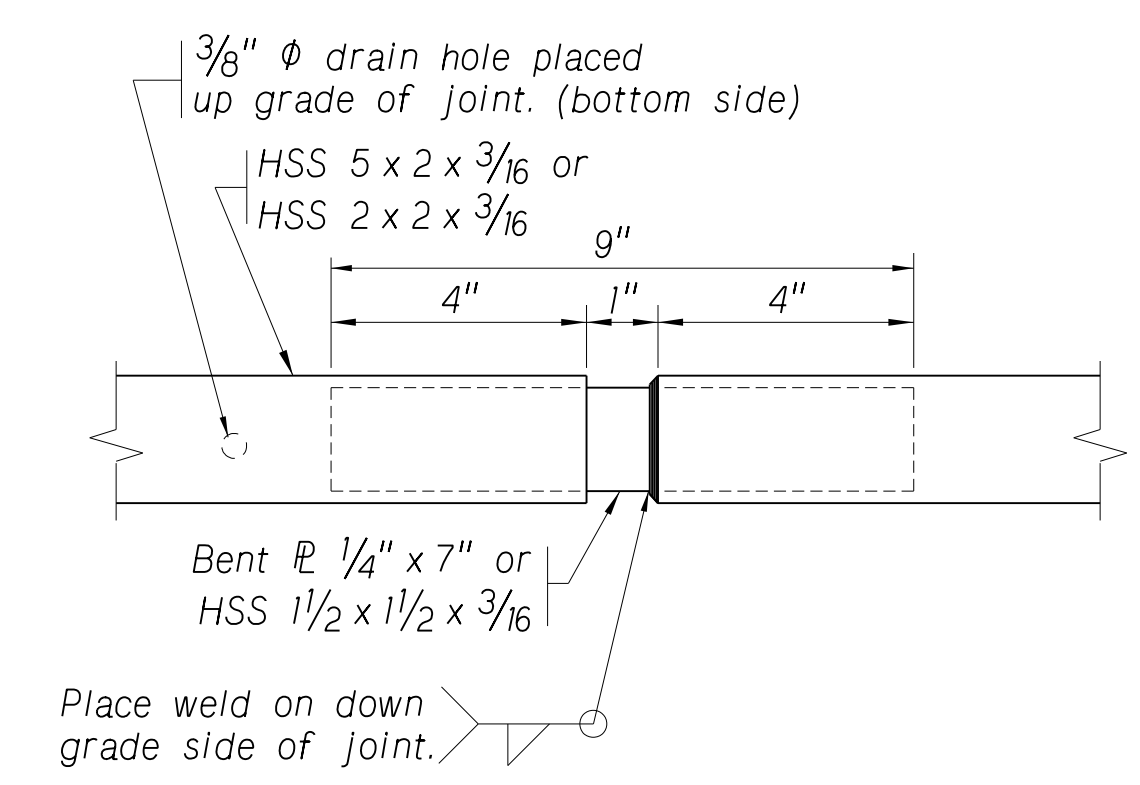
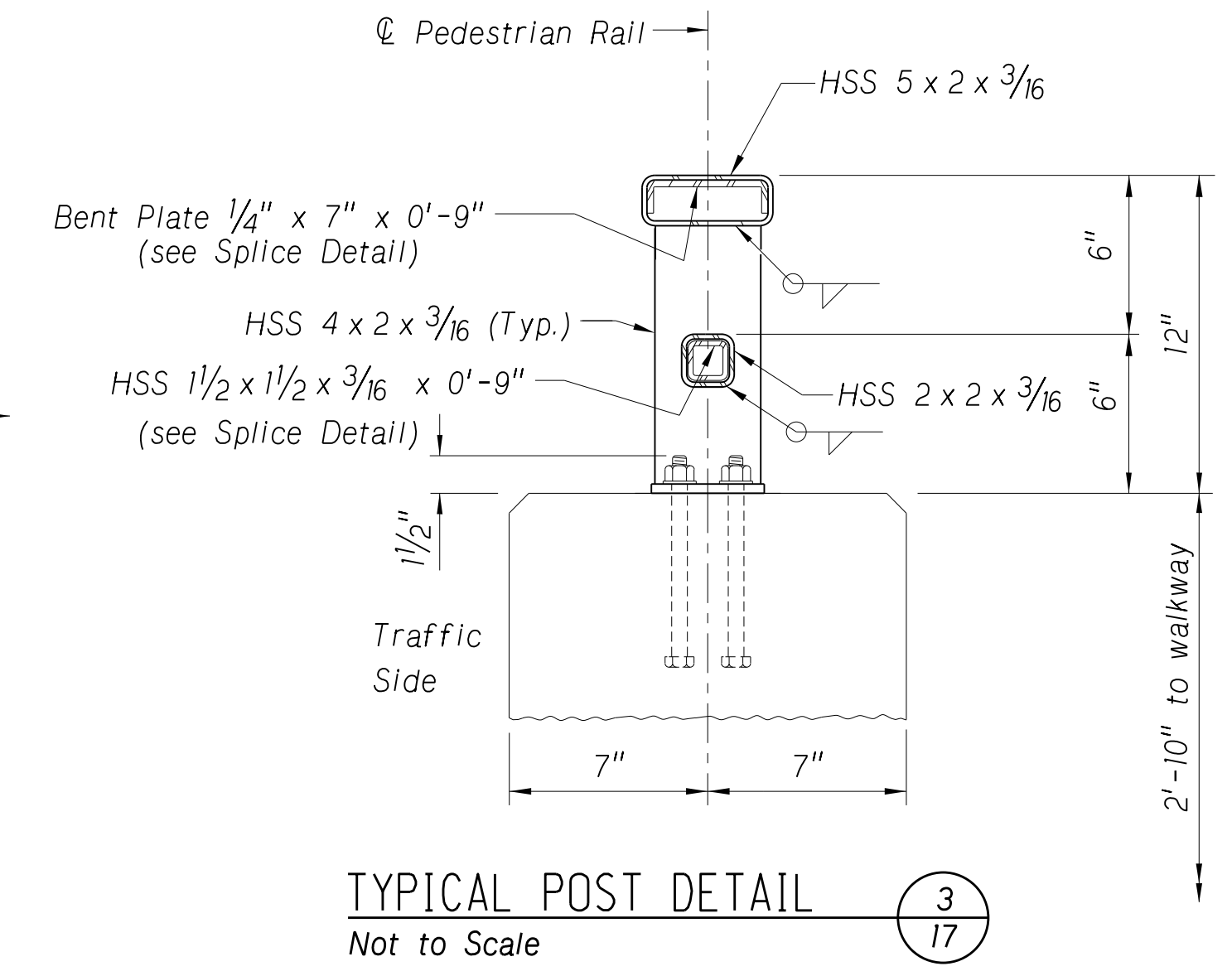
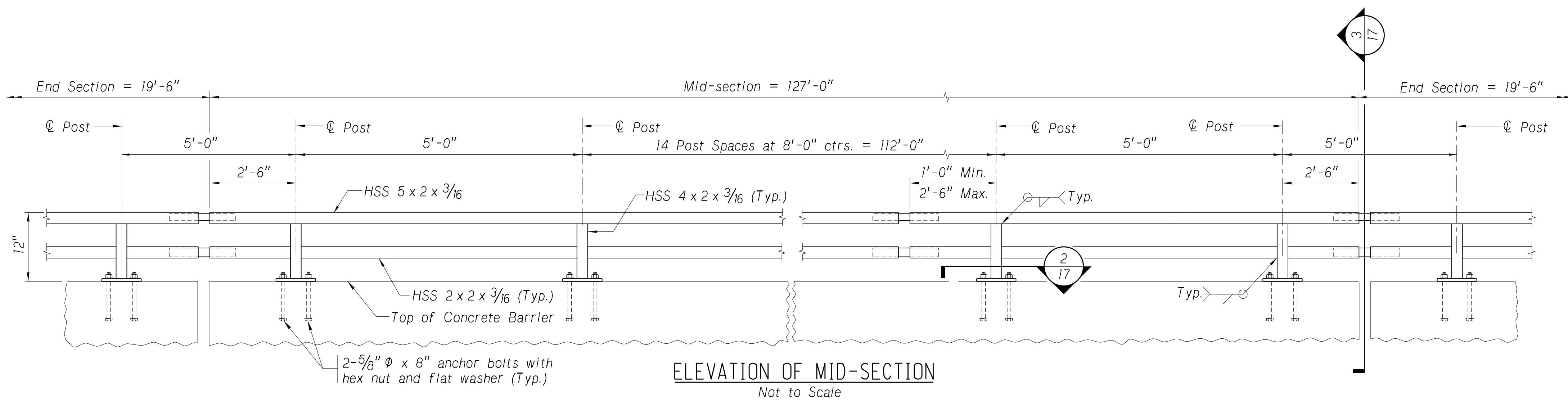
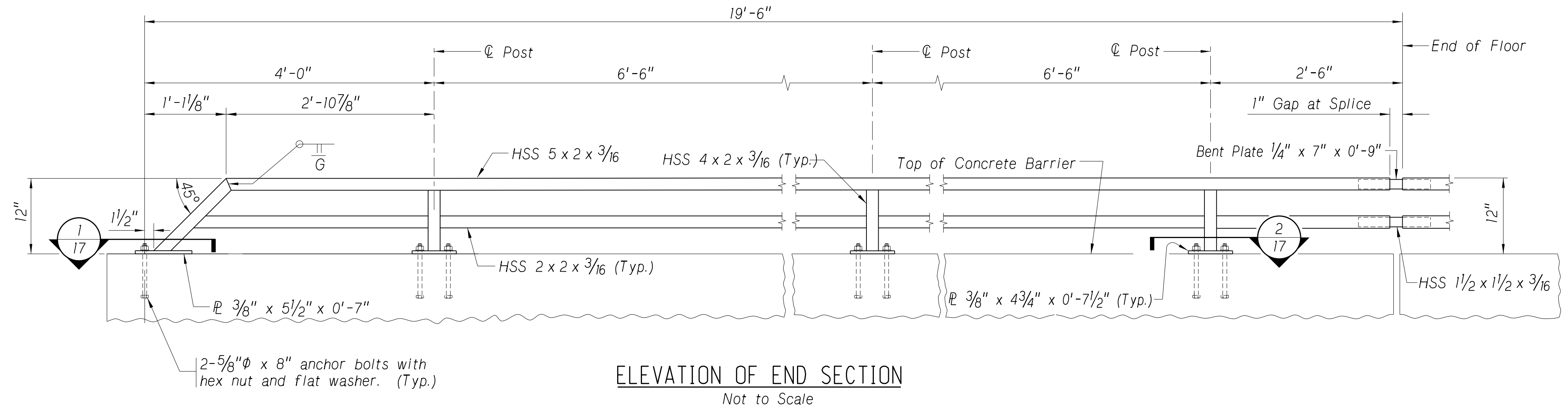
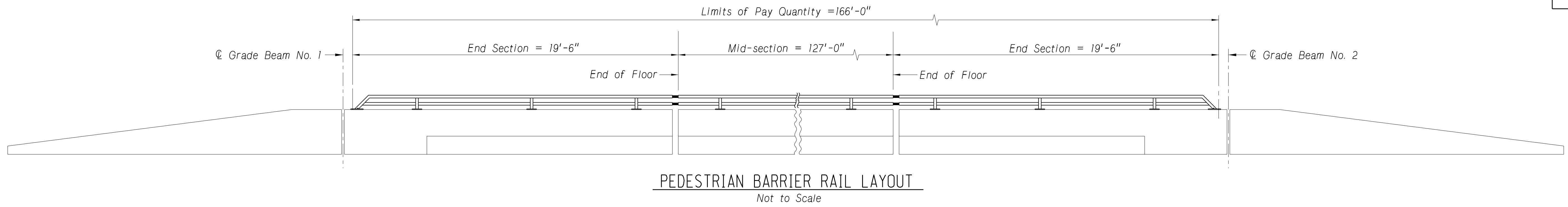
HANDRAIL BRACKET DETAILS
 Not to Scale

Pedestrian Barrier Rail
 See sheet 17 of 20 for details



TYPICAL SECTION THRU FENCE
 Not to Scale

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NOTE

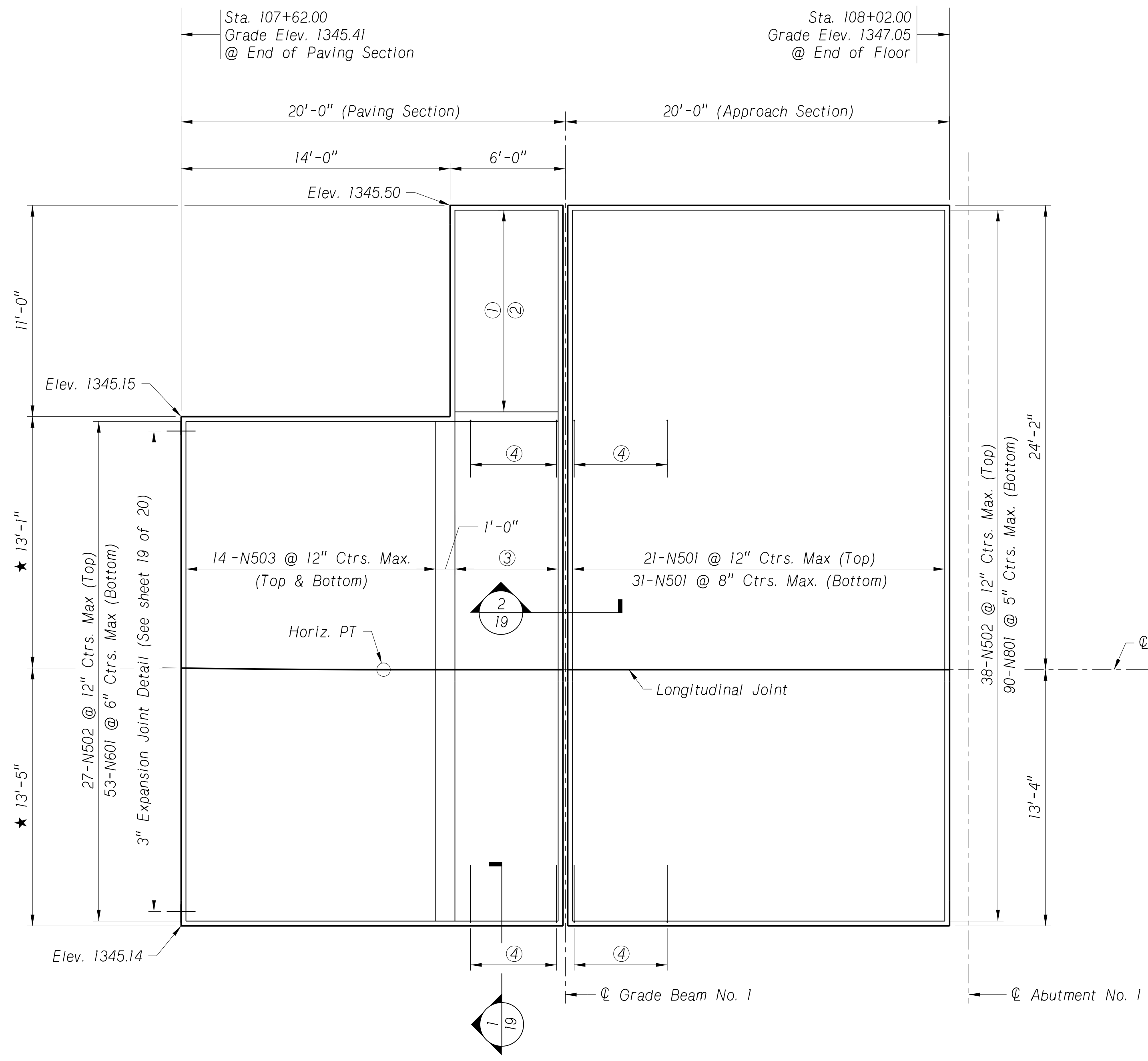
All dimensions are measured along ϕ rail.

Structural tubing for the pedestrian barrier rail shall conform to the requirements of ASTM A500 Grade B. All structural steel for pedestrian barrier rail shall be galvanized after fabrication, according to the requirements of ASTM A123. Anchor bolts and hardware shall be galvanized according to the requirements of ASTM A153.

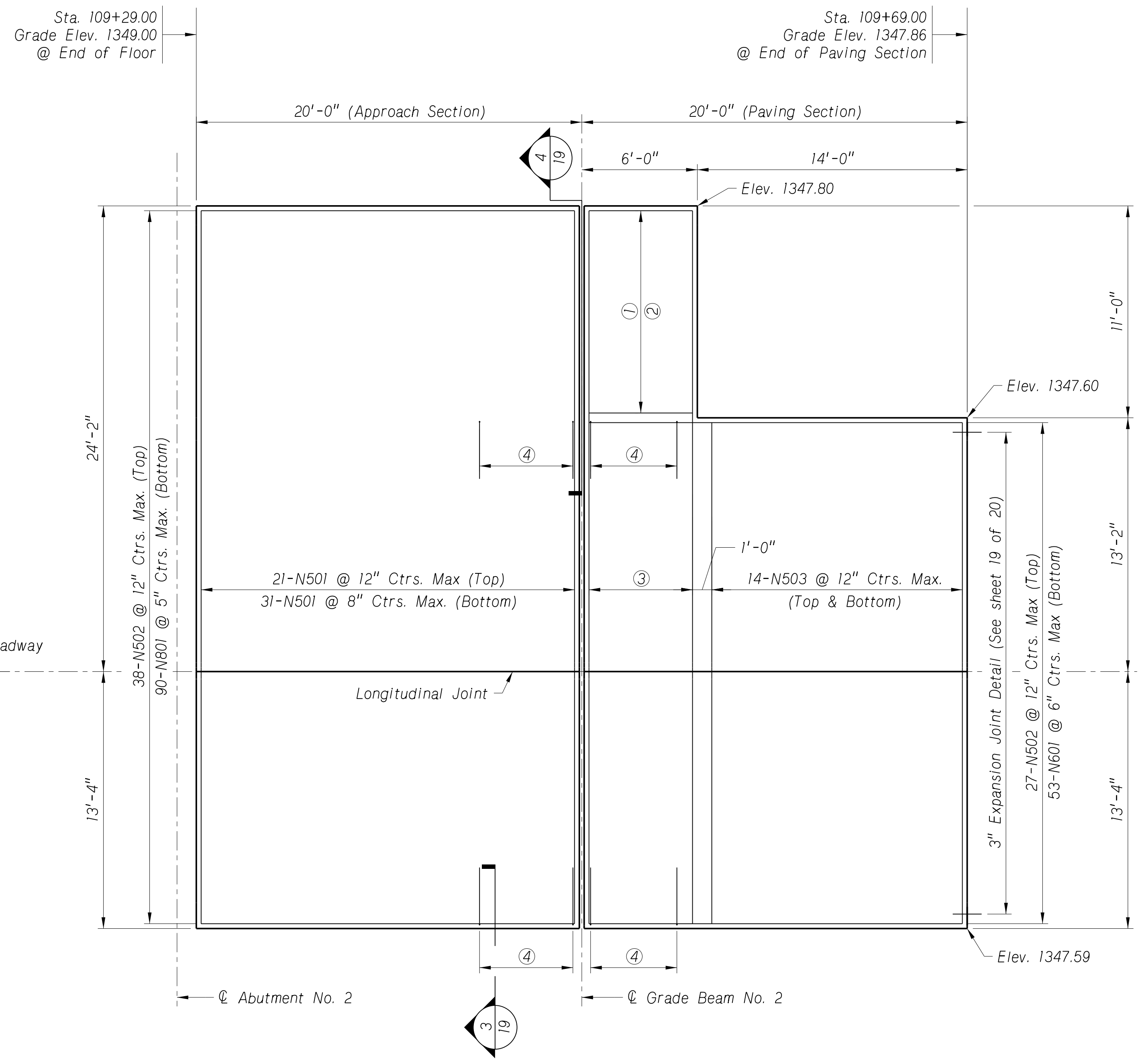
Pedestrian barrier rail posts shall be set plumb. Structural tubing for pedestrian barrier rail shall have a minimum length of 20'-0" and a maximum length of 40'-0" between splices. Splices at mid-section shall be placed within 2'-6" of ϕ posts. All areas of pedestrian barrier rail fabrication which can retain water shall be provided with a 3/8" ϕ drain hole.



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APPROACH SLAB NO. 1



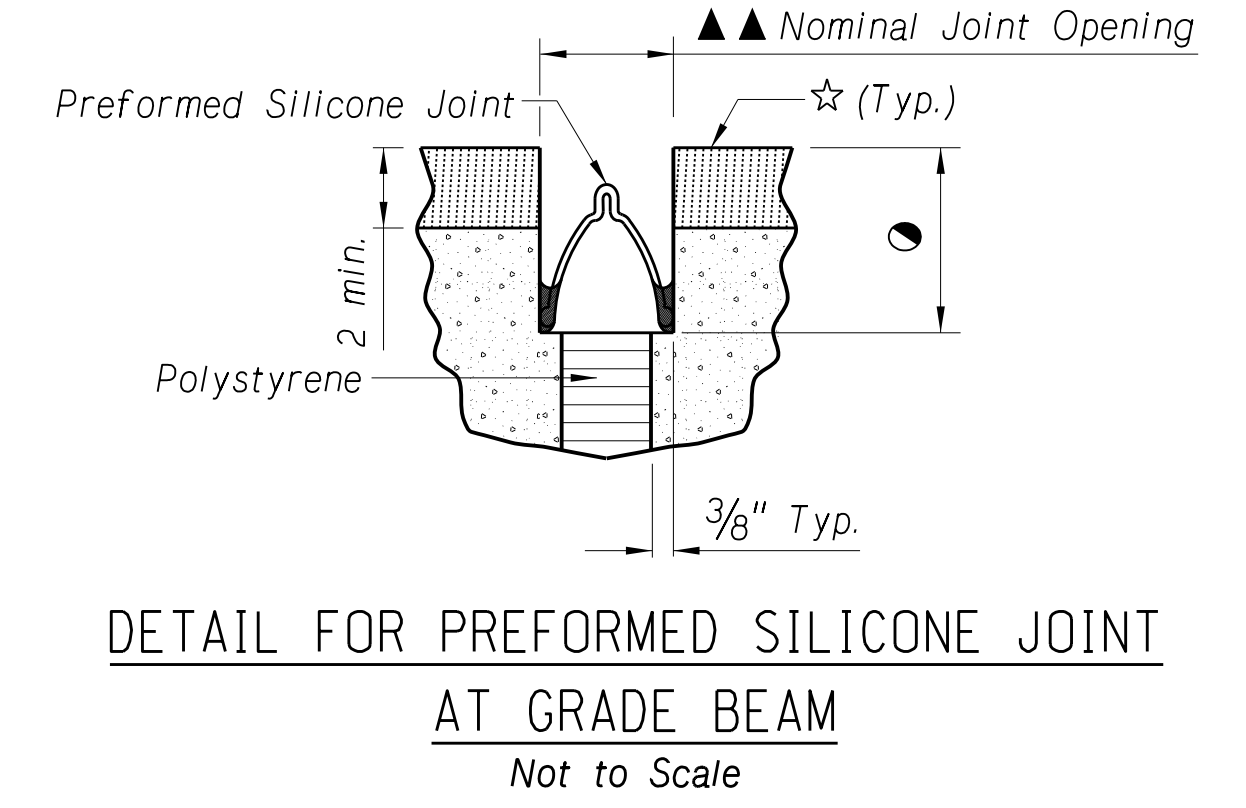
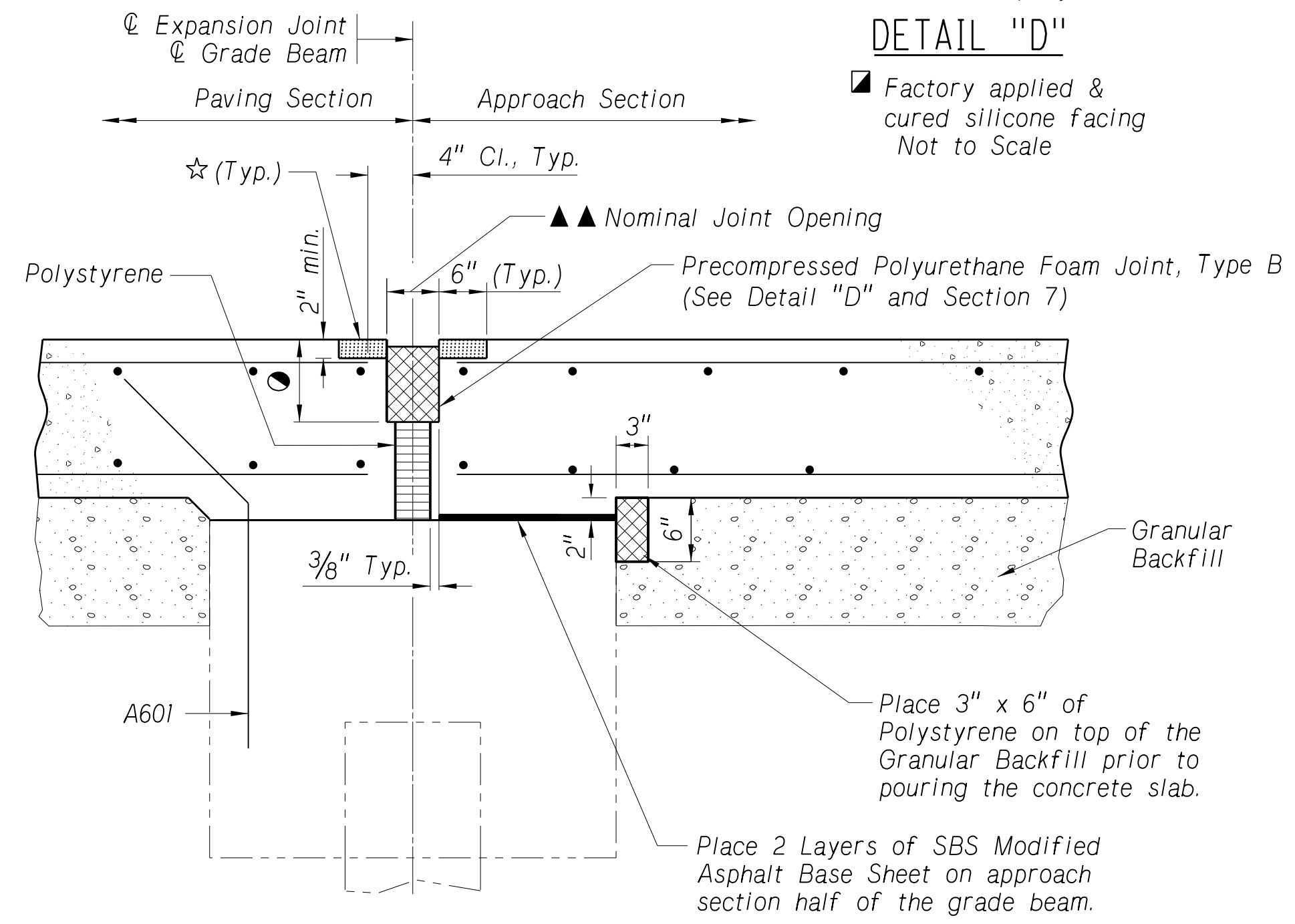
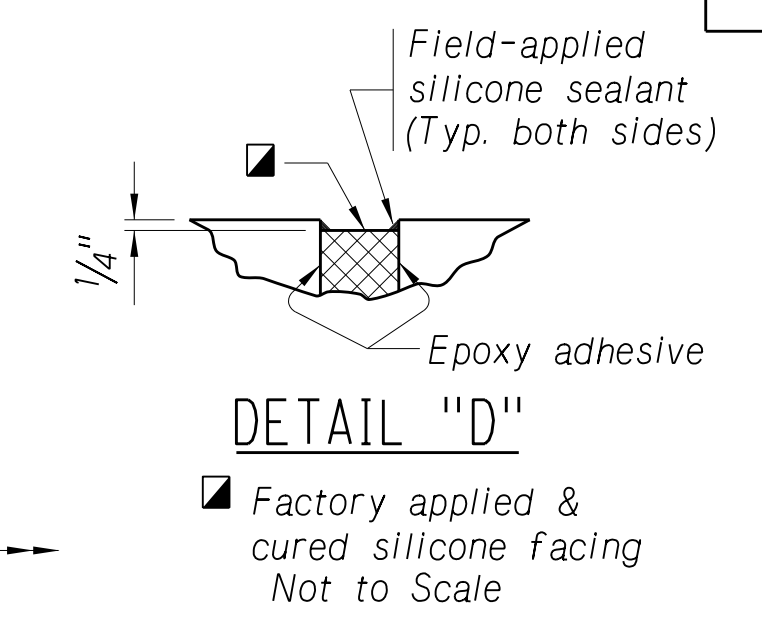
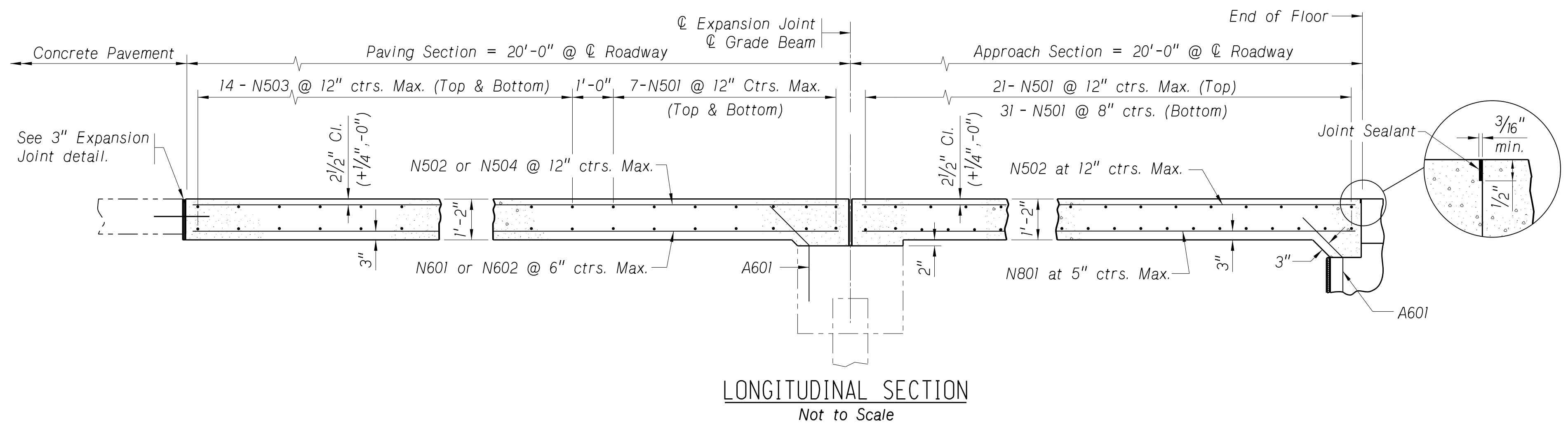
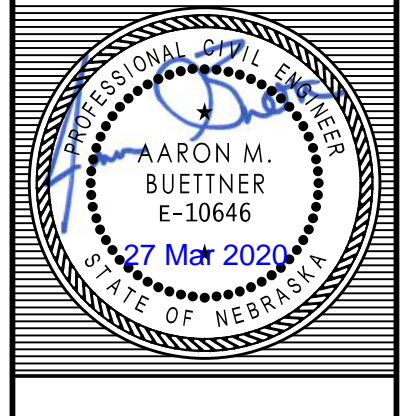
APPROACH SLAB NO. 2

GENERAL PLAN OF APPROACH SLABS
 Scale: 1/4" = 1'-0"

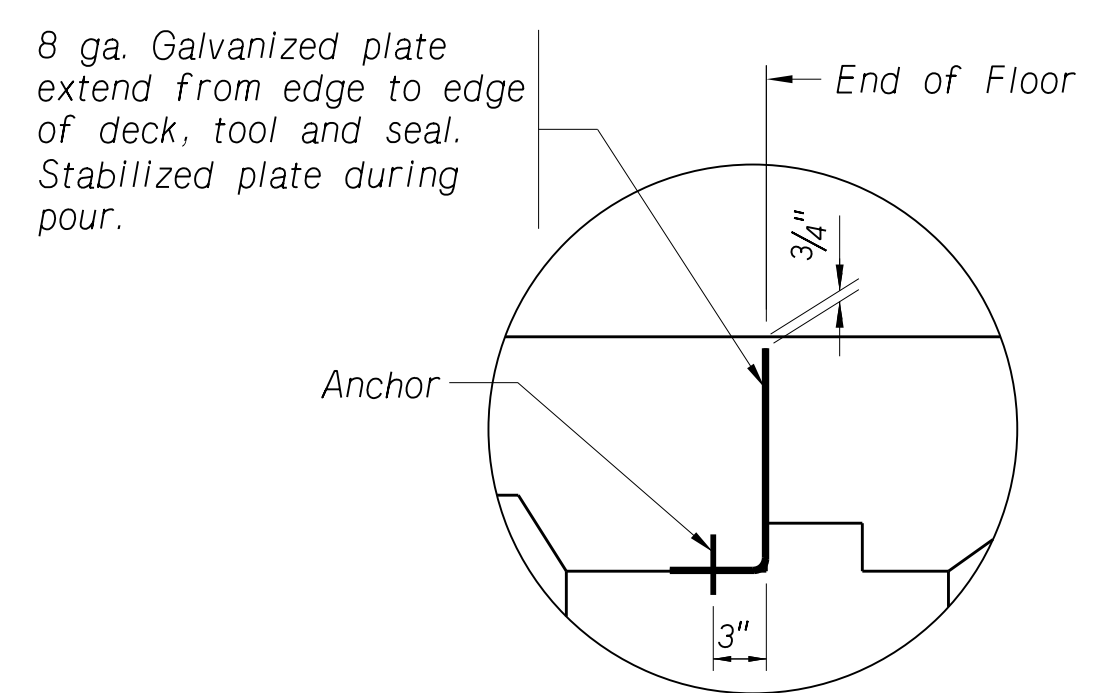
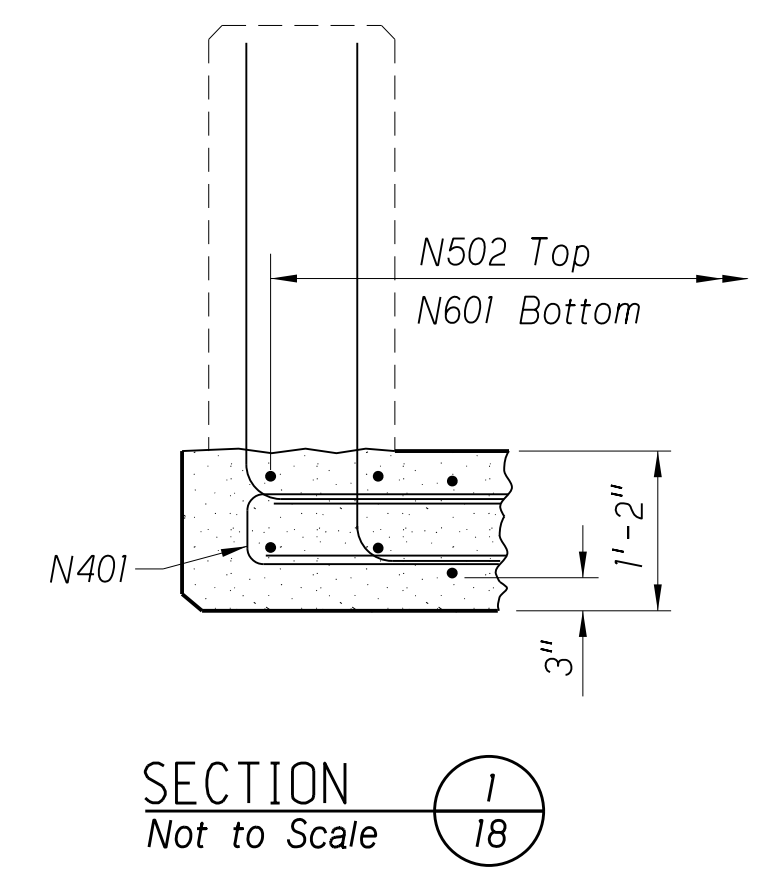
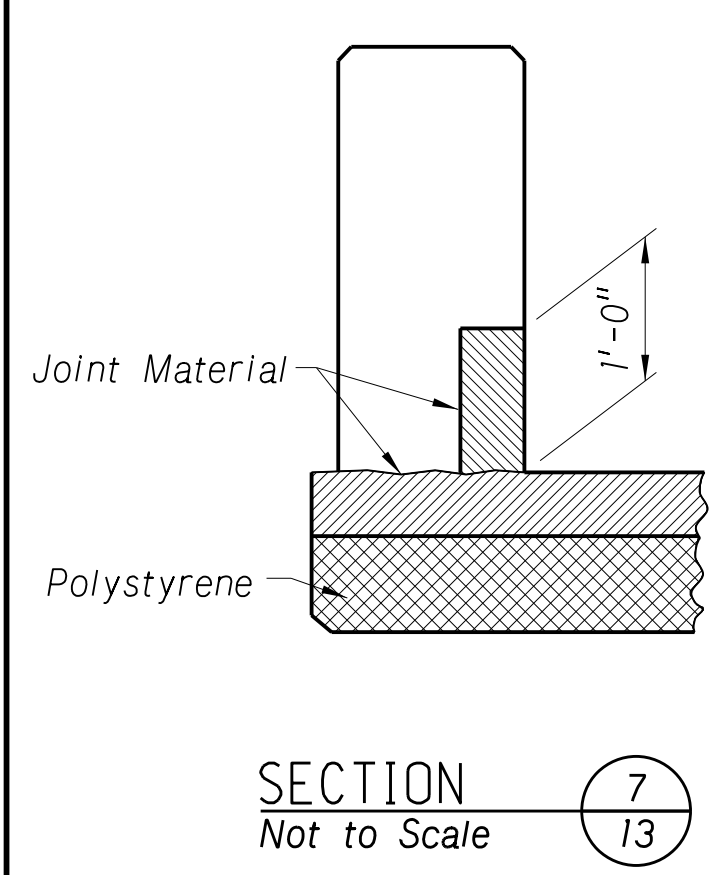
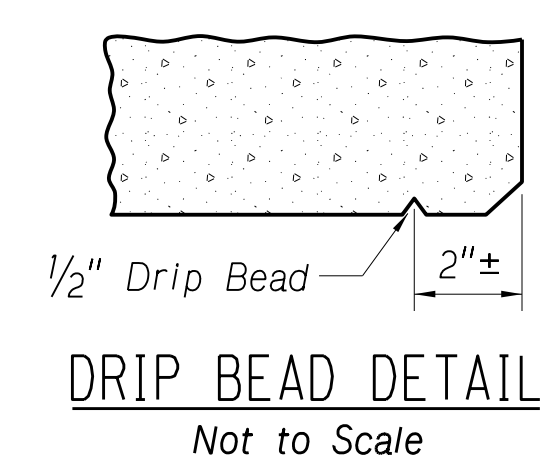
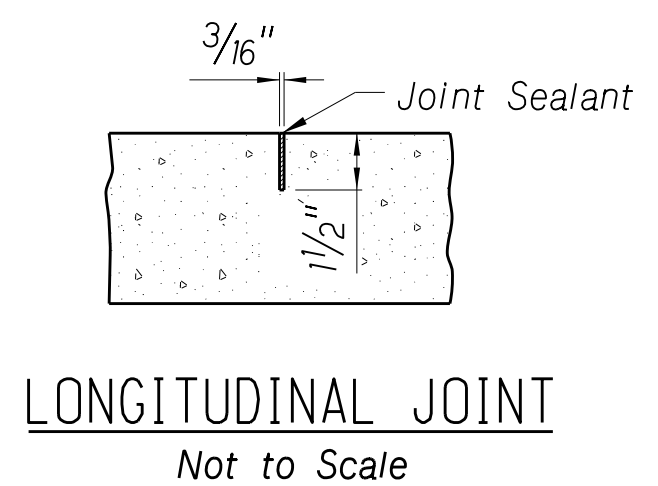
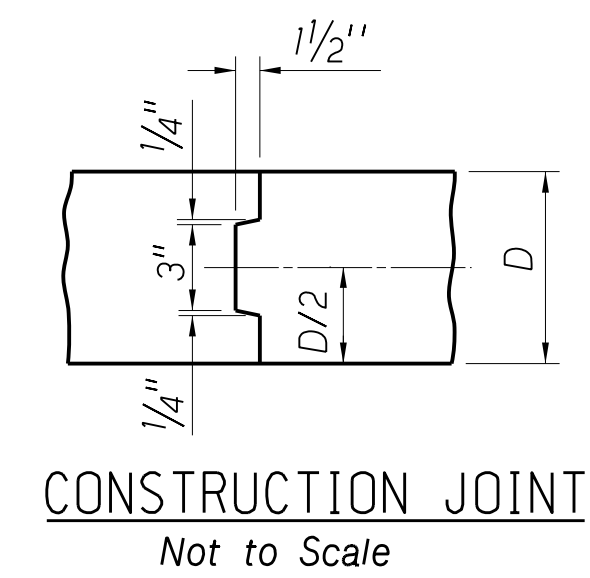
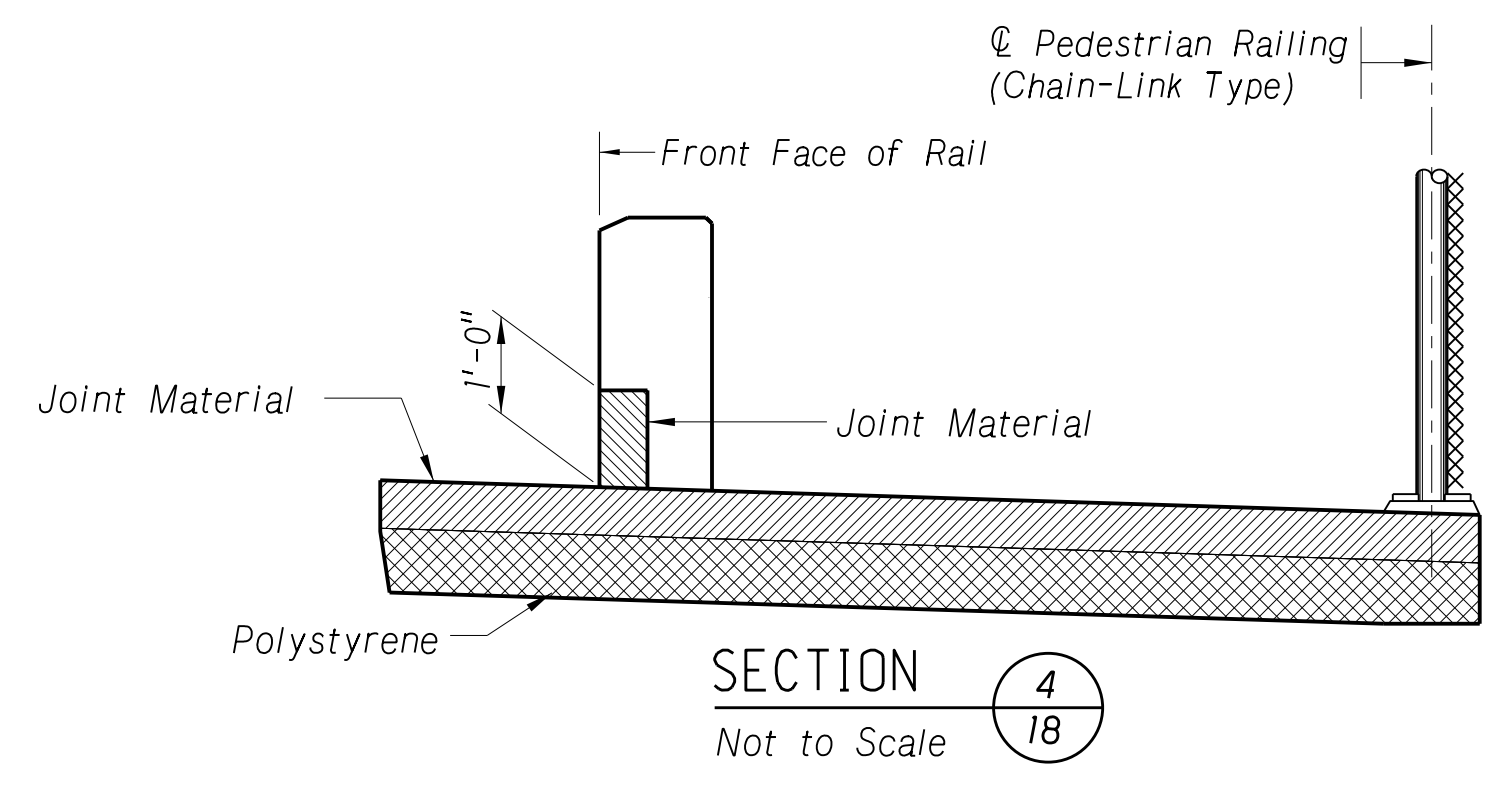
- ★ Measured at End of Paving Section
- ① 12-N504 @ 12" Ctrs. Max. (Top)
- ② 22-N602 @ 6" Ctrs. Max. (Bottom)
- ③ 7-N501 @ 12" Ctrs. Max. (Top & Bottom)
- ④ 6-N401 (Match N501)



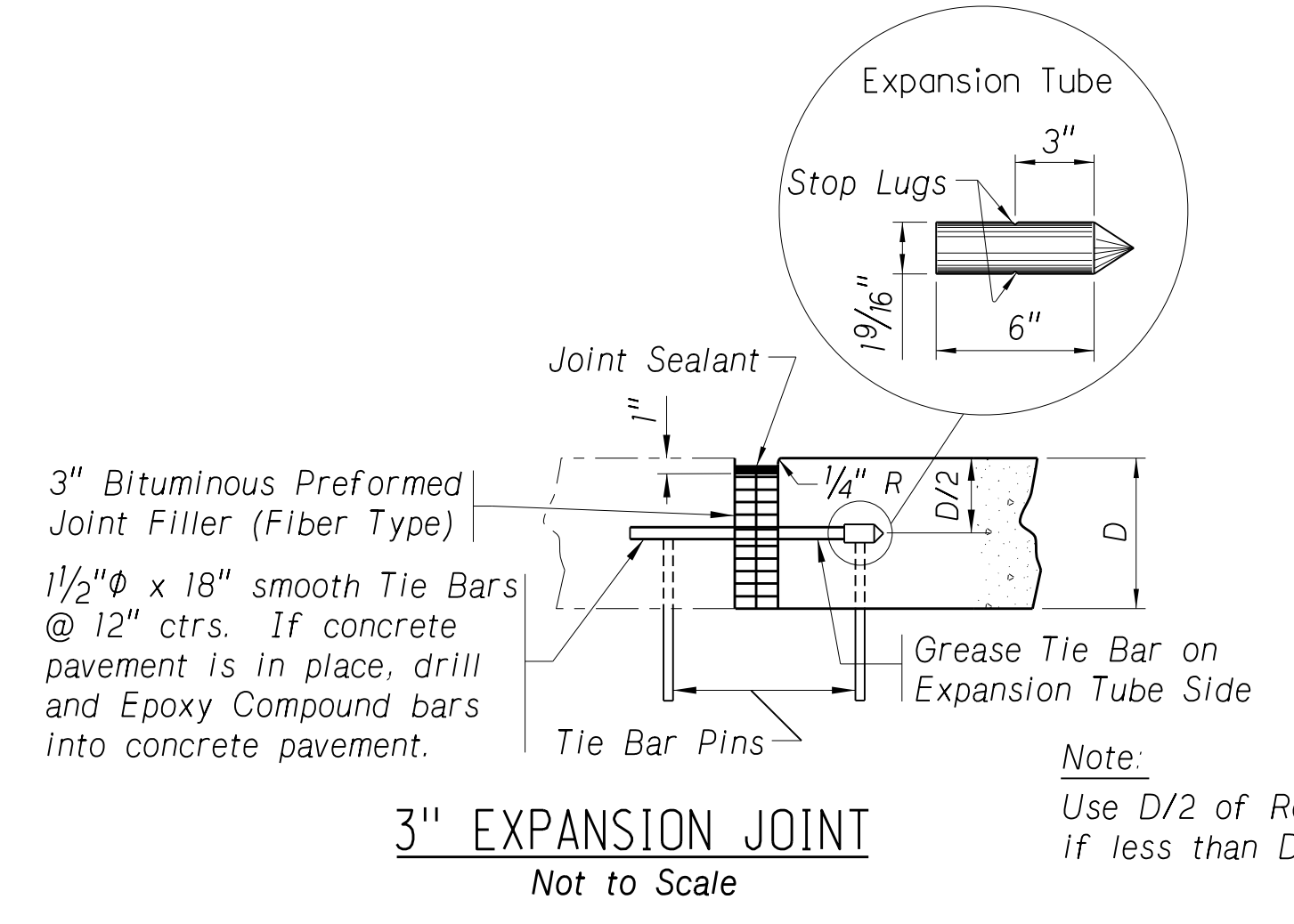
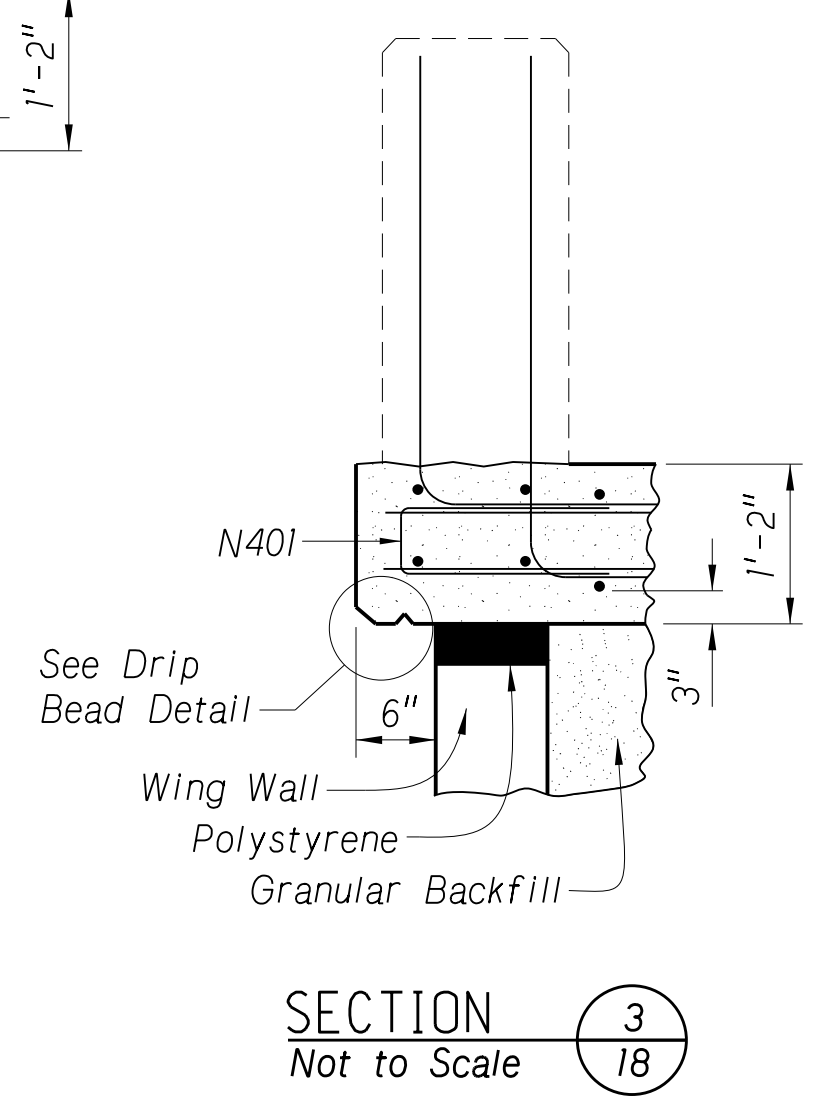
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(Preformed Silicone Joint Substitution for Precompressed Polyurethane Foam)



To be used if approach slab is poured continuous with bridge deck.



Note: Use D/2 of Roadway Pavement if less than D/2 of Paving Section.

AMBIENT TEMPERATURE RANGE DURING POUR	PPF ORDER SIZE ▲		
	2.25"	SiliCoFlex	Wibo
30°F - 70°F	2.00"	2.75"	2.50"
70°F - 85°F	1.75"	2.50"	2.25"

APPROACH SLAB NOTES:

- Concrete Rail Width = 1'-2". See sheet 13 of 20 for placement of rail reinforcement. See Standard Specifications for tining and finishing of approach slabs.
- SBS Modified Asphalt base sheets and all other miscellaneous items shall be considered subsidiary to the Pay Item, CONCRETE FOR PAVEMENT APPROACHES CLASS 47BD-4000.
- SBS Modified Asphalt base sheets shall be modified bitumen roofing material, with a minimum thickness of 0.090 inch and a minimum weight of 60 lbs. per 100 sq. feet.
- Longitudinal Joints shall be 1/2" deep and placed in the paving and approach slabs in accordance with section 603.03 paragraph 12 of the Standard Specifications. Contractor shall exercise care not to damage reinforcing steel placed in the top layer of the slabs.
- The expansion gap between approach section and paving section shall be cleaned of all foreign matter before the installation of the expansion device or the filler material.
- ★ Bridge Joint Nosing Material shall be one of the products found in the Approved Products List. Follow all manufacturer's recommendations. Bridge Joint Nosing Material shall run from front face of rail to front face of rail.
- This depth is to be determined by the preformed joint manufacturer.
- ▲ PPF Joint material, size to be ordered for a 50° opening + 1/4".
- ▲▲ Nominal Joint Opening at time of pour.



Y:\Lincoln\1116005\1116005_00\Eng_Docs\Bridges\Sheets\19_Approach_Slab_Details.dgn

Y:\Lincoln\1116005\111608_00\Eng_Docs\Bridges\Sheets\20_Approach_Slabs_Billing\Bills_of_Materials\Bending_Diagram.dgn

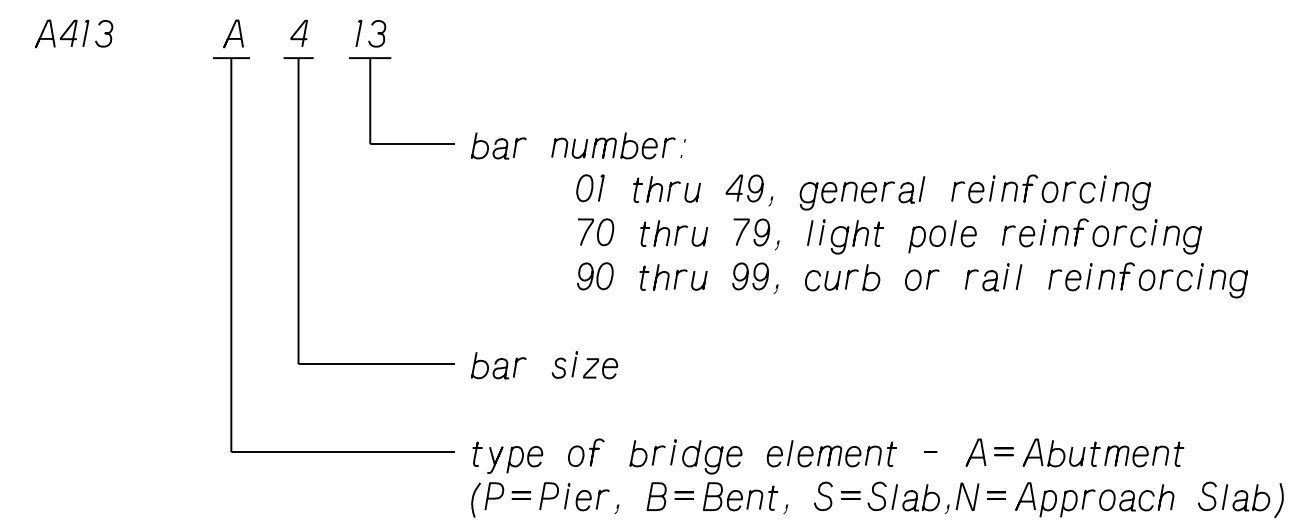
B I L L O F B A R S													
MARK	NO.	LENGTH	TYPE	"A"	"B"	"C"	"D"	"E"	"F"	PIN	HOOK	WEIGHT LB	
N801	90	19'-5"	Str.									4,666	
N601	53	19'-5"	Str.									1,546	
N602	22	5'-5"	Str.									179	
N501	66	37'-0"	Str.									2,547	
N502	65	19'-5"	Str.									1,316	
N503	28	26'-0"	Str.									759	
N504	12	5'-5"	Str.									68	
N401	24	6'-7"	103	3'-0"	0'-7"	3'-0"				2"		106	
SUBTOTAL = 11,187 LB													

N692	30	5'-10"	104	2'-11"	2'-11"					4 1/2"		263	
N693	30	6'-10"	104	3'-5"	3'-5"					4 1/2"		308	
N591	16	11'-11"	107	4'-8"	0'-10"					2 1/2"	5 1/2"	199	
N592	20	17'-0"	Str.									355	
N593	30	5'-10"	104	2'-11"	2'-11"					3 3/4"		183	
N594	30	6'-10"	104	3'-5"	3'-5"					3 3/4"		214	
N595	4	19'-9"	101	17'-0"	2'-9"	0'-4 1/2"				3 3/4"		82	
N596	24	11'-11 1/2" AV.	Str.									299	
N597	4	19'-7"	Str.									82	
N598	68	4'-8" AV.	104	3'-3"	2'-5"	Max.				3 3/4"		331	
				1'-3"	2'-5"	Min.				3 3/4"			
N391	16	5'-2"	107	1'-5"	0'-10"					1 1/2"	4"	31	
SUBTOTAL = 2,347 LB													

N801	90	19'-5"	Str.									4,666	
N601	53	19'-5"	Str.									1,546	
N602	22	5'-5"	Str.									179	
N501	66	37'-0"	Str.									2,547	
N502	65	19'-5"	Str.									1,316	
N503	28	26'-0"	Str.									759	
N504	12	5'-5"	Str.									68	
N401	24	6'-7"	103	3'-0"	0'-7"	3'-0"				2"		106	
SUBTOTAL = 11,187 LB													

N692	30	5'-10"	104	2'-11"	2'-11"					4 1/2"		263	
N693	30	6'-10"	104	3'-5"	3'-5"					4 1/2"		308	
N591	16	11'-11"	107	4'-8"	10"					2 1/2"	5 1/2"	199	
N592	20	17'-0"	Str.									355	
N593	30	5'-10"	104	2'-11"	2'-11"					3 3/4"		183	
N594	30	6'-10"	104	3'-5"	3'-5"					3 3/4"		214	
N595	4	19'-9"	101	17'-0"	2'-9"	0'-4 1/2"				3 3/4"		82	
N596	24	11'-11 1/2" AV.	Str.									299	
N597	4	19'-7"	Str.									82	
N598	68	4'-8" AV.	104	3'-3"	2'-5"	Max.				3 3/4"		331	
				1'-3"	2'-5"	Min.				3 3/4"			
N391	16	5'-2"	107	1'-5"	0'-10"					1 1/2"	4"	31	
SUBTOTAL = 2,347 LB													
TOTAL = 27,068 LB													

BAR MARK



BAR SETS-RAIL ON APPR. SLAB NO. 1

MARK	MAX. LENGTH	MIN. LENGTH	NO. OF SETS	BARS PER SET
N596	18'-7"	5'-4"	4	6
N598	5'-8"	3'-8"	4	17

BAR SETS-RAIL ON APPR. SLAB NO. 2

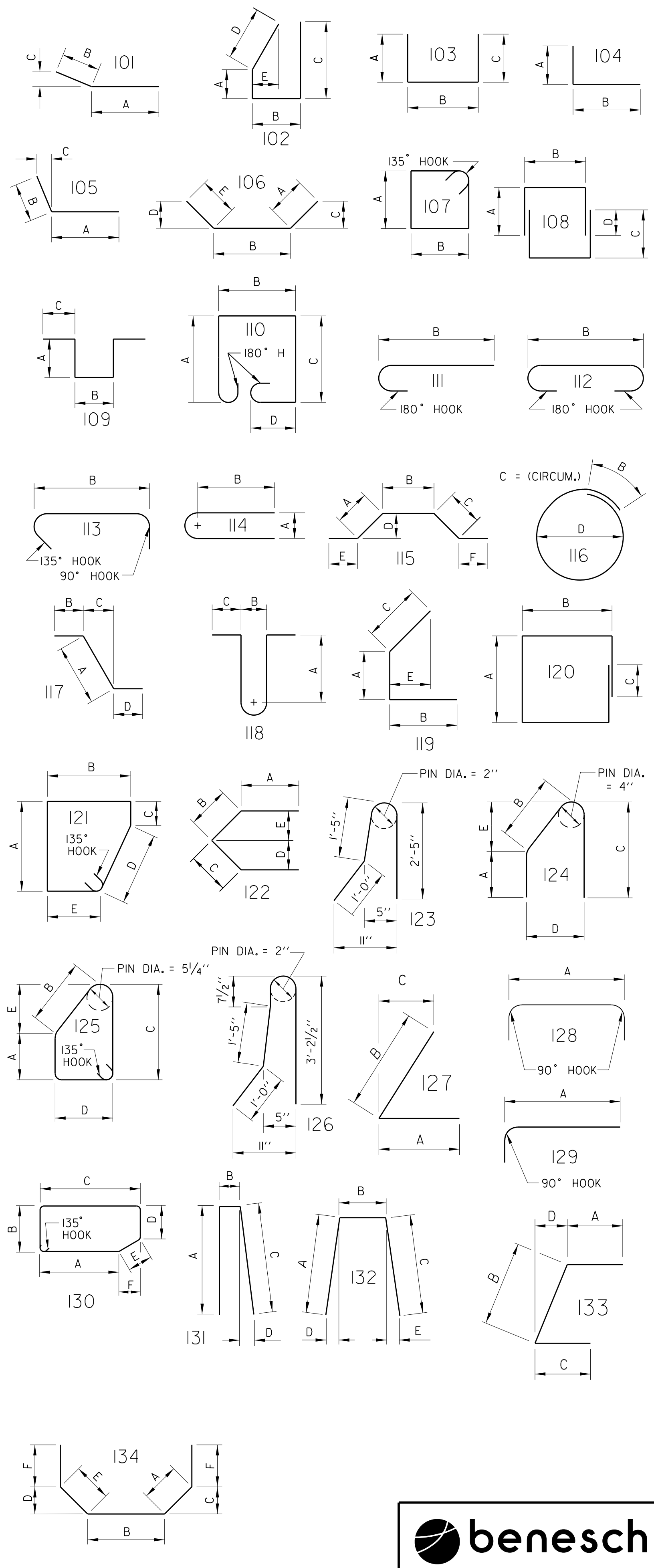
MARK	MAX. LENGTH	MIN. LENGTH	NO. OF SETS	BARS PER SET
N596	18'-7"	5'-4"	4	6
N598	5'-8"	3'-8"	4	17

STANDARD HOOK LENGTH					PIN DIAMETER			
PRIMARY STRESS BARS			STIRRUPS & TIES		PRIMARY STRESS		STIRRUPS & TIES	
BAR SIZE	HOOK H		BAR SIZE	HOOK H	BAR SIZE	Dp	BAR SIZE	Dp
4	90°	180°	3	90°	4	3"	3	1 1/2"
5	10"	7"	4	135°	5	3 1/4"	4	2"
6	12"	8"	5		6	4 1/2"	5	2 1/2"
7	15"	10"	6		7	5 1/4"	6	4 1/2"
8	17"	11"	7		8	6"	7	5 1/4"
9	19"	15"	8		9	9 1/2"	8	6"
10	23"	17"			10	11"		
11	24"	19"			11	12"		

d = BAR SIZE
Dp = PIN DIAMETER

BENDING DIAGRAMS

ALL DIMENSIONS ARE OUT TO OUT & NOT TO SCALE
ALL REINFORCING STEEL SHALL BE EPOXY COATED



PROJECT NUMBER 7076(24)	SHEET NO. 520
C.N. 13361	
STRUCTURE NUMBER U062044305	
BRIDGE ENGINEER	
LOCATION TUXEDO PARK ROAD	DATE MARCH, 2020
SKW 0°	CHECKED BY MJK
ROADWAY 24'-0"	DESIGNED BY ZZZ
DESIGN LIVE LOAD HL-93	APPROACH SLAB BILL OF BARS & BENDING DIAG.
ST. 108+65.50	NEBRASKA DEPARTMENT OF TRANSPORTATION - BRIDGE DIVISION
COUNTY SALINE	
HWY. NO. -	
REF. POST. -	
DESIGNED BY ZZZ	
NEBRASKA Good Life. Great Journey. DEPARTMENT OF TRANSPORTATION	
SPECIAL PLAN NO. 1	20 20

STATE OF NEBRASKA
DEPARTMENT OF TRANSPORTATION

PROJECT NO. BRM-7076(24)
C.N. 13361

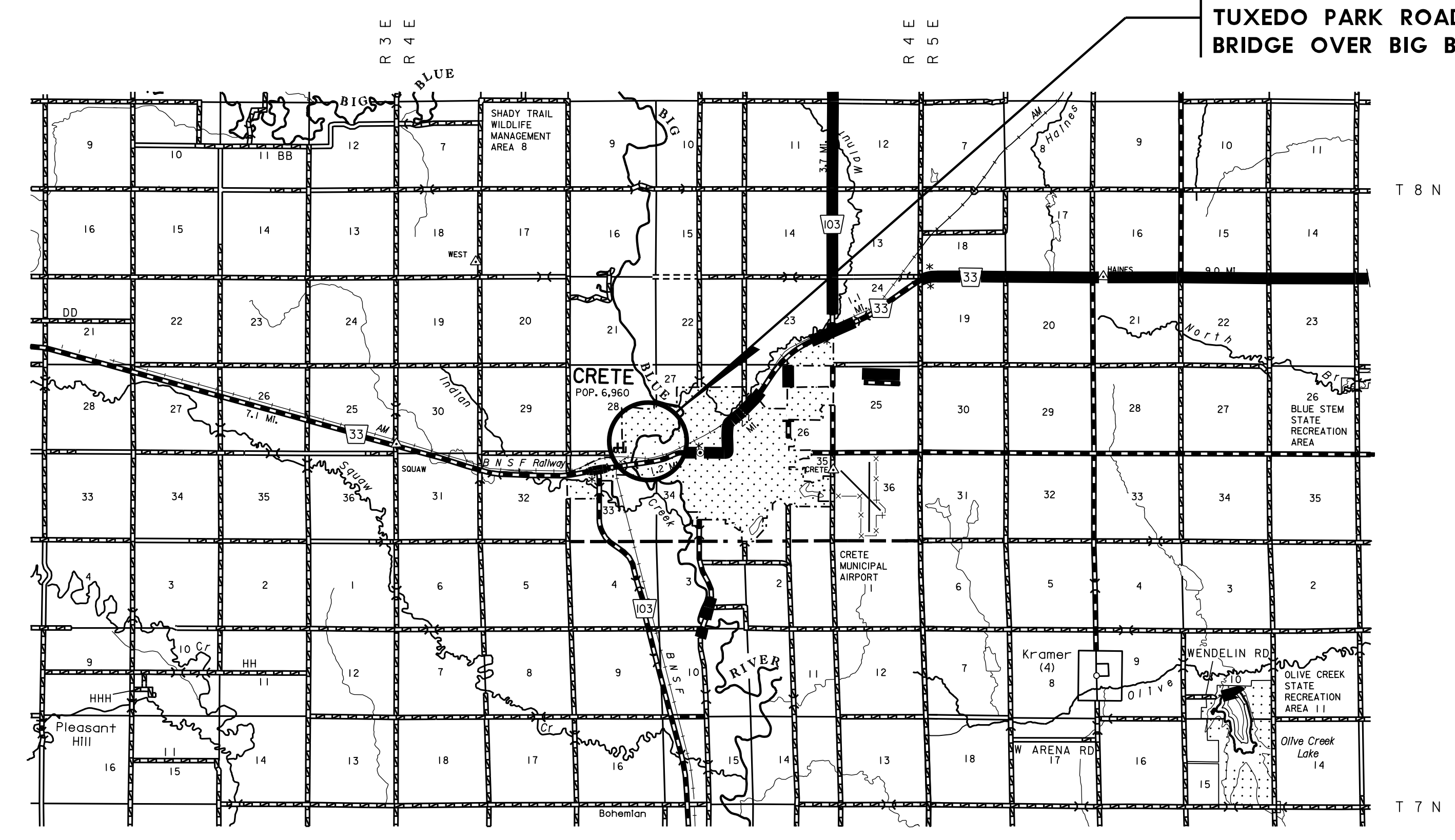
March 26, 2020

CRETE TUXEDO PARK RD
PS&E SUBMITTAL
SALINE COUNTY

SHEET NO.	PLAN SHEET
A1	PRELIMINARY TITLE SHEET
B1	TYPICALS
E1	WETLANDS SHEET
F1 - F2	HORIZONTAL ALIGNMENT AND CONTROL POINTS
G1 - G2	GENERAL INFORMATION SHEET
H1	DETOUR SHEET
J1	GEOMETRICS, JOINTS & GRADES SHEET
J2	CONSTRUCTION AND REMOVAL SHEET
J3	EROSION CONTROL SHEET
L1	PLAN AND PROFILE SHEET
Q1	EARTHWORK STICKUPS
W1	RIGHT-OF-WAY
X1 - X7	ROADWAY CROSS-SECTIONS

TRAFFIC COUNTS	
RP 92+05	
YEAR: 2017	2039
ADT: 255	320
DHV: -	-
T= 10 %	D= - %

PROJECT LOCATION
TUXEDO PARK ROAD
BRIDGE OVER BIG BLUE RIVER



PROJECT TYPE

- 3R
- 3R w/SHOULDER WIDENING
- NEW RECONSTRUCTION
- FULL GRADING
- NEW ALIGNMENT

DESIGNER/SQUAD LEADER:
Rick Houck

PHONE # (402)479-3600

UNIT HEAD:
Dan Rea

PHONE # (402)479-4738

DESIGN STANDARD: NEW & RECONSTRUCTION,
URBAN-LOCAL

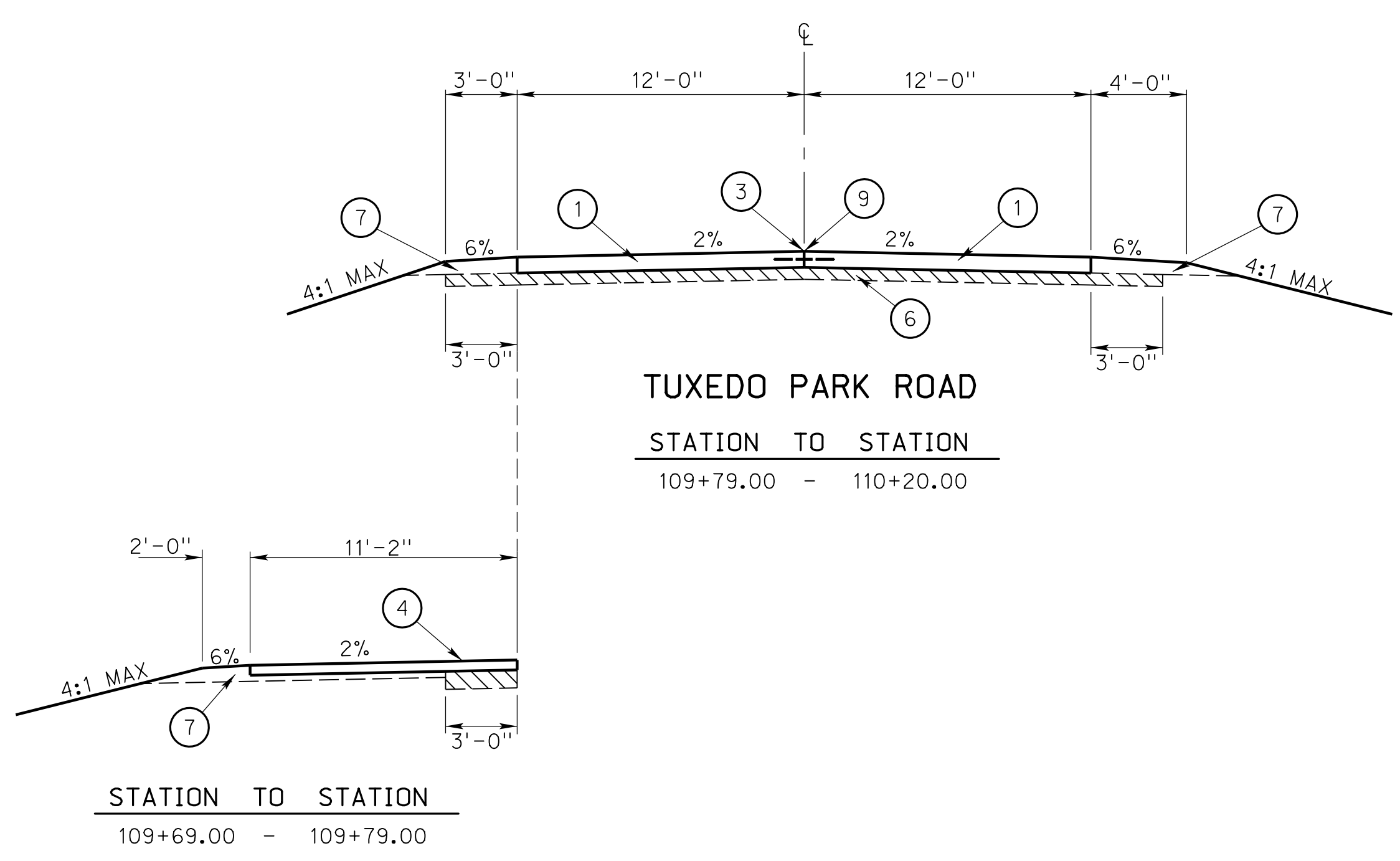
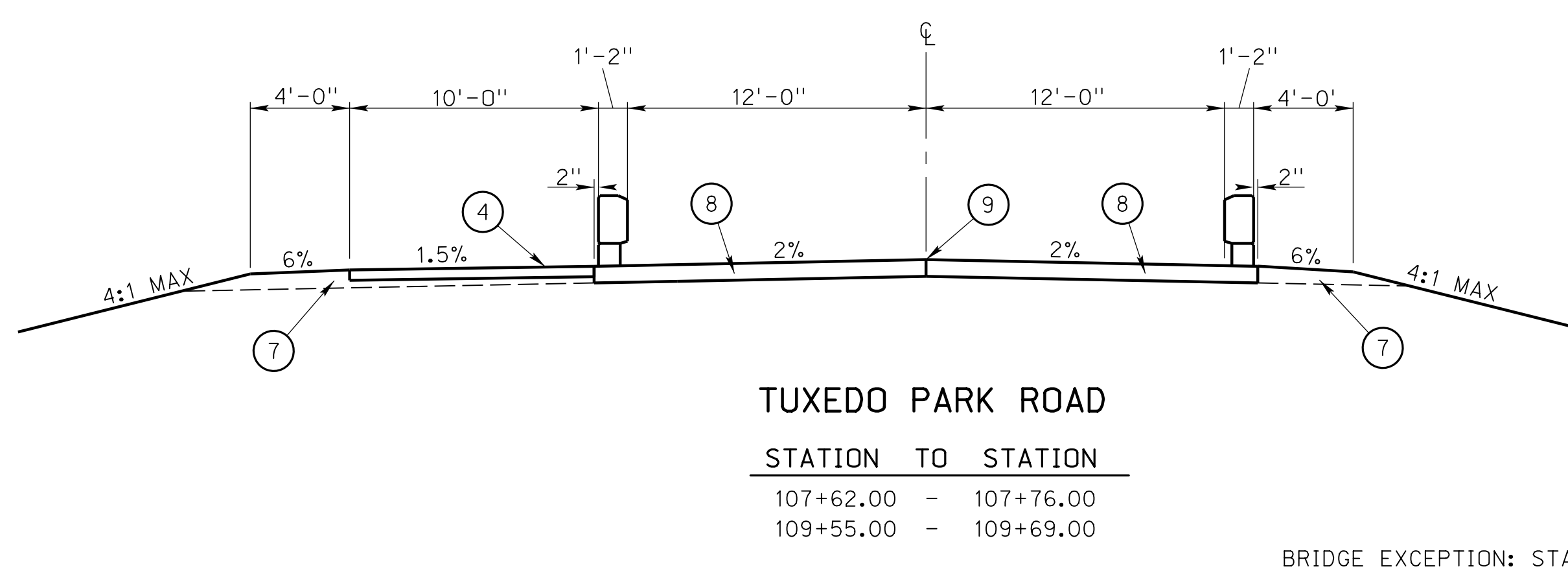
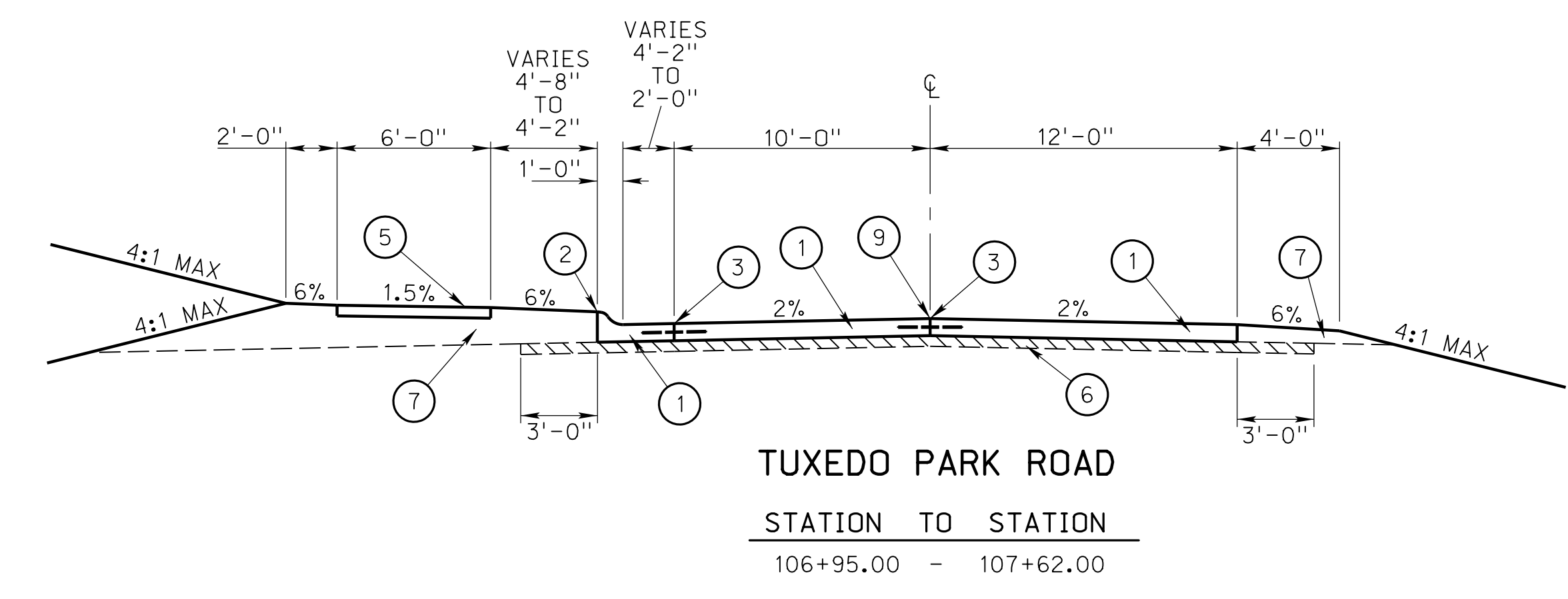
DESIGN SPEED: 25 MPH

TENTATIVE LETTING: August 2020
 BALANCE FACTOR TO BE USED: 1.35

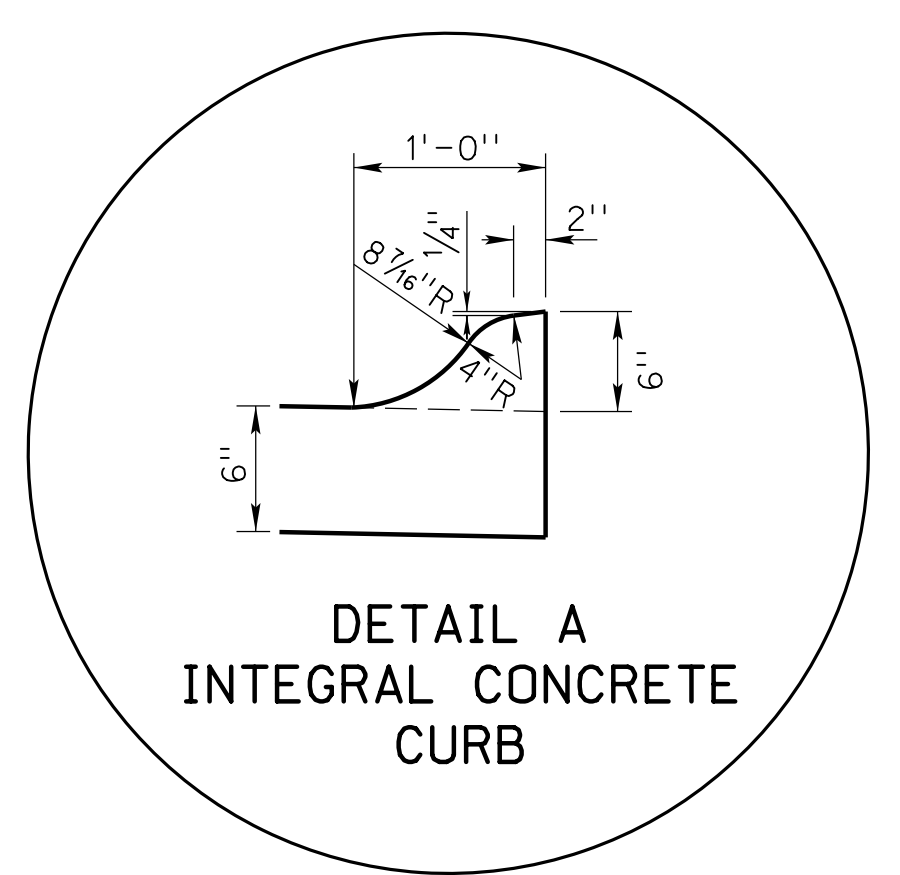
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 Computer: LIN2018-07-D1
 CONSTRUCTION DIVISION

TYPICAL CROSS SECTIONS



- LEGEND**
- ① 6" CONCRETE PAVEMENT
 - ② 6" INTEGRAL CURB, SEE DETAIL A
 - ③ LONGITUDINAL JOINT
 - ④ 5" BIKEWAY
 - ⑤ 4" SIDEWALK
 - ⑥ SUBGRADE PREPARATION
 - ⑦ EARTH SHOULDER CONSTRUCTION
 - ⑧ BRIDGE PAVING SECTION
 - ⑨ PROFILE GRADE POINT



ROADWAY DESIGN DIVISION

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User: sIrons

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ROADWAY DESIGN DIVISION

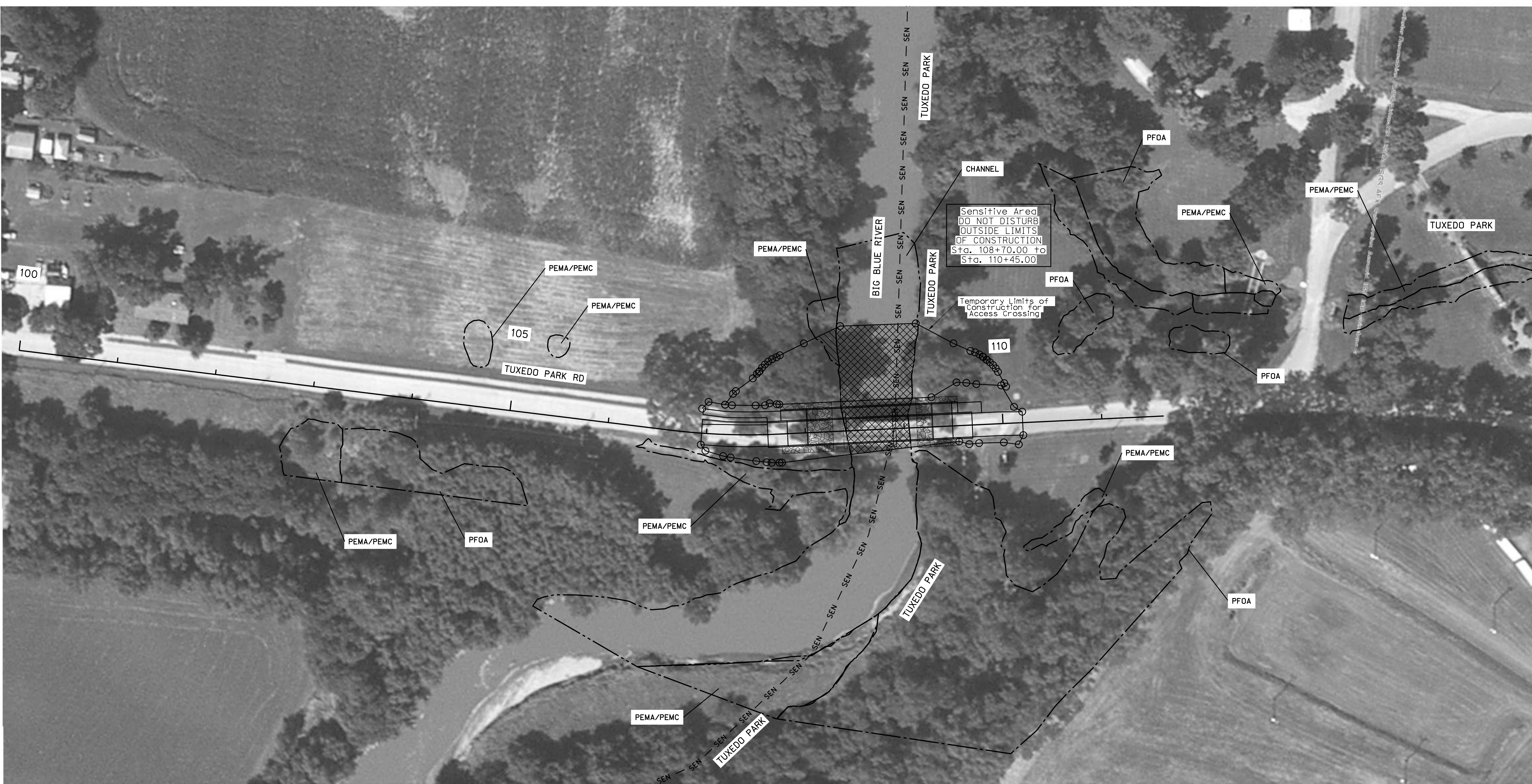
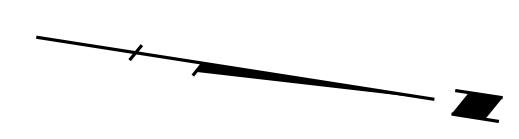
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User: sIrons

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SEC. 28 T8N R4E

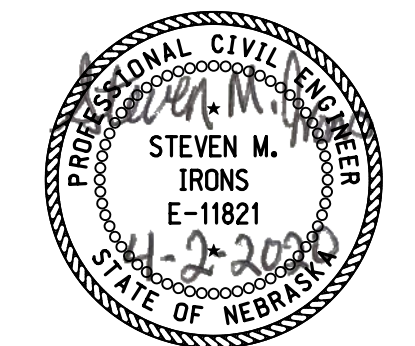


SEC. 27 T8N R4E

TUXEDO PARK RD

SALINE COUNTY

- LEGEND**
- LIMITS OF CONSTRUCTION
 - - - WETLANDS - DO NOT DISTURB
 - /// IMPACTED CHANNEL
 - /// TEMPORARY IMPACTED WETLANDS
 - /// TEMPORARY IMPACTED CHANNEL
 - /// TYPE "B" RIPRAP
 - - - SENSITIVE AREA - DO NOT DISTURB



DATE: 7-20-2016
FLIGHT:
SCALE:

ROADWAY DESIGN DIVISION

Computer: LIN2018-07-D1

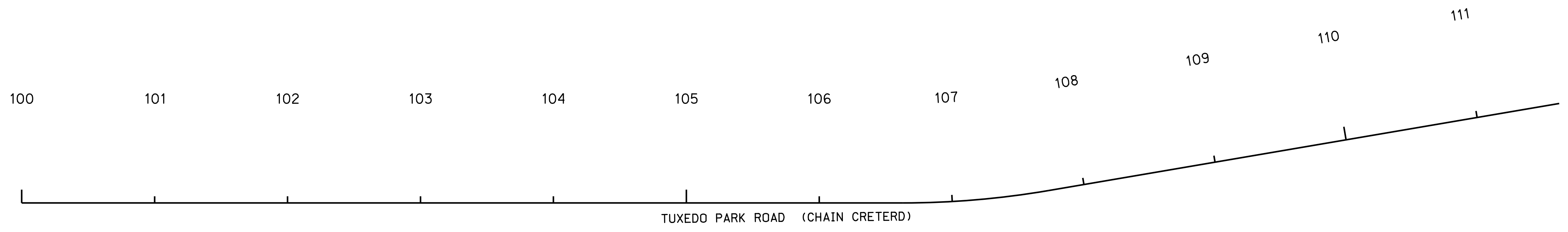
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File: 133610ch02.dgn
Scale: 1:50

PROJECT NO. 7076(24)	SHEET NO. F1
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DATUM INFORMATION
 HORIZONTAL = NAD83(1995)
 VERTICAL = NAVD 88
 DAF = 1.0002948



 Beginning chain CRETERD description

 Point 10005 X 2,481,613.4357 Y 303,469.3501 Sta 100+00.00
 Course from 10005 to PC 10001 N 1° 53' 53.88" W Dist 662.8072

Curve Data

P.I. Station	107+17.80	X	2,481,589.6581	Y	304,186.7580
	Delta	=	9° 40' 19.99"	(LT)	
	Degree	=	8° 48' 53.05"		
	Tangent	=	54.9946		
	Length	=	109.7279		
	Radius	=	650.0000		
	External	=	2.3223		
	Long Chord	=	109.5976		
	Mid. Ord.	=	2.3140		
P.C. Station	106+62.81	X	2,481,591.4799	Y	304,131.7936
P.T. Station	107+72.54	X	2,481,578.6277	Y	304,240.6350
C.C.		X	2,480,941.8366	Y	304,110.2620
	Back	= N	1° 53' 53.88"	W	
	Ahead	= N	11° 34' 13.87"	W	
	Chord Bear	= N	6° 44' 03.87"	W	

Course from PT 10001 to 10008 N 11° 34' 13.87" W Dist 390.1289

Point 10008 X 2,481,500.3780 Y 304,622.8360 Sta 111+62.66

 Ending chain CRETERD description

GEOPAK ALIGNMENT INFORMATION		
ALIGNMENT	CHAIN	PROFILE
TUXEDO PARK RD	CRETERD	PROCRETERD



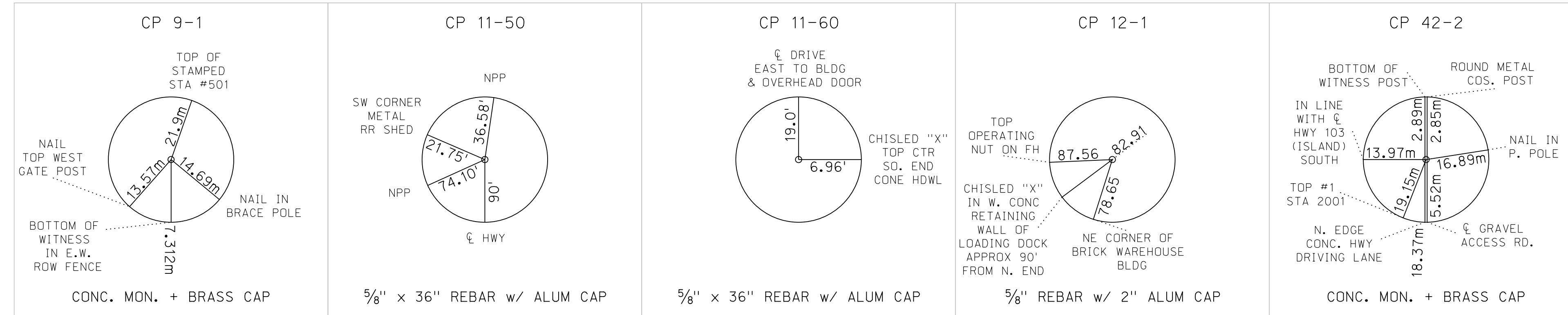
HORIZONTAL ALIGNMENT AND ORIENTATION

CONTROL POINT TIES

DATUM INFORMATION

HORIZONTAL = NAD 83 (1995)
VERTICAL = NAVD 88
DAF = 1.0002948

PROJECT NO.	SHEET NO.
BRM-7076(24)	F2
C.N. 13361	

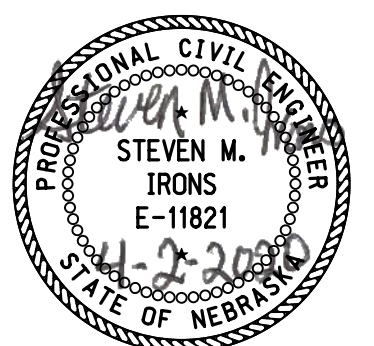


CONTROL POINT DATA

CONTROL POINT	X	Y	Z	STATION	OFFSET
CP 9-1	2475854.675	301687.973	-	Off Chain	Off Chain
CP 11-50	2486783.658	306181.438	1368.430	Off Chain	Off Chain
CP 11-60	2486756.035	307902.322	1371.600	Off Chain	Off Chain
CP 12-1	2487581.347	306762.726	1372.842	Off Chain	Off Chain
CP 42-2	2478175.436	302231.130	1375.219	Off Chain	Off Chain

BENCH MARKS

NO.	X	Y	Z	DESCRIPTION
BM 12-A	2487358.514	306528.860	1374.734	EXISTING CITY F.N.
BM 12-B	2487519.047	306701.640	1374.905	"M" IN MUELLER ON EX F.N.



GENERAL INFORMATION

NOTES

- The locations of all aerial and underground utility facilities may not be indicated in these plans. Underground utilities, whether indicated or not will be located and flagged by the Utilities at the request of the Contractor.

No excavation will be permitted in the area of underground utility facilities until all such facilities have been located and identified to the satisfaction of all parties. The excavation must be accomplished with extreme care in order to avoid any possibility of damage to the utility facility.

- The Contractor is responsible to ensure all excavation is made in accordance with the Occupational Safety and Health Administration (OSHA) Construction Standards - 29 CRF part 1926, subpart P-Excavations, as published in the Federal Register, vol. 54, 209, Tuesday October 31, 1989, Rules and Regulations. In addition, it shall be the Contractor's responsibility to be familiar with OSHA standards and regulations pertaining to all aspects of the work including entering confined spaces.

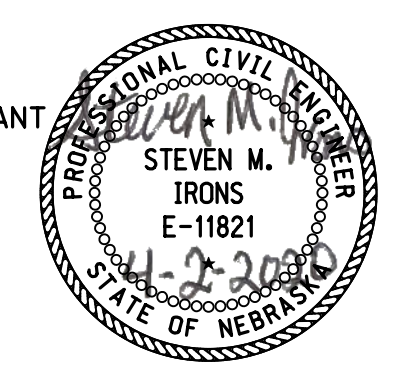
FOR INFORMATION ONLY

- The Contractor may obtain material for Shoulder and Embankment Construction from Excess Excavation.
- The Contractor will be required to furnish Waste Areas for Excess Excavation on this Project.
- SENSITIVE AREAS
Sensitive Areas are designated on the Environmental Plans. The contractor may not complete grading or project activities, including but not limited to, working, staging, borrowing, stockpiling, or storing material and/or equipment outside the designated limits of construction and temporary easements within Crete Tuxedo Park from Sta. 108+70 to Sta. 110+45 Lt. and Rt.

EARTHWORK QUANTITIES		
STATION TO STATION	EXCAVATION (Established Quantity) (CU. YDS.)	EMBANKMENT (CU. YDS.)
106+95.00 - 110+20.00	442	67
TOTAL	442	67

LEGEND

- G --- GAS LINE
- E --- ELECTRICAL SERVICE
- P — POWER LINE
- OP — OVERHEAD POWER LINE
- SAN — SANITARY SEWER
- SS — STORM SEWER
- T — TELEPHONE LINE
- FO — FIBER OPTIC TELE. LINE
- OT — OVERHEAD TELEPHONE LINE
- TV — CABLE TV LINE
- OTV — OVERHEAD CABLE TV LINE
- W — WATER LINE
- — FENCE - CHAIN LINK
- x — FENCE - R.O.W. OR WIRE
- □ — FENCE - WOOD
- — — FLOWLINE
- — — CENTER LINE DRIVE
- ⊕ BENCH MARK
- ⊙ CENTER PIVOT
- ⊙ CONTROL POINT
- XXXXXXXXX DIKE
- ⊙ GAS METER
- ⊗ GAS VALVE
- ⊕ GRID TICK
- ⋯ GUARDRAIL
- GUARD POST
- GUY POLE
- GUY WIRE
- ☀ OR ☀ LIGHT POLE
- ⊠ MAILBOX
- ⊙ MANHOLE
- ⋯ MARSH
- ⊠ OIL WELL
- ⬡ PHOTO CODE POINT
- ⊠ POWER BOX
- POWER POLE
- ⊕ POWER PULL BOX
- PROPANE TANK
- ⊙ R.O.W. MARKER
- ⊙ ADVANCED R.R. WARNING SIGN
- ⚡ RAILROAD WARNING
- ⋯ RAILROAD TRACKS
- RETAINING WALL
- ☾ SATELLITE DISH
- ⊠ SIGN
- ☀ TRAFFIC SIGNAL
- ☀ TRAFFIC SIGNAL/ST. LIGHT
- ⊠ TELEPHONE BOX
- ⊠ TELE. FIBER OPTICS BOX
- ⊠ TELEPHONE PULL BOX
- TELEPHONE POLE
- ⊠ TELEVISION BOX
- ☀ TREE - CONIFEROUS
- TREE - DECIDUOUS
- ⊠ TREE STUMP
- WATER (FIRE) HYDRANT
- ⊗ WATER VALVE
- ⊕ WATER METER
- ⊠ WELL
- ⊠ WINDMILL



ROADWAY DESIGN DIVISION

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User: sIrons

Date: 26-MAR-2020 15:48

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GENERAL INFORMATION

PROJECT NO. 7076(24)	SHEET NO. G2
C.N. 13361	

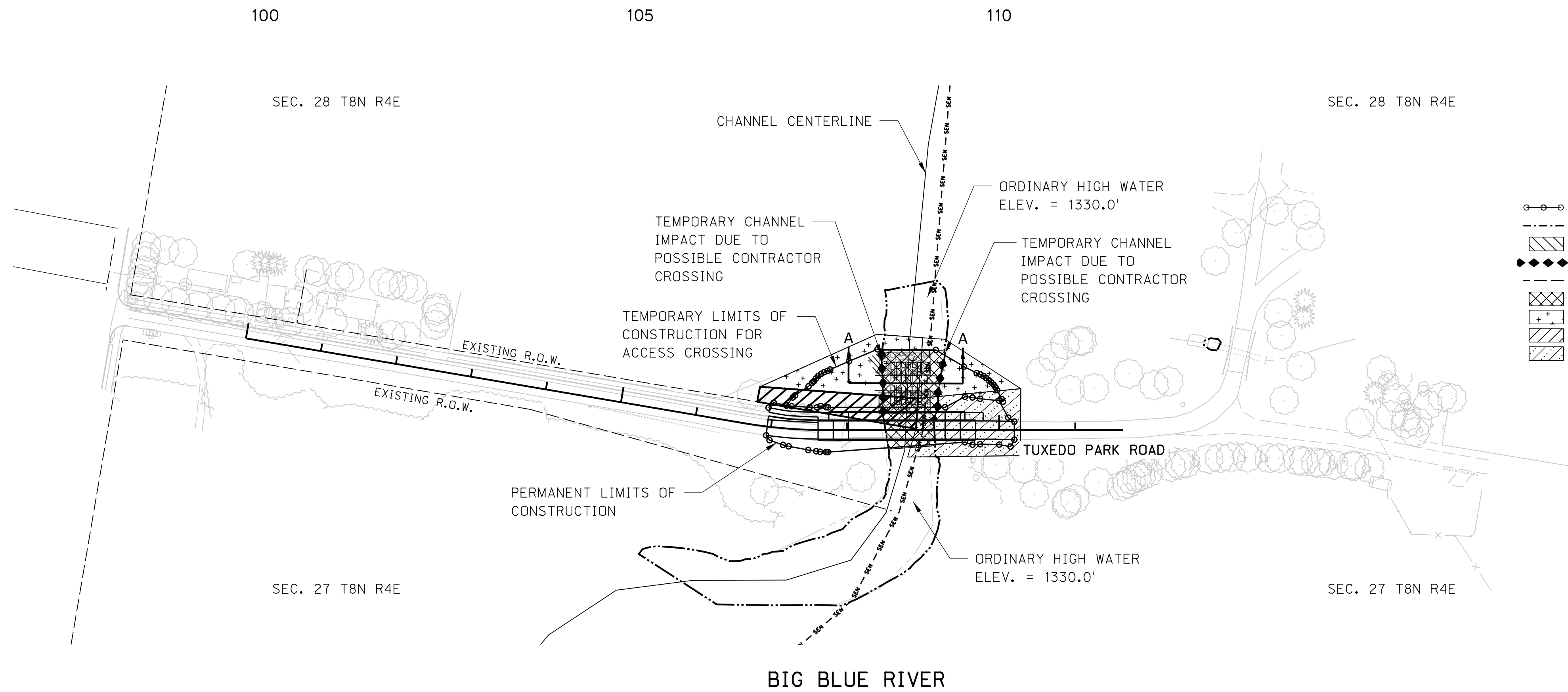
ROADWAY DESIGN DIVISION

Computer: LIN2018-07-D1

User: sIrons

Date: 26-MAR-2020 15:48

File: 133610crn02.dgn
Scale: 1:100



LEGEND

- LIMITS OF CONSTRUCTION
- - - WETLANDS - DO NOT DISTURB
- ▨ TEMPORARY IMPACTED WETLANDS
- ◆◆◆ TEMPORARY CHANNEL DISTURBANCE
- - - EXISTING ROW
- ▨ TEMPORARY IMPACTED CHANNEL
- NEW TEMPORARY EASEMENT
- ▨ NEW ROW
- ▨ DECLARATION OF USE

RESTRICTED USE AREAS

RESTRICTED USE AREAS ARE DESIGNATED ON THE PLANS FROM THE EDGE OF PAVEMENT TO THE ROW LINE. THIS WILL PROTECT WATERS OF THE STATE, CRITICAL HABITAT, AND/OR OTHER SENSITIVE RESOURCES. CONSTRUCTION ACTIVITIES IN THESE AREAS ARE LIMITED TO THOSE REQUIRED TO BUILD THE PROJECT AS SPECIFIED IN THE CONTRACT.

RESTRICTED USE AREAS MAY NOT BE USED FOR:

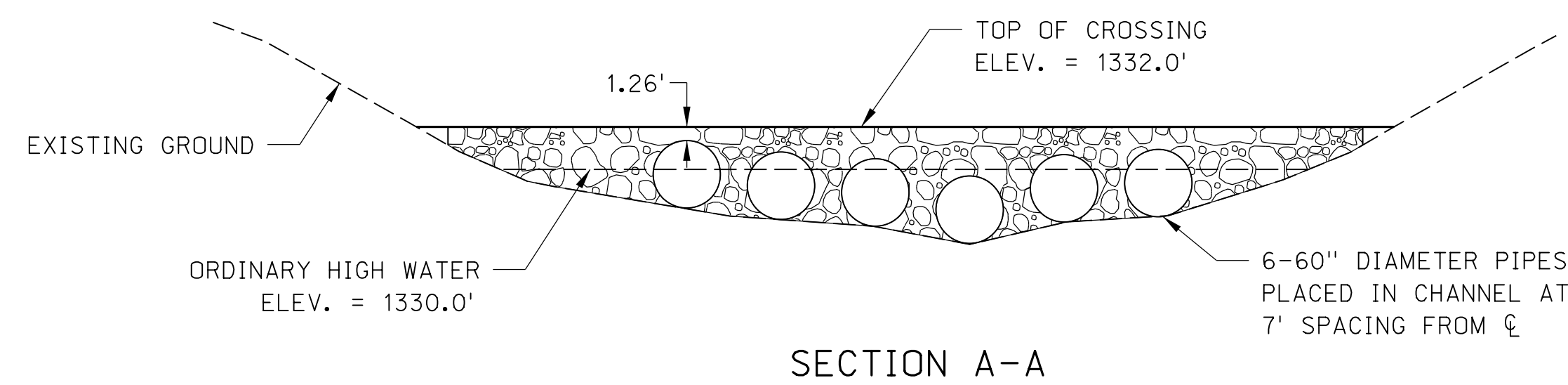
1. EQUIPMENT STORAGE AND MAINTENANCE, WITH THE EXCEPTION OF CRANES
2. STOCKPILE OF CONSTRUCTION AND EXCAVATED MATERIALS, UNLESS THEY ARE PROTECTED WITH ADEQUATE BMPs AND KEPT BACK FROM WATERS OF THE STATE.
3. SANITARY FACILITIES
4. MIXING OR STORAGE OF ANY HAZARDOUS MATERIALS
5. CONCRETE WASHOUT

NOTE:

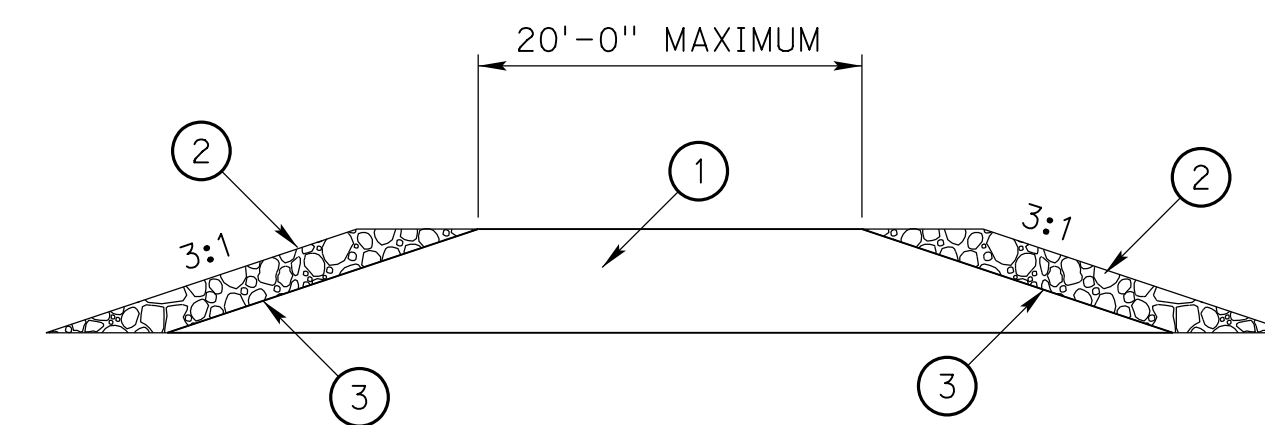
BRIDGE CONTRACTOR IS ALLOWED TO WORK WITHIN THE ROW AND TEMPORARY LIMITS OF CONSTRUCTION SHOWN ON THIS SHEET.

THE AREA BELOW THE ORDINARY HIGH WATER ELEVATION IS TO BE IMPACTED ONLY DURING THE OPERATION REQUIRED TO BUILD, MAINTAIN AND REMOVE THE CONTRACTOR CROSSING.

THE CONTRACTOR IS ALLOWED TO CONSTRUCT ONLY ONE STREAM CROSSING AT THE LOCATION.



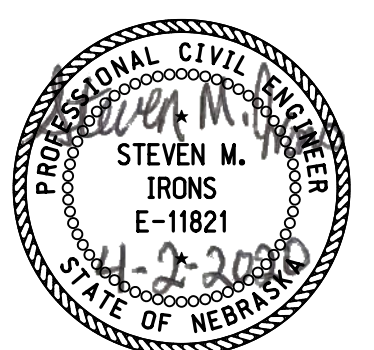
SECTION A-A



DETAIL OF TYPICAL SECTION OF CROSSING

LEGEND

- ① MATERIAL SHALL BE CLEAN EARTHEN FILL.
- ② MINIMUM 2'-0" CLASS B ROACK RIPRAP OR BROKEN CONCRETE RIPRAP THAT MEETS THE REQUIREMENTS OF THE STATE STANDARD SPECIFICATIONS.
- ③ FILTER FABRIC



ACCESS CROSSING

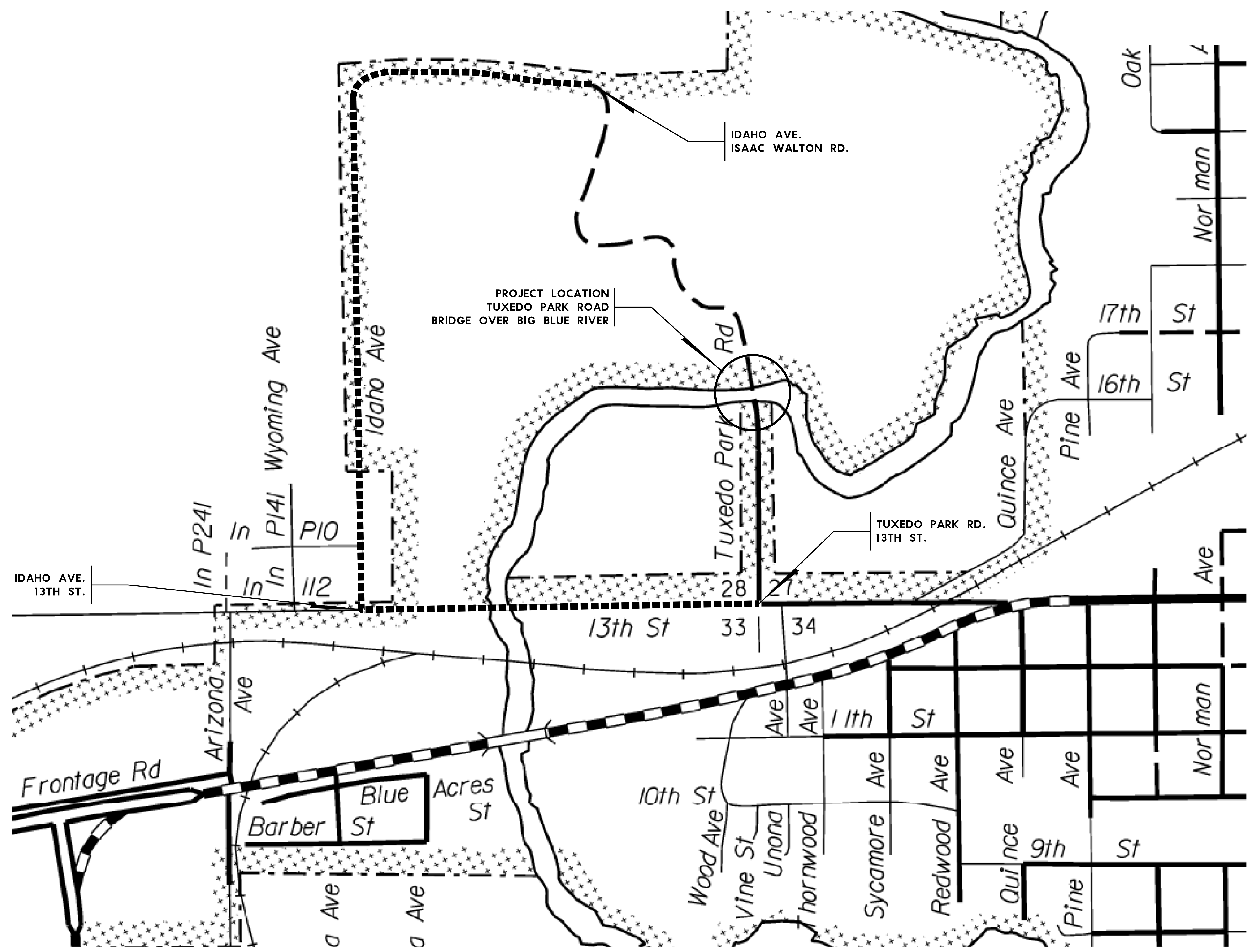
ROADWAY DESIGN DIVISION

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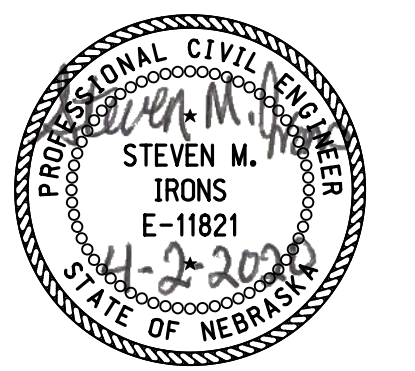
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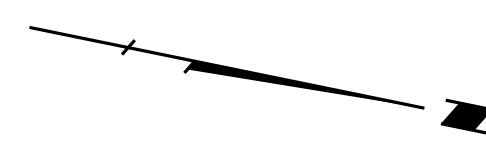


LEGEND
 ■■■■■ PROPOSED
 DETOUR ROUTE



DETOUR

SEC. 28 T8N R4E



ROADWAY DESIGN DIVISION.

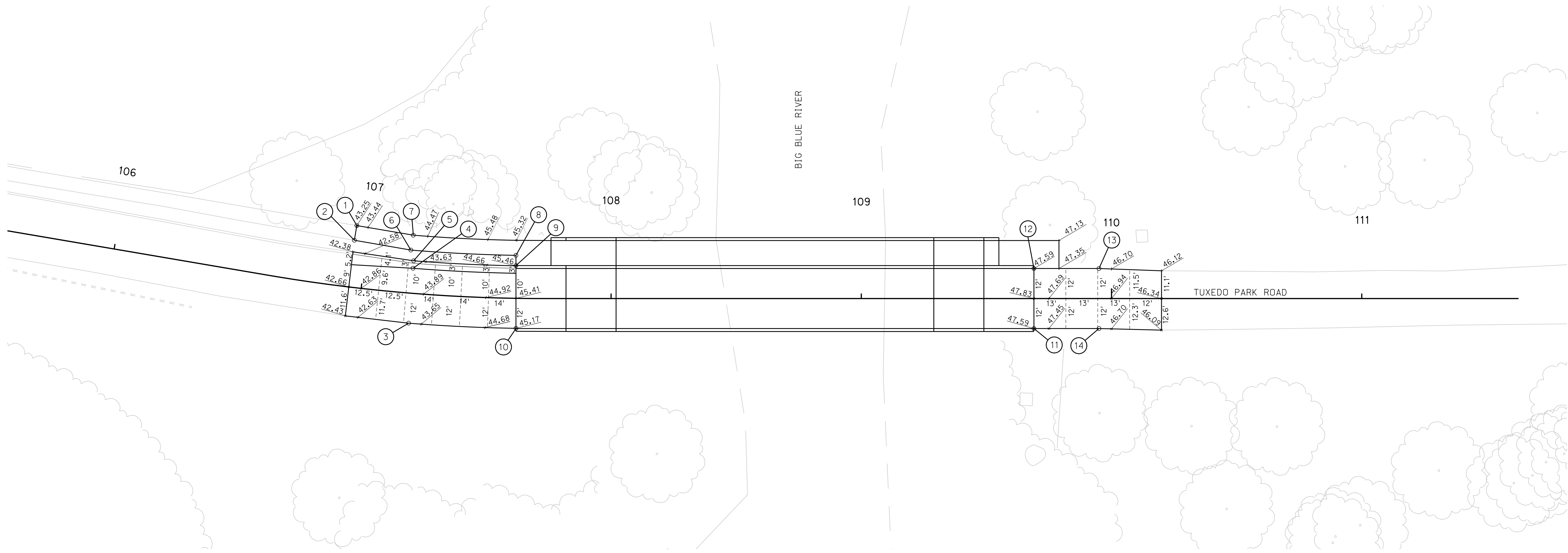
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User: sIrons

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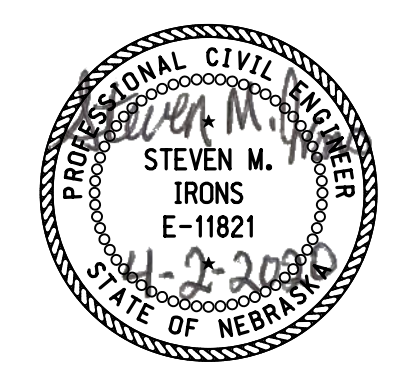
BIG BLUE RIVER



SEC. 27 T8N R4E

LEGEND	
---	LONGITUDINAL JOINT (TIED)
- - - - -	CONTRACTION JOINT
—	EXPANSION JOINT
FOR DETAILS NOT SHOWN SEE SPECIAL PLAN 1C	

- | | |
|---|---|
| ① POINT 24.71' LT. STA. 106+95.29
X=2481564.97 Y=304162.17 | ⑧ POINT 17.17' LT. STA. 107+61.71
X=2481563.83 Y=304226.85 |
| ② POINT 18.80' LT. STA. 106+95.00
X=2481570.88 Y=304162.38 | ⑨ POINT 13.00' LT. STA. 107+61.78
X=2481567.92 Y=304227.69 |
| ③ POINT 12.00' RT. STA. 107+20.00
X=2481598.99 Y=304190.25 | ⑩ POINT 12.00' RT. STA. 107+62.19
X=2481592.41 Y=304232.70 |
| ④ POINT 10.00' LT. STA. 107+20.00
X=2481577.15 Y=304187.59 | ⑪ POINT 12.00' RT. STA. 109+69.00
X=2481550.98 Y=304435.51 |
| ⑤ POINT 13.00' LT. STA. 107+20.00
X=2481574.17 Y=304187.23 | ⑫ POINT 12.00' LT. STA. 109+69.00
X=2481527.47 Y=304430.70 |
| ⑥ POINT 17.17' LT. STA. 107+18.50
X=2481570.21 Y=304185.27 | ⑬ POINT 12.00' LT. STA. 109+95.00
X=2481522.25 Y=304456.17 |
| ⑦ POINT 23.17' LT. STA. 107+19.01
X=2481564.19 Y=304185.05 | ⑭ POINT 12.00' RT. STA. 109+95.00
X=2481545.76 Y=304460.99 |



GEOMETRICS, JOINTS & GRADES

SEC. 28 T8N R4E

REMOVE PAVEMENT			
STATION	TO	STATION	SQ. YDS.
106+95.00	-	108+06.07	323
109+27.64	-	110+20.00	241

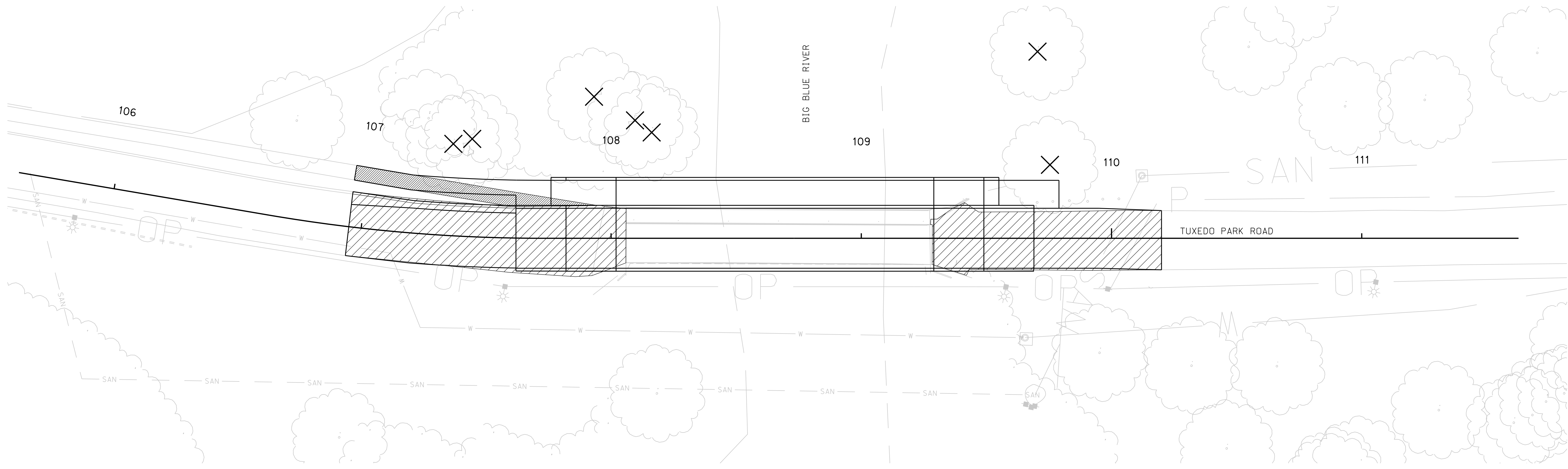
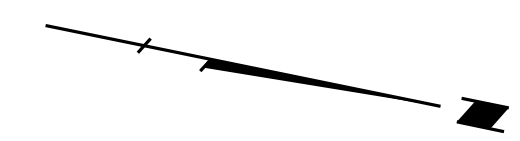
REMOVE WALK			
STATION	TO	STATION	SQ. YDS.
106+95.00	-	107+94.28	53

REMOVE GUARDRAIL			
STATION	TO	STATION	LIN. FT.
107+92	-	108+03	14

REMOVE DELINEATOR UNITS			
STATION	SIDE	EACH	
109+64	Lt.	1	
109+70	Lt.	1	
109+77	Lt.	1	
109+83	Lt.	1	
109+97	Lt.	1	
110+03	Lt.	1	

REMOVE SIGN & POST			
STATION	SIDE	EACH	
107+17	Rt.	1	
107+72	Rt.	1	
107+99	Rt.	2	
108+03	Rt.	1	
109+90	Lt.	2	
110+61	Lt.	1	

REMOVE STRUCTURE		
STATION	SIDE	DESCRIPTION
108+65.50	Lt. & Rt.	121'-0" Single Span Steel Thru-Truss Bridge W/ 15.5' Roadway and 6' Pedestrian Walkway.



BUILD 6" CONCRETE PAVEMENT, SPECIAL PLAN 1C			
STATION	TO	STATION	SQ. YDS.
106+95.00	-	107+62.00	187
109+69.00	-	110+20.00	136

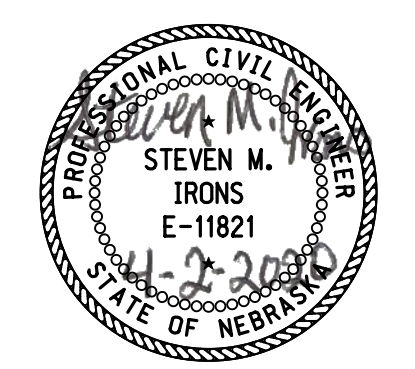
BUILD CONCRETE SIDEWALK, PLAN 301				
STATION	TO	STATION	SIDE	SQ. YDS.
106+95.00	-	107+62.00	Lt.	43

BUILD 5" CONCRETE BIKEWAY, CLASS 47B-3000 SEE SHEET B				
STATION	TO	STATION	SIDE	SQ. YDS.
107+62.00	-	107+76.00	Lt.	16
109+55.00	-	109+79.00	Lt.	28

BUILD STRUCTURE, SPECIAL PLAN 1		
STATION	STRUCTURE NO.	DESCRIPTION
108+65.50	U062044305	125'-0" 3-Span Concrete Slab Bridge W/ 24' Roadway and 10' Pedestrian Walkway.

REMOVE TREE			
STATION	SIDE	SIZE	EA
107+33.69	39' Lt.	18"	*
107+41.52	41' Lt.	24"	1
107+41.52	41' Lt.	36"	1
107+93.59	60' Lt.	30"	1
108+10.52	50' Lt.	30"	1
108+17.11	45' Lt.	30"	1
109+70.55	75' Lt.	24"	1
109+76.10	30' Lt.	8"	*

* FOR INFORMATION ONLY



ROADWAY DESIGN DIVISION.

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SEC. 27 T8N R4E

CONSTRUCTION & REMOVALS

SEC. 28 T8N R4E

BUILD EROSION CONTROL-CLASS 1D, PLAN 501					
STATION TO	STATION	SIDE	DESCRIPTION	WIDTH	SQ. YDS.
106+95	- 108+46	Lt.	Backslope	Varies	745
106+95	- 108+50	Rt.	Foreslope	Varies	220
109+07	- 110+20	Lt.	Foreslope	Varies	646
109+09	- 109+13	Rt.	Foreslope	Varies	9
109+55	- 110+20	Rt.	Foreslope	Varies	48

BUILD FABRIC SILT FENCE-LOW POROSITY, PLAN 502				
STATION TO	STATION	SIDE	DESCRIPTION	LIN. FT.
107+55	- 108+42	Lt.	6 Ft. Beyond Toe of Slope	100
107+95	- 108+40	Lt.	Toe of Slope	50
106+95	- 108+07	Rt.	2 Ft. Beyond Toe of Slope	175
109+10	- 110+20	Lt.	6 Ft. Beyond Toe of Slope	125
109+06	- 110+28	Rt.	6 Ft. Beyond Toe of Slope	125

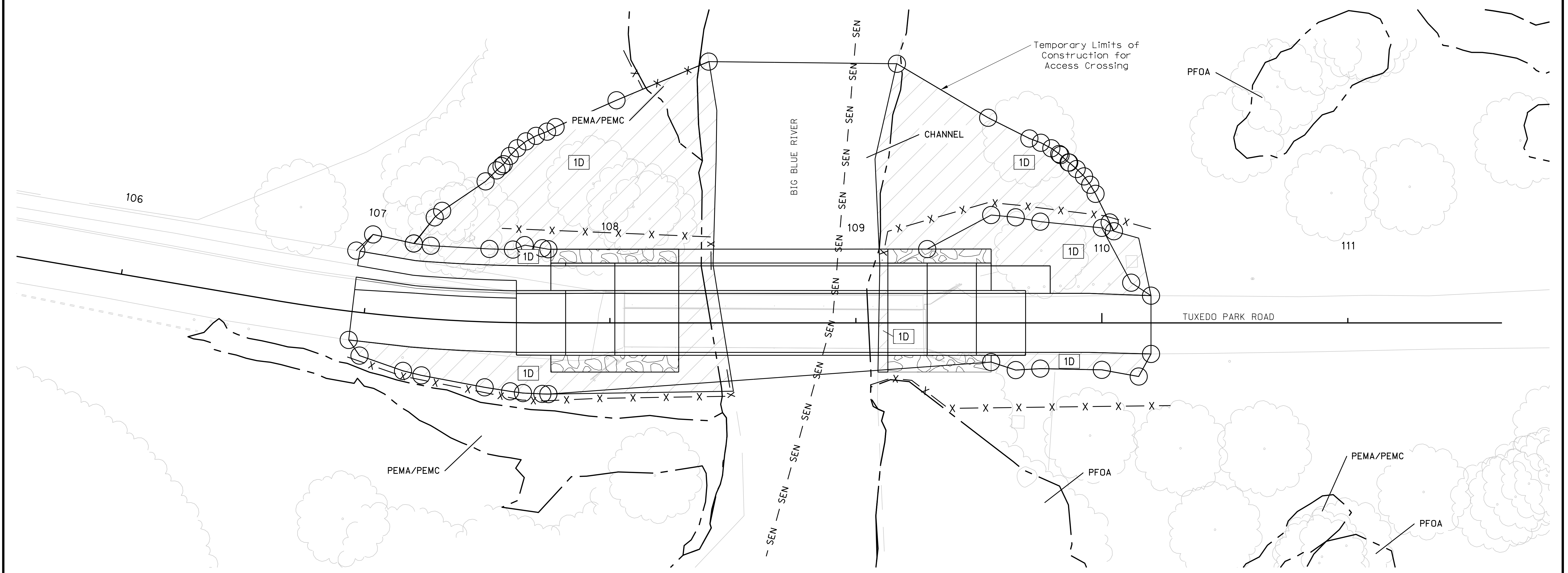
ROADWAY DESIGN DIVISION.

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User: sIrons

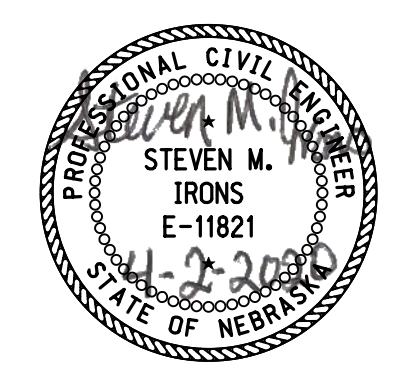
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Scale: 1:20



SEC. 27 T8N R4E

- LEGEND**
- LIMITS OF CONSTRUCTION
 - WETLANDS - DO NOT DISTURB UNIMPACTED WETLANDS, SEE SHEET 2-W

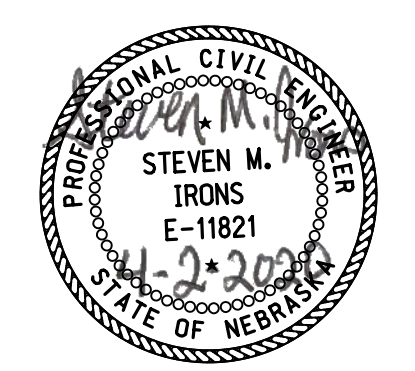
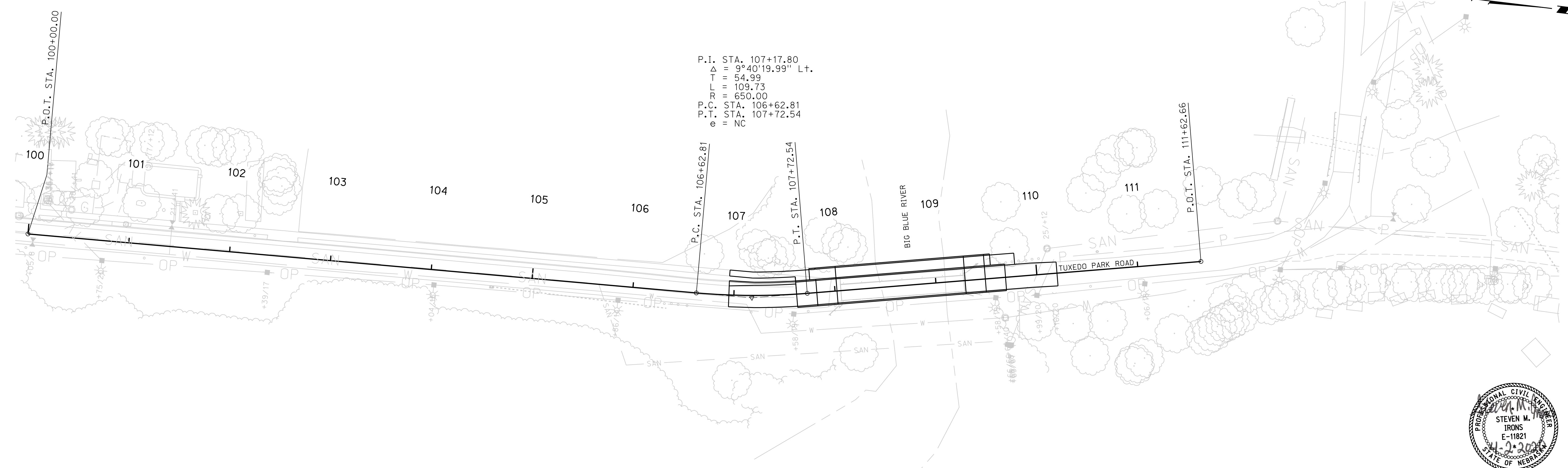


EROSION & SEDIMENT CONTROL

For Details not shown see J Sheets

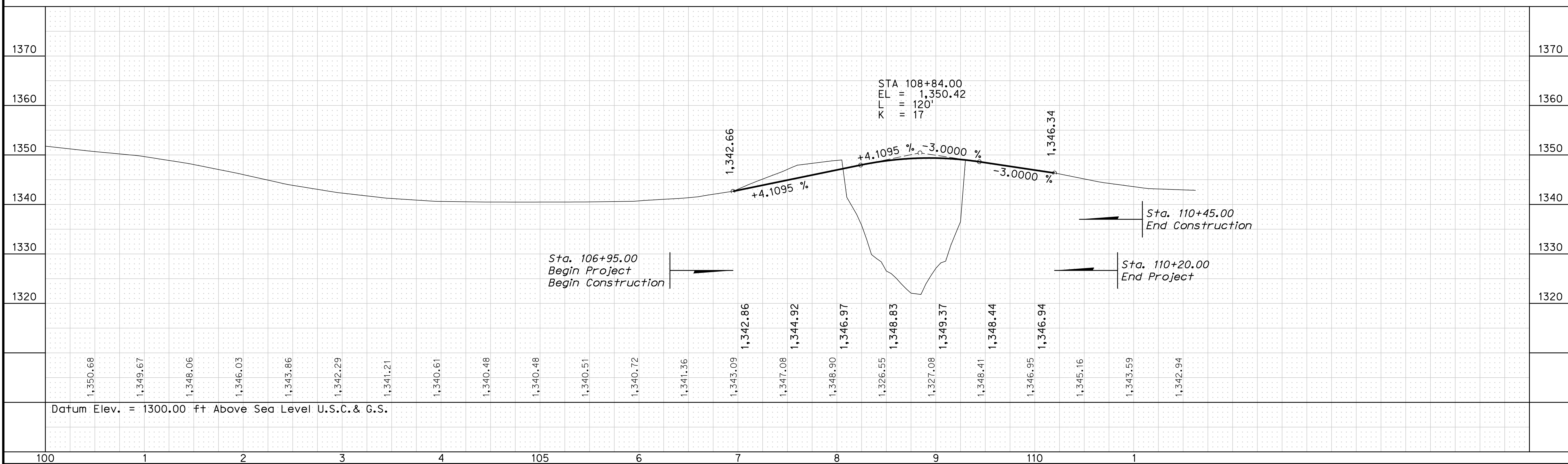
SEC. 28 T8N R4E

P.I. STA. 107+17.80
 $\Delta = 9^{\circ}40'19.99''$ Lt.
 T = 54.99
 L = 109.73
 R = 650.00
 P.C. STA. 106+62.81
 P.T. STA. 107+72.54
 e = NC



TUXEDO PARK ROAD

SEC. 27 T8N R4E



ROADWAY DESIGN DIVISION.

Computer: LIN2018-07-D1

User: sifrons

Date: 26-MAR-2020 15:48

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ROADWAY DESIGN DIVISION.

BASELINE/TAB NAME: BASELINE: CRETERD

Station	CUT AREA Sq.Ft.	Excavation ADDED CUT Cu.Yds.	TOTAL CUT-VOL Cu.Yds.	FILL AREA Sq.Ft.	ADDED FILL Cu.Yds.	Embankment TOTAL FILL-VOL Cu.Yds.	BALANCE FACTOR	ADJUSTED FILL-VOL Cu.Yds.	MASS ORDINATE Cu.Yds.
107+00.00	34.2	0.00	0	0.0	0.00	0	1.00	0	0
107+17.67	57.8	0.00	30	0.0	0.00	0	1.00	0	30
107+25.00	69.1	0.00	17	0.0	0.00	0	1.00	0	47
107+50.00	121.4	0.00	88	0.0	0.00	0	1.00	0	135
107+60.00	149.4	0.00	50	0.0	0.00	0	1.00	0	185
107+65.00	147.3	0.00	27	0.0	0.00	0	1.00	0	212
107+72.54	142.6	0.00	40	0.0	0.00	0	1.00	0	252
107+75.00	139.9	0.00	13	0.0	0.00	0	1.00	0	265
*****SKIP STATION RANGE = 108+02.00 to 109+29.00*****									
109+55.00	11.9	0.00	149	35.8	0.00	35	1.00	35	379
109+65.00	14.0	0.00	5	26.5	0.00	12	1.00	12	372
109+75.00	15.4	0.00	5	16.1	0.00	8	1.00	8	369
110+00.00	11.4	0.00	12	5.0	0.00	10	1.00	10	371
110+15.00	10.9	0.00	6	0.5	0.00	2	1.00	2	375

+ GRAND SUMMARY TOTALS									

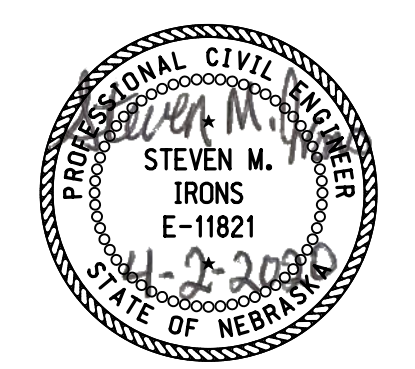
+ Unadjusted Adjusted Mult									
+ Volume Volume Factor									
+ (cu. yd.) (cu. yd.)									
+ -----									
+ Excavation 442 442 1.00									
+ Fill 67 67 1.00									
+ -----									

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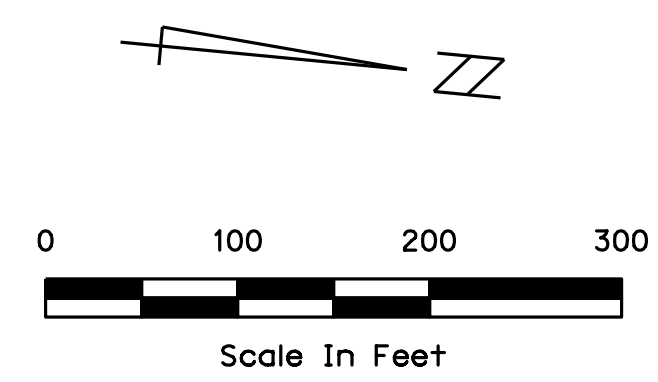
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PROJECT NO.	7076(24)	SHEET NO.	W1
ROW PROJECT NO.			
LOCATION	Crete Tuxedo Park Road		
COUNTY	Saline		
CONTROL NO.	13361	ROW SHEET NO.	
FINALIZED PROJECT NO.			



SEC. 33 T8N R4E

SEC. 28 T8N R4E

RODNEY A HARTWIG
PART OF SE4SE4
SEC. 28
(APPROX 0.25 ACRE)

ISIDRO ROMERO
PART OF SE4SE4
SEC. 28
(APPROX 0.27 ACRE)

NORMAN L ARNETT
PART OF SE4SE4
SEC. 28
(APPROX 0.42 ACRE)

TRACT 1
RODNEY A HARTWIG
PART OF SE4SE4
SEC. 28
(APPROX 2.45 ACRES)

PBS AIRCRAFT
CO., INC.
PART OF SW4SW4
SEC. 27
(APPROX 0.77 ACRE)

CRETE BICENTENNIAL SOCIETY
PART OF SW4SW4
SEC. 27
(APPROX 2.64 ACRES)

SEC. 34 T8N R4E

SEC. 27 T8N R4E

LEGEND

- NEW CONTROLLED ACCESS
- PREVIOUS CONTROLLED ACCESS
- LIMITS OF CONSTRUCTION
- PREVIOUS R.O.W.
- NEW R.O.W.
- EXISTING PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXCESS TAKING
- PERMANENT EASEMENT
- EXISTING RAILROAD EASEMENT
- NEW RAILROAD PERMANENT EASEMENT
- NEW RAILROAD TEMPORARY EASEMENT
- DECLARATION OF USE

P.I. STA. 107+17.80
 $\Delta = 9^{\circ}40'19.99''$ Lt.
 T = 54.99
 L = 109.73
 R = 650.00
 P.C. STA. 106+62.81
 P.T. STA. 107+72.54
 e = NC

THESE PLANS ARE INTENDED TO SHOW DETAILS OF THE HIGHWAY RIGHT OF WAY. ALL OTHER DETAILS ARE SHOWN FOR INFORMATION ONLY. SEE CONSTRUCTION PLANS
Appraisal Plans
 PRELIMINARY RIGHT OF WAY PLANS
 SUBJECT TO CHANGE
 DATE: 3-25-2020

File: 133250crow01.dgn
 Scale: 1:100
 Date: 27-MAR-2020 08:23
 User: sifrons
 Computer: LIN2018-07-D1

RESOLUTION NO. 2020-14

A RESOLUTION OF THE CITY OF CRETE, NEBRASKA APPROVING THE PRELIMINARY PLANS, SPECIFICATIONS, AND ESTIMATES FOR THE TUXEDO PARK BRIDGE PROJECT.

WHEREAS, the City of Crete and the State of Nebraska Department of Transportation entered into an LPA Program Agreement for the State to assist the City in the development and construction of an LPA Federal-aid transportation project; and,

WHEREAS, the State or the design consultant for the project has developed the project plans, which are ready to submit for final edits for a bid letting; and,

WHEREAS, the LPA Program Agreement requires the City to review the preliminary plans, specifications, and estimates and either request modification or approve them as acceptable; and,

WHEREAS, to comply with the LPA Program Agreement, the City wishes to approve the preliminary plans, specifications, and estimates as prepared.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF CRETE, NEBRASKA:

Section 1. That the preliminary plans, specifications, and estimates provided by the State of Nebraska Department of Transportation for the Tuxedo Park Bridge Project are hereby approved as prepared.

Section 2. That the Mayor or his designee is authorized to execute any documents necessary for the approval and submission of the preliminary plans, specifications, and estimates for the Tuxedo Park Bridge Project.

NDOT Project Number: BRM-7076(24)

NDOT Control Number: 13361

NDOT Project Description: Crete Tuxedo Park Road

PASSED AND ADOPTED this 2nd day of June 2020.

Mayor

ATTEST:

City Clerk

RESOLUTION NO. 2020-13

A RESOLUTION OF THE CITY OF CRETE, NEBRASKA AUTHORIZING THE NEBRASKA DEPARTMENT OF TRANSPORTATION TO USE PUBLIC PROPERTY FOR THE TUXEDO PARK ROAD AND BRIDGE PROJECT.

WHEREAS, the City of Crete is the owner of a portion of the Southeast Quarter of Section 28 and a portion of the West half of Section 27 in Township 8 North, Range 4 East of the Sixth Principal Meridian in Saline County, Nebraska; and,

WHEREAS, said property is now being occupied by the City of Crete as Tuxedo Park and the City wishes to construct, operate, and maintain a road, bridge, and associated appurtenances across a portion of said property; and,

WHEREAS, the road, bridge, and associated appurtenances are to be constructed as part of Nebraska Department of Transportation project BRM-7076(24), Control Number 13361, and identified as Crete Tuxedo Park Road; and,

WHEREAS, to comply with Federal Highway Administration requirements found in 23 CFR 1.23(a) – “Interest to be acquired – The State shall acquire rights-of-way of such nature and extent as are adequate for the construction, operation, and maintenance of a project” – it is necessary for the City to declare that a portion of said property shall be used for the construction, operation, and maintenance of a road, bridge, and associated appurtenances.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF CRETE, NEBRASKA:

Section 1. That the Nebraska Department of Transportation is granted the use of a portion of the land specified above and commonly referred to as Tuxedo Park for the construction, operation, and maintenance of a road, bridge, and associated appurtenances, as more specifically shown and described on Exhibit A and as aligned in project plans and specifications for Nebraska Department of Transportation project BRM-7076(24), Control Number 13361, and identified as Crete Tuxedo Park Road.

Section 2. That the Mayor or his designee is authorized to execute any documents necessary for the grant or transfer of rights-of-way to the Nebraska Department of Transportation for use in the project specified above.

PASSED AND ADOPTED this 2nd day of June 2020.

Mayor

ATTEST:

City Clerk

**FINAL PLAT
BELOHLAVY ESTATES**

PART OF THE SW 1/4, SECTION 33, T8N, R4E OF THE
6th P.M., SALINE COUNTY, NEBRASKA

FIELD NOTES

"A" - Northeast Corner, SW 1/4
the southerly bank of the creek.
24.92' WNW to nail in disk in southeast side of 12" tree
310.67' E to 5/8" rebar on west side of the railroad right-of-way
All other ties gone due to flooding
Set steel "U" post on south side of corner

"B" - Southeast Corner, SW 1/4
7.64' N to aluminum cap
17.03' SE to aluminum cap
65.43' SE to aluminum cap
On range of fence line/crop line north

"C" - Northwest Corner, SW 1/4
5.0' W to centerline north-south gravel road
46.6' NE to iron bar
46.6' SE to iron bar
33.0' W to iron bar
33.0' E to iron bar

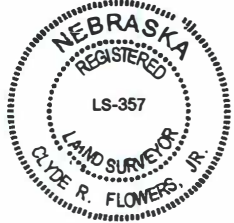
At "D", found iron bar as recorded on a plat by Brian D. Benck, L.S. #536, dated January 12, 1999. All the found monuments on the east right-of-way line of Highway #103 were set by John V. Berry, L.S. #535 in 2015. The death of a property owner caused a delay in the project and the final plat of the subdivision was not filed at that time.

LEGAL DESCRIPTION

A tract of land located in the SW 1/4 of Section 33, T8N, R4E of the 6th P.M., Saline County, Nebraska, more particularly described as follows:

Beginning at the northeast corner, SW 1/4 of Section 33, T8N, R4E of the 6th P.M., Saline County, Nebraska, and assuming the north line, SW 1/4 of Section 33 to have a bearing of S 89°43'59" W; thence S 89°43'59" W, 695.35 feet, to a point on the easterly right-of-way line of Hwy. No. 103; thence S 01°18'01" E on said easterly Hwy. No. 103 right-of-way, 830.80 feet; thence S 03°20'38" W on said right-of-way line, 83.26 feet; thence S 89°59'57" E on said right-of-way line, 18.98 feet; thence S 00°09'37" E on said right-of-way line, 180.10 feet; thence S 89°36'00" W on said right-of-way line, 29.46 feet; thence S 03°19'10" W on said right-of-way line, 61.14 feet; thence S 00°07'48" E on said right-of-way line, 122.20 feet, to the beginning of a 1844.86-foot radius curve concave northeasterly; thence southeasterly, on said 1844.86-foot radius curve, 1534.02 feet, to a point on the south line, SW 1/4 of Section 33; thence S 89°59'03" E on the south line, SW 1/4 of Section 33, 100.37 feet, to the southeast corner, SW 1/4 of Section 33; thence N 00°02'14" W, on the east line SW 1/4, 2645.82 feet, to the point of beginning, containing 36.20 acres, more or less.

I, the undersigned registered land surveyor in the state of Nebraska, do hereby certify that I have made a boundary survey of the subdivision herein, and that permanent markers have been placed on the boundary and that iron bars will be placed at all corners of all lots, streets, angle points and ends of all curves in BELOHLAVY ESTATES, being a platting of that part of the SW 1/4, SECTION 33, T8N, R4E of the 6th P.M., Saline County, Nebraska, described above.



Clyde R. Flowers, Jr.
Clyde R. Flowers, Jr., L.S. #357
GILMORE & ASSOCIATES, INC.

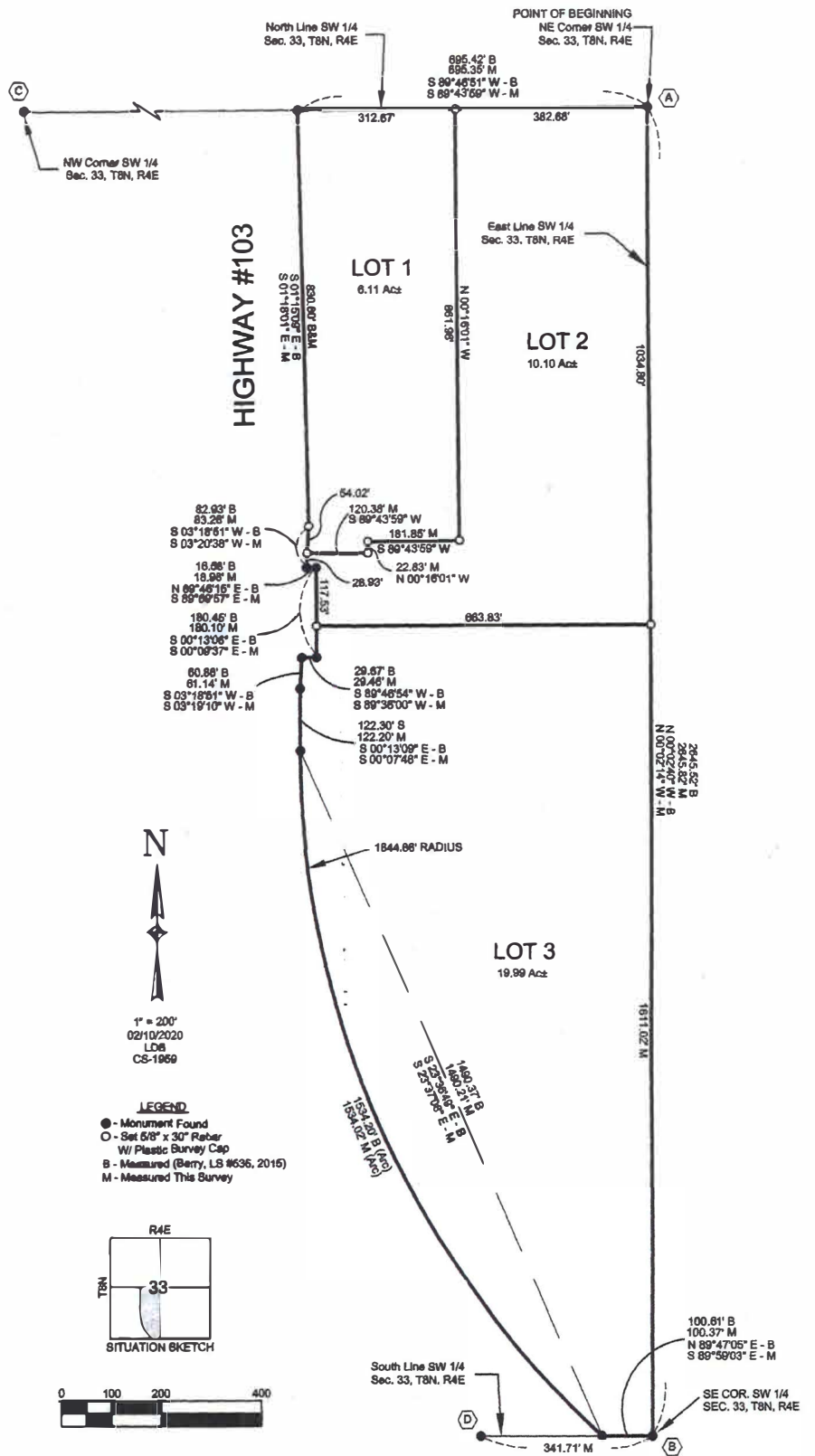
APPROVAL
Approval and accepted by the City Council of the City of Crete, Saline County, Nebraska by Ordinance No. N/A passed this 30th day of April, 2020.

Josh Mearns
City Clerk

PLANNING COMMISSION CERTIFICATION

The foregoing final plat was reviewed at public hearing by the Planning Commission of the City of Crete, Nebraska on this 23rd day of March, 2020.

David L. Hamer
Planning Commission Chairperson



DEDICATION

KNOW ALL PERSONS BY THESE PRESENTS: THAT I, JANICE BELOHLOVY, OWNER OF THE LAND DESCRIBED WITHIN THE SURVEYOR'S CERTIFICATE AND EMBRACED WITHIN THIS PLAT HAVE CAUSED SAID LAND TO BE SUBDIVIDED INTO LOTS AND STREETS, TO BE NUMBERED AND NAMED AS SHOWN, SAID SUBDIVISION TO BE HEREAFTER KNOWN AS BELOHLAVY ESTATES, AND I DO HEREBY DEDICATE THE EASEMENTS SHOWN THEREON FOR THE LOCATION, CONSTRUCTION, RECONSTRUCTION, REPLACEMENT, REPAIR, OPERATION AND MAINTENANCE OF PUBLIC SERVICE UTILITIES, OVER UPON OR UNDER THE EASEMENTS AS SHOWN ON THE FOREGOING PLAT. THE CONSTRUCTION OR LOCATION OF ANY BUILDINGS OR TREES SHALL BE PROHIBITED IN SAID EASEMENTS, BUT THE SAME MAY BE USED FOR GARDENS, SHRUBS, LANDSCAPING AND OTHER PURPOSES THAT DO NOT THEN OR LATER INTERFERE WITH THE AFORESAID USES OR RIGHTS HEREIN GRANTED.

WITNESS MY HAND THIS 14th DAY OF April, 2020.
Janice Belohlavy
JANICE BELOHLOVY

ACKNOWLEDGEMENT OF NOTARY

STATE OF NEBRASKA)
SALINE COUNTY) SS
ON THIS 14th DAY OF April, 2020, BEFORE ME THE UNDERSIGNED, A NOTARY PUBLIC DULY COMMISSIONED IN AND FOR SAID COUNTY AND STATE, PERSONALLY CAME JANICE BELOHLOVY, WHOSE NAME IS AFFIXED TO THE DEDICATION OF THIS PLAT AND THEY ACKNOWLEDGED THE EXECUTION TO BE THEIR OWN VOLUNTARY ACT AND DEED.
MY COMMISSION EXPIRES ON THE 11th DAY OF December, 2021

Jerry L. Wilcox
NOTARY PUBLIC

