

P:\23\036\DRAWINGS\CIVIL\23036_ZZ_A_SHEETS.DWG 5/23/2024 7:17:02 AM DAVE_SCHWARZ

BRIDGE REPLACEMENT - PPCB
LETTING DATE
BRM-5657(614)-8N-33

SECTION 404 PERMIT AND CONDITIONS 281-1
10-18-16

CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NO. _____, PERMIT NO. _____ A COPY OF THIS PERMIT IS AVAILABLE FROM THE IOWA DOT WEBSITE (<http://www.enrpermits.iowadot.gov/>). THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.

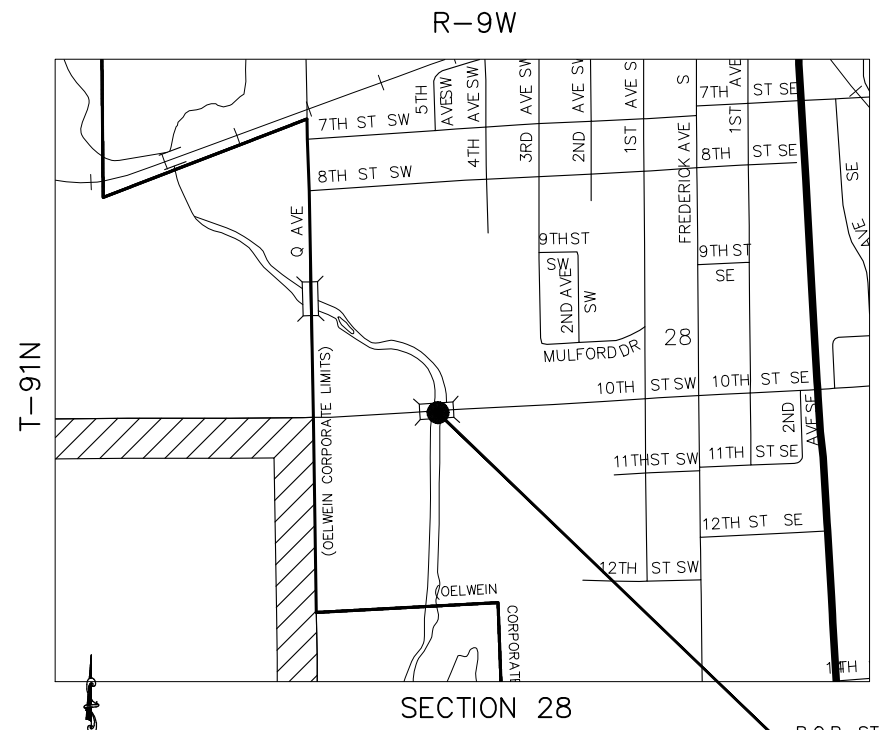
IOWA DNR FLOODPLAIN CONSTRUCTION PERMIT
THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES FLOODPLAIN CONSTRUCTION PERMIT NO. FP-XXXX-XX



Highway Division
PLANS OF PROPOSED IMPROVEMENTS ON THE
URBAN ROAD SYSTEM
CITY OF OELWEIN
BRM-5657(614)-8N-33
BRIDGE REPLACEMENT - PPCB
IN THE CITY OF OELWEIN ON 10th ST SW
OVER OTTER CREEK
SCALES: As Noted

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS.

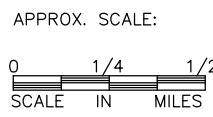
SEE SHEET C.2 FOR STANDARD ROAD PLAN TABULATION AND STANDARD BRIDGE PLAN TABULATION.



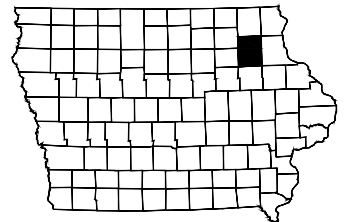
DESIGN SPEED: _____ MPH

TRAFFIC CONTROL PLAN
THIS ROAD SHALL BE CLOSED TO VEHICULAR AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION. ALL TRAFFIC CONTROL DEVICES, PROCEDURES, AND LAYOUTS WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, (MUTCD) AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130." THE CONTRACTOR SHALL FURNISH TRAFFIC CONTROL INCLUDING BARRICADES AND SIGNS IN ACCORDANCE WITH TC-252 AND THE MUTCD. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DETOUR SIGNING. CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL DEVICES ON A 24 HOUR PER DAY, 7 DAYS A WEEK BASIS DURING THE CONSTRUCTION PERIOD. CONTRACTOR TO PROVIDE 24 HOUR CALL NUMBER FOR REPAIR OF DEFICIENCIES.

B.O.P. STATION 00+00
E.O.P. STATION 00+00
FHWA STRUCTURE NO. 8920



LOCATION MAP



WORKING DRAWINGS WILL BE CHECKED BY ORIGIN DESIGN
137 MAIN STREET, DUBUQUE, IA 52001
563-556-2464 (PHONE); 563-556-7811 (FAX)
COURTNEY WAND
COURTNEY.WAND@ORIGINDSIGN.COM

AADT 820 V.P.D. 2021



TOTAL SHEETS	
PROJECT NUMBER BRM-5657(614)-8N-33	
INDEX OF SHEETS	
105-3 10-18-05	
NO.	DESCRIPTION
A.1 - A.2 B.1 C.1 D.1 - D.2	TITLE SHEET, LEGENDS AND ABBREVIATIONS TYPICAL SECTIONS ESTIMATE OF QUANTITIES, STANDARD ROAD PLANS, & GENERAL INFORMATION PLAN & PROFILES (MAINLINE)
* SPS.1 * V.1 V.2	SOIL BORINGS SITUATION PLAN BRIDGE DETAILS
* COLOR PLAN SHEETS	

MILEAGE SUMMARY			
105-1 09-27-94			
DIV.	LOCATION	LIN. FT.	MILES
1	10TH STREET SW STA xx+xxx TO xx+xxx	XX.XX	X.XXX
TOTAL		XX.XX	X.XXX



UTILITY CONTACTS:

ALLIANT ENERGY
COMPANY NAME: ALLIANT ENERGY
DESIGN CONTACT: ALLIANT ENERGY FIELD ENGINEER
PHONE: 8002554268
EMAIL: LOCATE_IPL@ALLIANTENERGY.COM

CENTURYLINK
COMPANY NAME: CENTURYLINK
DESIGN CONTACT: SADIE HULL
PHONE: 9185470147
EMAIL: SADIE.HULL@LUMEN.COM

MEDIACOM
COMPANY NAME: MEDIACOM
DESIGN CONTACT: SCOTT LAGOW
PHONE: 8455449655
EMAIL: CLAGOW@MEDIACOMCC.COM

OELWEIN, CITY OF
COMPANY NAME: OELWEIN, CITY OF
DESIGN CONTACT: HERB DOUDNEY
PHONE: 3192831197
EMAIL: OELWEINWATER@MCHSI.COM

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
X	X	X
X	X	X
X	X	X
X	X	X

PRELIMINARY PLANS

	INDEX THIS SHEET
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ABBREVIATIONS

<p>Δ CENTRAL ANGLE A/C AIR CONDITIONING(ER) AC ACRES A.F.F. ABOVE FINISHED FLOOR AGG AGGREGATE AOH ARROW ON HYDRANT ARCH ARCHITECTURAL ASPH ASPHALT AVG AVERAGE</p> <p>B-B B/C - B/C B/C, BOC BACK OF CURB B/DITCH BOTTOM OF DITCH BFP BACKFLOW PREVENTOR B/L BASE LINE B/S BOTTOM OF SLOPE BLDG BUILDING B.M. BENCH MARK BOP BEGINNING OF PROJECT BOT BOTTOM BSMT BASEMENT BV BUTTERFLY VALVE</p> <p>C&G CURB AND GUTTER CATV CABLE TELEVISION CB CATCH BASIN C-C CENTER TO CENTER CF CUBIC FEET CH CHORD CH BRG CHORD BEARING CIP CAST IRON PIPE C-I-P CAST-IN-PLACE CISP CAST IRON SOIL PIPE CJ CONTROL JOINT C OR CL CENTERLINE CLR CLEAR CMP CORRUGATED METAL PIPE CMU CONCRETE MASONRY UNIT CO CLEAN OUT COL COLUMN COMP COMPACTED CONC CONCRETE CONN CONNECTION CONST CONSTRUCTION CONT CONTINUOUS COR CORNER CP CONTROL POINT CPE CORRUGATED POLYETHYLENE PIPE CRST CRUSHED STONE CSP CORRUGATED STEEL PIPE CTRD CENTERED CTR CENTER CULT CULTIVATED CV CHECK VALVE CY CUBIC YARD</p> <p>D DEGREE OF CURVE DIA (Ø) DIAMETER DIP DUCTILE IRON PIPE DN DOWN DRWY DRIVEWAY DS DOWNSPOUT DWG(S) DRAWING(S) DWL(S) DOWEL(S)</p> <p>E EAST E'LY EASTERLY EA EACH EJ EXPANSION JOINT EL ELEVATION ELEC ELECTRICAL ELEV ELEVATOR EMBED EMBEDMENT ENGR ENGINEER ENTR ENTRANCE EOP END OF PROJECT EOR END OF RADIUS E/P EDGE OF PAVEMENT EQ EQUAL E/S EDGE OF SHOULDER ESMT EASEMENT EST ESTIMATE EX EXISTING EXC EXCAVATE/EXCAVATION EXP EXPANSION EXT EXTERIOR EXTD EXTEND EW EACH WAY</p>	<p>FD FLOOR DRAIN FDN FOUNDATION F.E. FIELD ENTRANCE FES FLARED END SECTION F-F FACE TO FACE FFE FINISH FLOOR ELEVATION FG FORM GRADE FIN GR FINISHED GRADE FL FLOWLINE FLG FLANGE FLR FLOOR FM FORCE MAIN FND FOUND FT FOOT/FEET FTG FOOTING FUT FUTURE FV FIELD VERIFY</p> <p>G GUTTER GC GENERAL CONTRACTOR GALV GALVANIZED GND GROUND GRAN GRANULAR GRD GRADE GV GATE VALVE</p> <p>HMA HOT MIX ASPHALT HORIZ HORIZONTAL HPT HIGH POINT HSD HEADLIGHT STOPPING DISTANCE HYD HYDRANT</p> <p>ID INSIDE DIA/INSIDE DIM IE INVERT ELEVATION IMP IMPROVEMENTS IN INCHES INV INVERT IP IRON PIPE</p> <p>JB JUNCTION BOX JT JOINT/JOINT LENGTH</p> <p>K RATE OF VERT CURVATURE</p> <p>L LENGTH OF CURVE LAT LATERAL LF LINEAL FOOT LONG LONGITUDINAL LP LIGHT POLE LPT LOW POINT LT LEFT</p> <p>MAX MAXIMUM ME MATCH EXISTING MH MANHOLE MIN MINIMUM MISC MISCELLANEOUS MON MONUMENT MP MILE POST</p> <p>N NORTH N/A NOT APPLICABLE NE'LY NORTHEASTERLY N'LY NORTHERLY NO/# NUMBER NIC NOT IN CONTRACT NTS NOT TO SCALE NW'LY NORTHWESTERLY</p> <p>OC ON CENTER OD OUTSIDE DIAMETER</p> <p>PC POINT OF CURVE PERF PERFORATED PI POINT OF INTERSECTION P/L PROPERTY LINE PM PRINCIPAL MERIDIAN POB POINT OF BEGINNING POC POINT OF CURVE POT POINT OF TANGENT PRC POINT OF REVERSE CURVE PRELIM PRELIMINARY PROP PROPOSED PRV PRESSURE REDUCING VALVE PT POINT OF TANGENCY PVC POLYVINYL CHLORIDE PVMT PAVEMENT</p> <p>QTY QUANTITY</p>	<p>R RADIUS R&R REMOVE & REPLACE R&S REMOVE & SALVAGE RCB REINFORCED CONCRETE BOX RCAP REINFORCED CONCRETE ARCH PIPE RCP REINFORCED CONCRETE PIPE RD ROAD REBAR REINFORCING BAR REF REFERENCE REINF REINFORCING/REINFORCED REV REVISION RIM RIM ELEVATION ROW RIGHT OF WAY RP RADIUS POINT RS RESILIENT SEAT RT RIGHT</p> <p>S SOUTH S= SUPERELEVATION SAN SANITARY SANS SANITARY SEWER SB SOIL BORING SCH SCHEDULE SD SUB DRAIN SEC SECTION SE'LY SOUTHEASTERLY SF SQUARE FOOT S.F.D. STEP FOOTING DOWN SHT SHEET SIG. SIGNAL SIM. SIMILAR S'LY SOUTHERLY SOG SLAB ON GRADE SPEC SPECIFICATION SS STAINLESS STEEL SSD STOPPING SIGHT DISTANCE ST STREET STA STATION STD STANDARD STL STEEL STM STORM STMS STORM SEWER SW'LY SOUTHWESTERLY SY SQUARE YARD</p> <p>T TANGENT LENGTH T/B TOP OF BANK T/DITCH TOP OF DITCH T/C, TC TOP OF CURB T/GRAV TOP OF GRAVEL T/WALL TOP OF WALL T/P, TP TOP OF PAVEMENT T/S TOP OF SLOPE T/SUB TOP OF SUBGRADE T/W, TW TOP OF WALK T/WM TOP OF WATER MAIN T & B TOP AND BOTTOM T.O.B. TOP OF BEAM T.O.B.L. TOP OF BRICK LEDGE T.O.C. TOP OF CONCRETE T.O.E.F. TOP OF EXISTING FOOTING T.O.F. TOP OF FOOTING T.O.M. TOP OF MASONRY T.O.P. TOP OF PIER T.O.S. TOP OF STEEL TCE TEMP CONSTRUCTION EASEMENT TEL TELEPHONE TEMP TEMPORARY THK THICK / THICKNESS TWP TOWNSHIP TYP TYPICAL</p> <p>U UTILITY UAC USE AS CONSTRUCTED UE UTILITY EASEMENT UL UNDERWRITERS LABORATORIES, INC. ULFM UNDERWRITERS LABORATORIES FACTORY MUTUAL UNO UNLESS NOTED OTHERWISE</p> <p>VAR VARIES VC VERTICAL CURVE VCP VITRIFIED CLAY PIPE VER VERIFY VERT VERTICAL VOL VOLUME VPC VERT POINT OF CURVE VPI VERT POINT OF INTERSECTION VPT VERT POINT OF TANGENCY</p> <p>W WEST W/ WITH W'LY WESTERLY WM WATER MAIN W/O WITHOUT W.P. WORKING POINT WD WOOD WSO WATER SHUT OFF WV WATER VALVE WWF WELDED WIRE FABRIC</p> <p>YD YARD</p>
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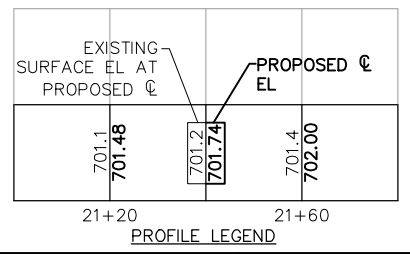
LEGEND

EXISTING		PROPOSED		EXISTING		PROPOSED
---	PROPERTY/ROW LINE	---				
---	EASEMENT	---				
---	SECTION LINE	---				
---	QUARTER SECTION LINE	---				
---	QUARTER QUARTER SECTION LINE	---				
---	CENTERLINE	---				
---	STORM SEWER	---	D			
---	SUB DRAIN	---	SD			
---	SANITARY SEWER	---	S			
---	FORCE MAIN	---	FM			
---	WATER LINE	---				
---	GAS LINE	---	G			
---	OVERHEAD ELECTRIC	---	OHE			
---	UNDERGROUND ELECTRIC	---	E			
---	OVERHEAD TELEPHONE	---	OHT			
---	UNDERGROUND TELEPHONE	---	T			
---	OVERHEAD TELEVISION	---	OHTV			
---	UNDERGROUND TELEVISION	---	TV			
---	FIBER OPTIC	---	FIB			
---	WIRE FENCE	---	X			
---	CHAINLINK FENCE	---	O			
---	WOOD FENCE	---				
---	SILT FENCE	---	SF			
---	PERIMETER CONTROL	---	PC			
---	CONTOUR LINE	---	000			
	RAILROAD TRACKS					
	GUARD RAIL					
+ 0.00	SPOT ELEVATION	+ 0.00				
	DIRECTION OF FLOW					
	TREE LINE					
	REVETMENT EXTENTS					
	EROSION STONE					

UTILITY LINES WITH DESIGNATORS WRAPPED IN PARENTHESIS SUCH AS (W) or (G) ARE LOCATED BASED ON MAP OR GIS DATA

SURVEY

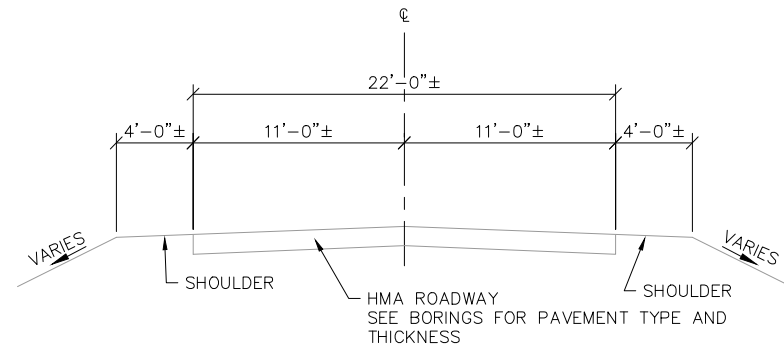
- FOUND REBAR
- FOUND IRON PIPE
- SET REBAR



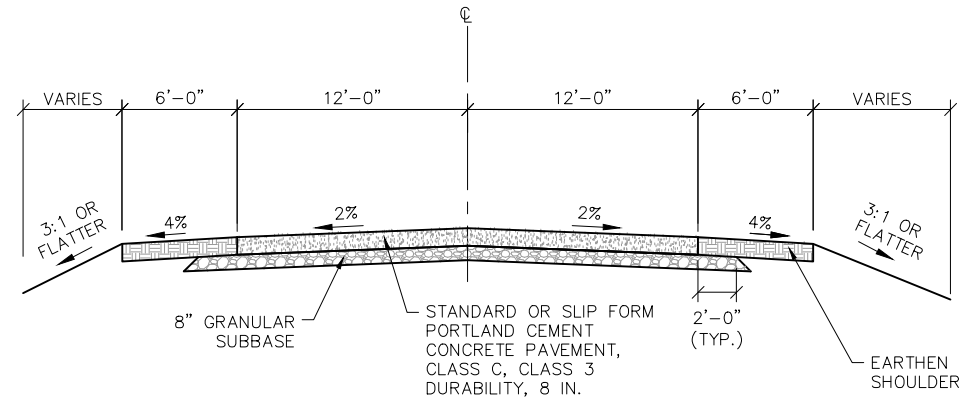
Design For
239' x 32' 0" SKEW PPCB BRIDGE
10TH ST SW OVER OTTER CREEK
 Station: 10+14.50

71'-0" END SPANS 97'-0" CENTER SPAN

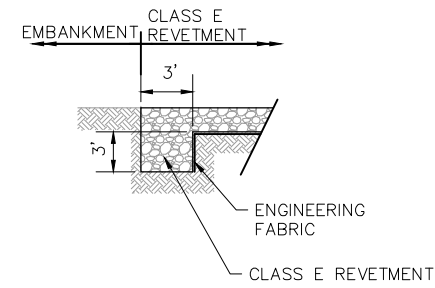
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1 EXISTING SECTION
B.1 NOT TO SCALE



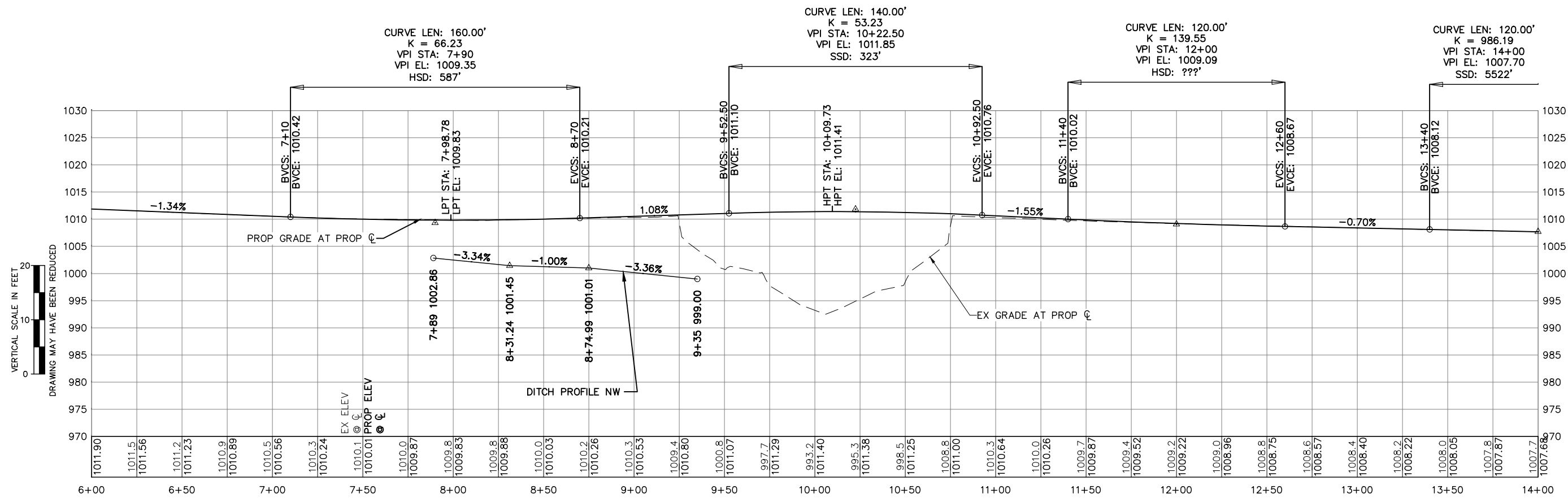
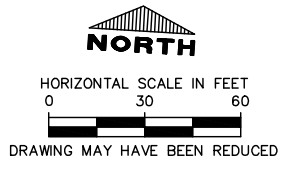
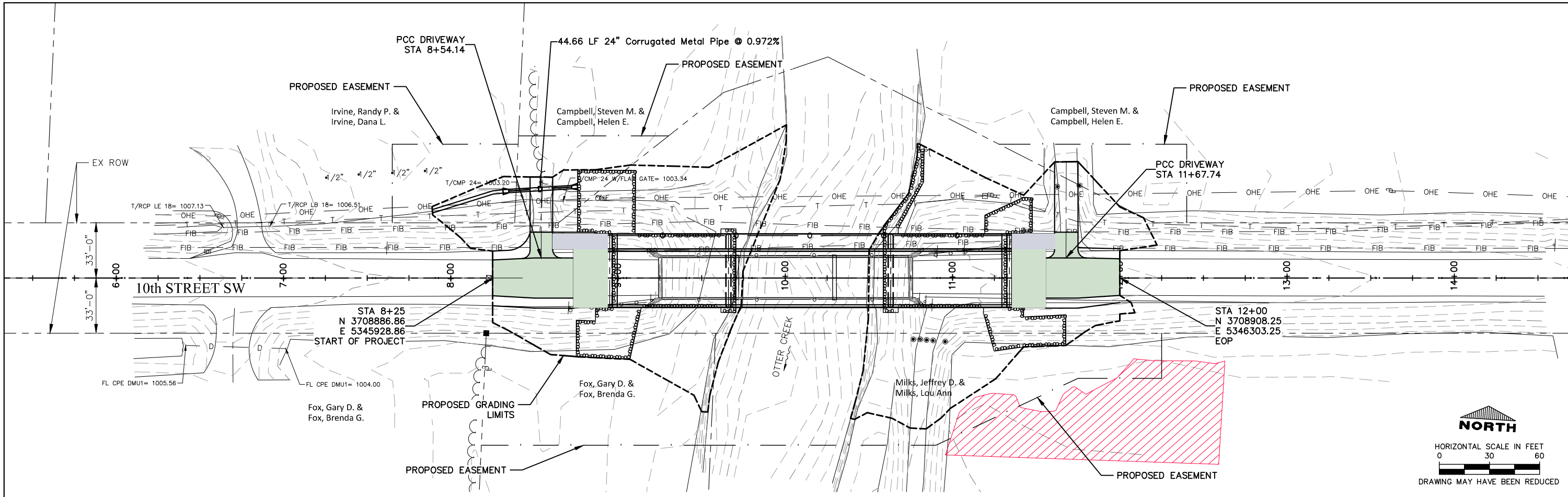
2 TYPICAL SECTION
B.1 NOT TO SCALE



3 TRENCH END ANCHOR DETAIL
B.1 NOT TO SCALE

Design For
239' x 32' 0" SKEW PPCB BRIDGE
10TH ST SW OVER OTTER CREEK
 Station: 10+14.50
 71'-0" END SPANS 97'-0" CENTER SPAN

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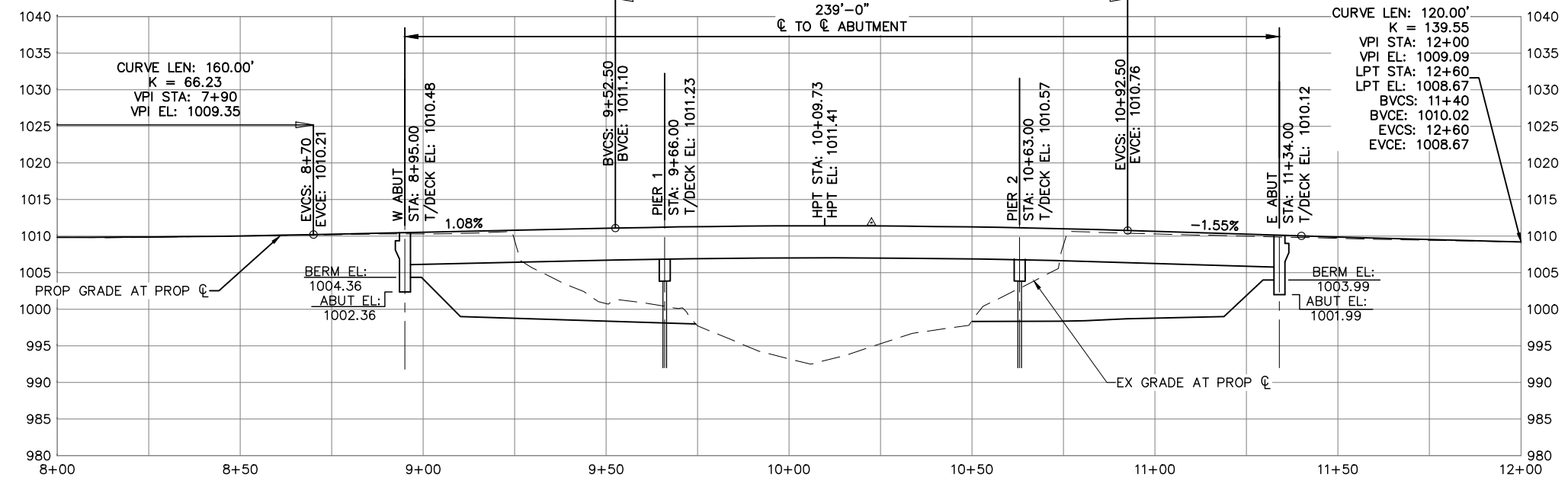


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CURVE LEN: 140.00'
 K = 53.23
 VPI STA: 10+22.50
 VPI EL: 1011.85

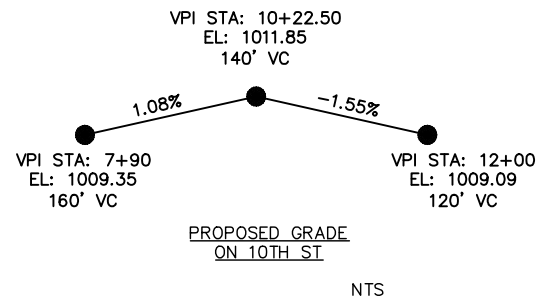
CURVE LEN: 120.00'
 K = 139.55
 VPI STA: 12+00
 VPI EL: 1009.09
 LPT STA: 12+60
 LPT EL: 1008.67
 BVCS: 11+40
 BVCE: 1010.02
 EVCS: 12+60
 EVCE: 1008.67

HORIZONTAL CONTROL				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
510	3708869.88	5345101.91	1023.77	CONTROL POINT REBAR 5/8X24
511	3708918.18	5346755.80	1005.61	CONTROL POINT REBAR 3/8X18



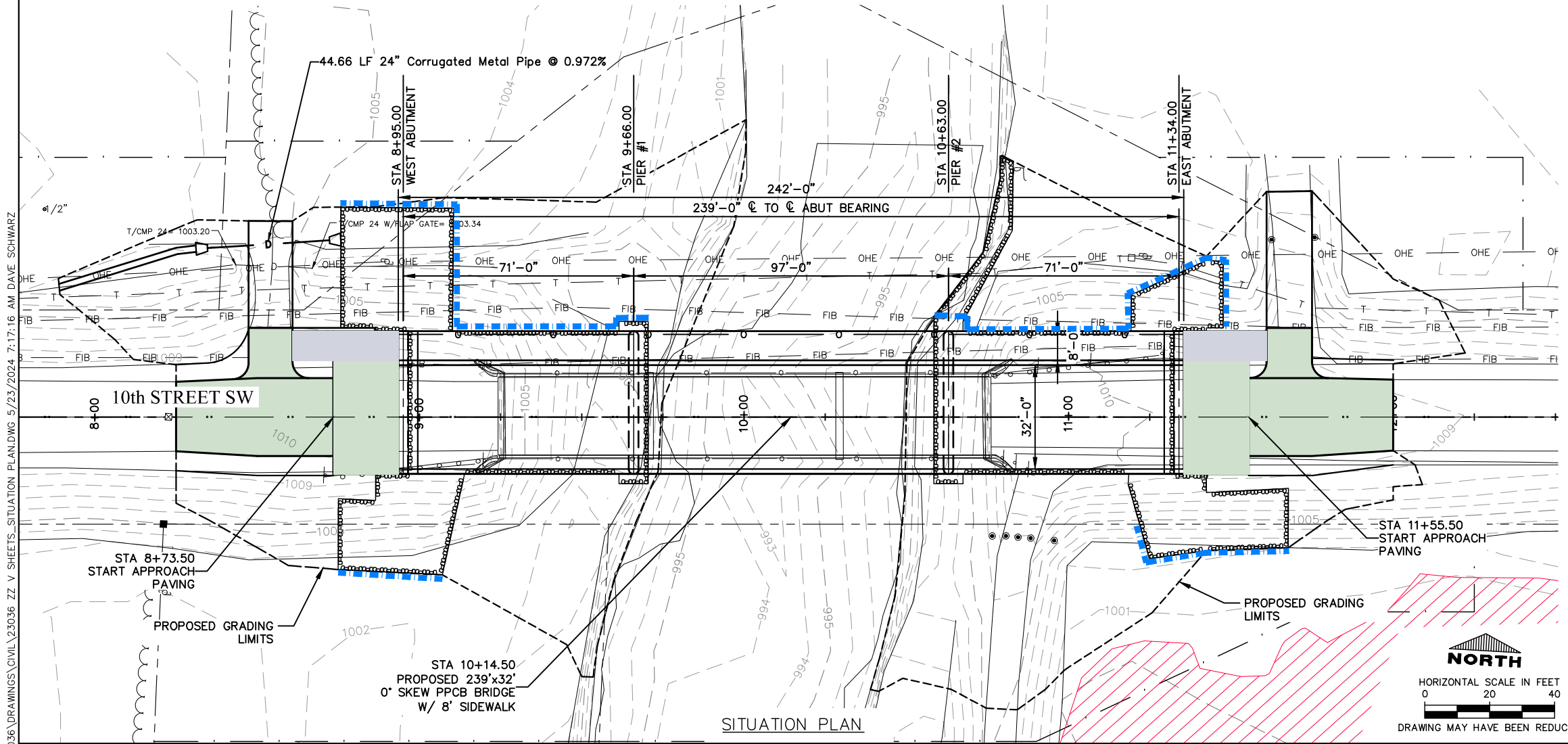
LEGEND	
REVETMENT DETAIL 3/B.1 EXTENTS	
WETLANDS	

VERTICAL SCALE IN FEET
 0 10 20
 DRAWING MAY HAVE BEEN REDUCED



FOR EROSION CONTROL INFORMATION, REFER TO EC SHEETS
 FOR SURVEY CONTROL AND ALIGNMENT INFORMATION, REFER TO G SHEETS
 FOR TEMPORARY AND PERMANENT EASEMENTS, REFER TO H SHEETS

PROFILE

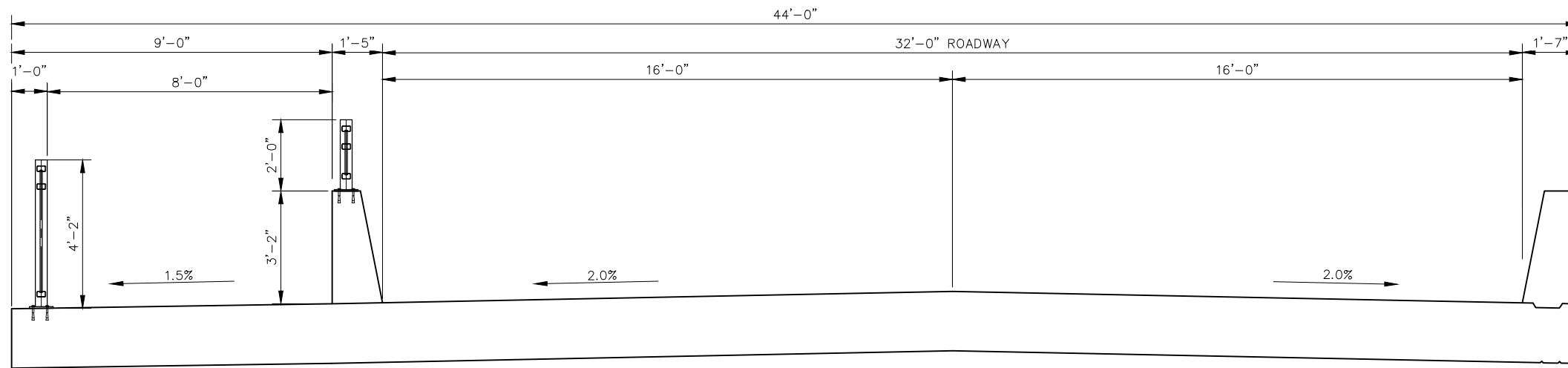


SITUATION PLAN

NORTH
 HORIZONTAL SCALE IN FEET
 0 20 40
 DRAWING MAY HAVE BEEN REDUCED

Design For
239' x 32' 0" SKEW PPCB BRIDGE
10TH ST SW OVER OTTER CREEK
 Station: 10+14.50
 71'-0" END SPANS 97'-0" CENTER SPAN

P:\23\036\DRAWINGS\CIVIL\23036_ZZ_V_SHEETS_SITUATION PLAN.DWG 5/23/2024 7:17:16 AM DAVE SCHWARZ



BRIDGE SECTION
NOT TO SCALE



BRIDGE RAILING EXAMPLE
OELWEIN, N. FREDERICK AVE NOT TO SCALE



BRIDGE RAILING EXAMPLE
SHELLSBURG, CANTON ST NOT TO SCALE



BRIDGE RAILING EXAMPLE
SHELLSBURG, CANTON ST NOT TO SCALE

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Design For
239' x 32' 0" SKEW PPCB BRIDGE
10TH ST SW OVER OTTER CREEK
 Station: 10+14.50
 71'-0" END SPANS 97'-0" CENTER SPAN