

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR, UNLESS OTHERWISE SHOWN OR NOTED.
 THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.
 PILE SPLICES AT THE ABUTMENTS, IF USED, SHALL BE MADE BY A CERTIFIED WELDER.
 THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP TO THE EXTENT SHOWN ON THESE PLANS, AND AS DIRECTED BY THE ENGINEER.
 THE EXISTING GROUND LINE AND THE BASE OF UNCLASSIFIED EXCAVATION SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.
 AT ABUTMENT BACKFACES ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH GRANULAR MATERIAL.
 BACKFILL SHALL BE PLACED BEHIND BOTH ABUTMENTS SIMULTANEOUSLY AFTER THE CONCRETE DECK HAS BEEN PLACED AND CURED.
 FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M213.
 ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.
 EXISTING STRUCTURE (B-35-56) = TWO SPAN LOW STEEL TRUSS BRIDGE, 61 FEET OVERALL LENGTH, 15 FEET WIDTH.

DESIGN DATA

LIVE LOAD :
 DESIGN RATING HS20
 INVENTORY RATING** HS26
 OPERATING RATING** HS43
 STANDARD PERMIT VEHICLE RATING 250 KIPS
 FUTURE WEARING SURFACE 20 psf
 **BY LOAD FACTOR CRITERIA.

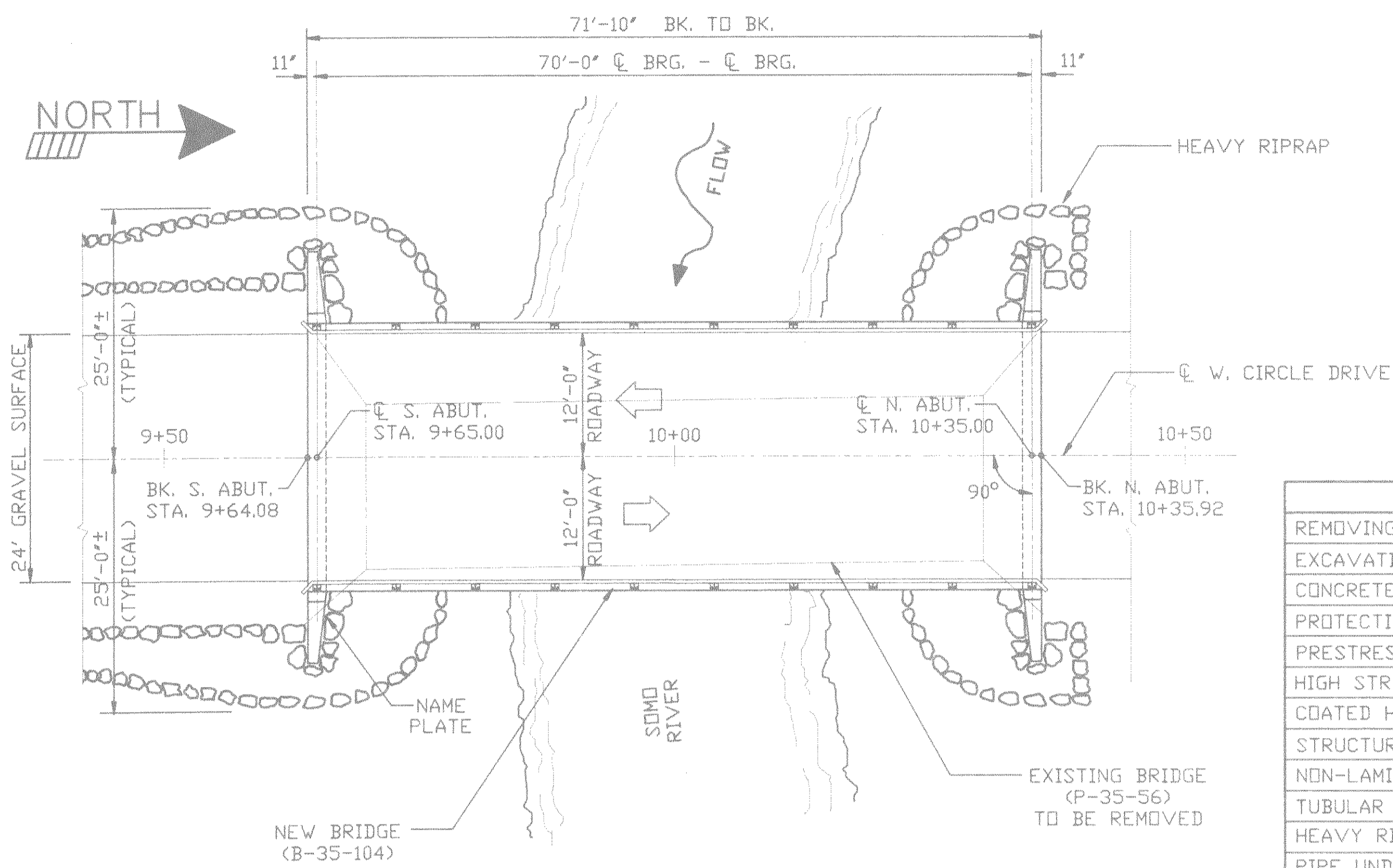
ALLOWABLE DESIGN STRESSES :
 CONCRETE MASONRY - SLAB F'c=4,000 psi
 - ALL OTHER F'c=3,500 psi

HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 Fy=60,000 psi

36" PRESTRESSED GIRDERS
 CONCRETE MASONRY F'c=6,000 psi
 1/2" DIA. PRESTRESSING STRANDS F's=270,000 psi

ESTIMATED QUANTITIES

BID ITEMS	UNIT	S.ABUT	N.ABUT	SUPER	TOTAL
REMOVING OLD BRIDGE, STA. 10+00	L.S.	---	---	---	1
EXCAVATION FOR STRUCTURES, BRIDGE B-35-104	L.S.	---	---	---	1
CONCRETE MASONRY, BRIDGES	C.Y.	16	16	54	86
PROTECTIVE SURFACE TREATMENT	GAL.	---	---	10	10
PRESTRESSED GIRDER, I TYPE, 36-INCH	L.F.	---	---	355	355
HIGH STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	L.B.	2835	2835	5900	11570
COATED HIGH STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	L.B.	---	---	5520	5520
STRUCTURAL CARBON STEEL	L.B.	---	---	685	685
NON-LAMINATED ELASTOMERIC BEARING PADS	EACH	---	---	10	10
TUBULAR RAILING, TYPE "F", STRUCTURE B-35-104	L.S.	---	---	1	1
HEAVY RIPRAP	C.Y.	76	54	---	130
PIPE UNDERDRAIN, 6-INCH	L.F.	48	48	---	96
GEOTEXTILE FABRIC, TYPE HR	S.Y.	113	76	---	189
CAST-IN-PLACE CONCRETE PILING, DELIVERED AND DRIVEN, 10 3/4 INCH	L.F.	225	225	---	450
NON-BID ITEMS					
POLYVINYL CHLORIDE WATERSTOP	L.F.	34	34	---	68
FILLER	SIZE	3/4"	3/4"	---	---



PLAN
 SINGLE SPAN PRESTRESSED GIRDER DECK SLAB BRIDGE

FOUNDATION DATA :

ABUTMENTS TO BE SUPPORTED ON 10 3/4" DIA. CAST-IN-PLACE CONCRETE PILES DRIVEN TO A MINIMUM BEARING VALUE OF 55 TONS. THE ESTIMATED LENGTH OF THESE PILES IS 45 FEET.

HYDRAULIC DATA :

DRAINAGE AREA 23.0 sq.mi.
 Q₁₀₀ 1950 cfs
 HIGH WATER₁₀₀ 1551.50 ±
 WATERWAY AREA₁₀₀ 396 sq.ft.
 VELOCITY₁₀₀ 4.92 fps
 OVERTOPPING FREQUENCY N/A

TRAFFIC DATA :

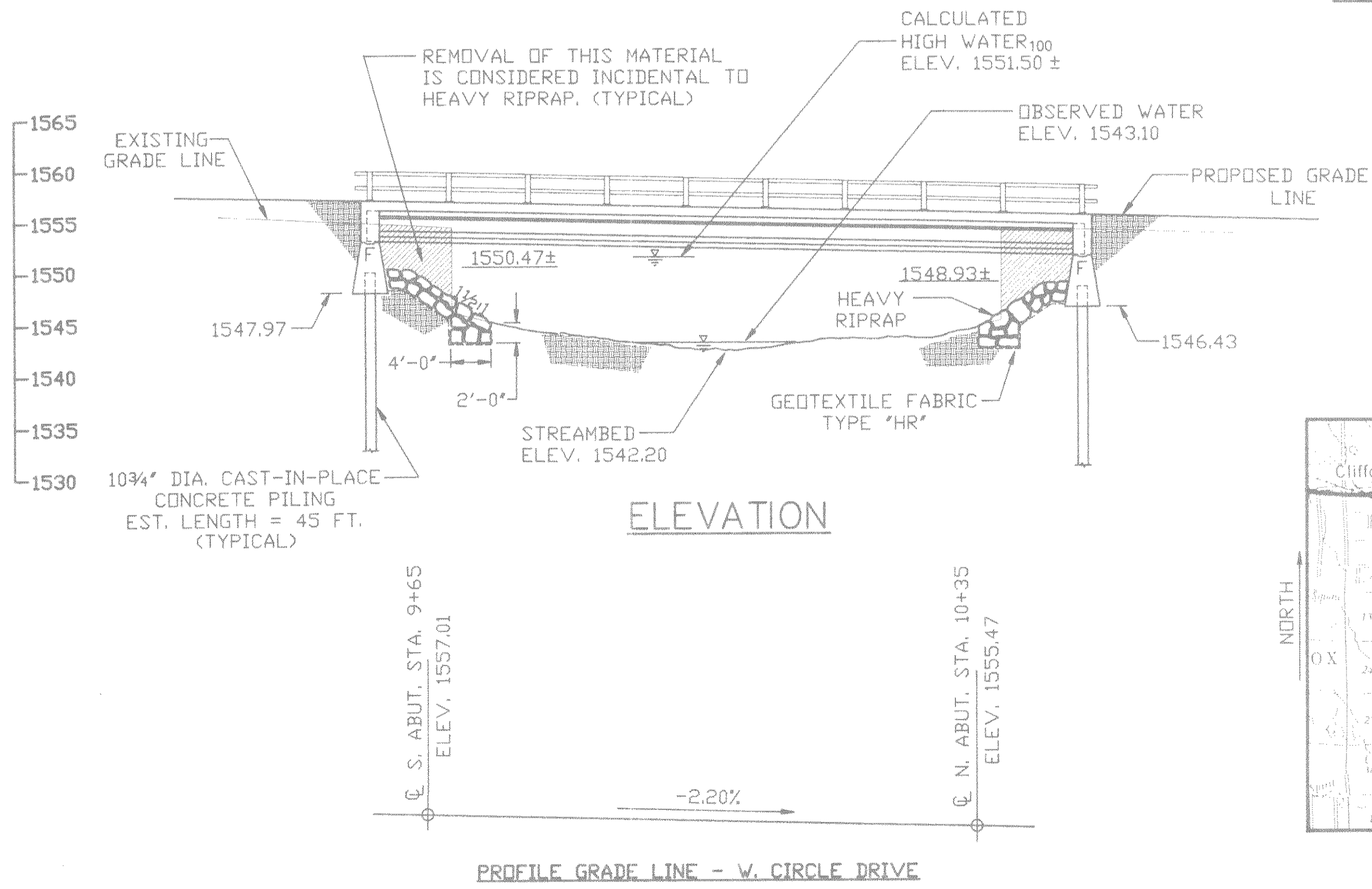
ADT (1990) 35
 ADT (2010) 50

BRIDGE OFFICE CONTACT :

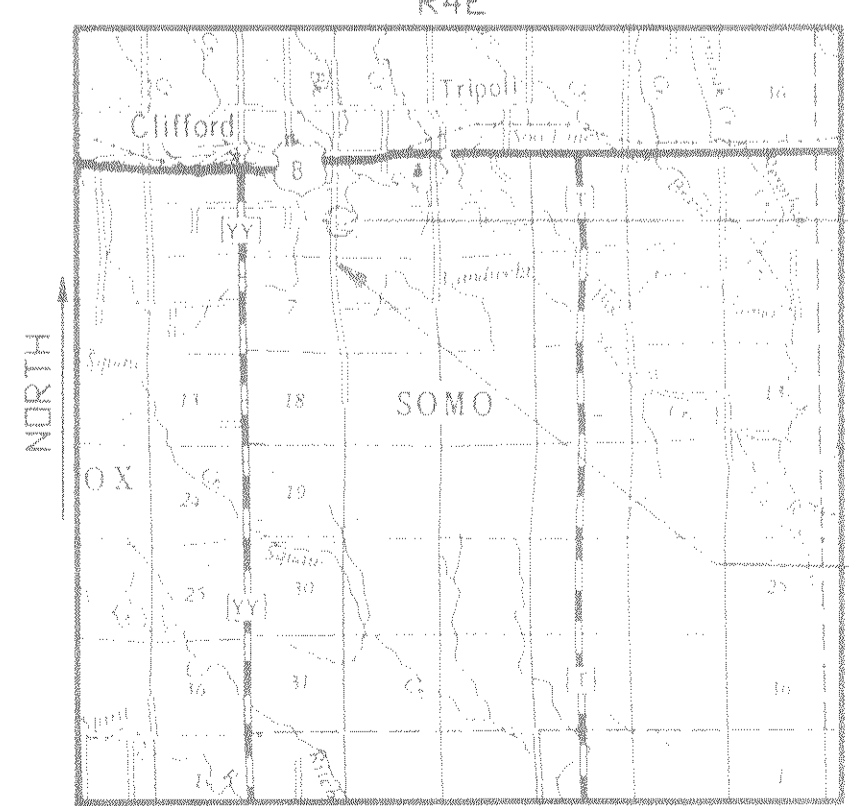
DAVE BABLER (608) 266-8486

LIST OF DRAWINGS, X82697

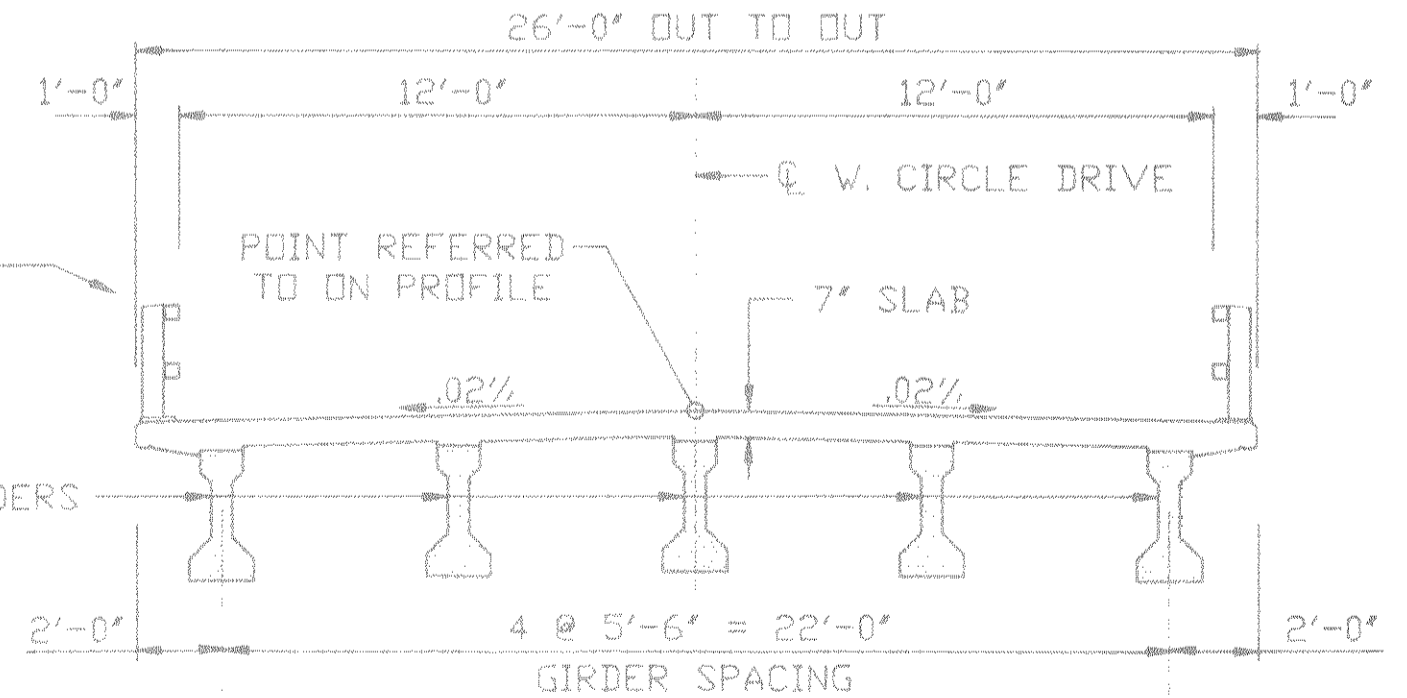
- 1.) GENERAL PLAN & ELEVATION
- 2.) SUBSURFACE EXPLORATION
- 3.) ABUTMENTS
- 4.) PRESTRESSED GIRDER DETAILS
- 5.) SUPERSTRUCTURE
- 6.) STEEL DIAPHRAGM ALTERNATE
- 7.) TUBULAR RAILING, TYPE "F"



ELEVATION



LOCATION SKETCH
 (LINCOLN COUNTY)



CROSS-SECTION

BENCH MARKS

STA.	LOCATION	ELEV.
12+78	P.K. NAIL IN POWER POLE, 30' RIGHT	1556.03
10+30	EXISTING BRIDGE DECK, ON BASE LINE	1554.12

No.	Date	Revision	By
BECHER-HOPPE Inc. ENGINEERS, ARCHITECTS, PLANNERS 330 Fourth Street Wausau, WI. 54402			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-104 SOMO RIVER BRIDGE & APPROACHES			
Town of SOMO		LINCOLN County	
Design Spec. : AASHTO 1988	Load : HS20	Const. Spec. : 1989	
Designed By : DGK	Design Checked : DGK	Drawn By : DGK	Plans Checked :
Approved : _____ State Bridge Engineer _____ Date _____			
GENERAL PLAN & ELEVATION			SHEET 1 of 7 X82697