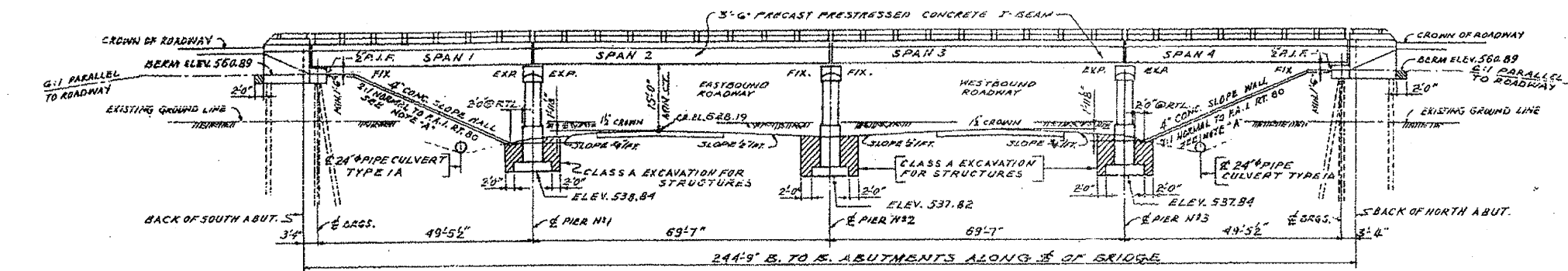


B.M. 1 - ELEV. 548.23  
 R.R. SPIKE IN TEL. POLE 330 FT.  
 RT. OF STA. 1393+45  
 B.M. 2 - ELEV. 539.20  
 R.R. SPIKE IN POWER POLE 215 FT.  
 LT. OF STA. 1413+50

INDEX OF BRIDGE SHEETS - STATION 1397+24.83

SHEET NO.	TITLE
1	GENERAL PLAN AND ELEVATION
2	BORINGS, NAME PLATES, GENERAL NOTES, QUANTITIES EXCAVATION AND DRAINAGE DETAILS.
3	DECK REINFORCEMENT PLAN
4	DECK CROSS SECTIONS AND DIAPHRAGM DETAILS
5	DETAILS OF PRECAST/PRESTRESSED CONCRETE T-BEAMS
6	FRAMING PLAN, BEARING DETAILS AND EXPANSION DEVICE
7	HANDRAIL DETAILS
8	NORTH AND SOUTH ABUTMENT AND WINGWALL DETAILS
9	PIERS 1, 2 AND 3
10	REINFORCEMENT BAR LIST
11	ABUTMENT PILES

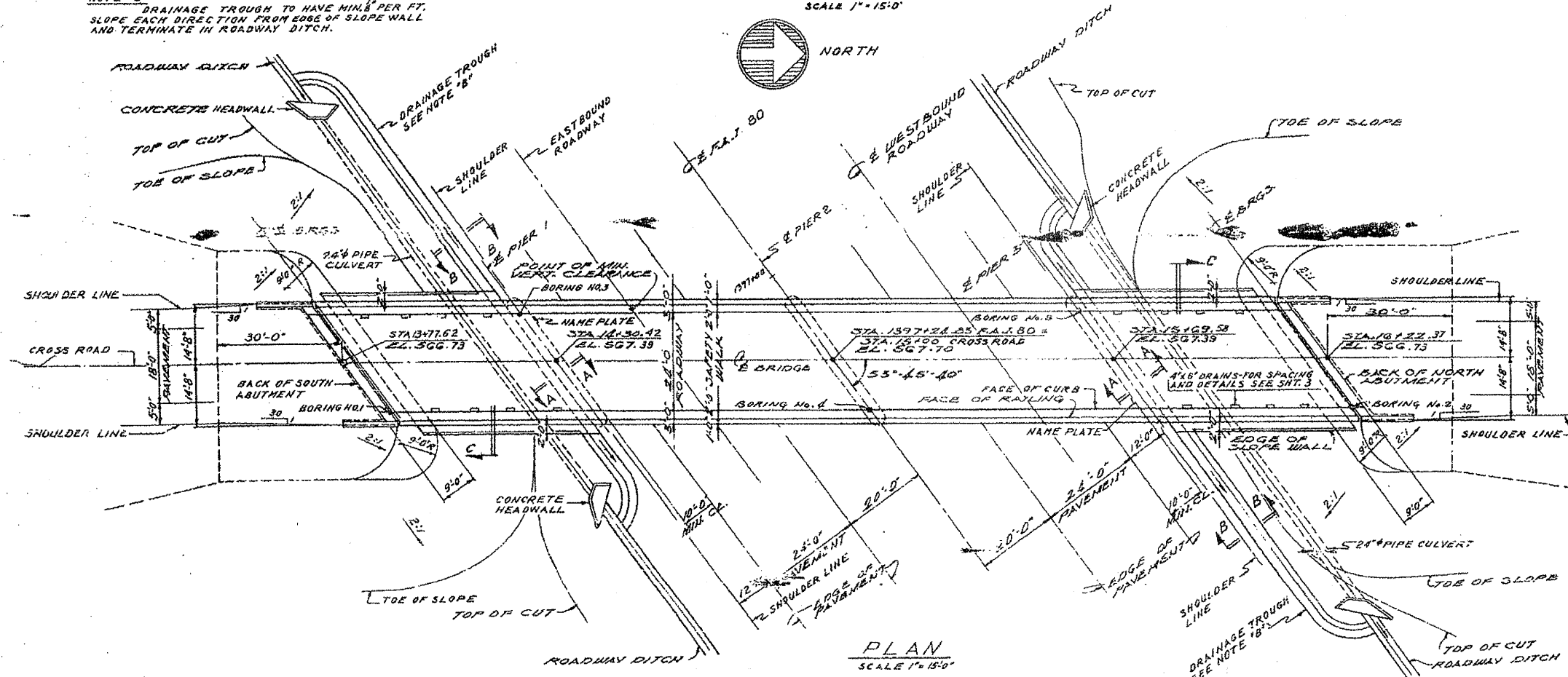
NOTE "A"  
 REINFORCED WITH WELDED WIRE FABRIC, 6" X 6" MESH, NO. 8 WIRE, SPACING APPROX. 58" PER 100 SQ. FT.  
 NOTE "B"  
 DRAINAGE TROUGH TO HAVE MIN. 1/8" PER FT. SLOPE EACH DIRECTION FROM EDGE OF SLOPE WALL AND TERMINATE IN ROADWAY DITCH.



ELEVATION  
 SCALE 1" = 15'-0"

ABUTMENT PILE NOTES:  
 1. DRIVE A CONCRETE TEST PILE AT EACH ABUTMENT.  
 2. CONSTRUCT EMBANKMENT AS SHOWN.  
 3. DRILL OVERSIZE HOLES THROUGH THE EMBANKMENT TO THE EXISTING GROUND FOR THE ABUTMENTS AND WING WALLS.  
 4. DRIVE THE REMAINDER OF THE CONCRETE PILES FOR THE ABUTMENTS THROUGH THE DRILLED OVERSIZE HOLES TO THE CAPACITY SHOWN ON THE PLANS AND TO A PENETRATION BEYOND EXISTING GROUND NOT LESS THAN DETERMINED FROM THE TEST PILES.  
 5. DRIVE THE TIMBER PILES FOR THE ABUTMENT WINGS THROUGH THE OVERSIZED HOLES TO THE CAPACITY SHOWN ON THE PLANS AND TO A MINIMUM PENETRATION OF 10 FEET INTO THE EXISTING GROUND.  
 6. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

ROAD CLASSIFICATION = E-1  
 DESIGN SPEED = 45 M.P.H.  
 DESIGN LOAD = HS-20  
 LL = 15' - 31/2" - 44'  
 FUTURE D.L. = 15' - 5 1/2" - 21" WEARING SURFACE  
 DESIGN STRESSES  
 CONCRETE (CAST-IN-PLACE)  
 f'c = 3,500 LBS. PER SQ. IN.  
 f'c = 1,400 LBS. PER SQ. IN.  
 f'c = (WITH EARTH PRESSURE) 1,000 LBS. PER SQ. IN.  
 f'c = (PIER FOOTING) 75 LBS. PER SQ. IN.  
 n = 10  
 PRESTRESSED CONCRETE  
 f'c = 5,000 LBS. PER SQ. IN.  
 f'c = 6,000 LBS. PER SQ. IN.  
 f'c = 2,000 LBS. PER SQ. IN.  
 REINFORCING STEEL  
 f's = 20,000 LBS. PER SQ. IN.  
 PRETENSIONING STEEL  
 f'su = 220,000 LBS. PER SQ. IN.  
 f'sl = 173,000 LBS. PER SQ. IN.  
 PILE LOADS  
 ABUTMENTS = 55 TONS (CONCRETE PILES)  
 WING WALLS = 10 TONS (TIMBER PILES)  
 SOIL PRESSURE  
 PIERS 5,000 LBS. PER SQ. FT.



PLAN  
 SCALE 1" = 15'-0"

NOTE:  
 QUANTITIES OF EARTH EXCAVATION AND CONCRETE HEADWALLS FOR F.A.I. RTE 80 AND EMBANKMENT FOR CROSS ROAD ARE INCLUDED IN QUANTITIES ON ROAD PLANS.  
 6 TO 1 BACKSLOPE MAY BE OMITTED IF EMBANKMENT IS CONSTRUCTED FULL LENGTH.  
 FOR SECTIONS L-1, B-B & C-C SEE SHEET 2.  
 FOR LISTS OF CLASS A EXCAVATION STRUCTURES AND WINGWALLS SEE SHEET 2.  
 FOR NAME PLATE LOCATION SEE SHEET 9.

ALFRED BENESECH & ASSOCIATES CONSULTING ENGINEERS  
 10 SOUTH WABASH AVENUE 662 CHICAGO, ILL. 60606

APRIL 20 1959  
 M. J. McNamee  
 Chief Engineer

GENERAL PLAN AND ELEVATION  
 GRADE SEPARATION  
 CROSS ROAD  
 OVER F.A.I. ROUTE 80  
 F.A. PROJECT 1-80-4(2)116  
 F.A.I. ROUTE 80 SECTION (32.47)-4  
 BRUNSWICK-KENDALL COUNTY  
 STATION 1397+24.83