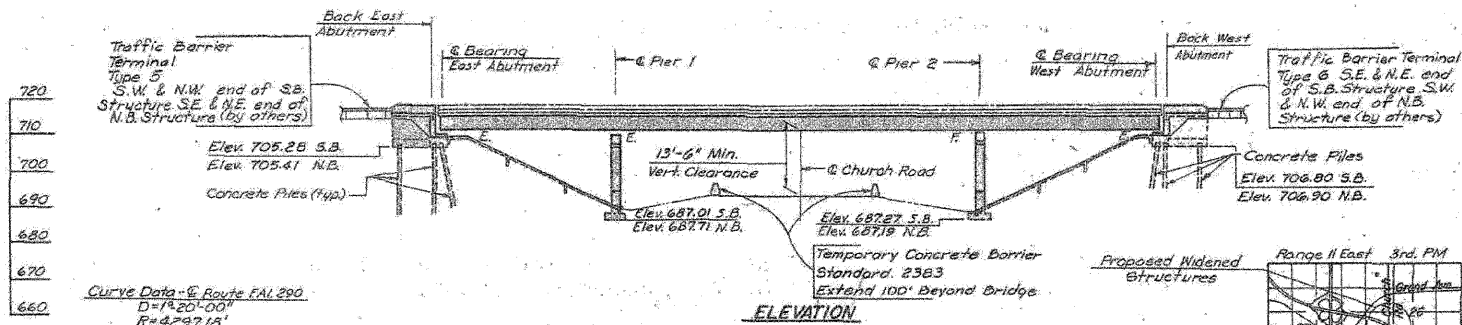


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

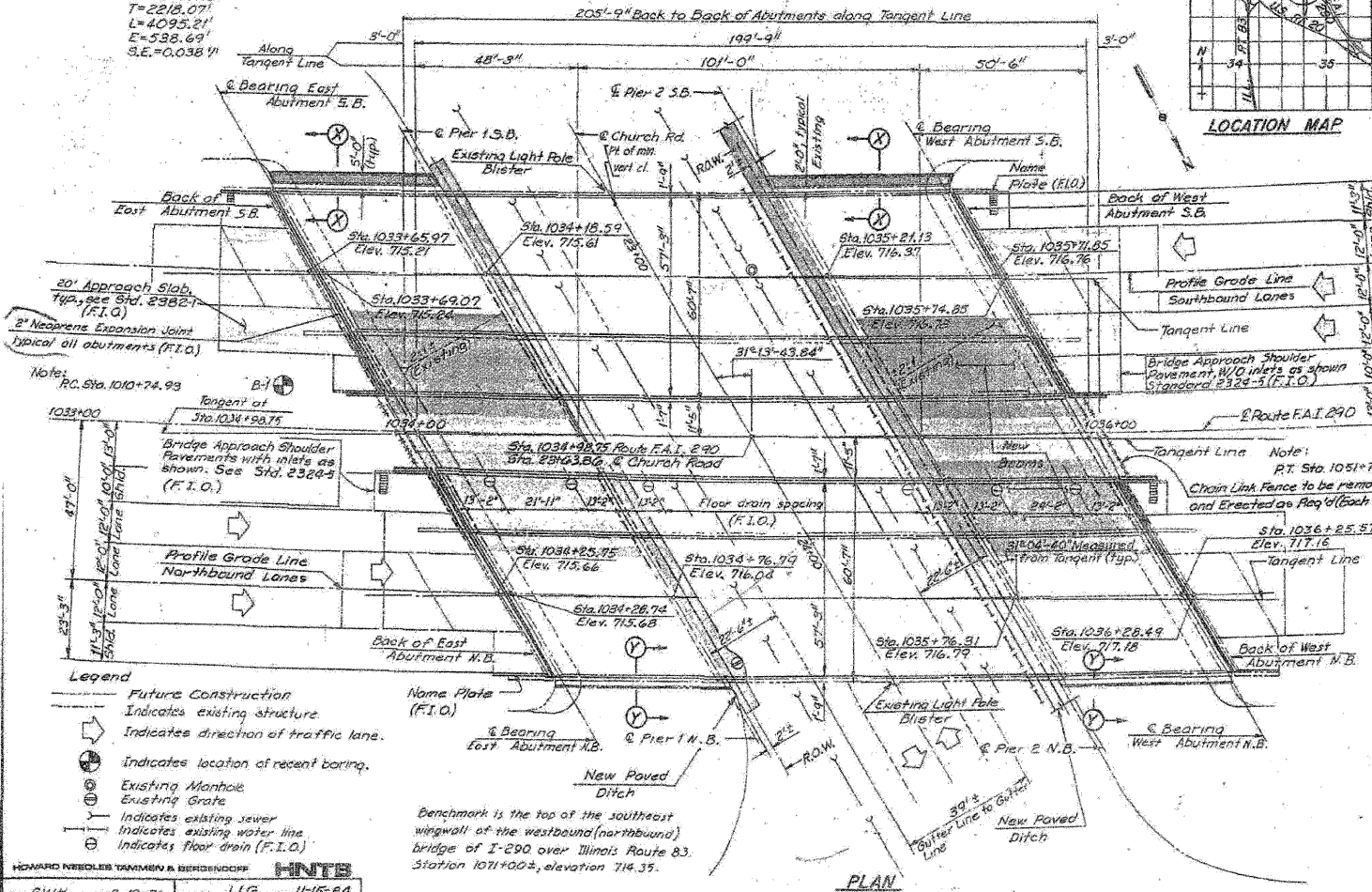
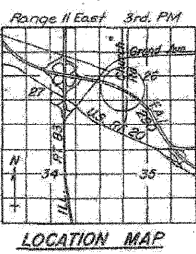
Notes:
For Section X-X and Y-Y, see Street No. 2.

PROFILE GRADE - F.A.I. 290

Existing Structure Data: The existing structures, built in 1969, carry I-290 traffic Northbound and Southbound over existing Church Road. The structures are three-span continuous steel bridges with reinforced concrete decks. Each structure carries two lanes of traffic.



Curve Data - F. Route F.A.I. 290
D=1420'-00"
R=4297.18'
Δ=54°36'10"
T=2218.07'
L=4095.21'
E=538.69'
S.E.=0.038 1/1"



Legend
Future Construction
Indicates existing structure
Indicates direction of traffic lane.
Indicates location of recent boring.
Existing Manhole
Existing Grate
Indicates existing sewer
Indicates existing water line
Indicates floor drain (F.I.O.)

Benchmark is the top of the southeast wingwall of the westbound (northbound) bridge of I-290 over Illinois Route 83. Station 1071+00.2, elevation 714.35.

HOWARD NEEDLES TAMMEN & BERGENCOPE
MADE BY DATE 8-19-81 CHECKED DATE 11-15-84

47
36
11
57

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. OF 12 SHEETS
F.A.I. 290	22-2HB-3-BY (84)	DUPAGE	26	15	
FED. ROAD DIST. NO. 7	ILLINOIS		FEDERAL AID PROJECT NO.		

GENERAL NOTES

DESIGN SPECIFICATIONS: American Association of State Highway and Transportation Officials Standard Specifications for Highway Bridges, 1977, with Interim Specifications, 1978, 1979, 1980, 1981, 1982 and 1983.

CONSTRUCTION SPECIFICATIONS: Illinois Standard Specifications for Road and Bridge Construction adopted October 1st, 1983.

DESIGN STRESSES:
Concrete: $f'_c = 3500$ psi
Reinforcing Steel: $f_s = 24,000$ psi
Structural Steel: $f_s = 20,000$ psi (M-183)

DESIGN LOADING: Live load is AASHTO HS20-44 and dead load is calculated weight of structure plus 25 psf future wearing surface.

BEARING SEAT ELEVATIONS: New bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8 inch adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

TEST PILES: The Contractor shall drive one concrete test pile in a permanent location one at the East Abutment Northbound Lane and one at the West Abutment Southbound Lane, as directed by the Engineer before ordering the remainder of piles.

BORING DATA: See Proposal for boring data.

SHOULDER TRANSITION: Shoulder transition to wingwall shall be shaped with suitable fill (Cost incidental)

PAINTING NEW STEEL: The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel except where otherwise noted. (Steel shall be shop painted only in Stage I.)

BOLTED CONNECTIONS: Fasteners for structural steel shall be high strength bolts. The size of the bolts shall be 3/4" diameter with 1 1/2" diameter open holes unless shown otherwise in the plans.

FIELD WELDING: Field welding of construction accessories will not be permitted to the bottom flange of girders nor to the top flange for a distance equal to one-fourth the span length in span 2 and three-fourths the span length in spans 1 and 3 from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

DIAPHRAGM JOINTS: All contact surfaces of joints for the diaphragms shall be free of paint or lacquer.

ANCHOR BOLTS: Anchor bolts shall be set before bolting new diaphragms over supports.

EXISTING STRUCTURE DIMENSIONS: Plan dimensions and details relative to existing structures, have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variation shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

EXPANSION BOLTS: Expansion bolts shall consist of approved expansion anchors, providing certified minimum proof load = 4,000 pounds, and 3/4" x 12" hooked bolts.

STRUCTURAL STEEL: Structural steel shall conform to the requirements of AASHTO M183. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Match Toughness Zone 2. These components are the tension flanges, webs and stiffener plate material of the plate girders. Calculated weight of structural steel = 481,200 pounds. (M-183)

REINFORCEMENT BARS: New reinforcement bars shall conform to the requirements of AASHTO M31 or M53 Grade 60. CONCRETE CHAMFERS: All exposed concrete corners shall have 3/4 inch chamfers unless otherwise shown in the plans.

STAGE I CONSTRUCTION

These plans represent the Stage I work required for the widening and rehabilitation of the dual structures. Drawings for Stages II and III are not provided. When Stage II and III work is detailed along with Stage I on the same drawing, Stage I is shown shaded and Stage II and III is marked F.I.O. (For Information Only).

Stage I work consists of widening the substructure, erecting new girders, repairing existing substructure, and shimming existing bearing.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
James J. Rayburn
Engineer of Highway and Structures

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges."

Signed: Ulrich Gygis, S.E., Ill. Reg. No. 3036



NO.	DATE	REVISION	BY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN,
ELEVATION AND NOTES

F.A.I. ROUTE 290, DUPAGE COUNTY
SECTION 22-2HB-3-BY (84)
STA. 1034+98.75
INTERSTATE ROUTE 290 OVER
CHURCH ROAD

EXISTING PLAN INFORMATION 1 OF 6
STRUCTURE NO. 022-0099

FOR INFORMATION ONLY

benesch

alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10050

SHEET NO. 13	F.A.I. RTE. 290	SECTION 22(1, 1-1, 2&3)RS-7	COUNTY DUPAGE	TOTAL SHEETS 546	SHEET NO. 275
18 SHEETS	355			CONTRACT NO. 60G51	
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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