

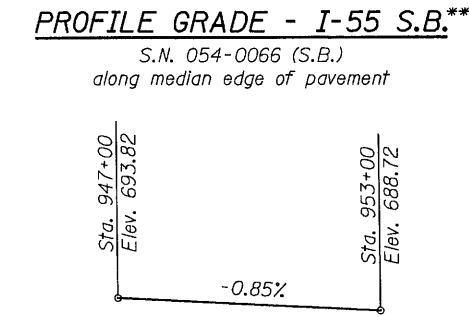
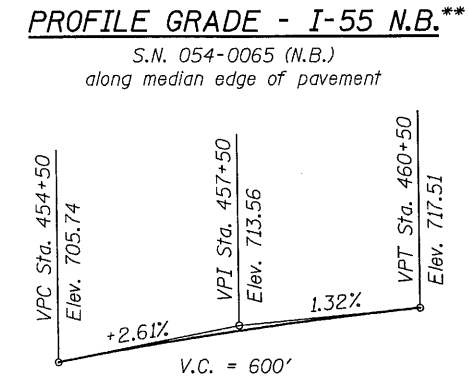
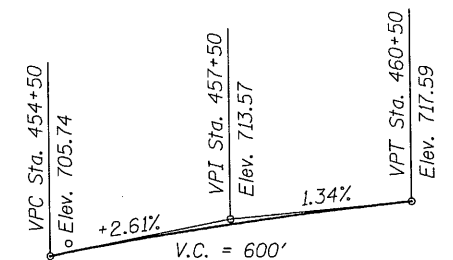
B.M.: TEA-6 chiseled Set on southwest approach wall of south bound lanes of S.N. 054-0066 at Sta. 456+47, 78' left, Elev. 711.07.

Existing Structure: S.N. 054-0065 (N.B.) and 054-0066 (S.B.) built in 1976 as FAI Route 55, Section 54-6HB, Sta. 457+00. The superstructure consists of reinforced concrete deck supported by steel wide flange beams continuous over three spans. Spans 1 & 3 are non-composite and Span 2 is composite. The substructure consists of open stub abutments supported by concrete piles and concrete frame piers supported on creosoted timber piles. Superstructure length is 121'-6" (N.B.) & 118'-3" (S.B.) back to back of abutments and 42'-0" out to out of deck with a 5°05'25" skew (L.F.). Existing deck to be removed and replaced. Traffic to be maintained using crossovers.

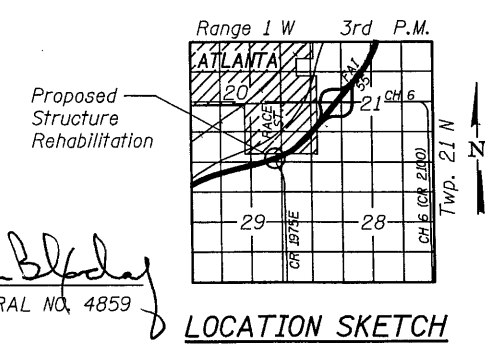
No Salvage.

SCOPE OF WORK

- Remove and replace bridge deck
- Make new deck composite in all spans
- Remove and replace approach pavements
- Remove and replace bearings at abutments
- Remove abutment back wall and wingwalls and make abutments semi-integral
- Repair slopewall, abutment caps and piers as necessary
- Diamond grind bridge decks and approach slabs 1/4" min.



CURVE DATA RACE STREET	CURVE DATA @ MEDIAN F.A.I. 55
$\Delta = 29^\circ 58' 18''$	$\Delta = 35^\circ 48' 03''$
$D = 3^\circ - 30'$	$D = 1^\circ - 30'$
$T = 435.20'$	$T = 1233.83'$
$L = 856.33'$	$L = 2386.85'$
$E = 57.63'$	$E = 194.32'$
$R = 1637.02'$	$R = 3819.92'$
S.E. = 4.3%	S.E. = 4.2%
P.C. = Sta. 946+12.30	P.C. = Sta. 453+88.01
P.T. = Sta. 954+68.63	P.T. = Sta. 477+74.85
P.I. = Sta. 950+47.50	P.I. = Sta. 466+21.84
SET = Sta. 945+26 to Sta. 946+51 & Sta. 954+24.05 to Sta. 955+49.05	SET = Sta. 452+51 to Sta. 454+51 & Sta. 477+05 to Sta. 479+05



SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient(A) = 0.046 g
Site Coefficient (S) = 1

LOADING HS20-44 & ALT
Allow 50 lbs/sq ft for future wearing surface.

DESIGN SPECIFICATIONS
2002 AASHTO Bridge Design Specifications
1995 FHWA Seismic Retrofit manual

DESIGN STRESSES

NEW CONSTRUCTION

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Steel)

EXISTING CONSTRUCTION

FIELD UNITS

fc = 1,400 psi
fs = 20,000 psi (Reinforcement)
fs = 20,000 psi (Steel)
fy = 36,000 psi (Steel)

STATION 457+00.00
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. ROUTE 55
SEC D6 LOGAN CO BR 2011-1
LOADING HS20-44 & ALT
STR. NO. 054-0065 (NB)

STATION 457+00.00
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. ROUTE 55
SEC D6 LOGAN CO BR 2011-1
LOADING HS20-44 & ALT
STR. NO. 054-0066 (SB)

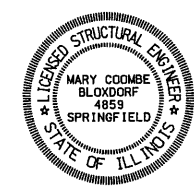
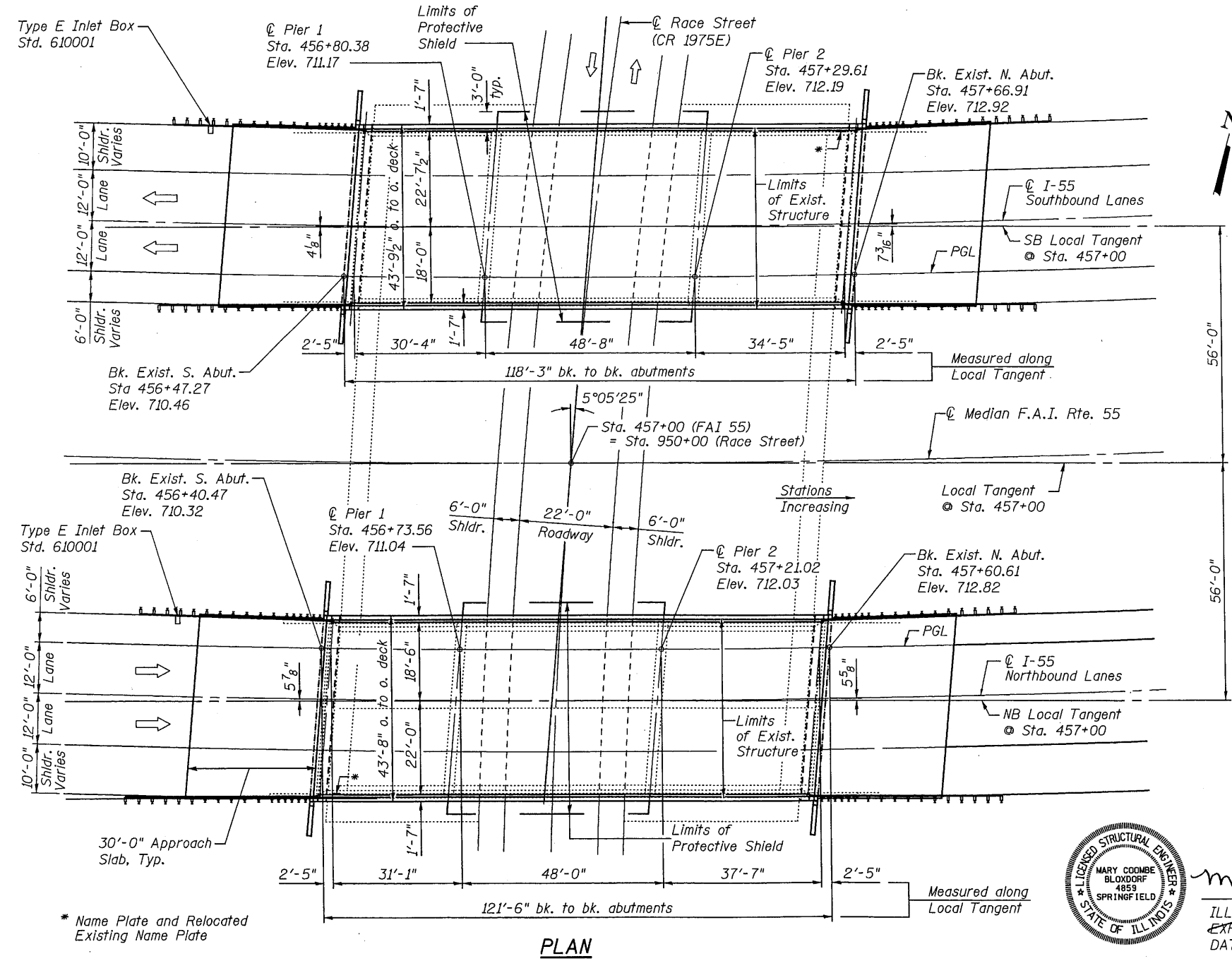
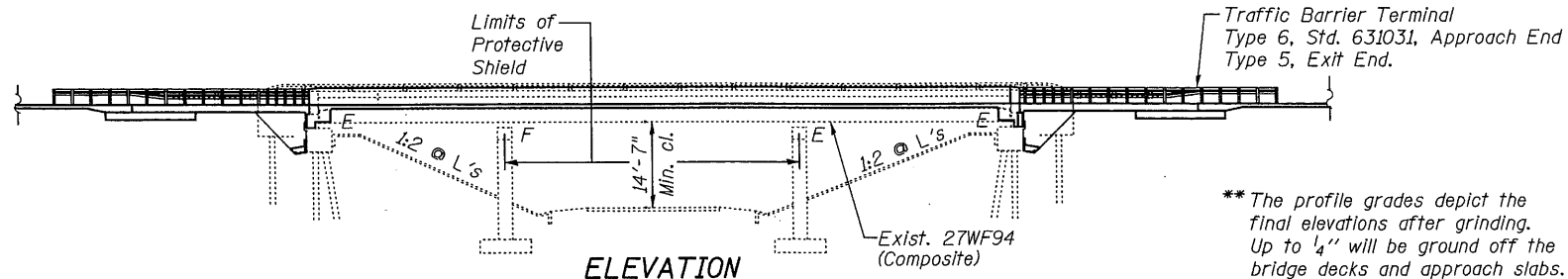
NAME PLATES

See Std. 515001
Existing Name Plates shall be cleaned and relocated next to new Name Plates. Cost included with Name Plates.

GENERAL PLAN

F.A.I. ROUTE 55 OVER RACE ST.
SECTION D6 LOGAN CO BR 2011-1
LOGAN COUNTY
STATION 457+00.00
STRUCTURE NO. 054-0065 (N.B.)
STRUCTURE NO. 054-0066 (S.B.)

Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703



Mary Coombe Bloxdorf
ILLINOIS STRUCTURAL NO. 4859
EXPIRES 11/30/14
DATE: 3/13/13

FILE NAME = ... \0540065-0066-72e11-001-gpe.dgn	USER NAME = .AMC.	DESIGNED - GJB	REVISED -
		CHECKED - MCB/RKM	REVISED -
		DRAWN - MML	REVISED -
		CHECKED - MCB/GJB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 LOGAN CO BR 2011-1	LOGAN	429	324
				CONTRACT NO. 72E11

ILLINOIS FED. AID PROJECT