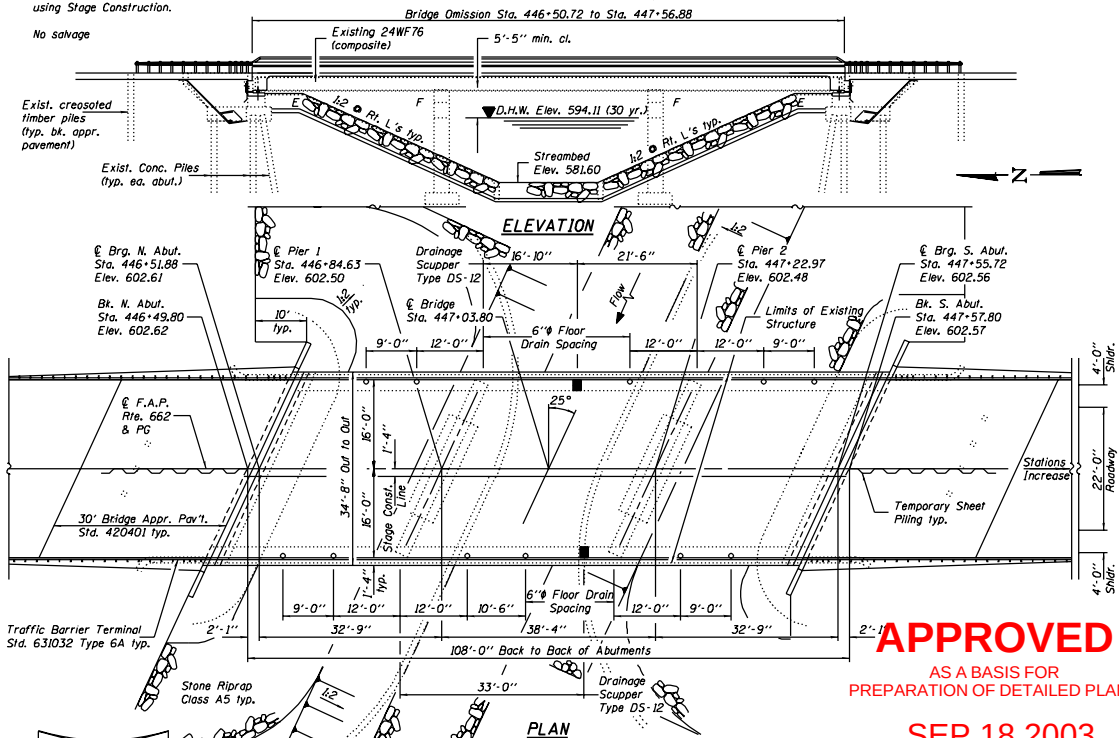
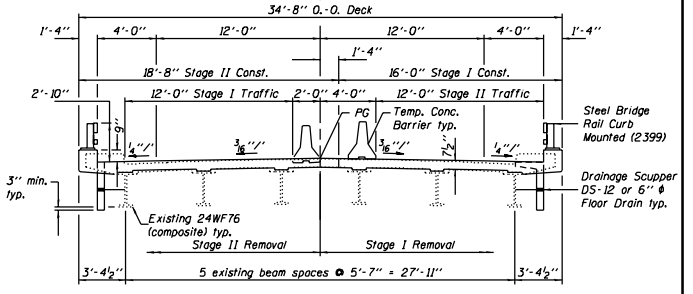
Bench Mark: IDOT BM#20A Chsld. "□" on SW corner of hub guard. S.N. 059-0008 Sta. 447+50, offset = 15.2' RT. NGVD 29, Elev. 602.96

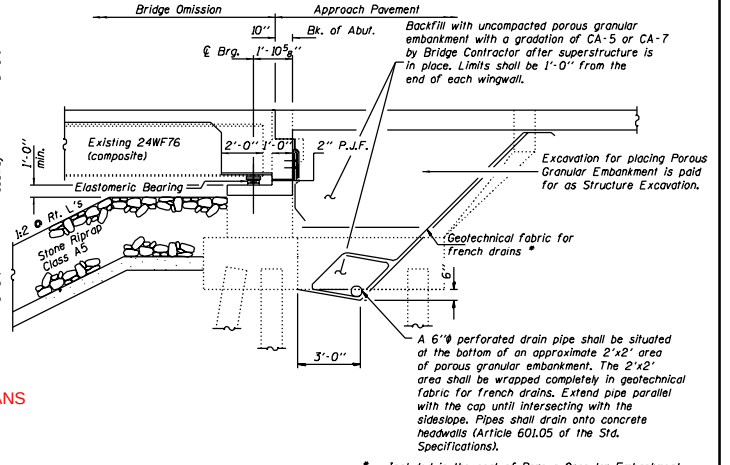
Existing Structure: S.N. 059-0008 built in 1961 as SBI Rte. 4, Section (V,T) B-1 at Sta. 447+03.8. The superstructure consists of a reinforced concrete deck on wide flange beams. The substructure consists of pile bent abutments and 2 single hammerhead piers supported on spread footings. The Bk. to Bk. abut. dimension measures 108'-0" while the O.-O. deck width measures 33'-8". Concrete deck to be removed and replaced using Stage Construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1
1 SHEET







Backfill with uncompacted porous granular embankment with a gradation of CA-5 or CA-7 by Bridge Contractor after superstructure is in place. Limits shall be 1'-0" from the end of each wingwall.

A 6"ϕ perforated drain pipe shall be situated at the bottom of an approximate 2'x2' area of porous granular embankment. The 2'x2' area shall be wrapped completely in geotechnical fabric for french drains. Extend pipe parallel with the cap until intersecting with the sideslope. Pipes shall drain onto concrete headwalls (Article 601.05 of the Std. Specifications).

* - Included in the cost of Porous Granular Embankment.

SECTION THRU SEMI-INTEGRAL ABUT.
(Horizontal dimensions @ Rt. L's)

APPROVED
AS A BASIS FOR
PREPARATION OF DETAILED PLANS
SEP 18 2003

HIGHWAY CLASSIFICATION

F.A.P. Rte. 662 - IL Rte. 4
Functional Class: Minor Arterial
ADT: 4050 (2001); 5000 (2023)
ADTT: 11%
Design Speed: 55 m.p.h.
Posted Speed: 55 m.p.h.

LOADING HS20-44

Future wearing surface not allowed.

DESIGN SPECIFICATIONS (New Const.)

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

Existing Structure
f_y = 33,000 psi (structural steel)
f_c = 1,400 psi (substructure)

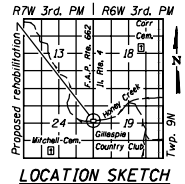
New Construction
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 6.7%g
Site Coefficient (S) = 1.0

SCOPE OF WORK

1. Remove and replace existing concrete deck and approach pavements.
2. Make new deck composite in positive moment regions.
3. Reconfigure existing abutments and wingwalls to semi-integral configuration.
4. Replace existing rocker bearing at abutments with elastomeric bearings.
5. Remove existing concrete slopewall and replace with A5 riprap.



LOCATION SKETCH

GENERAL PLAN
ILLINOIS ROUTE 4 OVER
HONEY CREEK
F.A.P. ROUTE 662
SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0008

DESIGNED	A.Y. Vinson
CHECKED	G.G. Eicher
DRAWN	W.D. Collins
CHECKED	M.D. Cima

EXAMINED 20
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES