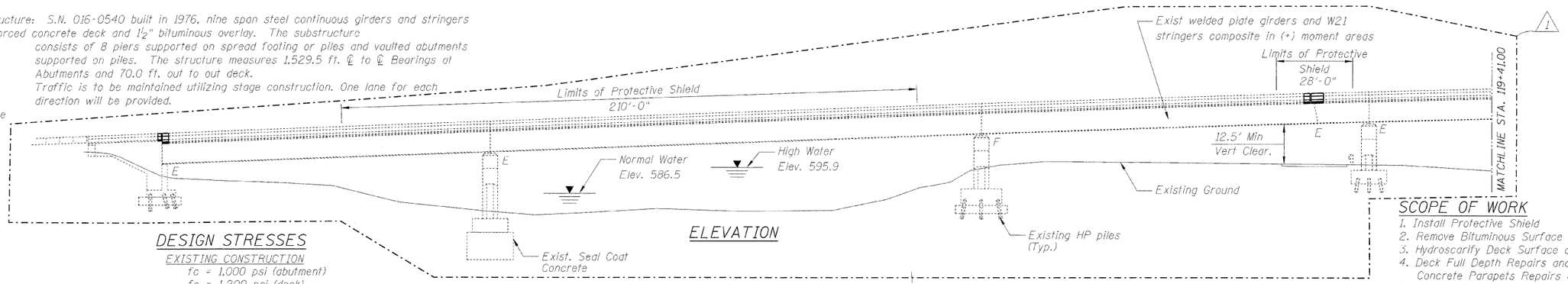
Benchmark: Survey Monument (Bronze Disk) located on the concrete sidewalk NE side of bridge for the commuter parking lot on Old Willow Road.
Sta. 125+91 offset 46 Rt Elev. 598.39

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure: S.N. 016-0540 built in 1976, nine span steel continuous girders and stringers with 8" reinforced concrete deck and 1½" bituminous overlay. The substructure consists of 8 piers supported on spread footing or piles and vaulted abutments supported on piles. The structure measures 1,529.5 ft. ℄ to ℄ Bearings at Abutments and 70.0 ft. out to out deck.
Traffic is to be maintained utilizing stage construction. One lane for each direction will be provided.

Salvage: None



ELEVATION

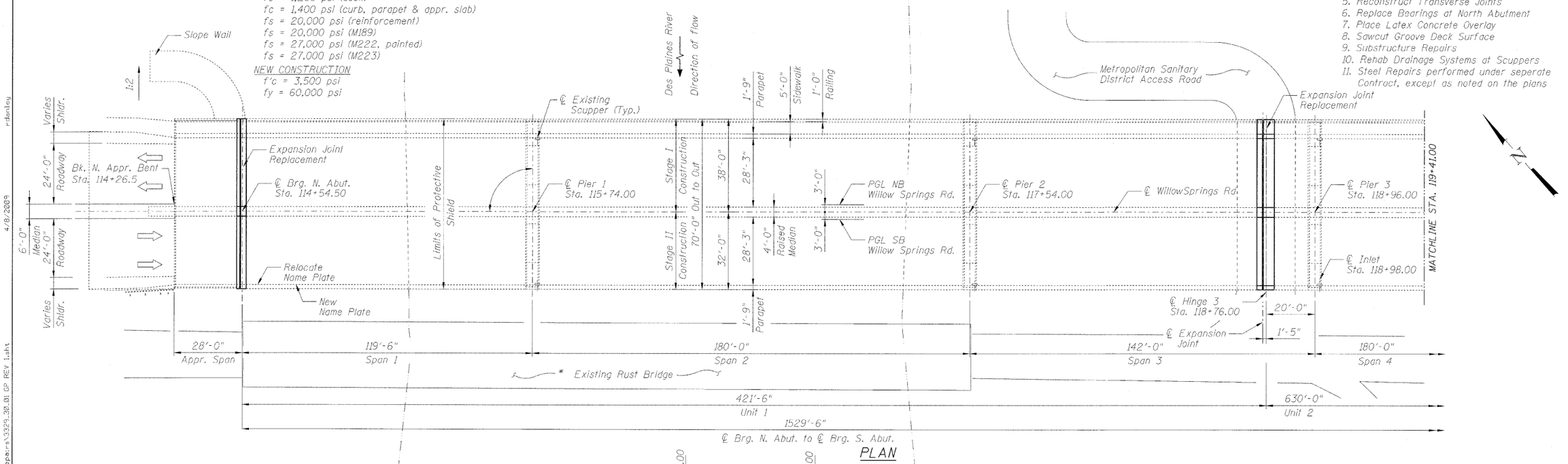
DESIGN STRESSES

EXISTING CONSTRUCTION
- fc = 1,000 psi (abutment)
- fc = 1,200 psi (deck)
- fc = 1,400 psi (curb, parapet & appr. slab)
- fs = 20,000 psi (reinforcement)
- fs = 20,000 psi (M189)
- fs = 27,000 psi (M222, painted)
- fs = 27,000 psi (M223)

NEW CONSTRUCTION
- f'c = 3,500 psi
- fy = 60,000 psi

SCOPE OF WORK

1. Install Protective Shield
2. Remove Bituminous Surface
3. Hydroscarify Deck Surface and Approach Spans
4. Deck Full Depth Repairs and Concrete Parapets Repairs and Removal
5. Reconstruct Transverse Joints
6. Replace Bearings at North Abutment
7. Place Latex Concrete Overlay
8. Sawcut Groove Deck Surface
9. Substructure Repairs
10. Rehab Drainage Systems at Scuppers
11. Steel Repairs performed under seperate Contract, except as noted on the plans



PLAN

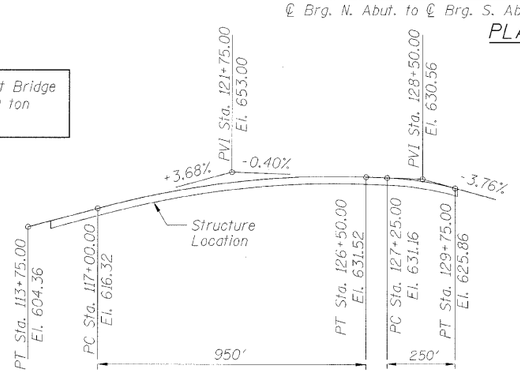
LOADING HS-20-44

No future wearing surface allowance

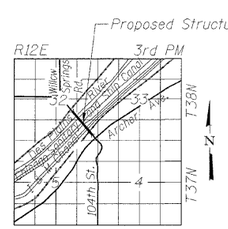
DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

* Existing Rust Bridge is posted to 10 ton weight limit



PROFILE GRADE



LOCATION SKETCH

STATE OF ILLINOIS
EWA K. MROCZEK
081-006067
LICENSED STRUCTURAL ENGINEER
DATE: 4/8/2009
SEAL EXPIRES: 11/30/2010

GENERAL PLAN AND ELEVATION I

FAU 2697 WILLOW SPRINGS ROAD
OVER DES PLAINES RIVER,
CHICAGO SANITARY & SHIP CANAL,
ILLINOIS AND MICHIGAN CANAL,
AND ICG RAILROAD
COOK COUNTY
S.N. 016-0540

DESIGNED	B. Sauter
CHECKED	E. Mroczek
DRAWN	R. Donley
CHECKED	B. Sauter

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
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1 Revised 4/08/09 E.K.M.

SHEET NO. S-1	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S-27 SHEETS	2697	142 B-1-1	COOK	48	15
			CONTRACT NO. 60D89		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

N:\PROJ\3329\3329.30\Design\Structural\CAD\Sht\Concrete Repairs\3329_30_01_GP REV 1.sht
4/8/2009 r-donley