

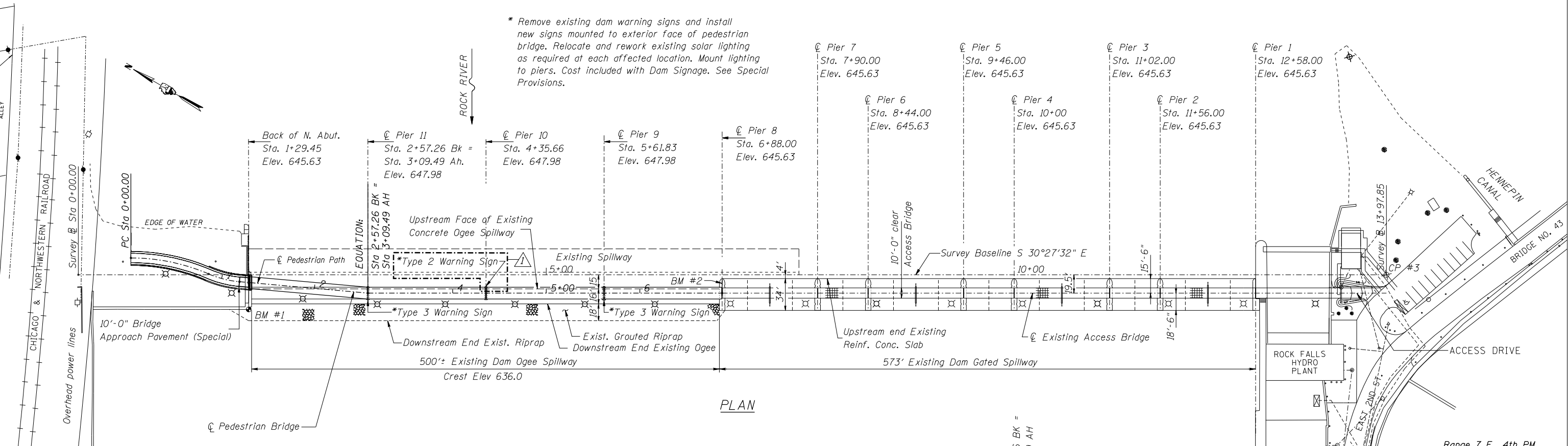
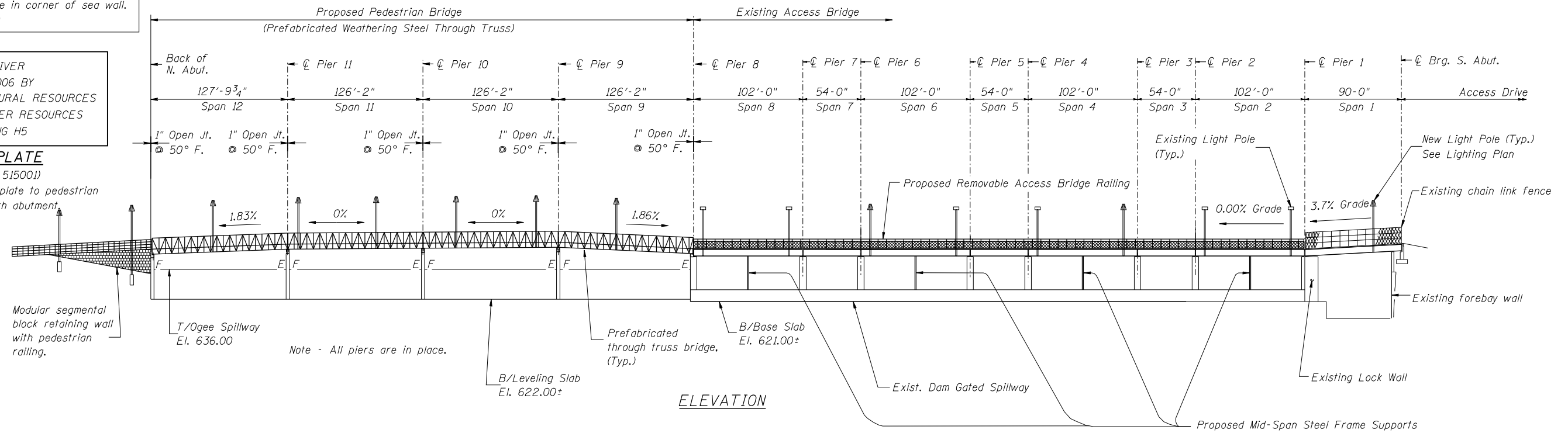
B.M. #1: Chiseled square in corner of sea wall.  
Elev. 633.74 (NAVD 88)

ROCK RIVER  
BUILT 2006 BY  
IL. DEPT. OF NATURAL RESOURCES  
OFFICE OF WATER RESOURCES  
LOADING H5

**NAME PLATE**

(See Std. 515001)

Note: Attach name plate to pedestrian railing at north abutment



\* Remove existing dam warning signs and install new signs mounted to exterior face of pedestrian bridge. Relocate and rework existing solar lighting as required at each affected location. Mount lighting to piers. Cost included with Dam Signage. See Special Provisions.

**WATERWAY INFORMATION**

Drainage Area = 8740 sq. mil. Low Grade Elev. = 627.0 @ Sta. = 10+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Created Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	42,000	6635	6369	0	0.11	636.85	636.96
Base	30	51,000	7380	7088	0	0.15	637.80	637.95
Overtopping	100	60,800	8568	8247	0	0.15	638.88	639.03
Max. Calc.	500	72,200	9767	9417	0	0.16	639.97	640.13

**DESIGN STRESSES**

f'c = 3,500 psi  
fy = 60,000 psi (reinforcement)  
fy = 50,000 psi (M270, Grade 50W) Superstructure

**LOADING**

Pedestrian Live Load = 85 psf  
Vehicle Live Load: H5 (10,000 lb. Truck) Ped. Bridge  
Vehicle Live Load: H15 (30,000 lb. Truck) Access Bridge

**DESIGN SPECIFICATIONS**

2002 AASHTO Load Factor Design and Guide Specifications for design of Pedestrian Bridges Published by AASHTO, August 1997

**SEISMIC DATA**

SPC = A  
A = 0.05g  
Site Coefficient (S) = 1.0

