

NOTE: Camber Overall Bridge Profile 1% Of The Bridge Length But At No Point Along The Bridge Shall The Deck Slope Be Greater Than 5%. Taking Into Account The Difference In Bearing Elevations. In Addition, All Truss Verticals Shall Be Plumb.

CONTRACT No. 83728

BILL OF MATERIAL (BRIDGE 1)

ITEM	DESCRIPTION	UNIT	QUANTITY
20700220	Porous Granular Embankment	Cu. Yd.	6
20700400	Porous Granular Embankment (Special)	Cu. Yd.	25
28100107	Stone Riprap, Class A4	Sq. Yd.	25
28200200	Filter Fabric	Sq. Yd.	25
50200100	Structure Excavation	Cu. Yd.	110
50300225	Concrete Structures	Cu. Yd.	41
50800205	Reinforcement Bars, Epoxy Coated	Lbs.	2500
X5020501	Underwater Structure Excavation Protection-Location 1	Each	1
X5020502	Underwater Structure Excavation Protection-Location 2	Each	1
X0322508	Pedestrian Truss Superstructure (Bridge 1)	Sq. Ft.	584

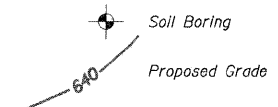
BRIDGE REACTION TABLE

ITEM	P (LBS) BRG.	H (LBS) ABUTMENT	L (LBS)
DEAD LOAD (2)	14,835	---	---
UNI. LIVE LOAD	12,410	---	---
VEHICLE LOAD	6,000	---	---
UPLIFT WIND 20 PSF	-4,655	---	---
WINDWARD/LEEWARD	-1,155	---	---
WIND	±720	3,725	---
THERMAL (2)	---	---	2,225

All Footings Have Been Designed Based On The Bridge Reactions Shown
 "P"- Vertical Load Per Base Plate
 "H"- Horizontal Load Per Footing
 "L"- Longitudinal Load Per Base Plate
 Bridge Lifting Weight = 17,000 Lbs (1)
 Total Bridge Weight = 59,340 Lbs (2)

- (1) Does Not Include Weight Of Concrete Deck
- (2) Includes Weight Of Concrete Deck

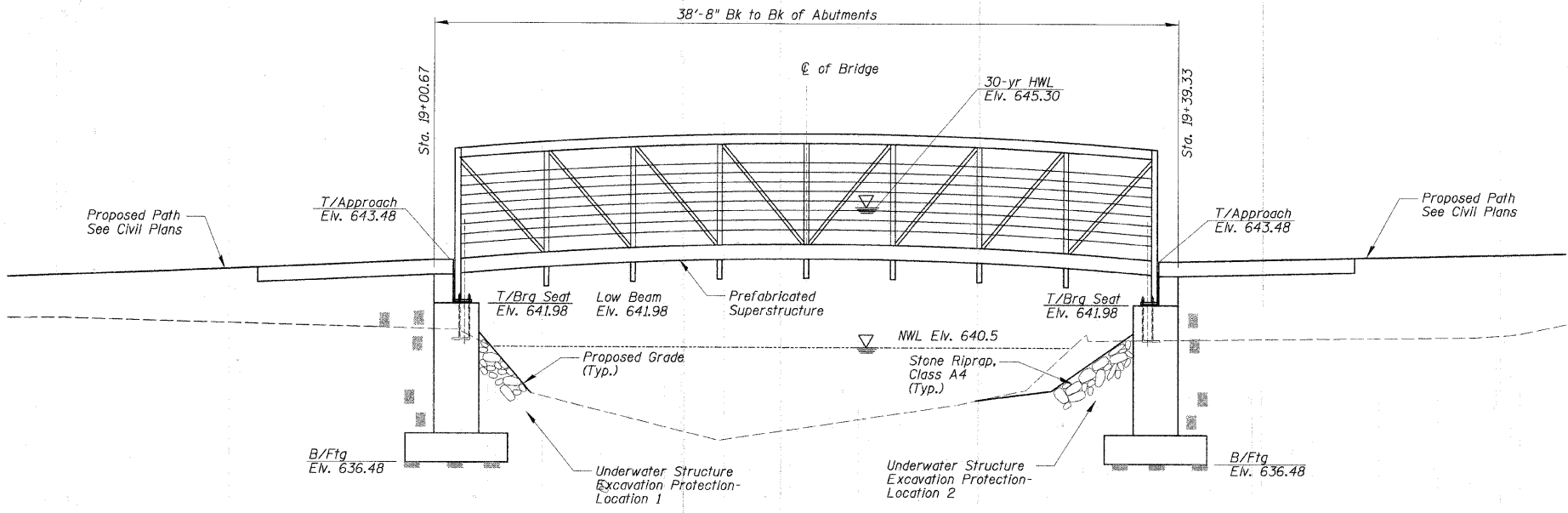
LEGEND



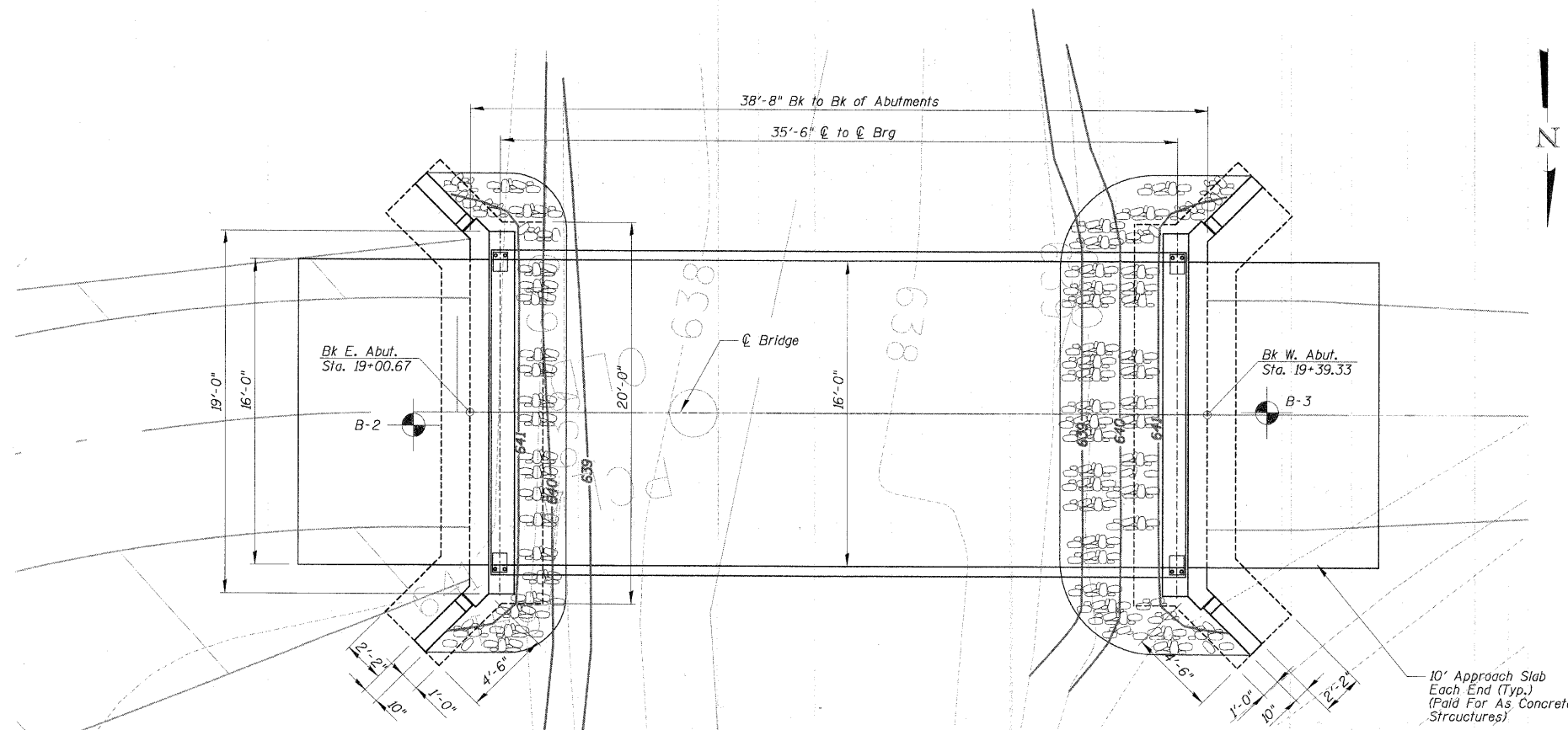
I Certify That To The Best Of My Knowledge, Information And Belief, This Bridge Design Is Structurally Adequate For The Design Loading Shown On The Plans. The Design Is An Economical One For The Style Of Structure And Complies With Requirements Of The Current "AASHTO Standard Specification For Highway And Bridges".



5-22-09
 MAJID MOBASSERI
 STRUCTURAL ENGINEER
 ILLINOIS REGISTRATION NO. 081-005058
 EXPIRATION DATE: 11/30/10



ELEVATION



PLAN

WATERWAY INFORMATION

Prop. Low Grade Elev. 642.48 @ Sta. 25+00 Drainage Area = 123 mi²

Flood	Freq. Yr.	Q cfs	Opening ft ²		Nat. H.W.E.	Head - ft		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	3695	-	90.00	644.46	-	0.06	-	644.52
Design	30	4722	-	90.00	645.22	-	0.08	-	645.30
	50	5170	-	90.00	645.61	-	0.08	-	645.69
Base	100	5885	-	90.00	646.01	-	0.08	-	646.09
Max. Calc.	500	7880	-	90.00	647.27	-	0.08	-	647.35

REVISIONS	
NAME	DATE
L. PER IDOT COMMENTS	5/22/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE 1
STA. 19+20.00
PLAN AND PROFILE

SCALE: NOT TO SCALE
 DATE 5/22/2009
 DRAWN BY PDR
 CHECKED BY PLB

DATE: _____ BY: _____
 CHECKED: _____
 PLAN NO. _____

DATE: _____ BY: _____
 CHECKED: _____
 PROFILE NO. _____

5/22/2009