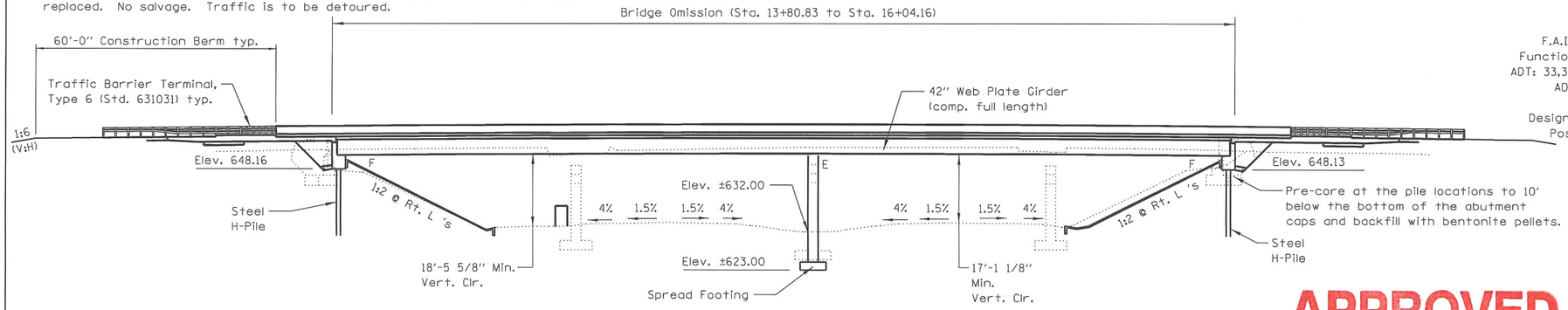
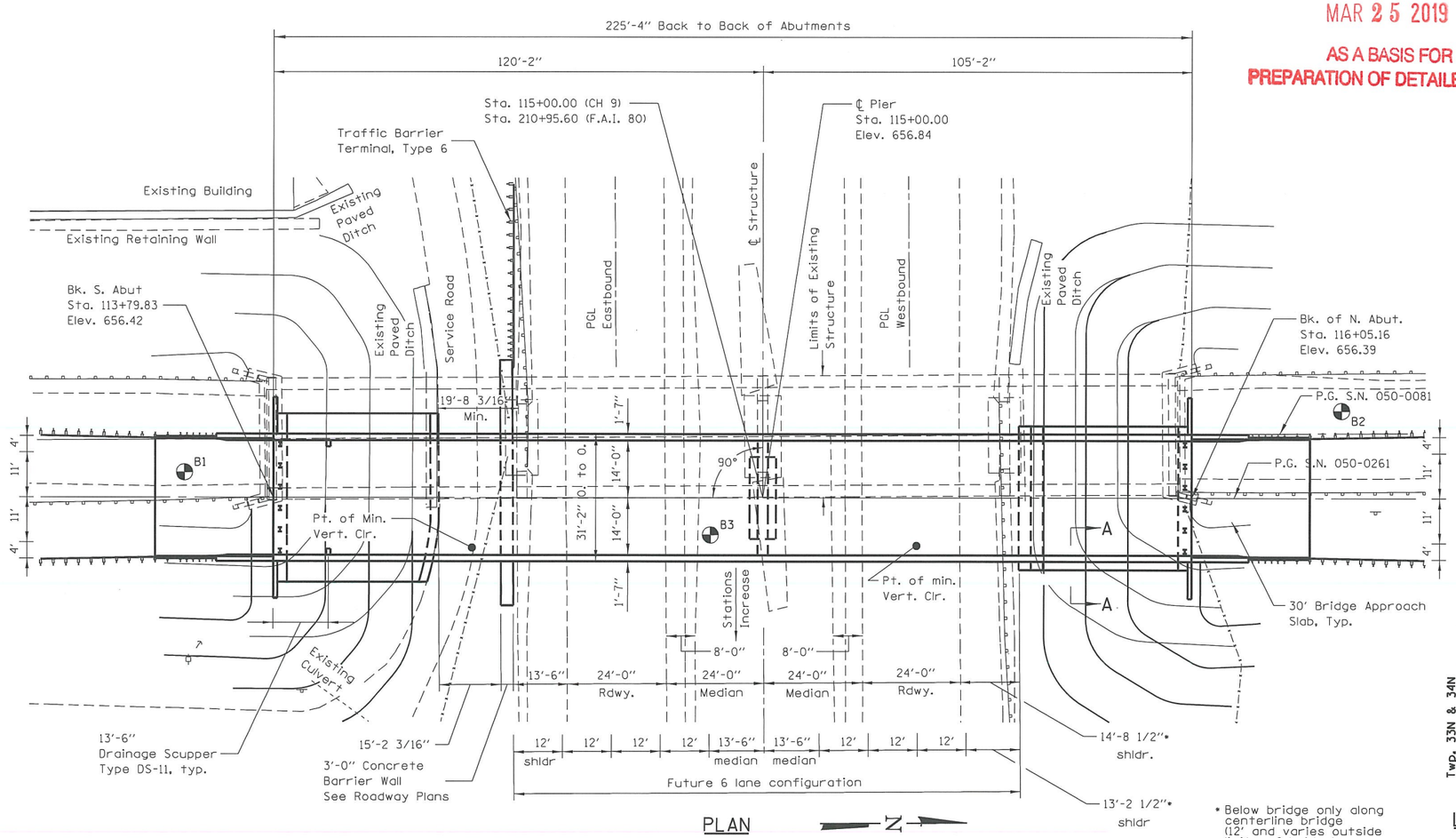
Bench Mark: "0" - Chiseled square on S.E. concrete curb of bridge S.N. 050-0081. Elev. 653.755

Existing Structure: SN 050-0081 (Sec 50-3HB-1) was constructed in 1961 as a four-span continuous steel I-beam structure with concrete piers on pile supported spread footings. The structure measures 224'-6" back to back of abutments and 29'-8" out to out of deck with 24'-0" clear width between the curbs. The deck was constructed as a 6 1/2" concrete deck. Structure to be removed and replaced. No salvage. Traffic is to be detoured.



ELEVATION



PLAN

* Below bridge only along centerline bridge (12' and varies outside limits of bridge)

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications

HIGHWAY CLASSIFICATION

F.A.I. Rte. 80 - I-80.
Functional Class: Interstate
ADT: 33,384 (2020); 39,804 (2040)
ADTT: 14,767 (2040)
DHV: 3980
Design Speed: 70 m.p.h.
Posted Speed: 70 m.p.h.

C.H. 9 - County Highway 9
Functional Class: Major Collector
ADT: 468 (2020); 558 (2040)
ADTT: 25(2040)
DHV: 56
Design Speed: 55 m.p.h.
Posted Speed: 55 m.p.h.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

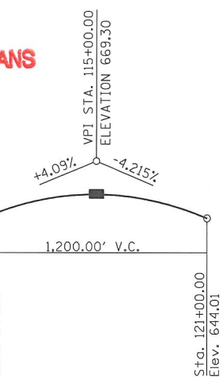
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.070
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.124
Soil Site Class = C

DESIGN STRESSES

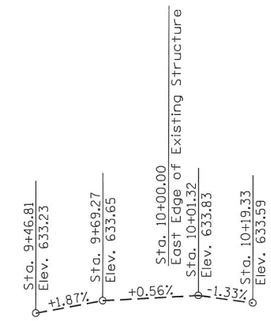
FIELD UNITS

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure Concrete)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

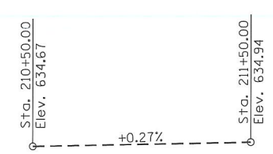
APPROVED
MAR 25 2019
AS A BASIS FOR PREPARATION OF DETAILED PLANS



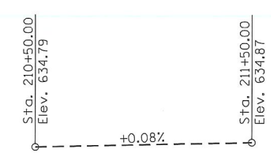
PROFILE GRADE CH 9
(Along ℄ Roadway)



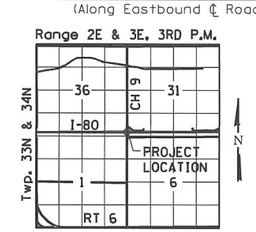
PROFILE GRADE SERVICE ROAD
(Along Westbound ℄ Roadway)



PROFILE GRADE I-80
(Along Eastbound ℄ Roadway)



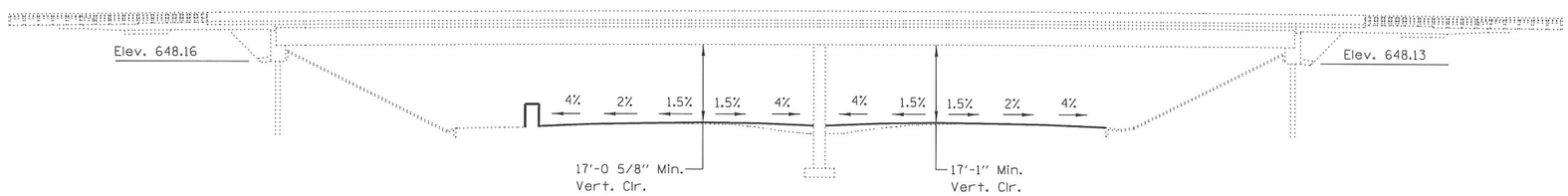
PROFILE GRADE I-80
(Along Westbound ℄ Roadway)



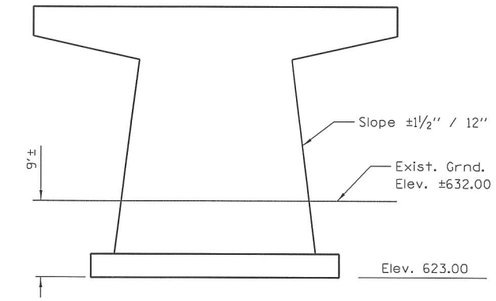
LOCATION SKETCH

GENERAL PLAN & ELEVATION
CH 9 OVER I-80
F.A.I. RTE. 80 (I-80)
SECTION (50-3) HBR-3
LASALLE COUNTY
STATION 115+00
SN 050-0261 (PROP.)

FILE NAME = CHAMLIN & ASSOCIATES, INC.	USER NAME = --	DESIGNED - JKC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		CHECKED - JKC	REVISED -						2 / 1
	PLOT SCALE = 1"=32'	DRAWN - ARR / LAG	REVISED -						CONTRACT NO. 66C59
	PLOT DATE = 01/16/2019	CHECKED - JKC	REVISED -		SHEET NO. OF SHEETS			ILLINOIS	FED. AID PROJECT

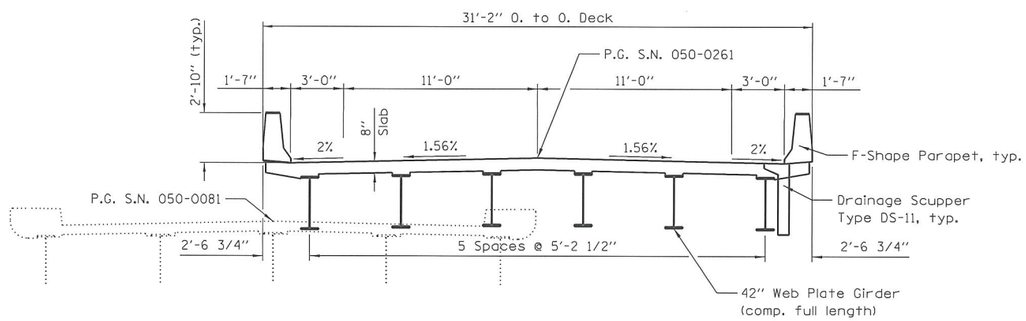


FUTURE ELEVATION
(Assumed PG Elev. 635.00)

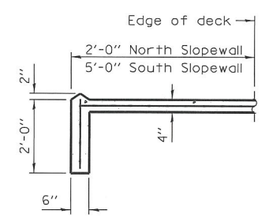


PIER SKETCH

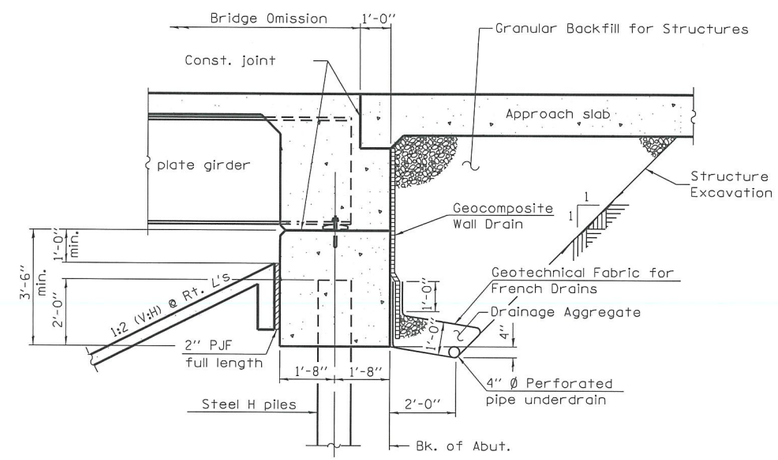
APPROVED
MAR 25 2019
AS A BASIS FOR
PREPARATION OF DETAILED PLANS



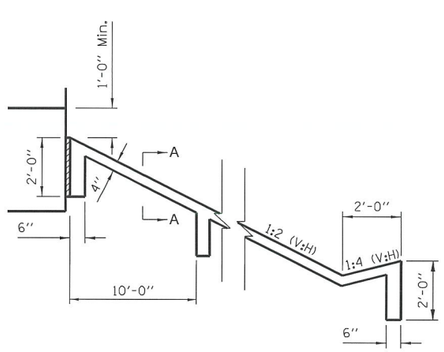
CROSS SECTION
Looking North



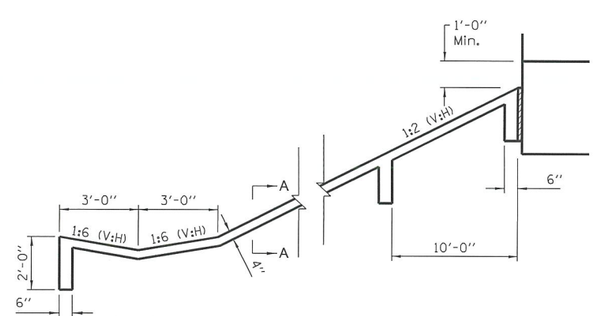
SECTION A-A



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)



SLOPE WALL ADJACENT TO SERVICE ROAD
(South)



SLOPE WALL ADJACENT TO I-80
(North)

GENERAL PLAN & ELEVATION
CH 9 OVER I-80
F.A.I. RTE. 80 (I-80)
SECTION (50-3) HBR-3
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	PLOT SCALE = 1"=32'	DRAWN - ARR / LAG	REVISED -					CONTRACT NO. 66C59		
	PLOT DATE = 01/16/2019	CHECKED - JKC	REVISED -		SHEET NO. OF SHEETS		ILLINOIS	FED. AID PROJECT		