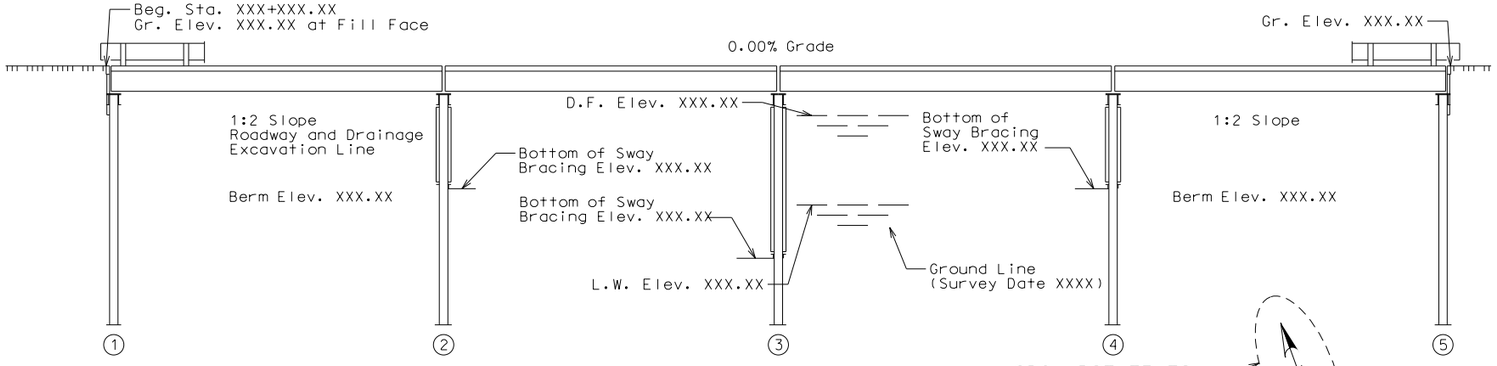
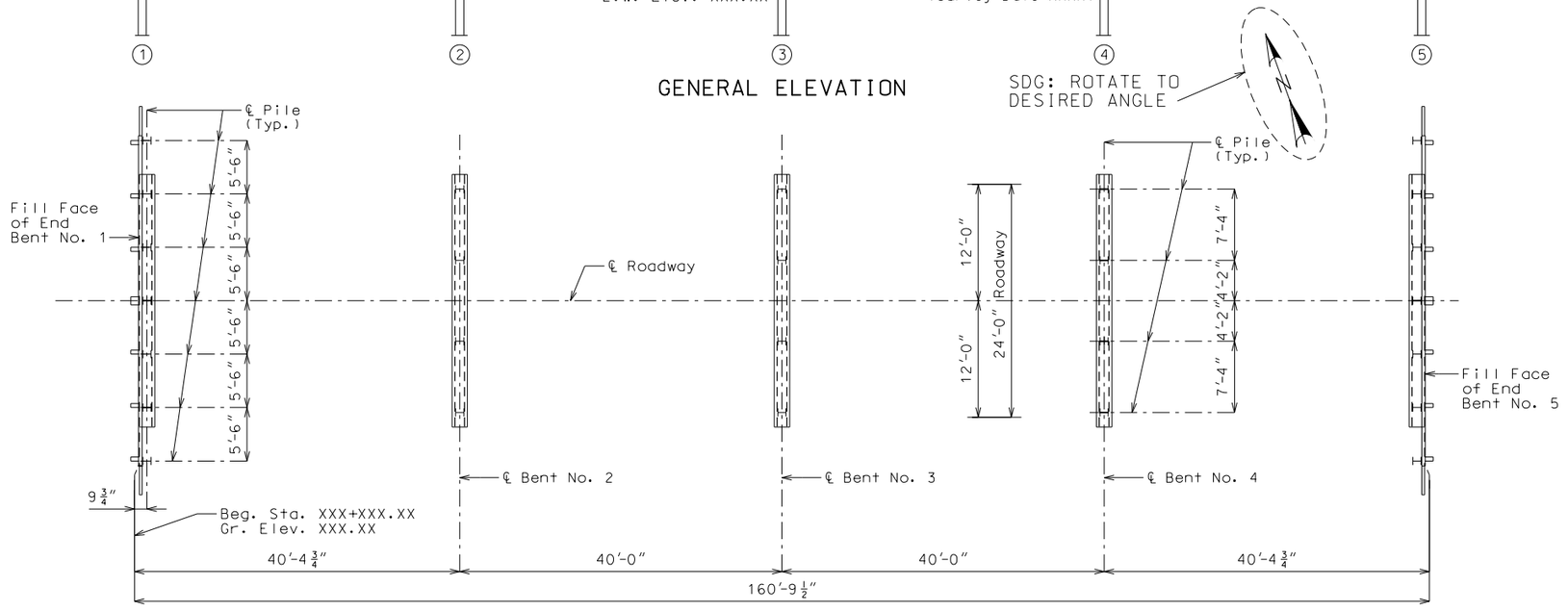
SEC/SUR * TWP * RGE *

(4 @ 40') PREFABRICATED SIMPLE SEGMENTED WIDE FLANG BEAM SPANS



GENERAL ELEVATION



PLAN

Indicates location of borings.

Notice and Disclaimer Regarding Boring Log Data

The locations of all subsurface borings for this structure are shown on the plan sheet(s) for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, are shown on Sheet(s) No. __ and may be included in the Electronic Bridge Deliverables. They will also be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

Foundation Data

Type	Design Data		Bent Number 1	2	3	4	5
Load Bearing Pile	Pile Type and Size		HP 14x73	HP 14x73	HP 14x73	HP 14x73	HP 14x73
	Number	ea	7	4	4	4	7
	Approximate Length Per Each	ft	*	*	*	*	*
	Pile Driving Verification Method		DF	DF	DF	DF	DF
	Design Bearing	kip	22	38	38	38	22
	Min. Hammer Energy Required	ft-lb	*	*	*	*	*

All piling shall be driven to a minimum nominal axial compressive resistance equal to 3.5 times the Design Bearing as shown on the plans.

General Notes

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications
Seismic Performance Category =
Acceleration Coefficient =

Design Loading:
H20-44
Earth 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf (Min.)

Design Unit Stresses:
Structural Steel (ASTM A709 Grade 50W) fy = 50.000 psi
Structural Steel (ASTM A709 Grade 36) fy = 36.000 psi
Steel Pile (ASTM A709 Grade 50) fy = 50.000 psi
Structural Steel Tubing (ASTM A500) fy = 46.000 psi

Timber:
All timber shall be standard rough sawn. At the contractor's option, timber may be untreated or protected with commercially applied timber preservatives. All timber shall have a minimum strength of 1500 psi and shall be either douglas fir in accordance with paragraph 123B (MC-19), 124B (MC-19) and 130BB of the current edition of Standard Grading Rules for West Coast Lumber, southern pine in accordance with paragraphs 312 (MC-19), 342 (MC-19) and 405.1 of the current edition of Southern Pine Inspection Bureau Grading Rules, or a satisfactory grade of sound native oak.

Bolts:
All bolts shall be ASTM F3125 Grade A325 Type 3, except as noted.

All ASTM A307 bolts and their accompanying hex nuts and washers and all ASTM A449 Type 1 studs and their accompanying heavy hex nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

Structural Steel:
All structural steel shall be ASTM A709 Grade 50W except piles, sway bracing, thrie beam rail assembly and structural tubing. Structural tubing coating shall be in accordance with Sec 718.

Substructure:
All substructure items specified in Sec 718.3.1 except for the pile point reinforcement and sway bracing will be considered completely covered by the contract unit price for Structural Steel Piles (14 in.).

Miscellaneous:
The superstructure only and cap beam units will be provided by the State and shall be transported from _____ Maintenance Lot. The superstructure shall be returned and stored at the same location as designated by the engineer after Bridge No. _____ is open to traffic.

Traffic Handling:
Traffic to be maintained on existing structure during construction. See roadway plans for traffic control.

Estimated Quantities

	Item		Total
	Structural Steel Pile (14 in.)	linear foot	X
*	Fabricated Structural Carbon Steel (Misc.)	pound	1
	Partial Furnishing of Superstructure	lump sum	1
	Tranporting and Erecting Superstructure	lump sum	1
	Removing and Storing Superstructure	lump sum	1

* Furnishing and installing sway bracing at intermediate bents.

Standard Drawing Guidance (do not show on plans:
Remove the boring data notes if does not apply.

Hydrologic Data

Drainage Area = ___ mi²
Design Flood Frequency = ___ years
Design Flood Discharge = ___ cfs
Design Flood (D.F.) Elevation = _____
Base Flood (100-year)
Base Flood Elevation = _____
Base Flood Discharge = ___ cfs
Estimated Backwater = __ ft
Average Velocity thru Opening = __ ft/s
Freeboard (50-year)
Freeboard = __ ft
Roadway Overtopping
Overtopping Flood Discharge = ___ cfs
Overtopping Flood Frequency = ___ years
_____ Flood Elevation = _____

B.M.

LOCATION SKETCH

BRIDGE: ROUTE * OVER *
ROUTE * FROM * TO *
ABOUT * MILES * OF *
BEGINNING STA. _____

Designed
Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 7/23/2020
ROUTE * | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY *
JOB NO. *
CONTRACT ID.
PROJECT NO.
BRIDGE NO. TEMP 1

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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