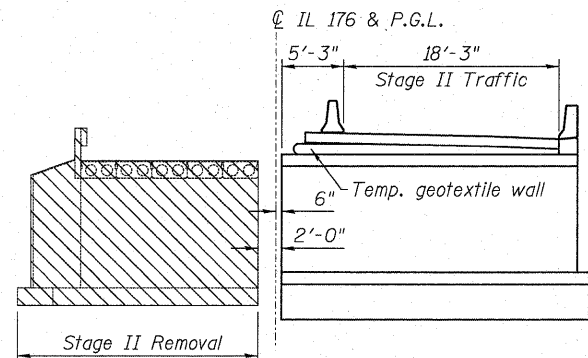
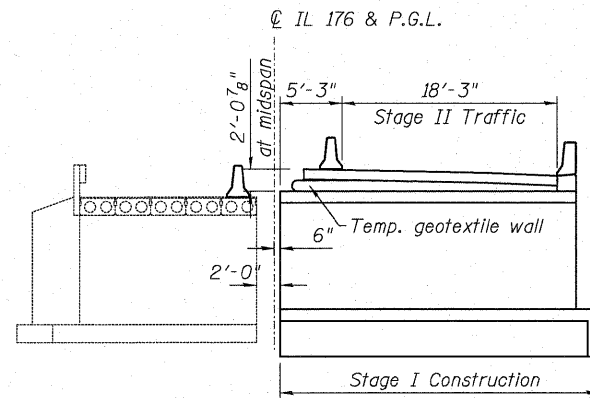


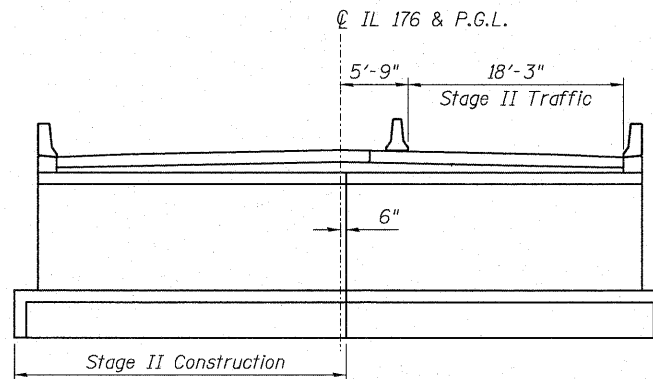
STAGE I REMOVAL
(Looking East)



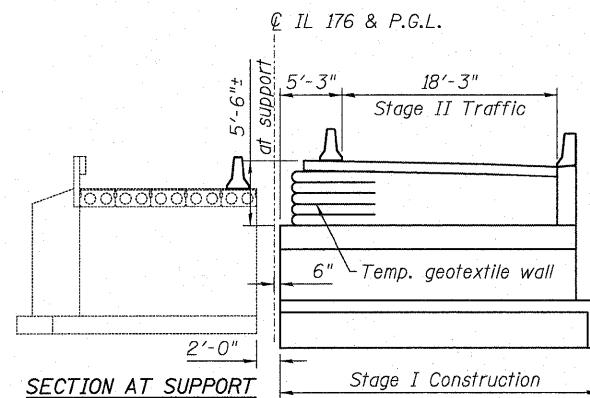
STAGE II REMOVAL
(Looking East)



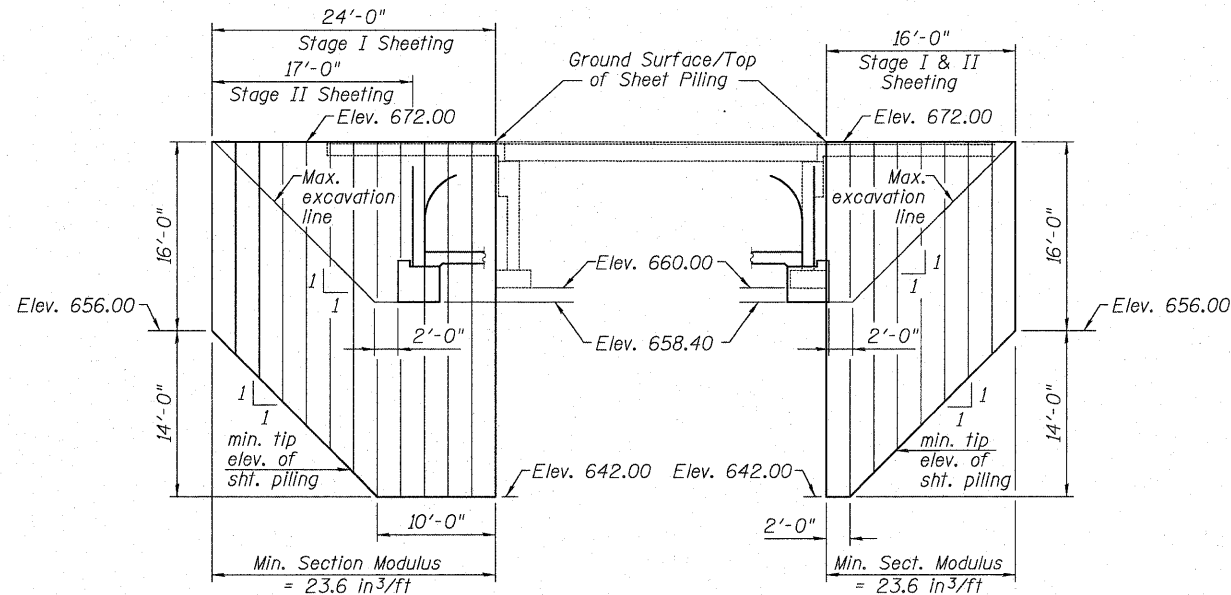
SECTION AT MIDSPAN
(Looking East)



STAGE II CONSTRUCTION
(Looking East)



STAGE I CONSTRUCTION AND STAGE II TRAFFIC
(Looking East)



TEMPORARY SHEET PILING
AT WEST END

TEMPORARY SHEET PILING
AT EAST END

Notes:
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
The option of using a precast footing is not allowed.
The option of using precast wingwalls is not allowed.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
All details shown are developed assuming the use of cast-in-place headwalls and wingwalls placed as shown. The Contractor has the option of using precast headwalls. If the precast option is used the details for the headwalls shall be submitted to the Engineer for approval.
The foundation design is based on the following maximum reactions applied at the top of the footing pedestal:
Vertical: 15.7 k/ft (DL) + 3.6 k/ft (LL)
Horizontal: 3.8 k/ft (DL) + 1.7 k/ft (LL)
The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete foundation design with calculations, details, and the required structural seals shall be submitted for review and approval.
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the Stage Removal Line before Stage I Removal to ensure the remaining portion will not be prematurely damaged.
Cost of excavation is included in the pay item Three Sided Precast Concrete Structure 32' x 10'.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq. Yd.	110
Filter Fabric	Sq. Yd.	110
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	560
Concrete Structures	Cu. Yd.	490.9
** Protective Coat	Sq. Yd.	178
Reinforcement Bars, Epoxy Coated	Pound	59,260
Bar Splicers	Each	142
Furnishing Metal Shell Piles 12" x 0.250"	Foot	1,587
Driving Piles	Foot	1,587
Test Pile Metal Shells	Each	2
Name Plates	Each	1
Geocomposite Wall Drain	Sq. Yd.	134
Geotextile Retaining Wall	Sq. Ft.	130
Porous Granular Embankment, Special	Cu. Yd.	177
Three-Sided Precast Concrete Structures, 32'x10'	Foot	51.2
Temporary Sheet Piling	Sq. Ft.	1,004

** Protective Coat shall be applied to top surface and inside face of the parapet Barrier.