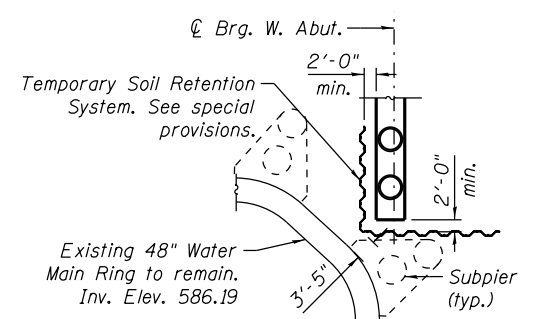
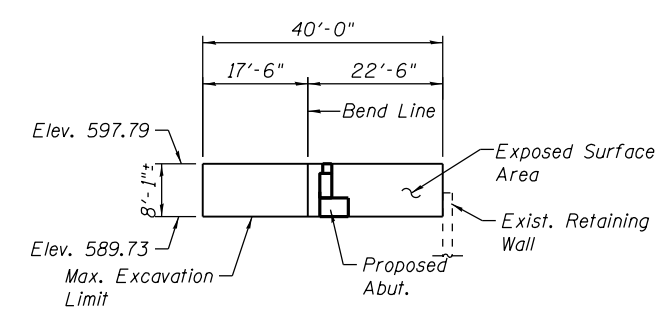


SUBSTRUCTURE LAYOUT PLAN

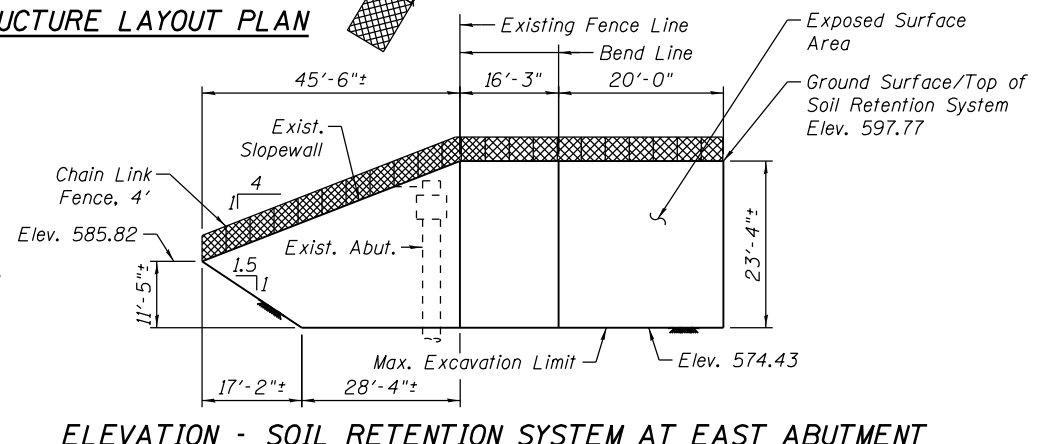
NOTE:
The contractor shall verify exact location of existing 48" Water Main Ring and Subpiers prior to installing Temporary Soil Retention System.



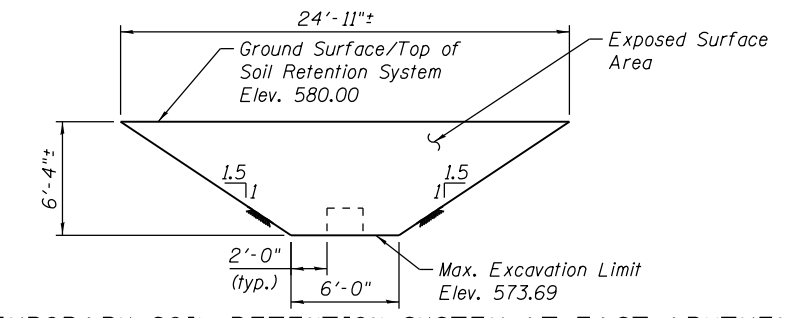
PLAN - TEMPORARY SOIL RETENTION SYSTEM AT WEST ABUTMENT



ELEVATION - TEMPORARY SOIL RETENTION SYSTEM AT WEST ABUTMENT (Looking North)
(See Note 4)



ELEVATION - SOIL RETENTION SYSTEM AT EAST ABUTMENT (Looking North)
(See Note 4)



ELEVATION - TEMPORARY SOIL RETENTION SYSTEM AT EAST ABUTMENT WINGWALL (Looking East)
(See Note 4)

NOTE A:
The Drilled Shafts to be installed thru Existing Abandoned Tunnel require Permanent Casing. (see substructure sheets for details and Note 6.)

NOTE B:
The Drilled Soldier Piles to be installed thru Existing Abandoned Tunnel require Permanent Casing. (see substructure sheets for details and Note 6.)

NOTE C:
The Drilled Shafts are to be installed thru the Existing Reinforced Concrete Caissons (See Note 6.)

- NOTES:**
- Existing tunnels bulkheaded and filled with CLSM grout prior to construction of SN 016-1711 as part of advanced contract (By Others).
 - Existing Utility between girders to be relocated (By Others) prior to bridge demolition. Utility to be placed back on proposed bridge (By Others).
 - Soil Retention System to be left in place. Required for proposed abutment construction. To be removed in future contract (By Others).
 - A cantilever sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system and soil retention system design including plan details and calculations for review and acceptance by the Engineer.
 - The Contractor shall take precautions to protect existing utilities and foundations during construction of the bridge. The utilities were located based on SUE and utility supplier information available at design.
 - Contractor shall provide equipment, labor, and materials as required to install drilled shafts and soldier piles thru existing abandoned tunnel or existing reinforced concrete caissons at locations shown. The costs incurred by installation thru tunnel or existing reinforced concrete caissons shall be included under pay item Foundation Construction at Tunnel/Existing Shaft Obstructions.

LEGEND:

- | | | | |
|----------------|-------|------------------------|-------------------------------------------|
| Combined Sewer | ←←←←← | Fire Hydrant | ⊙ |
| Electric | —E— | Light Pole | ⊙ |
| Fiber Optic | —FO— | Soil Boring | ⊙ |
| Telephone | —T— | Bulkhead | ⊙ |
| Storm Sewer | →→→→→ | Area filled with Grout | ▨ (Part of advanced contract - By Others) |
| Water Line | —W— | | |

BILL OF MATERIAL

Item	Unit	Total
Temporary Soil Retention System	Sq. Ft.	481
Soil Retention System	Sq. Ft.	1,636
Chain Link Fence, 4'	Foot	84
Foundation Construction at Tunnel/Existing Shaft Obstructions	Each	19



USER NAME = dabe2lcd	DESIGNED - DD	REVISED
PLOT SCALE = N.T.S.	CHECKED - EJO	REVISED
PLOT DATE = 3/27/2014	DRAWN - BRD	REVISED
	CHECKED - EJO	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE LAYOUT
STRUCTURE NO. 016-1711

SHEET NO. S-07 OF S-47 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2013-036R	COUNTY COOK	TOTAL SHEETS 256	SHEET NO. 99
CONTRACT NO. 60W71				
ILLINOIS FED. AID PROJECT -NUMBER-				

0161711-60W71-S07-SubStruct