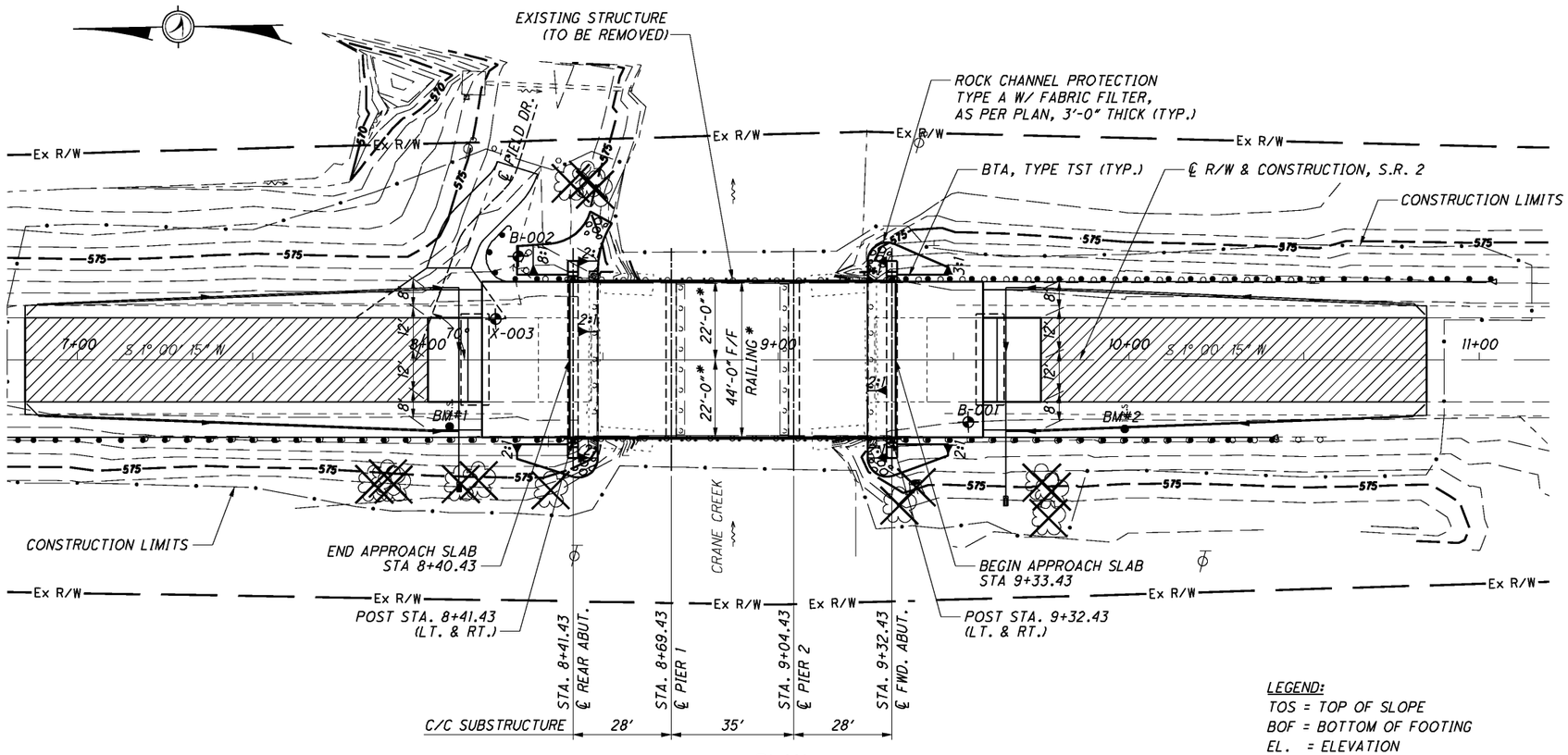
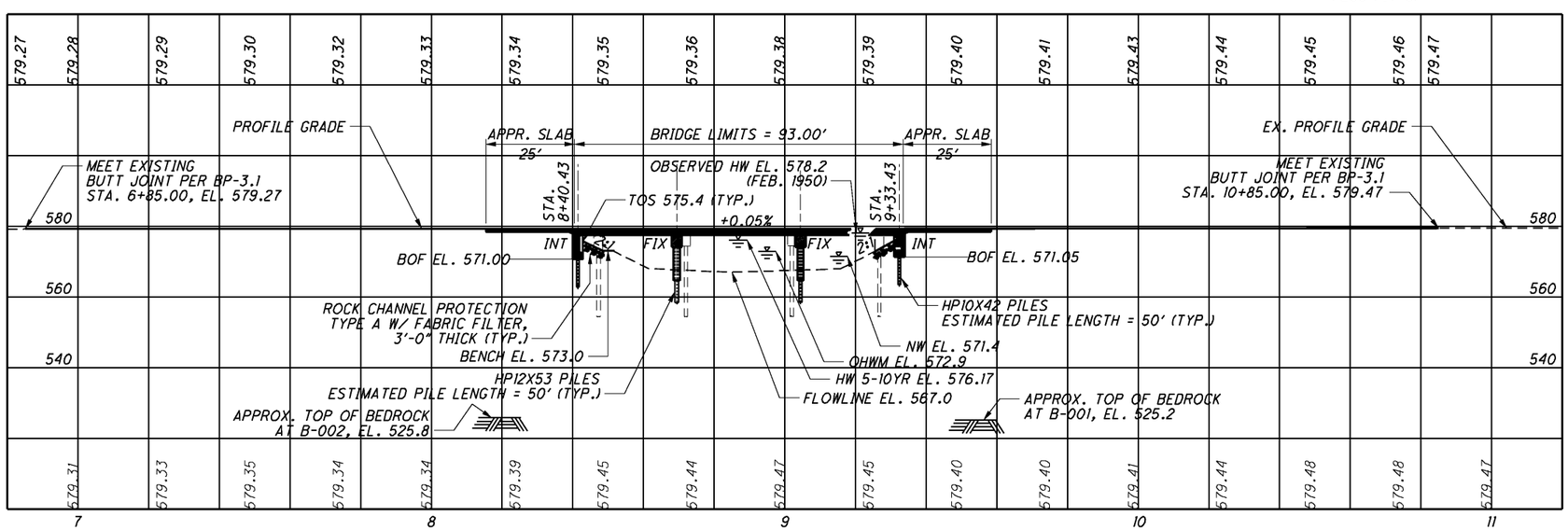



## PLAN

LEGEND:
TOS = TOP OF SLOPE
BOF = BOTTOM OF FOOTING
EL. = ELEVATION
BTA = BRIDGE TERMINAL ASSEMBLY
* = PLUS FIT-UP




## PROFILE ALONG ℄ OF R/W & CONSTRUCTION

## BENCHMARK DATA

BM #1 - IRON PIN SET W/ CAP
STA. 8+06.19 ELEV. = 578.84 OFFSET = 19.15' RT.
BM #2 - IRON PIN SET W/ CAP
STA. 9+98.80 ELEV. = 578.74 OFFSET = 19.74' RT.

## PROPOSED WORK:

1. REMOVE EXISTING CONCRETE SLAB, PIERS, ABUTMENTS AND WINGWALLS.
2. INSTALL PILES AND CONSTRUCT PIERS, ABUTMENTS AND WINGWALLS. INSTALL CONCRETE BOXBEAMS ON NEW ELASTOMERIC BEARING PADS AND CONSTRUCT COMPOSITE CONCRETE DECK.
3. CONSTRUCT APPROACH SLABS AND SEAL CONCRETE SURFACES.
4. INSTALL NEW TST RAILING.

## NOTES:

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

## DESIGN TRAFFIC:

2013 ADT = 6760 2013 ADTT = 1825
2033 ADT = 8380 2033 ADTT = 2263
DIRECTIONAL DISTRIBUTION = 55%

## LEGEND:

⊕ BORING LOCATION

## HYDRAULIC DATA:

DRAINAGE AREA = 45 SQ. MI.
5-10 YEAR HW ELEVATION = 576.17 (FROM EXISTING PLANS)
STRUCTURE CLEARS THE 5-10 YEAR HW BY 0.87 FEET.

## EXISTING STRUCTURE

TYPE: THREE SPAN REINFORCED CONCRETE SLAB ON CAPPED PILE PIERS AND ABUTMENTS
SPANS: 24'-0"±, 30'-0"±, 24'-0"± C/C BEARINGS
ROADWAY: 44'-0"± F/F GUARDRAIL
LOADING: S-20-46
SKEW: 0°±
APPROACH SLABS: 15'-0"± LONG
ALIGNMENT: TANGENT
CROWN: 0.0156 FT/FT±
WEARING SURFACE: 4"± ASPHALT CONCRETE
STRUCTURE FILE NUMBER: 6200036
YEAR BUILT: 1952

## PROPOSED STRUCTURE

PROPOSED WORK: NEW COMPOSITE REINFORCED CONCRETE DECK WITH TWIN STEEL TUBE BRIDGE RAILING ON PRESTRESSED CONCRETE BOX BEAMS AND REINFORCED CONCRETE SUBSTRUCTURES
TYPE: THREE SPAN COMPOSITE REINFORCED CONCRETE BOX BEAMS ON CAPPED PILE PIERS AND INTEGRAL ABUTMENTS
SPANS: 28'-0", 35'-0", 28'-0" C/C SUBSTRUCTURE
ROADWAY: 44'-0" F/F RAILING
LOADING: HL-93; 60 PSF FWS
SKEW: NONE
APPROACH SLABS: 25' LONG (AS-1-81)
ALIGNMENT: TANGENT
CROWN: 0.016 FT/FT
WEARING SURFACE: 1" MONOLITHIC CONCRETE
STRUCTURE FILE NUMBER: 6200044
COORDINATES: LATITUDE: N41°37'10" LONGITUDE: W83°15'35"

DESIGN AGENCY
THOMAS FOK & ASSOC., INC.
CONSULTING ENGINEERS & SURVEYORS
3896 MAHONING AVE., YOUNGSTOWN OHIO
TEL: (330) 799-1501

| DATE | REVIEWED | DRAWN | DESIGNED | CHECKED |
|---|---|---|---|---|
| 7-25-12 | SDL | DAB | WHT | DAK |

STRUCTURE FILE NUMBER 6200044
REVISED

OTTAWA COUNTY
STA. 8+40.43
STA. 9+33.43

SITE PLAN
BRIDGE NO. OTT-002-0016
OVER CRANE CREEK

OTT-2-00.16
PID No. 86960



DATE: 08-OCT-12 09:26
FILE: J:\JOB\8132 OTT-002-0016\STRUCTURES\002_0016SP001.DGN
SCALE: 1 : 20E