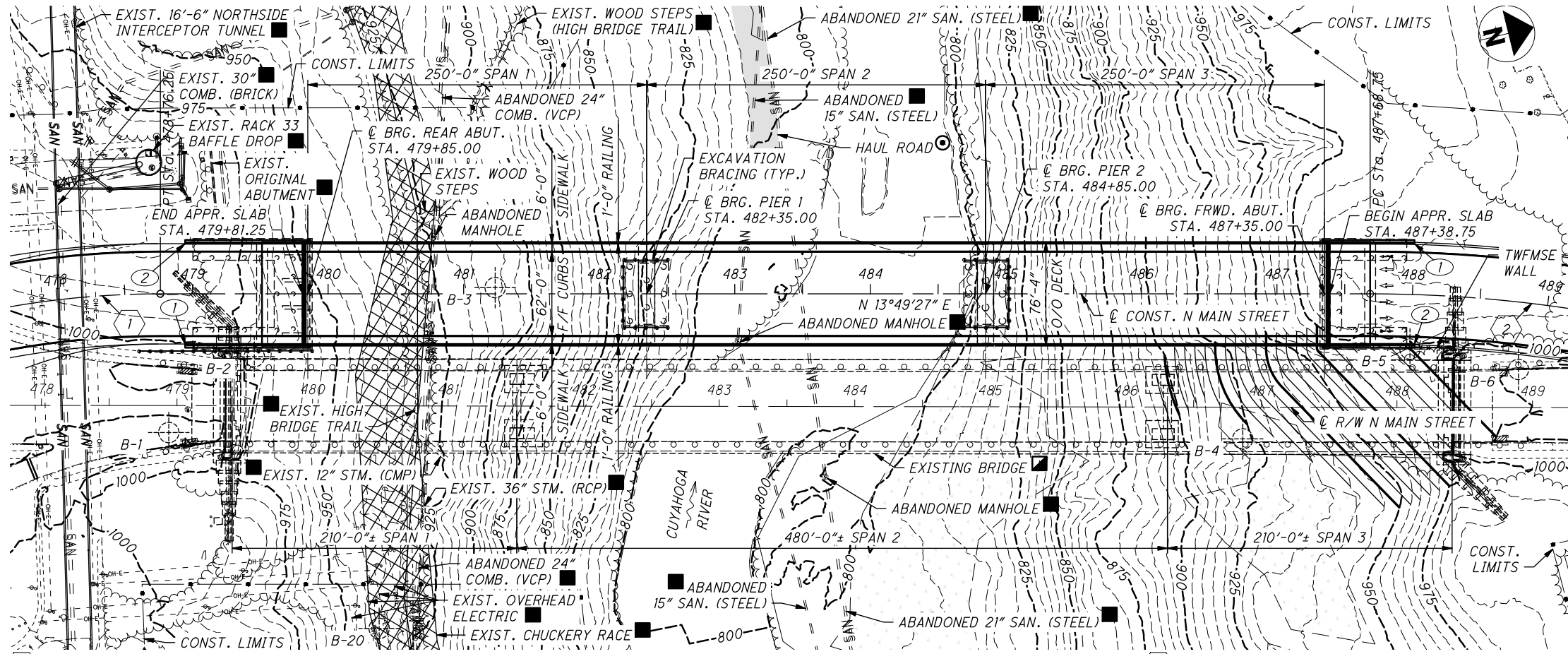




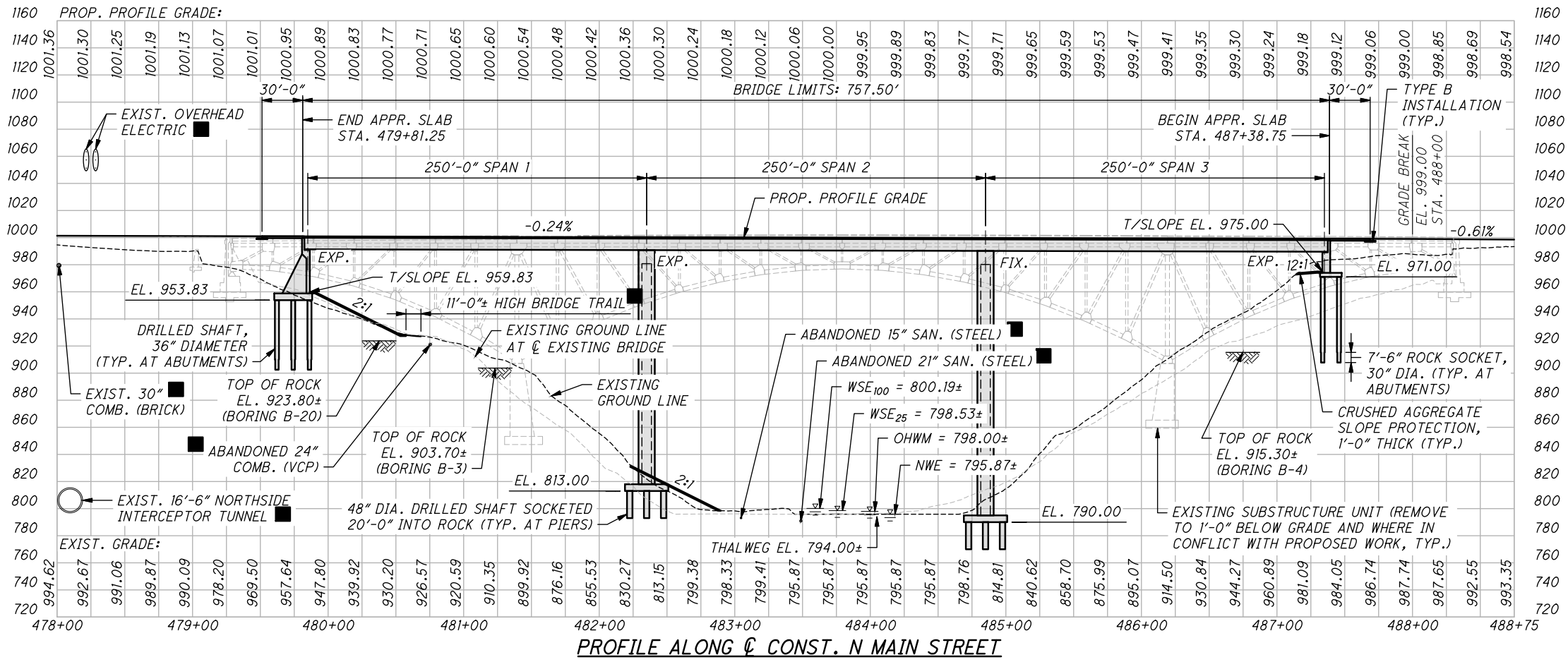
# Appendix A

## Structure Alternative Plans



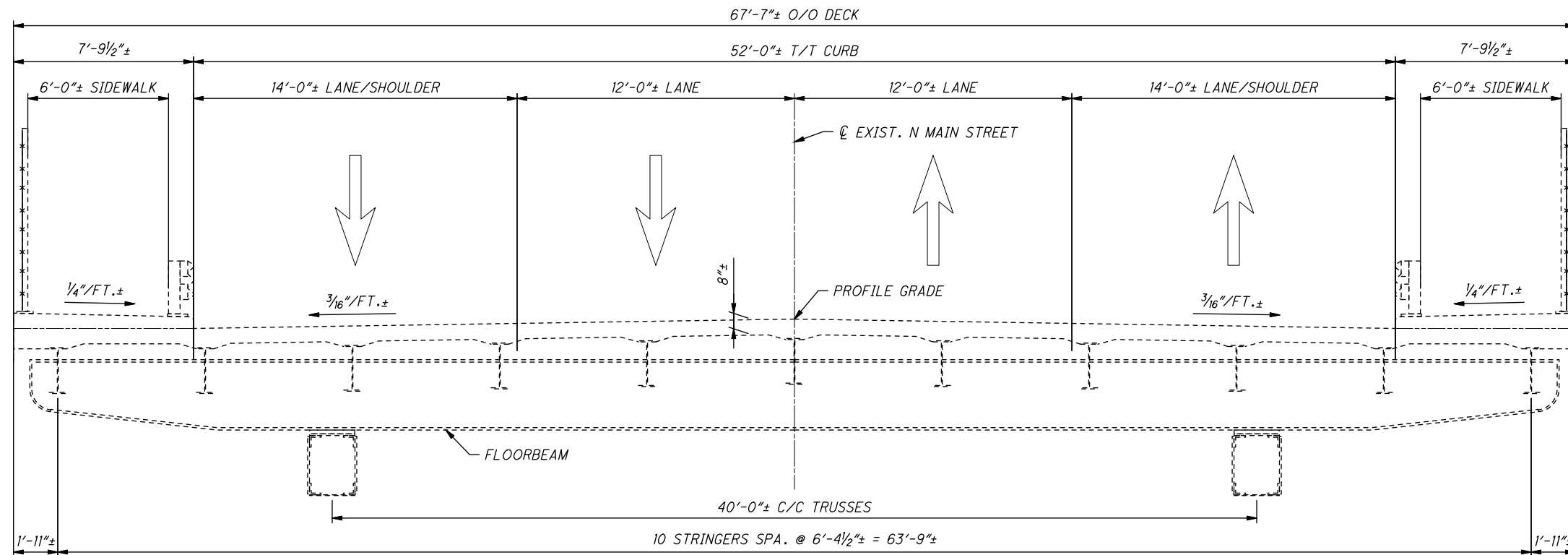
1 HORIZONTAL CURVE DATA  
P.I. = Sta. 477+53.37  
D = 21° 56' 04"  
Dc = 8° 48' 53"  
R = 650.000  
T = 125.96'  
L = 248.84'  
E = 12.09  
C = 247.32  
C. B. = N 2° 51' 25" E

2 HORIZONTAL CURVE DATA  
P.I. = Sta. 489+08.80  
D = 15° 56' 41"  
Dc = 5° 43' 46"  
R = 1000.000  
T = 140.05'  
L = 278.29'  
E = 9.76  
C = 277.39  
C. B. = N 21° 47' 47" E

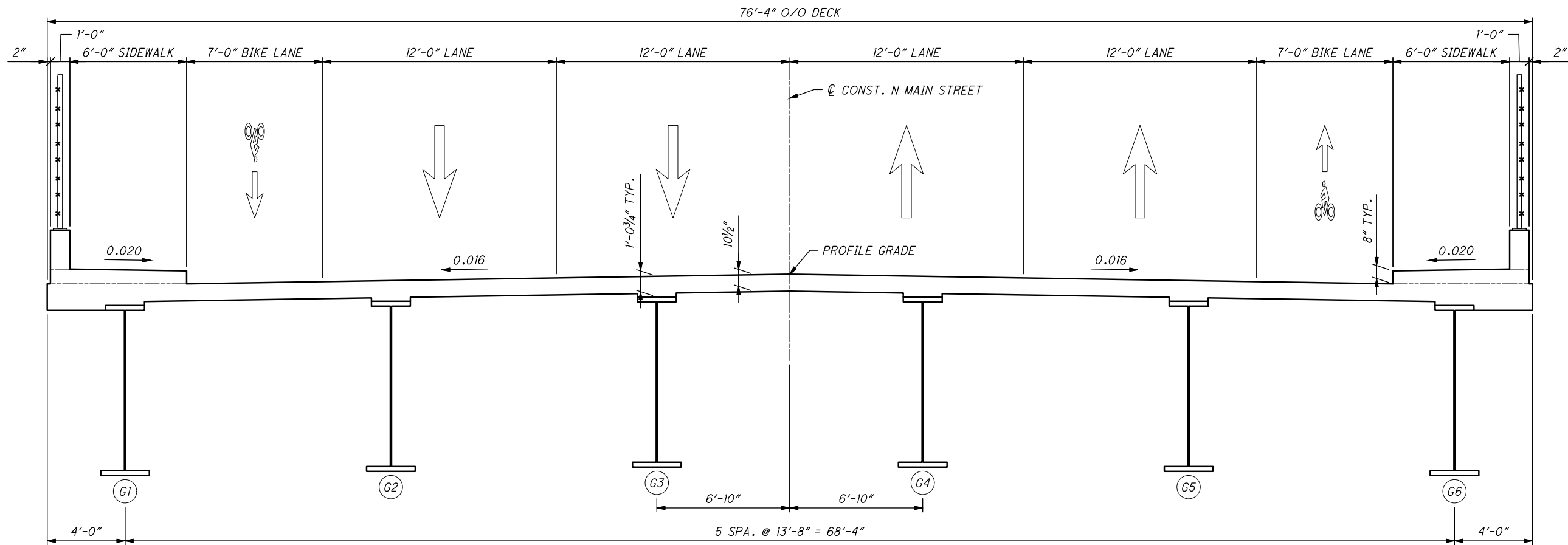






**EXISTING TRANSVERSE SECTION**

CONCRETE DECK PORTION (SPANS 1 &amp; 3) SHOWN. CONCRETE FILLED STEEL GRID DECK PORTION (SPAN 2) SIMILAR.



ASTM A588 HYBRID WELDED STEEL PLATE GIRDERS (GIRDER SIZES VARY PER ALTERNATIVE)

**PROPOSED TRANSVERSE SECTION****LEGEND:**

G# GIRDER NUMBER

**NOTES:**

- CROSSFRAMES AND CATWALKS/INSPECTION HANDRAILS NOT SHOWN.

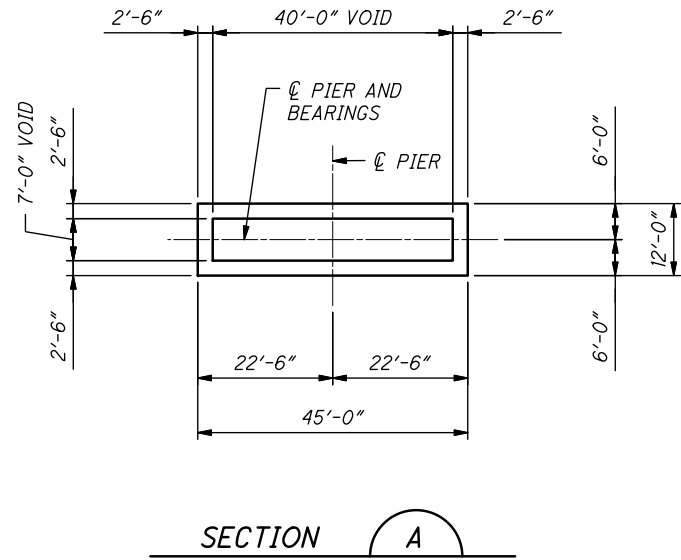
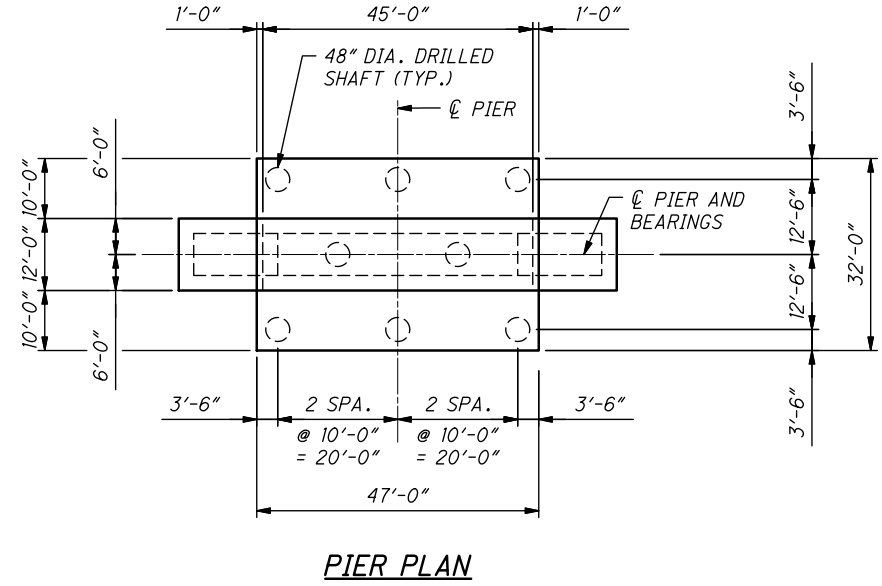
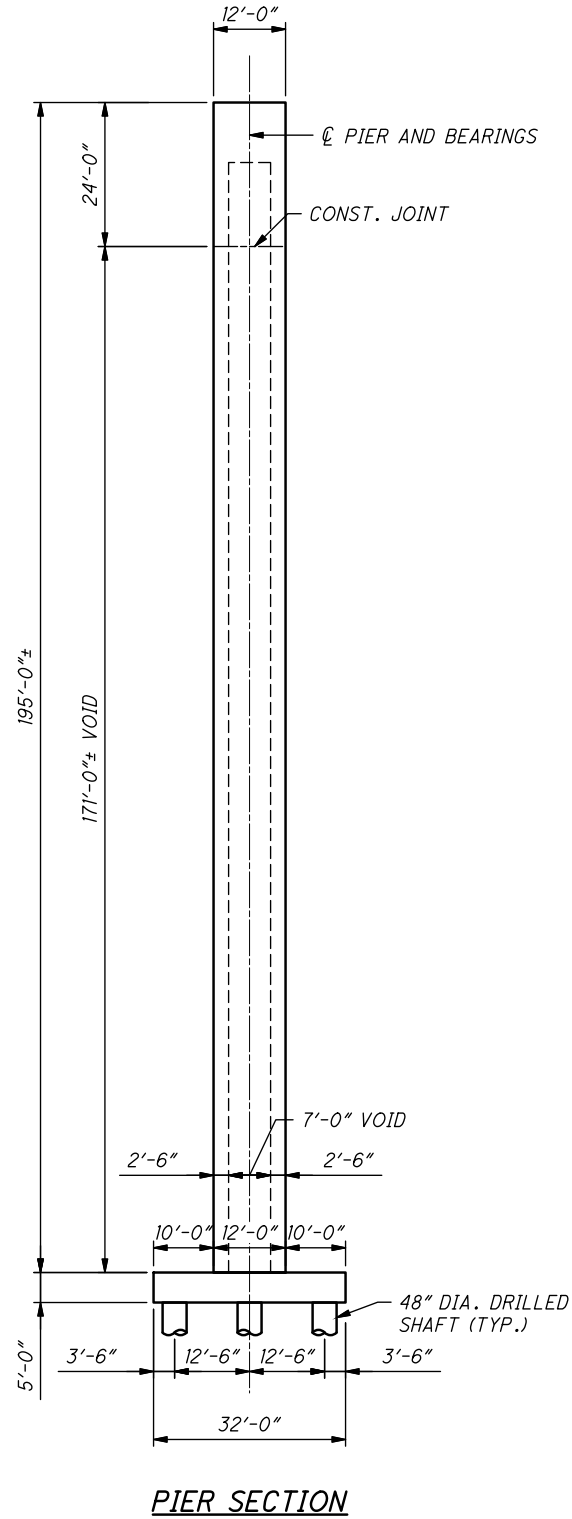
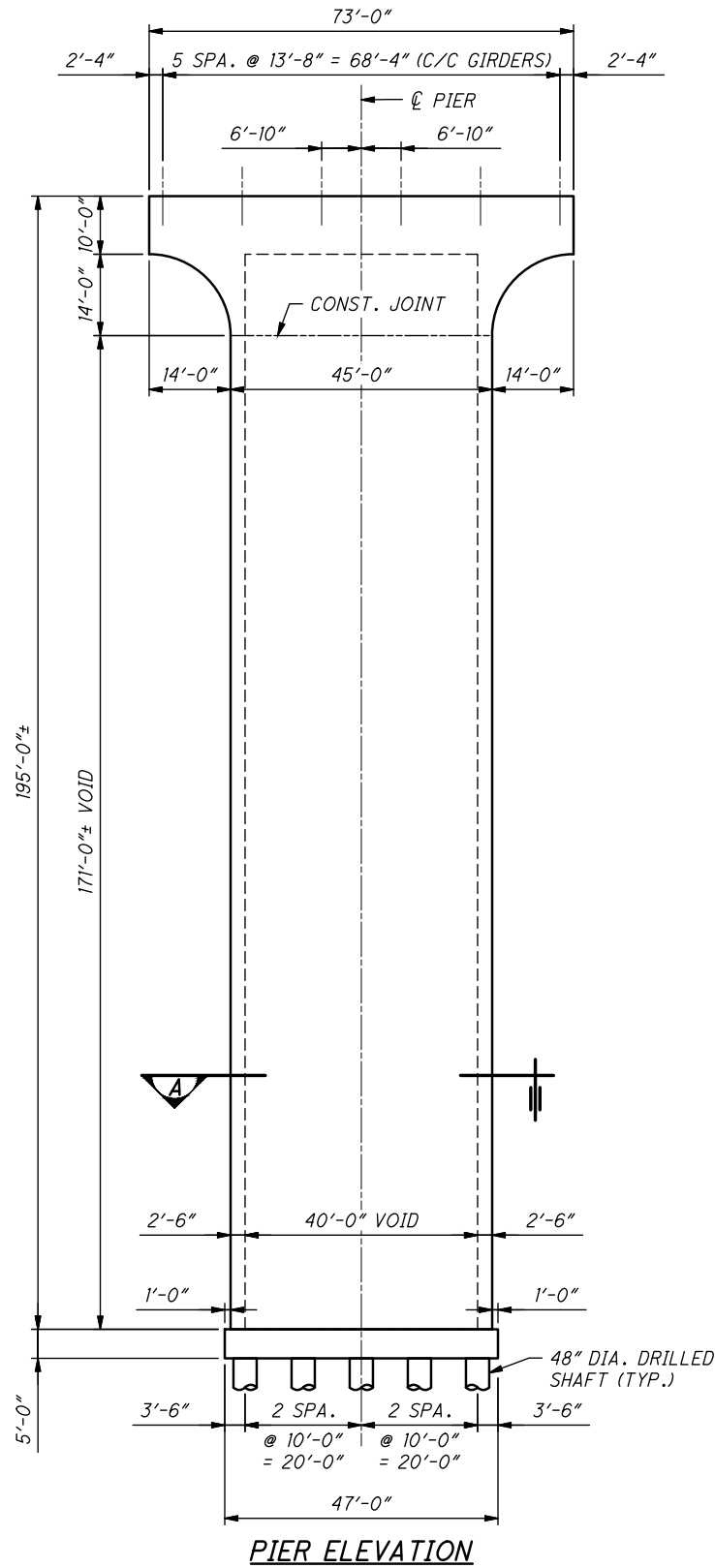
TRANSVERSE SECTION (ALTERNATIVE 2 - STEEL PG)  
BRIDGE NO. SUM-8-09.080  
N MAIN STREET OVER THE CUYAHOGA RIVER

SFN  
7730306 (EX.)

DESIGN AGENCY

DESIGNER  
MOJCHECKER  
TJWREVIEWER  
DGN 4-5-24PROJECT ID  
115383SUBSET  
3 TOTAL  
4SHEET  
A3 TOTAL  
11



**NOTES:**

1. THE PER SHOWN IS APPROXIMATELY SIZED FOR ALTERNATIVE 2B PIERS 1 & 2 AND ALTERNATIVE 2C PIERS 2 & 3. ALTERNATIVE 2A PIER 1 WOULD BE LARGER TO ACCOMMODATE LARGER LOADS. ALTERNATIVE 2C PIER 1 WILL BE SMALLER SINCE IT IS NOT AS TALL.

PIER DETAILS (ALTERNATIVE 2 - STEEL PG)  
BRIDGE NO. SUM-8-09.080  
N MAIN STREET OVER THE CUYAHOGA RIVER

SFN  
7730306 (EX.)

DESIGN AGENCY



DESIGNER  
MOJ

CHECKER  
TJW

REVIEWER

DGN 4-5-24

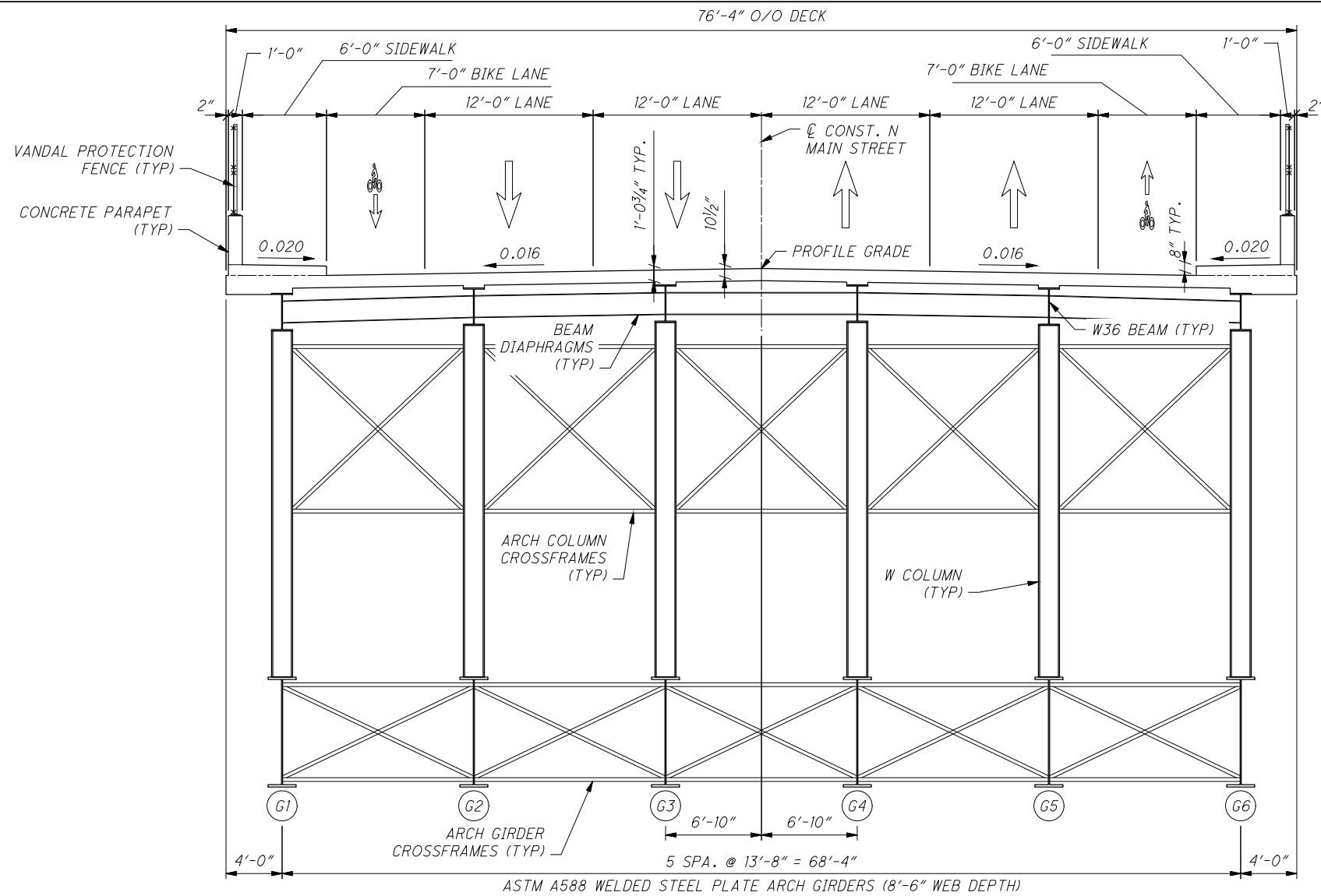
PROJECT ID  
115383

SUBSET TOTAL  
4 4

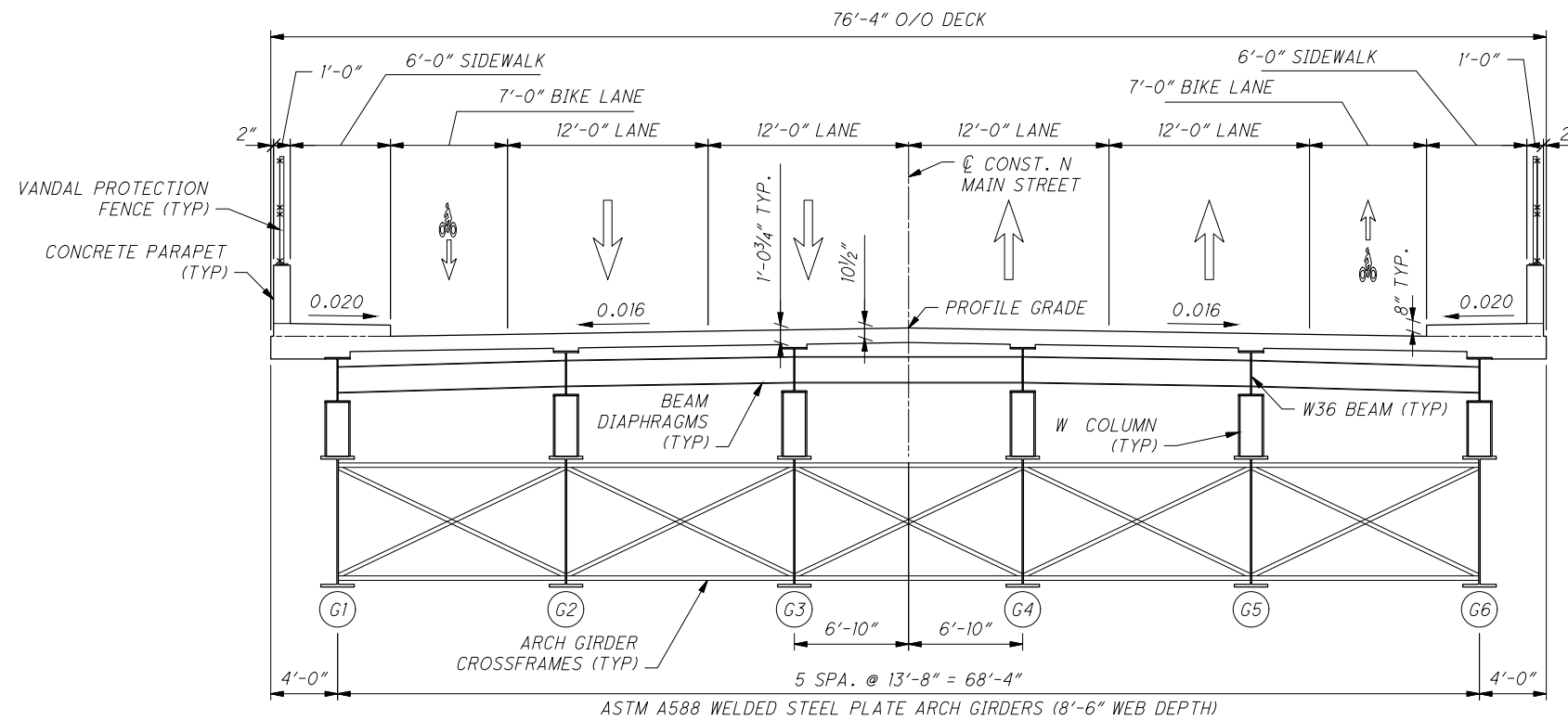
SHEET TOTAL  
A4 11







TRANSVERSE SECTION AT TALL SPANDREL COLUMNS



TRANSVERSE SECTION AT MIDSPAN

## NOTE:

APPROACH SPANS ARE COMPRISED OF  
SIMPLE SPAN BEAM/PLATE GIRDER  
CONFIGURATIONS. TYPICAL SECTIONS NOT  
SHOWN.

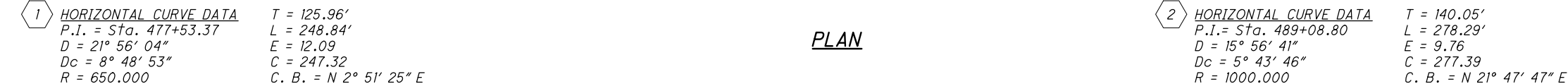
SPANDREL ARCH TYPICAL SECTIONS - ALT 3  
BRIDGE NO. SUM-0008-0908  
N MAIN STREET OVER THE CUYAHOGA RIVER

|               |         |
|---------------|---------|
| SFN           | 7730306 |
| DESIGN AGENCY |         |
| DESIGNER      | CHECKER |
| MSM           | ---     |
| REVIEWER      | ---     |
| PROJECT ID    | 115383  |
| SUBSET        | TOTAL   |
| 2             | 3       |
| SHEET         | TOTAL   |
| A6            | 11      |



SFN  
7730306

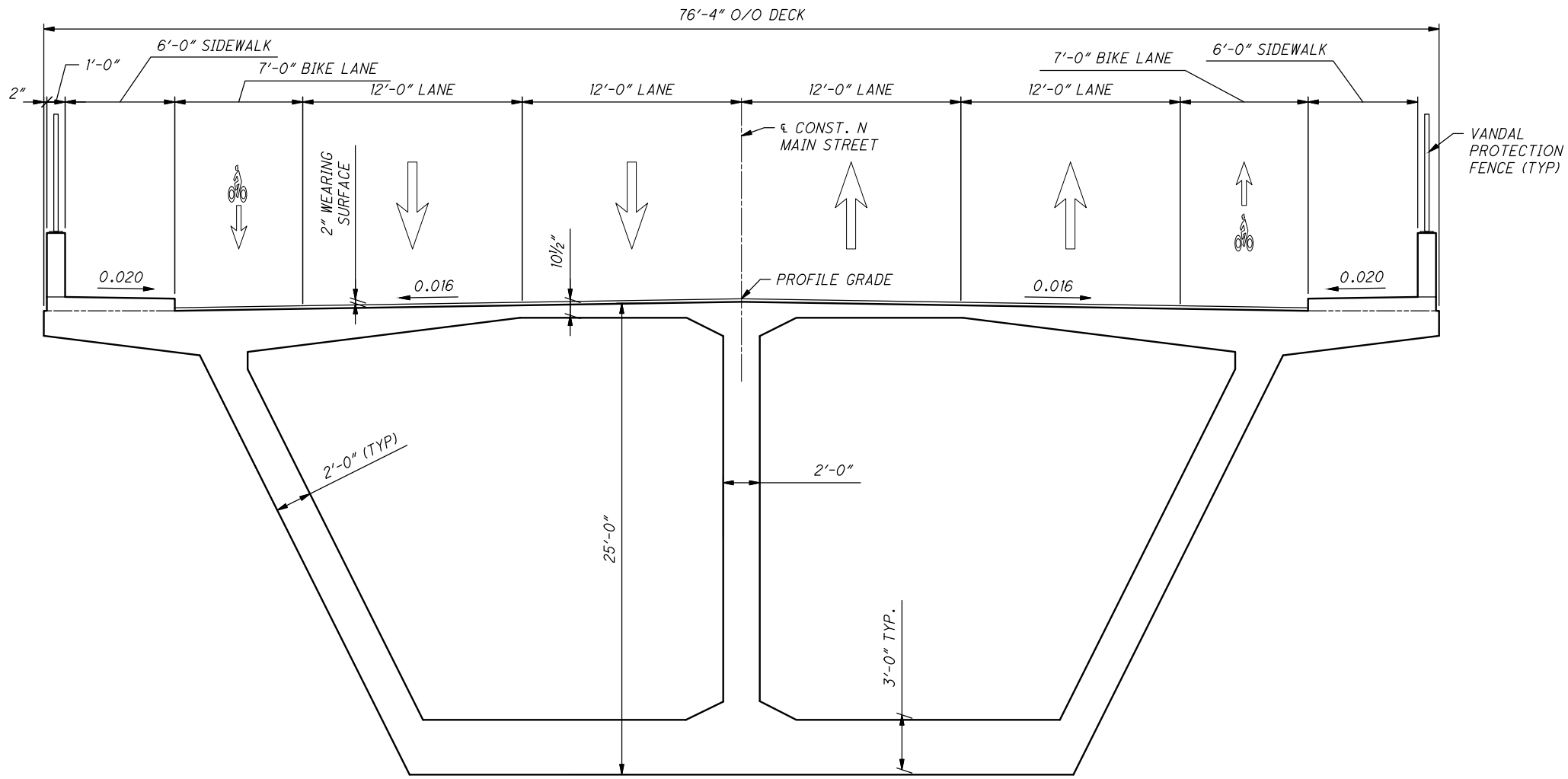
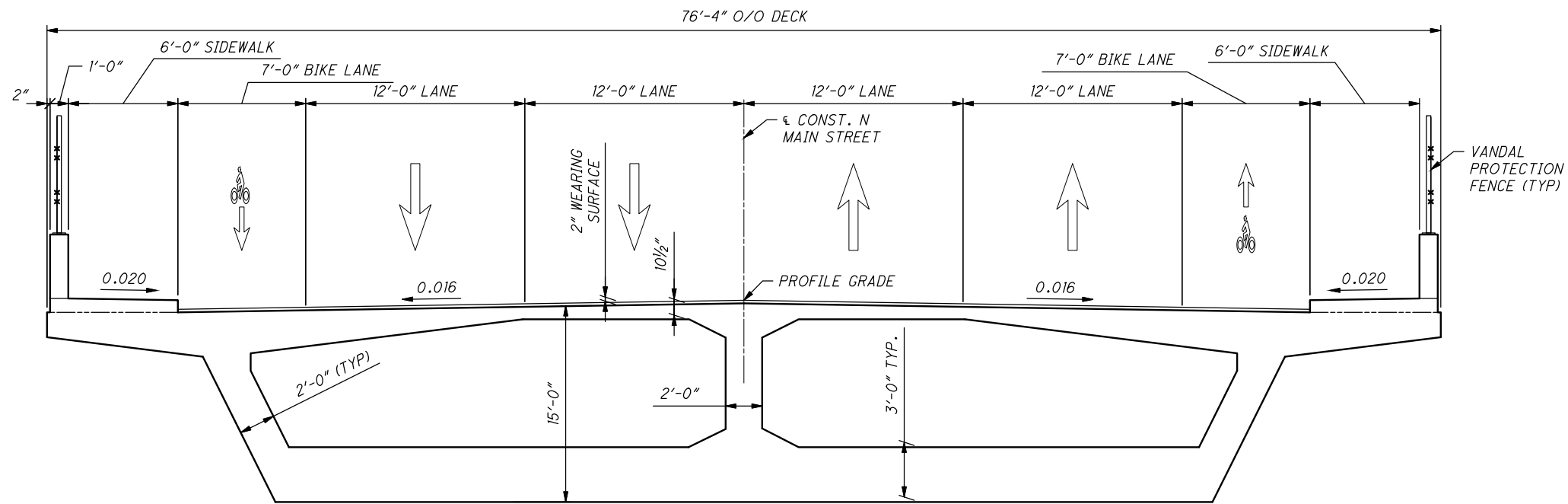
|                             |                       |
|-----------------------------|-----------------------|
| DESIGNER<br><b>MSM</b>      | CHECKER<br><b>---</b> |
| REVIEWER<br><b>---</b>      |                       |
| PROJECT ID<br><b>115383</b> |                       |
| SUBSET<br><b>3</b>          | TOTAL<br><b>3</b>     |
| SHEET<br><b>A7</b>          | TOTAL<br><b>11</b>    |



|  |  |
|--|--|
|  |  |
|--|--|

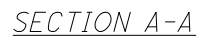
CONCRETE SEGMENTAL BOX PLAN AND PROFILE - ALT 4  
BRIDGE NO. SUM-0008-0908  
N MAIN STREET OVER THE CUYAHOGA RIVER



TRANSVERSE SECTION NEAR PIERTRANSVERSE SECTION NEAR ABUTMENTS

CONCRETE SEGMENTAL BOX TYPICAL SECTIONS - ALT 4  
BRIDGE NO. SUM-0008-0908  
N MAIN STREET OVER THE CUYAHOGA RIVER

|               |         |
|---------------|---------|
| SFN           |         |
| 7730306       |         |
| DESIGN AGENCY |         |
| DESIGNER      | CHECKER |
| MSM           | ---     |
| REVIEWER      |         |
| ---           |         |
| PROJECT ID    |         |
| 115383        |         |
| SUBSET        | TOTAL   |
| 2             | 4       |
| SHEET         | TOTAL   |
| A9            | 11      |



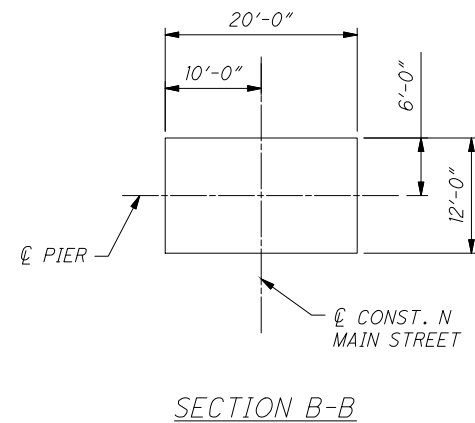
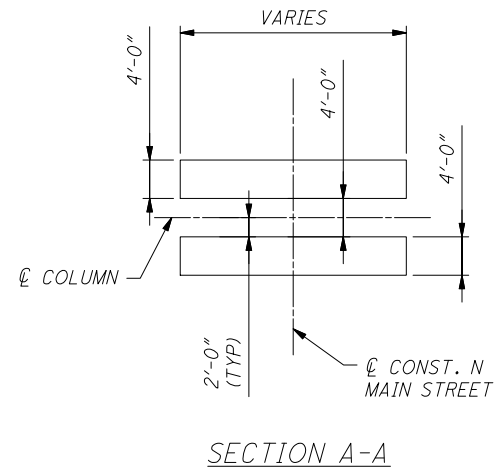
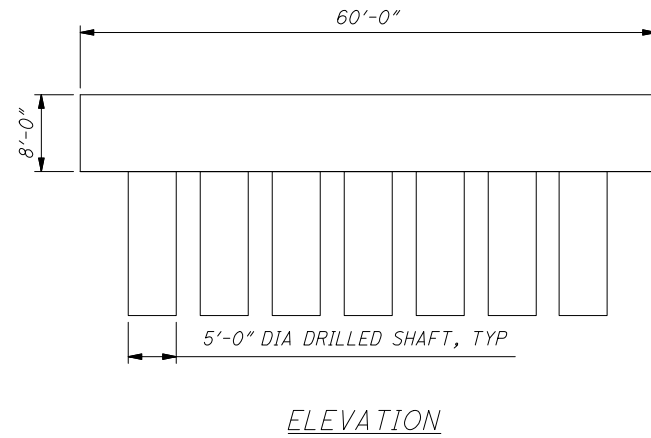
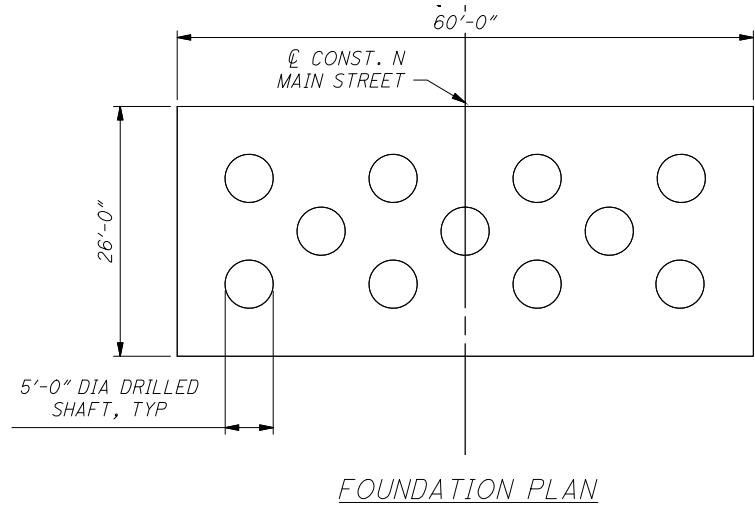
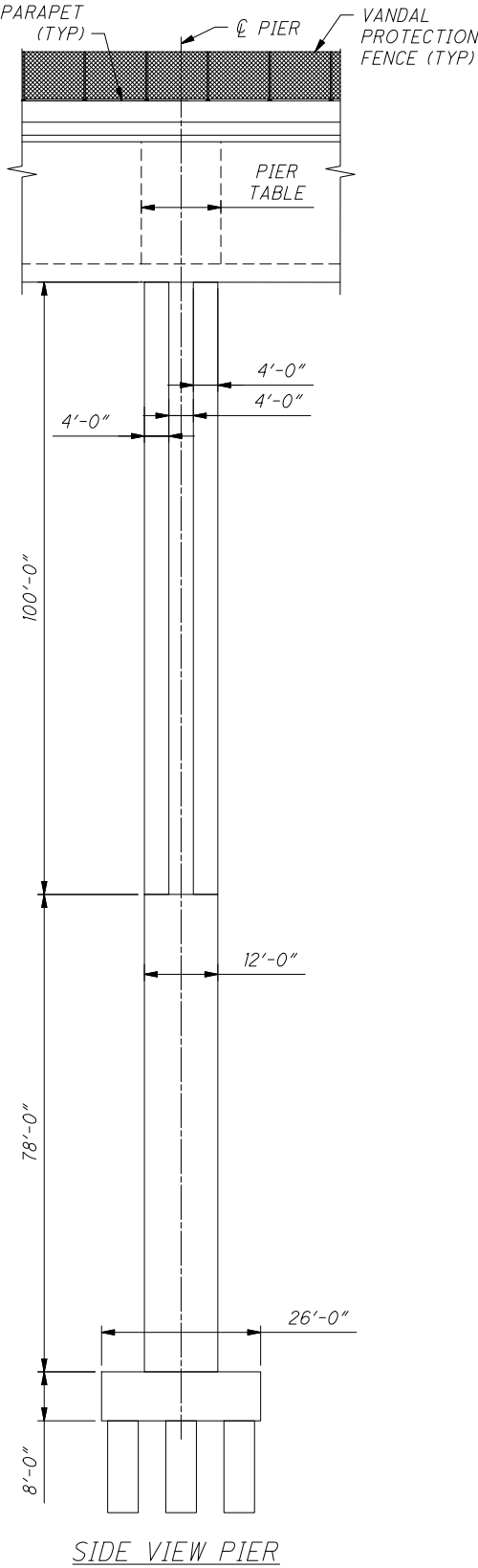
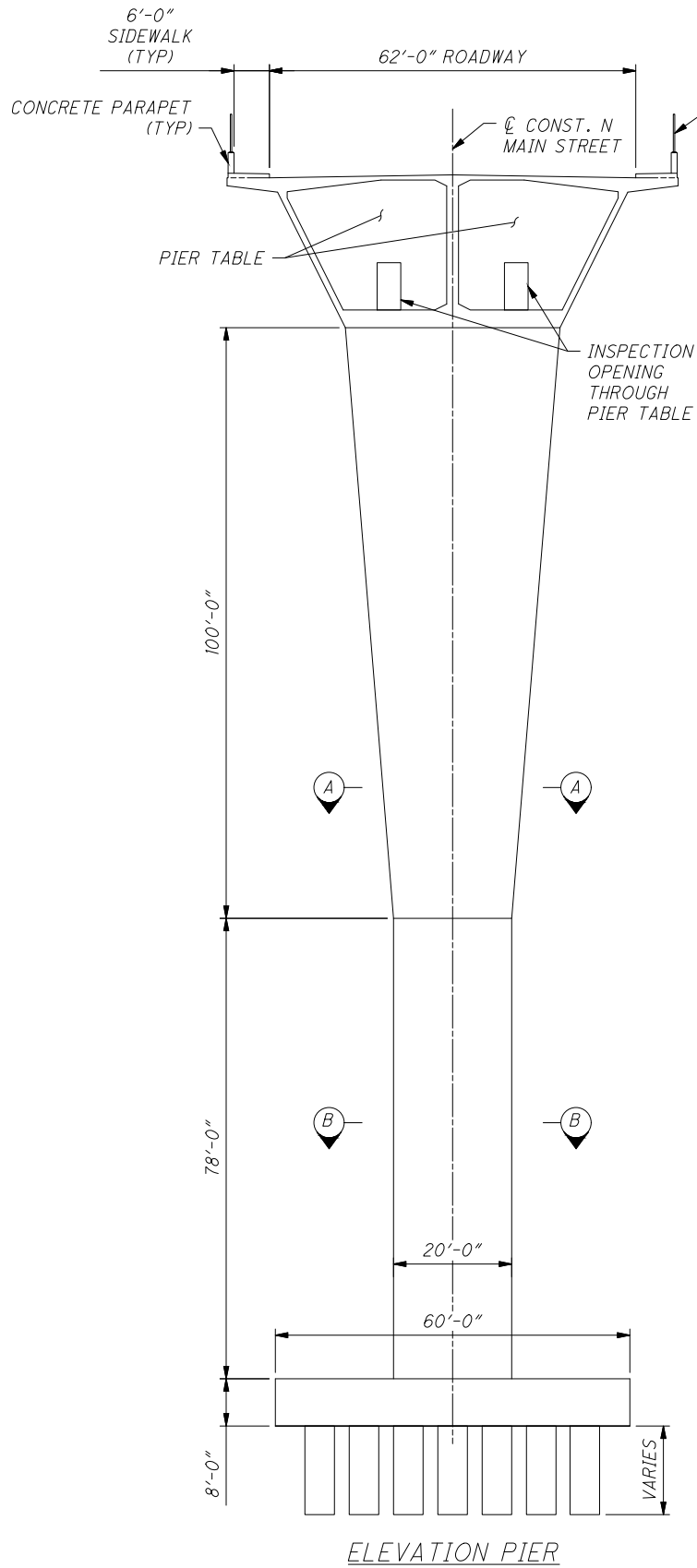
SECTION B-B



ABUTMENT SIDE ELEVATION

ABUTMENT DETAILS - ALTS 3 AND 4  
BRIDGE NO. SUM-0008-0908  
N MAIN STREET OVER THE CUYAHOGA RIVER

|                             |                       |
|-----------------------------|-----------------------|
| SFN<br><b>7730306</b>       |                       |
| DESIGN AGENCY               |                       |
|                             |                       |
| DESIGNER<br><b>MSM</b>      | CHECKER<br><b>---</b> |
| REVIEWER<br><b>---</b>      |                       |
| PROJECT ID<br><b>115383</b> |                       |
| SUBSET<br><b>3</b>          | TOTAL<br><b>4</b>     |
| SHEET<br><b>A10</b>         | TOTAL<br><b>11</b>    |



CONCRETE SEGMENTAL BOX PIER DETAILS - ALT 4  
BRIDGE NO. SUM-0008-0908  
N MAIN STREET OVER THE CUYAHOGA RIVER

|               |         |
|---------------|---------|
| SFN           |         |
| 7730306       |         |
| DESIGN AGENCY |         |
| DESIGNER      | CHECKER |
| MSM           | ---     |
| REVIEWER      |         |
| ---           |         |
| PROJECT ID    |         |
| 115383        |         |
| SUBSET        | TOTAL   |
| 4             | 4       |
| SHEET         | TOTAL   |
| A11           | 11      |