NDNR Memo

February 24, 2016

To: Nebraska Department of Natural Resources
Survey Section Files

From: James R. Williams, P.E.
Engineer IV

Subject: **Summary of Data as of February 16, 2016**
West Fork Big Blue Survey Project
York, York County, Nebraska

The Department survey crew has substantially completed surveying the proposed cross sections and structures on Beaver Creek and Tributary A in York, Nebraska. These locations were identified by the Department Floodplain Section for the purpose of a flood risk mapping study. The survey was completed during early 2016 using state plane feet coordinates referenced to NAD83 and NAVD88. A combination of Trimble real-time survey and total station survey was used. In addition, sketches and photographs of bridges and channels were also collected.

For more information contact:

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402-471-1026

ATTACHMENT 1

BRIDGE MEASUREMENTS AND SKETCHES

Beaver Creek
Tributary A
York Ditch
Tributary E
Tributary B
Tributary C

YORK PROJECT
TUE 10-NOV-15

Bridge Checklist

Street Name COUNTY RD "O"

XS FID 402.3

BRIDGE BUILT 1924
CONCRETE WINGWALLS
CONCRETE ABUTMENTS

☐ Bridge Deck Width 20.5 OUTSIDE TO OUTSIDE / 17.5 INSIDE TO INSIDE

☐ Bridge Length (Abutment to Abutment) 80 FT

☐ Flow Width (Effective Opening) 15 FT.

☐ Railing

Height (From ground to top of railing) 0.6' CONC CURB / 3.0' CONC RAIL / ~~3.6'~~

Length 80 FT. Material OPEN CONCRETE

☐ Low Steel from Bridge Deck (if accessible) 1.5' STEEL STRINGER / 0.5 CONC DECK / ~~2.0'~~

☐ Pier Size**

13 UPRIGHTS

Width 3.3' WIDE SOLID CONCRETE – FLAT FRONT

Number of Equal Width Piers 1

Distance between Piers

Photos (include photo ID number)

☐ Upstream side of Bridge 225

☐ Downstream side of Bridge 226

☐ Channel Upstream of the Bridge 223

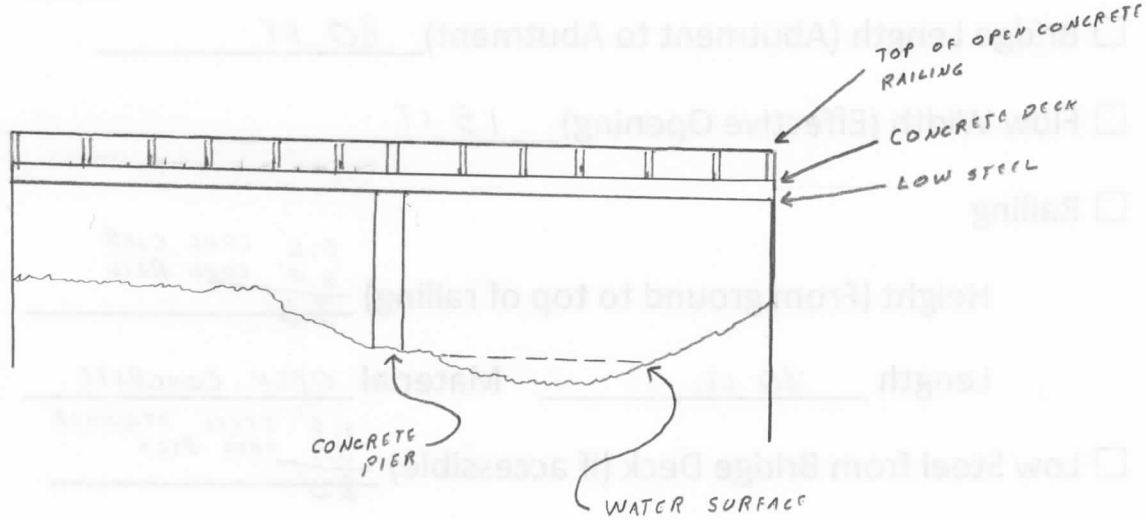
☐ Channel Downstream of the Bridge 224

☐ Along road facing left 222

☐ Along road facing right 221

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


TOP OF OPEN CONCRETE RAILING
CONCRETE DECK
LOW STEEL
CONCRETE PIER
WATER SURFACE

YORK PROJECT
TUE 10-NOV-15

Bridge Checklist

Street Name COUNTY RD "N"

XS FID 412.3

☐ Bridge Deck Width 32.0 OUTSIDE TO OUTSIDE
30.0 INSIDE TO INSIDE

☐ Bridge Length (Abutment to Abutment) 82' END TO END
80.0

☐ Flow Width (Effective Opening) 30.5 FT.

☐ Railing STEEL WINGWALLS
STEEL ABUTMENTS

Height (From ground to top of railing) 2.7 FT.

Length 128 FT. Material STEEL GUARD RAIL

☐ Low Steel from Bridge Deck (if accessible) 2.6 STEEL STRINGER
0.7 CONCRETE DECK
~~3.3~~

☐ Pier Size** UPRIGHTS ARE 6.2' APART

Width NONE

Number of Equal Width Piers

Distance between Piers

Photos (include photo ID number)

☐ Upstream side of Bridge 231

☐ Downstream side of Bridge 232

☐ Channel Upstream of the Bridge 229

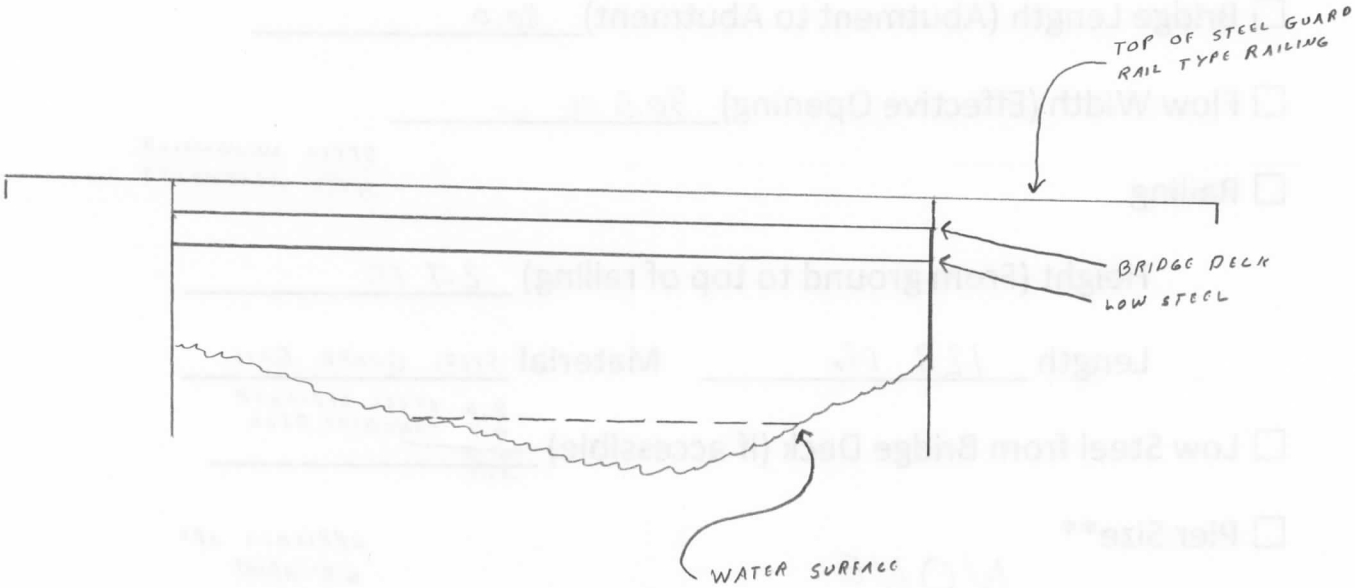
☐ Channel Downstream of the Bridge 230

☐ Along road facing left 228

☐ Along road facing right 227

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


TOP OF STEEL GUARD RAIL TYPE RAILING
BRIDGE DECK
LOW STEEL
WATER SURFACE

YORK PROJECT
TUE 10-NOV-15

Bridge Checklist

Street Name COUNTY RD "M"

XS FID 428.3

☐ Bridge Deck Width 26.6

CONCRETE WINGWALLS
CONCRETE ABUTMENTS

☐ Bridge Length (Abutment to Abutment) 77.3 (80.5 END TO END)

☐ Flow Width (Effective Opening) 25.5

☐ Railing

2.2' GUARD RAIL RAILING
4.0' OPEN STEEL RAILING ON UPSTREAM SIDE

Height (From ~~ground~~ DECK to top of railing) _____

Length 77.3' Material _____

☐ Low Steel from Bridge Deck (if accessible) ~~3.5'~~ 0.5 CONC DECK 3.0 STEEL STRINGER

☐ Pier Size**

Width NONE

Number of Equal Width Piers _____

Distance between Piers _____

Photos (include photo ID number)

☐ Upstream side of Bridge 237

☐ Downstream side of Bridge 238

☐ Channel Upstream of the Bridge 235

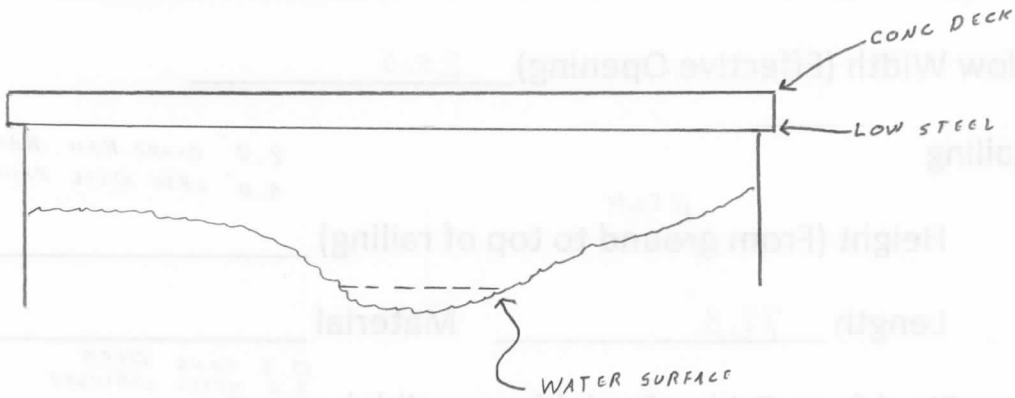
☐ Channel Downstream of the Bridge 236

☐ Along road facing left 234

☐ Along road facing right 233

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


CONC DECK
LOW STEEL
WATER SURFACE

YORK PROJECT
TUE 10-NOV-15

Bridge Checklist

Street Name E NOBES RD

XS FID 432.3

☐ Bridge Deck Width 12.2 UPSTRM WALKWAY
30.0 DRIVING LANES
9.1 DOWNSTRM WALKWAY
51.3

CONCRETE WINGWALLS
CONCRETE ABUTMENTS
1.4' CONC DECK

☐ Bridge Length (Abutment to Abutment) 161 FT. END TO END
117.7 FT.

51.3 TOTAL
30.0 INSIDE

☐ Flow Width (Effective Opening) 19.0'

☐ Railing 2.5' CONC WALL 1.2' WIDE
2.1 OPEN STEEL RAILING ABOVE CURB
5.0' CHAIN LINK FENCE ON OUTSIDES OF BIKE PATH

9.1 DWNSTRM
12.2 WALKWAY UPSTRM

Height (From ground to top of railing) 5.0 FT

24.4
30.0
54.4

Length 161 FT. Material

☐ Low Steel from Bridge Deck (if accessible)

☐ Pier Size**

12.2
9.1
30.0
51.3

Width 2.0' WIDE SOLID CONCRETE - POINTED - STEEL FACED

Number of Equal Width Piers 2

Distance between Piers 48.0'

Photos (include photo ID number)

☐ Upstream side of Bridge 243

☐ Downstream side of Bridge 244

☐ Channel Upstream of the Bridge 241

☐ Channel Downstream of the Bridge 242

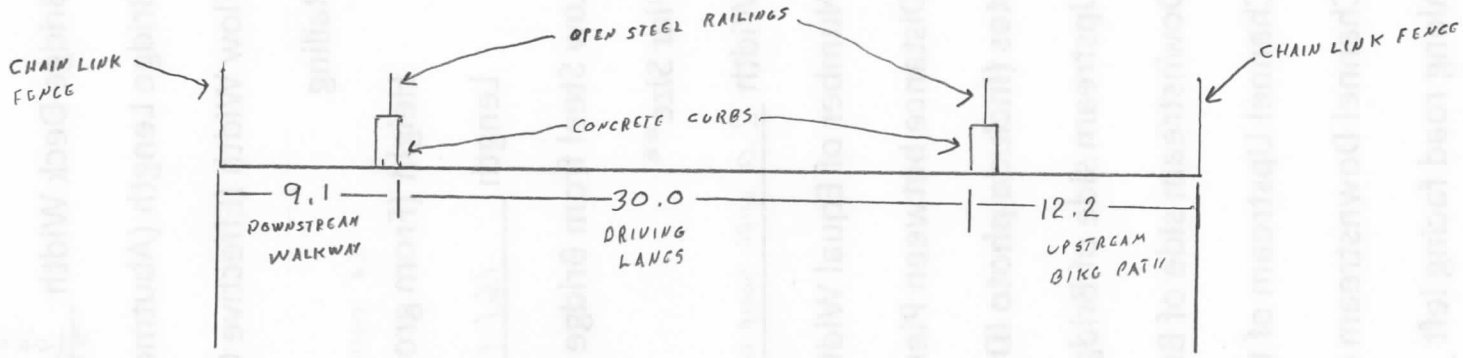
☐ Along road facing left 240

☐ Along road facing right 239

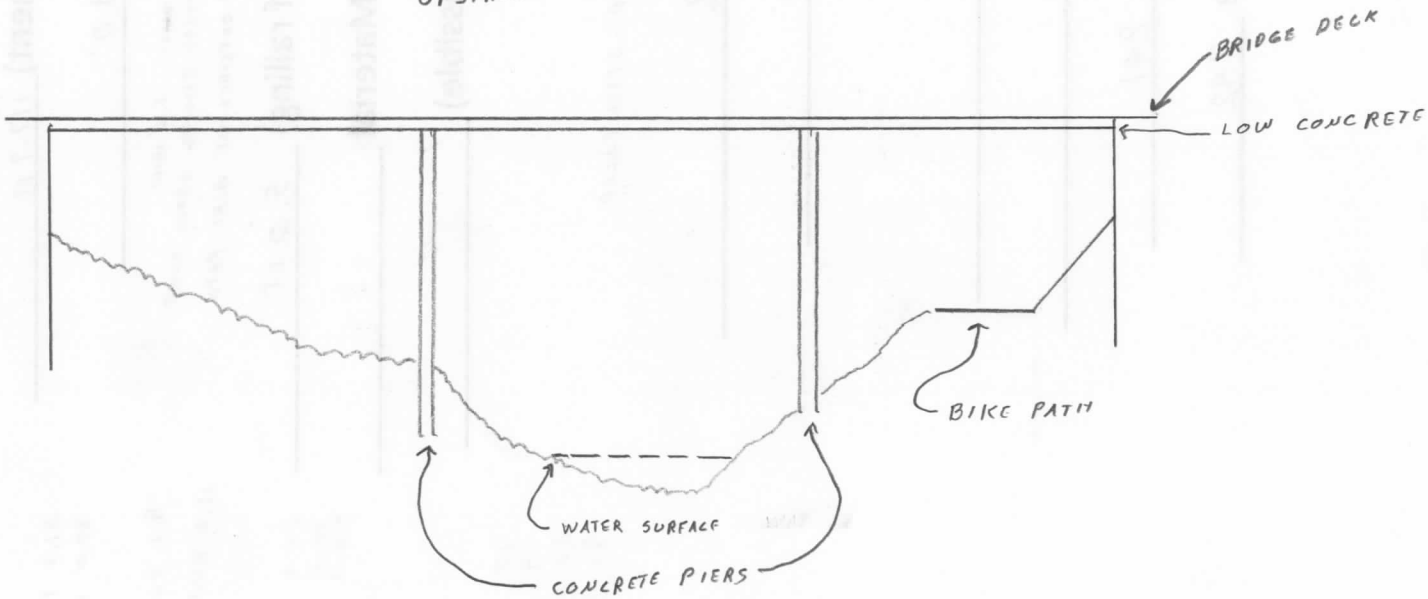
*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths

LEFT END VIEW



UPSTREAM SIDE VIEW



YORK PROJECT
TUE 10-NOV-15

Bridge Checklist

Street Name BIKE PATH BRIDGE

XS FID 436.3

☐ Bridge Deck Width 13.7'

☐ Bridge Length (Abutment to Abutment) 30.5 (34.5 END TO END)

☐ Flow Width (Effective Opening) 26.5

WOOD WINGWALLS ON LT END
NO WINGWALLS ON RT END
CONCRETE ABUTMENTS
0.8' CONCRETE DECK

☐ Railing

Height (From ground to top of railing) ~~3.7'~~ 0.7' CONC CURB + 3.0 OPEN STEEL RAILING

Length 30.5' Material OPEN STEEL PIPE

☐ Low Steel from Bridge Deck (if accessible) 0.8' CONCRETE DECK

☐ Pier Size** PILINGS

Width 1 ROW OF 2 1.0' ROUND IRON PIPE

Number of Equal Width Piers 1

Distance between Piers

Photos (include photo ID number)

☐ Upstream side of Bridge 249

☐ Downstream side of Bridge 250

☐ Channel Upstream of the Bridge 247

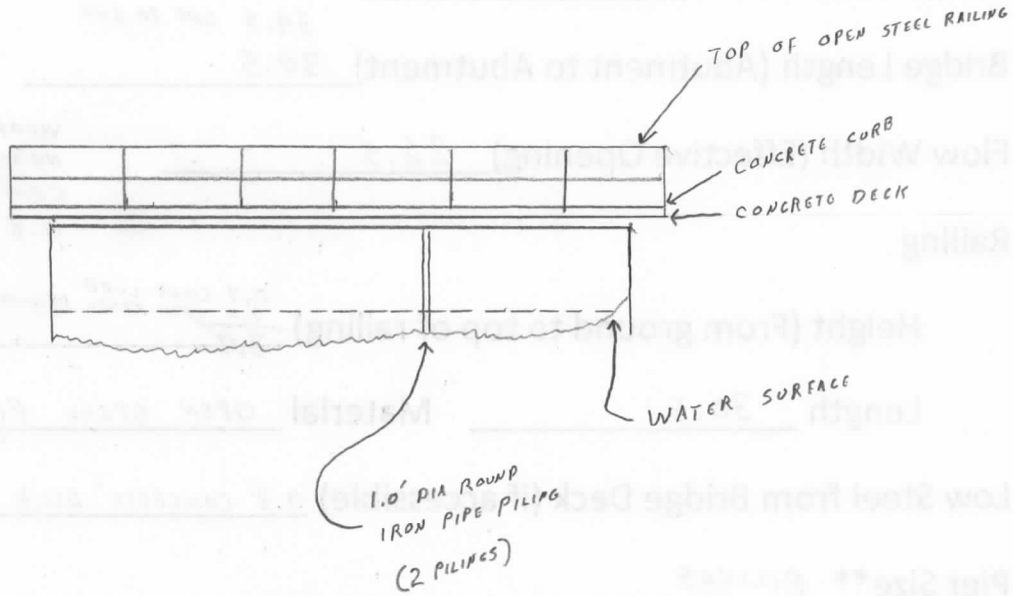
☐ Channel Downstream of the Bridge 248

☐ Along road facing left 246

☐ Along road facing right 245

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


TOP OF OPEN STEEL RAILING
CONCRETE CURB
CONCRETE DECK
WATER SURFACE
1.0' DIA ROUND
IRON PIPE PILING
(2 PILINGS)

YORK PROJECT
TUE 10-NOV-15

Bridge Checklist

Street Name S LINCOLN AVE. / U.S. HWY 81

XS FID 440.3

8.0 UPSTRM SIDEWALK
1.2 CONC CURB
66.4 DRIVING LANES
1.2 CONC CURB
7.0 DNSTRM SIDEWALK
1.2 CONC RAIL

NO WINGWALLS
STEEL ABUTMENTS

☐ Bridge Deck Width 85.0' TOTAL WIDTH

☐ Bridge Length (Abutment to Abutment) 126.5 167' END TO END

☐ Flow Width (Effective Opening) 21.0'

9.3' UPSTREAM SIDEWALK
1.7 CONC CURB - DRIVING LANES
9.3' DOWNSTREAM SIDEWALK
2.5' HIGH CURB ON DWNSTRM SIDE
8.4' CHAIN LINK FENCE ON TOP OF DOWNSTREAM CURB

☐ Railing

Height (From ground to top of railing) 8.4'

Length 167' Material CHAIN LINK FENCE

☐ Low Steel from Bridge Deck (if accessible) 1.5' CONC DECK

☐ Pier Size**

1 ROW OF 11
1.0' SQUARE CONC
PILINGS AT ABUTMENTS

Width 2.2' WIDE SOLID CONCRETE / POINTED - STEEL FACED

Number of Equal Width Piers 2

Distance between Piers 50.0'

Photos (include photo ID number)

☐ Upstream side of Bridge 255 (257 PILINGS AT ABUTMENT)

☐ Downstream side of Bridge 252

☐ Channel Upstream of the Bridge 256

☐ Channel Downstream of the Bridge 253

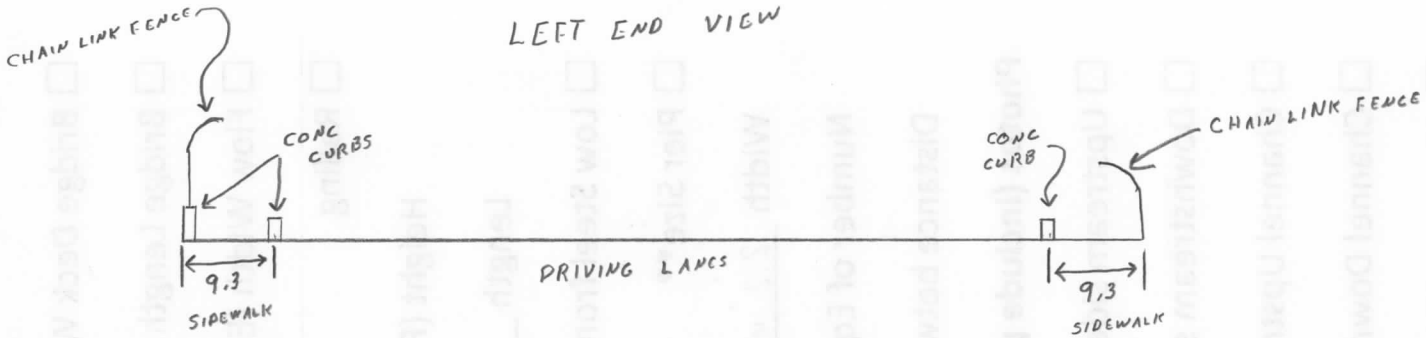
☐ Along road facing left 251

☐ Along road facing right 254

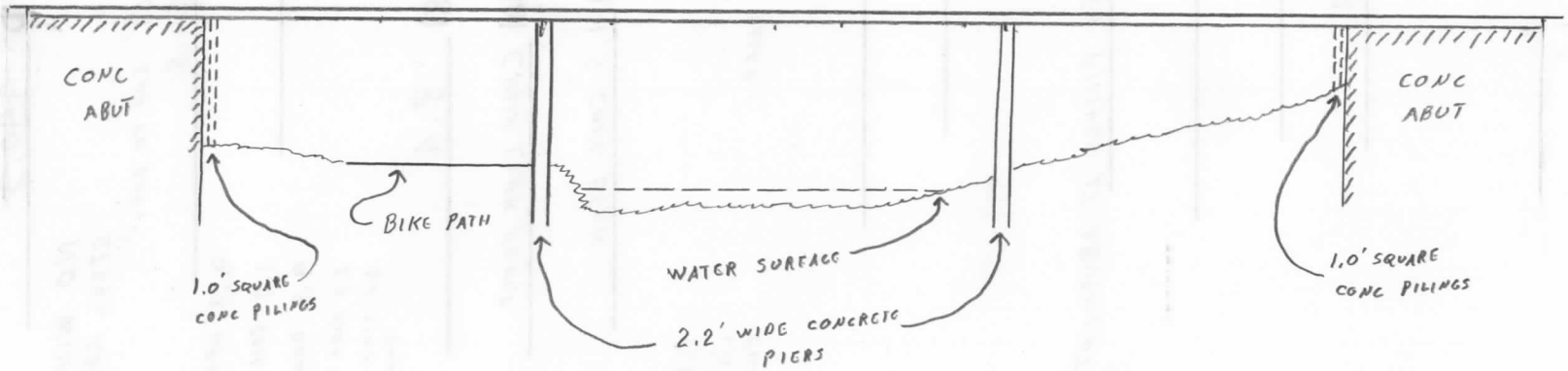
*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths

LEFT END VIEW



UPSTREAM SIDE VIEW



YORK PROJECT
TUE 10-NOV-15

Bridge Checklist

Street Name WALNUT AVE

XS FID 444.3

☐ Bridge Deck Width 41.0 OUTSIDE TO OUTSIDE 32.5 DRIVING LANE

CONCRETE WINGWALLS
CONCRETE ABUTMENTS

☐ Bridge Length (Abutment to Abutment) 164.5 END TO END 160.0

1.2' CONC DECK

☐ Flow Width (Effective Opening) 36'

6.2' SIDEWALK
1.2' CONC RAIL
3.7 OPEN STEEL RAILING ON UPSTREAM SIDE

☐ Railing

Height (From ~~ground~~ DECK to top of railing) 2.5'

Length 164.5 Material OPEN CONCRETE

☐ Low Steel from Bridge Deck (if accessible) 2.5'

☐ Pier Size** 4 SETS OF PILINGS
EACH SET IS 1 ROW OF 9
1.0' SQUARE CONCRETE

Width

Number of Equal Width ~~Piers~~ PILINGS 4

Distance between Piers

5

Photos (include photo ID number)

☐ Upstream side of Bridge 262

☐ Downstream side of Bridge 263

☐ Channel Upstream of the Bridge 260

☐ Channel Downstream of the Bridge 261

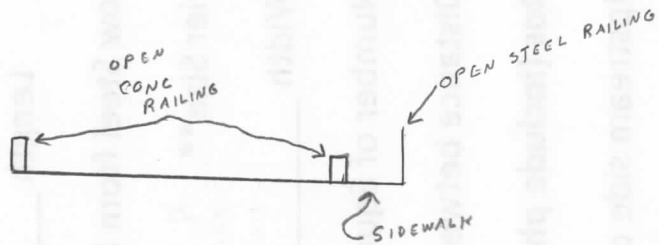
☐ Along road facing left 259

☐ Along road facing right 258

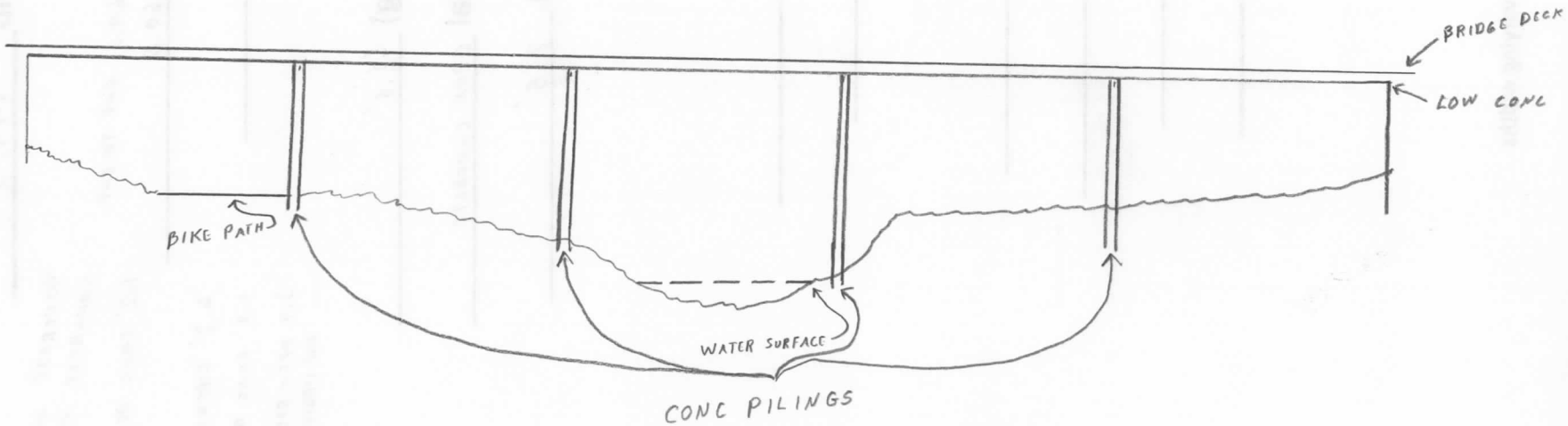
*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths

LEFT END VIEW



UPSTREAM SIDE VIEW



YORK PROJECT
TUE 10-NOV-15

Bridge Checklist

Street Name BIKE PATH BRIDGE IN BEAVER CREEK PARK

XS FID 446.3

☐ Bridge Deck Width 14.0'

NO WINGWALLS
CONCRETE ABUTMENTS

☐ Bridge Length (Abutment to Abutment) 54.0 ~~00~~ END TO END 50.0

☐ Flow Width (Effective Opening) 50.0'

0.6' WOOD CURB

☐ Railing

Height (From ground to top of railing) 3.6' OPEN

Length 54.0 Material OPEN STEEL PIPE

☐ Low Steel from Bridge Deck (if accessible) 0.7' CONCRETE DECK

☐ Pier Size** PILINGS

Width 2 SETS
EACH SET IS 1 ROW OF 2
1.0' DIA ROUND IRON PIPE

Number of Equal Width Piers 2

Distance between Piers

Photos (include photo ID number)

☐ Upstream side of Bridge 269

☐ Downstream side of Bridge 268

☐ Channel Upstream of the Bridge 266

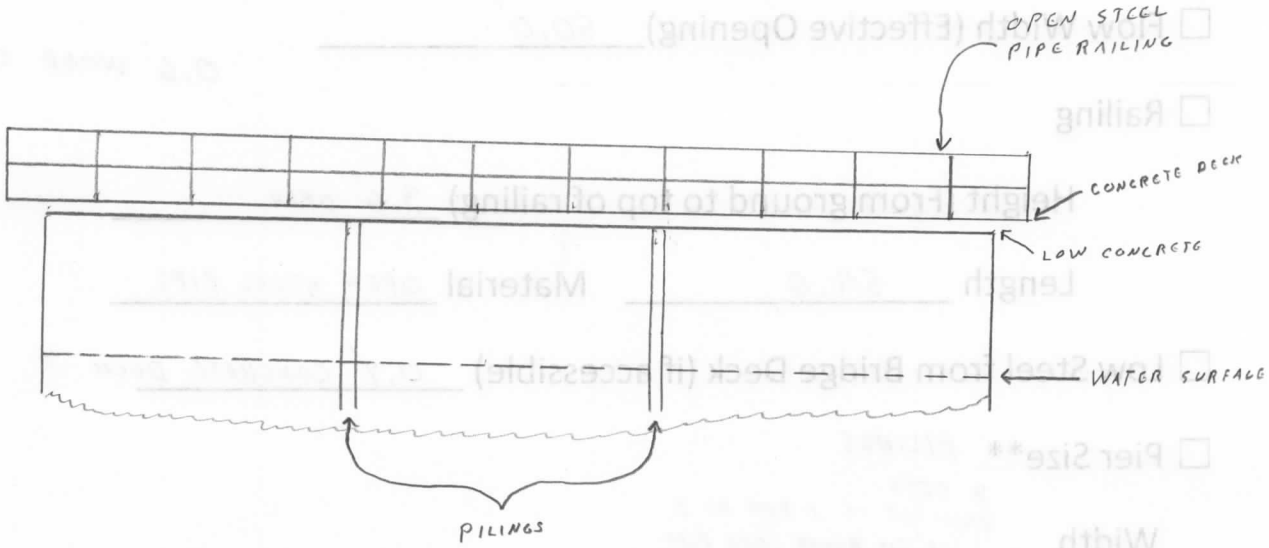
☐ Channel Downstream of the Bridge 267

☐ Along road facing left 265

☐ Along road facing right 264

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


OPEN STEEL PIPE RAILING
CONCRETE DECK
LOW CONCRETE
WATER SURFACE
PILINGS

MON 11-JAN-16

Bridge Checklist

Street Name KINGSLEY AVE

XS FID 448.3

6.2 SIDEWALK

☐ Bridge Deck Width 41 FT. TOTAL WIDTH — 34.8 OUTSIDE, 32.4 INSIDE } DRIVING LANE

☐ Bridge Length (Abutment to Abutment) 117.0'

ONE PIECE CONC DECK 1.5'

☐ Flow Width (Effective Opening) 43' FT.

CONCRETE WINGWALLS
" ABUTMENTS

☐ Railing

Height (From ground to top of railing) 2.5' CONC / 3.7 OPEN STEEL

Length 117 FT. Material OPEN CONCRETE

☐ Low Steel from Bridge Deck (if accessible) 1.5 FT. ONE PIECE DECK

☐ Pier Size**

2 SETS OF PILINGS
EACH SET IS 1 ROW OF 11
1.0' SQUARE CONCRETE

Width

Number of Equal Width Piers

Distance between Piers (LEFT / CENTER / RIGHT) 35 / 47 / 35'

Photos (include photo ID number)

☐ Upstream side of Bridge (LT END / CENTER / RT END) 480 / 481 / 482

☐ Downstream side of Bridge (LT END / CENTER / RT END) 483 / 484 / 485

☐ Channel Upstream of the Bridge 478

☐ Channel Downstream of the Bridge 479

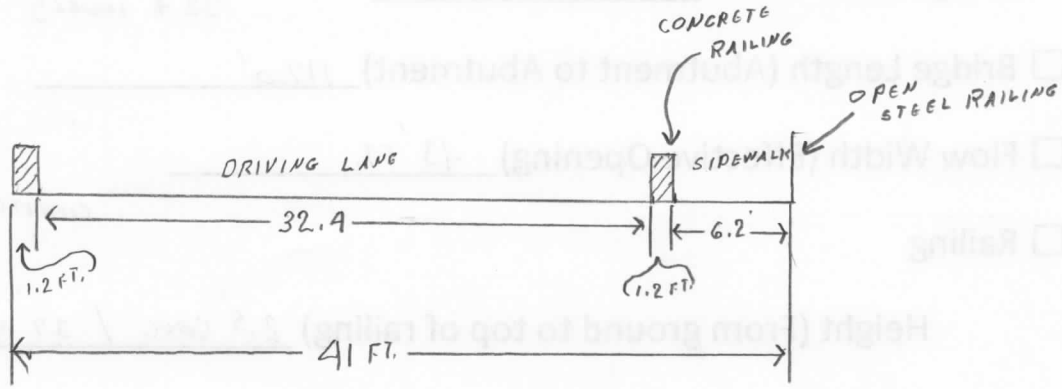
☐ Along road facing left 476

☐ Along road facing right 477

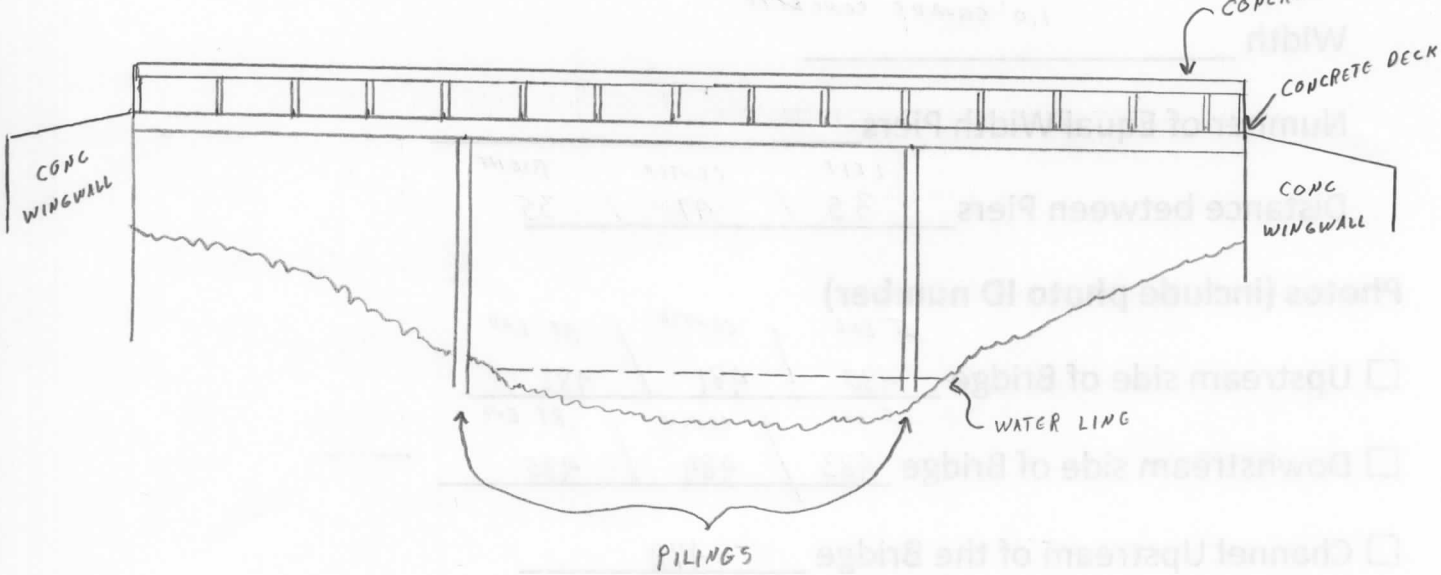
*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths

LEFT END VIEW



UPSTREAM VIEW



SAT 30-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 449

NEW BRIDGE

☐ Bridge Deck Width 8.0 FT

☐ Bridge Length (Abutment to Abutment) 60.0 FT.

CONCRETE WINGWALLS
CONCRETE ABUTMENTS
1 PIECE CONCRETE
STRINGER & DECK

☐ Flow Width (Effective Opening) 35.0 FT.

☐ Railing NONE

Height (From ground to top of railing) _____

Length _____ Material _____

☐ Low ~~Steel~~ CONCRETE from Bridge Deck (if accessible) 3.0 FT

☐ Pier Size**

Width NONE

Number of Equal Width Piers _____

Distance between Piers _____

PHOTOS TAKEN
SAT 30-JAN-16

Photos (include photo ID number)

☐ Upstream side of Bridge 474

☐ Downstream side of Bridge 475

☐ Channel Upstream of the Bridge 472

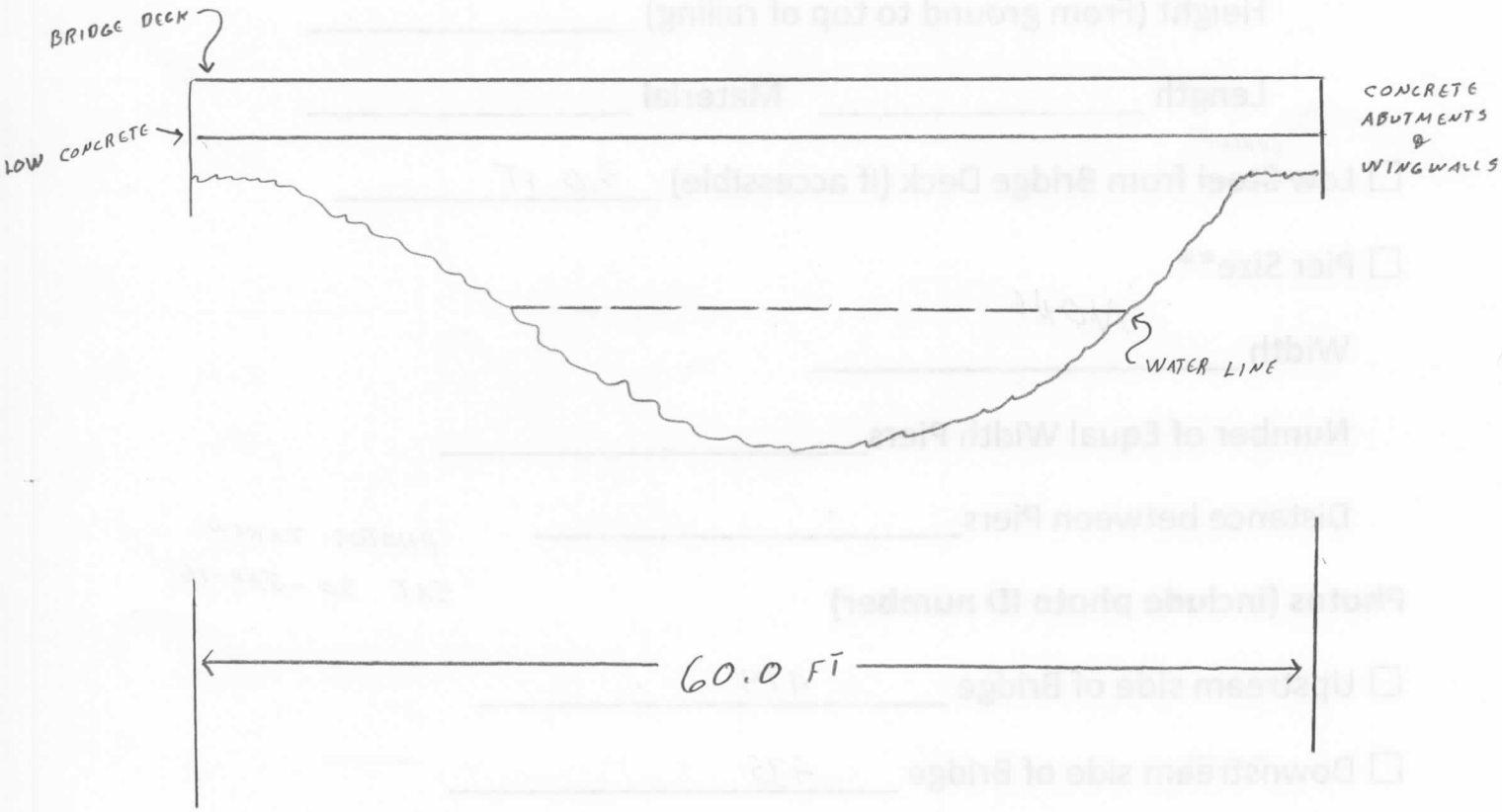
☐ Channel Downstream of the Bridge 473

☐ Along road facing left 471

☐ Along road facing right 470

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


BRIDGE DECK
LOW CONCRETE
CONCRETE ABUTMENTS & WINGWALLS
WATER LINE
60.0 FT

MONDAY 11-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 450.3 TEMPORARY BRIDGE

BRDG 1

☐ Bridge Deck Width 7.2

☐ Bridge Length (Abutment to Abutment) 59.5

☐ Flow Width (Effective Opening) 31'

1 STRINGER - 1.5' WOOD POWER POLE
0.15' WOOD DECK

☐ Railing NONE

Height (From ground to top of railing) _____

Length _____ Material _____

☐ Low Steel from Bridge Deck (if accessible) _____

☐ Pier Size**

Width NONE

Number of Equal Width Piers _____

Distance between Piers _____

Photos (include photo ID number)

PHOTOS TAKEN SAT 30-JAN-16

☐ Upstream side of Bridge LT END 466 / RT END 467

☐ Downstream side of Bridge LT END 468 / RT END 469

☐ Channel Upstream of the Bridge 464

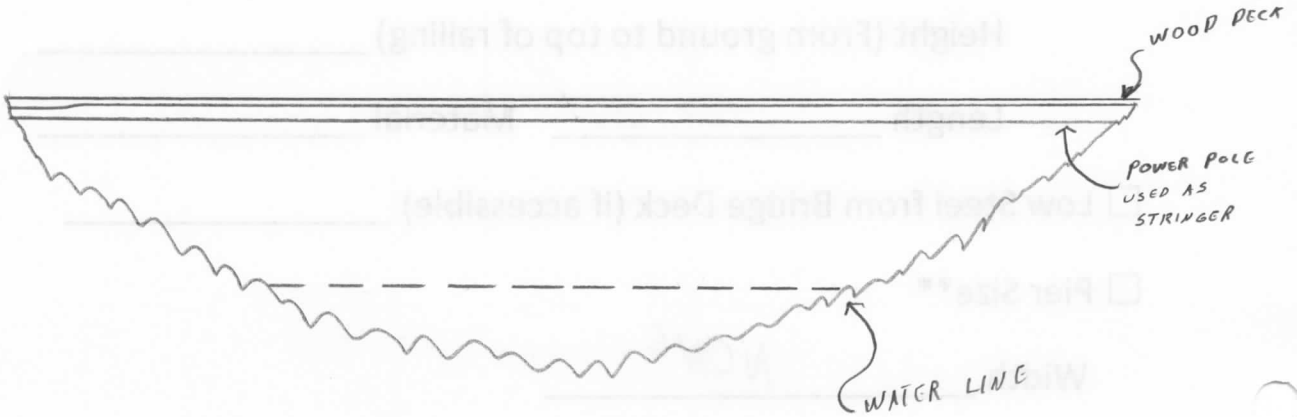
☐ Channel Downstream of the Bridge 465

☐ Along road facing left 463

☐ Along road facing right 462

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


WOOD DECK
POWER POLE USED AS STRINGER
WATER LINE

MON 11-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 452.3

BRDG 2

CONC WINGWALLS
" ABUTMENTS
0.3 " DECK
2.6 CONC STRINGER

☐ Bridge Deck Width 8.0'

☐ Bridge Length (Abutment to Abutment) 58

☐ Flow Width (Effective Opening) 34

☐ Railing

Height (From ground to top of railing) 0.6'

Length 58' Material WOOD

☐ Low Steel from Bridge Deck (if accessible) 2.9 FT

☐ Pier Size**

Width NONE

Number of Equal Width Piers

Distance between Piers

Photos (include photo ID number)

PHOTOS TAKEN SAT 30-JAN-16

☐ Upstream side of Bridge LT END 458 / RT END 459

☐ Downstream side of Bridge LT END 460 / RT END 461

☐ Channel Upstream of the Bridge 456

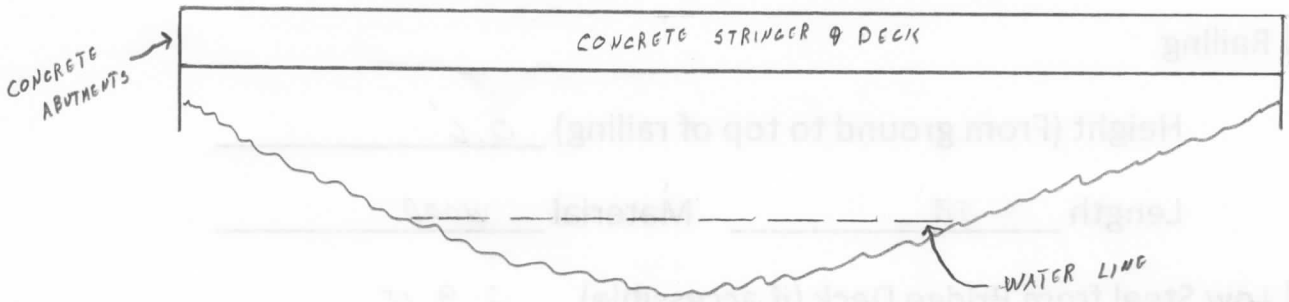
☐ Channel Downstream of the Bridge 457

☐ Along road facing left 455

☐ Along road facing right 454

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


CONCRETE STRINGER & DECK
CONCRETE ABUTMENTS
WATER LINE

MONDAY 11-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 454.3
BRDG 3

☐ Bridge Deck Width 8.0

☐ Bridge Length (Abutment to Abutment) 57.6

CONCRETE WINGWALLS
CONCRETE ABUTMENT
CONCRETE STRINGER
CONCRETE DECK

☐ Flow Width (Effective Opening) 35

☐ Railing

Height (From ~~ground~~ DECK to top of railing) 0.6'

Length 57.6 Material WOOD

☐ Low Steel from Bridge Deck (if accessible) 2.9 FT.

☐ Pier Size**

Width NONE

Number of Equal Width Piers

Distance between Piers

PHOTOS TAKEN
SAT 30-JAN-16

Photos (include photo ID number)

☐ Upstream side of Bridge LT END 450 / RT END 451

☐ Downstream side of Bridge LT END 452 / RT END 453

☐ Channel Upstream of the Bridge 448

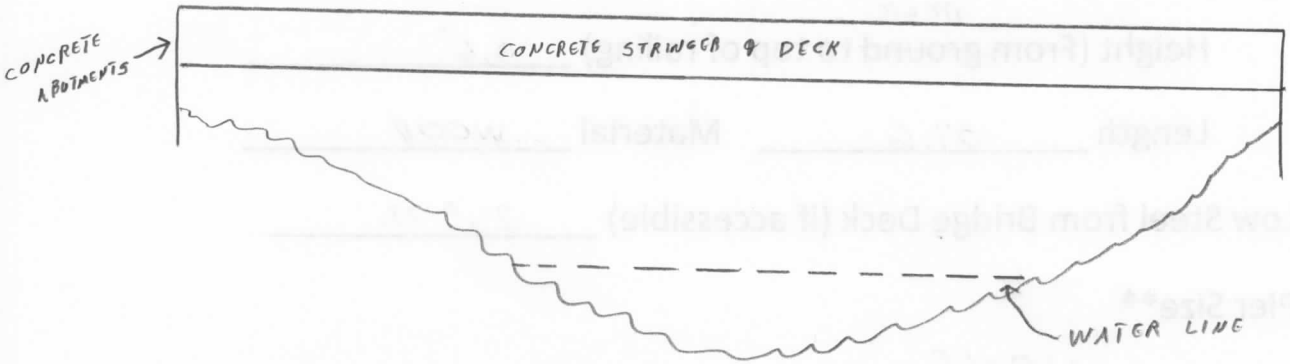
☐ Channel Downstream of the Bridge 449

☐ Along road facing left 447

☐ Along road facing right 446

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


CONCRETE ABUTMENTS
CONCRETE STRINGER & DECK
WATER LINE

MONDAY 11-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 456.3

BRDG 4

☐ Bridge Deck Width 4.0

1.3' WEBBSTEEL STRINGER
0.15 WOOD DECK

☐ Bridge Length (Abutment to Abutment) 45

CONC ABUTMENT
NO WINGWALLS

☐ Flow Width (Effective Opening) 29

☐ Railing

Height (From ground to top of railing) 3.0 FT

Length 45' Material SINGLE STEEL CABLE

☐ Low Steel from Bridge Deck (if accessible) 1.45 FT.

☐ Pier Size**

NONE

Width

Number of Equal Width Piers

Distance between Piers

PHOTOS TAKEN
SAT 30-JAN-16

Photos (include photo ID number)

☐ Upstream side of Bridge LT END 443 / RT END 444

☐ Downstream side of Bridge 445

☐ Channel Upstream of the Bridge 441

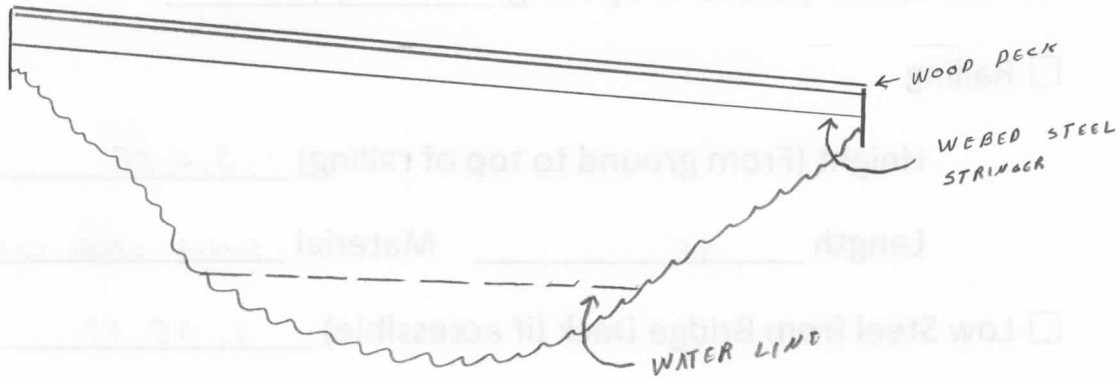
☐ Channel Downstream of the Bridge 442

☐ Along road facing left 440

☐ Along road facing right 439

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


WOOD DECK
WEBED STEEL STRINGER
WATER LINE

MONDAY 11-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 458.3
BRDG 5

☐ Bridge Deck Width 8.0

☐ Bridge Length (Abutment to Abutment) 56.6

☐ Flow Width (Effective Opening) 31

CONCRETE ABUTMENTS
CONCRETE WINGWALLS
CONCRETE STRINGER
CONCRETE DECK

☐ Railing

Height (From ground to top of railing) 0.6'

Length 56.6 Material WOOD

☐ Low Steel from Bridge Deck (if accessible) 2.9 FT

☐ Pier Size**

Width NONE

Number of Equal Width Piers

Distance between Piers

Photos (include photo ID number)

PHOTOS TAKEN
SAT 30-JAN-16

☐ Upstream side of Bridge LT END 435 / RT END 436

☐ Downstream side of Bridge LT END 437 / RT END 438

☐ Channel Upstream of the Bridge 433

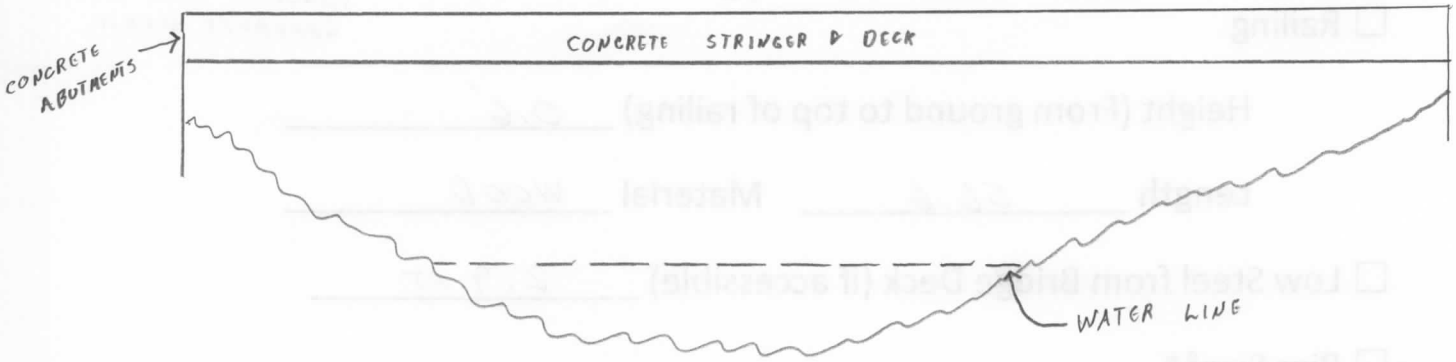
☐ Channel Downstream of the Bridge 434

☐ Along road facing left 432

☐ Along road facing right 431

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


CONCRETE STRINGER & DECK
CONCRETE ABUTMENTS
WATER LINE

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 461
NEW BRIDGE

☐ Bridge Deck Width 8.0 FT

☐ Bridge Length (Abutment to Abutment) 60.0 FT

CONCRETE WINGWALLS
CONCRETE ABUTMENTS
1 PIECE CONCRETE
STRINGER & DECK

☐ Flow Width (Effective Opening) 20.0 FT

☐ Railing NONE

Height (From ground to top of railing) _____

Length _____ Material _____

☐ Low ~~Steel~~ CONCRETE from Bridge Deck (if accessible) 3.0 FT

☐ Pier Size** NONE

Width _____

Number of Equal Width Piers _____

Distance between Piers _____

Photos (include photo ID number)

☐ Upstream side of Bridge 428

☐ Downstream side of Bridge LT END 429 / RT END 430

☐ Channel Upstream of the Bridge 426

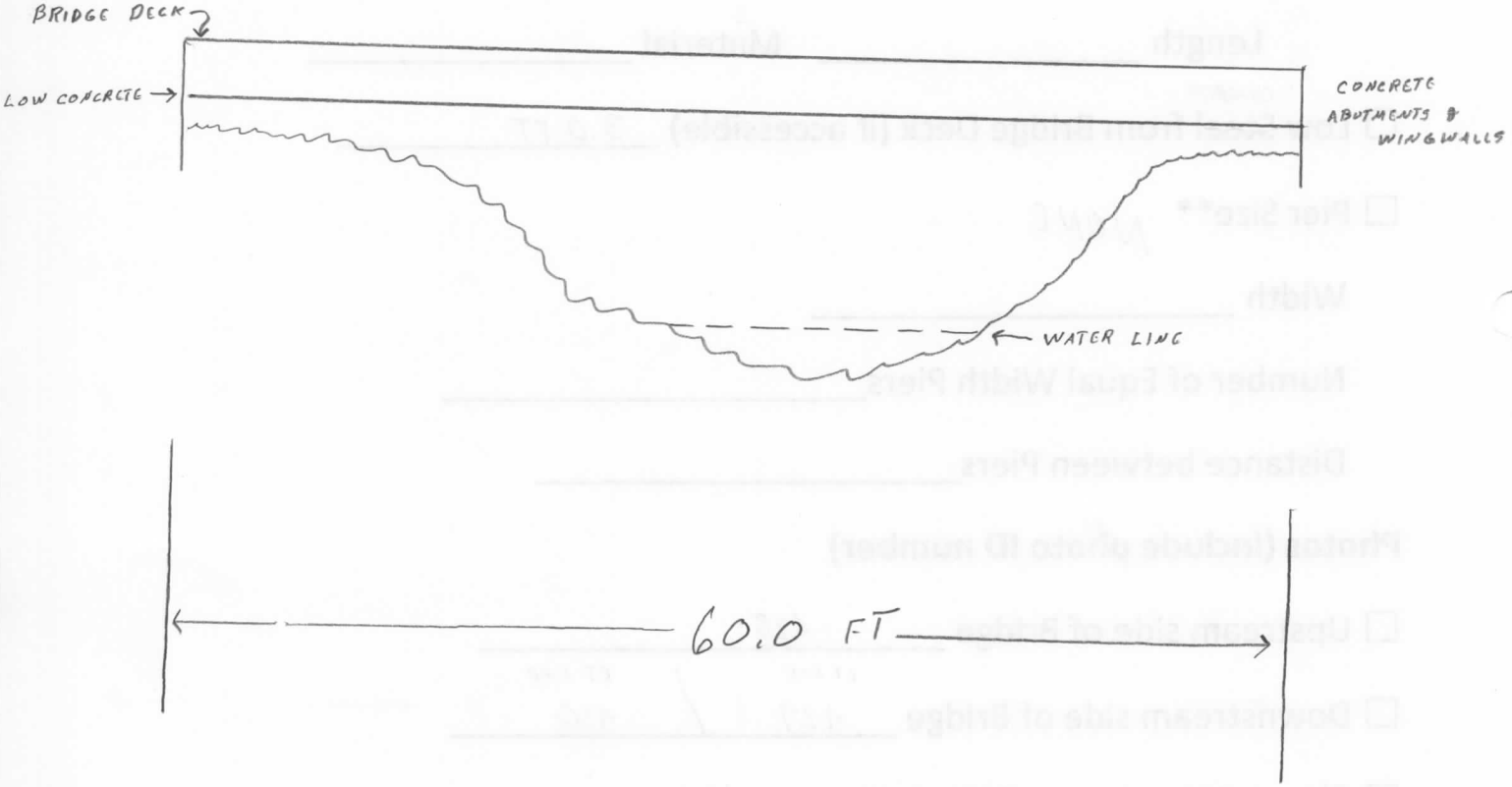
☐ Channel Downstream of the Bridge 427

☐ Along road facing left 425

☐ Along road facing right 424

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


BRIDGE DECK
LOW CONCRETE
CONCRETE ABUTMENTS & WINGWALLS
WATER LINE
60.0 FT

TUESDAY 12-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 462.3

BRDG 6

TEMPORARY BRIDGE

WOOD ABUTMENTS
WOOD WINGWALLS
1.3' STEEL STRINGER
0.15 WOOD DECK
0.45 WOOD RAILING

☐ Bridge Deck Width 7.2'

☐ Bridge Length (Abutment to Abutment) 81.0'

☐ Flow Width (Effective Opening) 26

☐ Railing

Height (From ~~ground~~ DECK to top of railing) 0.45'

Length _____ Material WOOD

☐ Low Steel from Bridge Deck (if accessible) 1.45

☐ Pier Size**

2 SETS OF PILINGS
EACH SET IS 1 ROW OF 2
0.6' DIA ROUND WOOD

Width _____

Number of Equal Width Piers 2 PILINGS

Distance between Piers (LT / CNTR / RT) 15' / 23' / 43'

Photos (include photo ID number)

PHOTOS TAKEN SAT 30-JAN-16

☐ Upstream side of Bridge (LT END / RT END) 420 / 421

☐ Downstream side of Bridge (LT END / RT END) 422 / 423

☐ Channel Upstream of the Bridge 418

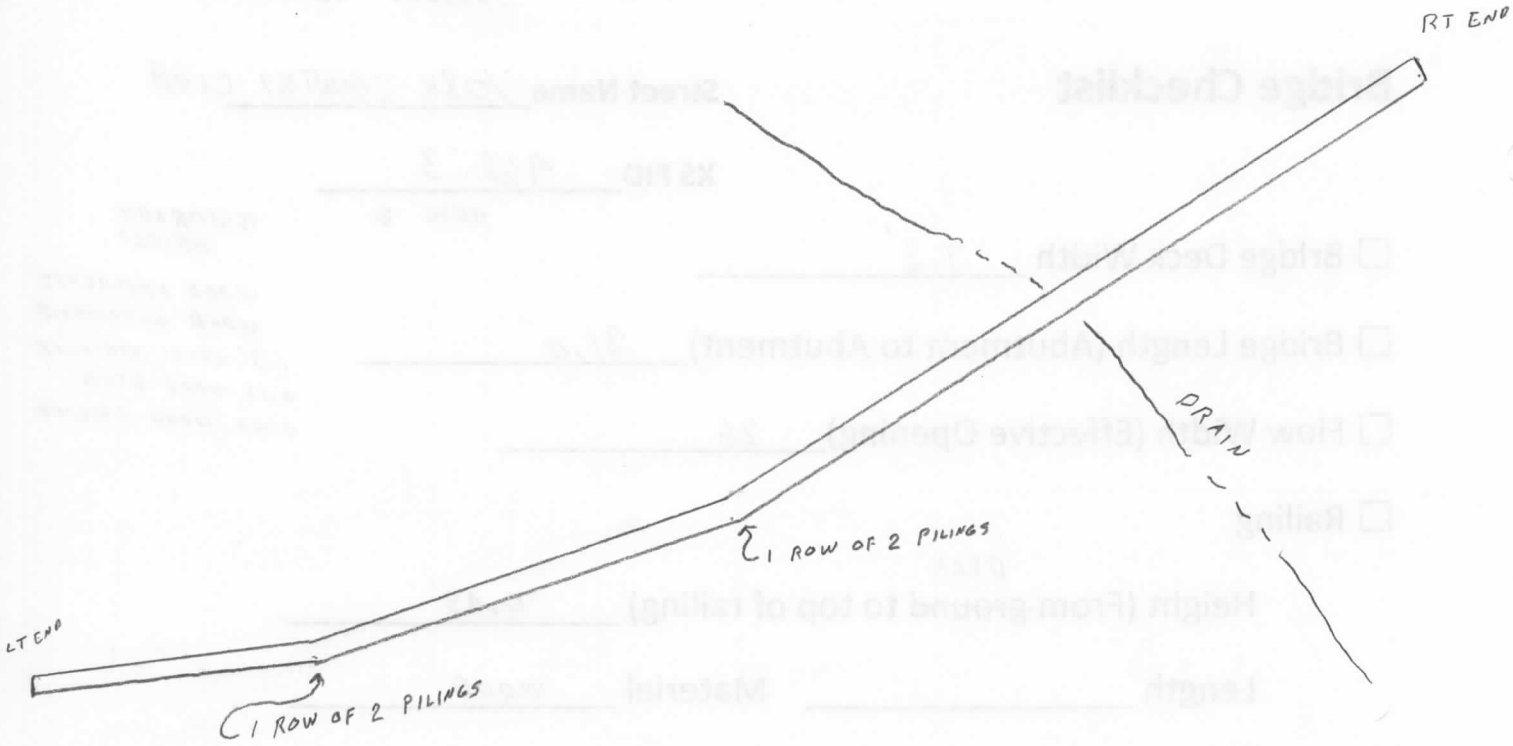
☐ Channel Downstream of the Bridge 419

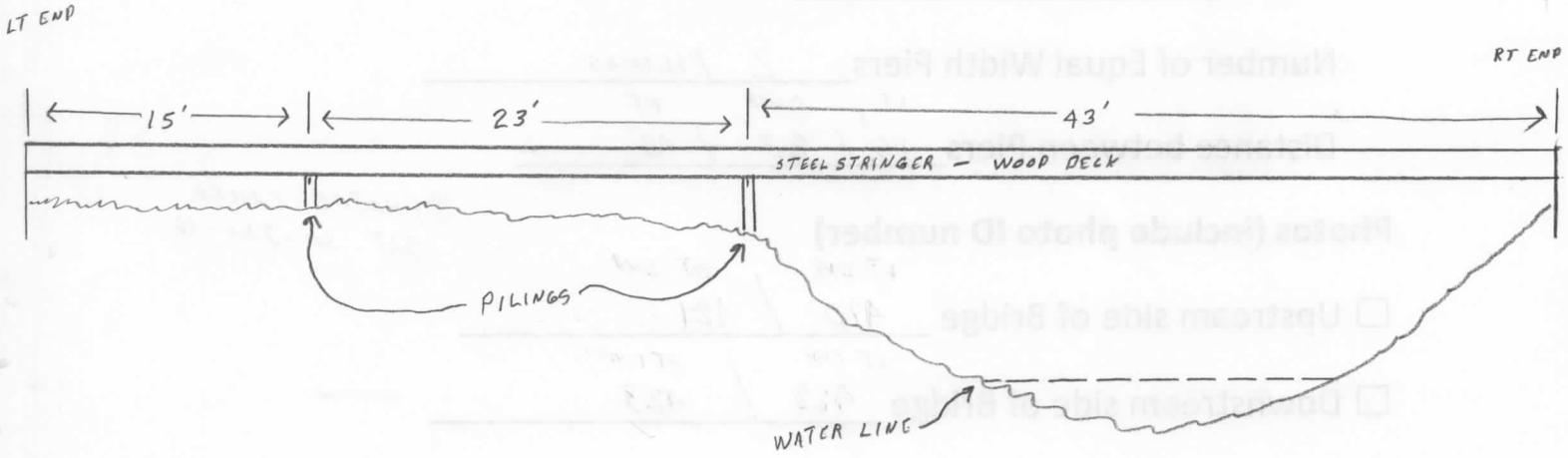
☐ Along road facing left 417

☐ Along road facing right 416

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


RT END
DRAIN
1 ROW OF 2 PILINGS
LT END
1 ROW OF 2 PILINGS


LT END
RT END
15'
23'
43'
STEEL STRINGER – WOOD DECK
PILINGS
WATER LINE

TUESDAY 12-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 464.3

BRDG 7

WOOD WINGWALLS
WOOD ABUTMENTS
1.3 STEEL STRINGER
0.15 WOOD DECK

☐ Bridge Deck Width 7.0'

☐ Bridge Length (Abutment to Abutment) 56

☐ Flow Width (Effective Opening) 17

☐ Railing NONE

Height (From ground to top of railing) _____

Length _____ Material _____

☐ Low Steel from Bridge Deck (if accessible) 1.45'

☐ Pier Size**

Width NONE

Number of Equal Width Piers _____

Distance between Piers _____

Photos (include photo ID number)

PHOTOS TAKEN SAT 30-JAN-16

☐ Upstream side of Bridge LT END 412 / RT END 413

☐ Downstream side of Bridge LT END 414 / RT END 415

☐ Channel Upstream of the Bridge 410

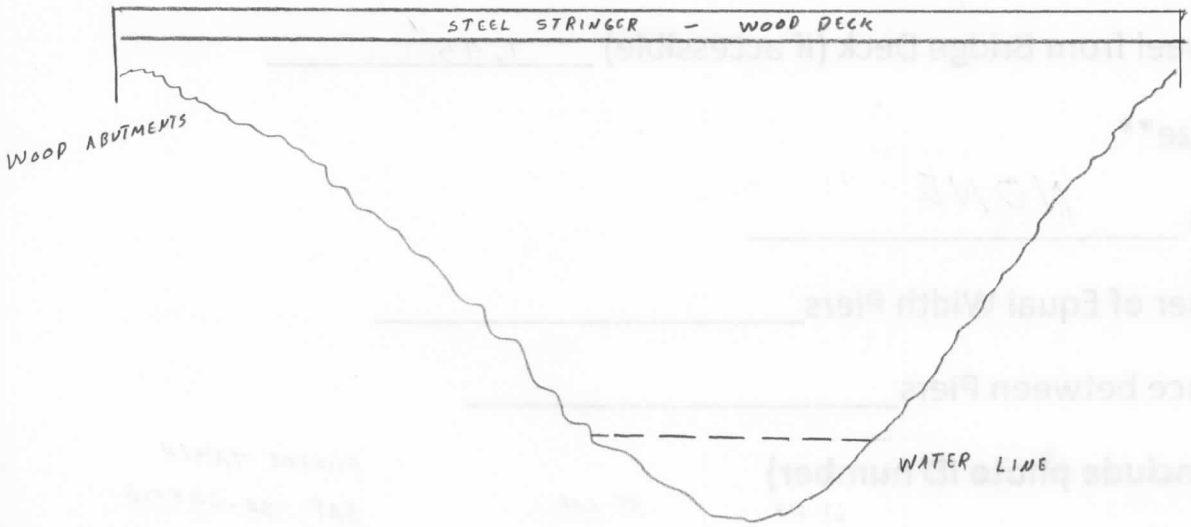
☐ Channel Downstream of the Bridge 411

☐ Along road facing left 408

☐ Along road facing right 409

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


STEEL STRINGER - WOOD DECK
WOOD ABUTMENTS
WATER LINE

TUESDAY 12-JAN-16

Bridge Checklist

Street Name YOR COUNTRY CLUB

XS FID 465

BRIDGE 8

☐ Bridge Deck Width 7.0'

☐ Bridge Length (Abutment to Abutment) 60.0'

WOOD WINGWALLS
WOOD ABUTMENTS
1.3' STEEL STRINGER
0.15 WOOD DECK

☐ Flow Width (Effective Opening) 21'

☐ Railing

Height (From ground to top of railing) NONE

Length _____ Material _____

☐ Low Steel from Bridge Deck (if accessible) 1.45'

☐ Pier Size**

Width NONE

Number of Equal Width Piers NONE

Distance between Piers _____

PHOTOS TAKEN
SAT 30-JAN-16

Photos (include photo ID number)

☐ Upstream side of Bridge 406

☐ Downstream side of Bridge 407

☐ Channel Upstream of the Bridge 404

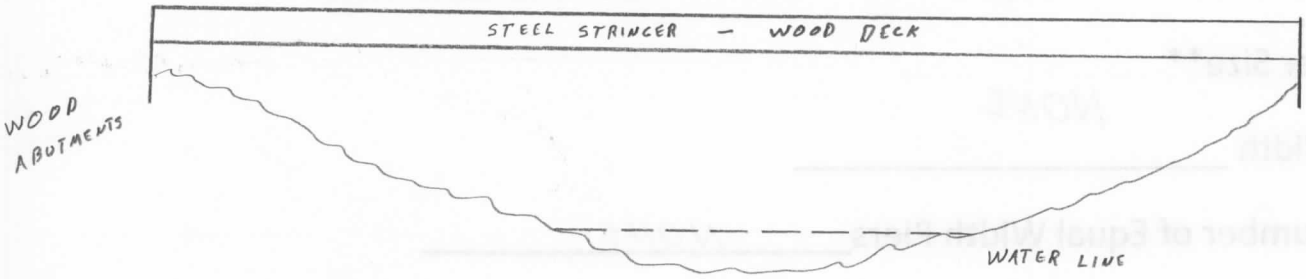
☐ Channel Downstream of the Bridge 405

☐ Along road facing left 402

☐ Along road facing right 403

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


STEEL STRINGER - WOOD DECK
WOOD ABUTMENTS
WATER LINE

TUESDAY 12-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 466.3

BRDG 9

☐ Bridge Deck Width 12.0

☐ Bridge Length (Abutment to Abutment) 89.0'

☐ Flow Width (Effective Opening) 17'

WOOD ABUTMENTS
WOOD WINGWALLS
1.5 STEEL STRINGER
0.25 WOOD DECK

☐ Railing NONE

Height (From ground to top of railing) _____

Length _____ Material _____

☐ Low Steel from Bridge Deck (if accessible) 1.75'

☐ Pier Size** 2 SETS OF PILINGS
EACH SET IS 1 ROW OF 4
0.7' DIA ROUND WOOD

Width _____

Number of Equal Width Piers 2

Distance between Piers (RT / CNTR / LT) 21 / 45 / 23

PHOTOS TAKEN
SAT 30-JAN-16

Photos (include photo ID number)

☐ Upstream side of Bridge (LT END / CENTER / RT END) 396 / 397 / 398

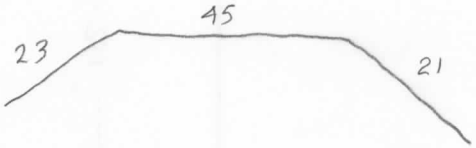
☐ Downstream side of Bridge (LT END / CENTER / RT END) 399 / 400 / 401

☐ Channel Upstream of the Bridge 394

☐ Channel Downstream of the Bridge 395

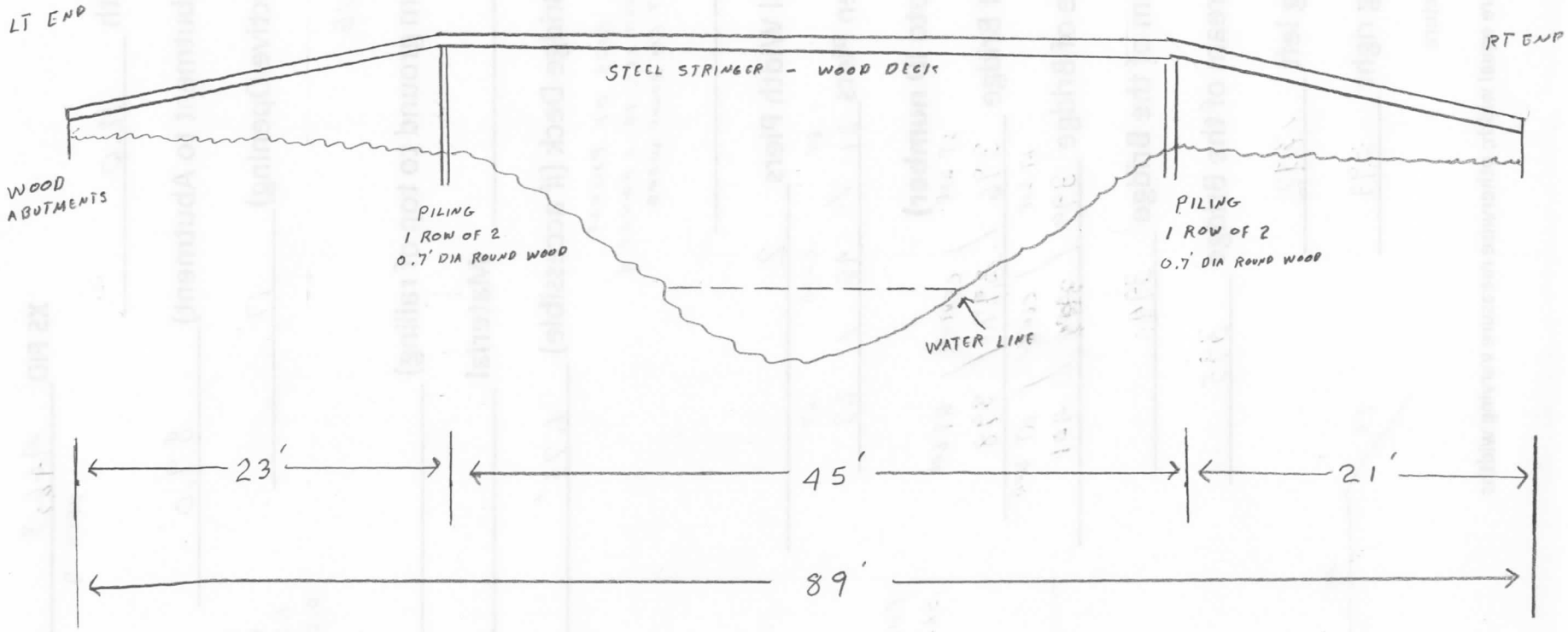
☐ Along road facing left 392

☐ Along road facing right 393



*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


LT END
RT END
STEEL STRINGER - WOOD DECK
WOOD ABUTMENTS
PILING
1 ROW OF 2
0.7' DIA ROUND WOOD
PILING
1 ROW OF 2
0.7' DIA ROUND WOOD
WATER LINE
23'
45'
21'
89'

TUESDAY 12-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 468.3

BRDG 10

☐ Bridge Deck Width 7.0'

☐ Bridge Length (Abutment to Abutment) 107.0'

☐ Flow Width (Effective Opening) 19

WOOD WINGWALLS
WOOD ABUTMENTS
1.25 STEEL STRINGER
0.15 WOOD DECK

☐ Railing NONE

Height (From ground to top of railing) _____

Length _____ Material _____

☐ Low Steel from Bridge Deck (if accessible) 1.4'

☐ Pier Size**

Width _____

Number of Equal Width Piers (LT / R): 8 / 45 / 11 / 20 / 23

Distance between Piers _____

Photos (include photo ID number)

PHOTOS TAKEN SAT 30-JAN-16

☐ Upstream side of Bridge (RT END / CENTER / LT END): 378 / 379 / 380

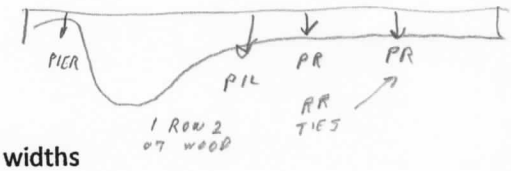
☐ Downstream side of Bridge (RT END / CENTER / LT END): 381 / 382 / 383

☐ Channel Upstream of the Bridge 376

☐ Channel Downstream of the Bridge 377

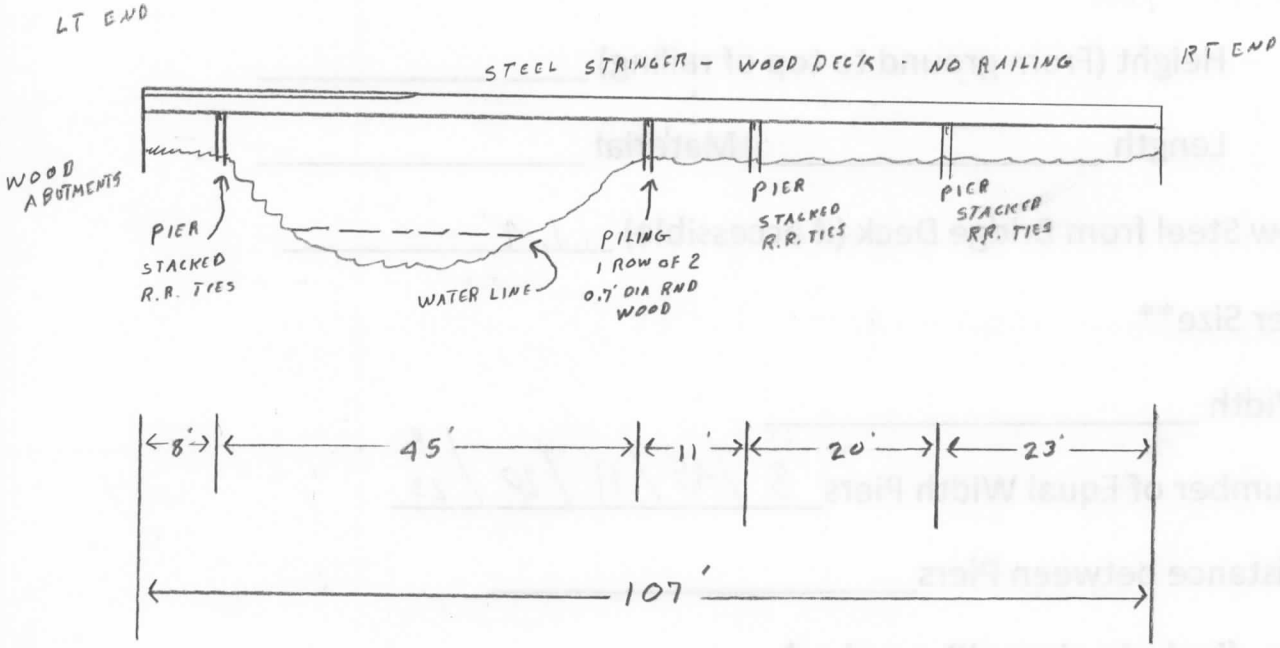
☐ Along road facing left 374

☐ Along road facing right 375



*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


LT END
STEEL STRINGER - WOOD DECK - NO RAILING
RT END
WOOD ABUTMENTS
PIER
STACKED R.R. TIES
WATER LINE
PILING
1 ROW OF 2
0.7' DIA RND WOOD
PIER
STACKED R.R. TIES
PIER
STACKED R.R. TIES
8'
45'
11'
20'
23'
107'

SAT 30-JAN-16

Bridge Checklist

Street Name YORK COUNTRY CLUB

XS FID 469

GOLF COURSE BRDG NEW

☐ Bridge Deck Width 8.0 FT.

☐ Bridge Length (Abutment to Abutment) 60.0 FT.

CONCRETE ABUTMENTS
CONCRETE WINGWALLS
1 PIECE CONCRETE STRINGER & DECK

☐ Flow Width (Effective Opening) 18.0 FT

☐ Railing

NONE

Height (From ground to top of railing) _____

Length _____ Material _____

☐ Low ~~Steel~~ CONCRETE from Bridge Deck (if accessible) 3.0

☐ Pier Size**

NONE

Width _____

Number of Equal Width Piers _____

Distance between Piers _____

Photos (include photo ID number)

☐ Upstream side of Bridge LT END 388 / RT END 389

☐ Downstream side of Bridge LT END 390 / RT END 391

☐ Channel Upstream of the Bridge 386

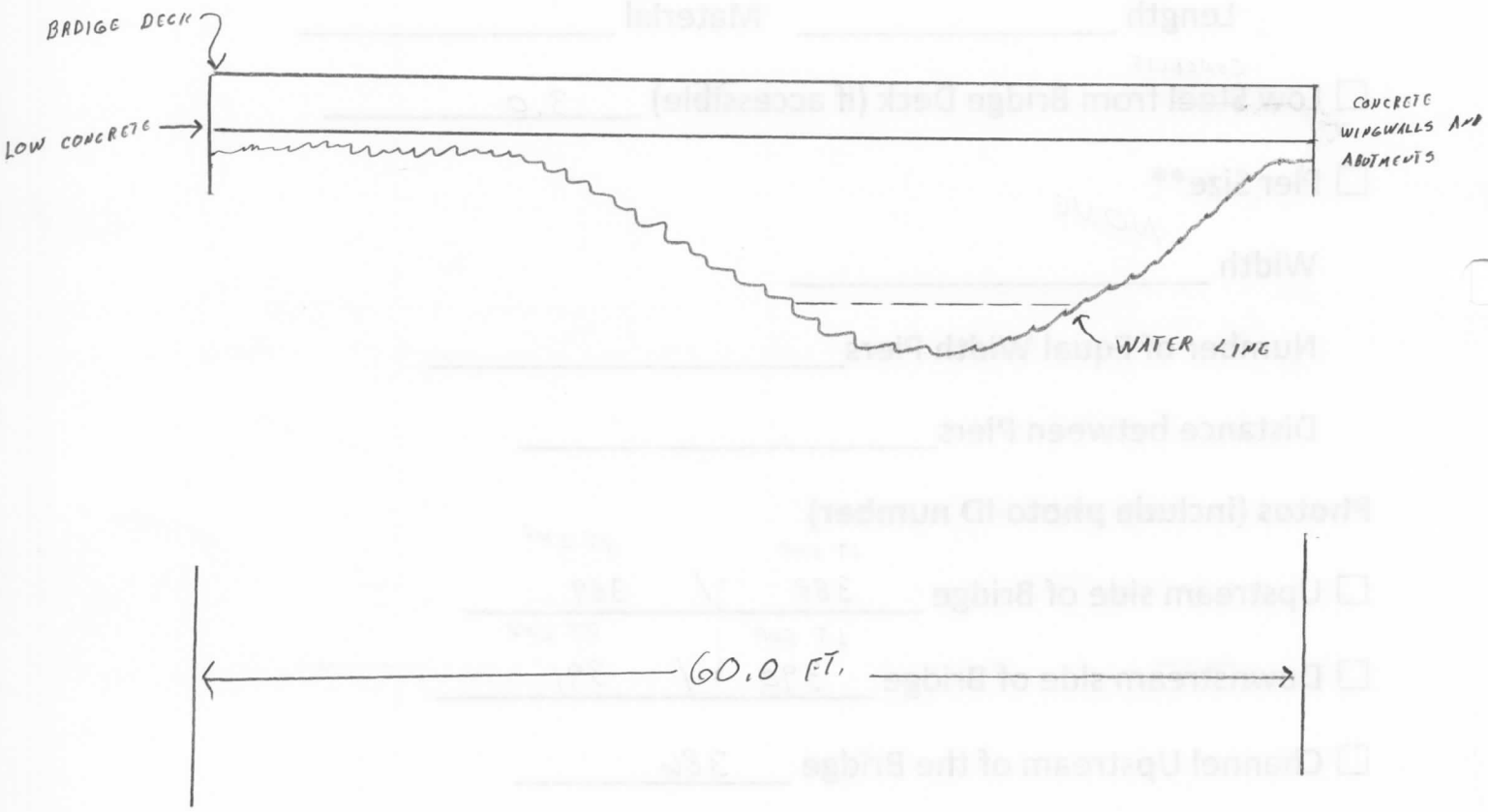
☐ Channel Downstream of the Bridge 387

☐ Along road facing left 385

☐ Along road facing right 384

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


BRIDGE DECK
LOW CONCRETE
CONCRETE WINGWALLS AND ABUTMENTS
WATER LINE
60.0 FT.

TUESDAY 12-JAN-16

Bridge Checklist

Street Name U.S. HWY 81 BRIDGE # 06123
BEAVER CREEK

XS FID 470.3

CONCRETE WINGWALLS
CONCRETE ABUTMENTS
3.0' CONC STRINGER
0.7' CONC DECK

☐ Bridge Deck Width 89.0

☐ Bridge Length (Abutment to Abutment) 222.0'

☐ Flow Width (Effective Opening) 16'

☐ Railing

Height (From ground to top of railing) 2.6' HIGH

Length 280.0' Material CONCRETE

☐ Low ~~Steel~~ CONCRETE from Bridge Deck (if accessible) 3.7'

☐ Pier Size** 2 CONCRETE PIERS

Width 2.5' WIDE SOLID CONCRETE - POINTED - STEEL FACED

Number of Equal Width Piers 2

Distance between Piers LT 68 / CNTR 86.5 / RT 67.5 RT 29 29

Photos (include photo ID number)

PHOTOS TAKEN
SAT 30-JAN-16

☐ Upstream side of Bridge LT END 368 / CENTER 369 / RT END 370

☐ Downstream side of Bridge LT END 371 / CENTER 372 / RT END 373

☐ Channel Upstream of the Bridge 366

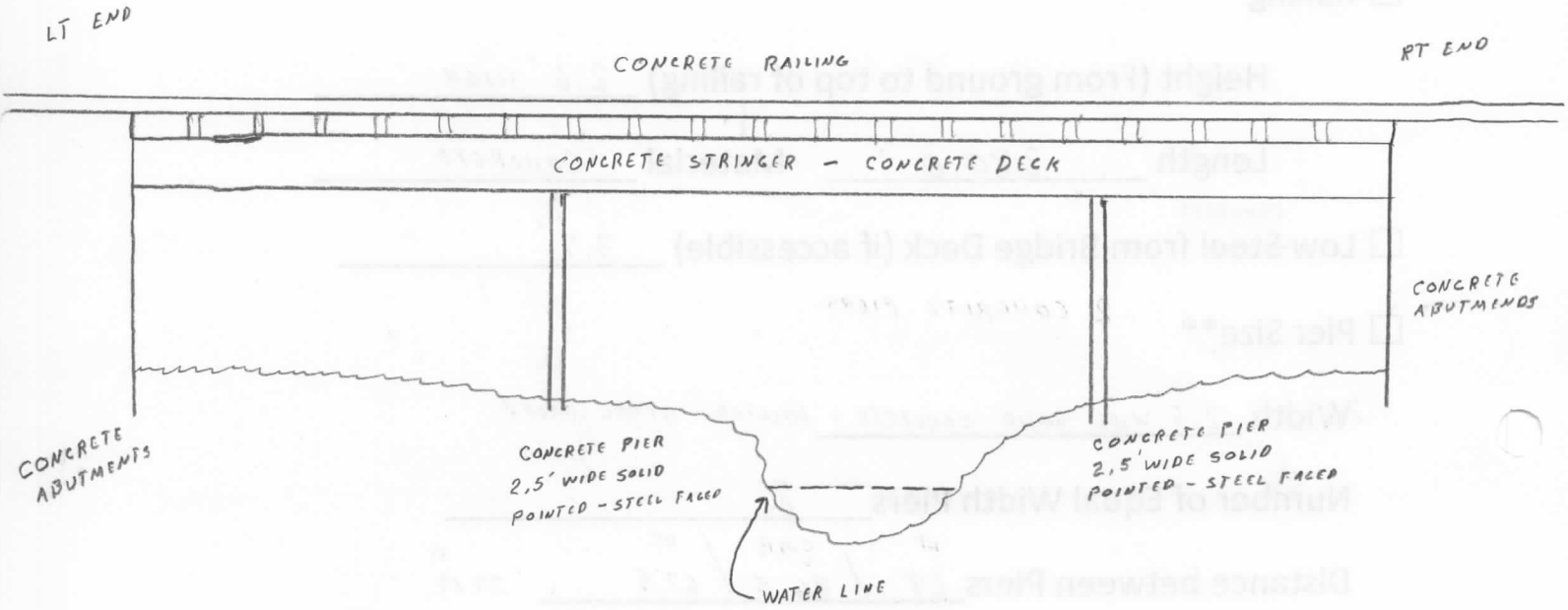
☐ Channel Downstream of the Bridge 367

☐ Along road facing left 364

☐ Along road facing right 365

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


LT END
CONCRETE RAILING
RT END
CONCRETE STRINGER - CONCRETE DECK
CONCRETE ABUTMENTS
CONCRETE ABUTMENTS
CONCRETE PIER
2.5' WIDE SOLID
POINTED - STEEL FACED
CONCRETE PIER
2.5' WIDE SOLID
POINTED - STEEL FACED
WATER LINE

TUE 12-JAN-16

Bridge Checklist

Street Name COUNTY ROAD "K"

XS FID 478.3 BEAVER CREEK

☐ Bridge Deck Width 23'

☐ Bridge Length (Abutment to Abutment) 39'

☐ Flow Width (Effective Opening) 9'

CONCRETE WINGWALLS
CONCRETE ABUTMENTS
3.0' CONC STRINGER
0.5 CONC DECK

CONC RAIL 2.0'
STEEL RAIL 0.8'

7 OPEN

☐ Railing

Height (From ground to top of railing) 2.0' SOLID CONCRETE WALL 0.8' STEEL RAILING ABOVE CONCRETE WALL

Length 39 Material CONC & STEEL

☐ Low ~~Steel~~ CONCRETE from Bridge Deck (if accessible) 3.5'

☐ Pier Size** NONE

Width

Number of Equal Width Piers

Distance between Piers

Photos (include photo ID number)

PHOTOS TAKEN 01-FEB-16

☐ Upstream side of Bridge 538

☐ Downstream side of Bridge 539

☐ Channel Upstream of the Bridge 536

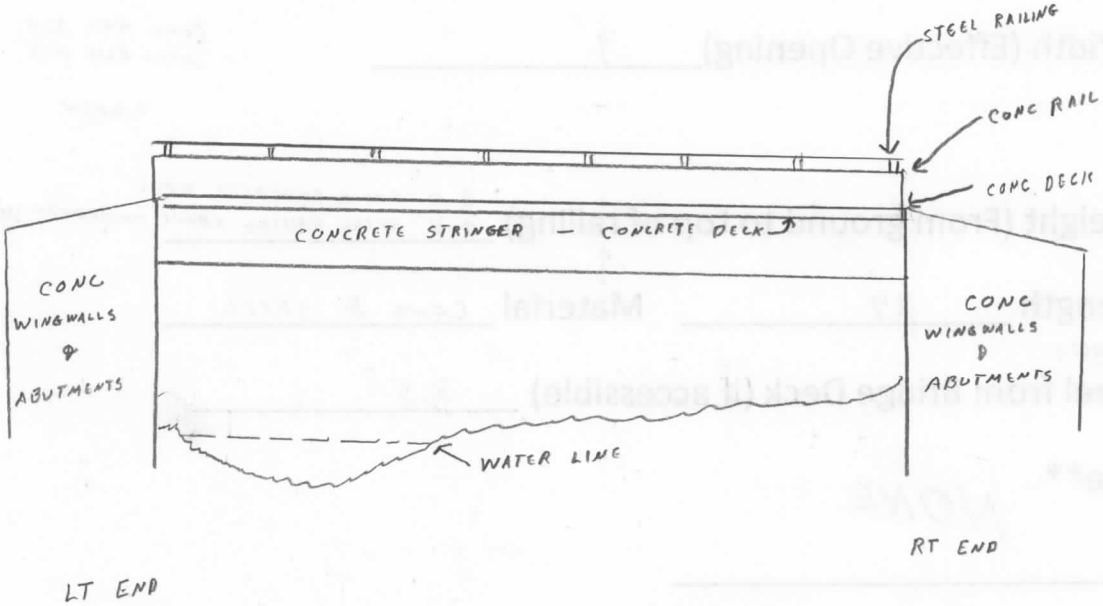
☐ Channel Downstream of the Bridge 537

☐ Along road facing left 535

☐ Along road facing right 534

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


STEEL RAILING
CONC RAIL
CONC DECK
CONCRETE STRINGER
CONCRETE DECK
CONC WINGWALLS & ABUTMENTS
CONC WINGWALLS & ABUTMENTS
WATER LINE
RT END
LT END

WED 13-JAN-16

Culvert Checklist

Street Name NOBES RD

XS FID 506.3 TRIB "A"

☐ Culvert Type and Material CONCRETE

Culvert Shape BOX

Number of barrels/openings 2 8' WIDE X 8' HIGH

1.6' CONCRETE HEADWALL

Pier width 0.6'

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☒ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road ~~Length~~ WIDTH 24'

Culvert Length 75.5

Culvert Width 8.0' EACH BARREL

Culvert Height 8.0' EACH BARREL

☐ Railing Shape and Size

Railing Length NONE

Railing Height

Railing Material

Photos (include photo ID number)

☐ Inlet 553 01-FEB-16

☐ Outlet 551

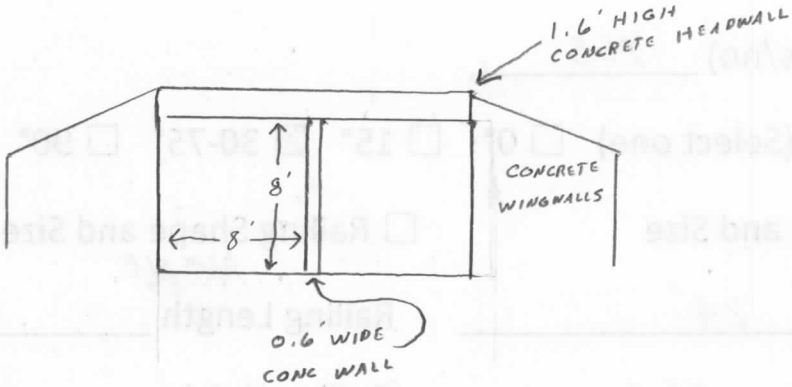
☐ Channel Upstream of the Culvert 549

☐ Channel Downstream of the Culvert 550

☐ Along road facing left 547

☐ Along road facing right 548

☐ Inside Culvert 552


1.6' HIGH
CONCRETE HEADWALL
8'
8'
CONCRETE
WINGWALLS
0.6' WIDE
CONC WALL

WED 13-JAN-16

Culvert Checklist

Street Name EAST 4TH STREET

XS FID 512.3 TRIB "A"

☐ Culvert Type and Material CONCRETE

Culvert Shape BOX

Number of barrels/openings 2 8' WIDE X 8' HIGH 1.6' CONC HEADWALL

Pier width 0.6'

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☒ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road ~~Length~~ WIDTH 23'

Culvert Length 42.0'

Culvert Width 8.0' EACH BARREL

Culvert Height 8.0' EACH BARREL

☐ Railing Shape and Size

Railing Length NONE

Railing Height

Railing Material

Photos (include photo ID number)

☐ Inlet 560

MON 01-FEB-16

☐ Outlet 558

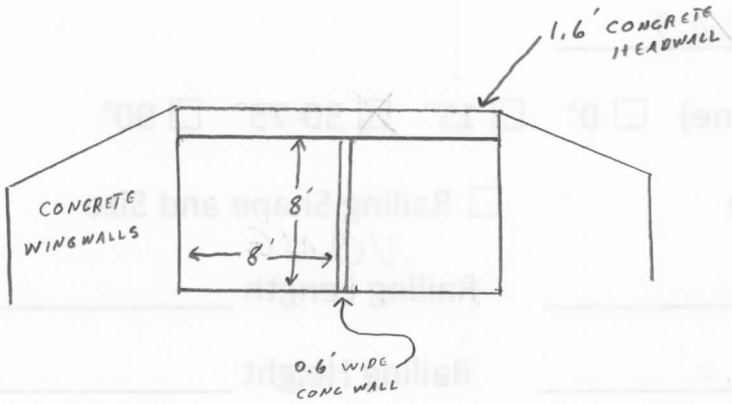
☐ Channel Upstream of the Culvert 556

☐ Channel Downstream of the Culvert 557

☐ Along road facing left 555

☐ Along road facing right 554

☐ Inside Culvert 559


1.6' CONCRETE HEADWALL
CONCRETE WINGWALLS
8'
8'
0.6' WIDE CONC WALL

WED 13-JAN-16

Culvert Checklist

Street Name N MAINE AVE

XS FID 516.3 TRIB "A"

☐ Culvert Type and Material CONCRETE

Culvert Shape BOX

Number of barrels/openings 2 8' WIDE X 7' HIGH 1:6 CONC HEADWALL

Pier width 0.6'

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☒ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road ~~Length~~ WIDTH 32'

Culvert Length 98.0'

Culvert Width 8.0' EACH BARREL

Culvert Height 7.0' EACH BARREL

☐ Railing Shape and Size

Railing Length NONE

Railing Height

Railing Material

Photos (include photo ID number)

01-FEB-16

☐ Inlet 565

☐ Outlet 567

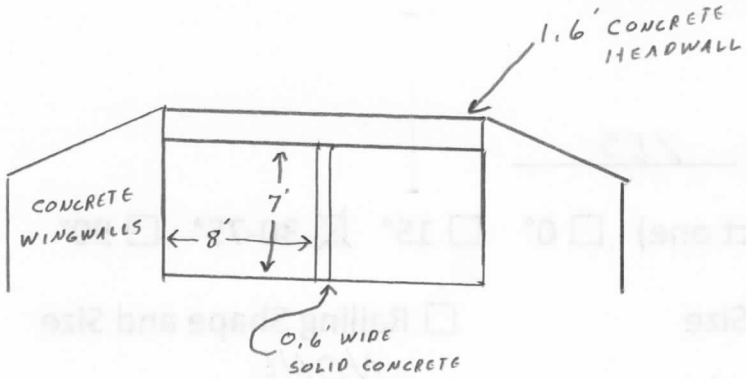
☐ Channel Upstream of the Culvert 563

☐ Channel Downstream of the Culvert 564

☐ Along road facing left 561

☐ Along road facing right 562

☐ Inside Culvert 566


1.6' CONCRETE HEADWALL
CONCRETE WINGWALLS
7'
8'
0.6' WIDE SOLID CONCRETE

WED 13-JAN-16

Culvert Checklist

Street Name EAST 8TH STREET

XS FID 518.3 TRIB "A"

☐ Culvert Type and Material CONCRETE

Culvert Shape ROUND

Number of barrels/openings 2

1.1' CONCRETE HEADWALL
2.4 WALL
9.4' ℄ TO ℄
17' WIDE CONC HEADWALL

Pier width 2.4'

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☒ 90°

☐ Culvert Shape and Size

Road ~~Length~~ WIDTH 33'

Culvert Length 45.0'

Culvert Width 7.0' DIA RND CONC EACH BARREL

Culvert Height _____

☐ Railing Shape and Size

Railing Length 41.0'

Railing Height 3.0'

Railing Material STEEL GAURD RAIL

Photos (include photo ID number)

MON 01-FEB-16

☐ Inlet 573

☐ Outlet 572

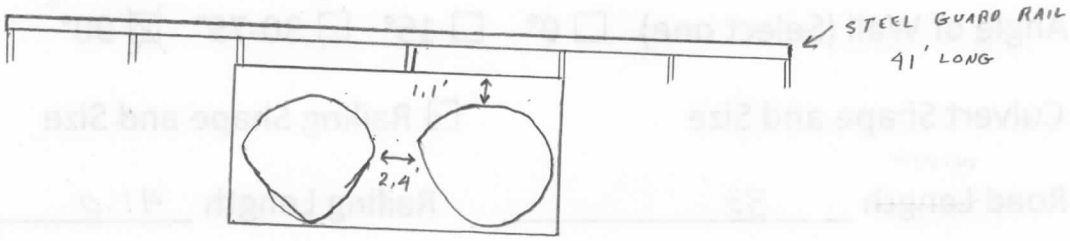
☐ Channel Upstream of the Culvert 570

☐ Channel Downstream of the Culvert 571

☐ Along road facing left 569

☐ Along road facing right 568

☐ Inside Culvert 574



2 7.0' DIA ROUND CONCRETE PIPES

45.0' LONG

WED 13-JAN-16

Culvert Checklist

Street Name EAST 9TH STREET

XS FID 522.3 TRIB "A"

☐ Culvert Type and Material CONCRETE

Culvert Shape ROUND

Number of barrels/openings 1

7.0' DIA. ROUND CONC PIPE
1.5 HEADWALL
8.0' CONC HEADWALL

Pier width NONE

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☒ 90°

☐ Culvert Shape and Size

Road Length 33'

Culvert Length 77.5'

Culvert Width 7.0' DIA RND CONC PIPE

Culvert Height

☐ Railing Shape and Size

NONE

Railing Length

Railing Height

Railing Material

Photos (include photo ID number)

MON 01-FEB-16

☐ Inlet 581

☐ Outlet 579

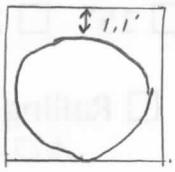
☐ Channel Upstream of the Culvert 577

☐ Channel Downstream of the Culvert 578

☐ Along road facing left 576

☐ Along road facing right 575

☐ Inside Culvert 580



7.0' DIA. ROUND CONCRETE PIPE

77.5' LONG

8.0' CONCRETE HEADWALL WIDTH

WCD 13-JAN-16

Culvert Checklist

Street Name ASSUMED OLD RAILROAD GRADE

XS FID 526.0 TRIB "A"

☐ Culvert Type and Material STONE

Culvert Shape DOMED

Number of barrels/openings 1

Pier width NONE

6.0' WIDE X 9.0' HIGH
STONE WINGWALLS
STONE HEADWALL
4.3' STONE HEADWALL ABOVE CLVT DOME

☐ Culvert face

Wingwalls (yes/no) YES - STONE BLOCK

Angle of Wall (Select one) ☐ 0° ☐ 15° ☒ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length 48.0'

Culvert Width 6.0' WIDE

Culvert Height 9.0' HIGH

☐ Railing Shape and Size

NONE

Railing Length _____

Railing Height _____

Railing Material _____

Photos (include photo ID number)

MON - 01-FEB-16

☐ Inlet 588

☐ Outlet 586

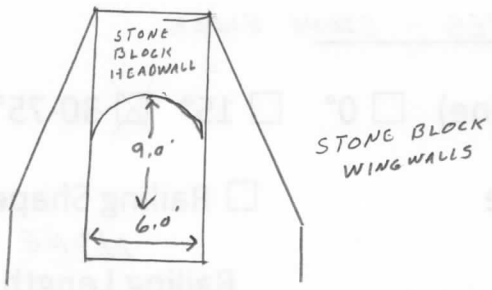
☐ Channel Upstream of the Culvert 584

☐ Channel Downstream of the Culvert 585

☐ Along road facing left 582

☐ Along road facing right 583

☐ Inside Culvert 587


STONE BLOCK HEADWALL
9.0'
6.0'
STONE BLOCK WINGWALLS

THUR 14-JAN-16

Culvert Checklist

Street Name N FLORIDA AVE

XS FID 530.3 TRIB "A"

☐ Culvert Type and Material CONCRETE

Culvert Shape ROUND

Number of barrels/openings 1

Pier width NA

OUTLET OF CULVERT IS ON THE EAST SIDE OF N FLORIDA AVE. THE INLET OF THIS CULVERT IS ON THE WEST SIDE OF N DELAWARE AVE.

☐ Culvert face

Wingwalls (yes/no) NO

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width 6.0' DIA. ROUND

Culvert Height _____

☐ Railing Shape and Size

Railing Length NONE

Railing Height _____

Railing Material _____

Photos (include photo ID number)

MON 01-FEB-16

☐ Inlet _____

☐ Outlet 591

☐ Channel Upstream of the Culvert _____

☐ Channel Downstream of the Culvert 593

☐ Along road facing left ~~58~~ 589

☐ Along road facing right 590

☐ Inside Culvert 592

Culvert Checklist

☐ Culvert Type and Material _____

Culvert Shape _____

Number of barrels/openings _____

Pier width _____

☐ Culvert face

Wingwalls (yes/no) _____

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width _____

Culvert Height _____

Photos (include photo ID number)

☐ Inlet _____

☐ Outlet _____

☐ Channel Upstream of the Culvert _____

☐ Channel Downstream of the Culvert _____

☐ Along road facing left _____

☐ Along road facing right _____

☐ Inside Culvert _____

☐ Railing Shape and Size

Railing Length _____

Railing Height _____

Railing Material _____

THUR 14-JAN-16

Culvert Checklist

Street Name N DELAWARE AVE

XS FID 534.3 TRIB "A"

☐ Culvert Type and Material CONCRETE

Culvert Shape ROUND

Number of barrels/openings 1

Pier width NA

INLET OF CULVERT IS ON THE WEST SIDE OF N DELAWARE AVE. OUTLET OF THIS CULVERT IS ON THE EAST SIDE OF N FLORIDA AVE.

☐ Culvert face

CONCRETE HEADWALL
12.8' WIDE X 6.3' HIGH

Wingwalls (yes/no) NO

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width _____

Culvert Height _____

☐ Railing Shape and Size

NONE

Railing Length _____

Railing Height _____

Railing Material _____

CULVERT OPENING IS
7.8' WIDE X 4.8' HIGH OVAL CONCRETE.
AT THE HEADWALL,

AT 9.5' INSIDE OF HEADWALL, THE CULVERT NARROWS TO A 5.0' DIA. ROUND CONCRETE PIPE

Photos (include photo ID number)

☐ Inlet 597 / 598

☐ Outlet _____

☐ Channel Upstream of the Culvert 596

☐ Channel Downstream of the Culvert _____

MON 01-FEB-16

☐ Along road facing left 594

☐ Along road facing right 595

☐ Inside Culvert 599

Culvert Checklist

☐ Culvert Type and Material _____

Culvert Shape _____

Number of barrels/openings _____

Pipe width _____

☐ Culvert face

Wingwalls (yes/no) _____

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width _____

Culvert Height _____

Photos (Include photo ID number)

☐ Inlet _____

☐ Outlet _____

☐ Channel Upstream of the Culvert _____

☐ Channel Downstream of the Culvert _____

☐ Along road facing left _____

☐ Along road facing right _____

☐ Inside Culvert _____

☐ Railing Shape and Size

Railing Length _____

Railing Height _____

Railing Material _____

THUR 14-JAN-16

Culvert Checklist

Street Name E 14TH STREET

XS FID 538.3 TRIB "A"

☐ Culvert Type and Material CONCRETE

Culvert Shape OVAL 5.0' WIDE X 3.3' HIGH

Number of barrels/openings 1

Pier width NA

☐ Culvert face NO HEADWALL

Wingwalls (yes/no) NO

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road ~~Length~~ WIDTH 33'

Culvert Length 81.7'

Culvert Width 5.0' } OVAL CONCRETE

Culvert Height 3.3 }

☐ Railing Shape and Size

Railing Length NONE

Railing Height

Railing Material

Photos (include photo ID number)

☐ Inlet 605

☐ Outlet 604

MON 01-FEB-16

☐ Channel Upstream of the Culvert 602

☐ Channel Downstream of the Culvert 603

☐ Along road facing left 601

☐ Along road facing right 600

☐ Inside Culvert 606

Culvert Checklist

Street Name _____

XS #/ID _____

☐ Culvert Type and Material _____

Culvert Shape _____

Number of barrels/openings _____

Pier width _____

☐ Culvert face

Wingwalls (yes/no) _____

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width _____

Culvert Height _____

☐ Railing Shape and Size

Railing Length _____

Railing Height _____

Railing Material _____

Photos (Include photo ID number)

☐ Inlet _____

☐ Outlet _____

☐ Channel Upstream of the Culvert _____

☐ Channel Downstream of the Culvert _____

☐ Along road facing left _____

☐ Along road facing right _____

☐ Inside Culvert _____

THUR 14-JAN-16

Culvert Checklist

Street Name EAST NOBES RD

XS FID 602.3

☐ Culvert Type and Material CONCRETE

Culvert Shape ROUND

6.0' DIA. RND CONC

1.2

Number of barrels/openings 2

16' WIDE HEADWALL
7.2' HIGH HEADWALL

Pier width 3.0'

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☒ 90°

☐ Culvert Shape and Size

Road ~~Length~~ WIDTH 33

Culvert Length 76'

Culvert Width 6.0'

Culvert Height 6.0'

☐ Railing Shape and Size

Railing Length 16'

Railing Height 3.6

Railing Material STEEL PIPE

Photos (include photo ID number)

MON 01-FEB-16

☐ Inlet 544

☐ Outlet 545

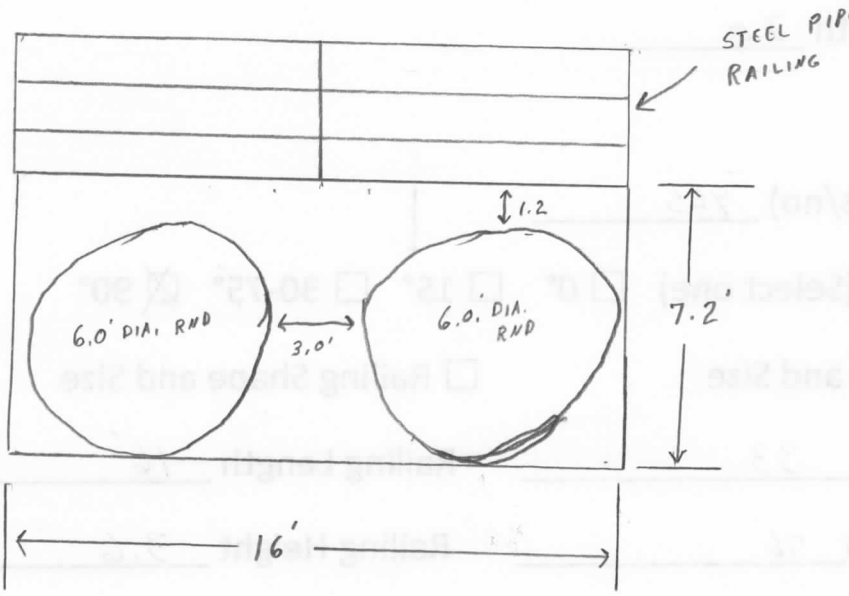
☐ Channel Upstream of the Culvert 542

☐ Channel Downstream of the Culvert 543

☐ Along road facing left 541

☐ Along road facing right 540

☐ Inside Culvert 546


STEEL PIPE RAILING
1.2
6.0' DIA. RND
3.0'
6.0' DIA. RND
7.2'
16'

THUR 14-JAN-16

Culvert Checklist

Street Name S GRANT AVE.

XS FID 704.3

☐ Culvert Type and Material CONCRETE

Culvert Shape BOX

14.2' WIDE X 6.8' HIGH

21.8 HEADWALL X 1.0'

Number of barrels/openings 1

Pier width N A

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☒ 90°

☐ Culvert Shape and Size

Road ~~Length~~ WIDTH 22'

Culvert Length 28.4

Culvert Width 14.2

Culvert Height 6.8

☐ Railing Shape and Size

Railing Length 21'

Railing Height 2.1

Railing Material STEEL GUARD RAIL

Photos (include photo ID number)

MON 01-FEB-16

☐ Inlet 627

☐ Outlet 628

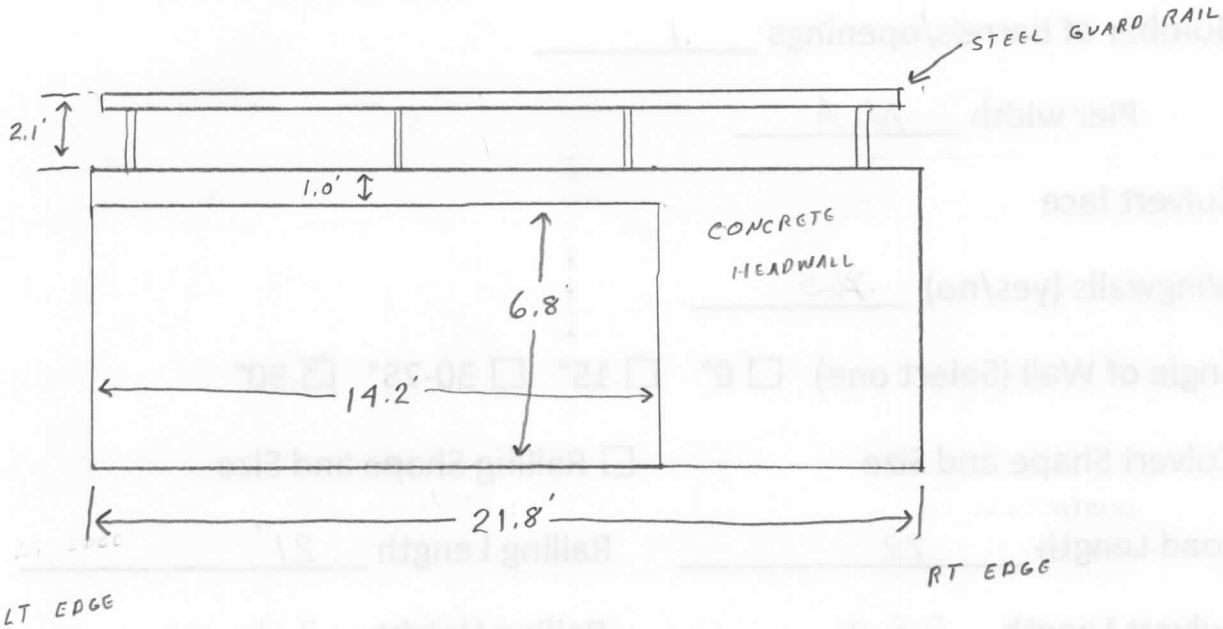
☐ Channel Upstream of the Culvert 624

☐ Channel Downstream of the Culvert 625

☐ Along road facing left 622

☐ Along road facing right 623

☐ Inside Culvert 626


STEEL GUARD RAIL
2.1'
1.0'
CONCRETE
HEADWALL
6.8'
14.2'
21.8'
LT EDGE
RT EDGE

THUR 14-JAN-16

Culvert Checklist

Street Name SOUTH LINCOLN AVE

XS FID 712.3

CLVT OUTLET

☐ Culvert Type and Material CONCRETE

Culvert Shape BOX

Number of barrels/openings 1

Pier width NA

10' WIDE X 8' HIGH

2.0' HEADWALL

OUTLET OF CULVERT IS ON THE EAST SIDE OF S LINCOLN AVE.

INLET OF CULVERT IS ON THE WEST SIDE OF U.S. HWY 81 BY PASS

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☒ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width 10.0'

Culvert Height 8.0'

☐ Railing Shape and Size

NONE

Railing Length _____

Railing Height _____

Railing Material _____

Photos (include photo ID number)

☐ Inlet _____

☐ Outlet 620

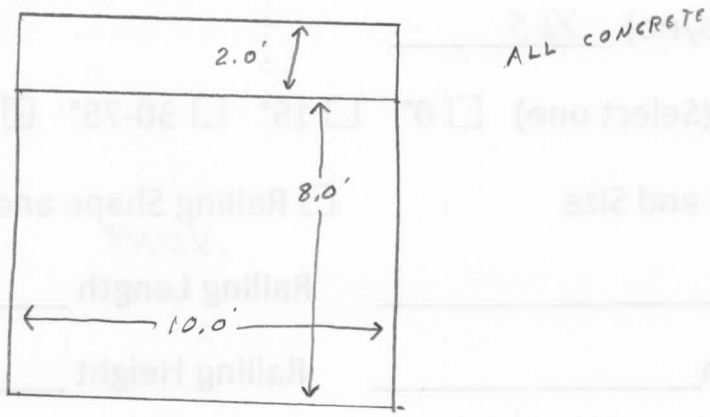
☐ Channel Upstream of the Culvert _____

☐ Channel Downstream of the Culvert 619

☐ Along road facing left 618

☐ Along road facing right 617

☐ Inside Culvert 621


2.0'
8.0'
10.0'
ALL CONCRETE

THUR- 14-JAN-16

Culvert Checklist

Street Name U.S. HWY 81 BYPASS

XS FID 714.1

CLVT INLET

☐ Culvert Type and Material CONCRETE

1.6 CONC HEADWALL

Culvert Shape BOX

INLET OF CULVERT IS ON THE WEST SIDE OF U.S. HWY 81 BYPASS,

Number of barrels/openings 1

OUTLET OF CULVERT IS ON EAST SIDE OF S LINCOLN AVE.

Pier width NA

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☒ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width 10.0'

Culvert Height 10.0'

☐ Railing Shape and Size

NONE

Railing Length _____

Railing Height _____

Railing Material _____

Photos (include photo ID number)

MON 01-FEB-16

☐ Inlet 615

☐ Outlet _____

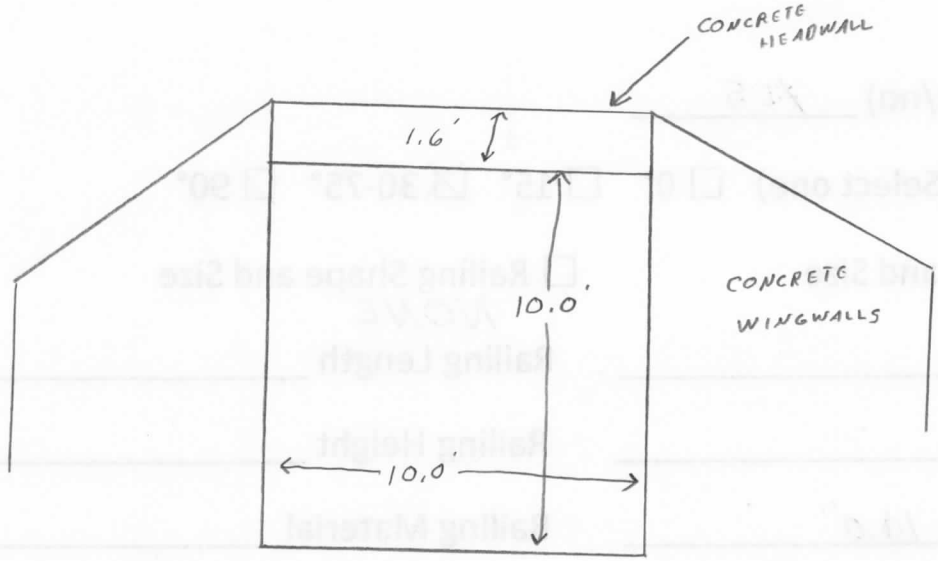
☐ Channel Upstream of the Culvert 614

☐ Channel Downstream of the Culvert _____

☐ Along road facing left 613

☐ Along road facing right 612

☐ Inside Culvert 616


CONCRETE HEADWALL
1.6'
10.0'
CONCRETE WINGWALLS
10.0'

THUR 14-JAN-16

Culvert Checklist

Street Name COUNTY ROAD 11

XS FID 718.3

☐ Culvert Type and Material CMP

Culvert Shape OVAL

Number of barrels/openings 1

Pier width NA

☐ Culvert face

Wingwalls (yes/no) YES - WOOD

Angle of Wall (Select one) ☐ 0° ☐ 15° ☒ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road ~~Length~~ 29'

Culvert Length 71'

Culvert Width 9.4'

Culvert Height 6.4'

☐ Railing Shape and Size

Railing Length NONE

Railing Height

Railing Material

Photos (include photo ID number)

MON 01-FEB-16

☐ Inlet 611

☐ Outlet

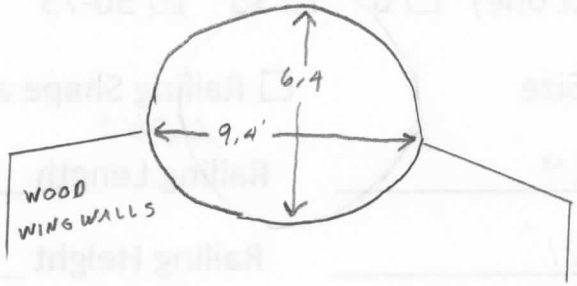
☐ Channel Upstream of the Culvert 609

☐ Channel Downstream of the Culvert 610

☐ Along road facing left 607

☐ Along road facing right 608

☐ Inside Culvert


6.4
9.4'
WOOD
WING WALLS

TUE 16-FEB-16

Culvert Checklist

Street Name BEAVER CREEK PARK

XS FID 800.3 TRIB "B"

☐ Culvert Type and Material CMP

Culvert Shape ROUND

Number of barrels/openings 1

Pier width _____

☐ Culvert face

Wingwalls (yes/no) NO

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

BIKE PATH (CONCRETE)
~~Road Length~~ 10.0 FT.

Culvert Length 45.0 FT

Culvert Width 6.0' DIA

Culvert Height 6.0' DIA

☐ Railing Shape and Size

Railing Length NONE

Railing Height _____

Railing Material _____

Photos (include photo ID number)

☐ Inlet 633

MON 01-FEB-16

☐ Outlet 634

☐ Channel Upstream of the Culvert 631

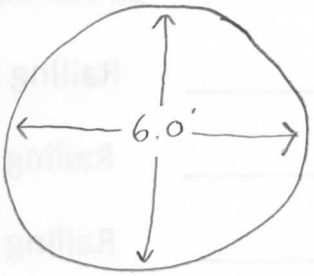
☐ Channel Downstream of the Culvert 632

☐ Along road facing left 630

☐ Along road facing right 629

☐ Inside Culvert _____

CONCRETE BIKE & WALK PATH



TUE 16-FEB-16

Culvert Checklist

Street Name IN BEAVER CREEK PARK

XS FID 802 TRIB "B"

☐ Culvert Type and Material CONCRETE PIPE

Culvert Shape ROUND

Number of barrels/openings 1

Pier width NONE

OUTLET OF CULVERT IN BEAVER CREEK PARK

INLET IS ON NORTH SIDE OF W 7TH ST ??

☐ Culvert face

Wingwalls (yes/no) NO

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width 6.0 FT. DIA.

Culvert Height 6.0 FT. DIA.

☐ Railing Shape and Size

Railing Length NONE

Railing Height _____

Railing Material _____

Photos (include photo ID number)

☐ Inlet _____

☐ Outlet 635

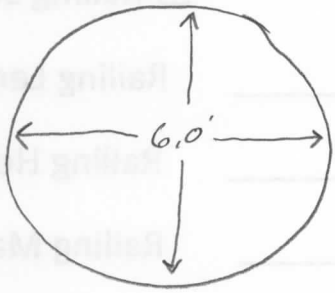
☐ Channel Upstream of the Culvert _____

☐ Channel Downstream of the Culvert 656

☐ Along road facing left _____

☐ Along road facing right _____

☐ Inside Culvert _____



ROUND CONCRETE PIPE

TUE 16-FEB-16

Culvert Checklist

Street Name W 7TH ST

XS FID 814 TRIB "B"

☐ Culvert Type and Material DOMED CONCRETE

Culvert Shape DOMED

Number of barrels/openings 1

Pier width NONE

INLET OF CULVERT IS ON NORTH SIDE OF W 7TH ST

OUTLET OF CULVERT IS IN BEAVER CREEK PARK JUST UPSTREAM FROM X-SECT 800.3

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☒ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width 7.0' WIDE

Culvert Height 8.3' TO TOP OF DOME

☐ Railing Shape and Size

Railing Length NONE

Railing Height _____

Railing Material _____

7' WIDE

4.3 TO ARCH

8.3 TO TOP

6.4 WINGWALL

1.2 HEADWALL

Photos (include photo ID number)

☐ Inlet 637

☐ Outlet _____

☐ Channel Upstream of the Culvert 636

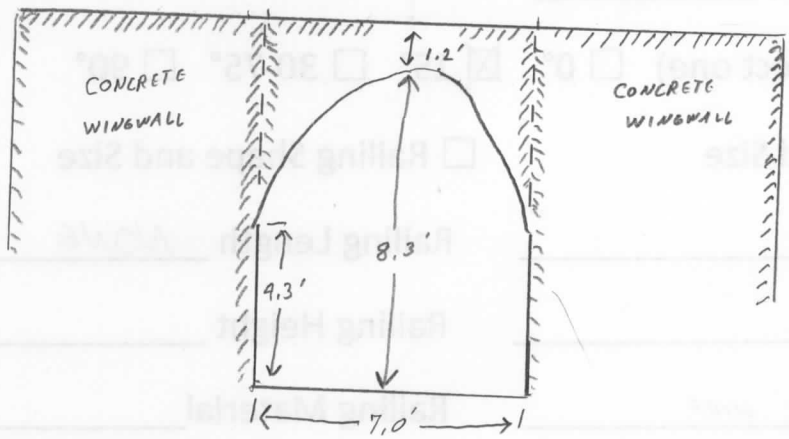
☐ Channel Downstream of the Culvert _____

☐ Along road facing left _____

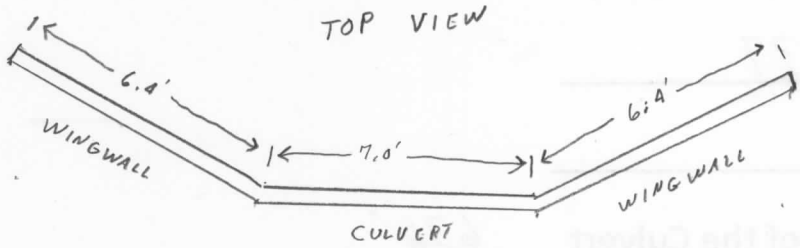
☐ Along road facing right _____

☐ Inside Culvert 657 / 658

END VIEW



TOP VIEW



TUE 16-FEB-16

Culvert Checklist

Street Name W 8TH ST

XS FID 816 TRIB "B"

☐ Culvert Type and Material CONCRETE

Culvert Shape DOMED CONCRETE

Number of barrels/openings 1

Pier width _____

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☒ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length 26 FT

Culvert Length 58.9 FT.

Culvert Width 7.0 FT.

Culvert Height _____

☐ Railing Shape and Size

Railing Length NONE

Railing Height _____

Railing Material _____

Photos (include photo ID number)

7.0' WIDE
4.0' ~~TOP~~ SIDES
7.3' TO TOP
2.0' HEADWALL
8.0 WINGWALL

☐ Inlet 643

☐ Outlet 642

☐ Channel Upstream of the Culvert 640

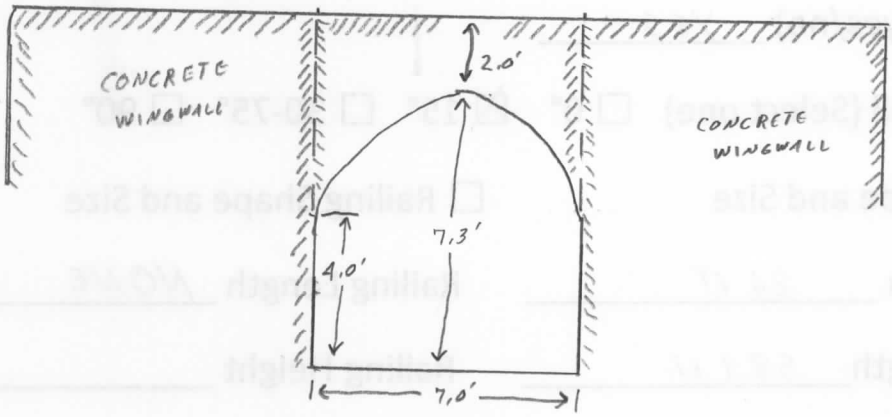
☐ Channel Downstream of the Culvert 641

☐ Along road facing left 638

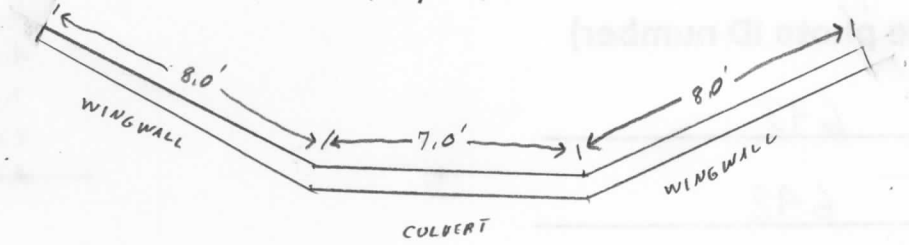
☐ Along road facing right 639

☐ Inside Culvert 659 / 660

END VIEW



TOP VIEW



TUE 16-FEB-16

Culvert Checklist

Street Name W 10TH ST

XS FID 820.3 TRIB "B"

☐ Culvert Type and Material CMP

Culvert Shape ROUND

Number of barrels/openings 1

Pier width NONE

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☒ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length 18 FT

Culvert Length 20.2 FT.

Culvert Width 6.0 FT

Culvert Height 6.0' FT

☐ Railing Shape and Size

Railing Length 7.9 FT

Railing Height 1.7 FT

Railing Material CONCRETE

Photos (include photo ID number)

2.5 HEAD WALL
6.0' WINGWALL

☐ Inlet 649

☐ Outlet 648

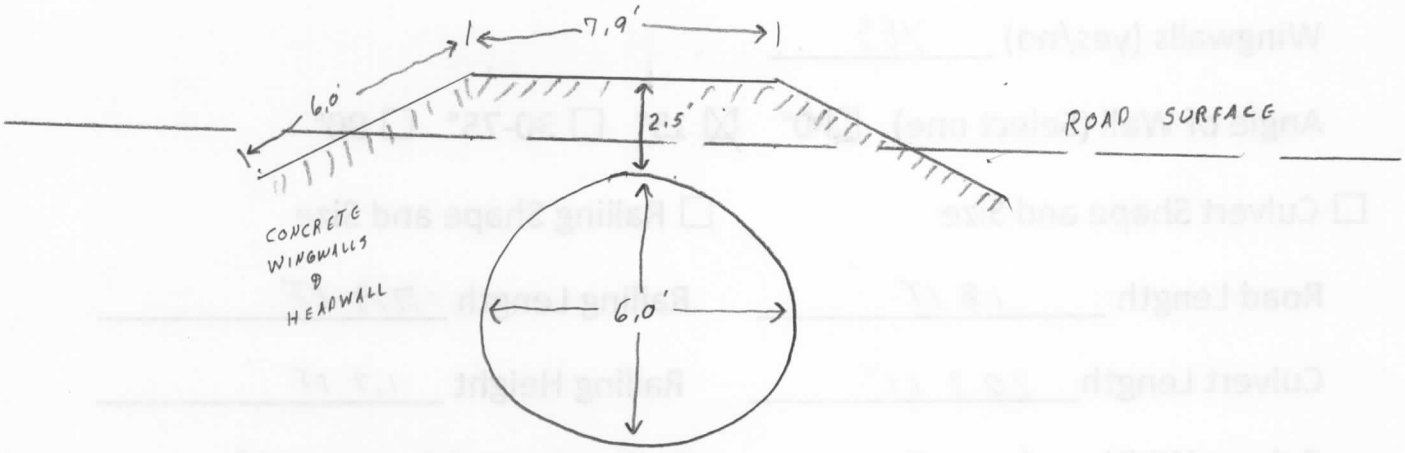
☐ Channel Upstream of the Culvert 646

☐ Channel Downstream of the Culvert 647

☐ Along road facing left 645

☐ Along road facing right 644

☐ Inside Culvert 669 / 670


7.9'
6.0'
2.5'
ROAD SURFACE
CONCRETE
WINGWALLS
&
HEADWALL
6.0'

TUE 16-FEB-16

Culvert Checklist

Street Name W 12TH ST

XS FID 822.3 TRIB "B"

☐ Culvert Type and Material CONCRETE

Culvert Shape ROUND

Number of barrels/openings 2

Pier width 2.5'

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☒ 90°

☐ Culvert Shape and Size

Road Length 32 FT

Culvert Length 82.5 FT

Culvert Width 6.5 FT

Culvert Height 6.5 FT

☐ Railing Shape and Size

Railing Length NONE

Railing Height

Railing Material

Photos (include photo ID number)

1.3 HEADWALL
11.4 WINGWALL
18' CONC HEADWALL

☐ Inlet 678

☐ Outlet 675

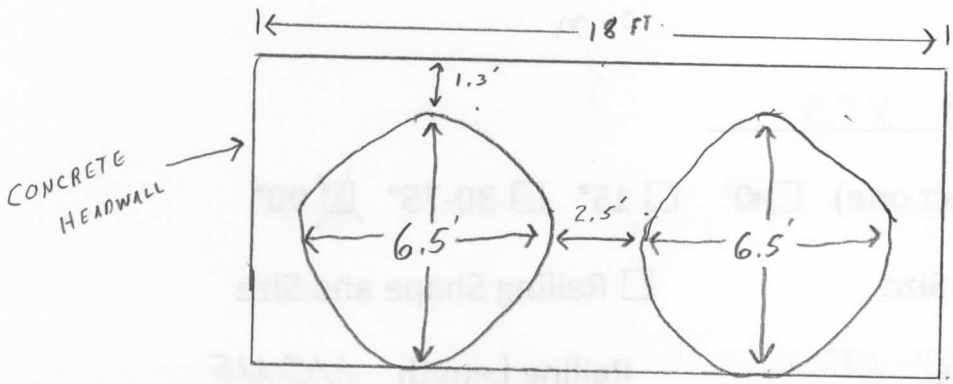
☐ Channel Upstream of the Culvert 673

☐ Channel Downstream of the Culvert 674

☐ Along road facing left 672

☐ Along road facing right 671

☐ Inside Culvert 677 INSIDE RIGHT TUBE
676 INSIDE LEFT TUBE


18 FT
1.3'
CONCRETE HEADWALL
6.5'
2.5'
6.5'

TUE 16-FEB-16

Culvert Checklist

Street Name W 4TH ST

XS FID 902.3 TRIB "C"

☐ Culvert Type and Material CONCRETE

Culvert Shape BOX

Number of barrels/openings 1

Pier width NONE

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☐ 15° ☒ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length 24 FT

Culvert Length 51.5 FT

Culvert Width 10.2 FT

Culvert Height 5.5 FT

☐ Railing Shape and Size

Railing Length NONE

Railing Height

Railing Material

Photos (include photo ID number)

1.8 HEADWALL

☐ Inlet 690

☐ Outlet 687

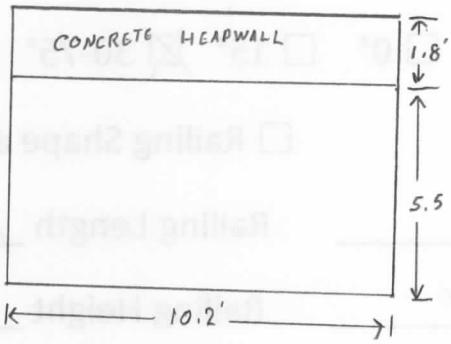
☐ Channel Upstream of the Culvert 689

☐ Channel Downstream of the Culvert 686

☐ Along road facing left 693

☐ Along road facing right 688

☐ Inside Culvert 692 / 691


CONCRETE HEADWALL
1.8'
5.5
10.2'

TUE 16-FEB-16

Bridge Checklist

Street Name COUNTY ROAD "L"

XS FID 910.3 TRIB "C"

☐ Bridge Deck Width 20 FT.

☐ Bridge Length (Abutment to Abutment) 16.0'

☐ Flow Width (Effective Opening) 5.0 FT

STEEL WINGWALLS & ABUTMENTS
STEEL STRINGER
CONCRETE DECK
0.5 STRINGER
1.0 CONC DECK

☐ Railing

Height (From ground to top of railing) 1.8 FT

Length 16.0 FT Material STEEL

☐ Low Steel from Bridge Deck (if accessible) 1.5 FT.

☐ Pier Size** NONE

4 UPRIGHTS

Width _____

Number of Equal Width Piers _____

Distance between Piers _____

Photos (include photo ID number)

☐ Upstream side of Bridge 684

☐ Downstream side of Bridge 685

☐ Channel Upstream of the Bridge 681

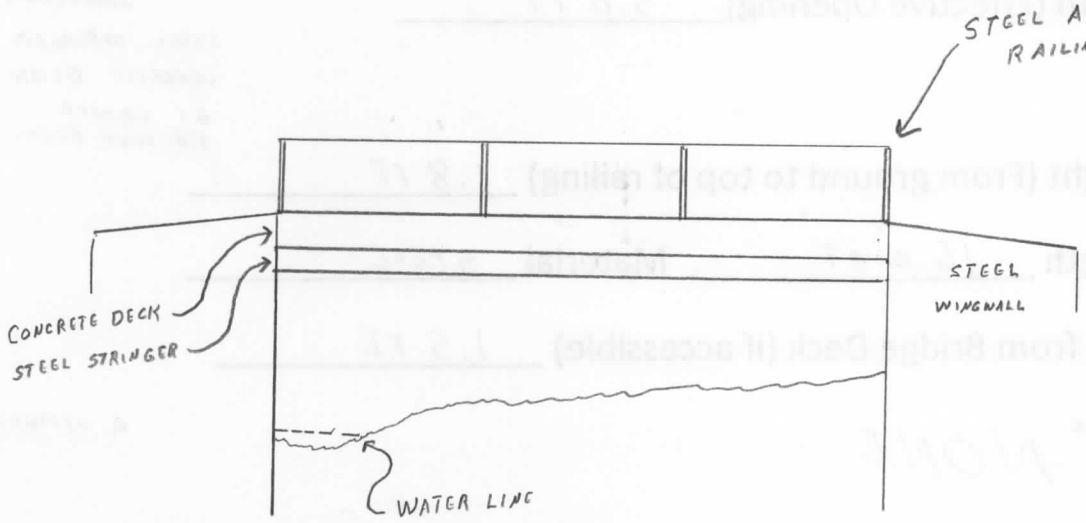
☐ Channel Downstream of the Bridge 682

☐ Along road facing left 683

☐ Along road facing right 679

*Include a sketch of the structure

**Check to ensure all piers are equal width; otherwise measure varying widths


STEEL ANGLE IRON
RAILING
CONCRETE DECK
STEEL STRINGER
STEEL
WINGWALL
WATER LINE

TUESDAY 23-FEB-16

Culvert Checklist

Street Name BN-SF RAILROAD TRACKS

XS FID 826.3 TRIB "B"

☐ Culvert Type and Material WOOD INLET / CONCRETE OUTLET

Culvert Shape BOX

Number of barrels/openings 1

2.2 WOOD HEADWALL - INLET
2.2 CONCRETE HEADWALL - OUTLET

Pier width NONE

☐ Culvert face

Wingwalls (yes/no) YES

WOOD WINGWALLS ON INLET
CONCRETE WINGWALLS ON OUTLET

Angle of Wall (Select one) ☐ 0° ☒ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

TRACK WIDTH
Road Length 26 FT. DOUBLE TRACK

Culvert Length 52.7 FT

Culvert Width INLET 15 FT OUTLET 8 FT

Culvert Height INLET 7 FT OUTLET 6 FT

☐ Railing Shape and Size

NONE
Railing Length _____

Railing Height _____

Railing Material _____

Photos (include photo ID number)

☐ Inlet _____

☐ Outlet _____

☐ Channel Upstream of the Culvert _____

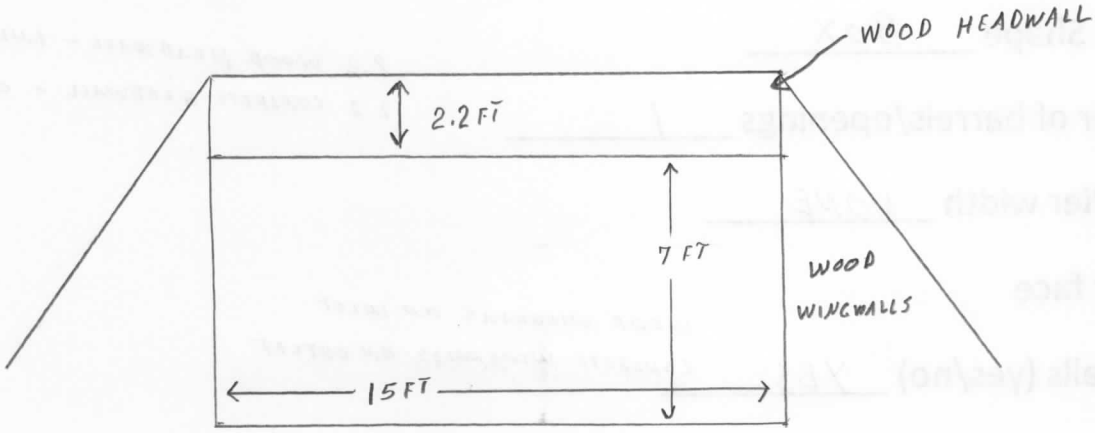
☐ Channel Downstream of the Culvert _____

☐ Along road facing left _____

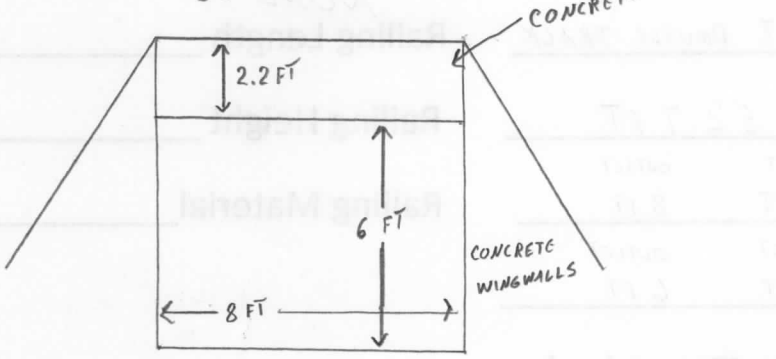
☐ Along road facing right _____

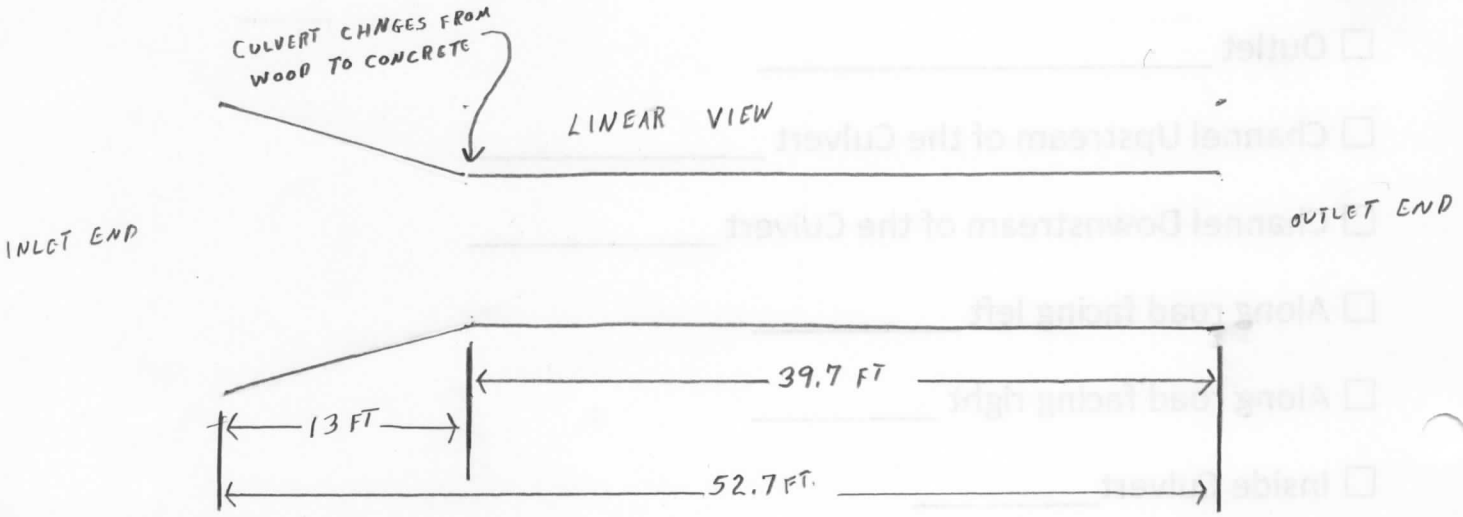
☐ Inside Culvert _____

INLET END (WOOD)



OUTLET END (CONCRETE)





THUR 18-FEB-16

Culvert Checklist

Street Name BN·SF RAILROAD TRACKS

XS FID 916.3 TRIB "C" (INLET)

SHEET 1 OF 2

☐ Culvert Type and Material CMP

Culvert Shape ROUND

Number of barrels/openings 1

Pier width NONE

☐ Culvert face

Wingwalls (yes/no) NO

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

~~Road Length~~ TRACK WIDTH 26 FT. DOUBLE TRACK

Culvert Length 72 FT ROUND CMP 42 FT CONCRETE BOX ~~114 FT. TOTAL LENGTH~~

Culvert Width 6.9 FT. DIA

Culvert Height 6.9 FT. DIA

☐ Railing Shape and Size

Railing Length NONE

Railing Height

Railing Material

Photos (include photo ID number)

☐ Inlet 694

☐ Outlet

☐ Channel Upstream of the Culvert 695

☐ Channel Downstream of the Culvert

☐ Along road facing left

☐ Along road facing right

☐ Inside Culvert 700

Culvert Checklist

☐ Culvert Type and Material _____

Culvert Shape _____

Number of barrels/openings _____

Pier width _____

☐ Culvert face

Wingwalls (yes/no) _____

Angle of Wall (Select one) ☐ 0° ☐ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

Road Length _____

Culvert Length _____

Culvert Width _____

Culvert Height _____

Photos (Include photo ID number)

☐ Inlet _____

☐ Outlet _____

☐ Channel Upstream of the Culvert _____

☐ Channel Downstream of the Culvert _____

☐ Along road facing left _____

☐ Along road facing right _____

☐ Inside Culvert _____

☐ Railing Shape and Size

Railing Length _____

Railing Height _____

Railing Material _____

Culvert Checklist

Street Name BN-SF RAILROAD TRACKS

XS FID 916.3 TRIB "C" (OUTLET)

SHEET 2 OF 2

☐ Culvert Type and Material CONCRETE

Culvert Shape BOX

Number of barrels/openings 1

Pier width NONE

☐ Culvert face

Wingwalls (yes/no) YES

Angle of Wall (Select one) ☐ 0° ☒ 15° ☐ 30-75° ☐ 90°

☐ Culvert Shape and Size

~~Road Length~~ TRACK WIDTH 26 FT. DOUBLE TRACK

Culvert Length 72 FT. ROUND CMP + 42 FT. CONCRETE BOX = 114 FT. TOTAL LENGTH

Culvert Width 8.0 FT.

Culvert Height 6.0 FT.

☐ Railing Shape and Size

Railing Length NONE

Railing Height

Railing Material

2.4 FT CONCRETE HEADWALL

Photos (include photo ID number)

☐ Inlet

☐ Outlet 704

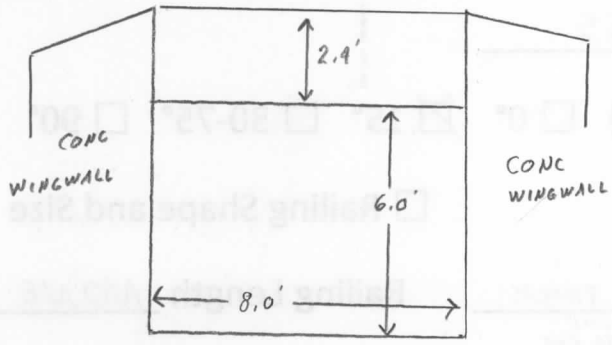
☐ Channel Upstream of the Culvert

☐ Channel Downstream of the Culvert 703

☐ Along road facing left

☐ Along road facing right

☐ Inside Culvert 705


2.4'
CONC
WINGWALL
CONC
WINGWALL
6.0'
8.0'

ATTACHMENT 2

PHOTOGRAPH LIST

York

1/31/16

	Section	Looking	.jpg
	482		
1	~~482~~	DS	486
2	482	US	487
3	480	DS	488
4	480	US	489
5	476	DS	490
6	476	US	491
7	474	DS	492
8	474	US	493
9	472	DS	494
10	472	US	495
	460	DS	496
	460	US	497
	900	DS	498
	900	US	499
	442	DS	500
	442	US	501
	438	DS	502
	438	US	503
	434	DS	504
	434	US	505
	700	DS	506
	700	US	507
	430	DS	508
	430	US	509

426	DS	510
426	US	511
424	DS	512
424	US	513
422	DS	514
422	US	515
420	DS	516
420	US	517
418	DS	518
418	US	519
416	DS	520
416	US	521
~~500~~	~~DS~~	
~~500~~	~~US~~	
414	DS	522
414	US	523
410	DS	524
410	US	525
408	DS	526
408	US	527
406	DS	528
406	US	529
404	DS	530
404	US	531
400	DS	532
400	US	533

Red York 2-1-16

504	DS	1
504	US	2
502	DS	3
502	US	4
500	DS	5
500	US	6
508	US	7
508	DS	8
510	US	9
510	DS	10
514	US	11
514	DS	12
518	US	13
518	DS	14
520	US	15
520	DS	16
524	US	17
524	DS	18
526	US	19
526	DS	20
528	US	21
528	DS	22
536	US	23
536	DS	24
540	US	25
540	DS	26

606	US	27
606	DS	28
604	US	29
604	DS	30
603	DS	31
603	US	32
600	DS	33
600	US	34
702	DS	35
702	US	36
706	US	37
706	DS	38
708	US	39
708	DS	40
710	US	41
710	DS	42
716	US	43
716	DS	44

Project: York Floodplain **Date:** 2-18-16

Exp. #	X-Sec. #	Description
650	504	Upstream
651	504	Downstream
652	502	Upstream
653	502	Downstream
654	500	Upstream
655	500	Downstream