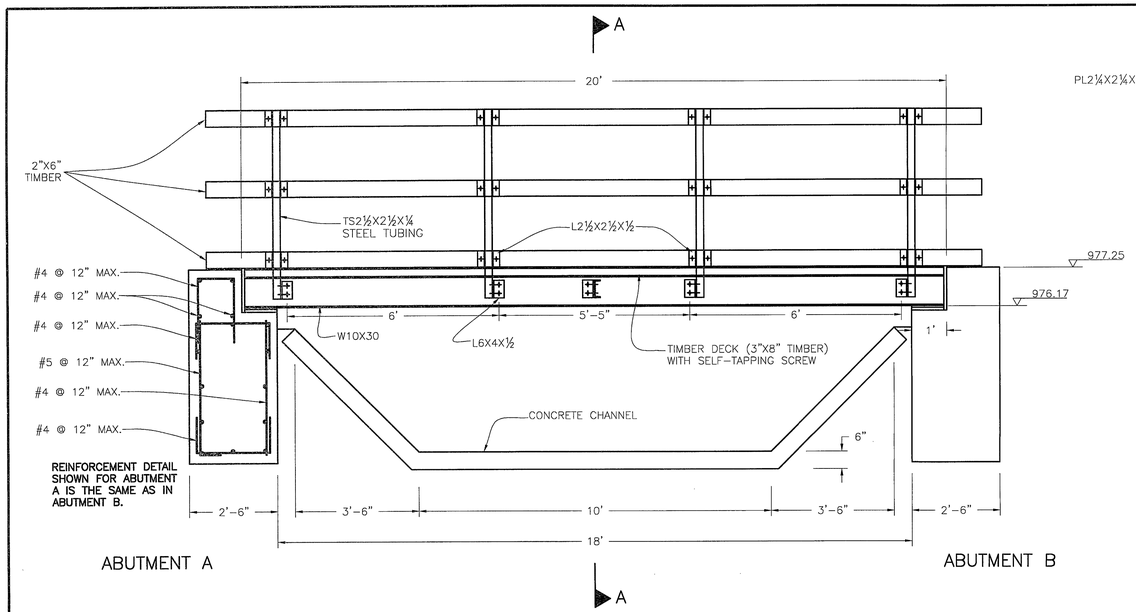
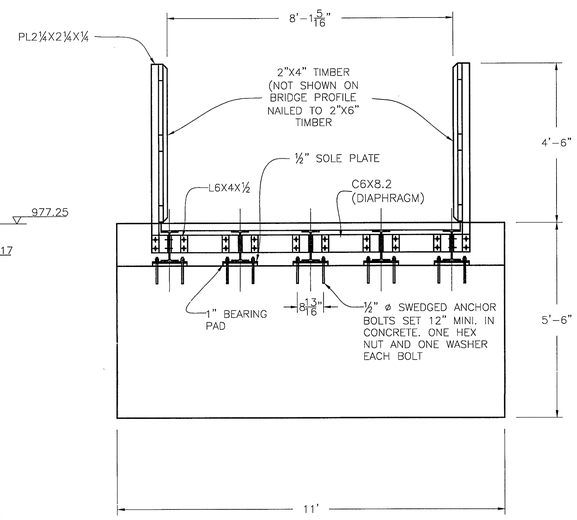


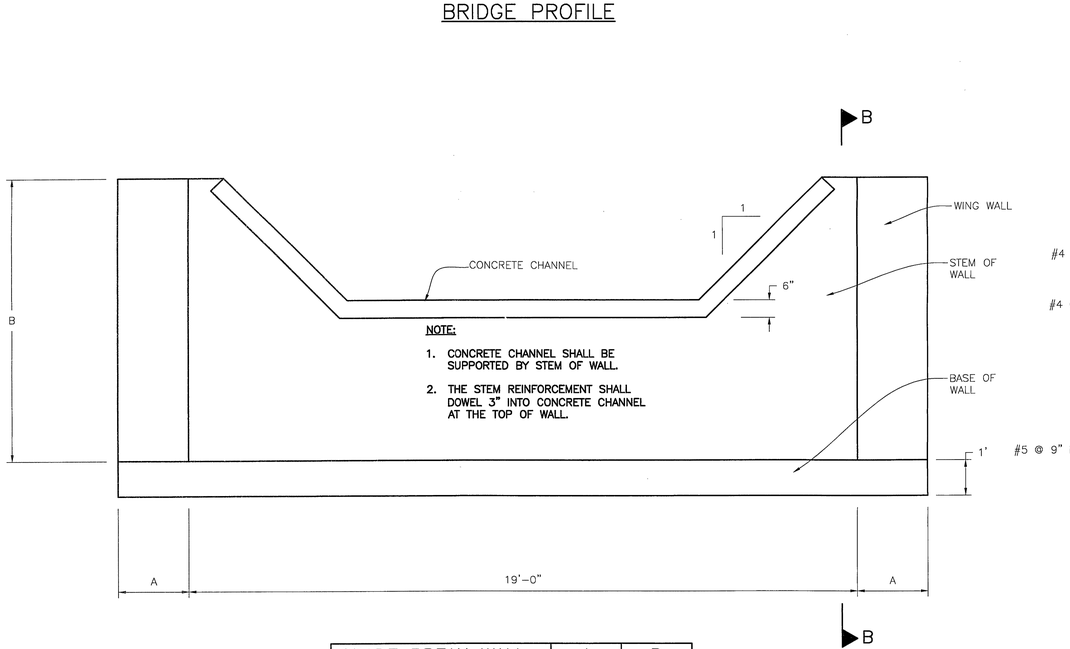
BRIDGE PROFILE



SECTION A–A

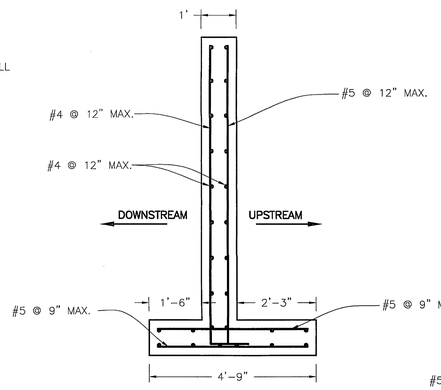
GENERAL NOTES

1. THESE PLANS ARE INCOMPLETE UNLESS ACCOMPANIED BY THE TECHNICAL SPECIFICATION INCLUDED IN THE CONTRACT DOCUMENT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF ROANOKE BEFORE BEGINNING CONSTRUCTION.
3. ANY DEVIATIONS FROM THE APPROVED PLANS AND/OR SPECIFICATION MUST BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO THE START OF THE AFFECTED PORTION OF WORK.
4. ALL EXCAVATION AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION. ALL EXCAVATIONS SHALL BE CLEAN AND DRY PRIOR TO THE PLACEMENT OF ANY CONCRETE.
5. ALL FORMWORK SHALL BE IN ACCORDANCE WITH SECTION 03280 OF THE TECHNICAL SPECIFICATION.
6. ALL STRUCTURAL STEEL, INCLUDING BEARINGS, SHALL BE ASTM A709 GRADE 50. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH SECTION 05300 OF THE TECHNICAL SPECIFICATION.
7. CONCRETE FOR THE PROPOSED CONCRETE CHANNEL, ABUTMENT AND GRADE BREAK WALL SHALL BE VDOT CLASS A3. ALL CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 03300 OF THE TECHNICAL SPECIFICATION.
8. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾".
9. DEFORMED REINFORCED BARS SHALL CONFORM TO ASTM A615, GRADE 60, AND BE IN CONFORMANCE WITH SECTION 03200 OF THE TECHNICAL SPECIFICATION.
10. CONTRACTOR SHALL SUBMIT SHOP DETAILS OF THE REINFORCING STEEL FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH SECTION 03200 OF THE TECHNICAL SPECIFICATION AND THE PLANS HEREIN.
11. CONCRETE COVER FOR REINFORCEMENT SHALL BE 3".
12. THE MAXIMUM SPACING FOR CONCRETE CHANNEL EXPANSION JOINT SHALL BE 90 FEET.
13. FOR CURTAIN WALL ON CONCRETE CHANNEL, SEE DETAILS BELOW.
14. 6X6 – W2.1XW2.1 WELDED WIRE FABRIC SHALL BE UTILIZED FOR THE CONSTRUCTION OF THE CONCRETE CHANNEL.
15. ALL TIMBER MEMBERS SHALL BE SOUTHERN PINE, GRADED NO.2 OR BETTER AND SURFACED FOUR SIDES (S4S).
16. ALL TIMBER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) CONFORMING TO AWPA STANDARD P5 TO A MINIMUM RETENTION RATE OF 0.4 POUNDS PER CUBIC FOOT.
17. ALL MEMBERS SHALL BE DRIED TO A MOISTURE CONTENT OF 19 PERCENT OR LESS AFTER TREATMENT.
18. ALL ENDS OF TIMBER SHALL BE CUT SQUARE.

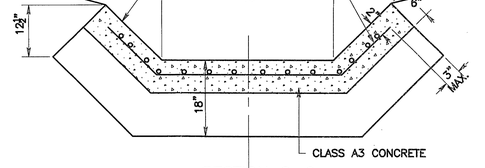


GRADE BREAK WALL	A	B
1	4'–7½"	7'–5½"
2	1'–9½"	8'–2"
3	1'–9½"	9'–9"
4	0'	6'–11½"
5	0'	5'–5½"

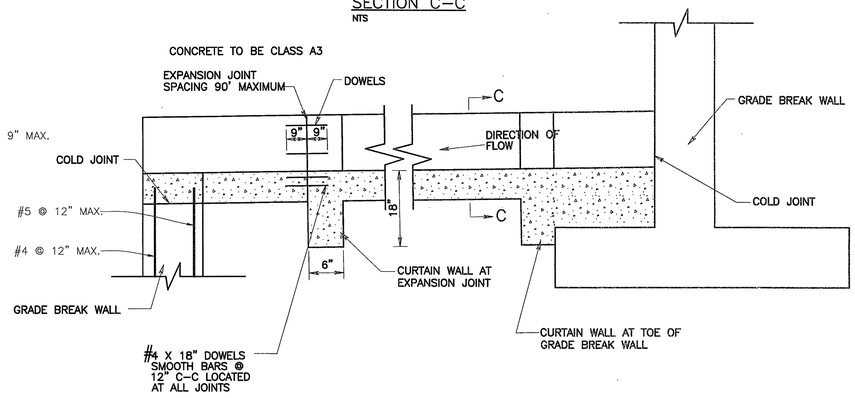
TYPICAL GRADE BREAK WALL ELEVATION
(DOWNSTREAM LOOKING UPSTREAM)



SECTION B–B



SECTION C–C
NTS



ELEVATION
NTS

CONCRETE CHANNEL DETAILS
SHOWING GRADE BREAK WALL AND
CHANNEL CONNECTION

IF THIS DRAWING IS A REDUCTION GRAPHIC SCALE MUST BE USED

2' 0' 2'

SCALE 1" = 2'

ROANOKE
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DESIGNED: JJK
DRAWN: JJK
CHECKED: PCS

COMMONWEALTH OF VIRGINIA
JOSEPHUS M. JOHNSON-KOROMA
Lic. No. 46165
PROFESSIONAL ENGINEER

REV.	DATE:	DESCRIPTION

DATE: 08/02/13

SCALE: AS SHOWN
24"x36" SHEET

RCIT/HERITAGE POINT EROSION REPAIR
BRIDGE REPLACEMENT AND GRADE BREAK WALL DETAILS
CITY OF ROANOKE, VIRGINIA

APPROVED
AUG 04 2014

SHEET U4

PLAN NO. 6743