

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	DISPOSITION OF UTILITIES, GENERAL NOTES AND SUGGESTED SEQUENCE OF CONSTRUCTION
3-4	SUMMARY OF QUANTITIES
5-12	MITIGATION DETAILS FOR STRUCTURE NO. 055-0006
13-19	MITIGATION DETAILS FOR STRUCTURE NO. 078-0003
20-28	MITIGATION DETAILS FOR STRUCTURE NO. 090-0087
29-36	MITIGATION DETAILS FOR STRUCTURE NO. 090-0092 & 0100
37-38	DEWATERING SYSTEM DETAILS

GENERAL NOTES

- Plan dimensions and details relative to the existing structure (including High Water Elevation) have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- All information shown in each structure's Waterway Information Table was provided by the Illinois Department of Transportation.
- Commitments are not to be altered without the written approval of all parties to which the commitment was made.
- The Contractor shall be responsible for diverting the water flow from the construction area of each site. The Contractor may use either method of dewatering as described in the Dewatering Special Provision.
- During site preparation, areas below the final grade shall be brought to grade by placing compacted layers of Granular Subbase Material, Type C; areas of soft or otherwise unsuitable subgrade soils shall be excavated and replaced with compacted layers of Granular Subbase Material, Type C. Removal and replacement of unsuitable material shall be as directed by the Engineer and will be paid for in accordance to Article 109.04 (Force Account Basis) of the Standard Specifications. An assumed quantity for Granular Subbase Material, Type C, is included as part of an applicable structure's mitigation details.
- Due to the changing nature of the streambeds at the structures being protected, the cross-sections used at each structure may not be representative of existing field conditions. Layout of scour protection systems may be varied in the field to suit ground conditions as directed by the engineer.
- All areas disturbed during construction shall be graded, fertilized, seeded and mulched as directed by the Engineer. Sections 250 and 251 of the Standard Specifications shall govern this work.
- It is anticipated that the majority of this work will not require highway traffic lane closures. Lane closures will be permitted on a limited basis and are restricted to one-lane daytime only closures in accordance to IDOT Standards 701201 and 701301.
- The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown --- all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	2
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

* D4 SCOUR MITIGATION 2011

SUGGESTED SEQUENCE OF CONSTRUCTION

- Install dewatering system and divert water flow from the construction area.
- Excavate to the lines, grades, contours, and dimensions shown. The prepared area shall be inspected and approved by the Engineer before further work can take place.
- Install filter fabric on the graded surfaces as shown on the drawings.
- Install site specific scour countermeasures. See detail sheets for specific installation procedures.
- Remove dewatering system. Grade and seed ground disturbed during construction.

Disposition of Utilities

Structure Number	County	Route	Crossing	Utility	Owner	Location	Action
055-0006	MCDONOUGH	N. of US 67	CAMP CREEK	12.5KV Overhead	AmerenIllinois	INDUSTRY	OH. Working Clearance

COMMITMENTS

Fifteen (15) days prior to commencing work on S.N. 055-0006, the Contractor shall notify the owners. While accessing Camp Creek at this location, no trees larger than 12" in diameter shall be removed. Owners are David & Mary Voss, (309) 254-3562 or 255-4274.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISPOSITION OF UTILITIES,
GENERAL NOTES AND SUGGESTED
CONSTRUCTION SEQUENCING
SECTION D4 SCOUR MITIGATION 2011
VARIOUS ROUTES, SECTIONS
AND COUNTIES

SUMMARY OF QUANTITIES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	3
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

* D4 SCOUR MITIGATION 2011

100% STATE

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE-0014		
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	MCDONOUGH COUNTY	PUTNAM COUNTY	TAZEWELL COUNTY
20300100	CHANNEL EXCAVATION	CU YD	105	53	52	0
25000300	SEEDING CLASS 3	ACRE	1.0	0.2	0.2	0.6
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	18	18	54
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	18	18	54
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	18	18	54
25100630	EROSION CONTROL BLANKET	SQ YD	317	90	90	137
28000400	PERIMETER EROSION BARRIER	FOOT	630	140	100	390
28100209	STONE RIPRAP, CLASS A5	TONS	5050	1945	689	2416
28200200	FILTER FABRIC	SQ YD	2703	997	316	1390
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	30	20	10	0
67100100	MOBILIZATION	L SUM	1.0	0.2	0.2	0.6
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	0.5	0.5	0
X0301852	DEWATERING STRUCTURE NO. 1	EACH	1	1	0	0
X0301853	DEWATERING STRUCTURE NO. 2	EACH	1	0	1	0
X0301854	DEWATERING STRUCTURE NO. 3	EACH	1	0	0	1
X0322587	CONSTRUCTION ACCESS	EACH	3	1	1	1

SCHEDULE OF QUANTITIES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	4
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

* D4 SCOUR MITIGATION 2011

SCHEDULE OF QUANTITIES			STRUCTURE NUMBER				
CODE NO.	ITEM	UNIT	055-0006	078-0003	090-0087	090-0092	090-0100
20300100	CHANNEL EXCAVATION	CU YD	53	52	0	0	0
25000300	SEEDING CLASS 3	ACRE	0.2	0.2	0.6	0	0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18	18	54	0	0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	18	18	54	0	0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18	18	54	0	0
25100630	EROSION CONTROL BLANKET	SQ YD	90	90	137	0	133
28000400	PERIMETER EROSION BARRIER	FOOT	140	100	299	19	72
28100209	STONE RIPRAP, CLASS A5	TONS	1945	689	1850	117	449
28200200	FILTER FABRIC	SQ YD	997	316	1058	69	263
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	20	10	0	0	0
67100100	MOBILIZATION	L SUM	0.2	0.2	0.2	0.2	0.2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	0.5	0.5	0	0	0
X0301852	DEWATERING STRUCTURE NO. 1	EACH	1	0	0	0	0
X0301853	DEWATERING STRUCTURE NO. 2	EACH	0	1	0	0	0
X0301854	DEWATERING STRUCTURE NO. 3	EACH	0	0	1	0	0
X0322587	CONSTRUCTION ACCESS	EACH	1	1	0	0	1
X0323689	REMOVE EXISTING EROSION CONTROL	L SUM	0	0	0	0.5	0.5

QUANTITIES NOT OTHERWISE SHOWN

ITEM	UNIT	TOTAL	DESCRIPTION
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	SEE GENERAL NOTE #8

ITEM	UNIT	TOTAL	LOCATION
SEEDING, CLASS 3	ACRE	1.0	JOBSITE
NITROGEN FERTILIZER NUTRIENT	POUND	90	JOBSITE
PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	JOBSITE
POTASSIUM FERTILIZER NUTRIENT	POUND	90	JOBSITE
EROSION CONTROL BLANKET	SQ YD	450	JOBSITE
MOBILIZATION	L SUM	1	JOBSITE

Bench Mark: Chiseled "X" on top of NE wingwall - Elev.=606.87
 Existing Structure: Constructed in 1924 as SBI Route 3, Section 40-B, originally consisted of single span reinforced concrete tee beams supported on closed abutments with wingwalls. The structure was widened in 1971 with two 36" concrete deck beams on each side. Wide flange beams were added between the concrete tee beams in 1997.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	*	VARIOUS	38	5
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

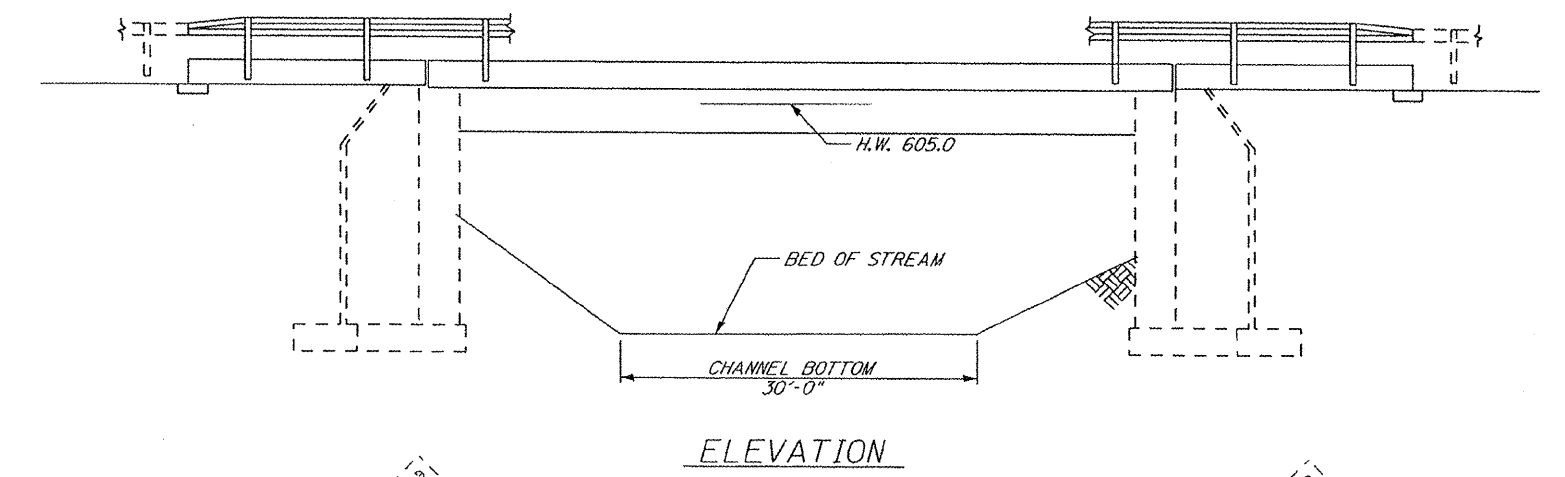
*** D4 SCOUR MITIGATION 2011**

INDEX OF SHEETS

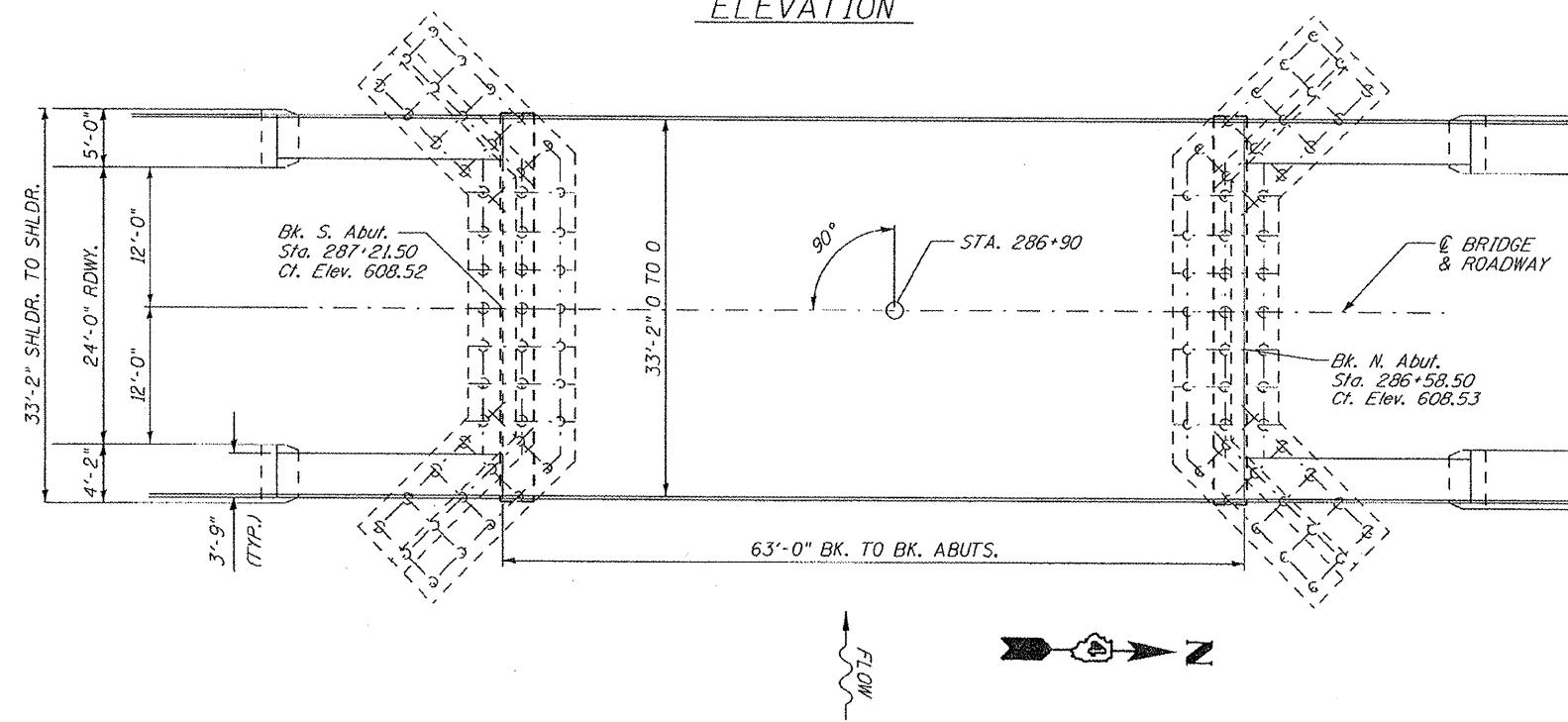
SHEET NUMBER	DESCRIPTION
1	GENERAL PLAN AND ELEVATION, SUMMARY OF QUANTITIES, LOCATION MAP
2	R.O.W. PLAN
3	SITE GRADING PLAN
4	SITE DIMENSION PLAN
5	SITE PROFILE
6-8	CROSS SECTIONS

BILL OF MATERIALS

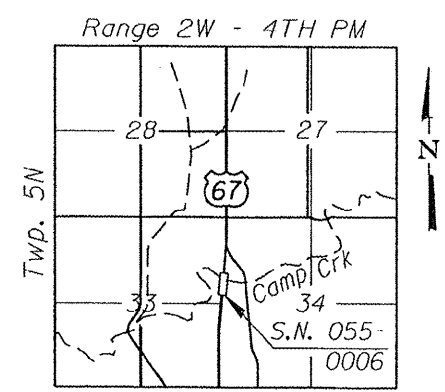
ITEM	UNIT	TOTAL
CHANNEL EXCAVATION	CU YD	53
STONE RIPRAP, CLASS A5	TON	1945
FILTER FABRIC	SQ YD	997
SUB-BASE GRANULAR MATERIAL, TYPE C	CU YD	20
DEWATERING STRUCTURE NO. 1	EACH	1
CONSTRUCTION ACCESS	EACH	1



ELEVATION



PLAN
EXISTING BRIDGE



LOCATION SKETCH

WATERWAY/SCOUR INFORMATION

DESIGN FLOOD	100 YRS
DRAINAGE AREA	36.3 SQ MI
FLOW	4,043 CFS
FLOW DEPTH	11.5 FT
CONTRACTION SCOUR DEPTH	21 FT

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 S.N. 055-0006
 F.A.P. 310 (US 67)
 OVER CAMP CREEK
 MCDONOUGH COUNTY

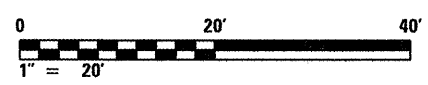
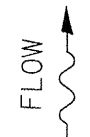
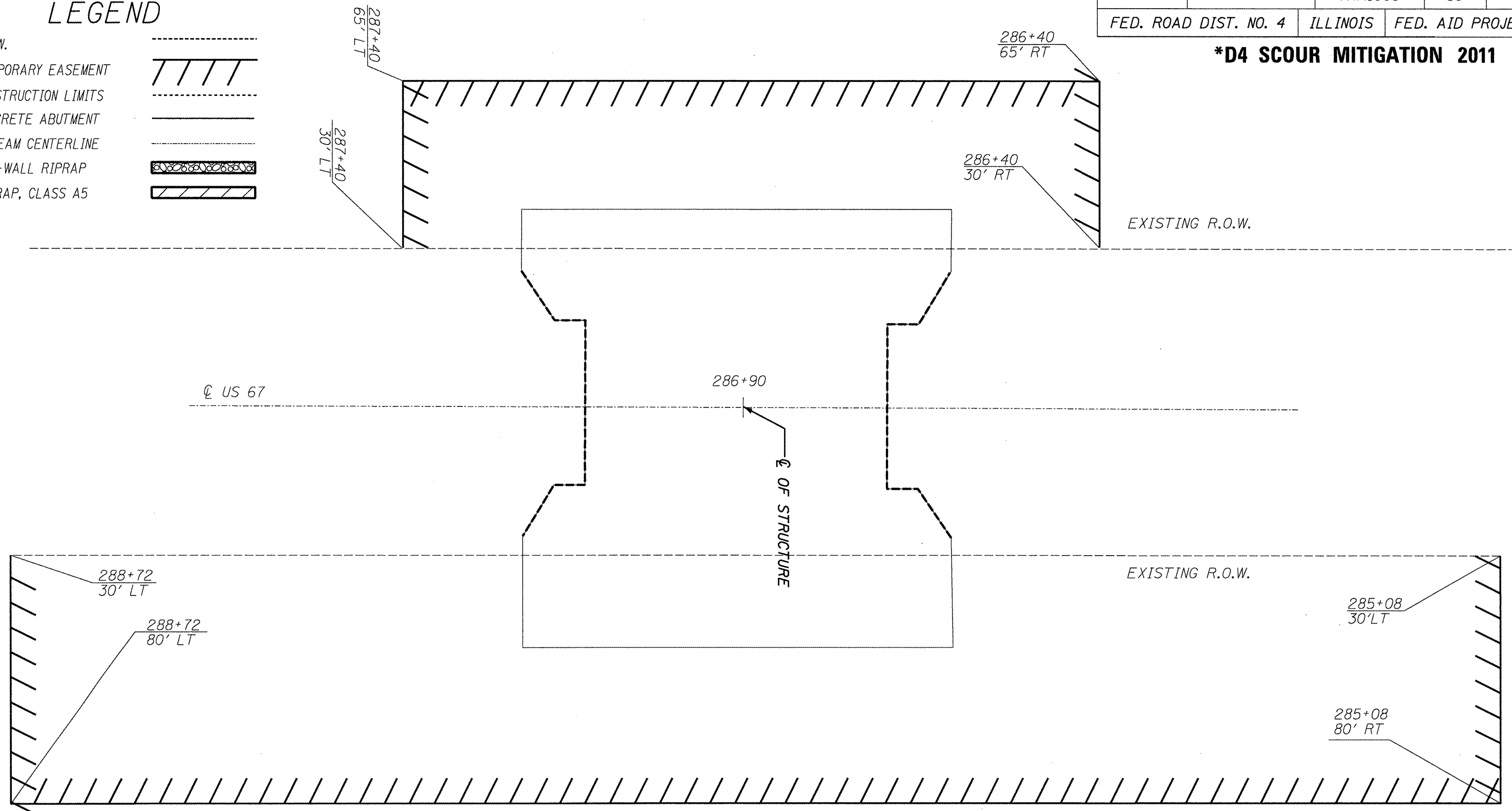


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	*	VARIOUS	38	6
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

***D4 SCOUR MITIGATION 2011**

LEGEND

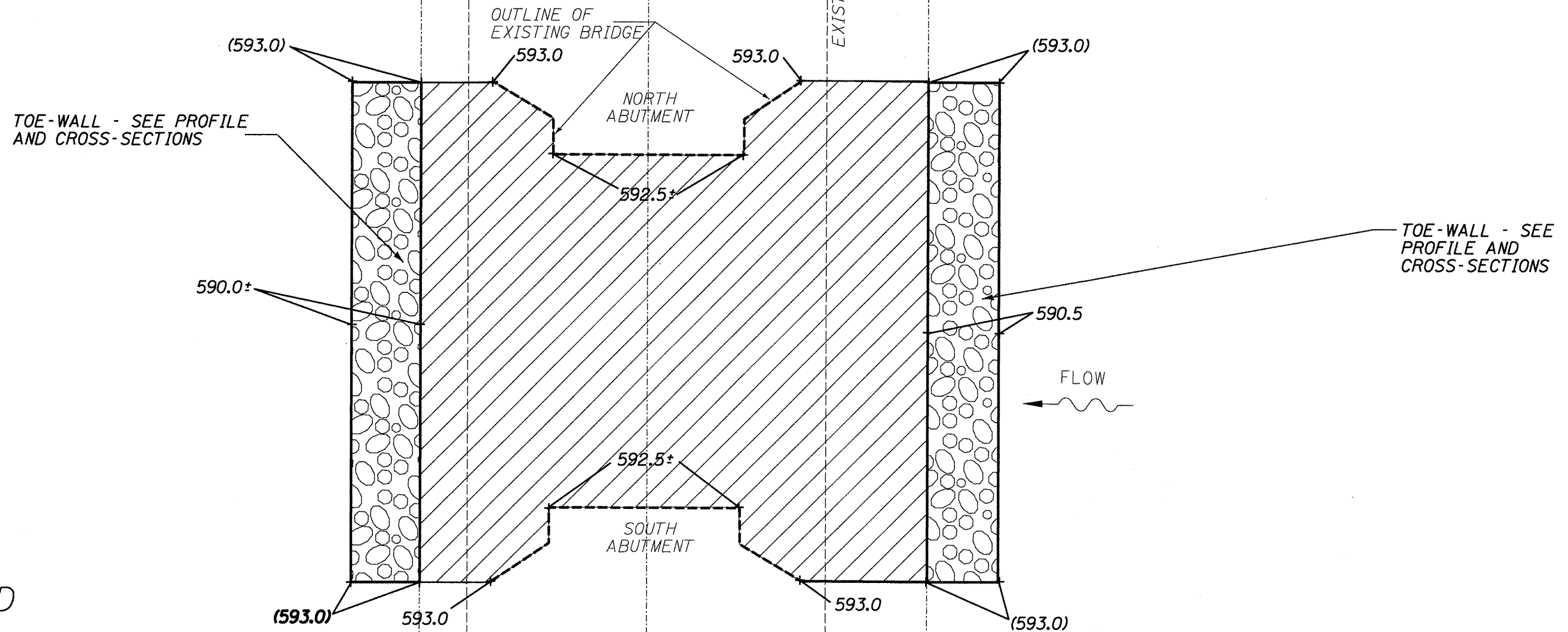
- R.O.W.
- TEMPORARY EASEMENT
- CONSTRUCTION LIMITS
- CONCRETE ABUTMENT
- STREAM CENTERLINE
- TOE-WALL RIPRAP
- RIPRAP, CLASS A5



ILLINOIS DEPARTMENT OF TRANSPORTATION
 R.O.W. PLAN
 S.N. 055-0006
 F.A.P. 310 (US 67)
 OVER CAMP CREEK
 MCDONOUGH COUNTY
 SHEET 2 OF 8
 SCALE: 1" = 20'

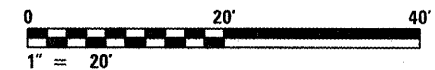
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	*	VARIOUS	38	7
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



LEGEND

- EXISTING R.O.W.
- PROPOSED SPOT ELEVATION 592.5
- CONCRETE ABUTMENT
- STREAM CENTERLINE
- RIPRAP TOE-WALL
- STONE RIPRAP, CL. A5



ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED SITE PLAN
 S.N. 055-0006
 F.A.P. 310 (US 67)
 OVER CAMP CREEK
 MCDONOUGH COUNTY
 SHEET 3 OF 8

SCALE: 1" = 20'

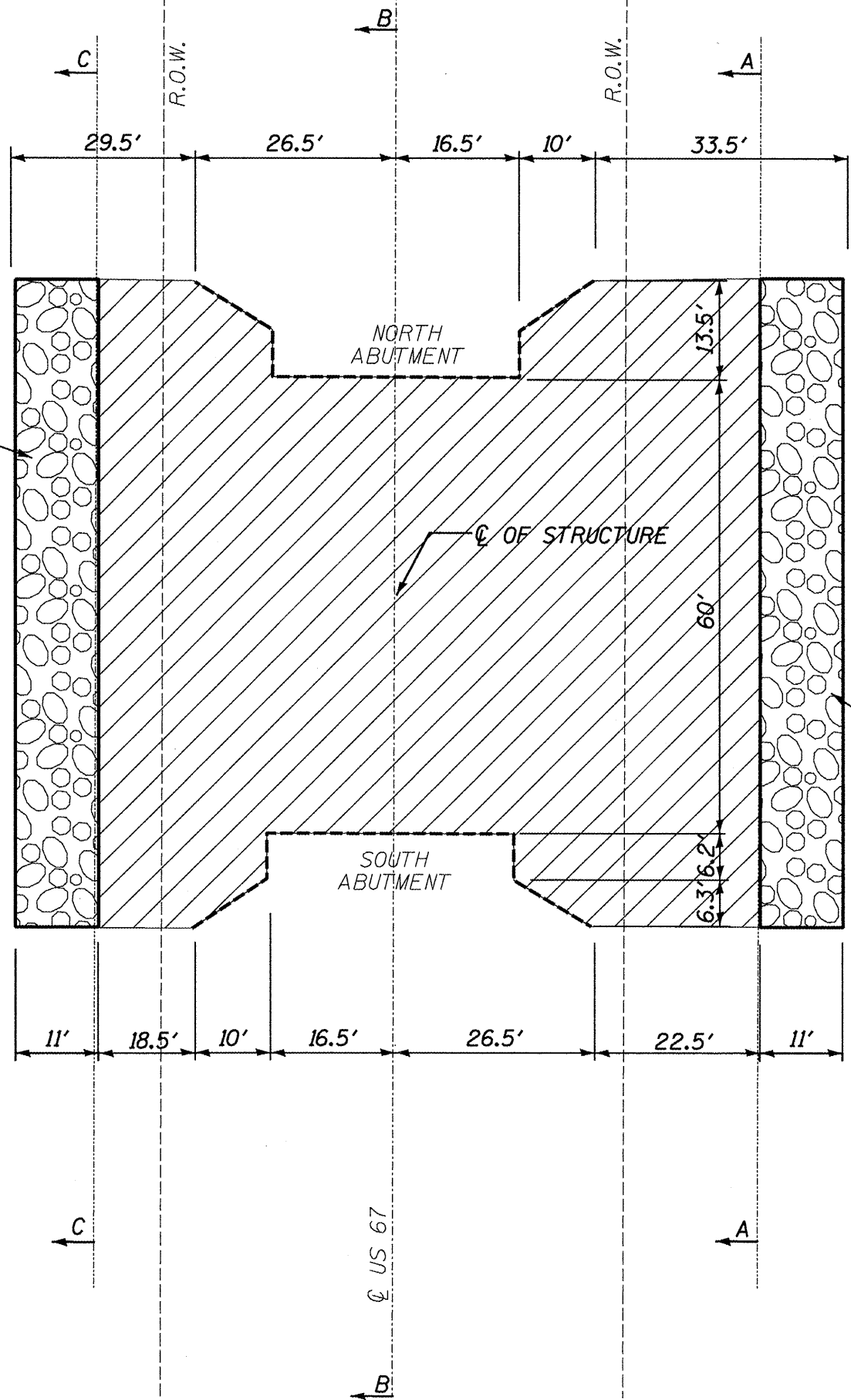
NOTE: SPOT ELEVATIONS ENCLOSED BY PARENTHESES INDICATED TOP OF RIPRAP BURIED BY EARTH BACKFILL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	*	VARIOUS	38	8
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

***D4 SCOUR MITIGATION 2011**

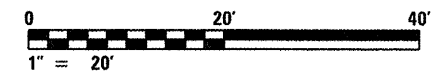
TOE-WALL, STONE
RIPRAP, CL. A5
- SEE CROSS-SECTIONS

TOE-WALL, STONE
RIPRAP, CL. A5
- SEE CROSS-SECTIONS



LEGEND

- R.O.W.
- CONCRETE ABUTMENT
- STREAM CENTERLINE
- TOE-WALL RIPRAP
- STONE RIPRAP, CL. A5

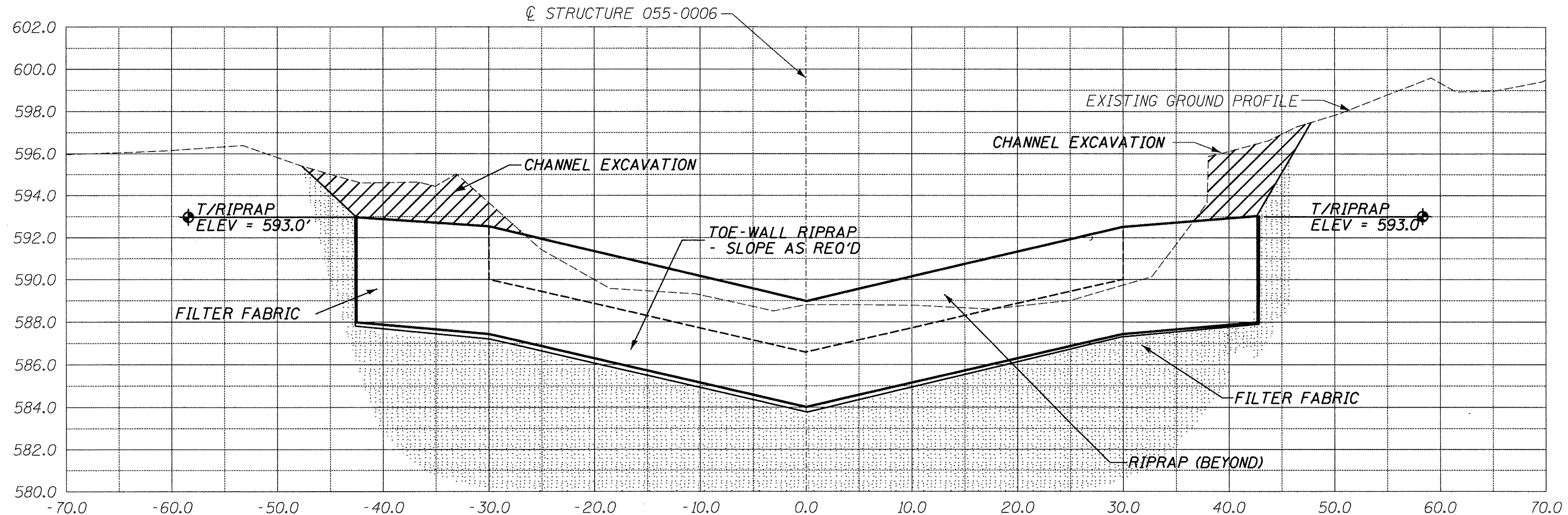


ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED SITE DIMENSION PLAN
 S.N. 055-0006
 F.A.P. 310 (US 67)
 OVER CAMP CREEK
 MCDONOUGH COUNTY
 SHEET 4 OF 8

SCALE: 1" = 20'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	10
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

***D4 SCOUR MITIGATION 2011**

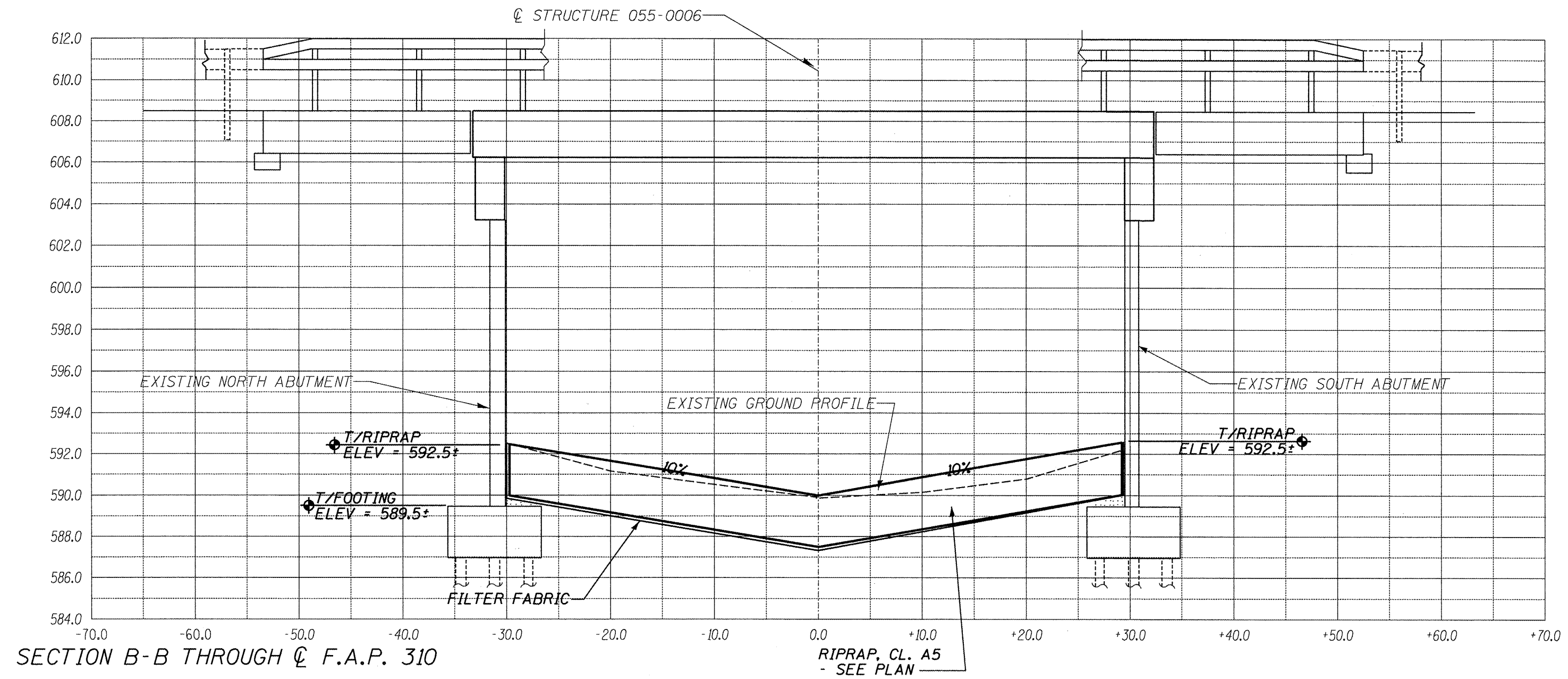


SECTION A-A THROUGH WEST RIPRAP TOE-WALL

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 055-0006
 F.A.P. 310 (US 67)
 OVER CAMP CREEK
 MCDONOUGH COUNTY
 SHEET 6 OF 8
 SCALE: VERT. 1" = 5' HORIZ. 1" = 10'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	11
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

***D4 SCOUR MITIGATION 2011**

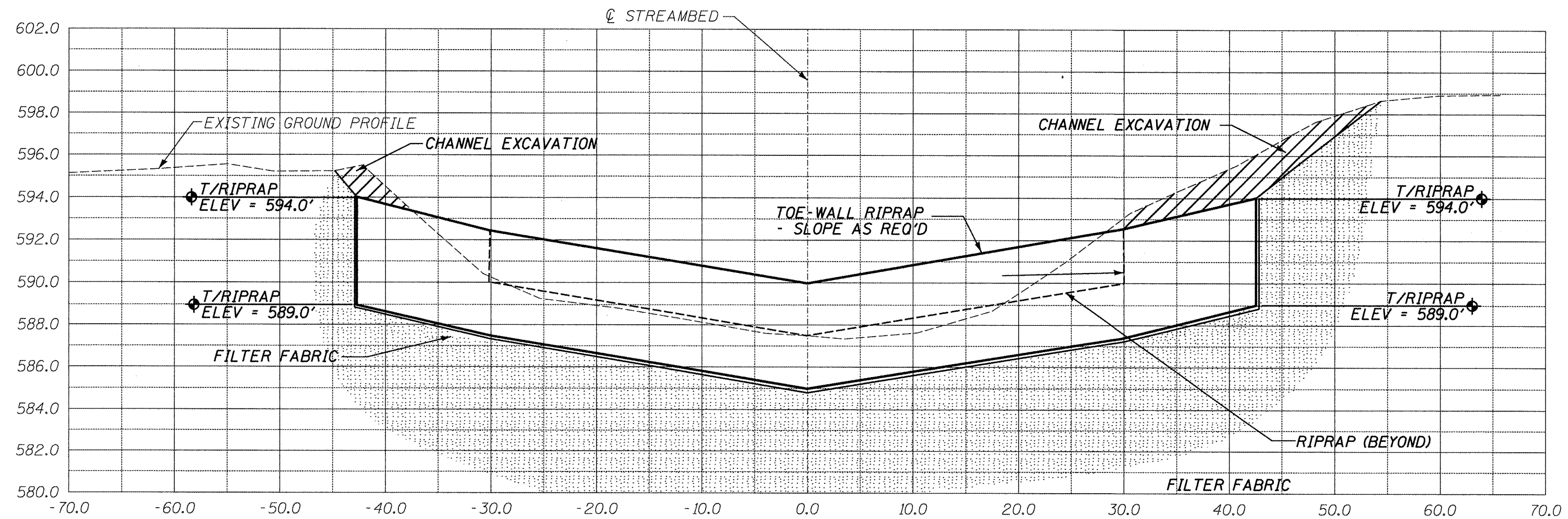


ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 055-0006
 F.A.P. 310 (US 67)
 OVER CAMP CREEK
 MCDONOUGH COUNTY

SHEET 7 OF 8
 SCALE: VERT. 1" = 5' HORIZ. 1" = 10'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	12
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

***D4 SCOUR MITIGATION 2011**



SECTION C-C THROUGH EAST RIPRAP TOE-WALL

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 055-0006
 F.A.P. 310 (US 67)
 OVER CAMP CREEK
 MCDONOUGH COUNTY
 SHEET 8 OF 8
 SCALE: VERT. 1" = 5' HORIZ. 1" = 10'

BENCHMARK: PAINTED TRIANGLE ON TOP OF NW CORNER OF NORTH ABUTMENT
ELEV = 471.91

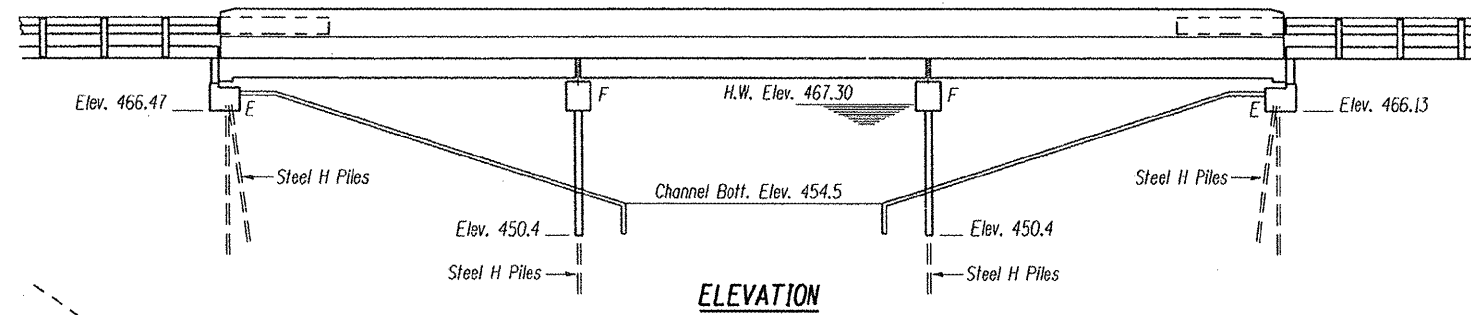
EXISTING STRUCTURE: SN 078-0003 IS A THREE-SPAN R.C. SLAB BRIDGE ON OPEN ABUTMENTS.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	13
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**

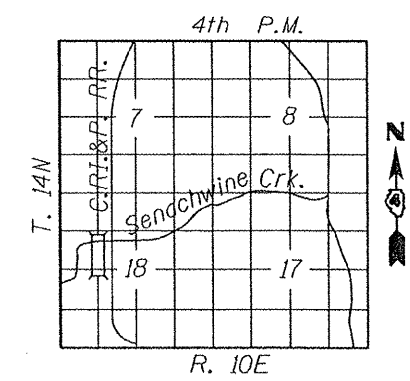
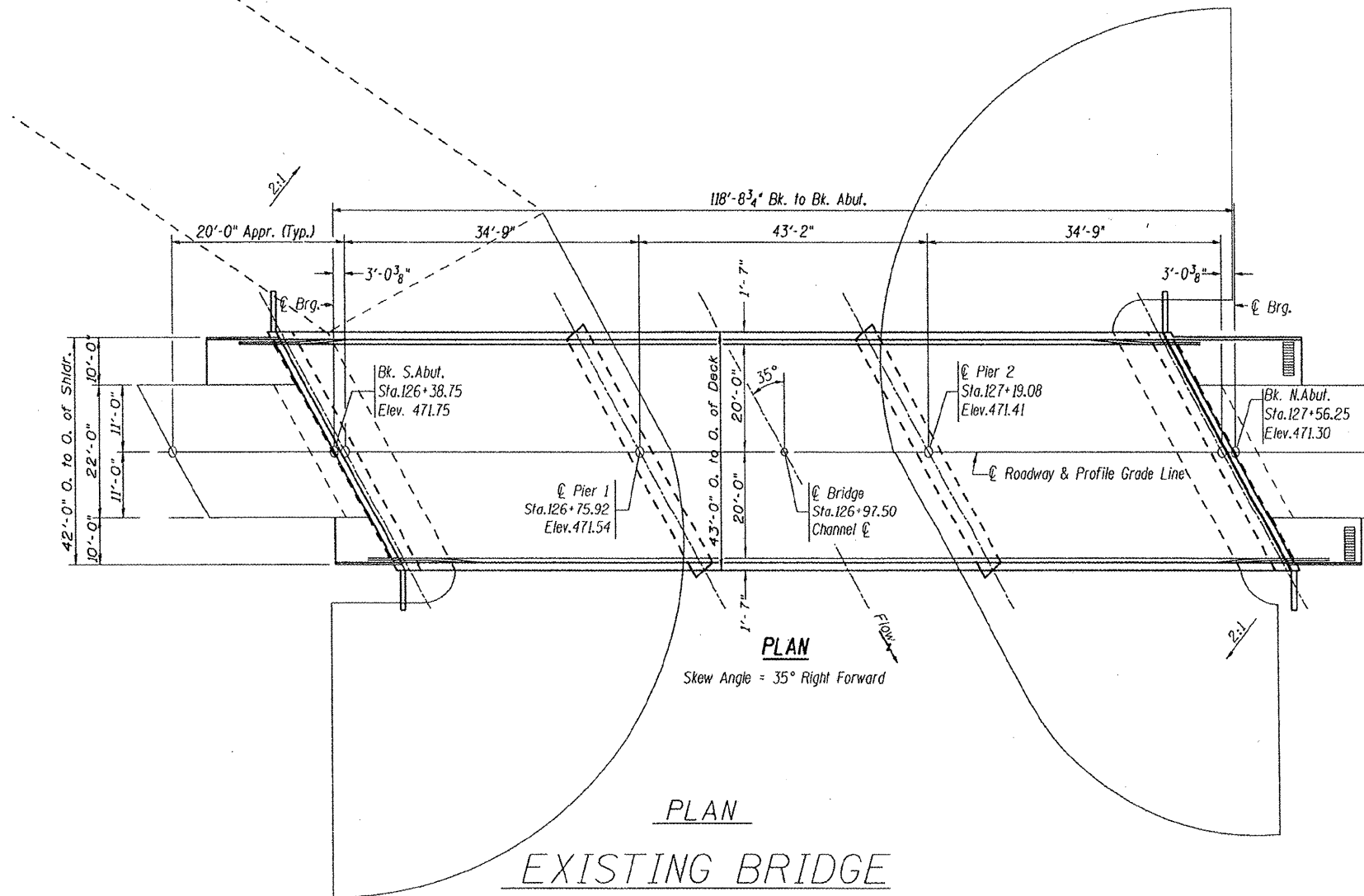
INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	GENERAL PLAN AND ELEVATION, SUMMARY OF QUANTITIES, LOCATION MAP
2	PROPOSED SITE PLAN
3	PROPOSED DIMENSION PLAN
4	SITE PROFILE
5-8	CROSS SECTIONS



BILL OF MATERIALS

ITEM	UNIT	TOTAL
CHANNEL EXCAVATION	CU YD	52
STONE RIPRAP, CLASS A5	TONS	689
FILTER FABRIC	SQ YD	316
SUB-BASE GRANULAR MATERIAL, TYPE C	CU YD	10
DEWATERING STRUCTURE NO. 2	EACH	1
CONSTRUCTION ACCESS	EACH	1



LOCATION SKETCH

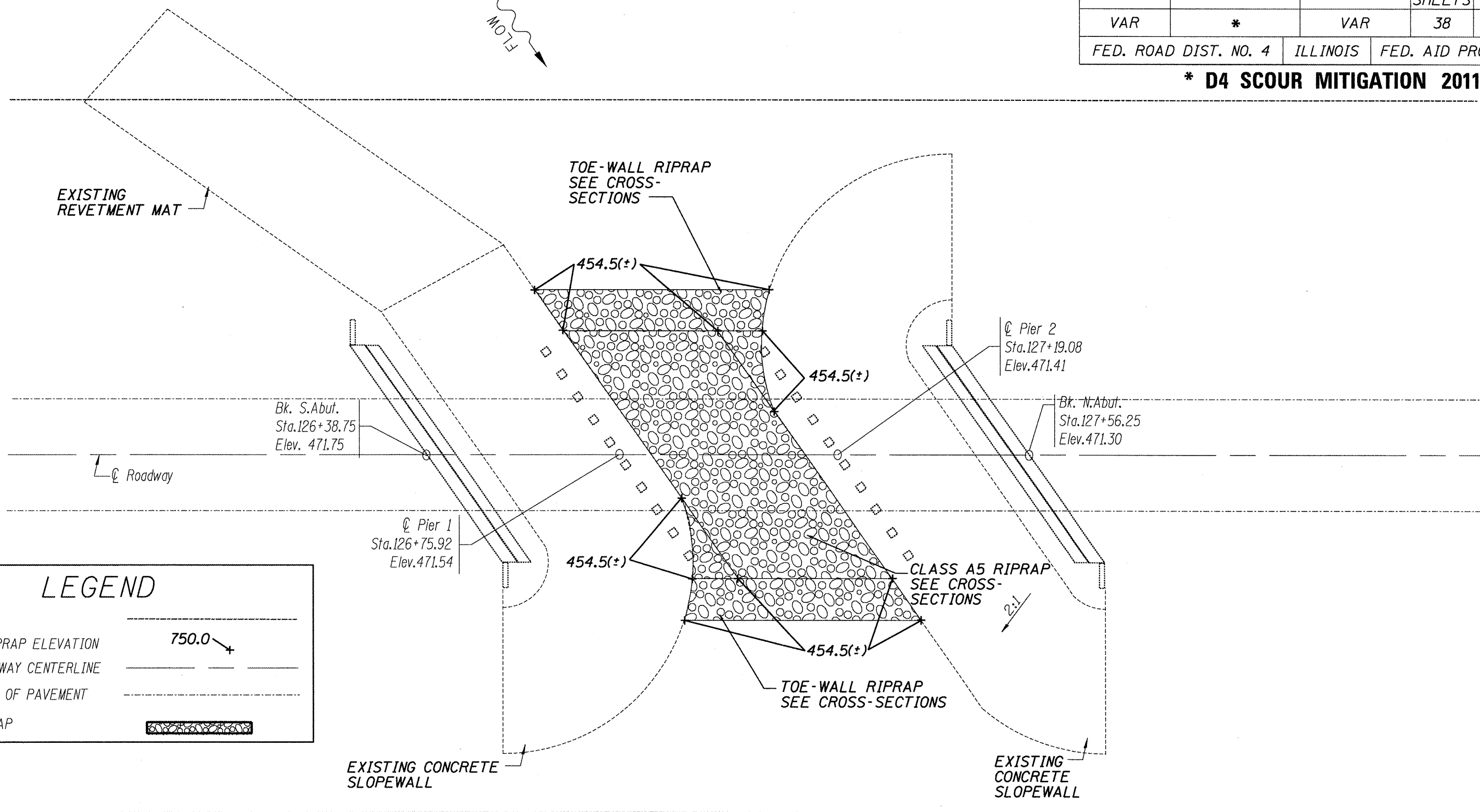
WATERWAY/SCOUR INFORMATION

DESIGN FLOOD	100 YRS
DRAINAGE AREA	18.2 SQ MI
FLOW	6,997 CFS
FLOW DEPTH	11.37 FT
CONTRACTION SCOUR DEPTH	17 FT

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
S.N. 078-0003
F.A.P. 318 (ILLINOIS 29)
OVER SENACHWINE CREEK
PUTNAM COUNTY
SHEET 1 OF 7

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	14
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



LEGEND

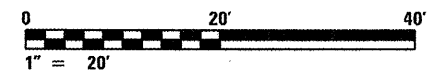
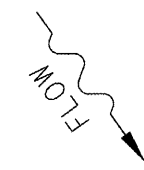
R.O.W.

T/RIPRAP ELEVATION

ROADWAY CENTERLINE

EDGE OF PAVEMENT

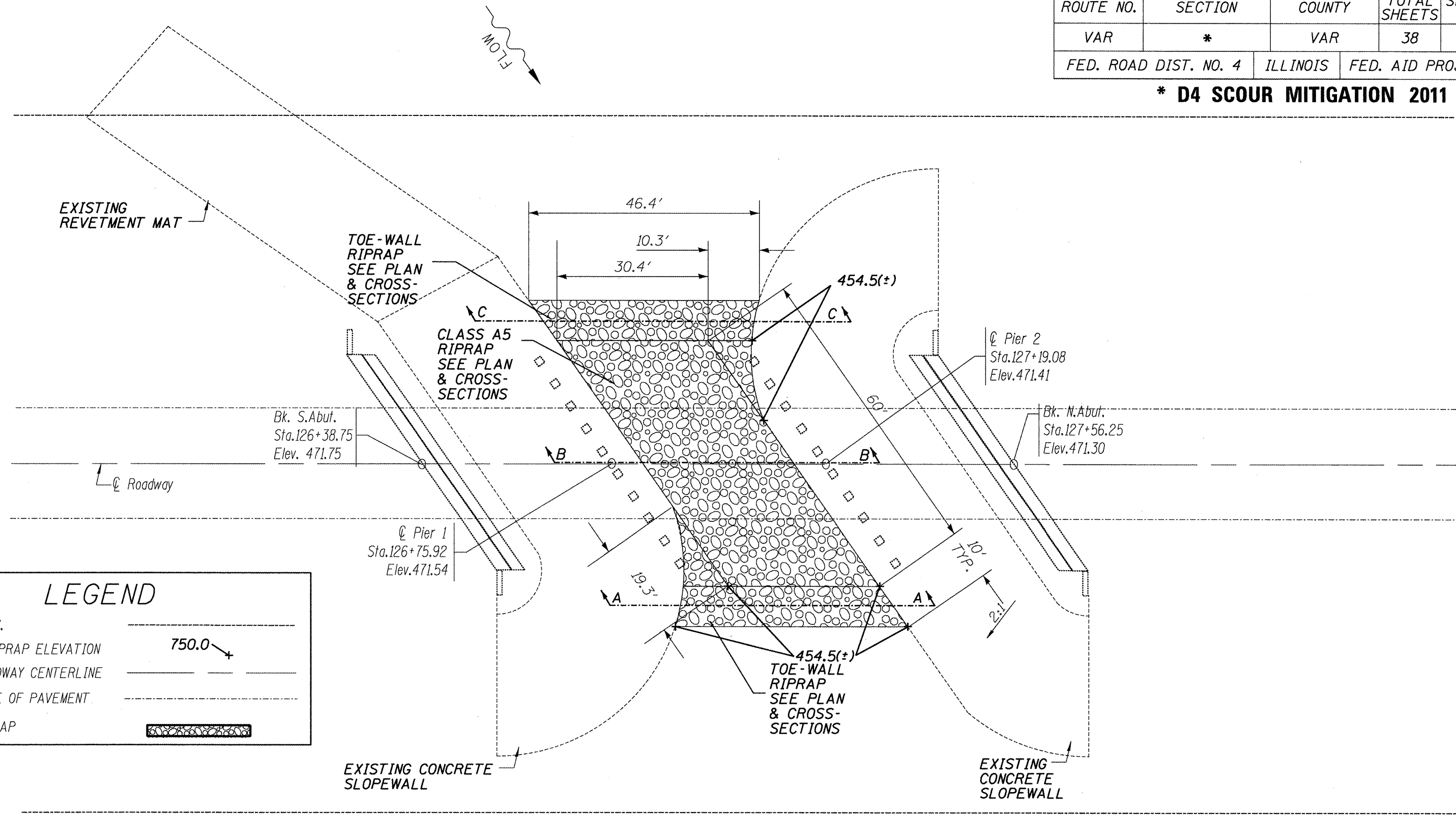
RIPRAP



ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED SITE PLAN
 S.N. 078-0003
 F.A.P. 318 (IL 29)
 OVER SENACHWINE CREEK
 PUTNAM COUNTY
 SHEET 2 OF 7
 SCALE: 1" = 20'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	15
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



LEGEND

R.O.W. -----

T/RIPRAP ELEVATION 750.0 ↘

ROADWAY CENTERLINE -----

EDGE OF PAVEMENT -----

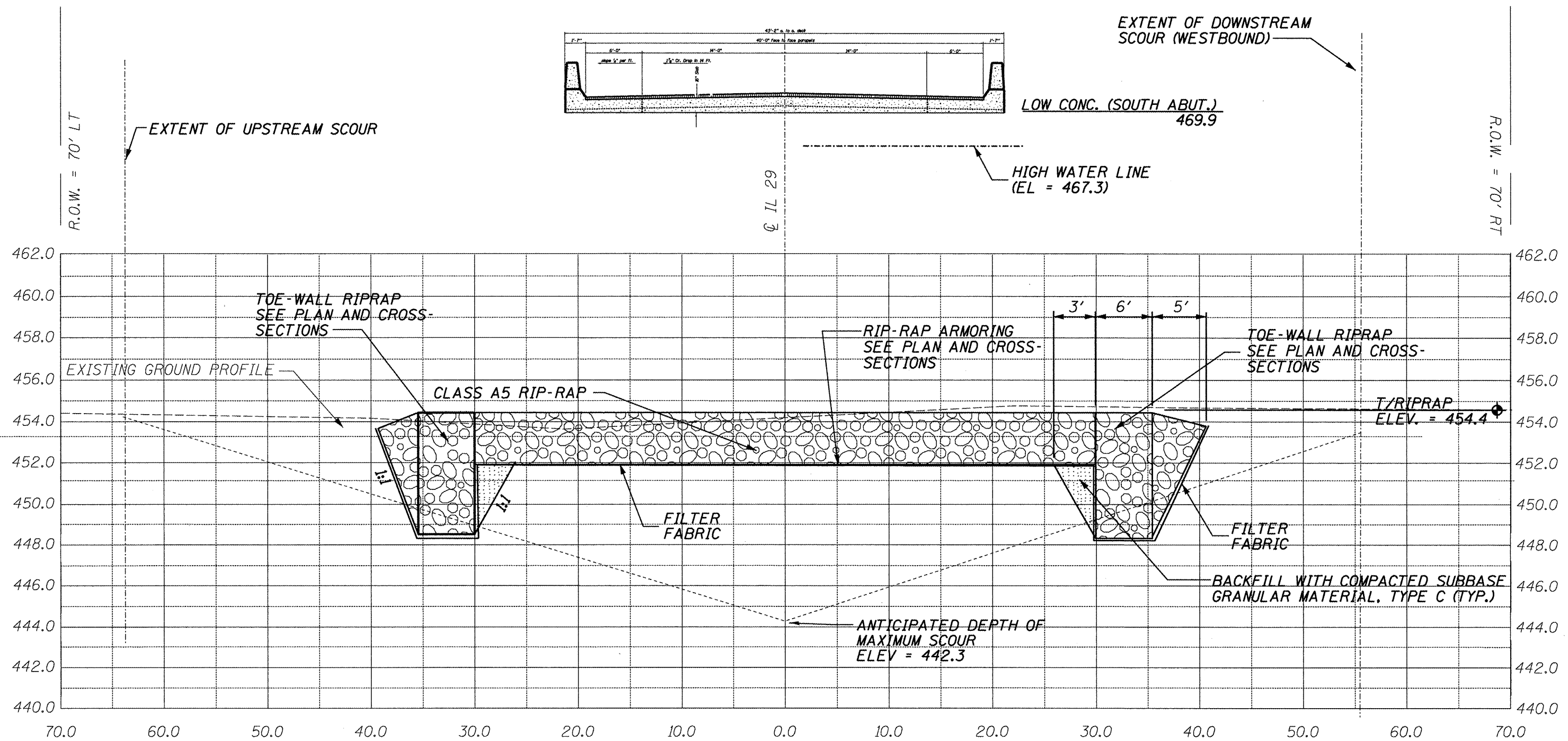
RIPRAP

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED DIMENSION PLAN
 S.N. 078-0003
 F.A.P. 318 (IL 29)
 OVER SENACHWINE CREEK
 TAZEWELL COUNTY
 SHEET 3 OF 7

SCALE: 1" = 20'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	16
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

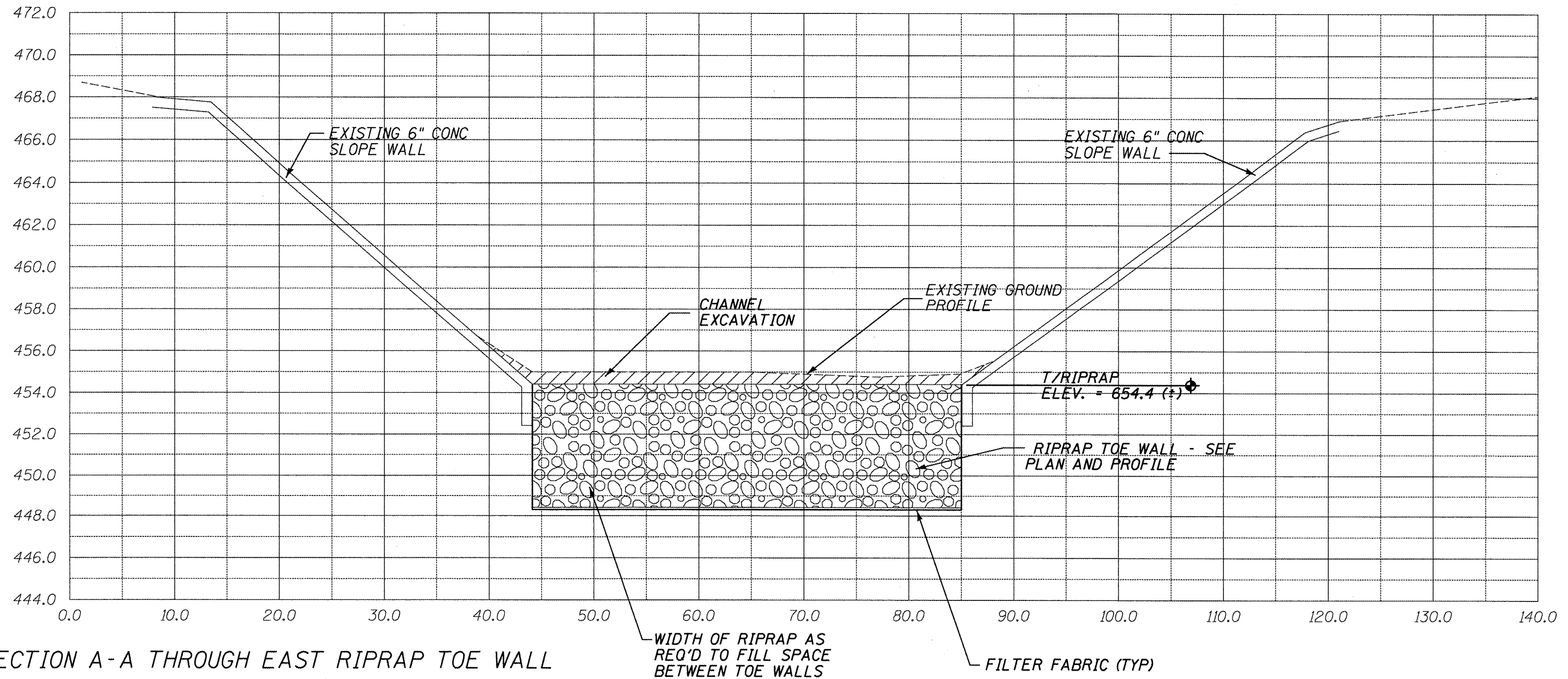
*** D4 SCOUR MITIGATION 2011**



ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE PROFILE
 S.N. 078-0003
 F.A.P. 318 (IL 29)
 OVER SENACHWINE CREEK
 PUTNAM COUNTY
 SHEET 4 OF 7
 SCALE: VERT. 1" = 5' HORIZ. 1" = 10'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	17
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**

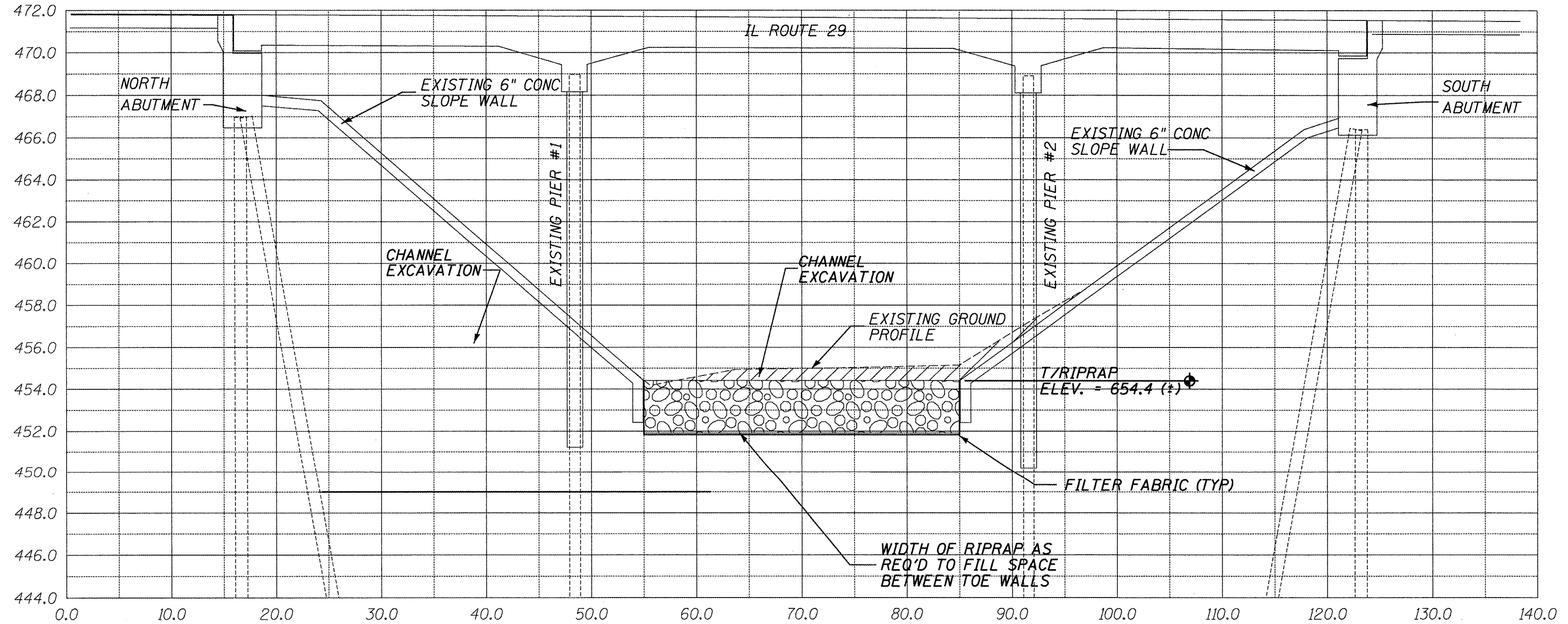


SECTION A-A THROUGH EAST RIPRAP TOE WALL

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 078-0003
 F.A.P. 318 (IL 29)
 OVER SENACHWINE CREEK
 PUTNAM COUNTY
 SHEET 5 OF 7
 SCALE: VERT. 1" = 5' HORIZ. 1" = 10'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	18
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**

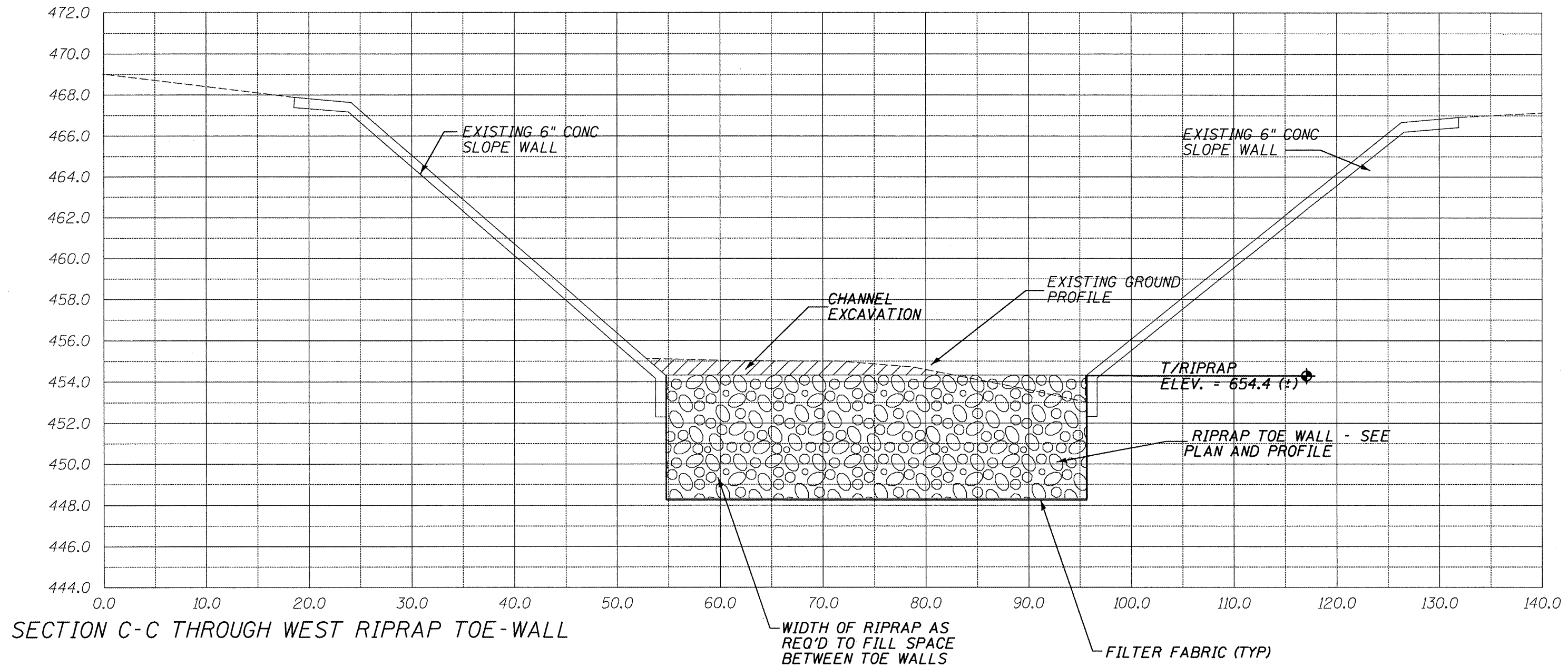


SECTION B-B THROUGH \odot IL 29

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 078-0003
 F.A.P. 318 (IL 29)
 OVER SENACHWINE CREEK
 PUTNAM COUNTY
 SHEET 6 OF 7
 SCALE: VERT. 1" = 5' HORIZ. 1" = 10'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	19
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 078-0003
 F.A.P. 318 (IL 29)
 OVER SENACHWINE CREEK
 PUTNAM COUNTY
 SHEET 7 OF 7
 SCALE: VERT. 1" = 5' HORIZ. 1" = 10'

BENCHMARK: CHISELED "C" SET IN CONCRETE
 TOP OF SE. SIDE OF S. PARAPET
 WALL OF S.N. 090-100
 ELEV. = 100.00 FT. (ASSUMED)

EXISTING STRUCTURE: SN 090-0087 IS 24'-0" WIDE BY 671'-0"
 LONG WITH NINE P.P.C. DECK BEAM SPANS & ONE STEEL THRU
 TRUSS SPAN ON R.C. CLOSED ABUTMENTS AND PIERS.

BILL OF MATERIALS

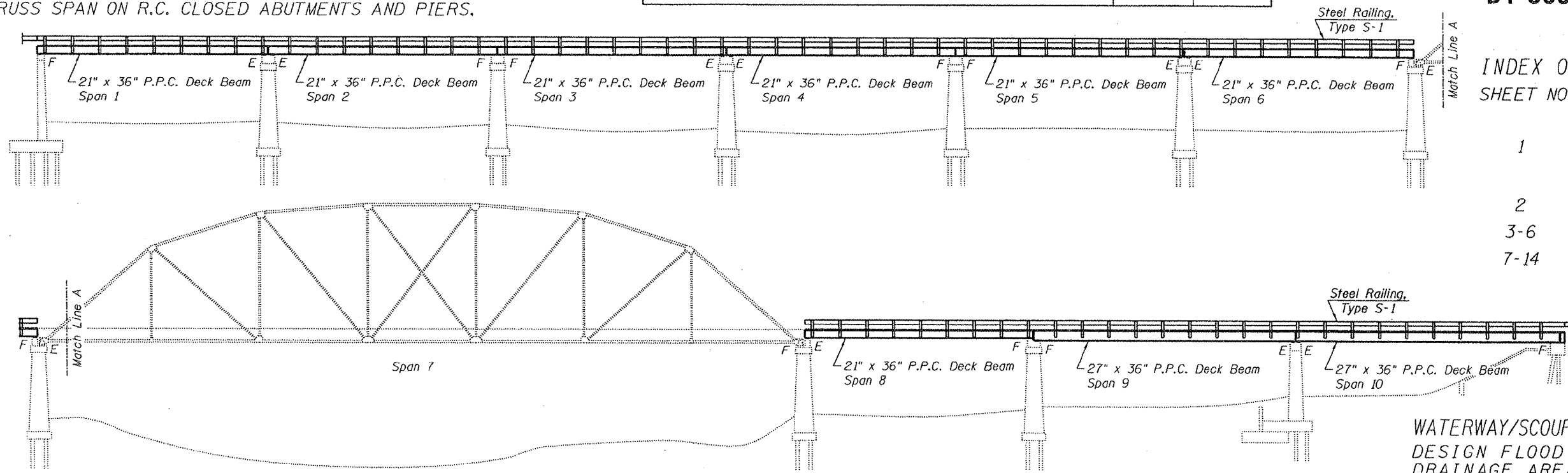
ITEM	UNIT	TOTAL
STONE RIPRAP, CLASS A5	TONS	1850
FILTER FABRIC	SQ YD	1058
DEWATERING STRUCTURE NO. 3	EACH	1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	20
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**

INDEX OF SHEETS

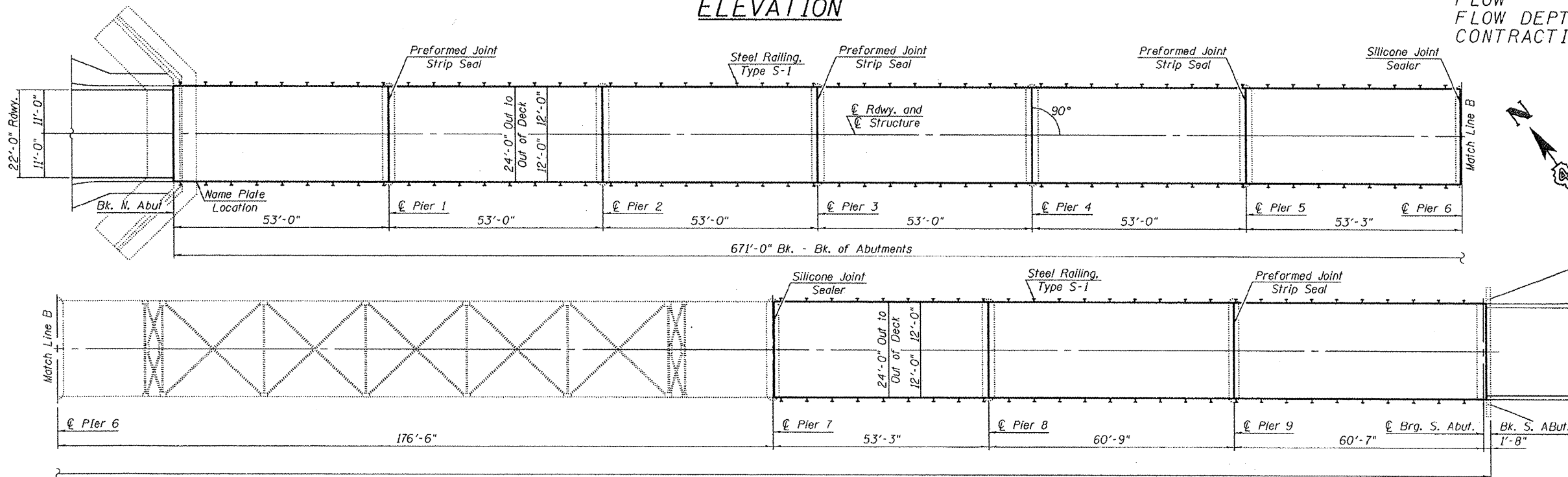
SHEET NO.	DESCRIPTION
1	GENERAL PLAN & ELEVATION, SUMMARY OF QUANTITIES, LOCATION MAP
2	SITE PLAN
3-6	SITE DETAILS
7-14	SITE CROSS SECTIONS



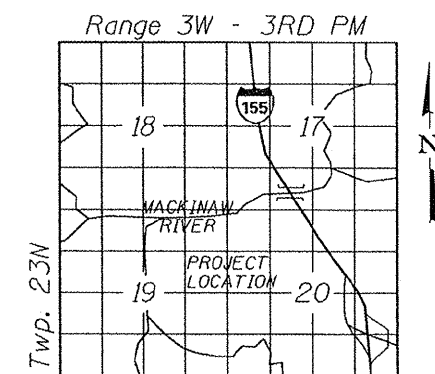
ELEVATION

WATERWAY/SCOUR INFORMATION

DESIGN FLOOD	100 YRS
DRAINAGE AREA	990.1 SQ MI
FLOW	44,350 CFS
FLOW DEPTH	17.6 FT
CONTRACTION SCOUR DEPTH	9 FT



PLAN



LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 S.N. 090-0087
 OLD IL 121
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 1 OF 9

LEGEND

- R.O.W.
- EXISTING CONTOUR -95-
- CONCRETE ABUTMENT
- STREAM CENTERLINE
- PRECAST SCOUR PROTECTION, 24 INCH
- PROPOSED SCOUR PROTECTION, CLASS A5

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	21
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

* D4 SCOUR MITIGATION 2011

PIERS PROTECTED BY EXISTING PRECAST SCOUR PROTECTION

PIERS PROTECTED BY EXISTING PRECAST SCOUR PROTECTION

F.A.I. 155 (SB)
S.N. 090-0092

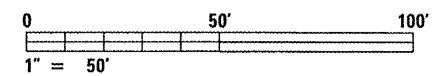
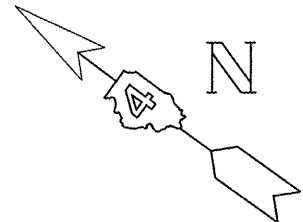
OUTLINE OF EXISTING ROADWAY

OLD IL 121
S.N. 090-0087

PROPOSED CLASS A5 RIPRAP

PROPOSED CLASS A5 RIPRAP

R.O.W.



ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED SITE PLAN
 S.N. 090-0087
 OLD IL 121
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 2 OF 9

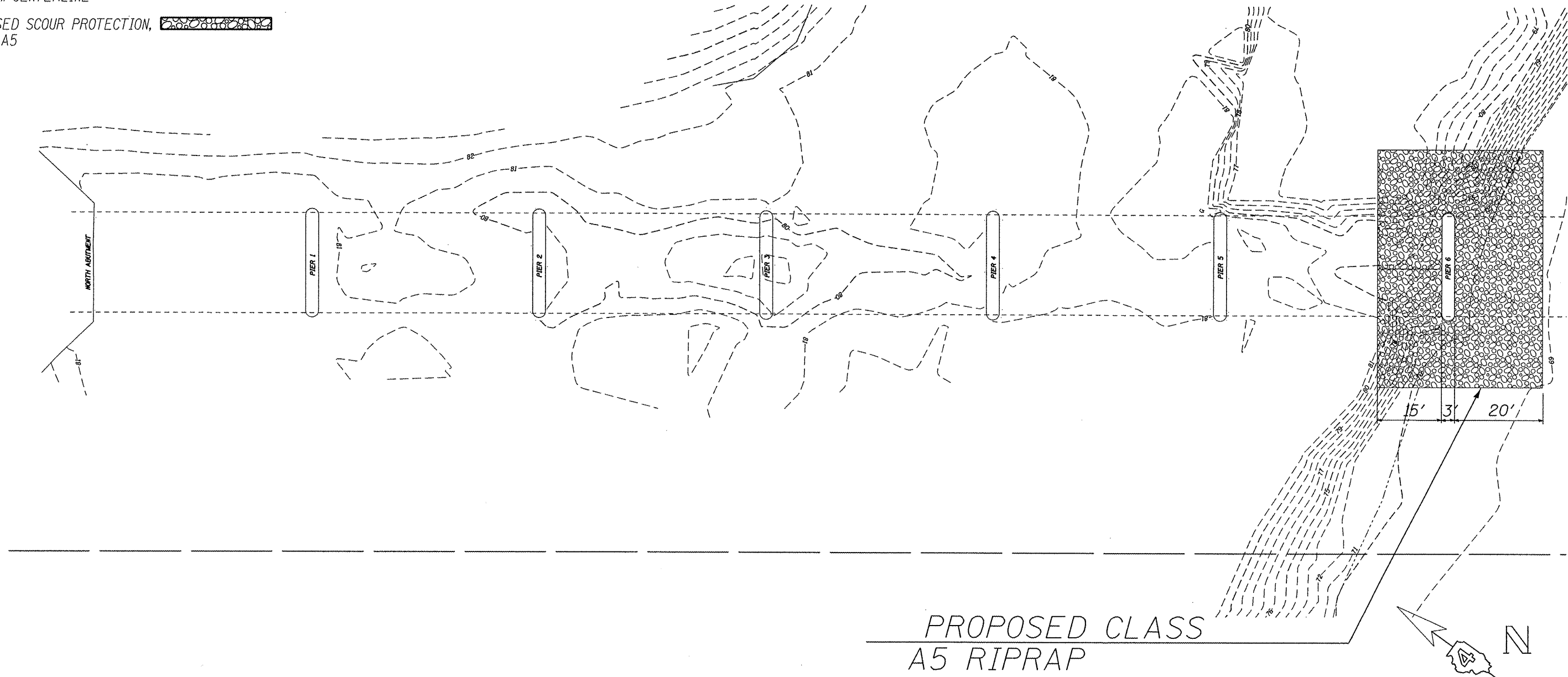
SCALE: 1" = 50'

LEGEND

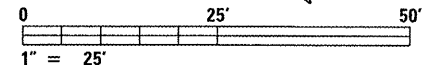
- R.O.W.
- EXISTING CONTOUR 95
- CONCRETE ABUTMENT
- STREAM CENTERLINE
- PROPOSED SCOUR PROTECTION, CLASS A5

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	22
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

* D4 SCOUR MITIGATION 2011



PROPOSED CLASS
A5 RIPRAP



ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE DETAIL - WEST
 S.N. 090-0087
 OLD IL 121
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 3 OF 9

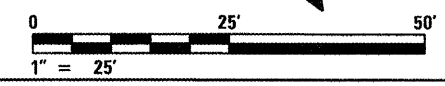
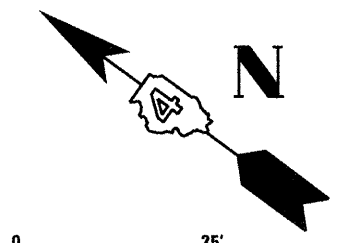
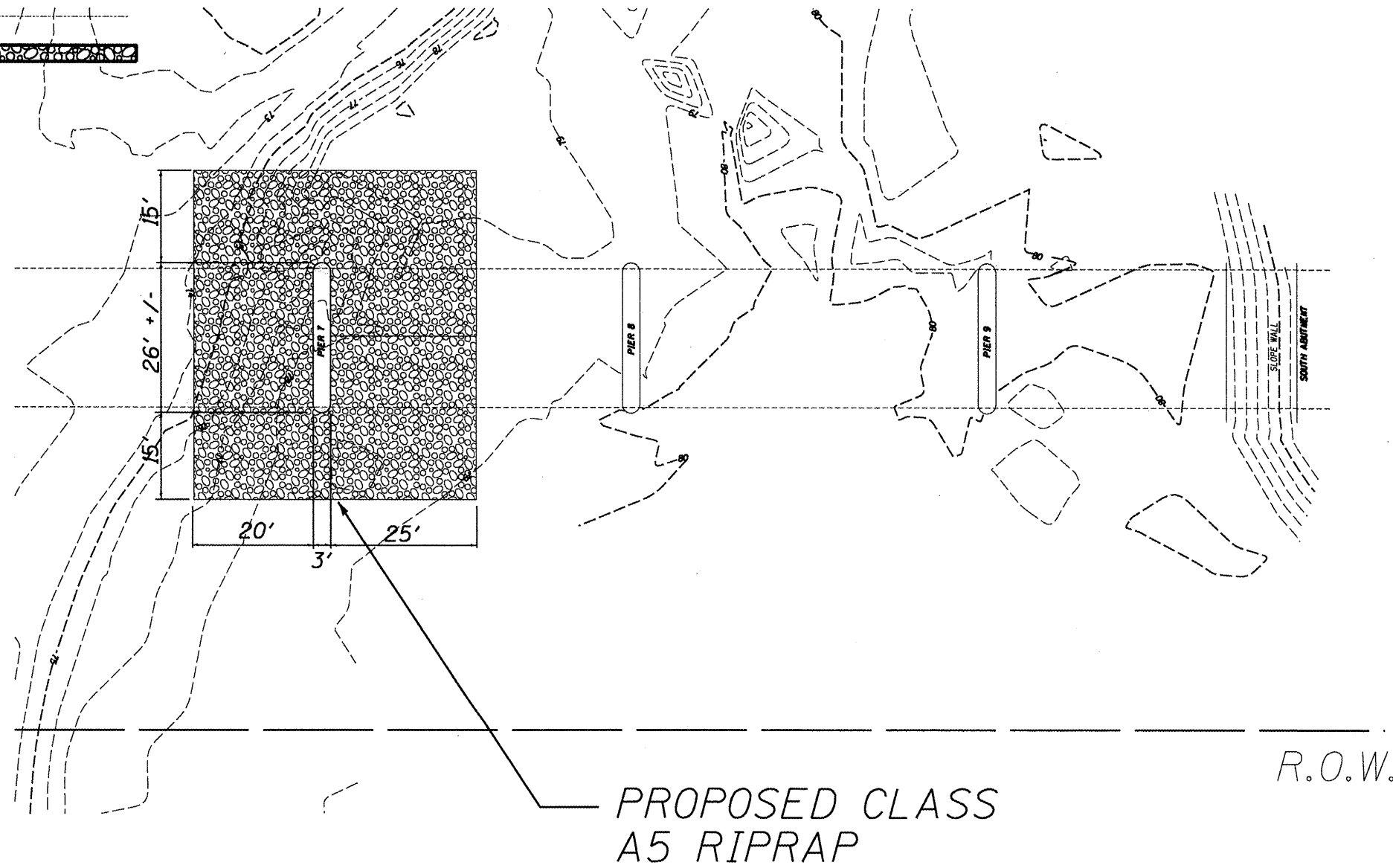
SCALE: 1" = 25'

LEGEND

- R.O.W.
- EXISTING CONTOUR 95
- CONCRETE ABUTMENT
- STREAM CENTERLINE
- PROPOSED SCOUR PROTECTION, CLASS A5

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	23
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

* D4 SCOUR MITIGATION 2011

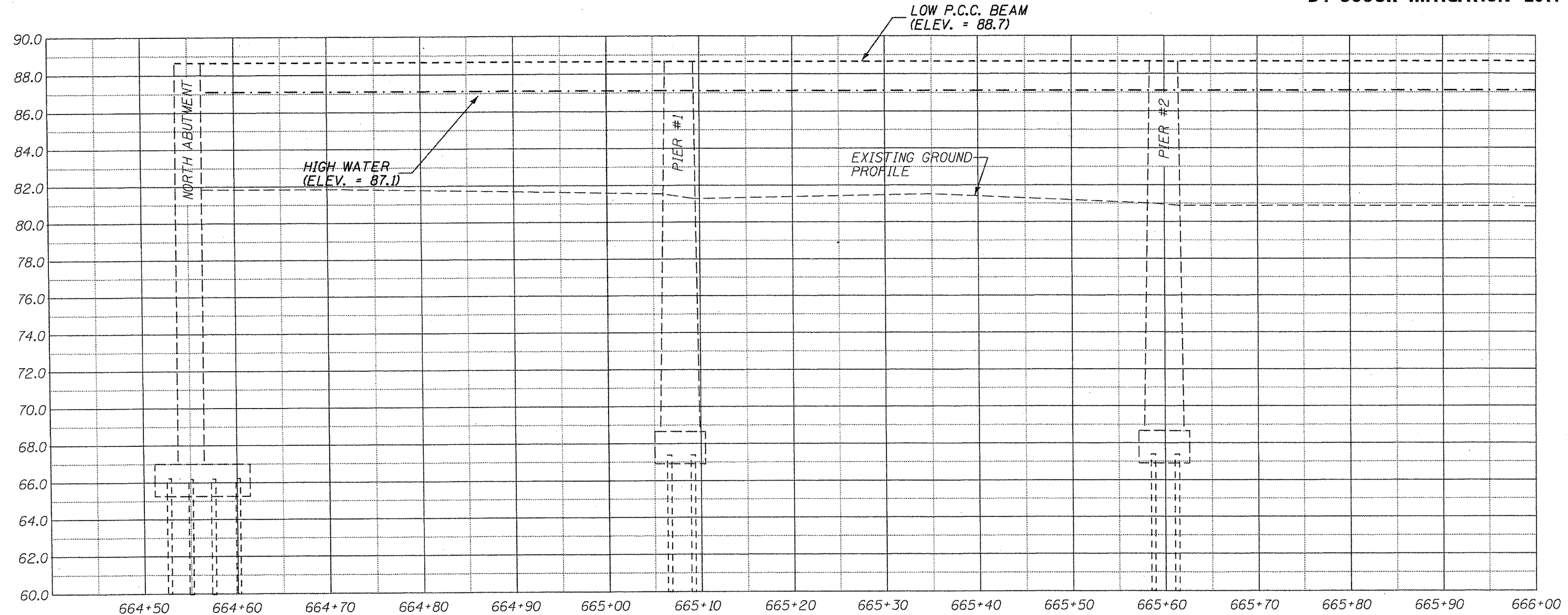


ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE DETAIL - EAST
 S.N. 090-0087
 OLD IL 121
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 4 OF 9

SCALE: 1" = 25'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	24
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



SECTION A-A THROUGH \odot SN 090-0087

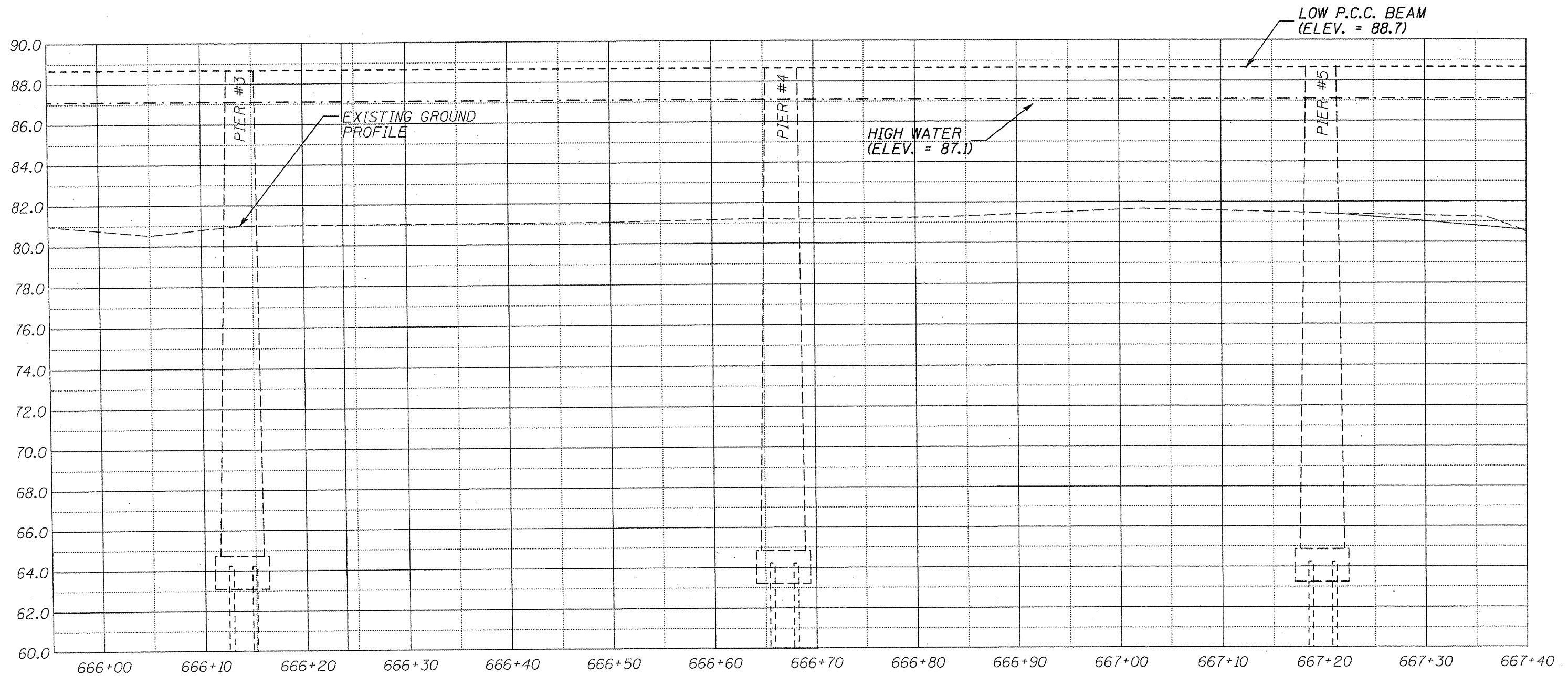
NOTE: ELEVATIONS OF EXISTING FOOTINGS ARE TAKEN FROM EXISTING PLANS. THE ELEVATION OF THE RIPRAP ABOVE SHALLOW FOOTINGS IS TO BE BASED ON FIELD MEASUREMENTS OF THE DEPTH.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 090-0087
 OLD IL 121
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 5 OF 9

SCALE: 1" = 20'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	25
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



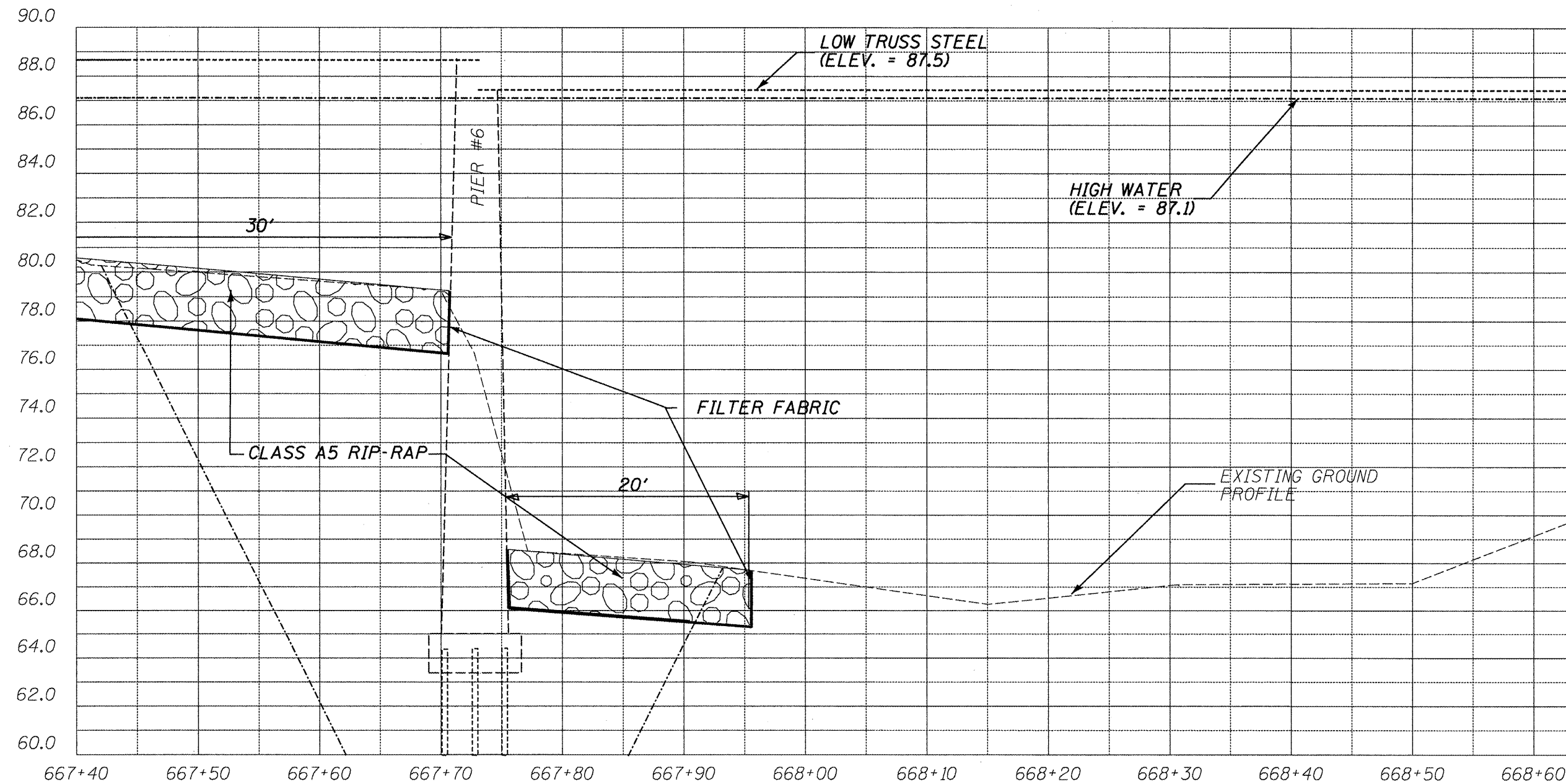
SECTION A-A THROUGH \odot SN 090-0087

NOTE: ELEVATIONS OF EXISTING FOOTINGS ARE TAKEN FROM EXISTING PLANS. THE ELEVATION OF THE RIPRAP ABOVE SHALLOW FOOTINGS IS TO BE BASED ON FIELD MEASUREMENTS OF THE DEPTH.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 090-0087
 OLD IL 121
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 6 OF 9
 SCALE: 1" = 20'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	26
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



SECTION A-A THROUGH \odot SN 090-0087

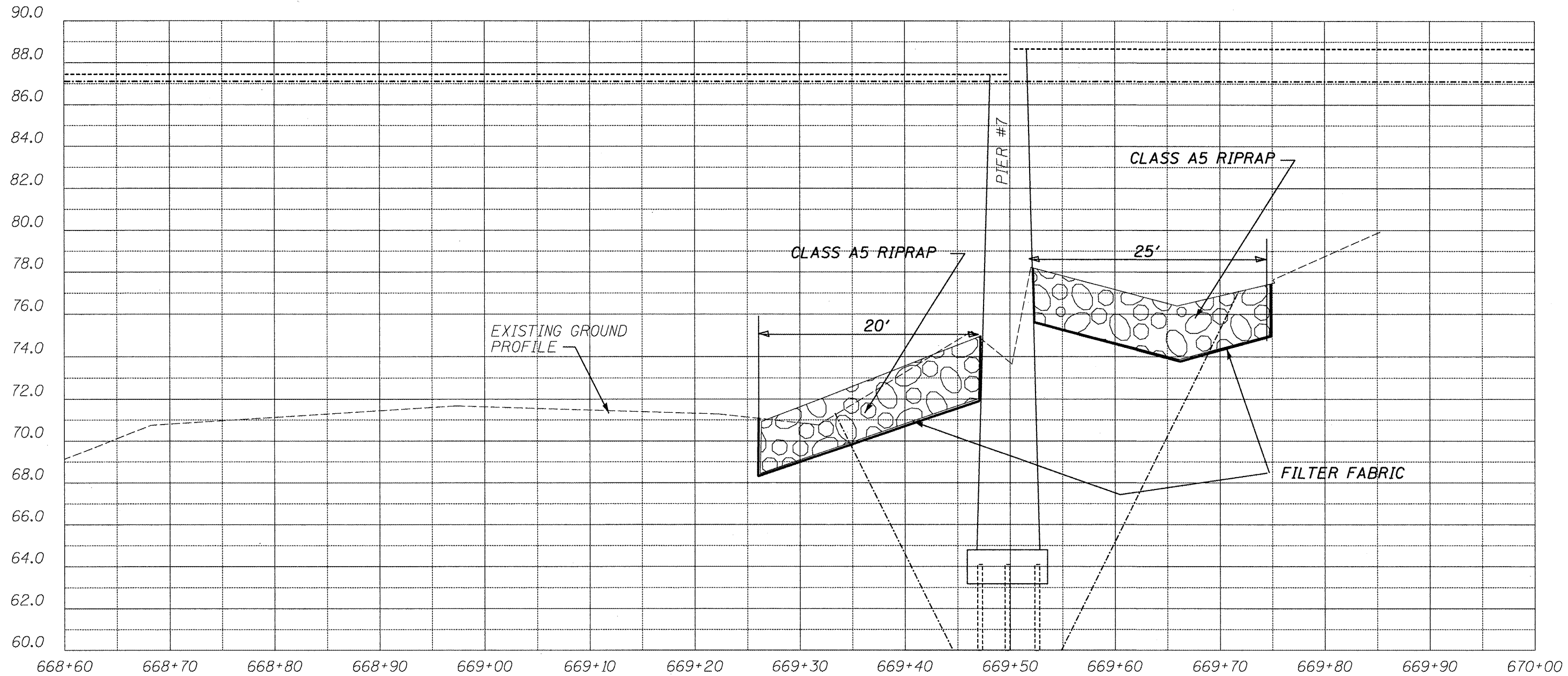
NOTE: ELEVATIONS OF EXISTING FOOTINGS ARE TAKEN FROM EXISTING PLANS. THE ELEVATION OF THE RIPRAP ABOVE SHALLOW FOOTINGS IS TO BE BASED ON FIELD MEASUREMENTS OF THE DEPTH.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 090-0087
 OLD IL 121
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 7 OF 9

SCALE: 1" = 20'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	27
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



SECTION A-A THROUGH \odot SN 090-0087

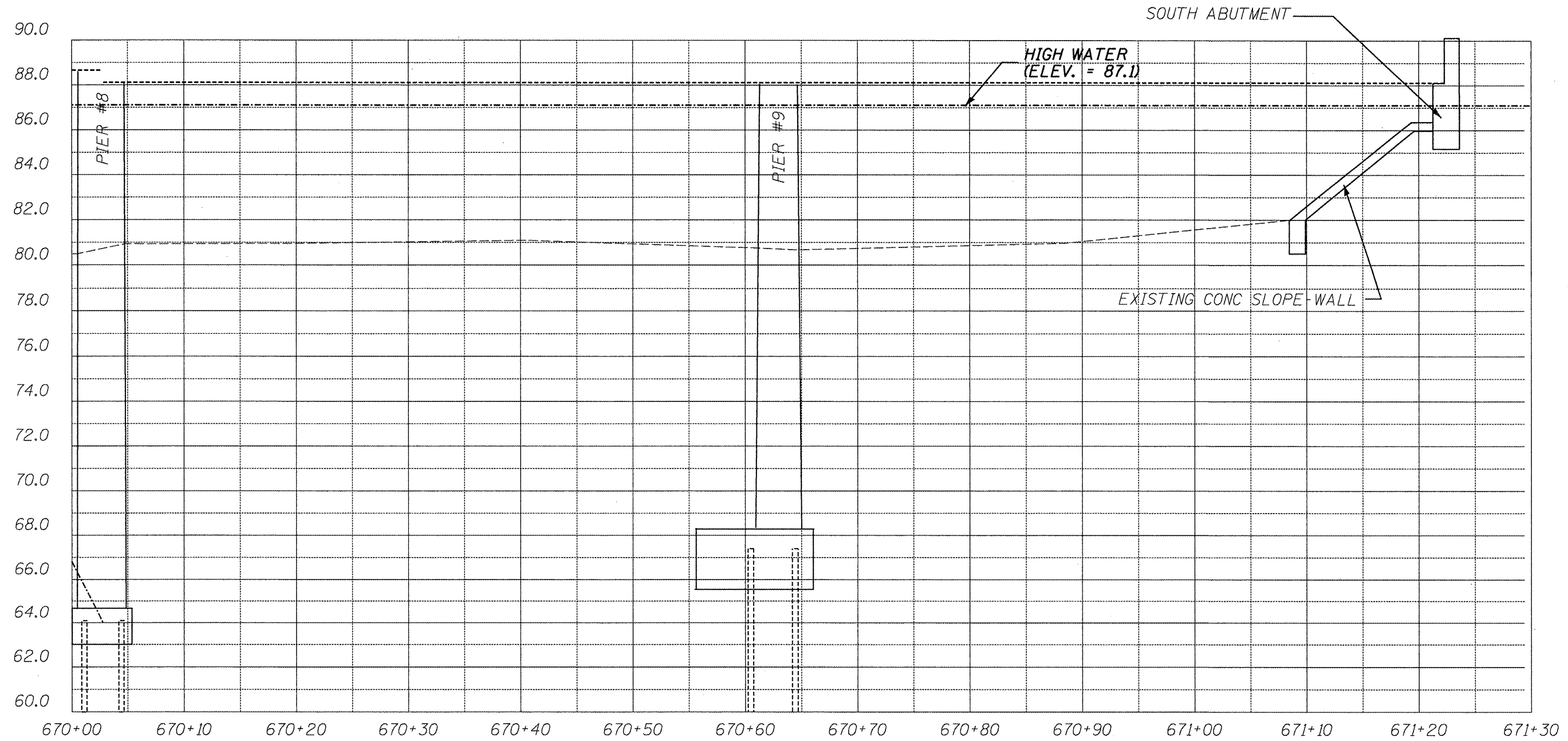
NOTE: ELEVATIONS OF EXISTING FOOTINGS ARE TAKEN FROM EXISTING PLANS. THE ELEVATION OF THE RIPRAP ABOVE SHALLOW FOOTINGS IS TO BE BASED ON FIELD MEASUREMENTS OF THE DEPTH.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 090-0087
 OLD IL 121
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 8 OF 9

SCALE: 1" = 20'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	28
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



SECTION A-A THROUGH @ SN 090-0087

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 090-0087
 OLD IL 121
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 9 OF 9
 SCALE: 1" = 20'

BENCHMARK: CHISELED "C" SET IN CONCRETE
TOP OF SE. SIDE OF S. PARAPET
WALL OF S.N. 090-100
ELEV. = 100.00 FT. (ASSUMED)

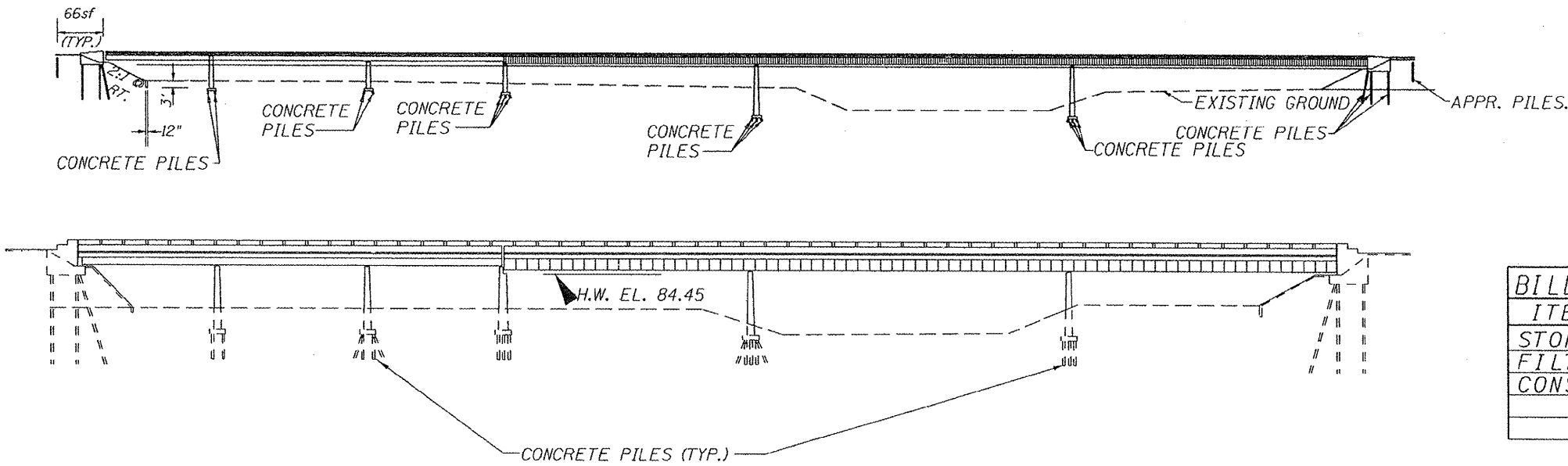
EXISTING STRUCTURES: SN 090-0092 AND 090-0100 ARE 42'-0" WIDE BY 549'-9" LONG
SIX-SPAN R.C. DECK STRUCTURE STEEL GIRDER SUPERSTRUCTURES WITH R.C. CLOSED
ABUTMENTS AND PIERS.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	29
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	GENERAL PLAN AND ELEVATION, SUMMARY OF QUANTITIES, LOCATION MAP
2-4	SITE PLAN
5-8	SITE CROSS SECTIONS



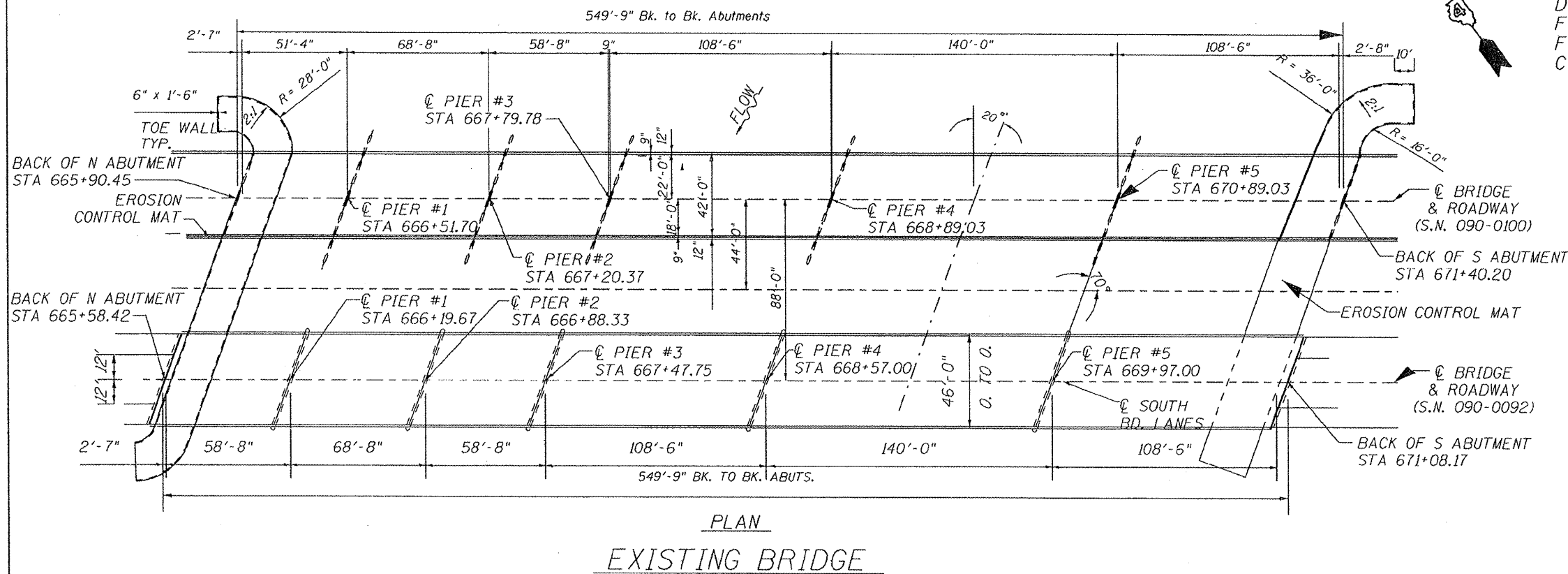
ELEVATION

BILL OF MATERIALS

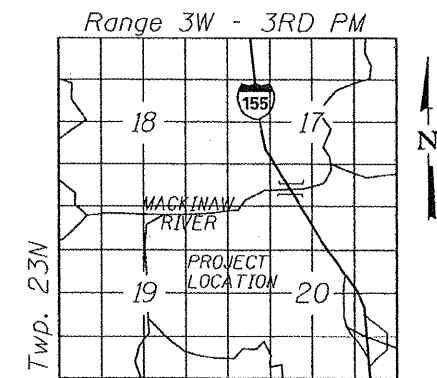
ITEM	UNIT	TOTAL
STONE RIPRAP, CLASS A5	TONS	566
FILTER FABRIC	SQ YD	332
CONSTRUCTION ACCESS	EACH	1

WATERWAY/SCOUR INFORMATION

DESIGN FLOOD	100 YRS
DRAINAGE AREA	990.1 SQ MI
FLOW	44,350 CFS
FLOW DEPTH	17.6 FT
CONTRACTION SCOUR DEPTH	9 FT



PLAN
EXISTING BRIDGE



LOCATION SKETCH

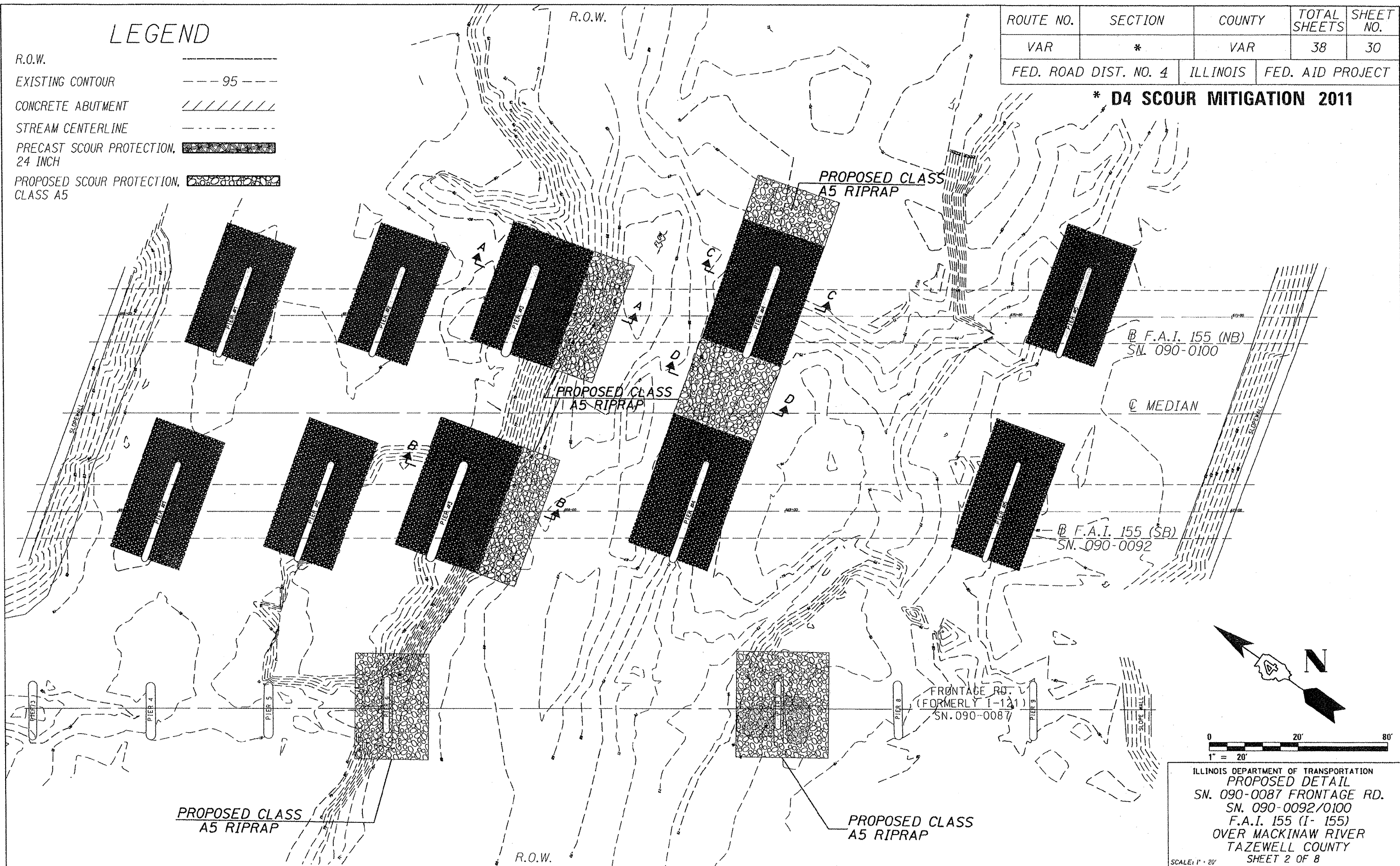
ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
S.N. 090-0092/0100
F.A.I. 155 (I-155)
OVER MACKINAW RIVER
TAEWELL COUNTY
SHEET 1 OF 8

LEGEND

- R.O.W.
- EXISTING CONTOUR 95
- CONCRETE ABUTMENT
- STREAM CENTERLINE
- PRECAST SCOUR PROTECTION, 24 INCH
- PROPOSED SCOUR PROTECTION, CLASS A5

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	30
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

* D4 SCOUR MITIGATION 2011



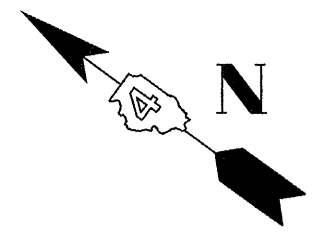
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED DETAIL
 SN. 090-0087 FRONTAGE RD.
 SN. 090-0092/0100
 F.A.I. 155 (I-155)
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 2 OF 8

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	31
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**

LEGEND

- R.O.W. _____
- EXISTING CONTOUR ----- 95 -----
- CONCRETE ABUTMENT // // // // //
- STREAM CENTERLINE - - - - -
- PRECAST SCOUR PROTECTION, 24 INCH [Pattern]
- PROPOSED SCOUR PROTECTION, CLASS A5 [Pattern]

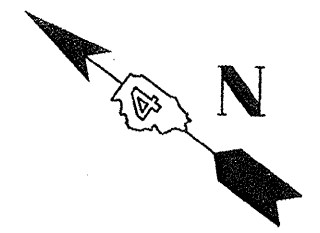


F.A.I. 155 (NB)
S.N. 090-0100

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED RIPRAP
 SN. 090-0087 FRONTAGE RD.
 SN. 090-0092/0100
 F.A.I. 155 (I- 155)
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 3 OF 8

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	32
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

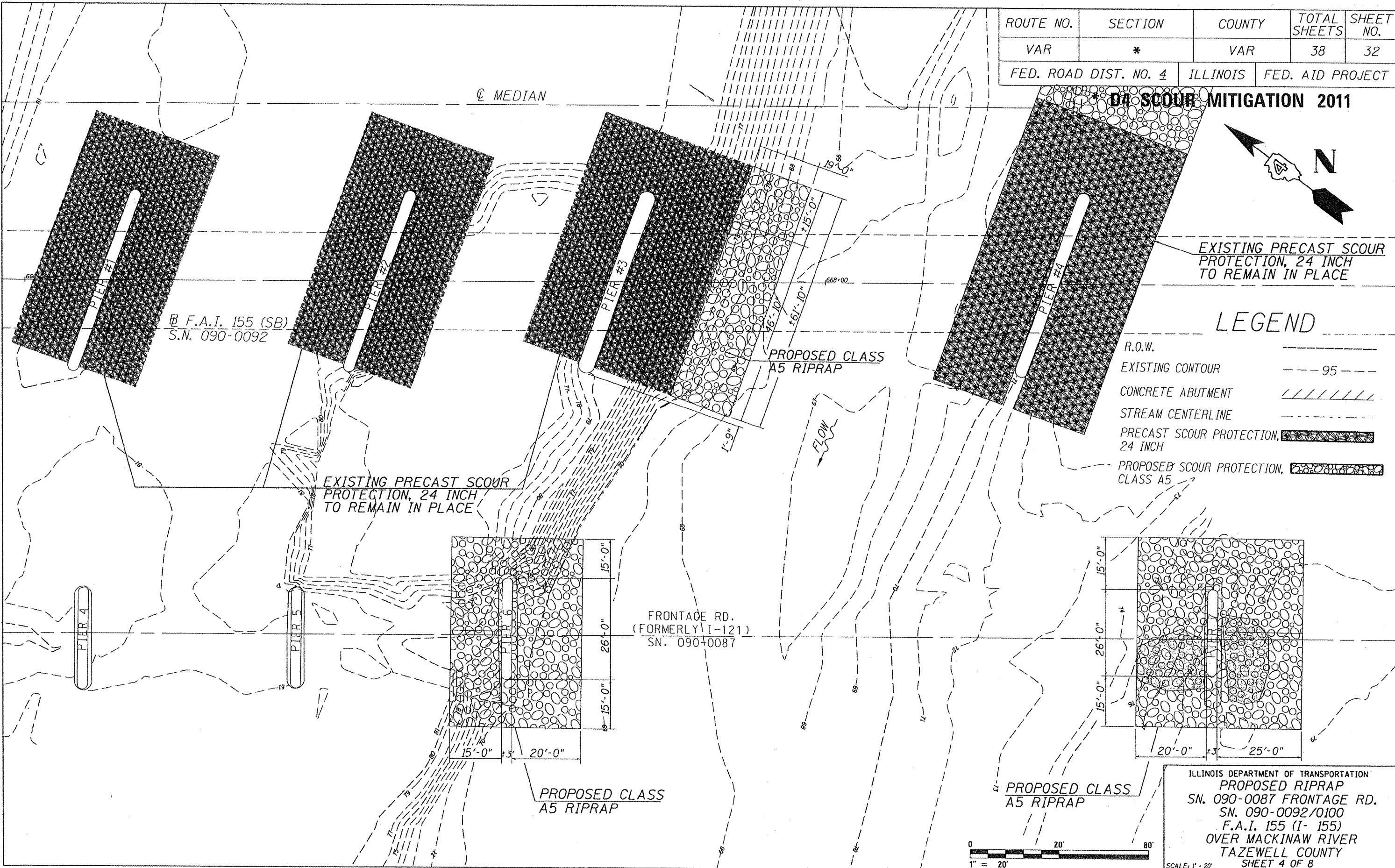
DR SCOUR MITIGATION 2011



EXISTING PRECAST SCOUR PROTECTION, 24 INCH TO REMAIN IN PLACE

LEGEND

- R.O.W.
- EXISTING CONTOUR 95
- CONCRETE ABUTMENT
- STREAM CENTERLINE
- PRECAST SCOUR PROTECTION, 24 INCH
- PROPOSED SCOUR PROTECTION, CLASS A5



F.A.I. 155 (SB)
S.N. 090-0092

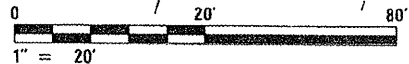
EXISTING PRECAST SCOUR PROTECTION, 24 INCH TO REMAIN IN PLACE

PROPOSED CLASS A5 RIPRAP

FRONTAGE RD.
(FORMERLY I-121)
SN. 090+0087

PROPOSED CLASS A5 RIPRAP

PROPOSED CLASS A5 RIPRAP

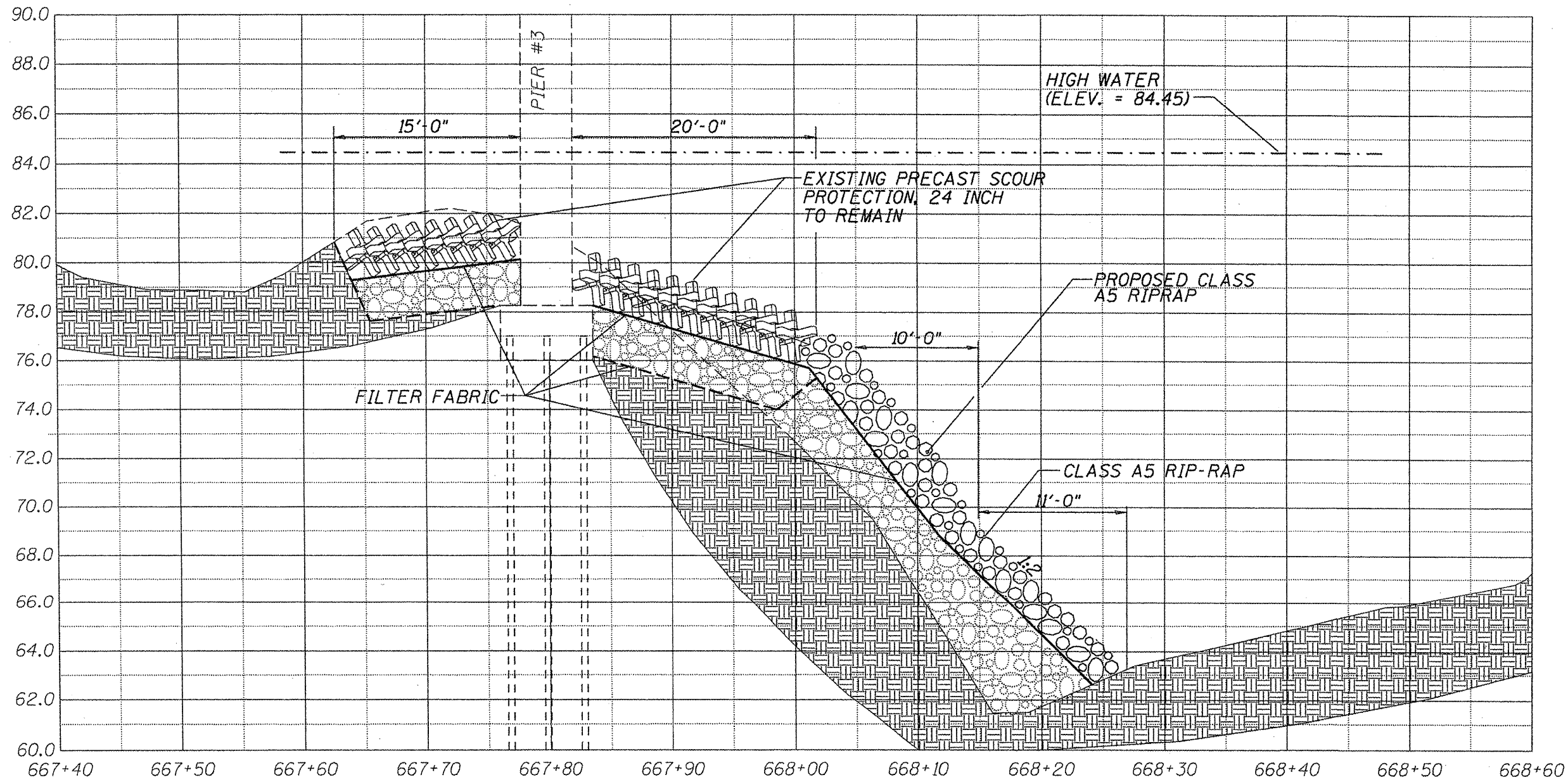


ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED RIPRAP
SN. 090-0087 FRONTAGE RD.
SN. 090-0092/0100
F.A.I. 155 (I-155)
OVER MACKINAW RIVER
TAZEVELL COUNTY
SHEET 4 OF 8

NOTE: PROPOSED RIPRAP SHALL BE PLACED TO FILL IN AREA BETWEEN PRECAST SCOUR PROTECTION, 24" AND EXISTING RIPRAP.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	33
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



SECTION A-A THROUGH @ SN 090-0100

NOTE: ELEVATIONS OF EXISTING FOOTINGS ARE TAKEN FROM EXISTING PLANS. THE ELEVATION OF THE PRECAST SCOUR PROTECTION ABOVE SHALLOW FOOTINGS IS TO BE BASED ON FIELD MEASUREMENTS OF THE DEPTH.

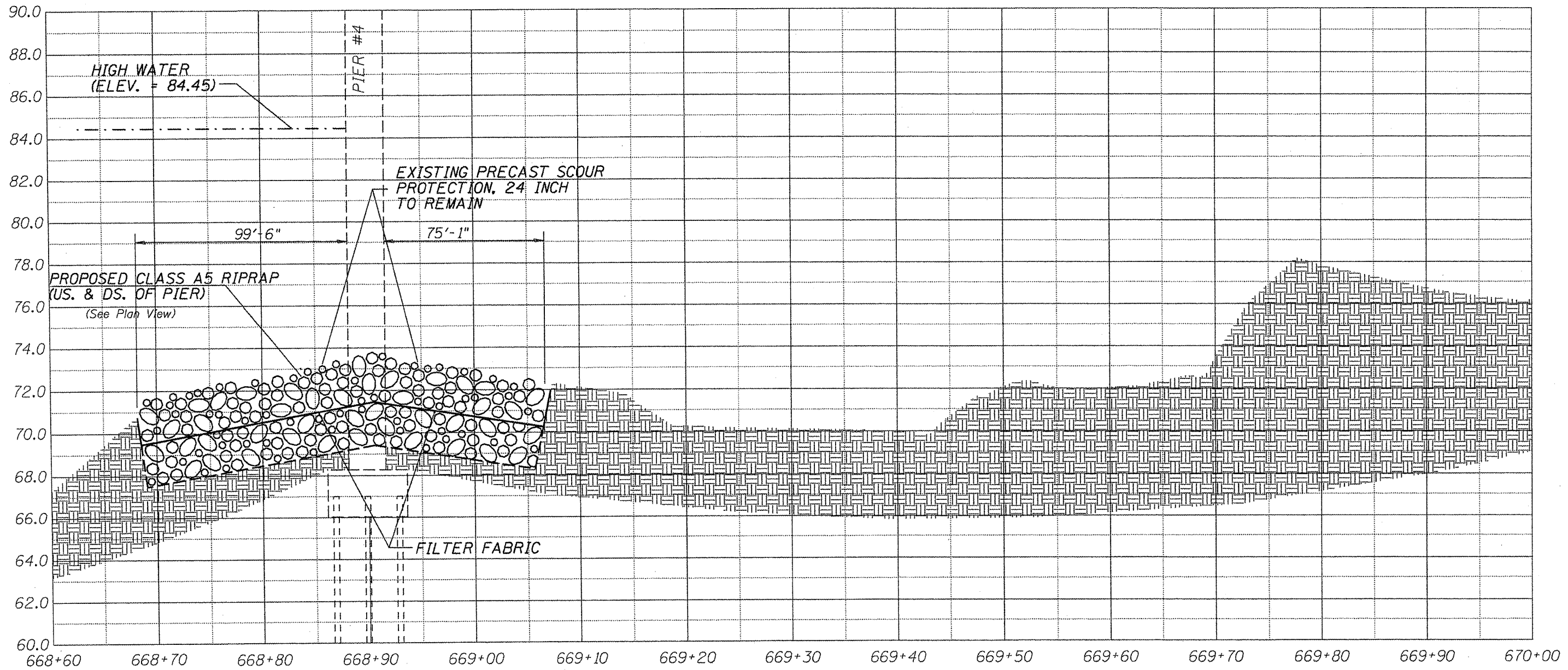
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 090-0092/0100
 F.A.I. 155 (I-155)
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 5 OF 8

SCALE: 1" = 20'

NOTE: RIPRAP TO BE PLACED FROM END OF PRECAST SCOUR PROTECTION, 24" AT PIER 4 OF SN.090-0100 TO NOSE OF PRECAST SCOUR PROTECTION, 24" AT PIER 4 OF SN.090-0092. DUE TO CHANGING CONDITIONS, THE ELEVATION OF THE PROPOSED RIPRAP WILL NEED TO BE ADJUSTED TO MATCH THE CONDITIONS FOUND IN THE FIELD.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	34
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



SECTION C-C THROUGH \odot SN 090-0100

NOTE: ELEVATIONS OF EXISTING FOOTINGS ARE TAKEN FROM EXISTING PLANS. THE ELEVATION OF THE PRECAST SCOUR PROTECTION ABOVE SHALLOW FOOTINGS IS TO BE BASED ON FIELD MEASUREMENTS OF THE DEPTH.

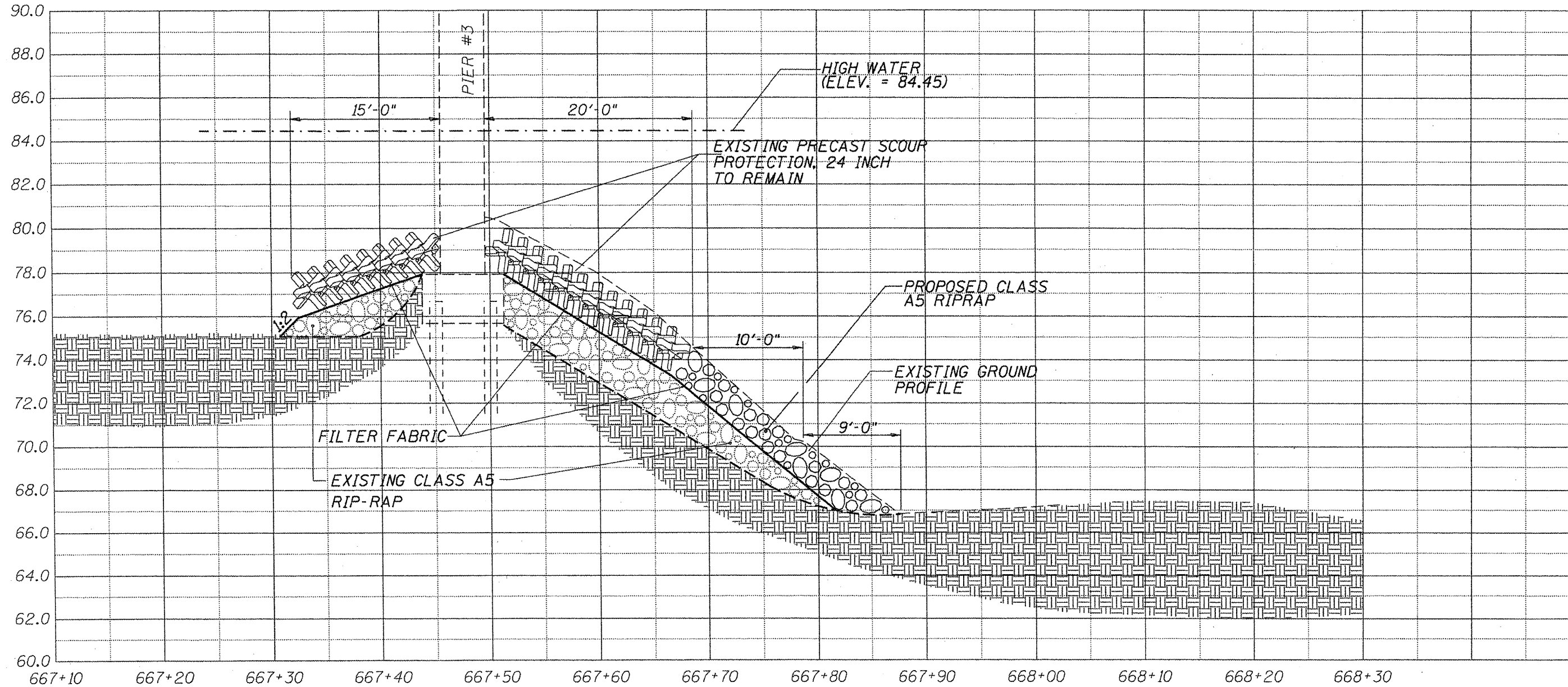
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 090-0092/0100
 F.A.I. 155 (I-155)
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 6 OF 8

SCALE: 1" = 20'

NOTE: PROPOSED RIPRAP SHALL BE PLACED TO FILL IN AREA BETWEEN PRECAST SCOUR PROTECTION, 24" AND EXISTING RIPRAP.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	35
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



SECTION B-B THROUGH \odot SN 090-0092

NOTE: ELEVATIONS OF EXISTING FOOTINGS ARE TAKEN FROM EXISTING PLANS. THE ELEVATION OF THE PRECAST SCOUR PROTECTION ABOVE SHALLOW FOOTINGS IS TO BE BASED ON FIELD MEASUREMENTS OF THE DEPTH.

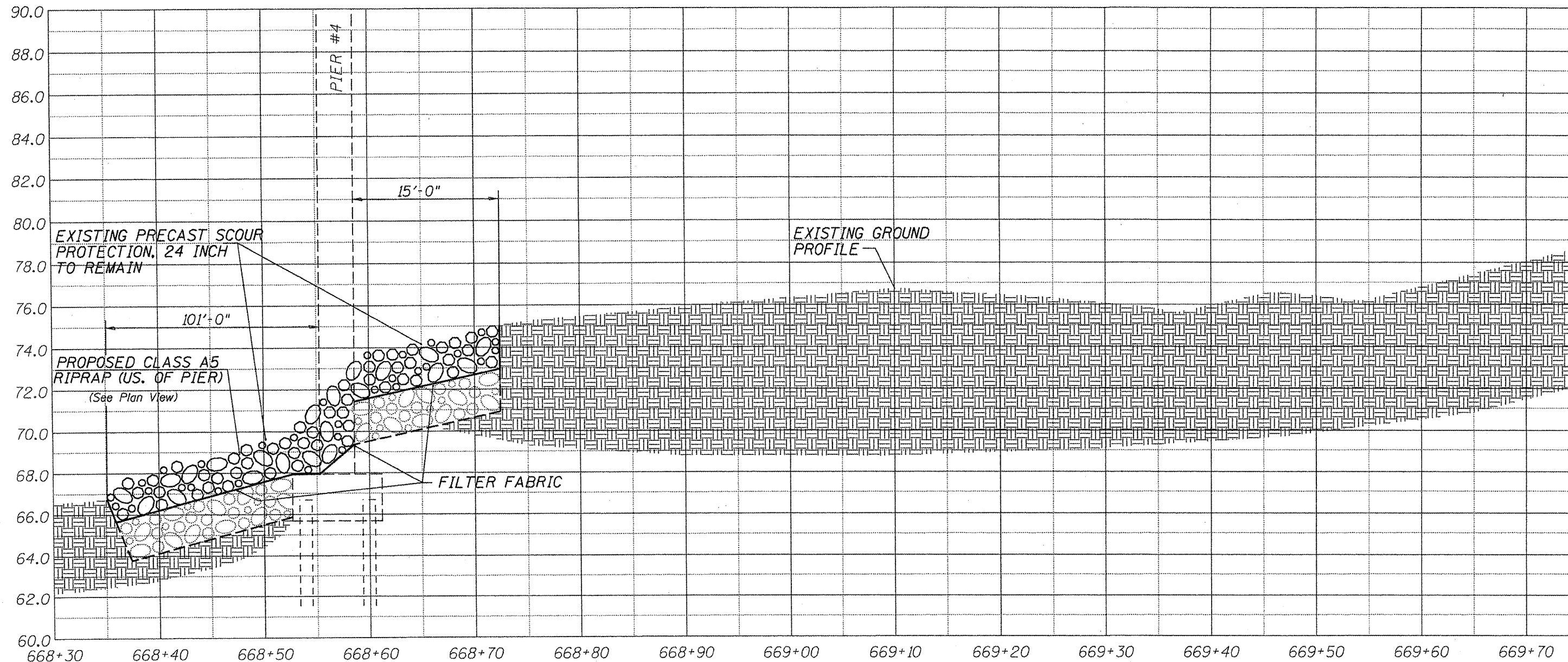
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 090-0092/0100
 F.A.I. 155 (I-155)
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 7 OF 8

SCALE: 1" = 20'

NOTE: RIPRAP TO BE PLACED FROM END OF PRECAST SCOUR PROTECTION, 24" AT PIER 4 OF SN.090-0100 TO NOSE OF PRECAST SCOUR PROTECTION, 24" AT PIER 4 OF SN.090-0092. DUE TO CHANGING CONDITIONS, THE ELEVATION OF THE PROPOSED RIPRAP WILL NEED TO BE ADJUSTED TO MATCH THE CONDITIONS FOUND IN THE FIELD.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	38	36
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**



SECTION D-D THROUGH $\text{\textcircled{C}}$ SN 090-0092

NOTE: ELEVATIONS OF EXISTING FOOTINGS ARE TAKEN FROM EXISTING PLANS. THE ELEVATION OF THE PRECAST SCOUR PROTECTION ABOVE SHALLOW FOOTINGS IS TO BE BASED ON FIELD MEASUREMENTS OF THE DEPTH.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SITE CROSS SECTION
 S.N. 090-0092/0100
 F.A.I. 155 (I-155)
 OVER MACKINAW RIVER
 TAZEWELL COUNTY
 SHEET 8 OF 8

SCALE: 1" = 20'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 693	*	TAZEWELL	38	37
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**

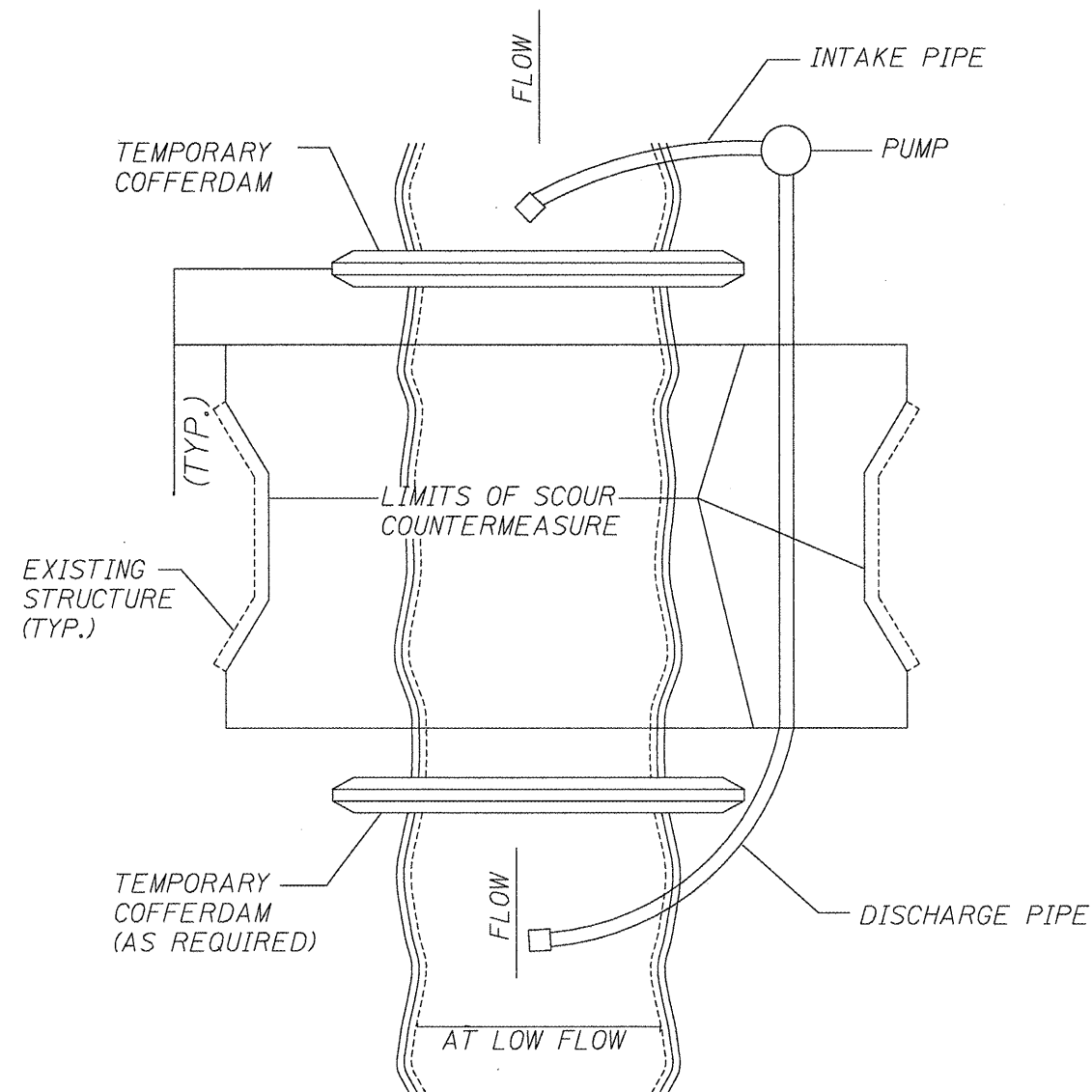


FIGURE D1. TEMPORARY COFFERDAM WITH PUMP BYPASS

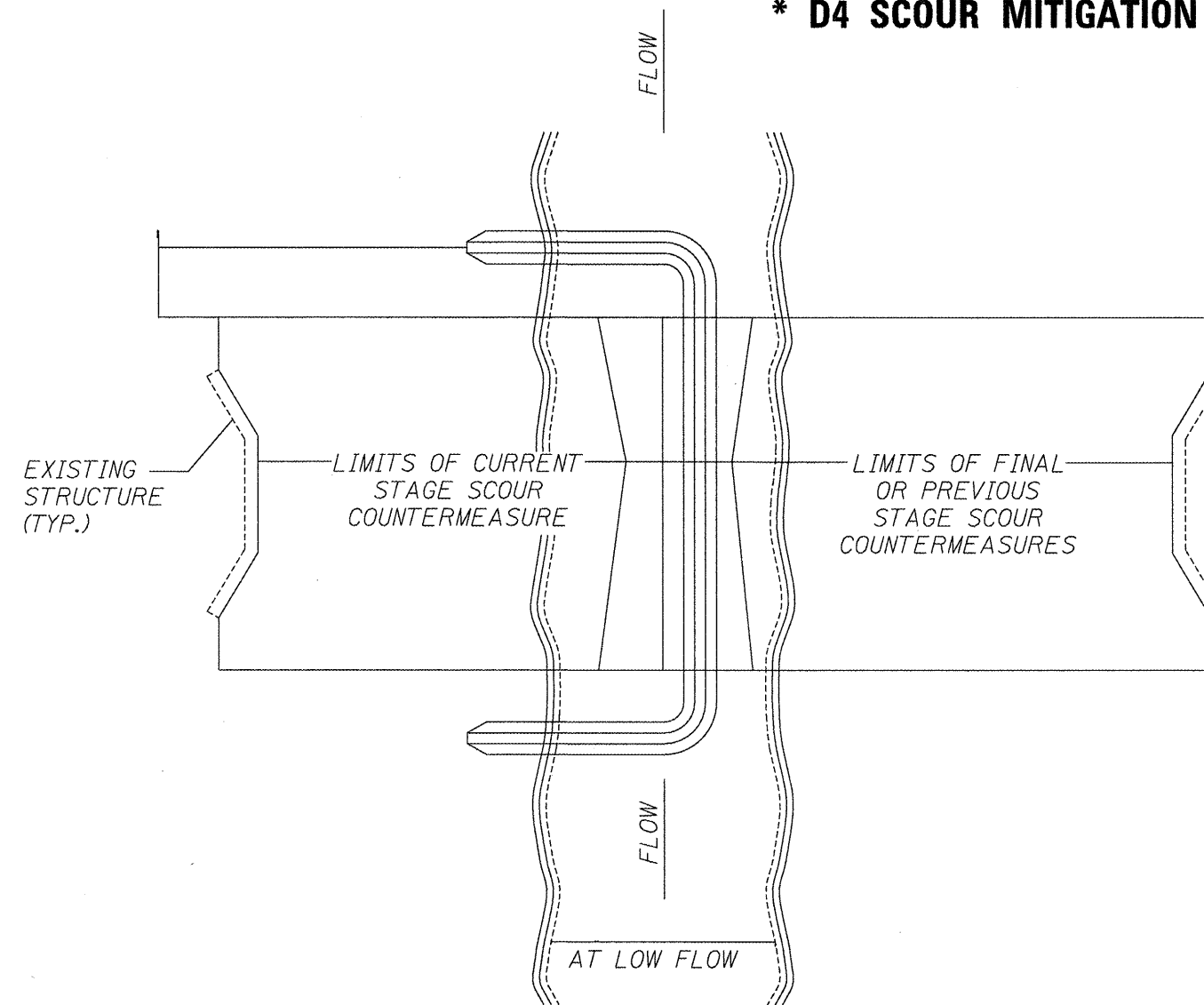


FIGURE D2. STAGED IN-STREAM COFFERDAM DIVISION

NOTE: DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIAL PROVISIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DEWATERING SYSTEM DETAILS
 VARIOUS STRUCTURES
 VARIOUS COUNTIES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 693	*	TAZEWELL	38	38
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

*** D4 SCOUR MITIGATION 2011**

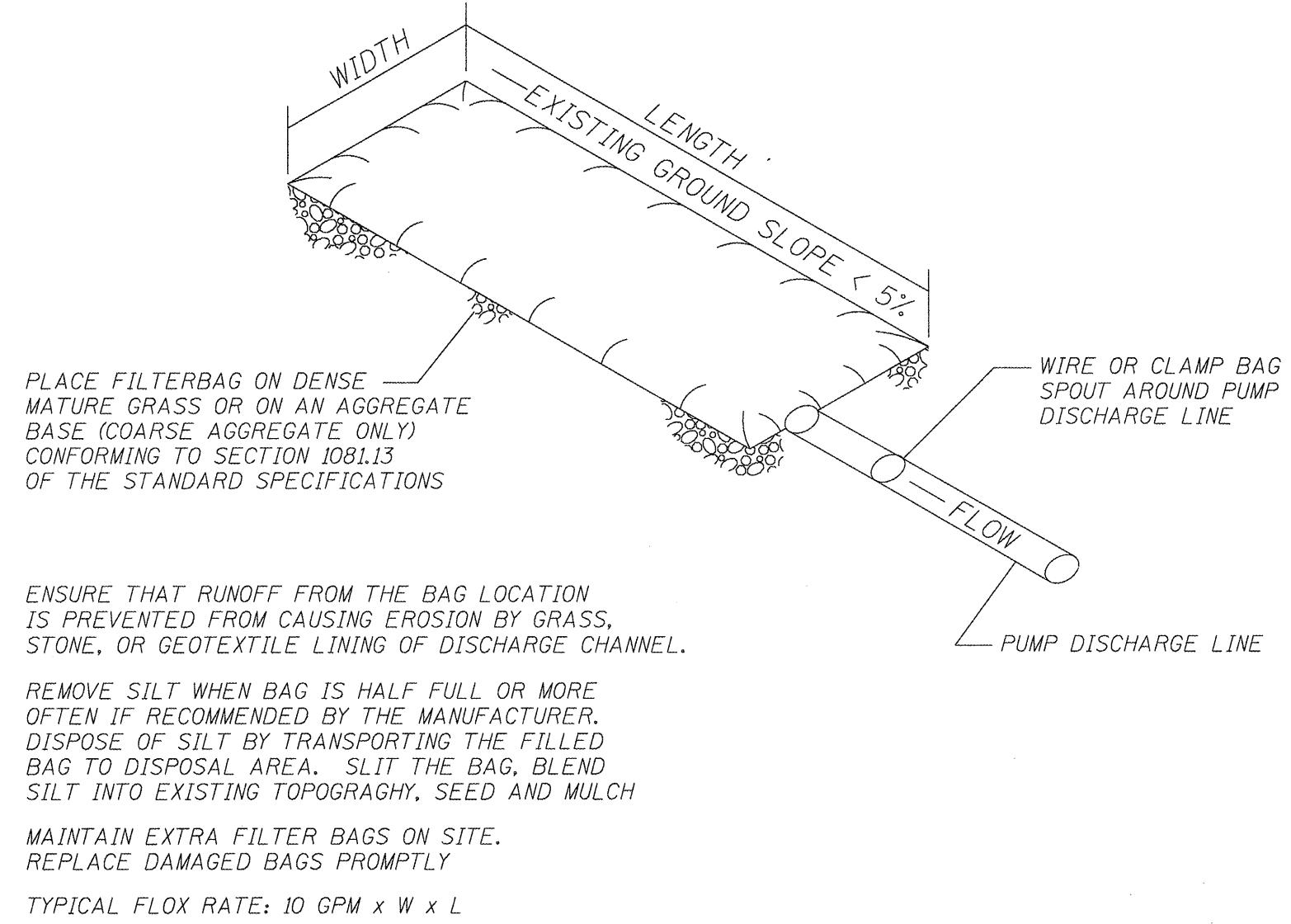


FIGURE S1. SEDIMENT FILTER BAG

NOTE: DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIAL PROVISIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DEWATERING SYSTEM DETAILS
 VARIOUS STRUCTURES
 VARIOUS COUNTIES