

TOWN OF NORMAL, ILLINOIS

BROADWAY AVENUE OVER

SUGAR CREEK

FROM 470 FT NORTH ARCHIE AVENUE

TO 240 FT SOUTH FLORENCE AVENUE

MCLEAN COUNTY

JOB NO. C-95-343-09

SECTION 07-00233-00-BR

FEDERAL PROJECT BRS-5227(054)

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FUNCTIONAL CLASSIFICATION
 LOCAL
 2012 ADT = 1,137
 2032 ADT = 1,387

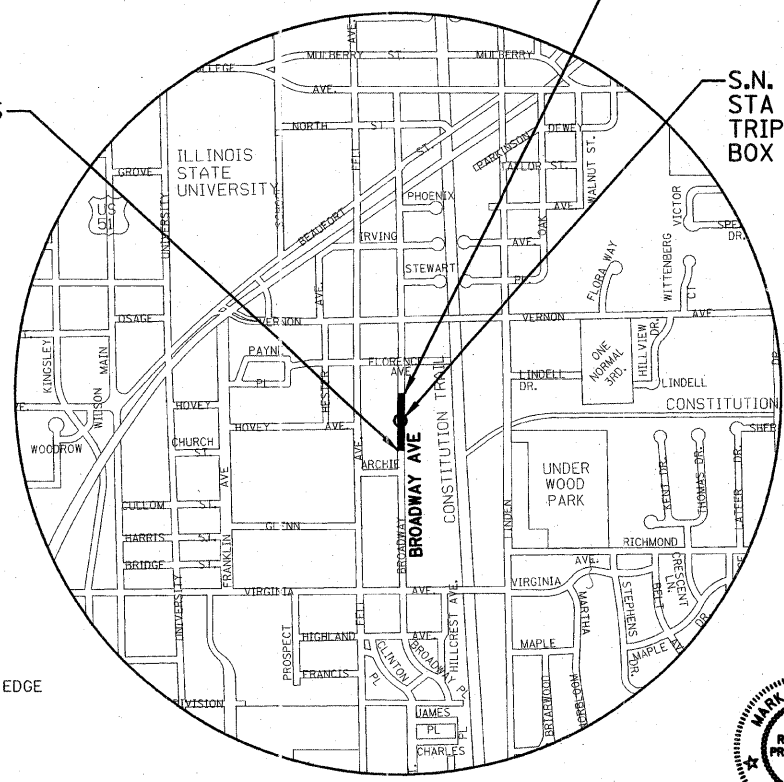
STATE STANDARDS

- 000001-06 STANDARD SYMBOLS ABBREVIATIONS AND PATTERNS
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 420111-03 PCC PAVEMENT ROUNDOUTS
- 420401-08 BRIDGE APPROACH PAVEMENT CONNECTOR
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- 602301-03 INLET - TYPE A
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- 602701-02 MANHOLE STEPS
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- 604036-02 GRATE TYPE B
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- 606401-01 PAVED DITCH
- 701001-02 OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
- 701006-03 OFF ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701501-06 URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
- 701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- B.L.R. 10-6 PCC PAVEMENT SPECIAL (NONREINFORCED)

IMPROVEMENT BEGINS STA 8+30.0

IMPROVEMENT ENDS STA 11+75.0

S.N. 057-7841
 STA 9+95.50, 20° RT FORWARD
 TRIPLE 13'-0"x7'-4" (MIN)
 BOX CULVERT



LOCATION MAP
 NOT TO SCALE
 TOWN OF NORMAL, ILLINOIS
 GROSS AND NET LENGTH BROADWAY AVENUE = 345 FT = 0.065 MILES



Mark S. Wylie Date 2/25/11
 MARK S. WYLIE
 ILLINOIS PROFESSIONAL ENGINEER
 NO. 062-043716
 EXPIRATION 11/30/11

Approved FEBRUARY 25 20 11
Gene C. Brown
 Gene Brown, City Engineer
 Town Of Normal

Passed MARCH 9 20 11
Mark S. Wylie
 District #5 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review March 10, 2011
John
 Deputy Director of Highways, Region #3 Engineer

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

#FILES BY/Town_of_Normal/2008/0080681/Broadway_Ave_Brg/dgn

DESIGNED - BAB/JCZ DRAWN - JTC/JWK CHECKED - MSW DATE - 02/25/11	REVISED - REVISED - REVISED - REVISED -	TOWN OF NORMAL	COVER SHEET	BROADWAY AVENUE OVER SUGAR CREEK SECTION 07-00233-00-BR MCLEAN COUNTY	F.A.U. SECTION COUNTY TOTAL SHEETS SHEET NO. 07-00233-00-BR MCLEAN 40 1 S.N. 057-7841 CONTRACT NO. 91422 FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT
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GENERAL NOTES

1. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE TAKEN TO MEAN THE LATEST EDITION OF THE CITED STANDARD.
2. ALL SAW CUTTING OF EXISTING PAVEMENT SHALL BE INCLUDED IN THE RESPECTIVE REMOVAL PAY ITEMS. A SAW CUT ALONG THE EDGES OF HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SHALL BE SAW CUT WITH SMOOTH STRAIGHT LINES AND SHALL BE INCLUDED IN THE HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH UNIT COST.
3. THE EXISTING ROAD SIGNS THAT INTERFERE WITH THE CONSTRUCTION SHALL BE REMOVED BY THE TOWN OF NORMAL. THE CONTRACTOR SHALL GIVE THE TOWN 48 HOURS NOTICE (EXCLUSIVE OF WEEKENDS OR HOLIDAYS) BEFORE COMMENCING ACTIVITIES REQUIRING SIGN REMOVAL AND/OR RELOCATION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR REMOVE CITY SIGNS.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITY FACILITIES BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR THEIR MARKING OF THE EXACT LOCATIONS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. ANY CHANGE IN STORM SEWER ELEVATIONS/GRADES WILL NOT BE PAID FOR BUT SHALL BE INCLUDED IN THE VARIOUS BID ITEMS.
5. THE TOWN OF NORMAL SHALL PROVIDE ALL PERMANENT STREET SIGNAGE NOT SHOWN.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY (ESPECIALLY THE 24" WATER MAINS) FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. TELEPHONE NUMBER IS 1-800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED. MEMBERS OF J.U.L.I.E. KNOWN TO BE WITHIN THE PROJECT AREA ARE:

TOWN OF NORMAL	AMEREN I.P.	CITY OF BLOOMINGTON
COMCAST CABLE COMPANY	NICOR	
FRONTIER	B.N.W.R.D.	

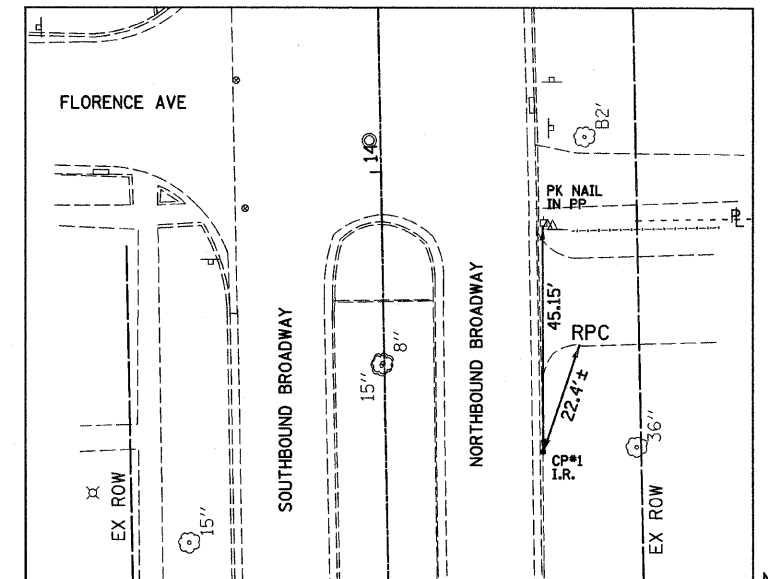
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE PROJECT. EXISTING INLETS/MANHOLES TO BE REMOVED SHALL REMAIN IN PLACE AND ACTIVE UNTIL THE PROPOSED INLETS/MANHOLES ARE CONSTRUCTED AND ACTIVATED TO PROVIDE SUITABLE DRAINAGE.
8. TREES OR BUSHES SHALL BE SAVED WHERE POSSIBLE. THE CONTRACTOR SHALL MEET WITH THE TOWN AND RESIDENT ENGINEER PRIOR TO ANY TREE OR BUSH TRIMMING OR REMOVAL OPERATIONS.

UTILITY AGENCIES THAT RECEIVED PLANS

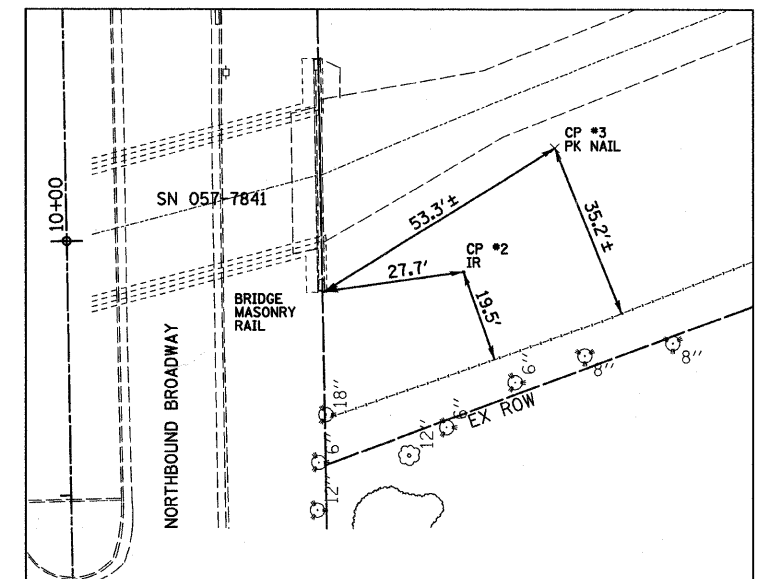
	PRE-FINAL PLANS SENT	FINAL PLANS SENT
TOWN OF NORMAL ENGINEERING	FEBRUARY 3, 2011	FEBRUARY 25, 2011
TOWN OF NORMAL WATER DEPARTMENT	FEBRUARY 3, 2011	FEBRUARY 25, 2011
AMEREN ILLINOIS POWER	FEBRUARY 3, 2011	FEBRUARY 25, 2011
NICOR GAS	FEBRUARY 3, 2011	FEBRUARY 25, 2011
COMCAST	FEBRUARY 3, 2011	FEBRUARY 25, 2011
CORNBELT ENERGY COMPANY	FEBRUARY 3, 2011	FEBRUARY 25, 2011
FRONTIER	FEBRUARY 3, 2011	FEBRUARY 25, 2011
BNWRD	FEBRUARY 3, 2011	FEBRUARY 25, 2011
CITY OF BLOOMINGTON WATER DEPARTMENT	FEBRUARY 3, 2011	FEBRUARY 25, 2011

BENCHMARKS:

1. STA 3+91.91, 33.9' LT
TOP OF FIRE HYDRANT
NORTH CORNER OF ARCHIE AVE
WEST SIDE OF BROADWAY AVE
ELEV=779.29 (BK 2675/61)
2. STA 8+01.7, 33.0' LT
TOP OF FIRE HYDRANT
WEST SIDE BROADWAY AVE
100'± SOUTH OF BRIDGE
IN FRONT OF HOUSE #903
ELEV=770.29 (BK 2675/61)
3. STA 14+40.29, 37.3' LT
TOP OF FIRE HYDRANT
NORTH CORNER OF BROADWAY
TERRACE, WEST SIDE OF
BROADWAY AVE
ELEV=774.52 (BK 2675/61)



CONTROL TIE #1
I.R. W/CAP #5
STA 13+44.4, 30.8' RT
N 1,398,077.35
E 802,883.71



CONTROL TIE #2
I.R. W/CAP
STA 9+92.6, 77.6' RT
N 1,397,726.43
E 802,936.71

CONTROL TIE #3
NAIL
STA 10+16.7, 96.0' RT
N 1,397,750.80
E 802,954.60

BASELINE COORDINATES

STATION	NORTHING	EASTING
8+00.00	1,397,532.45	802,862.48
10+00.00	1,397,732.42	802,858.96
12+00.00	1,397,932.39	802,855.44

#FILED #
 DATE #
 AT Town of Normal, Illinois 61704
 02/25/11
 00808881 Broadway Ave Brd/dgn

DESIGNED - BAB/JCZ	REVISED -
DRAWN - JTC/JWK	REVISED -
CHECKED - MSW	REVISED -
DATE - 02/25/11	REVISED -

TOWN OF NORMAL

GENERAL NOTES, CONTROL TIES AND BENCHMARKS

**BROADWAY AVENUE OVER SUGAR CREEK
SECTION 07-00233-00-BR
MCLEAN, COUNTY**

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	2
S.N. 057-7841			CONTRACT NO. 91422	
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. 2 OF 40 SHEETS STA. 8+30 TO STA. 11+75

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8175

CODE NO.	PAY ITEM	UNIT	TOTAL	CONSTRUCTION CODES	
				0004 ROADWAY	0011 STRUCTURE 057-7841
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	8	8	
* 20200100	EARTH EXCAVATION	CU YD	266	266	
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	408		408
20700220	POROUS GRANULAR EMBANKMENT	CU YD	500		500
20800150	TRENCH BACKFILL	CU YD	160	160	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	200	200	
* 21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	182	182	
25000110	SEEDING, CLASS 1A	ACRE	0.4	0.4	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	36	36	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	36	36	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	36	36	
25100115	MULCH, METHOD 2	ACRE	0.4	0.4	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	880	880	
28000400	PERIMETER EROSION BARRIER	FOOT	150	150	
28000500	INLET AND PIPE PROTECTION	EACH	13	13	
* 31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	1,100	1,100	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100	100	
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	10	10	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	20	20	
42001300	PROTECTIVE COAT	SQ YD	1,810	1,810	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	200	200	
* 42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	1,375	1,375	
* 42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	230	230	
* 44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	80	80	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,150	1,150	
44000600	SIDEWALK REMOVAL	SQ FT	1,700	1,700	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50104650	SLOPE WALL REMOVAL	SQ YD	324		324
50300225	CONCRETE STRUCTURES	CU YD	29.0		29.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	131.8		131.8
50300260	BRIDGE DECK GROOVING	SQ YD	417		417
50300300	PROTECTIVE COAT	SQ YD	610		610
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	138,560		138,560
* 51100300	SLOPE WALL 6 INCH	SQ YD	691		691
51500100	NAME PLATES	EACH	1		1
54003000	CONCRETE BOX CULVERTS	CU YD	555.1		555.1
* 550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	210	210	
* 550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	30	30	

* SPECIAL PROVISION

CODE NO.	PAY ITEM	UNIT	TOTAL	CONSTRUCTION CODES	
				0004 ROADWAY	0011 STRUCTURE 057-7841
55100300	STORM SEWER REMOVAL 8"	FOOT	35	35	
55100400	STORM SEWER REMOVAL 10"	FOOT	220	220	
55100500	STORM SEWER REMOVAL 12"	FOOT	120	120	
* 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	6	6	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	10	10	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1	1	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	3	3	
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3	
* 60266600	VALVE BOXES TO BE ADJUSTED	EACH	3	3	
60500060	REMOVING INLETS	EACH	6	6	
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	830	830	
61139900	STORM SEWERS, (SPECIAL), 6"	FOOT	50	50	
61140000	STORM SEWERS, (SPECIAL), 8"	FOOT	50	50	
61140100	STORM SEWERS, (SPECIAL), 10"	FOOT	50	50	
61140200	STORM SEWERS, (SPECIAL), 12"	FOOT	50	50	
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* Z0026407	TEMPORARY SHEET PILING	SQ FT	2,485		2,485
* Z0034100	MASONRY WALL CONSTRUCTION	SQ FT	165		165
* LR420029	PORTLAND CEMENT CONCRETE PAVEMENT 8" (SPECIAL)	SQ YD	1,200	1,200	
Δ X0323200	SANITARY SEWER, DUCTILE IRON, 12"	FOOT	65	65	
* X0323221	PLUG AND ABANDON EXISTING PIPE	CU YD	3.5	3.5	
* X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	408		408
* X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	80	80	
* X4404400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	1,475	1,475	
Δ X5091765	PIPE HANDRAIL, SPECIAL	FOOT	102		102
* X5504200	DUCTILE IRON STORM SEWER, 12 INCH	FOOT	110	110	
* X6020076	INLETS, SPECIAL, WITH SPECIAL FRAME AND GRATE	EACH	4	4	
* X6022230	MANHOLES, TYPE A, 4' DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	2	2	
* X6022810	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	
* XX008532	STORM SEWER, DUCTILE IRON, 14 INCH	FOOT	95	95	
* XX008533	STORM SEWER, DUCTILE IRON, 16 INCH	FOOT	90	90	

* SPECIAL PROVISION

Δ SPECIALTY ITEMS

FILED & DATED & BY
 02/25/11
 Town of Normal/2008-0080681 Broadway Ave Br/g/dn

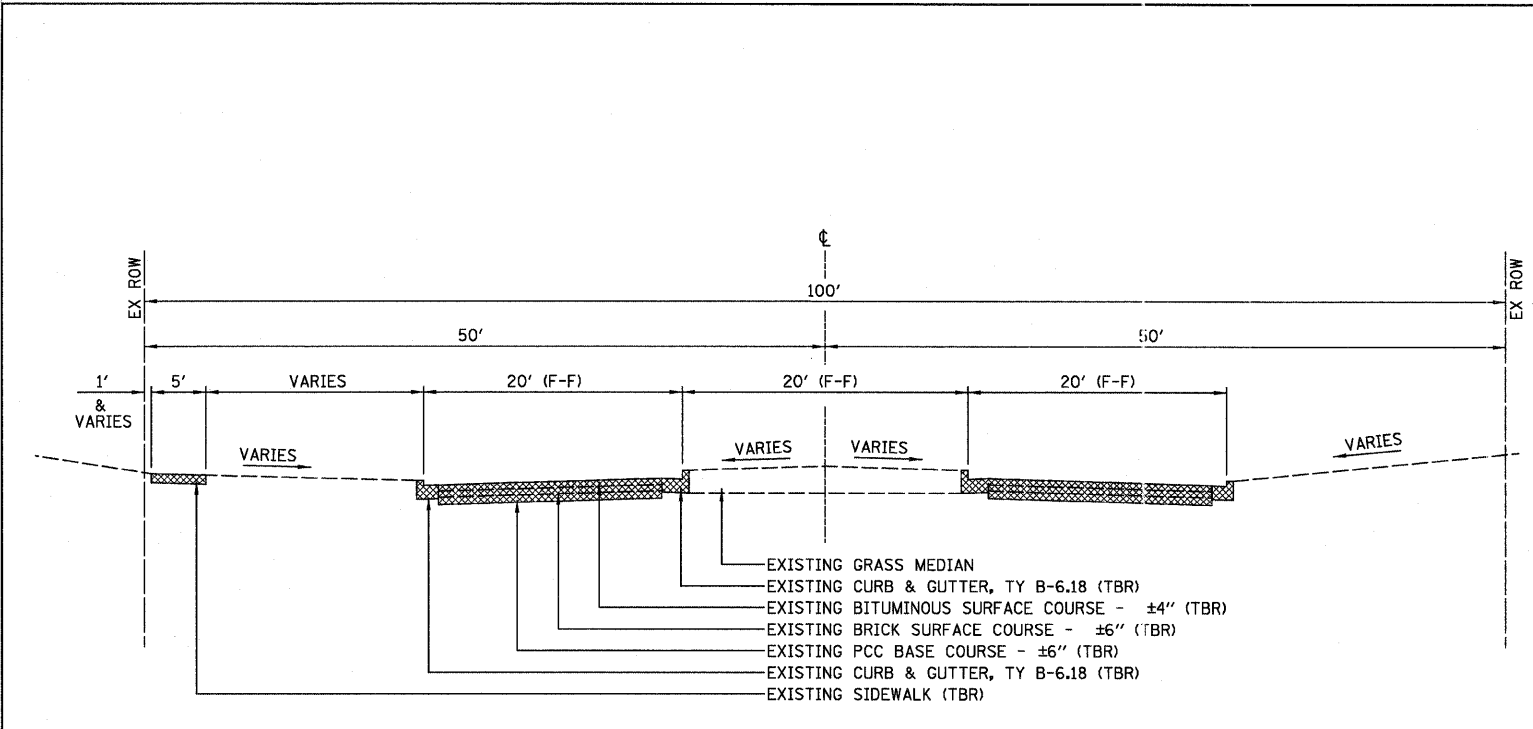
DESIGNED - BAB/JCZ	REVISED -
DRAWN - JTC/JWK	REVISED -
CHECKED - MSW	REVISED -
DATE - 02/25/11	REVISED -

TOWN OF NORMAL

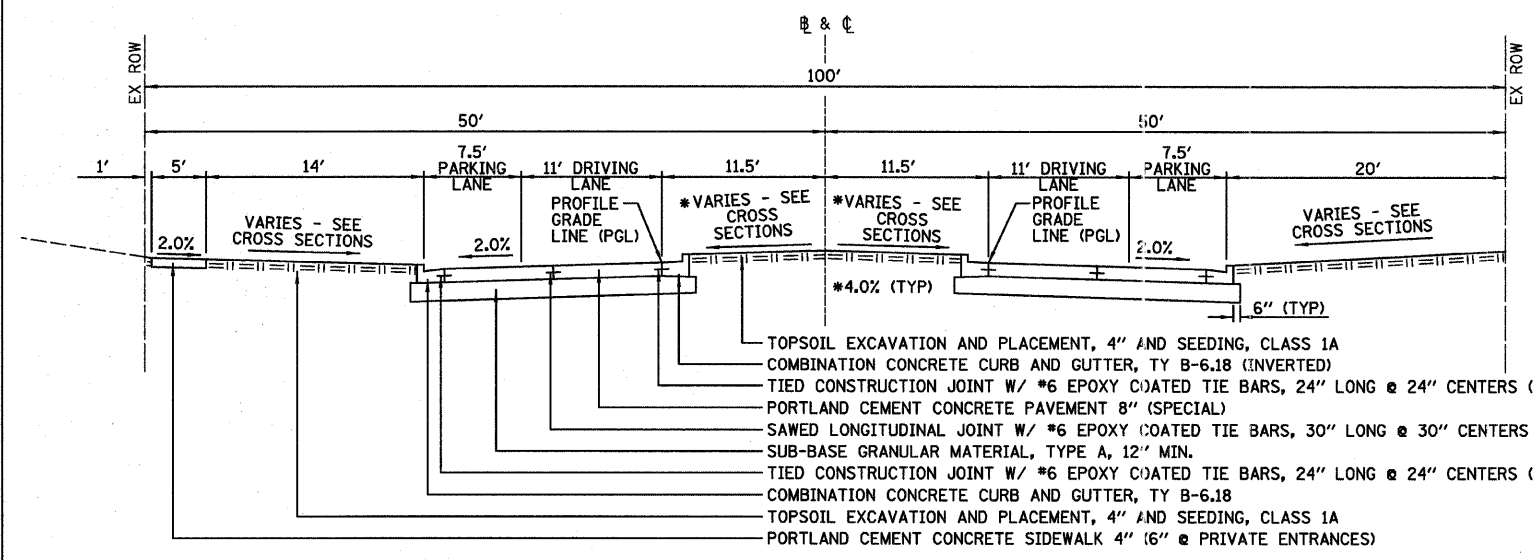
SUMMARY OF QUANTITIES

**BROADWAY AVENUE OVER SUGAR CREEK
SECTION 07-00233-00-BR
MCLEAN, COUNTY**

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	3
S.N. 057-7841			CONTRACT NO. 91422	
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION
BROADWAY AVENUE**
SEE SCHEDULE OF QUANTITIES FOR LOCATIONS OF REMOVAL



**PROPOSED TYPICAL SECTION
BROADWAY AVENUE**
STA 8+30.0 TO STA 11+75.0
CULVERT OMISSION STA 9+30.0 TO STA 10+60.0

LEGEND

EXISTING		PROPOSED	
●	IRON ROD	=====	COMBINATION CONCRETE CURB & GUTTER TYPE B-6.18
○	BENCHMARK	⊙	MANHOLE TY A
⊥	SIGN	— —	STORM SEWER
⊥	MAILBOX	▬	CURB INLET OR MANHOLE
⊥	STREET LIGHT	▬	P.C. CONCRETE DRIVEWAY - 6"
⊥	POWER POLE	⊗	TREE TO BE REMOVED
⊥	DOWN GUY	▬	SIDEWALK TO BE REMOVED
⊥	ELECTRIC HANDHOLE	▬	COMBINATION CURB & GUTTER TO BE REMOVED
⊥	FIRE HYDRANT	▬	SIDEWALK, P.C. CONCRETE - 4"
⊥	WATER VALVE	▬	SIDEWALK, P.C. CONCRETE - 6"
⊥	GAS VALVE	⊙	ITEM TO BE ADJUSTED
⊥	TELEPHONE PEDESTAL	▬	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
⊥	WOODEN POST	▬	DRIVEWAY PAVEMENT REMOVAL
⊥	CATCH BASIN		
⊥	INLET		
⊥	MANHOLE		
⊥	FLARED END SECTION		
⊥	EVERGREEN TREE		
⊥	BUSH		
—	RIGHT OF WAY LINE		
—	CENTERLINE		
—	CONTOUR		
—	FENCE		
—	SANITARY SEWER		
—	STORM SEWER		
—	WATERMAIN		
—	OVERHEAD ELECTRIC		
—	GASMAIN		
—	FIBER OPTIC		
—	UNDERGROUND ELECTRIC		
—	UNDERGROUND TELEPHONE		
—	APPROXIMATE SIDE YARD PROPERTY LINE LOCATION		

MIXTURE TABLE

MIXTURE USE	INCIDENTAL HOT-MIX ASPHALT SURFACING
AC/PG	PG 64-22
RAP % (MAX)	15
DESIGN AIR VOIDS	4.0% @ NDES=50
MIX COMP (GRADATION)	IL-9.5
FRICTION AGGREGATE	MIX C

ABBREVIATIONS

CL	CLASS
CLID	CLOSED LID
D.I.	DUCTILE IRON
FL	FLOW LINE
FR	FRAME
GR	GRATE
INL	INLET
MH	MANHOLE
OLID	OPEN LID
PGL	PROFILE GRADE LINE
SS	STORM SEWER
TBF	TRENCH BACKFILL
TBR	TO BE REMOVED
TC	TOP OF CURB
TG	TOP OF GRATE
TL	TRANSIT LINE
TLID	TOP OF LID
T. RIM	TOP OF RIM
TY	TYPE
TYP	TYPICAL

**BROADWAY AVENUE
DESIGN DESIGNATION**
FUNCTIONAL CLASSIFICATION: LOCAL
2012 ADT: 1,137 ; 2032 ADT: 1,387
T.F.=0.50
PAVEMENT = 8" P.C. CONCRETE
DESIGN SPEED: 30 MPH

#FILE# 02/25/11
 #DATE# 02/25/11
 #TIME# 10:00 AM
 #DRAWN# JTC/JWK
 #CHECKED# MSW
 #DESIGNED# BAB/JCZ
 #PROJECT# 07-00233-00-BR
 #SHEET# 4 OF 40
 #CONTRACT# 91422

DESIGNED - BAB/JCZ	REVISED -	TOWN OF NORMAL	TYPICAL CROSS SECTIONS AND LEGEND				BROADWAY AVENUE OVER SUGAR CREEK SECTION 07-00233-00-BR MCLEAN, COUNTY				F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - JTC/JWK	REVISED -		SCALE: N.T.S.	SHEET NO. 4 OF 40 SHEETS	STA. 8+30	TO STA. 11+75	07-00233-00-BR	MCLEAN	40	4					
CHECKED - MSW	REVISED -						S.N. 057-7841				CONTRACT NO. 91422				
DATE - 02/25/11	REVISED -						FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT								

20200100 - EARTH EXCAVATION & 21101505 - TOPSOIL EXCAVATION AND PLACEMENT										
LOCATION	EARTH EXCAVATION (CU YD)	TOPSOIL IN CUT (CU YD)	TOPSOIL IN FILL (CU YD)	EARTH EXC. ADJUSTED FOR TOPSOIL (CU YD) Δ	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE * (CU YD)	EMBANKMENT (CU YD)	EMBANKMENT ADJUSTED FOR TOPSOIL (CU YD)	WASTE (+) OR BORROW (-) (CU YD)	TOPSOIL (SQ YD)	TOPSOIL (CU YD) Δ
BROADWAY AVENUE	191	75	107	266	200	128	21	+179	1,465	182
TOTALS	191	75	107	266	200	128	21	+179	1,465	182

Δ PAY ITEM * SHRINKAGE FACTOR = 25%

42400100 - PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH		
STATION	TO STATION	SQ FT
8+29 LT	8+45 LT	80
8+60 LT	9+55 LT	475
10+02 LT	10+74 LT	360
10+86 LT	11+25 LT	195
11+43 LT	11+79 LT	180
11+57.5 LT	11+61.5 LT	54
CONTINGENCY		31
TOTAL		1,375

SEEDING, FERTILIZER NUTRIENT, AND MULCH							
STATION	TO STATION	25000110 - SEEDING, CLASS 1A (ACRE)	25000400 - NITROGEN FERTILIZER NUTRIENT (POUND)	25000500 - PHOSPHORUS FERTILIZER NUTRIENT (POUND)	25000600 - POTASSIUM FERTILIZER NUTRIENT (POUND)	25100115 - MULCH, METHOD 2 (ACRE)	28000250 - TEMPORARY EROSION CONTROL SEEDING (POUND)
8+30 LT	11+75 LT	0.2	18	18	18	0.2	440
8+30 RT	11+75 RT	0.2	18	18	18	0.2	440
TOTAL		0.4	36	36	36	0.4	880

42400300 - PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH		
STATION	TO STATION	SQ FT
8+45 LT	8+60 LT	75
10+74 LT	10+86 LT	60
11+25 LT	11+43 LT	90
CONTINGENCY		5
TOTAL		230

20100110 - TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
STATION TO STATION	UNIT
9+77.9 RT	8
TOTAL	8

28000500 - INLET AND PIPE PROTECTION	
STATION	EACH
8+40 LT	1
8+65.5 LT	1
8+88 RT	1
9+15 LT	1
9+25 RT	1
9+26.2 LT	1
9+34.5 LT	1
10+47 LT	1
10+88.5 RT	1
10+88.5 RT	1
10+92 LT	1
11+05 LT	1
11+18 LT	1
TOTAL	13

40800010 - BITUMINOUS MATERIALS (PRIME COAT)	
STATION	GAL
8+25 LT & RT	4
11+80 LT & RT	4
CONTINGENCY	2
TOTAL	10

44000200 - DRIVEWAY PAVEMENT REMOVAL	
STATION	SQ YD
8+52.5 LT	25
10+80 LT	18
11+34 LT	33
CONTINGENCY	4
TOTAL	80

20800150 - TRENCH BACKFILL		
STATION	TO STATION	CU YD
8+40 LT	8+65.5 LT	6
8+88 RT	9+25.5 RT	7
8+94 RT	9+25 RT	6
9+15 LT	9+26.2 LT	2
9+25.5 RT	9+85 RT	15
10+05 LT	10+52 LT	16
10+06 LT	10+47 LT	62
10+11 LT	10+52 LT	8
10+28 RT	10+88.5 RT	12
10+30 RT	10+44 RT	5
10+47 LT	10+92 LT	5
10+92 LT	11+18 LT	11
CONTINGENCY		5
TOTAL		160

40800050 - INCIDENTAL HOT-MIX ASPHALT SURFACING	
STATION	TON
8+25 LT & RT	9
11+80 LT & RT	9
CONTINGENCY	2
TOTAL	20

44000500 - COMBINATION CURB AND GUTTER REMOVAL		
STATION	TO STATION	FOOT
8+30 LT	9+77 LT	147
8+30 RT	9+92 RT	162
8+30	8+86	120
9+33	9+87	115
10+07 LT	11+75 LT	168
10+13	10+59	95
10+22 RT	11+75 RT	153
10+98	11+75	165
CONTINGENCY		25
TOTAL		1,150

31100100 - SUB-BASE GRANULAR MATERIAL, TYPE A	
STATION TO STATION	TON
BROADWAY AVENUE	1,067
CONTINGENCY	33
TOTAL	1,100

42001300 - PROTECTIVE COAT		
STATION	TO STATION	SQ YD
8+29 LT	9+55 LT	417
8+30 RT	9+52 RT	421
10+02 LT	11+79 LT	557
10+53 RT	11+75 RT	374
CONTINGENCY		41
TOTAL		1,810

28000400 - PERIMETER EROSION BARRIER		
STATION	TO STATION	FOOT
9+20 RT	9+90 RT	72
10+09 LT	10+35 LT	26
10+35 RT	10+75 RT	40
CONTINGENCY		12
TOTAL		150

40201000 - AGGREGATE FOR TEMPORARY ACCESS	
STATION	TON
CONTINGENCY	100
TOTAL	100

42300200 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	
STATION	SQ YD
8+52.5 LT	31
9+07.0 RT	61
10+80.0 LT	22
11+34.0 LT	36
11+63.0 RT	42
CONTINGENCY	8
TOTAL	200

44000600 - SIDEWALK REMOVAL		
STATION	TO STATION	SQ FT
8+29 LT	9+73 LT	720
8+91.8 RT	8+95.4 RT	20
10+04 LT	11+79 LT	875
11+57.5 LT	11+61.5 LT	54
CONTINGENCY		31
TOTAL		1,700

550A0050 - STORM SEWERS, CLASS A, TYPE 1 1/2"		
STATION	TO STATION	FOOT
8+40 LT	8+65.5 LT	23
8+65.5 LT	9+34.5 LT	65
8+88 RT	9+25.5 RT	36
9+25.5 RT	9+25.5 RT	8
9+25.5 RT	9+85 RT	58
10+88.5 RT	10+88.5 RT	9
CONTINGENCY		11
TOTAL		210

NOTE:
DOMESTIC WATER SERVICE BOXES
TO BE ADJUSTED ARE ESTIMATED.
NO LOCATIONS WERE IDENTIFIED
IN THE FIELD.

#FILE# 04/11/11
 #DATE# 02/25/11
 #BY# JTC/JWK
 #CHECKED# MSW
 #DESIGNED# BAB/JCZ
 #PROJECT# 07-00233-00-BR
 #SHEET# 5 OF 40

DESIGNED - BAB/JCZ	REVISED -
DRAWN - JTC/JWK	REVISED -
CHECKED - MSW	REVISED -
DATE - 02/25/11	REVISED -

TOWN OF NORMAL		SCHEDULE OF QUANTITIES	
SCALE: N.T.S.		SHEET NO. 5 OF 40 SHEETS	
STA. 8+30		TO STA. 11+75	

BROADWAY AVENUE OVER SUGAR CREEK SECTION 07-00233-00-BR MCLEAN, COUNTY	
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F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	5
S.N. 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 (ILLINOIS) FED. AID PROJECT				

550A0360 - STORM SEWERS, CLASS A, TYPE 2 15"		
STATION	TO STATION	FOOT
9+34.5 LT	9+60 LT	24
CONTINGENCY		6
TOTAL		30

55100300 - STORM SEWER REMOVAL 8"		
STATION	TO STATION	FOOT
8+94 RT	9+25 RT	30
CONTINGENCY		5
TOTAL		35

55100400 - STORM SEWER REMOVAL 10"		
STATION	TO STATION	FOOT
9+25 RT	9+95 RT	70
10+10 LT	10+52 LT	50
10+05 LT	10+52 LT	46
10+22 RT	10+44 RT	23
10+35 RT	10+44 RT	24
CONTINGENCY		7
TOTAL		220

55100500 - STORM SEWER REMOVAL 12"		
STATION	TO STATION	FOOT
8+66 LT	9+78 LT	112
9+26 LT	9+32 LT	7
CONTINGENCY		1
TOTAL		120

59300100 - CONTROLLED LOW-STRENGTH MATERIAL		
STATION	TO STATION	CU YD
9+40 LT	9+55 LT	3
10+00 LT	10+15 LT	3
CONTINGENCY		4
TOTAL		10

60218300 - MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID		
STATION	TO STATION	EACH
8+65.5 LT		1
9+34.5 LT		1
TOTAL		2

60218400 - MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID		
STATION	TO STATION	EACH
11+18.0 LT		1
TOTAL		1

60221700 - MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE		
STATION	TO STATION	EACH
10+47.0 LT		1
TOTAL		1

60236200 - INLETS, TYPE A, TYPE 8 GRATE		
STATION	TO STATION	EACH
8+40 LT		1
10+88.5 RT		1
11+05 LT		1
TOTAL		3

60255500 - MANHOLES TO BE ADJUSTED		
STATION	TO STATION	EACH
9+11 LT		1
9+19 LT		1
9+63 RT		1
TOTAL		3

60266600 - VALVE BOXES TO BE ADJUSTED		
STATION	TO STATION	EACH
9+54 LT		1
10+26 LT		1
10+63 LT		1
TOTAL		3

60500060 - REMOVING INLETS		
STATION	TO STATION	EACH
8+65 LT		1
8+94 RT		1
9+25 RT		1
9+27 LT		1
10+44 RT		1
10+52 LT		1
TOTAL		6

60604400 - COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18		
STATION	TO STATION	FOOT
8+30 LT	9+31 LT	101
8+30 RT	9+52 RT	122
8+30	8+85	120
9+32	9+46	31
10+39 LT	11+75 LT	136
10+45	10+58	28
10+60 RT	11+75 RT	115
10+98	11+75	165
CONTINGENCY		12
TOTAL		830

LR420029 - PORTLAND CEMENT CONCRETE PAVEMENT 8" (SPECIAL)		
STATION	TO STATION	SQ YD
8+31 LT	9+38 LT	271
8+30 RT	9+52 RT	301
10+39 LT	11+75 LT	317
10+53 RT	11+75 RT	285
CONTINGENCY		26
TOTAL		1,200

X0323200 - SANITARY SEWER, DUCTILE IRON, 12"		
STATION	TO STATION	FOOT
9+63	10+23	61
CONTINGENCY		4
TOTAL		65

X0323221 - PLUG AND ABANDON EXISTING PIPE		
STATION	TO STATION	CU YD
10+12 LT	11+18 LT	3.0
CONTINGENCY		0.5
TOTAL		3.5

X4401198 - HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH		
STATION	TO STATION	SQ YD
8+25 LT & RT		38
11+80 LT & RT		38
CONTINGENCY		4
TOTAL		80

X4404400 - PAVEMENT REMOVAL (SPECIAL)		
STATION	TO STATION	SQ YD
8+30 LT	9+82 LT	358
8+30 RT	9+92 RT	377
10+08 LT	11+75 LT	372
10+18 RT	11+75 RT	353
CONTINGENCY		15
TOTAL		1,475

X5504200 - DUCTILE IRON STORM SEWER, 12 INCH		
STATION	TO STATION	FOOT
8+65.5 LT	8+65.5 LT	4
9+15 LT	9+26.2 LT	8
9+26.2 LT	9+34.5 LT	9
10+28 RT	10+88.5 RT	60
10+92 LT	11+05 LT	15
CONTINGENCY		14
TOTAL		110

X6020076 - INLETS, SPECIAL, WITH SPECIAL FRAME AND GRATE		
STATION	TO STATION	EACH
8+88.0 RT		1
9+15.0 LT		1
9+25.5 RT		1
10+88.5 RT		1
TOTAL		4

X6022230 - MANHOLES, TYPE A 4'- DIAMETER, WITH SPECIAL FRAME AND GRATE		
STATION	TO STATION	EACH
9+26.2 LT		1
10+92.0 LT		1
TOTAL		2

X6022810 - MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID		
STATION	TO STATION	EACH
10+23		1
10+85		1
TOTAL		2

XX008532 - DUCTILE IRON STORM SEWER, 14 INCH		
STATION	TO STATION	FOOT
10+06 LT	10+47 LT	90
CONTINGENCY		5
TOTAL		95

XX008533 - DUCTILE IRON STORM SEWER, 16 INCH		
STATION	TO STATION	FOOT
10+47 LT	10+92 LT	43
10+92 LT	11+18 LT	38
CONTINGENCY		9
TOTAL		90

NOTE:
DOMESTIC WATER SERVICE BOXES
TO BE ADJUSTED ARE ESTIMATED.
NO LOCATIONS WERE IDENTIFIED
IN THE FIELD.

#FILE# 81706
 #DATE# 02/25/11
 #DRAWN BY# JWC
 #CHECKED BY# MSW
 #DESIGNED BY# BAB/JCZ
 #DATE# 02/25/11

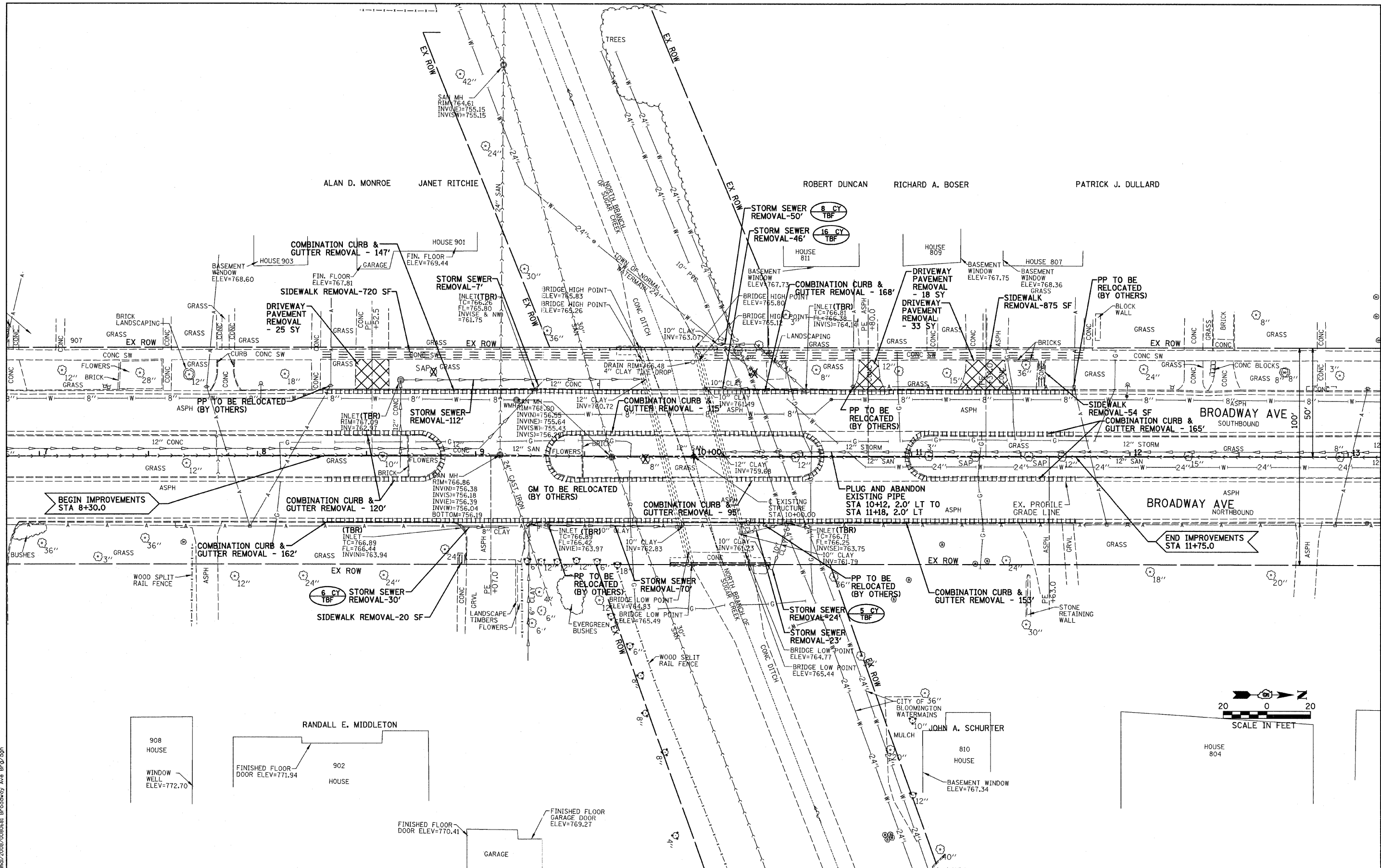
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DRAWN - JWC/JWK	REVISED -
CHECKED - MSW	REVISED -
DATE - 02/25/11	REVISED -

TOWN OF NORMAL	
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SCHEDULE OF QUANTITIES			
SCALE: N.T.S.	SHEET NO. 6 OF 40 SHEETS	STA. 8+30	TO STA. 11+75

BROADWAY AVENUE OVER SUGAR CREEK SECTION 07-00233-00-BR MCLEAN, COUNTY	
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F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	6
S.N. 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT				



ALAN D. MONROE JANET RITCHIE ROBERT DUNCAN RICHARD A. BOSER PATRICK J. DULLARD

BEGIN IMPROVEMENTS
STA 8+30.0

END IMPROVEMENTS
STA 11+75.0

\$TIME\$
 \$DATE\$
 D:\town_of_normal\2008\0808081 Broadway Ave Brd\08p

DESIGNED -	BAB/JCZ	REVISED -	
DRAWN -	JTC/JWK	REVISED -	
CHECKED -	MSW	REVISED -	
DATE -	02/25/11	REVISED -	

TOWN OF NORMAL

REMOVAL PLAN

SCALE: 1"=20' SHEET NO. 8 OF 40 SHEETS STA. 8+30 TO STA. 11+75

BROADWAY AVENUE OVER SUGAR CREEK
SECTION 07-00233-00-BR
MCLEAN COUNTY

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	8
S.N. 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

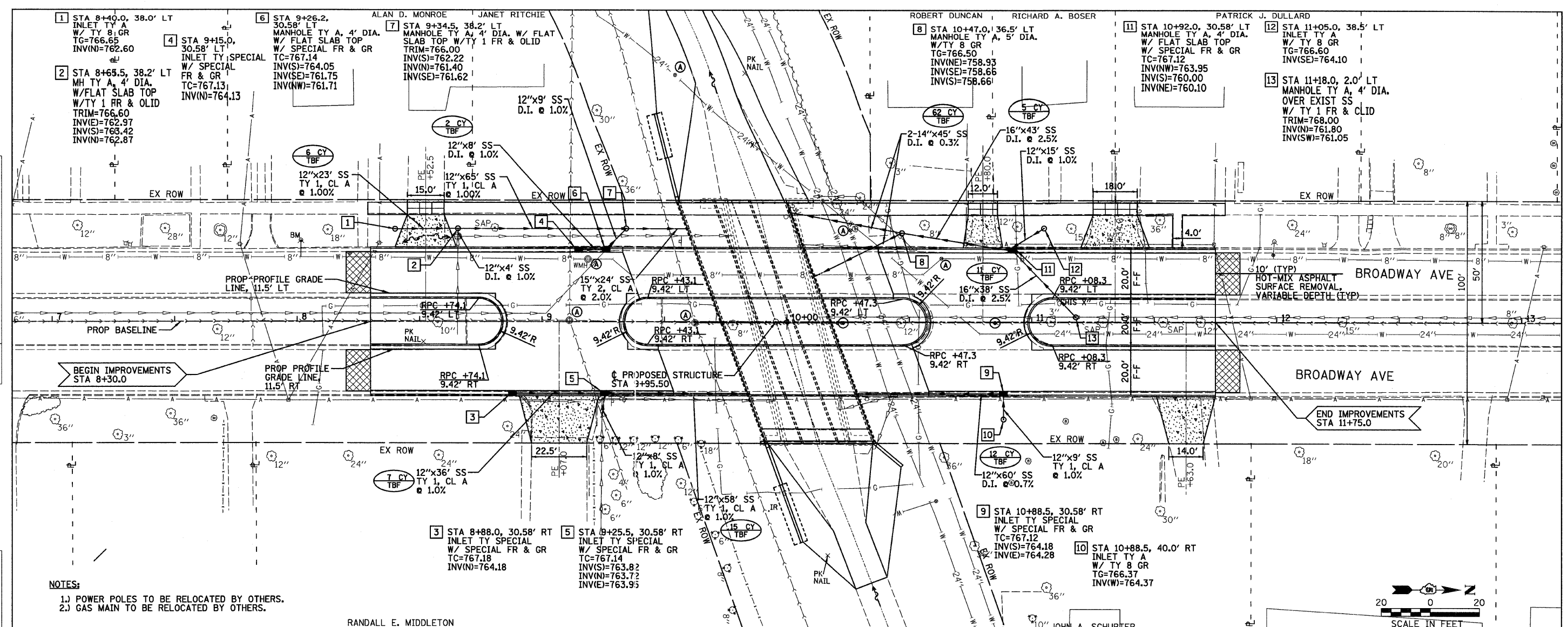
FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

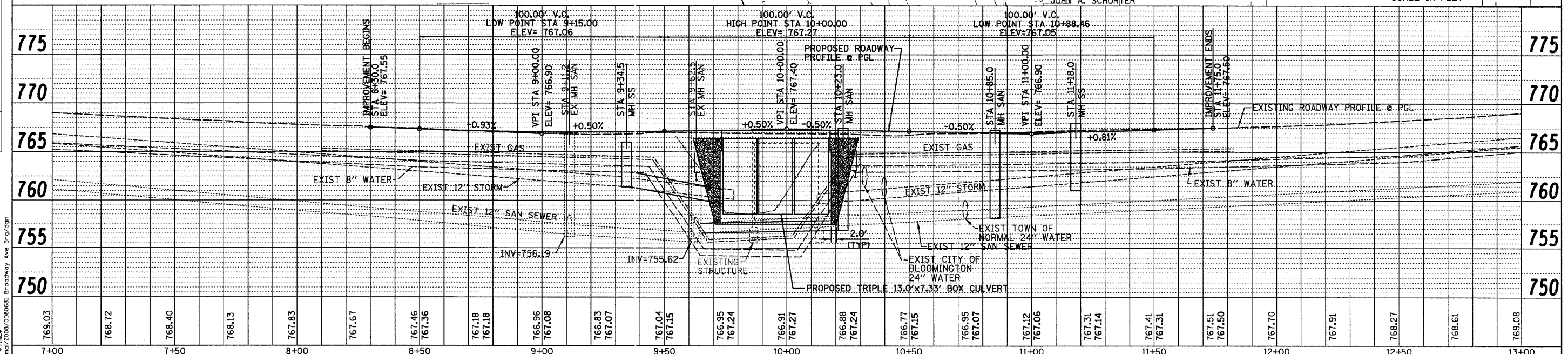
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DATE	
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REVISION	
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PLAN	
NO.	
NOTE BOOK	
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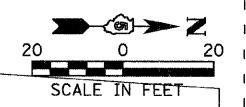
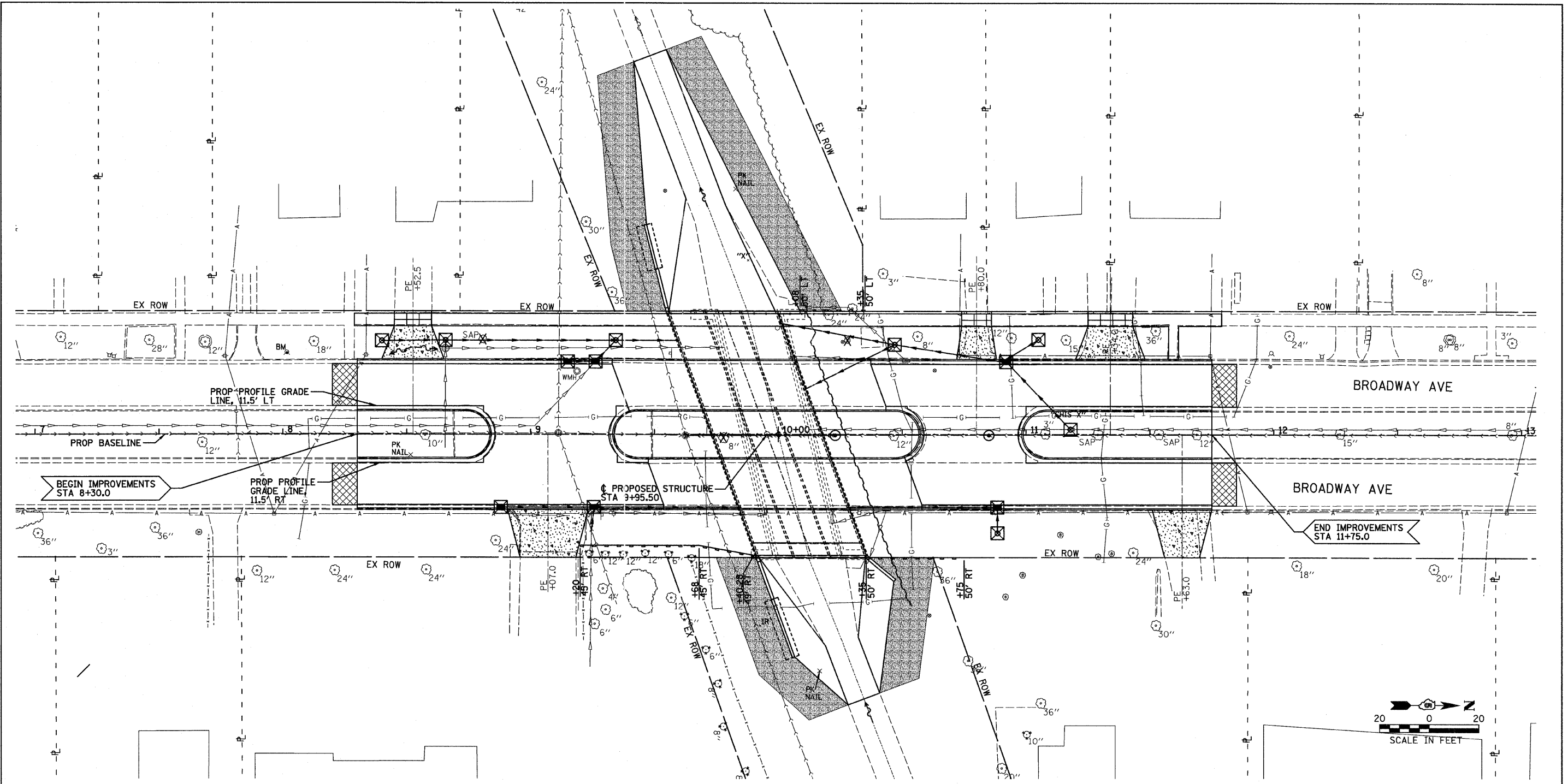
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PROFILE	
NO.	
NOTE BOOK	
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CHECKED	
DATE	



- NOTES:**
- 1.) POWER POLES TO BE RELOCATED BY OTHERS.
 - 2.) GAS MAIN TO BE RELOCATED BY OTHERS.

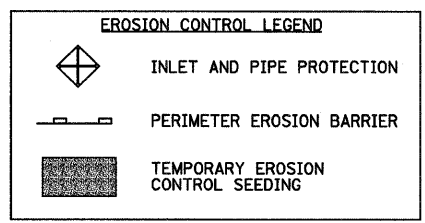


769.03	768.72	768.40	768.13	767.83	767.67	767.46	767.36	767.18	767.18	766.96	767.08	766.83	767.07	767.04	767.15	766.95	767.24	766.91	767.27	766.88	767.24	766.77	767.15	766.95	767.07	767.12	767.06	767.31	767.14	767.41	767.31	767.51	767.50	767.70	767.91	768.27	768.61	769.08
7+00	7+50	8+00	8+50	9+00	9+50	10+00	10+50	11+00	11+50	12+00	12+50	13+00																										



INTENDED SEQUENCE

1. INSTALL PERIMETER EROSION BARRIER ACCORDING TO STATE STANDARD 280001.
2. REMOVE EXISTING INLETS, STORM SEWERS, PAVEMENT, SIDEWALK, DRIVEWAYS, STRUCTURE, PAVED DITCH AND PERFORM EARTHWORK AS SHOWN ON THE PLANS.
3. APPLY TEMPORARY EROSION CONTROL SEEDING TO ERODIBLE / BARE AREAS ACCORDING TO SECTION 208 OF THE STANDARD SPECIFICATIONS UNTIL CONSTRUCTION IS COMPLETE.
4. CONSTRUCT NEW INLETS, STORM SEWERS, PAVEMENT, SIDEWALK, DRIVEWAYS, STRUCTURES, PAVED DITCH, AND OTHER WORK AS SHOWN ON THE PLANS.
5. INSTALL INLET AND PIPE PROTECTION, AS SHOWN ON THE PLANS.
6. APPLY PERMANENT SEEDING, FERTILIZER NUTRIENTS, AND MULCH, ACCORDING TO THE SPECIAL PROVISIONS.

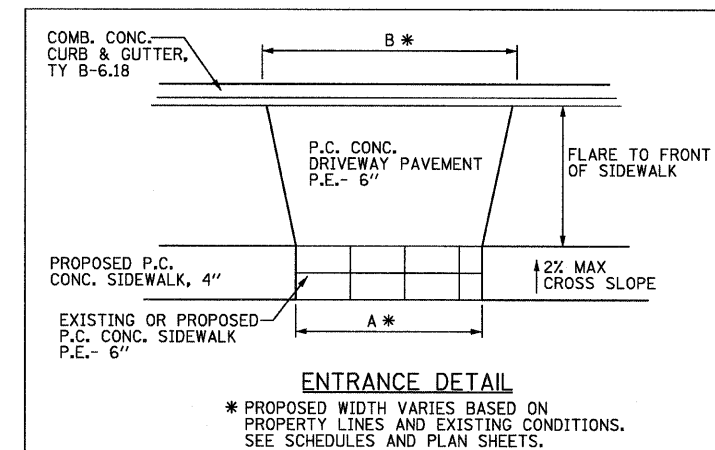
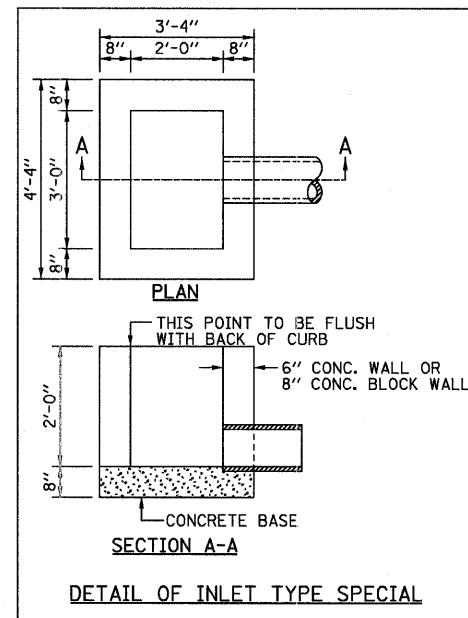
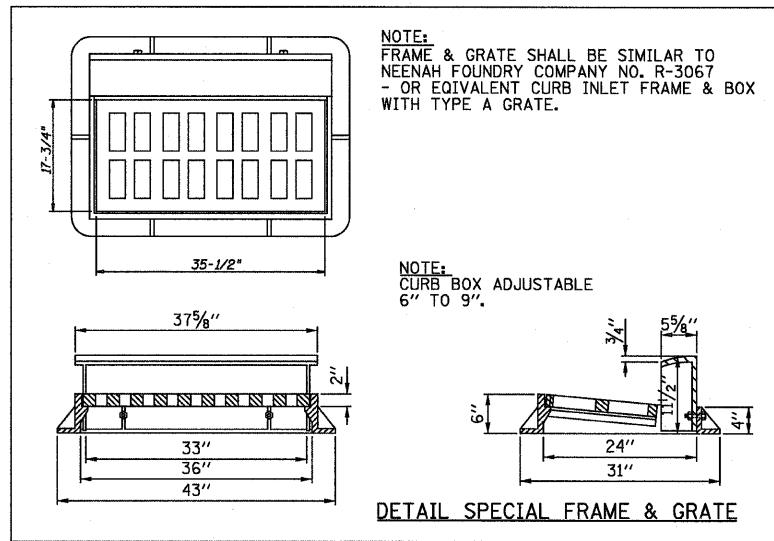


#FILE# 04/11/11
 #DATE# 02/25/11
 #DRAWN# JTC/JWK
 #CHECKED# MSW
 #DESIGNED# BAB/JCZ
 #DATE# 02/25/11
 #PROJECT# 07-00233-00-BR
 #SHEET# 11 OF 40

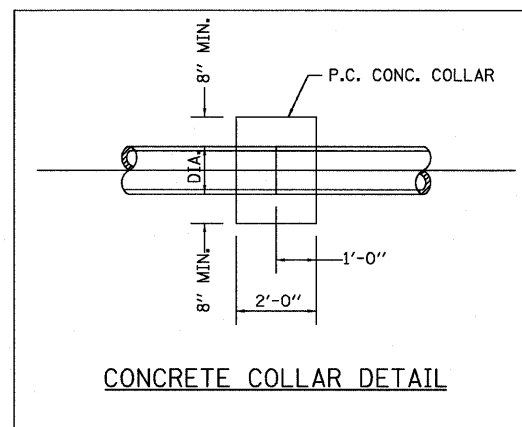
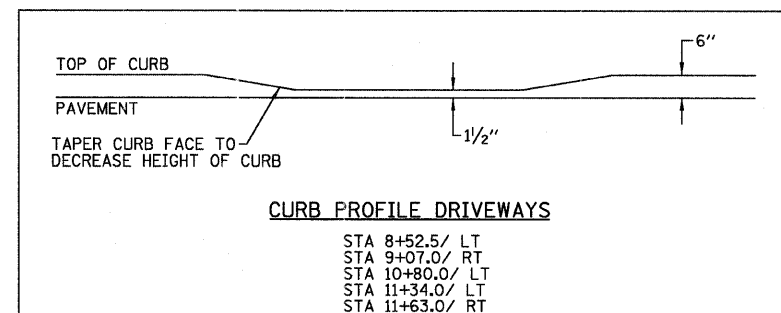
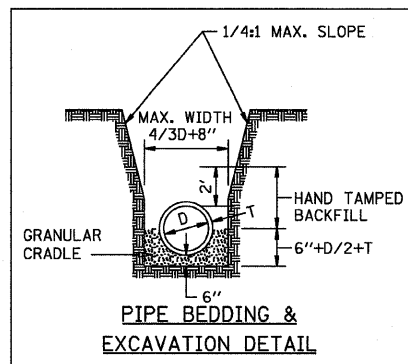
DESIGNED - BAB/JCZ	REVISED -
DRAWN - JTC/JWK	REVISED -
CHECKED - MSW	REVISED -
DATE - 02/25/11	REVISED -

TOWN OF NORMAL		EROSION CONTROL PLAN "SWPPP"		BROADWAY AVENUE OVER SUGAR CREEK	
				SECTION 07-00233-00-BR	
				MCLEAN COUNTY	
				CONTRACT NO. 91422	
				S.N. 057-7841	
				FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT	

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	11
			CONTRACT NO. 91422	
S.N. 057-7841				
FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT				



STATION	TYPE	A	B
8+52.5, LT	PE	15.0'	25.0'
9+07.0, RT	PE	22.5'	32.5'
10+80.0, LT	PE	12.0'	16.0'
11+34.0, LT	PE	18.0'	28.0'
11+63.0, RT	PE	14.0'	24.0'



#FILE# 81TME#
#DATE# 02/25/11
P:\townofnormal\2008\0080881 Broadway Ave Br/dgn

DESIGNED -	BAB/JCZ	REVISED -	
DRAWN -	JTC/JWK	REVISED -	
CHECKED -	MSW	REVISED -	
DATE -	02/25/11	REVISED -	

TOWN OF NORMAL

MISCELLANEOUS DETAILS

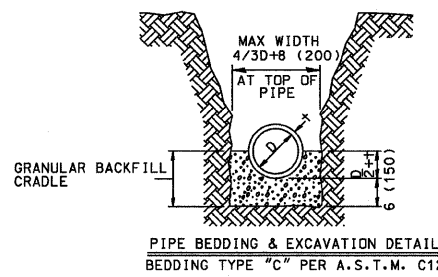
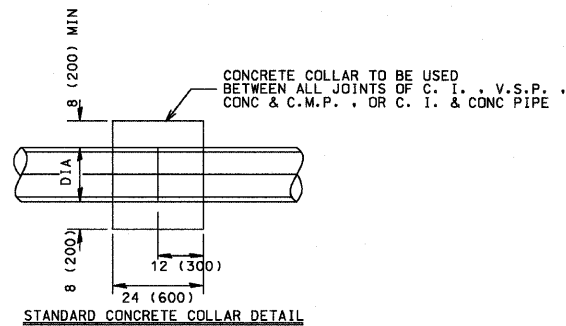
BROADWAY AVENUE OVER SUGAR CREEK
SECTION 07-00233-00-BR
MCLEAN, COUNTY

F.A.J.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	12
	S.N. 057-7841		CONTRACT NO. 91422	
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

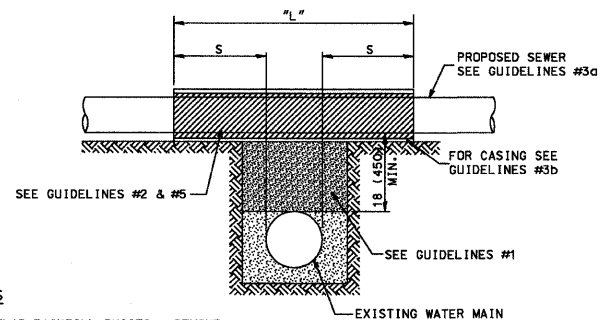
FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8175



PROPOSED SEWER LINE WITH 18 (450) MINIMUM VERTICAL SEPARATION ABOVE EXISTING WATER MAIN

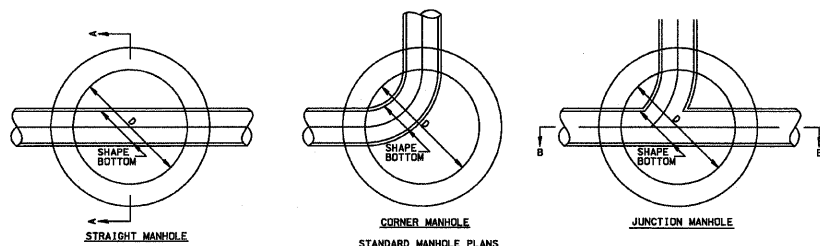


GUIDELINES

1. IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
2. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO 12 (300) OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
3. a. CONSTRUCT "L" OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR b. USE "L" OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
5. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10' (3m) OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN.

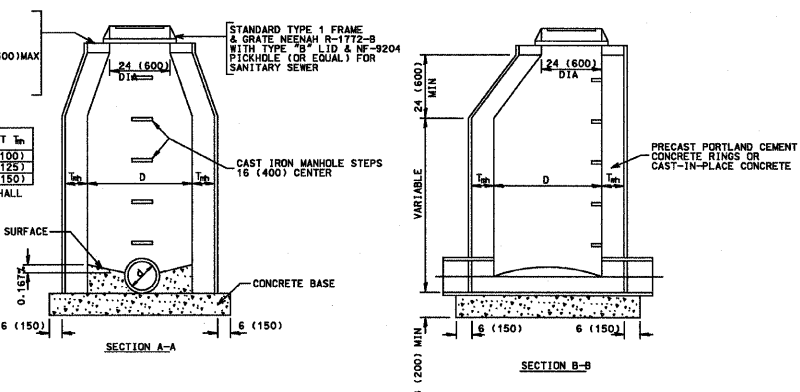
All dimensions are in inches (millimeters) unless otherwise shown.



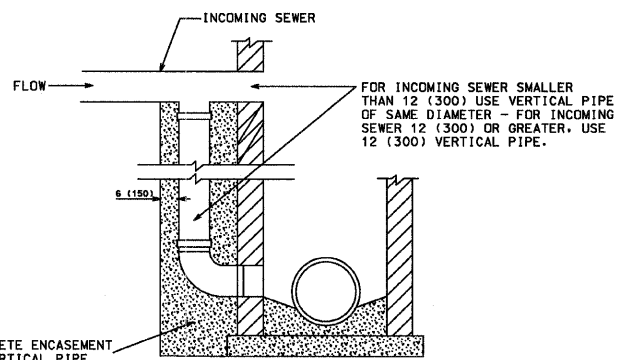
FINAL ADJUSTMENT TO BE MADE WITH PRECAST ADJUSTING RINGS OR WITH BRICKS LAID RADIALLY & MORTARED. ADJUSTMENT RANGE: 4 (100)MIN - 16 (400)MAX. MASTIC IS NOT PERMITTED ON ADJUSTING RINGS.

DIA OF SEWER	DIA OF MANHOLE	PRECAST IN.
8 (200) THRU 30 (750)	48 (1200)	4 (100)
33 (825) THRU 48 (1200)	60 (1500)	5 (125)
54 (1350)	72 (1800)	6 (150)

ALL CAST-IN-PLACE MANHOLES SHALL BE 1/2" = 150 (6) THICK.



All dimensions are in inches (millimeters) unless otherwise shown.



DROP MANHOLE CONNECTION

NOTES

PAYMENT FOR DROP MANHOLE CONNECTION TO BE MADE AT CONTRACT UNIT PRICE PER EACH "DROP MANHOLE CONNECTION".

TO BE USED IN CONJUNCTION WITH TYPE "A" MANHOLES WHERE SEWER ENTERS 24 (600) OR MORE ABOVE LOWEST INVERT. NOT TO BE USED FOR INLET OR CATCH BASIN CONNECTION.

THIS DETAIL APPLIES TO INCOMING SEWERS OF 18 (450) DIA. OR LESS.

GENERAL SANITARY SEWER NOTES:

1. THIS CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
 - a. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", 6TH EDITION, DATED JULY, 2009.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES AND HAVING ALL UNDERGROUND UTILITIES PROPERLY LOCATED PRIOR TO ANY CONSTRUCTION.
3. ALL UTILITY TRENCHES SHALL BE BACKFILLED WITH SELECTED GRANULAR MATERIAL, WHERE THE TRENCH IS UNDER OR WITHIN 2 FEET OF PROPOSED OR EXISTING CURB, PAVEMENT OR SIDEWALK.
4. ALL DUCTILE IRON (D.I.) SANITARY SEWER MAIN SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
 - a. CLASS 52 DUCTILE IRON PIPE PER AWWA C-150 WITH A 40 MIL THICK, FACTORY APPLIED, CERAMIC EPOXY INTERIOR LINING. INTERIOR LINING SHALL BE PROTECTO 401; OR APPROVED EQUAL.
 - b. RUBBER GASKETS PER AWWA C-111.
 - c. PUSH-ON JOINTS PER AWWA C-151.
 - d. PIPE SHALL BE WRAPPED IN A MINIMUM 8 MIL THICK POLYETHYLENE FILM PER ANSI/AWWA C-105/A21.5-02.
5. BEDDING - CLASS IB. GRANULAR CRADLE & BACKFILL; THE BEDDING AND HAUNCHING MATERIAL SHALL BE CRUSHED STONE WITH A SIZE RANGE 3/4" - 1/4" WHICH MEETS THE REQUIREMENTS OF I.D.O.T. GRADUATION CA-11 AND THAT THE BEDDING SHALL HAVE A MINIMUM BEDDING CLASS OF CLASS B WHICH RESULTS IN A MINIMUM SAFETY FACTOR OF 1.20 AS CALCULATED PER ASTM C 12-04.
5. TESTING AND INSPECTION OF SANITARY SEWERS FOR ACCEPTABILITY SHALL BE CONDUCTED BY:
 - a. EXFILTRATION OF AIR UNDER PRESSURE
 - b. LAMPING
 - c. TELEVISION
6. ALL SANITARY MANHOLES SHALL BE 4 FEET IN DIAMETER. LEAKAGE TESTING OF ALL MANHOLES SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C1244-93, VOL. 4.05.

FILE # 84786
 # DATE 02/25/11
 # BY JTC/JWK
 # TOWN OF NORMAL, ILLINOIS
 # BROADWAY AVENUE OVER SUGAR CREEK

DESIGNED -	BAB/JCZ	REVISED -	
DRAWN -	JTC/JWK	REVISED -	
CHECKED -	MSW	REVISED -	
DATE -	02/25/11	REVISED -	

TOWN OF NORMAL

STANDARD MANHOLE DETAILS - SANITARY
STANDARD 7.07A

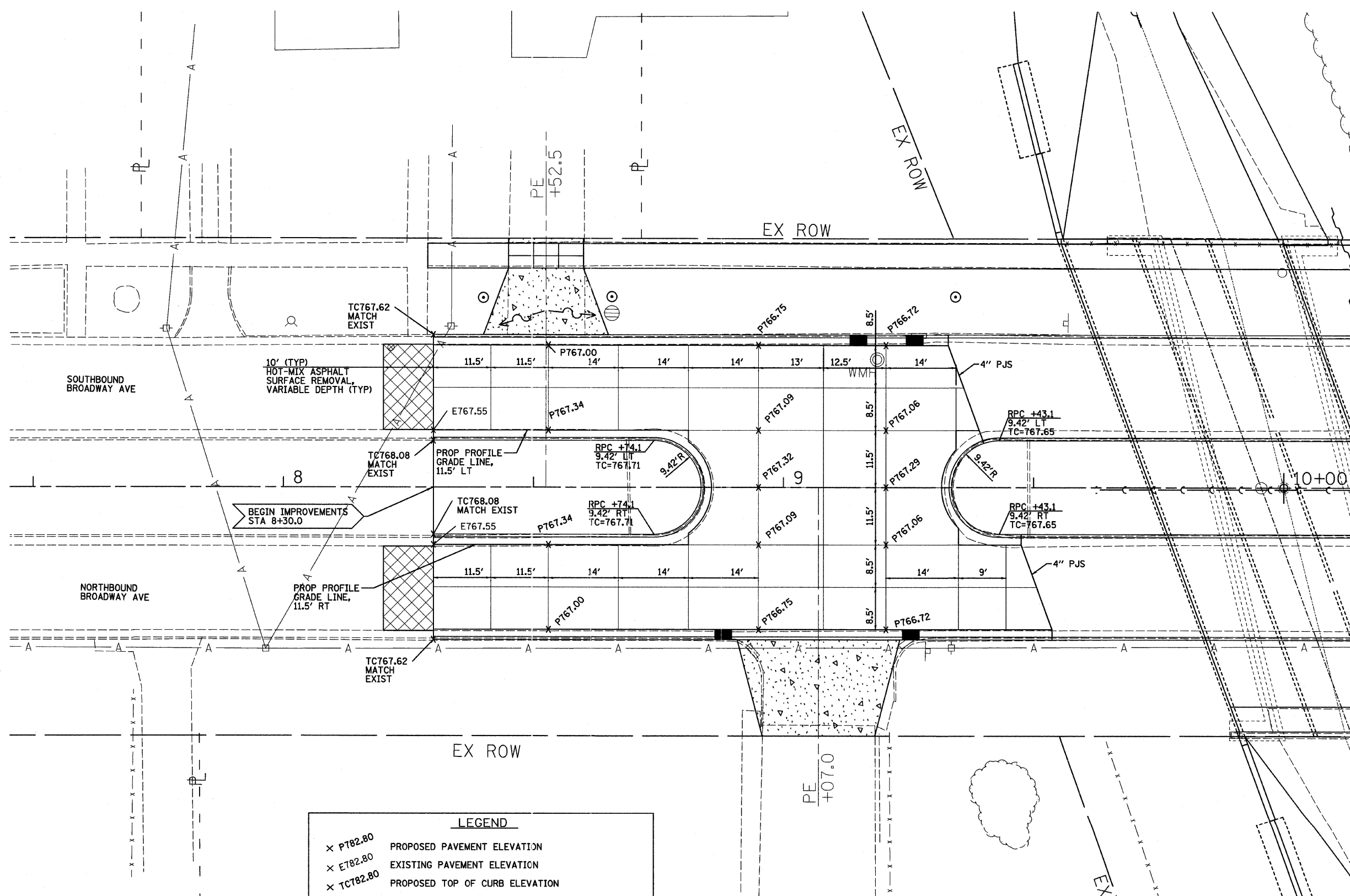
SHEET 1 OF 1

SANITARY SEWER DETAILS

SCALE: N.T.S. SHEET NO. 13 OF 40 SHEETS STA. B+30 TO STA. 11+75

BROADWAY AVENUE OVER SUGAR CREEK
SECTION 07-00233-00-BR
MCLEAN COUNTY

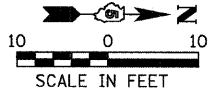
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	13
S.N. 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT				



LEGEND

x PT82.80	PROPOSED PAVEMENT ELEVATION
x ET82.80	EXISTING PAVEMENT ELEVATION
x TC82.80	PROPOSED TOP OF CURB ELEVATION
—	4" PREFORMED JOINT SEAL (PJS)
—	SAWED TRANSVERSE CONTRACTION AND LONGITUDINAL JOINTS ACCORDING TO STD. B.L.R. 10-6

NOTES:
 1. RPC AND RADII DIMENSIONS AND OFFSETS ARE SHOWN TO BACK OF CURB.



#TIME#
 #DATE#
 #FILE#
 P:\town_of_Normal\2009\080661 Broadway Ave Brg.dgn

DESIGNED - BAB/JCZ	REVISED -
DRAWN - JTC/JWK	REVISED -
CHECKED - MSW	REVISED -
DATE - 02/25/11	REVISED -

TOWN OF NORMAL

SAW JOINT DETAILS AND ELEVATION PLAN

SCALE: 1"=10' SHEET NO. 14 OF 40 SHEETS STA. 8+30 TO STA. 11+75

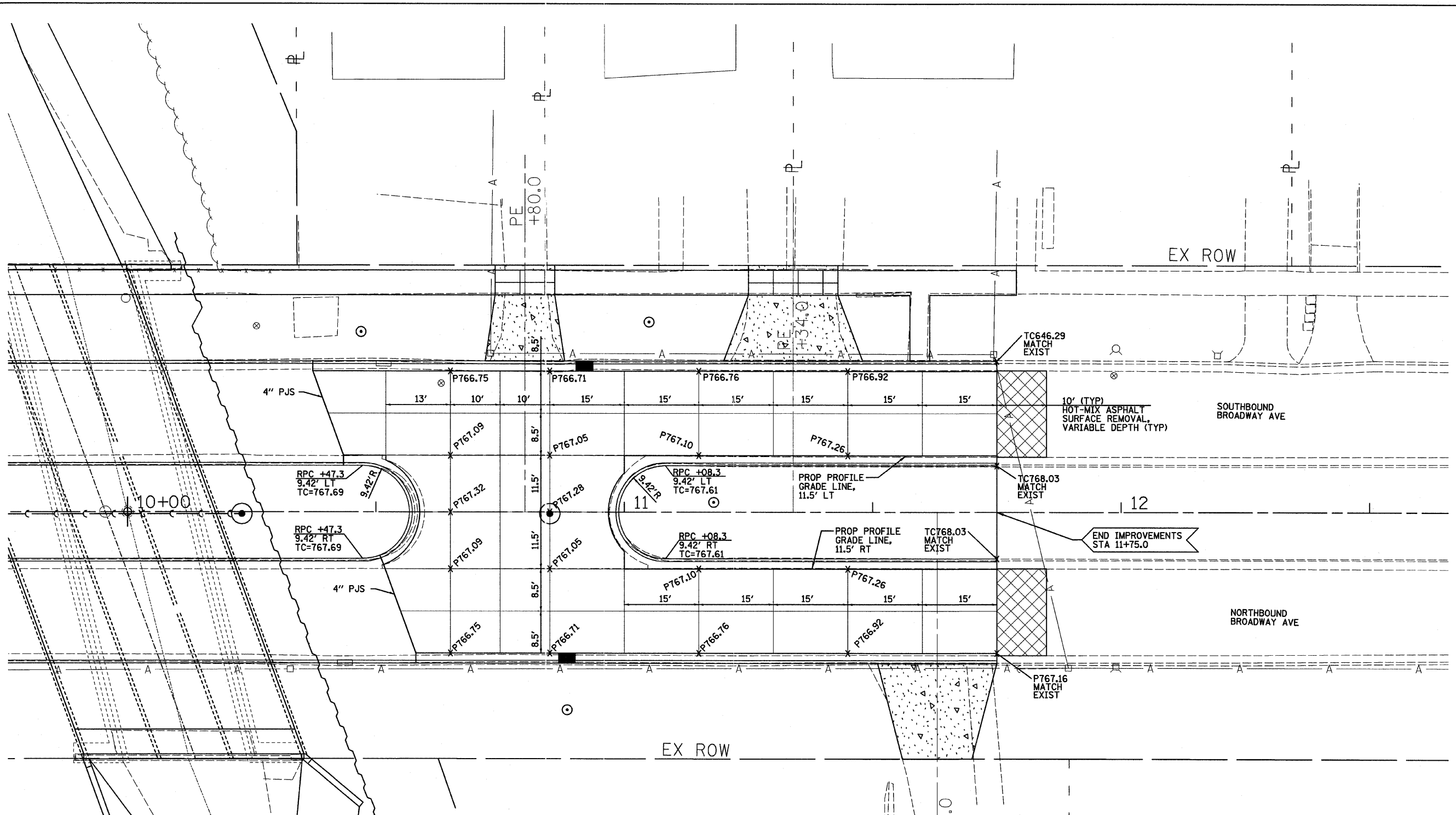
**BROADWAY AVENUE OVER SUGAR CREEK
 SECTION 07-00233-00-BR
 MCLEAN, COUNTY**

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	14
S.N. 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCCRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

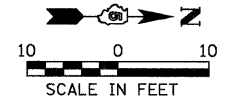
24-8175



LEGEND

- × P762.80 PROPOSED PAVEMENT ELEVATION
- × E762.80 EXISTING PAVEMENT ELEVATION
- × T762.80 PROPOSED TOP OF CURB ELEVATION
- 4" PREFORMED JOINT SEAL (PJS)
- SAWED TRANSVERSE CONTRACTION AND LONGITUDINAL JOINTS ACCORDING TO STD. B.L.R. 10-6

NOTES:
 1. RPC AND RADII DIMENSIONS AND OFFSETS ARE SHOWN TO BACK OF CURB.



#FILE# 4
 #DATE# 02/25/11
 #DRAWN# JTC/JWK
 #CHECKED# MSW
 #DESIGNED# BAB/JCZ
 #PROJECT# 07-00233-00-BR
 #SECTION# 07-00233-00-BR
 #COUNTY# MCLEAN
 #CONTRACT# S.N. 057-7841
 #SHEET# 15 OF 40

DESIGNED -	BAB/JCZ	REVISED -	
DRAWN -	JTC/JWK	REVISED -	
CHECKED -	MSW	REVISED -	
DATE -	02/25/11	REVISED -	

TOWN OF NORMAL

SAW JOINT DETAILS AND ELEVATION PLAN

SCALE: 1"=10' SHEET NO. 15 OF 40 SHEETS STA. 8+30 TO STA. 11+75

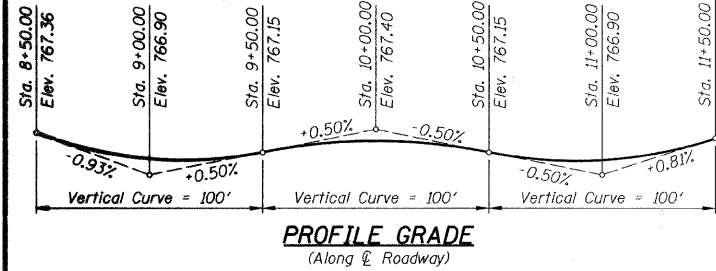
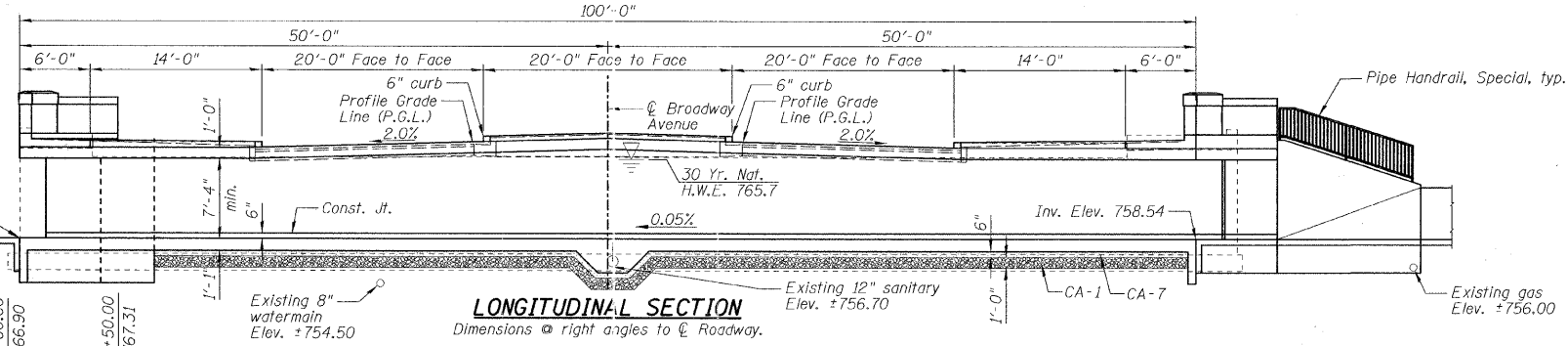
BROADWAY AVENUE OVER SUGAR CREEK
SECTION 07-00233-00-BR
MCLEAN COUNTY

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	15
S.N. 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT				

- Benchmarks:**
- 1.) Top of fire hydrant North corner of Archie Ave., West side of Broadway Ave., Elevation = 779.29.
 - 2.) Top of fire hydrant West side of Broadway Ave. ±100' South of Bridge in front of house #903, Elevation = 770.29.
 - 3.) Top of fire hydrant North corner of Broadway Terrace, West side of Broadway Ave., Elevation = 774.52.

Existing Structure: The existing structure is a 27'-0" single span structure with closed abutments supported by concrete footings.

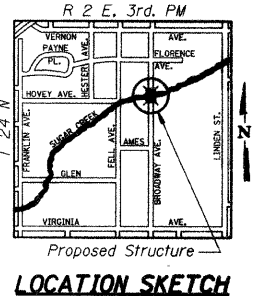
No Salvage.



DESIGN SPECIFICATIONS
AASHTO 2002

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi (Cast-In-Place Concrete)
fy = 60,000 psi (Reinforcement)

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

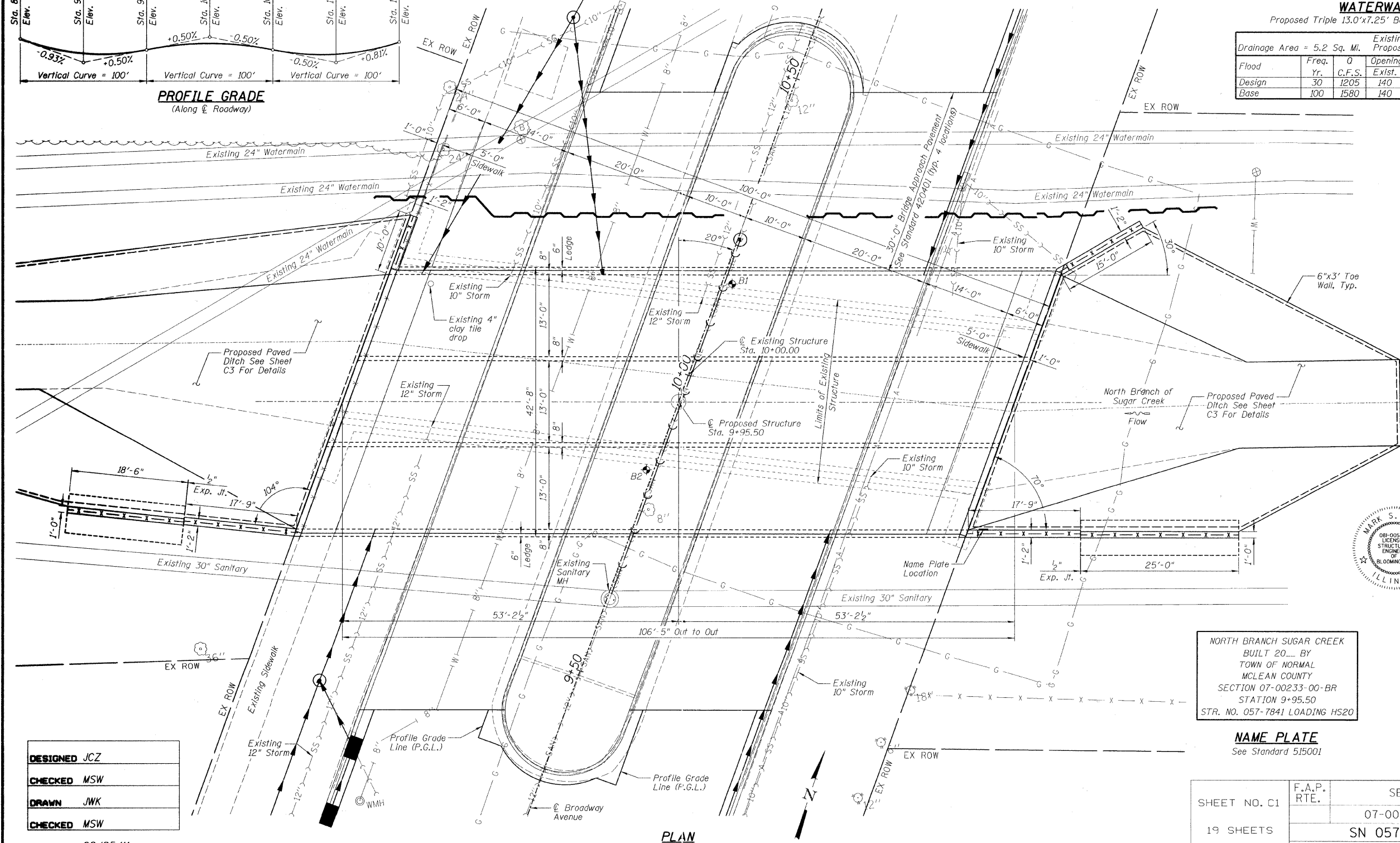


WATERWAY INFORMATION
Proposed Triple 13.0'x7.25' Box Culvert with 20° Skew Right Foward

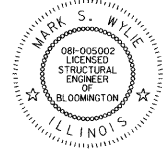
Drainage Area = 5.2 Sq. Mi.		Existing Low Grade Elev. 766.90 @ Sta. 9+30.00		Proposed Low Grade Elev. 766.90 @ Sta. 9+30.00	
Flood Yr.	Q	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist.	Headwater El. Prop.
Design	30	1205	140	283	765.7
Base	100	1580	140	283	766.8
				3.5	1.5
				770.3	768.3

INDEX TO SHEETS

SHEET NO.	TITLE
C1	GENERAL PLAN AND ELEVATION
C2	BILL OF MATERIAL, GENERAL NOTES AND CULVERT DETAILS
C3	PAVED DITCH PLAN
C4	TEMPORARY SHEET PILING DETAIL
C5	TOP OF APPROACH SLAB ELEVATIONS
C6	SOUTHWEST AND NORTHEAST APPROACH SLAB
C7	SOUTHEAST AND NORTHWEST APPROACH SLAB
C8	BOTTOM SLAB REINFORCEMENT
C9	TOP SLAB REINFORCEMENT
C10-C11	CULVERT WALL ELEVATIONS
C12	CULVERT CROSS SECTION
C13	NORTHWEST AND NORTHEAST WINGWALL
C14	SOUTHEAST WINGWALL AND RETAINING WALL
C15	SOUTHWEST WINGWALL AND RETAINING WALL
C16	WINGWALL DETAILS
C17	PARAPET DETAILS
C18-C19	SOIL BORING LOGS



I certify that to the best of my knowledge, information and belief, this box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges'.



Mark S. Wylie Date 2/25/11
MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/12

NORTH BRANCH SUGAR CREEK
BUILT 20... BY
TOWN OF NORMAL
MCLEAN COUNTY
SECTION 07-00233-00-BR
STATION 9+95.50
STR. NO. 057-7841 LOADING HS20

NAME PLATE
See Standard 515001

GENERAL PLAN AND ELEVATION
BROADWAY AVENUE OVER
NORTH BRANCH SUGAR CREEK
SECTION 07-00233-00-BR
NORMAL, ILLINOIS
MCLEAN COUNTY
STATION 9+95.50
STRUCTURE NO. 057-7841

SHEET NO. C1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19 SHEETS		07-00233-00-BR	MCLEAN	40	16
		SN 057-7841			CONTRACT NO. 91422
					FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT

DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW
DATE 02/25/11

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8175

STRUCTURAL TOTAL BILL OF MATERIAL

ITEMS	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu Yd	408
Porous Granular Embankment	Cu Yd	500
Removal of Existing Structures	Each	1
Slope Wall Removal	Sq Yd	324
Concrete Structures	Cu Yd	29.0
Concrete Superstructure	Cu Yd	131.8
Bridge Deck Grooving	Sq Yd	417
*Protective Coat	Sq Yd	610
Reinforcement Bars, Epoxy Coated	Pound	138,560
Slope Wall 6"	Sq Yd	691
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	555.1
Temporary Sheet Piling	Sq Ft	2,485
Masonry Wall Construction	Sq Ft	165
Porous Granular Embankment, Special	Cu Yd	408
Pipe Handrail, Special	Foot	102

*Quantity is for top surface of deck, sidewalk, parapet, and approach slab.

CULVERT BAR BENDING DIAGRAMS

Bar	a	b	Diagram
d	3'-8"	1'-9"	
d2	4'-0"	10"	
v	3'-6"	8"	
v4	3'-0"	2'-6"	

Bar	a	b	Diagram
d1	4'-10"	7"	
s	1'-6"	9"	

Bar	a	b	c	Diagram
a6	42'-4"	8"	6"	
a8	41'-4"	8"	6"	

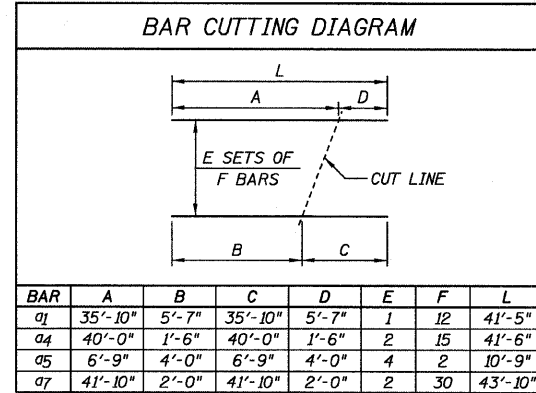
Bar	a	b	c	Diagram
s1	8"	2'-0"	4 1/2"	
s3	8 1/4"	1'-1 1/4"	4 1/2"	

Bar	a	b	c	d	Diagram
c	1'-0"	1'-8"	6"	2 1/2"	
v3	1'-8"	6"	1'-8"	4 1/4"	

Bar	a	b	c	d	Diagram
a2	2'-0"	4'-4"	1'-4 3/4"	7'-5"	
h2	1'-8"	2'-1"	1'-4 3/4"	2'-6"	

DESIGNED JCZ
 CHECKED MSW
 DRAWN JWK
 CHECKED MSW
 DATE 02/25/11

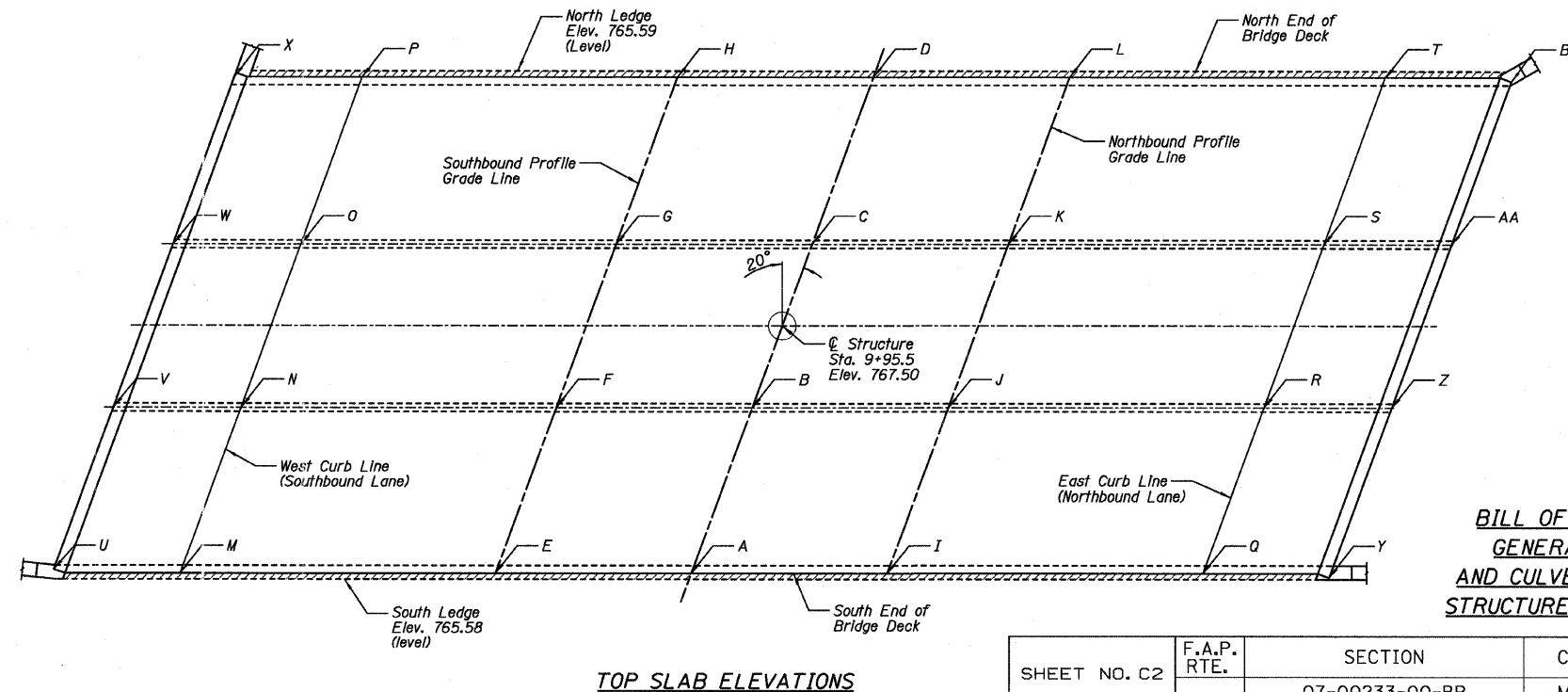
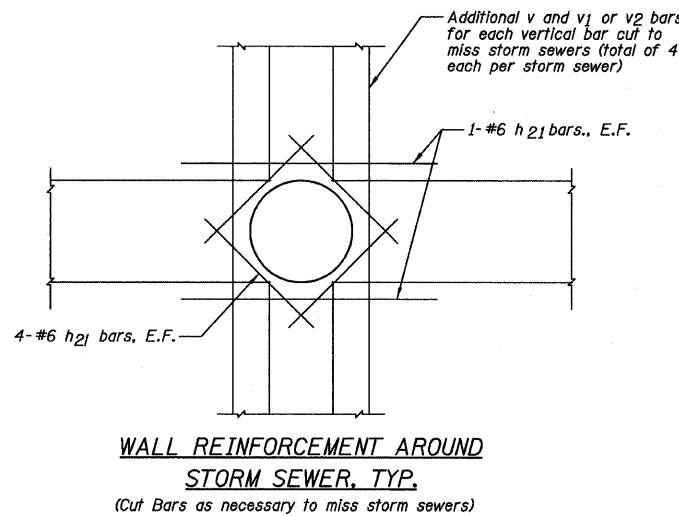
Bar	a	b	c	d	e	f	Diagram
s2	3 1/2"	2'-0"	4 1/2"	8"	1'-7 1/2"	4 1/2"	



BAR	A	B	C	D	E	F	L
q1	35'-10"	5'-7"	35'-10"	5'-7"	1	12	41'-5"
a4	40'-0"	1'-6"	40'-0"	1'-6"	2	15	41'-6"
a5	6'-9"	4'-0"	6'-9"	4'-0"	4	2	10'-9"
a7	41'-10"	2'-0"	41'-10"	2'-0"	2	30	43'-10"

CULVERT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
7	163	#6	42'-4"	—
71	12	#6	41'-5"	—
72	15	#6	20'-1"	—
13	394	#6	8'-0"	—
74	30	#6	41'-6"	—
75	8	#6	10'-9"	—
76	91	#6	43'-8"	—
77	60	#6	43'-10"	—
78	91	#6	42'-8"	—
79	181	#6	41'-4"	—
h2	16	#5	44'-0"	—
h3	4	#4	44'-0"	—
2	86	#5	3'-2"	—
21	86	#5	5'-6"	—
7	86	#4	5'-5"	—
71	8	#5	10'-3"	—
72	56	#5	4'-10"	—
73	180	#5	10"	—
3	4	#4	16'-7"	—
31	8	#4	10'-11"	—
h	210	#5	22'-7"	—
h1	172	#5	27'-0"	—
h2	43	#5	10'-0"	—
h3	15	#6	42'-7"	—
h4	580	#5	27'-9"	—
h20	204	#6	28'-2"	—
h21	60	#6	5'-0"	—
h22	8	#7	44'-0"	—
s	214	#4	3'-9"	—
s1	45	#4	6'-1"	—
s2	45	#4	5'-11"	—
s3	4	#4	4'-4"	—
v	662	#5	4'-2"	—
v1	224	#5	6'-4"	—
v2	438	#5	7'-8"	—
v3	212	#4	3'-10"	—
v4	88	#5	5'-6"	—
Item	Unit	Quantity		
Concrete Box Culverts	Cu. Yd.	491.3		
Reinforcement Bars, Epoxy Coated	Pound	95,450		



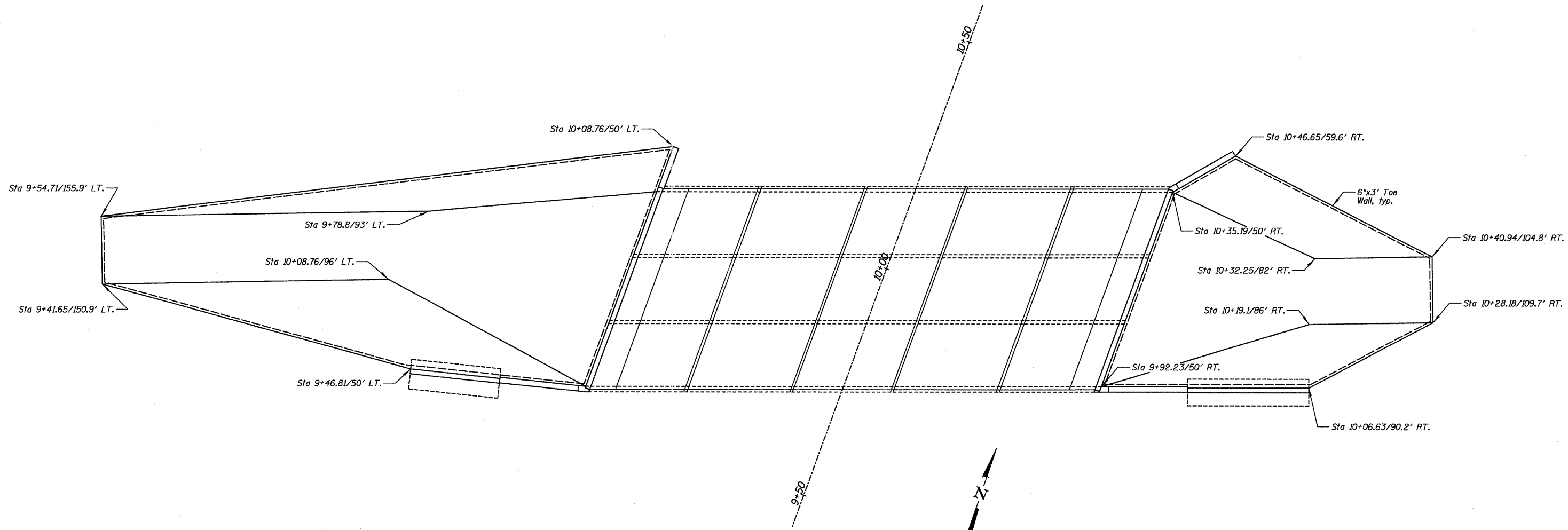
GENERAL NOTES

- At least 10'-0" of this culvert barrel shall be poured monolithically with the wingwalls.
- Exposed edges shall be beveled 3/4".
- Class SI Concrete shall be used throughout except Class BD Concrete shall be used for the top slab. Optional use of Precast Concrete Box Culverts is not allowed.
- Reinforcement Bars shall conform to the requirements of ASTM A706, Grade 60 (LL Modified). See Special Provision.
- For backfilling and embankment, see Standard Specifications and Roadway Plans.
- It shall be the responsibility of the Contractor to divert the stream flow and any storm sewer flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with "Concrete Box Culverts".
- Contractor to field locate all utilities before starting construction and protect all utilities. Contractor to submit information regarding protecting utilities to the Engineer before starting construction.
- For field data, See Farnsworth Group field book No. 2675.
- The pay item "Removal And Disposal Of Unsuitable Material" shall include the excavation of unsuitable material for a depth to 1'-6" below the structure for a width of 46'-8" within the limits of the toe walls as shown in the plans. The actual amount shall be determined in the field by the Engineer.
- The pay item "Porous Granular Embankment, Special" shall include the placement of CA-1 and CA-7 below the structure for a width of 46'-8" within the limits of the toe walls as shown on the plans. The actual amount shall be determined in the field by the Engineer.
- All Reinforcement Bars shall be epoxy coated.
- E.F. denotes Each Face I.F. denotes Inside Face O.F. denotes Outside Face B.F. denotes Back Face F.F. denotes Front Face
- There will be no additional compensation should any reinforcement need to be cut or bent in the field.
- Construction Joints shall be bonded in accordance with Section 503.09(b) of the Standard Specifications.
- The layout of the paved ditch may be varied in the field to suit ground conditions as directed by the Engineer.
- Minimum bar lap lengths are as follows, unless noted otherwise.

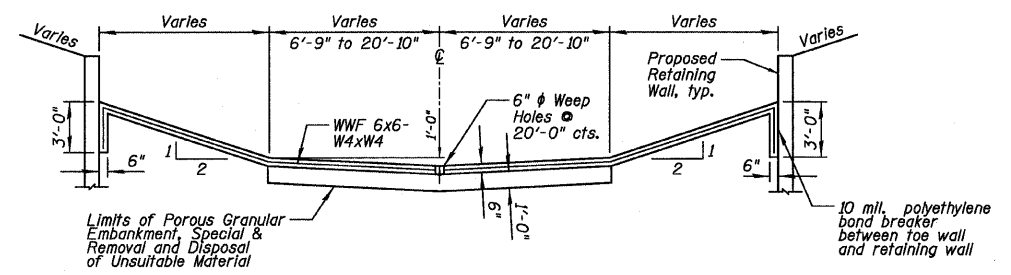
Bar Size	Min. Lap Length	Wingwalls:	Bar Size	Min. Lap Length
#4	1'-4"		#4	1'-8"
#5	1'-8"		#5	2'-2"
#6	2'-0"		#6	2'-7"
#7	2'-9"		#7	3'-5"
#8	3'-8"		#8	4'-6"
#9	4'-7"		#9	5'-9"
- The concrete for the culvert top slab finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of culvert. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
- If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
- The concrete in the retaining walls, sidewalk, parapet, and curb on the culvert slab shall be paid for as "Concrete Box Culverts".
- Contractor to protect the 24" Watermain. Positive means will be required including sheet piling.
- Contractor to submit information regarding protecting utilities to the Engineer before starting construction. Price included with "Temporary Sheet Piling".
- Removal of the bituminous wearing surface on the existing bridge shall be included in the rest of Removal of Existing Structures.
- The Paved Ditch shall be paid for as "Slope Wall 6 Inch". Removal of Paved Ditch shall be paid for as "Slope Wall Removal".

BILL OF MATERIAL, GENERAL NOTES, AND CULVERT DETAILS STRUCTURE NO. 057-7841

SHEET NO. C2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	07-00233-00-BR	MCLEAN	40	17
		SN 057-7841	CONTRACT NO. 91422		
		FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT	



PAVED DITCH PLAN



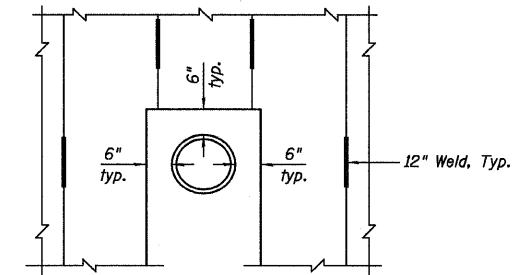
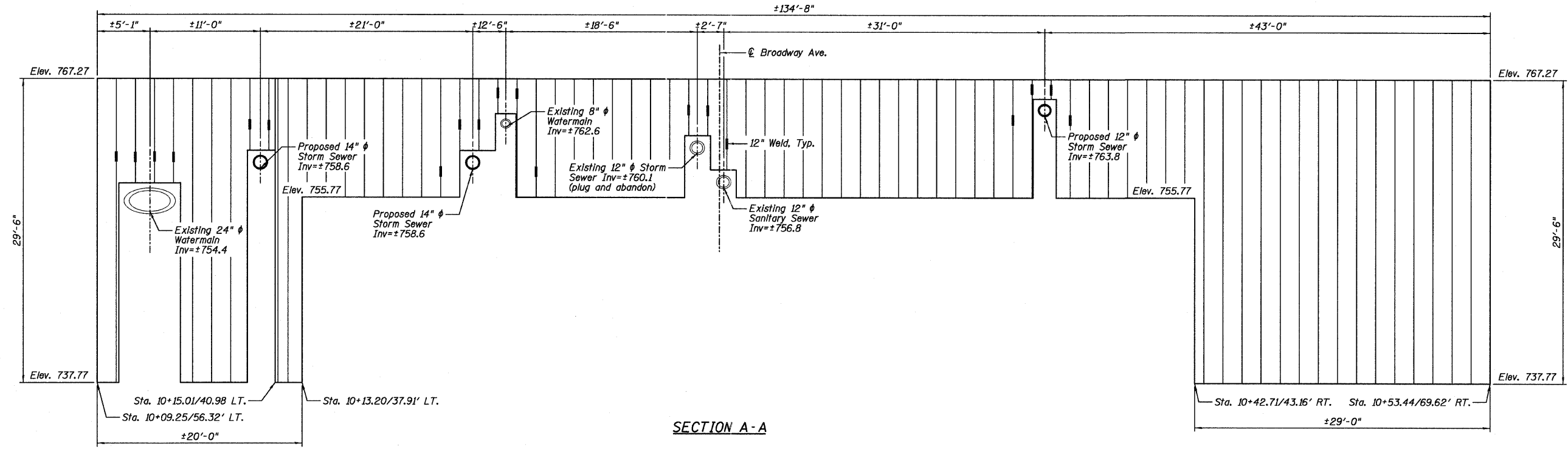
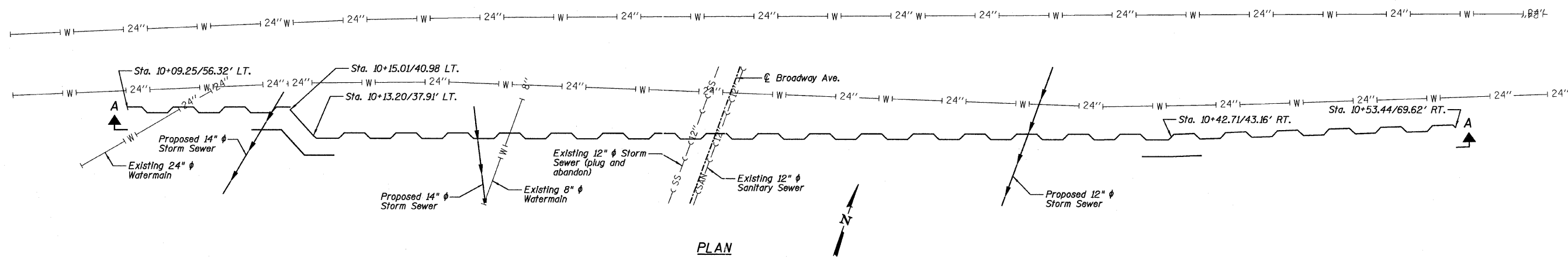
PAVED DITCH TYPICAL SECTION
(Looking Northwest)
See General Plan & Elevation Sheet

DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW

DATE 02/25/11

PAVED DITCH PLAN
STRUCTURE NO. 057-7841

SHEET NO. C3 19 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		07-00233-00-BR	MCLEAN	40	18
		SN 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



TEMPORARY SHEET PILING DATA

Top Elevation = 767.27
 Tip Elevation = 737.77 (at end)
 Tip Elevation = 755.77 (at center)
 Min. Section Modulus = 26.3 in³/ft
 Area = 2,485 ft²

NOTES:

- 1.) Contractor to locate utilities, especially the 24" Watermain, before driving sheet piling.
- 2.) The unit price bid for Temporary Sheet Piling shall also include any "Block Outs" or cutting necessary for utilities.

DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW
DATE 02/25/11

SHEET PILING DETAIL AROUND PIPES

**TEMPORARY SHEET PILING DETAIL
 STRUCTURE NO. 057-7841**

SHEET NO. C4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		07-00233-00-BR	MCLEAN	40	19
19 SHEETS	SN 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

**WEST CURB LINE
(SOUTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
End South Appr. Slab	9+32.41	-30.00	766.71
A	9+42.41	-30.00	766.75
B	9+52.41	-30.00	766.79
S. End Culvert Deck	9+62.41	-30.00	766.83

**WEST CURB LINE
(NORTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
End South Appr. Slab	9+46.97	10.00	767.17
A	9+56.97	10.00	767.21
B	9+66.97	10.00	767.25
S. End Culvert Deck	9+76.97	10.00	767.28

**PROFILE GRADE LINE
(SOUTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
End South Appr. Slab	9+39.14	-11.50	767.10
A	9+49.14	-11.50	767.15
B	9+59.14	-11.50	767.19
S. End Culvert Deck	9+69.14	-11.50	767.23

**PROFILE GRADE LINE
(NORTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
End South Appr. Slab	9+47.52	11.50	767.14
A	9+57.52	11.50	767.18
B	9+67.52	11.50	767.22
S. End Culvert Deck	9+77.52	11.50	767.25

**EAST CURB LINE
(SOUTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
End South Appr. Slab	9+39.69	-10.00	767.14
A	9+49.69	-10.00	767.18
B	9+59.69	-10.00	767.22
S. End Culvert Deck	9+69.69	-10.00	767.26

**EAST CURB LINE
(NORTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
End South Appr. Slab	9+54.25	30.00	766.80
A	9+64.25	30.00	766.84
B	9+74.25	30.00	766.87
S. End Culvert Deck	9+84.25	30.00	766.89

**WEST CURB LINE
(SOUTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
N. End Culvert Deck	10+06.75	-30.00	766.90
A	10+16.75	-30.00	766.89
B	10+26.75	-30.00	766.87
End North Appr. Slab	10+36.75	-30.00	766.84

**WEST CURB LINE
(NORTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
N. End Culvert Deck	10+21.31	10.00	767.28
A	10+31.31	10.00	767.26
B	10+41.31	10.00	767.22
End North Appr. Slab	10+51.31	10.00	767.17

**PROFILE GRADE LINE
(SOUTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
N. End Culvert Deck	10+13.48	-11.50	767.27
A	10+23.48	-11.50	767.25
B	10+33.48	-11.50	767.22
End North Appr. Slab	10+43.48	-11.50	767.18

**PROFILE GRADE LINE
(NORTHBOUND LANE)**

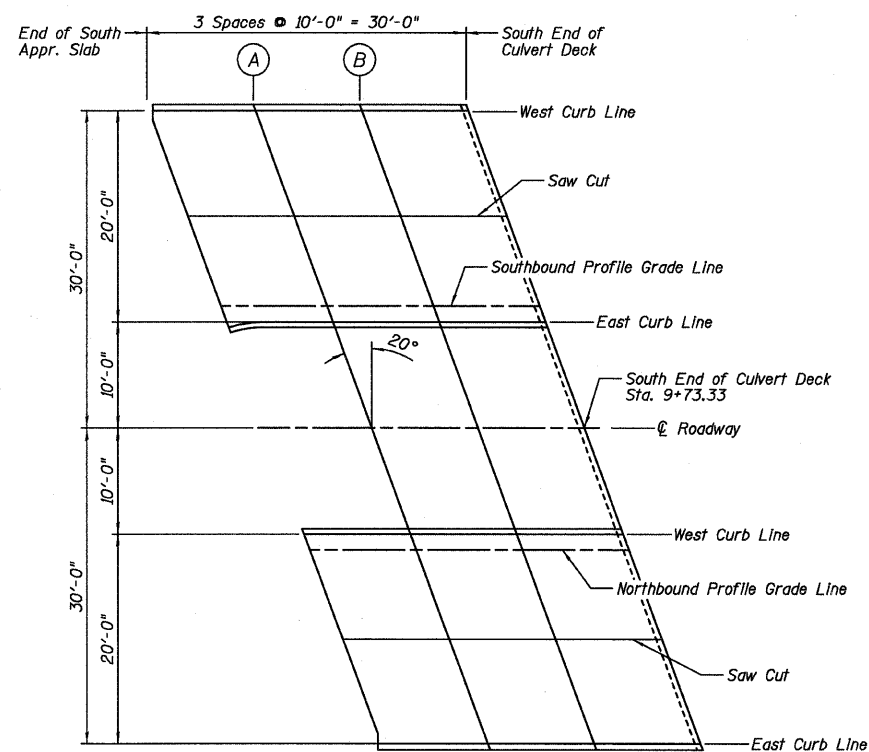
Location	Station	Offset	Theoretical Grade Elevations
N. End Culvert Deck	10+21.86	11.50	767.25
A	10+31.86	11.50	767.22
B	10+41.86	11.50	767.19
End North Appr. Slab	10+51.86	11.50	767.14

**EAST CURB LINE
(SOUTHBOUND LANE)**

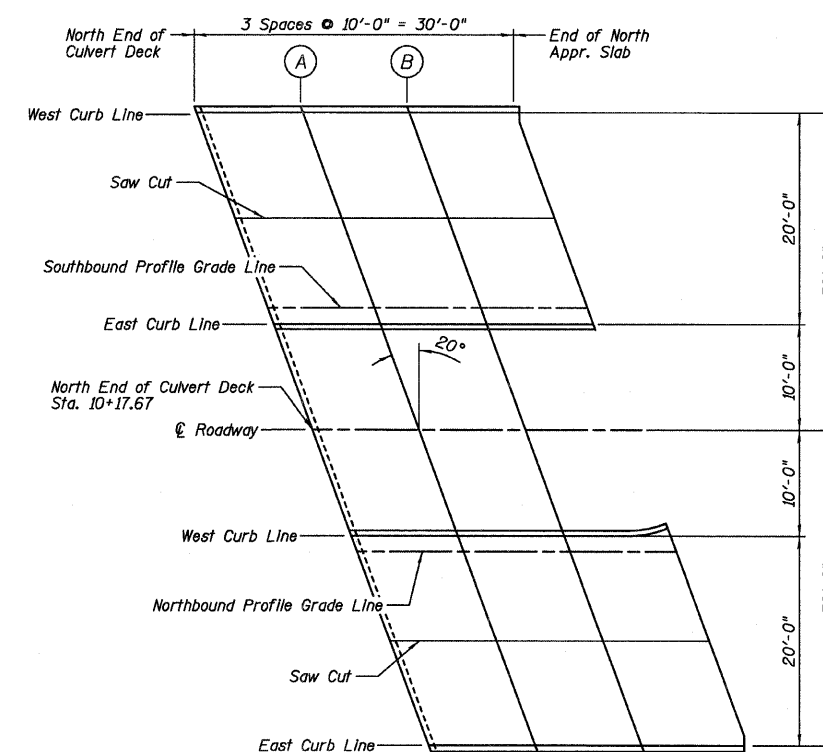
Location	Station	Offset	Theoretical Grade Elevations
N. End Culvert Deck	10+14.03	-10.00	767.30
A	10+24.03	-10.00	767.28
B	10+34.03	-10.00	767.25
End North Appr. Slab	10+44.03	-10.00	767.21

**EAST CURB LINE
(NORTHBOUND LANE)**

Location	Station	Offset	Theoretical Grade Elevations
N. End Culvert Deck	10+28.59	30.00	766.86
A	10+38.59	30.00	766.83
B	10+48.59	30.00	766.79
End North Appr. Slab	10+58.59	30.00	766.74



SOUTH APPROACH SLAB PLAN



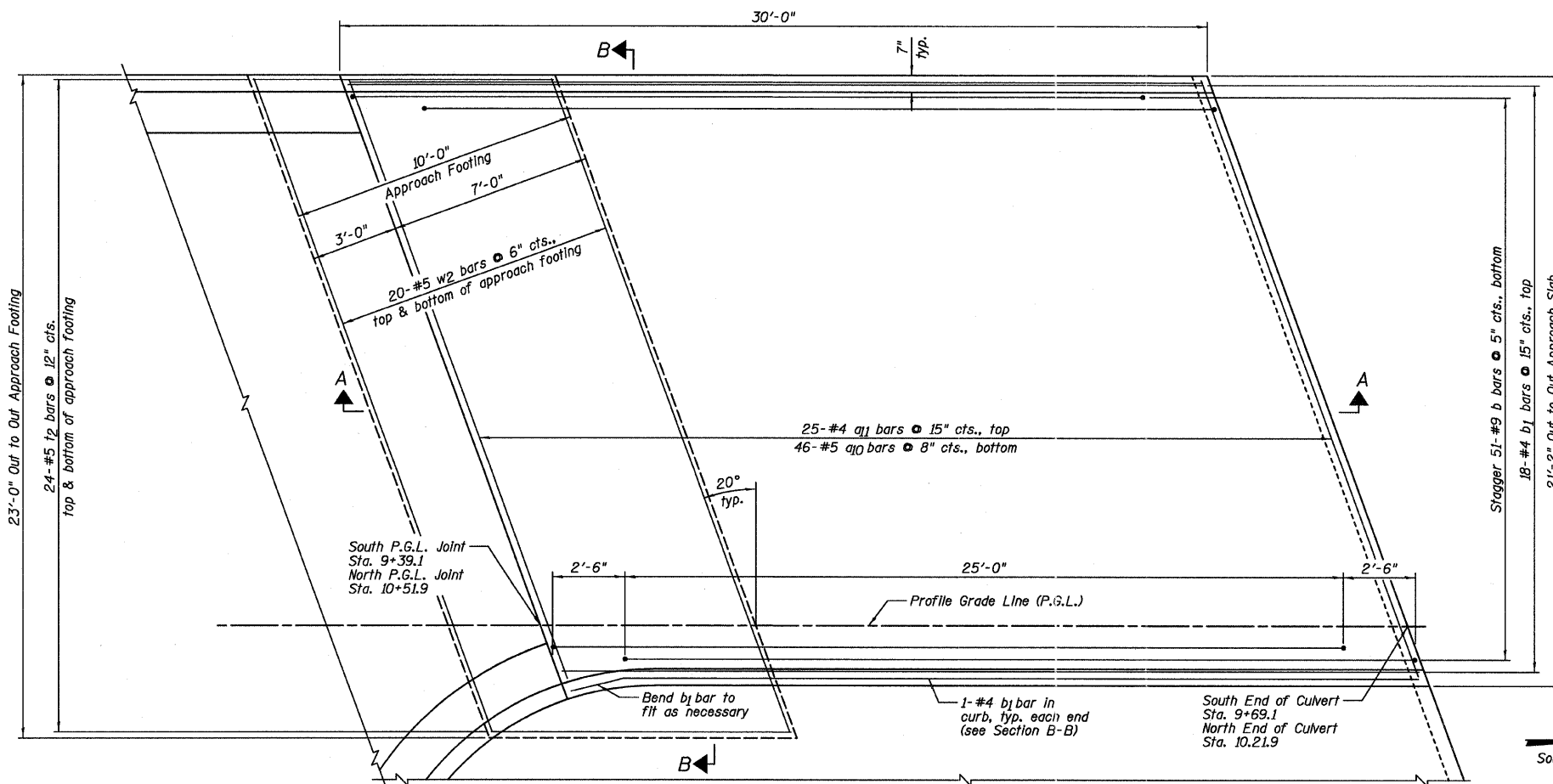
NORTH APPROACH SLAB PLAN

**TOP OF APPROACH
SLAB ELEVATIONS
STRUCTURE NO. 057-7841**

DESIGNED	JCZ
CHECKED	MSW
DRAWN	JWK
CHECKED	MSW

DATE 02/25/11

SHEET NO. C5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	07-00233-00-BR	MCLEAN	40	20
		SN 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

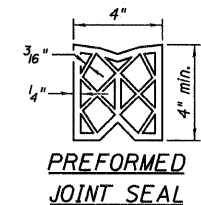
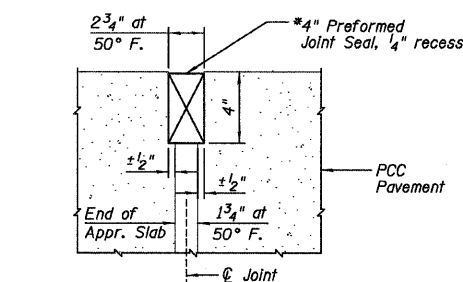
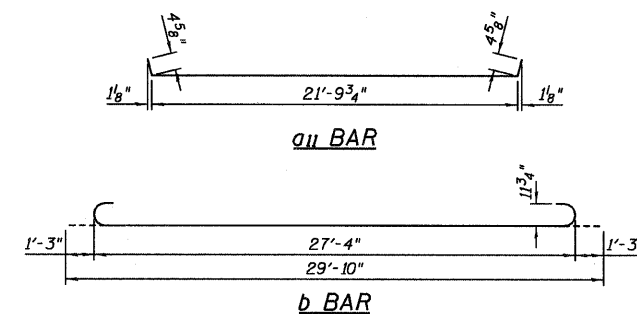


**NORTHEAST APPROACH SLAB
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10	46	#5	22'-2"	—
a11	25	#4	22'-7"	—
b	51	#9	29'-10"	⌒
b1	20	#4	29'-8"	—
t2	48	#5	10'-3"	—
w2	40	#5	24'-1"	—
Item Unit Quantity				
Concrete Structures	Cu. Yd.	7.6		
Concrete Superstructure	Cu. Yd.	33.1		
Reinforcement Bars, Epoxy Coated	Pound	8,530		

**SOUTHWEST APPROACH SLAB
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10	46	#5	22'-2"	—
a11	25	#4	22'-7"	—
b	51	#9	29'-10"	⌒
b1	20	#4	29'-8"	—
t2	48	#5	10'-3"	—
w2	40	#5	24'-1"	—
Item Unit Quantity				
Concrete Structures	Cu. Yd.	7.6		
Concrete Superstructure	Cu. Yd.	33.1		
Reinforcement Bars, Epoxy Coated	Pound	8,530		



DETAIL A - RIGID PAVEMENT

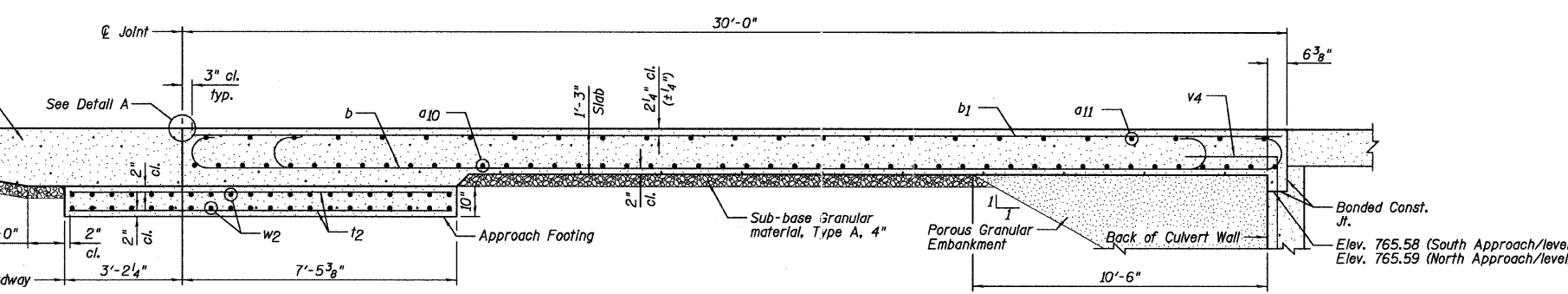
NOTES:

- 1) a10 and a11 bar spacings measured parallel to $\text{\textcircled{C}}$ Roadway.
- 2) Tilt #9 b bars as required to maintain clearance.
- 3) Approach Slab concrete shall be paid for as Concrete Superstructure.
- 4) Approach Footing concrete shall be paid for as Concrete Structures.
- 5) Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- 6) For v4 bar details, see Sheet C2.
- 7) The Approach Footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
- 8) Cost of excavation for Approach Footing Included with Concrete Structures.
- 9) Cost of Sub-base Granular Material, Type A beneath the Approach Slab included with Concrete Superstructure.

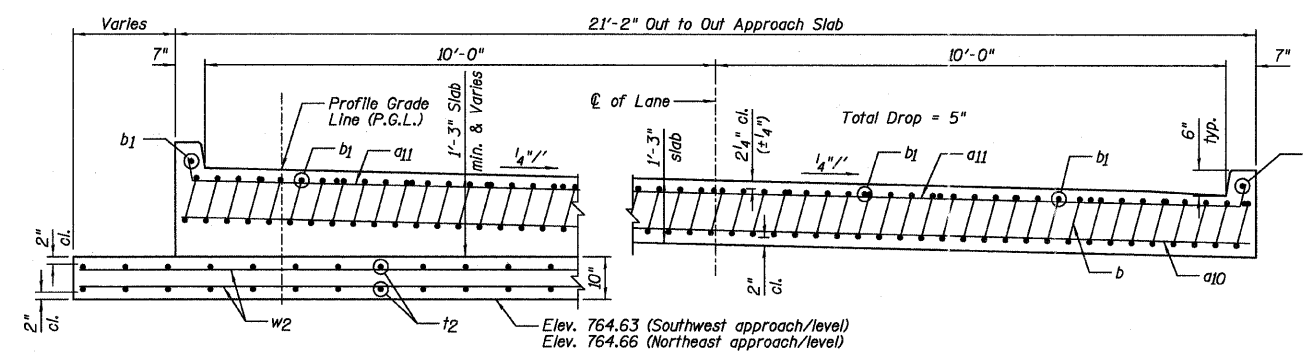
**SOUTHWEST AND NORTHEAST
APPROACH SLAB
STRUCTURE NO. 057-7841**

DESIGNED	JCZ
CHECKED	MSW
DRAWN	JWK
CHECKED	MSW

DATE 02/25/11



SECTION A-A

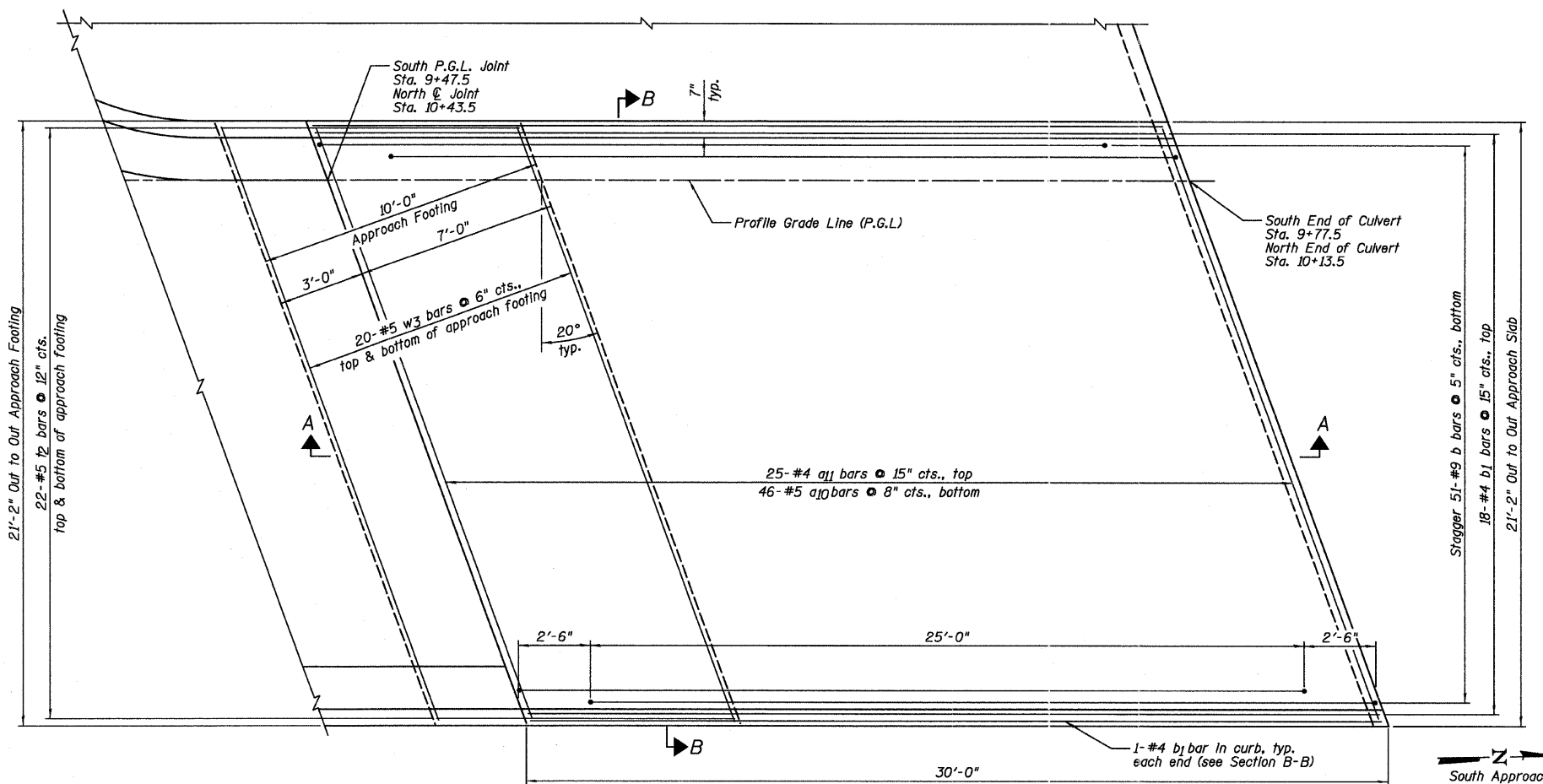


SECTION B-B

AT APPROACH FOOTING

NEAR CULVERT

SHEET NO. C6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	07-00233-00-BR	MCLEAN	40	21
		SN 057-7841	CONTRACT NO. 91422		
		FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT	



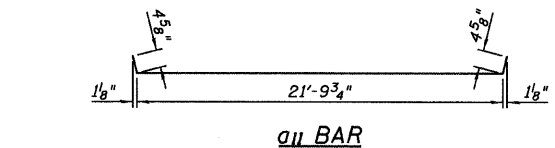
PLAN

**NORTHWEST APPROACH SLAB
BILL OF MATERIAL**

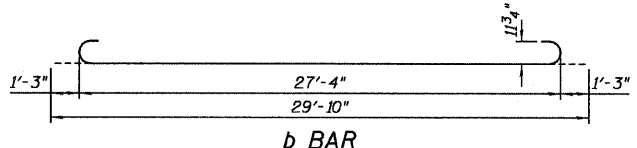
Bar	No.	Size	Length	Shape
a10	46	#5	22'-2"	—
a11	25	#4	22'-7"	—
b	51	#9	29'-10"	—
b1	20	#4	29'-8"	—
t2	44	#5	10'-3"	—
w3	40	#5	22'-2"	—
Item	Unit	Quantity		
Concrete Structures	Cu. Yd.	6.9		
Concrete Superstructure	Cu. Yd.	32.8		
Reinforcement Bars, Epoxy Coated	Pound	8,410		

**SOUTHEAST APPROACH SLAB
BILL OF MATERIAL**

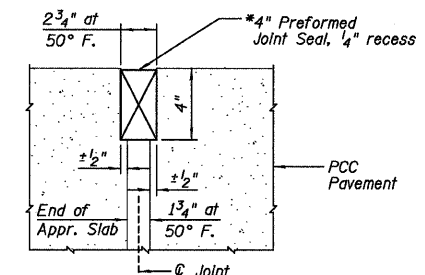
Bar	No.	Size	Length	Shape
a10	46	#5	22'-2"	—
a11	25	#4	22'-7"	—
b	51	#9	29'-10"	—
b1	20	#4	29'-8"	—
t2	44	#5	10'-3"	—
w3	40	#5	22'-2"	—
Item	Unit	Quantity		
Concrete Structures	Cu. Yd.	6.9		
Concrete Superstructure	Cu. Yd.	32.8		
Reinforcement Bars, Epoxy Coated	Pound	8,410		



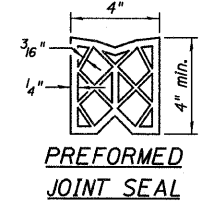
a11 BAR



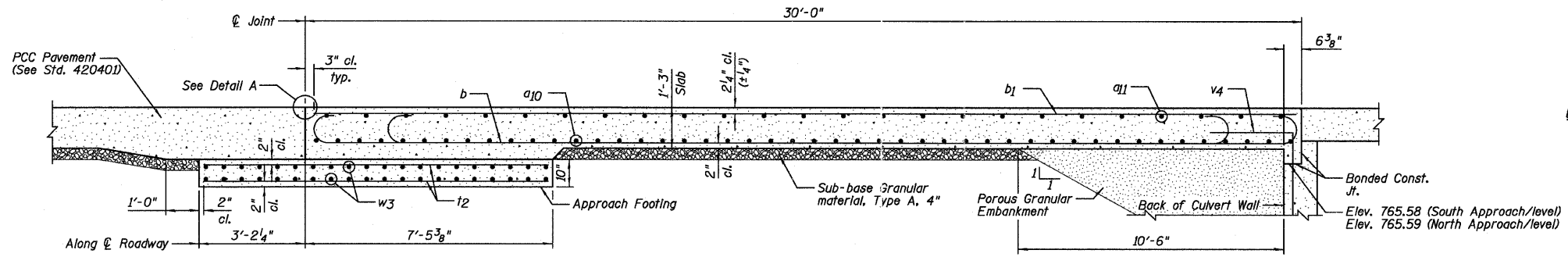
b BAR



DETAIL A-RIGID PAVEMENT



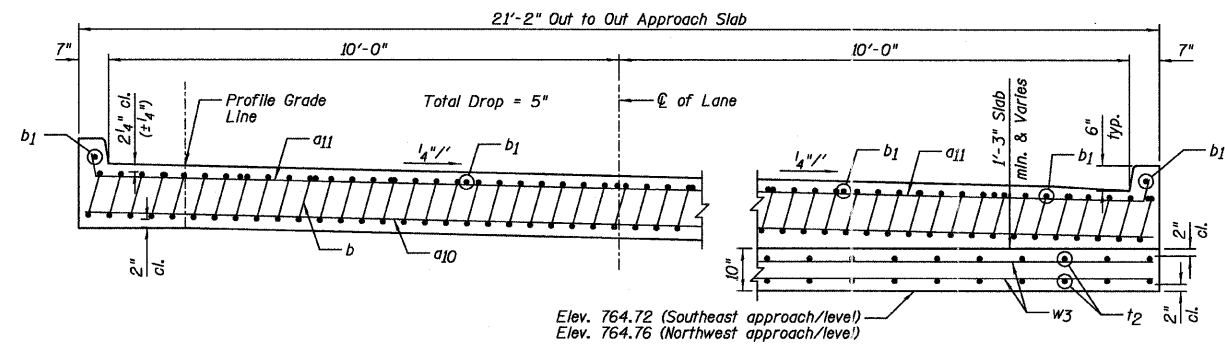
PREFORMED JOINT SEAL



SECTION A-A

NOTES:

- a10 thru a11 bar spacings measured parallel to C Roadway.
- Tilt #9 b bars as required to maintain clearance.
- Approach Slab concrete shall be paid for as Concrete Superstructure.
- Approach Footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For v4 bar details, see Sheet C2.
- The Approach Footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- Cost of excavation for Approach Footing included with Concrete Structures.
- Cost of Sub-base Granular Material, Type A beneath the Approach Slab included with Concrete Superstructure.



NEAR CULVERT

SECTION B-B

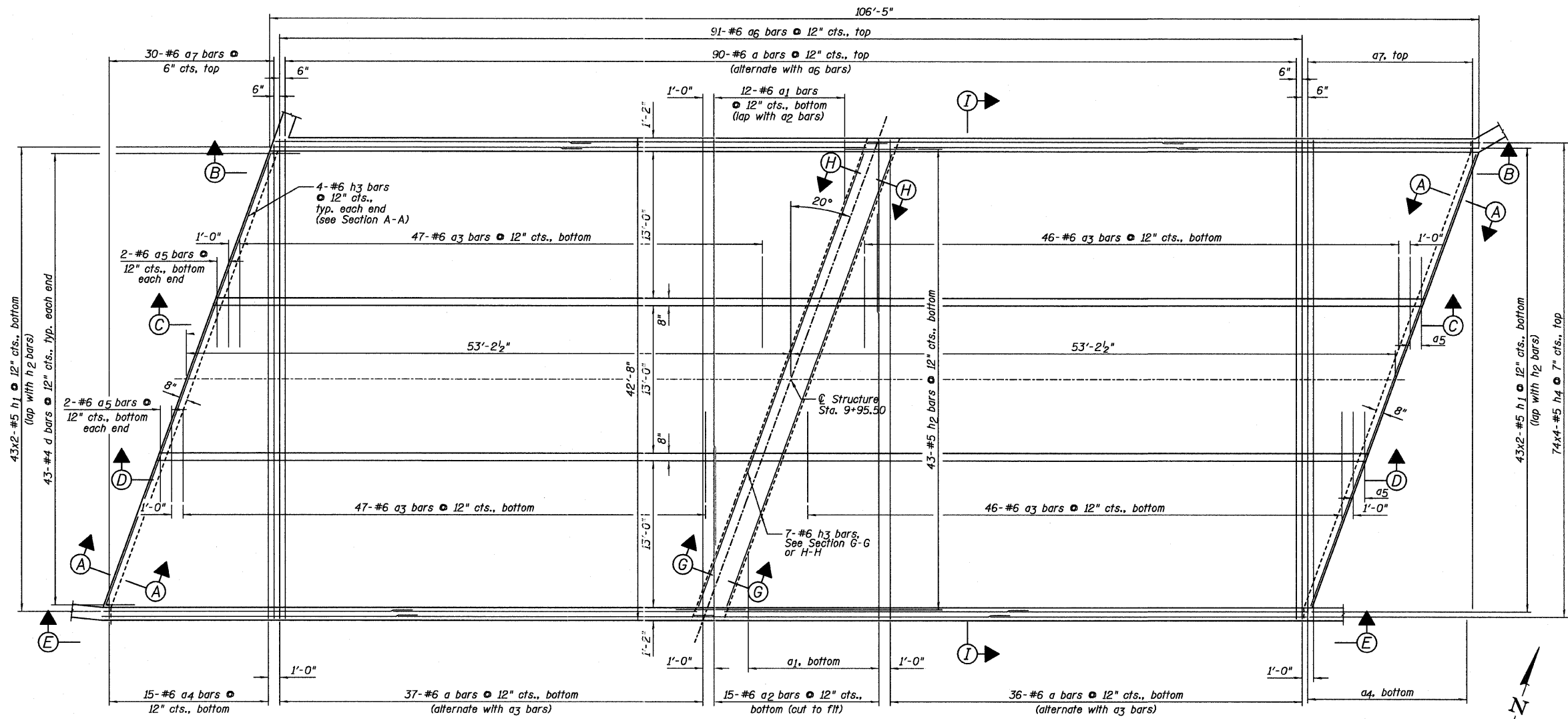
AT APPROACH FOOTING

DESIGNED	JCZ
CHECKED	MSW
DRAWN	JWK
CHECKED	MSW

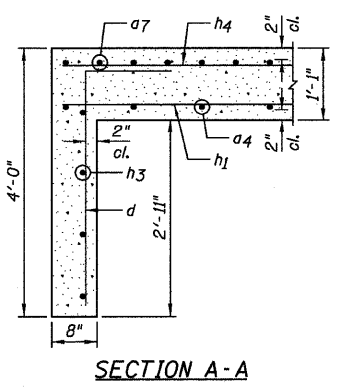
DATE 02/25/11

**SOUTHEAST AND NORTHWEST
APPROACH SLAB
STRUCTURE NO. 057-7841**

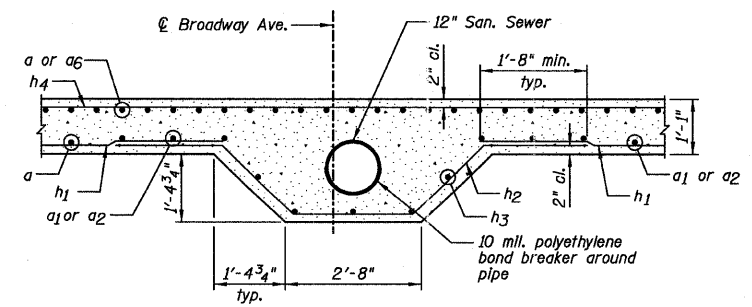
SHEET NO. C7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		07-00233-00-BR	MCLEAN	40	22
19 SHEETS	SN 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5		ILLINOIS		FED. AID PROJECT	



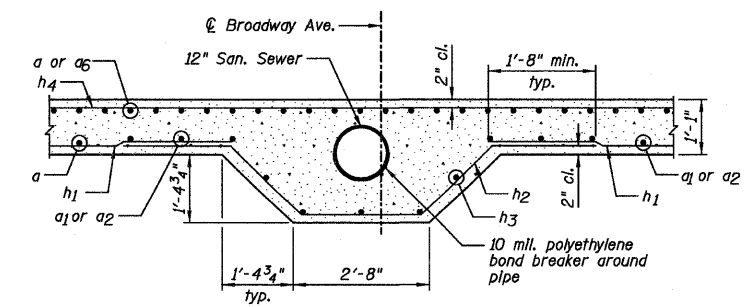
BOTTOM SLAB PLAN



SECTION A-A



SOUTH END PIPE DETAIL (SECTION G-G)
Dimensions are perpendicular to Sanitary Sewer E



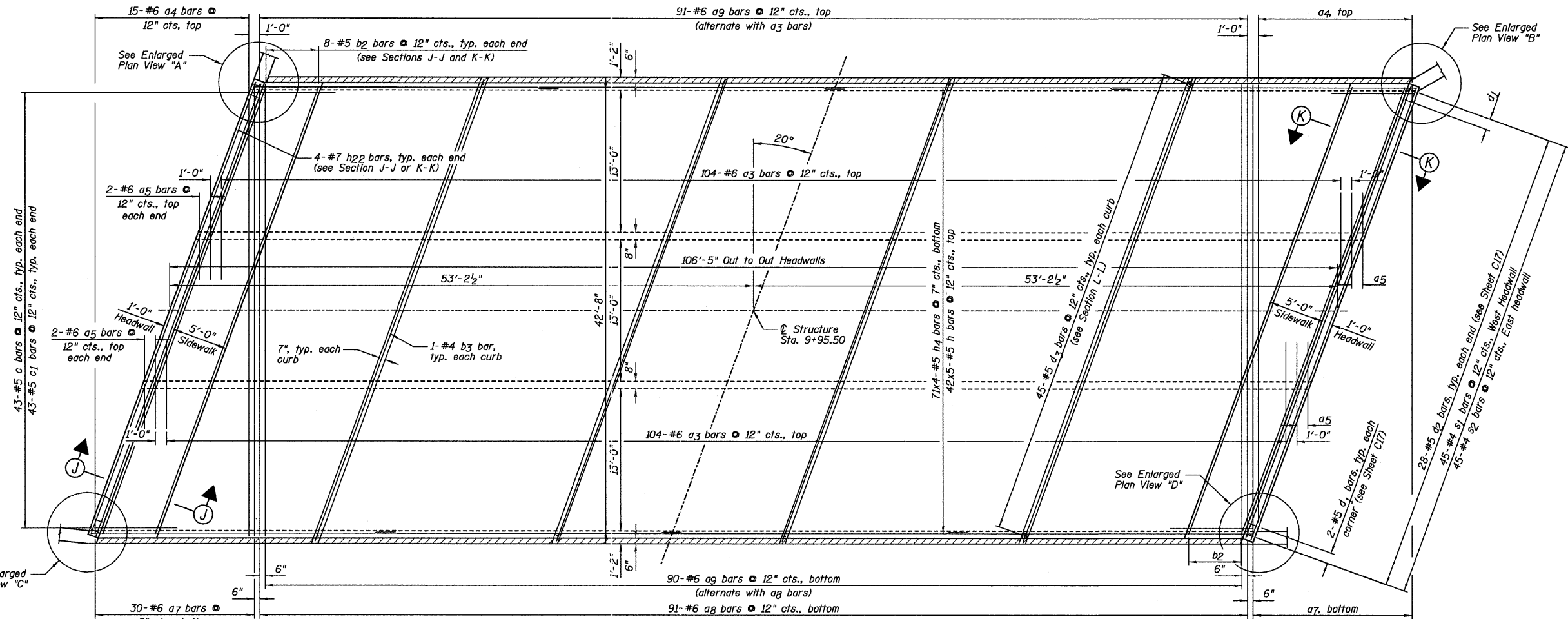
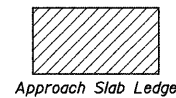
NORTH END PIPE DETAIL (SECTION H-H)
Dimensions are perpendicular to Sanitary Sewer E

NOTES:

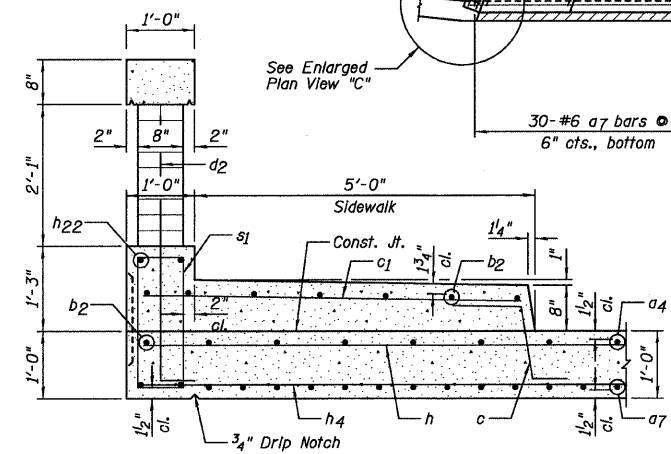
- 1.) See Sheet C10 for Views B-B and C-C.
- 2.) See Sheet C11 for Views D-D and E-E.
- 3.) See Sheet C12 for Section I-I.
- 4.) Order a4, a5 & a7 bars full length, cut according to Bar Cutting Diagram on Sheet C2. Use remainder in opposite side.

DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW
DATE 02/25/11

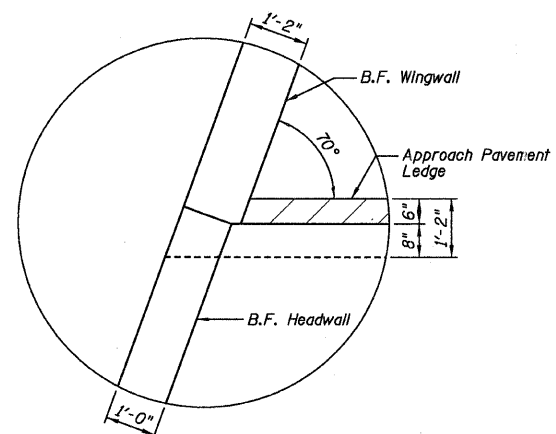
SHEET NO. C8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	07-00233-00-BR	MCLEAN	40	23
		SN 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



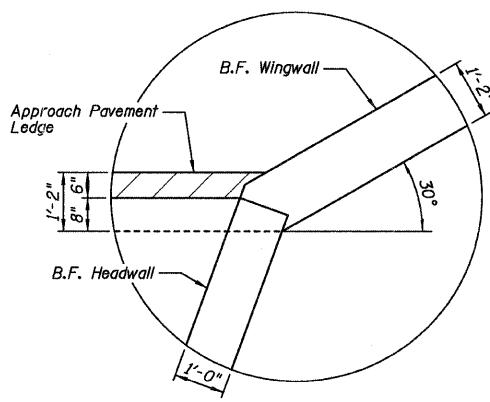
TOP SLAB PLAN



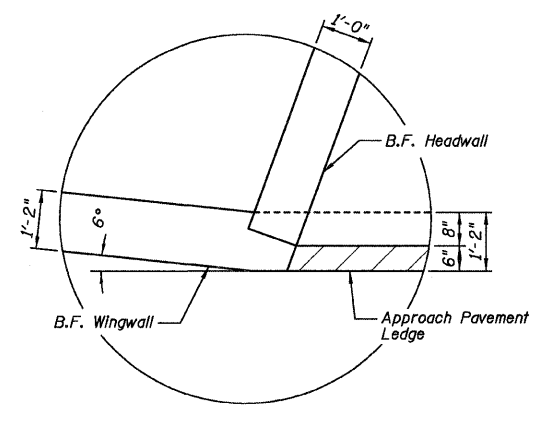
SECTION J-J
(Parapet details on sheet C17)



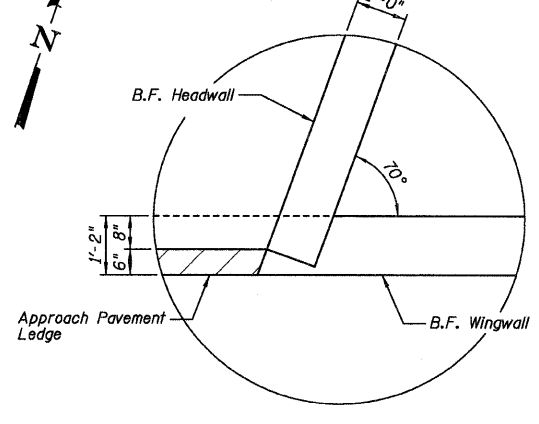
ENLARGED PLAN VIEW "A"



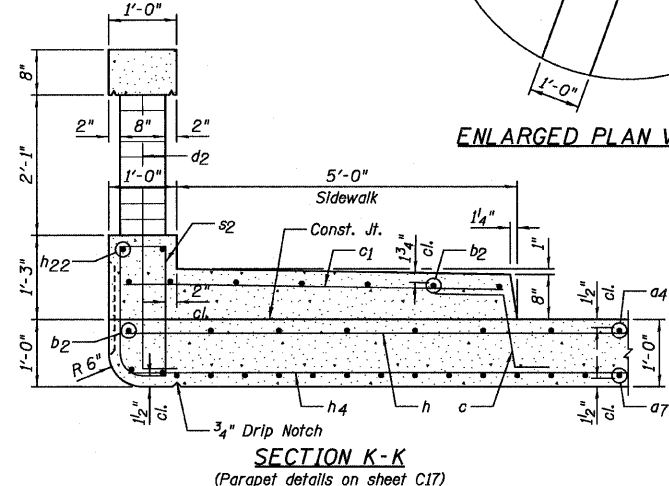
ENLARGED PLAN VIEW "B"



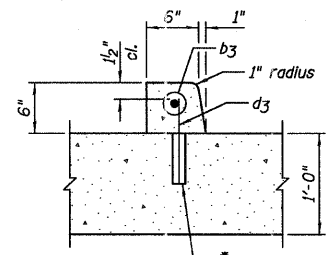
ENLARGED PLAN VIEW "C"



ENLARGED PLAN VIEW "D"



SECTION K-K
(Parapet details on sheet C17)



SECTION L-L

*Core and set #5 d3 bar according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of each hole shall not exceed 6".

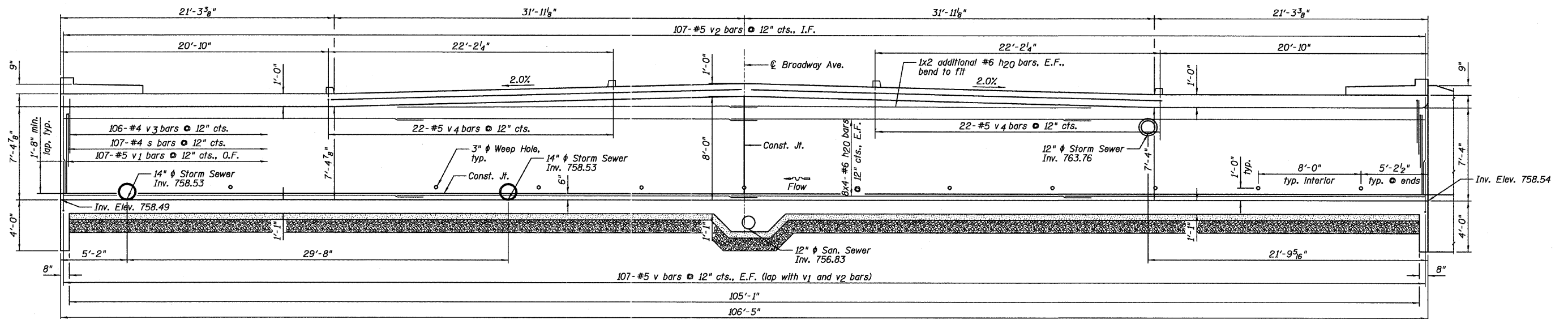
NOTE:

Order a4, a5 & a7 bars full length, cut according to Bar Cutting Diagram on Sheet C2. Use remainder in opposite side.

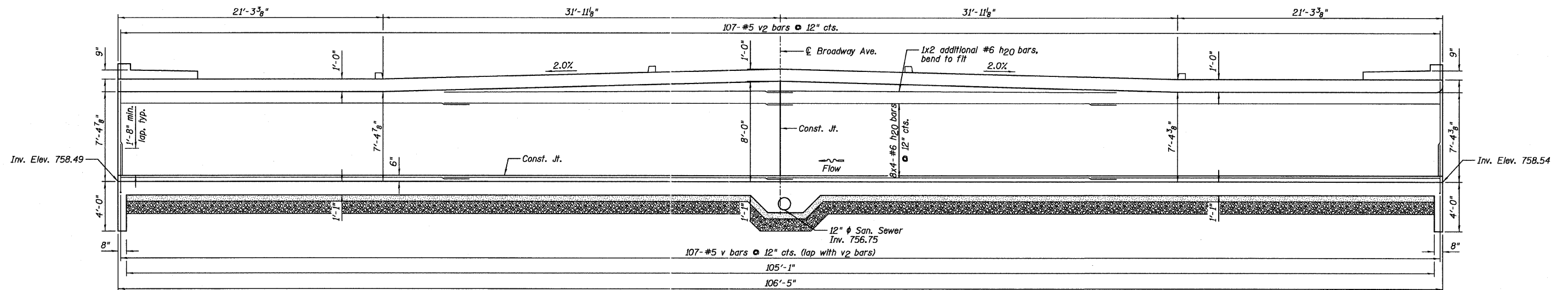
DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW
DATE 02/25/11

TOP SLAB REINFORCEMENT
STRUCTURE NO. 057-7841

SHEET NO. C9	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	07-00233-00-BR	MCLEAN	40	24
		SN 057-7841	CONTRACT NO. 91422		
		FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT			



NORTH EXTERIOR WALL (VIEW B-B)
(Looking Northeast)



NORTH INTERIOR WALL (VIEW C-C)
(Looking Northeast)

DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW

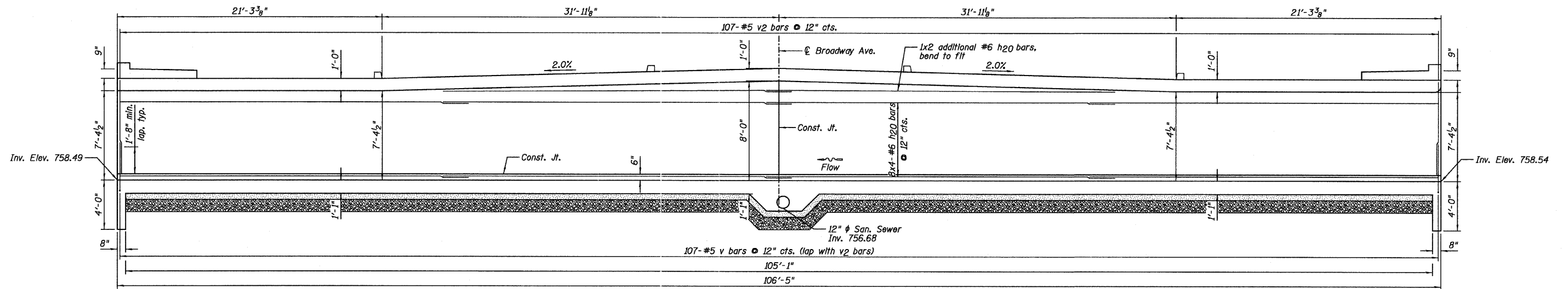
DATE 02/25/11

NOTES:

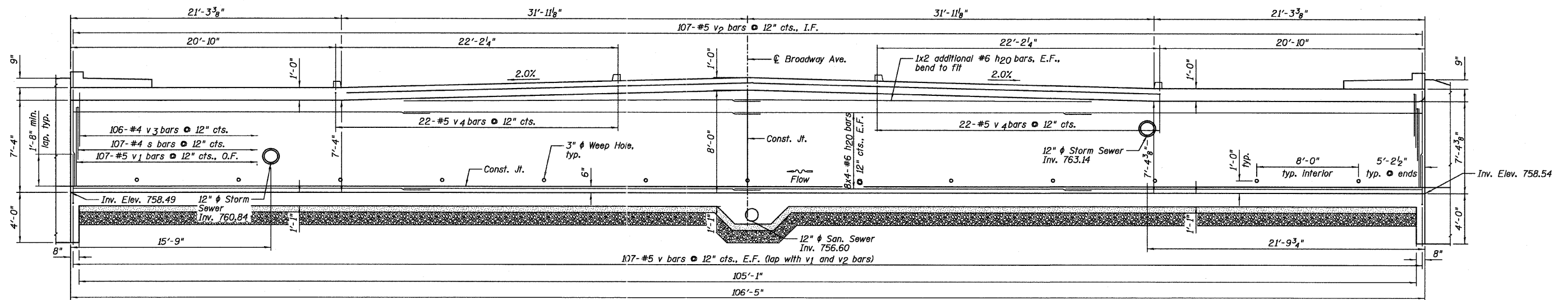
- 1.) See Sheet C8, for location of views.
- 2.) Steel Reinforcement in slabs not shown for clarity.
- 3.) Cut h20, s, v1, v2, v3 and v4 bars as necessary to miss Storm Sewers.
- 4.) See Sheet C2 for reinforcement details & pipe opening details. E.F. denotes Each Face, O.F. denotes Outer Face and I.F. denotes Inner Face.
- 5.) Construction Joint in wall at $\text{\textcircled{C}}$ Broadway Avenue may be relocated to accommodate bar laps.

CULVERT WALL ELEVATIONS
STRUCTURE NO. 057-7841

SHEET NO. C10 19 SHEETS	F.A.P. RTE.	SECTION 07-00233-00-BR	COUNTY MCLEAN	TOTAL SHEETS 40	SHEET NO. 25
	SN 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



SOUTH INTERIOR WALL (VIEW D-D)
(Looking Northeast)



SOUTH EXTERIOR WALL (VIEW E-E)
(Looking Northeast)

DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW

DATE 02/25/11

FARNSWORTH GROUP, INC.

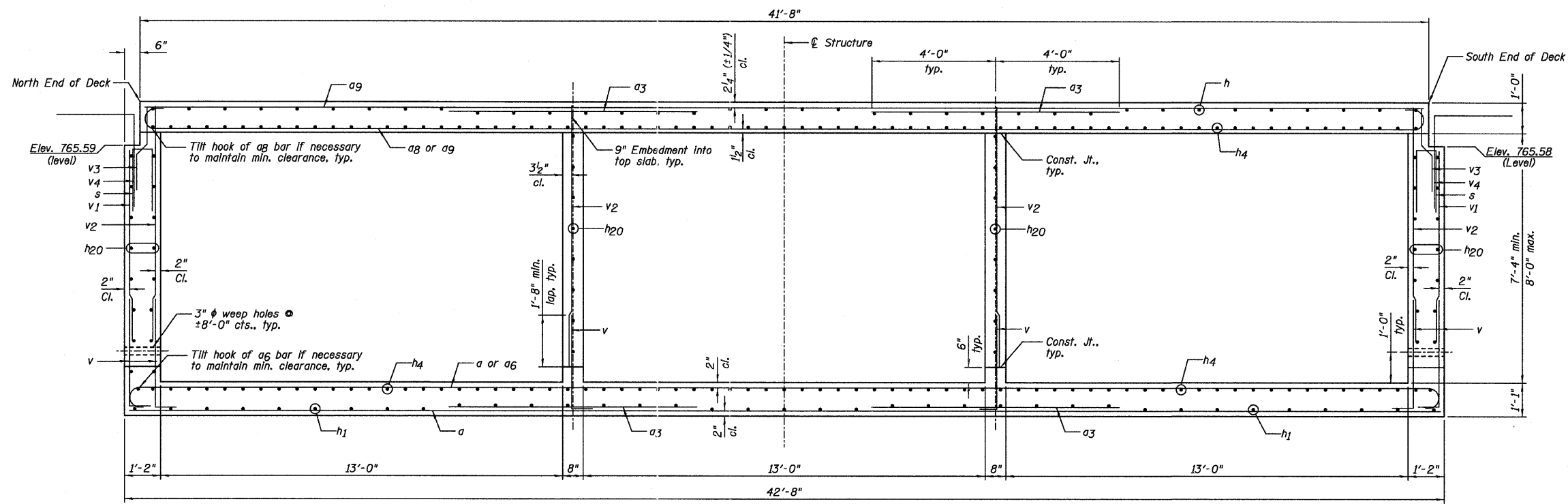
NOTES:

- 1.) See Sheet C8, for location of views.
- 2.) Steel Reinforcement in slabs not shown for clarity.
- 3.) Cut h20, s, v1, v2, v3 and v4 bars as necessary to miss Storm Sewers.
- 4.) See Sheet C2 for reinforcement details & pipe opening details. E.F. denotes Each Face, O.F. denotes Outer Face and I.F. denotes Inner Face.
- 5.) Construction Joint in wall at C Broadway Avenue may be relocated to accommodate bar laps.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

CULVERT WALL ELEVATIONS
STRUCTURE NO. 057-7841

SHEET NO. C11	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		07-00233-00-BR	MCLEAN	40	26
19 SHEETS	SN 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5		ILLINOIS		FED. AID PROJECT	



CROSS SECTION (SECTION I-I)
(Looking Northeast)

DESIGNED	JCZ
CHECKED	MSW
DRAWN	JWK
CHECKED	MSW

DATE 02/25/11

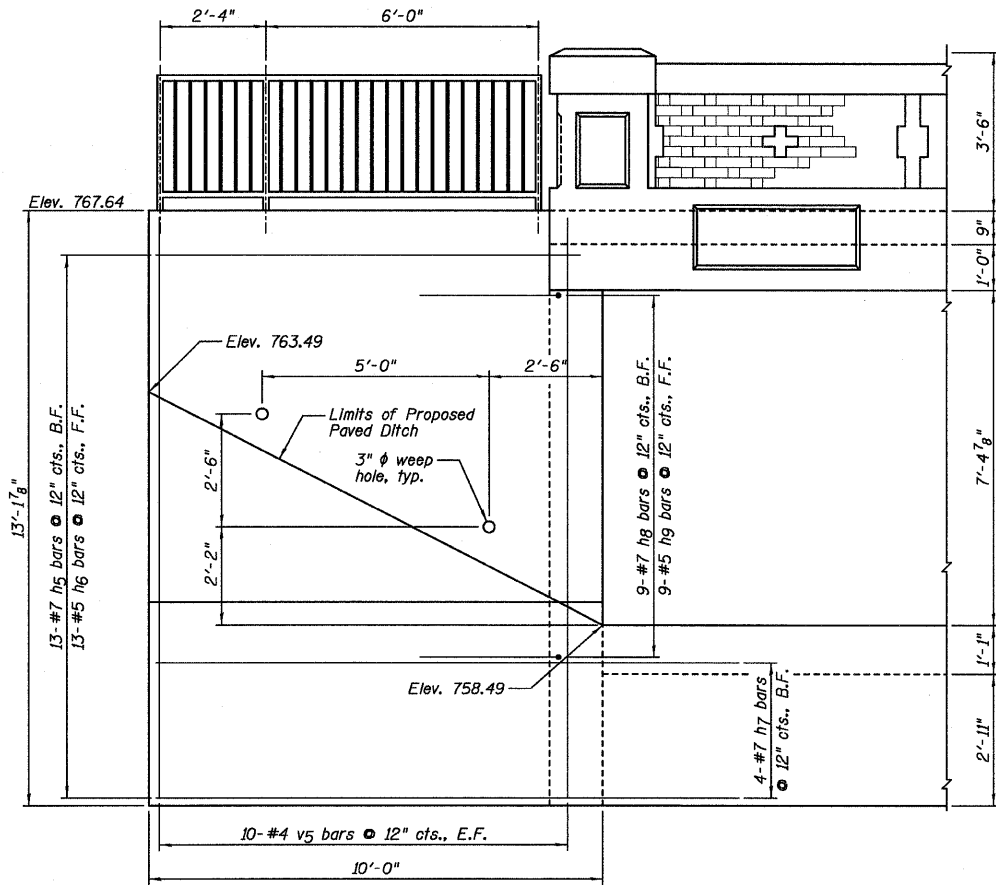
FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

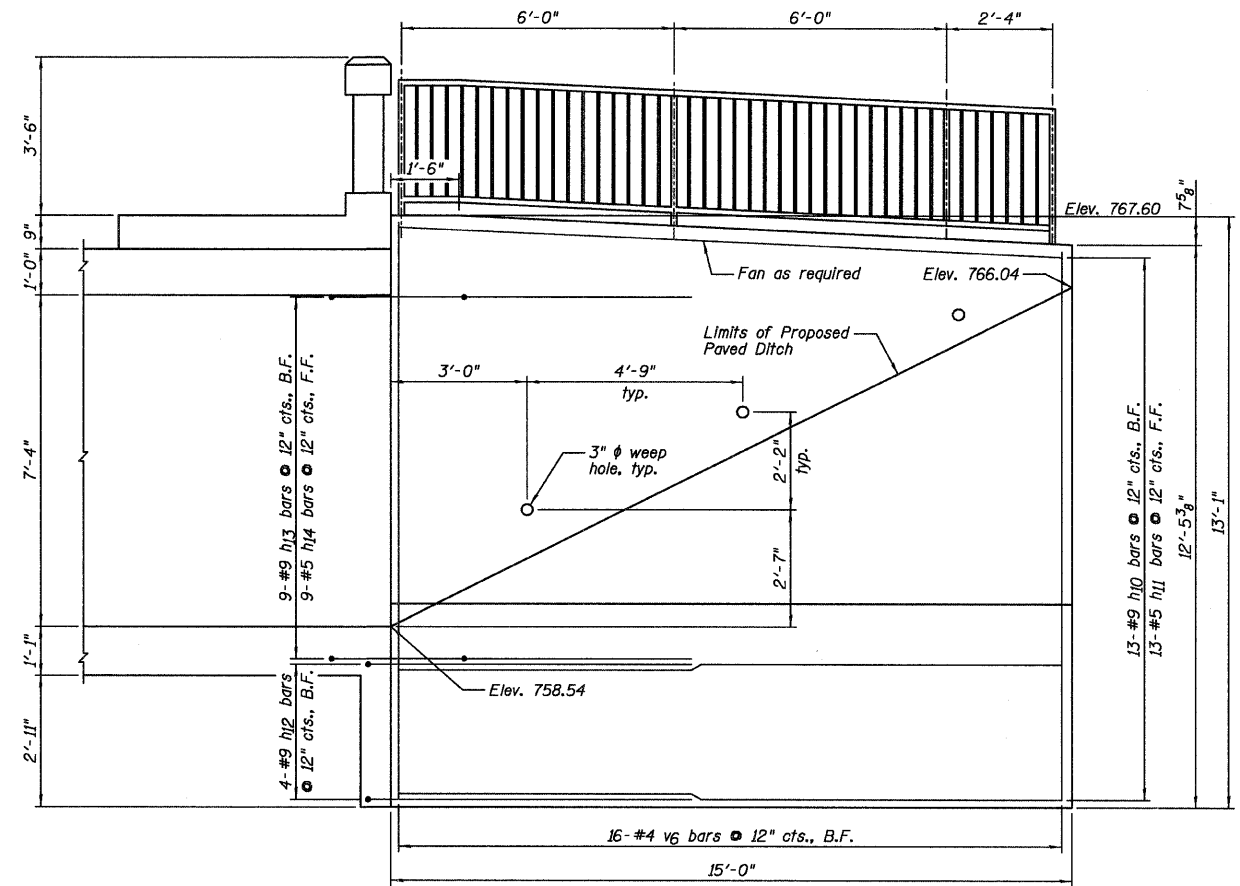
**CULVERT CROSS SECTION
STRUCTURE NO. 057-7841**

NOTES:
1.) Wall height varies. See Sheets C10 and C11.
2.) See Sheet C8 for location of Section I-I.

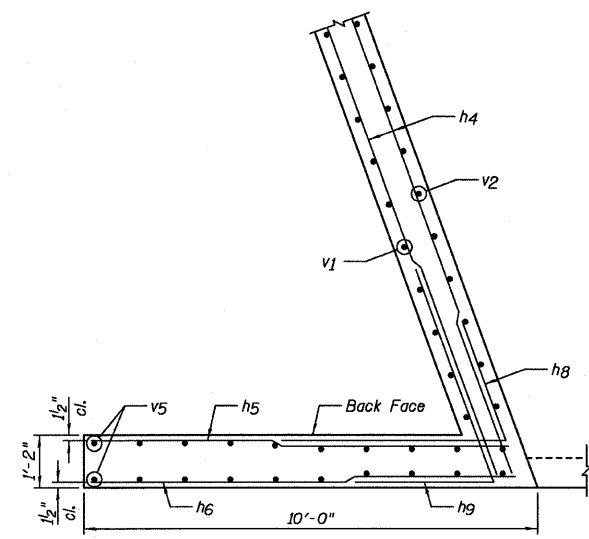
SHEET NO. C12	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	07-00233-00-BR	MCLEAN	40	27
		SN 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



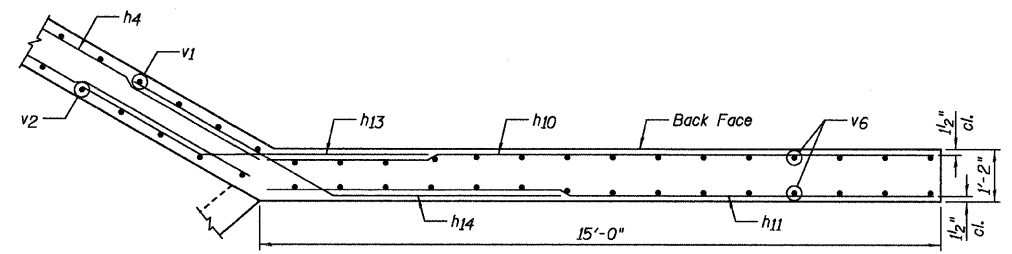
NORTHWEST WINGWALL ELEVATION



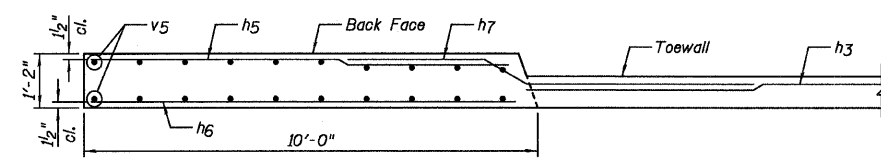
NORTHEAST WINGWALL ELEVATION



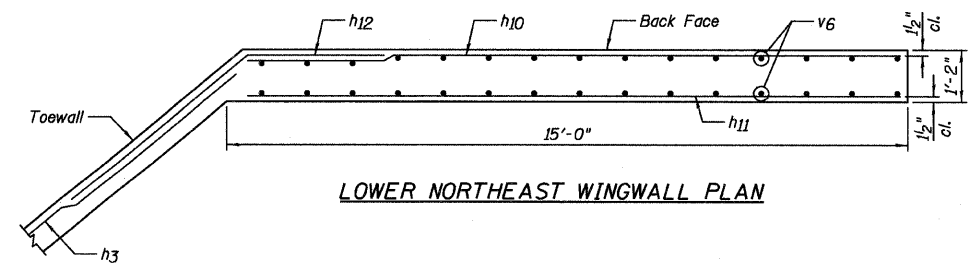
UPPER NORTHWEST WINGWALL PLAN



UPPER NORTHEAST WINGWALL PLAN



LOWER NORTHWEST WINGWALL PLAN



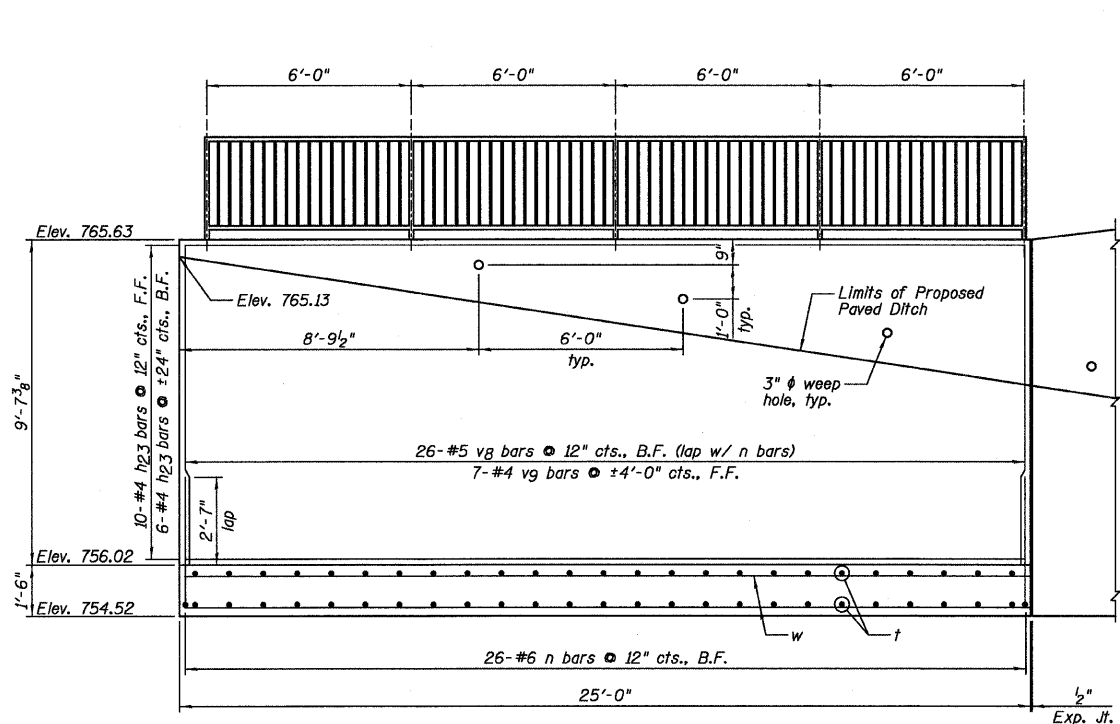
LOWER NORTHEAST WINGWALL PLAN

DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW
DATE 02/25/11

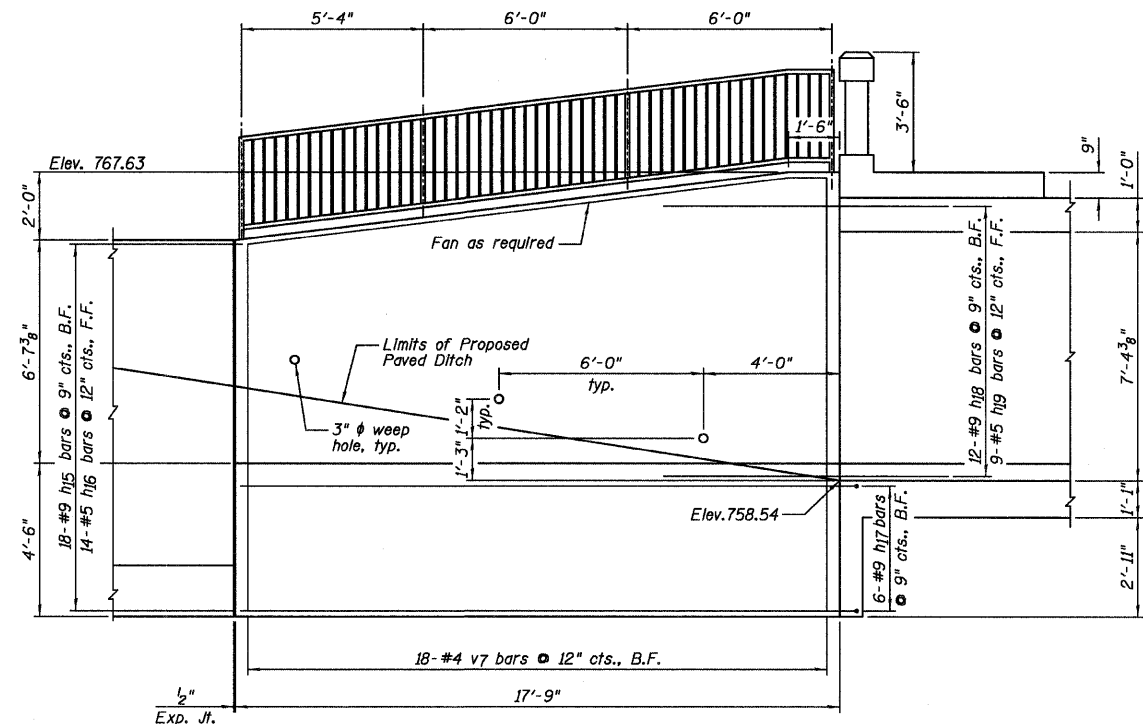
- NOTES:**
- 1.) E.F. denotes Each Face, F.F. denotes Front Face and B.F. denotes Back Face.
 - 2.) Order v6 bars full length, cut according to Bar Cutting Diagram on Sheet C16. Use remainder of bars in front face.
 - 3.) See Sheet C16 for Bar Bending Diagrams, Bill of Material and Joint Detail.
 - 4.) For bar lap lengths, see the General Notes on Sheet C2.

NORTHWEST AND NORTHEAST WINGWALLS STRUCTURE NO. 057-7841

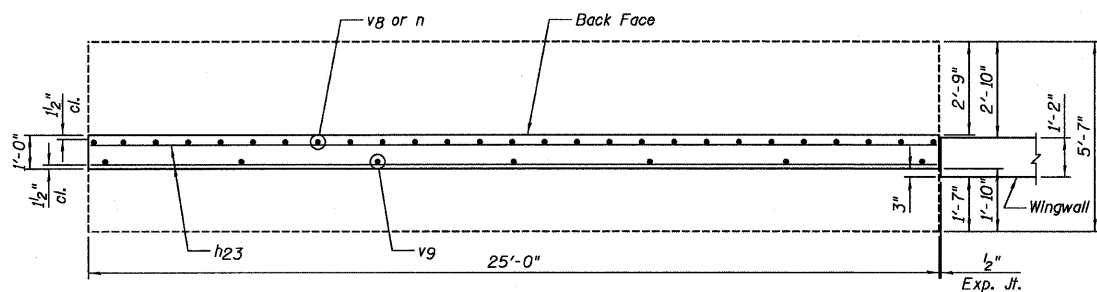
SHEET NO. C13	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	07-00233-00-BR	MCLEAN	40	28
		SN 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



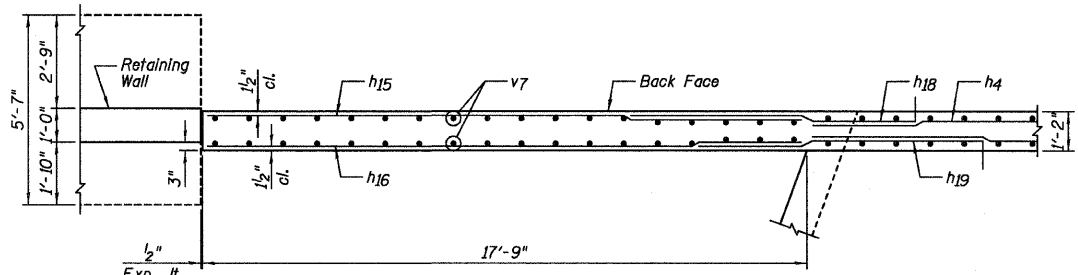
SOUTHEAST RETAINING WALL ELEVATION



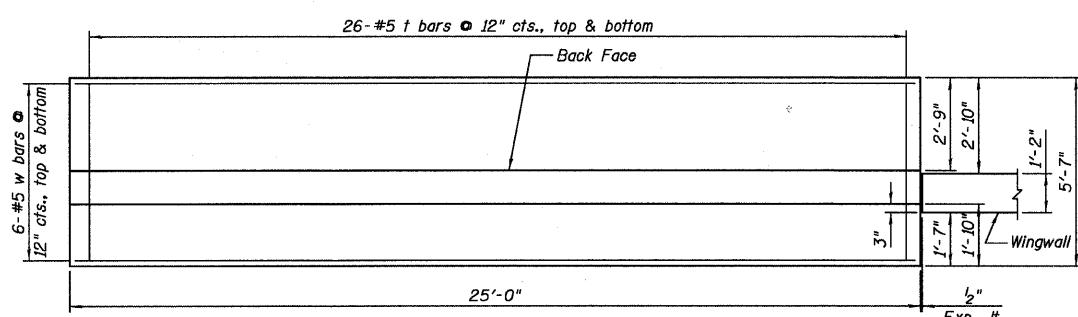
SOUTHEAST WINGWALL ELEVATION



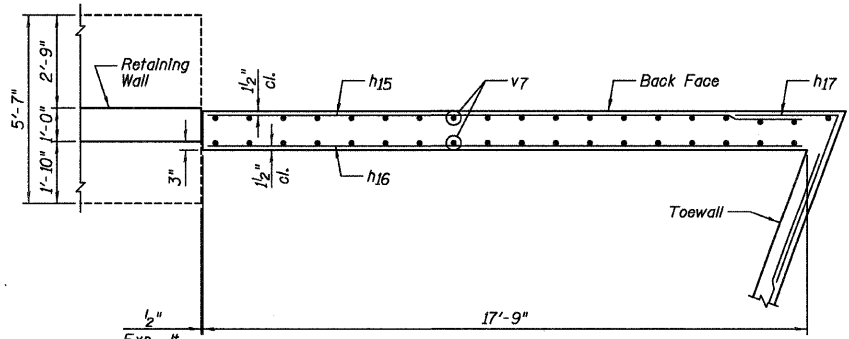
UPPER SOUTHEAST RETAINING WALL PLAN



UPPER SOUTHEAST WINGWALL PLAN



LOWER SOUTHEAST RETAINING WALL PLAN



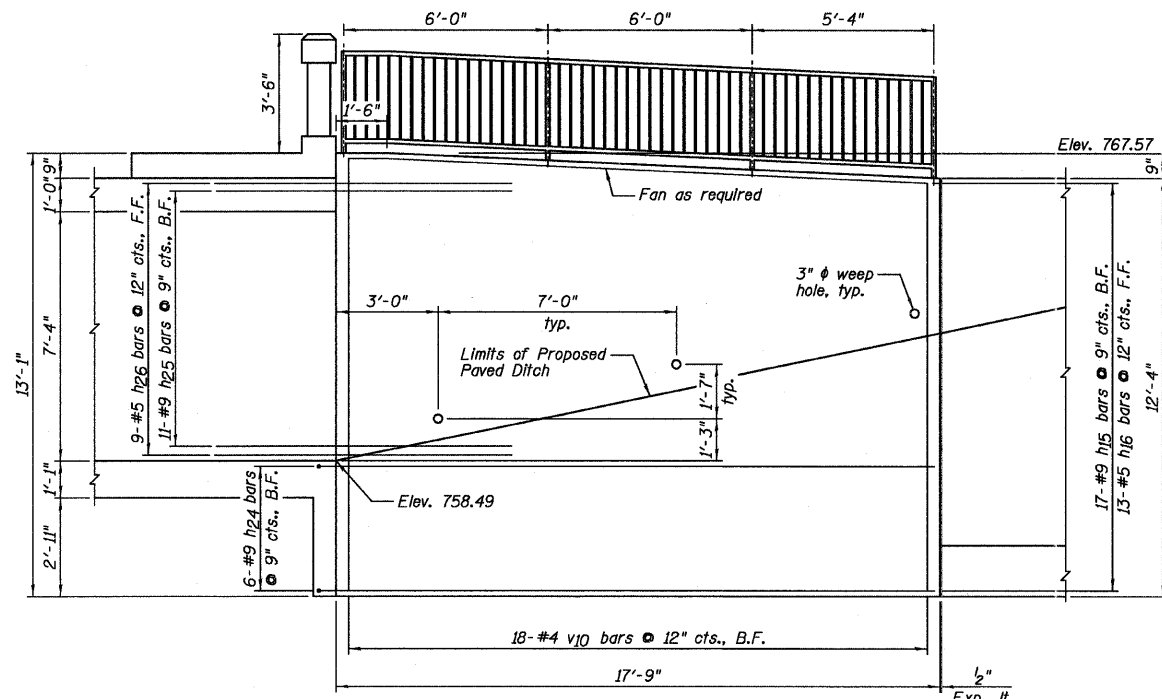
LOWER SOUTHEAST WINGWALL PLAN

SOUTHEAST WINGWALL AND RETAINING WALL STRUCTURE NO. 057-7841

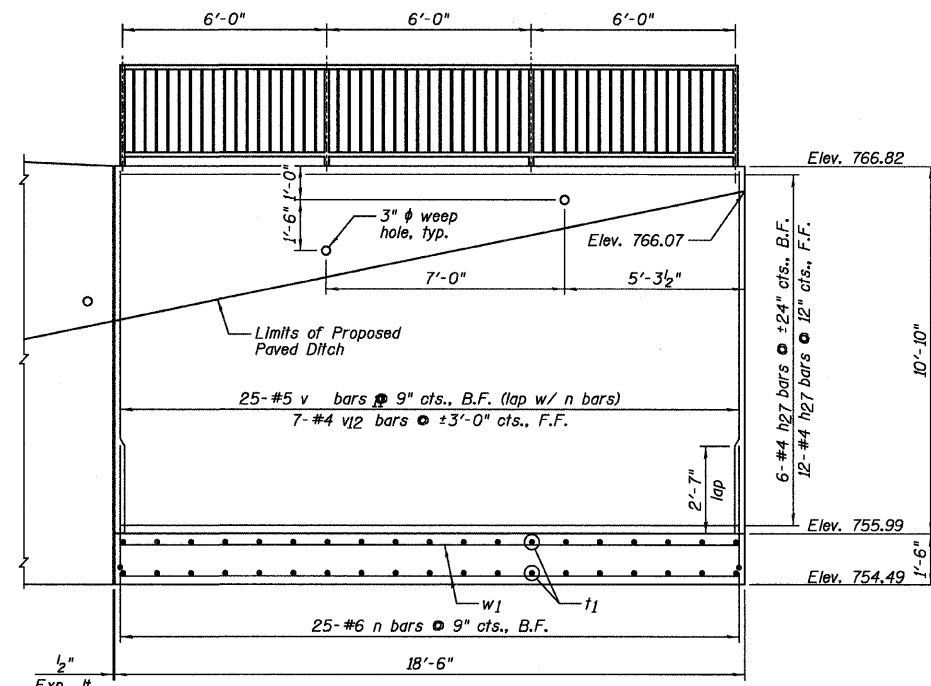
DESIGNED	JCZ
CHECKED	MSW
DRAWN	JWK
CHECKED	MSW
DATE	02/25/11

- NOTES:**
- 1.) E.F. denotes Each Face, F.F. denotes Front Face and B.F. denotes Back Face.
 - 2.) Order v7 bars full length, cut according to Bar Cutting Diagram on Sheet C16. Use remainder of bars in front face.
 - 3.) See Sheet C16 for Bar Bending Diagrams, Bill of Material and Joint Detail.
 - 4.) For bar lap lengths, see the General Notes on Sheet C2.
 - 5.) For Southeast Retaining Wall, calculated maximum soil pressure = 1,800 psf.

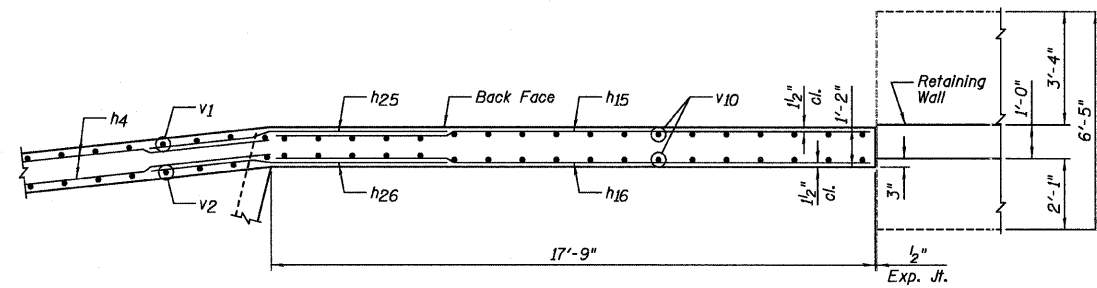
SHEET NO. C14	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	07-00233-00-BR	MCLEAN	40	29
		SN 057-7841	CONTRACT NO. 91422		
		FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT	



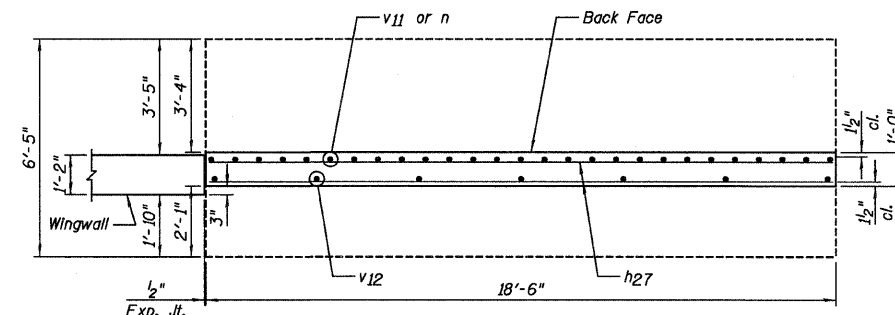
SOUTHWEST WINGWALL ELEVATION



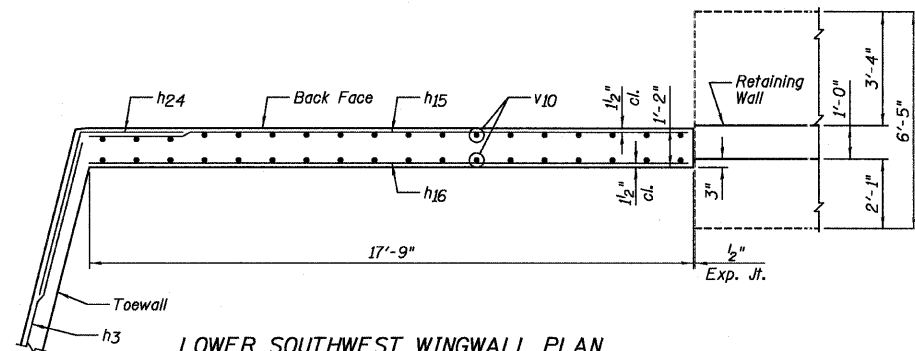
SOUTHWEST RETAINING WALL ELEVATION



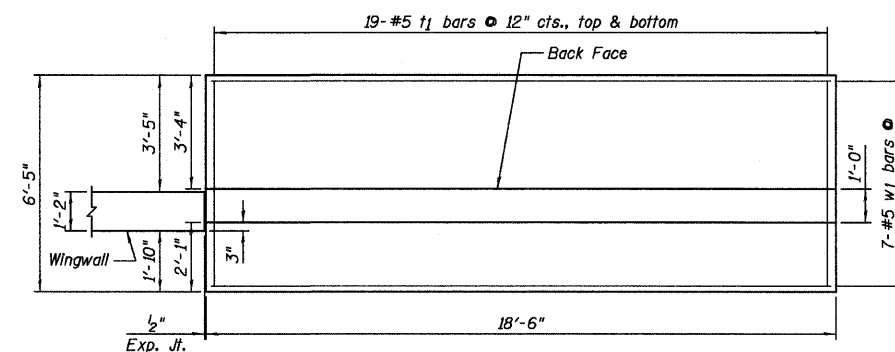
UPPER SOUTHWEST WINGWALL PLAN



UPPER SOUTHWEST RETAINING WALL PLAN



LOWER SOUTHWEST WINGWALL PLAN



LOWER SOUTHWEST RETAINING WALL PLAN

SOUTHWEST WINGWALL AND RETAINING WALL STRUCTURE NO. 057-7841

DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW

DATE 02/25/11

NOTES:

- 1.) E.F. denotes Each Face, F.F. denotes Front Face and B.F. denotes Back Face.
- 2.) Order v10 bars full length, cut according to Bar Cutting Diagram on Sheet C16. Use remainder of bars in front face.
- 3.) See Sheet C16 for Bar Bending Diagrams, Bill of Material and Joint Detail.
- 4.) For bar lap lengths, see the General Notes on Sheet C2.
- 5.) For Southwest Retaining Wall, calculated maximum soil pressure = 2,010 psf.

SHEET NO. C15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		07-00233-00-BR	MCLEAN	40	30
19 SHEETS	SN 057-7841		CONTRACT NO. 91422		
		FED. ROAD DIST. NO. 5	ILLINOIS FED. AID PROJECT		

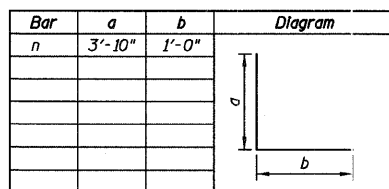
**BILL OF MATERIAL -
NORTHWEST WINGWALL**

Bar	No.	Size	Length	Shape
h5	13	#7	9'-3"	—
h6	13	#5	9'-3"	—
h7	4	#7	9'-0"	—
h8	9	#7	8'-0"	—
h9	9	#5	8'-0"	—
v5	20	#4	12'-9"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	840		
Concrete Box Culverts	Cu. Yd.	5.7		

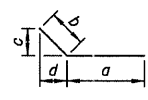
**BILL OF MATERIAL -
NORTHEAST WINGWALL**

Bar	No.	Size	Length	Shape
h10	13	#9	14'-8"	—
h11	13	#5	14'-8"	—
h12	4	#9	8'-0"	—
h13	9	#9	8'-0"	—
h14	9	#5	10'-0"	—
v6	16	#4	24'-10"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	1,560		
Concrete Box Culverts	Cu. Yd.	8.3		

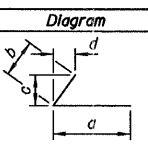
BAR BENDING DIAGRAMS



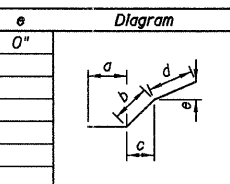
Bar	a	b	c	d
h12	5'-0"	3'-0"	1'-11 1/8"	2'-3 3/8"
h13	5'-0"	3'-0"	1'-6"	2'-7 1/8"
h14	5'-0"	5'-0"	2'-6"	4'-4 1/2"
h24	5'-0"	3'-0"	2'-10 7/8"	8 3/4"
h25	5'-0"	3'-0"	3 1/4"	2'-11 3/4"
h26	5'-0"	3'-0"	3 1/4"	2'-11 3/4"



Bar	a	b	c	d
h8	5'-0"	3'-0"	2'-9 7/8"	1'-0 3/8"
h9	5'-0"	3'-0"	2'-9 7/8"	1'-0 3/8"
h17	5'-3"	3'-0"	2'-9 7/8"	1'-0 3/8"



Bar	a	b	c	d	e
h7	5'-0"	1'-0"	11 1/4"	3'-0"	0"

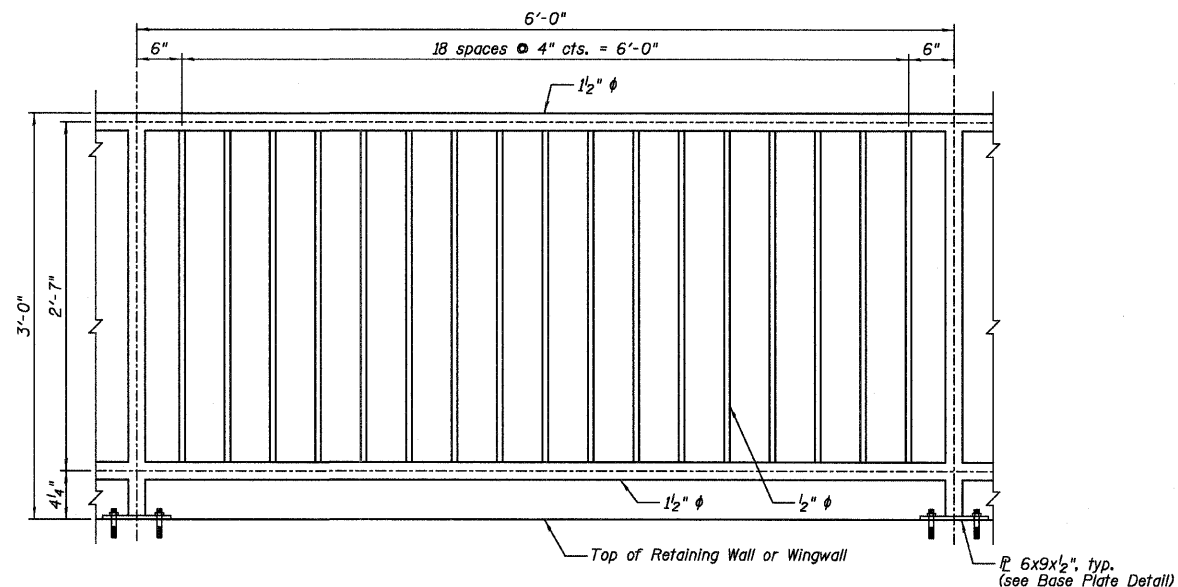


**BILL OF MATERIAL -
SOUTHWEST WINGWALL
AND RETAINING WALL**

Bar	No.	Size	Length	Shape
h15	17	#9	17'-5"	—
h16	13	#5	17'-5"	—
h24	6	#9	8'-0"	—
h25	11	#9	8'-0"	—
h26	9	#5	8'-0"	—
h27	18	#4	18'-2"	—
n	25	#6	4'-10"	—
t1	38	#5	6'-1"	—
v10	18	#4	24'-9"	—
v11	25	#5	10'-8"	—
v12	7	#4	10'-8"	—
w1	14	#5	18'-2"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	3,310		
Concrete Box Culverts	Cu. Yd.	23.8		

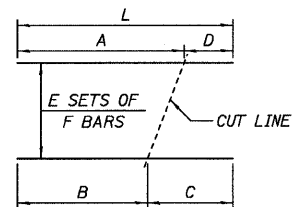
**BILL OF MATERIAL -
SOUTHEAST WINGWALL
AND RETAINING WALL**

Bar	No.	Size	Length	Shape
h15	18	#9	17'-5"	—
h16	14	#5	17'-5"	—
h17	6	#9	8'-3"	—
h18	12	#9	8'-0"	—
h19	9	#5	8'-0"	—
h23	16	#4	24'-8"	—
n	26	#6	4'-10"	—
t	52	#5	5'-3"	—
v7	18	#4	23'-6"	—
v8	26	#5	9'-5"	—
v9	7	#4	9'-5"	—
w	12	#5	24'-8"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	3,520		
Concrete Box Culverts	Cu. Yd.	26.0		

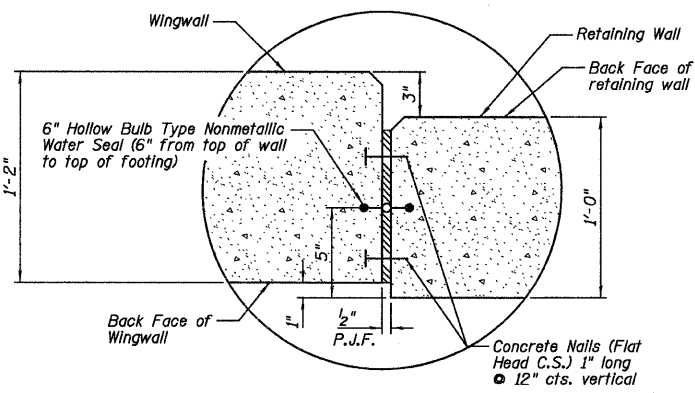


PIPE HANDRAIL, SPECIAL

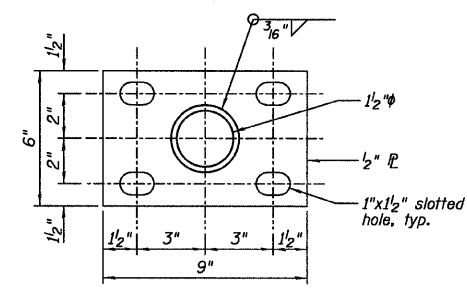
BAR CUTTING DIAGRAM



BAR	A	B	C	D	E	F	L
v6	12'-9"	12'-1"	12'-9"	12'-1"	1	16	24'-10"
v7	12'-9"	10'-9"	12'-9"	10'-9"	1	18	23'-6"
v10	12'-9"	12'-0"	12'-9"	12'-0"	1	18	24'-9"



DETAIL A



BASE PLATE DETAIL

DESIGNED JCZ
CHECKED MSW
DRAWN JWK
CHECKED MSW

DATE 02/25/11

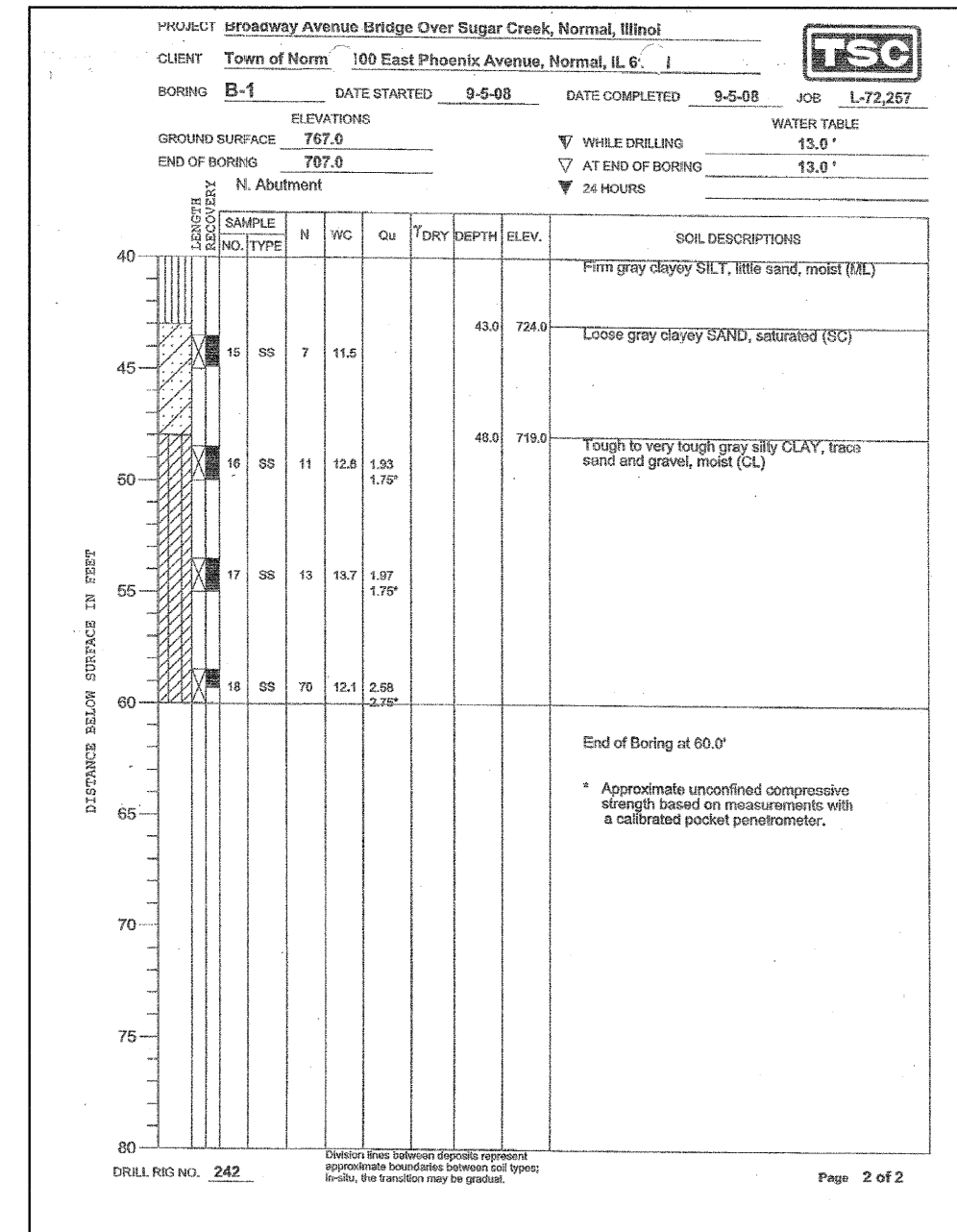
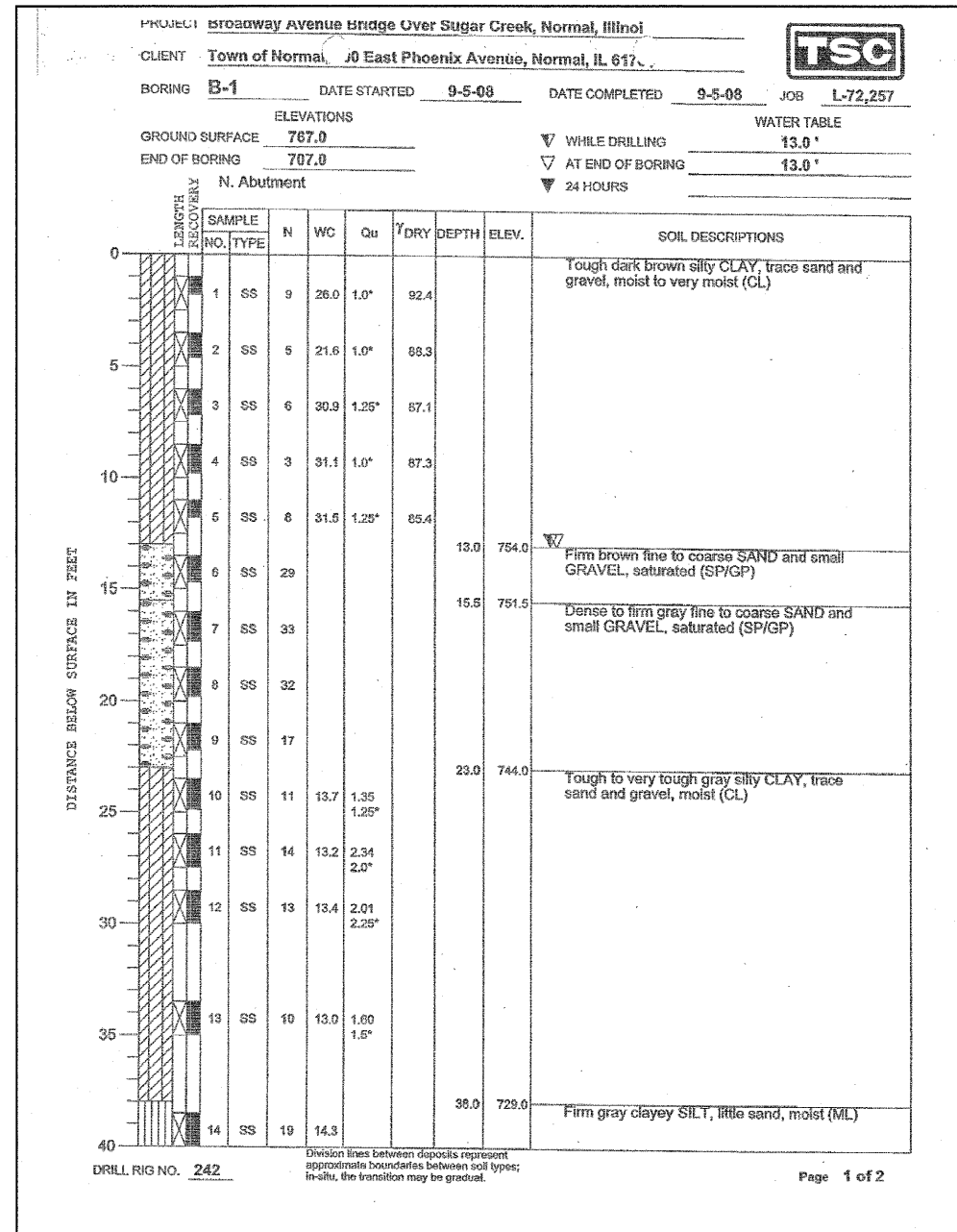
FARNSWORTH GROUP, INC.

**WINGWALL DETAILS
STRUCTURE NO. 057-7841**

NOTE:

All posts, railing, splces, anchor devices and bent plates shall be painted using the Shop and Field Applied Paint System or the Shop Applied Paint System. Color will be chosen by the Owner.

SHEET NO. C16	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		07-00233-00-BR	MCLEAN	40	31
19 SHEETS	SN 057-7841		CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5		ILLINOIS		FED. AID PROJECT	



DESIGNED <u>JCZ</u>
CHECKED <u>MSW</u>
DRAWN <u>JWK</u>
CHECKED <u>MSW</u>

DATE 02/25/11

FARNSWORTH GROUP, INC.

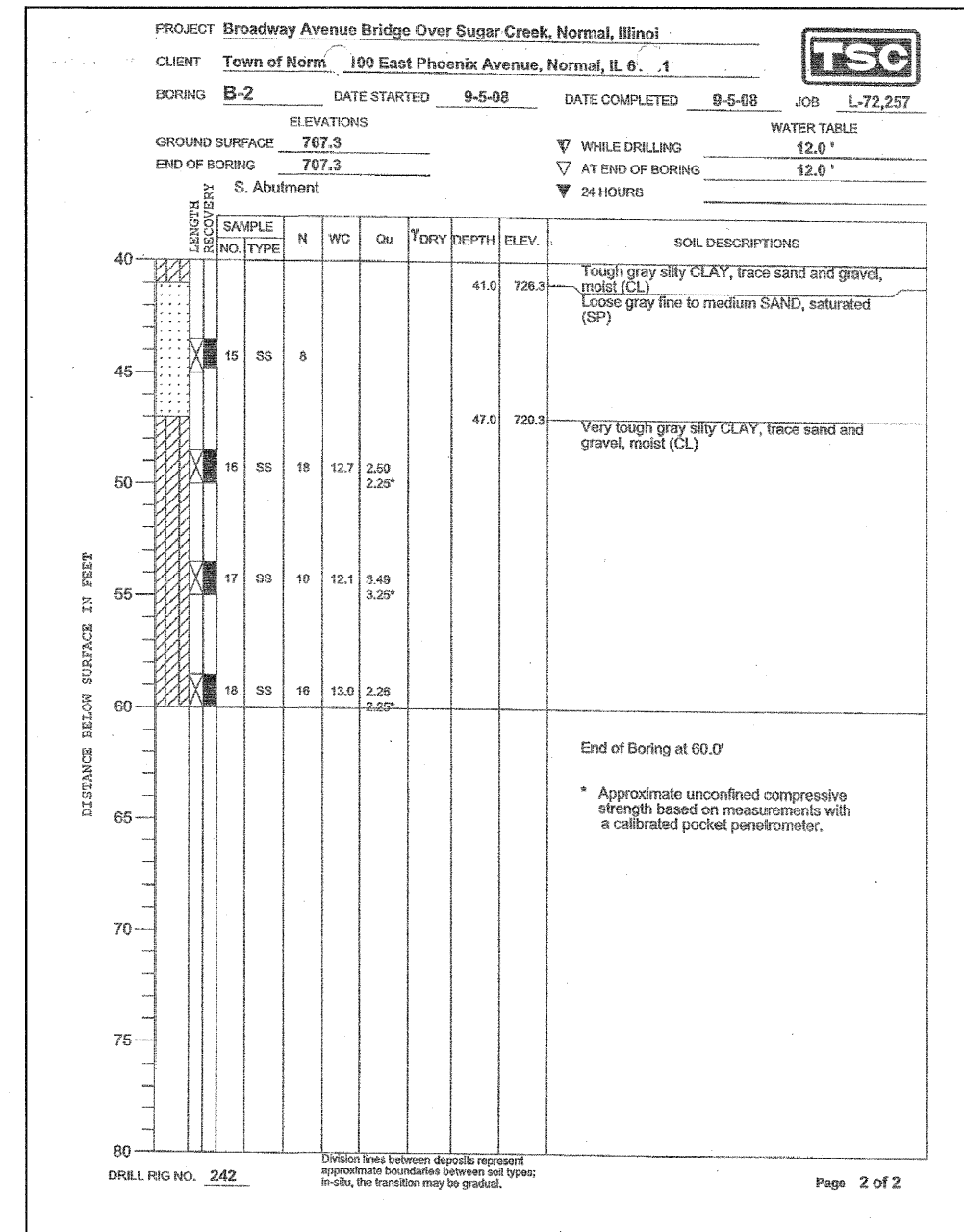
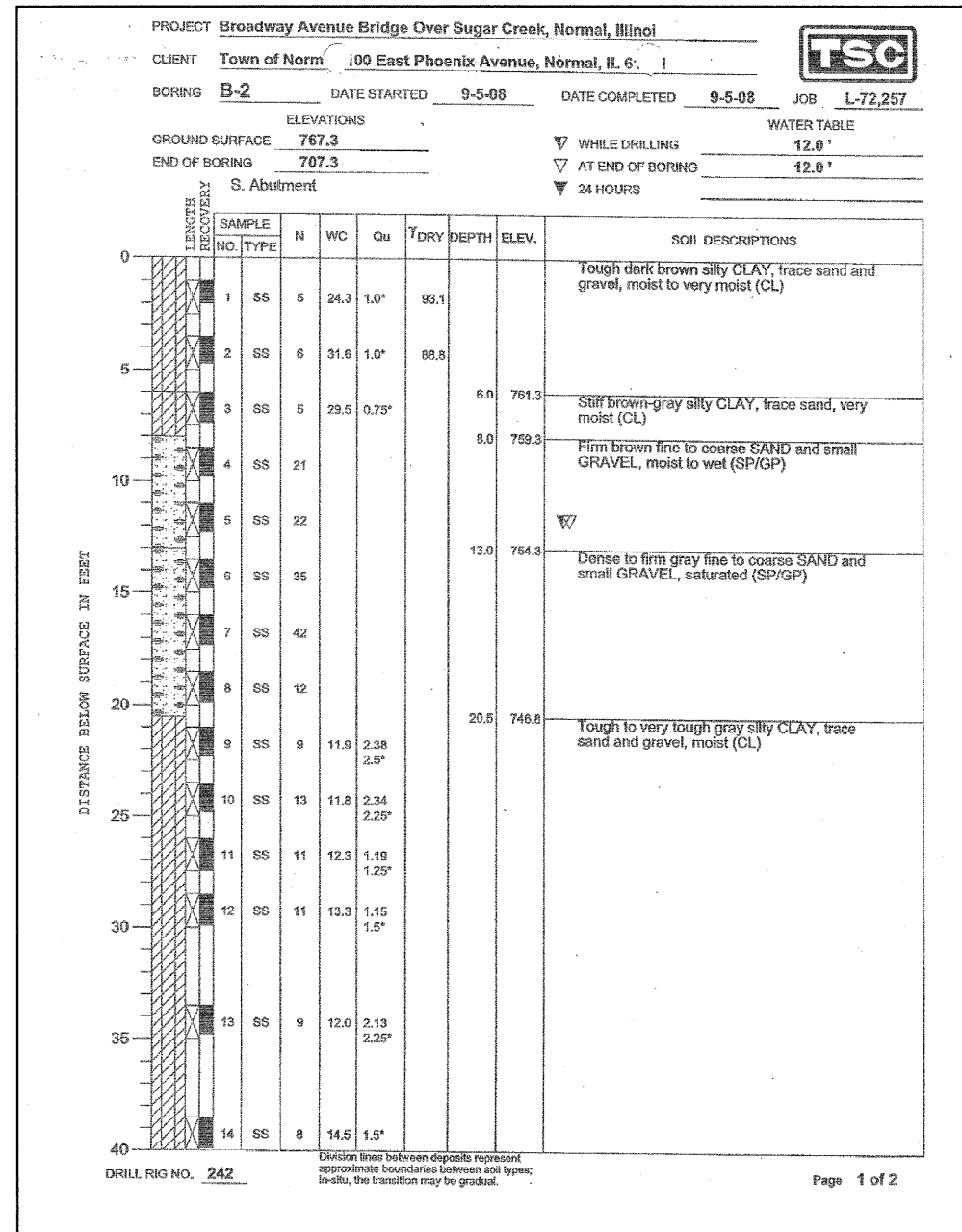
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

SOIL BORING LOGS
 STRUCTURE NO. 057-7841

NOTE:
 See Sheet C1 for boring location

SHEET NO. C18 19 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		07-00233-00-BR	MCLEAN	40	33
		SN 057-7841	CONTRACT NO. 91422		
		FED. ROAD DIST. NO. 5	ILLINOIS FED. AID PROJECT		

24-8175



DESIGNED **JCZ**

CHECKED **MSW**

DRAWN **JWK**

CHECKED **MSW**

DATE **02/25/11**

FARNSWORTH GROUP, INC.

SOIL BORING LOGS
STRUCTURE NO. 057-7841

NOTE:
See Sheet C1 for boring location

SHEET NO. C19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	07-00233-00-BR	MCLEAN	40	34
		SN 057-7841	CONTRACT NO. 91422		
		FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT	

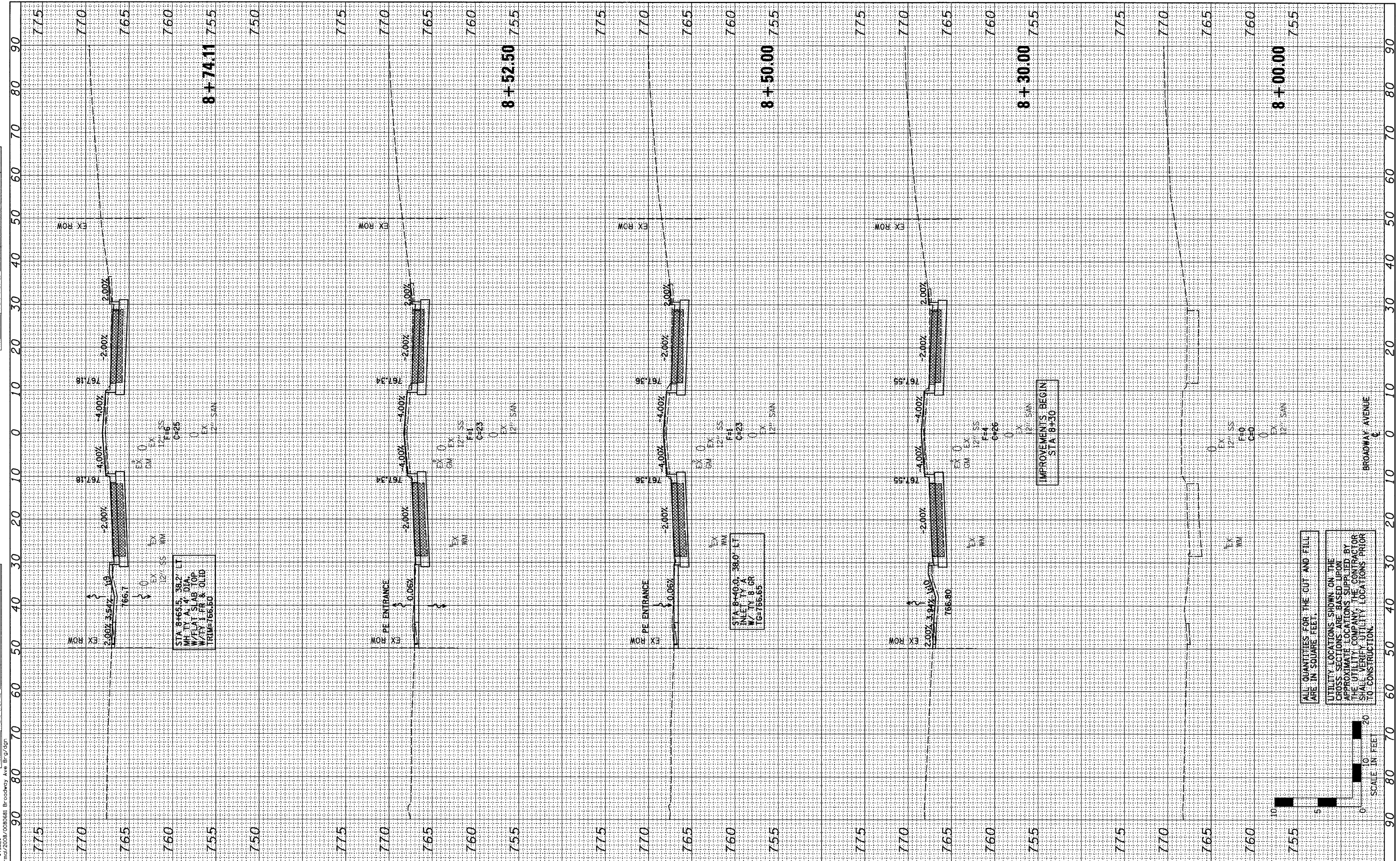
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8175

FINAL SURVEY	BY	DATE
SURVEYED		
PLAT ID		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLAT ID		
NOTE BOOK		
AREAS CHECKED		
NO.		

8:TIME\$
 \$DATE\$
 P:\Town_of_Normal\2008\0808081 Broadway Ave Brgr\csp



STA. 8+65.38.2' LT
 MH, 12\"/>

STA. 8+40.38.0' LT
 INLET, 12\"/>

IMPROVEMENTS BEGIN
 STA. 8+30

ALL QUANTITIES FOR THE CUT AND FILL
 UTILITY LOCATIONS SHOWN ON THE
 CROSS SECTIONS ARE BASED UPON
 APPROXIMATE LOCATIONS SUPPLIED BY
 THE UTILITY COMPANY. THE CONTRACTOR
 SHALL VERIFY UTILITY LOCATIONS PRIOR
 TO CONSTRUCTION.



DESIGNED	-	BAB/JCZ	REVISED	-
DRAWN	-	JTC/JWK	REVISED	-
CHECKED	-	MSW	REVISED	-
DATE	-	02/25/11	REVISED	-

DESIGNED	-	BAB/JCZ	REVISED	-
DRAWN	-	JTC/JWK	REVISED	-
CHECKED	-	MSW	REVISED	-
DATE	-	02/25/11	REVISED	-

TOWN OF NORMAL

CROSS SECTIONS

**BROADWAY AVENUE OVER SUGAR CREEK
 SECTION 07-00233-00-BR
 MCLEAN, COUNTY**

SCALE: H=10, V=5 SHEET NO. 35 OF 40 SHEETS STA. 8+00.00 TO STA. 8+74.11

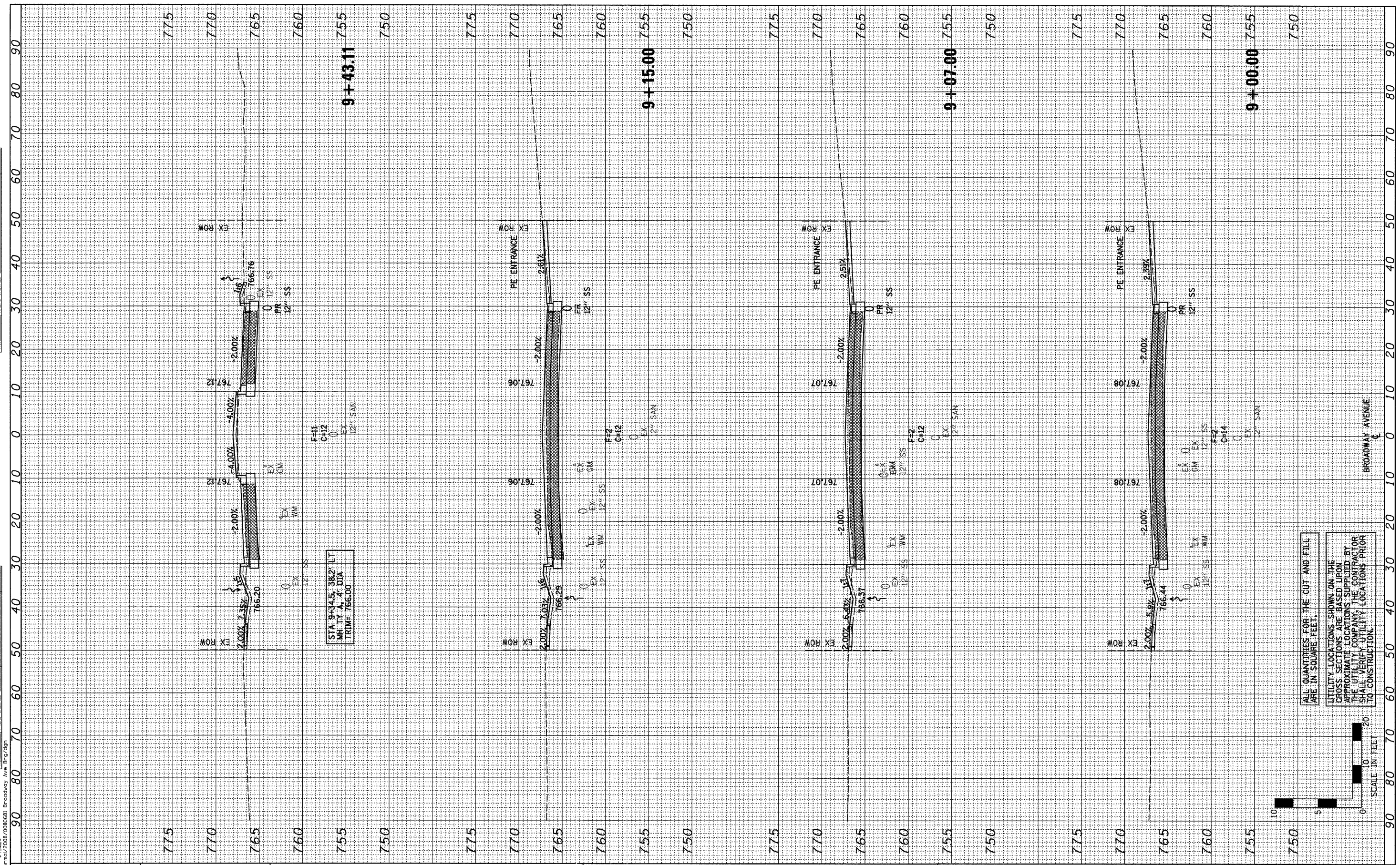
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	35
	S.N. 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

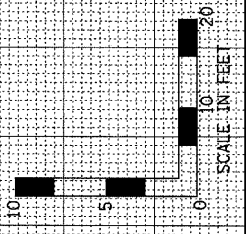
ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

DESIGNED	-	BAB/JCZ	REVISED	-
DRAWN	-	JTC/JWK	REVISED	-
CHECKED	-	MSW	REVISED	-
DATE	-	02/25/11	REVISED	-

STA. 9+43.11
 38.2' LT
 4.0' DIA
 TRIM = 766.00



ALL QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.
 UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.



TOWN OF NORMAL

SCALE: H=10, V=5	
SHEET NO. 36 OF 40 SHEETS	STA. 9+00.00 TO STA. 9+43.11

**BROADWAY AVENUE OVER SUGAR CREEK
 SECTION 07-00233-00-BR
 MCLEAN, COUNTY**

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	36
	S.N. 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

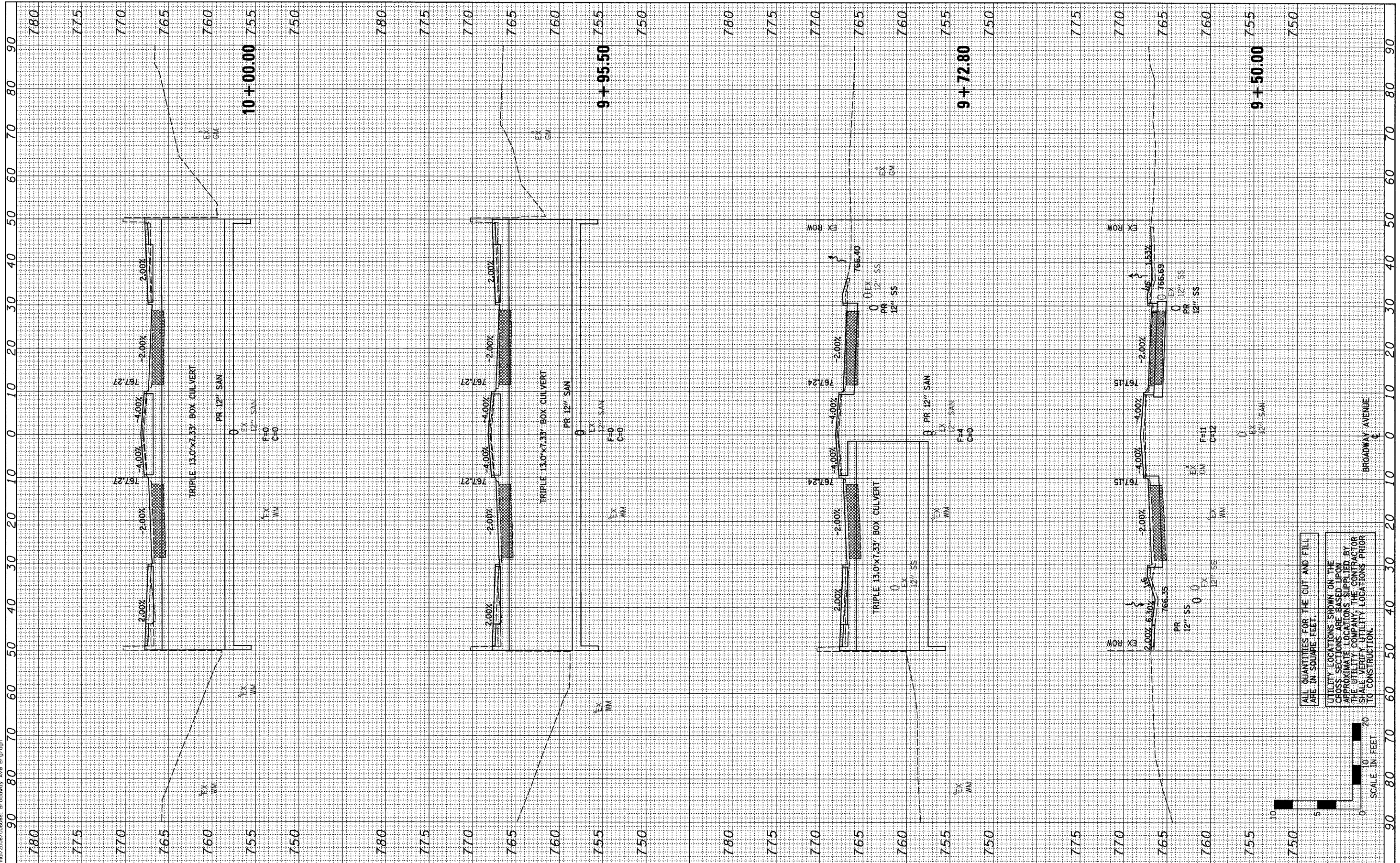
FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

FINAL SURVEY	BY	DATE
NO. _____		
NO. _____		
NO. _____		
NO. _____		

ORIGINAL SURVEY	BY	DATE
NO. _____		
NO. _____		
NO. _____		
NO. _____		

FILE# 07-00233-00-BR
 DATE 02/25/11
 TOWN OF NORMAL/2008/0000081 Broadway Ave Br/g/dp



DESIGNED -	BAB/JCZ	REVISED -	
DRAWN -	JTC/JWK	REVISED -	
CHECKED -	MSW	REVISED -	
DATE -	02/25/11	REVISED -	

TOWN OF NORMAL

CROSS SECTIONS
 SCALE: H=10, V=5
 SHEET NO. 37 OF 40 SHEETS
 STA. 9+50.00 TO STA. 10+00.00

BROADWAY AVENUE OVER SUGAR CREEK
SECTION 07-00233-00-BR
MCLEAN, COUNTY

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	37
	S.N. 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT				

FARNSWORTH GROUP, INC.

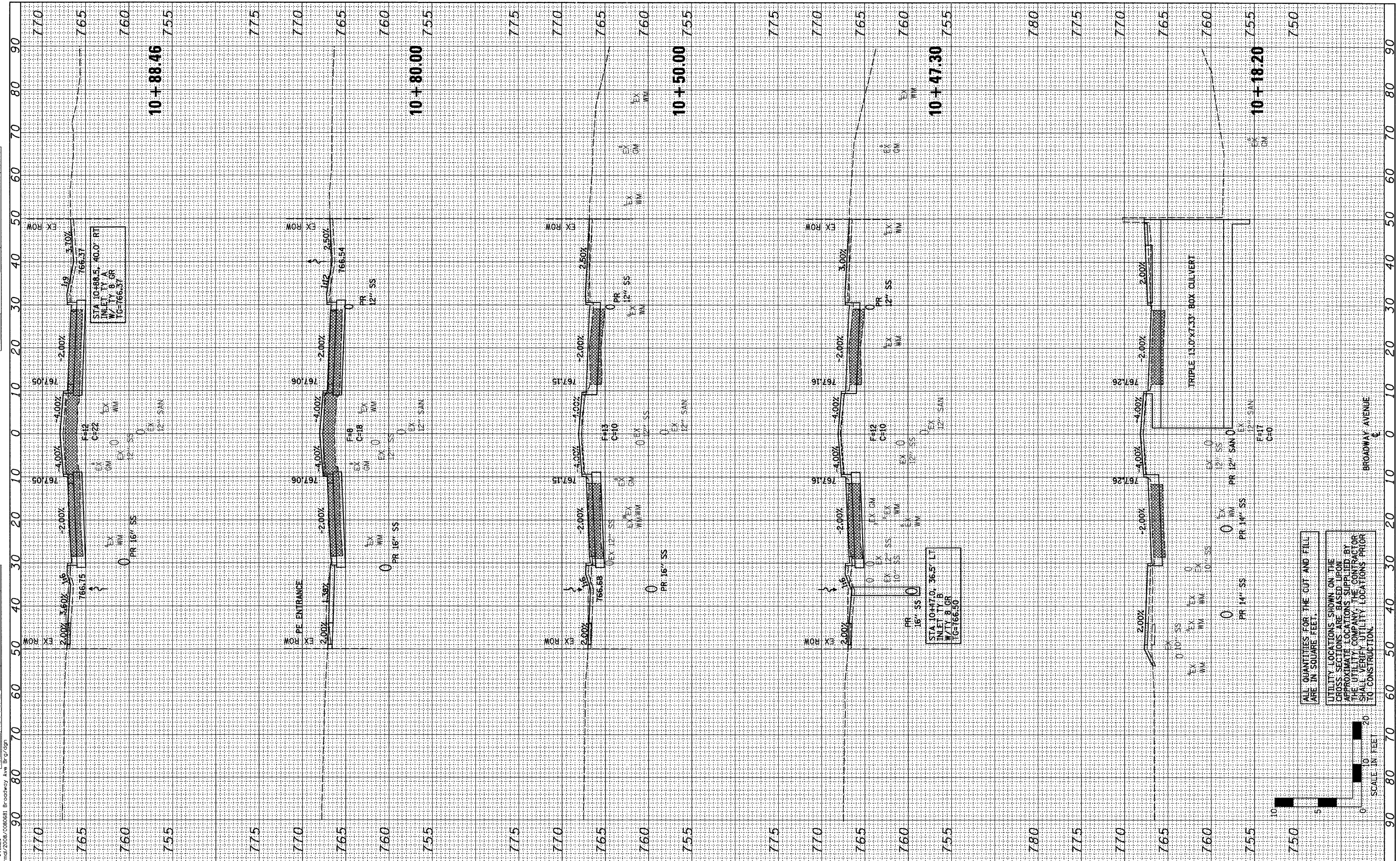
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8175

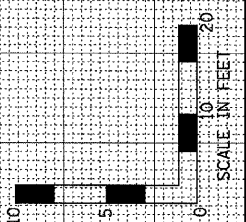
FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		
AREAS CHECKED		

FILE# 07-00233-00-BR
 DATE 02/25/11
 PROJECT: BROADWAY AVENUE OVER SUGAR CREEK



ALL QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.
 UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.



DESIGNED -	BAB/JCZ	REVISED -	
DRAWN -	JTC/JWK	REVISED -	
CHECKED -	MSW	REVISED -	
DATE -	02/25/11	REVISED -	

DESIGNED -	BAB/JCZ	REVISED -	
DRAWN -	JTC/JWK	REVISED -	
CHECKED -	MSW	REVISED -	
DATE -	02/25/11	REVISED -	

TOWN OF NORMAL

CROSS SECTIONS
 SCALE: H=10, V=5
 SHEET NO. 38 OF 40 SHEETS
 STA. 10+18.20 TO STA. 10+88.46

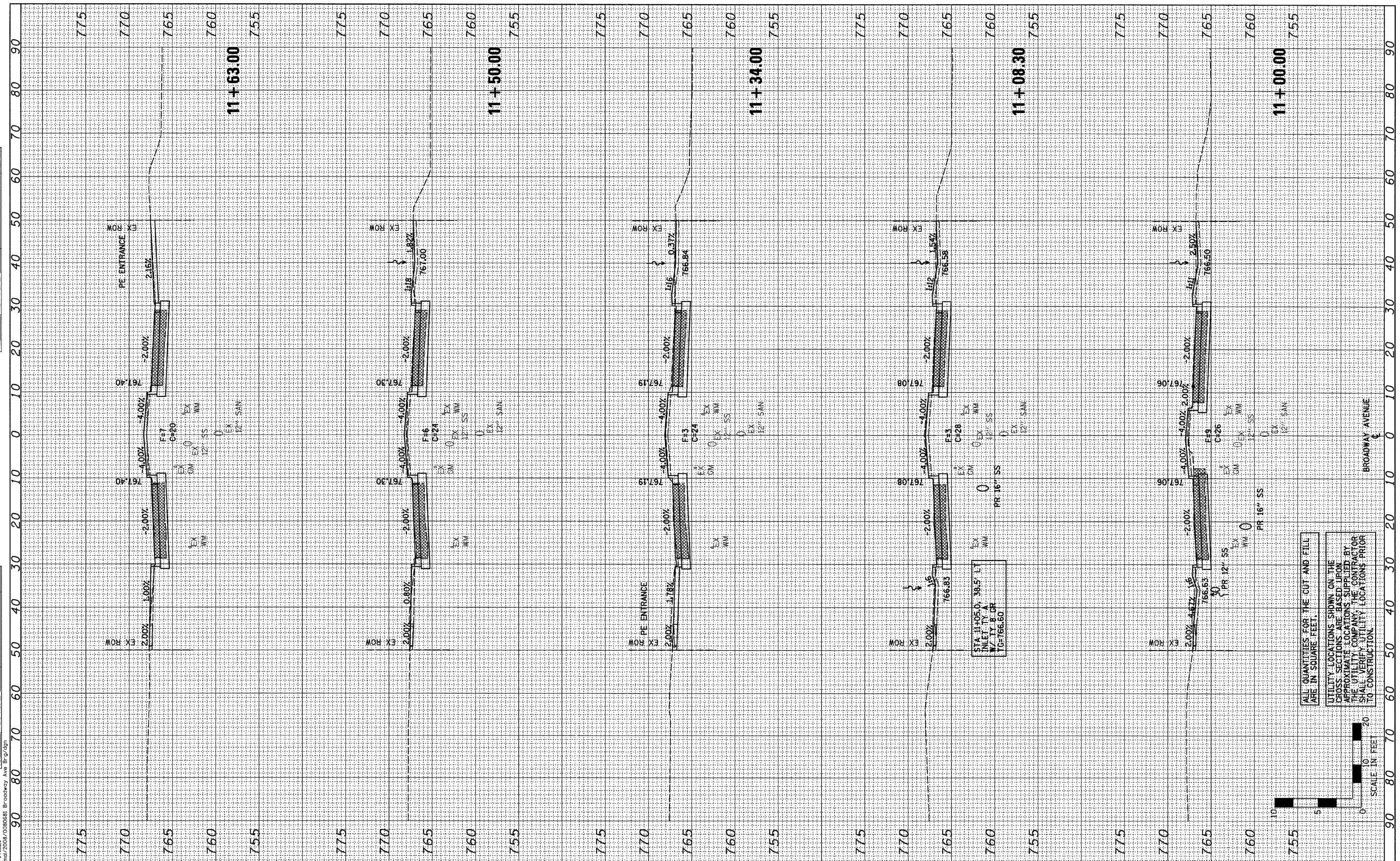
BROADWAY AVENUE OVER SUGAR CREEK
SECTION 07-00233-00-BR
MCLEAN, COUNTY

F.A.U.L.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	38
	S.N. 057-7841			CONTRACT NO. 91422
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
NO. _____		
NO. _____		
NO. _____		
NO. _____		

ORIGINAL SURVEY	BY	DATE
NO. _____		
NO. _____		
NO. _____		
NO. _____		

FILE# 07-00233-00-BR
 DATE 02/25/11
 PROJECT Normal/2008/0008081 Broadway Ave Brg/5gn



STA 11+05.0, 38.5' LT
 INLET TY A
 W/ TY B GR
 TG=766.60

ALL QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.
 UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.



DESIGNED	-	BAB/JCZ	REVISED	-
DRAWN	-	JTC/JWK	REVISED	-
CHECKED	-	MSW	REVISED	-
DATE	-	02/25/11	REVISED	-

TOWN OF NORMAL

CROSS SECTIONS

BROADWAY AVENUE OVER SUGAR CREEK
 SECTION 07-00233-00-BR
 MCLEAN, COUNTY

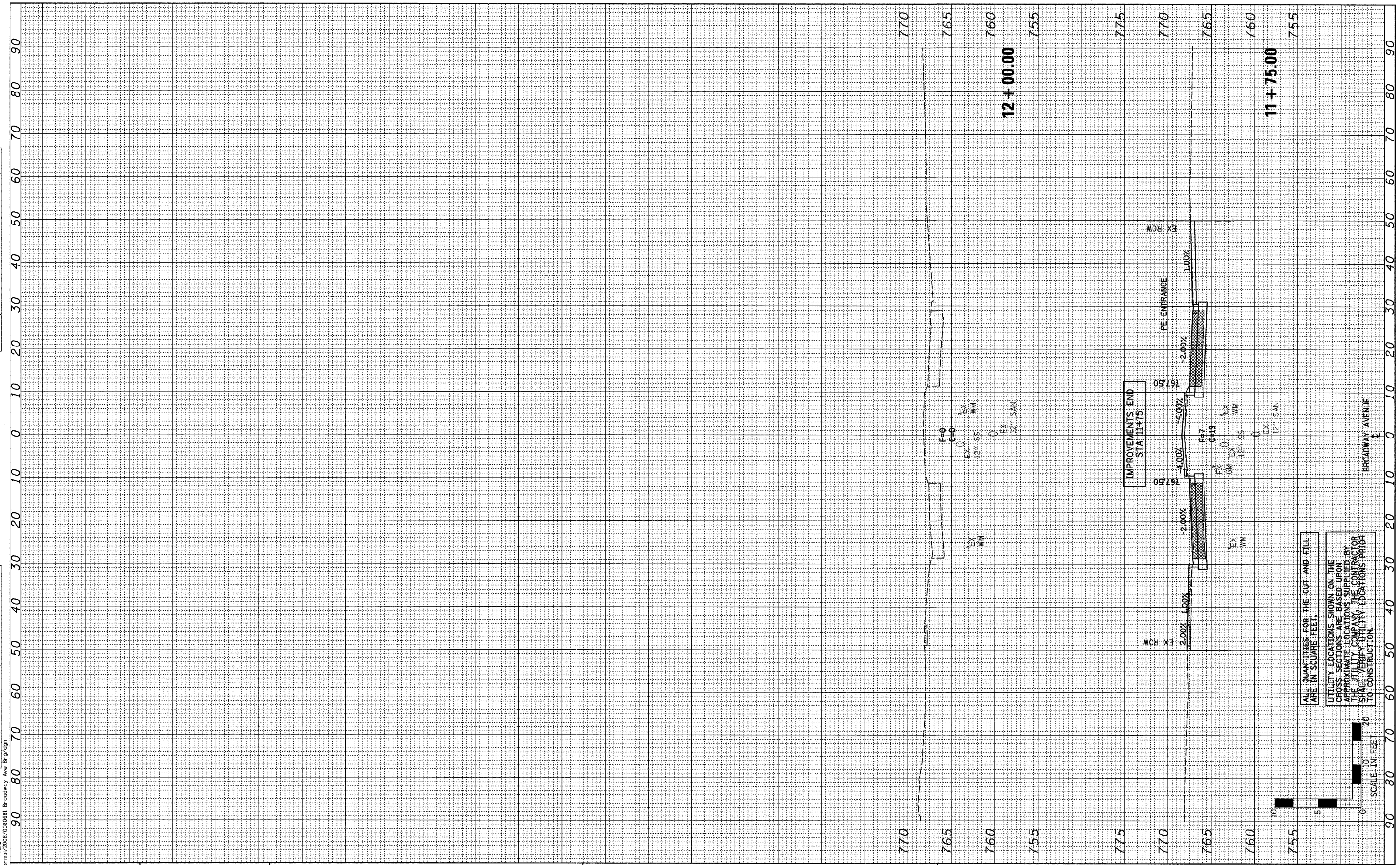
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	39
	S.N. 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

SCALE: H=10, V=5 SHEET NO. 39 OF 40 SHEETS STA. 11+00.00 TO STA. 11+63.00

FINAL SURVEY NOTE BOOK NO.	SURVEYED BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED BY	DATE

\$FILE#
\$DATE#
\$TIME#
\$PROJECT#



DESIGNED - BAB/JCZ	REVISED -
DRAWN - JTC/JWK	REVISED -
CHECKED - MSW	REVISED -
DATE - 02/25/11	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

TOWN OF NORMAL

CROSS SECTIONS

SCALE: H=10, V=5 SHEET NO. 40 OF 40 SHEETS STA. 11+75.00 TO STA. 12+00.00

BROADWAY AVENUE OVER SUGAR CREEK
SECTION 07-00233-00-BR
MCLEAN, COUNTY

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00233-00-BR	MCLEAN	40	40
	S.N. 057-7841	CONTRACT NO. 91422		
FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT				