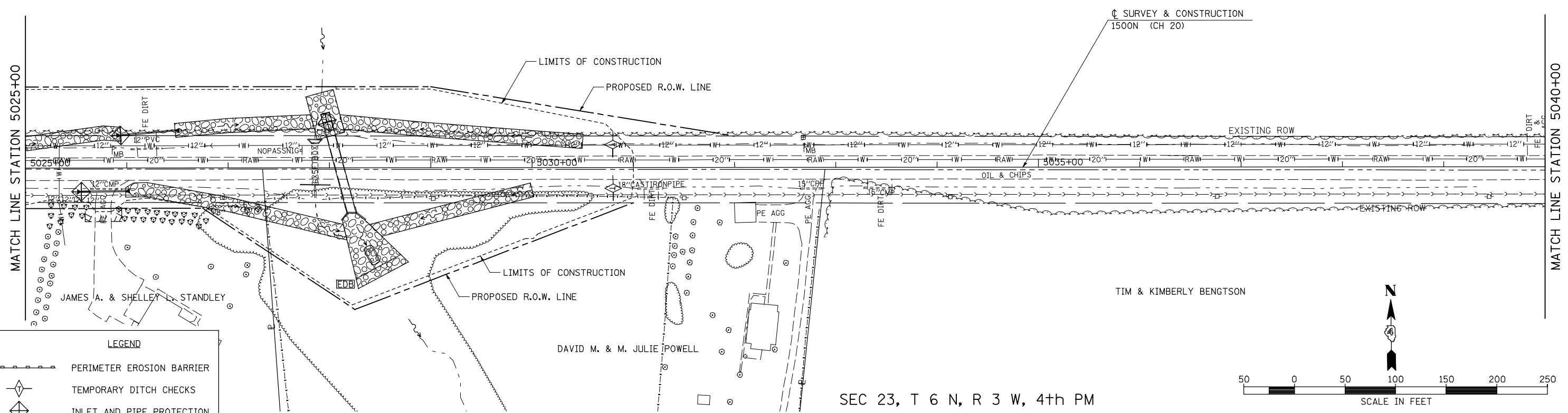


FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 407 (IL RTE 336) EROSION CONTROL PLAN 1500N (CH 20) STA. 4998+00 TO STA. 5025+00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\Transportation\2891\Grading Plans\2891E22\CH20.dgn	DRAWN - JMO	REVISED -	407			(55-31A)	McDONOUGH	671	201	
PLOT SCALE = 1/8"=50' / IN.	CHECKED - AWM	REVISED -	CONTRACT NO. 68A42							
PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -	ILLINOIS FED. AID PROJECT							

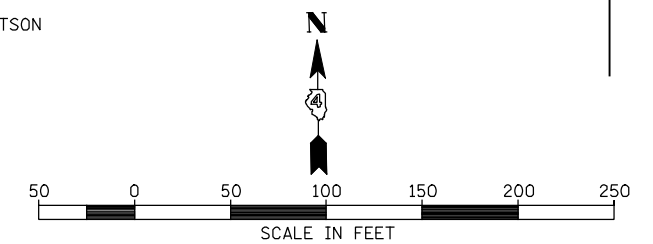
SEC 14, T 6 N, R 3 W, 4th PM

FIRST STATE BANK



LEGEND

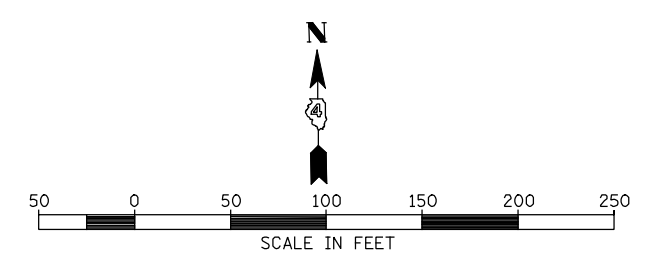
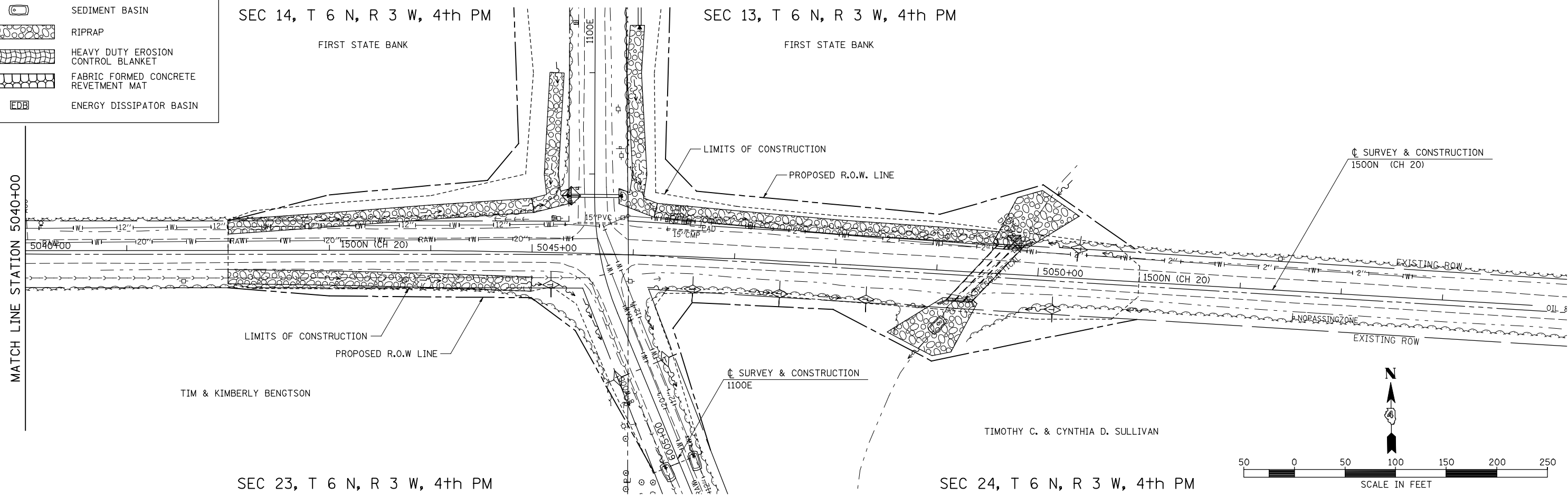
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS
	INLET AND PIPE PROTECTION
	SEDIMENT BASIN
	RIPRAP
	HEAVY DUTY EROSION CONTROL BLANKET
	FABRIC FORMED CONCRETE REVETMENT MAT
	ENERGY DISSIPATOR BASIN



SEC 23, T 6 N, R 3 W, 4th PM

SEC 14, T 6 N, R 3 W, 4th PM

SEC 13, T 6 N, R 3 W, 4th PM



SEC 23, T 6 N, R 3 W, 4th PM

SEC 24, T 6 N, R 3 W, 4th PM

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 407 (IL RTE 336) EROSION CONTROL PLAN 1500N (CH20) STA. 5025+00 TO STA. 5054+00	F.A.P. RTE. 407	SECTION (55-31A)	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 202
V:\Transportation\2891\Grading Plans\2891E22-A(CH20).dgn	DRAWN - JMO	REVISED -	CONTRACT NO. 68A42			ILLINOIS FED. AID PROJECT				
PLOT SCALE = 100.00' / IN.	CHECKED - AWM	REVISED -	SCALE: 1"=50'			SHEET NO. 2 OF 2 SHEETS	STA. 5025+00 TO STA. 5054+00			
PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -								

SEC 23, T 6 N, R 3 W, 4th PM

SEC 14, T 6 N, R 3 W, 4th PM

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION
- SEDIMENT BASIN
- RIPRAP
- HEAVY DUTY EROSION CONTROL BLANKET
- FABRIC FORMED CONCRETE REVETMENT MAT
- ENERGY DISSIPATOR BASIN

☩ SURVEY & CONSTRUCTION
1500N (CH 20)

TIM & KIMBERLY BENGTON

PROPOSED R.O.W. LINE

LIMITS OF CONSTRUCTION

☩ SURVEY & CONSTRUCTION
1100E

PROPOSED R.O.W. LINE

PROPOSED R.O.W. & A/C LINE

EXISTING ROW

1100E

6010+00

6015+00

1100E

EXISTING ROW

EXISTING ROW

6005+00

PROPOSED R.O.W. LINE

LIMITS OF CONSTRUCTION

☩ SURVEY & CONSTRUCTION
FAP 407 (IL RTE 336)

PROPOSED R.O.W. & A/C LINE

PROPOSED R.O.W. LINE

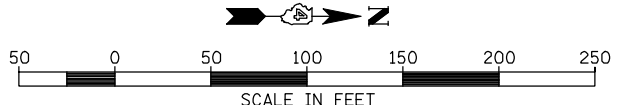
FIRST STATE BANK

PROPOSED R.O.W. LINE

TIMOTHY C. & CYNTHIA D. SULLIVAN

SEC 24, T 6 N, R 3 W, 4th PM

SEC 13, T 6 N, R 3 W, 4th PM



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
V:\Transportation\2891\Grading Plans\2891E\23(1100E).dgn		DRAWN - JMO	REVISED -
PLOT SCALE = 100.00' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

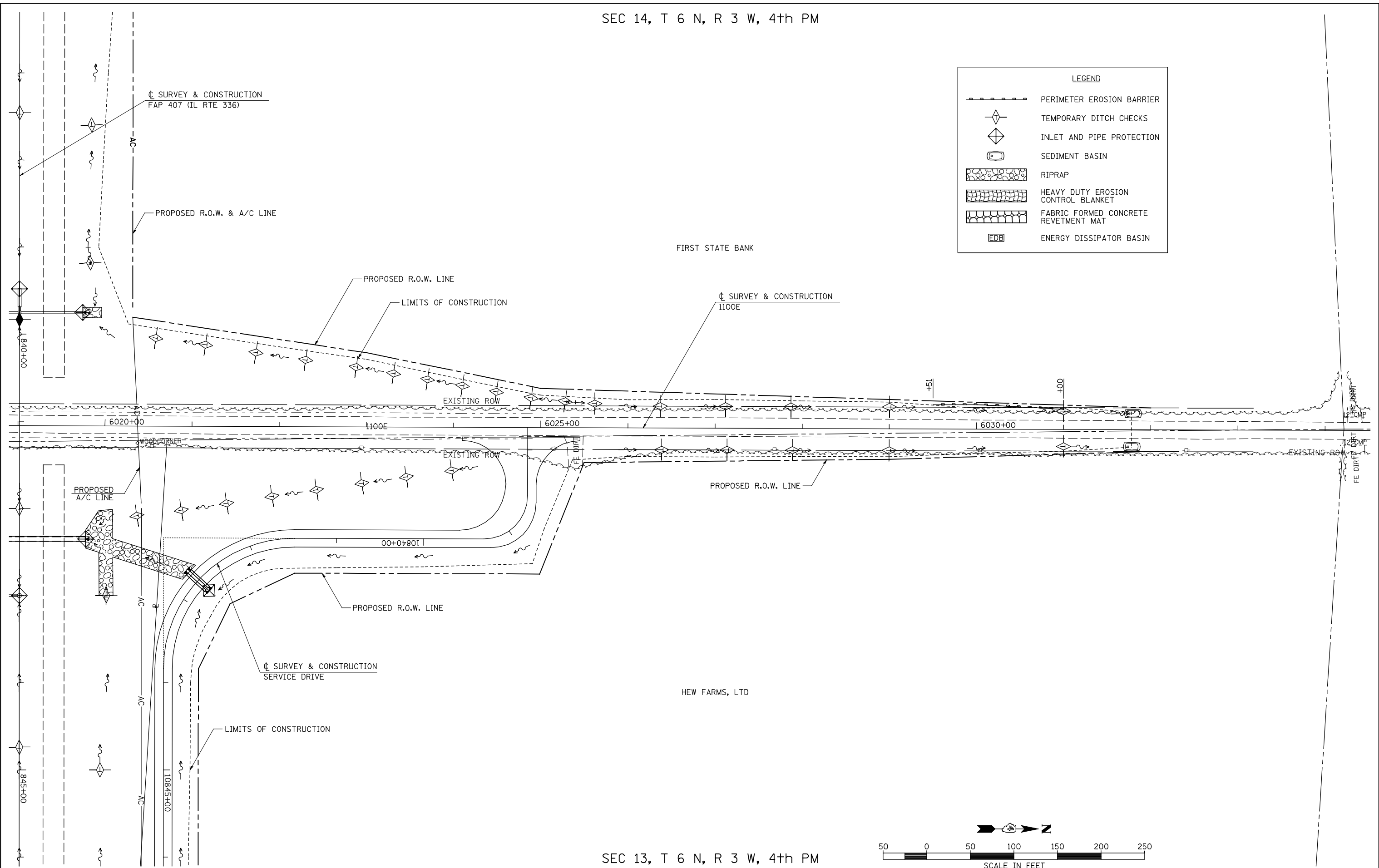
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 407 (IL RTE 336)
EROSION CONTROL PLAN 1100E - STA. 6004+00 TO STA. 6019+00

SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. 6004+00 TO STA. 6019+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	203
			CONTRACT NO. 68A42	

ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
V:\Transportation\2891\Grading Plans\2891E24(1100E).dgn		DRAWN - JMO	REVISED -
PLOT SCALE = 100.00' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

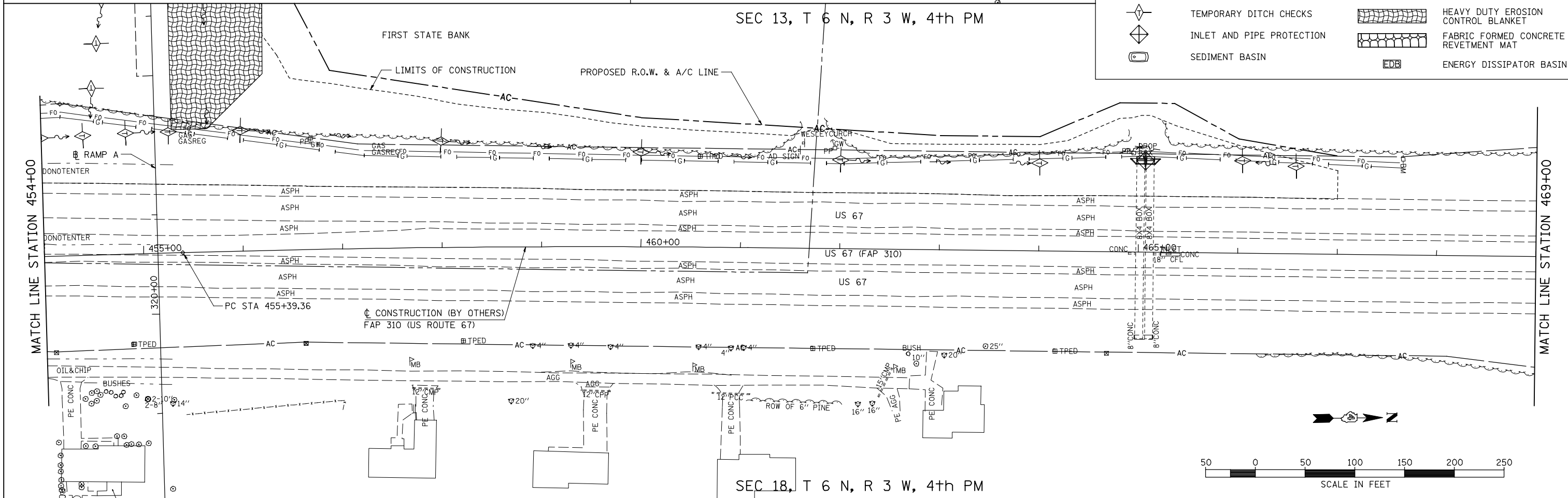
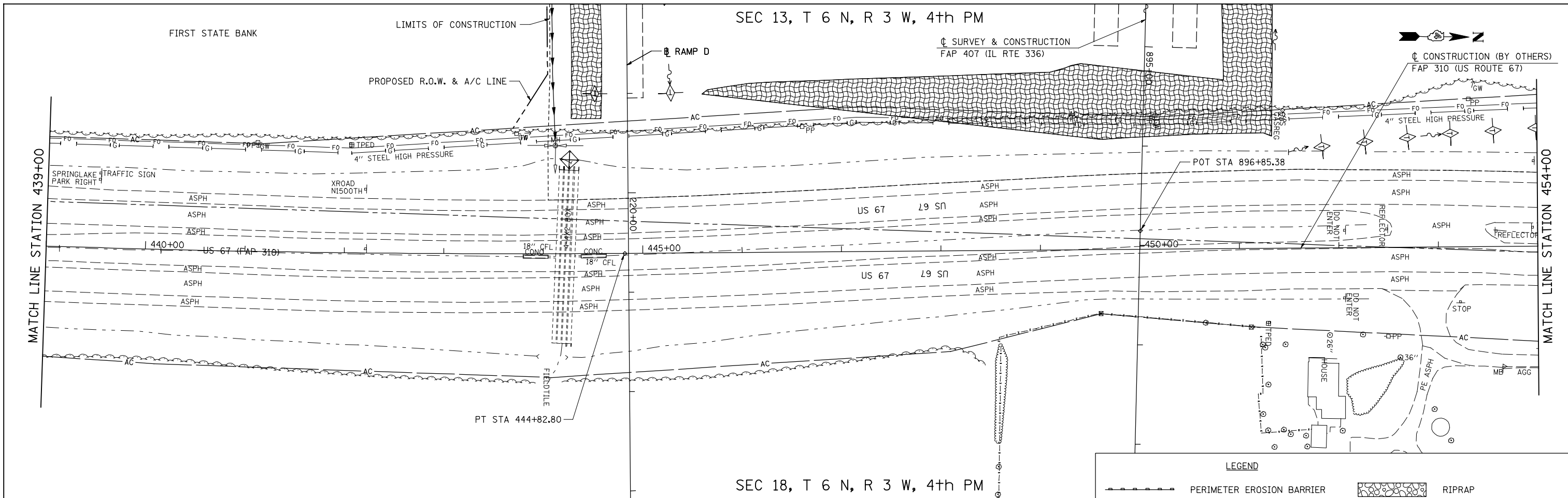
**FAP 407 (IL RTE 336)
EROSION CONTROL PLAN 1100E STA. 6019+00 TO STA. 6034+00**

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. 6019+00 TO STA. 6034+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	204
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

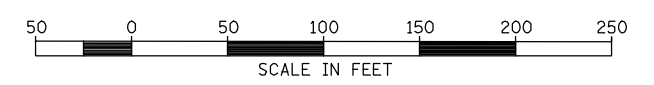
PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	APPROVED	
	DESIGNED	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	APPROVED	
	DESIGNED	
	FILE NAME	

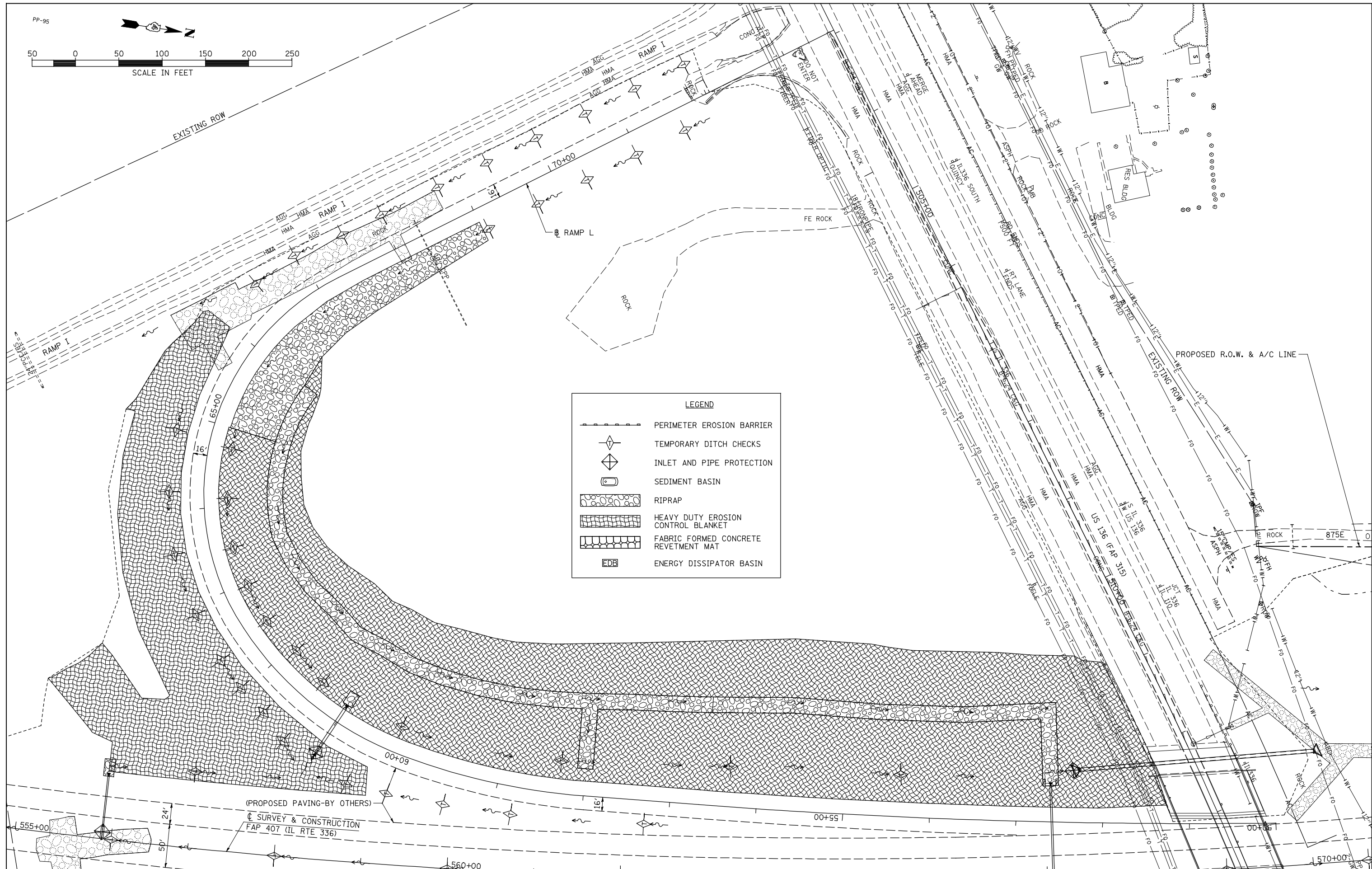
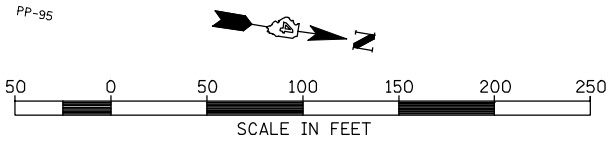


LEGEND

	PERIMETER EROSION BARRIER		RIPRAP
	TEMPORARY DITCH CHECKS		HEAVY DUTY EROSION CONTROL BLANKET
	INLET AND PIPE PROTECTION		FABRIC FORMED CONCRETE REVETMENT MAT
	SEDIMENT BASIN		ENERGY DISSIPATOR BASIN



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 407 (IL RTE 336) EROSION CONTROL PLAN US 67- STATION 439+00 TO STATION 469+00	F.A.P. RTE. 407	SECTION (55-31A)	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 205
vs:\transportation\2891\grading plans\2891E80US67.dgn	DRAWN - JMO	REVISED -	CONTRACT NO. 68A42			ILLINOIS FED. AID PROJECT				
PLOT SCALE = 100.00' / IN.	CHECKED - AWM	REVISED -								
PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -								



LEGEND

	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS
	INLET AND PIPE PROTECTION
	SEDIMENT BASIN
	RIPRAP
	HEAVY DUTY EROSION CONTROL BLANKET
	FABRIC FORMED CONCRETE REVETMENT MAT
	ENERGY DISSIPATOR BASIN

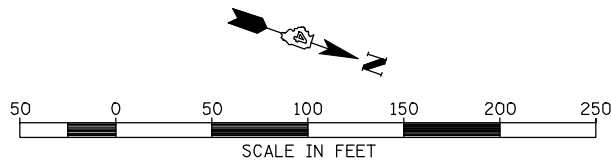
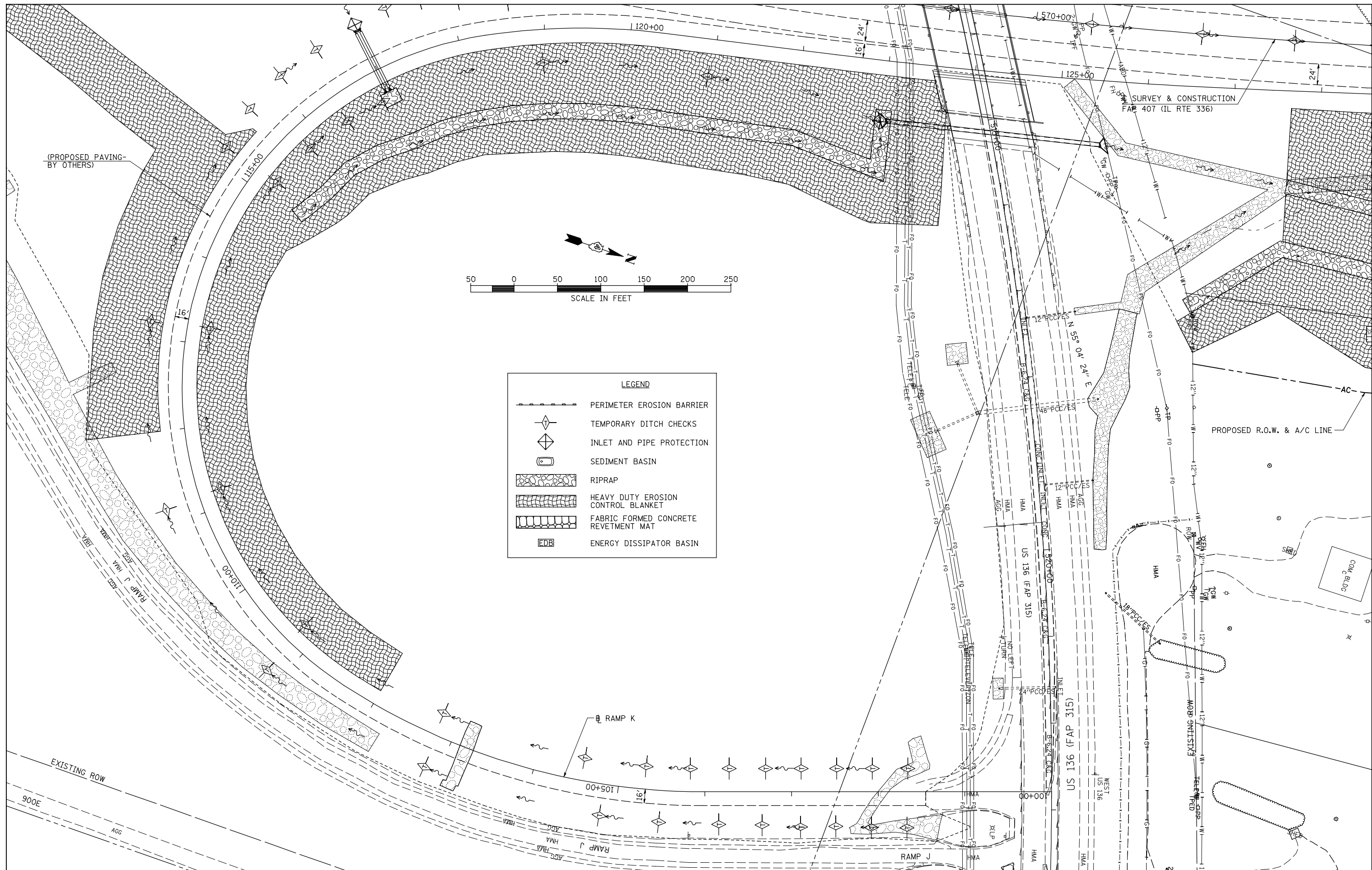
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W:\Transportation\2891\Grading Plans\2891E26-RampL.dgn		DRAWN - JMO	REVISED -
PLOT SCALE = 100.00' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
EROSION CONTROL PLAN - RAMP L**

SCALE: 1"=50'
SHEET NO. 1 OF 1 SHEETS
STA. 50+00.00 TO STA. 72+04.23

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	206
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				



LEGEND	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS
	INLET AND PIPE PROTECTION
	SEDIMENT BASIN
	RIPRAP
	HEAVY DUTY EROSION CONTROL BLANKET
	FABRIC FORMED CONCRETE REVETMENT MAT
	ENERGY DISSIPATOR BASIN

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

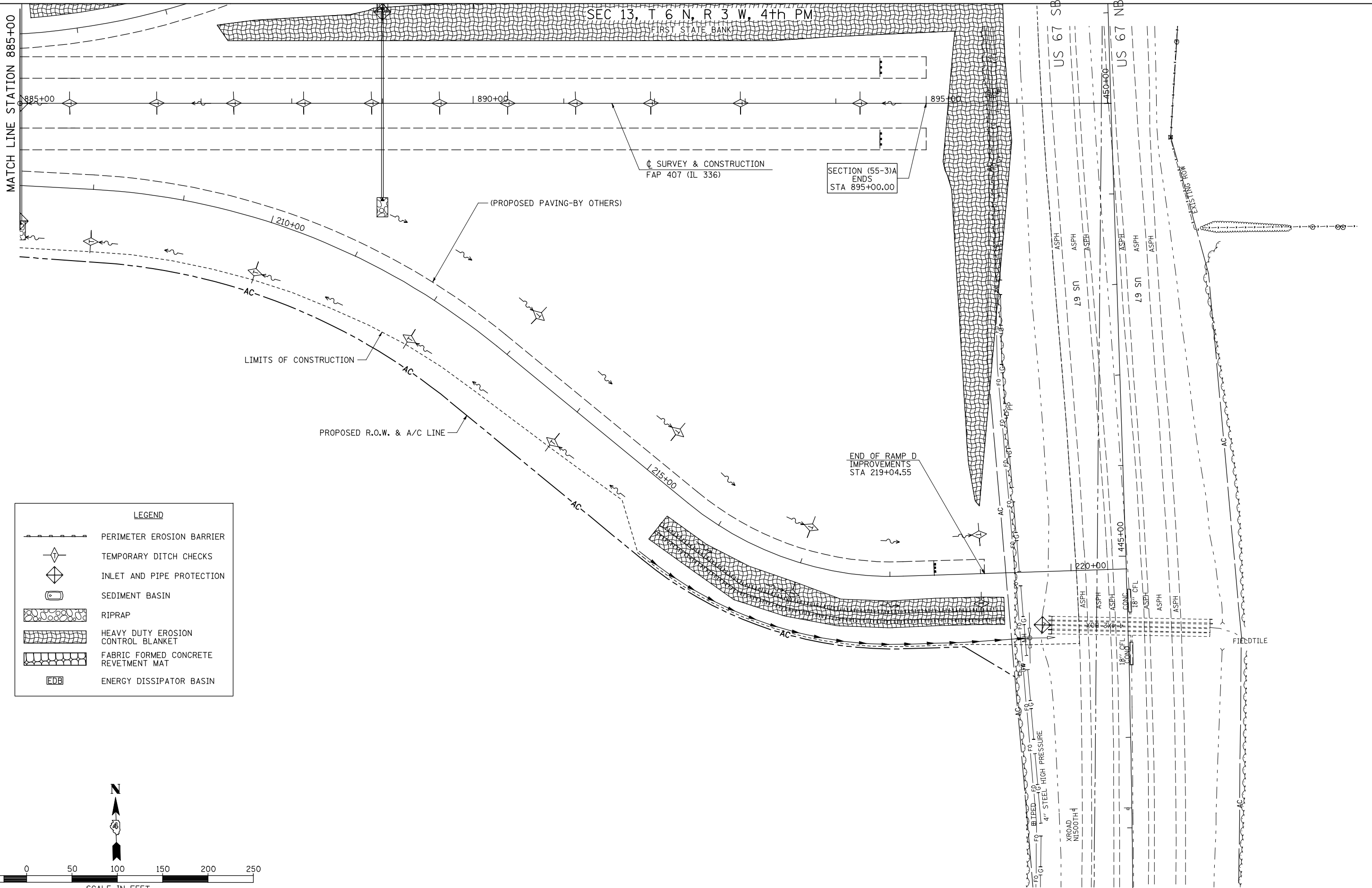
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 407 (IL RTE 336) EROSION CONTROL PLAN - RAMP K		
SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA. 101+45.00 TO STA. 122+38.18

F.A.P. RTE. 407	SECTION (55-31A)	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 207
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

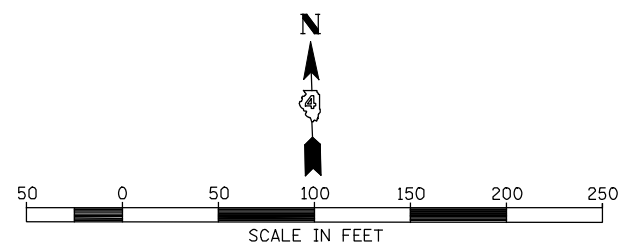
SEC 13, T 6 N, R 3 W, 4th PM

FIRST STATE BANK



LEGEND

	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS
	INLET AND PIPE PROTECTION
	SEDIMENT BASIN
	RIPRAP
	HEAVY DUTY EROSION CONTROL BLANKET
	FABRIC FORMED CONCRETE REVETMENT MAT
	ENERGY DISSIPATOR BASIN



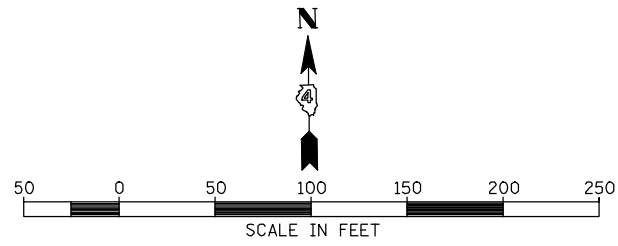
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PLOT SCALE = 100.00' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

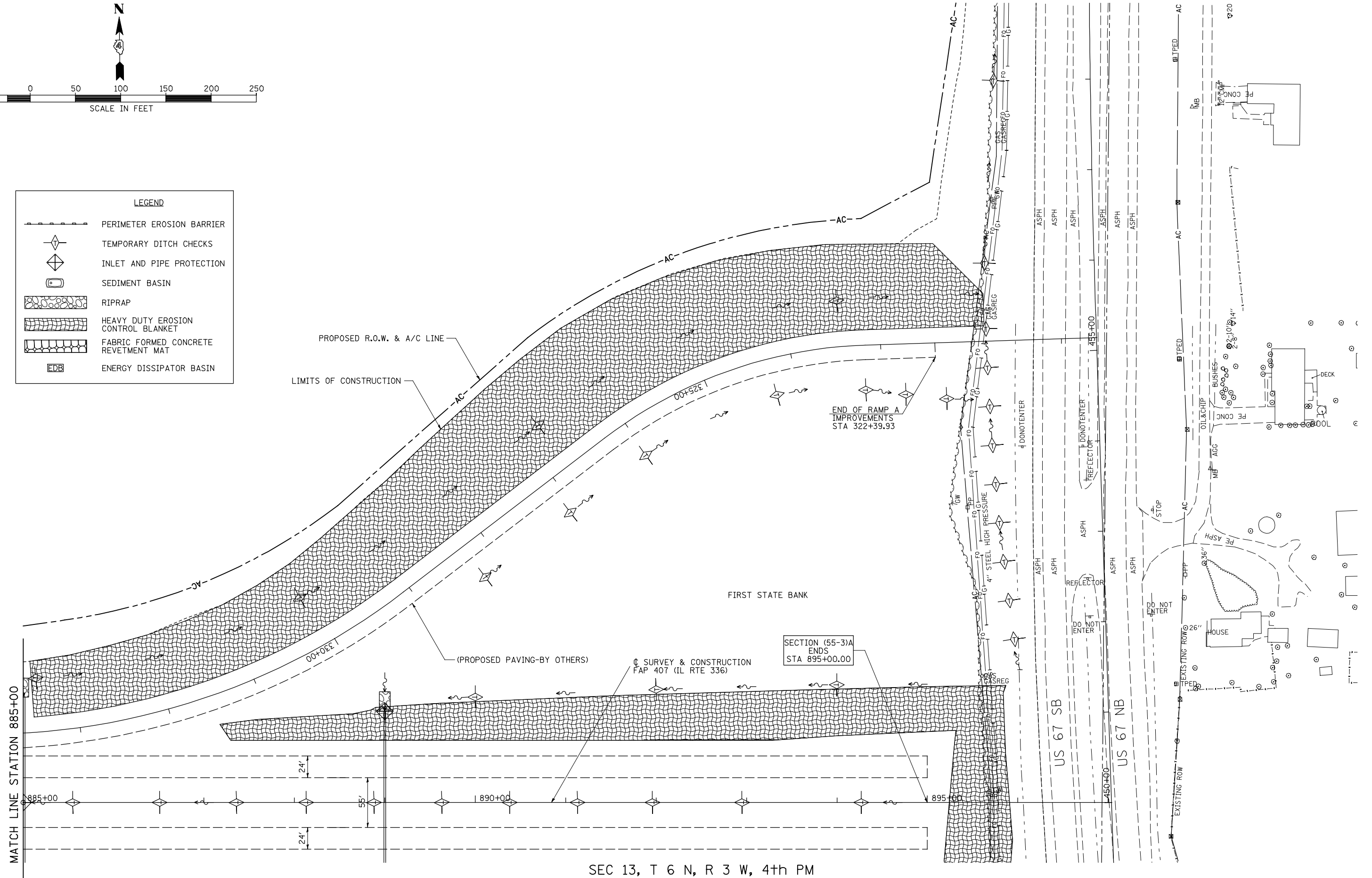
**FAP 407 (IL RTE 336)
EROSION CONTROL PLAN - RAMP D**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	208
CONTRACT NO. 68A42				
ILLINOIS FED. AID PROJECT				



LEGEND	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS
	INLET AND PIPE PROTECTION
	SEDIMENT BASIN
	RIPRAP
	HEAVY DUTY EROSION CONTROL BLANKET
	FABRIC FORMED CONCRETE REVEMENT MAT
	ENERGY DISSIPATOR BASIN



SEC 13, T 6 N, R 3 W, 4th PM

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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PLOT SCALE = 100.00' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





FAP 407 (IL RTE 336)	
EROSION CONTROL PLAN - RAMP A	
SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	209
CONTRACT NO. 68A42				
ILLINOIS FED. AID PROJECT				

SEC 9, T 5 N, R 3 W, 4th PM

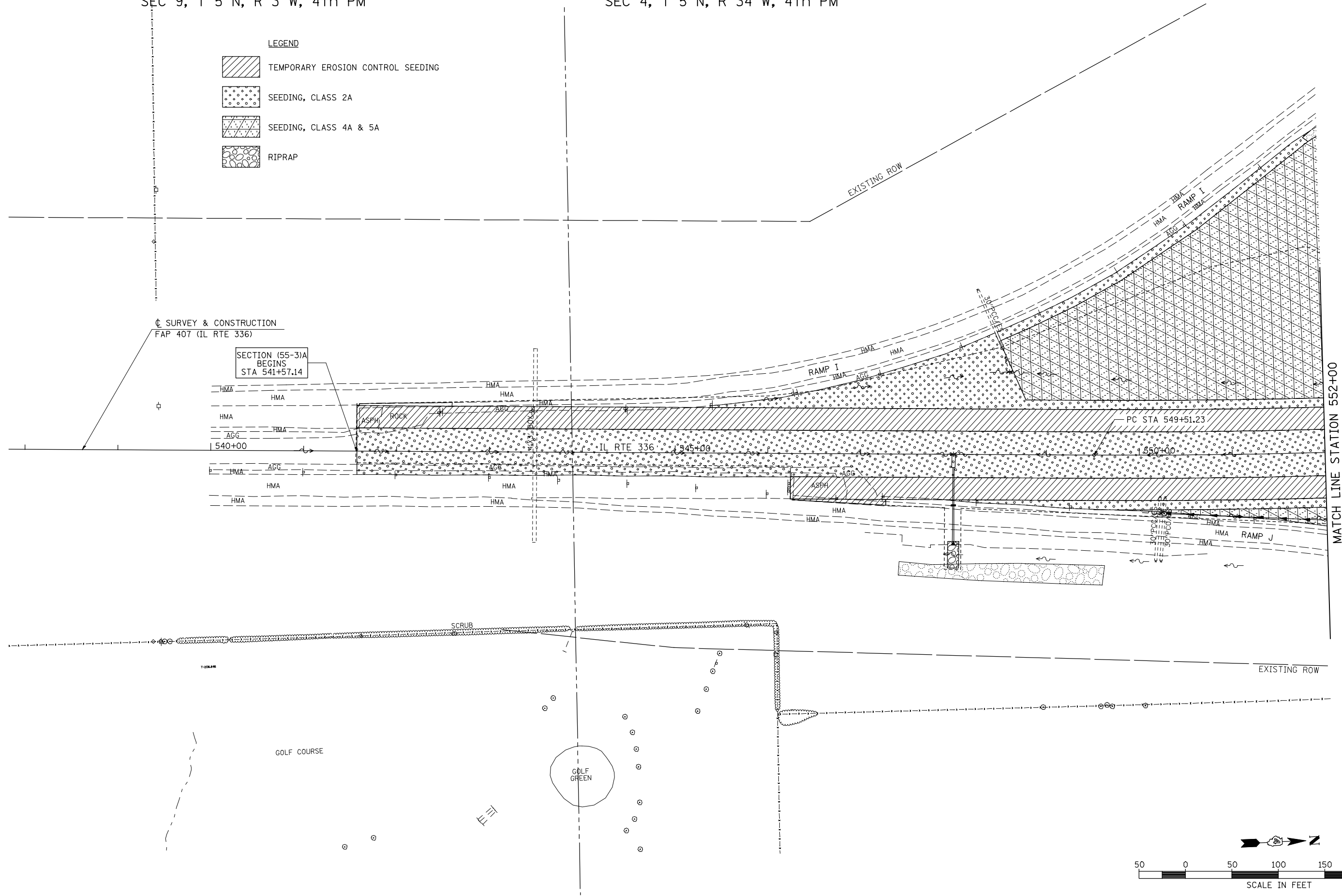
SEC 4, T 5 N, R 34 W, 4th PM

LEGEND

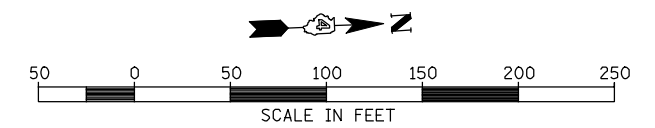
	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP

↑ SURVEY & CONSTRUCTION
FAP 407 (IL RTE 336)

SECTION (55-3)A
BEGINS
STA 541+57.14

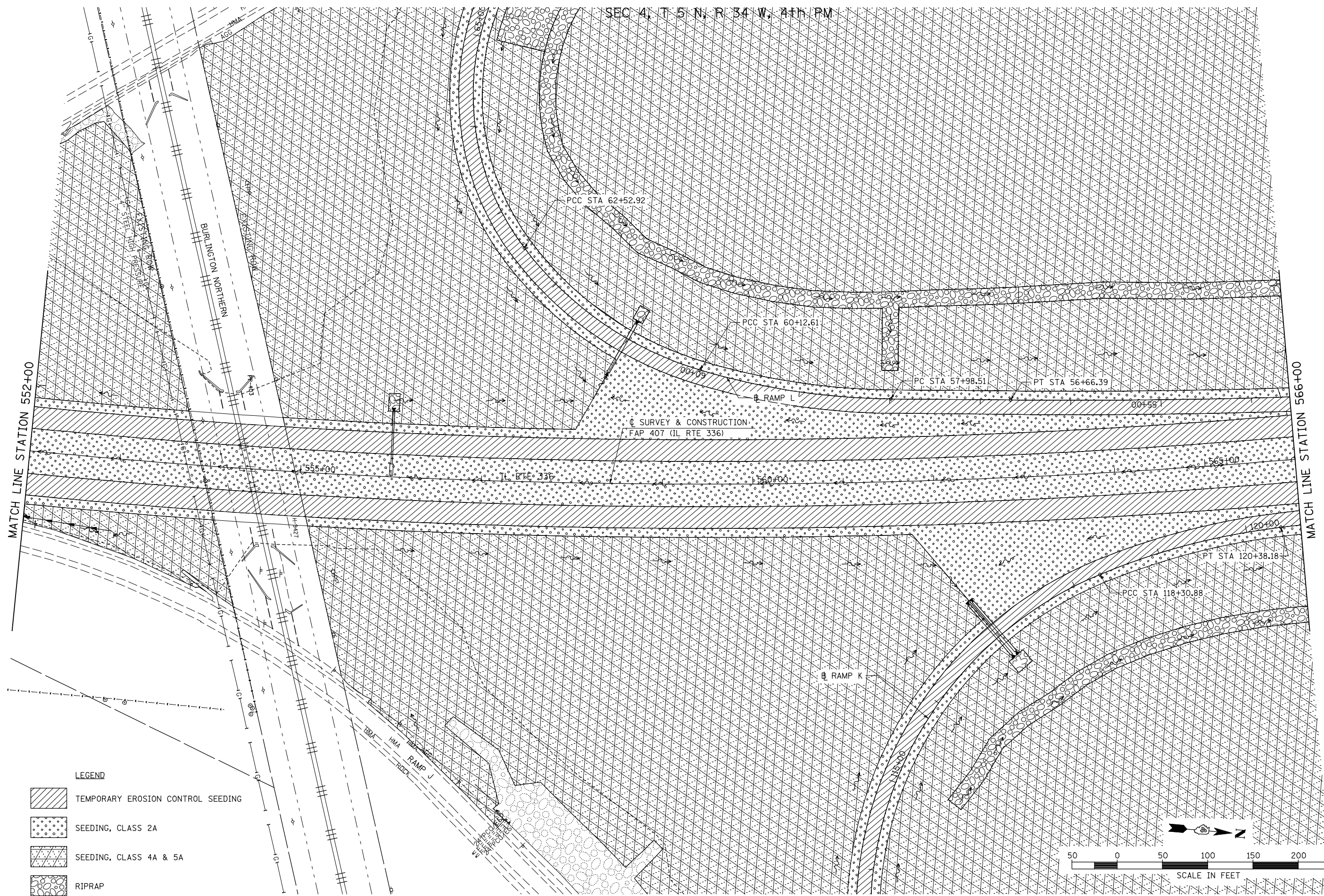


MATCH LINE STATION 552+00







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PLOT SCALE = 100.00' / IN.	CHECKED - AWM	DATE - 12-12-12	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 21 SHEETS	STA. 538+00	TO STA. 552+00	CONTRACT NO. 68A42			
PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -			ILLINOIS FED. AID PROJECT							

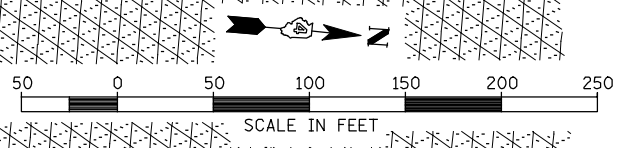
SEC 4, T 5 N, R 34 W, 4TH PM



MATCH LINE STATION 552+00

MATCH LINE STATION 566+00

- LEGEND**
-  TEMPORARY EROSION CONTROL SEEDING
 -  SEEDING, CLASS 2A
 -  SEEDING, CLASS 4A & 5A
 -  RIPRAP



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
v:\transportation\2891\grading plans\2891L02.dgn		DRAWN - JMO	REVISED -
PLOT SCALE = 1/8" = 1' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 552+00 TO STATION 566+00**

SCALE: 1"=50' SHEET NO. 2 OF 21 SHEETS STA. 552+00 TO STA. 566+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	211
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SEC 4, T 5 N, R 34 W, 4th PM

☐ SURVEY & CONSTRUCTION
FAP 315 (US RTE 136)

PC STA 511+09.06

PROPOSED R.O.W. & A/C LINE

PROPOSED TEMPORARY EASEMENT LINE

PROPOSED R.O.W. & A/C LINE

LIMITS OF CONSTRUCTION

MATCH LINE STATION 566+00

MATCH LINE STATION 580+00

☐ SURVEY & CONSTRUCTION
FAP 407 (IL RTE 336)

PC STA 50+00.00

PT STA 573+85.18

PC STA 578+67.56





PC STA 122+38.18

POT STA 131+93.42

RAMP K

PT STA 127+43.69

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP

PROPOSED R.O.W. & A/C LINE

LIMITS OF CONSTRUCTION

50 0 50 100 150 200 250

SCALE IN FEET

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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PLOT SCALE = 1/8" = 1' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 566+00 TO STATION 580+00





SCALE: 1"=50' SHEET NO. 3 OF 21 SHEETS STA. 566+00 TO STA. 580+00

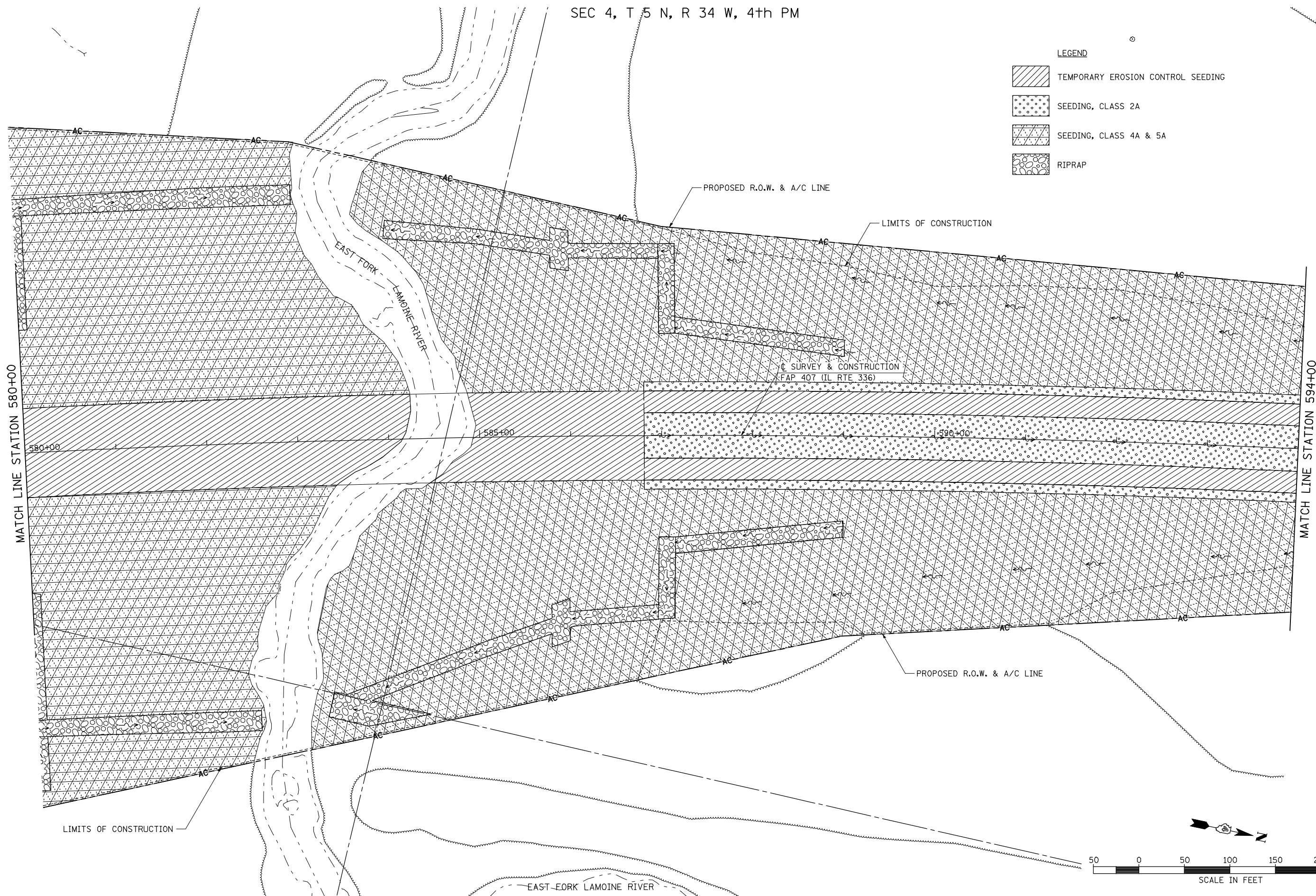
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	212
			CONTRACT NO. 68A42	

ILLINOIS FED. AID PROJECT

SEC 4, T 5 N, R 34 W, 4th PM

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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	PLOT SCALE = 100.00' / IN.	CHECKED - AWM	REVISED -
	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

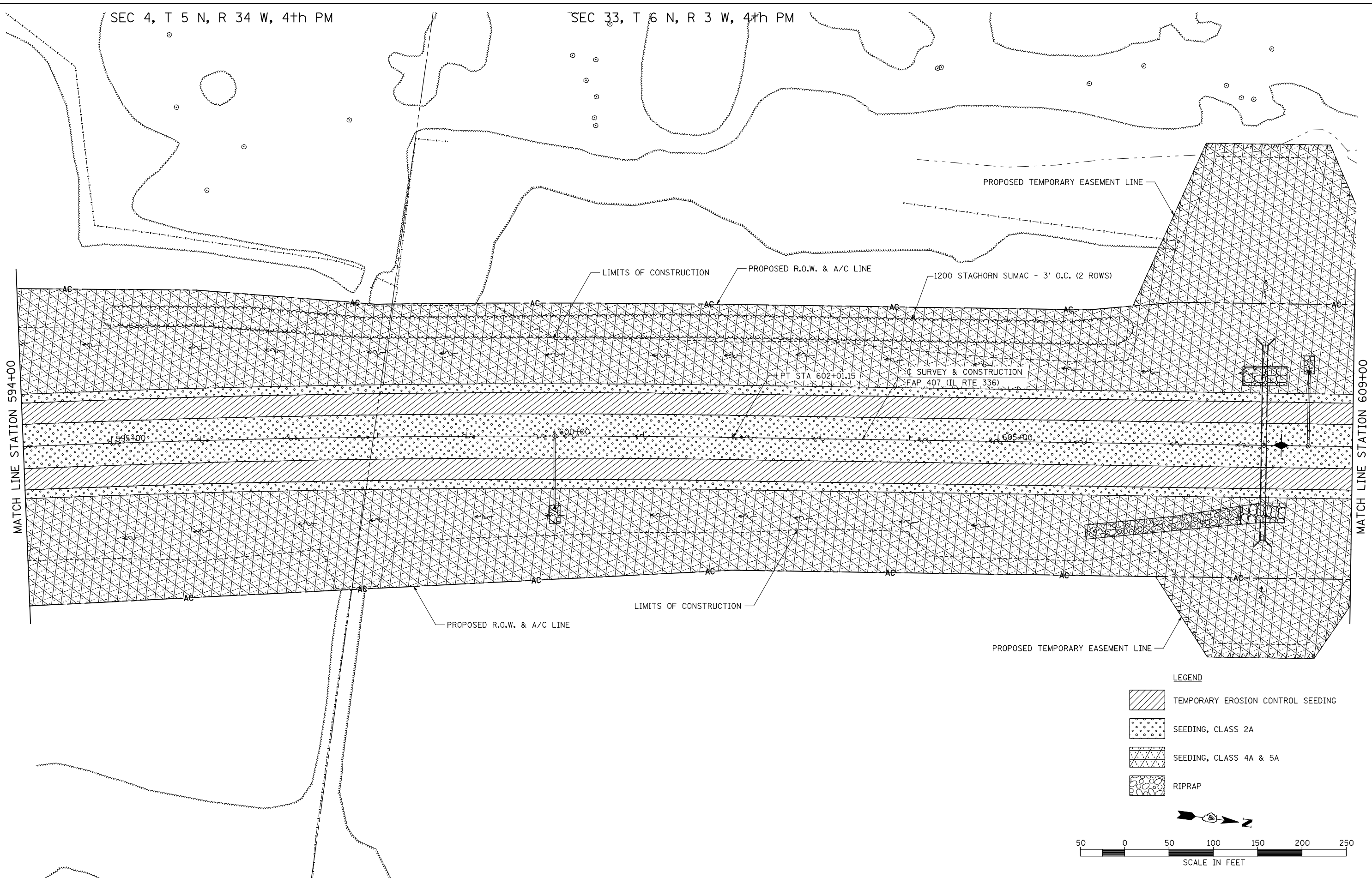
**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 580+00 TO STATION 594+00**

SCALE: 1"=50' SHEET NO. 4 OF 21 SHEETS STA. 580+00 TO STA. 594+00





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	213
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

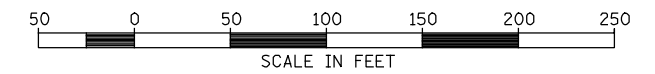
SEC 4, T 5 N, R 34 W, 4th PM

SEC 33, T 6 N, R 3 W, 4th PM



LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP



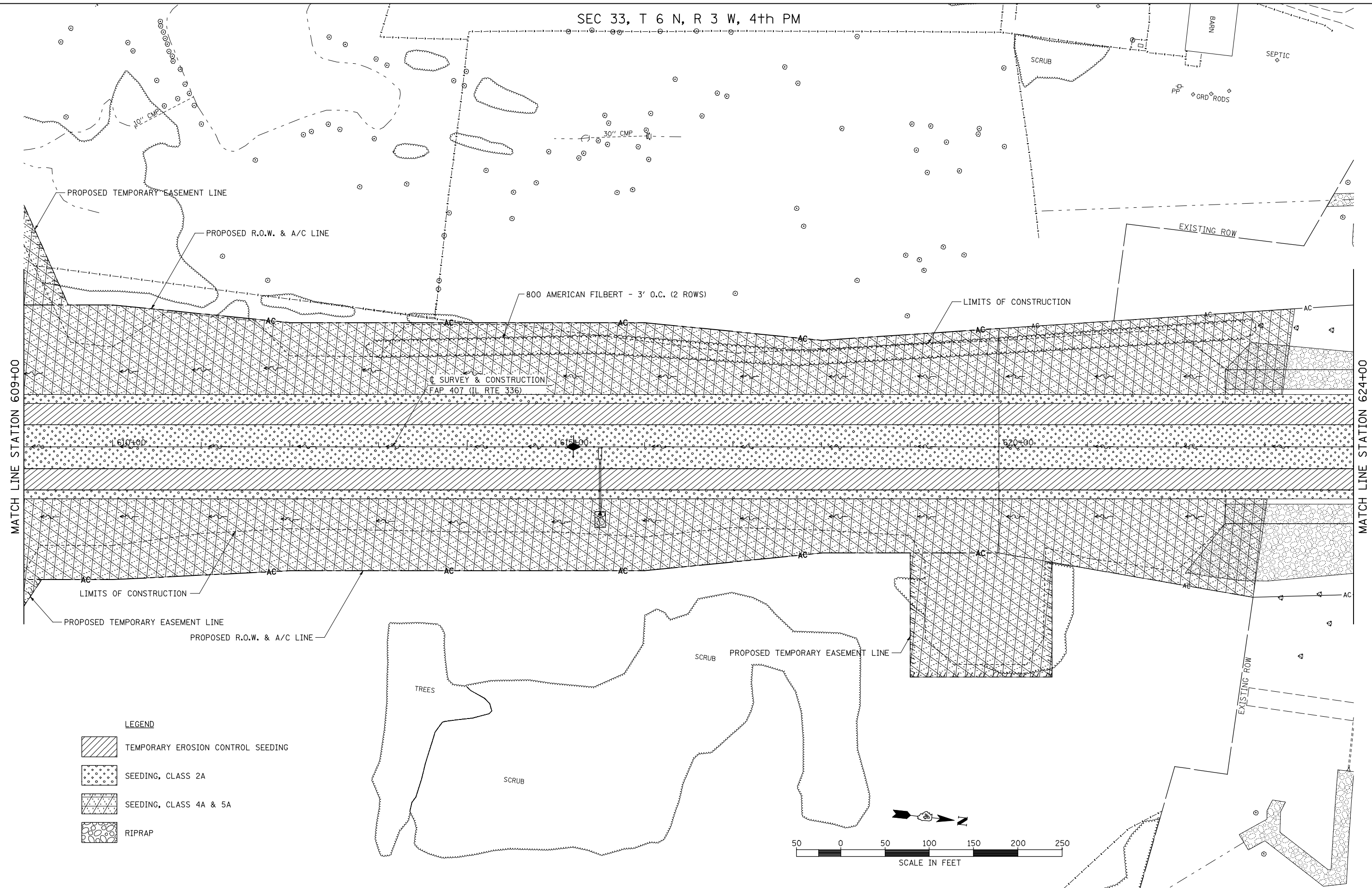
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		CHECKED - AWM	REVISED -
		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 594+00 TO STATION 609+00
SCALE: 1"=50' SHEET NO. 5 OF 21 SHEETS STA. 594+00 TO STA. 609+00

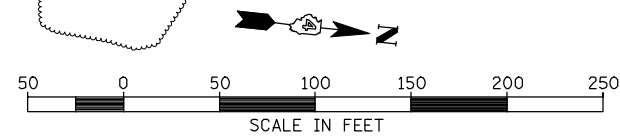
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A		671	214
CONTRACT NO. 68A42			ILLINOIS FED. AID PROJECT	

SEC 33, T 6 N, R 3 W, 4th PM



LEGEND

	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP



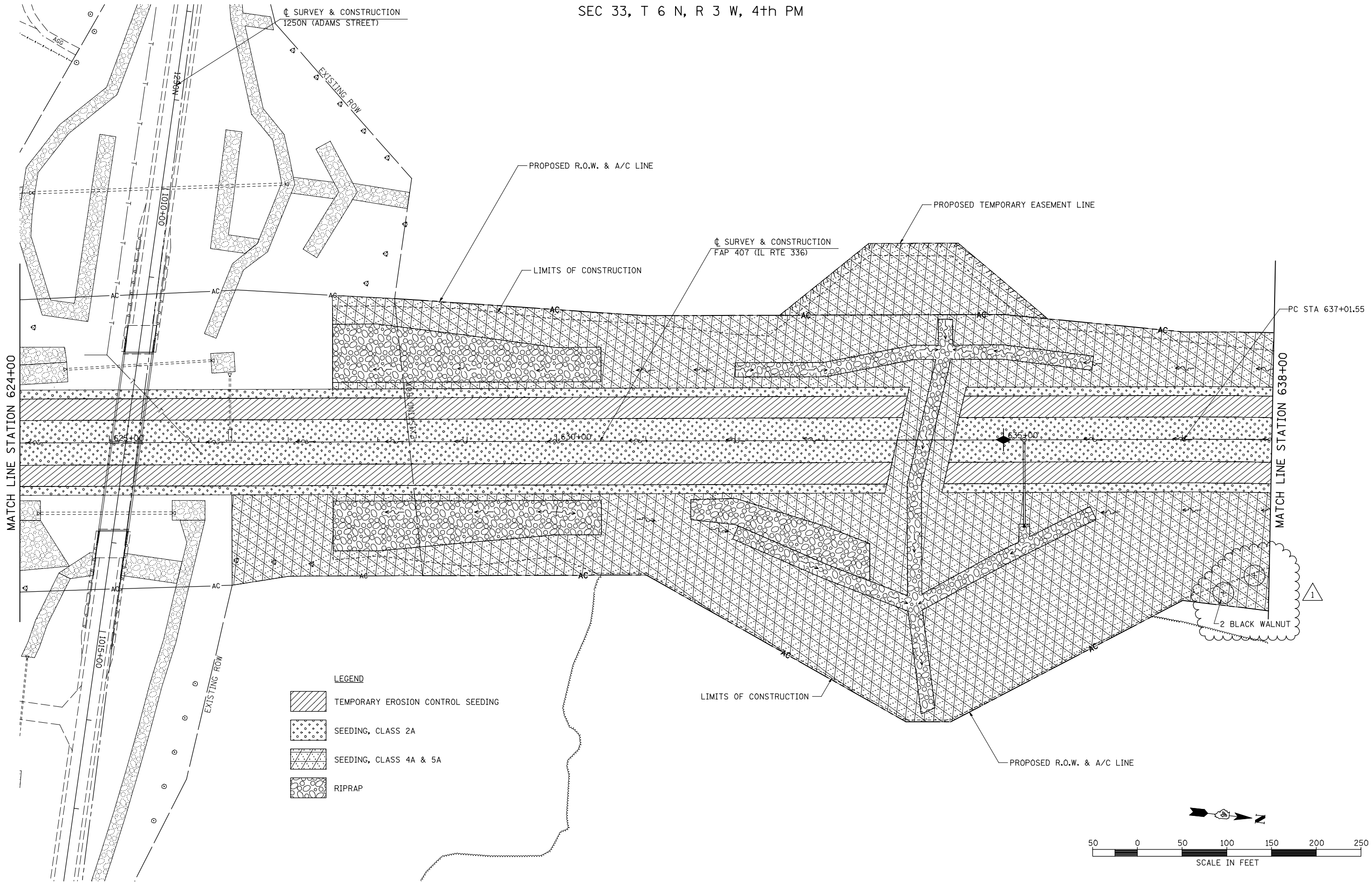
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PLOT SCALE = 1/8" = 1' / IN.	CHECKED - AWM	DRAWN - JMO	REVISED -
PLOT DATE = 12/12/2012	DATE - 12-12-12		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 609+00 TO STATION 624+00**

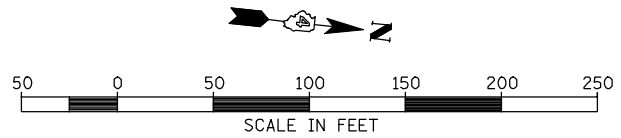
SCALE: 1"=50' SHEET NO. 6 OF 21 SHEETS STA. 609+00 TO STA. 624+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A		671	215
CONTRACT NO. 68A42			ILLINOIS FED. AID PROJECT	



LEGEND

	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED - 02/07/2013
v:\transportation\2891\grading plans\2891\07.dgn		DRAWN - JMO	REVISED -
PLOT SCALE = 1/8" = 1' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 2/7/2013		DATE - 12-12-12	REVISED -

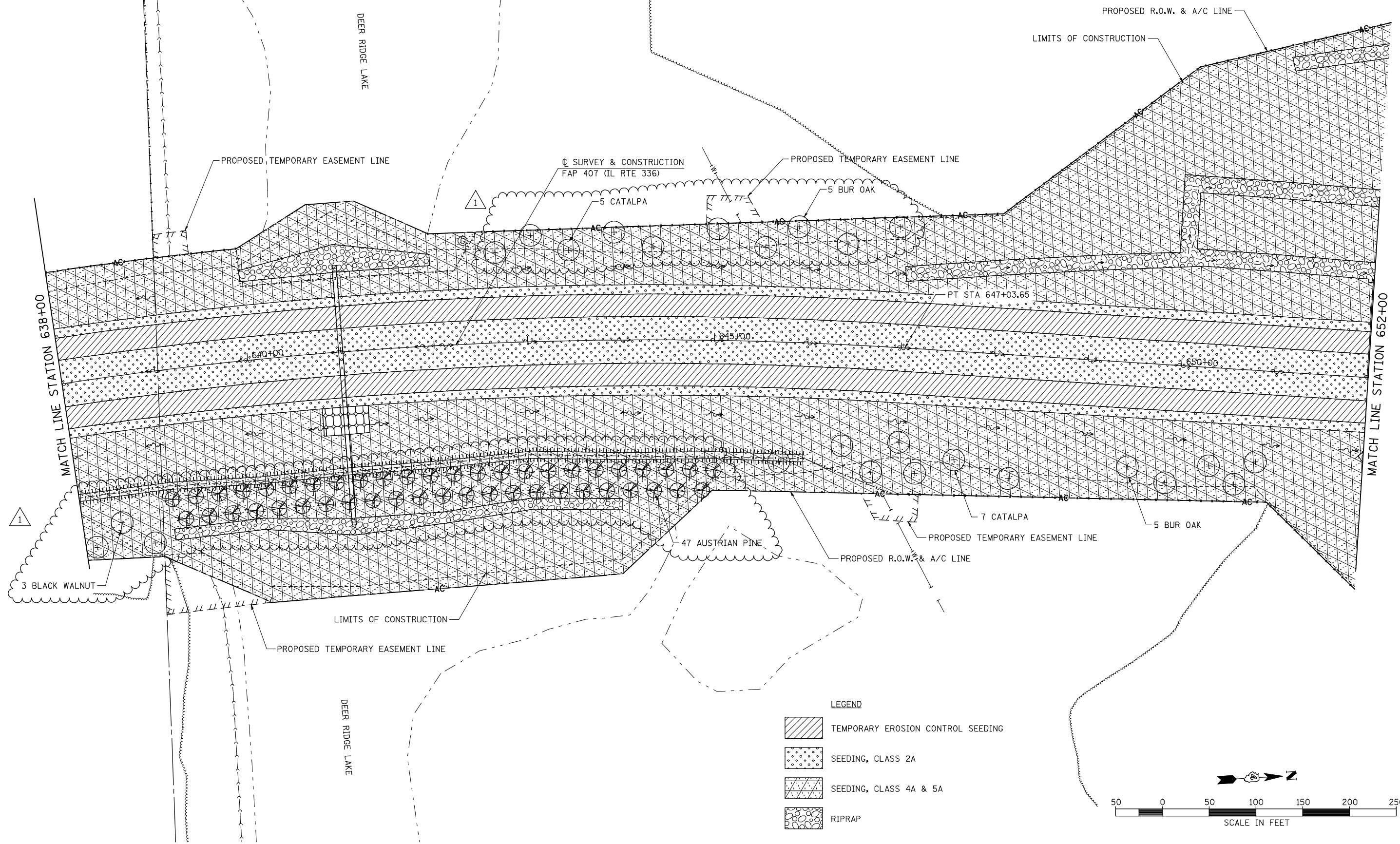
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 624+00 TO STATION 638+00**

SCALE: 1"=50' SHEET NO. 7 OF 21 SHEETS STA. 624+00 TO STA. 638+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	216
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SEC 33, T 6 N, R 3 W, 4th PM



- LEGEND**
-  TEMPORARY EROSION CONTROL SEEDING
 -  SEEDING, CLASS 2A
 -  SEEDING, CLASS 4A & 5A
 -  RIPRAP

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED - 02/07/2013
v:\transportation\2891\grading plans\2891\08.dgn		DRAWN - JMO	REVISED -
PLOT SCALE = 1/8" = 1' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 2/7/2013		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 638+00 TO STATION 652+00**





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	217
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET NO. 8 OF 21 SHEETS STA. 638+00 TO STA. 652+00

SEC 28, T 6 N, R 3 W, 4th PM

PROPOSED R.O.W. LINE

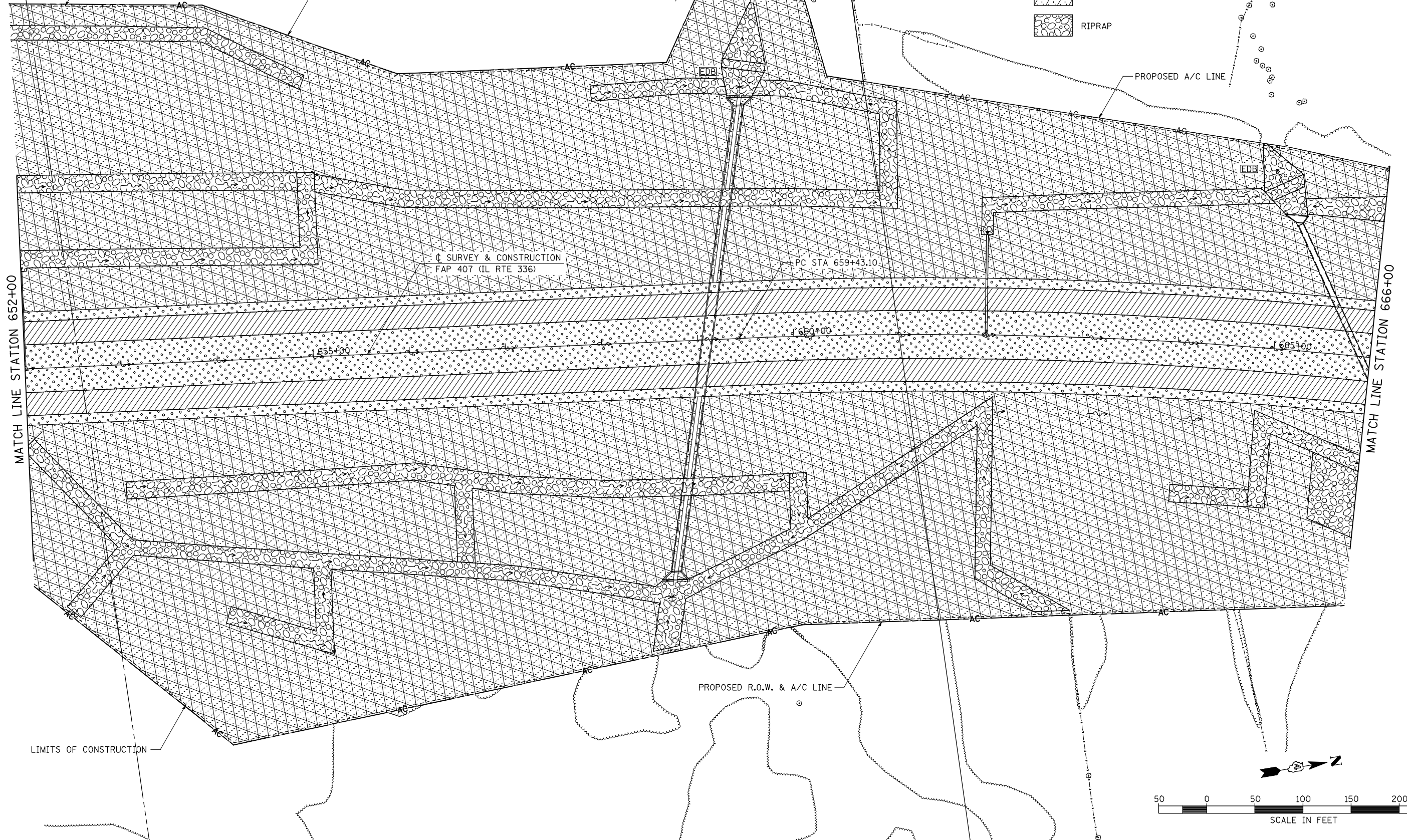
LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP

LIMITS OF CONSTRUCTION

PROPOSED R.O.W. & A/C LINE

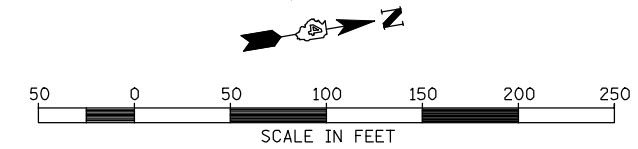
PROPOSED A/C LINE



SURVEY & CONSTRUCTION
FAP 407 (IL RTE 336)

PC STA 659+43.10

PROPOSED R.O.W. & A/C LINE



FILE NAME = v:\transportation\2891\grading plans\2891\09.dgn	USER NAME = jdeen	DESIGNED - JRB	REVISED -
PLOT SCALE = 1/8" = 1' / IN.	CHECKED - AWM	DRAWN - JMO	REVISED -
PLOT DATE = 12/12/2012	DATE - 12-12-12		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 652+00 TO STATION 666+00**





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	218
			CONTRACT NO. 68A42	

SCALE: 1"=50' SHEET NO. 9 OF 21 SHEETS STA. 652+00 TO STA. 666+00

ILLINOIS FED. AID PROJECT

SEC 28, T 6 N, R 3 W, 4th PM

☐ SURVEY &
CONSTRUCTION
1350N (CH 14)

- LEGEND**
-  TEMPORARY EROSION CONTROL SEEDING
 -  SEEDING, CLASS 2A
 -  SEEDING, CLASS 4A & 5A
 -  RIPRAP

PROPOSED A/C LINE

PROPOSED R.O.W. LINE

PROPOSED PERMANENT
EASEMENT LINE

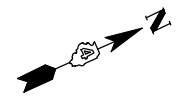
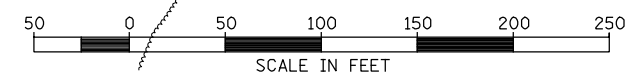
PROPOSED R.O.W. & A/C LINE

LIMITS OF CONSTRUCTION

☐ SURVEY & CONSTRUCTION
FAP 407 (IL RTE 336)

MATCH LINE STATION 666+00

MATCH LINE STATION 680+00



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
v:\transportation\2891\grading plans\2891\110.dgn		DRAWN - JMO	REVISED -
PLOT SCALE = 1/8" = 1' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 666+00 TO STATION 680+00**

SCALE: 1"=50' SHEET NO. 10 OF 21 SHEETS STA. 666+00 TO STA. 680+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	219
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

☐ SURVEY & CONSTRUCTION
1350N (CH 14)

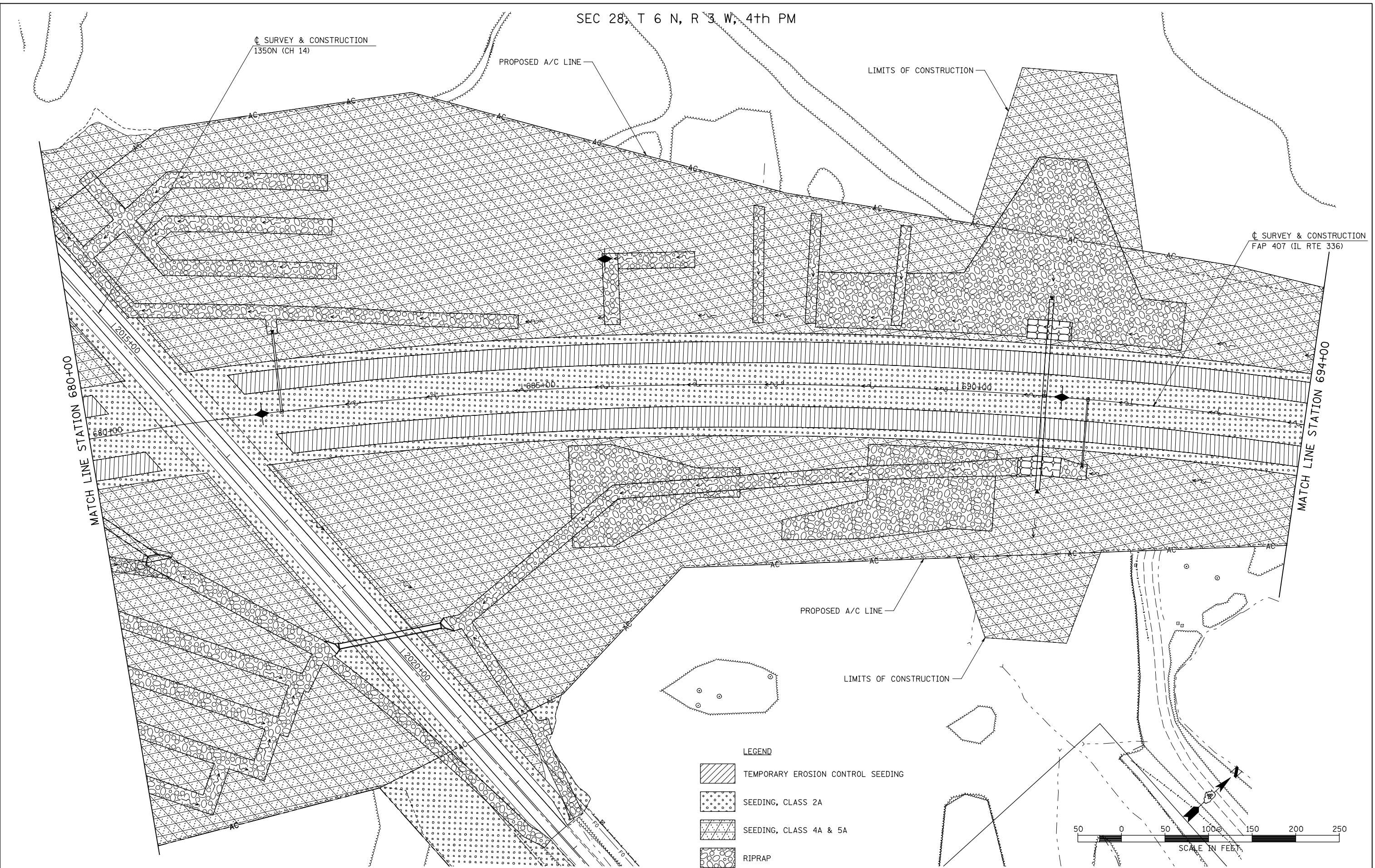
PROPOSED A/C LINE

LIMITS OF CONSTRUCTION





☐ SURVEY & CONSTRUCTION
FAP 407 (IL RTE 336)

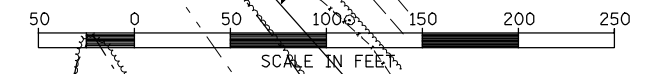
MATCH LINE STATION 680+00

MATCH LINE STATION 694+00



LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -





STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

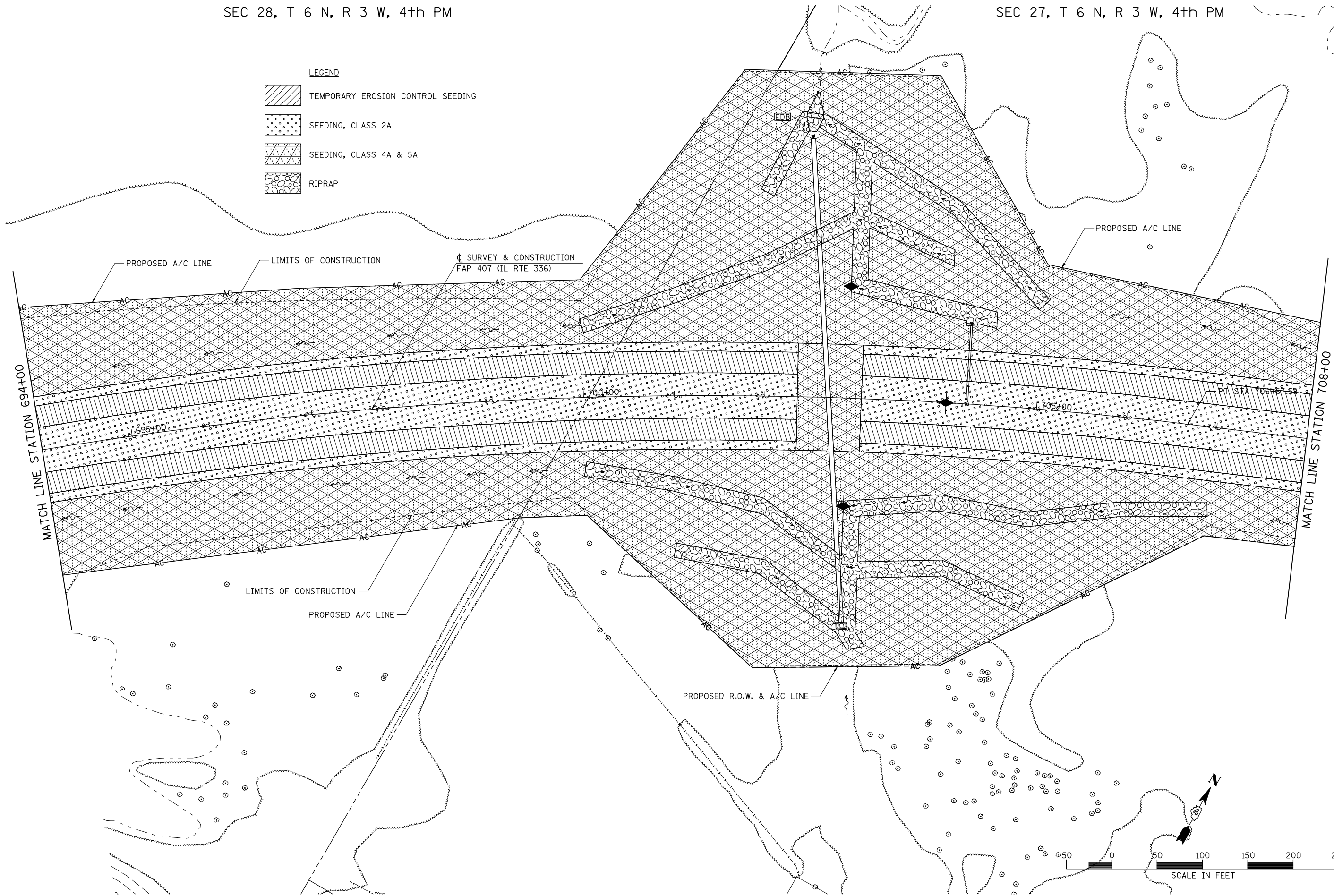
FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 680+00 TO STATION 694+00

SCALE: 1"=50' SHEET NO. 11 OF 21 SHEETS STA. 680+00 TO STA. 694+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	220
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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PLOT SCALE = 1/80.00' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

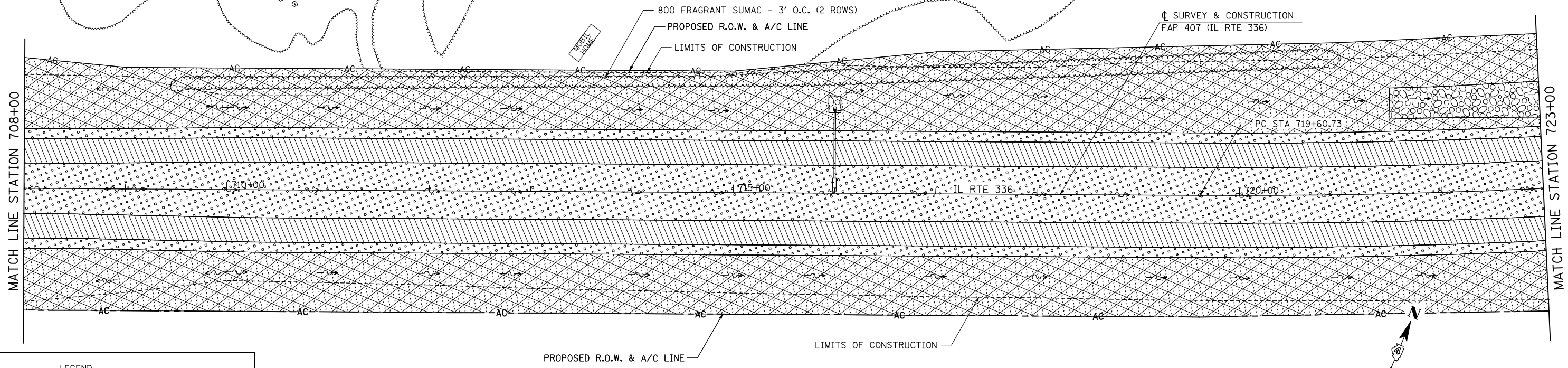
**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 694+00 TO STATION 708+00**

SCALE: 1"=50' SHEET NO. 12 OF 21 SHEETS STA. 694+00 TO STA. 708+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	221
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SEC 27, T 6 N, R 3 W, 4th PM

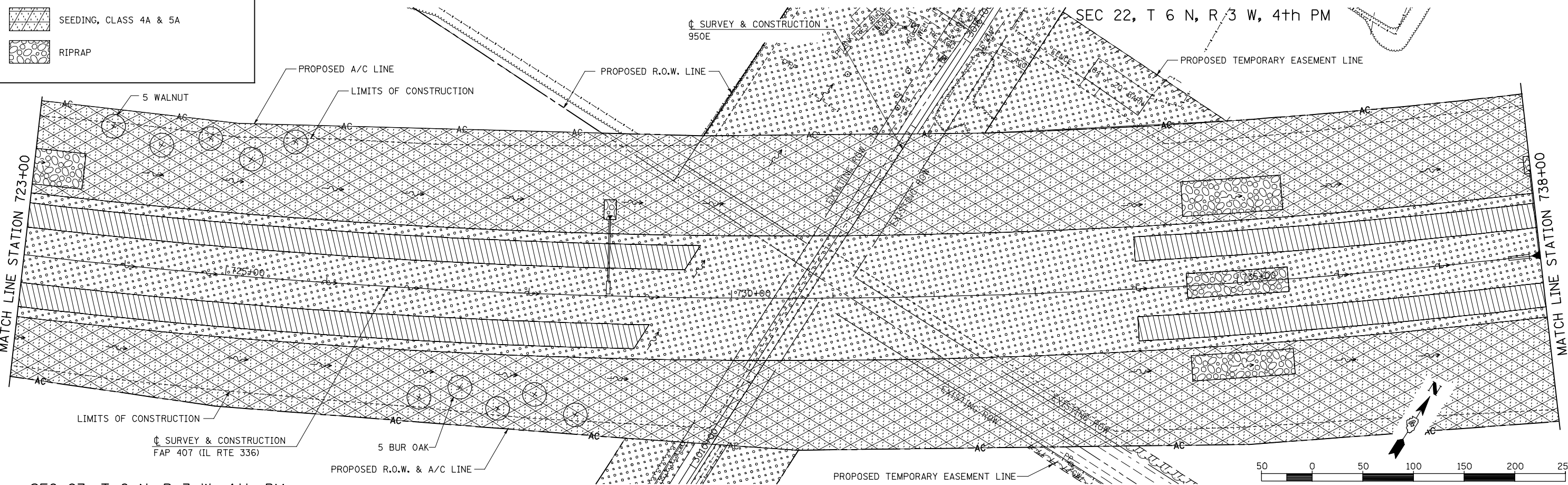
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NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	ALIGNED	
	FILED	
	CARD FILE NAME	



PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE	
	NOTATIS CHKD	

LEGEND

- TEMPORARY EROSION CONTROL SEEDING
- SEEDING, CLASS 2A
- SEEDING, CLASS 4A & 5A
- RIPRAP



SEC 27, T 6 N, R 3 W, 4th PM

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

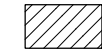
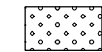
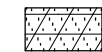

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 708+00 TO STATION 738+00**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	222
			CONTRACT NO. 68A42	

SCALE: 1"=50' SHEET NO. 13 OF 21 SHEETS STA. 708+00 TO STA. 738+00 ILLINOIS FED. AID PROJECT

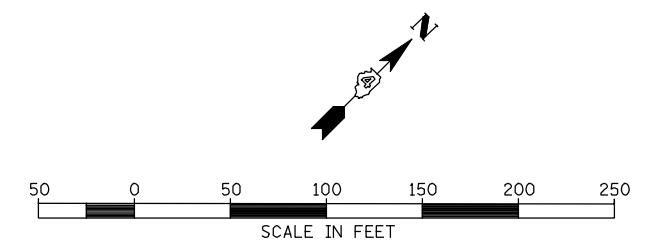
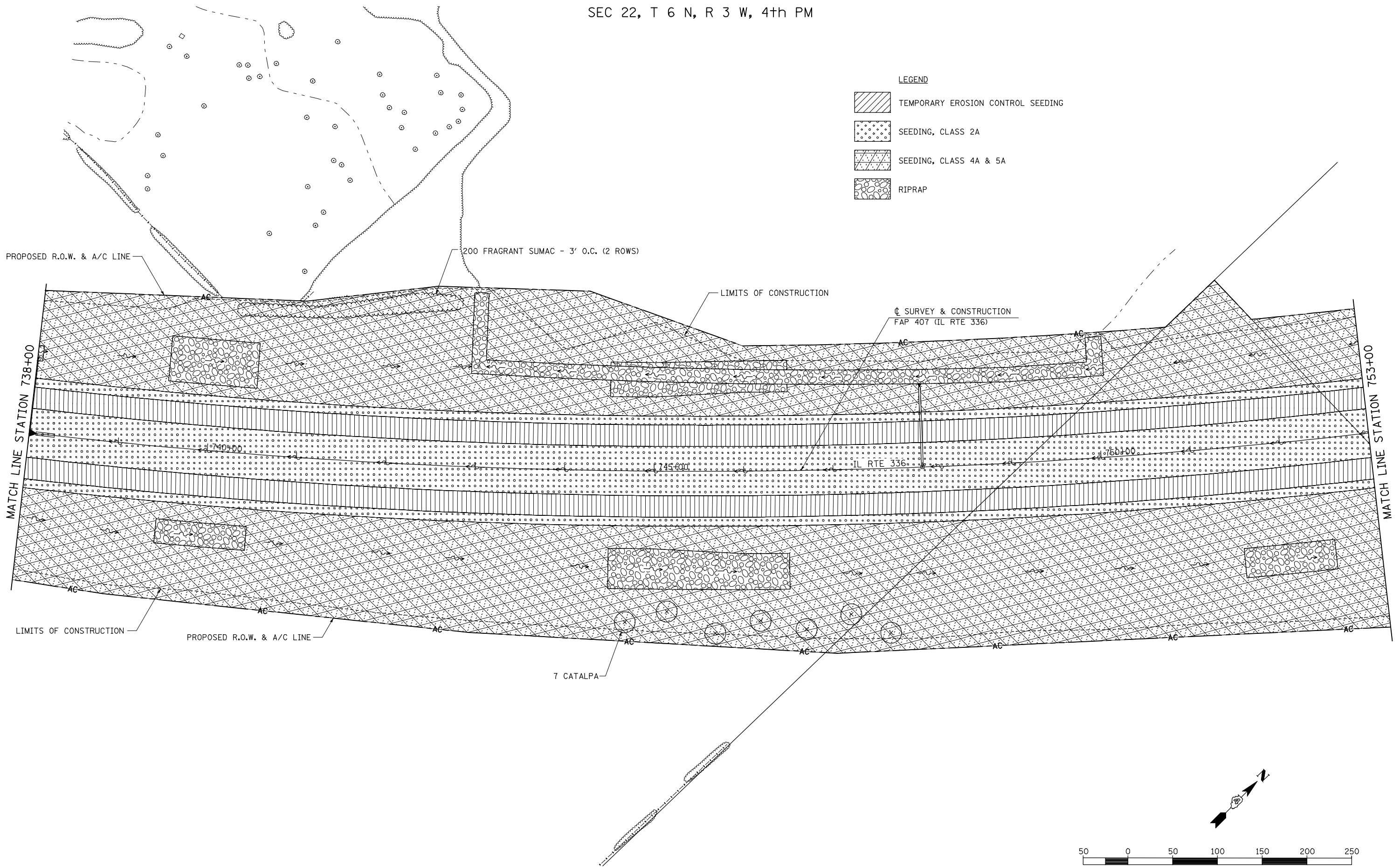
SEC 22, T 6 N, R 3 W, 4th PM

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNED	
	CHECKED	
	DATE	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE	
	NOTATION CHKD	



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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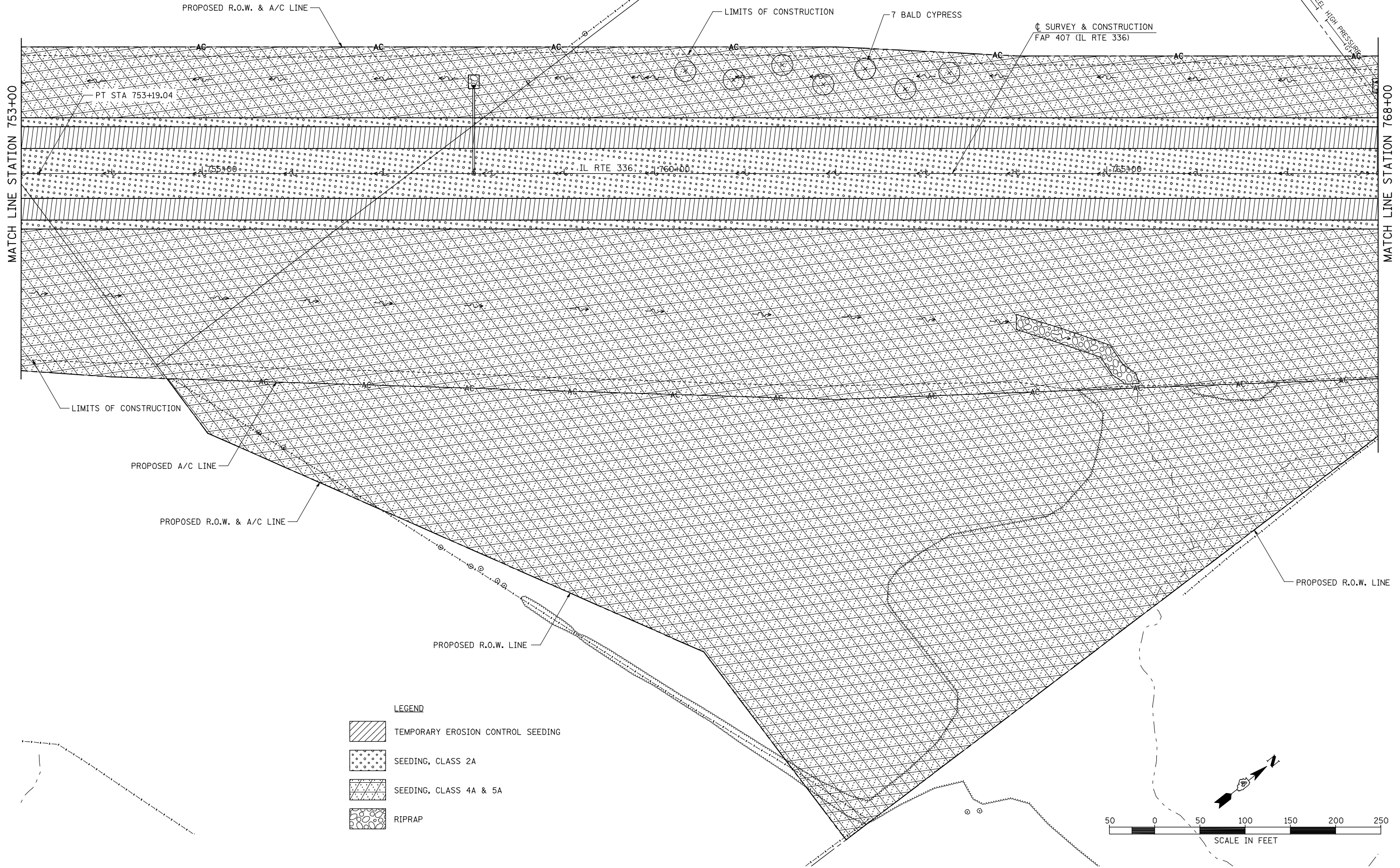
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STA 738+00 TO STA 753+00**

SCALE: 1"=50' SHEET NO. 14 OF 21 SHEETS STA. 738+00 TO STA. 753+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	223
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				





SEC 22, T 6 N, R 3 W, 4th PM

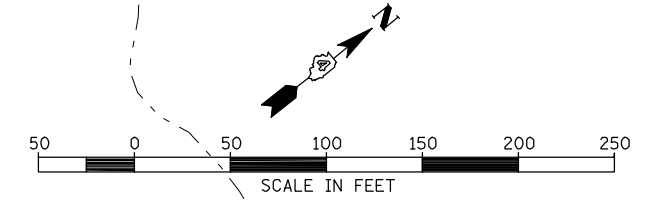


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	CARD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATION		

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
vs:\transportation\2891\grading plans\2891L14-B.dgn		DRAWN - JMO	REVISED -
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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STA 753+00 TO STA 768+00**





SCALE: 1"=50' SHEET NO. 15 OF 21 SHEETS STA. 753+00 TO STA. 768+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	224
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SEC 22, T 6 N, R 3 W, 4th PM

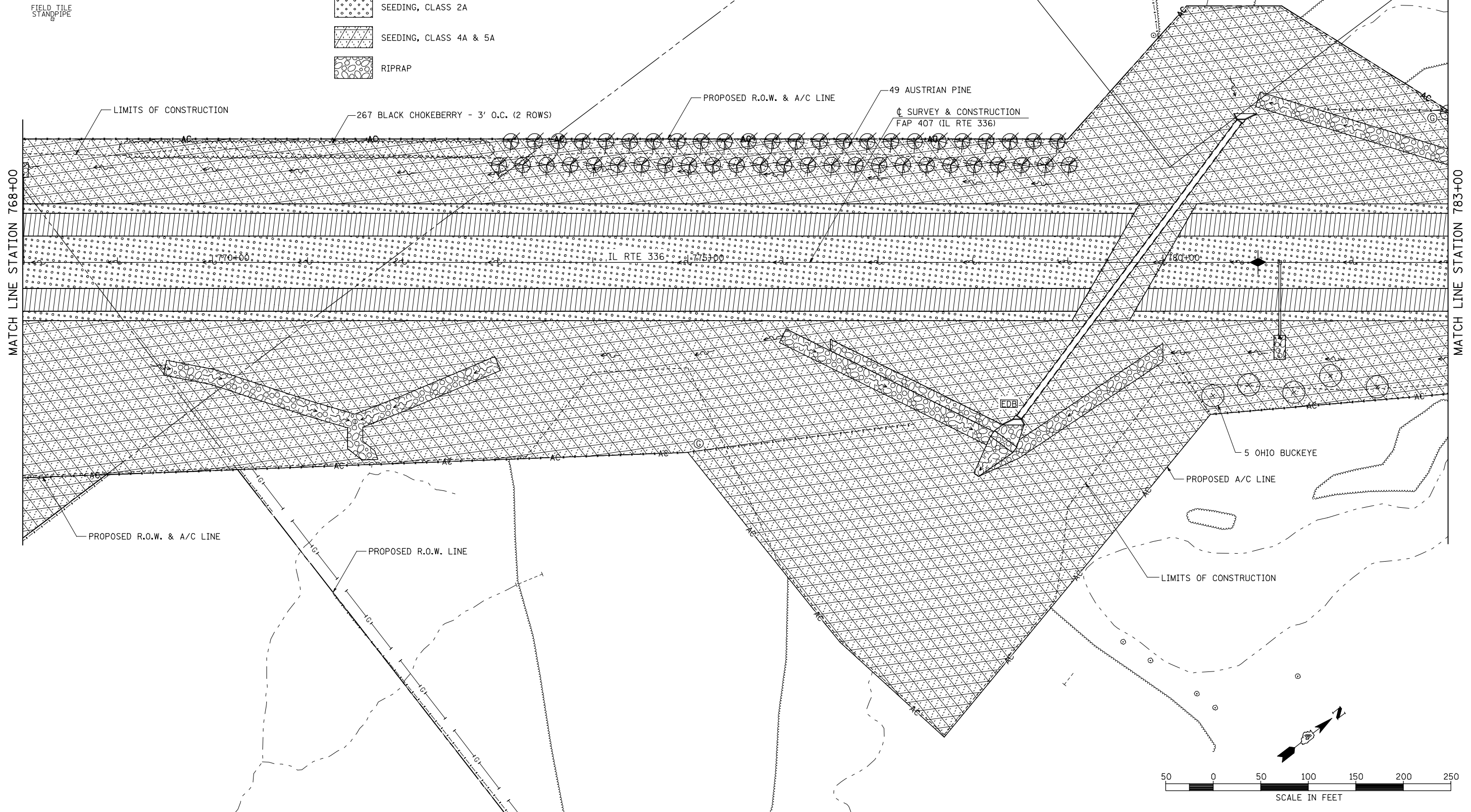
SEC 23, T 6 N, R 3 W, 4th PM

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	DATE	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 768+00 TO STATION 783+00**

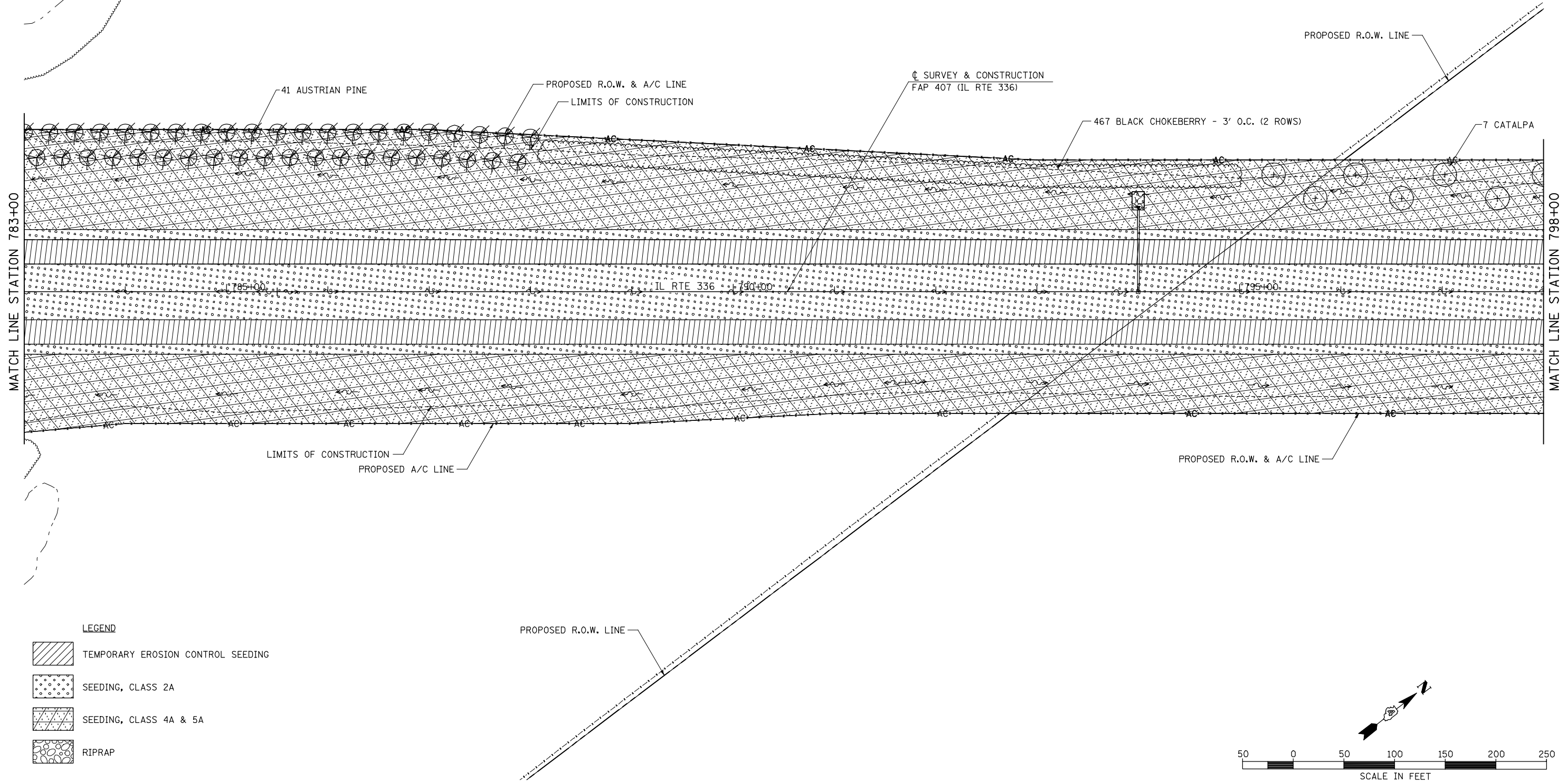
SCALE: 1"=50' SHEET NO. 16 OF 21 SHEETS STA. 768+00 TO STA. 783+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	225
			CONTRACT NO. 68A42	





ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	ALIGNED	
	FILED	
	CARD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	ALIGNED	
	FILED	
	NOT AT THIS OFFICE	
	NO.	



LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
vs:\transportation\2891\grading plans\2891L15-B.dgn		DRAWN - JMO	REVISED -
	PLOT SCALE = 1/8" = 1' / IN.	CHECKED - AWM	REVISED -
	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 783+00 TO STATION 798+00**

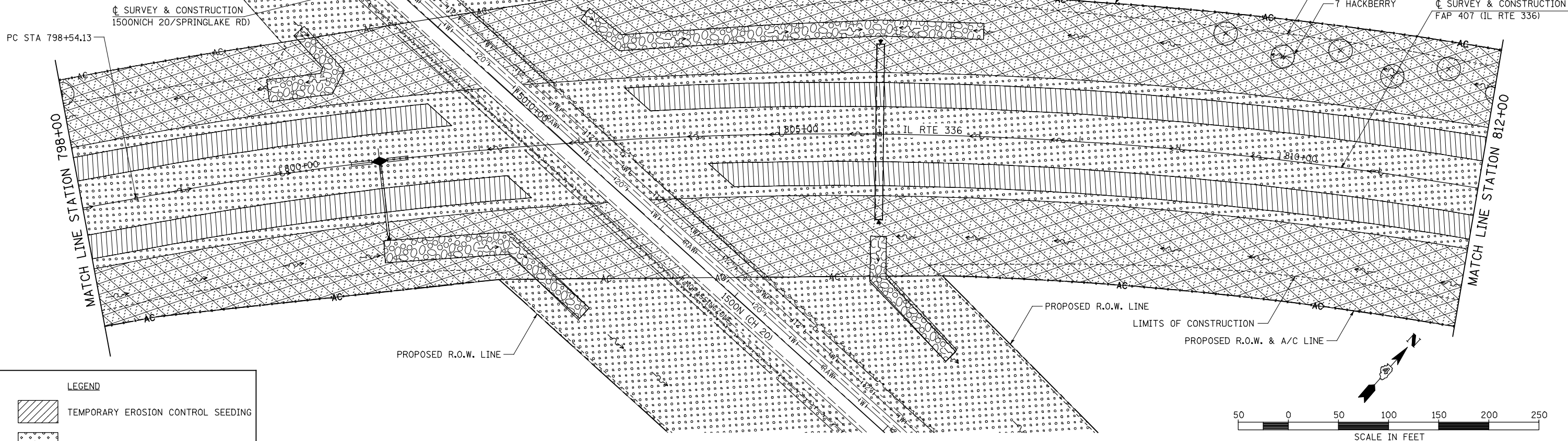
SCALE: 1"=50' SHEET NO. 17 OF 21 SHEETS STA. 783+00 TO STA. 798+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	226
			CONTRACT NO. 68A42	

ILLINOIS FED. AID PROJECT





SEC 23, T 6 N, R 3 W, 4th PM

SEC 14, T 6 N, R 3 W, 4th PM

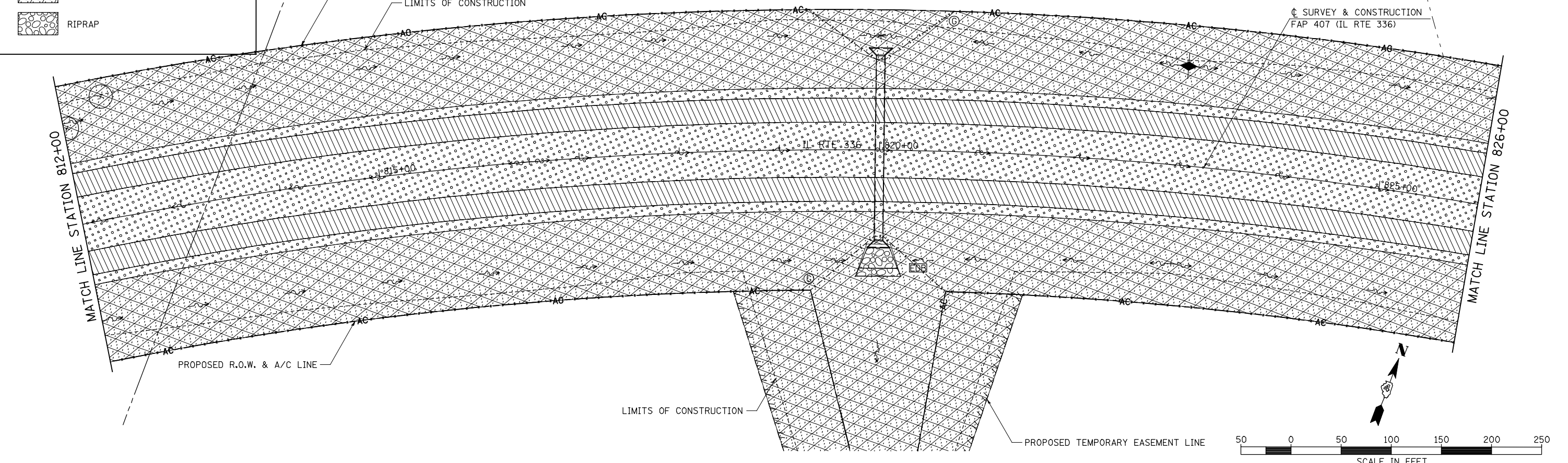


PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNED	
	CHECKED	
	FILE NAME	

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP

SEC 14, T 6 N, R 3 W, 4th PM



PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE	
	NOT AT THIS CHKD	

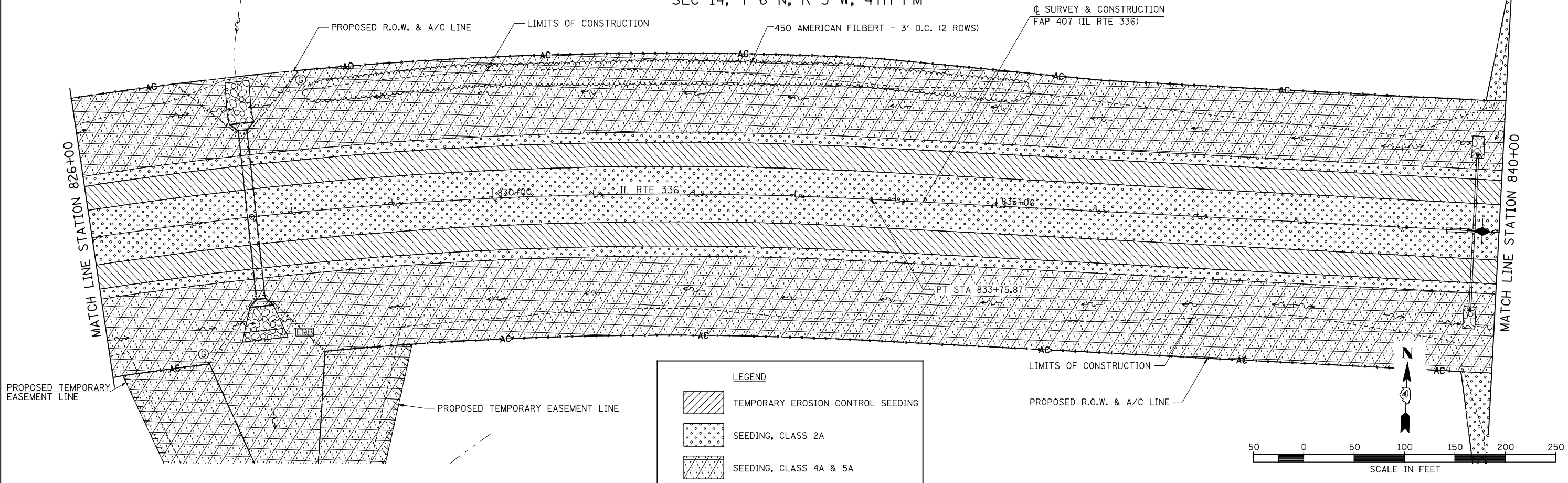
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vs:\transportation\2891\grading plans\2891L16.dgn		DRAWN - JMO	REVISED -
PLOT SCALE = 100.00' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 798+00 TO STATION 826+00
SCALE: 1"=50' SHEET NO. 18 OF 21 SHEETS STA. 798+00 TO STA. 826+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	227
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SEC 14, T 6 N, R 3 W, 4th PM

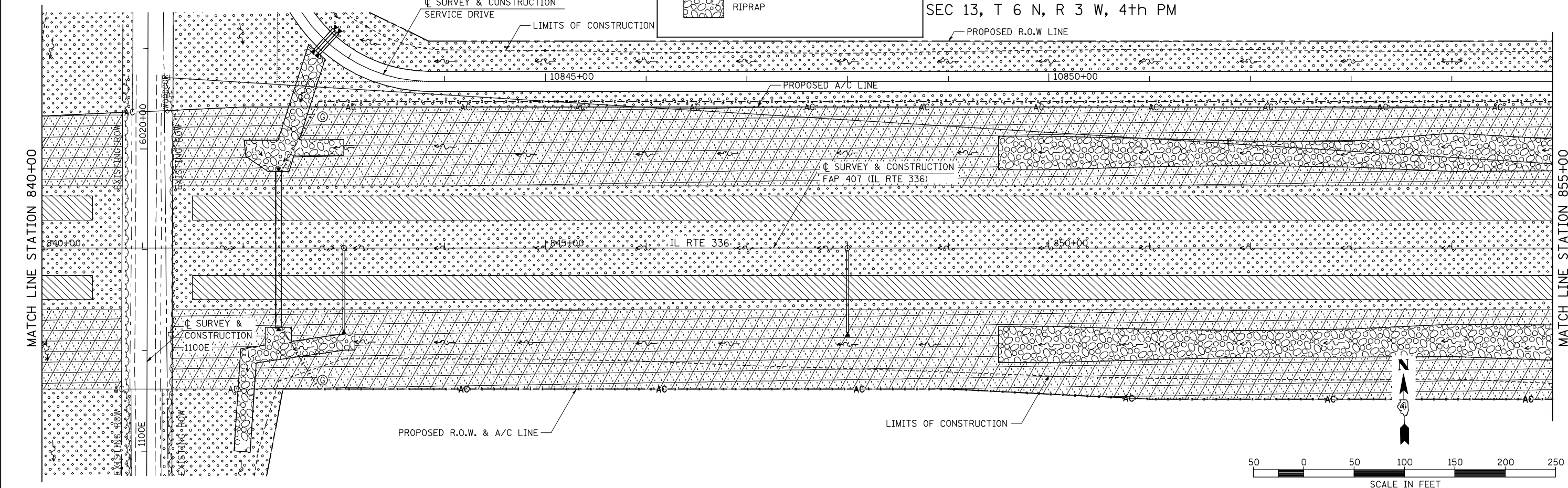


PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	ALIGNED	
	FILE NAME	

LEGEND

- TEMPORARY EROSION CONTROL SEEDING
- SEEDING, CLASS 2A
- SEEDING, CLASS 4A & 5A
- RIPRAP

SEC 13, T 6 N, R 3 W, 4th PM

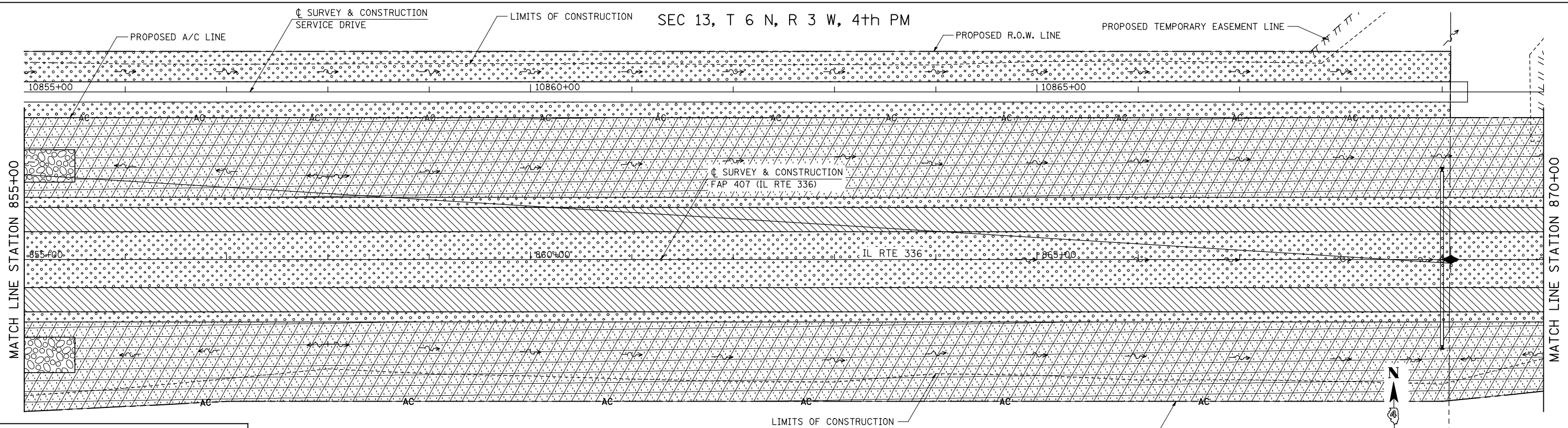


PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE	
	NOTATION CHKD	

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 407 (IL RTE 336) LANDSCAPING PLAN - STATION 826+00 TO STATION 855+00			F.A.P. RTE. 407	SECTION (55-31A)	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 228
vs:\transportation\2891\grading plans\2891L17.dgn		DRAWN - JMO	REVISED -		SCALE: 1"=50'	SHEET NO. 19 OF 21 SHEETS	STA. 826+00	TO STA. 855+00	CONTRACT NO. 68A42			
PLOT SCALE = 100.00' / IN.		CHECKED - AWM	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -									

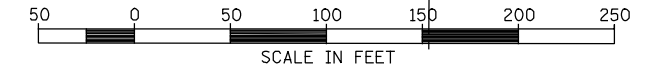
PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	ALIGNED	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE	
	NOTATION	

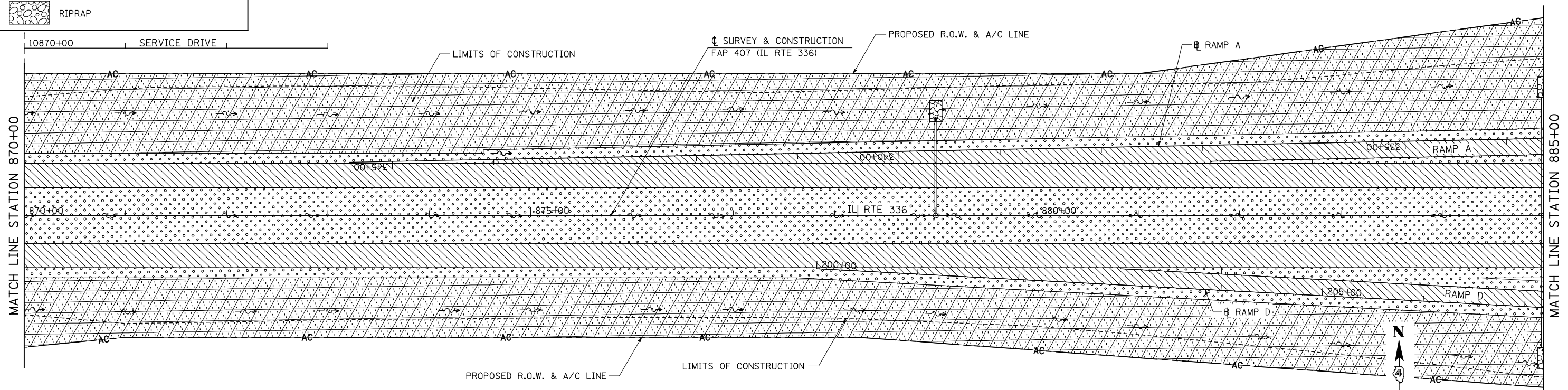


LEGEND

	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP



SEC 13, T 6 N, R 3 W, 4th PM



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
vs:\transportation\2891\grading plans\2891L18.dgn		DRAWN - JMO	REVISED -
		CHECKED - AWM	REVISED -
		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 407 (IL RTE 336)
LANDSCAPING PLAN - STATION 855+00 TO STATION 885+00

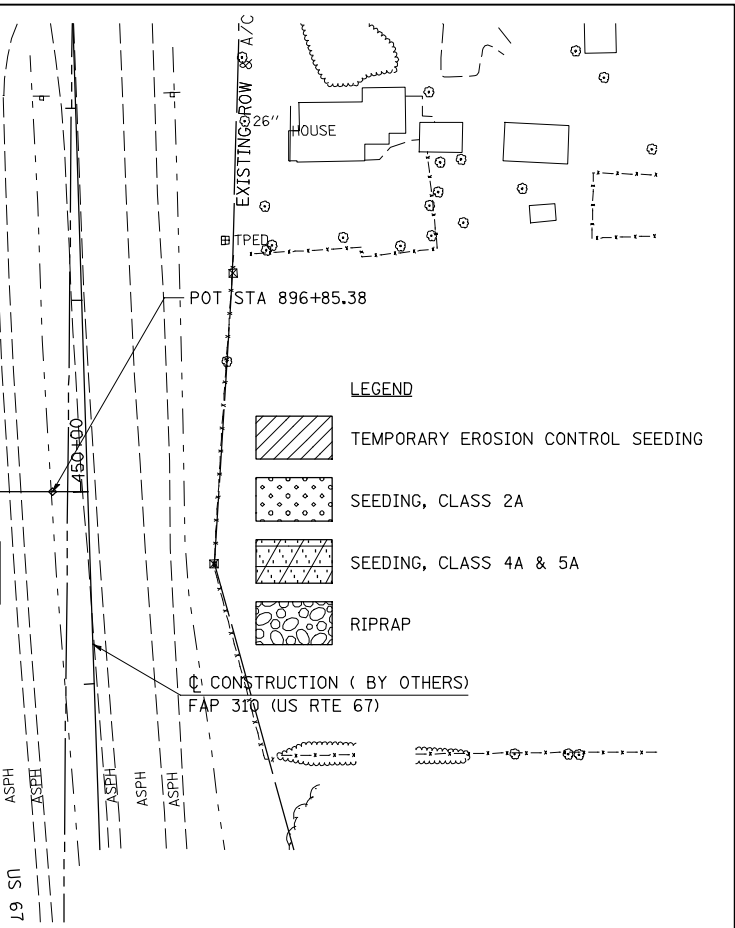
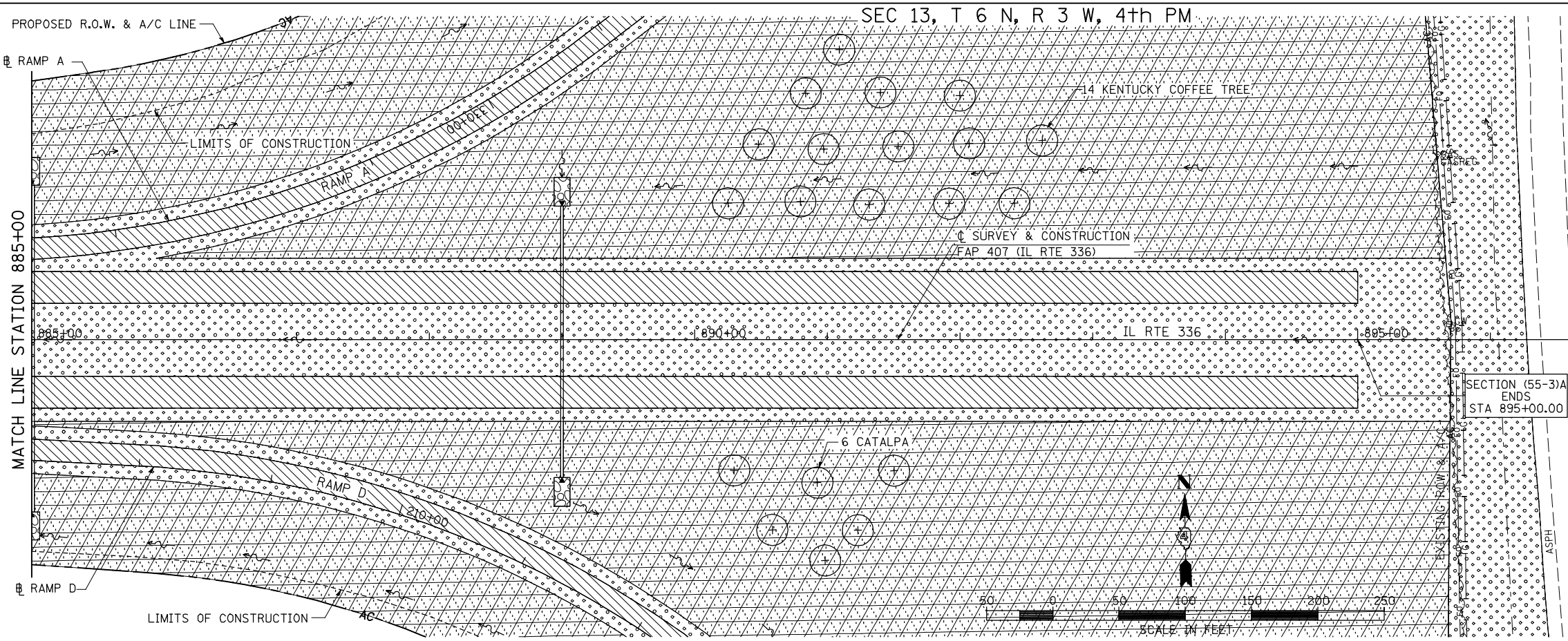
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	229
			CONTRACT NO.	68A42

SCALE: 1"=50' SHEET NO. 20 OF 21 SHEETS STA. 855+00 TO STA. 885+00

ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CARD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	STRUCTURE	
	NOTATION CHKD	



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

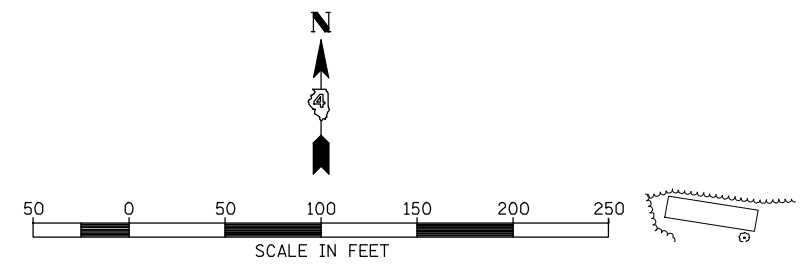
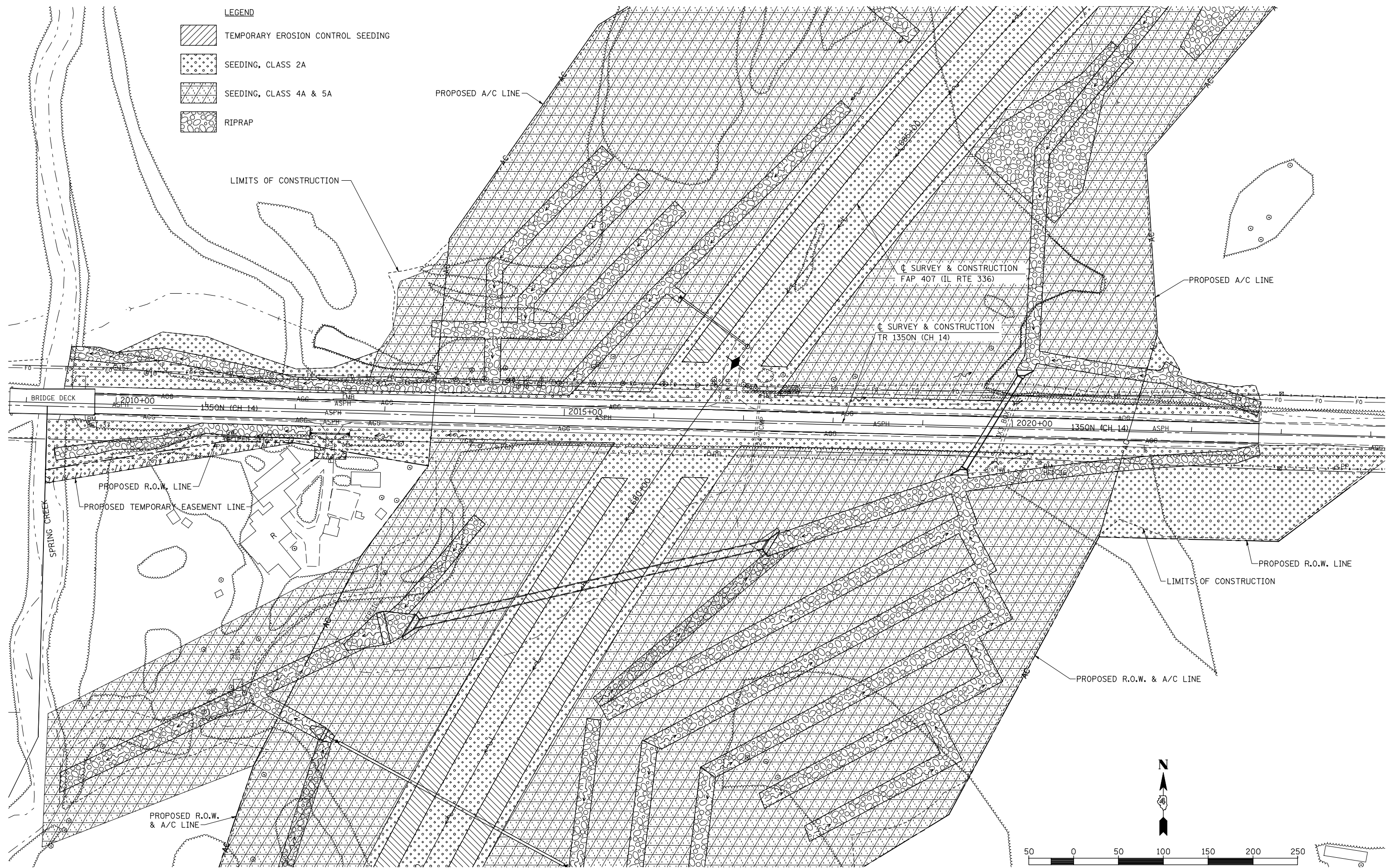
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 407 (IL RTE 336)			
LANDSCAPING PLAN - STATION 885+00 TO STATION 897+00			
SCALE: 1"=50'	SHEET NO. 21 OF 21 SHEETS	STA. 885+00	TO STA. 897+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	230
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

LEGEND

	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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PLOT SCALE = 1/8" = 1' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN 1350N(CH14) - STA. 2019+76 TO STA. 2024+00**

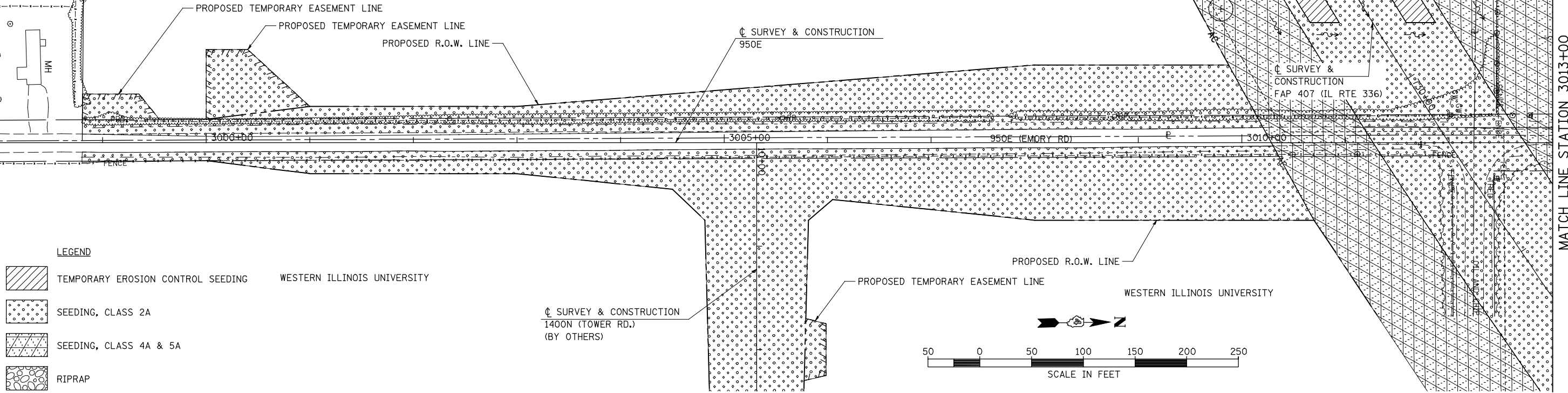
SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 2019+76 TO STA. 2024+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	231
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SEC 27, T 6 N, R 3 W, 4th PM
JOHN E. & NANCY L. LAVERDIERE

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNMENT	CHECKED
	STRUCTURE	NO. / DATE
	FILE NAME	

MATCH LINE STATION 2998+00



MATCH LINE STATION 3013+00

LEGEND

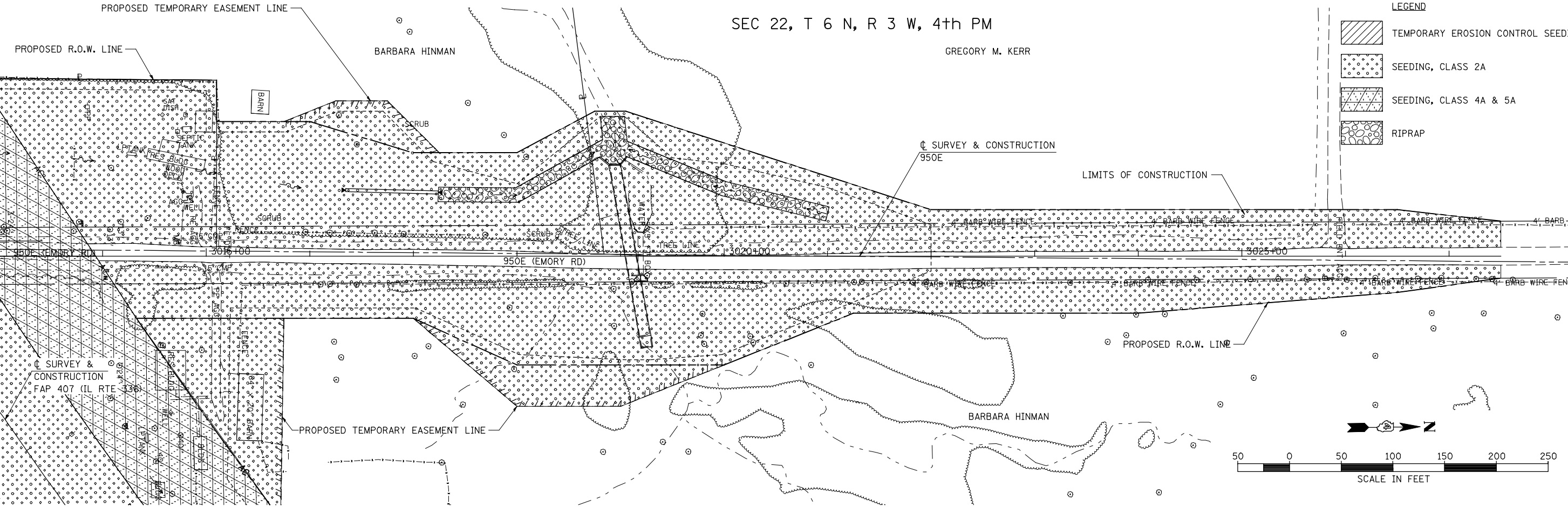
[Hatched pattern]	TEMPORARY EROSION CONTROL SEEDING
[Dotted pattern]	SEEDING, CLASS 2A
[Diagonal lines]	SEEDING, CLASS 4A & 5A
[Circular pattern]	RIPRAP

WESTERN ILLINOIS UNIVERSITY

WESTERN ILLINOIS UNIVERSITY

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	CHECKED
	STRUCTURE	NO. / DATE
	NOTATION CHKD	

MATCH LINE STATION 3013+00



LEGEND

[Hatched pattern]	TEMPORARY EROSION CONTROL SEEDING
[Dotted pattern]	SEEDING, CLASS 2A
[Diagonal lines]	SEEDING, CLASS 4A & 5A
[Circular pattern]	RIPRAP

BARBARA HINMAN

GREGORY M. KERR

BARBARA HINMAN





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		CHECKED - AWM	REVISED -
		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN 950E - STA. 2998+00 TO STA. 3027+50**

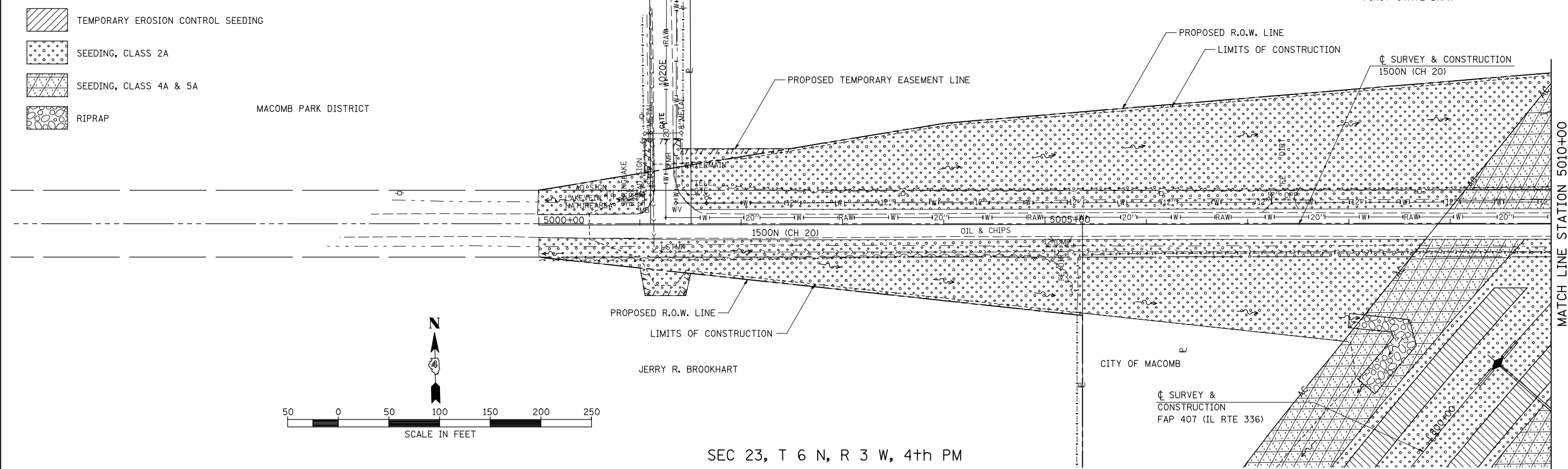
SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 2998+00 TO STA. 3027+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	232
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

- LEGEND**
-  TEMPORARY EROSION CONTROL SEEDING
 -  SEEDING, CLASS 2A
 -  SEEDING, CLASS 4A & 5A
 -  RIPRAP

SEC 14, T 6 N, R 3 W, 4th PM

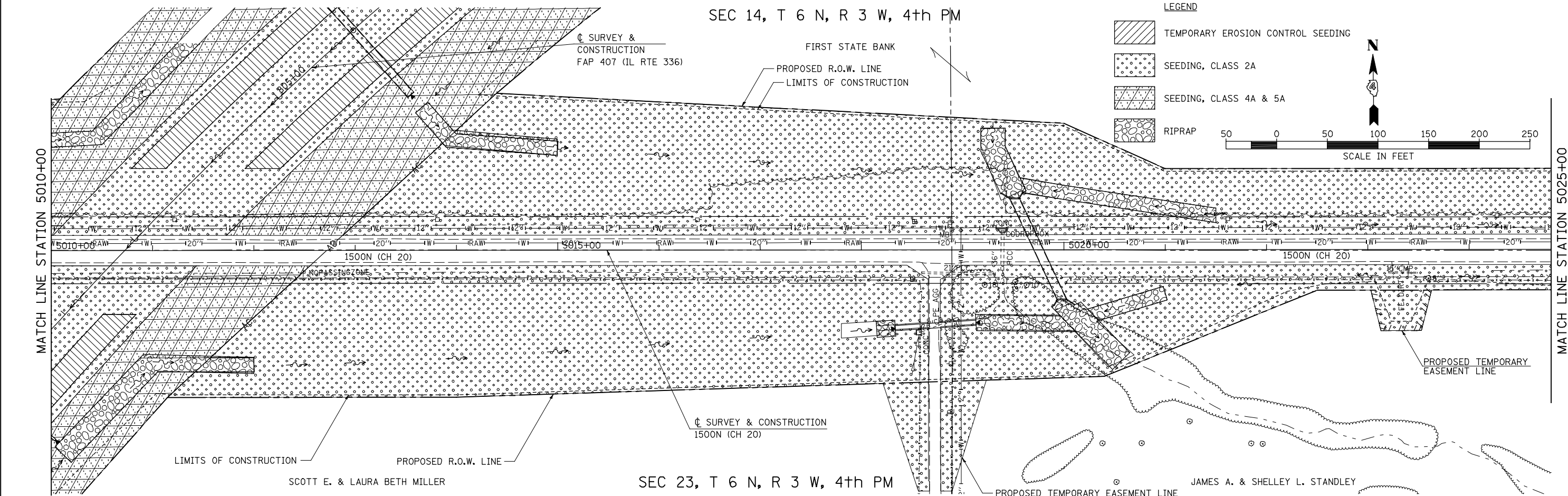
FIRST STATE BANK



SEC 23, T 6 N, R 3 W, 4th PM

SEC 14, T 6 N, R 3 W, 4th PM

FIRST STATE BANK



SEC 23, T 6 N, R 3 W, 4th PM

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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	PLOT SCALE = 100.00' / IN.	CHECKED - AWM	REVISED -
	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 407 (IL RTE 336)
LANDSCAPING PLAN 1500N (CH 20) - STA. 4998+00 TO STA. 5025+00





SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. 4998+00 TO STA. 5025+00

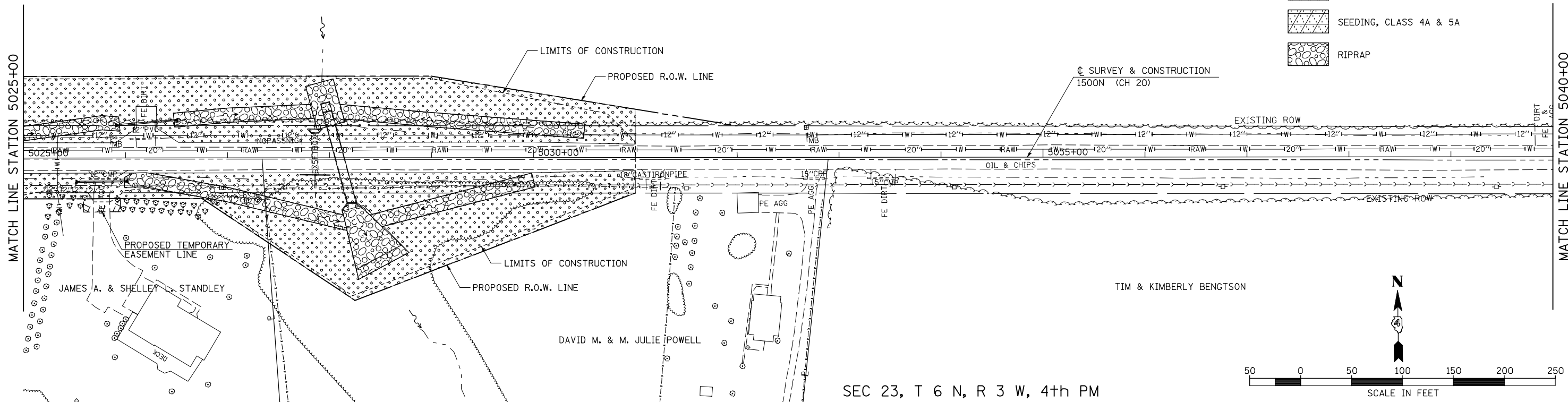
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	233
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SEC 14, T 6 N, R 3 W, 4th PM

FIRST STATE BANK

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP







SEC 14, T 6 N, R 3 W, 4th PM

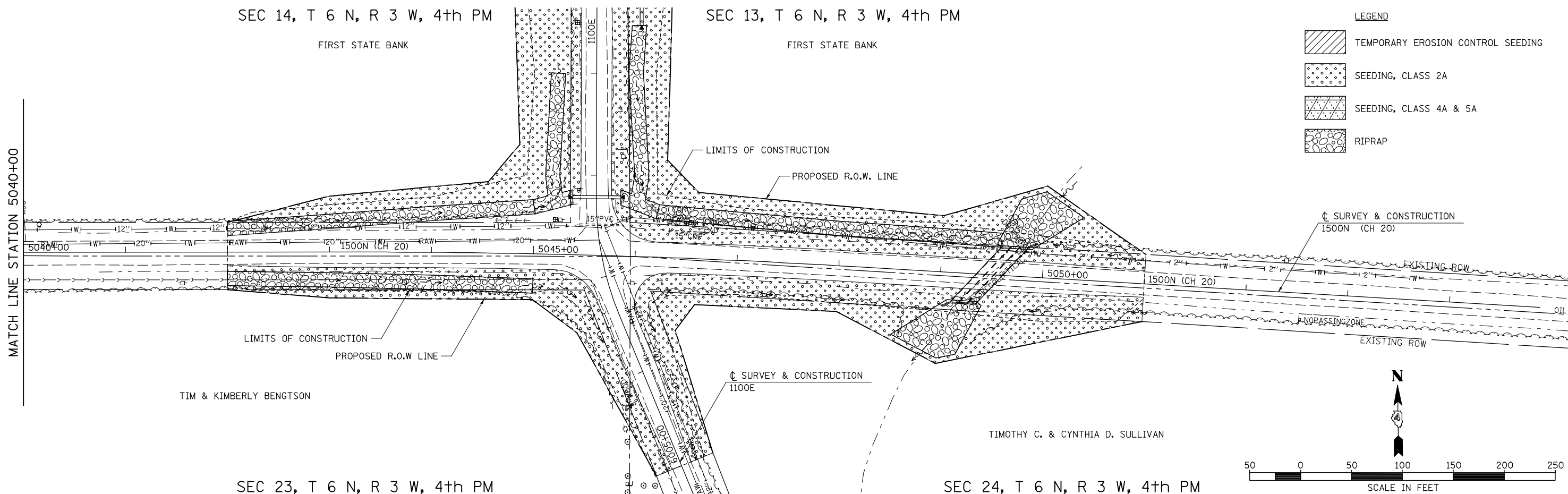
FIRST STATE BANK

SEC 13, T 6 N, R 3 W, 4th PM

FIRST STATE BANK

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP



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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 407 (IL RTE 336)
LANDSCAPING PLAN 1500N (CH20) - STA. 5025+00 TO STA. 5054+00





SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. 5025+00 TO STA. 5054+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	234
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SEC 23, T 6 N, R 3 W, 4th PM

SEC 14, T 6 N, R 3 W, 4th PM

LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4A & 5A
-  RIPRAP

☩ SURVEY & CONSTRUCTION
1500N (CH 20)

TIM & KIMBERLY BENGTON

PROPOSED R.O.W. LINE

LIMITS OF CONSTRUCTION

☩ SURVEY & CONSTRUCTION
1100E

FIRST STATE BANK

PROPOSED R.O.W. & A/C LINE

PROPOSED R.O.W. LINE

EXISTING ROW

1100E 6010+00

6015+00 1100E

PROPOSED R.O.W. LINE

LIMITS OF CONSTRUCTION

☩ SURVEY & CONSTRUCTION
FAP 407 (IL RTE 336)

PROPOSED R.O.W. & A/C LINE

FIRST STATE BANK

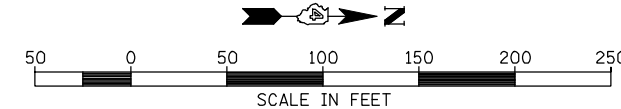
PROPOSED R.O.W. LINE

PROPOSED R.O.W. LINE

TIMOTHY C. & CYNTHIA D. SULLIVAN

SEC 24, T 6 N, R 3 W, 4th PM

SEC 13, T 6 N, R 3 W, 4th PM



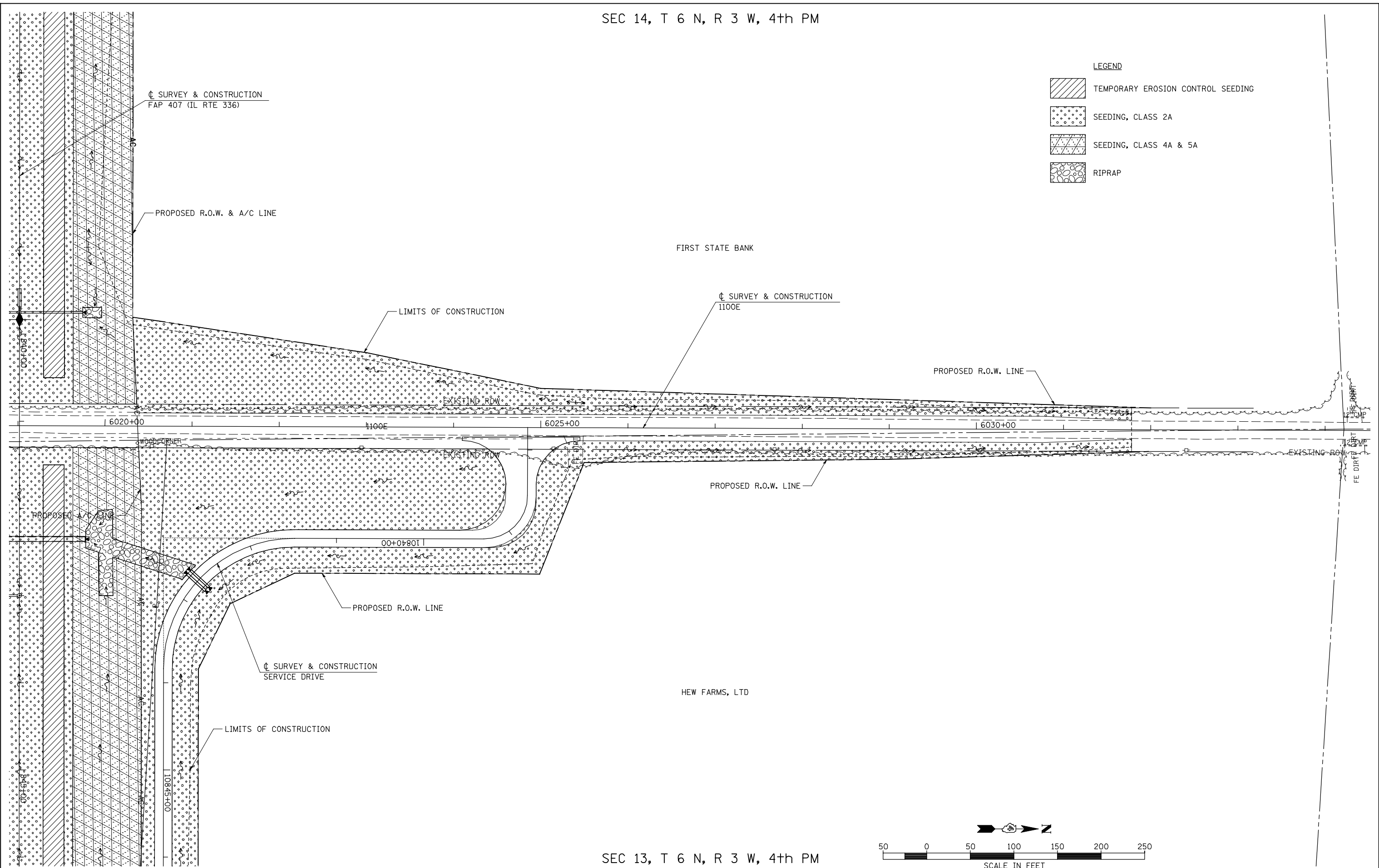
FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
vs:\transportation\2891\grading plans\2891L23(1100E).dgn		DRAWN - JMO	REVISED -
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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 407 (IL RTE 336)
LANDSCAPING PLAN 1100E - STA. 6004+00 TO STA. 6019+00

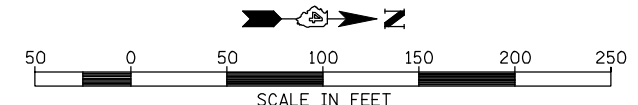
SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. 6004+00 TO STA. 6019+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	235
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				



LEGEND

	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP



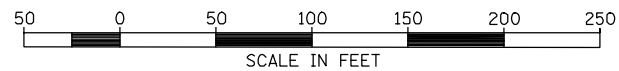
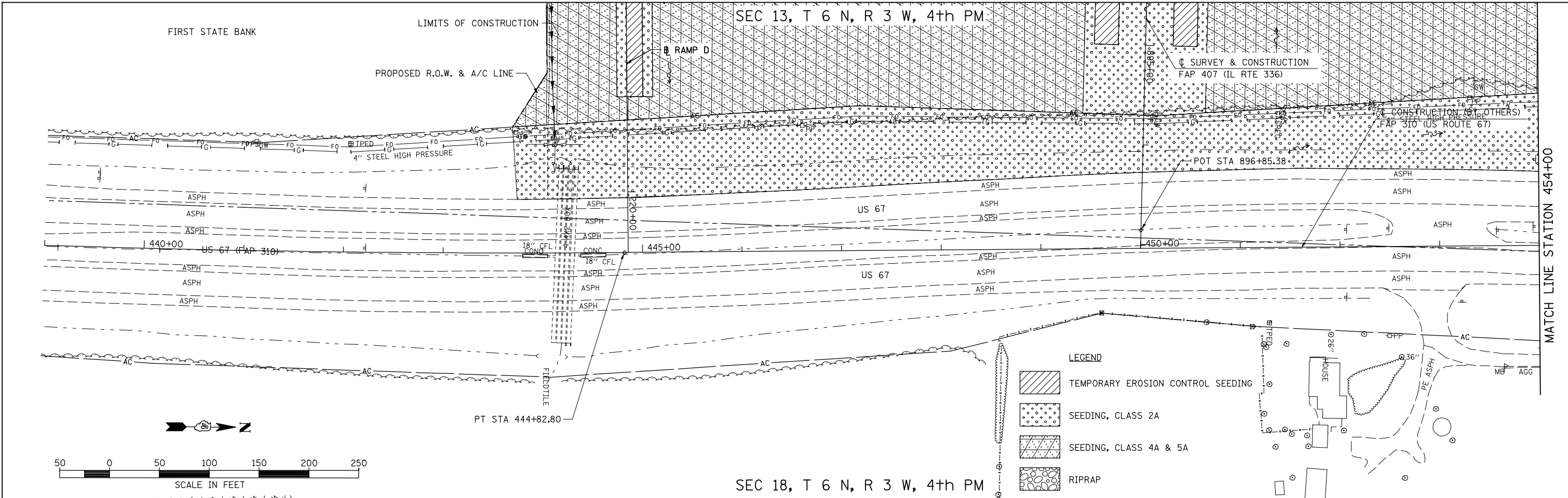
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PLOT SCALE = 1/8" = 100.00' / IN.		CHECKED - AWM	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 407 (IL RTE 336)			
LANDSCAPING PLAN 1100E STA. 6019+00 TO STA. 6034+00			
SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS	STA. 6019+00 TO STA. 6034+00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	236
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

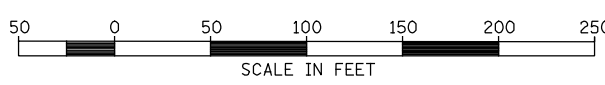
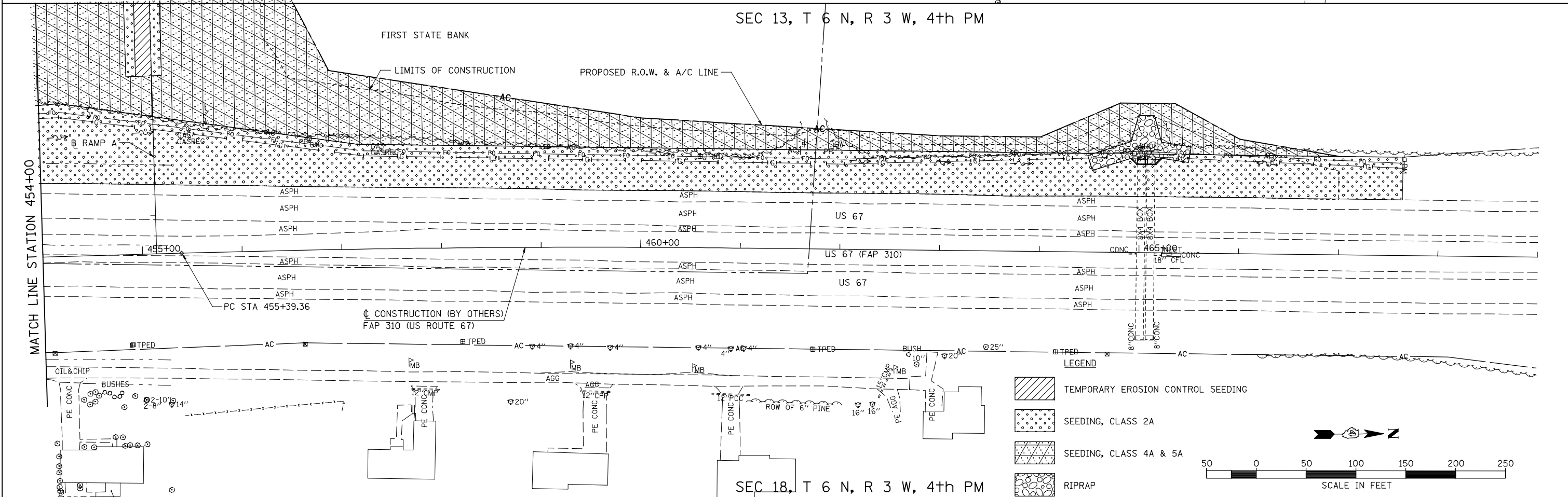
PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	ASSEMBLED	
	FILE NAME	
NOTE BOOK NO.		



LEGEND

	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATION	
NOTE BOOK NO.		



LEGEND

	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP

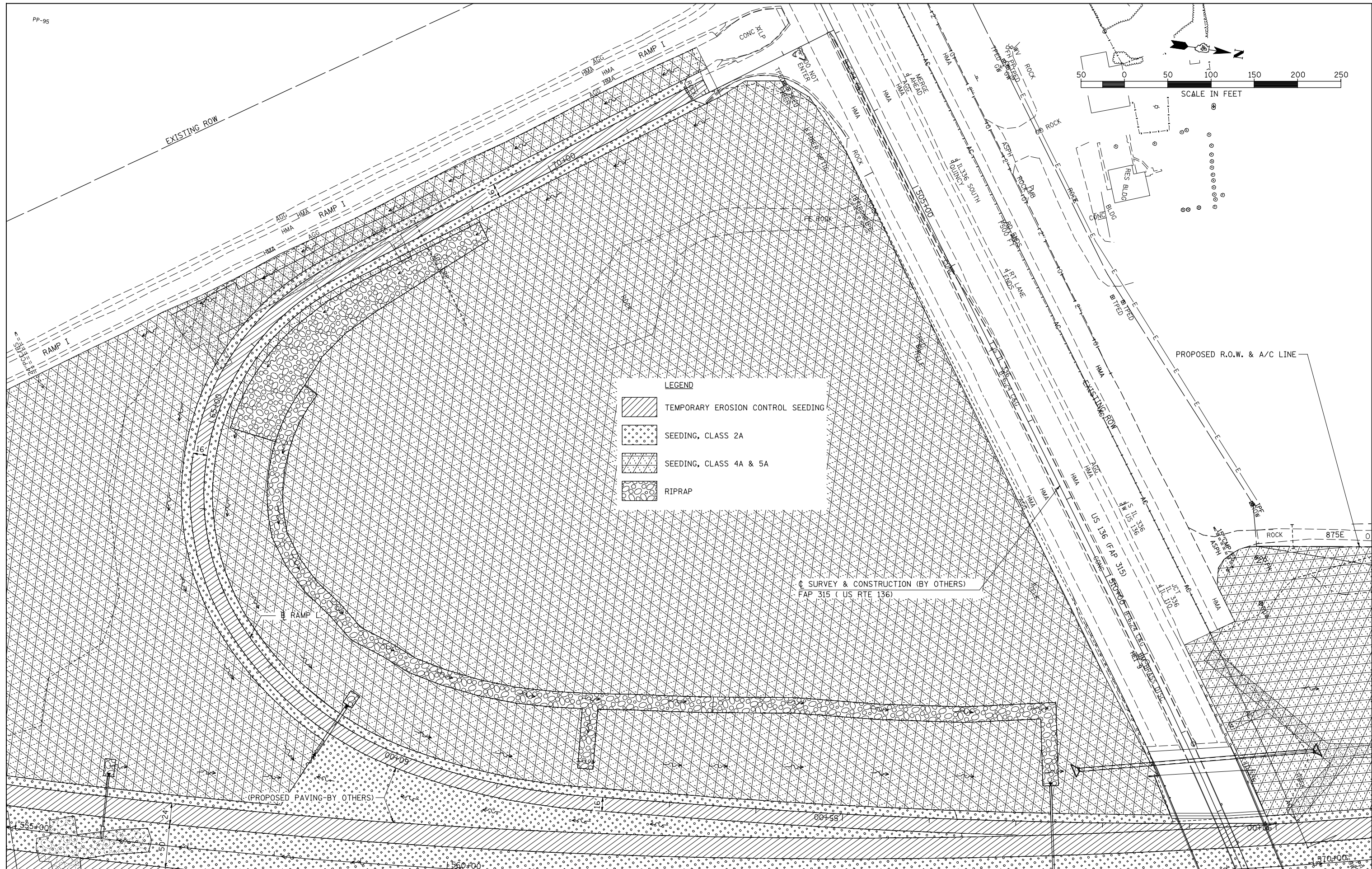
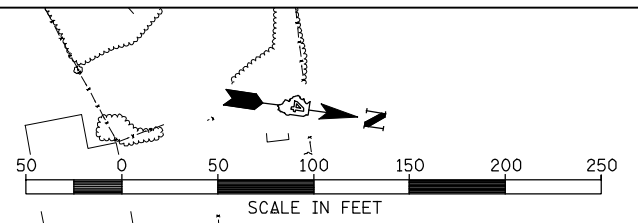
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vs:\transportation\2891\grading plans\2891\30US67.dgn	DESIGNED - JRB
	DRAWN - JMO
PLOT SCALE = 1/8" = 1' / IN.	CHECKED - AWM
PLOT DATE = 12/12/2012	DATE - 12-12-12

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 407 (IL RTE 336)
LANDSCAPING PLAN US 67- STATION 439+00 TO STATION 469+00
SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 439+00 TO STA. 469+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	237
			CONTRACT NO.	68A42
ILLINOIS FED. AID PROJECT				



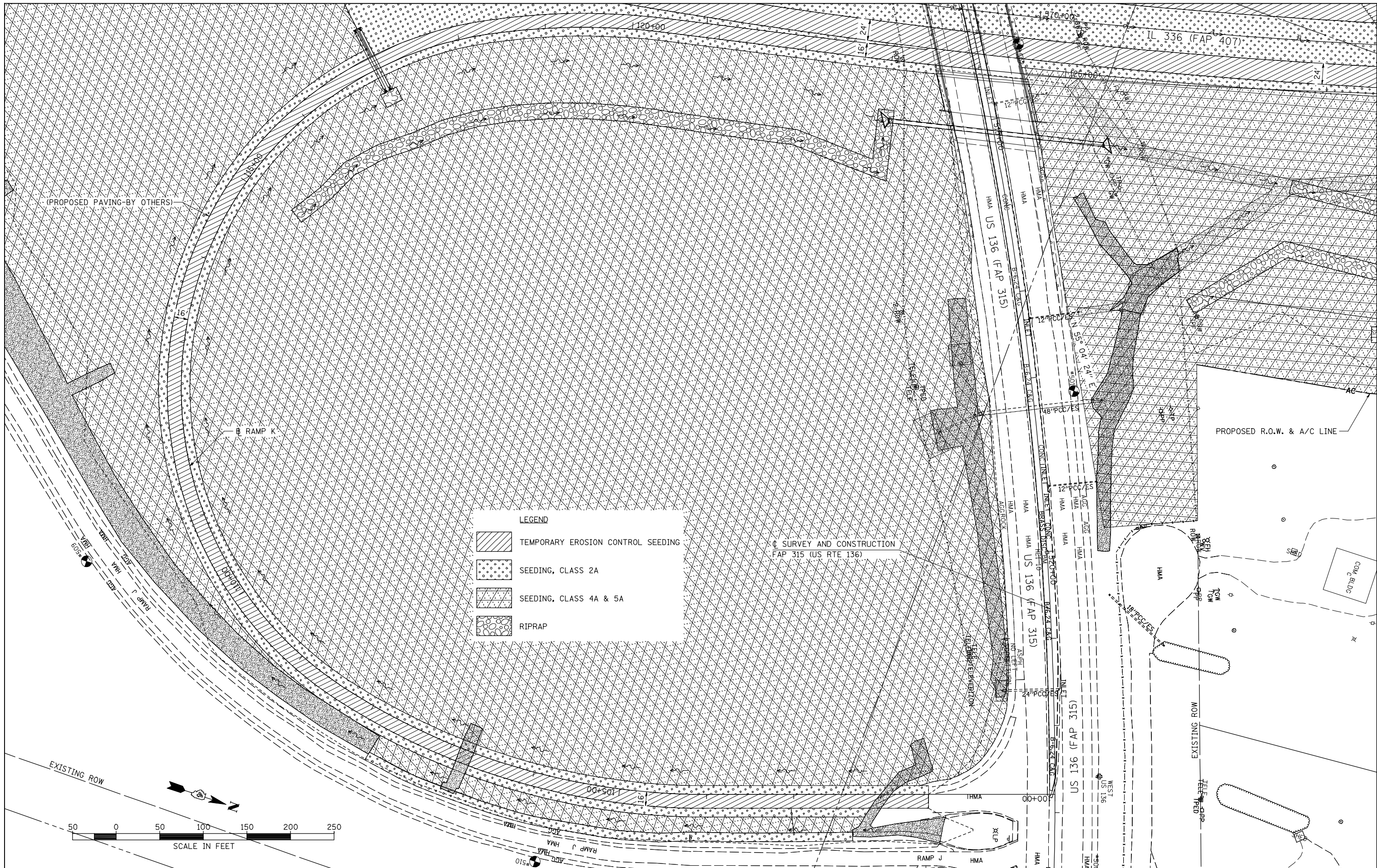
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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - RAMP I**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 50+00.00 TO STA. 72+04.23

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	238
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				



LEGEND

	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP



FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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	PLOT SCALE = 100.00' / IN.	CHECKED - AWM	REVISED -
	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - RAMP K**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 101+45.00 TO STA. 122+38.18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-31A)	McDONOUGH	671	239
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

SEC 13, T 6 N, R 3 W, 4th PM

FIRST STATE BANK

MATCH LINE STATION 885+00

US 67 SB

US 67 NB

SECTION (55-3)A
ENDS
STA 886+50.00

☐ SURVEY & CONSTRUCTION
FAP 407 (IL 336)

LIMITS OF CONSTRUCTION

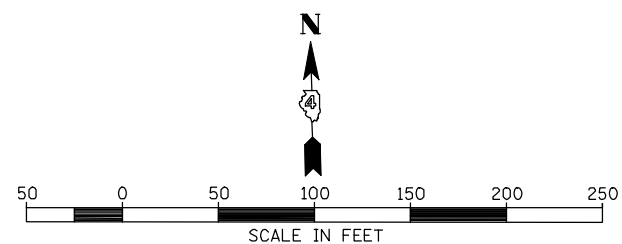
PROPOSED R.O.W. & A/C LINE

(PROPOSED PAVING-BY OTHERS)

RAMP D

END OF RAMP D
IMPROVEMENTS
STA 322+39.93

☐ CONSTRUCTION (BY OTHERS)
FAP RTE 310 (US RTE 67)



LEGEND

	TEMPORARY EROSION CONTROL SEEDING
	SEEDING, CLASS 2A
	SEEDING, CLASS 4A & 5A
	RIPRAP

FILE NAME =	USER NAME = jdeen	DESIGNED - JRB	REVISED -
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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

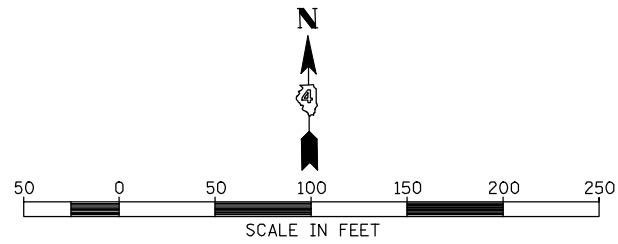
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 407 (IL RTE 336)
LANDSCAPING PLAN - RAMP D

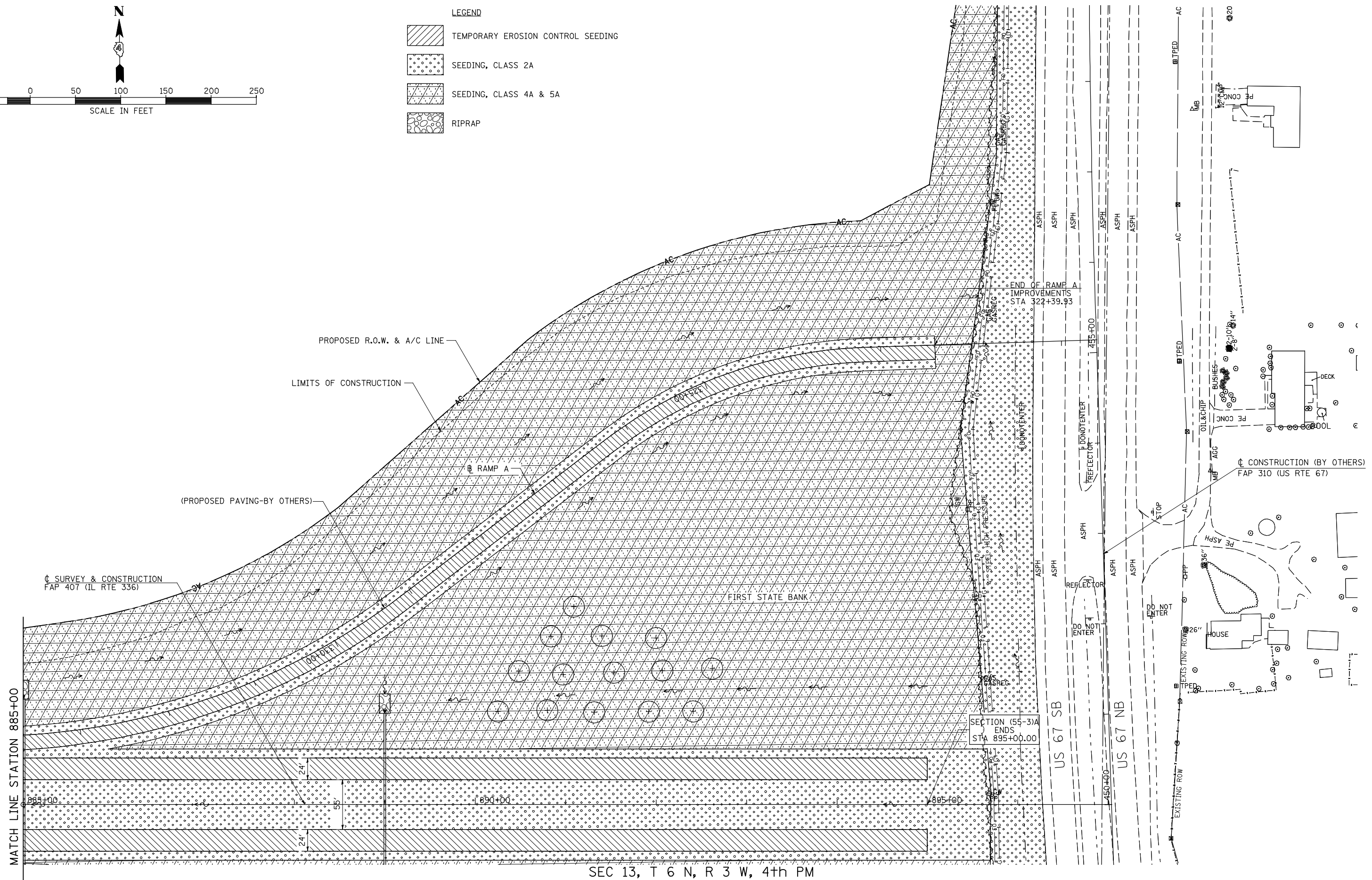
SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	240
			CONTRACT NO. 68A42	

ILLINOIS FED. AID PROJECT



- LEGEND**
- TEMPORARY EROSION CONTROL SEEDING
 - SEEDING, CLASS 2A
 - SEEDING, CLASS 4A & 5A
 - RIPRAP



SEC 13, T 6 N, R 3 W, 4th PM

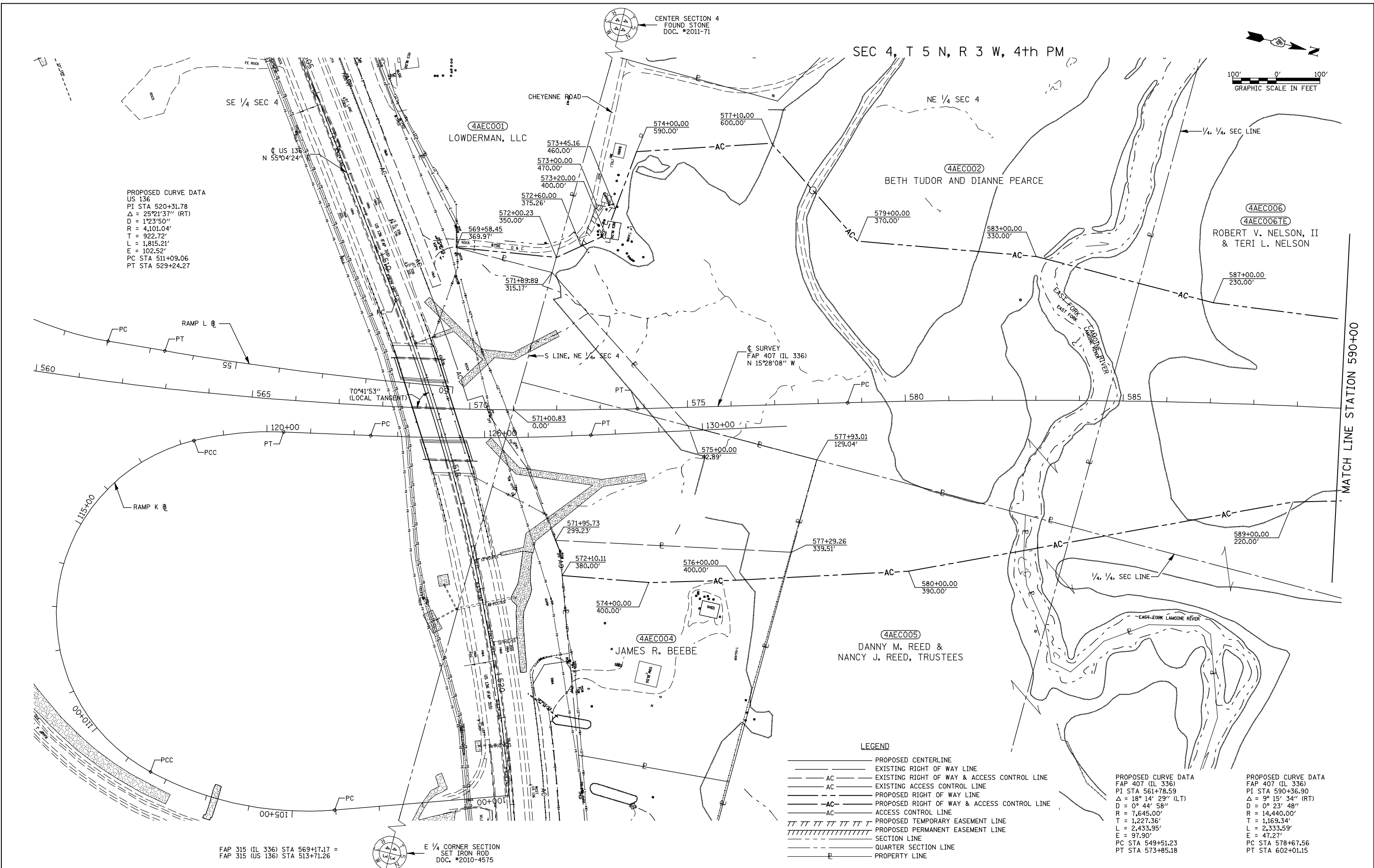
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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
LANDSCAPING PLAN - RAMP A**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	241
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				



PROPOSED CURVE DATA
 US 136
 PI STA 520+31.78
 $\Delta = 25^\circ 21' 37''$ (RT)
 D = 1'23'50"
 R = 4,101.04'
 T = 922.72'
 L = 1,815.21'
 E = 102.52'
 PC STA 511+09.06
 PT STA 529+24.27

PROPOSED CURVE DATA
 FAP 407 (IL 336)
 PI STA 561+78.59
 $\Delta = 18^\circ 14' 29''$ (LT)
 D = 0' 44' 58"
 R = 7,645.00'
 T = 1,227.36'
 L = 2,433.95'
 E = 97.90'
 PC STA 549+51.23
 PT STA 573+85.18

PROPOSED CURVE DATA
 FAP 407 (IL 336)
 PI STA 590+36.90
 $\Delta = 9^\circ 15' 34''$ (RT)
 D = 0' 23' 48"
 R = 14,440.00'
 T = 1,169.34'
 L = 2,333.59'
 E = 47.27'
 PC STA 578+67.56
 PT STA 602+01.15

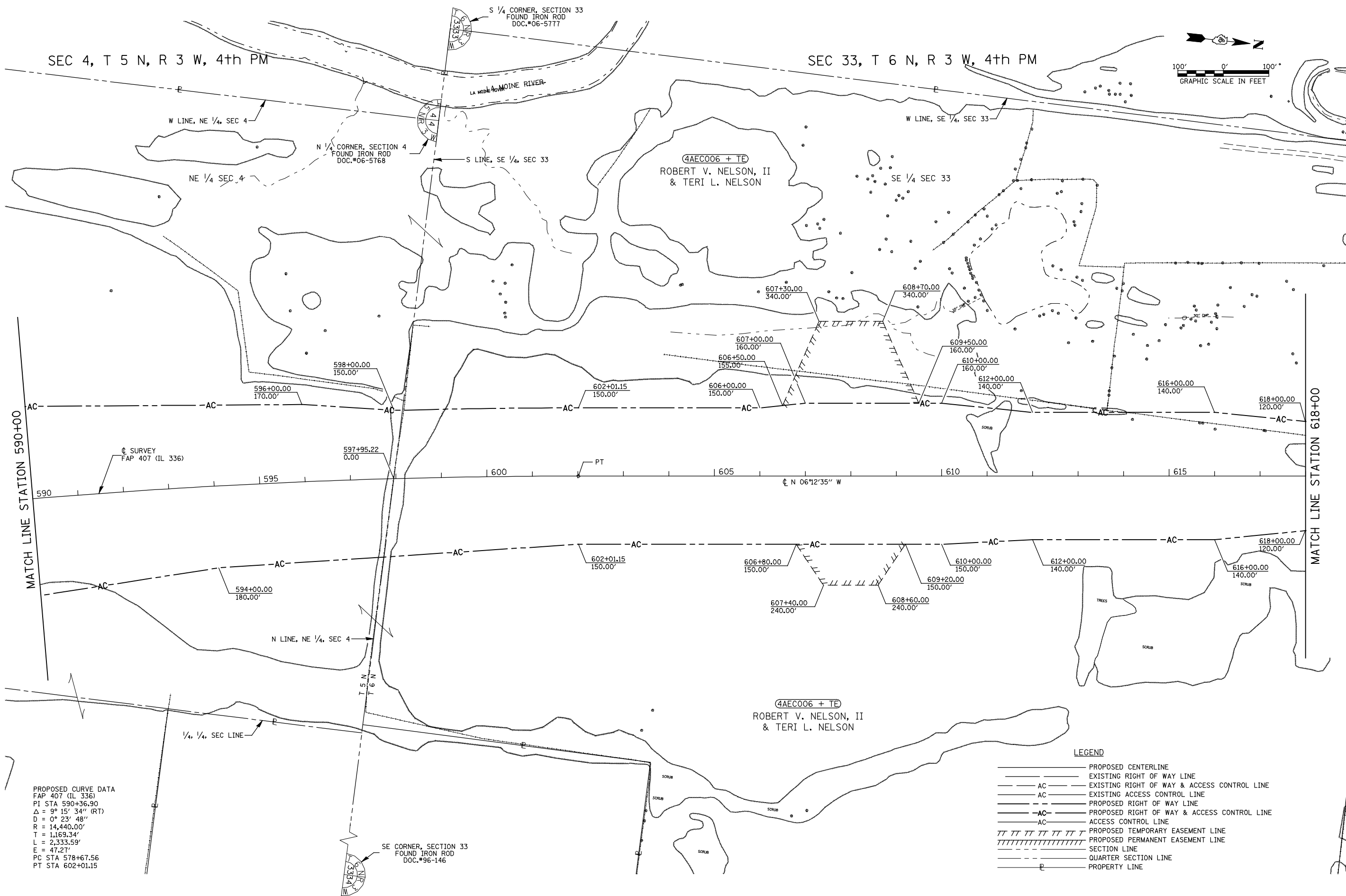
- LEGEND**
- PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - AC — EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — EXISTING ACCESS CONTROL LINE
 - PROPOSED RIGHT OF WAY LINE
 - AC — PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — ACCESS CONTROL LINE
 - ||||| PROPOSED TEMPORARY EASEMENT LINE
 - ||||| PROPOSED PERMANENT EASEMENT LINE
 - SECTION LINE
 - QUARTER SECTION LINE
 - PROPERTY LINE

FILE NAME W:\Transportation\2891\Grading Plans\ROWPlan01.dgn	USER NAME = jdeen	DESIGNED -	REVISED - 02/2012
PLOT SCALE = 200.00' / IN.	CHECKED - DJH	REVISOR - DJH	REVISED - 05/2012
PLOT DATE = 12/12/2012	DATE - 05/2012	REVISOR - JWD	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

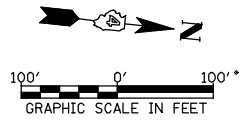
RIGHT OF WAY PLANS	
PROJECT	JOB NO. R-94-004-11
SCALE: 1" = 100'	SHEET NO. 1 OF 15 SHEETS
	STA. 560+00 TO STA. 590+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	242
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 68A42		



SEC 4, T 5 N, R 3 W, 4th PM

SEC 33, T 6 N, R 3 W, 4th PM



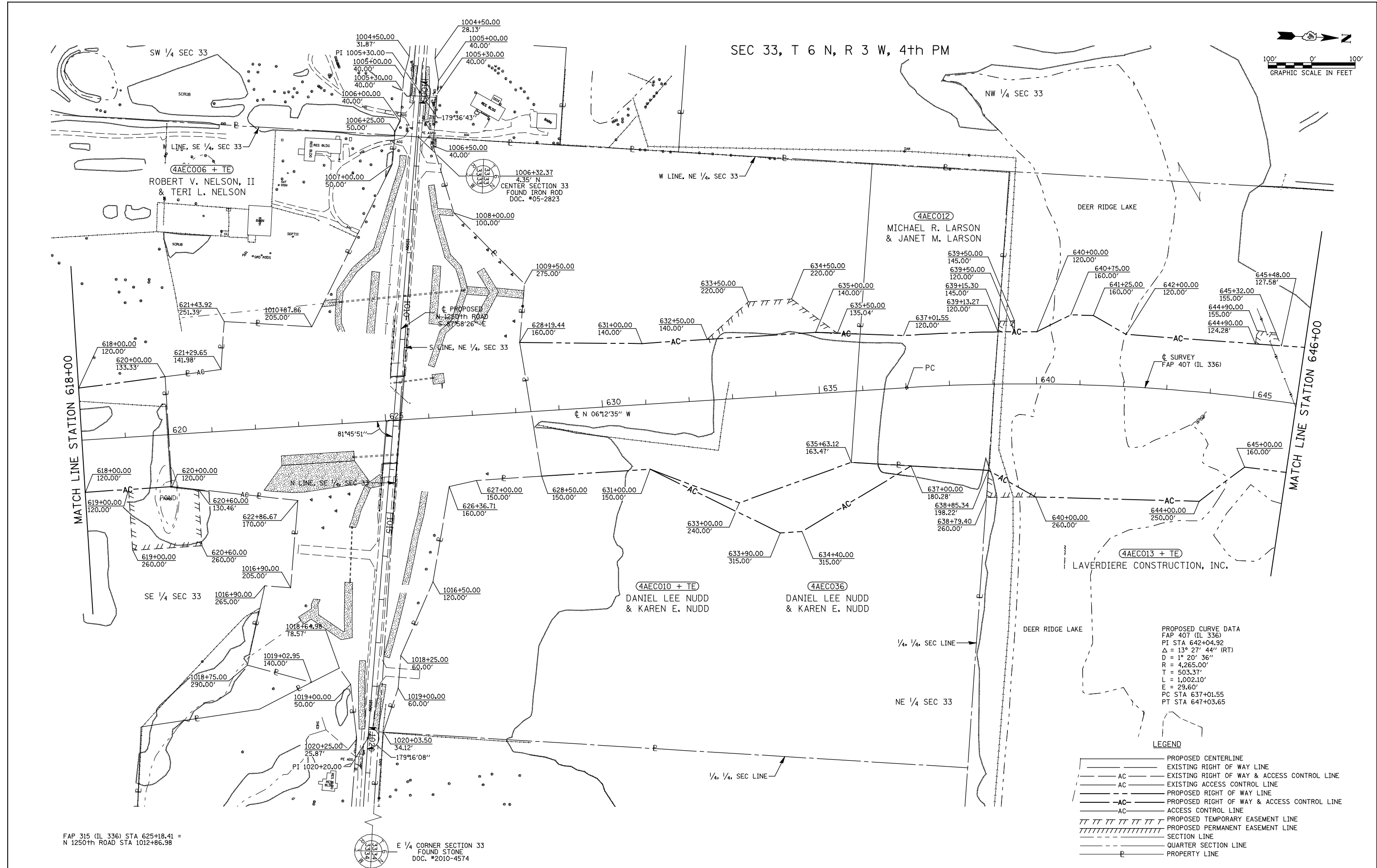
PROPOSED CURVE DATA
 FAP 407 (IL 336)
 PI STA 590+36.90
 $\Delta = 9^\circ 15' 34''$ (RT)
 $D = 0^\circ 23' 48''$
 $R = 14,440.00'$
 $T = 1,169.34'$
 $L = 2,333.59'$
 $E = 47.27'$
 PC STA 578+67.56
 PT STA 602+01.15

- LEGEND**
- PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - AC ————— EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
 - AC ————— EXISTING ACCESS CONTROL LINE
 - AC ————— PROPOSED RIGHT OF WAY LINE
 - AC ————— PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
 - AC ————— ACCESS CONTROL LINE
 - ||||| PROPOSED TEMPORARY EASEMENT LINE
 - ||||| PROPOSED PERMANENT EASEMENT LINE
 - SECTION LINE
 - QUARTER SECTION LINE
 - PROPERTY LINE

FILE NAME	USER NAME = jdeen	DESIGNED -	REVISED - 02/2012
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	PLOT DATE = 12/12/2012	DATE - 05/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS		
PROJECT	JOB NO. R-94-004-11	F.A.P. RTE. 407
SCALE: 1" = 100'	SHEET NO. 2 OF 15 SHEETS	SECTION (55-3)A
	STA. 590+00 TO STA. 618+00	COUNTY McDONOUGH
		TOTAL SHEETS 671
		SHEET NO. 243
		CONTRACT NO. 68A42
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



FAP 315 (IL 336) STA 625+18.41 =
N 1250th ROAD STA 1012+86.98

E 1/4 CORNER SECTION 33
FOUND STONE
DOC. #2010-4574

PROPOSED CURVE DATA
FAP 407 (IL 336)
PI STA 642+04.92
Δ = 13° 27' 44" (RT)
D = 1° 20' 36"
R = 4,265.00'
T = 503.37'
L = 1,002.10'
E = 29.60'
PC STA 637+01.55
PT STA 647+03.65

LEGEND

	PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE
	EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
	EXISTING ACCESS CONTROL LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
	ACCESS CONTROL LINE
	PROPOSED TEMPORARY EASEMENT LINE
	PROPOSED PERMANENT EASEMENT LINE
	SECTION LINE
	QUARTER SECTION LINE
	PROPERTY LINE

FILE NAME W:\Transportation\2891\Grading Plans\2891RWP\Plan83.dgn	USER NAME = jdeen	DESIGNED -	REVISED - 02/2012
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PLOT DATE = 12/12/2012		CHECKED - JWD	REVISED -
		DATE - 05/2012	REVISED -

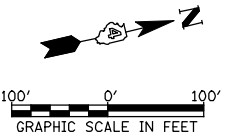
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS

SCALE: 1" = 100'	PROJECT SHEET NO. 3 OF 15 SHEETS	JOB NO. R-94-004-11 STA. 618+00 TO STA. 646+00
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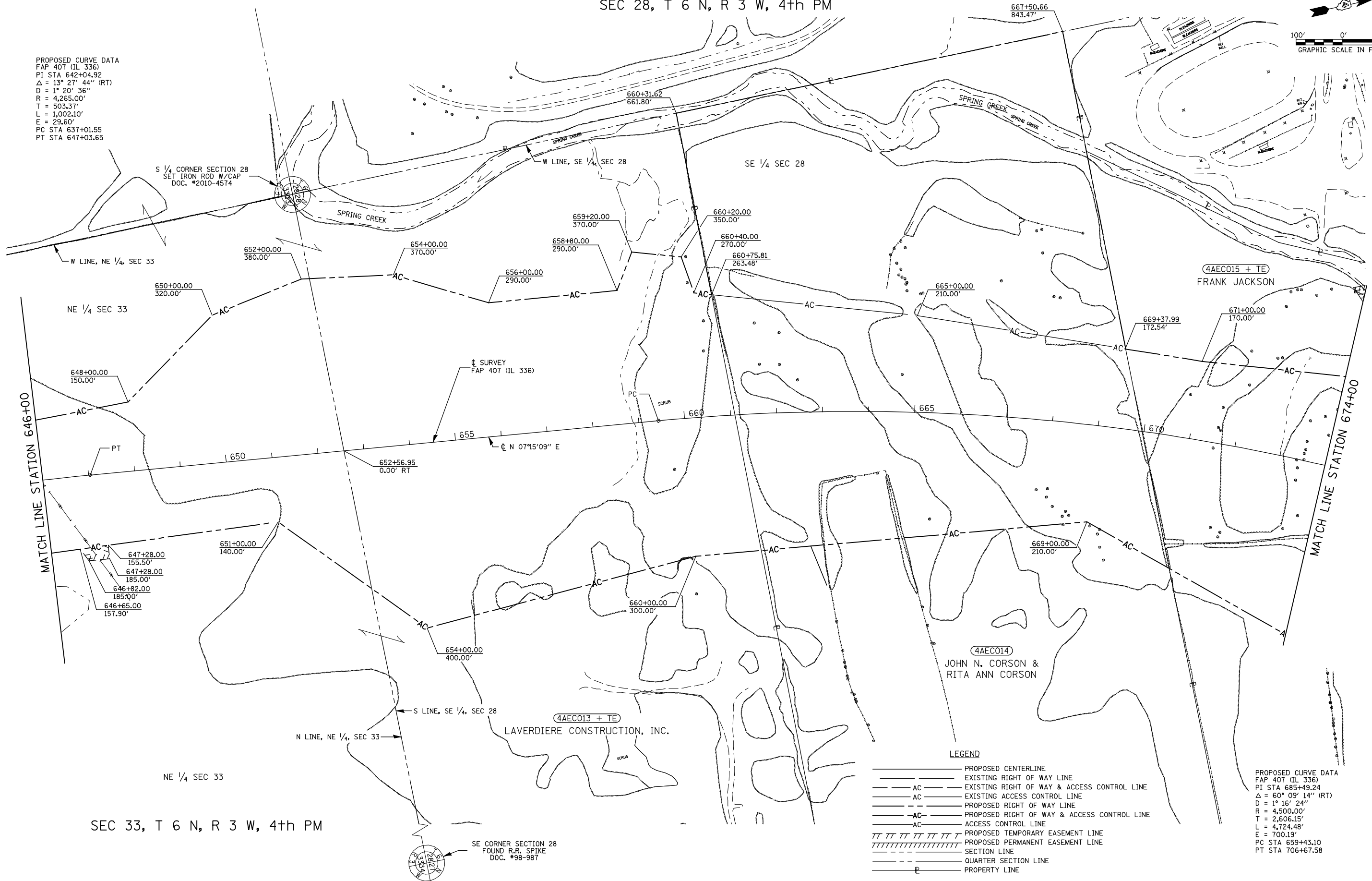
F.A.P. RTE. 407	SECTION (55-3)A	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 244
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SEC 28, T 6 N, R 3 W, 4th PM



PROPOSED CURVE DATA
 FAP 407 (IL 336)
 PI STA 642+04.92
 $\Delta = 13^\circ 27' 44''$ (RT)
 $D = 1^\circ 20' 36''$
 $R = 4,265.00'$
 $T = 503.37'$
 $L = 1,002.10'$
 $E = 29.60'$
 PC STA 637+01.55
 PT STA 647+03.65

S 1/4 CORNER SECTION 28
 SET IRON ROD W/CAP
 DOC. #2010-4574



SEC 33, T 6 N, R 3 W, 4th PM

SE CORNER SECTION 28
 FOUND R.R. SPIKE
 DOC. #98-987

- LEGEND**
- PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - AC — EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — EXISTING ACCESS CONTROL LINE
 - PROPOSED RIGHT OF WAY LINE
 - AC — PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — ACCESS CONTROL LINE
 - /// PROPOSED TEMPORARY EASEMENT LINE
 - /// PROPOSED PERMANENT EASEMENT LINE
 - SECTION LINE
 - QUARTER SECTION LINE
 - PROPERTY LINE

PROPOSED CURVE DATA
 FAP 407 (IL 336)
 PI STA 685+49.24
 $\Delta = 60^\circ 09' 14''$ (RT)
 $D = 1^\circ 16' 24''$
 $R = 4,500.00'$
 $T = 2,606.15'$
 $L = 4,724.48'$
 $E = 700.19'$
 PC STA 659+43.10
 PT STA 706+67.58

FILE NAME W:\Transportation\2891\Grading Plans\2891\ROWPlan04.dgn	USER NAME = jdeen	DESIGNED -	REVISED - 02/2012
		DRAWN - DJH	REVISED - 05/2012
	PLOT SCALE = 200.00' / IN.	CHECKED - JWD	REVISED -
	PLOT DATE = 12/12/2012	DATE - 05/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

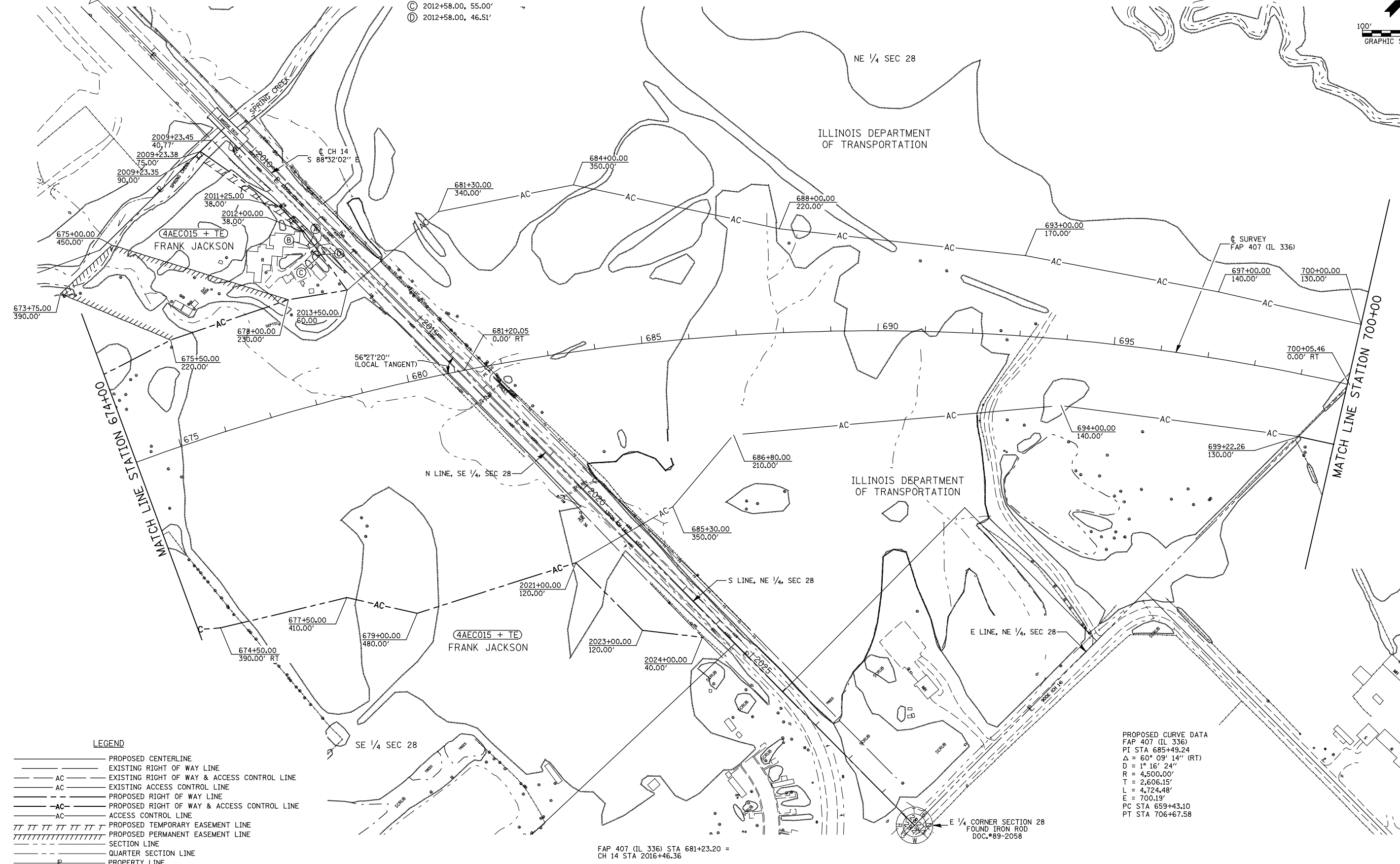
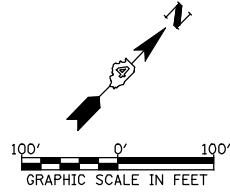
RIGHT OF WAY PLANS

SCALE: 1" = 100'	PROJECT SHEET NO. 4 OF 15 SHEETS	JOB NO. R-94-004-11 STA. 646+00 TO STA. 674+00	F.A.P. RTE. 407	SECTION (55-3)A	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 245
			CONTRACT NO. 68A42				
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CENTER SECTION 28
FOUND R.R. SPIKE
DOC. #05-2821

- (A) 2012+23.00, 41.37'
- (B) 2012+23.00, 55.00'
- (C) 2012+58.00, 55.00'
- (D) 2012+58.00, 46.51'

SEC 28, T 6 N, R 3 W, 4th PM



LEGEND

- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- AC — EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
- AC — EXISTING ACCESS CONTROL LINE
- PROPOSED RIGHT OF WAY LINE
- AC — PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
- AC — ACCESS CONTROL LINE
- TTTTTTTTTTT PROPOSED TEMPORARY EASEMENT LINE
- TTTTTTTTTTT PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- PROPERTY LINE

PROPOSED CURVE DATA
FAP 407 (IL 336)
PI STA 685+49.24
Δ = 60° 09' 14'' (RT)
D = 1° 16' 24''
R = 4,500.00'
T = 2,606.15'
L = 4,724.48'
E = 700.19'
PC STA 659+43.10
PT STA 706+67.58

FAP 407 (IL 336) STA 681+23.20 =
CH 14 STA 2016+46.36

FILE NAME W:\Transportation\2891\Grading Plans\2891\ROWPlan05.dgn	USER NAME = jdeen	DESIGNED -	REVISED - 02/2012
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

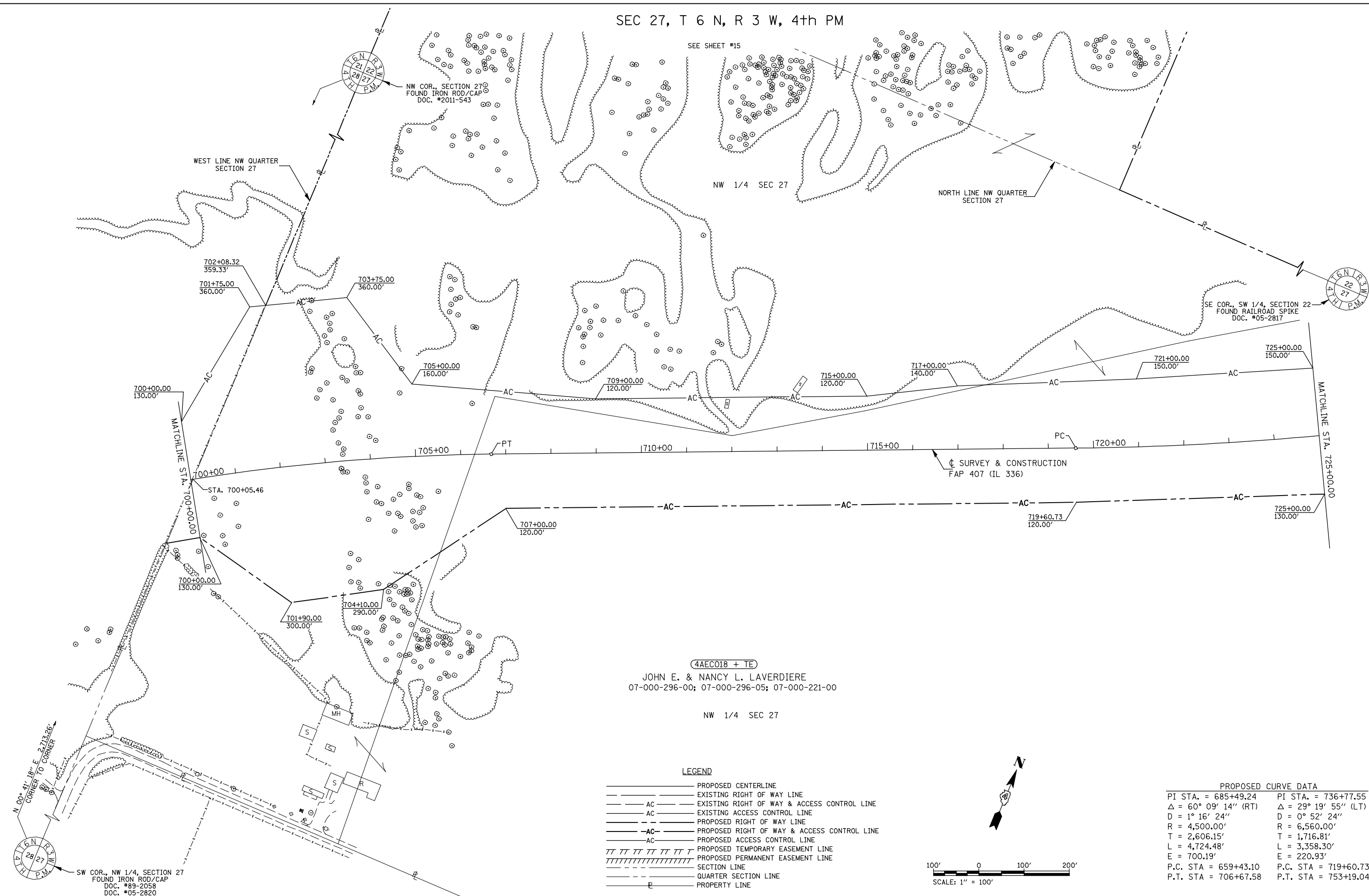
RIGHT OF WAY PLANS		
SCALE: 1" = 100'	PROJECT SHEET NO. 5 OF 15 SHEETS	JOB NO. R-94-004-11 STA. 674+00 TO STA. 700+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	246
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 68A42

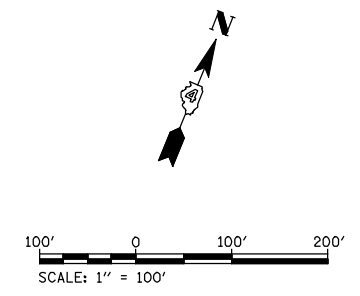
SEC 27, T 6 N, R 3 W, 4th PM

SEE SHEET #15



(4AEC018 + TE)
 JOHN E. & NANCY L. LAVERDIERE
 07-000-296-00; 07-000-296-05; 07-000-221-00
 NW 1/4 SEC 27

- LEGEND**
- PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - AC — EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — EXISTING ACCESS CONTROL LINE
 - AC — PROPOSED RIGHT OF WAY LINE
 - AC — PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — PROPOSED ACCESS CONTROL LINE
 - AC — PROPOSED TEMPORARY EASEMENT LINE
 - AC — PROPOSED PERMANENT EASEMENT LINE
 - SECTION LINE
 - QUARTER SECTION LINE
 - PROPERTY LINE



PROPOSED CURVE DATA

PI STA. = 685+49.24	PI STA. = 736+77.55
$\Delta = 60^\circ 09' 14''$ (RT)	$\Delta = 29^\circ 19' 55''$ (LT)
D = 1° 16' 24"	D = 0° 52' 24"
R = 4,500.00'	R = 6,560.00'
T = 2,606.15'	T = 1,716.81'
L = 4,724.48'	L = 3,358.30'
E = 700.19'	E = 220.93'
P.C. STA = 659+43.10	P.C. STA = 719+60.73
P.T. STA = 706+67.58	P.T. STA = 753+19.04

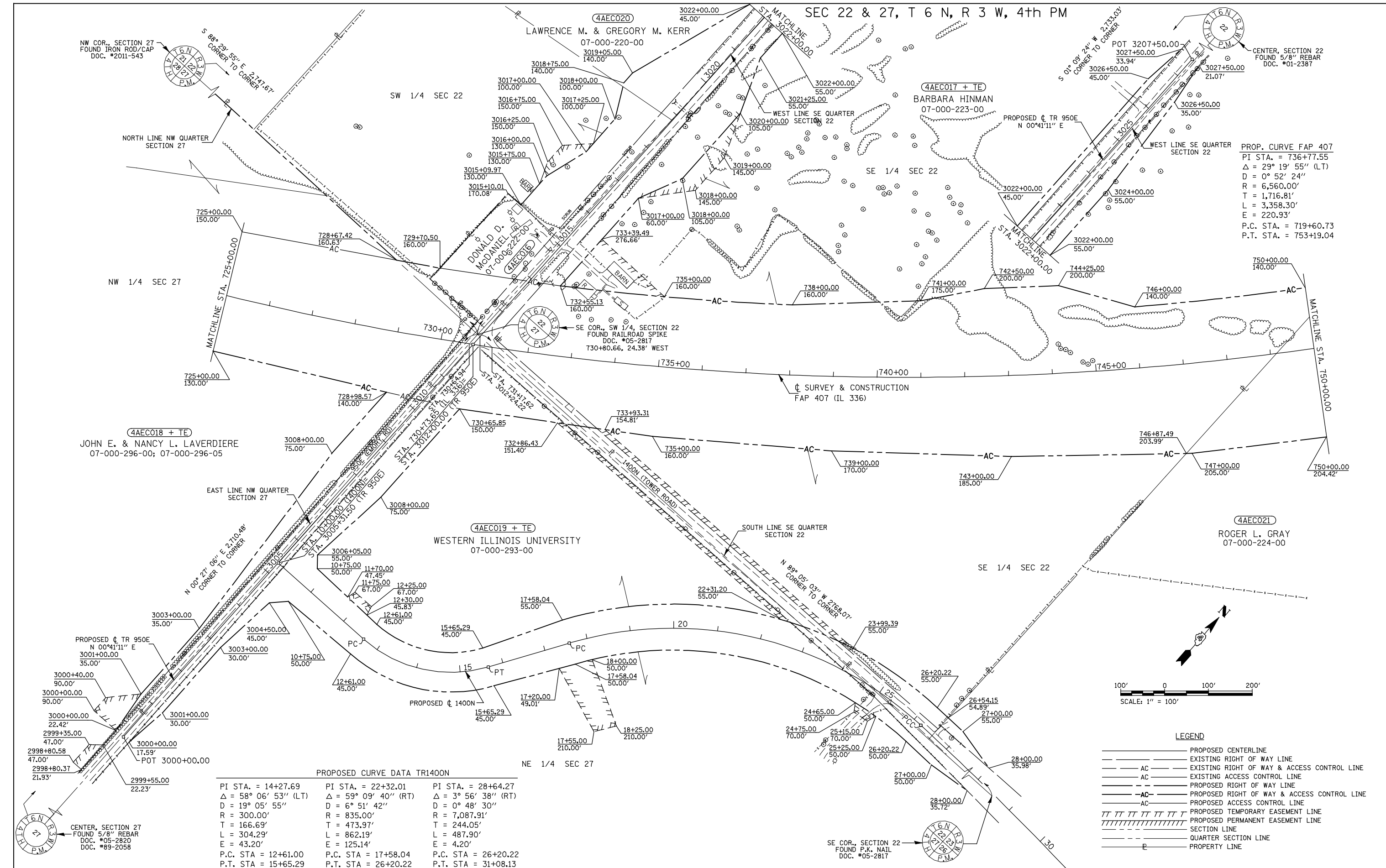
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PLOT SCALE = 200.0000' / IN.	DRAWN - DJH	CHECKED - JWD	REVISED - 05/2012
PLOT DATE = 12/12/2012	DATE - 05/2012		REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS

PROJECT	JOB NO. R-94-004-11
SHEET NO. 6 OF 15 SHEETS	STA. 700+00.00 TO STA. 725+00.00

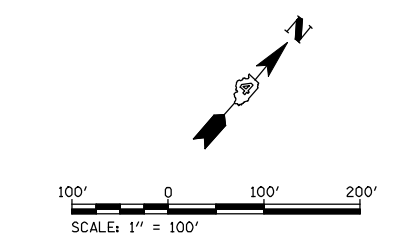
F.A.P. RTE. 407	SECTION (55-3)A	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 247
SCALE: 1" = 100'		FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT CONTRACT NO. 68A42	



PROP. CURVE FAP 407
 PI STA. = 736+77.55
 $\Delta = 29^\circ 19' 55''$ (LT)
 $D = 0^\circ 52' 24''$
 $R = 6,560.00'$
 $T = 1,716.81'$
 $L = 3,358.30'$
 $E = 220.93'$
 P.C. STA. = 719+60.73
 P.T. STA. = 753+19.04

PROPOSED CURVE DATA TR1400N

PI STA. = 14+27.69	PI STA. = 22+32.01	PI STA. = 28+64.27
$\Delta = 58^\circ 06' 53''$ (LT)	$\Delta = 59^\circ 09' 40''$ (RT)	$\Delta = 3^\circ 56' 38''$ (RT)
$D = 19^\circ 05' 55''$	$D = 6^\circ 51' 42''$	$D = 0^\circ 48' 30''$
$R = 300.00'$	$R = 835.00'$	$R = 7,087.91'$
$T = 166.69'$	$T = 473.97'$	$T = 244.05'$
$L = 304.29'$	$L = 862.19'$	$L = 487.90'$
$E = 43.20'$	$E = 125.14'$	$E = 4.20'$
P.C. STA = 12+61.00	P.C. STA = 17+58.04	P.C. STA = 26+20.22
P.T. STA = 15+65.29	P.T. STA = 26+20.22	P.T. STA = 31+08.13



LEGEND

	PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE
	EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
	EXISTING ACCESS CONTROL LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
	PROPOSED ACCESS CONTROL LINE
	PROPOSED TEMPORARY EASEMENT LINE
	PROPOSED PERMANENT EASEMENT LINE
	SECTION LINE
	QUARTER SECTION LINE
	PROPERTY LINE

FILE NAME W:\Transportation\2891\Grading Plans\2891R0WPlan07.dgn	USER NAME = jdeen	DESIGNED -	REVISED - 02/2012
PLOT SCALE = 200.0000' / IN.	CHECKED - DJH	REVISOR -	REVISED - 02/2012
PLOT DATE = 12/12/2012	DATE - 05/2012	REVISOR -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS

PROJECT	JOB NO. R-94-004-11
SHEET NO. 7 OF 15 SHEETS	STA. 725+00 TO STA. 750+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	248
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 68A42		

SEC 22 & 23, T 6 N, R 3 W, 4th PM

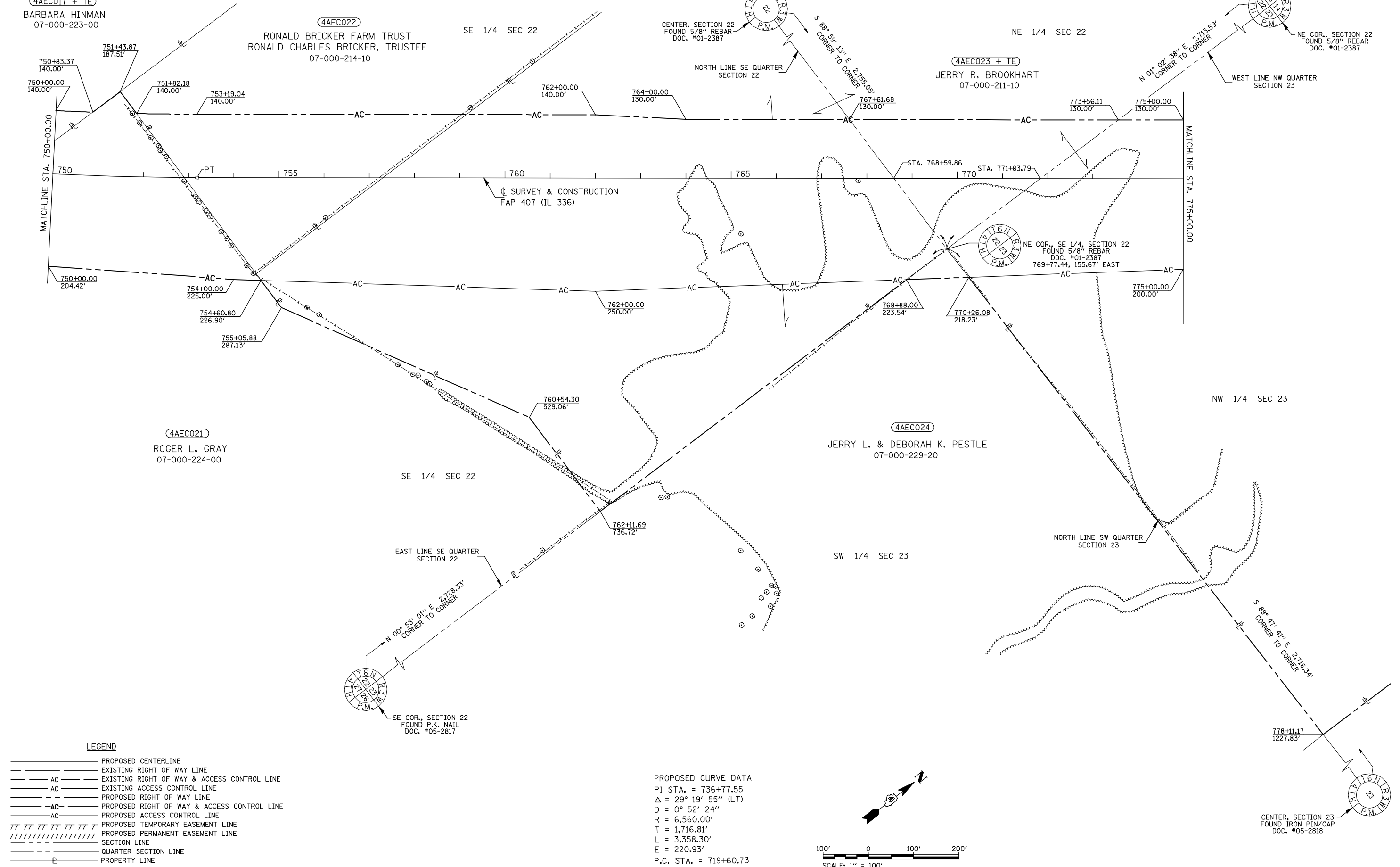
4AEC017 + TE
BARBARA HINMAN
07-000-223-00

4AEC022
RONALD BRICKER FARM TRUST
RONALD CHARLES BRICKER, TRUSTEE
07-000-214-10

4AEC023 + TE
JERRY R. BROOKHART
07-000-211-10

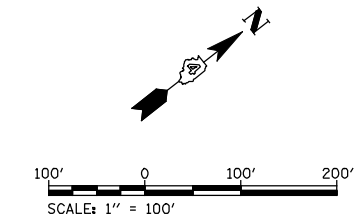
4AEC021
ROGER L. GRAY
07-000-224-00

4AEC024
JERRY L. & DEBORAH K. PESTLE
07-000-229-20



- LEGEND**
- PROPOSED CENTERLINE
 - - - EXISTING RIGHT OF WAY LINE
 - - - AC - - - EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
 - - - AC - - - EXISTING ACCESS CONTROL LINE
 - - - PROPOSED RIGHT OF WAY LINE
 - - - AC - - - PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
 - - - AC - - - PROPOSED ACCESS CONTROL LINE
 - - - PROPOSED TEMPORARY EASEMENT LINE
 - - - PROPOSED PERMANENT EASEMENT LINE
 - - - SECTION LINE
 - - - QUARTER SECTION LINE
 - - - PROPERTY LINE

PROPOSED CURVE DATA
 PI STA. = 736+77.55
 Δ = 29° 19' 55" (LT)
 D = 0° 52' 24"
 R = 6,560.00'
 T = 1,716.81'
 L = 3,358.30'
 E = 220.93'
 P.C. STA. = 719+60.73
 P.T. STA. = 753+19.04



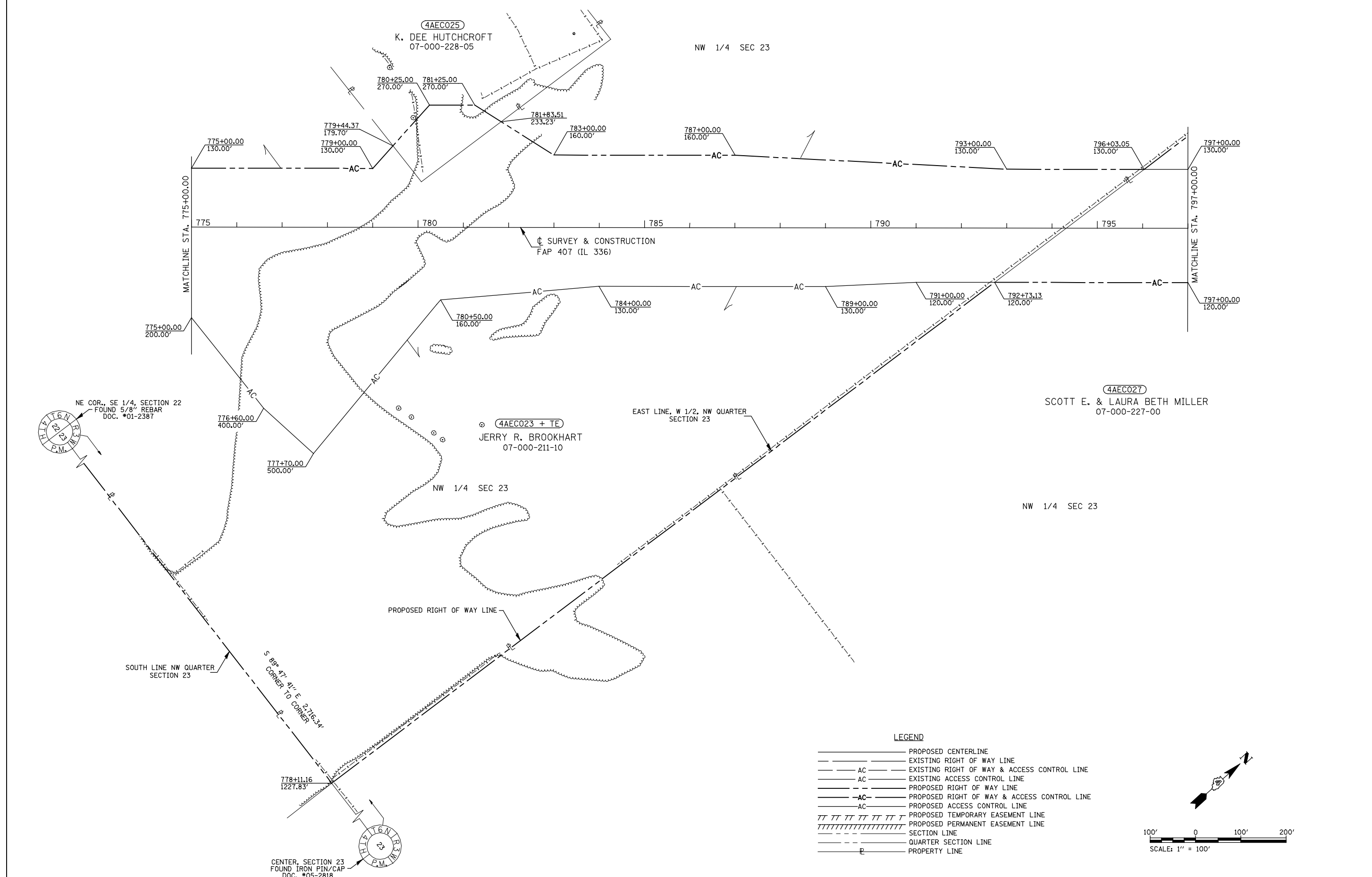
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	PLOT DATE = 12/12/2012	DATE - 05/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS		
PROJECT	JOB NO. R-94-004-11	
SCALE: 1" = 100'	SHEET NO. 8 OF 15 SHEETS	STA. 750+00.00 TO STA. 775+00.00

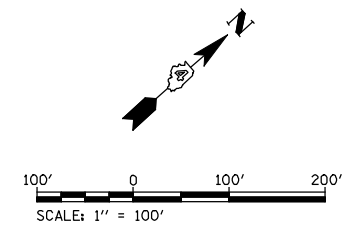
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	249
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68A42	

SEC 23, T 6 N, R 3 W, 4th PM



LEGEND

—————	PROPOSED CENTERLINE
—————	EXISTING RIGHT OF WAY LINE
—————	EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
—————	EXISTING ACCESS CONTROL LINE
—————	PROPOSED RIGHT OF WAY LINE
—————	PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
—————	PROPOSED ACCESS CONTROL LINE
	PROPOSED TEMPORARY EASEMENT LINE
	PROPOSED PERMANENT EASEMENT LINE
—————	SECTION LINE
—————	QUARTER SECTION LINE
—————	PROPERTY LINE

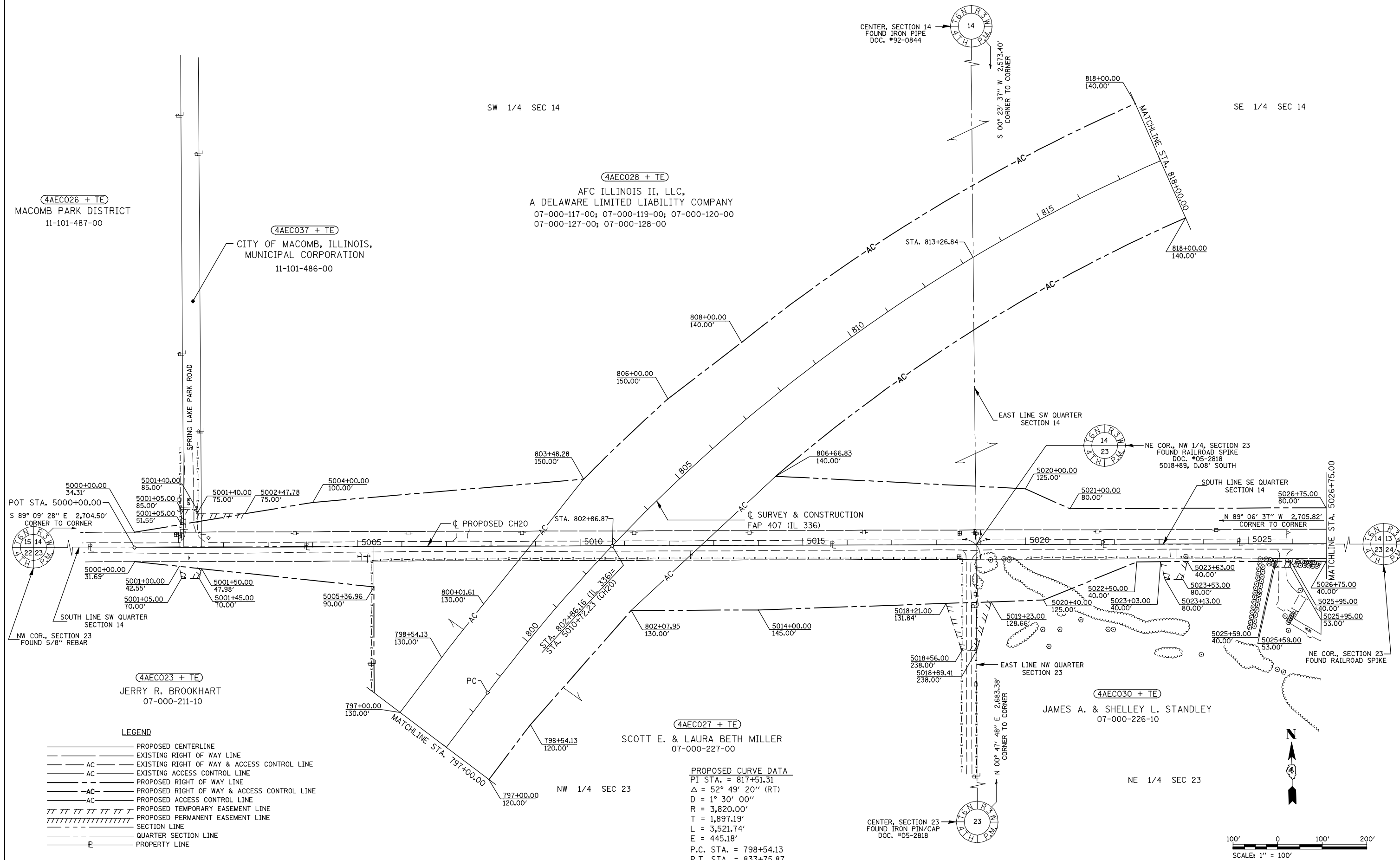


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PLOT DATE = 12/12/2012	DATE - 05/2012	REVISIONS -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1" = 100'	PROJECT	JOB NO. R-94-004-11	407	(55-3)A	McDONOUGH	671	250
	SHEET NO. 9 OF 15 SHEETS	STA. 775+00.00 TO STA. 797+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 68A42	

SEC 14 & 23, T 6 N, R 3 W, 4th PM



4AEC026 + TE
MACOMB PARK DISTRICT
11-101-487-00

4AEC037 + TE
CITY OF MACOMB, ILLINOIS,
MUNICIPAL CORPORATION
11-101-486-00

4AEC028 + TE
AFC ILLINOIS II, LLC,
A DELAWARE LIMITED LIABILITY COMPANY
07-000-117-00; 07-000-119-00; 07-000-120-00
07-000-127-00; 07-000-128-00

4AEC023 + TE
JERRY R. BROOKHART
07-000-211-10

4AEC027 + TE
SCOTT E. & LAURA BETH MILLER
07-000-227-00

4AEC030 + TE
JAMES A. & SHELLEY L. STANDLEY
07-000-226-10

PROPOSED CURVE DATA
PI STA. = 817+51.31
 $\Delta = 52^\circ 49' 20''$ (RT)
D = $1^\circ 30' 00''$
R = 3,820.00'
T = 1,897.19'
L = 3,521.74'
E = 445.18'
P.C. STA. = 798+54.13
P.T. STA. = 833+75.87

- LEGEND
- PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - AC — EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — EXISTING ACCESS CONTROL LINE
 - — PROPOSED RIGHT OF WAY LINE
 - AC — PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — PROPOSED ACCESS CONTROL LINE
 - — PROPOSED TEMPORARY EASEMENT LINE
 - — PROPOSED PERMANENT EASEMENT LINE
 - — SECTION LINE
 - — QUARTER SECTION LINE
 - — PROPERTY LINE

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		DRAWN - DJH	REVISED - 05/2012
		CHECKED - JWD	REVISED -
		DATE - 05/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS	
PROJECT	JOB NO. R-94-004-11
SCALE: 1" = 100'	SHEET NO. 10 OF 15 SHEETS
	STA. 797+00.00 TO STA. 818+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	251
CONTRACT NO. 68A42		ILLINOIS FED. AID PROJECT		

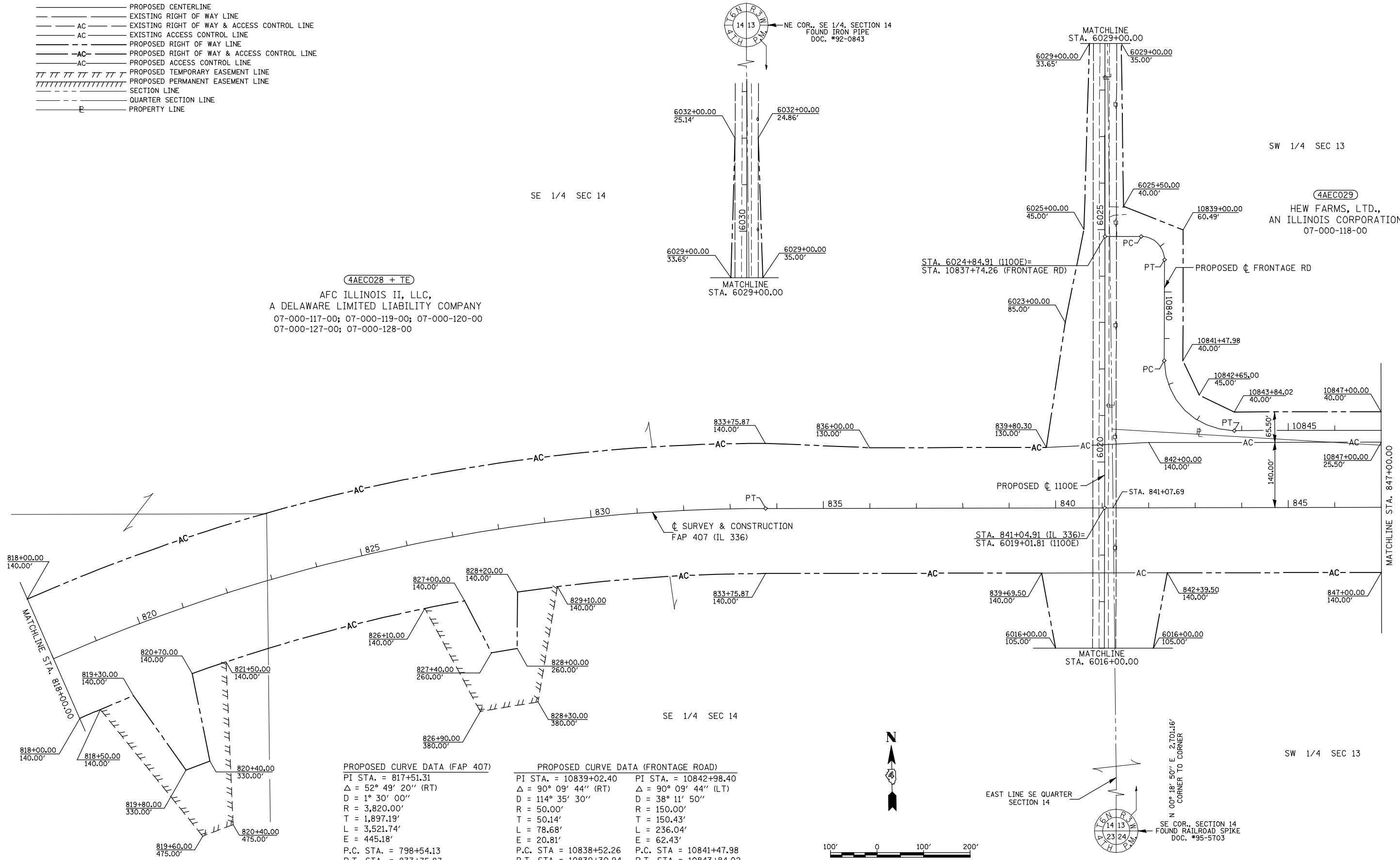
SEC 13 & 14, T 6 N, R 3 W, 4th PM

LEGEND

- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- AC — EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
- AC — EXISTING ACCESS CONTROL LINE
- PROPOSED RIGHT OF WAY LINE
- AC — PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- ||||| PROPOSED TEMPORARY EASEMENT LINE
- ||||| PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- P — PROPERTY LINE

4AEC028 + TE
 AFC ILLINOIS II, LLC,
 A DELAWARE LIMITED LIABILITY COMPANY
 07-000-117-00; 07-000-119-00; 07-000-120-00
 07-000-127-00; 07-000-128-00

SW 1/4 SEC 13
 4AEC029
 HEW FARMS, LTD.,
 AN ILLINOIS CORPORATION
 07-000-118-00



PROPOSED CURVE DATA (FAP 407)
 PI STA. = 817+51.31
 $\Delta = 52^\circ 49' 20''$ (RT)
 $D = 1^\circ 30' 00''$
 $R = 3,820.00'$
 $T = 1,897.19'$
 $L = 3,521.74'$
 $E = 445.18'$
 P.C. STA. = 798+54.13
 P.T. STA. = 833+75.87

PROPOSED CURVE DATA (FRONTAGE ROAD)
 PI STA. = 10839+02.40
 $\Delta = 90^\circ 09' 44''$ (RT)
 $D = 114^\circ 35' 30''$
 $R = 50.00'$
 $T = 50.14'$
 $L = 78.68'$
 $E = 20.81'$
 P.C. STA. = 10838+52.26
 P.T. STA. = 10839+30.94

PI STA. = 10842+98.40
 $\Delta = 90^\circ 09' 44''$ (LT)
 $D = 38^\circ 11' 50''$
 $R = 150.00'$
 $T = 150.43'$
 $L = 236.04'$
 $E = 62.43'$
 P.C. STA. = 10841+47.98
 P.T. STA. = 10843+84.02

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PLOT DATE = 12/12/2012	DATE - 05/2012		REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS		
PROJECT	JOB NO. R-94-004-11	SCALE: 1" = 100'
SHEET NO. 11 OF 15 SHEETS	STA. 818+00.00 TO STA. 847+00.00	

F.A.P. RTE. 407	SECTION (55-3)A	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 252
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

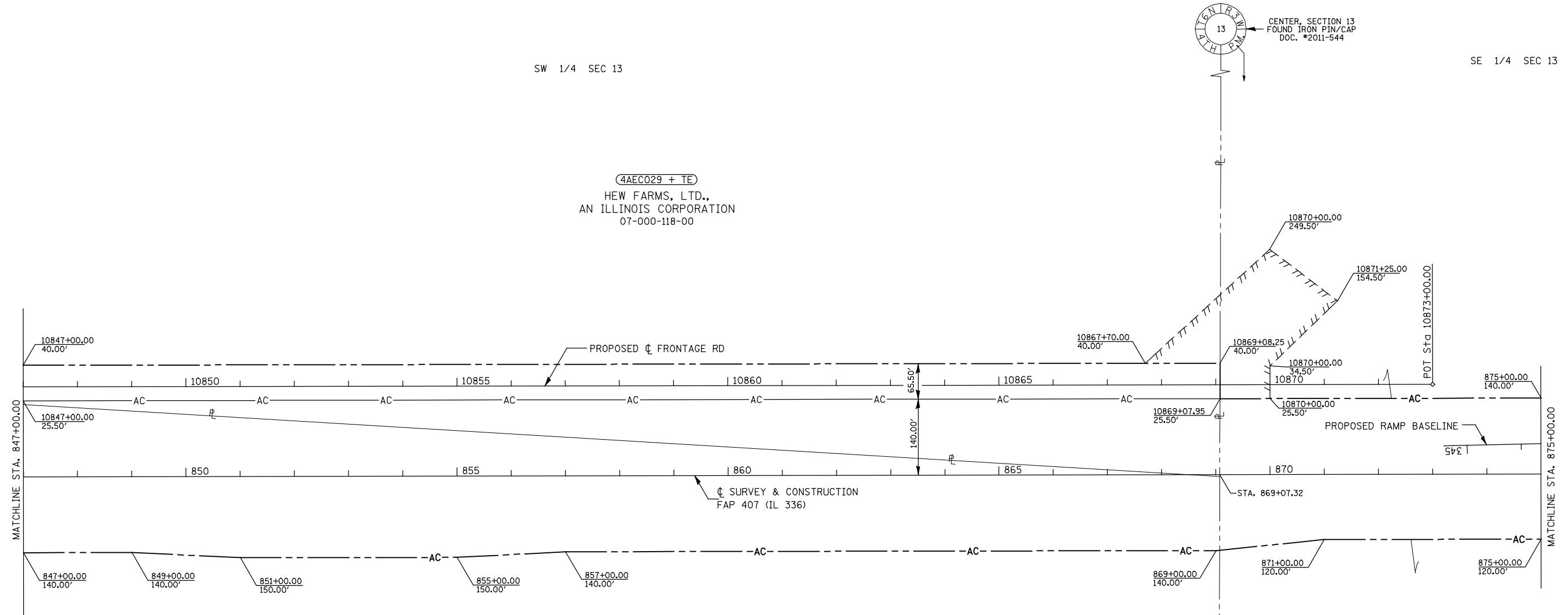
SEC 13, T 6 N, R 3 W, 4th PM

SW 1/4 SEC 13

SE 1/4 SEC 13

4AEC029 + TE
HEW FARMS, LTD.,
AN ILLINOIS CORPORATION
07-000-118-00

4AEC028 + TE
AFC ILLINOIS II, LLC,
A DELAWARE LIMITED LIABILITY COMPANY
07-000-117-00; 07-000-119-00; 07-000-120-00
07-000-127-00; 07-000-128-00

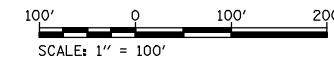


LEGEND

- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- AC — EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
- AC — EXISTING ACCESS CONTROL LINE
- - - PROPOSED RIGHT OF WAY LINE
- - - AC — PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
- - - AC — PROPOSED ACCESS CONTROL LINE
- /// PROPOSED TEMPORARY EASEMENT LINE
- //// PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- - - QUARTER SECTION LINE
- P — PROPERTY LINE

SW 1/4 SEC 13

SE 1/4 SEC 13



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	PLOT DATE = 12/12/2012	DATE - 05/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1" = 100'	PROJECT	JOB NO. R-94-004-11	407	(55-3)A	McDONOUGH	671	253
	SHEET NO. 12 OF 15 SHEETS	STA. 847+00.00 TO STA. 875+00.00	CONTRACT NO. 68A42				
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SEC 13, T 6 N, R 3 W, 4th PM

PROPOSED CURVE DATA (RAMPS)

PI STA. = 324+77.74	PI STA. = 331+58.47
$\Delta = 35^\circ 32' 28''$ (LT)	$\Delta = 36^\circ 15' 54''$ (RT)
D = 11° 26' 11"	D = 7° 29' 23"
R = 501.00'	R = 765.00'
T = 160.57'	T = 250.52'
L = 310.77'	L = 484.20'
E = 25.10'	E = 39.98'
P.C. STA = 323+17.18	P.C. STA = 329+07.95
P.T. STA = 326+27.95	P.T. STA = 333+92.15

PI STA. = 210+51.11	PI STA. = 216+92.54
$\Delta = 36^\circ 19' 57''$ (RT)	$\Delta = 41^\circ 15' 36''$ (LT)
D = 7° 29' 23"	D = 16° 05' 40"
R = 765.00'	R = 356.00'
T = 251.02'	T = 134.02'
L = 485.10'	L = 256.36'
E = 40.13'	E = 24.39'
P.C. STA = 208+00.09	P.C. STA = 215+58.52
P.T. STA = 212+85.19	P.T. STA = 218+14.88

SE 1/4 SEC 13

SW 1/4 SEC 13

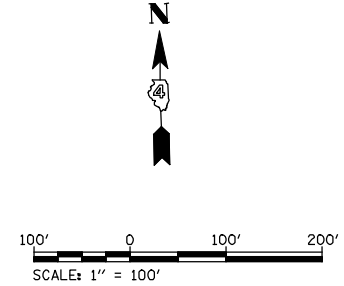
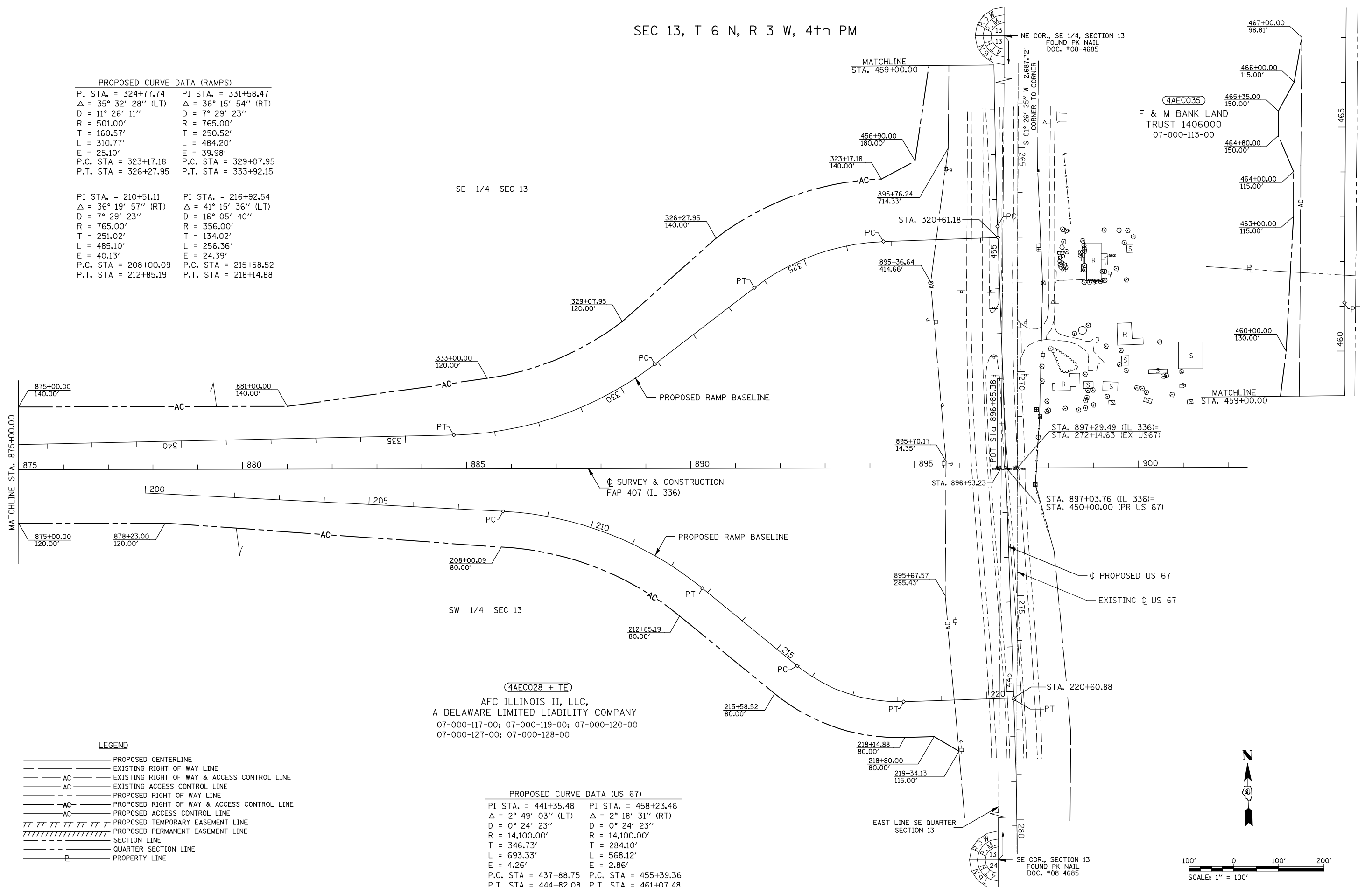
4AEC028 + TE
 AFC ILLINOIS II, LLC,
 A DELAWARE LIMITED LIABILITY COMPANY
 07-000-117-00; 07-000-119-00; 07-000-120-00
 07-000-127-00; 07-000-128-00

PROPOSED CURVE DATA (US 67)

PI STA. = 441+35.48	PI STA. = 458+23.46
$\Delta = 2^\circ 49' 03''$ (LT)	$\Delta = 2^\circ 18' 31''$ (RT)
D = 0° 24' 23"	D = 0° 24' 23"
R = 14,100.00'	R = 14,100.00'
T = 346.73'	T = 284.10'
L = 693.33'	L = 568.12'
E = 4.26'	E = 2.86'
P.C. STA = 437+88.75	P.C. STA = 455+39.36
P.T. STA = 444+82.08	P.T. STA = 461+07.48

LEGEND

- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- AC — EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
- AC — EXISTING ACCESS CONTROL LINE
- PROPOSED RIGHT OF WAY LINE
- AC — PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- TTTTTTTTTTT PROPOSED TEMPORARY EASEMENT LINE
- TTTTTTTTTTTTT PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- E — PROPERTY LINE



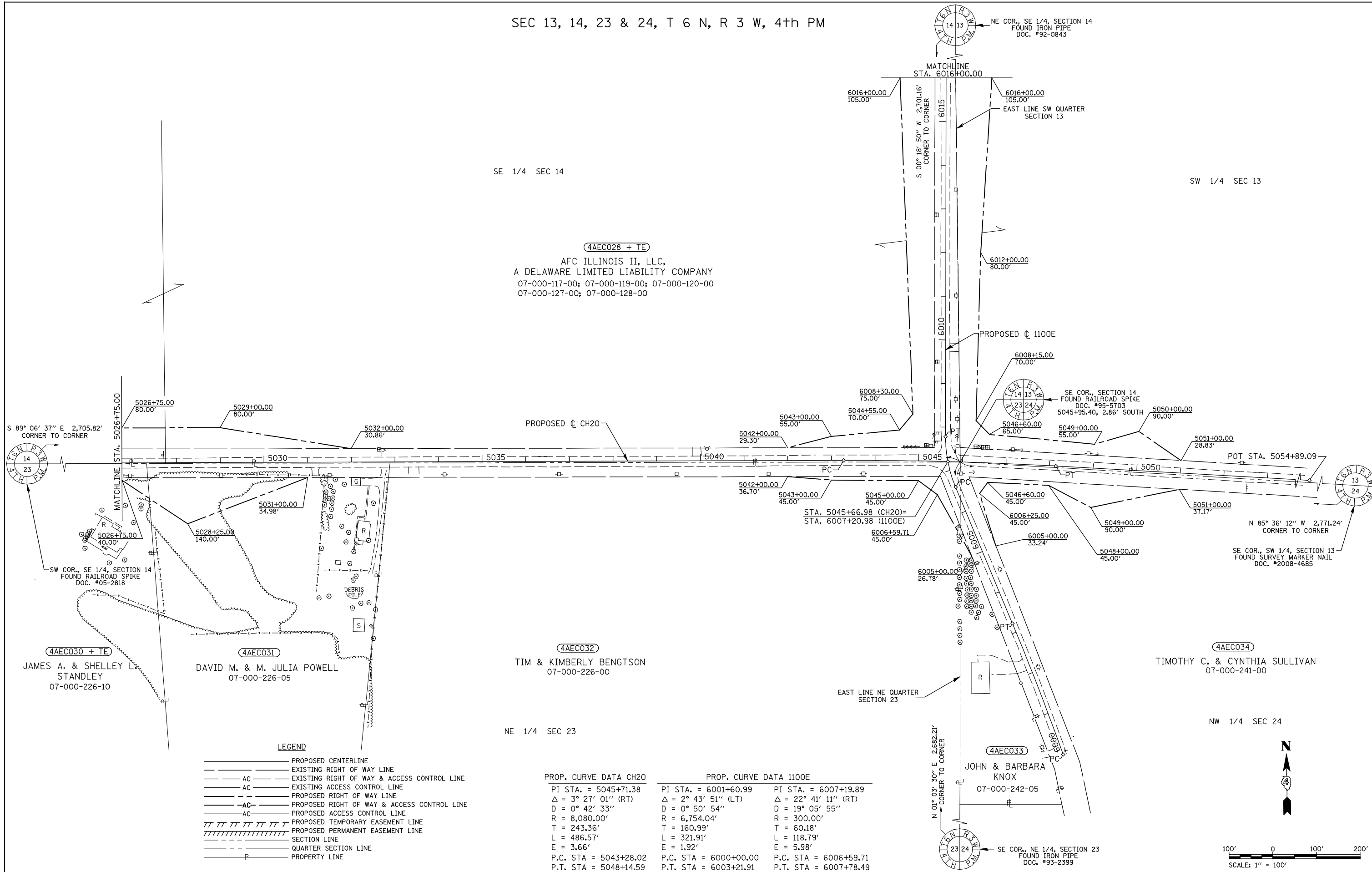
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		CHECKED - JWD	REVISED -
		DATE - 05/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

PROJECT	JOB NO. R-94-004-11	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1" = 100'	SHEET NO. 13 OF 15 SHEETS	407	(55-3)A	McDONOUGH	671	254
	STA. 875+00.00 TO STA. 900+00.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 68A42		

SEC 13, 14, 23 & 24, T 6 N, R 3 W, 4th PM



SE 1/4 SEC 14

SW 1/4 SEC 13

4AEC028 + TE
 AFC ILLINOIS II, LLC,
 A DELAWARE LIMITED LIABILITY COMPANY
 07-000-117-00; 07-000-119-00; 07-000-120-00
 07-000-127-00; 07-000-128-00

4AEC030 + TE
 JAMES A. & SHELLEY L.
 STANDLEY
 07-000-226-10

4AEC031
 DAVID M. & M. JULIA POWELL
 07-000-226-05

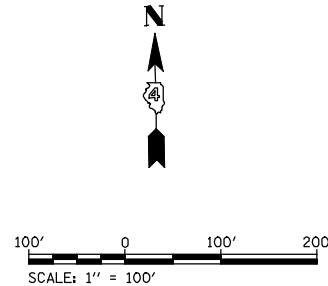
4AEC032
 TIM & KIMBERLY BENGTSON
 07-000-226-00

4AEC034
 TIMOTHY C. & CYNTHIA SULLIVAN
 07-000-241-00

4AEC033
 JOHN & BARBARA
 KNOX
 07-000-242-05

- LEGEND**
- PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - AC — EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — EXISTING ACCESS CONTROL LINE
 - — PROPOSED RIGHT OF WAY LINE
 - AC — PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
 - AC — PROPOSED ACCESS CONTROL LINE
 - /// /// /// /// /// PROPOSED TEMPORARY EASEMENT LINE
 - //// //// //// //// //// PROPOSED PERMANENT EASEMENT LINE
 - - - - SECTION LINE
 - - - QUARTER SECTION LINE
 - — — — — PROPERTY LINE

PROP. CURVE DATA CH20		PROP. CURVE DATA 1100E		
PI STA. = 5045+71.38	PI STA. = 6001+60.99	PI STA. = 6007+19.89		
$\Delta = 3^\circ 27' 01''$ (RT)	$\Delta = 2^\circ 43' 51''$ (LT)	$\Delta = 22^\circ 41' 11''$ (RT)		
D = $0^\circ 42' 33''$	D = $0^\circ 50' 54''$	D = $19^\circ 05' 55''$		
R = 8,080.00'	R = 6,754.04'	R = 300.00'		
T = 243.36'	T = 160.99'	T = 60.18'		
L = 486.57'	L = 321.91'	L = 118.79'		
E = 3.66'	E = 1.92'	E = 5.98'		
P.C. STA = 5043+28.02	P.C. STA = 6000+00.00	P.C. STA = 6006+59.71		
P.T. STA = 5048+14.59	P.T. STA = 6003+21.91	P.T. STA = 6007+78.49		



FILE NAME	USER NAME = jdeen	DESIGNED -	REVISED - 05/2012
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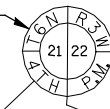
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	255
PROJECT		JOB NO. R-94-004-11		CONTRACT NO. 68A42
SCALE: 1" = 100'	SHEET NO. 14 OF 15 SHEETS	STA. 5026+75 TO STA. 5051+00 (CH20)		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SEC 22, T 6 N, R 3 W, 4th PM

NW COR., SW 1/4, SECTION 22
FOUND IRON ROD/CAP
DOC. #



N 00° 48' 27" E 2,699.03'
CORNER TO CORNER



N 00° 41' 18" E 2,713.26'
CORNER TO CORNER



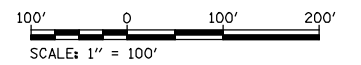
NW COR., SECTION 27
FOUND IRON ROD/CAP
DOC. #2011-543

SW COR., NW 1/4, SECTION 27
FOUND IRON ROD/CAP
DOC. #89-2058
DOC. #05-2820

4AEC018 + TE
JOHN E. & NANCY L. LAVERDIERE
07-000-296-00; 07-000-296-05; 07-000-221-00

PROPOSED CURVE DATA

PI STA. = 685+49.24	PI STA. = 736+77.55
Δ = 60° 09' 14" (RT)	Δ = 29° 19' 55" (LT)
D = 1° 16' 24"	D = 0° 52' 24"
R = 4,500.00'	R = 6,560.00'
T = 2,606.15'	T = 1,716.81'
L = 4,724.48'	L = 3,358.30'
E = 700.19'	E = 220.93'
P.C. STA = 659+43.10	P.C. STA = 719+60.73
P.T. STA = 706+67.58	P.T. STA = 753+19.04



LEGEND

	PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE
	EXISTING RIGHT OF WAY & ACCESS CONTROL LINE
	EXISTING ACCESS CONTROL LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY & ACCESS CONTROL LINE
	PROPOSED ACCESS CONTROL LINE
	PROPOSED TEMPORARY EASEMENT LINE
	PROPOSED PERMANENT EASEMENT LINE
	SECTION LINE
	QUARTER SECTION LINE
	PROPERTY LINE

FILE NAME W:\Transportation\2891\Grading Plans\2891ROWPlan15.dgn	USER NAME = jdeen	DESIGNED -	REVISED - 02/2012
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		CHECKED - JWD	REVISED -
		DATE - 05/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

PROJECT	JOB NO. R-94-004-11
SCALE: 1" = 100'	SHEET NO. 15 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	256
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68A42	

Bench Mark: BM HEI 28
 R.R. spike in ±26" maple tree,
 S. side of E. Lamoine River
 Sta ±582+90, ±50.0' Lt
 Elev 580.91

Existing Structure: None

Bridge Omission Sta 580+04.30 to Sta 586+57.20 (SN 055-0046 & 0047)

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications
 6th Edition

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Structural Steel M270 Grade 50W)

SEISMIC DATA

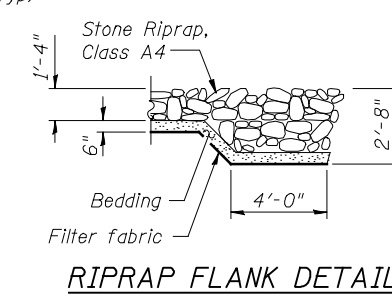
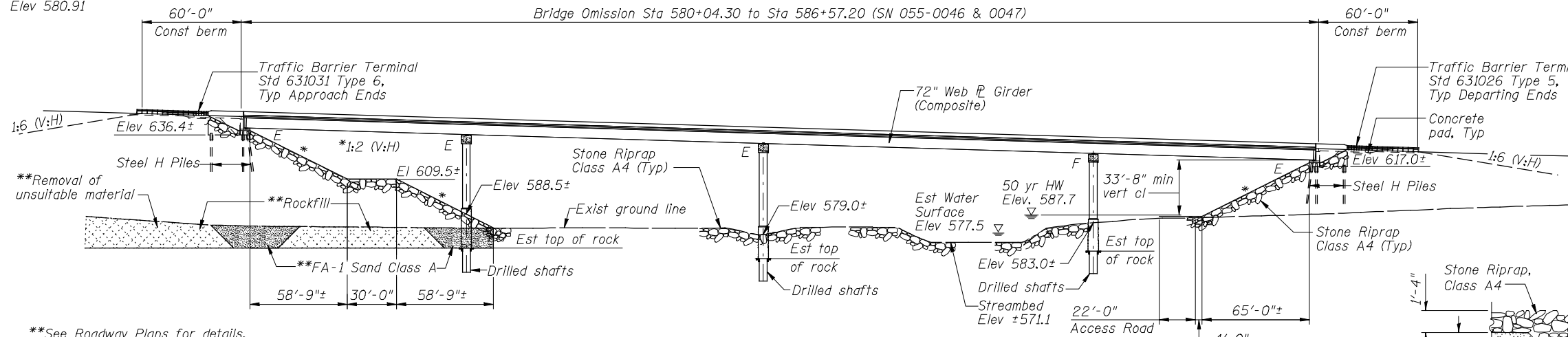
Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 Sec. (S_{d1}) = 0.08g
 Design Spectral Acceleration at 0.2 Sec. (S_{d5}) = 0.13g
 Soil Site Class = C

HIGHWAY CLASSIFICATION

FAP Rte. 407 (IL 336)
 Functional Class: Freeway
 ADT: 3045 (2015); 3715 (2035) (NB & SB)
 ADTT: 305 (2015); 370 (2035) (NB & SB)
 DHV: 10% (NB & SB)
 Design Speed: 70 m.p.h.
 Posted Speed: 65 m.p.h.
 One-Way Traffic Each Structure
 Directional Distribution: 50:50

CURVE DATA

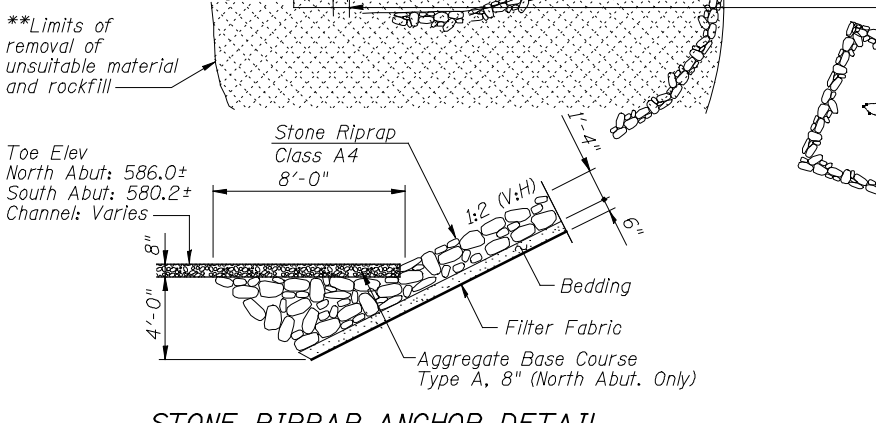
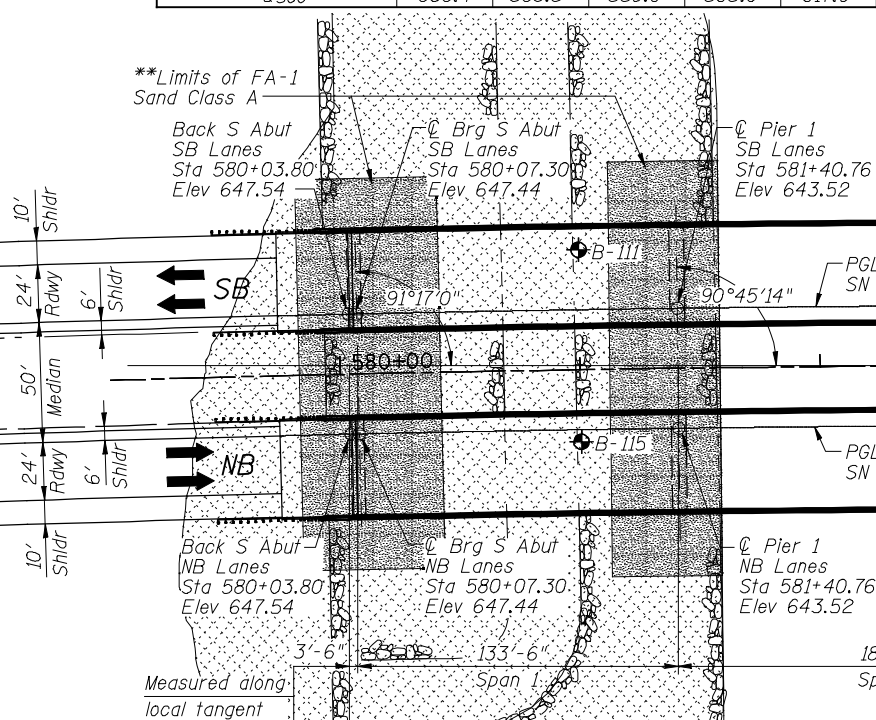
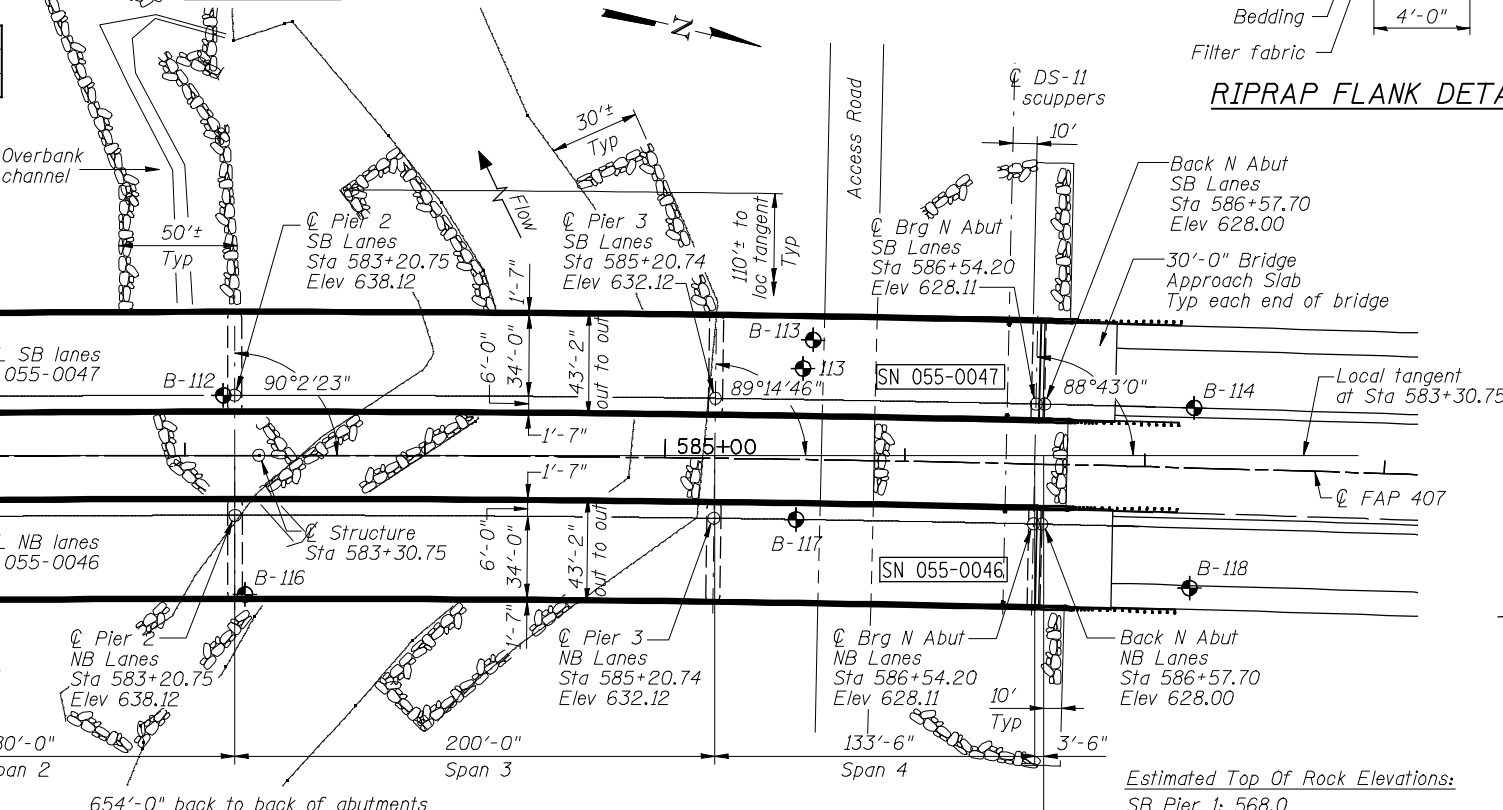
PROP. CURVE IL336-2
 PI STA. = 590+36.90
 $\Delta = 9^\circ 15' 34''$ (RT)
 $D = 0^\circ 23' 48''$
 $R = 14,440.00'$
 $T = 1,169.34'$
 $L = 2,333.59'$
 $E = 47.27'$
 P.C. STA. = 578+67.56
 P.T. STA. = 602+01.15



DESIGN SCOUR ELEVATION TABLE

Design Scour Elev. (ft.)	S Abut	Pier 1	Pier 2	Pier 3	N Abut
Q100	636.4	570.5	561.0	565.0	617.0
Q500	636.4	568.5	559.0	565.0	617.0

ELEVATION



Estimated Top Of Rock Elevations:
 SB Pier 1: 568.0
 NB Pier 1: 566.9
 SB Pier 2: 556.5
 NB Pier 2: 562.2
 SB Pier 3: 571.1
 NB Pier 3: 570.1

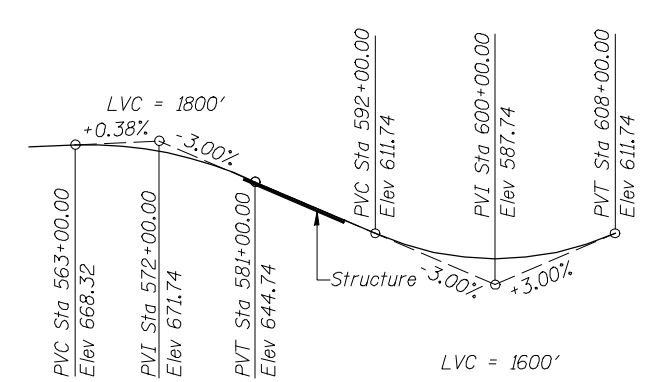
**NOT FOR CONSTRUCTION
 FOR ROADWAY REFERENCE ONLY**

WATERWAY INFORMATION

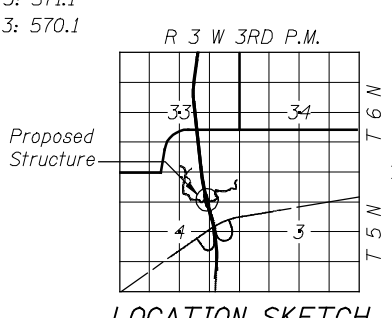
Drainage Area = 165 Sq Mi Low Grade Elev. 611.7 @ Sta. 592+00

Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El. Prop.
			Exist.	Prop.		Exist.	Prop.	
10	8,280	--	2,151	585.3	--	0.7	--	586.0
Design	50	12,700	--	3,149	587.7	--	0.8	588.5
Base	100	14,700	--	3,854	588.7	--	1.0	589.7
Max. Calc.	500	19,500	--	5,365	590.5	--	1.0	591.5

10 Year Vel. thru Exist Br = n/a 10 Year Velocity thru Prop Br = 3.9 fps

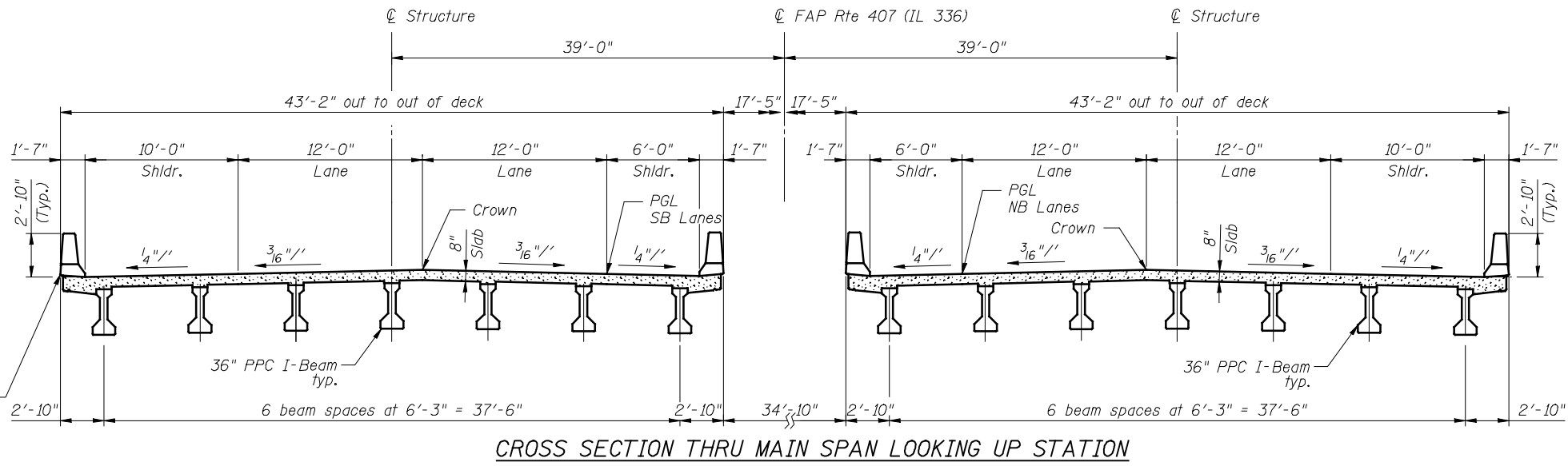
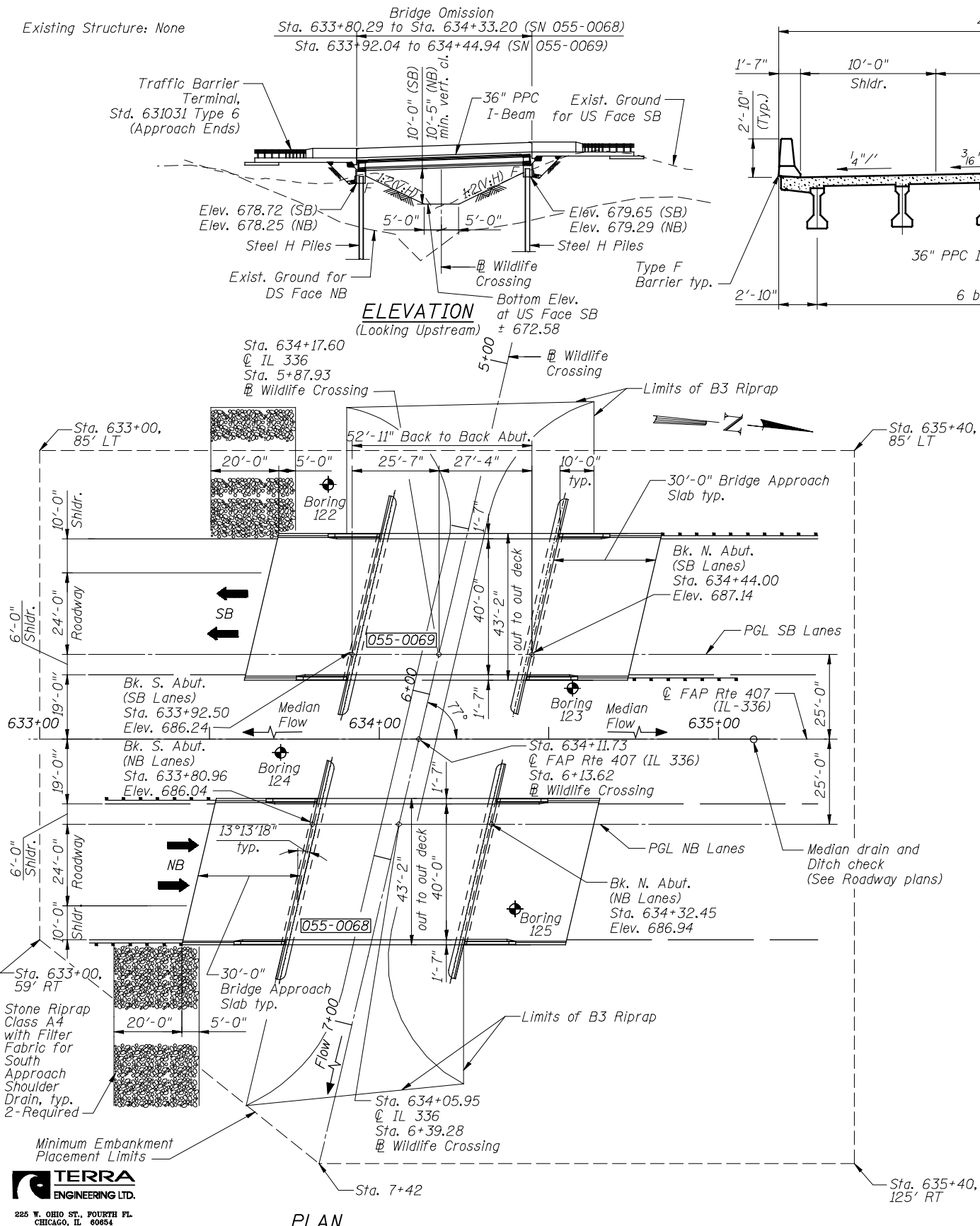


PROFILE GRADE



GENERAL PLAN AND ELEVATION
FAP ROUTE 407 OVER
EAST FORK LAMOINE RIVER
SECTION 55-3
MCDONOUGH COUNTY
STA 583+30.75
STRUCTURE NO. 055-0046 (NB)
STRUCTURE NO. 055-0047 (SB)

Bench Mark: BM HEI 14; RR Spike in a power pole on the north side of 1250N (Adams St.), located 30' LT of Sta. 1005+48, Elevation 693.68.
 Notes: 1). Drainage flows are minimal through the natural ravine that is serving as the path for the Wildlife Crossing.
 2). The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.



HIGHWAY CLASSIFICATION

F.A.P. 407 (IL 336)
 Functional Class: Freeway
 ADT: 3045 (2015); 3715 (2035)
 DHV: 305 (2015); 372 (2035)
 ADTT = 10%
 Speed: 65 m.p.h. (posted); 70 m.p.h. (design)
 Two-way traffic Directional Dist. 50:50

LOADING HL 93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications
 5th Edition with 2010 Interims

DESIGN STRESSES

FIELD UNITS

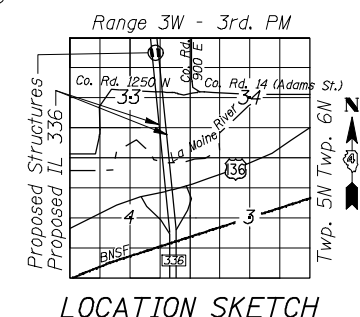
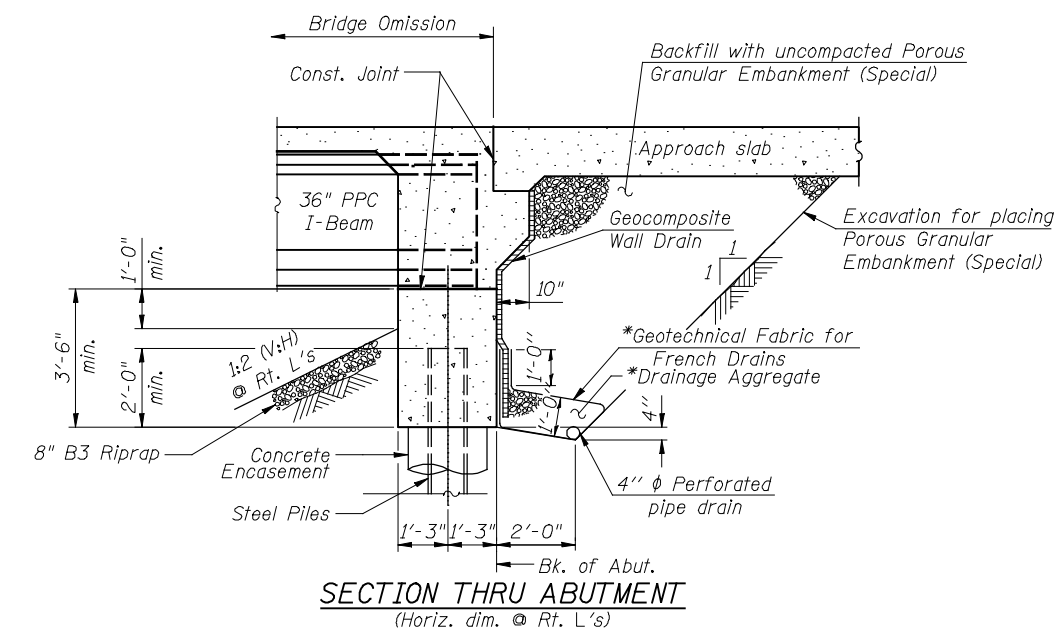
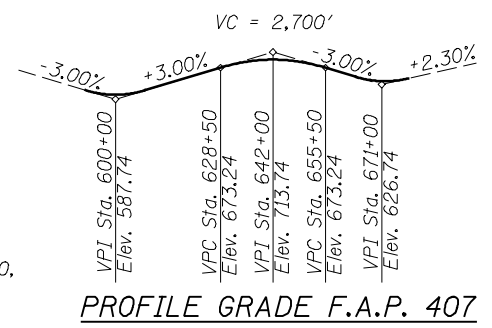
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{cl} = 5,000$ psi
 $f_{pu} = 270$ ksi ($\frac{1}{2}$ " low lax. strands)
 $f_{pbl} = 202.5$ ksi ($\frac{1}{2}$ " low lax. strand)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.11g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.17g
 Soil Site Class = D



GENERAL PLAN
 F.A.P. 407 (ILLINOIS 336)-SECTION 55-3
 OVER WILDLIFE CROSSING #1
 McDONOUGH COUNTY
 STATION 634+11.73
 STRUCTURE NO. 055-0068 (NB)
 STRUCTURE NO. 055-0069 (SB)

FILE NAME	USER NAME = jdeen	DESIGNED - OY	REVISED -
FILE		CHECKED - DA	REVISED -
	PLOT SCALE = 40.000' / IN.	DRAWN - CM	REVISED -
	PLOT DATE = 12/12/2012	CHECKED - JB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 055-0068 & 0069

SHEET NO. 1 OF 1 SHEETS

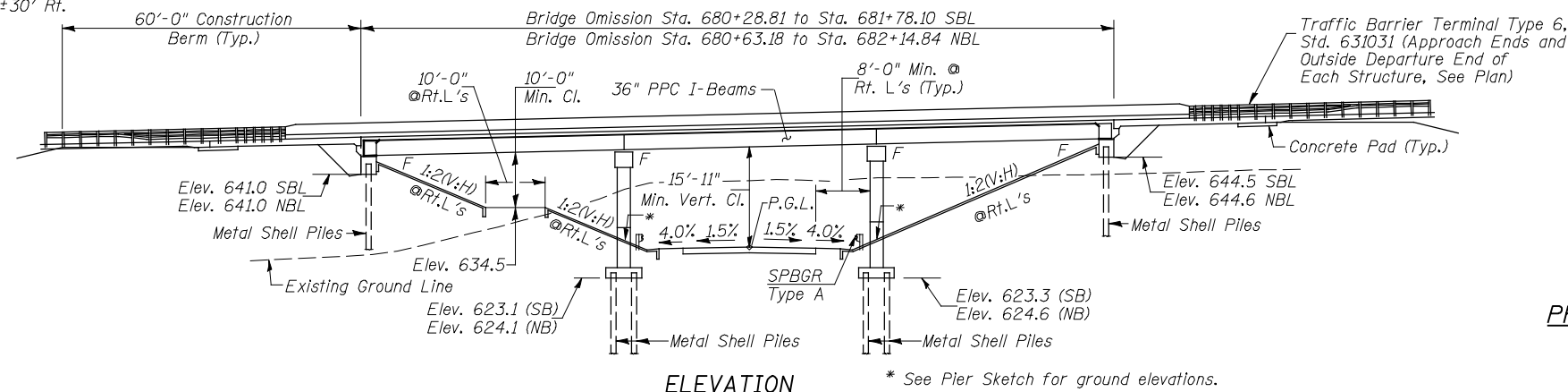
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	55-3HB-1	McDONOUGH	671	258
			CONTRACT NO. 68418	
ILLINOIS FED. AID PROJECT				

TERRA ENGINEERING LTD.
 225 W. OHIO ST., FOURTH FL.
 CHICAGO, IL 60654
 W(312)467-0125 F(312)467-0220
 www.terraengineering.com

B.M.: RR Spike in Power Pole,
CH 14 Sta. ±2020+31.50, ±30' Rt.
Elev. 645.794

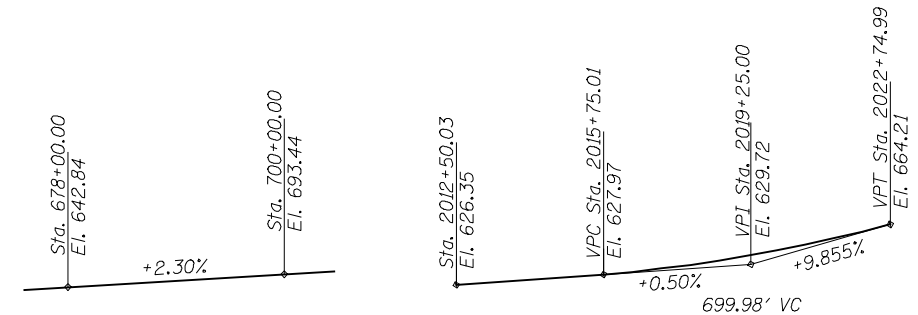
Existing Structure: None

CH 14 will be closed
during construction.



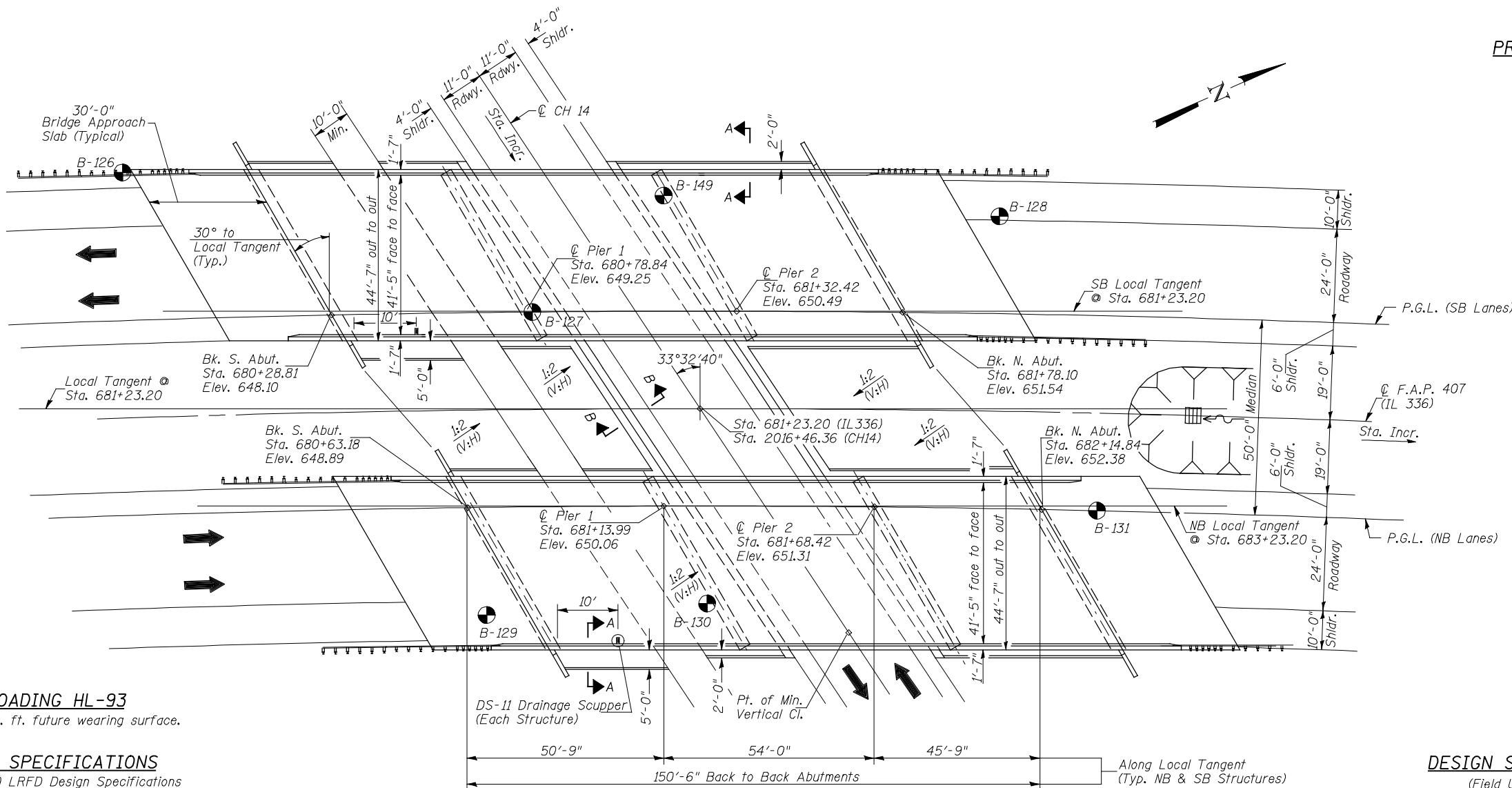
ELEVATION

* See Pier Sketch for ground elevations.



PROFILE GRADE IL 336 (FAP 407)

PROFILE GRADE CH 14
(@ C Rdwy.)



PLAN

PROP CURVE IL 336-4

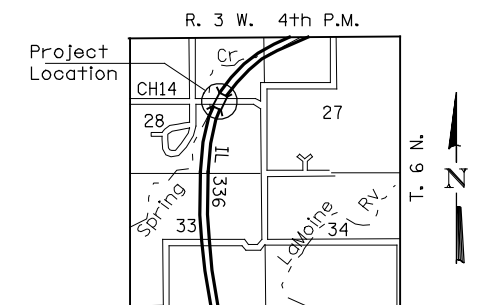
PI STA. = 685+49.24
Δ = 60° 09' 14" (RT)
D = 1° 16' 24"
R = 4,500.00'
T = 2,606.15'
L = 4,724.48'
E = 700.19'
e = 4.1%
T.R. = 41.42'
S.E. RUN = 182.25'
P.C. STA. = 659+43.10
P.T. STA. = 706+67.58

HIGHWAY CLASSIFICATION

F.A.P. Route 407 IL 336
Functional Class: Principal Arterial (Rural)
ADT: 3,045 (2015); 3,715 (2035)
ADTT: 10%
DHV: 370 (2035)
Design Speed: 70 m.p.h.
Posted Speed: 65 m.p.h.

HIGHWAY CLASSIFICATION

County Highway 14
Functional Class: Major Collector (Non-Urban)
ADT: 762 (2015); 930 (2035)
ADTT: 10%
DHV: 93 (2035)
Design Speed: 50 m.p.h.
Posted Speed: Unposted



LOCATION SKETCH

LOADING HL-93

Allow 50#/sq. ft. future wearing surface.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Design Specifications
5th Edition with 2010 Interims

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.11g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.17g
Soil Site Class = D

DESIGN STRESSES

(Field Units)
 f'_c = 3,500 p.s.i.
 f_y = 60,000 p.s.i. (Reinforcement)
(Precast Prestressed Units)
 f'_ci = 5,000 p.s.i.
 f'_c = 6,000 p.s.i.
 f_{pu} = 270,000 p.s.i. ($1/2"$ low lax strands)
 f_{pbt} = 201,960 p.s.i. ($1/2"$ low lax strands)

GENERAL PLAN

IL 336 OVER CH 14
FAP 407 - SECTION (55-3)A
MCDONOUGH COUNTY
STATION 681+23.20
STR. NO. 055-0070 (NB)
STR. NO. 055-0071 (SB)

**NOT FOR CONSTRUCTION
FOR ROADWAY REFERENCE ONLY**

Hutchison Engineering, Inc.
Jacksonville & Shorewood, Illinois

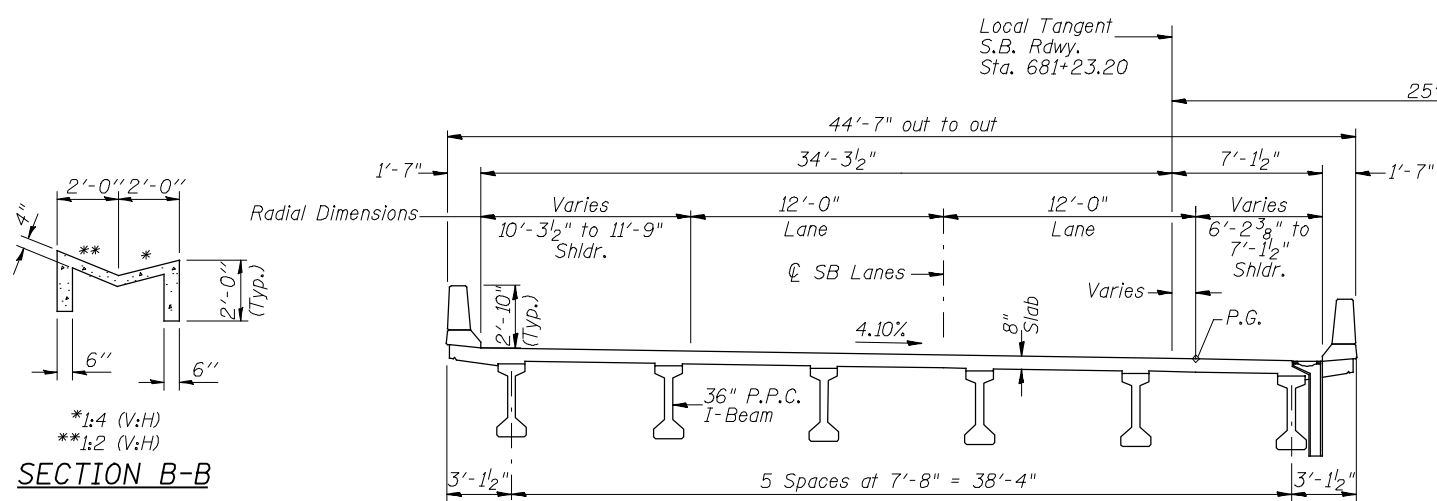
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PLOT SCALE = NONE	CHECKED - BAN	REVISED -
PLOT DATE = 12/12/2012	DRAWN - TAC	REVISED -
	CHECKED - JOH/BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

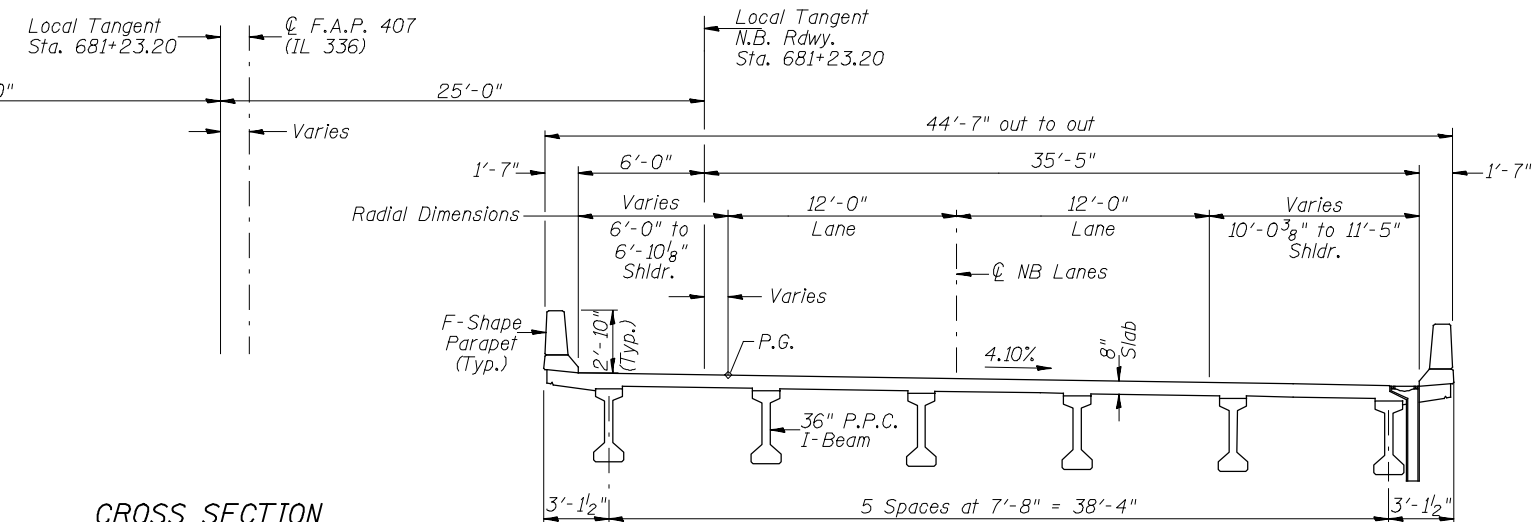
FAP 407 (IL RTE 336)
CH 14 TS & L

SHEET NO. 1 OF 2 SHEETS

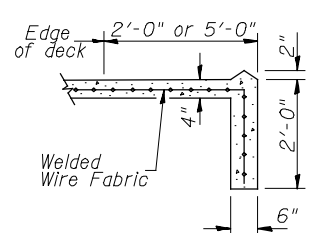
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDonough	671	259
055-0070(SB) & 055-0071(NB)			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



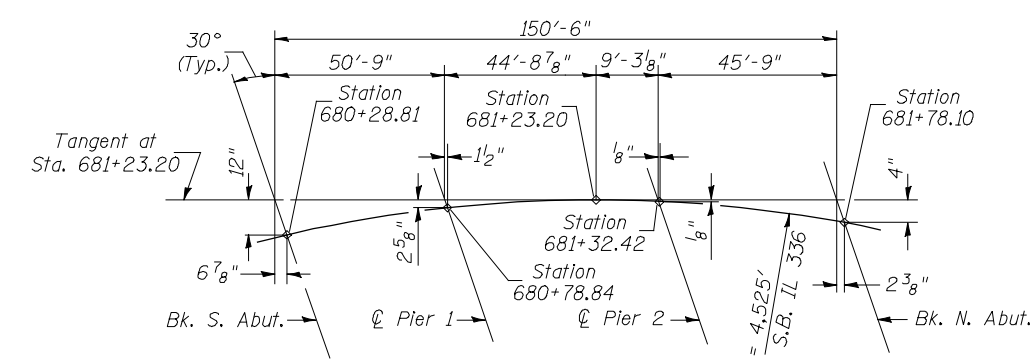
*1:4 (V:H)
**1:2 (V:H)
SECTION B-B



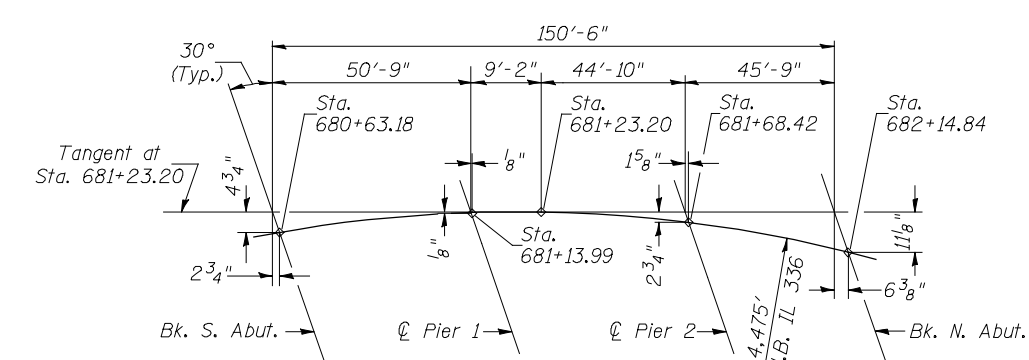
CROSS SECTION
(Looking North)



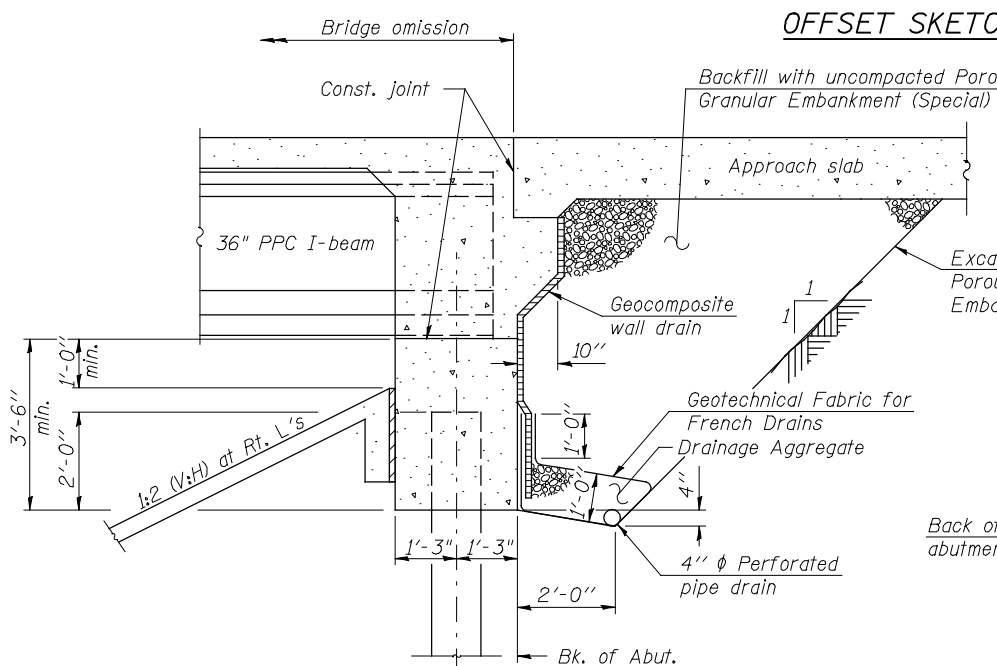
SECTION A-A



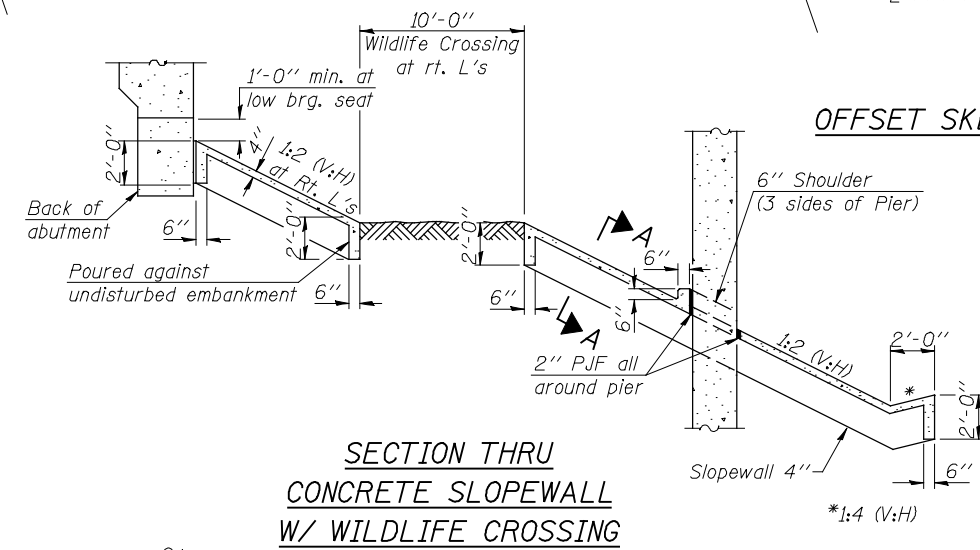
OFFSET SKETCH SB STRUCTURE



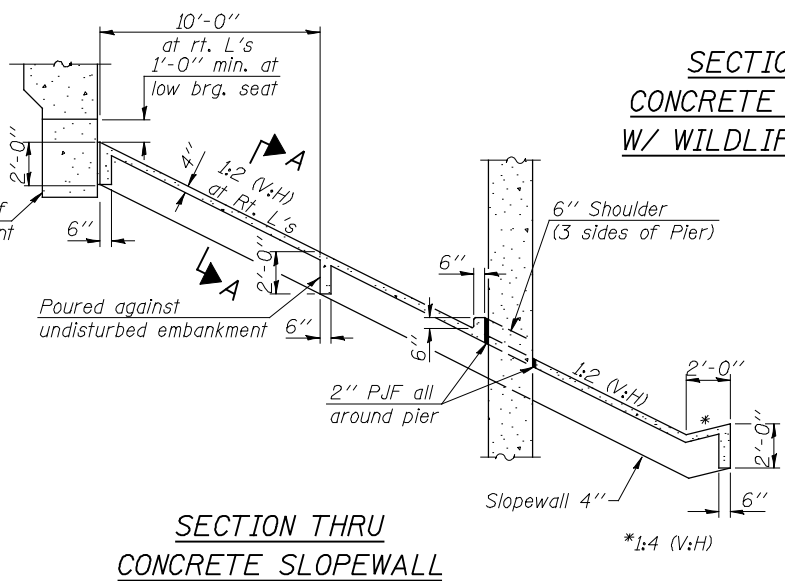
OFFSET SKETCH NB STRUCTURE



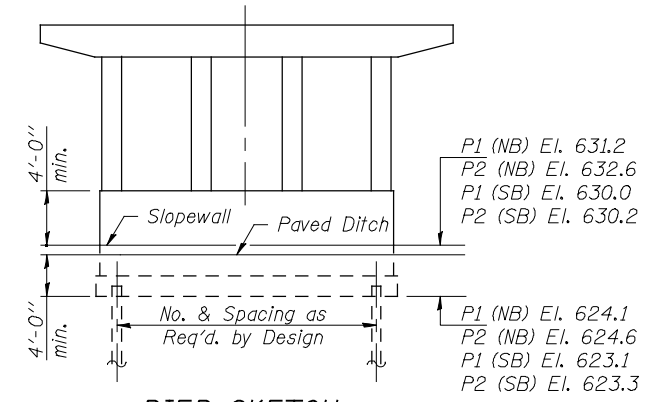
SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)



SECTION THRU CONCRETE SLOPEWALL W/ WILDLIFE CROSSING



SECTION THRU CONCRETE SLOPEWALL

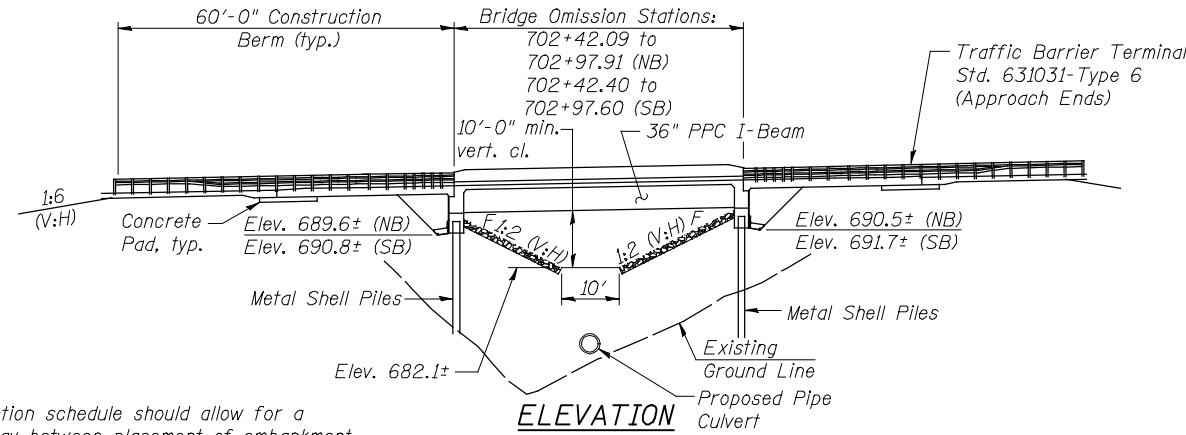


PIER SKETCH

NOT FOR CONSTRUCTION FOR ROADWAY REFERENCE ONLY

DETAILS
IL 336 OVER CH 14
FAP 407 - SECTION (55-3)A
MCDONOUGH COUNTY
STATION 681+23.20
STR. NO. 055-0070 (NB)
STR. NO. 055-0071 (SB)

Benchmark: RR Spike on northeast side of 34" Locust Tree, sta. 700+94.92, 22.73' LT, Elev. 696.64
 Existing Structure: None



Note:
 The construction schedule should allow for a 30 day a delay between placement of embankment fill and installation of the abutment piles to allow for consolidation of the underlying soils. Settlement of the fill should be monitored during this period to confirm that the settlement is complete.

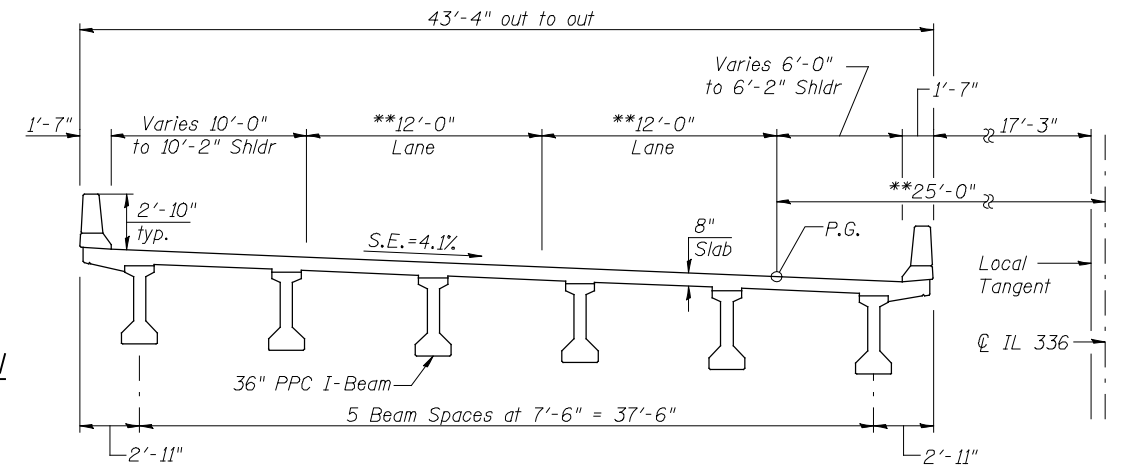
ELEVATION

CURVE DATA

$\Delta = 60^{\circ}-09'-14"$ (RT)
 $D = 1^{\circ}-16'-24"$
 $T = 2,606.15'$
 $L = 4,724.48'$
 $E = 700.19'$
 $R = 4,500.00'$
 $S.E. = 4.1\%$
 $P.C. = Sta. 659+43.10$
 $P.T. = Sta. 706+67.58$
 $P.I. = Sta. 685+49.24$

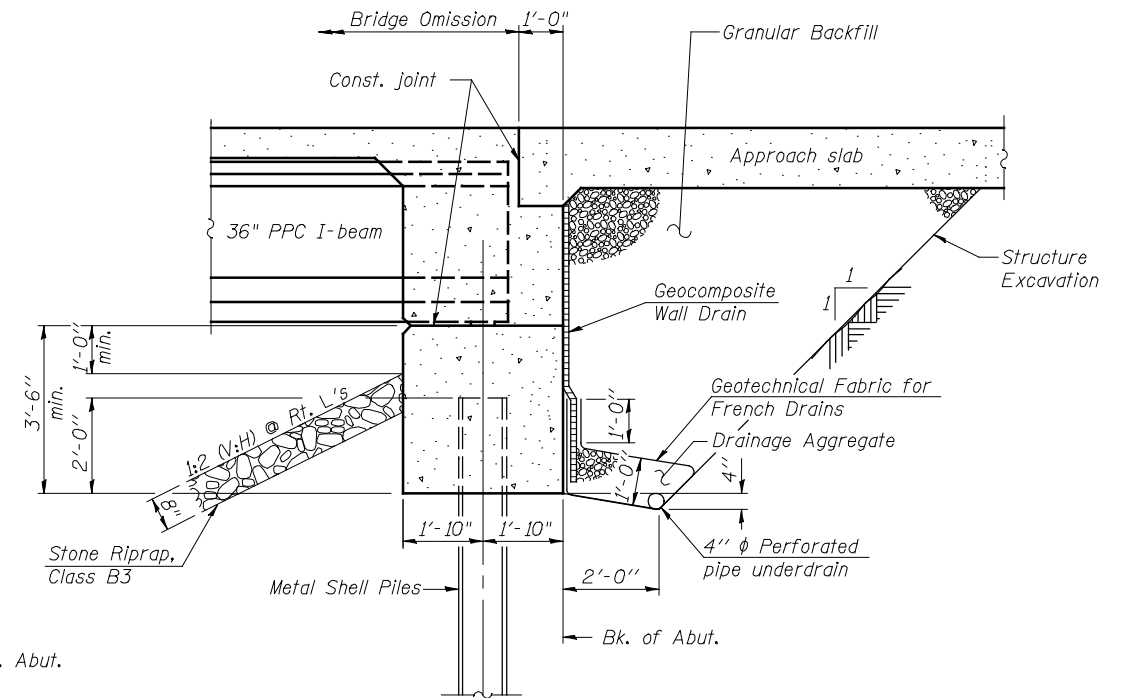
HIGHWAY CLASSIFICATION

F.A.P. 407 (IL 336)
 Functional Class: Freeway
 ADT: 3045 (2015); 3715 (2035)
 DHV: 305 (2015); 372 (2035)
 ADTT = 10%
 Design Speed: 70 m.p.h.
 Posted Speed: 65 m.p.h.
 Two-Way Traffic
 Directional Distribution: 50:50

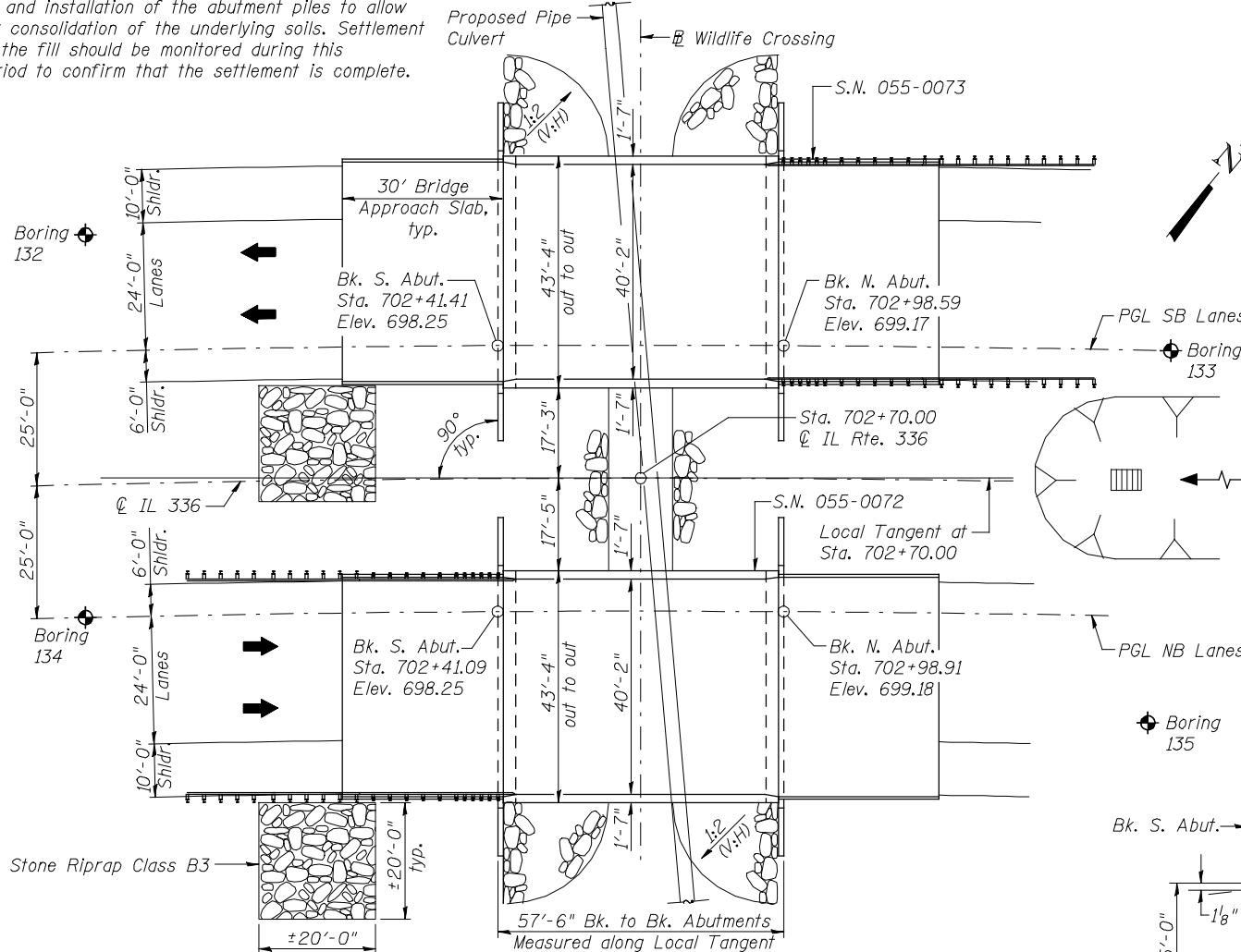


CROSS SECTION

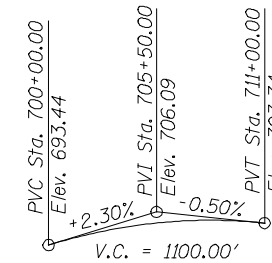
(S.N. 055-0073 Looking North shown, S.N. 055-0072 similar)



SECTION THRU ABUTMENT

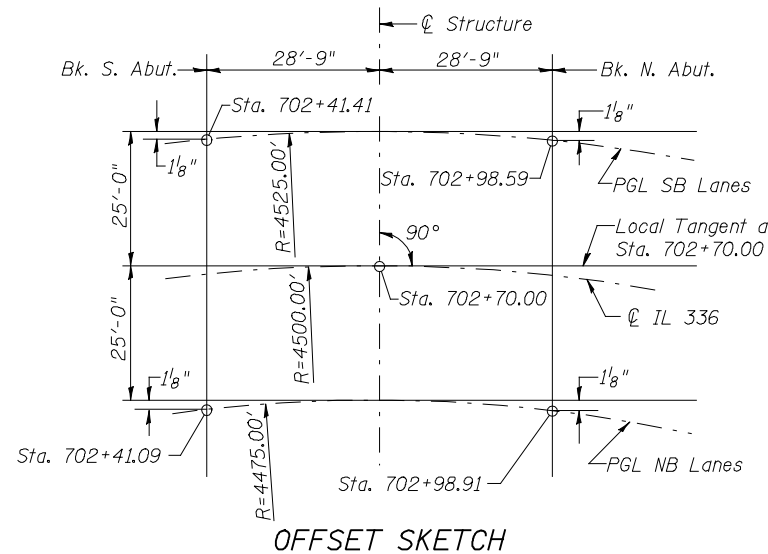


PLAN

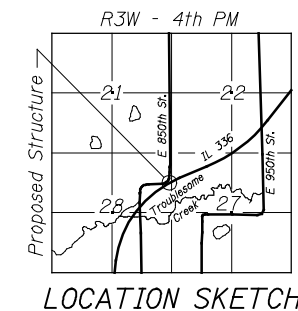


PROFILE GRADE

(along P.G.L. IL 336)



OFFSET SKETCH



NOT FOR CONSTRUCTION FOR ROADWAY REFERENCE ONLY

GENERAL PLAN AND ELEVATION
 IL 336 OVER WILDLIFE CROSSING #2
 F.A.P. 407 - SECTION 55-3
 McDONOUGH COUNTY
 STATION 702+70.00
 STRUCTURE NO. 055-0072 (NB)
 STRUCTURE NO. 055-0073 (SB)

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi

$f_y = 60,000$ psi (Reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi

$f'_{ci} = 5,000$ psi

$f_{pu} = 270,000$ psi ($1/2 \phi$ low lax. strands)

$f_{pbt} = 201,960$ psi ($1/2 \phi$ lox lax. strands)

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.08g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.13g
 Soil Site Class = C



USER NAME =
 FILE NAME =
 PLOT SCALE =
 PLOT DATE =

DESIGNED - MTH
 CHECKED - ADB
 DRAWN - TBP
 CHECKED - MTH

REVISED -
 REVISED -
 REVISED -
 REVISED -

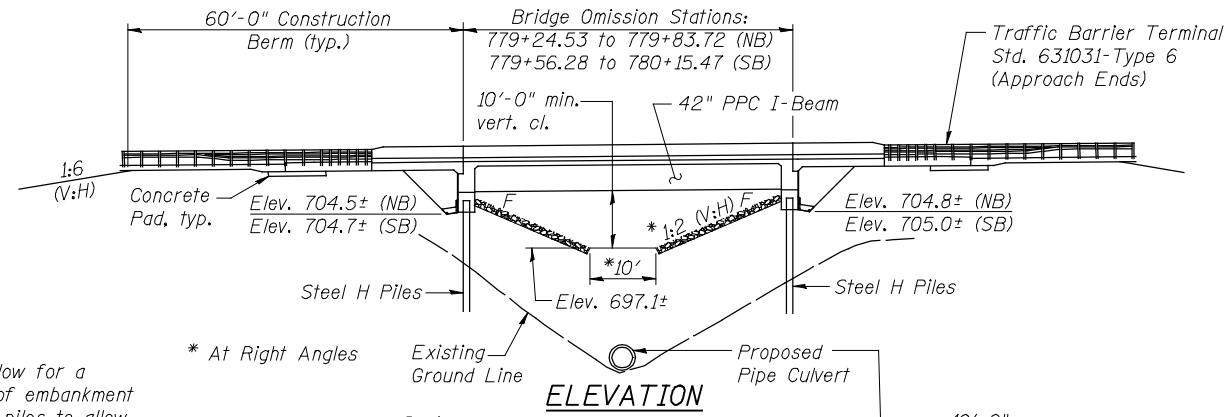
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 407 (IL RTE 336)
 WILDLIFE CROSSING #2 TS & L

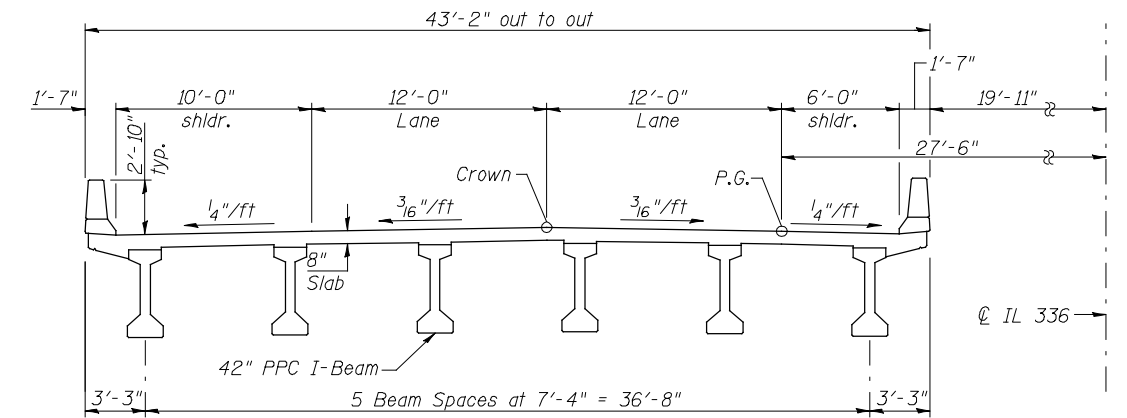
SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE. 407	SECTION 55-3	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 261
CONTRACT NO. 68418			ILLINOIS FED. AID PROJECT	

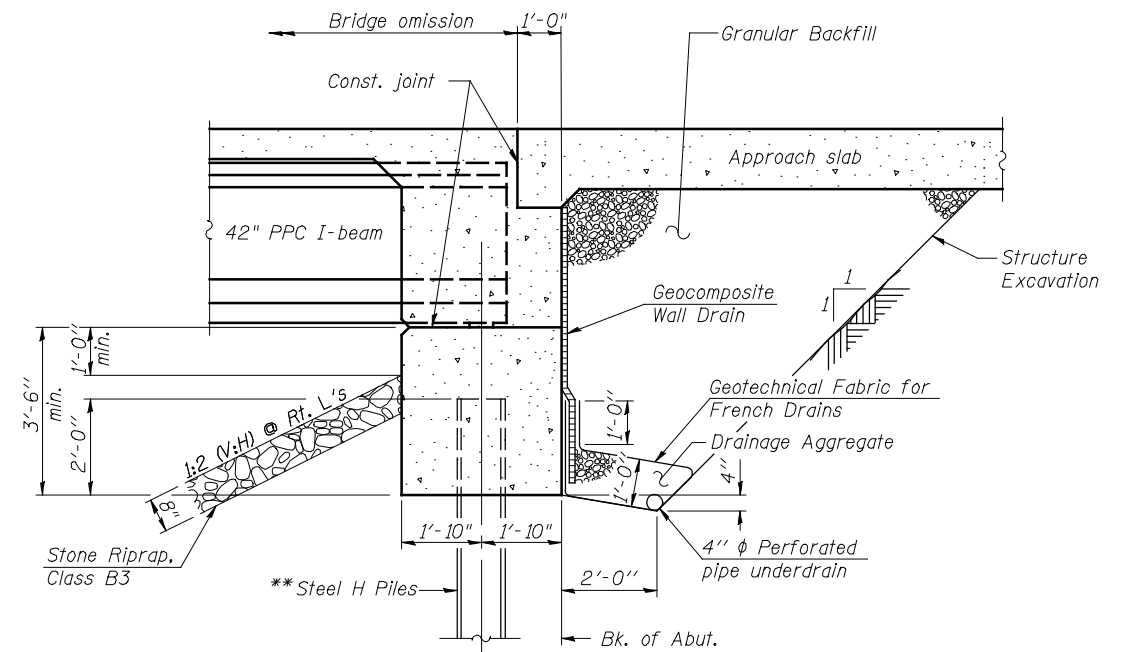
Benchmark: RR spike in 15" tree, sta. 779+90.13, 239.00' LT, Elev. 714.76
 Existing Structure: None



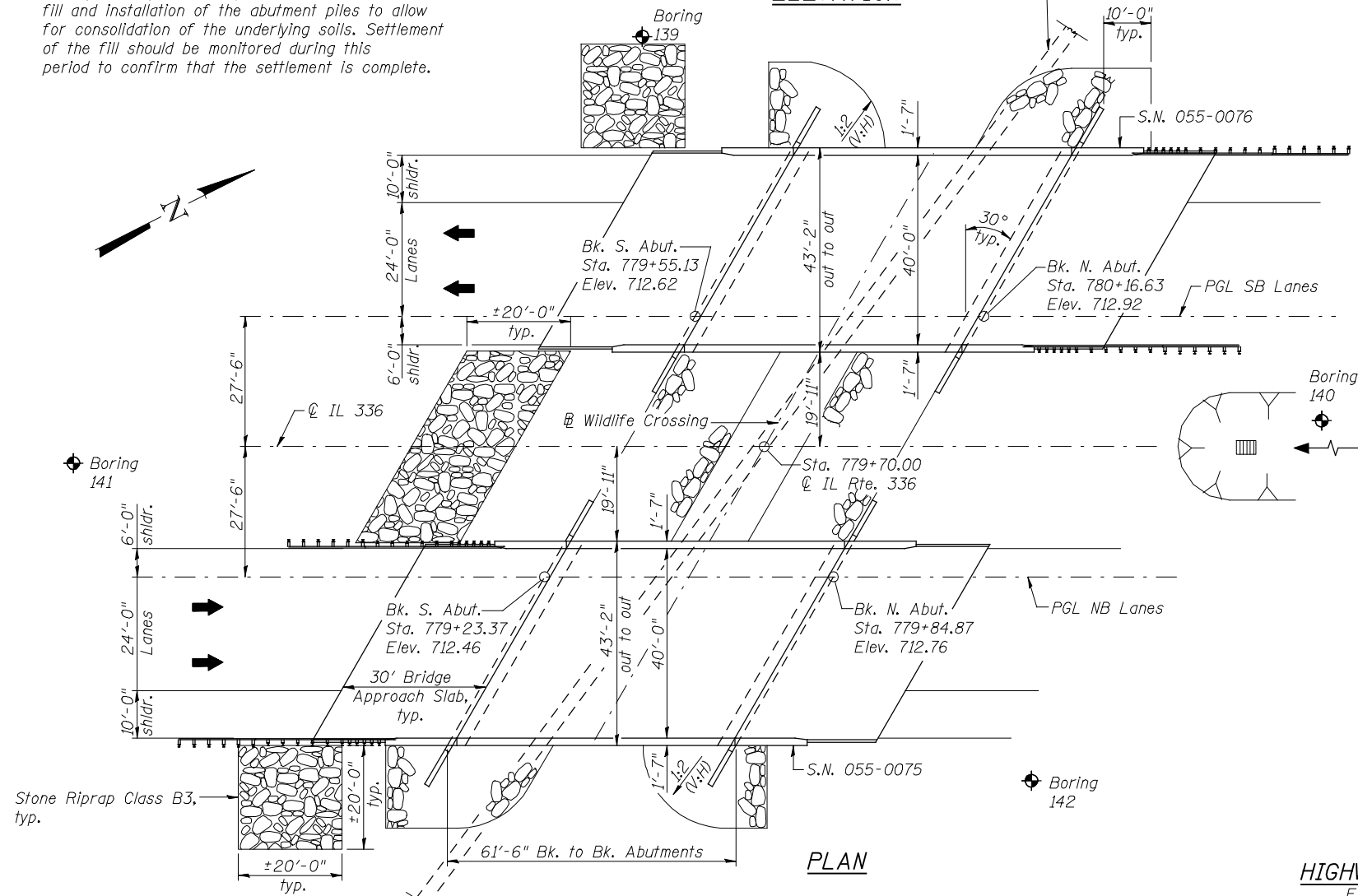
Note:
 The construction schedule should allow for a 30 day delay between placement of embankment fill and installation of the abutment piles to allow for consolidation of the underlying soils. Settlement of the fill should be monitored during this period to confirm that the settlement is complete.



CROSS SECTION
 (S.N. 055-0076 Looking North shown, S.N. 055-0075 similar)



SECTION THRU ABUTMENT
 (Horiz. dim. @ Rt. L's)



PLAN

DESIGN STRESSES

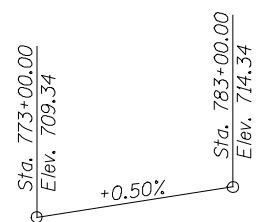
FIELD UNITS
 $f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
PRECAST PRESTRESSED UNITS
 $f'c = 6,000$ psi
 $f'ci = 5,000$ psi
 $f_{pu} = 270,000$ psi ($1/2$ " ϕ low lax. strands)
 $f_{pbt} = 201,960$ psi ($1/2$ " ϕ low lax. strands)

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition
LOADING HL-93
 Allow 50# / sq. ft. for future wearing surface.

SEISMIC DATA

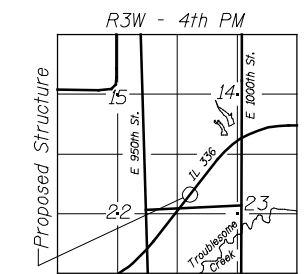
Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.08g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.13g
 Soil Site Class = C



PROFILE GRADE
 (along P.G.L. IL 336)

HIGHWAY CLASSIFICATION

F.A.P. 407 - (IL 336)
 Functional Class: Freeway
 ADT: 3045 (2015); 3715 (2035)
 DHV: 305 (2015); 372 (2035)
 ADTT = 10%
 Design Speed: 70 m.p.h.
 Posted Speed: 65 m.p.h.
 Two-Way Traffic
 Directional Distribution: 50:50



LOCATION SKETCH

**NOT FOR CONSTRUCTION
 FOR ROADWAY REFERENCE ONLY**

**GENERAL PLAN AND ELEVATION
 IL 336 OVER WILDLIFE CROSSING #3
 F.A.P. 407 - SECTION 55-3
 McDONOUGH COUNTY
 STATION 779+70.00
 STRUCTURE NO. 055-0075 (NB)
 STRUCTURE NO. 055-0076 (SB)**



USER NAME =	DESIGNED - MTH	REVISED -
FILE NAME =	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - TBP	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 407 (IL RTE 336)
 WILDLIFE CROSSING #3 TS & L

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	55-3	McDONOUGH	671	262
			CONTRACT NO. 68418	
ILLINOIS FED. AID PROJECT				

BM HE1 33:
R.R. spike in ±18" tree, ±¼ mile N. of E. Lamoine River,
East side of field entrance. ±45' Rt Sta 598+00±
Elev. 602.33

No existing structure.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Cast In Place Culvert Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Reinforcement Bars	Pound	19,560
Concrete Box Culverts	Cu Yd	139.4
Porous Granular Embankment	Cu Yd	551

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Downstream	Upstream
	595.63	596.72

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
6th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

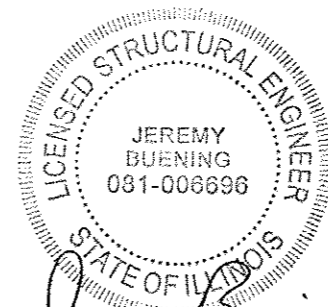
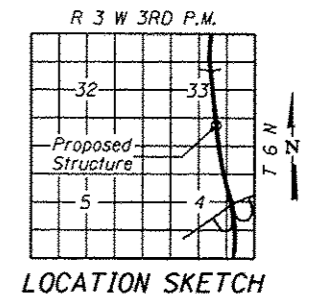
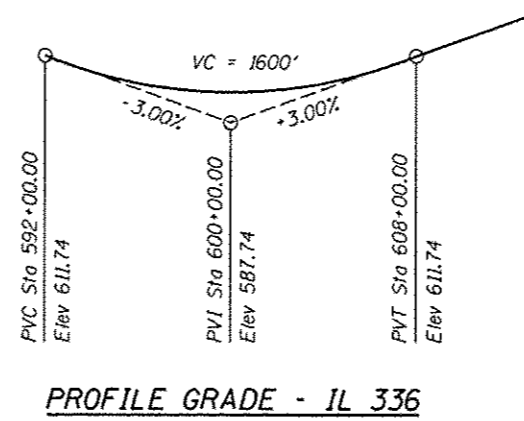
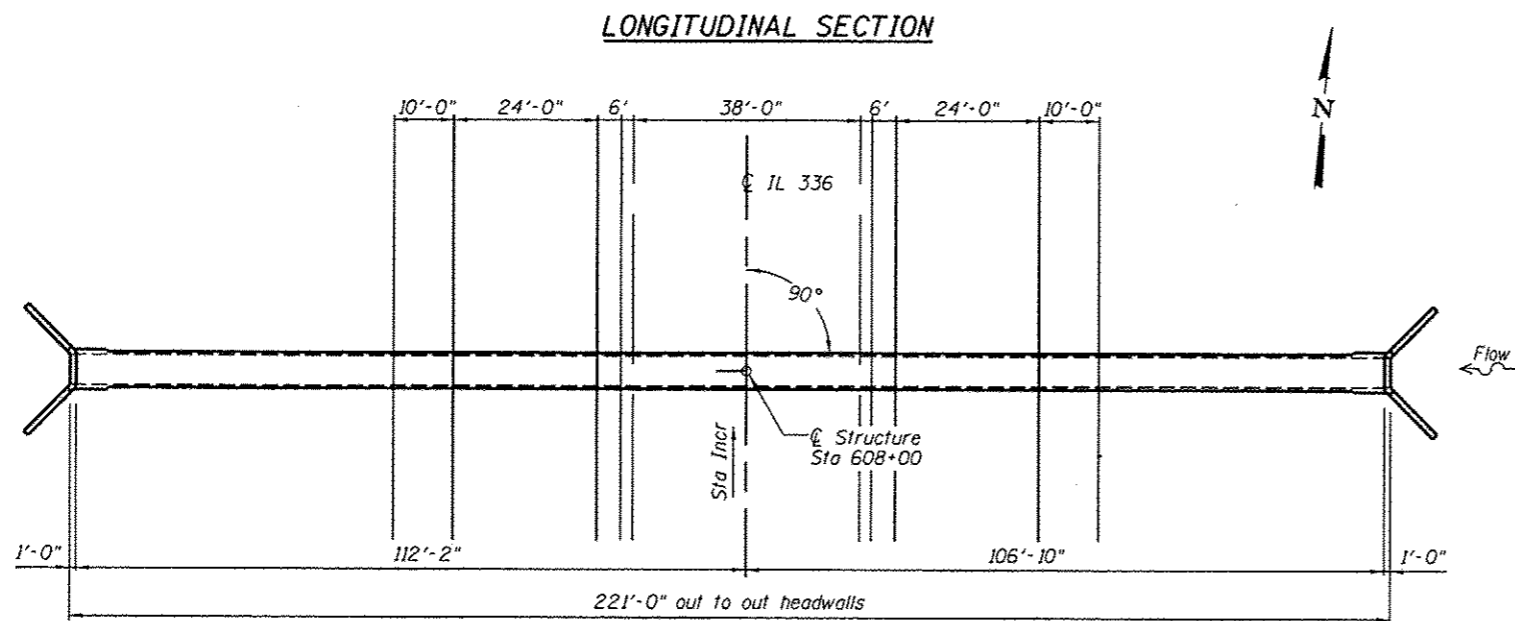
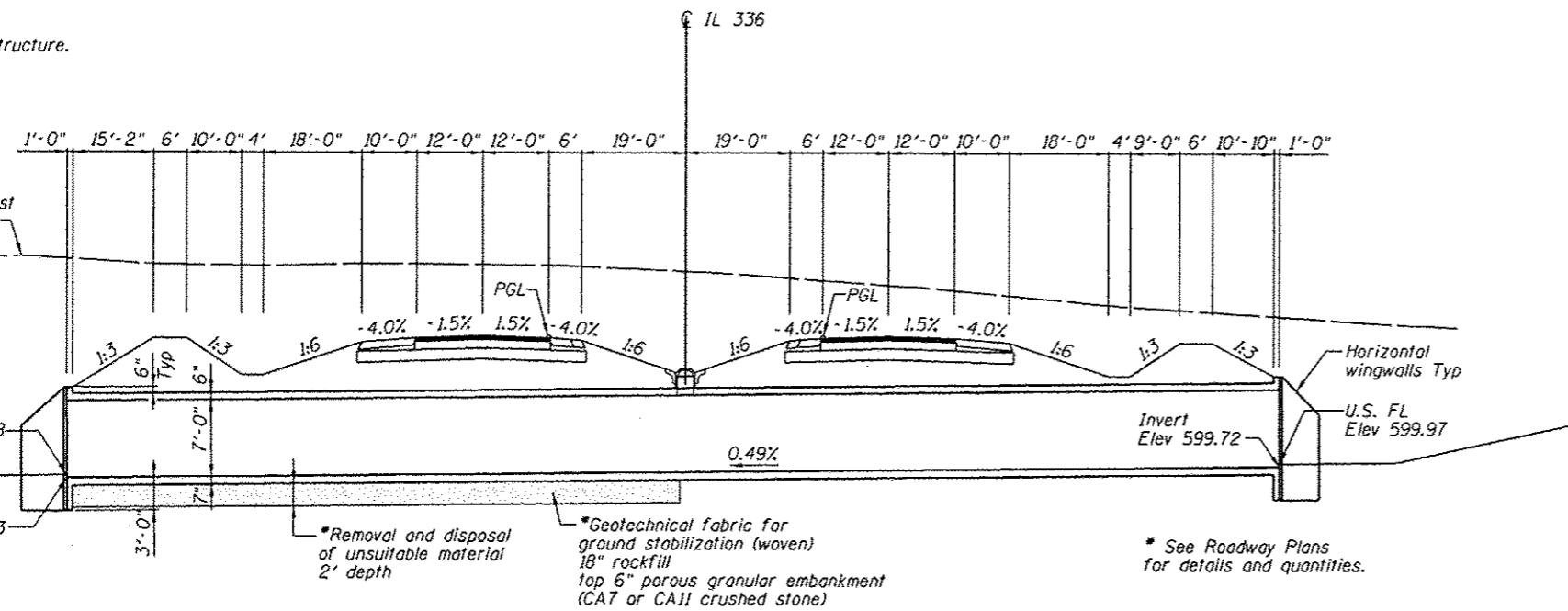
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

GENERAL NOTES:

Precast alternate is not allowed.

For porous granular embankment details, see Detail of Excavation and Backfill for Box Culverts Sheet.



Jeremy Buening 12/3/12
Jeremy Buening, P.E., S.E. Date
License Expires 11/30/14

**GENERAL PLAN AND ELEVATION,
F.A.I. 407 (IL 336)
OVER DRAINAGE DITCH
MCDONOUGH COUNTY
STATION 608+00.00**

FILE NAME: I:\001\5686 - HE1 IL 336\1000.Structural\10Box_Culvert\1\plan608+00.dgn

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-00197

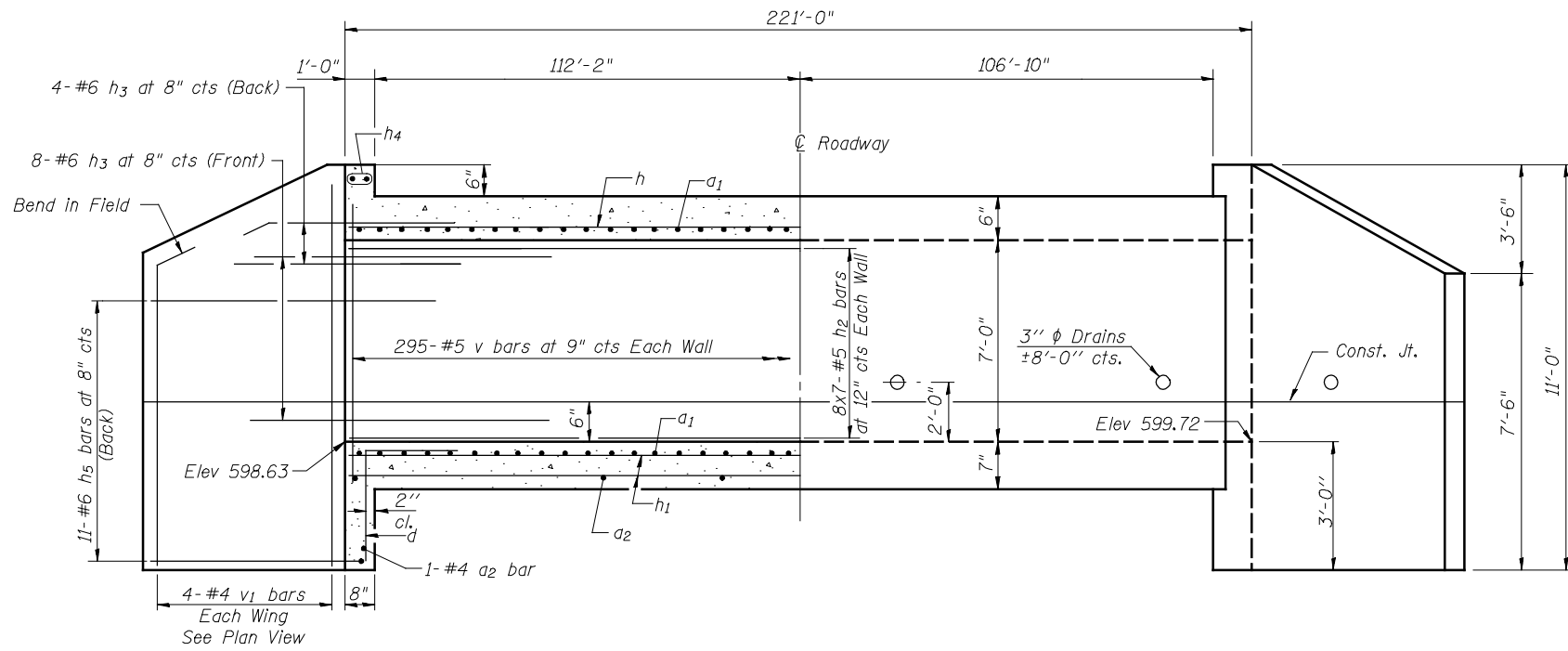
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PLOT SCALE	• 32.0000' / in.	DRAWN	RLK	REVISED	-
PLOT DATE	• 1/16/2013	CHECKED	JMB	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
BOX CULVERT AT STA 608+00.00

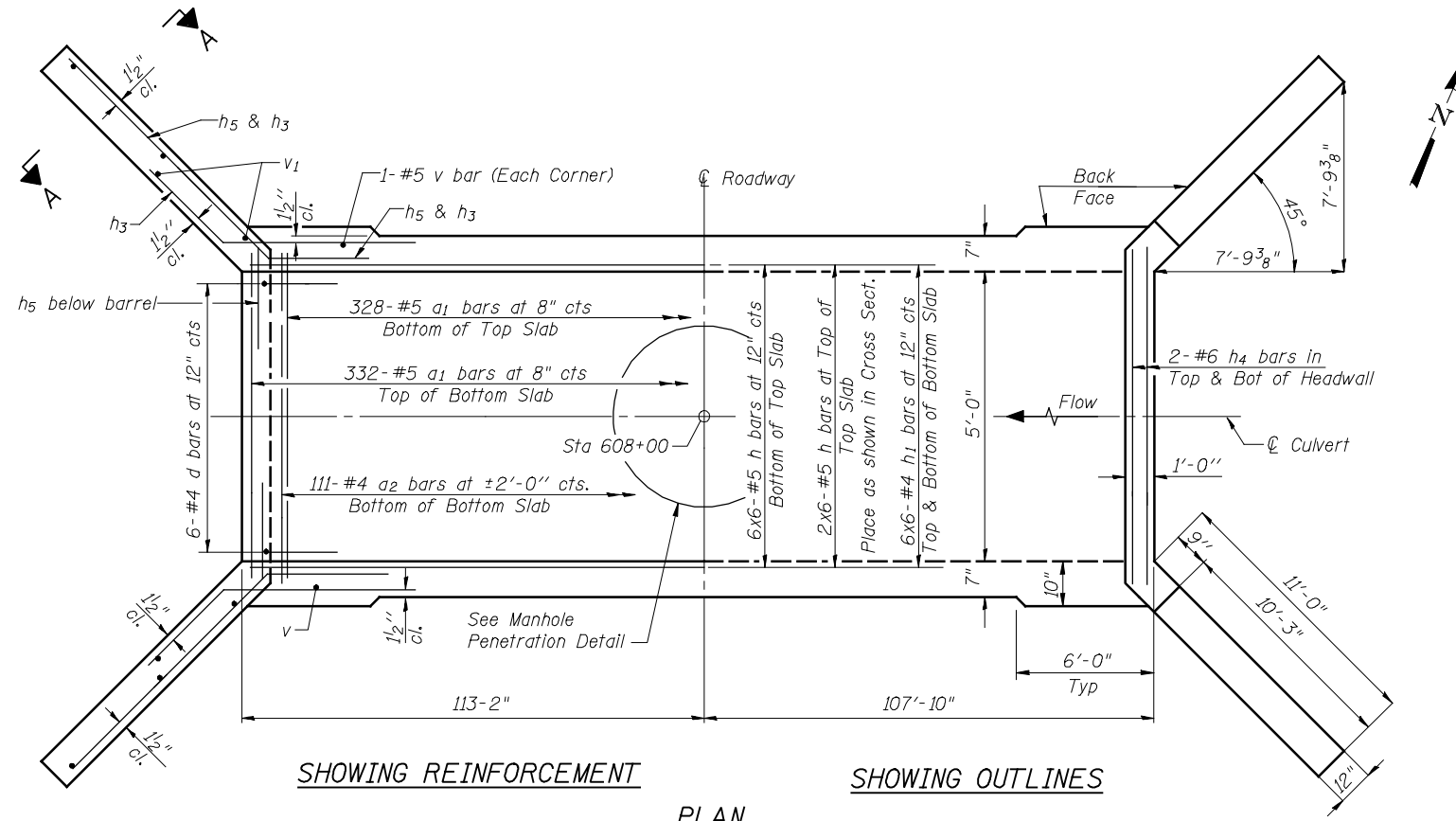
SHEET NO. 1 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	55-3	MCDONOUGH	167	1263
			CONTRACT NO. 68418	
ILLINOIS FED. AID PROJECT				



HALF LONG. SECTION

HALF ELEVATION



SHOWING REINFORCEMENT

SHOWING OUTLINES

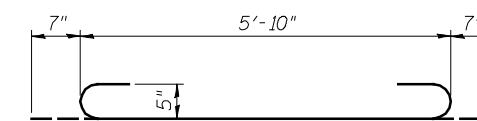
PLAN

NOTES

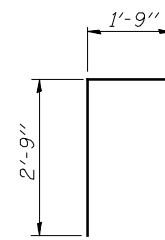
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60.
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
 See Roadway Plans for manhole details and quantities

MIN BAR LAP

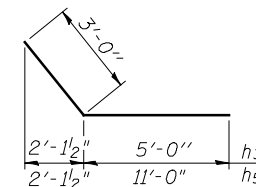
#4 bar = 2'-0"
 #5 bar = 2'-6"



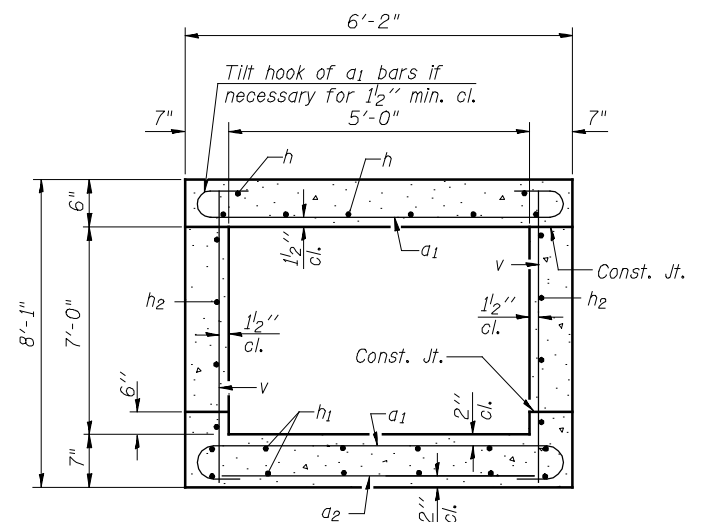
BAR a1



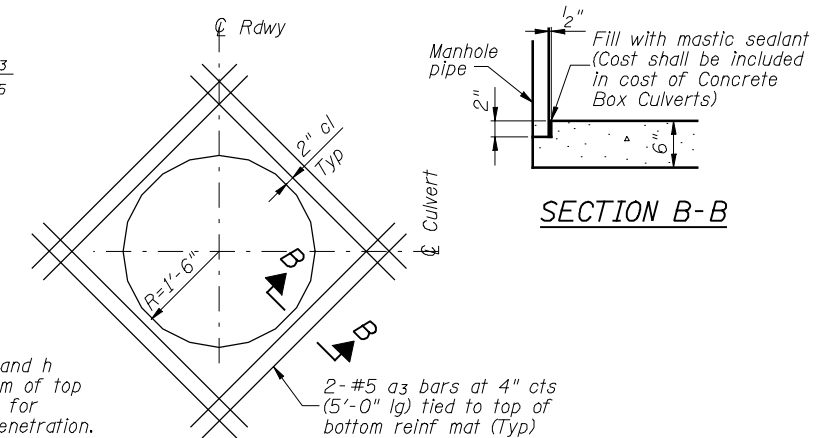
BAR d



BARS h3 & h5



SECTION THRU BARREL

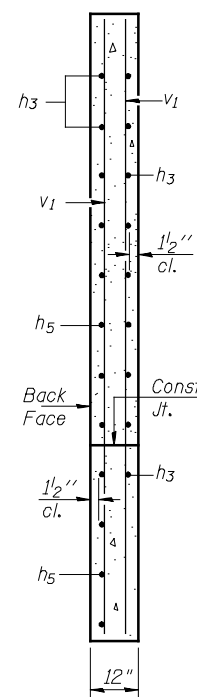


SECTION B-B

Field cut a1 and h bars in bottom of top slab, allowing for 2" cl from penetration.

MANHOLE PENETRATION DETAIL

(Top Slab)



SECTION A-A

SECTION THRU HEADWALL

(Up Stream End Only)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a1	660	#5	7'-0"	U	
a2	113	#4	5'-10"	—	
a3	8	#5	5'-0"	—	
d	12	#4	4'-6"	T	
h	48	#5	38'-11"	—	
h1	72	#4	38'-5"	—	
h2	112	#5	33'-9"	—	
h3	48	#6	8'-0"	—	
h4	8	#6	5'-8"	—	
h5	44	#6	14'-0"	—	
v	594	#5	7'-9"	—	
v1	16	#4	10'-8"	—	
Concrete Box Culverts				Cu. Yd.	139.4
Reinforcement Bars				Pound	19,560

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SSB-H-0

7-1-10

HOMER I. CHASTAIN & ASSOCIATES, LLP
 CONSULTING ENGINEERS
 184-001897

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 PLOT DATE = 12/12/2012

DESIGNED ACB
 CHECKED JMB
 DRAWN RLK
 CHECKED JMB

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST IN PLACE CULVERT DETAILS
STATION 608+00

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3A)	MCDONOUGH	671	264
ILLINOIS FED. AID PROJECT				CONTRACT NO. 68A42

BM HE1 35:
Chiseled "□" on N.E. corner concrete patio/boat house
N. side of lake, E. of Sta 643+00, ±300' Rt
Elev. 695.54

No existing structure.

Measured at
Rt L's to @ Roadway

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Cast In Place Culvert Details
- 3 Cast In Place Culvert Details

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
6th Edition

DESIGN STRESSES

FIELD UNITS

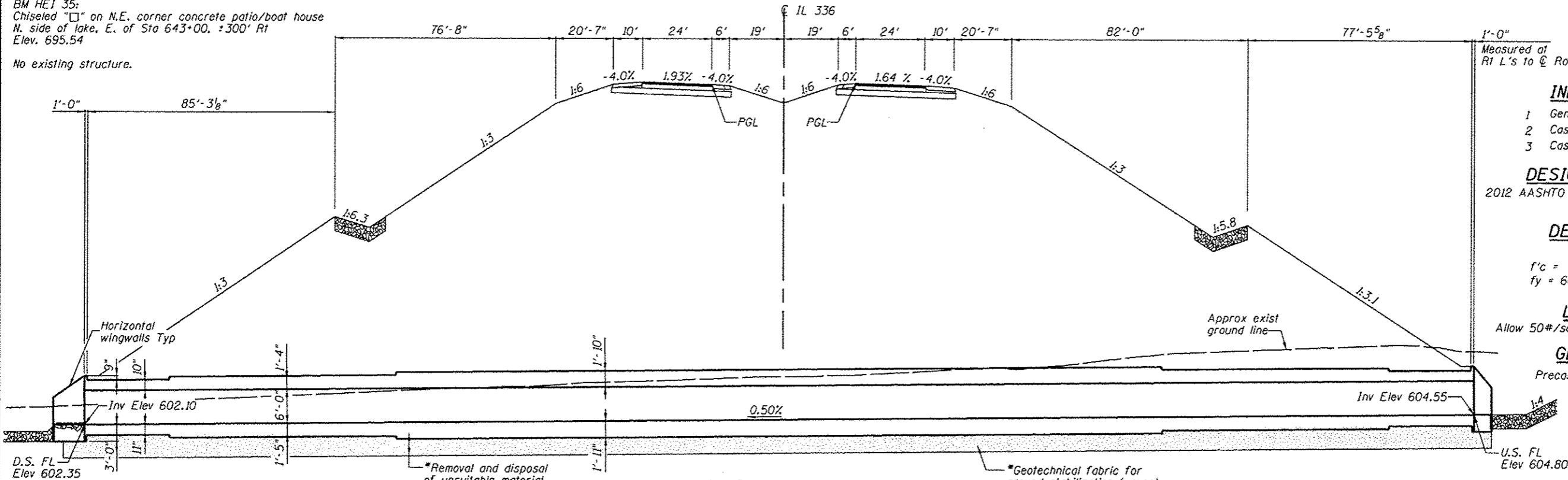
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

LOADING HL-93

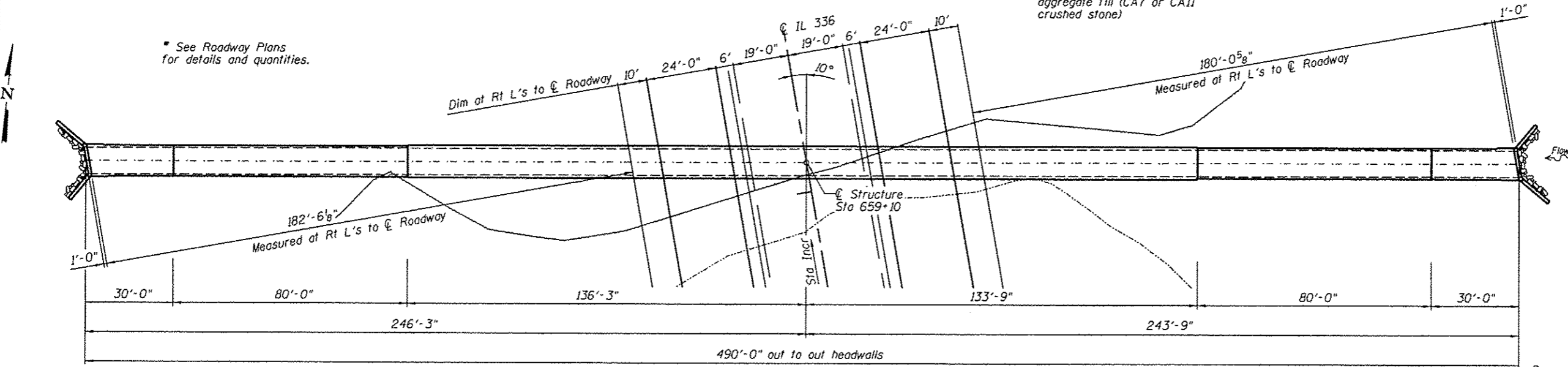
Allow 50#/sq. ft. for future wearing surface.

GENERAL NOTES:

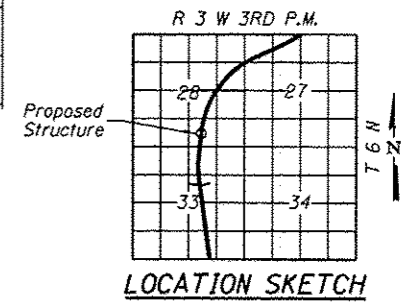
Precast alternate is not allowed.



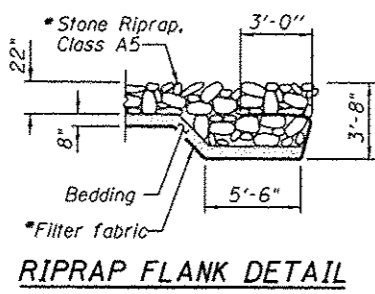
LONGITUDINAL SECTION



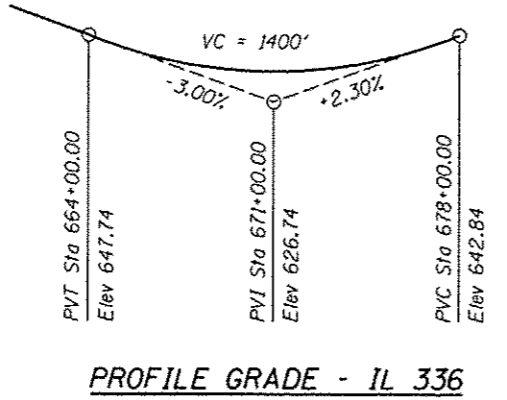
PLAN



LOCATION SKETCH



RIPRAP FLANK DETAIL



PROFILE GRADE - IL 336

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Reinforcement Bars	Pound	178,210
Concrete Box Culverts	Cu Yd	835.3

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Downstream	Upstream
	599.10	601.55



Jeremy Buening 12/3/12
Jeremy Buening, P.E., S.E. Date
License Expires 11/30/14

**GENERAL PLAN AND ELEVATION,
F.A.I. 407 (IL 336)
OVER DRAINAGE DITCH
MCDONOUGH COUNTY
STATION 659+10.00**

FILE NAME: HE1_IL336_C400_Structure.dwg

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001997

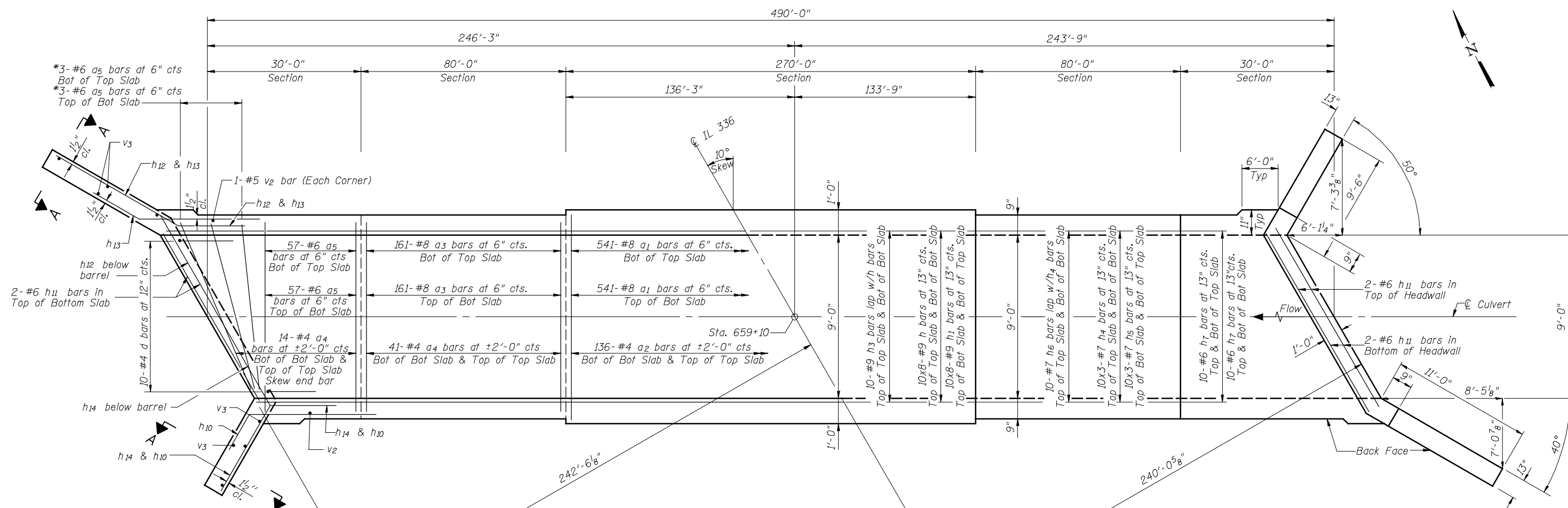
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
BOX CULVERT AT STA 659+10.00**
SHEET NO. 1 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
407	55-3	MCDONOUGH	671/210
			CONTRACT NO. 68418

ILLINOIS FED. AID PROJECT

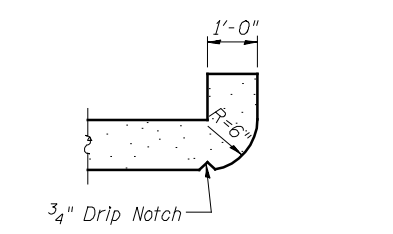


SHOWING REINFORCEMENT
 *a5 bars in skew portion of the slab shall be ordered full length and cut to fit in field.

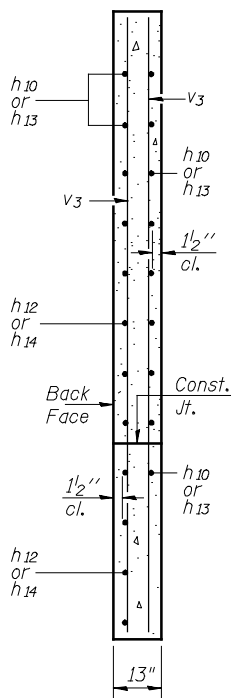
PLAN

SHOWING OUTLINES

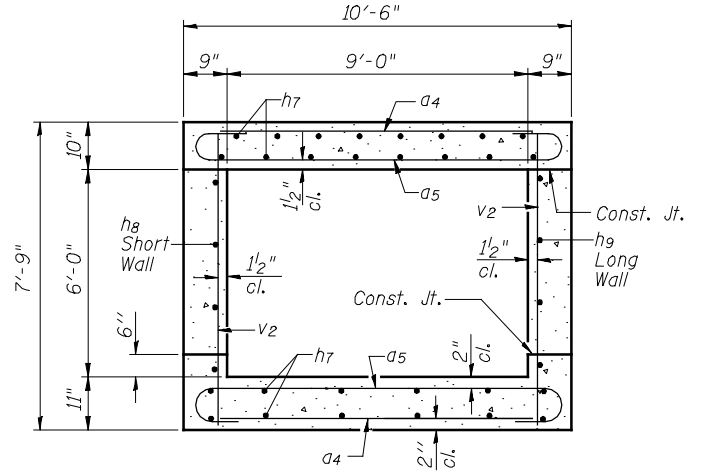
MIN BAR LAP
 #6 bar = 3'-0"
 #7 bar = 3'-11"
 #8 bar = 5'-2"
 #9 bar = 6'-7"



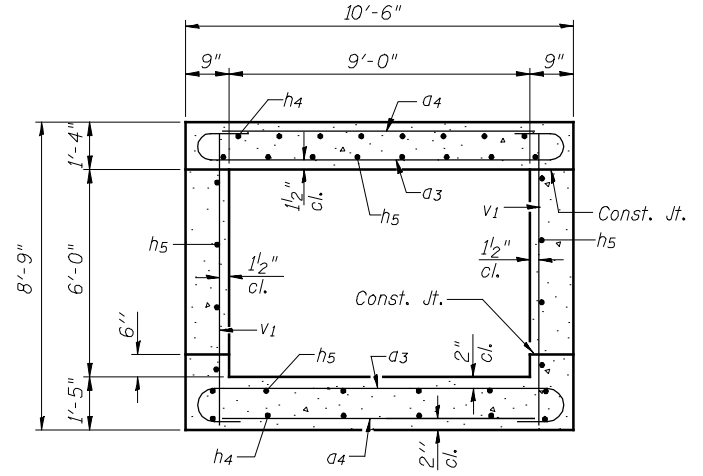
SECTION THRU HEADWALL
 (Up Stream End Only)



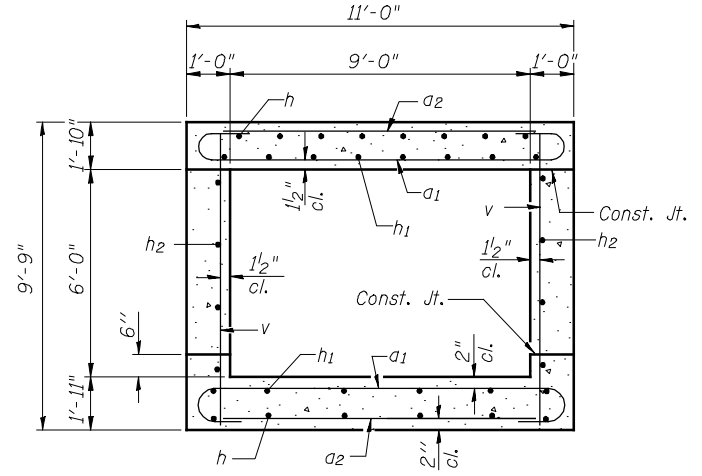
SECTION A-A



SECTION THRU 30' END SECTIONS



SECTION THRU 80' SECTIONS



SECTION THRU 270' MID SECTION

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SSB-H-L

7-1-10

HOMER L. CHASTAIN & ASSOCIATES, LLP
 CONSULTING ENGINEERS
 184-001897

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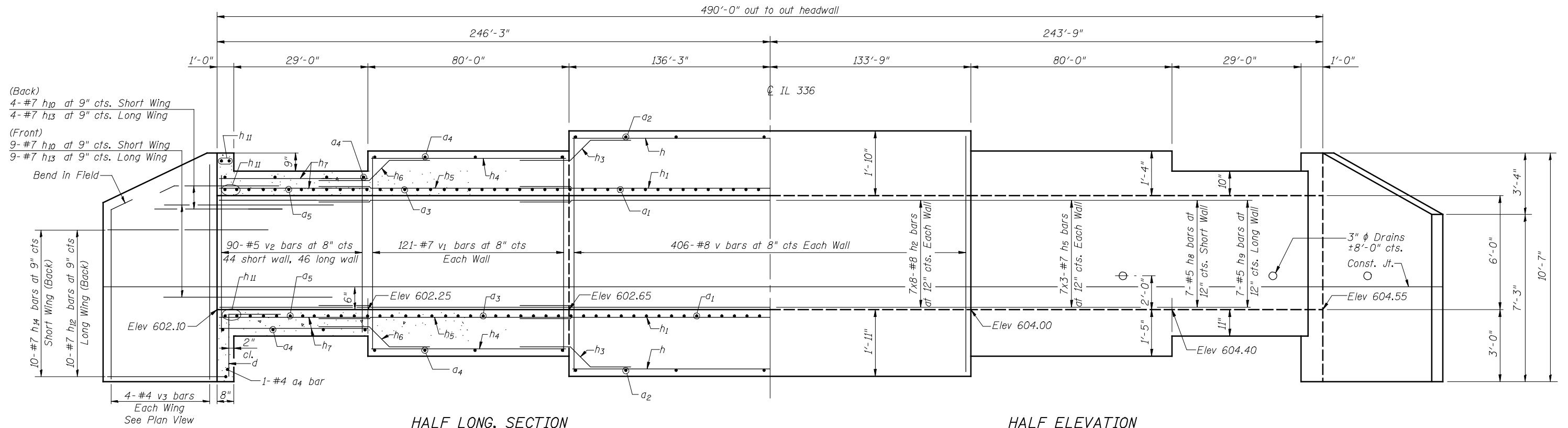
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST IN PLACE CULVERT DETAILS
STATION 659+10

SHEET NO. 2 OF 3 SHEETS

F. AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	671	266
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

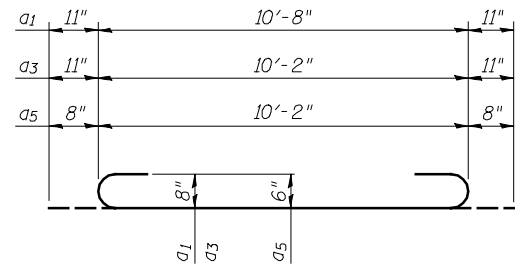


HALF LONG SECTION

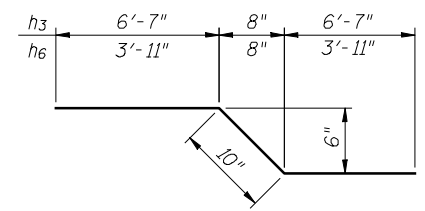
HALF ELEVATION

BILL OF MATERIAL

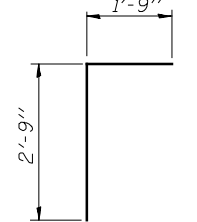
Bar	No.	Size	Length	Shape
a1	1082	#8	12'-6"	U
a2	272	#4	10'-8"	—
a3	644	#8	12'-0"	U
a4	222	#4	10'-2"	—
a5	240	#6	11'-6"	U
d	20	#4	4'-6"	L
h	160	#9	39'-7"	—
h1	160	#9	41'-2"	—
h2	112	#8	39'-7"	—
h3	20	#9	14'-0"	—
h4	120	#7	29'-4"	—
h5	204	#7	30'-7"	—
h6	40	#7	8'-8"	—
h7	80	#6	59'-3"	—
h8	14	#5	28'-9"	—
h9	14	#5	30'-6"	—
h10	26	#7	8'-0"	—
h11	12	#6	10'-4"	—
h12	20	#7	14'-0"	—
h13	26	#7	8'-0"	—
h14	20	#7	12'-6"	—
v	812	#8	9'-5"	—
v1	242	#7	8'-5"	—
v2	184	#5	7'-5"	—
v3	16	#4	10'-3"	—
Concrete Box Culverts			Cu. Yd.	835.3
Reinforcement Bars			Pound	178,210



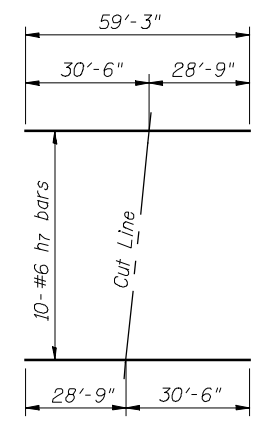
BARS a1, a3 & a5



BARS h3 & h6

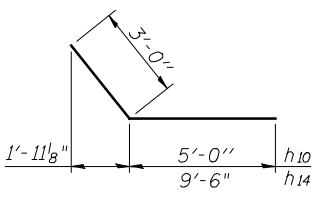


BAR d

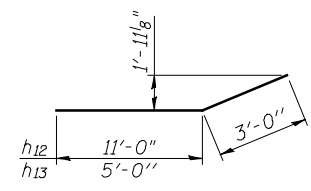


FIELD CUTTING DIAGRAM

Order h7 full length. Cut as shown and use remainder of bars in opposite face.



BARS h10 & h14



BARS h12 & h13

NOTES

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

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HOMER I. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001897

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

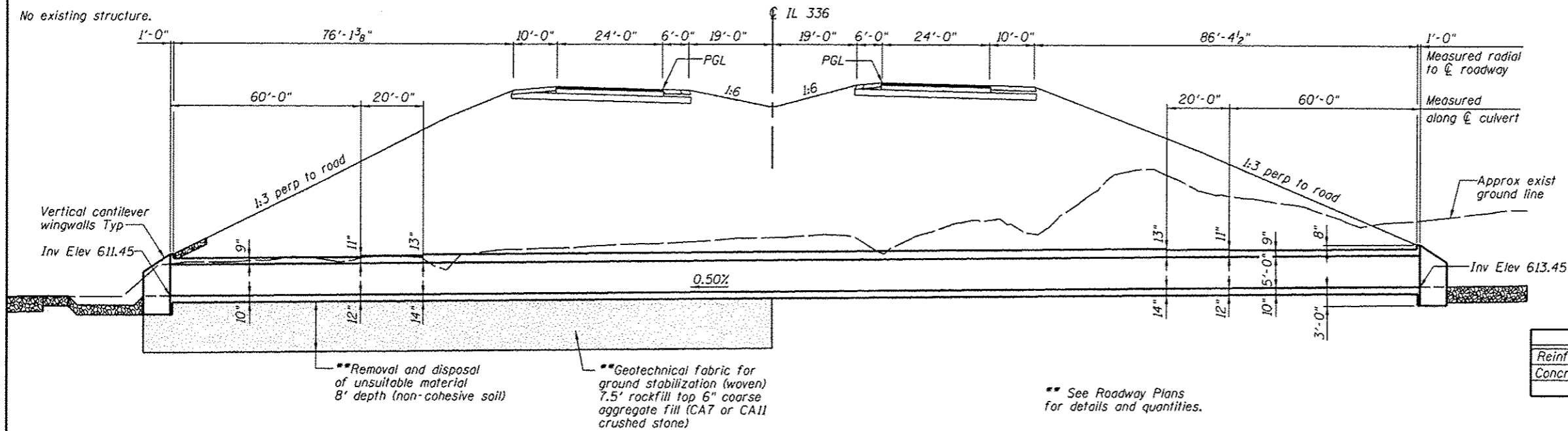
CAST IN PLACE CULVERT DETAILS
STATION 659+10

SHEET NO. 3 OF 3 SHEETS

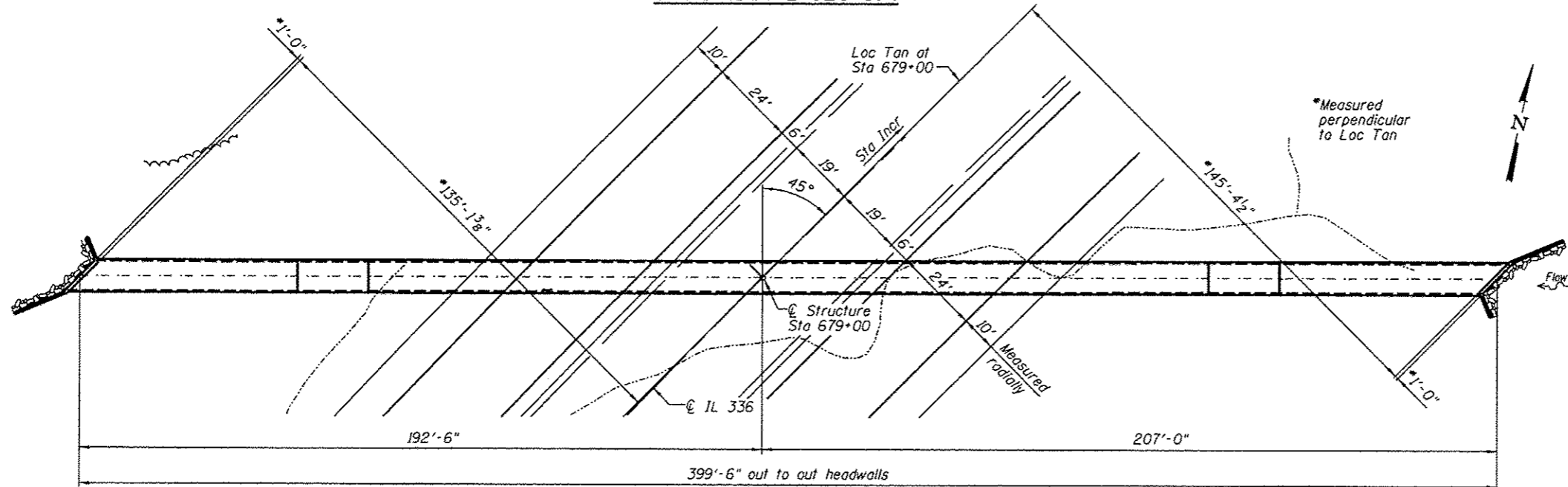
F.A.P. RTE. 407	SECTION (55-3)A	COUNTY MCDONOUGH	TOTAL SHEETS 671	SHEET NO. 267
CONTRACT NO. 68A42			ILLINOIS FED. AID PROJECT	

BM W-15
60d nail in E. face of P.P., S.W. quad of 1350N & 900E Roads. ±348' Lt 900E. Elev. 700.20

No existing structure.

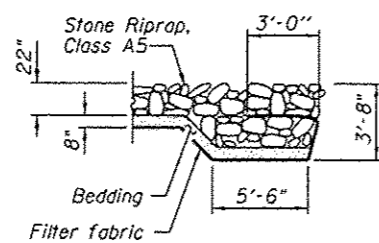


LONGITUDINAL SECTION

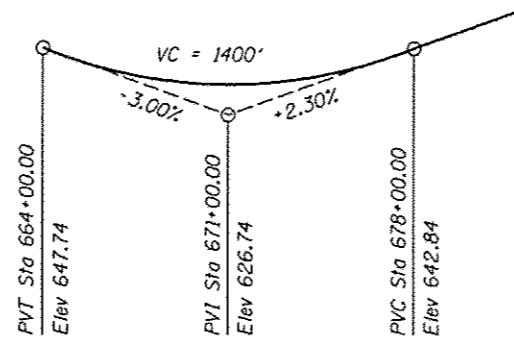


PLAN

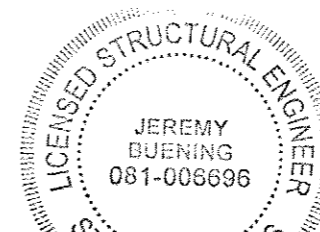
PROP. CURVE IL336-4
PI STA. = 685+49.24
Δ = 60° 09' 14" (RT)
D = 1° 16' 24"
R = 4,500.00'
T = 2,606.15'
L = 4,724.48'
E = 700.19'
S.E. RUN = -----
P.C. STA. = 659+43.10
P.T. STA. = 706+67.58



RIPRAP FLANK DETAIL



PROFILE GRADE - IL 336



Jeremy Buening, P.E., S.E.
License Expires 11/30/14
Date 12/3/12

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Cast In Place Culvert Plan
- 3 Cast In Place Culvert Details

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Downstream	Upstream
	608.45	610.45

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Reinforcement Bars	Pound	82,740
Concrete Box Culverts	Cu Yd	378.9

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
6th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

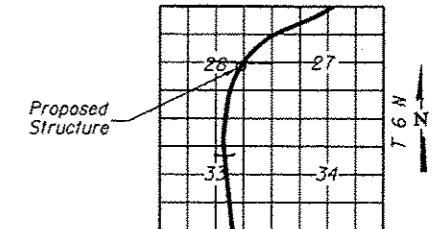
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

GENERAL NOTES:

- Precast alternate is not allowed.
- For porous granular embankment details, see Detail of Excavation and Backfill for Box Culverts Sheet.

LOCATION SKETCH



GENERAL PLAN AND ELEVATION,

F.A.I. 407 (IL 336)
OVER DRAINAGE DITCH
MCDONOUGH COUNTY
STATION 679+00.00

FILE NAME: F:\00715696 - HEI_IL\336\1900.Structural\Box Culvert\1900.dgn

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-981397

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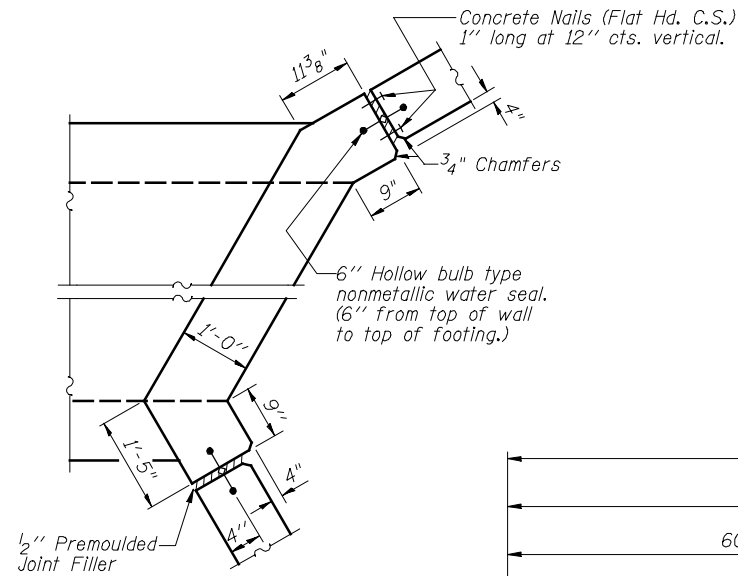
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
BOX CULVERT AT STA 679+00.00

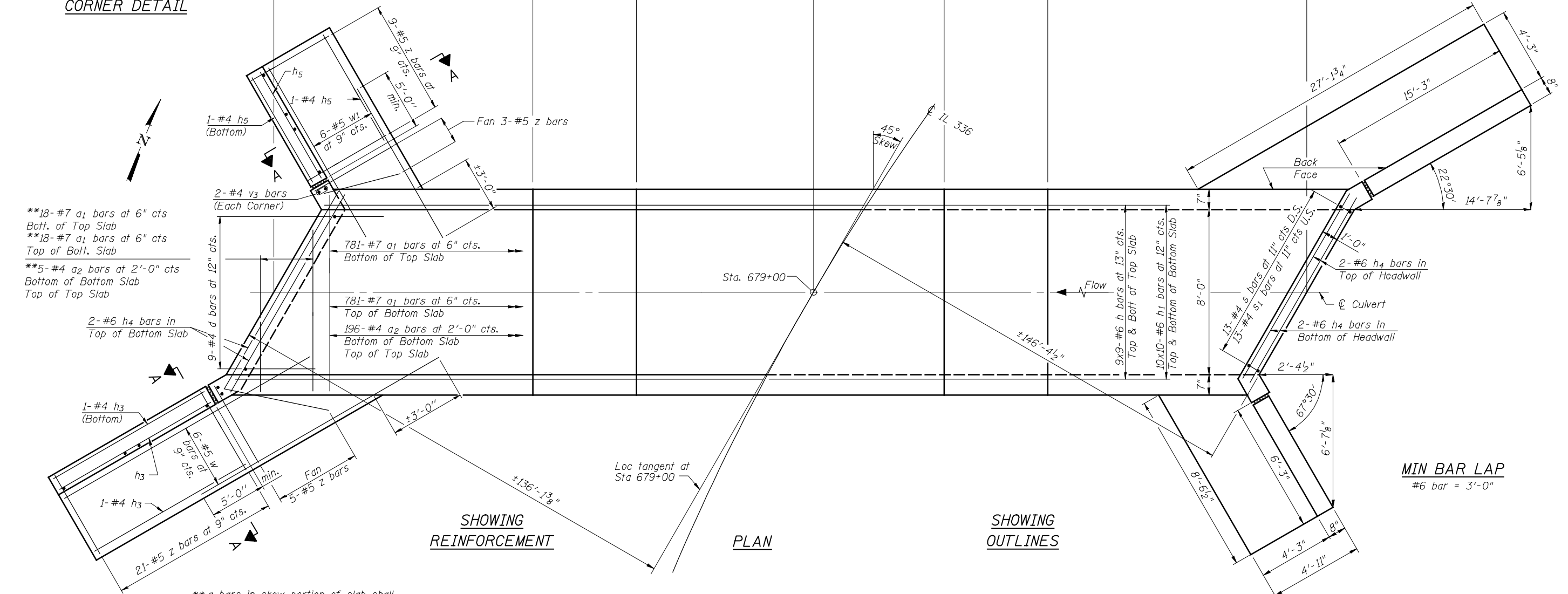
SHEET NO. 1 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	55-3	MCDONOUGH	671	212
			CONTRACT NO. 68418	

ILLINOIS FED. AID PROJECT



CORNER DETAIL



**18-#7 a₁ bars at 6\" cts
Boff. of Top Slab
**18-#7 a₁ bars at 6\" cts
Top of Bott. Slab
**5-#4 a₂ bars at 2'-0\" cts
Bottom of Bottom Slab
Top of Top Slab

**a bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.

Loc tangent at Sta 679+00

NOTES
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

MIN BAR LAP
#6 bar = 3'-0"

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SSB-L-R

7-1-10

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CONSULTING ENGINEERS
184-001897

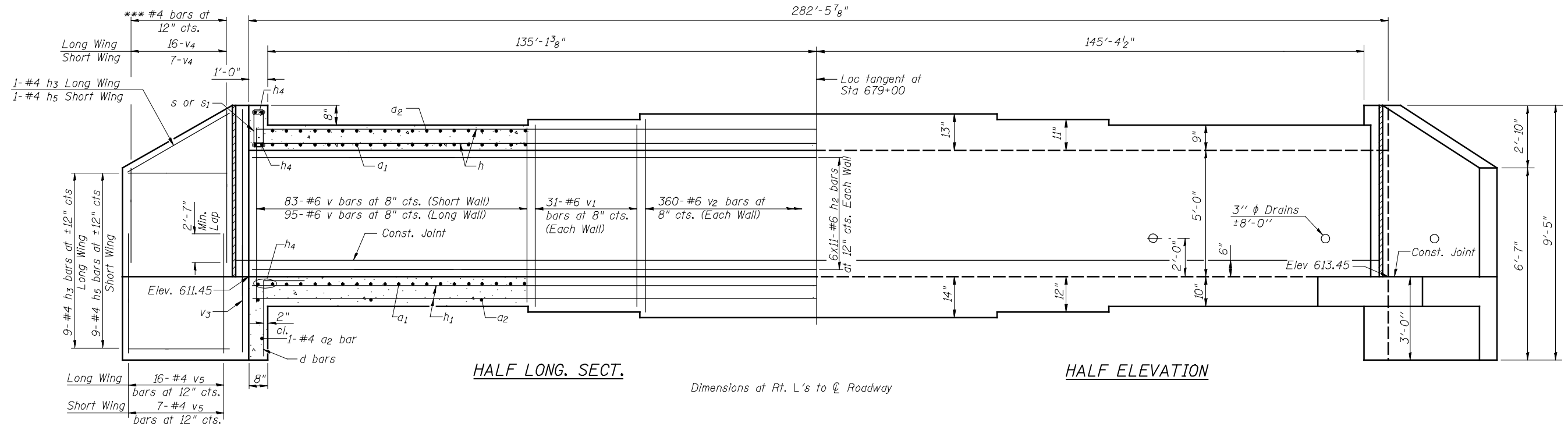
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST IN PLACE CULVERT PLAN
STATION 679+00

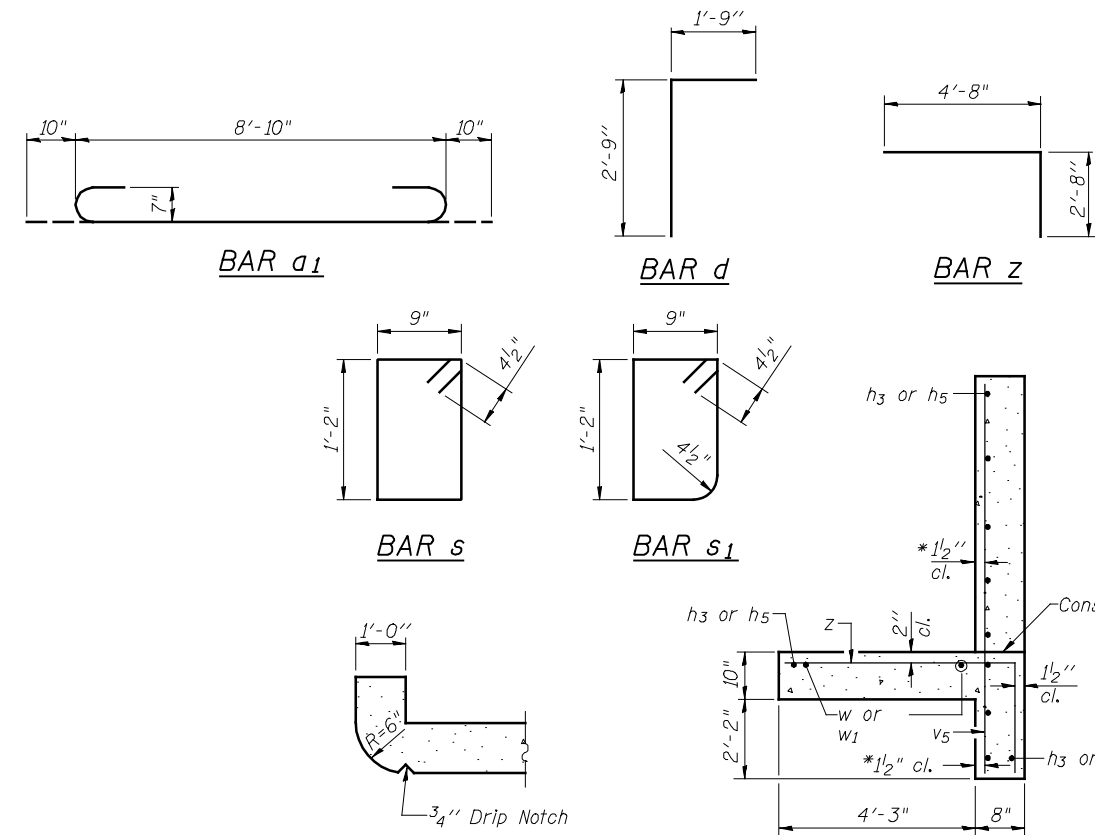
SHEET NO. 2 OF 3 SHEETS

F.A.P. RTE. 407	SECTION (55-3)A	COUNTY MCDONOUGH	TOTAL SHEETS 671	SHEET NO. 269
CONTRACT NO. 68A42			ILLINOIS FED. AID PROJECT	



Dimensions at Rt. L's to \odot Roadway

*** v_4 bars in wingwall shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.



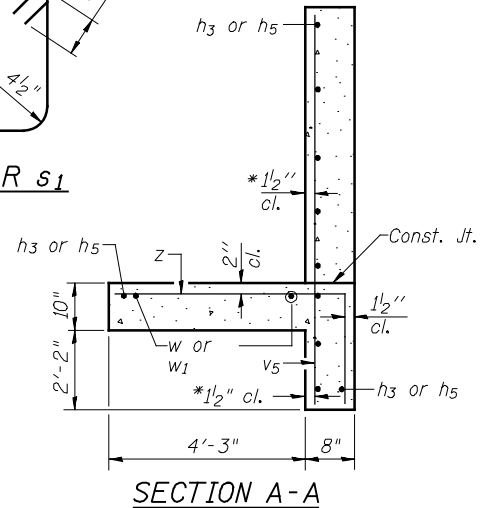
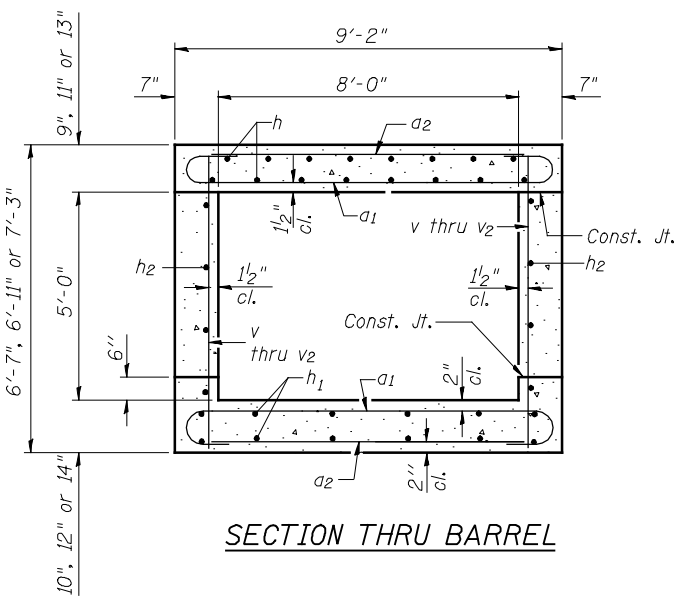
MIN BAR LAP
#6 bar = 3'-0"

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 Max. Soil Pressure under footing = 2626 psf
LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	1598	#7	10'-6"	U
a_2	404	#4	8'-10"	—
d	18	#4	4'-6"	T
h	162	#6	47'-1"	—
h_1	200	#6	42'-8"	—
h_2	132	#6	39'-1"	—
h_3	22	#4	15'-0"	—
h_4	12	#6	12'-8"	—
h_5	22	#4	6'-0"	—
s	13	#4	4'-7"	U
s_1	13	#4	4'-5"	U
v	356	#6	6'-3"	—
v_1	124	#6	6'-7"	—
v_2	720	#6	6'-11"	—
v_3	8	#4	9'-2"	—
v_4	23	#4	9'-6"	—
v_5	46	#4	5'-7"	—
w	12	#5	19'-9"	—
w_1	12	#5	10'-3"	—
z	76	#5	7'-4"	—
Concrete Box Culverts			Cu. Yd.	378.9
Reinforcement Bars			Pound	82,740



* v_5 bars shall not be placed more than 1/2" cl. from back face of wingwall.

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HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001897

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST IN PLACE CULVERT DETAILS
STATION 679+00

SHEET NO. 3 OF 3 SHEETS

F.AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	671	270
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

Existing Structure: none

INDEX OF SHEETS

1. General Plan and Elevation
2. Concrete Drop Box Details

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

CURVE DATA

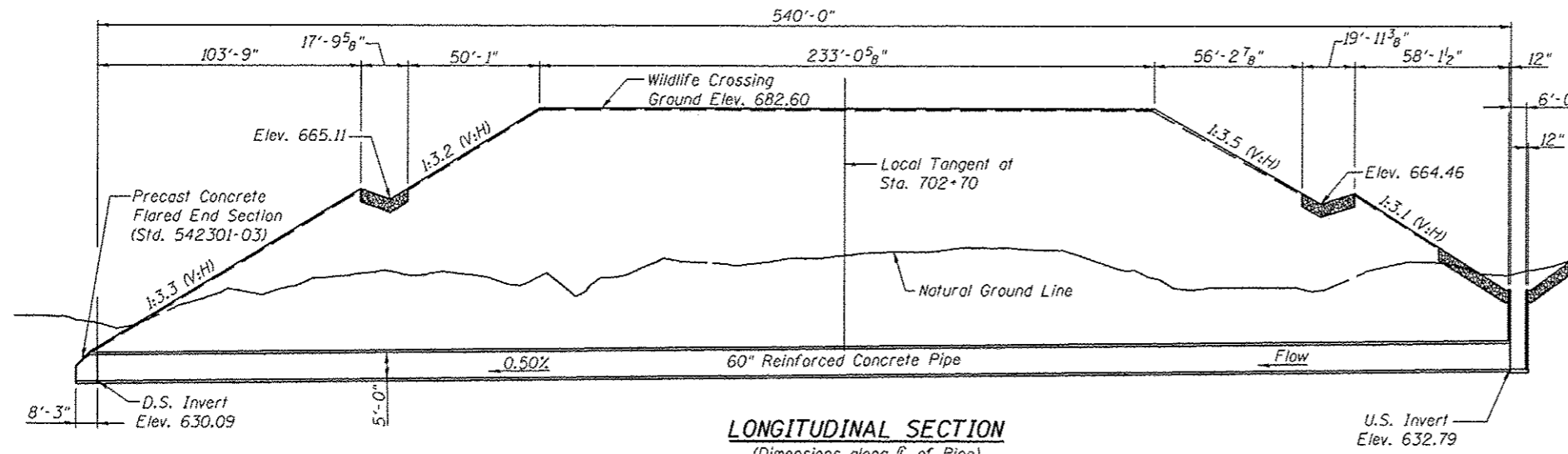
P.I. Sta. = 685+49.24
 $\Delta = 60^{\circ}-09'-14"$ Rt.
 $D = 1^{\circ}-16'-24"$
 $R = 4500'$
 $T = 2606.15$
 $L = 4724.48'$
 $E = 700.19'$
 $e = 4.1'$
 $T.R. = 41.42'$
 $S.E. Run = 4.1'$
 $P.C. Sta. = 659+43.10$
 $P.T. Sta. = 706+67.58$

TOTAL BILL OF MATERIAL

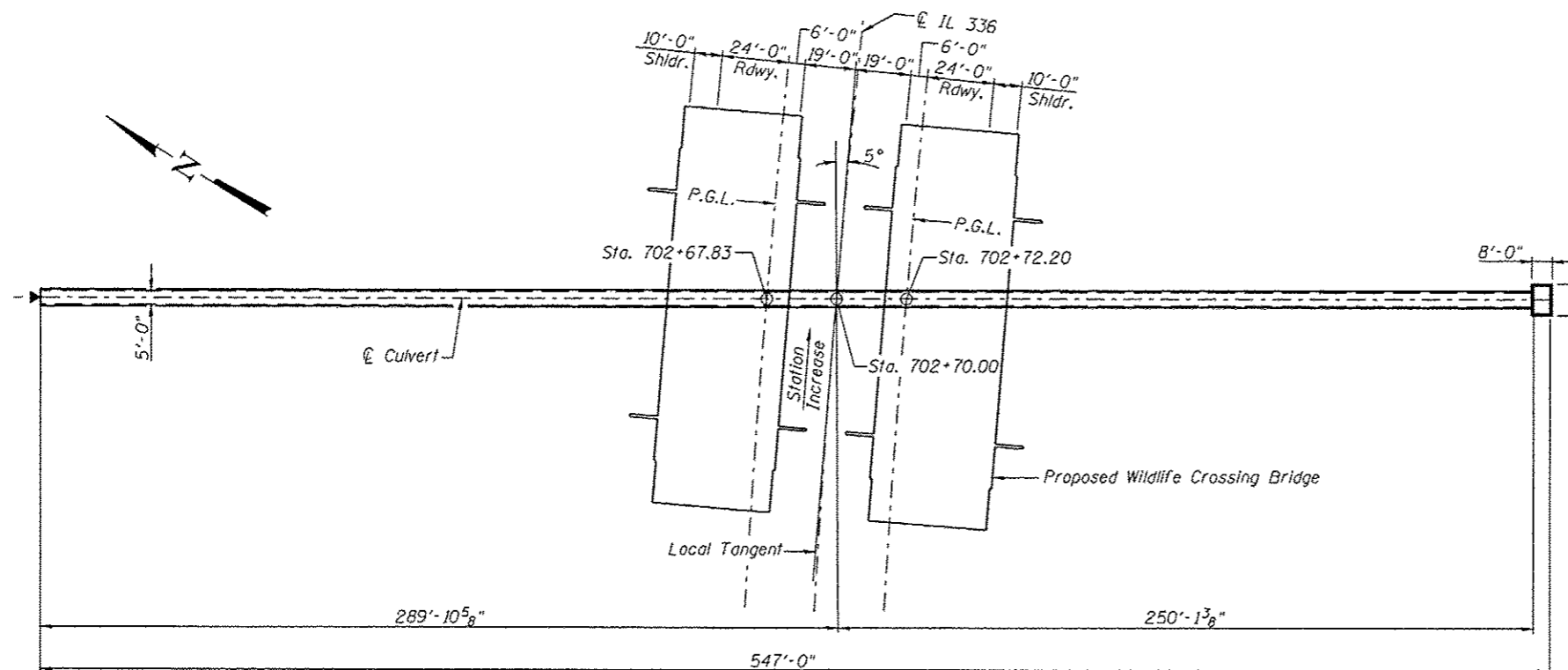
Item	Unit	Total
Pipe Handrail	Foot	36
Pipe Culverts, Special 60"	Foot	540
Precast Reinforced Concrete Flared End Sections, 60"	Each	1
Drop Box No. 1	Each	1

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f'_c = 4,500$ psi (Precast)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 65,000$ psi (Welded Wire Fabric)



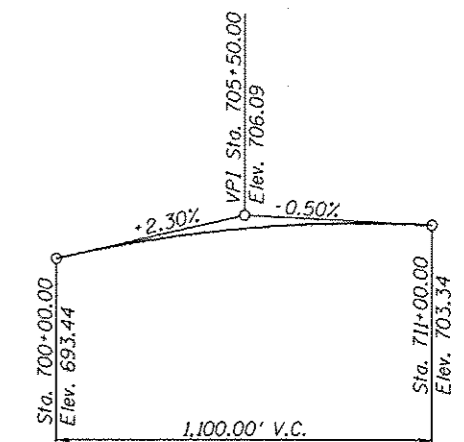
LONGITUDINAL SECTION
(Dimensions along \hat{C} of Pipe)
(Looking East)



PLAN

GENERAL NOTES

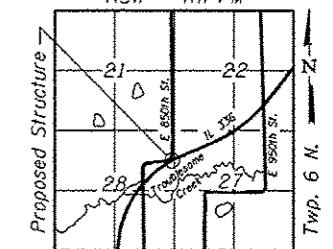
1. Concrete Pipe Culvert shall conform to the requirements of Section 542 of the Standard Specifications and the applicable requirements of AASHTO M259.
2. See Roadway plans for layout of riprap and riprap quantities.
3. Pipe Culvert shall be constructed before placing embankment for roadway.



PROFILE GRADE

(Along \hat{C} Roadway)

R3W - 4th PM



LOCATION SKETCH



Michael T. Haley, 12-5-12
 Michael T. Haley Date
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2014

GENERAL PLAN & ELEVATION

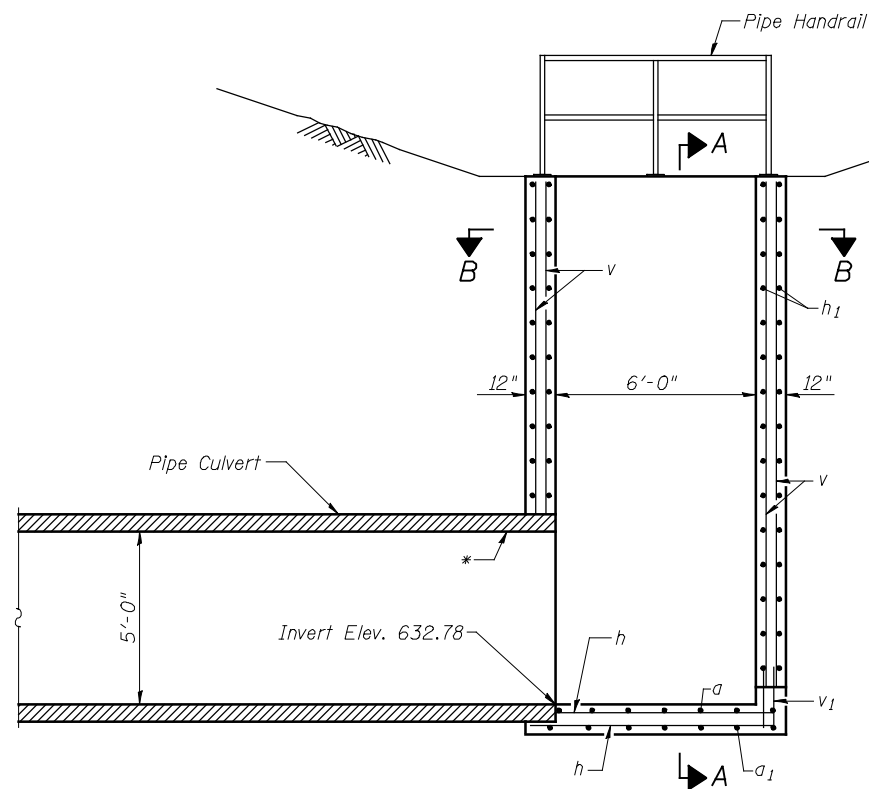
ILLINOIS ROUTE 336
OVER WILDLIFE CROSSING
F.A.P. 407-SEC. (55-3)A
MCDONOUGH COUNTY
STA. 702+70.00



USER NAME *	DESIGNED - PSS	REVISED -
FILE NAME *	CHECKED - TBP	REVISED -
PLOT SCALE *	DRAWN - AJF	REVISED -
PLOT DATE *	CHECKED - TBP	REVISED -

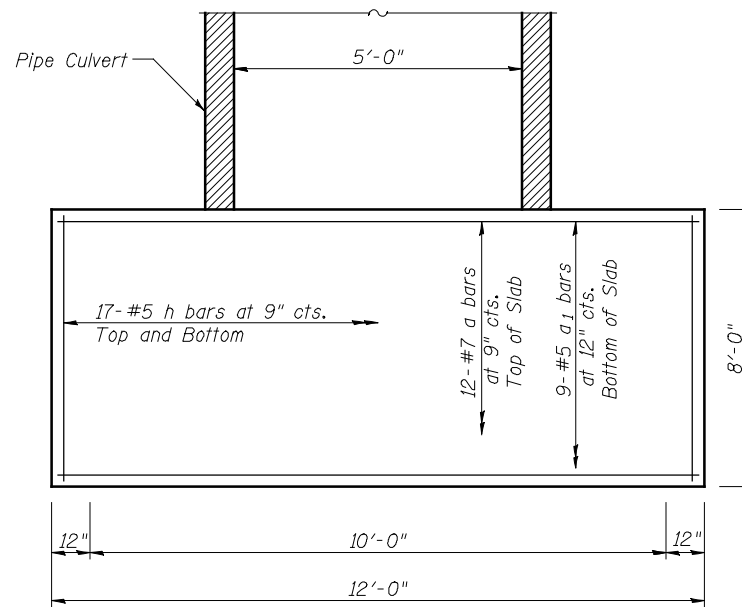
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE. 407	SECTION (55-3)A	COUNTY MCDONOUGH	TOTAL SHEETS 2	SHEET NO. 1
CONTRACT NO. 68A42			71.271	

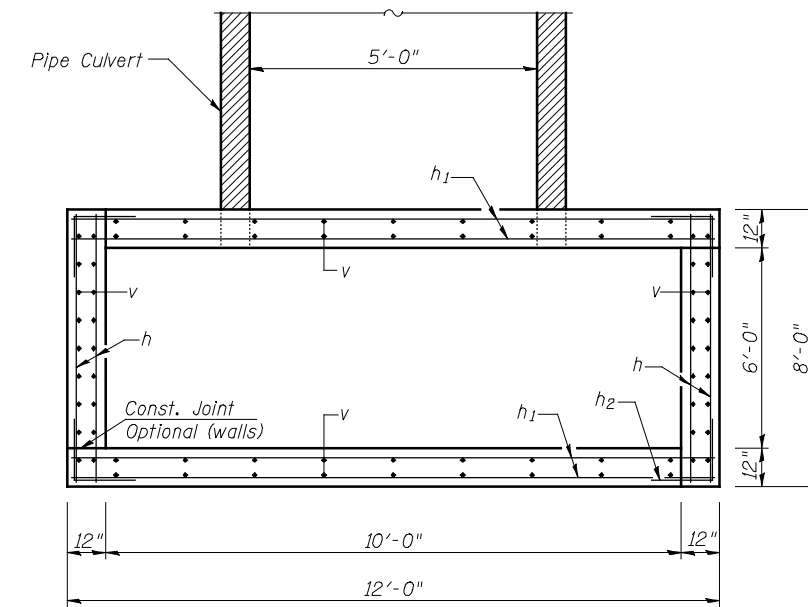


LONGITUDINAL SECTION

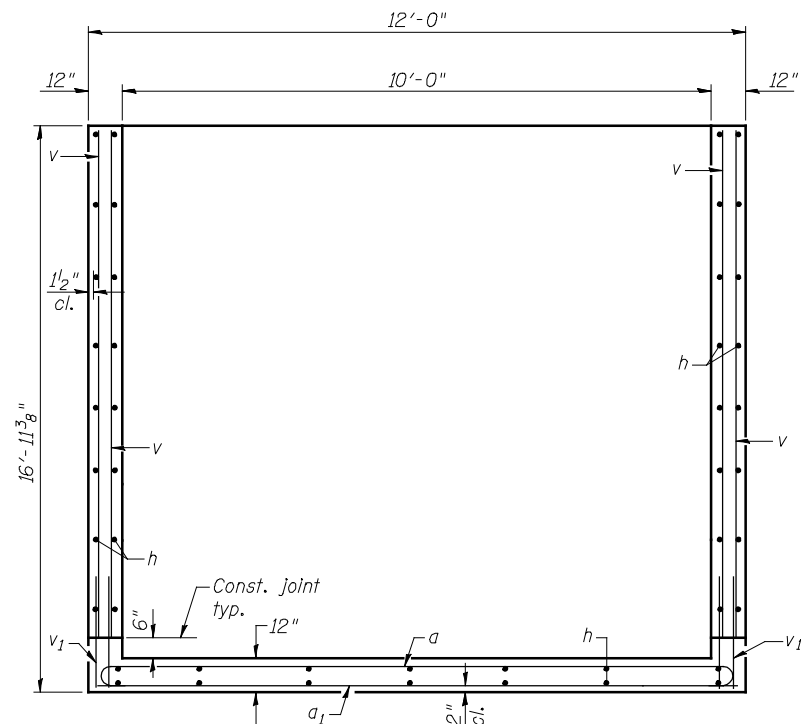
* Provide temporary support at end of pipe to support weight of wet concrete. Temporary support shall not be removed until 72 hours have elapsed after the pour and concrete has attained a minimum flexure of 650 psi or a compressive strength of 350 psi. Cost included with Pipe Culvert, Special 60".



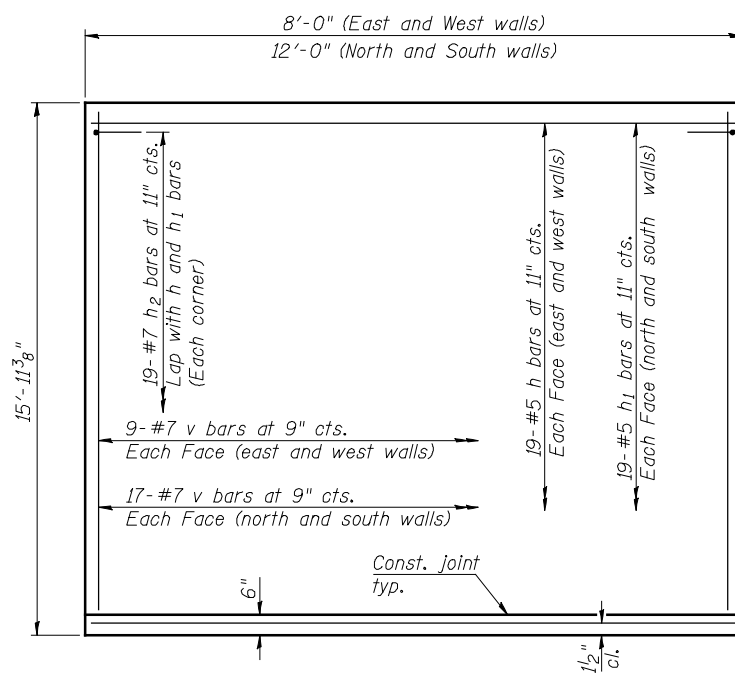
SLAB PLAN



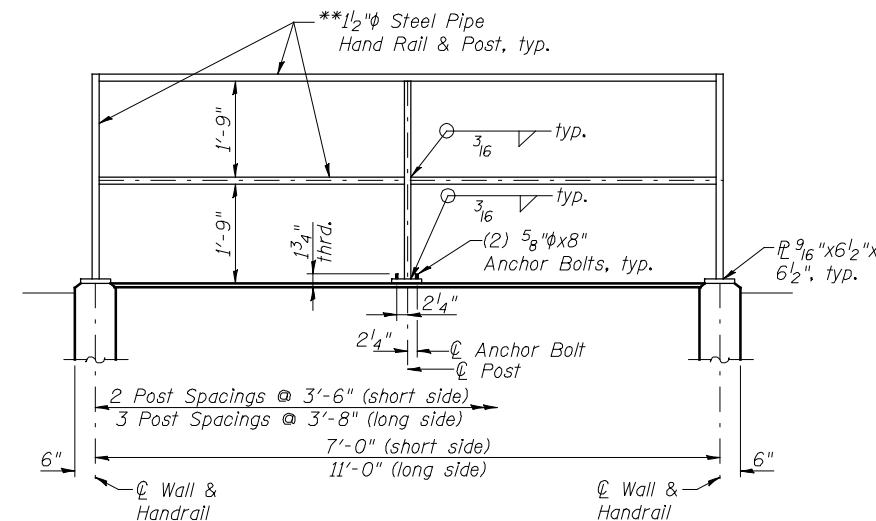
SECTION B-B



SECTION A-A



WALL LONG. SECTION



HANDRAIL ELEVATION

(Typical 4 Sides)

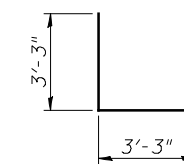
** All posts, rails, anchorage devices and plates shall be galvanized according to AASHTO M 111. All bolts, nuts and anchors shall be galvanized according to AASHTO M 232.

BILL OF MATERIAL

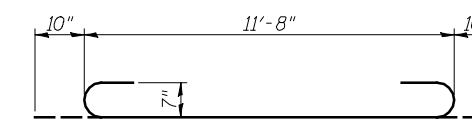
(For Information Only)

Bar	No.	Size	Length	Shape
a	12	#7	13'-4"	—
a1	9	#4	11'-8"	—
h	110	#5	7'-8"	—
h1	76	#5	11'-8"	—
h2	76	#7	6'-6"	—
v	104	#7	15'-2"	—
v1	104	#7	4'-7"	—
Concrete Box Culverts	Cu. Yd.		24.8	
Reinforcement Bars	Pound		7410	
Pipe Handrail	Foot		36	

Note:
Cut bars to miss precast pipe opening.
Anchor bolts shall be high strength bolts 5/8" φ, open holes 7/8" φ, unless noted otherwise.



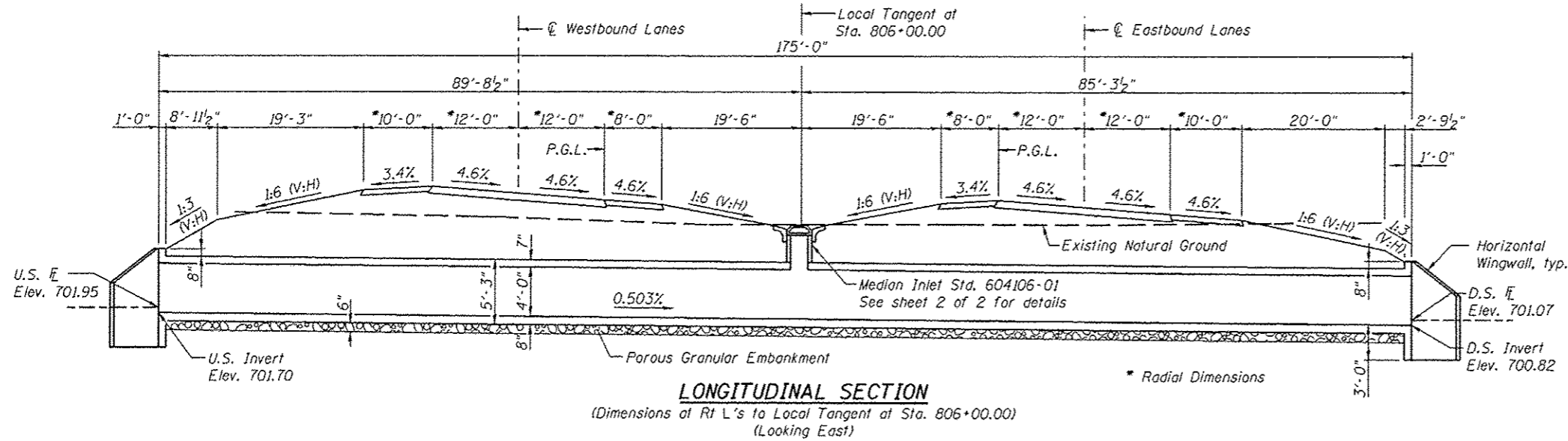
BAR h2



BAR a

Benchmark: Railroad Spike in power pole on 1500 N Rd., Sta. 5006+15, 30' Lt., Elev. 712.45.

Existing Structure: None

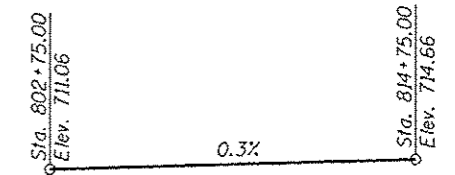


INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. Culvert Details

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	362
Reinforcement Bars	Pound	27,180
Concrete Box Culverts	Cu. Yd.	103.9

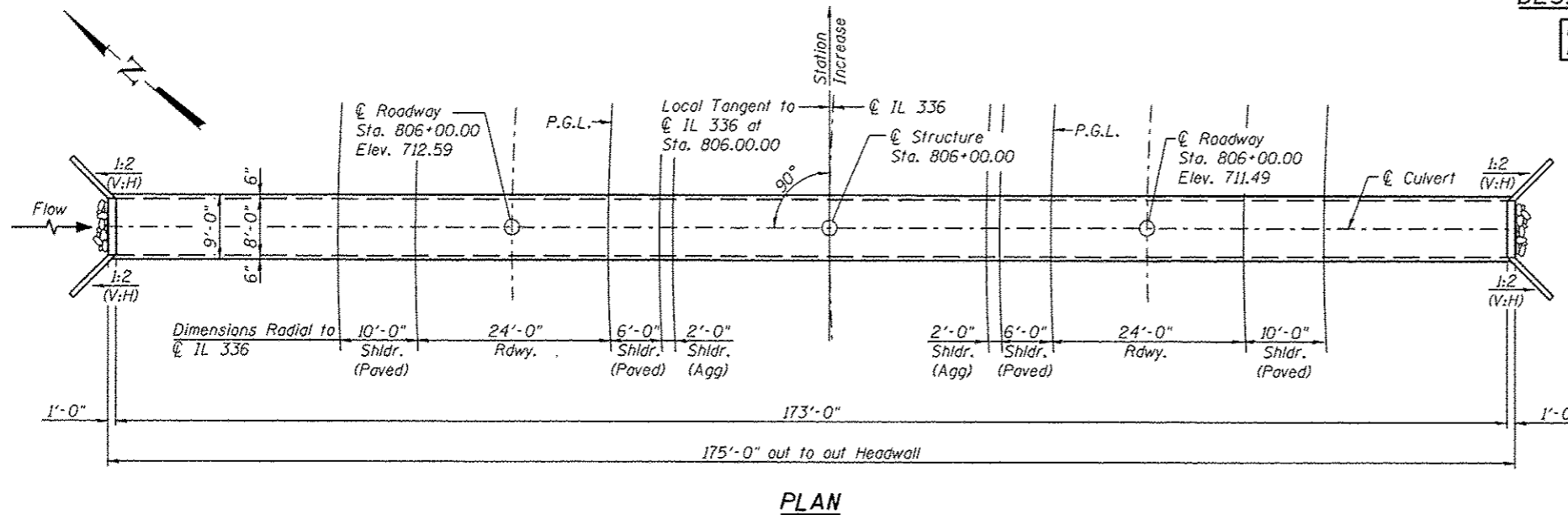


DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	U.S. Invert	D.S. Invert
	698.70	697.82

PROPOSED CURVE DATA

PROP. CURVE IL336-6
 P.I. STA. = 817+51.31
 $\Delta = 52^\circ 49' 20''$ (RT)
 $D = 1^\circ 30' 00''$
 $R = 3,820.00'$
 $T = 1,897.19'$
 $L = 3,521.74'$
 $E = 445.18'$
 $e = 4.6\%$
 $T.R. = 40.36'$
 $S.E. RUN = 206.10'$
 $P.C. STA. = 798+54.13$
 $P.T. STA. = 833+75.87$



GENERAL NOTES

Backfill within the limits of the paved surface to the top of culvert elevation shall be performed using Porous Granular Embankment.
 See Roadway plans for limits of Porous Granular Embankment.
 See Roadway plans for layout of riprap and riprap quantities.
 See Roadway plans for location and quantity of median inlet.
 Precast alternate is not allowed.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HL-93

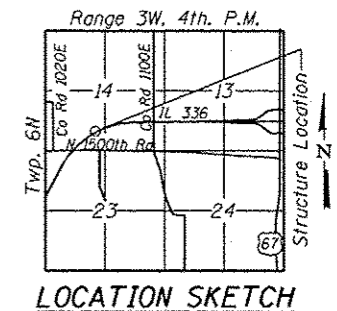
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS
 $f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



Michael T. Haley 11-28-12
 Date
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2014



GENERAL PLAN & ELEVATION

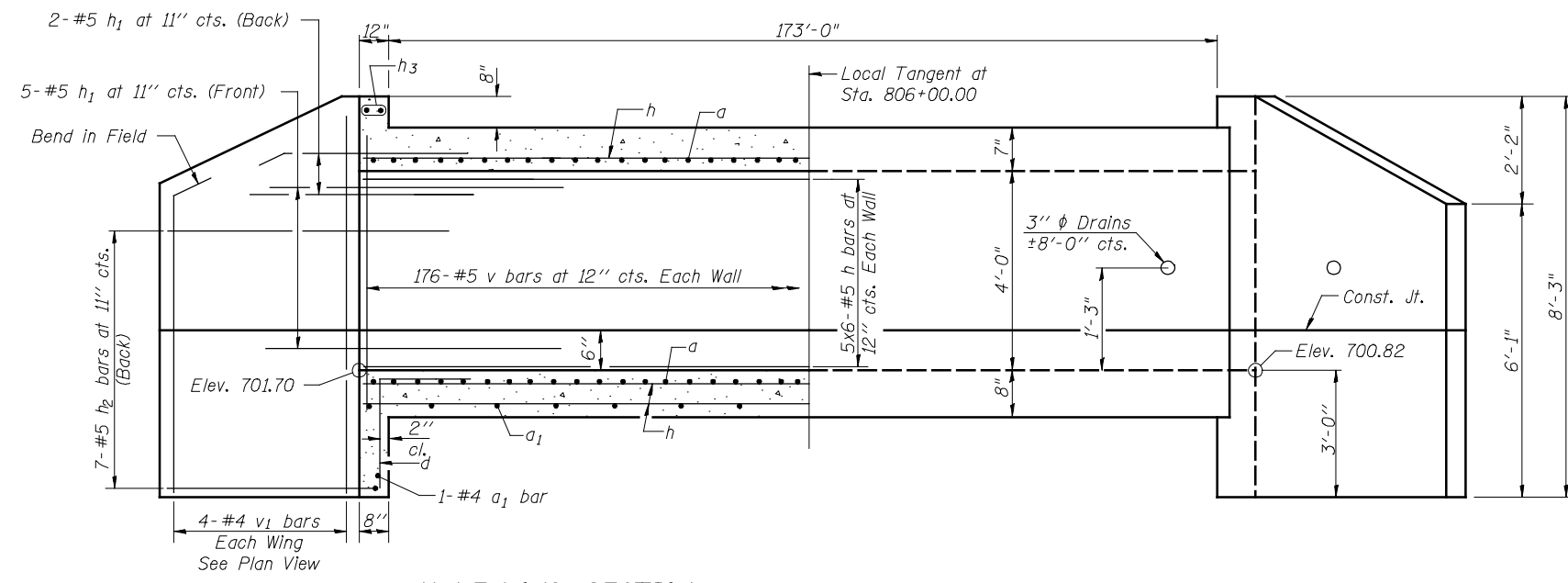
ILLINOIS ROUTE 336
OVER DRAINAGE DITCH
F.A.P. RTE. 407 - SEC. (55-3)A
MCDONOUGH COUNTY
STA. 806+00.00



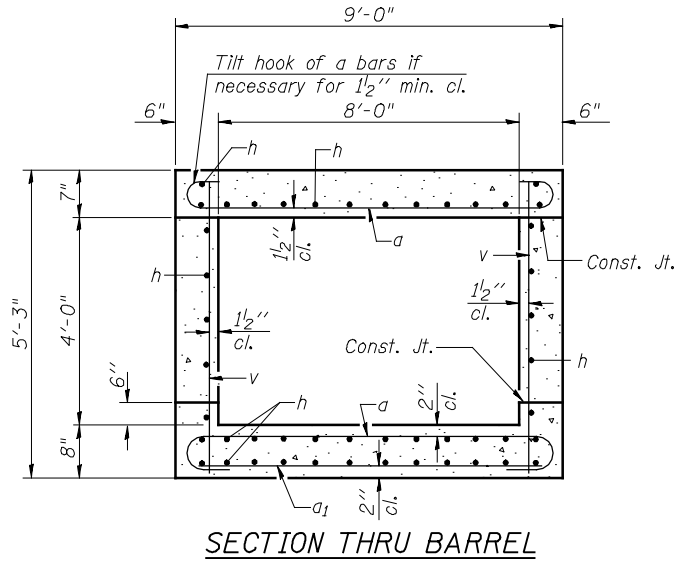
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FILE NAME *	CHECKED - TBP	REVISED -
PLOT SCALE *	DRAWN - AJF	REVISED -
PLOT DATE *	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

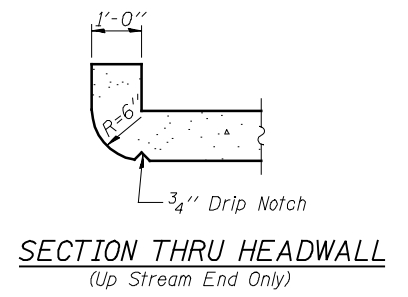
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	107	273



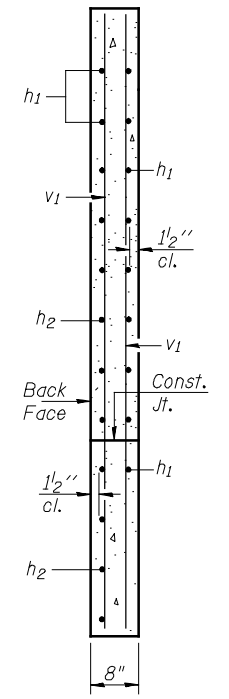
HALF LONG. SECTION HALF ELEVATION
 (Dimensions are at right angles to Local Tangent)



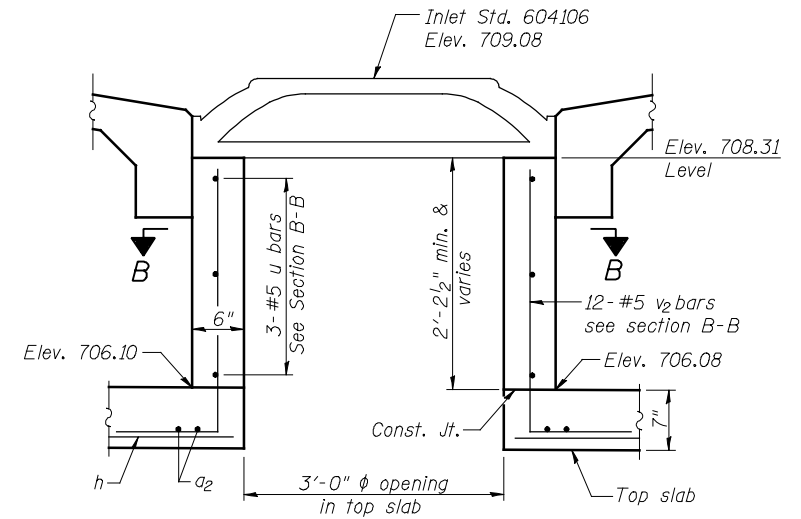
SECTION THRU BARREL



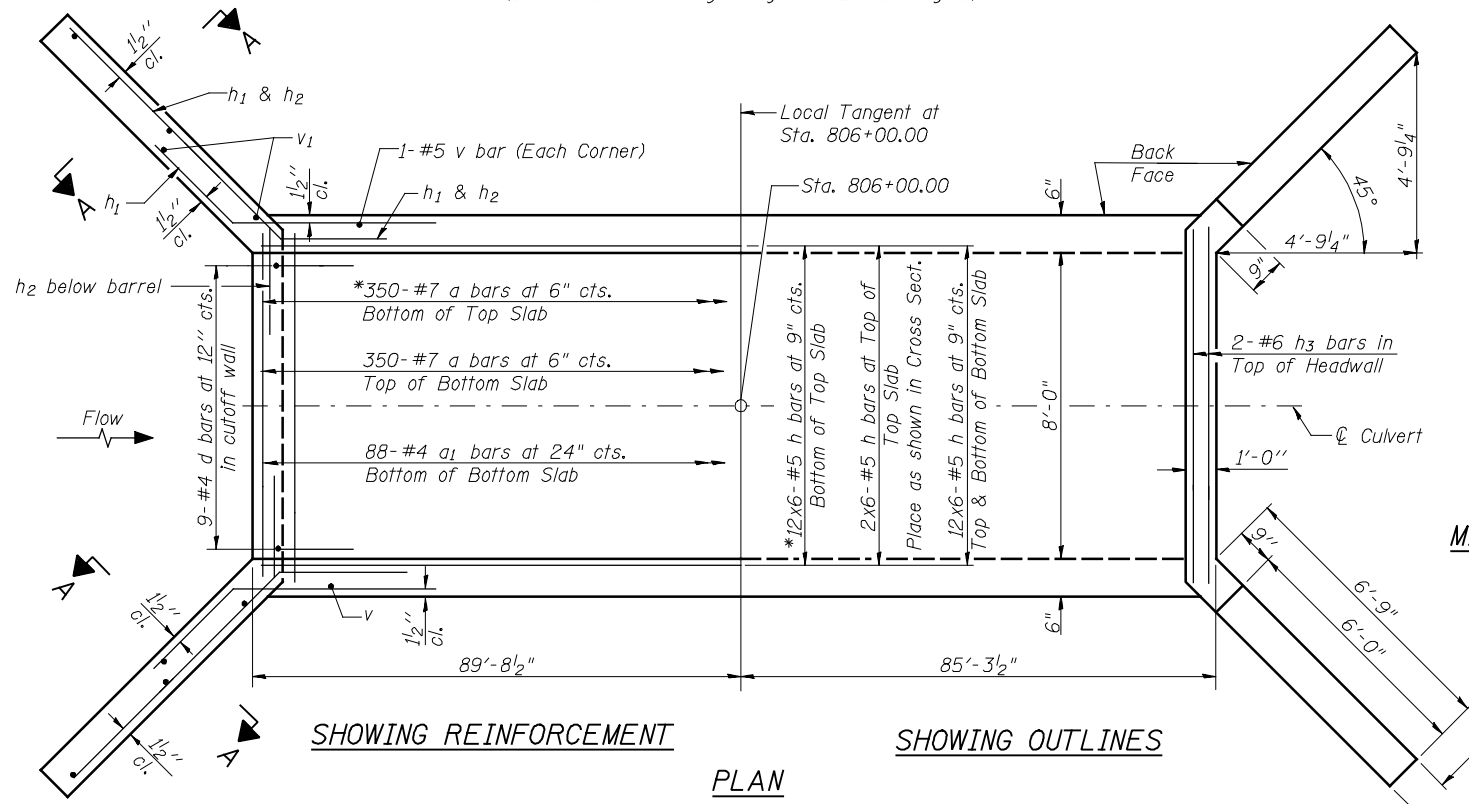
SECTION THRU HEADWALL
 (Up Stream End Only)



SECTION A-A

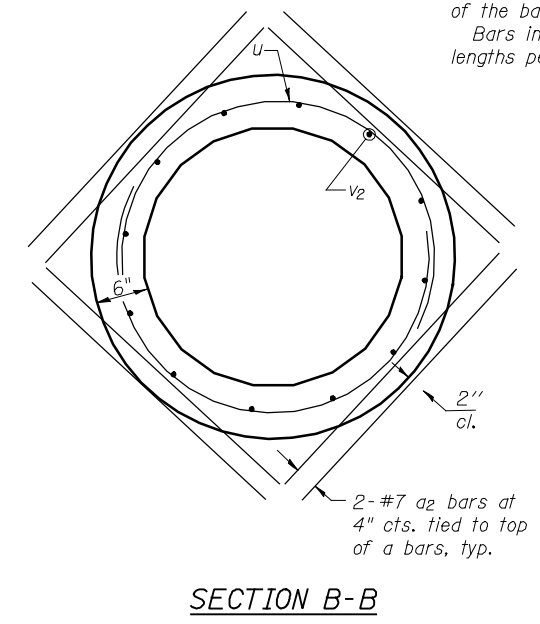
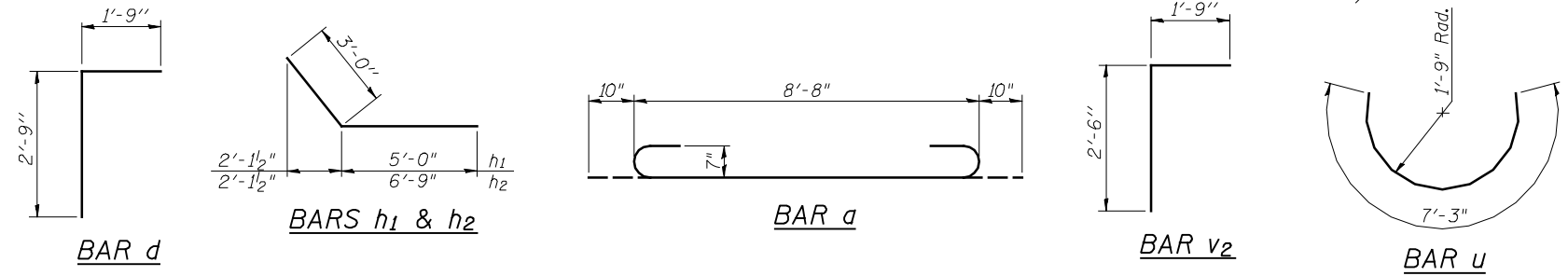


INLET OPENING DETAIL



SHOWING REINFORCEMENT SHOWING OUTLINES
PLAN

MIN. BAR LAP
 #5 Bar = 1'-9"



SECTION B-B

NOTES
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 Bars indicated thus 12 x 6-#5 etc. indicates 12 lines of bars with 6 lengths per line.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	700	#7	10'-4"	U
a1	88	#4	8'-8"	—
a2	8	#7	3'-8"	—
d	18	#4	4'-6"	L
h	288	#5	30'-7"	—
h1	28	#5	8'-0"	—
h2	28	#5	9'-9"	—
h3	4	#6	8'-8"	—
u	6	#5	7'-3"	C
v	356	#5	4'-11"	—
v1	16	#4	7'-11"	—
v2	12	#5	4'-3"	L
Concrete Box Culverts	Cu. Yd.		103.9	
Reinforcement Bars	Pound		27,180	



USER NAME =	DESIGNED - ZTB	REVISED -
FILE NAME =	CHECKED - TBP	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STA. 806 + 00.00

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	671	274
			CONTRACT NO. 68A42	

ILLINOIS FED. AID PROJECT - D 94-036-11

BM 101:
Chiseled "□" on N.E. corner headwall, N. side of 1500N Rd.
±300' E. to entrance to Stanley residence No. 10631.
Elev. 695.48

No existing structure.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Cast In Place Culvert Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Reinforcement Bars	Pound	24,820
Concrete Box Culverts	Cu Yd	124.8
Porous Granular Embankment	Cu Yd	634

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Downstream	Upstream
	697.09	698.01

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
6th Edition

DESIGN STRESSES

FIELD UNITS

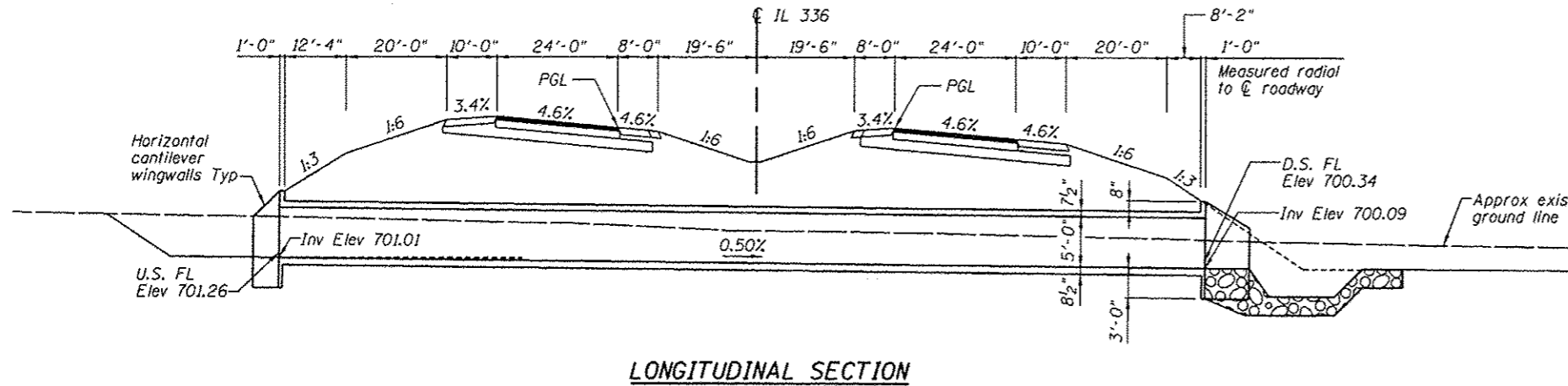
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

LOADING HL-93

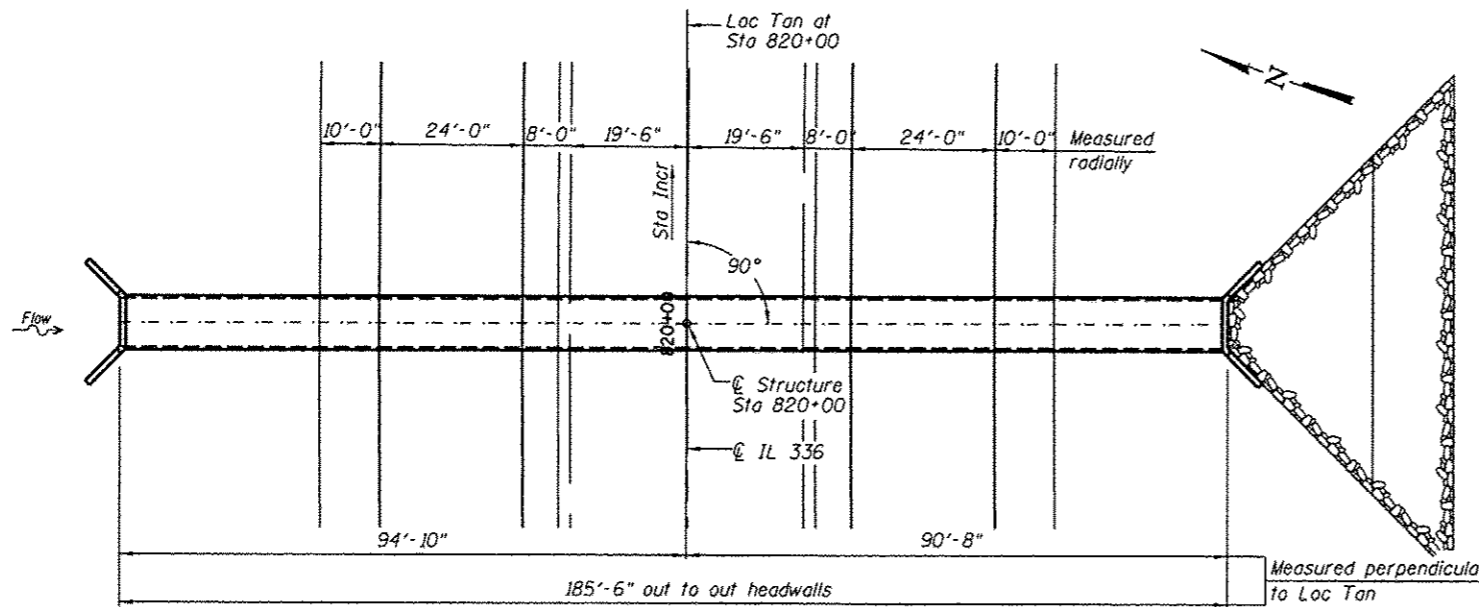
Allow 50#/sq. ft. for future wearing surface.

GENERAL NOTES:

- Precast alternate is not allowed.
- For porous granular embankment details, see Detail of Excavation and Backfill for Box Culverts Sheet.

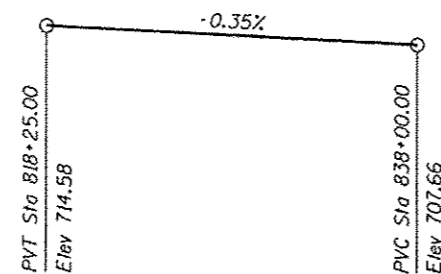


LONGITUDINAL SECTION

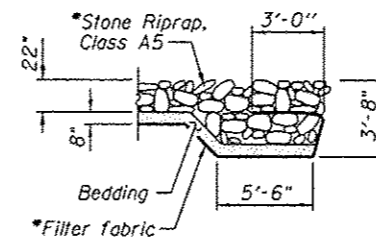


PLAN

PROP. CURVE IL336-6
PI STA. = 817+51.31
 $\Delta = 52^\circ 49' 20''$ (RT)
D = $1^\circ 30' 00''$
R = 3,820.00'
T = 1,897.19'
L = 3,521.74'
E = 445.18'
 $e = 4.6\%$
T.R. = 40.36'
S.E. RUN = 206.10'
P.C. STA. = 798+54.13
P.T. STA. = 833+75.87

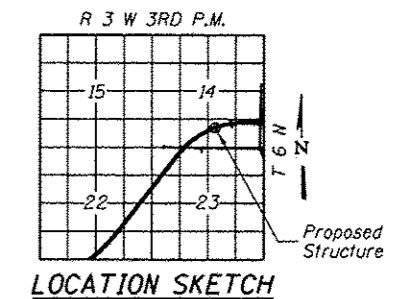
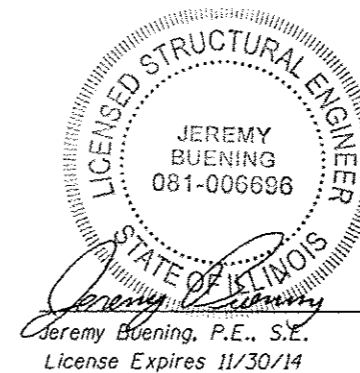


PROFILE GRADE - IL 336



RIPRAP FLANK DETAIL

*See Roadway Plans for details and quantities.



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION,
F.A.I. 407 (IL 336)
OVER DRAINAGE DITCH
MCDONOUGH COUNTY
STATION 820+00.00**

FILE NAME: I:\DDOT\9606 - HE.I.L.336\400.Structural\Box_Culverts\gn820-00.dgn

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
164-001597

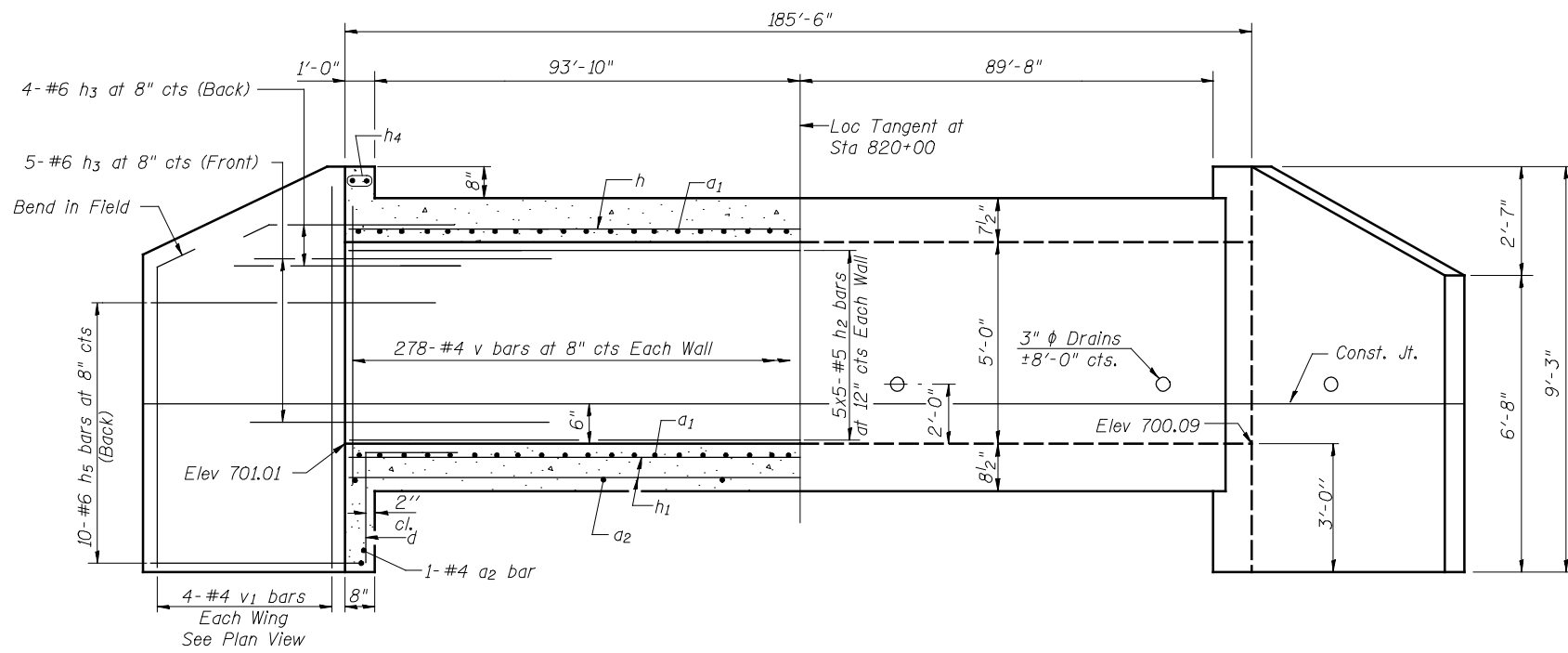
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PLOT SCALE = 32,0000 / in.	DRAWN RLK	REVISIONS -
PLOT DATE = 1/16/2013	CHECKED JMB	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
BOX CULVERT AT STA 820+00.00**
SHEET NO. 1 OF 2 SHEETS

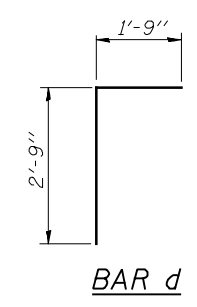
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	55-3	MCDONOUGH	67	275
				CONTRACT NO. 68418

ILLINOIS FED. AID PROJECT

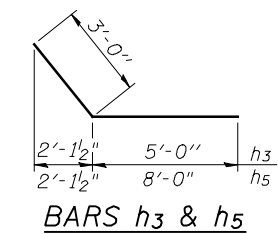


HALF LONG. SECTION

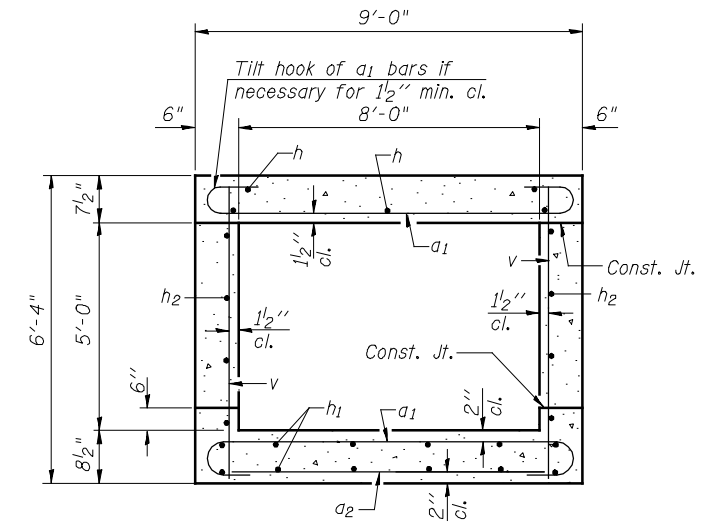
HALF ELEVATION



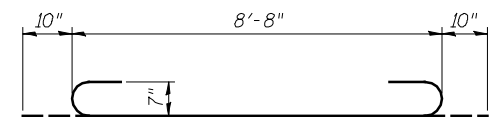
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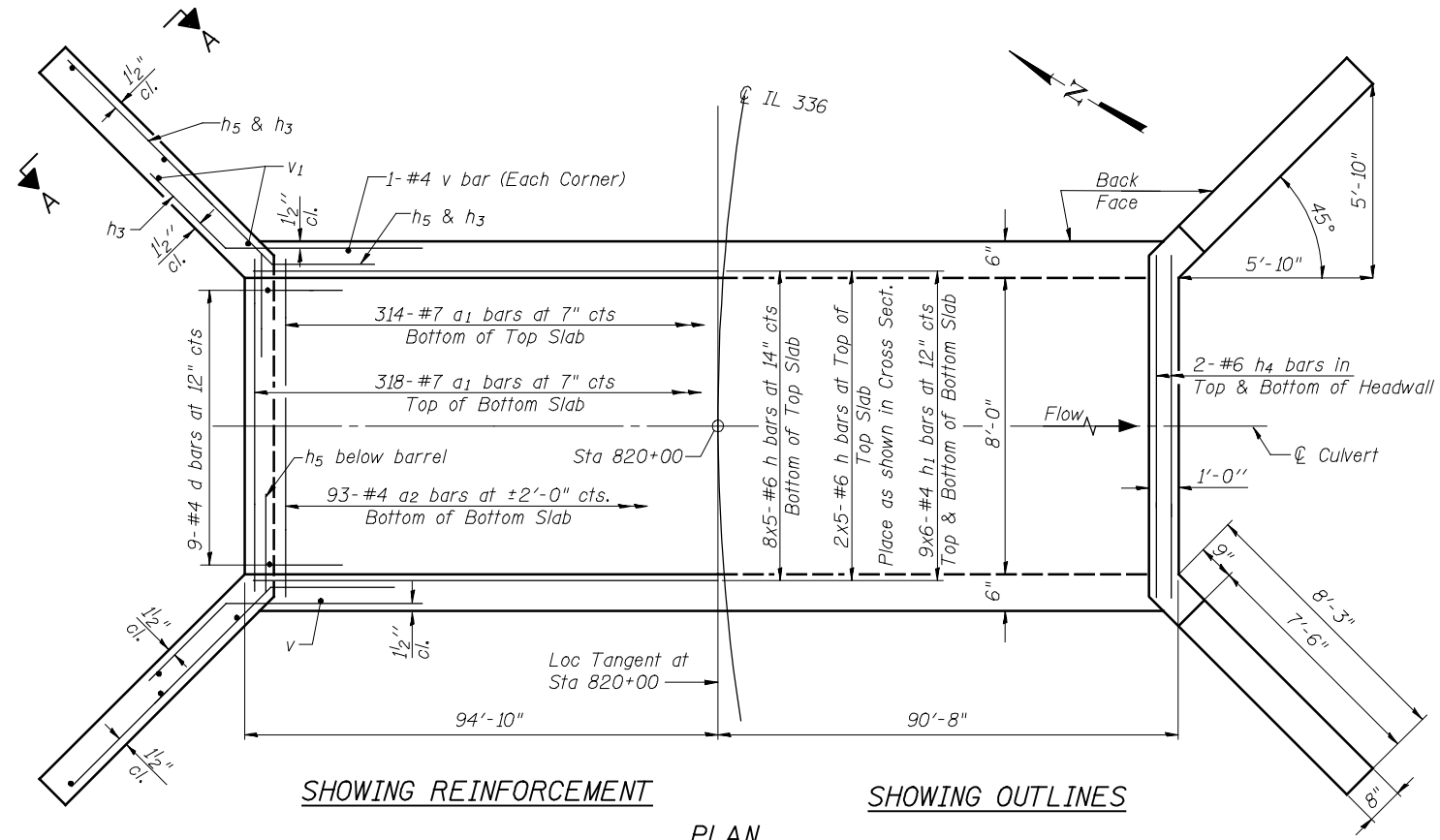
BARS h3 & h5



SECTION THRU BARREL



BAR a1



SHOWING REINFORCEMENT

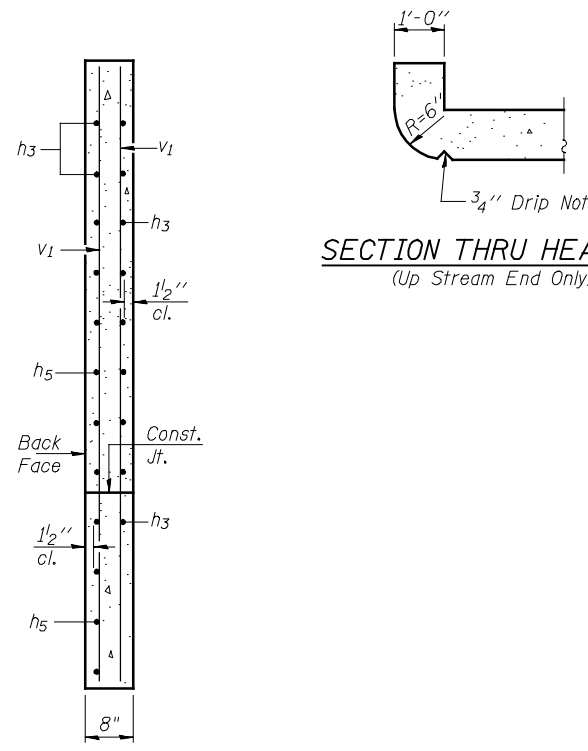
SHOWING OUTLINES

PLAN

NOTES

MIN BAR LAP
 #4 bar = 2'-0"
 #5 bar = 2'-6"
 #6 bar = 3'-0"

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
 Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60.



SECTION THRU HEADWALL
(Up Stream End Only)

SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	632	#7	10'-4"	C
a2	95	#4	8'-3"	—
d	18	#4	4'-6"	—
h	50	#6	39'-6"	—
h1	108	#4	32'-7"	—
h2	50	#5	39'-1"	—
h3	36	#6	8'-0"	—
h4	8	#6	8'-8"	—
h5	40	#6	11'-0"	—
v	560	#4	6'-0"	—
v1	16	#4	9'-0"	—
Concrete Box Culverts			Cu. Yd.	124.8
Reinforcement Bars			Pound	24,820

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SSB-H-0
 HOMER L. CHASTAIN & ASSOCIATES, LLP
 CONSULTING ENGINEERS
 184-001897

7-1-10
 USER NAME = jdean
 PLOT TIME = *TIME*
 PLOT SCALE = 20' = 1" IN.
 PLOT DATE = 12/12/2012

DESIGNED ACB
 CHECKED JMB
 DRAWN RLK
 CHECKED JMB
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAST IN PLACE CULVERT DETAILS
 STATION 820+00

SHEET NO. 2 OF 2 SHEETS

F.A.P. R.T.E. 407
 SECTION (55-3)A
 COUNTY MCDONOUGH
 TOTAL SHEETS 671
 SHEET NO. 276
 CONTRACT NO. 68A42
 ILLINOIS FED. AID PROJECT

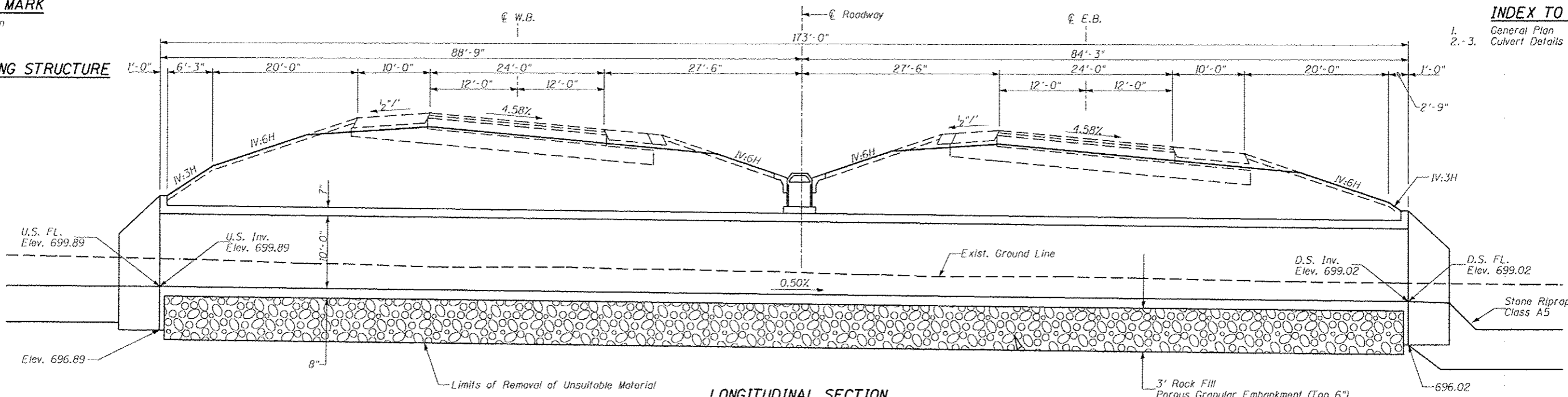
BENCH MARK

Description
Sta.
Elev.

INDEX TO SHEETS

- 1. General Plan
- 2.-3. Culvert Details

EXISTING STRUCTURE

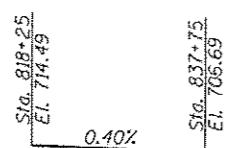
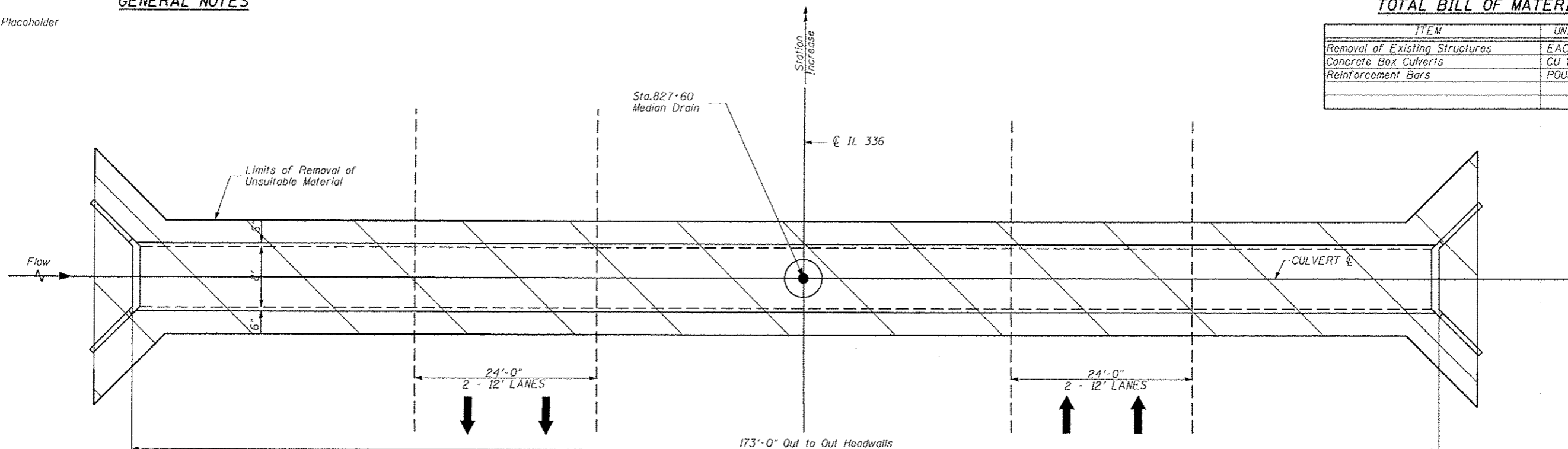


GENERAL NOTES

Placeholder

TOTAL BILL OF MATERIAL

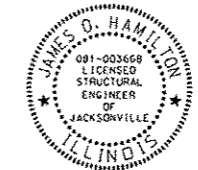
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Removal of Existing Structures	EACH	1
Concrete Box Culverts	CU YD	112
Reinforcement Bars	POUND	24,120



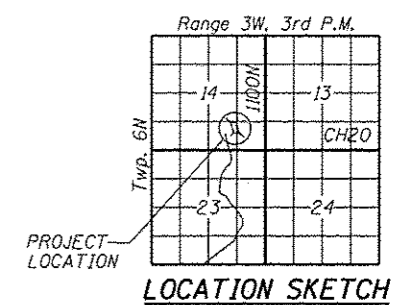
LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

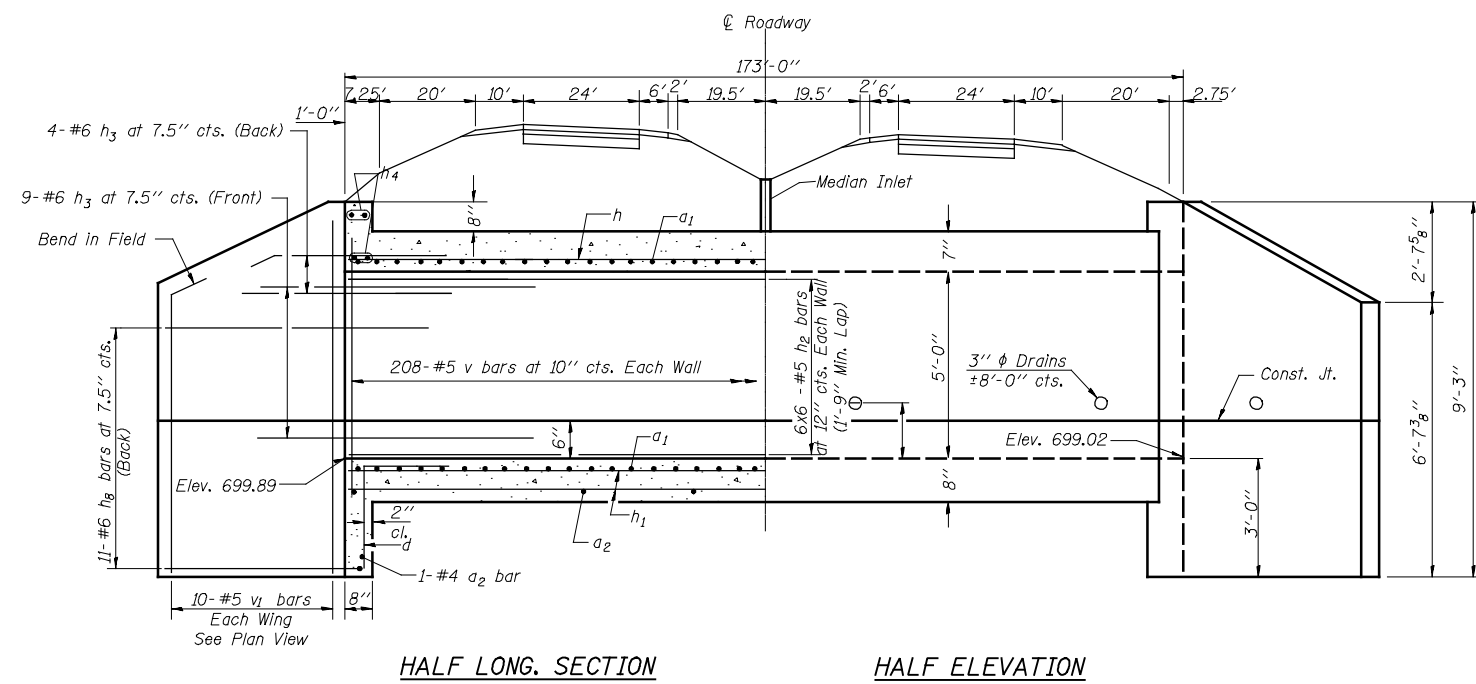
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)



James O. Hamilton date: 12/10/2012
Expires: 11/30/2014

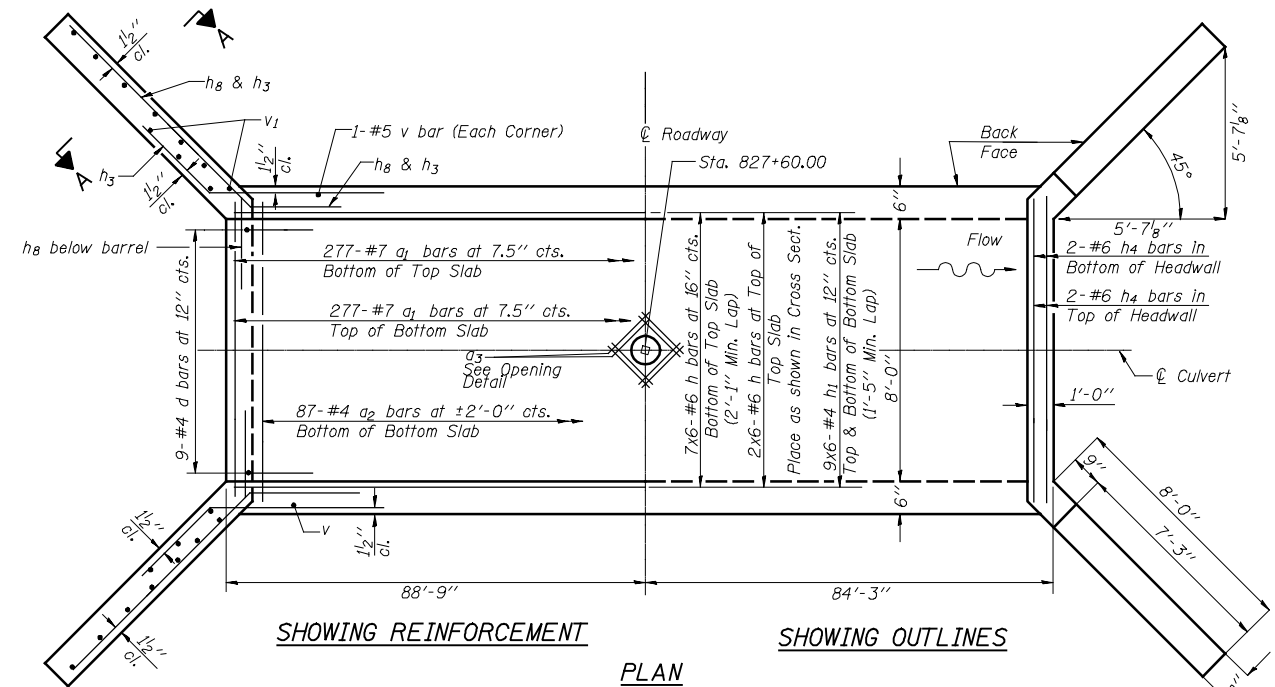


FILE NAME *	USER NAME = jdoen	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STA 827 + 60.00			F.A.P. RTE. 407	SECTION 655-31A	COUNTY MCDONOUGH	TOTAL SHEETS 671	SHEET NO. 277
MAN Final\CULVERT PLAN SHEET 827+60.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 68A42			
PLOT SCALE = 15,888.000 FT / IN.		CHECKED - JOH	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 1/16/2013		DATE - 12-12-12	REVISED -									



HALF LONG. SECTION

HALF ELEVATION



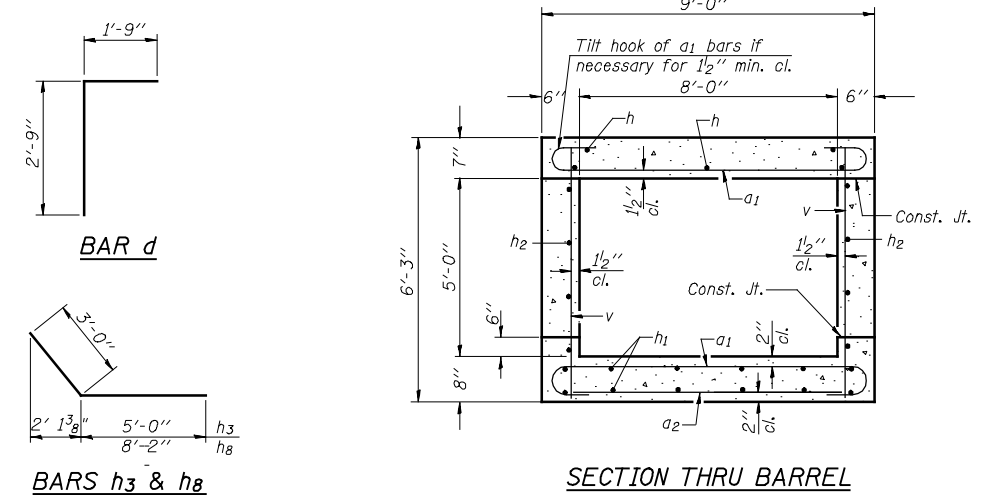
SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

NOTES

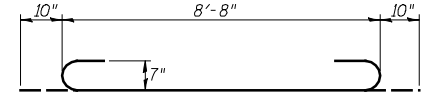
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.



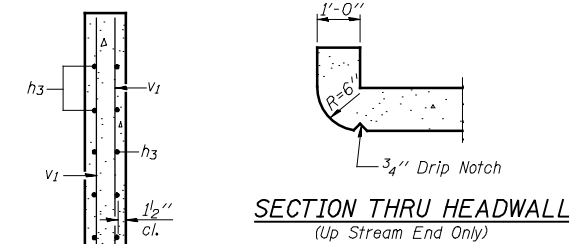
BAR d

BARS h3 & h8

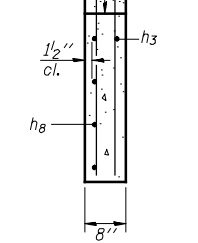
SECTION THRU BARREL



BAR a1



SECTION THRU HEADWALL
(Up Stream End Only)



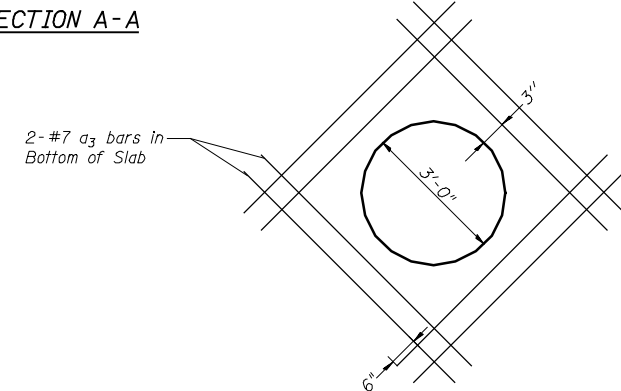
SECTION A-A

DESIGN STRESSES

$f_y = 60,000$ psi
 $f'_c = 3,500$ psi

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	554	#7	10'-4"	U
a2	89	#4	8'-3"	—
a3	8	#7	5'-2"	—
d	18	#4	4'-6"	L
h	54	#6	30'-7"	—
h1	108	#4	30'-0"	—
h2	72	#5	30'-4"	—
h3	52	#6	8'-0"	—
h4	8	#6	8'-8"	—
h8	44	#6	11'-2"	—
v	420	#5	5'-11"	—
v1	40	#5	8'-11"	—
Concrete Box Culverts			Cu. Yd.	112
Reinforcement Bars			Pound	24,120



OPENING DETAIL

(Cut reinforcement to miss opening)
 Note: Bars to be attached to top of bottom reinforcement.
 To be placed at 45° to principal reinforcement as shown.

SSB-H-0 7-1-10

Benchmark: Railroad Spike in power pole on 1500 N Rd., Sta. 6025+15, 24' Rt., Elev. 714.88.

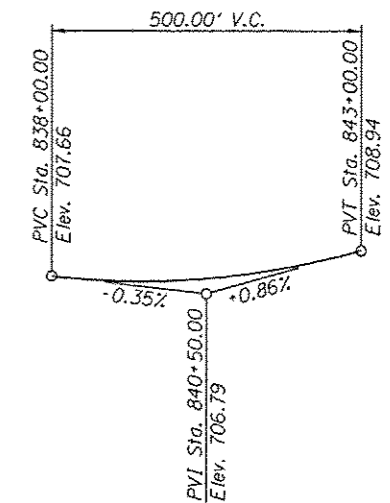
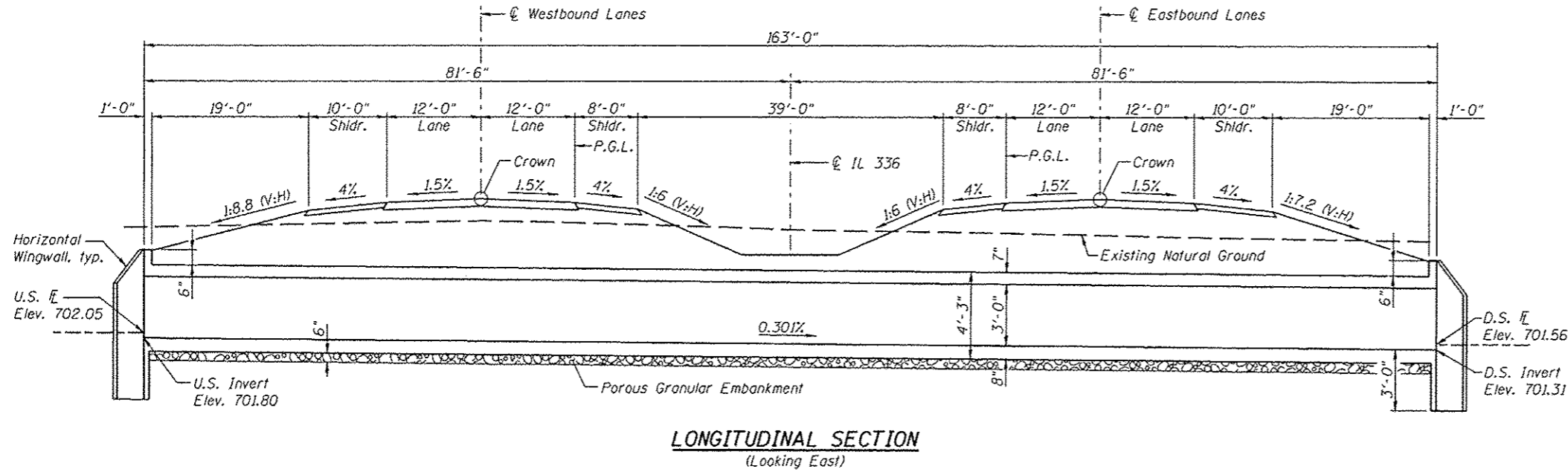
Existing Structure: None

INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. Culvert Details

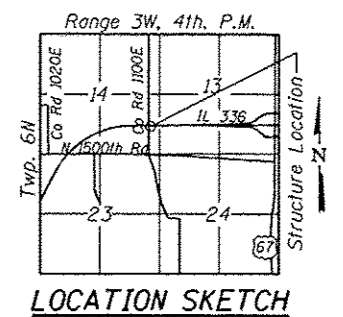
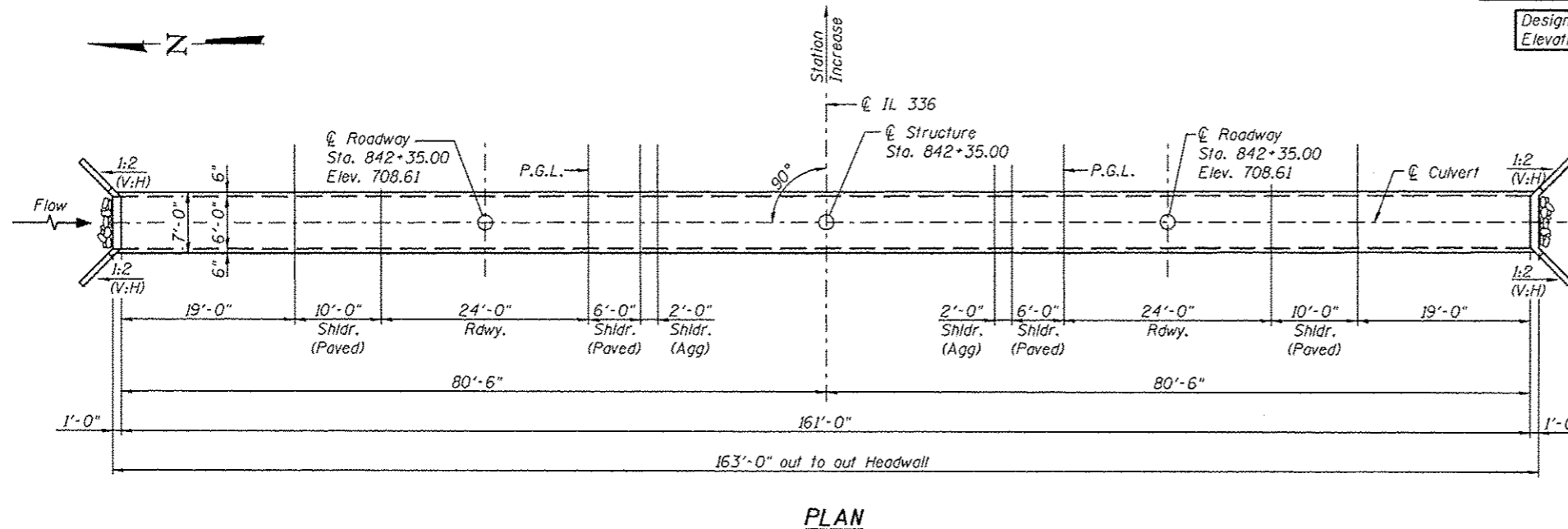
TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	114
Reinforcement Bars	Pound	13,030
Concrete Box Culvert	Cu. Yd.	74.7



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	U.S. Invert	D.S. Invert
	698.80	698.31



GENERAL NOTES

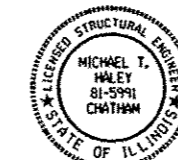
Backfill within the limits of the paved surface to the top of culvert elevation shall be performed using Porous Granular Embankment. See Roadway plans for layout of riprap and riprap quantities. See Roadway plans for limits of Porous Granular Embankment. Precast alternate is not allowed.

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HL-93
Allow 50# / sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)



Michael J. Haley 11-28-12
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2014

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 336
OVER DRAINAGE DITCH
F.A.P. RTE. 407 - SEC. (55-3)A
MCDONOUGH COUNTY
STA. 842+35.00



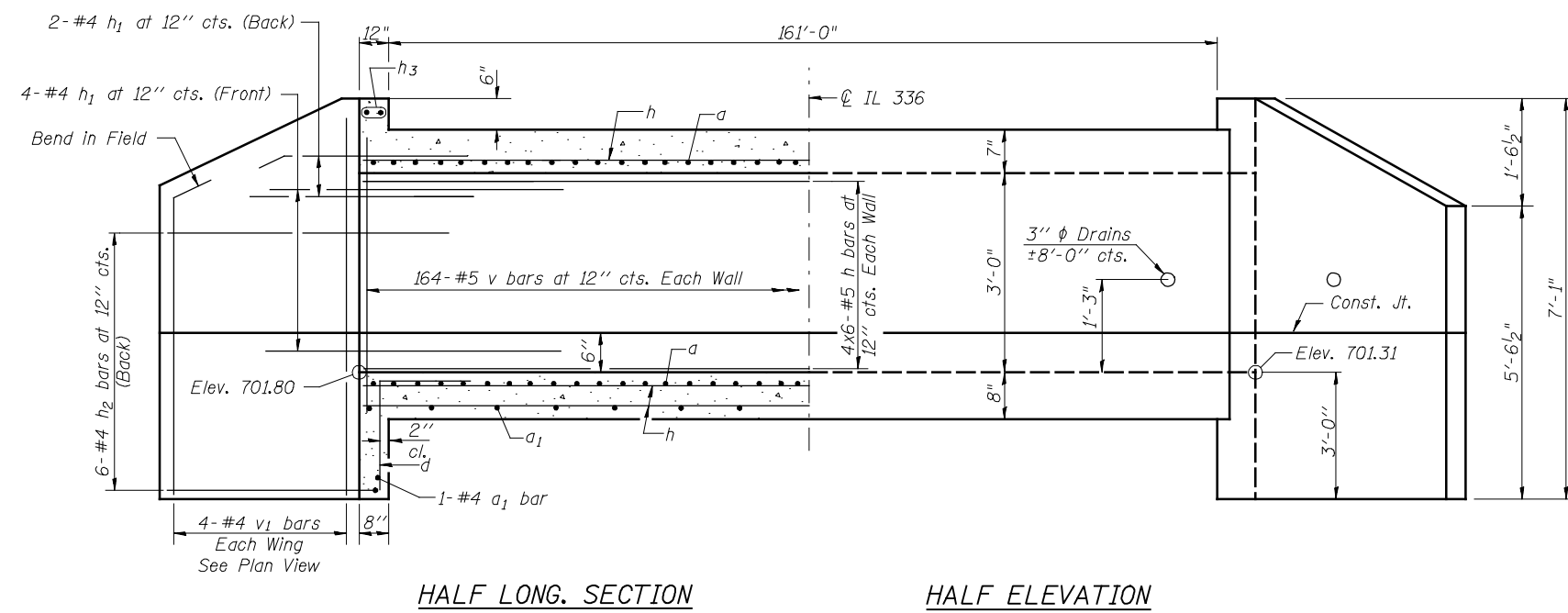
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FILE NAME *	CHECKED - TBP	REVISED -
PLOT SCALE *	DRAWN - AJF	REVISED -
PLOT DATE *	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 2 SHEETS

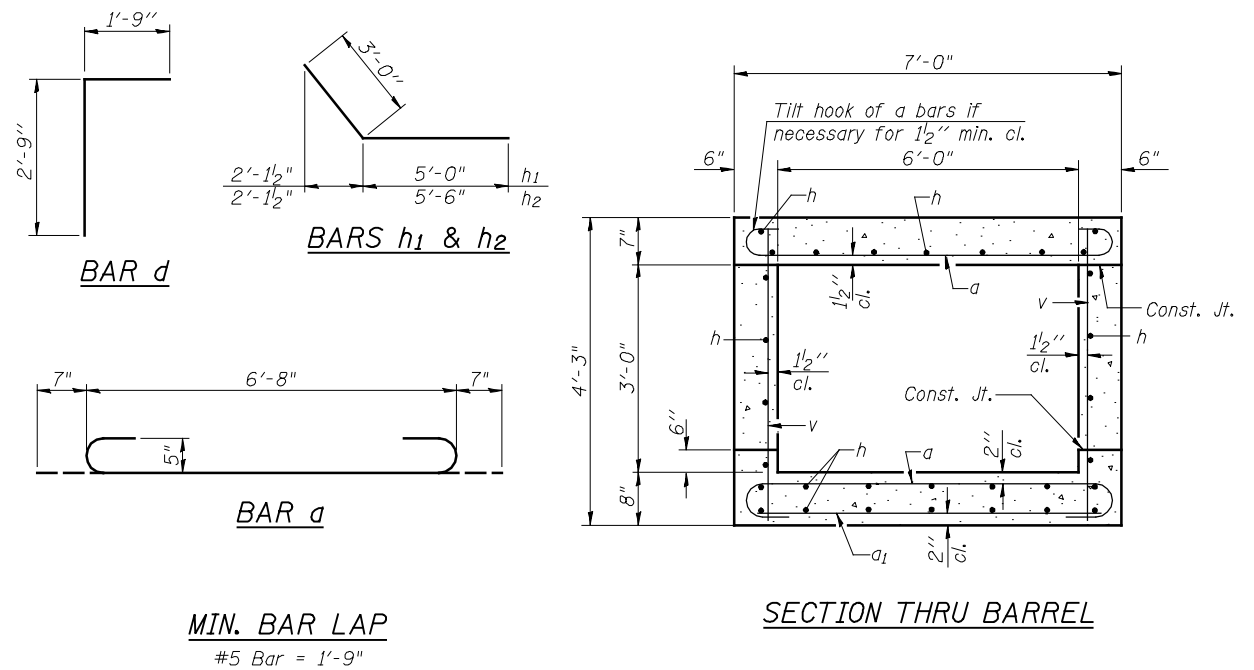
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	155-31A	MCDONOUGH	671	279

ILLINOIS FED. AID PROJECT - 0-94-036-11



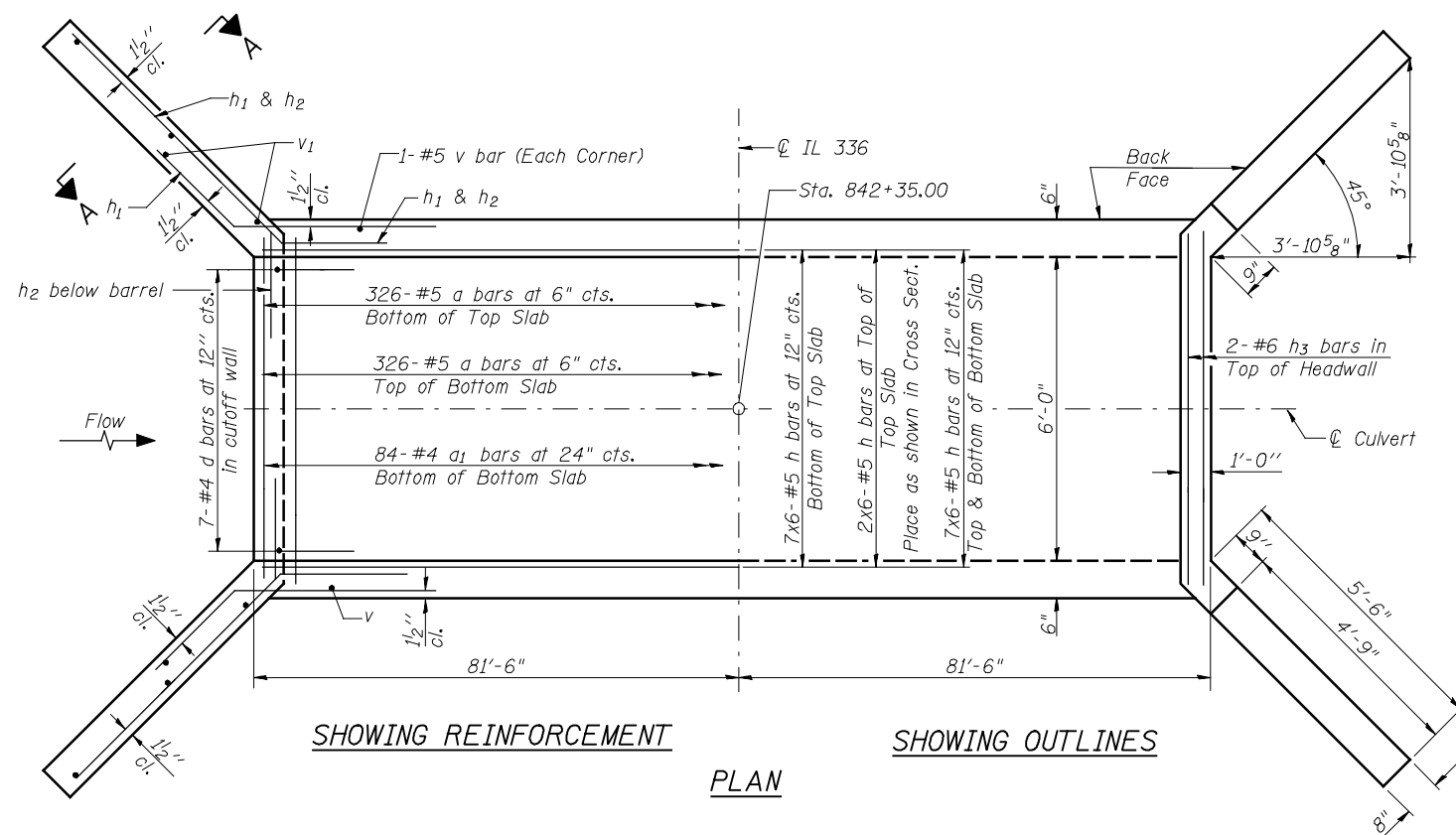
HALF LONG SECTION

HALF ELEVATION



MIN. BAR LAP
#5 Bar = 1'-9"

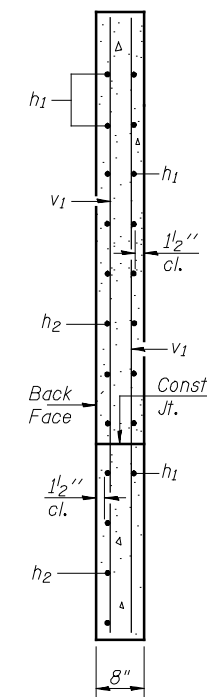
SECTION THRU BARREL



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN



SECTION A-A

SECTION THRU HEADWALL
(Up Stream End Only)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	652	#5	7'-10"	U
a1	84	#4	6'-8"	—
d	14	#4	4'-6"	U
h	186	#5	28'-7"	—
h1	24	#4	8'-0"	—
h2	24	#4	8'-6"	—
h3	4	#6	6'-8"	—
v	332	#5	3'-11"	—
v1	16	#4	6'-9"	—
Concrete Box Culverts			Cu. Yd.	74.7
Reinforcement Bars			Pound	13030

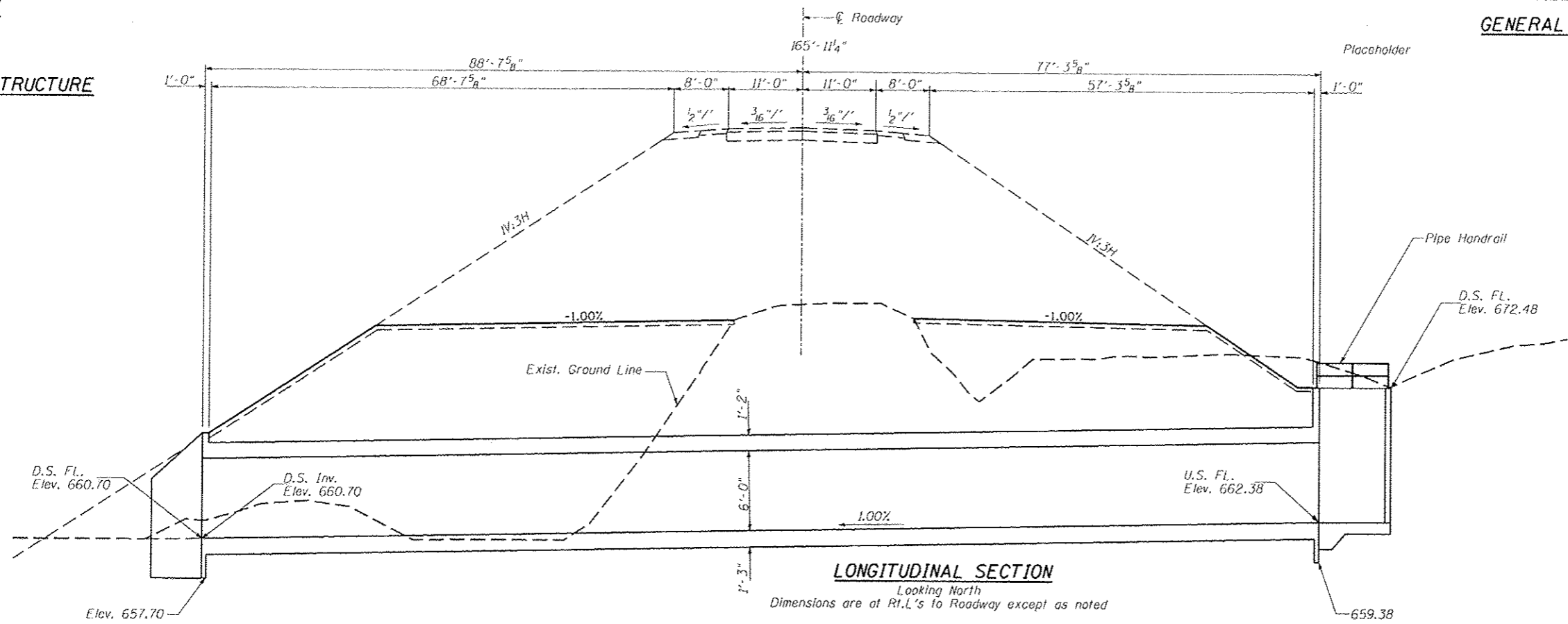
NOTES

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 7 x 6-#5 etc. indicates 7 lines of bars with 6 lengths per line.

BENCH MARK

Description
Sta.
Elev.

EXISTING STRUCTURE



LONGITUDINAL SECTION

Looking North
Dimensions are at Rt.L.'s to Roadway except as noted

GENERAL NOTES

INDEX TO SHEETS

- 1. General Plan
- 2-3. Culvert Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	EACH	1
Concrete Box Culverts	CU YD	246
Reinforcement Bars	POUND	62,100
Pipe Handrail	FOOT	43.3
Porous Granular Embankment	CU YD	1573

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

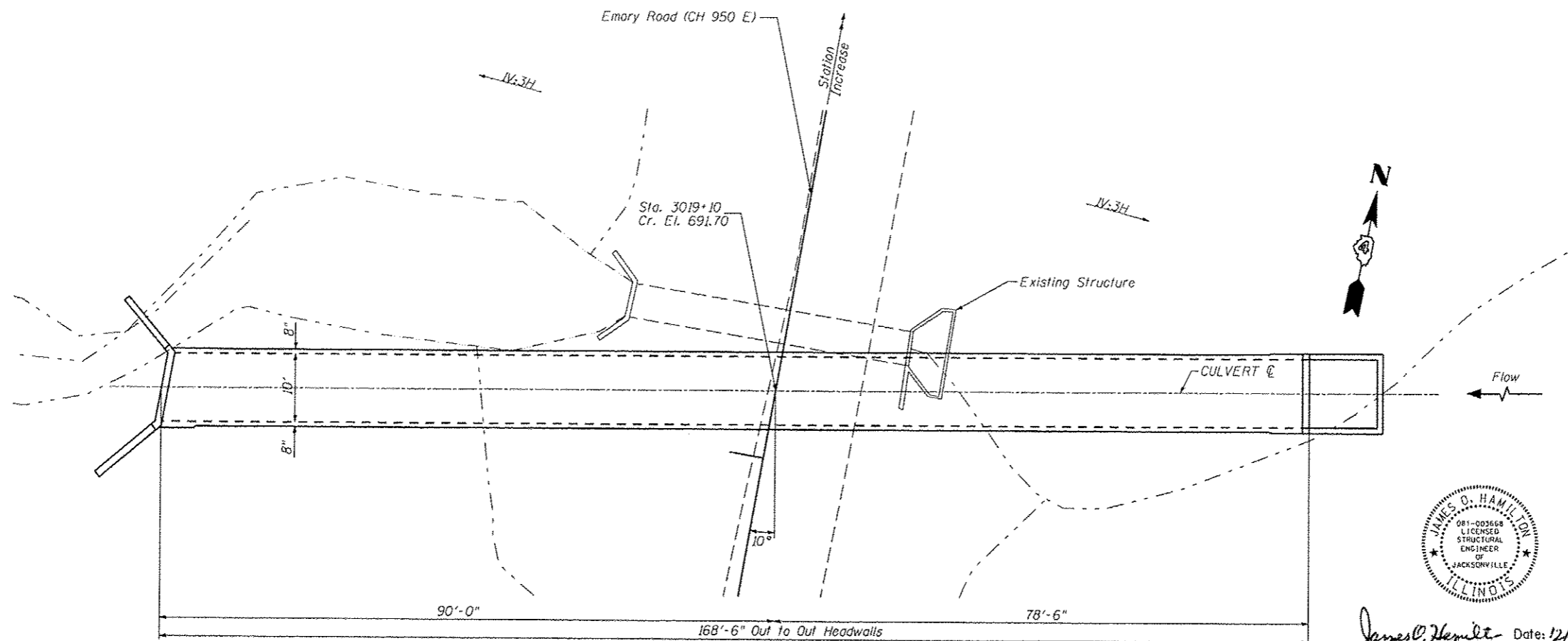
DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

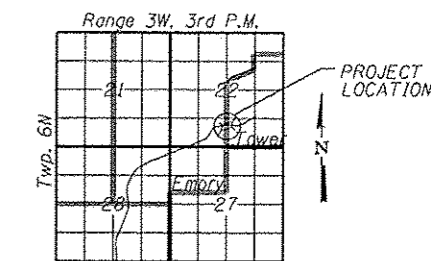
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

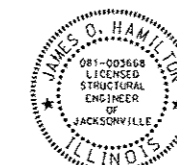


PLAN

PROFILE GRADE
PROFILE ALONG CENTERLINE OF ROAD



LOCATION SKETCH



James O. Hamilton Date: 12/10/2012
Expires: 11/30/2014

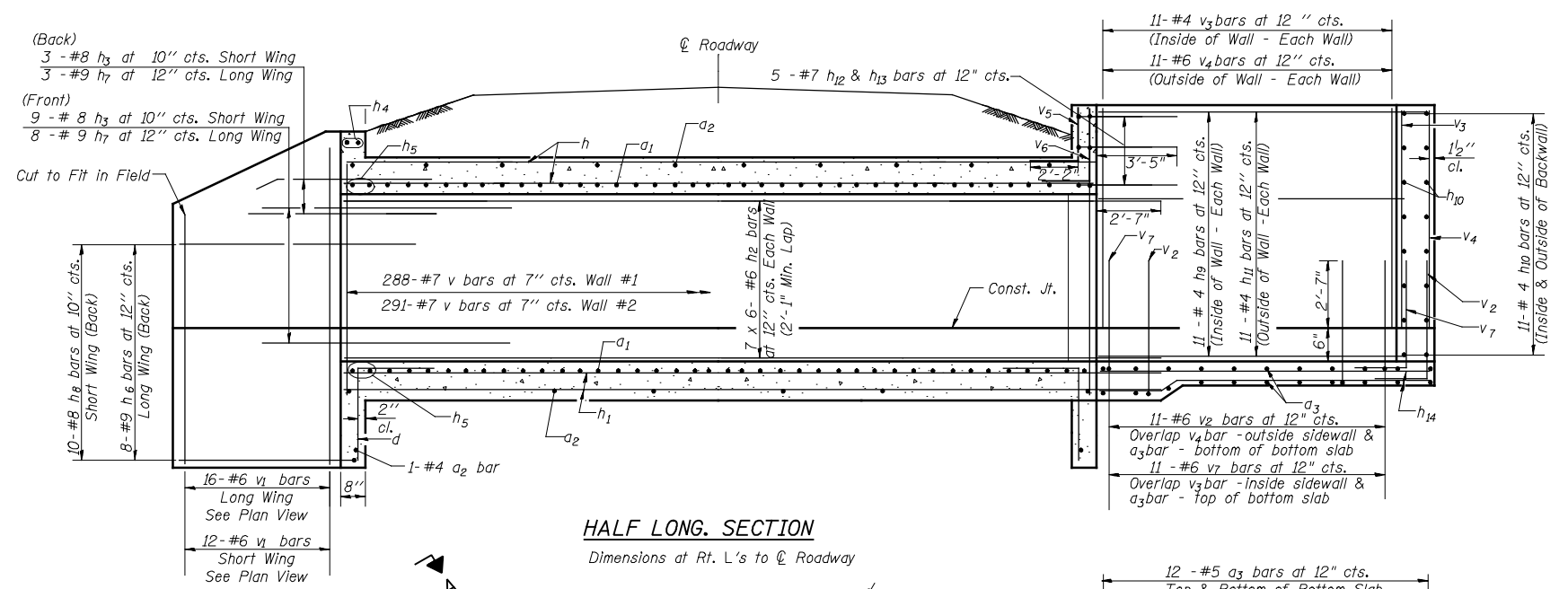
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		CHECKED - JOH	REVISED -
		DATE - 12-12-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

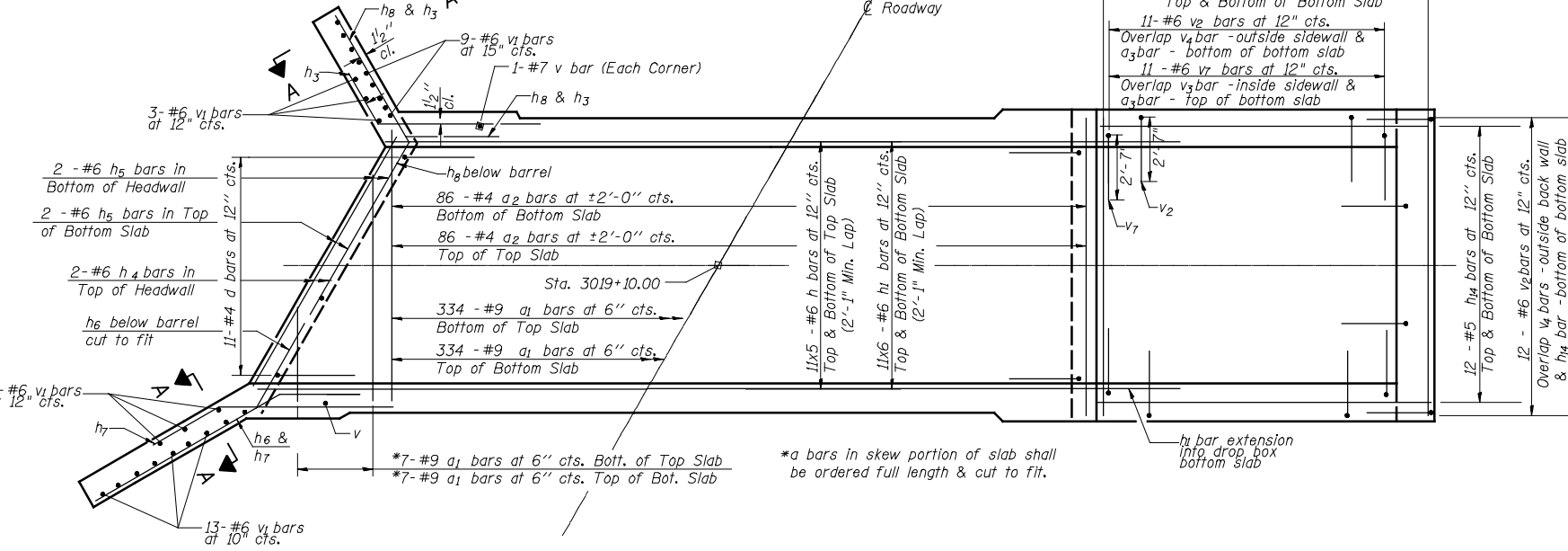
GENERAL PLAN AND ELEVATION
STA 3019+10.00

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

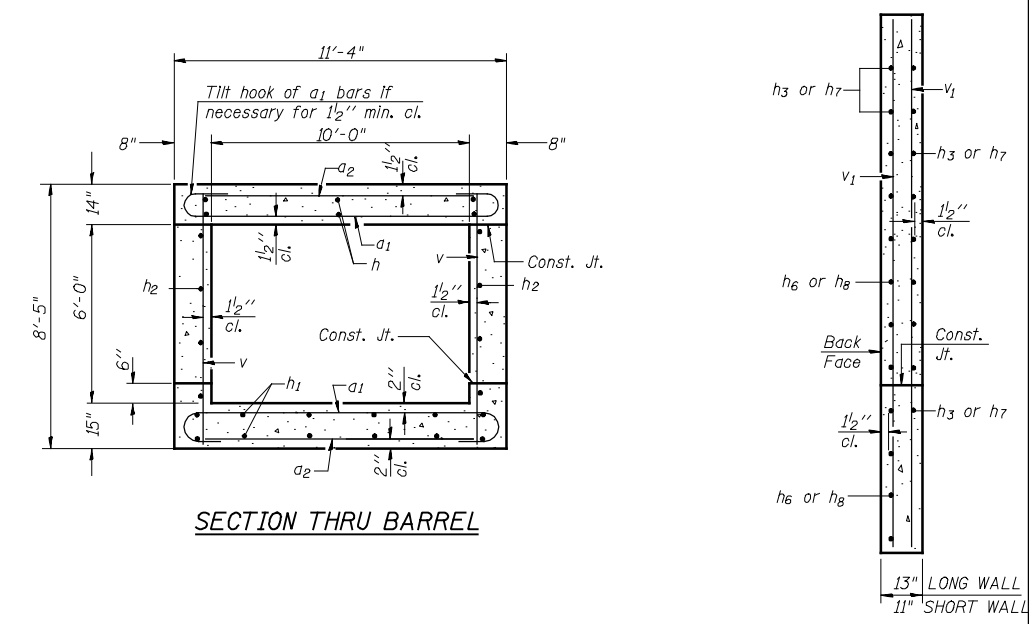
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	155-31A	MCDONOUGH	671	281
CONTRACT NO. 68A42				
ILLINOIS FED. AID PROJECT				



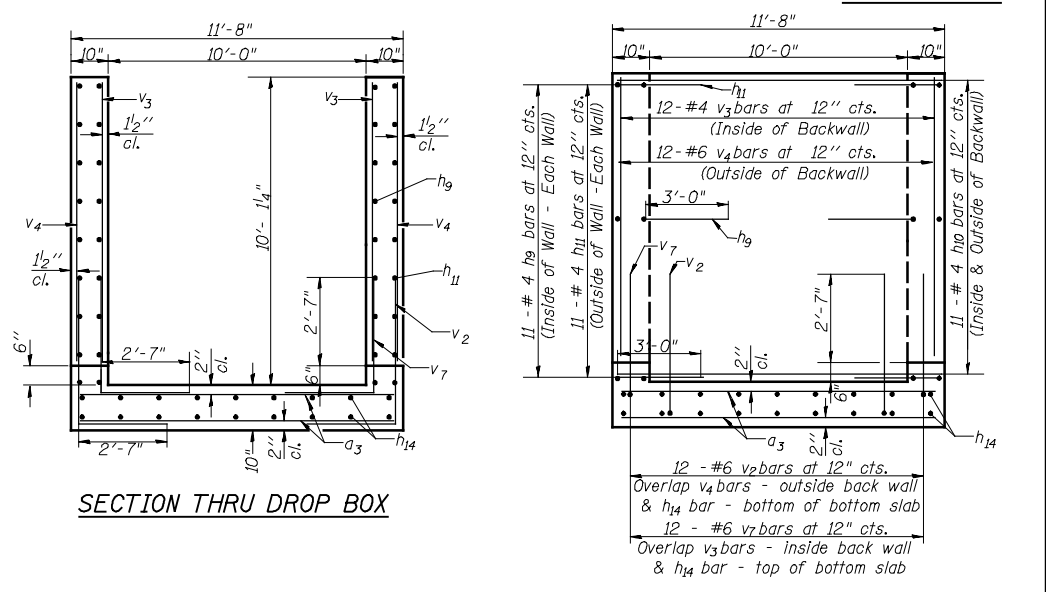
HALF LONG. SECTION
Dimensions at Rt. L's to \varnothing Roadway



SHOWING REINFORCEMENT PLAN

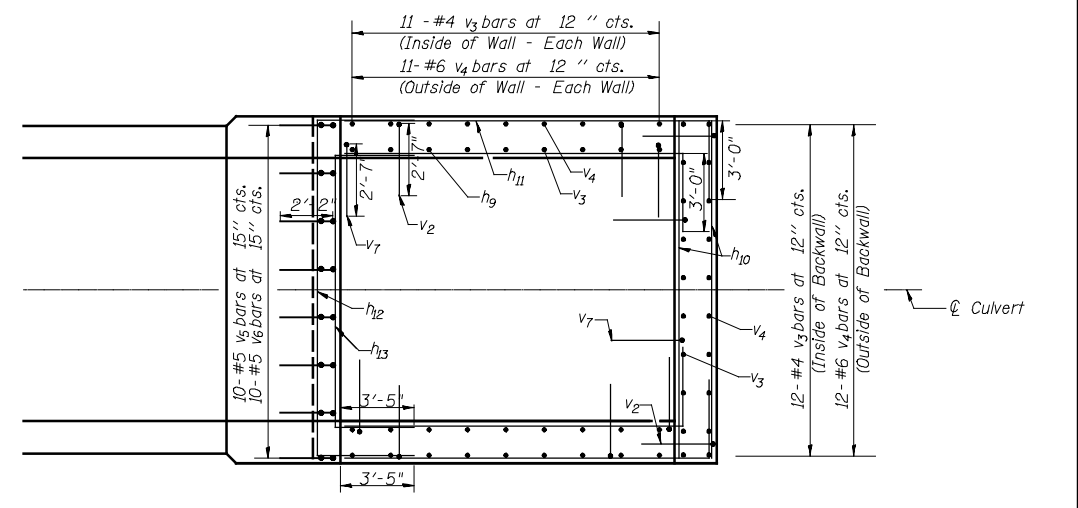


SECTION THRU BARREL



SECTION THRU DROP BOX

BACKWALL OF DROP BOX



PLAN VIEW - HEADWALL & WALLS

SSB-H-R 7-1-10

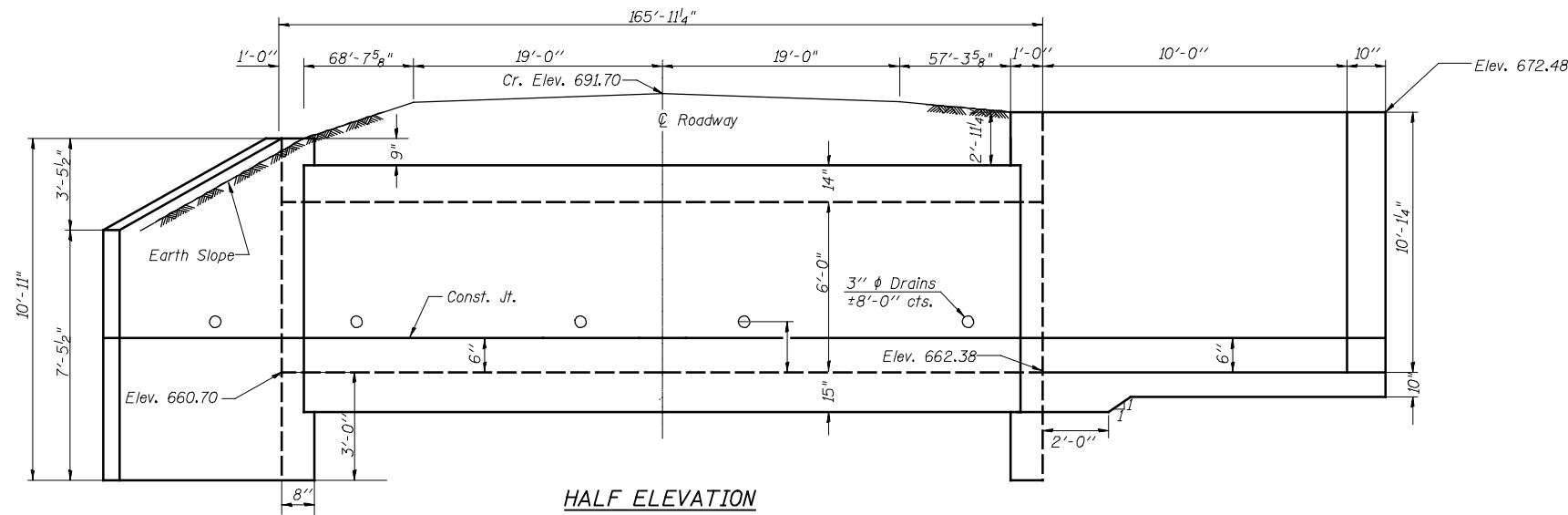
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PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

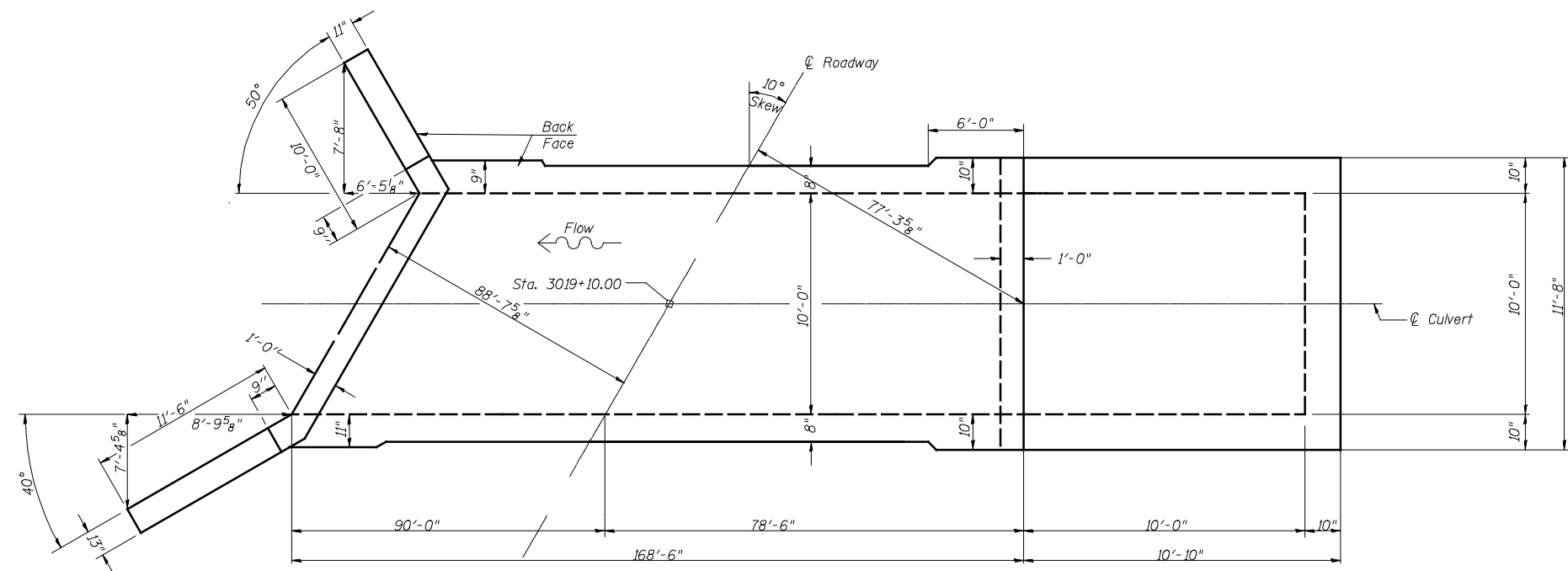
**CULVERT DETAILS
STA 3019 + 10.00**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	671	282
CONTRACT NO. 68A42				
ILLINOIS FED. AID PROJECT				



HALF ELEVATION
Dimensions at Rt. L's to \varnothing Roadway



SHOWING OUTLINES

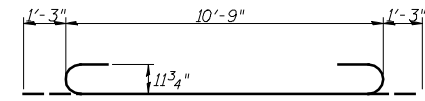
PLAN

NOTES

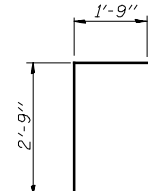
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

BILL OF MATERIAL

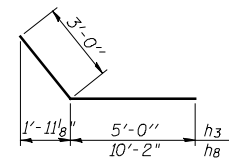
Bar	No.	Size	Length	Shape
a1	682	#9	13'-3"	C
a2	174	#4	10'-3"	—
a3	24	#5	11'-4"	—
d	22	#4	4'-6"	┌
h	110	#6	35'-6"	—
h1	132	#6	30'-5"	—
h2	84	#6	30'-5"	—
h3	12	#8	8'-0"	└
h4	2	#6	10'-6"	—
h5	4	#6	11'-8"	—
h6	8	#9	14'-5"	└
h7	11	#9	8'-0"	└
h8	10	#8	13'-2"	└
h9	22	#4	13'-0"	┌
h10	22	#4	11'-4"	—
h11	22	#4	13'-5"	└
h12	5	#7	19'-10"	└
h13	5	#7	17'-3"	└
h14	24	#5	10'-6"	—
v	583	#7	8'-1"	—
v1	28	#6	10'-8"	—
v2	34	#6	6'-4"	└
v3	34	#4	9'-3"	—
v4	34	#6	9'-3"	—
v5	10	#5	5'-1"	└
v6	10	#5	6'-1"	└
v7	34	#6	5'-10"	└
Concrete Box Culverts			Cu. Yd.	246
Reinforcement Bars			Pound	62,100
Pipe Handrail			Foot	43.3
Porous Granular Embankment			Cu. Yd.	1573



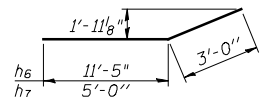
BAR a1



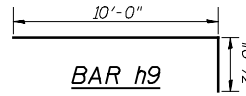
BAR d



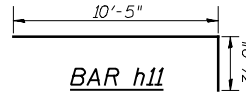
BARS h3 & h8



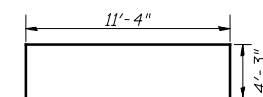
BARS h6 & h7



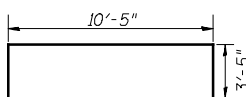
BAR h9



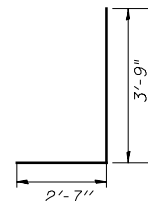
BAR h11



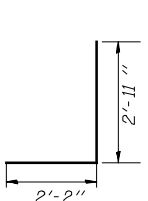
BAR h12



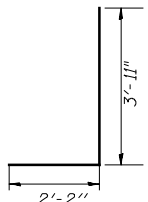
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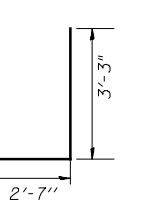
BAR v2



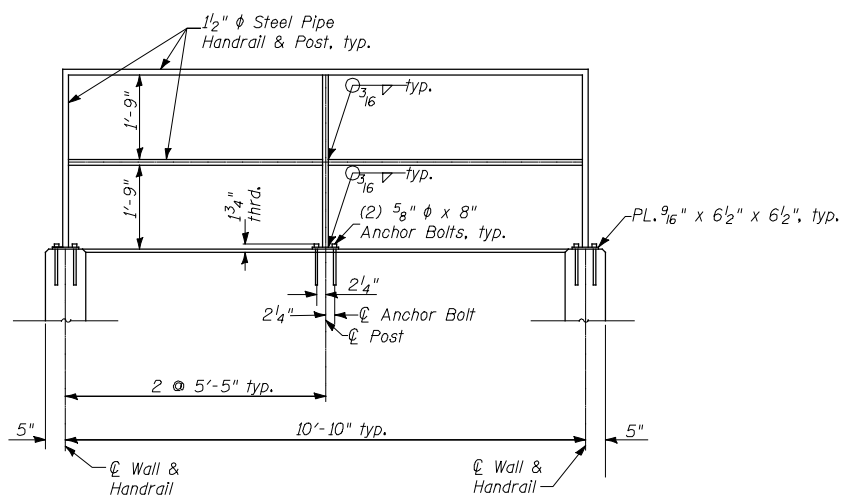
BAR v5



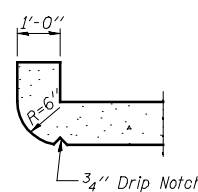
BAR v6



BAR v7



HANDRAIL ELEVATION
(Typical 4 Sides)



SECTION THRU HEADWALL
(Up Stream End Only)

DESIGN STRESSES

$f_y = 60,000$ psi
 $f'_c = 3,500$ psi

FILE NAME =	USER NAME = jdeen	DESIGNED -	REVISED -
v:\transportation\2891\grading plans\Hermann Final\Culvert 3019+10.00.DETAIL SHEET.dgn		DRAWN -	REVISED -
PLOT SCALE = 2.000000 FT / IN.		CHECKED - JOH	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STA 3019 + 10.00

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	671	283
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

BENCH MARK

Description
Sta.
Elev.

EXISTING STRUCTURE

INDEX TO SHEETS

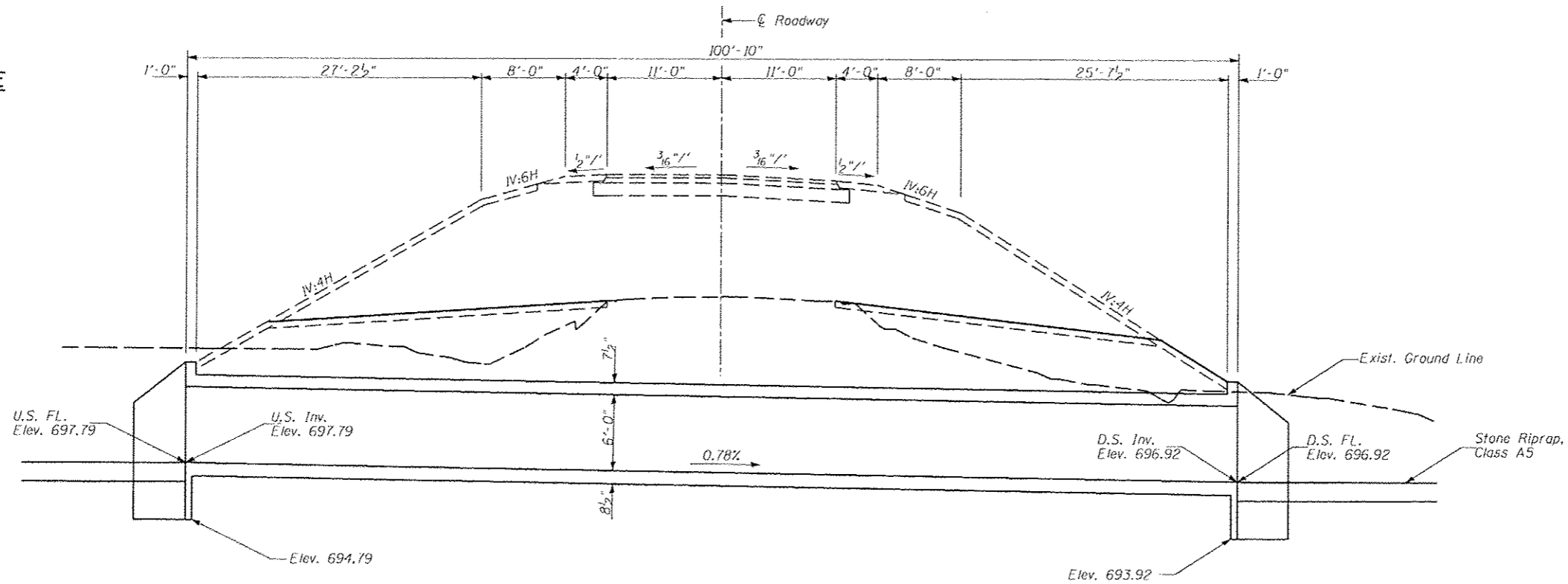
- 1. General Plan
- 2.-3. Culvert Details

GENERAL NOTES

Placeholder

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	EACH	1
Concrete Box Culverts	CU YD	74.1
Reinforcement Bars	POUND	16,250
Porous Granular Embankment	CU YD	350



LONGITUDINAL SECTION

Looking East
Dimensions are at Rt.L.'s to Roadway except as noted

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

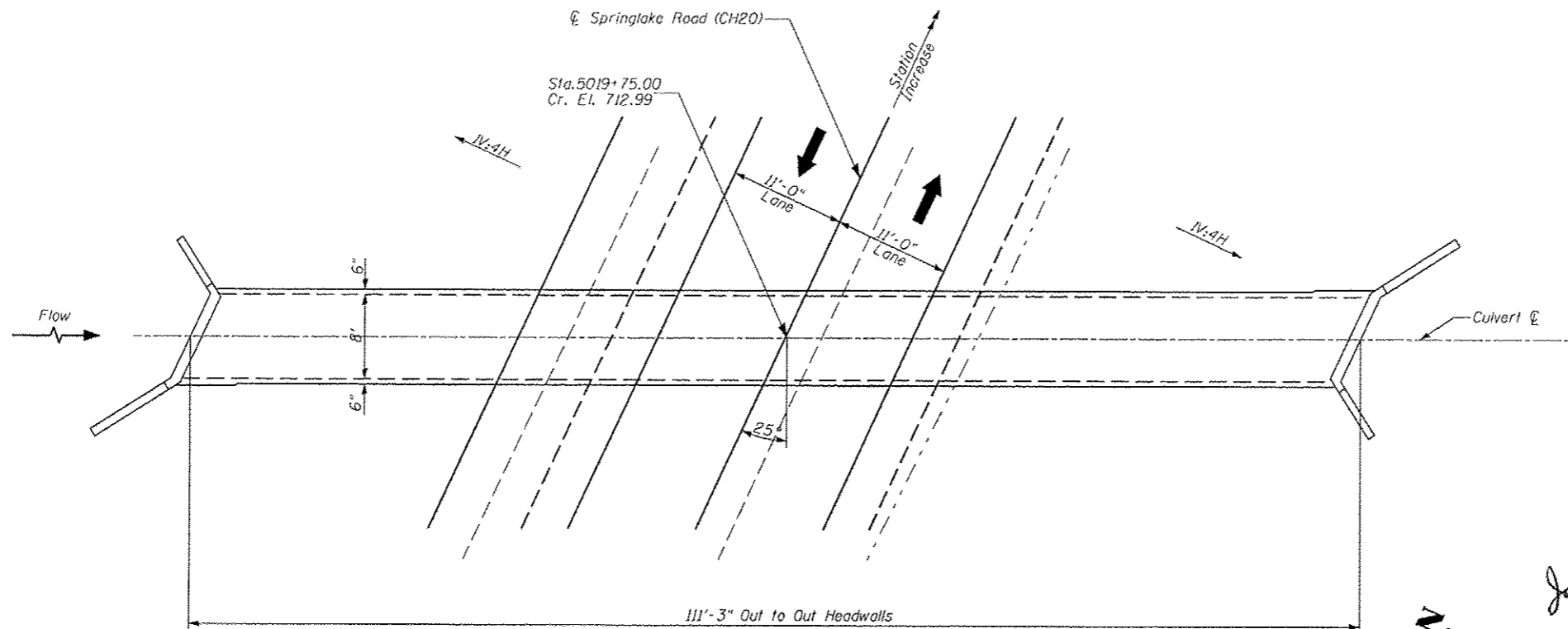
DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

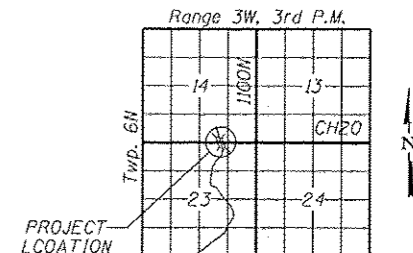
DESIGN STRESSES

FIELD UNITS

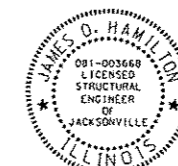
f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)



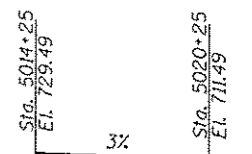
PLAN



LOCATION SKETCH



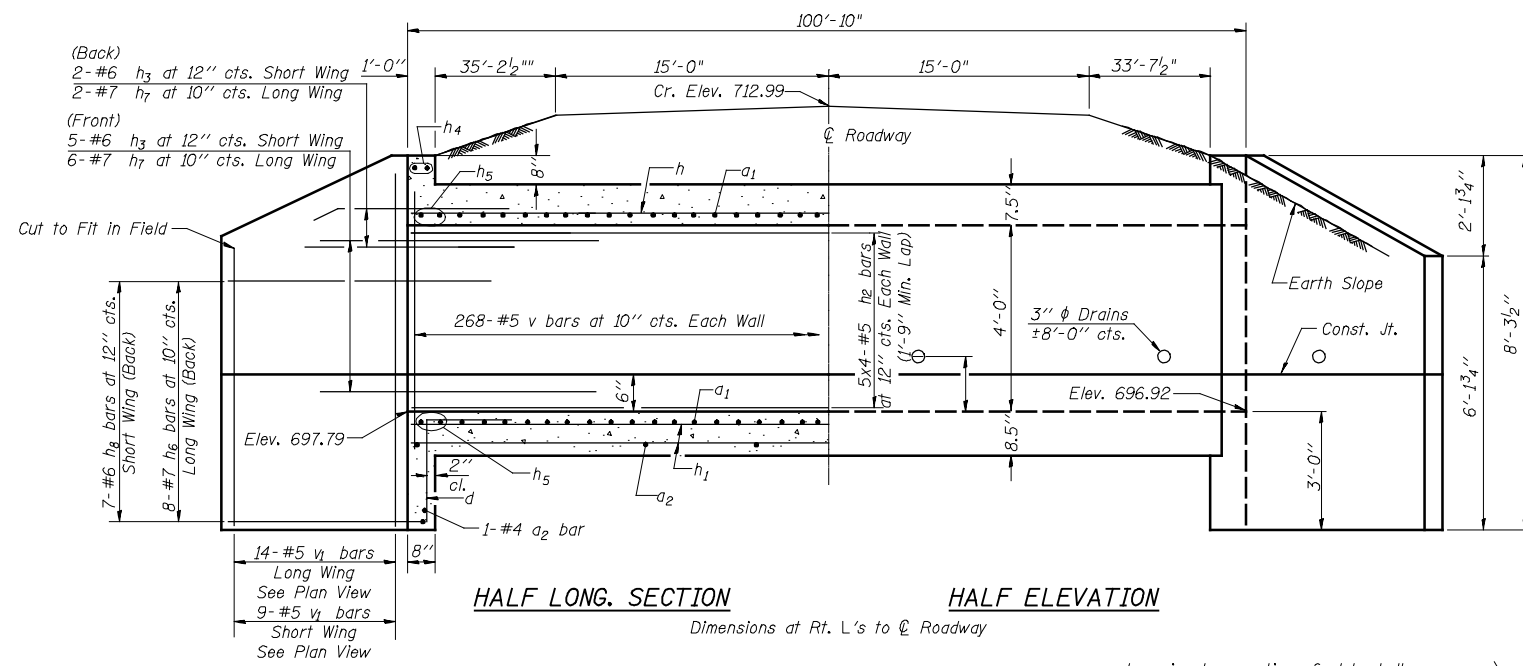
James D. Hamilton - Date: 12/10/2012
Expires: 11/30/2014



PROFILE GRADE

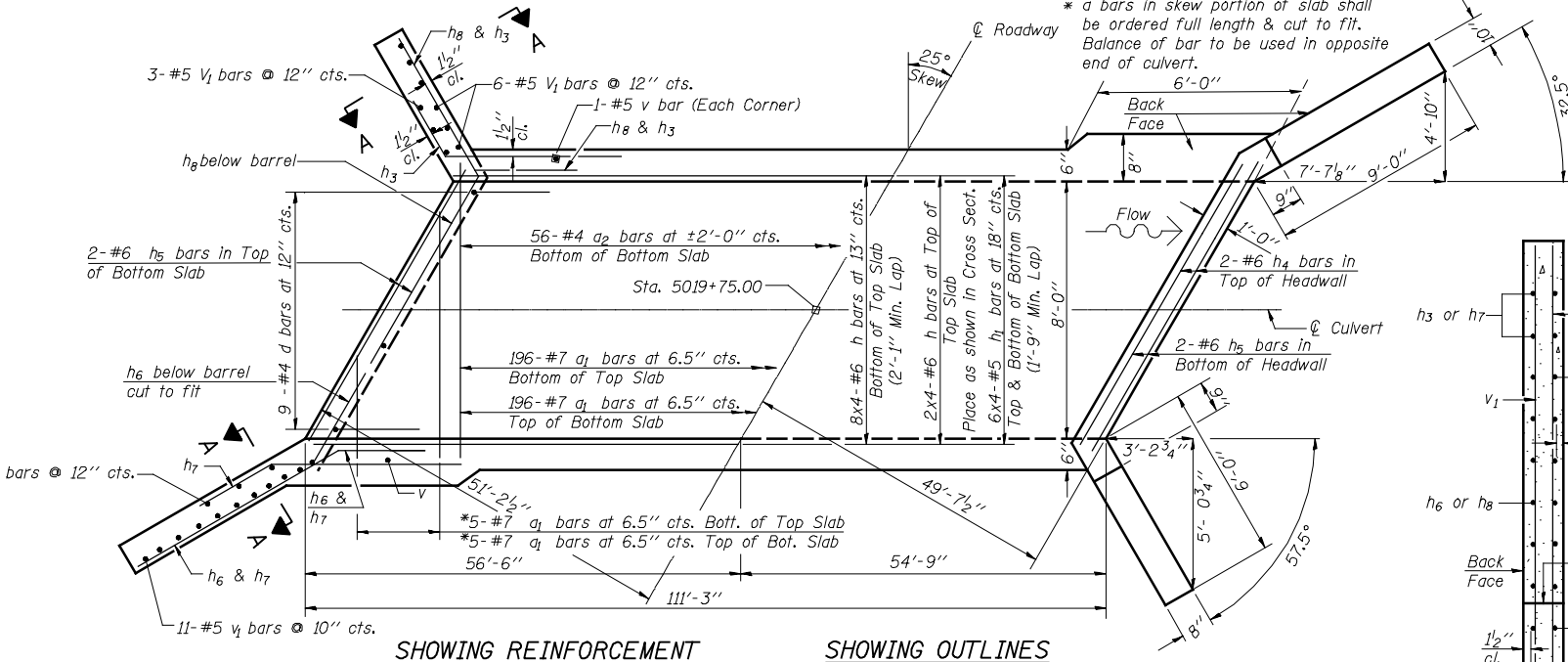
PROFILE ALONG CENTERLINE OF ROAD

FILE NAME =	USER NAME = jdeen	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STA 5019 + 75.00			F.A.P. RTE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 1/16/2013	DATE = 12-12-12	REVISED =	REVISED =		ILLINOIS FED. AID PROJECT							



HALF LONG. SECTION HALF ELEVATION

Dimensions at Rt. L's to \odot Roadway

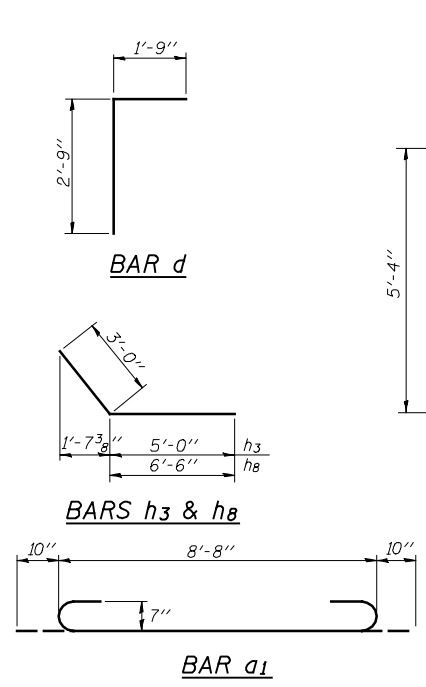


SHOWING REINFORCEMENT SHOWING OUTLINES

PLAN

NOTES

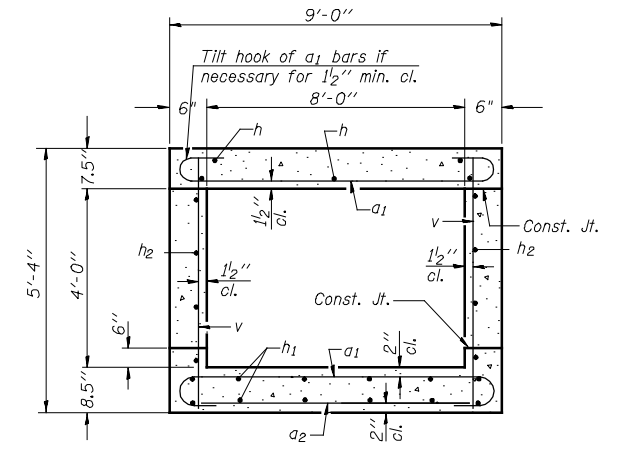
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 Bars indicated thus 12 x 4-#5 etc. Indicates 12 lines of bars with 4 lengths per line.



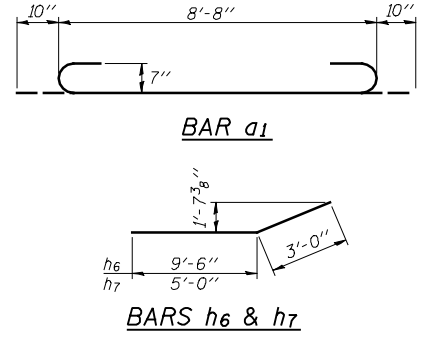
BAR d

BARS h3 & h8

BAR a1



SECTION THRU BARREL



BARS h6 & h7

SECTION THRU HEADWALL
(Up Stream End Only)

DESIGN STRESSES

$f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	402	#7	10'-4"	U
a2	58	#4	8'-3"	—
d	18	#4	4'-6"	—
h	40	#6	29'-4"	—
h1	48	#5	29'-2"	—
h2	40	#5	29'-2"	—
h3	14	#6	8'-0"	—
h4	4	#6	8'-5"	—
h5	4	#6	9'-10"	—
h6	16	#7	12'-6"	—
h7	16	#7	8'-0"	—
h8	14	#6	9'-6"	—
v	272	#5	5'-0"	—
v2	46	#5	7'-11"	—
Concrete Box Culverts		Cu. Yd.	74.1	
Reinforcement Bars		Pound	16,250	
Porous Granular Embankment		Cu. Yd.	350	

SSB-H-R 7-1-10

BENCH MARK

Description
Sta.
Elev.

EXISTING STRUCTURE

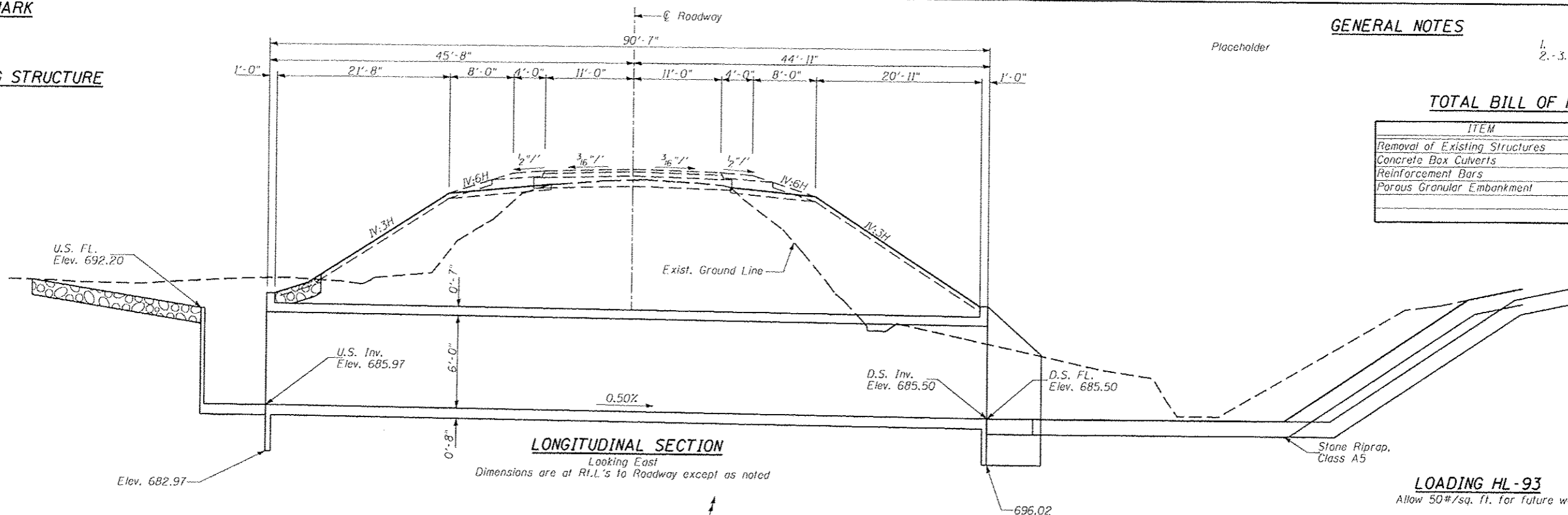
GENERAL NOTES

INDEX TO SHEETS

- 1. General Plan
- 2.-3. Culvert Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	EACH	1
Concrete Box Culverts	CU YD	72.4
Reinforcement Bars	POUND	15,740
Porous Granular Embankment	CU YD	576



LONGITUDINAL SECTION

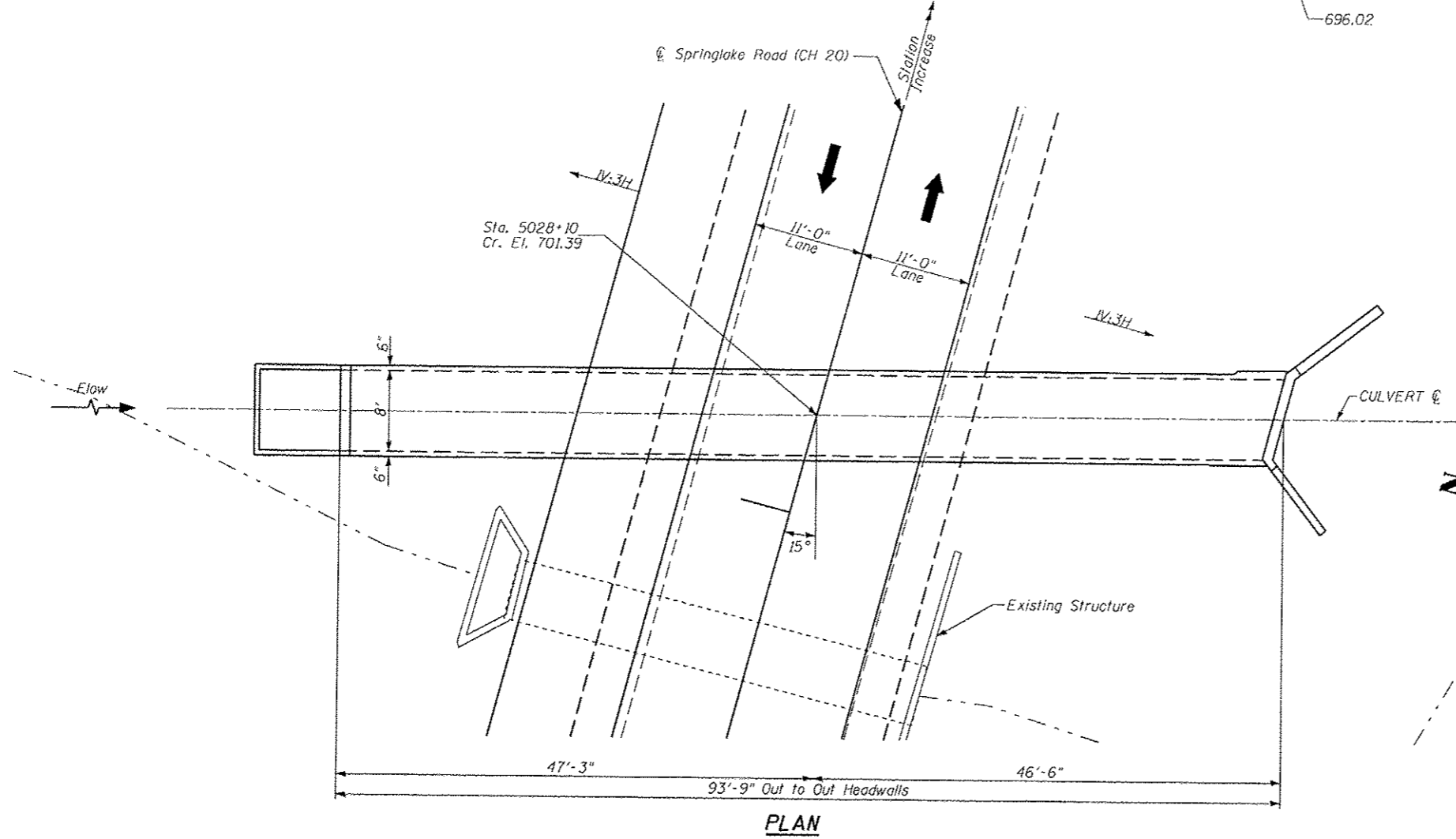
Looking East
Dimensions are at R.L.'s to Roadway except as noted

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

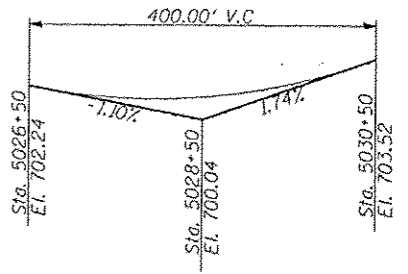
DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

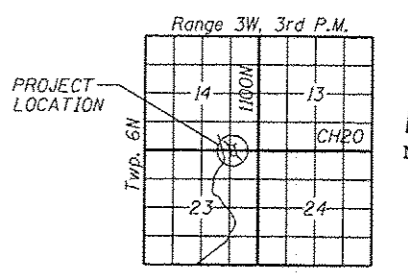
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)



PLAN



PROFILE GRADE
PROFILE ALONG CENTERLINE OF ROAD

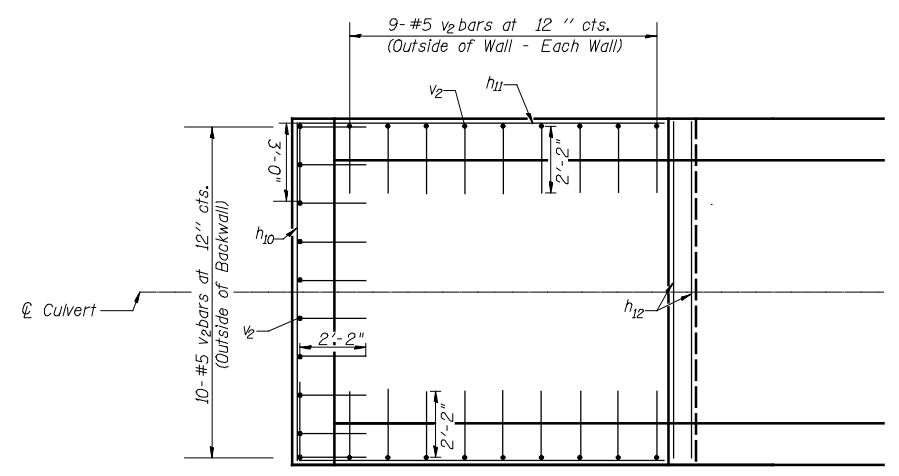
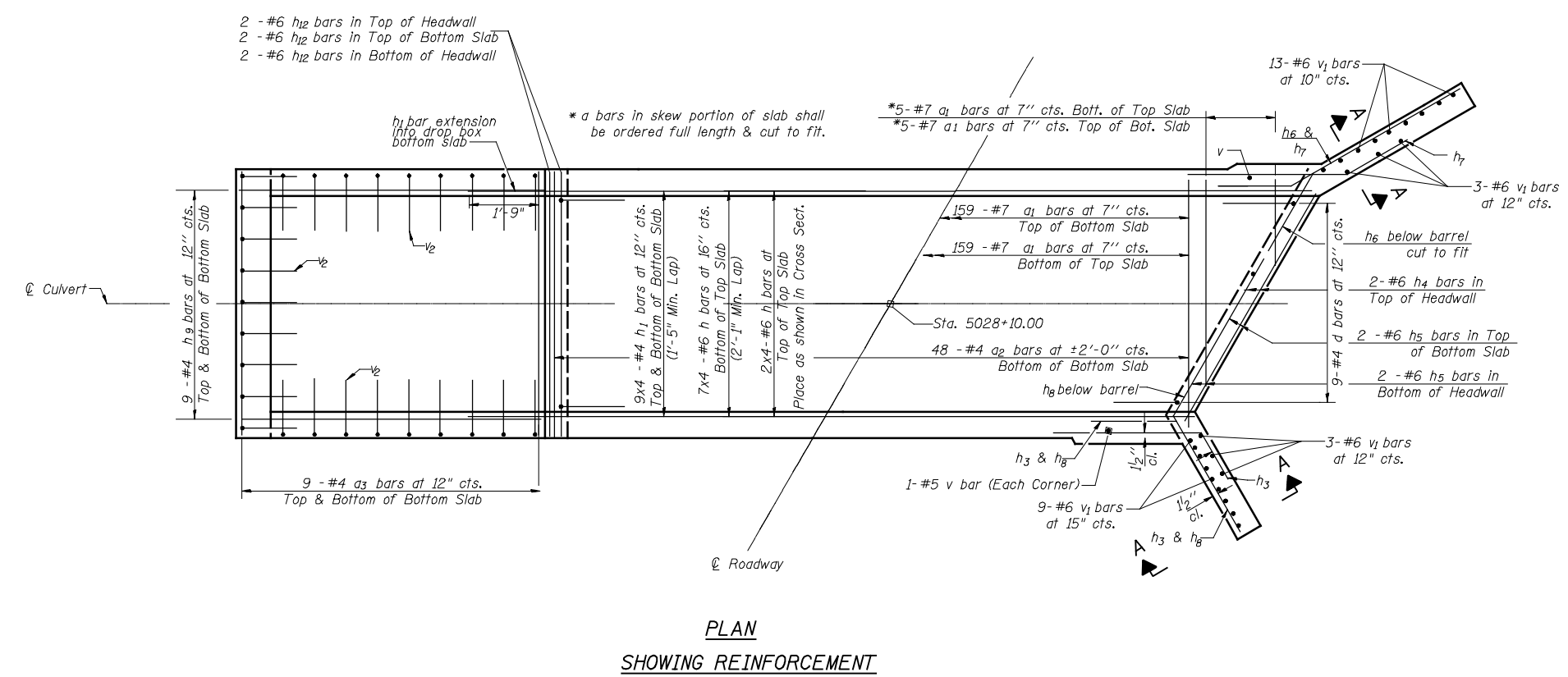
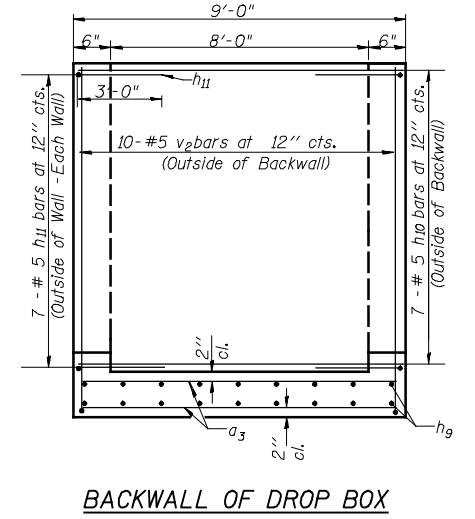
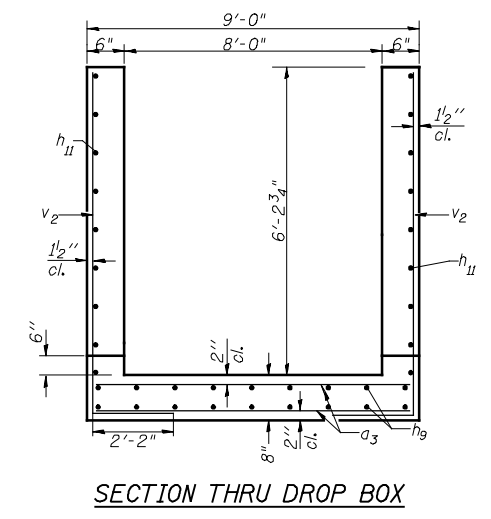
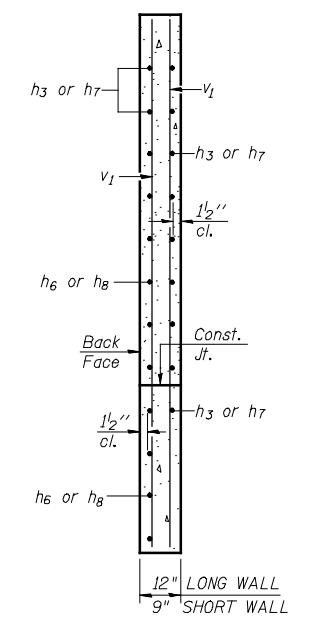
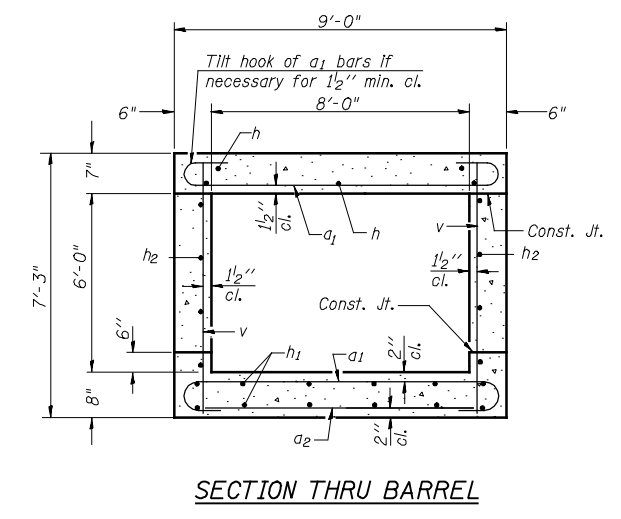
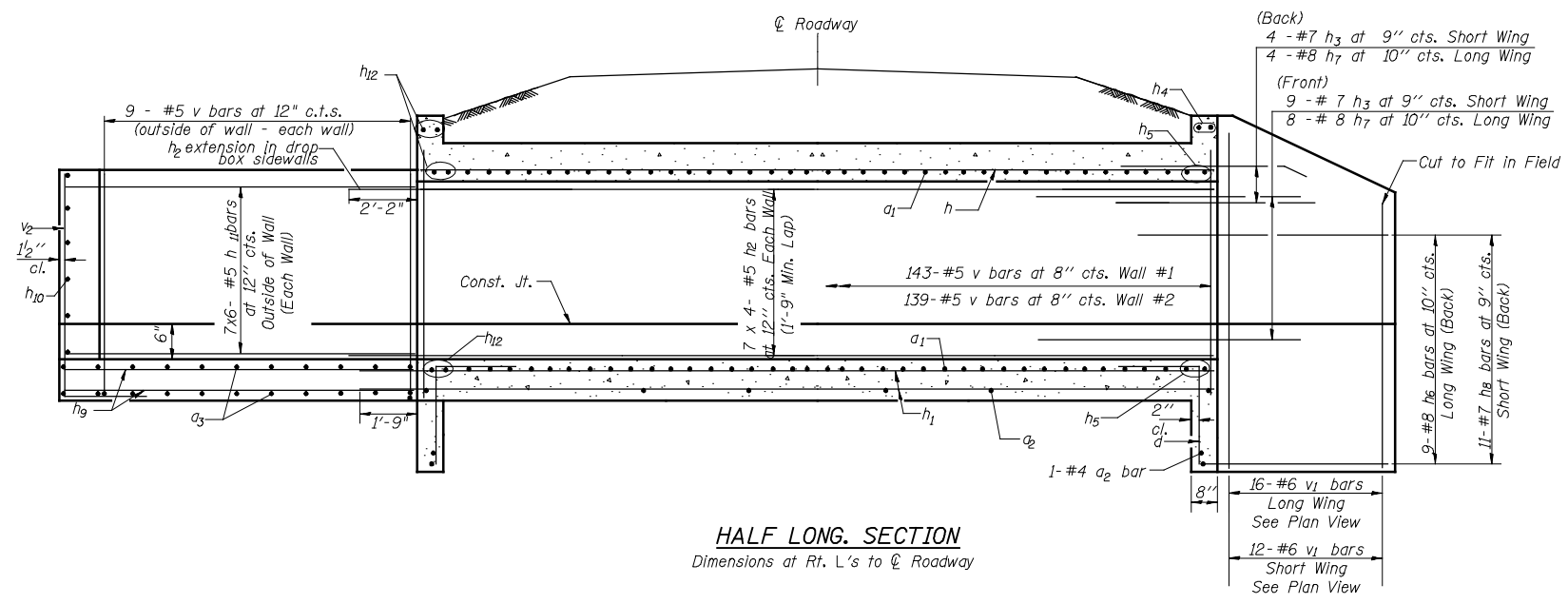


LOCATION SKETCH



James O. Hamilton Date: 12/10/2012
Expires: 11/30/2014

FILE NAME *	USER NAME = jdeen	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STA 5028 + 10.00		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\\transportation\209\grading plans\Main\0000\0000\CULVERT PLAN SHEET 5028+10.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	407	(55-3)A	MCDONOUGH	671 286
PLOT SCALE = 15,000,000 FT / IN.		CHECKED - JOH	REVISED -		CONTRACT NO. 68A42			ILLINOIS FED. AID PROJECT				
PLOT DATE = 1/16/2013		DATE - 12-12-12	REVISED -									



SSB-H-R 7-1-10

FILE NAME =	USER NAME = jdeen	DESIGNED -	REVISED -
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PLOT SCALE = 2.000000 FT / IN.		CHECKED - JOH	REVISED -
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

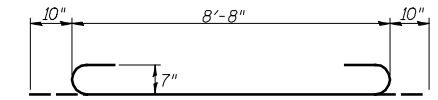
**CULVERT DETAILS
STA 5028+10.00**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

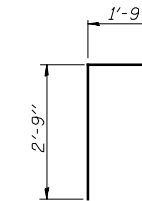
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	671	287
CONTRACT NO. 68A42			ILLINOIS FED. AID PROJECT	

BILL OF MATERIAL

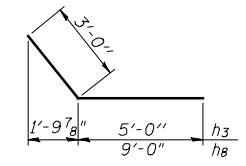
Bar	No.	Size	Length	Shape
q	328	#7	10'-4"	
q2	50	#4	8'-3"	—
q3	18	#4	8'-8"	—
d	18	#4	4'-6"	
h	36	#6	25'-4"	—
h1	72	#4	25'-3"	—
h2	56	#5	25'-7"	—
h3	13	#7	8'-0"	
h4	2	#6	8'-5"	—
h5	4	#6	9'-7"	—
h6	9	#8	14'-0"	
h7	12	#8	8'-0"	
h8	11	#7	12'-0"	
h9	18	#4	8'-2"	—
h10	7	#5	8'-8"	—
h11	14	#5	11'-2"	—
h12	6	#6	8'-8"	—
v	286	#5	6'-11"	—
v1	28	#6	9'-11"	—
v2	28	#5	8'-9"	—
Concrete Box Culverts			Cu. Yd.	72.4
Reinforcement Bars			Pound	15,740
Porous Granular Embankment			Cu. Yd.	576



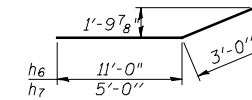
BAR d1



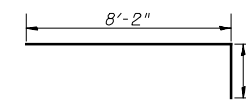
BAR d



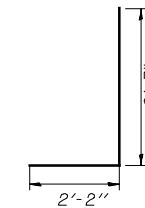
BARS h3 & h8



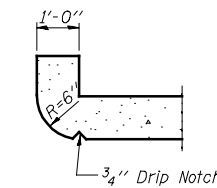
BARS h6 & h7



BAR h11



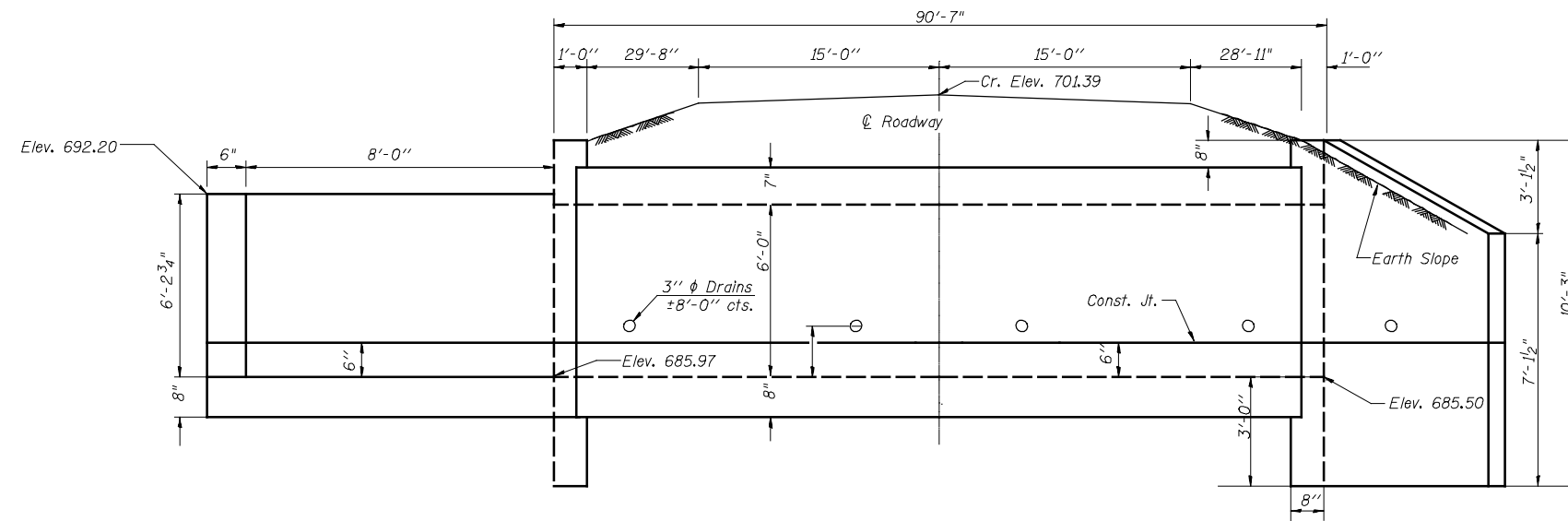
BAR v2



SECTION THRU HEADWALL
(Up Stream End Only)

DESIGN STRESSES

$f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$

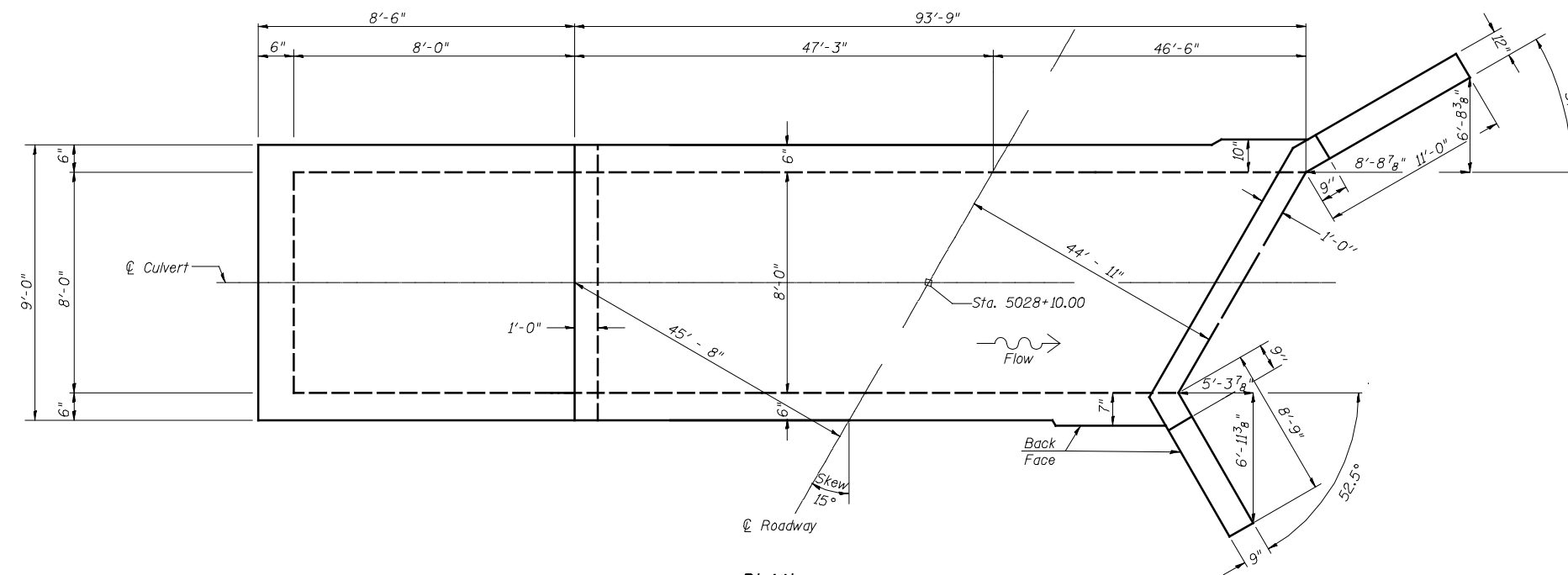


HALF ELEVATION

Dimensions at Rt. L's to C Roadway

NOTES

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.



PLAN

SHOWING OUTLINES

FILE NAME =	USER NAME = jdeen	DESIGNED -	REVISED -
v:\transportation\2891\grading plans\Hermann Final\Culvert 5028+10.00_DETAIL SHEET.dwg		DRAWN -	REVISED -
PLOT SCALE = 2.000000 FT / IN.	CHECKED - JOH	REVISED -	REVISED -
PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STA 5028 + 10.00

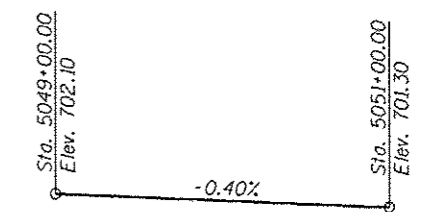
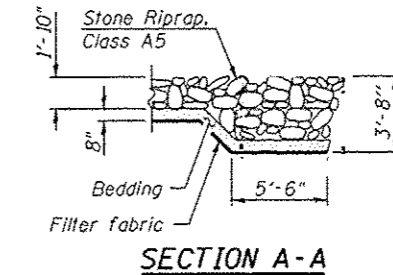
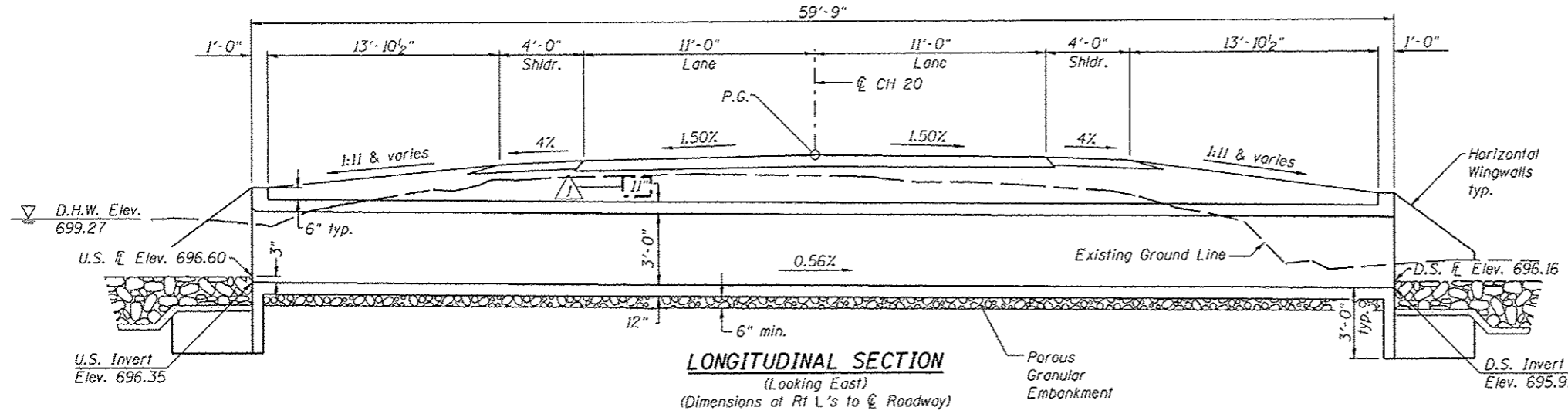
SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	671	288
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68A42	

Benchmark: Chiseled Square on SW corner of PCC pad for G.T.E. phone box. Sta. 5046+22.52, 34.50' LT., Elev. 702.98.
 Existing Structure: No structure number previously assigned. Built as a 5'x3' reinforced elliptical concrete culvert pipe, 68'-4"(±) out to out length.
 Existing structure to be removed and replaced. Roadway traffic will be detoured during construction.
 No Salvage.

GENERAL NOTES

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Backfill within the limits of the paved surface to the top of culvert elevation shall be performed using Porous Granular Embankment.
 See Roadway plans for riprap quantities, and limits of Porous Granular Embankment.
 Precast alternate is not allowed.



PROFILE GRADE
(Along CH 20)

- INDEX OF SHEETS**
1. General Plan and Elevation
 2. Culvert Details
 3. Soil Boring Logs

DESIGN SCOUR ELEVATION TABLE

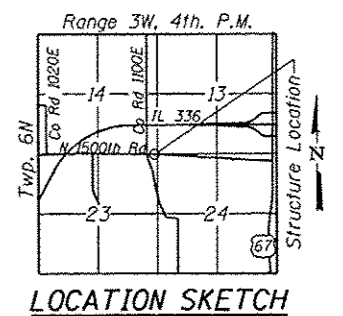
Design Scour Elevation (ft.)	U.S. Invert	D.S. Invert
	693.35	692.91

STATION 5049+48.00
 BUILT 20 BY
 STATE OF ILLINOIS
 LOADING HL-93
 STRUCTURE NO. 055-2509

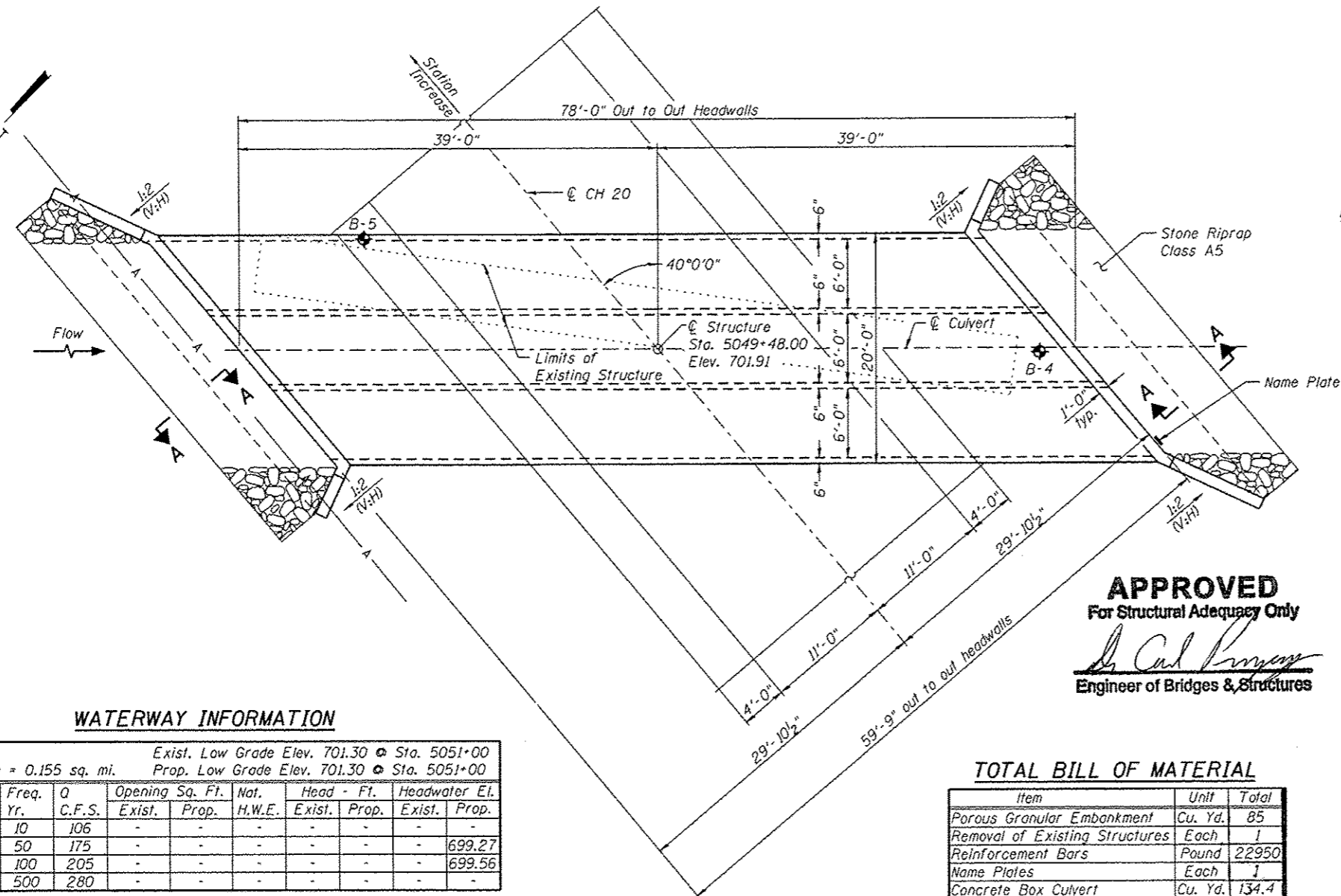
DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HL-93
 Allow 50#/#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



GENERAL PLAN & ELEVATION
COUNTY HIGHWAY RTE. 20
OVER DRAINAGE DITCH
F.A.P. 407-SECTION (55-3)A
MCDONOUGH COUNTY
STA. 5049+48.00
STRUCTURE NO. 055-2509



APPROVED
 For Structural Adequacy Only
Michael T. Haley
 Engineer of Bridges & Structures

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	85
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	22950
Name Plates	Each	1
Concrete Box Culvert	Cu. Yd.	134.4

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Not. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	106	-	-	-	-	-	-	699.27
Base	100	205	-	-	-	-	-	-	699.56
Max. Calc.	500	280	-	-	-	-	-	-	-

Exist. Low Grade Elev. 701.30 @ Sta. 5051+00
 Prop. Low Grade Elev. 701.30 @ Sta. 5051+00

50 year velocity thru proposed culvert = 4.8 fps
 100 year velocity thru proposed culvert = 5.2 fps

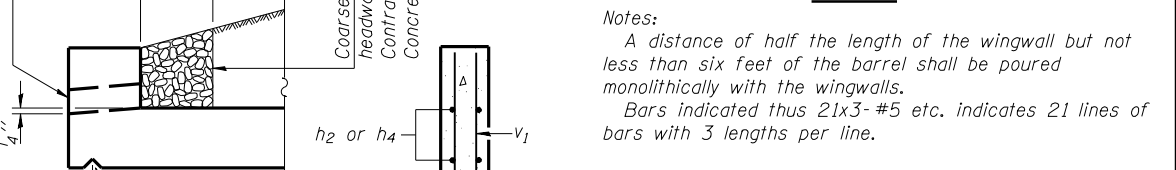
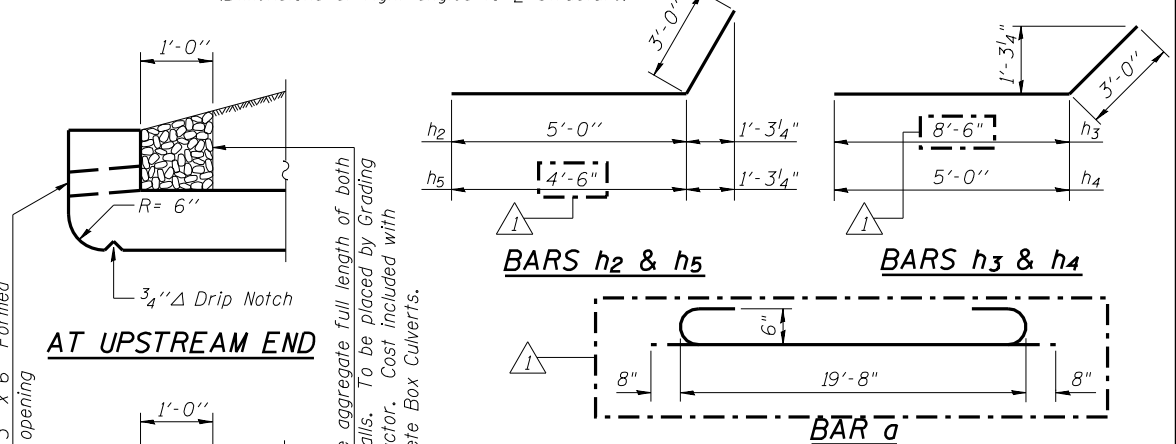
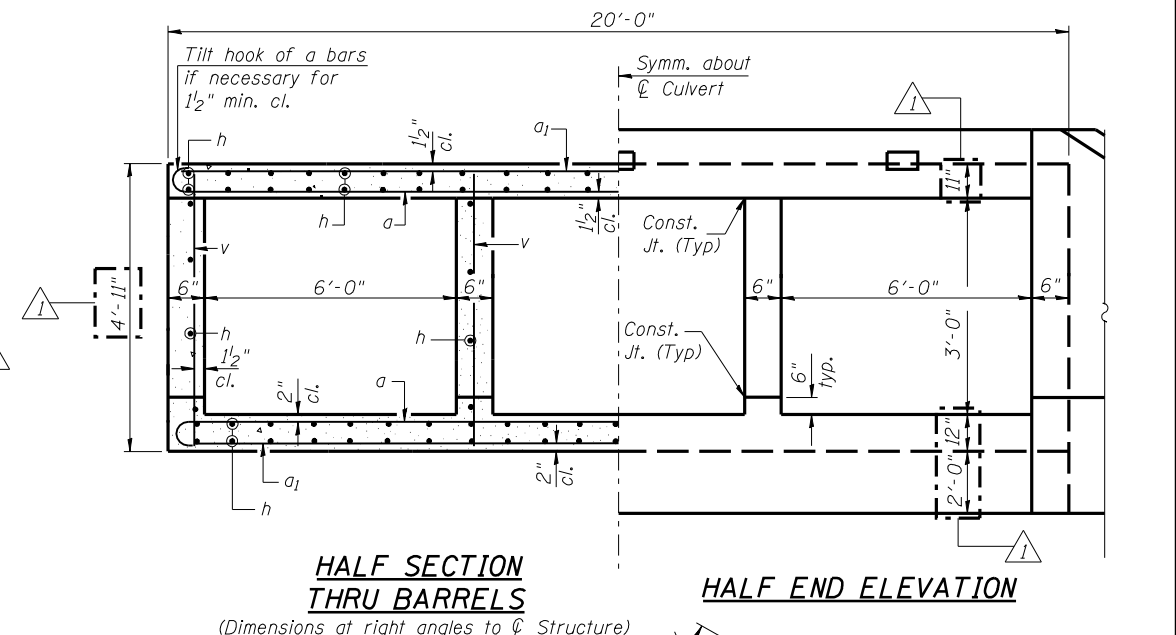
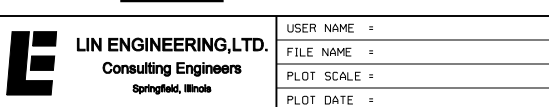
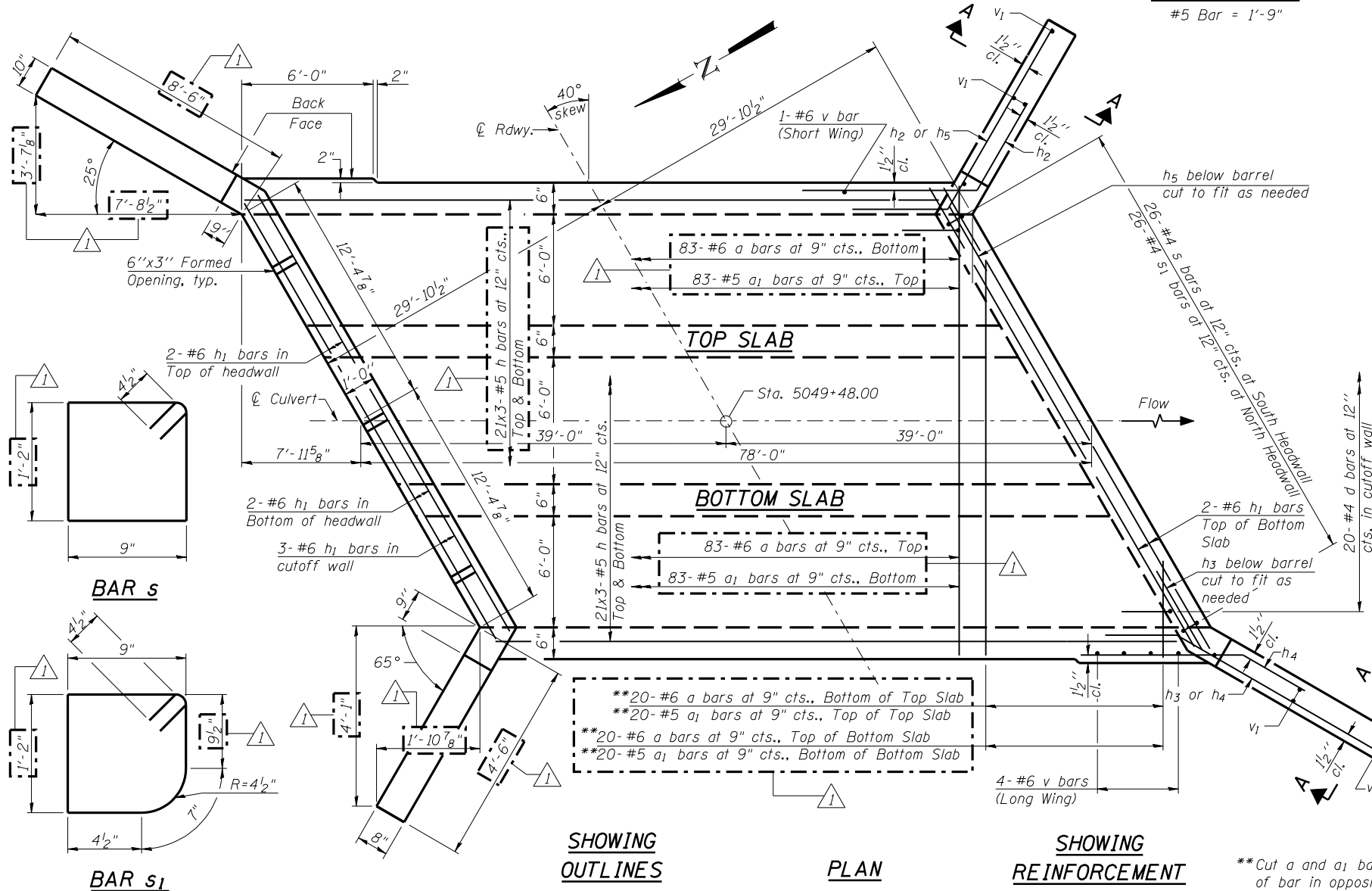
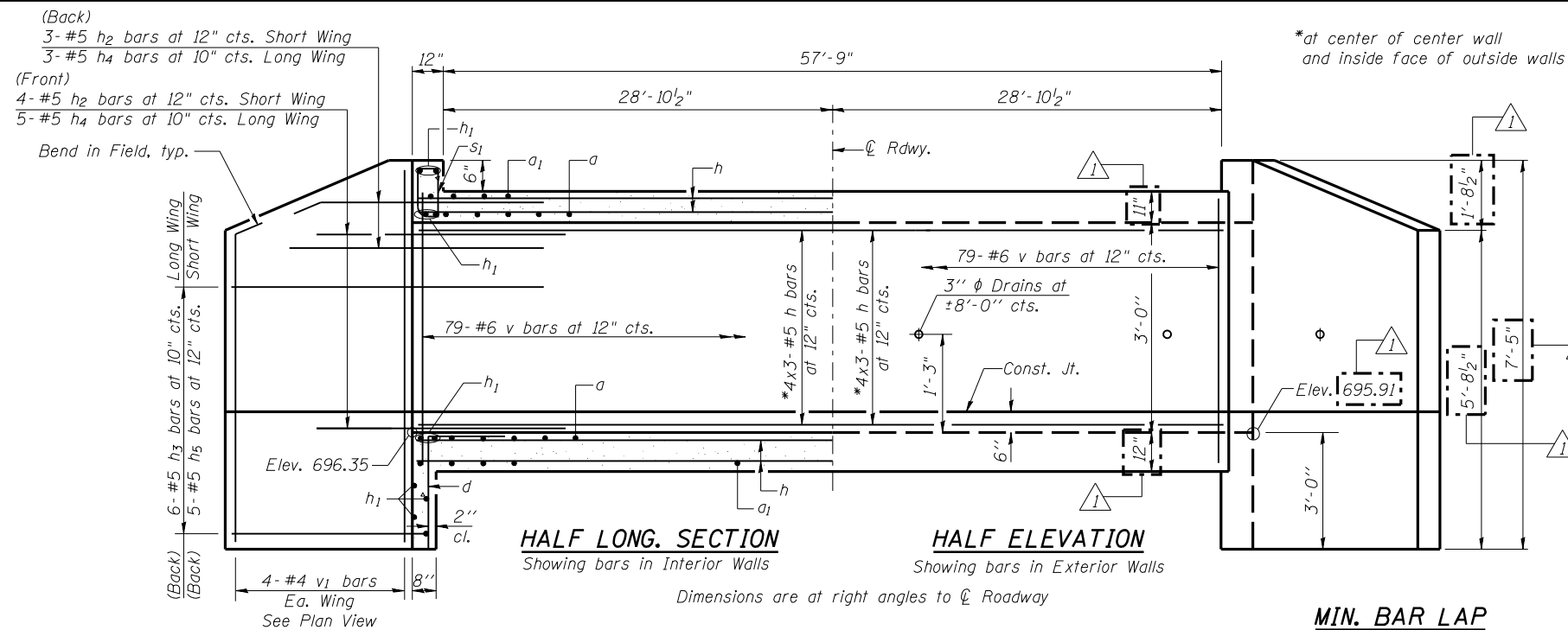
Lin Engineering, Ltd.
 Consulting Engineers
 Springfield, Illinois

USER NAME	DESIGNED	REVISIONS
FILE NAME	CHECKED - ZTB	REVISIONS
PLOT SCALE	DRAWN - AJF	REVISIONS
PLOT DATE	CHECKED - TBP	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
407	(55-3)A	MCDONOUGH	1 of 3

CONTRACT NO. 68A42
 ILLINOIS FED. AID PROJECT - 0-94-036-11



SECTION A-A

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 21x3-#5 etc. indicates 21 lines of bars with 3 lengths per line.

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a	206	#6	21'-0"	
a ₁	206	#5	19'-8"	
d	40	#4	4'-6"	
h	300	#5	27'-1"	
h ₁	18	#6	25'-3"	
h ₂	14	#5	8'-0"	
h ₃	12	#5	11'-6"	
h ₄	16	#5	8'-0"	
h ₅	10	#5	7'-6"	
s	26	#4	4'-7"	
s ₁	26	#4	4'-5"	
v	326	#6	4'-7"	
v ₁	16	#4	7'-1"	
Concrete Box Culverts			Cu. Yd.	134.4
Reinforcement Bars			Pound	22950

LE LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - ZTB	REVISED - 01/11/2012 T.B.P.
	FILE NAME =	CHECKED - TBP	REVISED -
	PLOT SCALE =	DRAWN - AJF	REVISED -
	PLOT DATE =	CHECKED - TBP	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS
STRUCTURE NO. 055-2509**

SHEET NO. 2 OF 3 SHEETS

F.A.P. RTE. 407	SECTION (55-31A)	COUNTY MCDONOUGH	TOTAL SHEETS 671	SHEET NO. 290
CONTRACT NO. 68A42			ILLINOIS FED. AID PROJECT - D-94-036-11	



SOIL BORING LOG

Date 6/1/12

ROUTE FAP 407 (IL RTE 336) DESCRIPTION Culvert at CR 1500N, Sta. 5049+48 LOGGED BY TLM
 SECTION (55-3) A LOCATION SEC. 13, TWP. 6N, RNG. 3W, 4th PM
 COUNTY McDonough DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	DEPTH	BULGE	UCS	M-O-I-S-T	Surface Water Elev.	DEPTH	BULGE	UCS	M-O-I-S-T
Station 5049+48	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
BORING NO. B-4					Groundwater Elev.:				
Station 5049+25					First Encounter NA ft				
Offset 27.0 ft RT					Upon Completion NA ft				
Ground Surface Elev. 698.24					After Hrs. NA				
Approx. 12" Topsoil	697.24				BOTTOM OF BORING				
SILTY CLAY LOAM , dark brown to brown, soft to medium stiff	2	1.2	31		End of Boring				
	2	B							
	1	1.9	29						
brown and gray	3	B							
	-5	2							
	2	1.7	24						
	3	B							
	3								
gray	2	1.3	26						
	4	B							
	-10	4							
	2	1.2	24						
	3	B							
	3								
	2		28						
	3								
	5								
683.24	-15								
SILTY CLAY LOAM , gray to dark gray, very stiff	3	3.3	13						
	10	B							
	16								
680.24									
SILTY LOAM , brownish gray, very dense	11		8						
	23								
	32								
678.24	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/1/12

ROUTE FAP 407 (IL RTE 336) DESCRIPTION Culvert at CR 1500N, Sta. 5049+48 LOGGED BY TLM
 SECTION (55-3) A LOCATION SEC. 13, TWP. 6N, RNG. 3W, 4th PM
 COUNTY McDonough DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	DEPTH	BULGE	UCS	M-O-I-S-T	Surface Water Elev.	DEPTH	BULGE	UCS	M-O-I-S-T
Station 5049+48	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
BORING NO. B-5					Groundwater Elev.:				
Station 5049+70.5					First Encounter 680.5 ft				
Offset 12.0 ft LT					Upon Completion 681.5 ft				
Ground Surface Elev. 698.50					After 0.25 Hrs. 681.5 ft				
Approx. 2" Asphalt Seal-Coat	698.30				BOTTOM OF BORING				
Approx. 8" Crushed Limestone	697.70				End of Boring				
FILL: SILTY CLAY LOAM , trace gravel and organics, dark brown and brown	2	0.7	22						
	2	B							
	1								
	695.00								
SILTY CLAY LOAM , dark brown to brownish gray, soft to stiff	0	0.9	33						
	2	B							
	-5	2							
	1	0.5	30						
dark gray to gray	2	B							
	2								
	1	1.3	28						
	2	B							
	-10	2							
	2	1.3	27						
	3	B							
	3								
	2	2.0	26						
	3	B							
	4								
682.50	-15								
SILTY CLAY , gray, soft	0	0.2	26						
	1	B							
	2								
680.50									
SILTY LOAM , brownish gray, loose	3		21						
	3								
	3								
678.50	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



USER NAME =	DESIGNED - ZTB	REVISED -
FILE NAME =	CHECKED - TBP	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - TBP	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

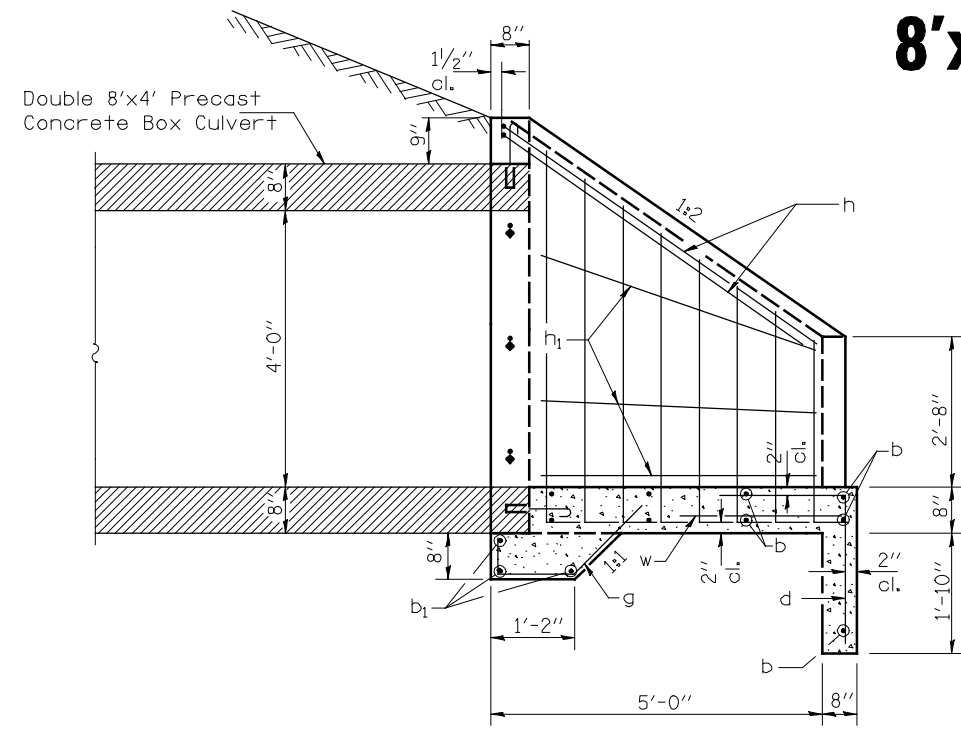
SOIL BORING LOGS STRUCTURE 055-2509 - STA. 5049 + 48.00

SHEET NO. 3 OF 3 SHEETS

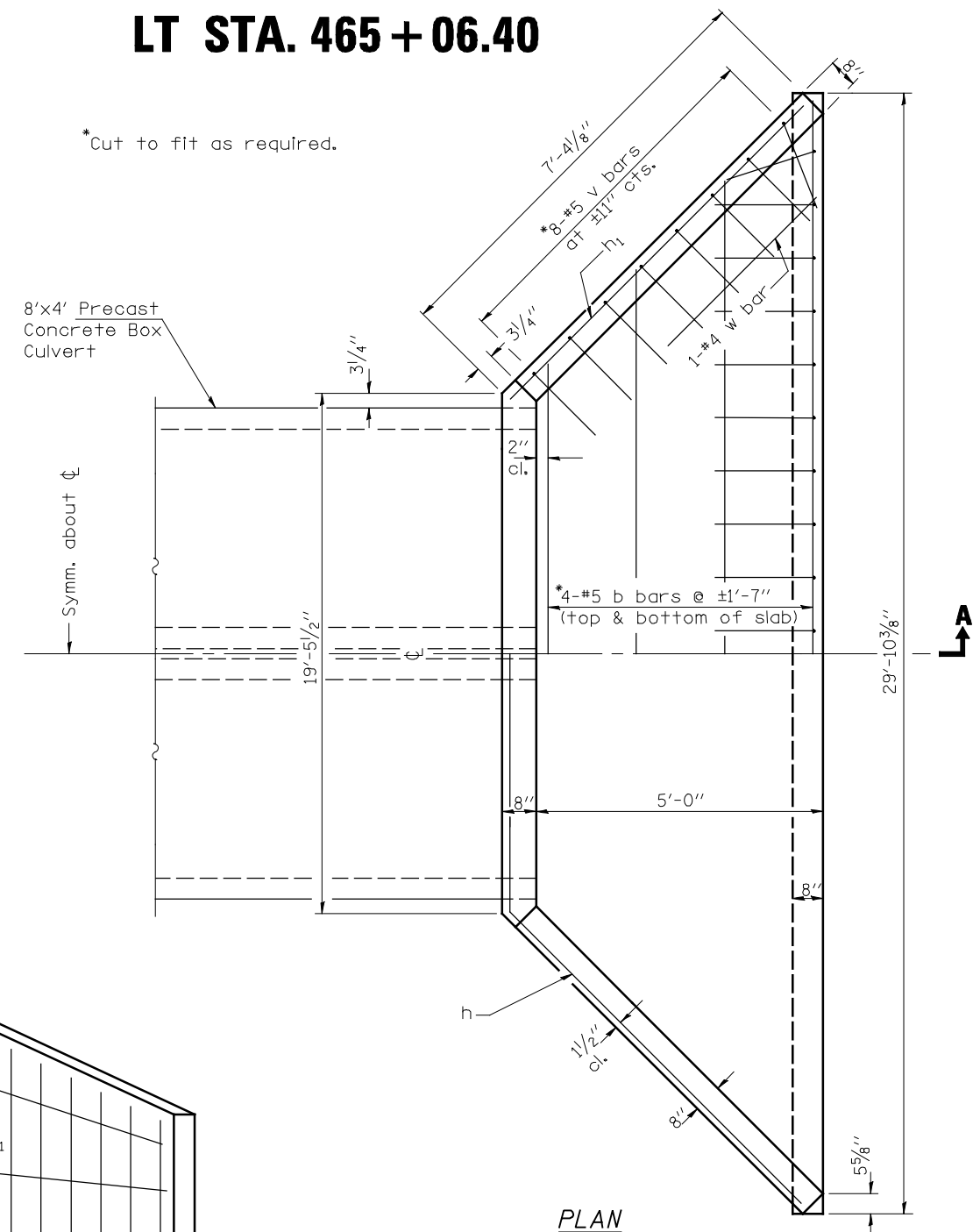
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	671	291
			CONTRACT NO. 68A42	

8'x4' Double Box Culvert End Section

LT STA. 465 + 06.40



SECTION A-A



PLAN

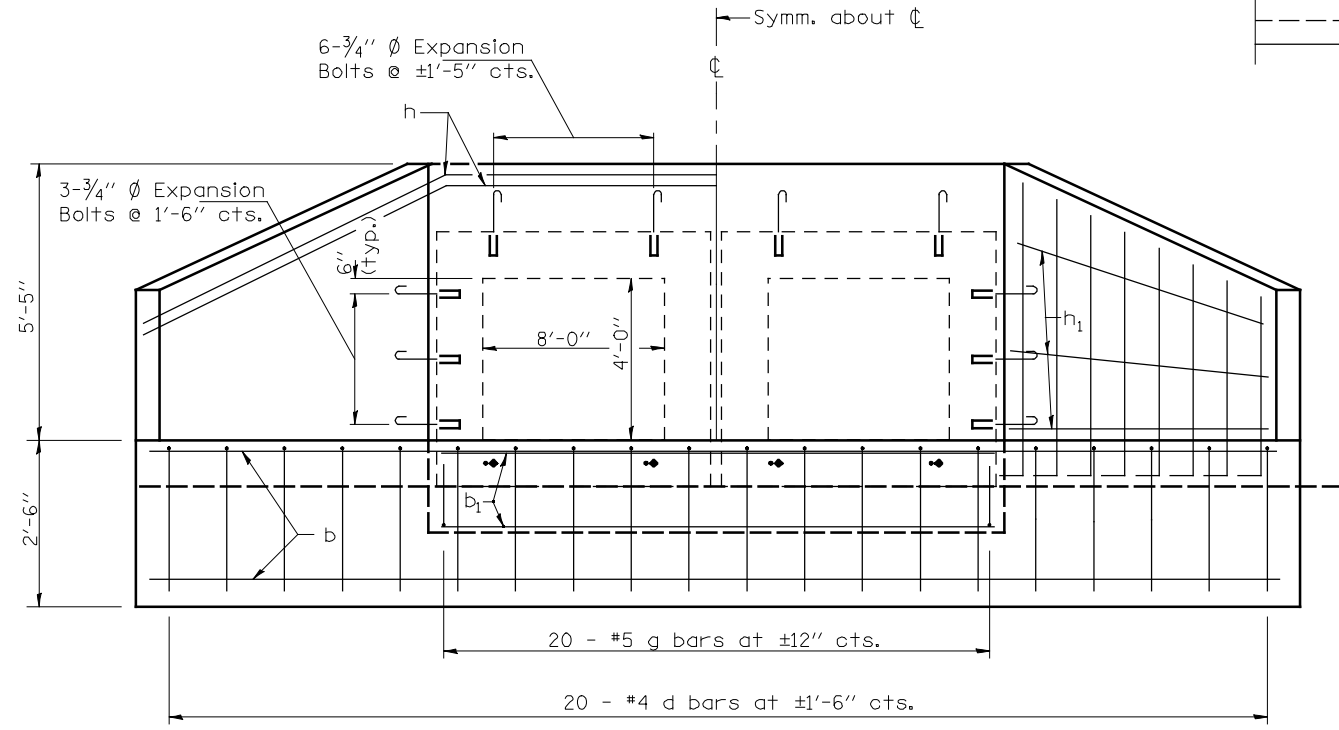
GENERAL NOTES

See Plan and Profile Sheet for more information.
See Cross Section Sheet for more information.
This work shall be done according to the applicable portions of 503, 508, and 540 of the Standard Specifications.
Exposed Edges shall be beveled 3/4".
The Contract unit price "EACH" for Box Culvert End Sections, Culvert No. 1 shall include the Expansion Bolts, Concrete Structures, Reinforcement Bars, Earth Excavation where required, and necessary grading to fit the end section as shown in the cross section or to the slope.
Slope Flow Line of the extension at the same rate as the Flow Line of the box.

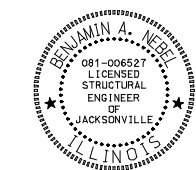
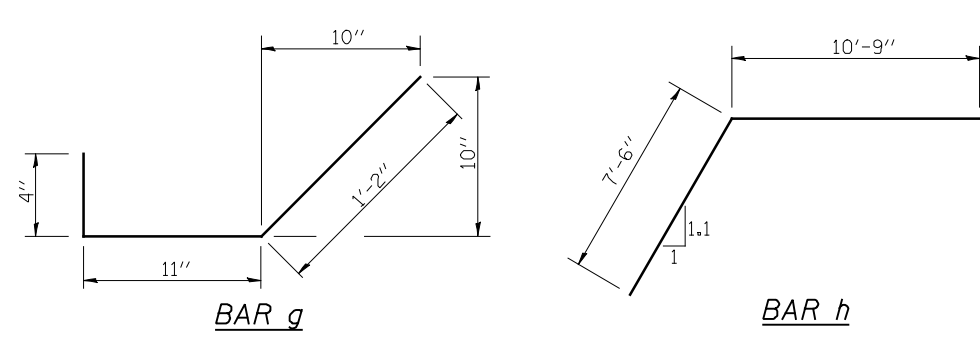
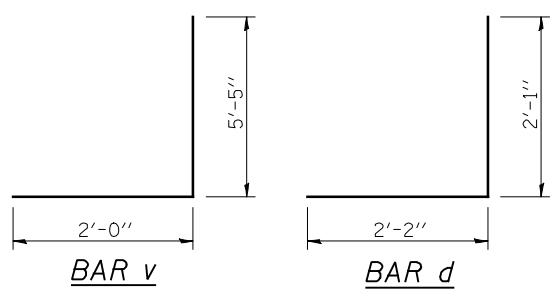
BILL OF MATERIALS
(For Information Only)

BAR	NO.	SIZE	LENGTH	SHAPE
b	9	5	29'-7"	—
b ₁	3	5	19'-4"	—
d	20	4	4'-3"	L
g	20	5	2'-5"	✓
h	4	5	18'-3"	—
h ₁	6	5	6'-9"	—
v	16	5	7'-5"	—
w	2	4	4'-0"	—
Concrete Structures			CU YD	7.4
Reinforcement Bars			LB	690
DESCRIPTION			UNIT	QTY.
3/4" Ø Expansion Bolts			EACH	30

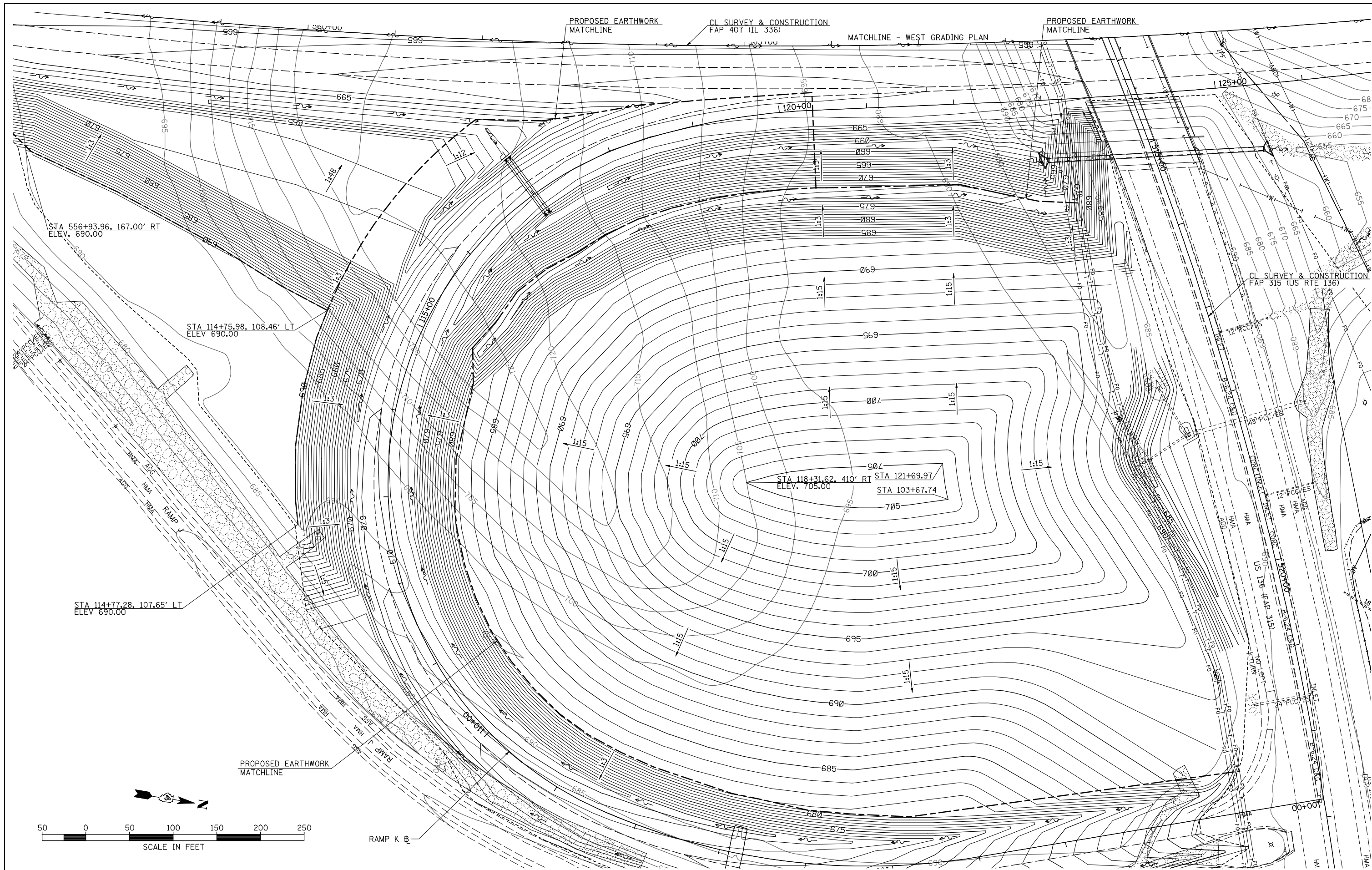
MIN. BAR LAP
#5 bar = 2'-2"



END ELEVATION



Ben A. Nebel Date: 12/10/2012
Expires: 11/30/2014



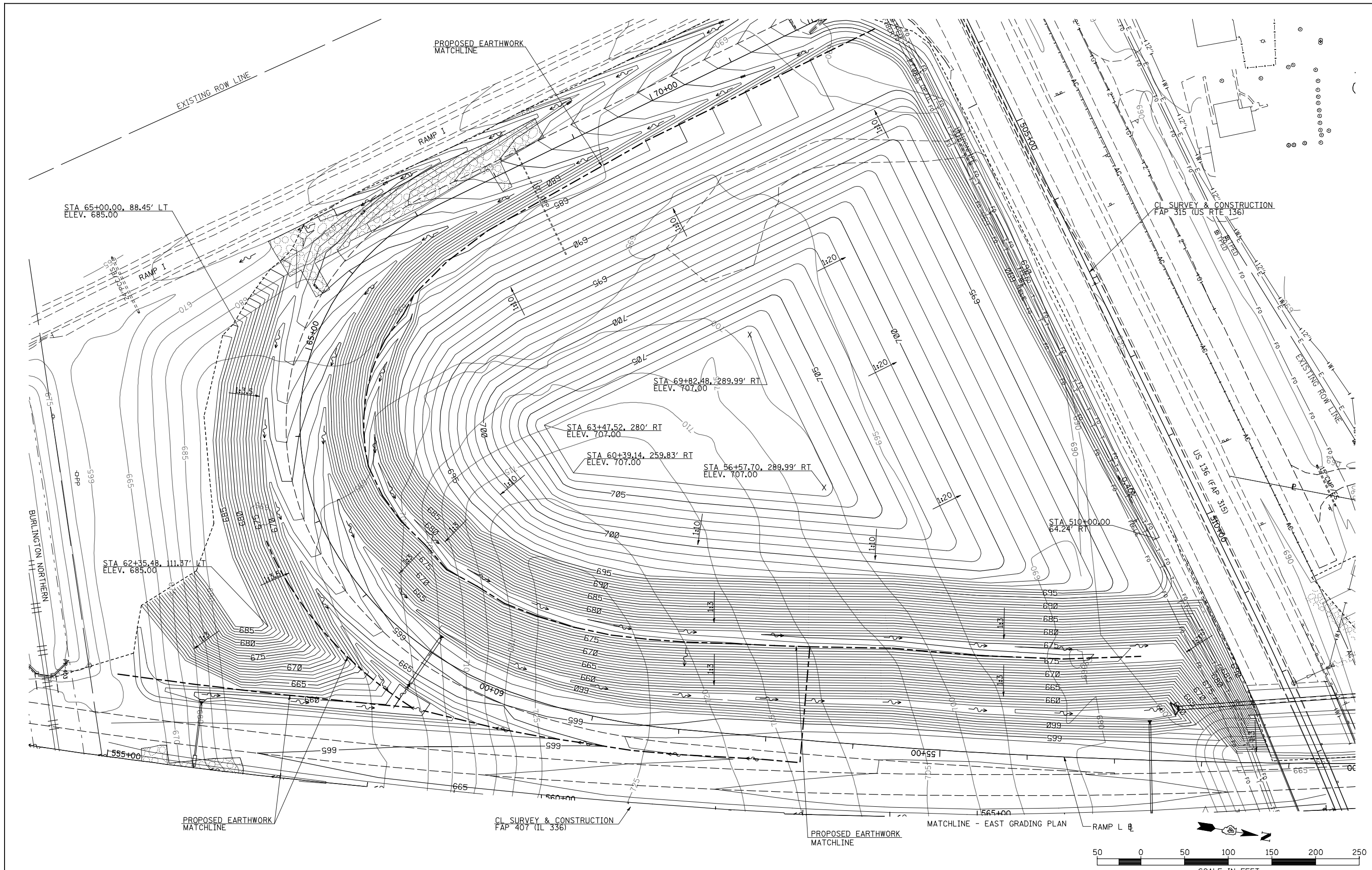
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	PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
EAST GRADING PLAN - IL RTE 336 /US RTE 136 INTERCHANGE**

SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	294
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				



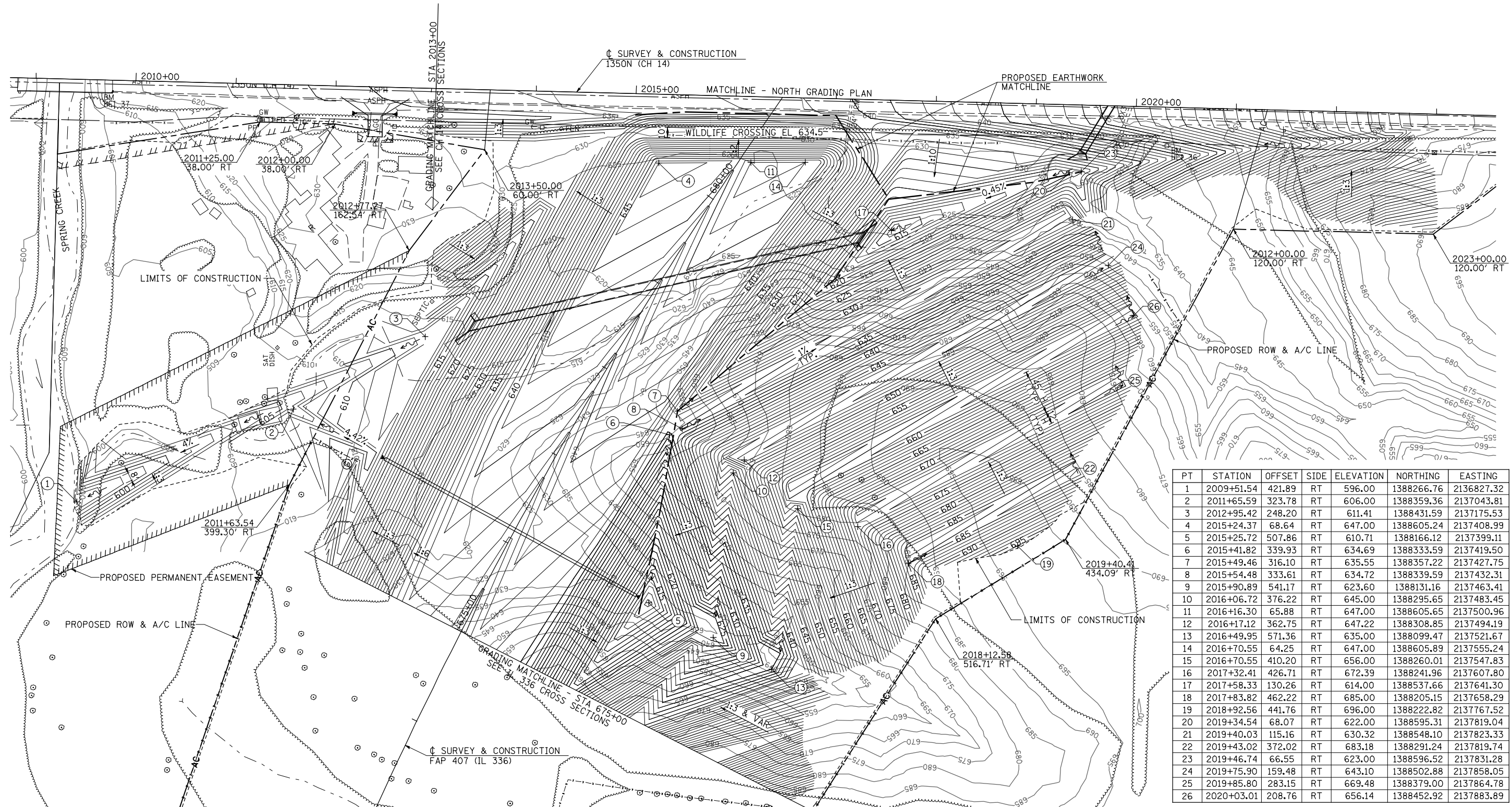
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PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

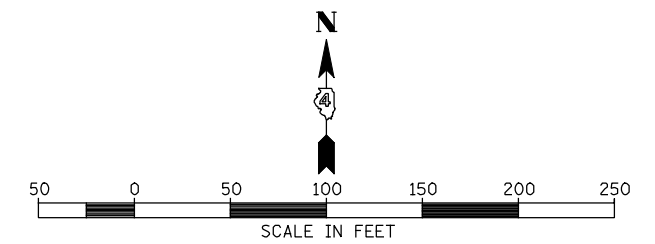
**FAP 407 (IL RTE 336)
WEST GRADING PLAN - IL RTE 336 /US RTE 136 INTERCHANGE**

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. N/A TO STA. N/A

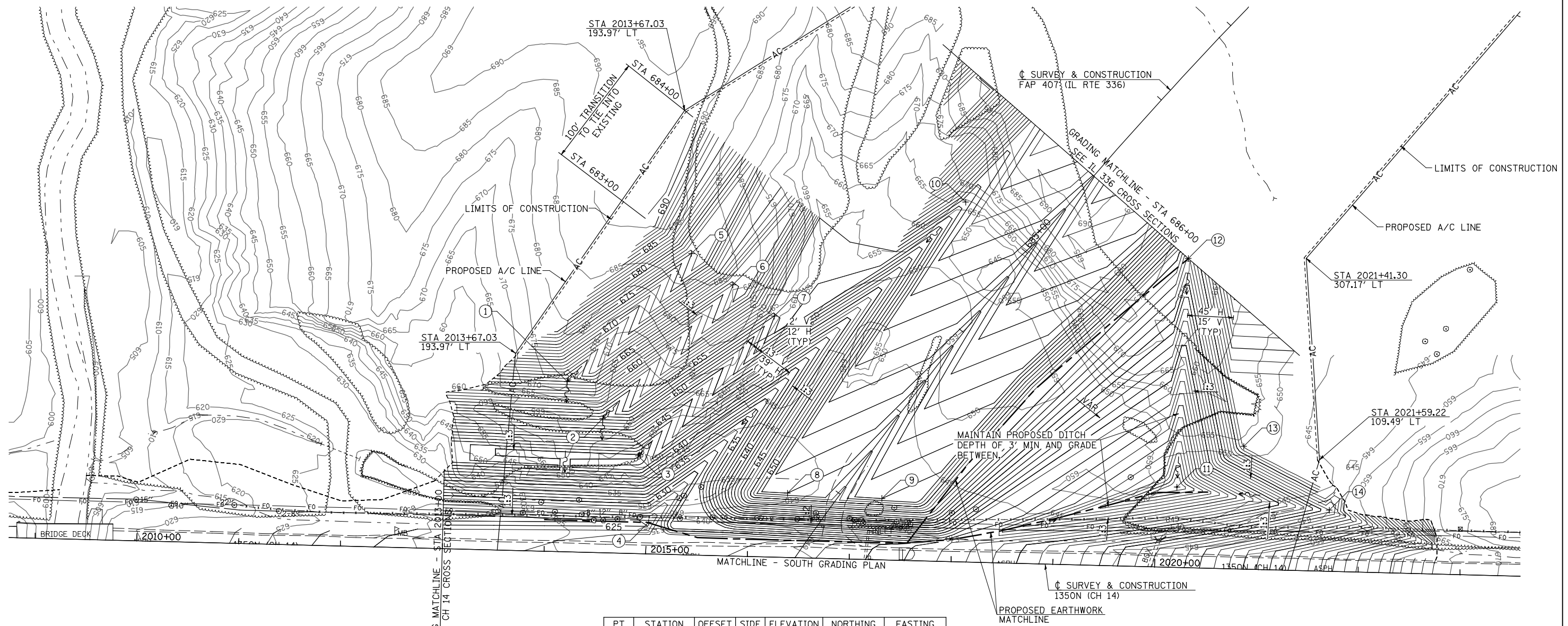
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	295
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				



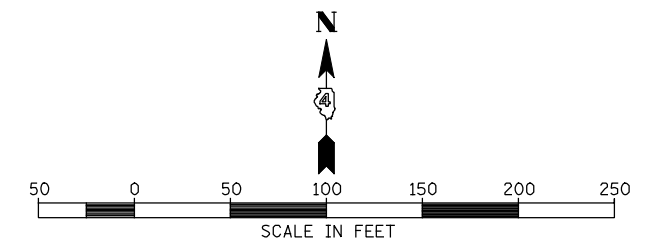
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1	2009+51.54	421.89	RT	596.00	1388266.76	2136827.32
2	2011+65.59	323.78	RT	606.00	1388359.36	2137043.81
3	2012+95.42	248.20	RT	611.41	1388431.59	2137175.53
4	2015+24.37	68.64	RT	647.00	1388605.24	2137408.99
5	2015+25.72	507.86	RT	610.71	1388166.12	2137399.11
6	2015+41.82	339.93	RT	634.69	1388333.59	2137419.50
7	2015+49.46	316.10	RT	635.55	1388357.22	2137427.75
8	2015+54.48	333.61	RT	634.72	1388339.59	2137432.31
9	2015+90.89	541.17	RT	623.60	1388131.16	2137463.41
10	2016+06.72	376.22	RT	645.00	1388295.65	2137483.45
11	2016+16.30	65.88	RT	647.00	1388605.65	2137500.96
12	2016+17.12	362.75	RT	647.22	1388308.85	2137494.19
13	2016+49.95	571.36	RT	635.00	1388099.47	2137521.67
14	2016+70.55	64.25	RT	647.00	1388605.89	2137555.24
15	2016+70.55	410.20	RT	656.00	1388260.01	2137547.83
16	2017+32.41	426.71	RT	672.39	1388241.96	2137607.80
17	2017+58.33	130.26	RT	614.00	1388537.66	2137641.30
18	2017+83.82	462.22	RT	685.00	1388205.15	2137658.29
19	2018+92.56	441.76	RT	696.00	1388222.82	2137767.52
20	2019+34.54	68.07	RT	622.00	1388595.31	2137819.04
21	2019+40.03	115.16	RT	630.32	1388548.10	2137823.33
22	2019+43.02	372.02	RT	683.18	1388291.24	2137819.74
23	2019+46.74	66.55	RT	623.00	1388596.52	2137831.28
24	2019+75.90	159.48	RT	643.10	1388502.88	2137858.05
25	2019+85.80	283.15	RT	669.48	1388379.00	2137864.78
26	2020+03.01	208.76	RT	656.14	1388452.92	2137883.89



FILE NAME =	USER NAME = jolson	DESIGNED - JRB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 407 (IL RTE 336) SOUTH GRADING PLAN - COUNTY HIGHWAY 14			F.A.P. RTE. 407	SECTION (55-3)A	COUNTY McDONOUGH	TOTAL SHEETS 671	SHEET NO. 296
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PLOT SCALE = 100.0000' / IN.		CHECKED - AWM	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -									



PT	STATION	OFFSET	SIDE	ELEVATION	NORTHING	EASTING
1	2014+18.49	167.51	LT	663.00	1388844.01	2137309.19
2	2014+54.35	131.92	LT	651.32	1388807.52	2137344.12
3	2014+90.11	96.28	LT	639.63	1388770.98	2137378.96
4	2015+02.06	31.15	LT	625.25	1388705.56	2137389.24
5	2015+37.44	296.46	LT	674.95	1388969.88	2137431.40
6	2015+78.81	266.63	LT	663.95	1388939.01	2137471.99
7	2016+20.18	236.80	LT	652.95	1388908.13	2137512.58
8	2016+37.65	63.24	LT	651.00	1388734.18	2137525.61
9	2017+30.61	60.45	LT	651.00	1388229.01	2137618.46
10	2018+05.34	353.76	LT	656.53	1389020.32	2137700.68
11	2020+20.00	79.13	LT	623.00	1388740.28	2137908.24
12	2020+25.42	304.04	LT	642.22	1388964.97	2137919.41
13	2020+84.44	120.68	LT	647.00	1388780.17	2137973.72
14	2021+70.00	60.25	LT	641.00	1388717.57	2138057.71



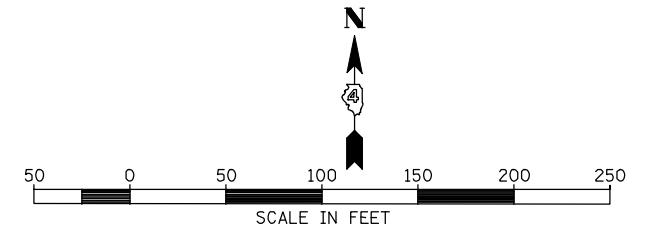
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PLOT DATE = 12/12/2012		DATE - 12-12-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 407 (IL RTE 336)
NORTH GRADING PLAN - COUNTY HIGHWAY 14**

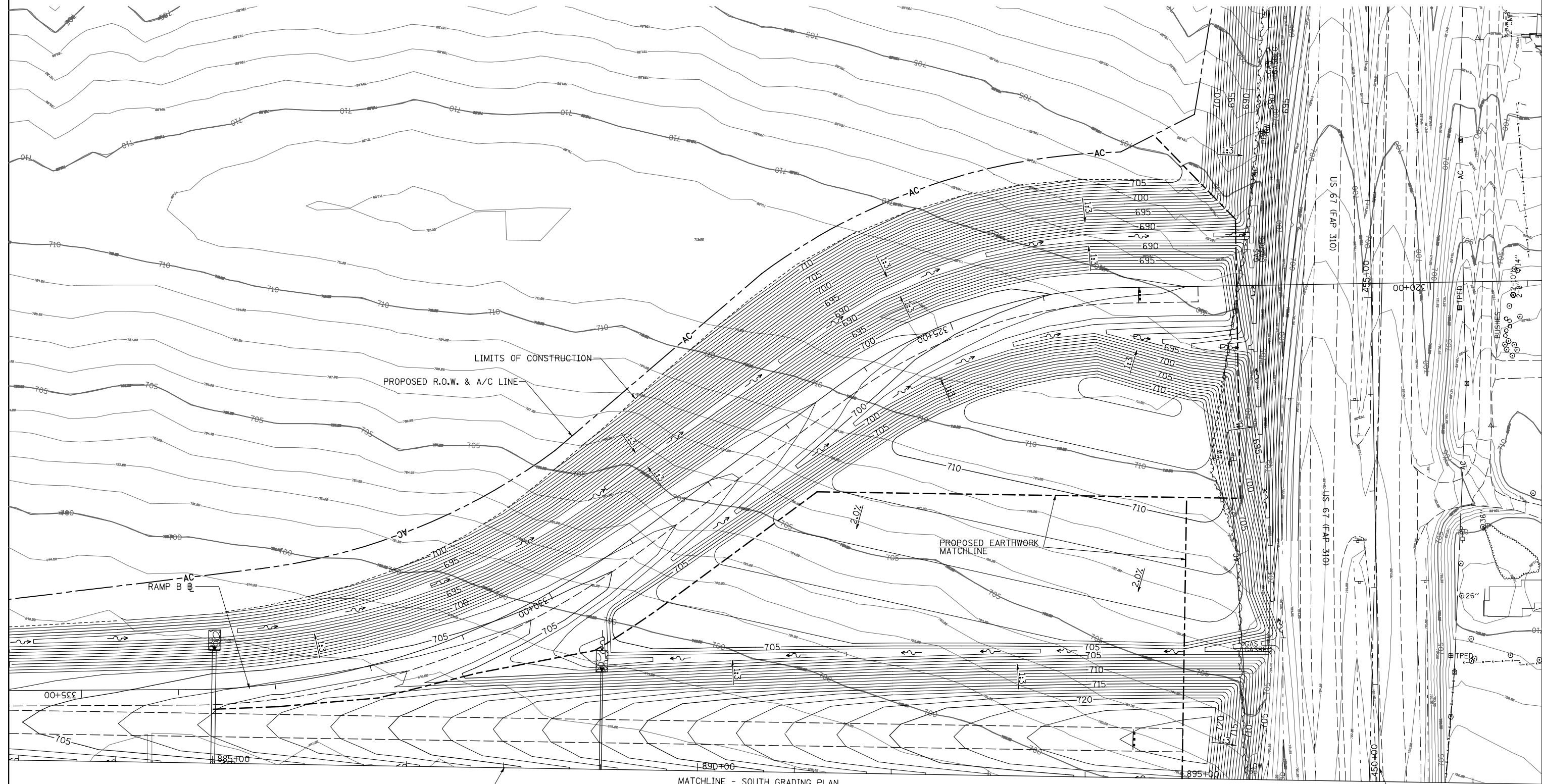
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	297
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	NO. CAD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		



MATCHLINE - SOUTH GRADING PLAN

CL SURVEY & CONSTRUCTION
FAP 407 (IL RTE 336)

CL SURVEY & CONSTRUCTION
FAP 310 (US 67)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 307 (IL RTE 336)
NORTH GRADING PLAN - IL RTE 336 /US RTE 67 INTERCHANGE**

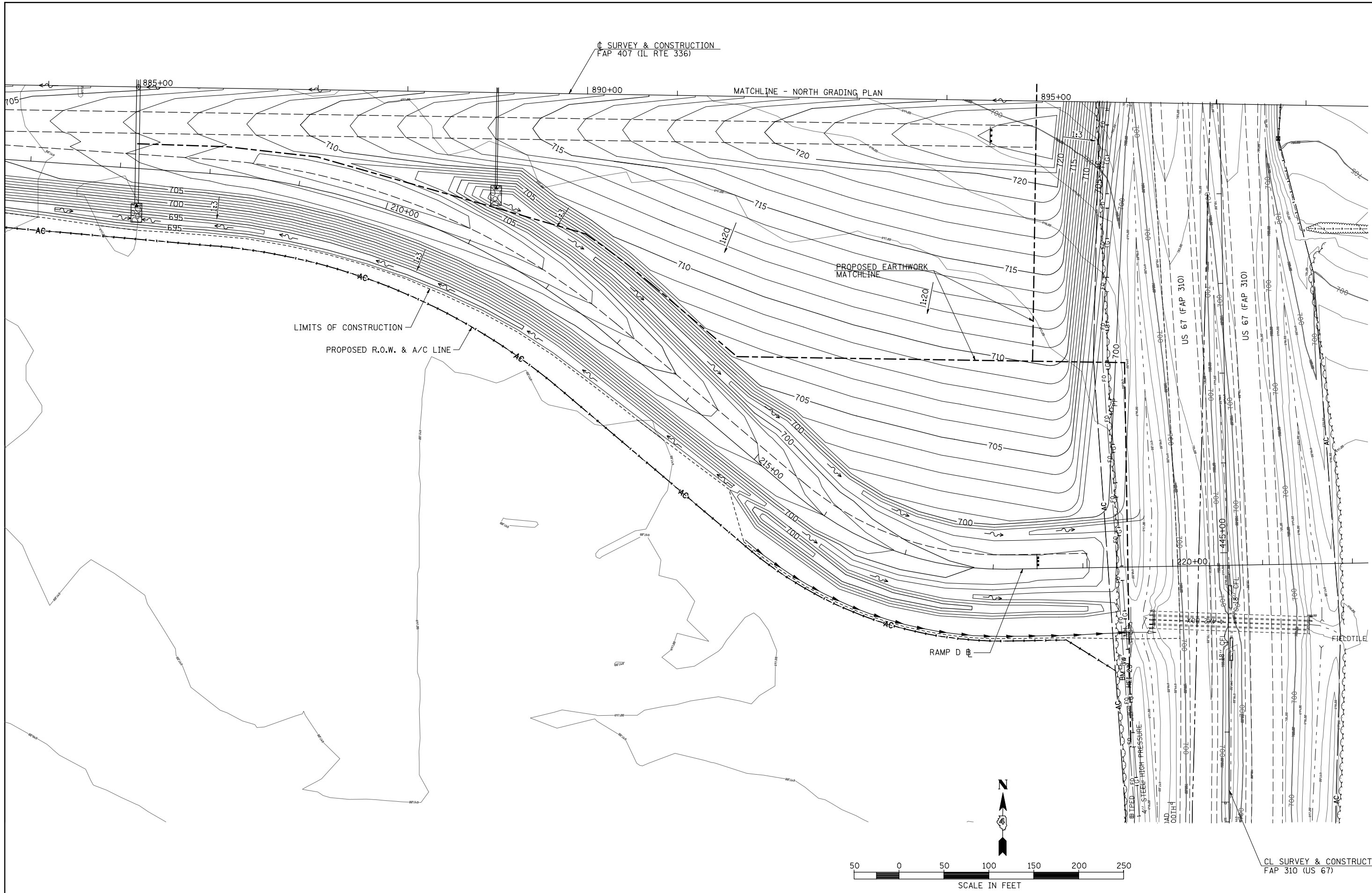
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	MCDONOUGH	671	298
			CONTRACT NO. 68A42	

ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	NO.	



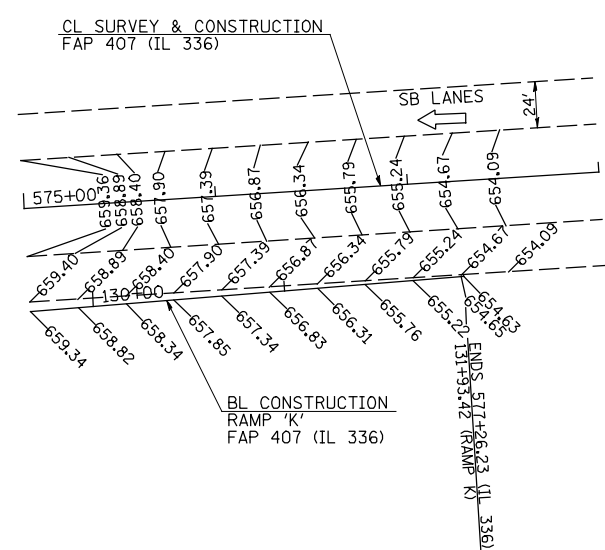
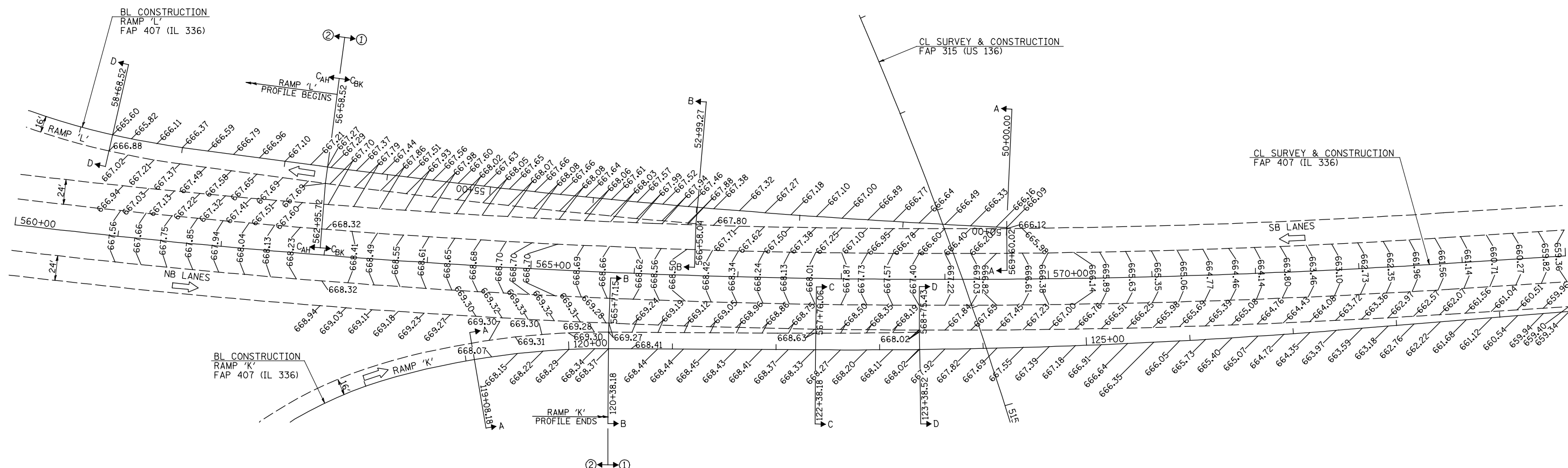
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 307 (IL RTE 336)		
SOUTH GRADING PLAN - IL RTE 336 /US RTE 67 INTERCHANGE		
SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS	STA. 884+00.00 TO STA. 896+00.00

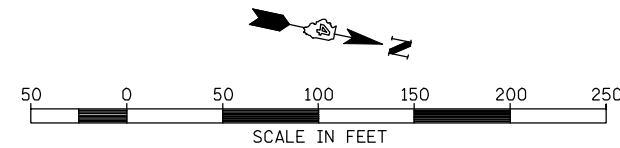
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
407	(55-3)A	McDONOUGH	671	299
			CONTRACT NO. 68A42	
ILLINOIS FED. AID PROJECT				

CL SURVEY & CONSTRUCTION
FAP 310 (US 67)



NOTE:
 ELEVATIONS SHOWN ARE FOR THE FUTURE PAVEMENT SURFACE. CONTRACTOR SHALL GRADE TO AN ELEVATION 1 1/4" LESS THAN THE SURFACE ELEVATIONS SHOWN.

- ① ELEVATIONS GIVEN ALONG IL 336 STATIONING AT 25' CENTERS
- ② ELEVATIONS GIVEN ALONG RAMP STATIONING AT 25' CENTERS



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PLOT SCALE = 100.0000' / IN.	CHECKED - AWM	REVISOR -	REVISOR -		SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 68A42			
PLOT DATE = 12/12/2012	DATE - 12-12-12	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT							