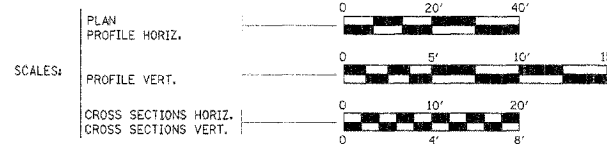


SECTION NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAS 507	*	Vermilion	54	1
*05-00154-00-BR				

INDEX OF SHEETS

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2	SUMMARY OF QUANTITIES
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6	GENERAL NOTES
7	TYPICAL SECTIONS
8 - 10	GENERAL PLAN AND PROFILES
11 - 12	WATER LINE PLAN AND PROFILES
13 - 14	SANITARY SEWER PLAN AND PROFILES
15 - 17	STORM SEWER PLAN AND PROFILES
18 - 20	EROSION CONTROL PLANS
21 - 23	R.O.W. PLANS
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25	SEWER DETAILS
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27	PUMP STATION DETAILS
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29	INTERSECTION DETAILS
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31 - 47	CROSS SECTIONS
48	BRIDGE - GENERAL PLAN & ELEVATION
49	SUPERSTRUCTURE DETAILS
50	STEEL RAILING TYPE SM (SPECIAL)
51	PEDESTRIAN RAILING (SPECIAL)
52 - 53	ABUTMENTS
54	BLOCK WALL DETAILS

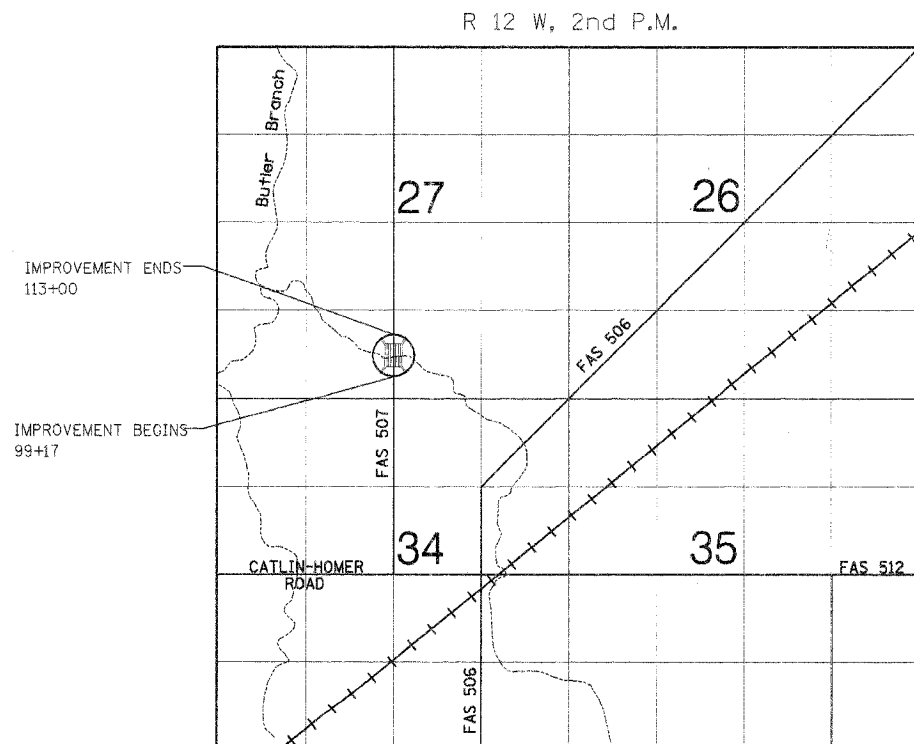
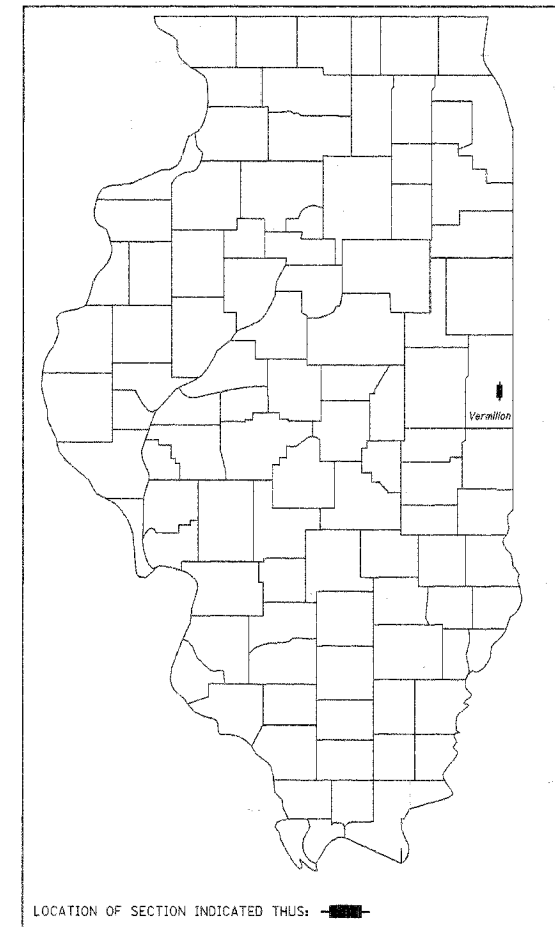
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
BRIDGE REPLACEMENT**



VERMILION COUNTY
SECTION 05-00154-00-BR
FAU 7060 / FAS 507
SECONDARY TRANSPORTATION
URBAN
PROJECT NO. M-5016(033)
JOB NO. C-95-301-06

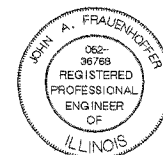
ILLINOIS DEPT. OF TRANSPORTATION STANDARD DRAWINGS

STANDARD NO.	DESCRIPTION
00001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
406201	MAILBOX TURNOUT
515001-02	NAME PLATE FOR BRIDGES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
602301-01	INLET - TYPE A
602306-01	INLET - TYPE B
602401-01	MANHOLE - TYPE A
602601-01	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-01	CAST IRON STEPS
604006-02	FRAME AND GRATE - TYPE 3
604036-01	GRATE - TYPE 8
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
667001	DRAINAGE MARKERS
701006-02	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
701001-01	TRAFFIC CONTROL DEVICES
701501-03	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-03	LANE CLOSURE MULTILANE 1 L OR 1 W CROSSWALK OR SIDEWALK CLOSURE
702001-06	TRAFFIC CONTROL DEVICES
BLR 21-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION OF RURAL LOCAL HIGHWAYS
BLR 24-1	MAILBOX TURNOUT FOR LOCAL ROADS



LOCATION MAP

PROPOSED STRUCTURE
STA. 107+78.15 SINGLE SPAN
PRECAST PRESTRESSED CONCRETE
DECK BEAM BRIDGE.
67.72' BK. TO BK ABUTMENTS
NO SKEW, 30'-0" O.-TO-O. OF DECK.
OLD STRUCTURE NO. - NONE
NEW STRUCTURE NO. 092-6040



John A. Frauenhoffer
JOHN ANTON FRAUENHOFFER
Illinois Licensed Professional Engineer Number 36768
License Expires November 30, 2007

APPROVED	12/08/06	20
	<i>Robert B. Andrews</i>	
	ROBERT ANDREWS, PE	COUNTY ENGINEER
APPROVED	12/08/06	20
	<i>Fred Reichert</i>	
	MAYOR	VILLAGE OF CATLIN
PASSED	12/19	20 06
	<i>Dale S. Smith</i>	
	DISTRICT FOUR ENGINEER OF	LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	12/18	20 06
	<i>Joseph C. Cress</i>	
	DEPUTY DIRECTOR OF HIGHWAYS,	REGION FIVE ENGINEER
	STATE OF ILLINOIS	DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 507	*	Vermilion	54	2
FED. ROAD DIST. NO. 7		SHEETS		PROJECT
				*05-00154-00-BR

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITIES <i>1000-2A</i>	CODE NO.	ITEM	UNIT	TOTAL QUANTITIES <i>1000-2A</i>
20100110	Tree Removal (6 To 15 Units Diameter)	Unit	46	59300100	Controlled Low-Strength Material (C.L.S.M.)	Cu Yd	102
20100210	Tree Removal (Over 15 Units Diameter)	Unit	226	60218500	Manholes, Type A, 4'-Diameter, Type 3 Frame And Grate	Each	6
20100500	Tree Removal, Acres	Acres	0.45	60219000	Manholes, Type A, 4'-Diameter, Type 8 Grate	Each	2
20200100	Earth Excavation	Cu Yd	1862	60235700	Inlets, Type A, Type 3 Frame And Grate	Each	7
*20400800	Furnished Excavation	Cu Yd	3341	60236200	Inlets, Type A, Type 8 Grate	Each	1
*20800150	Trench Backfill	Cu Yd	716	60240220	Inlets, Type B, Type 3 Frame And Grate	Each	7
*21101505	Topsoil Excavation And Placement	Cu Yd	179	60255500	Manholes To Be Adjusted	Each	4
25000200	Seeding, Class 2	Acre	1.1	60500050	Removing Catch Basins	Each	1
25000400	Nitrogen Fertilizer Nutrient	Pound	99	60600095	Class S I Concrete (Outlet)	Cu Yd	2.8
25000500	Phosphorus Fertilizer Nutrient	Pound	99	60605000	Combination Concrete Curb And Gutter, Type B-6.24	Foot	2472
25000600	Potassium Fertilizer Nutrient	Pound	99	*66502300	Woven Wire Fence Removal	Foot	304
25002300	Temporary Seeding	Acre	1.1	66700205	Permanent Survey Markers, Type I	Each	2
*25100115	Mulch, Method 2	Acre	1.1	*67100100	Mobilization	L Sum	1
*28000300	Temporary Ditch Checks	Each	1	70300100	Short-Term Pavement Marking	Foot	160
28000400	Perimeter Erosion Barrier	Foot	3620	▲78001110	Paint Pavement Marking - Line 4"	Foot	705
28000500	Inlet And Pipe Protection	Each	23	▲78001180	Paint Pavement Marking - Line 24"	Foot	33
*35100100	Aggregate Base Course, Type A	Ton	2025	*X0322923	Segmental Concrete Block Wall	Sq Ft	732
*40200800	Aggregate Surface Course, Type B	Ton	151	*X2010400	Stump Removal Only	Unit	24
40600100	Bituminous Materials (Prime Coat)	Gallon	1325	40603310	Hot Mix Asphalt Surface Course Mix C, N 50	Ton	300
40600300	Aggregate (Prime Coat)	Ton	6	40603080	Hot Mix Asphalt Binder Course, II-19.0, N50	Ton	720
40800050	Incidental Hot Mix Asphalt Surfacing	Ton	85	*XX000856	Mailbox Removal & Relocation	Each	5
42300200	Portland Cement Concrete Driveway 6 Inch	Sq Yd	109	*XX004565	Grouted Riprap	Sq Yd	548
42300400	Portland Cement Concrete Driveway 8 Inch	Sq Yd	30	*XX004566	Concrete Cut-Off Wall	Cu Yd	7.6
42400200	Portland Cement Concrete Sidewalk 5 Inch	Sq Ft	5730	*X0322924	Retaining Wall Removal	Sq Ft	250
42400800	Detectable Warnings	Sq Ft	63	*Z0013798	Construction Layout	L Sum	1
44000100	Pavement Removal	Sq Yd	3139	*Z0015000	Curb Stops 1"	Each	4
44000200	Driveway Pavement Removal	Sq Yd	64	*Z0051500	Removing And Resetting Street Signs	Each	2
44000600	Sidewalk Removal	Sq Ft	266	*Z0056700	Sanitary Sewer 4"	Foot	562
*50100100	Removal Of Existing Structures	Each	1	▲56108800	Tapping Sleeve & Valve, 6"	Each	2
*50105200	Remove Existing Culverts	Each	7	*X0006710	Remove And Replace Existing Block Wall	Sq Ft	320
50200100	Structure Excavation	Cu Yd	20	▲*X0335700	Pump Station General Work	L Sum	1
*50300225	Concrete Structures	Cu Yd	60.3				
50400505	Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft	2390				
*50800105	Reinforcement Bars	Lb	3840				
50901050	Steel Railing, Type SM	Foot	132				
*50900805	Pedestrian Railing	Foot	137				
51201400	Furnishing Steel Piles, HP 10x42	Foot	168				
51202305	Driving Piles	Foot	168				
51203400	Test Pile Steel H.P. 10 X 42	Each	2				
51204650	Pile Shoes	Each	14				
51500100	Name Plates	Each	1				
54213657	Precast Reinforced Concrete Flared End Section, 12"	Each	4				
550A0050	Storm Sewers, Class A, Type 1 12"	Foot	497				
550A0340	Storm Sewers, Class A, Type 2 12"	Foot	807				
▲56100600	Water Main 6"	Foot	1034				
▲56109210	Water Valves To Be Adjusted	Each	7				
▲56200300	Water Service Line 1"	Foot	137				
▲56201400	Corporation Stops 1"	Each	4				
▲56400710	Fire Hydrant And Valve (Special)	Each	1				
▲56400800	Fire Hydrant And Valve To Be Moved	Each	1				
58100200	Waterproofing Membrane System	Sq Yd	221				

▲ SPECIALTY ITEMS

* SEE SPECIAL PROVISIONS

DSGN K.J. Hoffmann					FRAUENHOFFER Frauenhoffer and Associates, P.C. Consulting Engineers 3002 Crossing Court Champaign, IL 61822 217-351-6268	SUMMARY OF QUANTITIES VILLAGE OF CATLIN SECTION 05-00154-00-BR VERMILION COUNTY	SHEET 2
DR K.J. Hoffmann				DWG NO. 5022-sum.dwg			
CHK A. Frauenhoffer				DATE AUG 2006			
APVD A. Frauenhoffer	NO.	DATE	REVISION	BY			APVD

PLAN NO.	SECTION	SCALE	SHEET	TOTAL
FAS 507 *	Vermilion	54	3	

*05-00154-00-BR

SCHEDULE OF QUANTITIES

20100100

TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
LOCATION	UNIT
STA. 100+35, 21' RT	6
STA. 101+95, 20' RT	12
STA. 102+11, 20' RT	10
STA. 104+05, 17' RT	10
STA. 104+15, 17' RT	8
TOTAL	46

20100210

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
LOCATION	UNIT
STA. 100+89, C	36
STA. 101+62, 17.5' RT	10
STA. 101+63, 17' RT	18
STA. 101+70, 30' LT	46
STA. 101+84, 18' RT	38
STA. 104+42, 51' RT	32
STA. 107+96, 25' LT	24
STA. 109+00, 30' LT	18
TOTAL	206

20100500

TREE REMOVAL, ACRES	
LOCATION	ACRES
RT STA. 104+18.0 TO STA. 106+27.0	0.20
LT STA. 105+21.0 TO STA. 106+46.0	0.25
TOTAL	0.45

25000200

SEEDING, CLASS 2	
LOCATION	ACRE
STA. 99+17 TO STA. 113+00	1.1
TOTAL	1.1

25000400

NITROGEN FERTILIZER NUTRIENT	
LOCATION	POUND
STA. 99+17 TO STA. 113+00	99
TOTAL	99

25000500

PHOSPHORUS FERTILIZER NUTRIENT	
LOCATION	POUND
STA. 99+17 TO STA. 113+00	99
TOTAL	99

25000600

POTASSIUM FERTILIZER NUTRIENT	
LOCATION	POUND
STA. 99+17 TO STA. 113+00	99
TOTAL	99

25100115

MULCH, METHOD 2	
LOCATION	ACRE
STA. 99+17 TO STA. 113+00	1.1
TOTAL	1.1

35100100

AGGREGATE BASE COURSE, TYPE A	
LOCATION	TON
STA. 99+17 TO STA. 107+45	1906
STA. 108+11 TO STA. 113+00	719
TOTAL	2625

40800040

INCIDENTAL BITUMINOUS SURFACING	
LOCATION	TONS
TRANSITIONAL PAVEMENTS	
STA. 99+17 TO STA. 99+18.5	18
LT STA. 99+41 TO STA. 100+12.5	2
RT STA. 99+41 TO STA. 100+10	10
LT STA. 11+68 TO STA. 11+92	5
STA. 112+33 TO STA. 113+00	27
PRIVATE DRIVEWAYS	
RT STA. 99+60	3
RT STA. 102+38	6
TOTAL	85

42400200

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	
LOCATION	SQ FT
LT STA. 99+56.5 TO STA. 99+83	108.4
LT STA. 109+24 TO STA. 107+45	3592.5
LT STA. 108+11 TO STA. 111+65	1804.3
LT STA. 111+94 TO STA. 112+05	126.8
TOTAL	5730

44000100

PAVEMENT REMOVAL	
LOCATION	SQ YD
STA. 99+17 TO STA. 113+00	3139
TOTAL	3139

44000200

DRIVEWAY PAVEMENT REMOVAL	
LOCATION	SQ YD
RT STA. 99+60	17.7
RT STA. 102+38	46.3
TOTAL	64

44000600

SIDEWALK REMOVAL	
LOCATION	SQ FT
LT STA. 99+56.5 TO STA. 99+83	277.1
LT STA. 111+94 TO STA. 112+01	88.9
TOTAL	366

50100100

REMOVAL OF EXISTING STRUCTURES	
LOCATION	CU YD
EXISTING CULVERT	1
TOTAL	1

50100200

REMOVAL OF EXISTING CULVERTS		TRENCH BACKFILL
LOCATION	EACH	CU YD
LT STA. 102+53 - 12" CMP 22.6	1	3
RT STA. 108+10 - 10" FIELD TILE 20'	1	0
RT STA. 108+10 - 12" FIELD TILE 25'	1	0
LT STA. 108+42 - 15" CMP 24.3'	1	0
R STA. 109+61 - 12" ADS 7'	1	0
RT STA. 111+42 - 8" PVC 20'	1	0
RT STA. 112+13 - 8" PVC 30'	1	0
TOTAL	7	3

542:3657

PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"	
LOCATION	EACH
40' R STA. 108+20	1
50' LT STA. 106+07.5	1
44' LT STA. 106+15	1
44' LT STA. 106+15	1
TOTAL	4

550A0050

STORM SEWERS, CLASS A, TYPE 1, 12"		TRENCH BACKFILL
LOCATION	FOOT	CU YD
13.4 LT STA. 100+48 TO 33 LT STA. 100+85	41.4	4.0
13.4 RT STA. 103+33 TO 14.3 LT STA. 103+38	27.7	8.5
13.4 RT STA. 105+01 TO 14.3 LT STA. 105+01	27.7	8.6
13.4 RT STA. 106+05 TO 13.7 RT STA. 106+13	10	1.9
12.7 RT STA. 106+15 TO 17.5 RT STA. 106+18	23.6	0.9
13.7 RT STA. 108+20 TO 17.5 RT STA. 108+20	43.8	0.0
13.4 RT STA. 108+02 TO 14.3 LT STA. 108+02	27.7	8.8
13.4 RT STA. 110+18 TO 14.3 LT STA. 110+18	27.7	8.8
14.2 RT STA. 111+22 TO 14.2 RT STA. 110+18	104	34.2
13.4 RT STA. 111+22 TO 14.3 LT STA. 111+22	27.7	8.0
13.7 RT STA. 111+88 TO 14.2 RT STA. 111+22	60	20.1
14 RT STA. 112+50 TO 13.7 RT STA. 111+88	62	16.7
13.4 LT STA. 112+50 TO 14 RT STA. 112+50	27.5	6.6
TOTALS	497	127.6

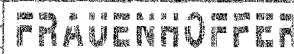
550A0340

STORM SEWERS, CLASS A, TYPE 2, 12"		TRENCH BACKFILL
LOCATION	FOOT	CU YD
33 LT STA. 100+85 TO 35 LT STA. 101+50	65.5	5.9
35 LT STA. 101+50 TO 14.2 LT STA. 101+70	26.9	7.6
14.2 LT STA. 101+70 TO 14.2 LT STA. 103+33	162.5	109.0
14.2 LT STA. 103+33 TO 14.2 LT STA. 105+01	166.5	154.3
14.2 LT STA. 105+01 TO 13.7 LT STA. 106+05	104.0	86.0
13.7 LT STA. 106+05 TO 13.7 LT STA. 106+15	10.0	3.4
13.7 LT STA. 106+15 TO 44 LT STA. 106+18	30.3	1.4
13.7 LT STA. 106+18 TO 40 LT STA. 106+08	39.3	1.4
14.2 RT STA. 108+02 TO 13.7 RT STA. 108+20	62.0	36.5
14.2 RT STA. 110+18 TO 14.2 RT STA. 109+02	116.0	50.3
TOTAL	607	506.8

56100600

WATER MAIN 6" (C900)		TRENCH BACKFILL
LOCATION	FOOT	CU YD
LT STA. 99+51.5 AT HYDRANT	0	1.3
LT STA. 99+51.5 MAIN	18	4.0
STA. 99+51.5 TO STA. 109+30.6	886	59.6
LT STA. 109+30.6	18	0.2
RT STA. 109+30.6 AT HYDRANT	0	0.0
TOTAL	1032	65.1

DSGN	K.J. Hoffmann						
DR	K.J. Hoffmann						
CHK	J.A. Frauenhoffer						
APVD	J.A. Frauenhoffer	NO.	DATE	REVISION	BY	APVD	



Frauenhoffer and Associates, P.C. Consulting Engineers
3002 Crossing Court Champaign, IL 61822 217-361-6268

SCHEDULE OF QUANTITIES - SHEET 1 OF 3		SHEET 3
VILLAGE OF CATLIN SECTION 05-00154-00-BR VERMILION COUNTY		DATE JUN 2006 PROJ NO. 5022

SCHEDULE OF QUANTITIES - CONTINUED

PLATE NO.	SECTION	DATE	DATE	DATE
FAS 507	*	Vermilion	54	4
*05-00154-00-BR				

56109210
WATER VALVES TO BE ADJUSTED

LOCATION	EACH
STA. 99+28 LT	1
STA. 100+22 RT	1
STA. 102+48 RT	1
STA. 108+32 LT	1
STA. 114+98 LT	1
STA. 112+02 LT	1
STA. 112+12 LT	1
TOTAL	7

60236200
INLETS, TYPE A, TYPE 8 GRATE

LOCATION	EACH
A-8, 13.4 LT STA. 112+50	1
TOTAL	1

60605000
COMBINATION CONCRETE CURB AND GUTTER

LOCATION	FOOT
RT STA. 99+46 TO STA. 99+88	57.8
LT STA. 99+81 TO STA. 99+81	43.3
LT STA. 100+102 TO STA. 107+45	759.1
RT STA. 100+110 TO STA. 107+45	747.8
LT STA. 108+110 TO STA. 111+65	379.9
RT STA. 108+110 TO STA. 112+33	42.3
LT STA. 111+94 TO STA. 112+53	62.8
TOTAL	2473

78001180
PAINT PAVEMENT MARKING - LINE 24"

LOCATION	FOOT
STOP BARS	
@ NORTHVIEW - WEST	11
@ NORTHVIEW - EAST	10
@ WAYNE	2
TOTAL	33

56400710
FIRE HYDRANT AND VALVE (SPECIAL)

LOCATION	EACH
RT STA. 108+30.6	1
TOTAL	1

60240220
INLETS, TYPE B, TYPE 3 FRAME AND GRATE

LOCATION	EACH
B-3, 13.7 LT STA. 106+05	1
B-3, 13.7 RT STA. 106+16	1
B-3, 13.7 LT STA. 106+18	1
B-3, 13.7 RT STA. 108+20	1
B-3, 13.7 LT STA. 108+20	1
B-3, 13.7 RT STA. 111+80	1
B-3, 14.0 RT STA. 112+52	1
TOTAL	7

66502300
WOVEN WIRE FENCE REMOVAL

LOCATION	FOOT
LT STA. 105+22 TO STA. 107+22	200
LT STA. 105+25	25
LT STA. 108+04 TO STA. 108+17	13
LT STA. 108+62 TO STA. 108+65	66
TOTAL	304

X2010400
STUMP REMOVAL ONLY

LOCATION	UNIT
STA. 102+23, 27 LT	24
TOTAL	24

56400800
FIRE HYDRANT AND VALVE TO BE MOVED

LOCATION	EACH
STA. 99+51.5	1
TOTAL	1

60255500
MANHOLES TO BE ADJUSTED

LOCATION	EACH
STA. 98+98, 16.0 RT	1
STA. 108+33, 11.5 LT	1
STA. 109+18, 19.5 LT	1
STA. 109+46, 33.5 LT	1
TOTAL	4

66700205
PERMANENT SURVEY MARKERS, TYPE I

LOCATION	EACH
STA. 99+89 25.31' E SE CORNER, SW 1/4 SEC 27	1
STA. 113+21.02' S.E. NW CORNER, SW 1/4 OF SE 1/4 SEC 27	1
TOTAL	2

XX005742
DETECTABLE WARNING TILES

LOCATION	SQ. FT.
LT STA. 99+73 TO STA. 99+81	14
LT STA. 100+25 TO STA. 100+33	10
LT STA. 111+80 TO STA. 111+85	5
LT STA. 111+95 TO STA. 112+01	15
TOTAL	63

60218500
MANHOLES, TYPE A, 4' DIAMETER, TYPE 3 FRAME AND GRATE

LOCATION	EACH
A-3 (4'), 14.2 LT, STA. 102+70	1
A-3 (4'), 14.2 LT, STA. 103+82.5	1
A-3 (4'), 14.2 LT, STA. 108+01	1
A-3 (4'), 14.2 RT, STA. 109+02	1
A-3 (4'), 14.2 RT, STA. 110+18	1
A-3 (4'), 14.2 RT, STA. 111+22	1
TOTAL	6

SEE SPECIAL PROVISIONS FOR SANITARY VALVE VAULT

60500050
REMOVING CATCH BASINS

LOCATION	EACH
LT STA. 102+00.0	1
TOTAL	1

70300100
SHORT TERM PAVEMENT MARKING

LOCATION	SQ. YD.
STA. 99+17 TO STA. 113+00	180
TOTAL	180

X0322923
SEGMENTAL CONCRETE BLOCK WALL

LOCATION	SQ. FT.
LT STA. 103+56.75 TO STA. 104+00	391
LT STA. 104+10 TO STA. 104+36	351
TOTAL	732

60219000
MANHOLES, TYPE A, 4' DIAMETER, TYPE 8 GRATE

LOCATION	EACH
A-8 (4'), 33 LT, STA. 100+34.5	1
A-8 (4'), 35 LT, STA. 101+50	1
TOTAL	2

60600095
CLASS SI CONCRETE (OUTLET)

LOCATION	C.Y.
RT STA. 99+46	0.35
LT STA. 99+56	0.35
LT STA. 99+91	0.35
RT STA. 28+19	0.35
RT STA. 100+0	0.35
LT STA. 100+1	0.35
LT STA. 112+33	0.35
RT STA. 112+33	0.35
TOTAL	2.8

78001110
PAINT PAVEMENT MARKING - LINE 4"

LOCATION	FOOT
YELLOW SKIP DASH	
STA. 99+17 TO STA. 113+00	390
WHITE EDGE LINES	
STA. 99+48 TO STA. 113+00	325
TOTAL	715

60235700
INLETS, TYPE A, TYPE 3 FRAME AND GRATE

LOCATION	EACH
A-3, 13.4 LT, STA. 100+48	1
A-3, 13.4 RT, STA. 103+32.5	1
A-3, 13.4 RT, STA. 105+01	1
A-3, 13.4 RT, STA. 108+05	1
A-3, 13.4 RT, STA. 109+02	1
A-3, 13.4 RT, STA. 110+18	1
A-3, 13.4 LT, STA. 111+22	1
TOTAL	7

DSGN	K.J. Hoffmann					FRAUENHOFER Frauenhofer and Associates, P.C. Consulting Engineers 3002 Crossing Court Champaign, IL 61822 217-351-6268
DR	K.J. Hoffmann					
CHK	J.A. Frauenhoffer					
APVD	J.A. Frauenhoffer	NO.	DATE	REVISION	BY	

SCHEDULE OF QUANTITIES - SHEET 2 OF 3		SHEET 4
VILLAGE OF CATLIN SECTION 05-00154-00-BR VERMILION COUNTY		5022-SCH.dwg DATE JUN 2005 PROJ. NO. 5022

SECTION	SHEET	TOTAL SHEETS	PAGE NO.
FAS 507	Vermilion	54	5
*05-00154-00-BR			

SCHEDULE OF QUANTITIES - CONTINUED

Z0051500

REMOVING AND RESETTING STREET SIGNS	
LOCATION	EACH
NORTHVIEW INSR LOCATION	1
NAYRE ISAKE LOCATION	1
TOTAL	2

Z0056700

SANITARY SEWER 4" FORCE MAIN	
LOCATION	FOOT
STA. 102+75 TO STA. 109+53	562
TOTAL	562

6" TAPPING SLEEVE & VALVE

LOCATION	EACH
10' LT. STA. 99+51.5	1
10' R. STA. 109+23.7	1
TOTAL	2

SANITARY PUMP STATION ADJUSTMENTS

LOCATION	SUM
STA. 108+34, 21' L.	1
TOTAL	1

REMOVE AND REPLACE EXISTING STONE WALL

LOCATION	SQ FT
RT STA. 102+35 TO STA. 102+60	320
TOTAL	320

20200100, 20400800, & 2101505

EARTHWORK	
ITEMS	CU YD
EARTH EXCAVATION	1,862
TOPSOIL EXCAVATION	232
TOTAL CUT	2,094
EMBANKMENT	4,169
TOP SOIL PLACEMENT	179
TOTAL FILL	4,347
FURNISHED EXCAVATION = (FILL EXCAVATION / 1.25) + 1.25	3,341
TOPSOIL EXCAVATION AND PLACEMENT TOTAL	179
for excavation and placement balance using 6" depth	

NOTE: 25% SHRINKAGE FACTOR WAS USED

	56200300	Z0015000	56201400	20800150
	1" WATER SERVICE LINE	CURB STOPS	CORROSION STOPS	TRENCH BACKFILL
LOCATION	FOOT	EACH	EACH	CU YD
RT STA. 100+50	52	1	1	3.7
LT STA. 100+75	13	1	1	0.9
R. STA. 102+47	8	1	1	0
LT STA. 103+50	64	1	1	4.4
TOTAL	137	4	4	9

	42300200, 42300400		40200800	
LOCATION	PCC OFFSETS	PCC DRIVEWAY PAVEMENT	AGGREGATE OFFSETS	AGGREGATE SURFACE COURSE, TYPE
		6" THICK 8" THICK		TONS
P.E. - LT STA. 100+35	B.O.C TO F.O.S	24.7	B.O.S TO 39' LT	10.5
P.E. - LT STA. 102+57	B.O.C TO F.O.S	6.0	B.O.S TO 45' LT	9.3
P.E. - LT STA. 103+84	B.O.C TO F.O.S	6.0	B.O.S TO 55' LT	23.0
P.E. - RT STA. 105+20	B.O.C TO F.O.S	-	B.O.S TO 69' R	31.3
C.E. - LT STA. 105+73	B.O.C TO F.O.S	30.0	-	-
	8 B.O.C TO 30' LT	-	-	-
P.E. - RT STA. 109+51	B.O.C TO 24.5' R	33.0	24.5' RT TO 34' LT	9.4
P.E. - STA. 110+43	B.O.C TO F.O.S	4.0	B.O.S TO 29' LT	3.3
P.E. - R STA. 111+42	B.O.S TO 24.5' R	8.0	24.5' RT TO 31' L	3.6
P.E. - R STA. 112+13	B.O.C TO 24.5' R	27.3	24.5' RT TO 31' LT	6.4
TEMP. DRIVES	-	-	VARIOUS	53.0
		TOTAL	TOTAL	TOTAL
		109.0	30.0	250.0

DSGN	K.J. Hoffmann					<p>FRAUENHOPFER</p> <p>Frauenhoffer and Associates, P.C. Consulting Engineers 3002 Crossing Court Champaign, IL 61822 217-351-6268</p>	<p>SCHEDULE OF QUANTITIES - SHEET 3 OF 3</p> <p>VILLAGE OF CATLIN SECTION 05-00154-00-BR VERMILION COUNTY</p>	SHEET	5
DR	K.J. Hoffmann							DWG	5022-SCH.dwg
CHK	J.A. Frauenhoffer							DATE	JUN 2006
APVD	J.A. Frauenhoffer	NO.	DATE	REVISION	BY			APVD	NO.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	6
STA. TO STA.		F.H.W.A. REG. ILLINOIS PROJECT		

GENERAL NOTES

ALL ELEVATIONS SHOWN ARE REFERRED TO THE U.S.G.S. DATUM.

WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM STANDARD SPECIFICATIONS IS USED, IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED JANUARY 1, 2007.

ANY REFERENCE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN ON THE SCHEDULE OF STANDARD DRAWINGS ON THE COVER SHEET.

ALL STREET RETURNS SHALL HAVE RADII MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON THE PLANS.

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

CALL J.U.L.I.E. 1-800-892-0123 FOR UNDERGROUND UTILITY LOCATION MARKING PRIOR TO START OF CONSTRUCTION.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES AT THE TIME OF CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THOSE ORGANIZATIONS WHILE THEY PERFORM THEIR WORK.

DURING CONSTRUCTION THE CONTRACTOR MAY ENCOUNTER VARIOUS TYPES OF UNDERGROUND UTILITIES THAT MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL COOPERATE WITH THE ENGINEER AND THE OWNER OF THE UTILITY WHILE THE UTILITY COMPANY ADJUST THEIR FACILITIES IF NECESSARY. IF IT IS DETERMINED THAT THE UTILITY HAS BEEN ABANDONED, THE CONTRACTOR WILL BE DIRECTED TO REMOVE THE UTILITY LINES THAT CONFLICT WITH HIS WORK AND CAP OR PLUG THE LINES AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED AS INCIDENTAL.

CONTRACTOR SHALL CAREFULLY PROTECT ANY TREES OR SHRUBS NOT INCLUDED IN THE CONTRACT. FOR REMOVAL, SNOW FENCE SHALL BE ERECTED TWO FEET FROM TREES AND SHRUBS TO REMAIN, THAT ARE IMMEDIATELY ADJACENT TO THE WORK, FOR PROTECTION DURING CLEARING AND CONSTRUCTION OPERATIONS. COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

SHRUBS, BUSHES, AND STUMPS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. COST OF REMOVAL OF SHRUBS, BUSHES, OR STUMPS SHALL BE INCLUDED IN THE ITEM EARTH EXCAVATION WITH NO ADDITIONAL COMPENSATION ALLOWED.

THE EXCAVATION FOR THIS PROJECT IS CLASSIFIED AS EARTH EXCAVATION AND TOPSOIL EXCAVATION IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND AS PROVIDED IN THE CONTRACT SPECIFICATIONS. THE EARTH EXCAVATION SHALL INCLUDE THE REMOVAL OF THE EARTH AND UNCLASSIFIED MATERIALS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION.

GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES AND OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THESE ITEMS. IT IS THE INTENT THAT ITEMS THAT DO NOT NEED TO BE DISTURBED BY THE CONSTRUCTION SHALL BE PRESERVED. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

ALL DEBRIS AND EXCESS MATERIAL (BROKEN CONCRETE, PIPES, WASTE EXCAVATION, ETC.) SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

SEEDING SHALL BE DONE AT LOCATIONS SHOWN ON THE PLANS WHERE THE EXISTING EARTH HAS BEEN DISTURBED, AND AT LOCATIONS DIRECTED BY THE ENGINEER. ANY EXISTING AREAS OUTSIDE THE LIMITS OF CONSTRUCTION DAMAGED BY THE CONTRACTOR SHALL BE SEEDD AT HIS OWN EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

SEEDING DATES FOR ALL CLASSES OF SEEDING WILL BE AS LISTED BELOW:

CLASS OF SEEDING	BEGINNING DATES	TERMINATION DATES
1, 1A, 1B, 2, 2A, 3	(IN SPRING) APRIL 1	MAY 15
1, 1A, 1B, 2, 2A, 3	(IN FALL) AUGUST 15	OCTOBER 15

A N.P.D.E.S. PERMIT WILL BE REQUIRED FOR THIS PROJECT FOR EROSION AND SEDIMENT CONTROL. TO SATISFY THIS REQUIREMENT THE CONTRACTOR WILL BE REQUIRED TO PROVIDE INLET AND PIPE PROTECTION AS SHOWN ON STANDARD 280001 AT LOCATIONS AS DIRECTED BY THE ENGINEER. AN ESTIMATED QUANTITY FOR INLET AND PIPE PROTECTION HAS BEEN INCLUDED IN THE PROJECT AND MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

EXISTING CONCRETE AND HOT MIX ASPHALT PAVEMENT IN WHICH THE TOP SURFACE IS TO BE BUTT JOINED TO THE PROPOSED WORK SHALL BE SO JOINED THROUGH FULL DEPTH SAW CUT JUNCTIONS. THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

BEFORE ORDERING STORM SEWERS, INLETS AND MANHOLES, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.

AT LOCATIONS INDICATED ON THE PLANS, PROPOSED STORM SEWERS ARE TO BE CONNECTED INTO EXISTING MANHOLES OR EXISTING STORM SEWERS. THESE CONNECTIONS SHALL BE MADE IN A WORKMANLIKE MANNER AND MASONRY CONSTRUCTED AROUND THEM SO AS TO PREVENT LEAKAGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCIDENTAL TO STORM SEWERS OF THE SIZE AND TYPE SPECIFIED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. IF CONCRETE COLLARS ARE CALLED FOR AT SOME LOCATIONS, THEY WILL BE CONSTRUCTED AND PAID FOR AS SHOWN ON THE DETAILS.

ALL SALVAGEABLE FRAMES AND GRATES WHICH ARE NOT INCORPORATED IN THE WORK SHALL BECOME THE PROPERTY OF THE VILLAGE. THE CONTRACTORS BID PRICE SHOULD REFLECT THE SALVAGE VALUE OF THE ITEMS.

WHERE THE PROPOSED COMBINATION CONCRETE CURB AND GUTTER JOINS THE EXISTING CURB AND GUTTER, THERE MAY BE A TRANSITION IN THE CURB AND GUTTER. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE COMBINATION CONCRETE CURB AND GUTTER.

CONCRETE CURB AND GUTTER SHALL BE SAWED AT A MINIMUM OF 15 FOOT SPACING. ALL SAWED JOINTS SHALL BE FILLED WITH NP 1 SEALER.

THE CONTRACTOR SHALL NOT BEGIN ANY CONSTRUCTION OPERATIONS UNTIL ALL SURVEY MONUMENTS HAVE BEEN SUFFICIENTLY WITNESSED OR REFERENCED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PRESERVE AND NOT DISTURB THE EXISTING IRON PIPE MONUMENTS OR RIGHT-OF-WAY MARKERS. ANY IRON PIPE MONUMENTS OR RIGHT-OF-WAY MARKERS SO DISTURBED BY THE CONTRACTOR SHALL BE RESET BY A REGISTERED ILLINOIS LAND SURVEYOR. THE COST FOR RESETTING THESE MONUMENTS SHALL BE PAID FOR BY THE CONTRACTOR.

ALL MARKERS USED TO DEFINE THE SURVEY CENTERLINE CONTROL POINTS (P.C.'S, P.L.'S, P.T.'S, P.O.T.'S) AND LAND SURVEY MONUMENTS (LAND SECTION OR SUB-SECTION CORNERS) THAT ARE WITHIN THE PROJECT LIMITS SHALL BE PRESERVED IN ACCORDANCE WITH THE PLANS. SPECIAL DETAILS, AND AS DIRECTED BY THE ENGINEER.

AN ILLINOIS PROFESSIONAL LAND SURVEY IS REQUIRED IN REGARDS TO LAND SURVEY MONUMENTS TO BE PRESERVED.

UTILITY INFORMATION

Ameren IP
Mr. John Hudson
510 South Washington Street
Tuscola, Illinois 61953

Ameren CILCO
Mr. Bill Fleming
155 W. Central
Tuscola, Illinois 61953

A. T. & T.
Ms. John Cushwa
816 East Voorhees Street
Danville, Illinois 61832

Charter Communications
Frank Lemezes
1209 North State Street
Westville, Illinois 61883

NOTE: SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES.

BITUMINOUS MIXTURE REQUIREMENTS:
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

LOCATION	WEBSTER STREET	WEBSTER STREET	NORTHVIEW & WAYNE
MIXTURE USE(S):	SURFACE	BINDER	TRANSITIONAL PAVEMENTS
AC/PG:	PG 64-22	PG 64-22	PG 64-22
RAP %:	15	25	15
DESIGN AIR VOIDS:	4.0% @ N _{DES} - 50	4.0% @ N _{DES} - 50	4.0% @ N _{DES} - 50
MIXTURE COMPOSITION (GRADATION MIXTURE):	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE:	MIX C	N/A	MIX C

DESIGN DATA

WEBSTER STREET

DESIGN TRAFFIC	
2006 ADT	= 1,000
2016 ADT	= 1,000
2026 ADT	= 1,000
P.V.	= 88.0% = 880
S.U.	= 7.0% = 70
M.U.	= 5.0% = 50
CLASS III STREET (FLEXIBLE)	
COLLECTOR	
DESIGN PERIOD = 20 YEARS	
T.F. = 0.22	
IBR-2 S.S.R. = FAIR	
PROPOSED PAVEMENT	
HOT MIX ASPHALT	
PAVEMENT - 5 INCH	
8" GRANULAR SUB-BASE	

PLAN	DATE	BY
SURVEYED		
NOTE BOOK		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		

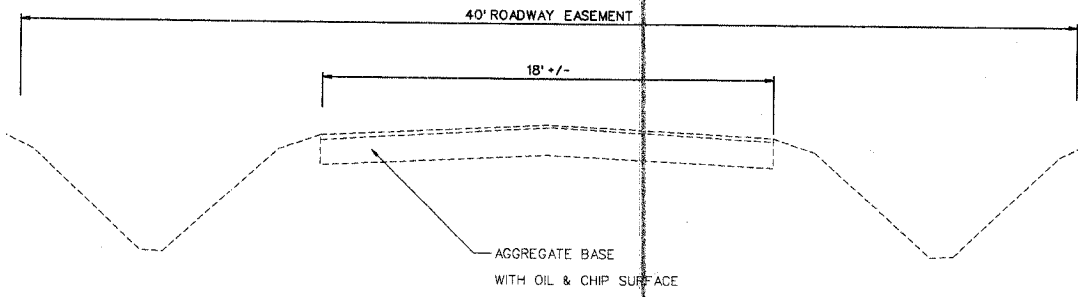
PROFILE	DATE	BY
SURVEYED		
NOTE BOOK		
GRADES CHECKED		
B.M.S. NOTED		
STRUCTURE		
NOTATIONS CHECKED		



Ellen B. Hedrick
ELLEN B. HEDRICK
ILLINOIS REGISTERED PROFESSIONAL
ENGINEER NUMBER 062-049131
LICENSE EXPIRES 11-30-07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	7
STA.	TO STA.			
F.H.W.A. REC.	ILLINOIS	PROJECT		

EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTIONS

PLAN

SURVEYED BY _____ DATE _____

PLOTTED BY _____

NOTE BOOK NO. _____

GRADES CHECKED BY _____

STRUCTURE NOTATIONS CHKD BY _____

PROFILE

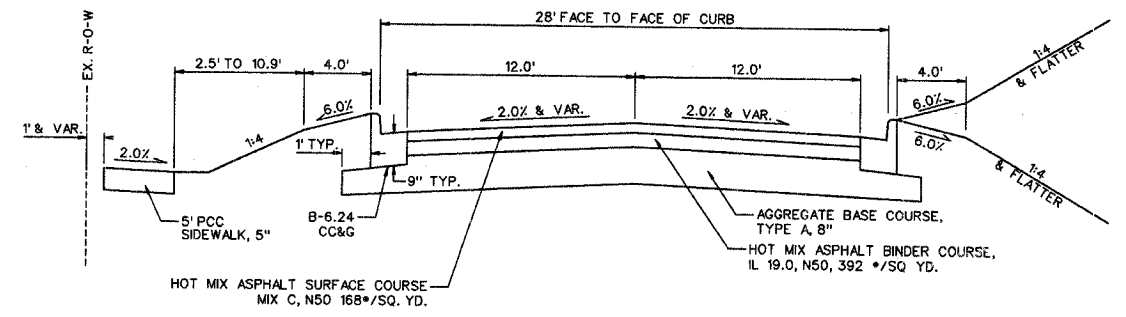
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PLOTTED BY _____

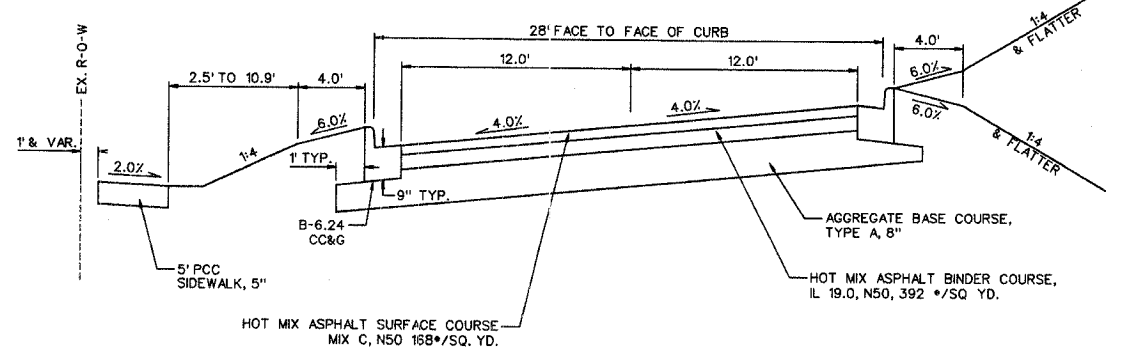
NOTE BOOK NO. _____

GRADES CHECKED BY _____

STRUCTURE NOTATIONS CHKD BY _____



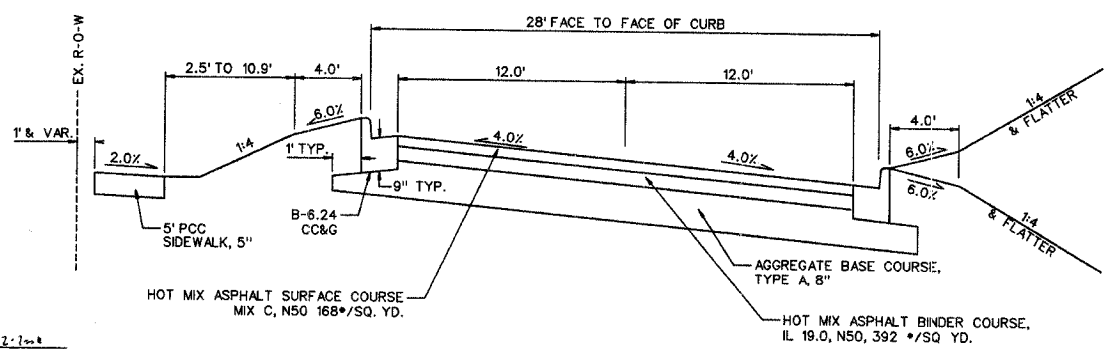
TYPICAL SECTION
 99+38 ~ 100+13.81
 100+95.35 ~ 102+45.35
 (S.E. TRANSITIONS
 ON NEXT SHEET)



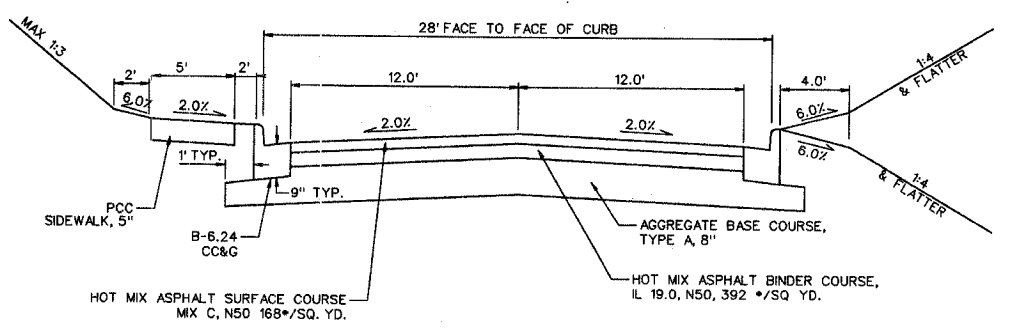
TYPICAL SECTION
 100+13.81 ~ 100+95.35

SEE NEXT SHEET
 FOR SUPERELEVATION
 TRANSITIONS

TYPICAL SECTION
 107+45 ~ 108+11
 SEE BRIDGE PLAN SHEETS



TYPICAL SECTION
 102+45.35 ~ 103+32.57



TYPICAL SECTION
 103+32.57 ~ 107+45
 &
 108+11 ~ 113+00

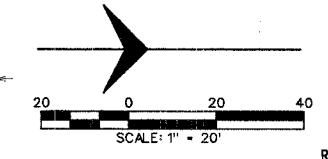
NOTE: EXISTING PAVEMENT IS 6" OIL
 AND CHIP AND BITUMINOUS
 ASPHALT ON AN AGGREGATE BASE.



ELLEN B. HEDRICK
 REGISTERED PROFESSIONAL
 ENGINEER
 OF ILLINOIS
 LICENSE NUMBER 062-049131
 LICENSE EXPIRES 11-30-07

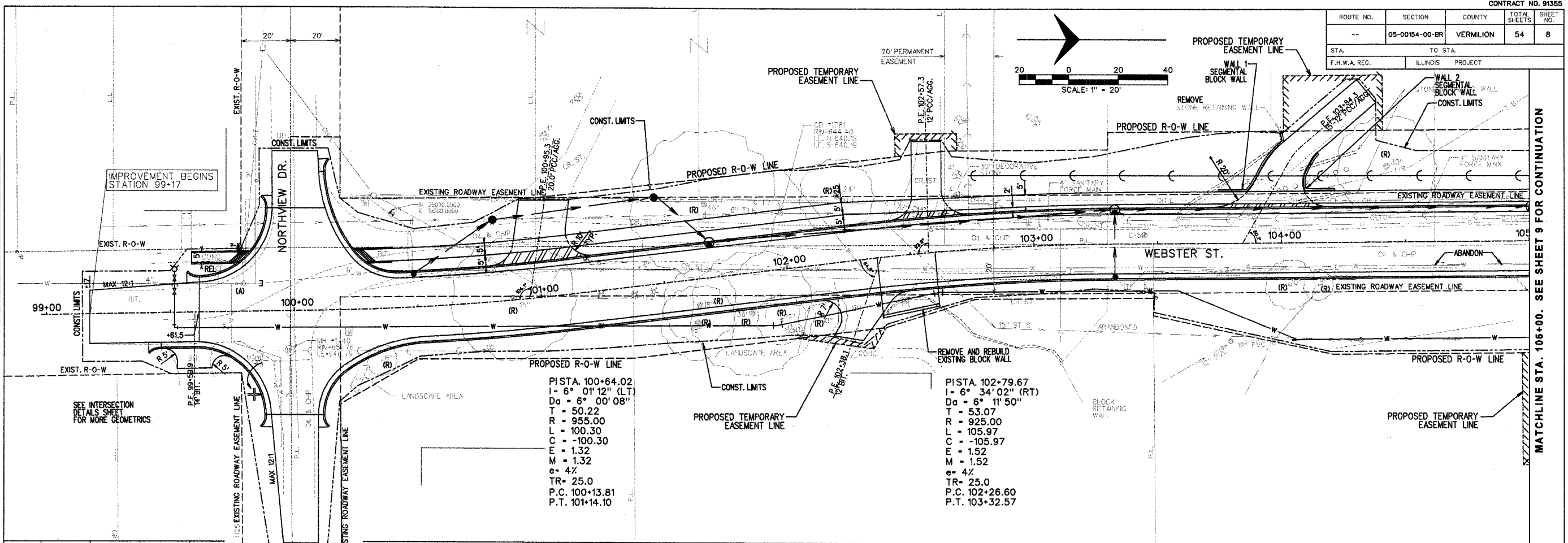
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	8
STA. TO STA.		ILLINOIS PROJECT		
F.H.W.A. REG.		PROJECT		



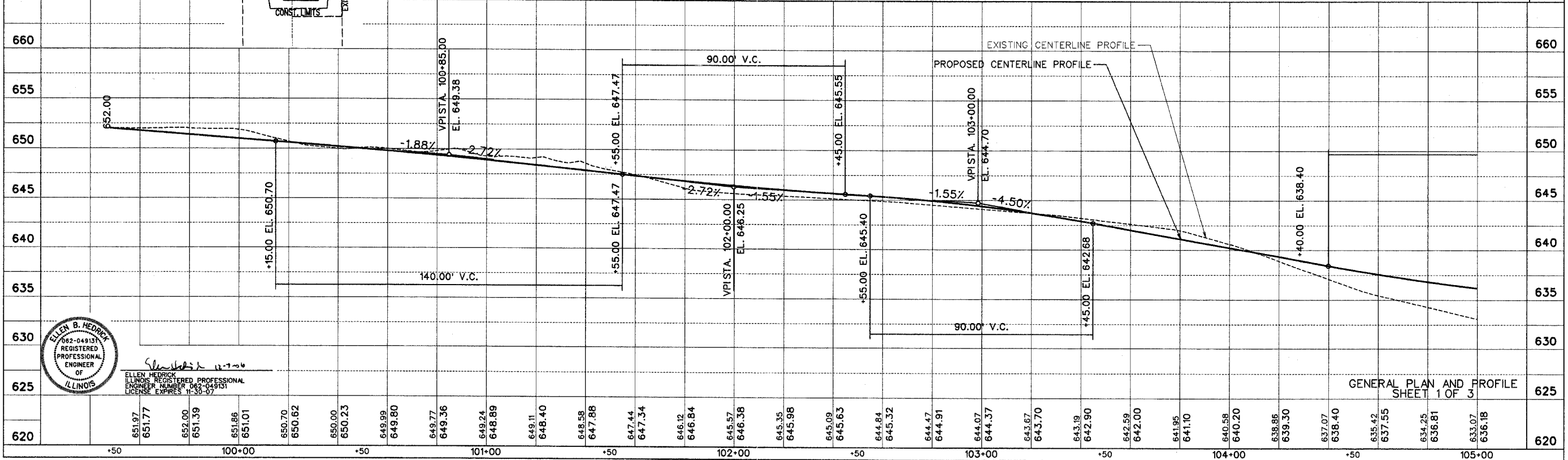
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 SURVEYED BY _____ DATE _____
 PLOTTED BY _____ CHECKED BY _____
 NOTE BOOK NO. _____
 RT. OF WAY CHECKED BY _____

PROFILE
 SURVEYED BY _____ DATE _____
 PLOTTED BY _____ CHECKED BY _____
 NOTE BOOK NO. _____
 B.M. NOTED _____
 STRUCTURE NOTATIONS CHKD. _____



PISTA. 100+64.02
 I = 6° 01' 12" (LT)
 D_a = 6° 00' 08"
 T = 50.22
 R = 955.00
 L = 100.30
 C = -100.30
 E = 1.32
 M = 1.32
 e = 4%
 TR = 25.0
 P.C. 100+13.81
 P.T. 101+14.10

PISTA. 102+79.67
 I = 6° 34' 02" (RT)
 D_a = 6° 11' 50"
 T = 53.07
 R = 925.00
 L = 105.97
 C = -105.97
 E = 1.52
 M = 1.52
 e = 4%
 TR = 25.0
 P.C. 102+26.60
 P.T. 103+32.57

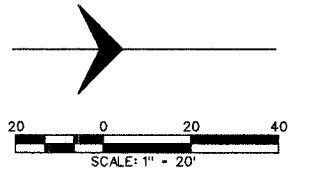


ELEN B. HEDRICK
 082-049131
 REGISTERED PROFESSIONAL ENGINEER
 OF ILLINOIS
 LICENSE EXPIRES 11-30-07

GENERAL PLAN AND PROFILE
 SHEET 1 OF 3

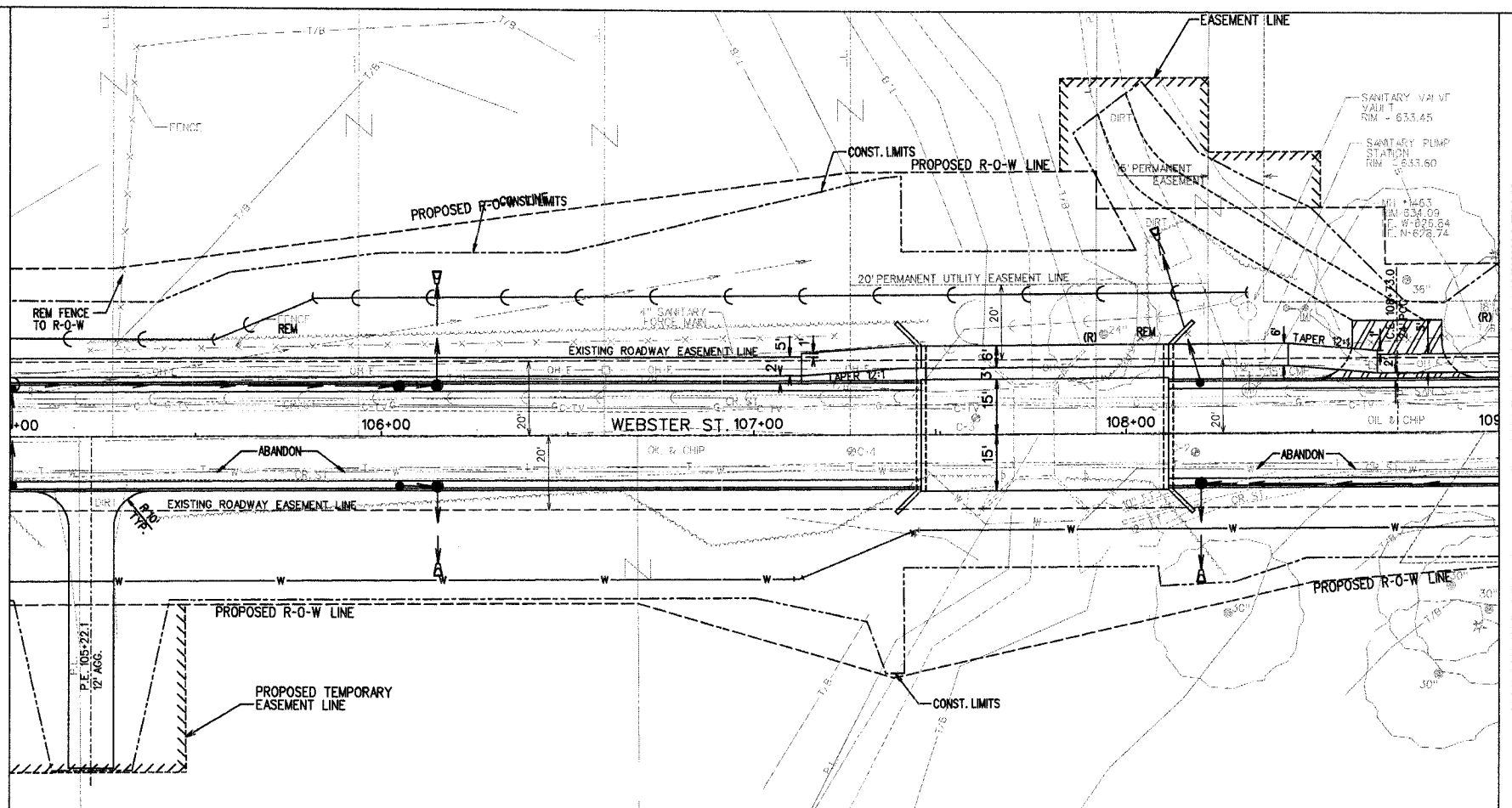
MATCHLINE STA. 105+00. SEE SHEET 9 FOR CONTINUATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	9
STA. TO STA.		F.H.W.A. REG. ILLINOIS PROJECT		



MATCHLINE STA. 105+00. SEE SHEET 8 FOR CONTINUATION

MATCHLINE STA. 109+00. SEE SHEET 10 FOR CONTINUATION

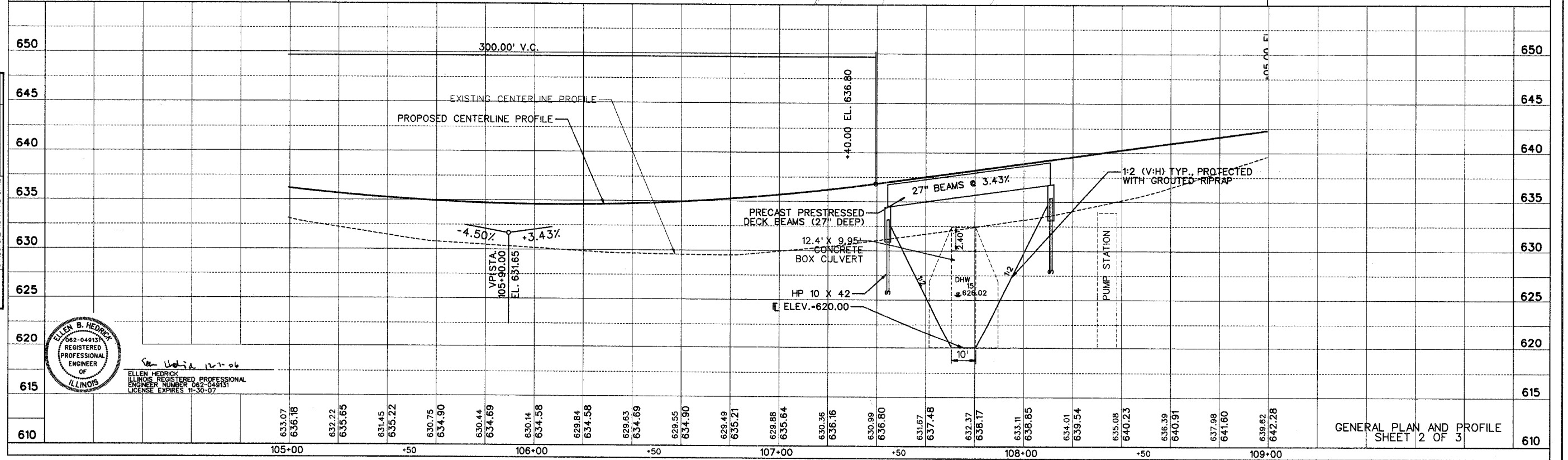


PLAN

DATE	BY
SURVEYED	
NOTE BOOK ALIGNED CHECKED	
RT. OF WAY CHECKED	
NO.	

PROFILE

DATE	BY
SURVEYED	
GRADES CHECKED	
B.M.s NOTED	
STRUCTURE NOTATIONS CHECKED	
NO.	

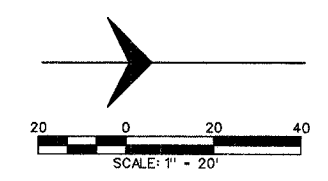


ELLEN B. HEDRICK
062-049131
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS
See Note 12-06
ELLEN HEDRICK
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NUMBER 062-049131
LICENSE EXPIRES 11-30-07

GENERAL PLAN AND PROFILE
SHEET 2 OF 3

Plan sheets\Plan 2.dgn 12/6/2006 1:02:09 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	10
STA.		TO STA.		
F.H.W.A. REG.		ILLINOIS PROJECT		



PLAN

DATE	BY
SURVEYED	
PLOTTED	
CHECKED	
BY	
DATE	

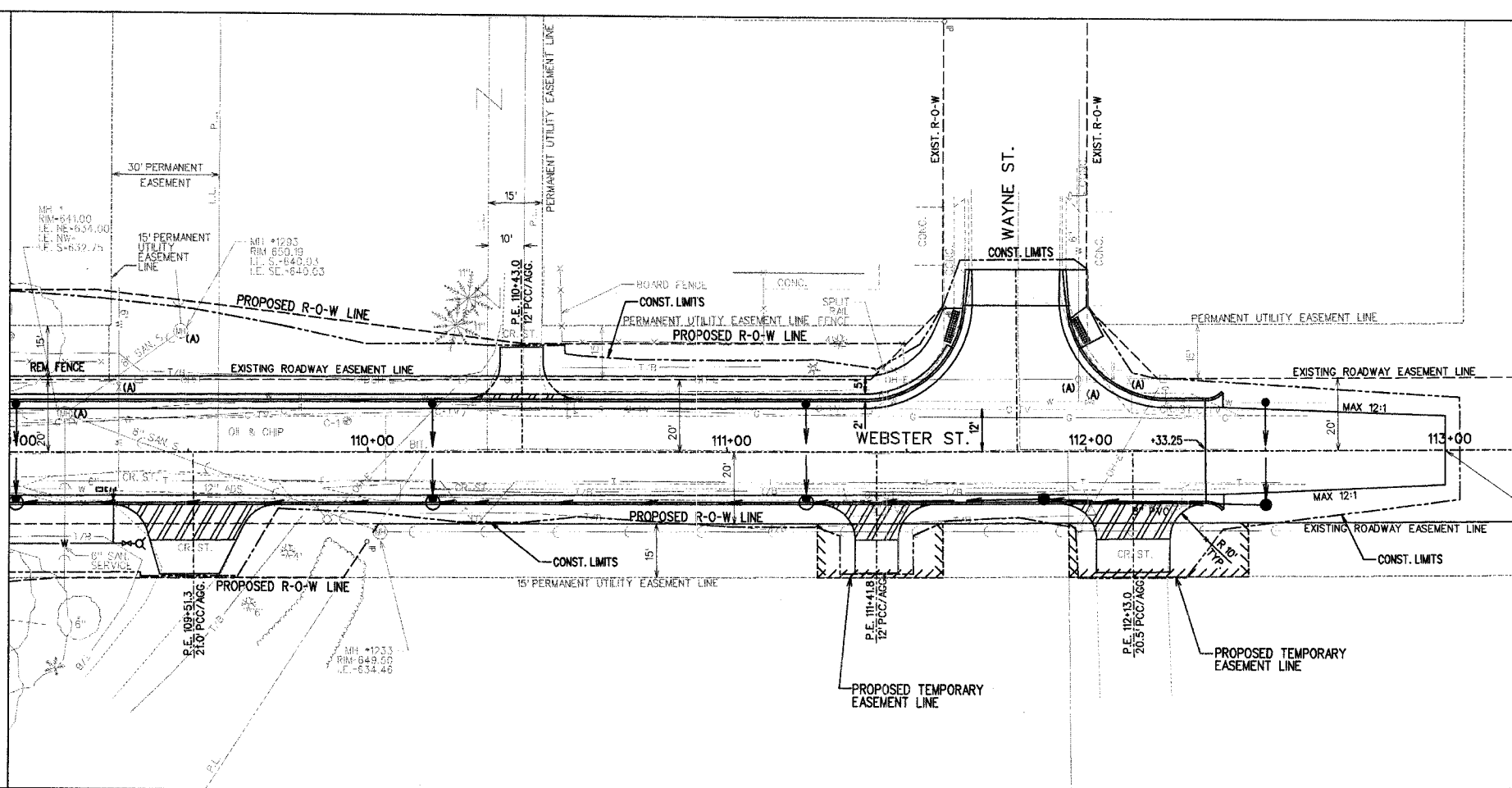
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 BY _____

PROFILE

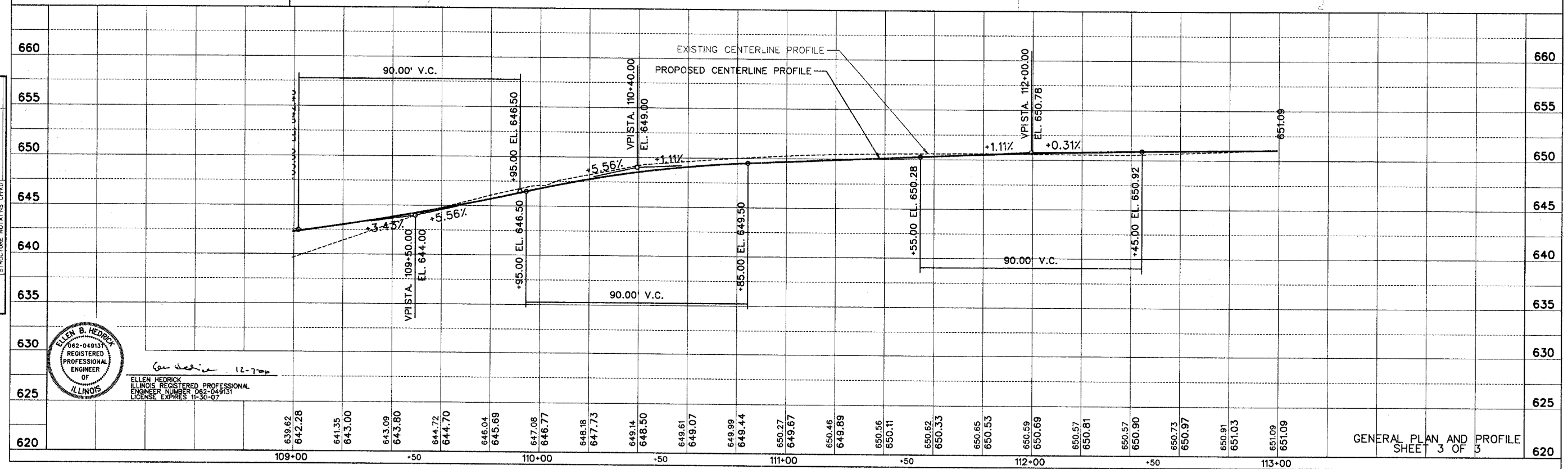
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SURVEYED	
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DATE	

NOTE BOOK NO. _____
 DATE CHECKED _____
 BY _____

MATCHLINE STA. 109+00. SEE SHEET 9 FOR CONTINUATION



END IMPROVEMENT STATION 113+00



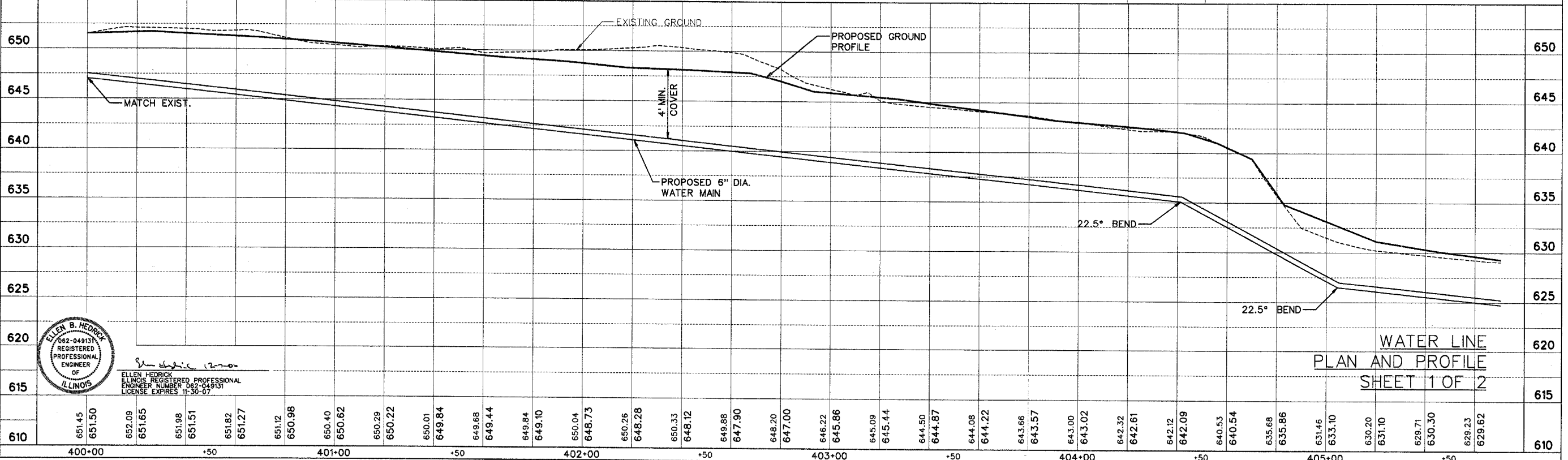
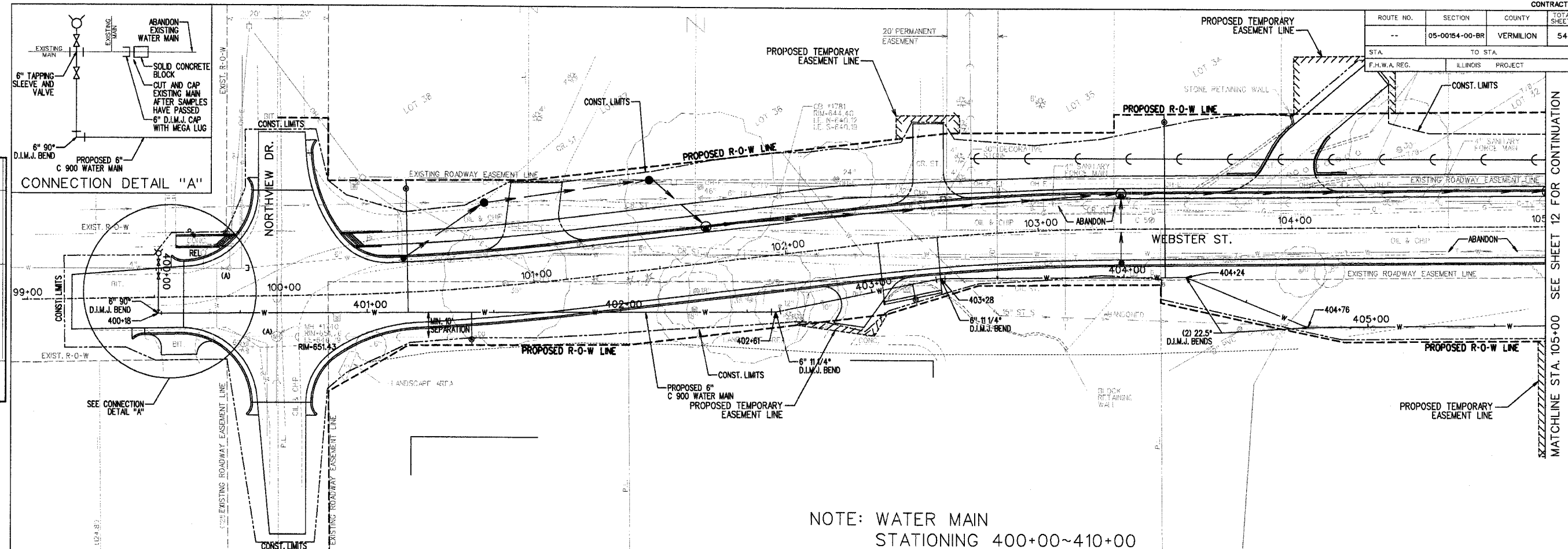
ELLEN B. HEDRICK
 062-04913
 REGISTERED PROFESSIONAL ENGINEER
 OF ILLINOIS
 LICENSE EXPIRES 11-30-04

GENERAL PLAN AND PROFILE SHEET 3 OF 3

\\Plan sheets\Plan 3.dgn 12/6/2006 1:02:02 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	11

STA. TO STA. F.H.W.A. REG. ILLINOIS PROJECT



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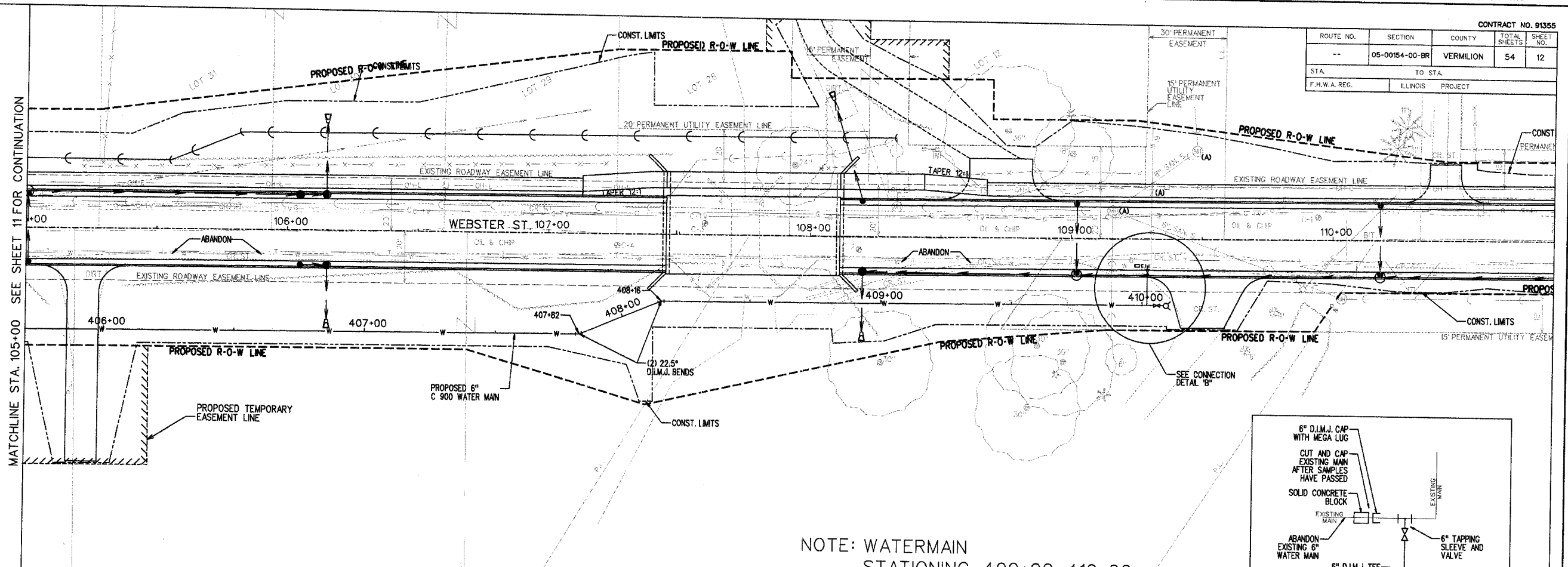
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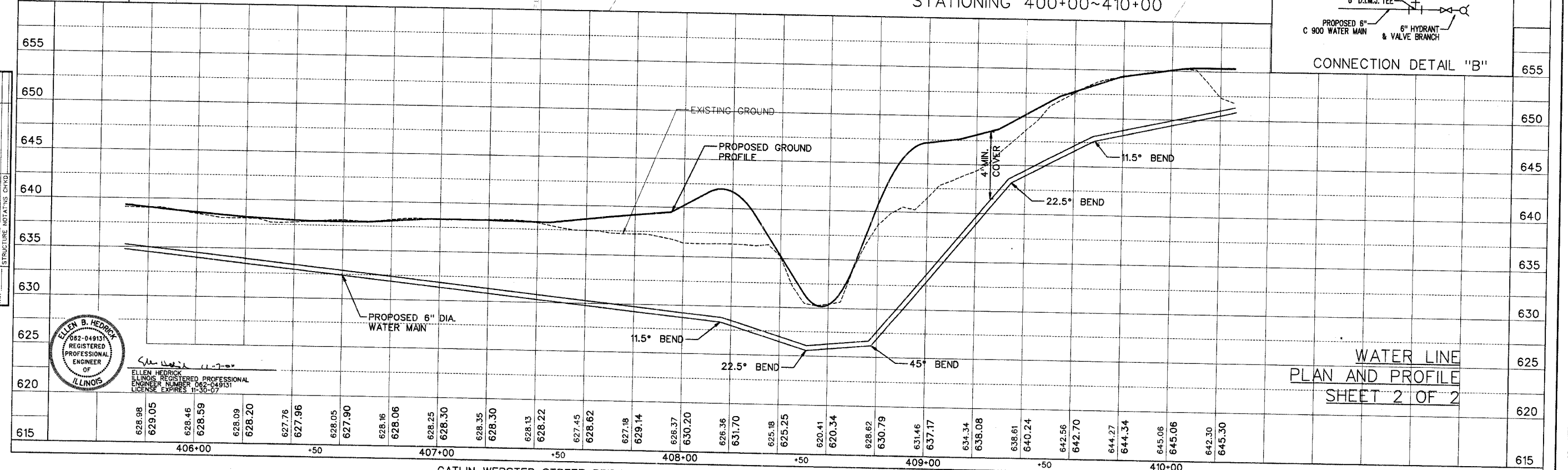
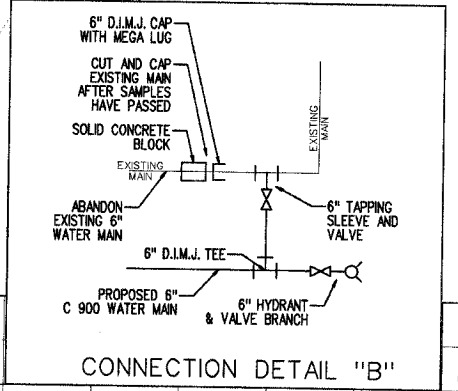
ELLEN B. HEDRICK
ILLINOIS REGISTERED PROFESSIONAL ENGINEER
NUMBER 062-049131
LICENSE EXPIRES 11-30-07

WATER LINE PLAN AND PROFILE SHEET 1 OF 2

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	12
STA.	TO STA.	F.M.W.A. REG. ILLINOIS PROJECT		



NOTE: WATERMAIN STATIONING 400+00~410+00



WATER LINE PLAN AND PROFILE SHEET 2 OF 2



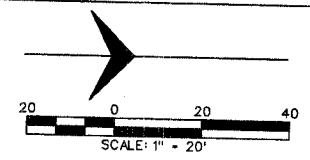
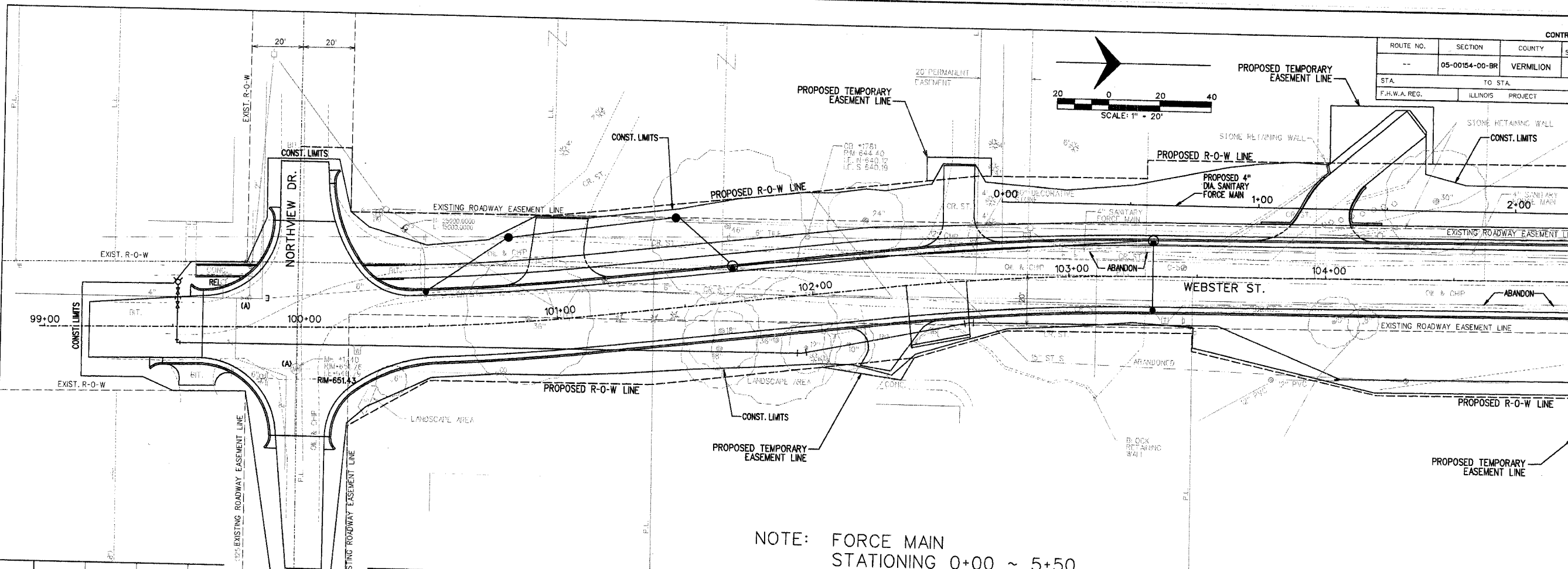
ELLEN B. HEDRICK
ILLINOIS REGISTERED PROFESSIONAL ENGINEER
ENGINEER NUMBER 082-049131
LICENSE EXPIRES 11-30-07

PLAN SURVEYED BY DATE
PLOTTED BY DATE
NOTE BOOK NO. RT. OF WAY CHECKED
NO. STRUCTURE NOTATION CHNO.

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

CONTRACT NO. 91355			
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
--	05-00154-00-BR	VERMILION	54
STA.	TO STA.	PROJECT	
F.H.W.A. REG.	ILLINOIS		

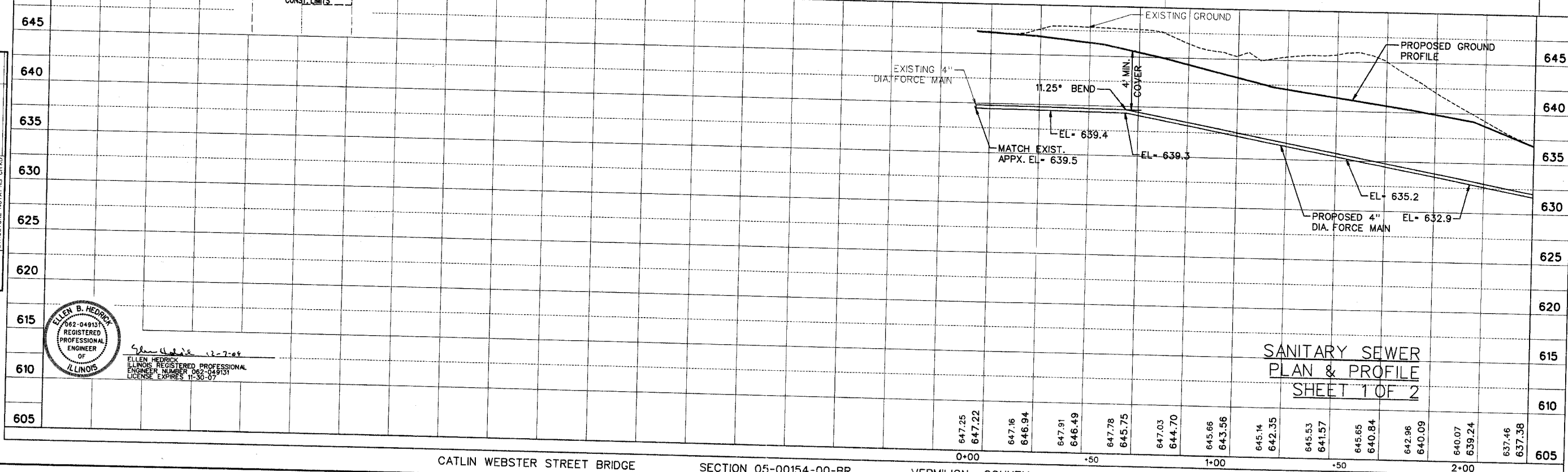
MATCHLINE STA. 105+00. SEE SHEET 14 FOR CONTINUATION



PLAN
 SURVEYED BY: _____ DATE: _____
 ALIGNED BY: _____ DATE: _____
 NOTE BOOK ALIGNED CHECKED: _____
 RT. OF WAY CHECKED: _____

PROFILE
 SURVEYED BY: _____ DATE: _____
 GRADES CHECKED: _____
 B.A.S. NOTED: _____
 STRUCTURE NOTATIONS OK'D: _____

NOTE: FORCE MAIN STATIONING 0+00 ~ 5+50

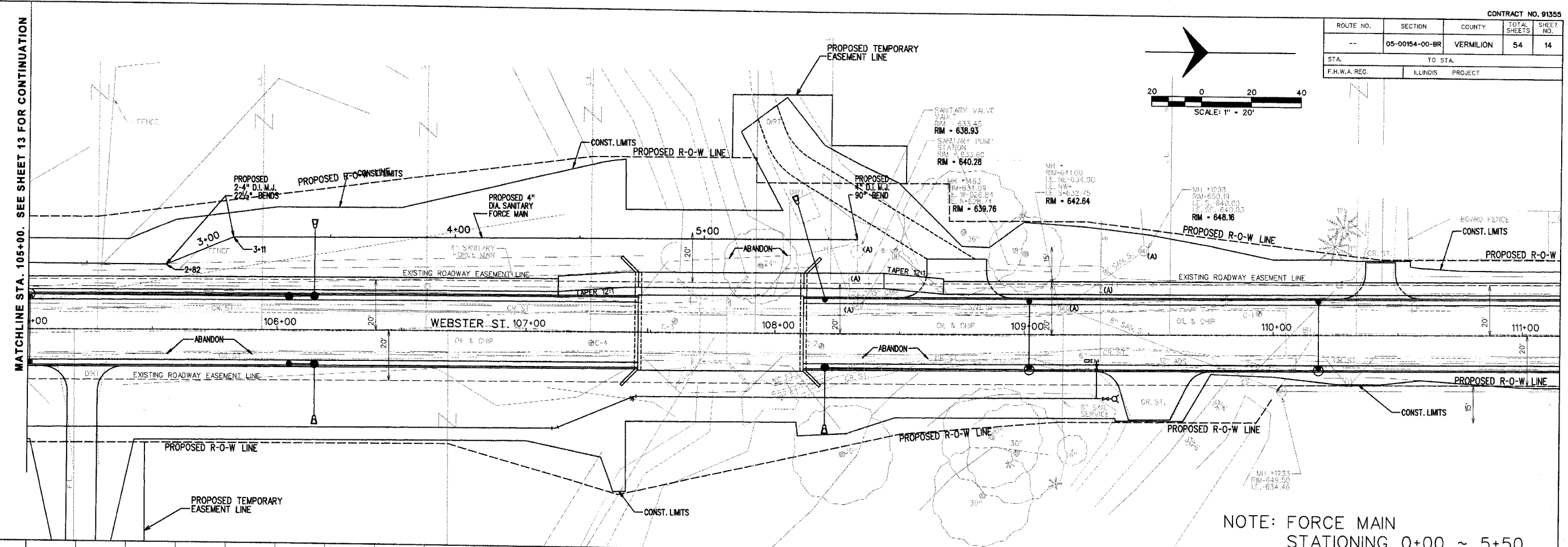
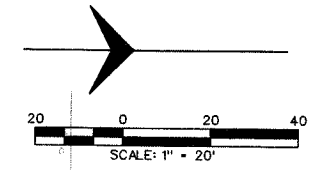


John H. Hulse 12-7-04
 ELLEN B. HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL
 ENGINEER NUMBER 062-049131
 LICENSE EXPIRES 11-30-07

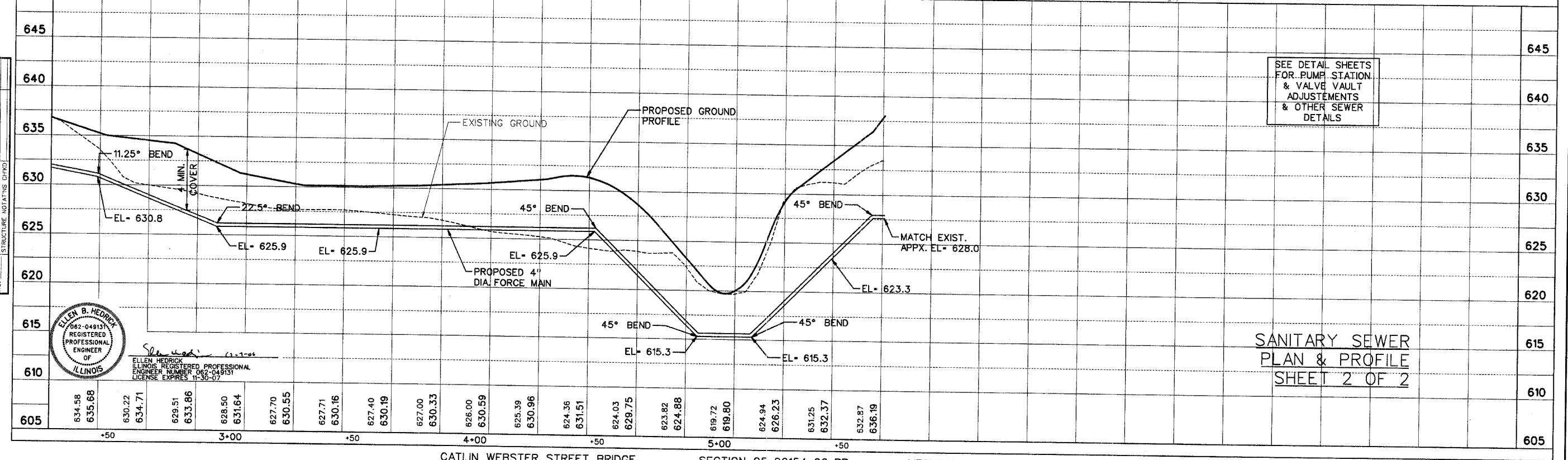
SANITARY SEWER
 PLAN & PROFILE
 SHEET 1 OF 2

CATLIN WEBSTER STREET BRIDGE SECTION 05-00154-00-BR VERMILION COUNTY 05057

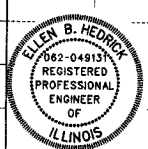
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	14
STA. TO STA.		ILLINOIS PROJECT		



NOTE: FORCE MAIN STATIONING 0+00 ~ 5+50



SANITARY SEWER
PLAN & PROFILE
SHEET 2 OF 2



ELLEN B. HEDRICK
REGISTERED PROFESSIONAL ENGINEER
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NUMBER 062-049131
LICENSE EXPIRES 11-30-07

PLAN

DATE	BY

SURVEYED
PLOTTED
NOTE BOOK ALIGNED CHECKED
RT. OF WAY CHECKED

PROFILE

DATE	BY

SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
STRUCTURE NOTATIONS CHECKED

V:\plan sheets\FM PLAN 2.dgn 12/5/2006 2:42:54 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	05-00154-00-BR	VERMILION	54	15
STA. TO STA.		ILLINOIS PROJECT		
F.H.W.A. REG.		ILLINOIS PROJECT		

PLAN

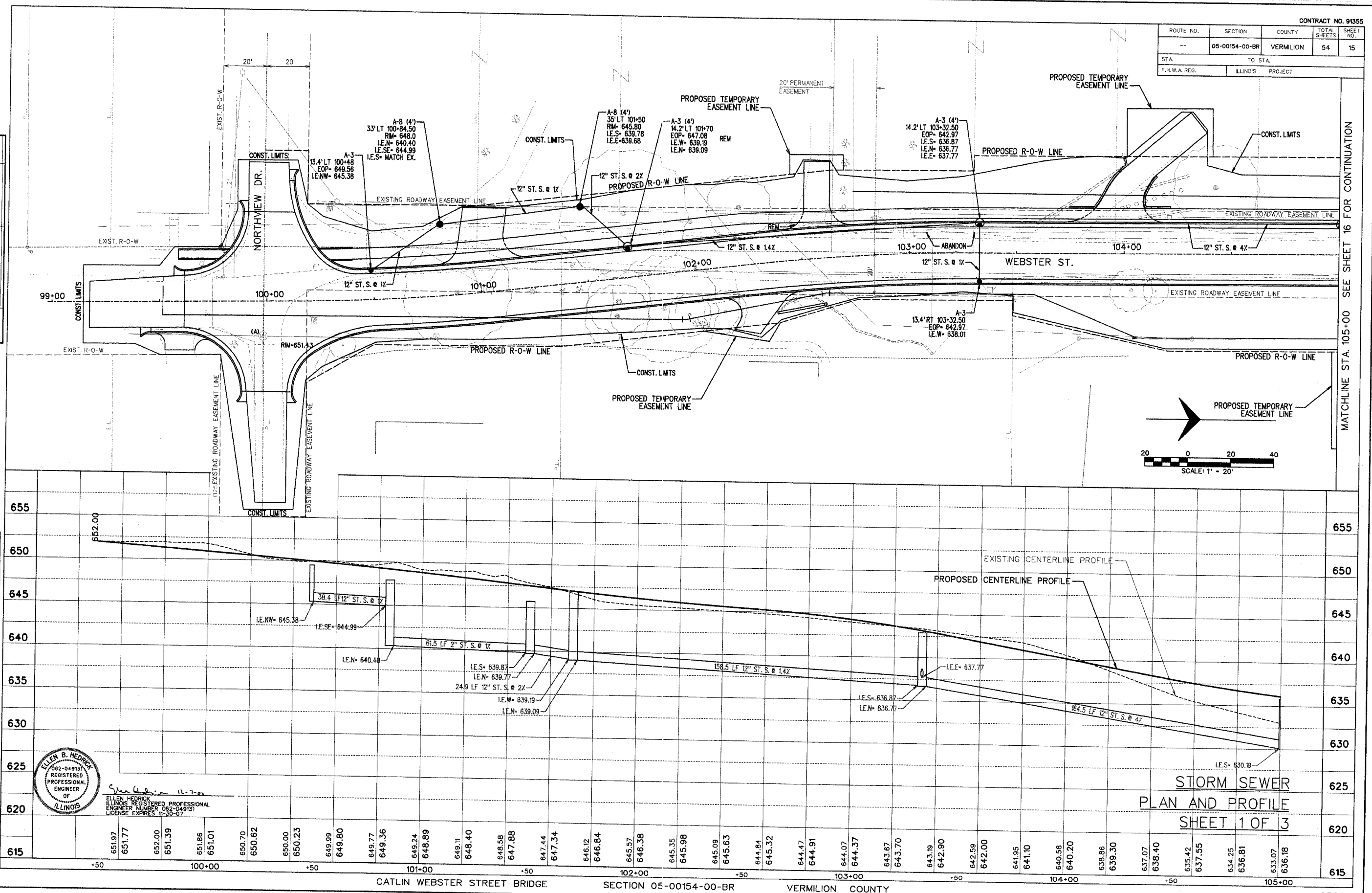
DATE	BY
SURVEYED	
PLOTTED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

NOTE: BOOK ALIGNMENT CHECKED
RT. OF WAY CHECKED

PROFILE

DATE	BY
SURVEYED	
PLOTTED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

NOTE: STRUCTURE NOTATIONS CHECKED



ELLEN B. HEDRICK
062-04913
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS

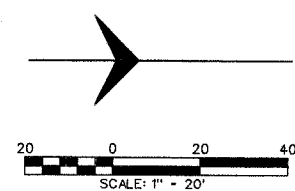
Ellen Hedrick 11-7-09
ELLEN HEDRICK
ILLINOIS REGISTERED PROFESSIONAL ENGINEER
ENGINEER NUMBER 062-04913
LICENSE EXPIRES 11-30-07

STORM SEWER
PLAN AND PROFILE
SHEET 1 OF 3

MATCHLINE STA. 105+00 SEE SHEET 16 FOR CONTINUATION

Storm Sewer Plan.dgn 12/6/2006 2:43:04 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	16
STA. TO STA.		ILLINOIS PROJECT		
F.H.W.A. REG.		PROJECT		



PLAN

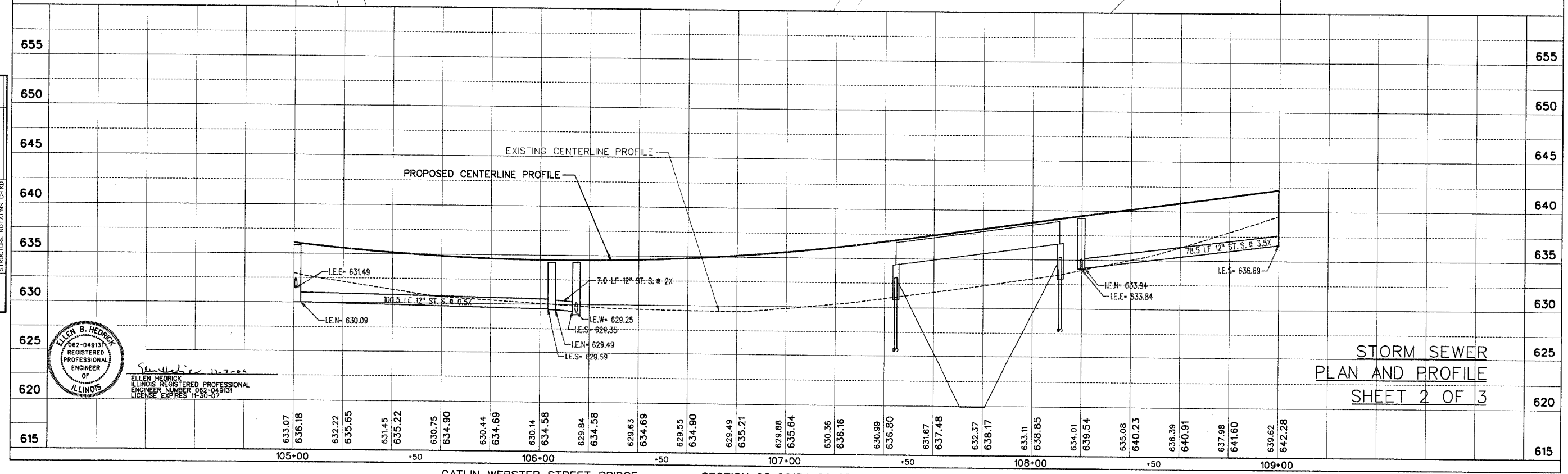
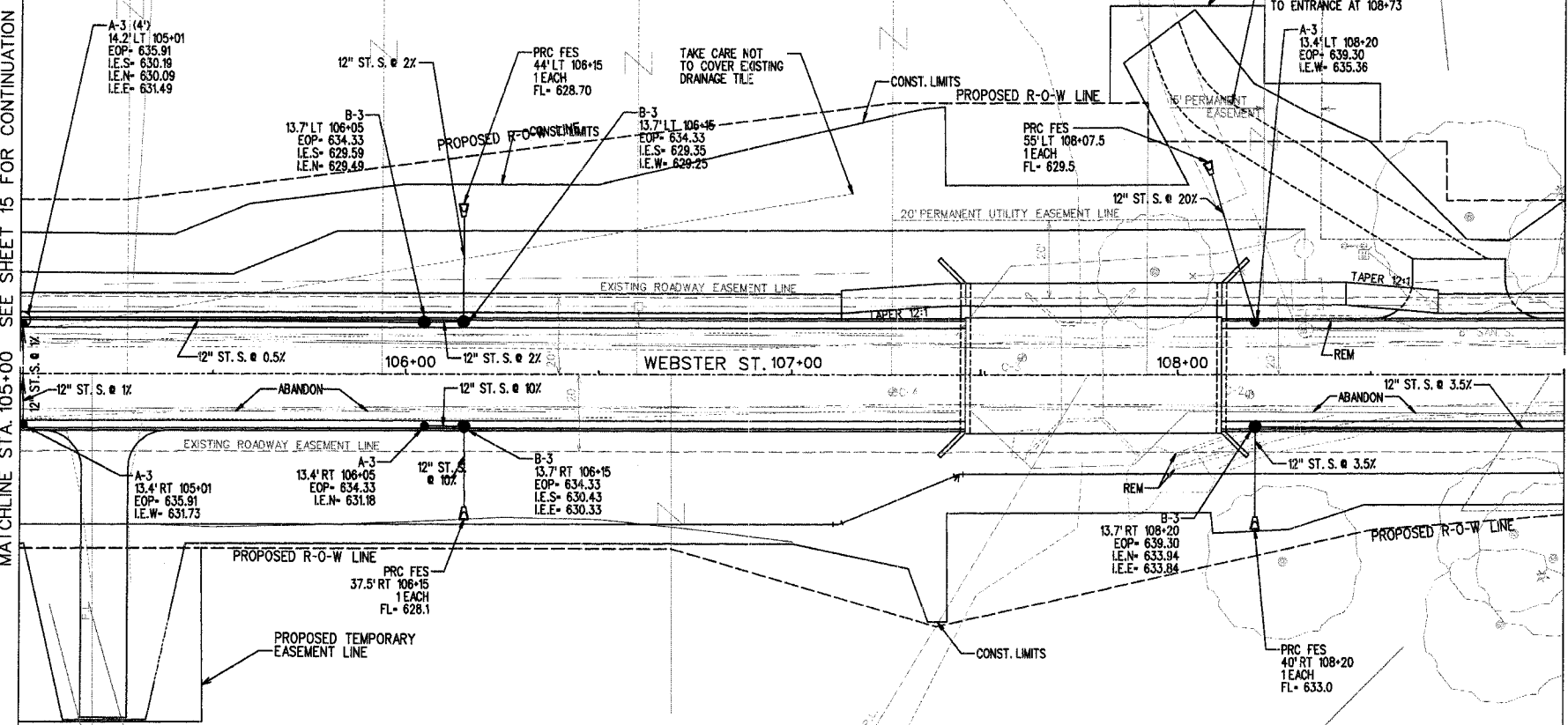
SURVEYED	BY	DATE
PLOTTED		
ALIGNED		
CHECKED		
NO. OF WAY CHECKED		
NO.		

PROFILE

SURVEYED	BY	DATE
PROCESSED		
NOTED		
STRUCTURE		
NOTATIONS		
CHKD		

MATCHLINE STA. 105+00 SEE SHEET 15 FOR CONTINUATION

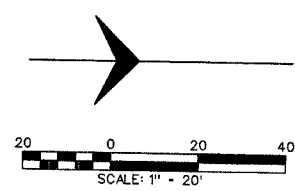
MATCHLINE STA. 109+00 SEE SHEET 17 FOR CONTINUATION



ELLEN B. HEDRICK
 062-04913
 REGISTERED PROFESSIONAL ENGINEER
 OF ILLINOIS
 ELLEN HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL ENGINEER NUMBER 062-04913
 LICENSE EXPIRES 11-30-07

STORM SEWER
 PLAN AND PROFILE
 SHEET 2 OF 3

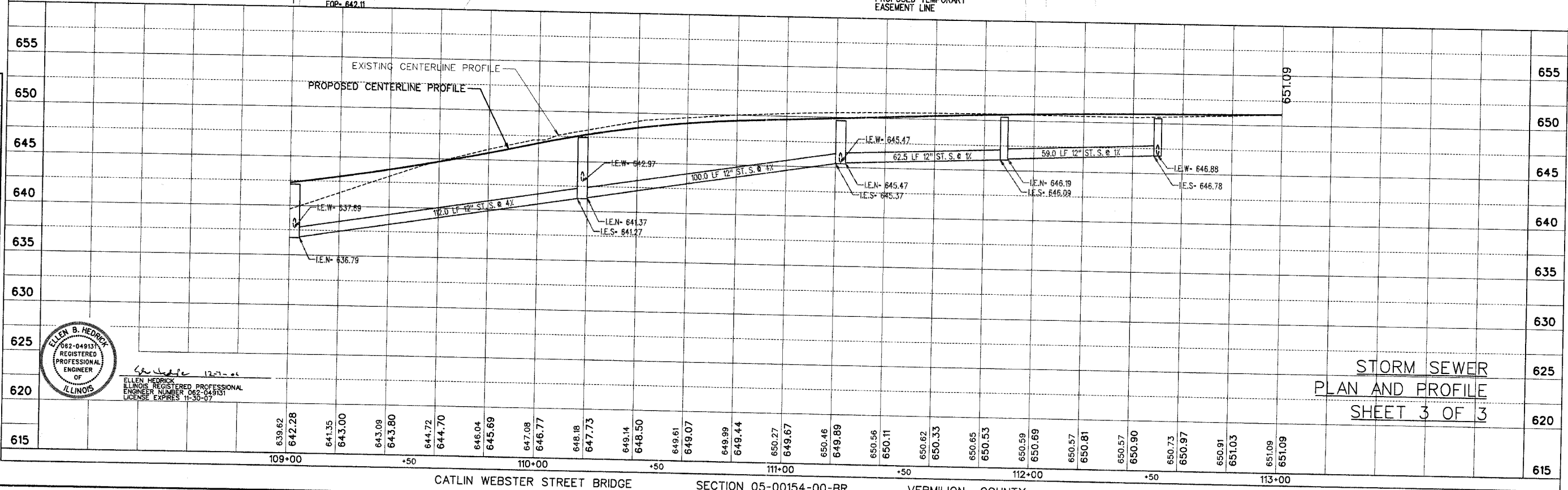
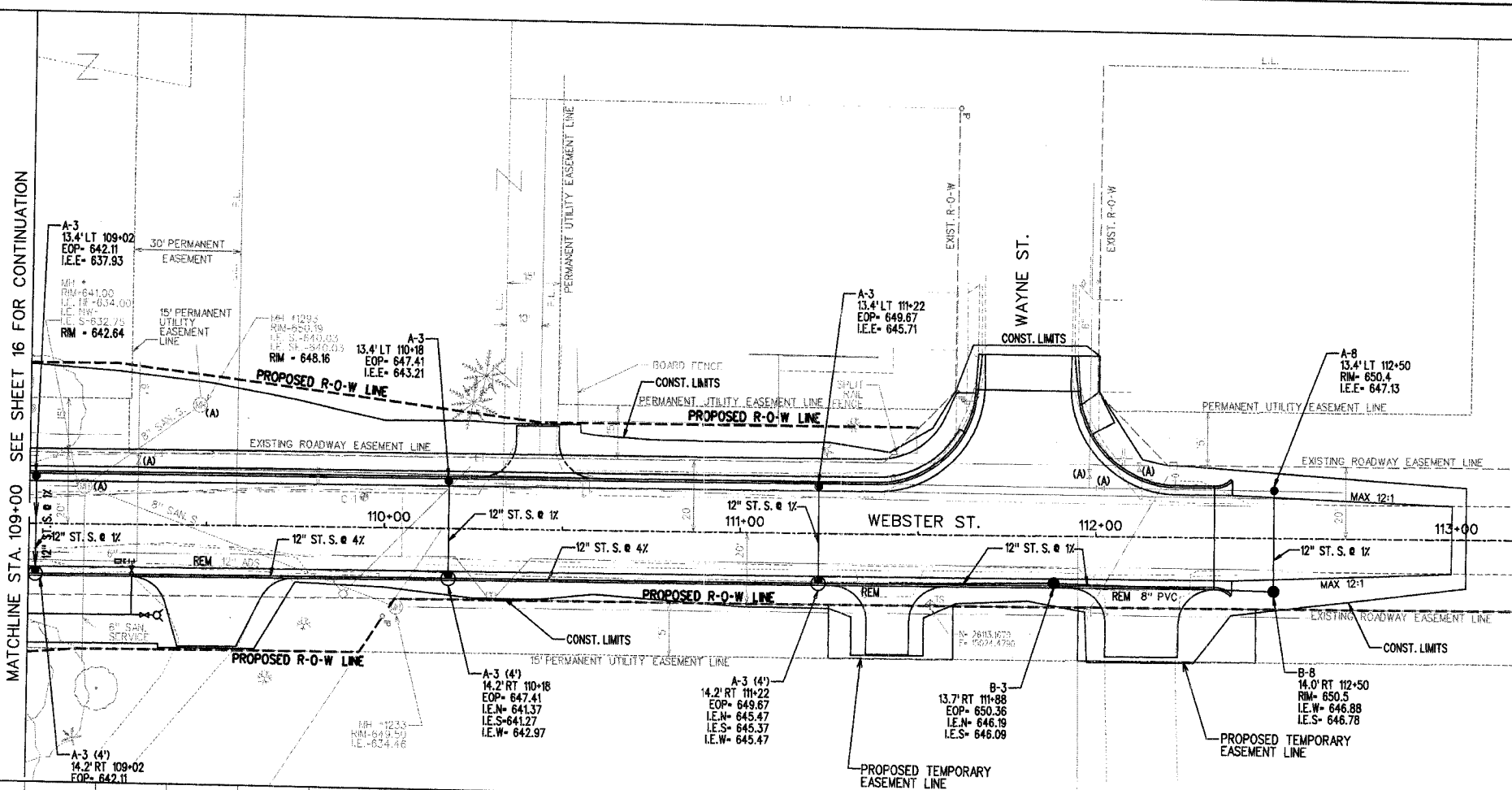
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	17
STA. TO STA.		ILLINOIS PROJECT		
F.H.W.A. REG.		PROJECT		



PLAN	DATE
SURVEYED	
PLOTTED	
CHECKED	
NOTE BOOK NO.	
RT. OF WAY CHECKED	

PROFILE	DATE
SURVEYED	
PLOTTED	
CHECKED	
NOTE BOOK NO.	
STRUCTURE NOTATIONS CHKD	

MATCHLINE STA. 109+00 SEE SHEET 16 FOR CONTINUATION

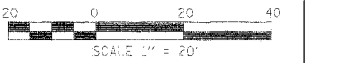


ELLEN B. HEDRICK
ILLINOIS REGISTERED PROFESSIONAL ENGINEER
ENGINEER NUMBER 062-04913
LICENSE EXPIRES 11-30-07

STORM SEWER
PLAN AND PROFILE
SHEET 3 OF 3

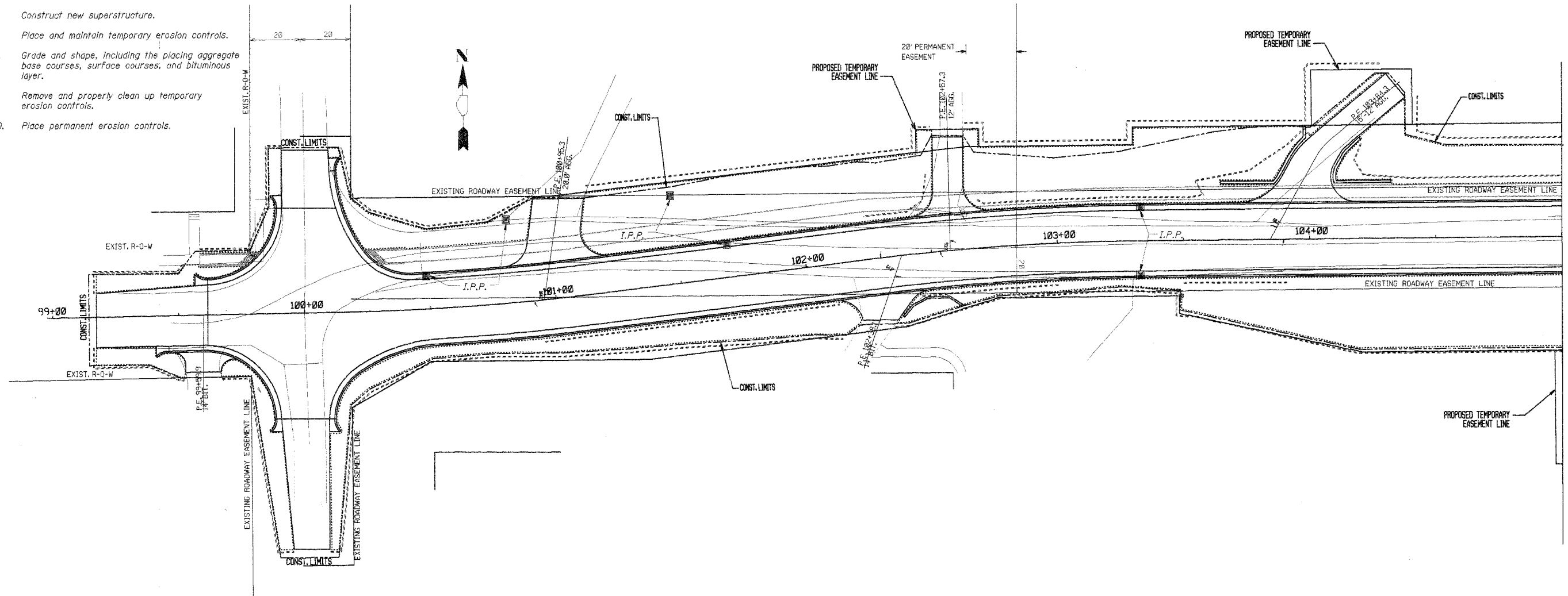
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
FAS 507	*	VERMILION	54	18
"REG. ROAD CONTRACT"		"REG. AID PROJECT"		

* 05-00154-00-BR

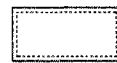


INTENDED SEQUENCE

1. Place of the perimeter erosion control barrier prior to the commencement of any work. See Standard 280001.
2. Prepare utilities requiring relocation.
3. Construct Embankment.
4. Remove the existing structure.
5. Construct new substructure.
6. Construct new superstructure.
7. Place and maintain temporary erosion controls.
8. Grade and shape, including the placing aggregate base courses, surface courses, and bituminous layer.
9. Remove and properly clean up temporary erosion controls.
10. Place permanent erosion controls.



PERMANENT EROSION CONTROL



Location of temporary seeding, seeding, fertilizers and mulch

TEMPORARY EROSION CONTROL



Temporary Ditch Check



Perimeter Erosion Barrier

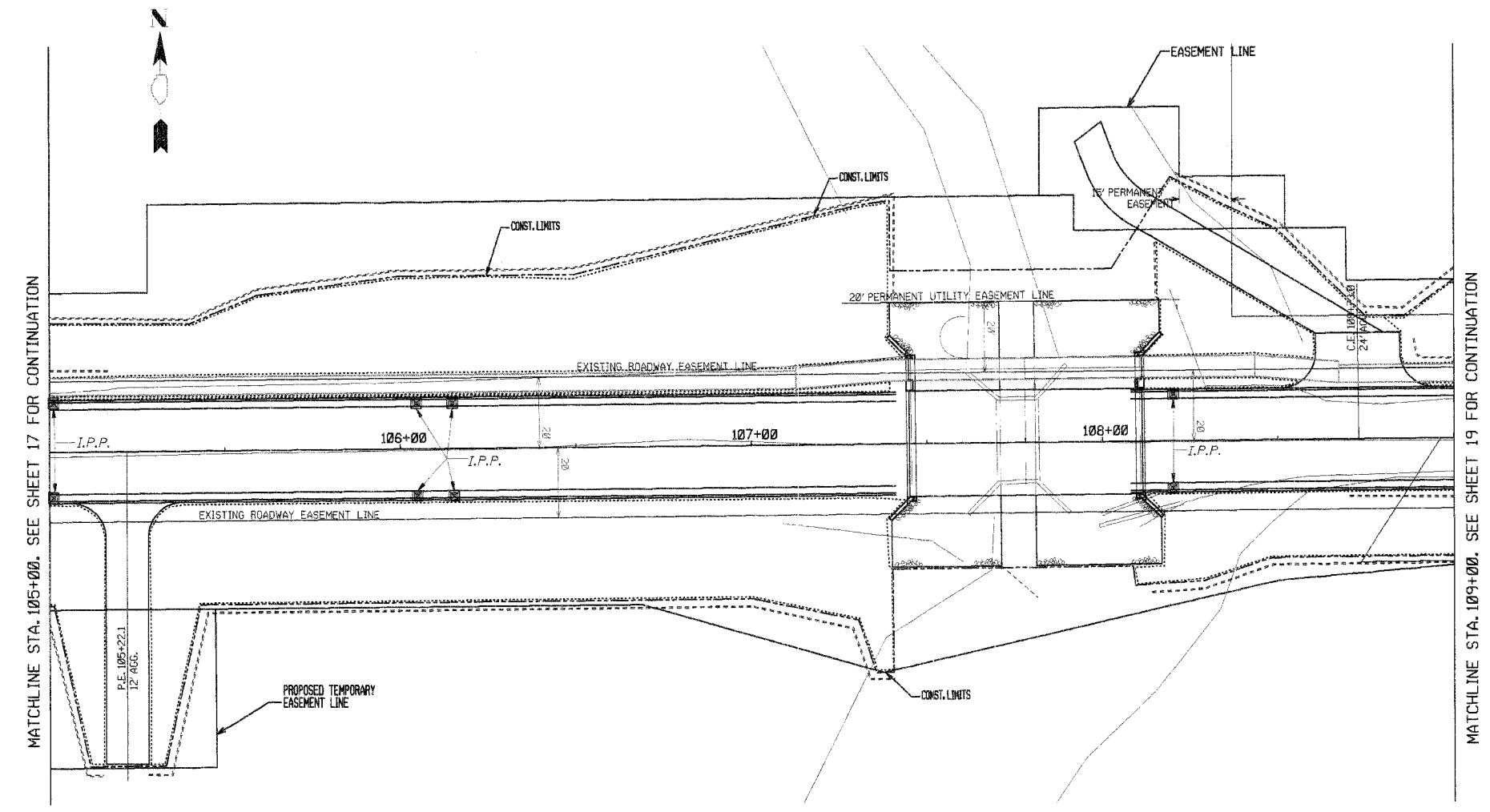
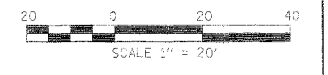


Inlet and Pipe Protection


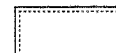
**TEMPORARY EROSION CONTROL
BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
Seeding, Class 2	Acre	1.1
Nitrogen Fertilizer Nutrient	Pound	99
Phosphorus Fertilizer Nutrient	Pound	99
Potassium Fertilizer Nutrient	Pound	99
Temporary Seeding	Acre	1.1
Mulch, Method 2	Acre	1.1
Temporary Ditch Checks	Each	1
Perimeter Erosion Barrier	Foot	3,620
Inlet And Pipe Protection	Each	23



CONTRACT NO. 05-00154-00-BR				
ROUTE NO.	SECTION	COUNTY	STATION	SHEET
FAS 507	*	VERMILION	54	19
FED. ROAD DIST. NO. 7		BLINDS	FED. AID PROJECT	



PERMANENT EROSION CONTROL

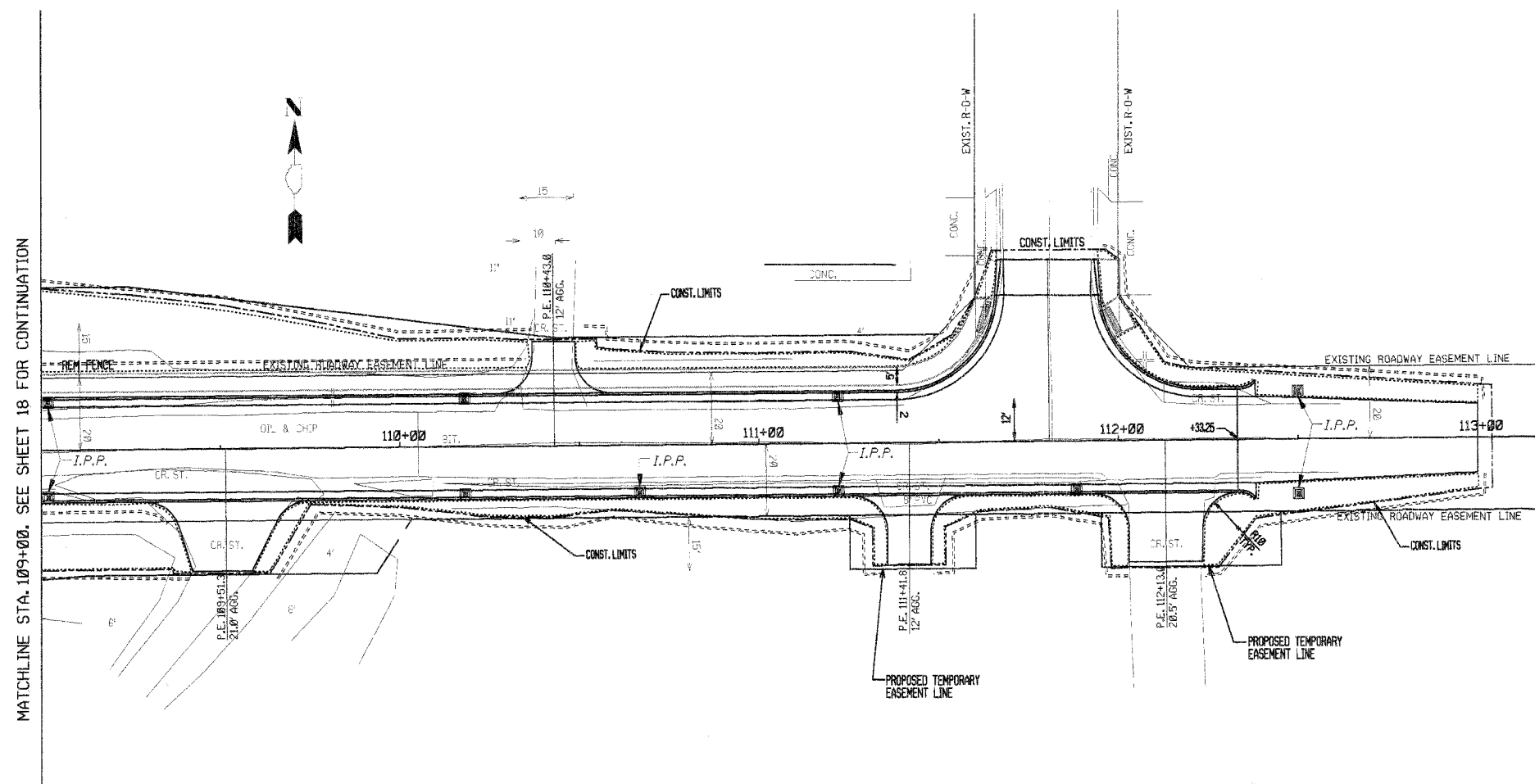
-  Grouted Riprap
-  Location of temporary seeding, seeding, fertilizers and mulch

TEMPORARY EROSION CONTROL

-  Perimeter Erosion Barrier
-  I.P.P. Inlet and Pipe Protection

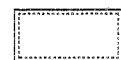
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAS 507	*	VERMILION	54	20
FED. ROAD DIST. NO. *		ALLIANCE	FED. AID PROJECT:	

* 05-00154-00-BR



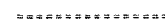
MATCHLINE STA. 109+00. SEE SHEET 18 FOR CONTINUATION

PERMANENT EROSION CONTROL



Location of temporary seeding, seeding, fertilizers and mulch

TEMPORARY EROSION CONTROL

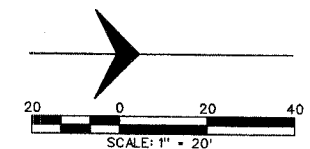


Perimeter Erosion Barrier



I.P.P. Inlet and Pipe Protection

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	21
STA.		TO STA.		
F.H.W.A. REG.		ILLINOIS PROJECT		



DATE	BY

PLAN

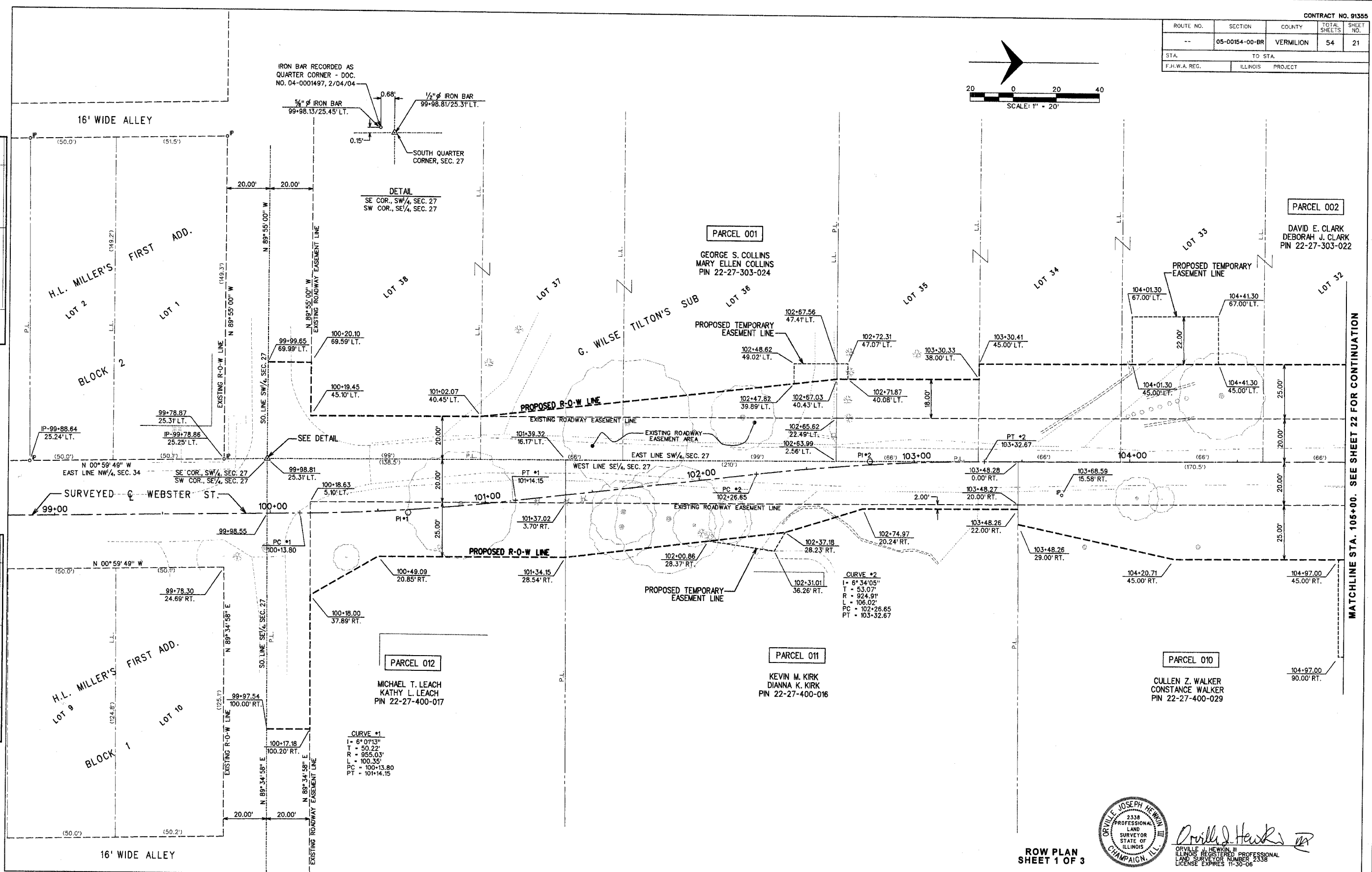
SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
E.M.A. NOTED
NO. STRUCTURE, NOTAINS CHKD

NO. RT. OF WAY CHECKED

DATE	BY

PROFILE

SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
E.M.A. NOTED
NO. STRUCTURE, NOTAINS CHKD



PARCEL 002

DAVID E. CLARK
DEBORAH J. CLARK
PIN 22-27-303-022

MATCHLINE STA. 105+00. SEE SHEET 22 FOR CONTINUATION

CURVE #1
L = 61.0133'
T = 50.22'
R = 955.03'
L = 100.35'
PC = 100+13.80
PT = 101+14.15

CURVE #2
L = 61.3405'
T = 53.07'
R = 924.91'
L = 106.02'
PC = 102+26.65
PT = 103+32.67

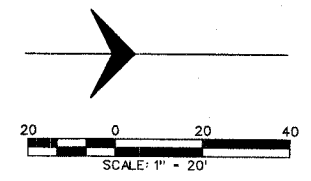


Orville J. Hewitt

ORVILLE JOSEPH HEWITT
ILLINOIS REGISTERED PROFESSIONAL
LAND SURVEYOR NUMBER 2338
LICENSE EXPIRES 11-30-06

ROW PLAN
SHEET 1 OF 3

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	22
STA. TO STA.		ILLINOIS PROJECT		
F.H.W.A. REG.		ILLINOIS PROJECT		



PLAN

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK NO.	
ST. OF WAY DESIGN	

PROFILE

DATE	
BY	
SURVEYED	
GRADES CHECKED	
B.M.'S NOTED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	

PARCEL 002
DAVID E. CLARK
DEBORAH J. CLARK
PIN 22-27-303-022

LOT 11
PIN 22-27-306-030

OUTLOT "A"
HUFFMAN ACRES SUB
PIN 22-27-306-036

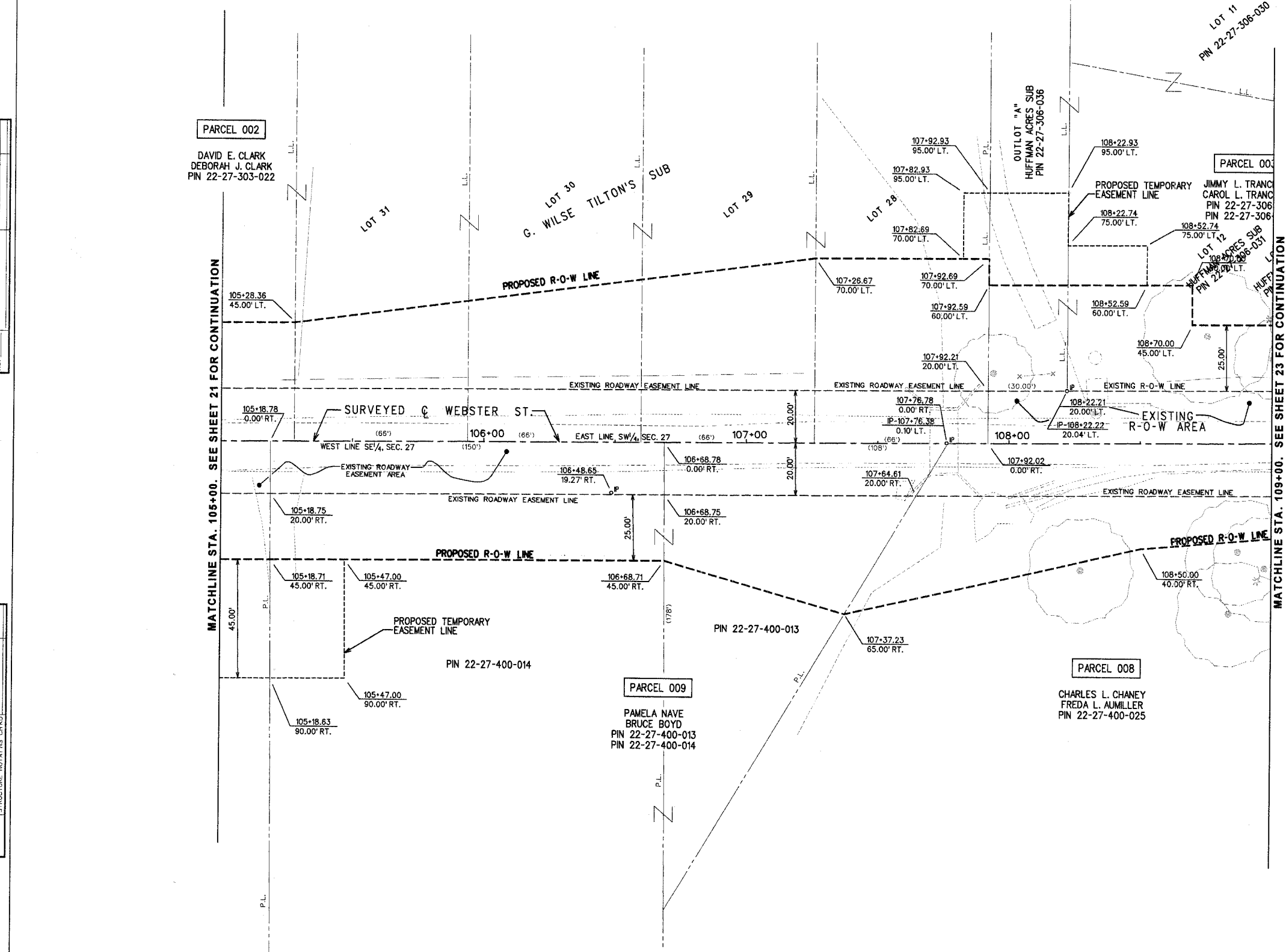
PARCEL 003
JIMMY L. TRANC
CAROL L. TRANC
PIN 22-27-306-031
PIN 22-27-306-032

PARCEL 009
PAMELA NAVE
BRUCE BOYD
PIN 22-27-400-013
PIN 22-27-400-014

PARCEL 008
CHARLES L. CHANEY
FREDA L. AUMILLER
PIN 22-27-400-025

MATCHLINE STA. 105+00. SEE SHEET 21 FOR CONTINUATION

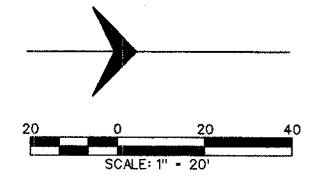
MATCHLINE STA. 109+00. SEE SHEET 23 FOR CONTINUATION



Orville J. Hewitt III
ORVILLE J. HEWITT III
ILLINOIS REGISTERED PROFESSIONAL
LAND SURVEYOR NUMBER 2338
LICENSE EXPIRES 11-30-06

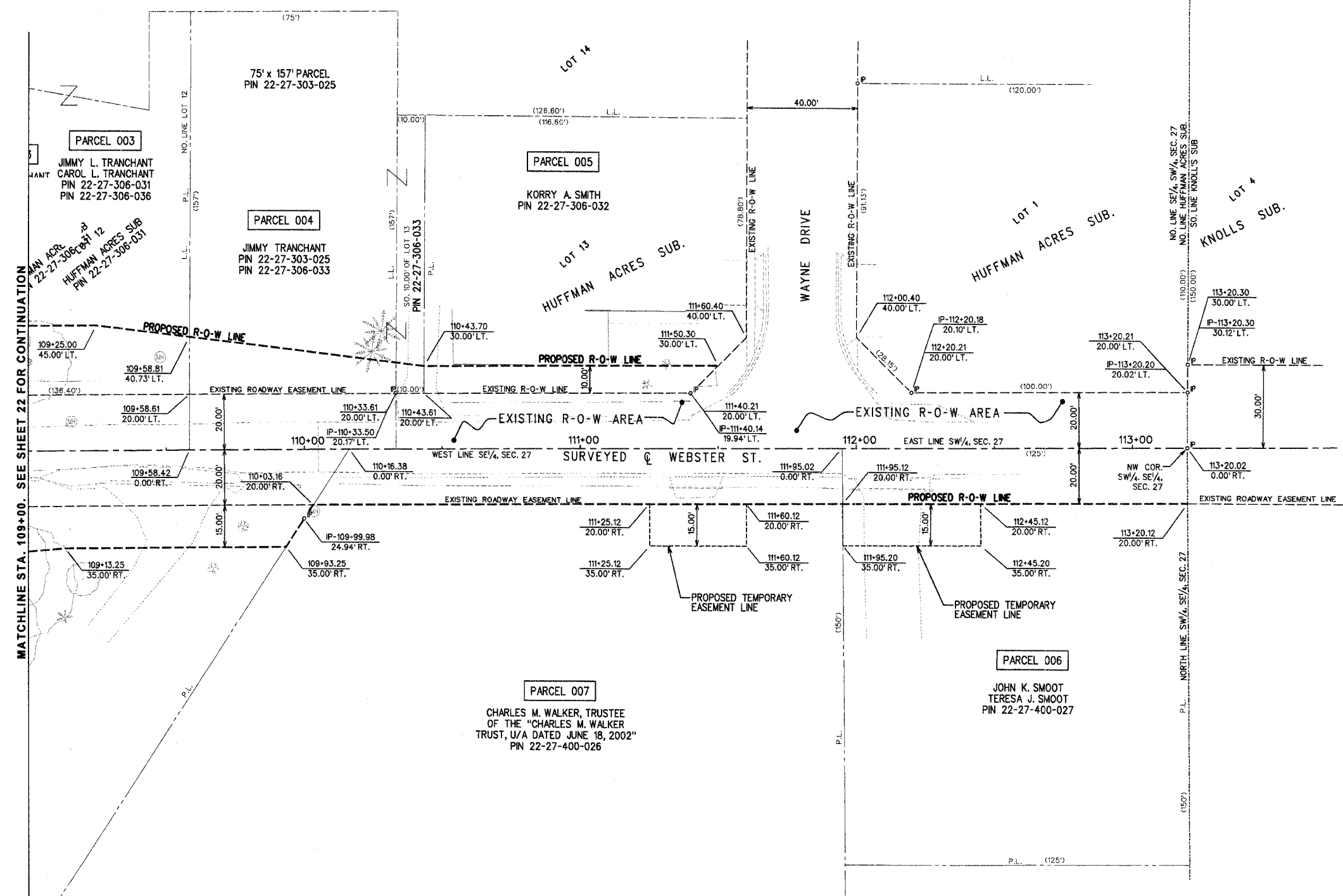
Plan Sheet ROW PLAN.dgn 12/6/2006 2:43:00 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	23
STA. TO STA.		ILLINOIS PROJECT		
F.H.W.A. REG.		PROJECT		



PLAN	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
NOTE BOOK		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
NOTE BOOK		
NO.		



Orville J. Hewkin III
 ORVILLE J. HEWKIN III
 ILLINOIS REGISTERED PROFESSIONAL
 LAND SURVEYOR NUMBER 2338
 LICENSE EXPIRES 11-30-08

ROW PLAN
 SHEET 3 OF 3

\\p120\sheet\A\ROW\PLAN.dwg 12/5/2006 2:43:52 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	24
STA. TO STA.		ILLINOIS PROJECT		
F.H.W.A. REG.		PROJECT		

PLAN

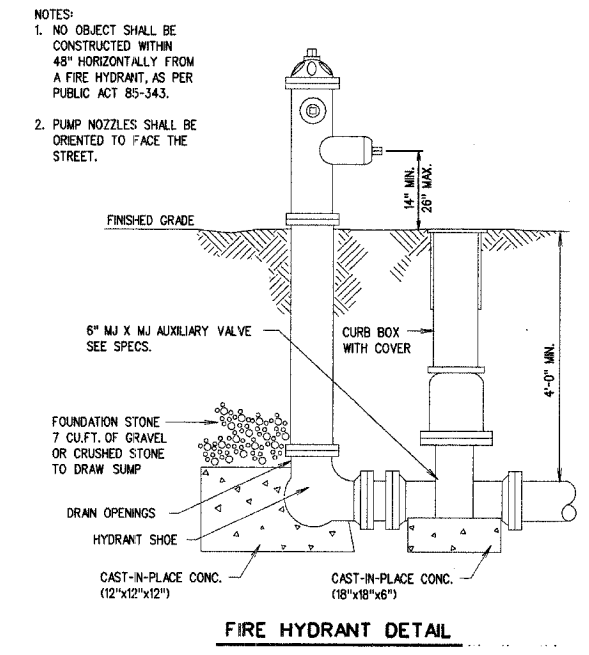
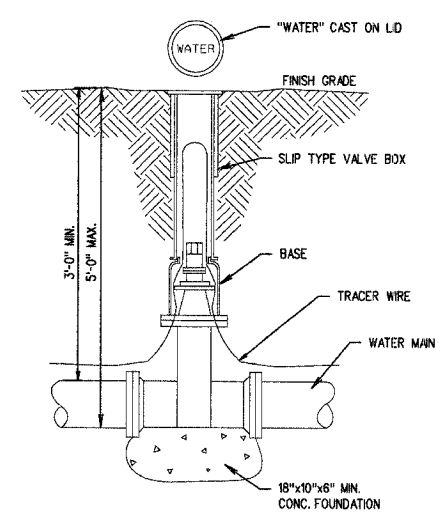
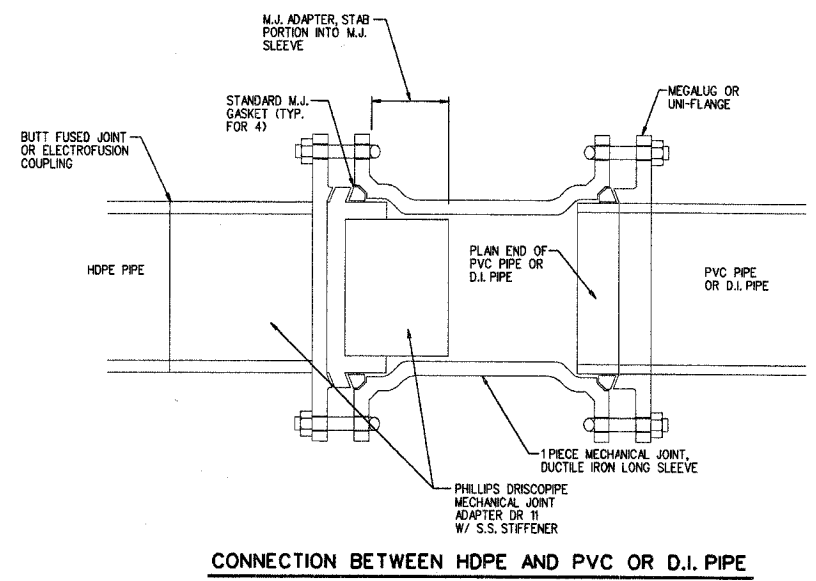
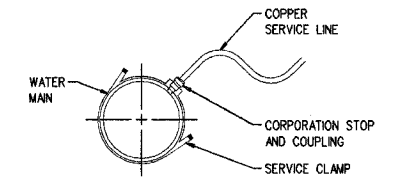
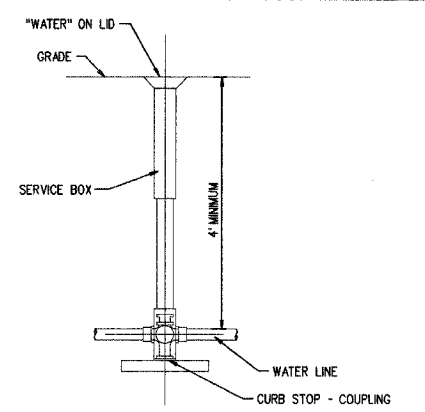
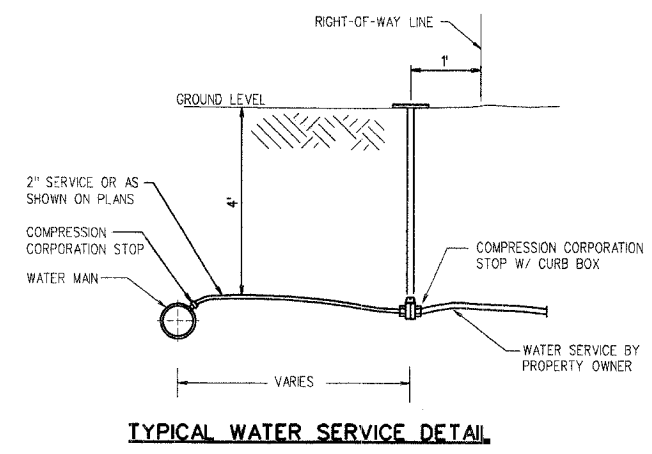
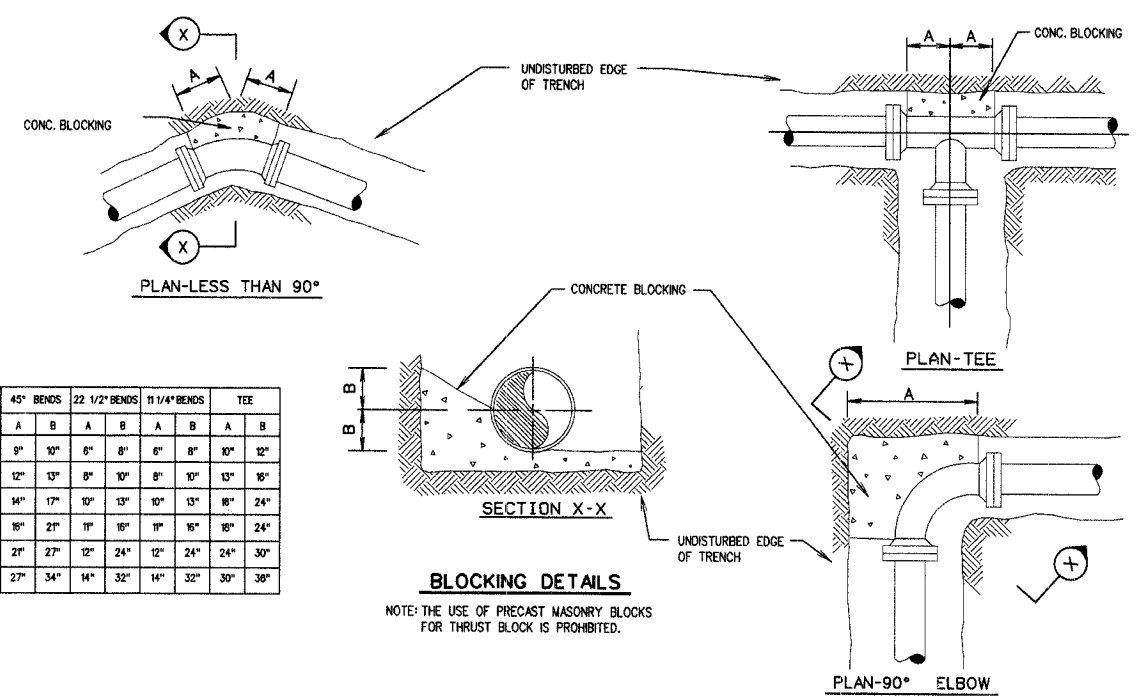
DATE	BY	DATE	BY

SURVEYED
 PLOTTED
 CHECKED
 NOTE BOOK NO.

PROFILE

DATE	BY	DATE	BY

SURVEYED
 PLOTTED
 CHECKED
 NOTE BOOK NO.



- NOTES:
- NO OBJECT SHALL BE CONSTRUCTED WITHIN 48" HORIZONTALLY FROM A FIRE HYDRANT, AS PER PUBLIC ACT 85-343.
 - PUMP NOZZLES SHALL BE ORIENTED TO FACE THE STREET.

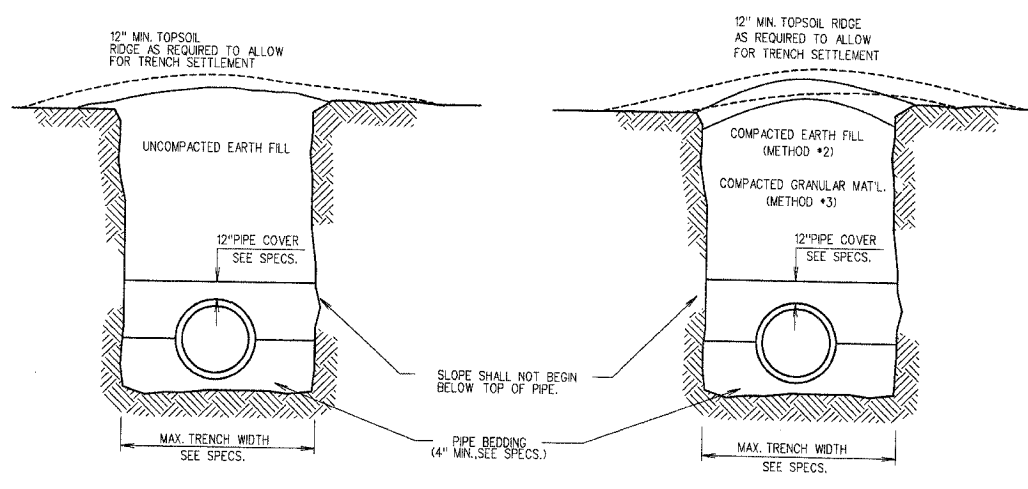
WATER MAIN DETAILS



Ellen B. Hedrick
 REGISTERED PROFESSIONAL ENGINEER
 OF ILLINOIS
 LICENSE NO. 062-049131
 LICENSE EXPIRES 11-30-07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	25

STA. _____ TO STA. _____
F.H.W.A. REG. ILLINOIS PROJECT

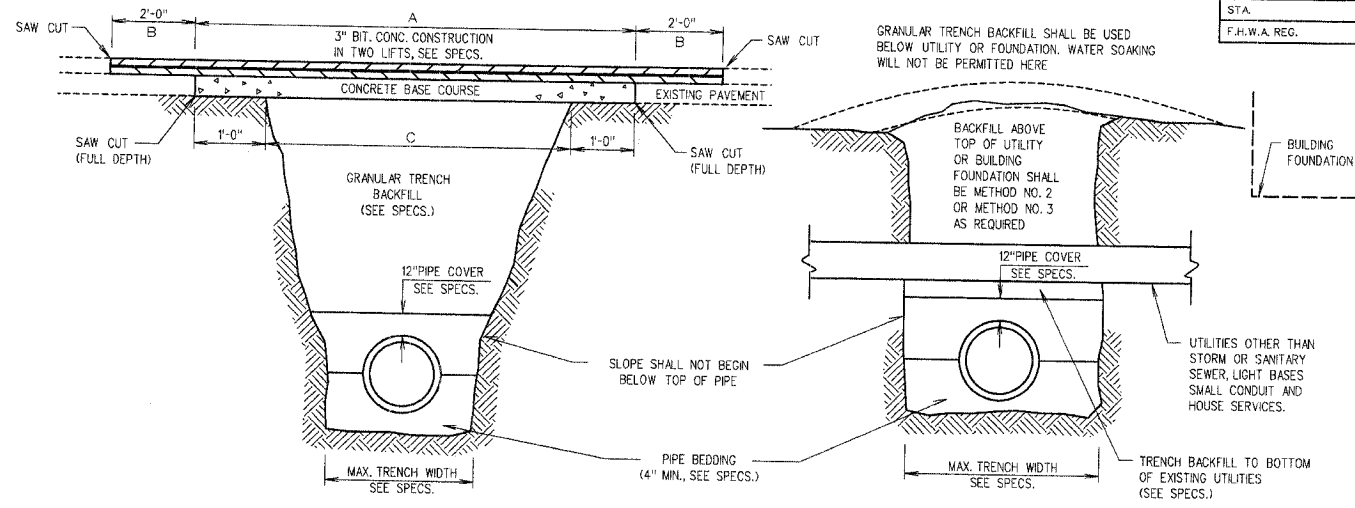


BACKFILL METHOD NO. 1

FOR BACKFILLING IN OPEN AREAS, SUCH AS CROPLAND OR OTHER ZONES WITH UNCLASSIFIED AND NON-IMPROVED SURFACES

BACKFILL METHOD NO. 2 OR 3

FOR BACKFILLING IN SODDING OR GRASSED AREAS (EXCEPT NEAR BUILDING FOUNDATION) AND BENEATH OR ALONG NON-RIGID SURFACES.



BACKFILL METHOD NO. 4

FOR BACKFILLING BENEATH CONCRETE, ASPHALT AND OIL & CHIP SURFACES, INCLUDING SIDEWALKS, DRIVES, PARKING AREAS, ETC.
A. EXISTING SURFACE IN THIS AREA TO BE REMOVED FIRST (SAW CUT FULL DEPTH).
B. ADDITIONAL BIT. PAVEMENT TO BE REMOVED.
C. GRANULAR TRENCH BACKFILL PAVEMENT WIDTH

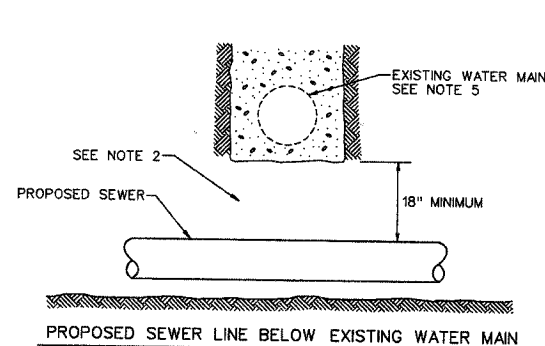
BACKFILL METHOD NO. 5

FOR BACKFILLING NEAR BUILDING FOUNDATIONS OR OTHER STRUCTURES OR UTILITIES PRESENTING SPECIAL HAZARDS.

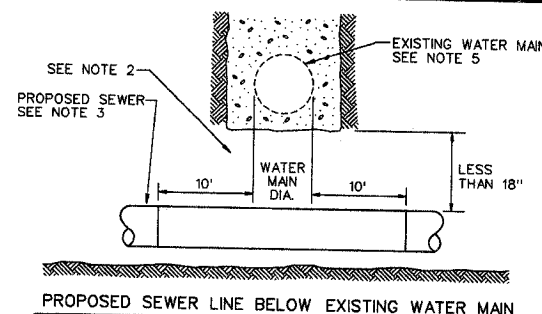
NOTE:
FOR ACCEPTABLE GRANULAR TRENCH BACKFILL MATERIAL, SEE SPEC. SECTION 02222.

GUIDELINES

1. IF SELECT GRANULAR BACKFILL EXISTS; REMOVE WITHIN WIDTH OF PROPOSED TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL AND COMPACT.
2. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO 1 FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL AND COMPACT FOR 10 FEET ON EITHER SIDE OF WATER MAIN.
3. CONSTRUCT PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER AND WATER MAIN.
5. PROVIDE ADEQUATE SUPPORT FOR EXISTING PIPE TO PREVENT DAMAGE DUE TO SETTLEMENT OF TRENCH.



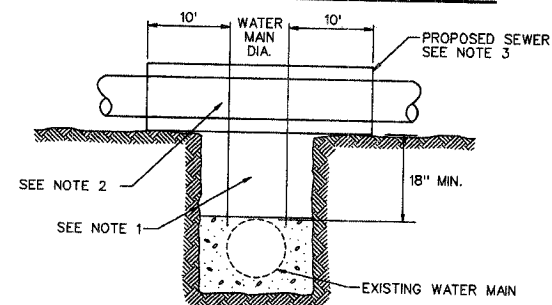
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN



PROPOSED SEWER LINE BELOW EXISTING WATER MAIN

WATER AND SEWER SEPARATION DETAIL

NOTE: SELECT EXCAVATED MATERIAL TO BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
NOTE: THE COST OF COMPLYING WITH THESE REQUIREMENTS, AS WELL AS THE WATER AND SEWER SEPARATION REQUIREMENTS AS SHOWN IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE SANITARY SEWER BEING INSTALLED, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



PROPOSED SEWER ABOVE EXISTING WATER MAIN

PLAN

DATE
BY
DATE
BY
DATE
BY

SURVEYED _____
 PLOTTED _____
 NOTE BOOK NO. _____
 CHECKED _____
 STRUCTURE NO. _____
 DRAWN BY _____
 DATE _____

PROFILE

DATE
BY
DATE
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DATE
BY

SURVEYED _____
 PLOTTED _____
 NOTE BOOK NO. _____
 CHECKED _____
 STRUCTURE NO. _____
 DRAWN BY _____
 DATE _____



ELLEN B. HEDRICK
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS
ENGINEER NUMBER 082-049131
LICENSE EXPIRES 11-30-07

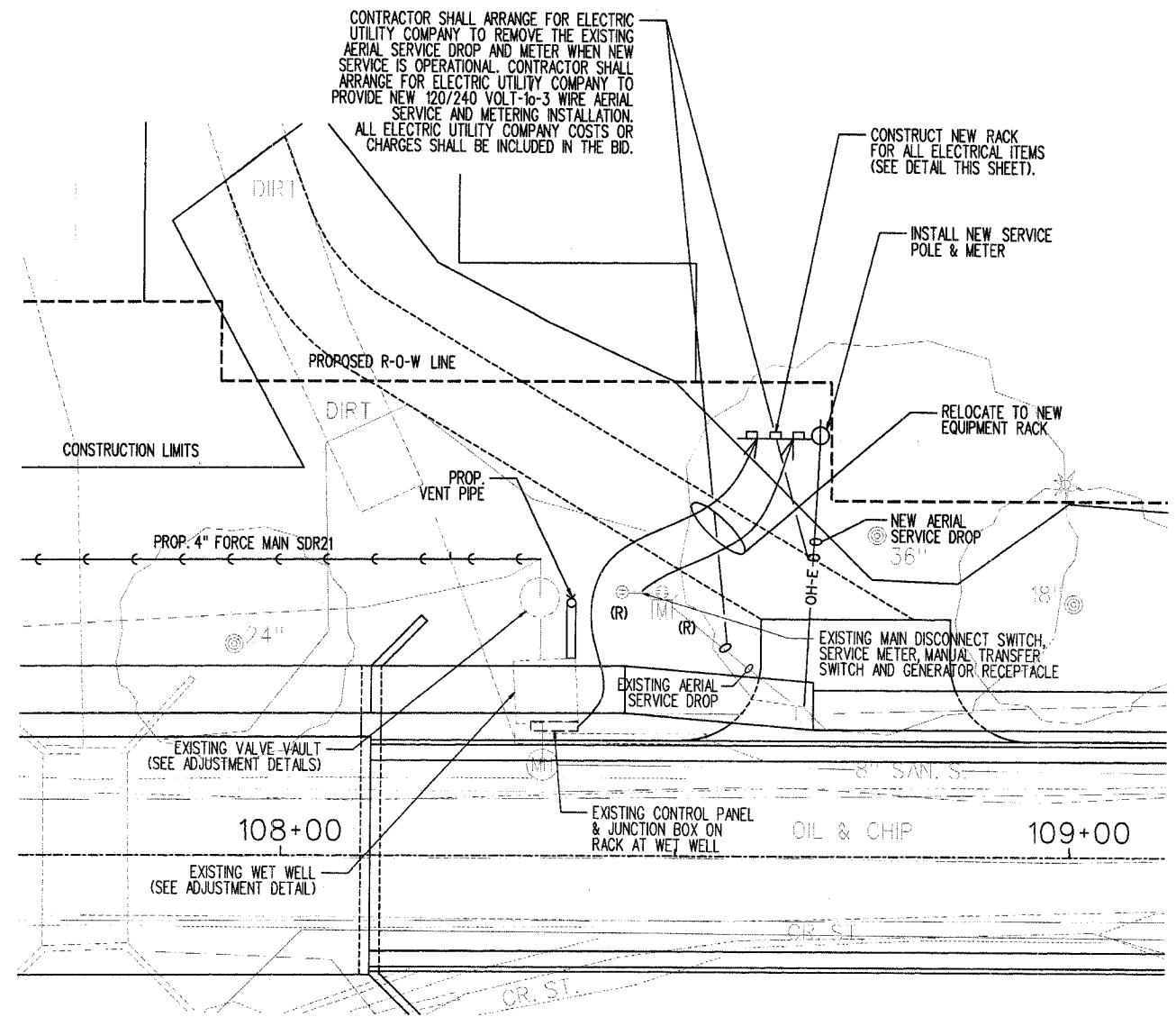
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	26
STA. TO STA.		F.H.W.A. REG. ILLINOIS PROJECT		

PLAN

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
NO.	

PROFILE

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
CHECKED	
STRUCTURE NOTATIONS CHKD	
NO.	



CONTRACTOR SHALL ARRANGE FOR ELECTRIC UTILITY COMPANY TO REMOVE THE EXISTING AERIAL SERVICE DROP AND METER WHEN NEW SERVICE IS OPERATIONAL. CONTRACTOR SHALL ARRANGE FOR ELECTRIC UTILITY COMPANY TO PROVIDE NEW 120/240 VOLT-1-3 WIRE AERIAL SERVICE AND METERING INSTALLATION. ALL ELECTRIC UTILITY COMPANY COSTS OR CHARGES SHALL BE INCLUDED IN THE BID.

CONSTRUCT NEW RACK FOR ALL ELECTRICAL ITEMS (SEE DETAIL THIS SHEET).

INSTALL NEW SERVICE POLE & METER

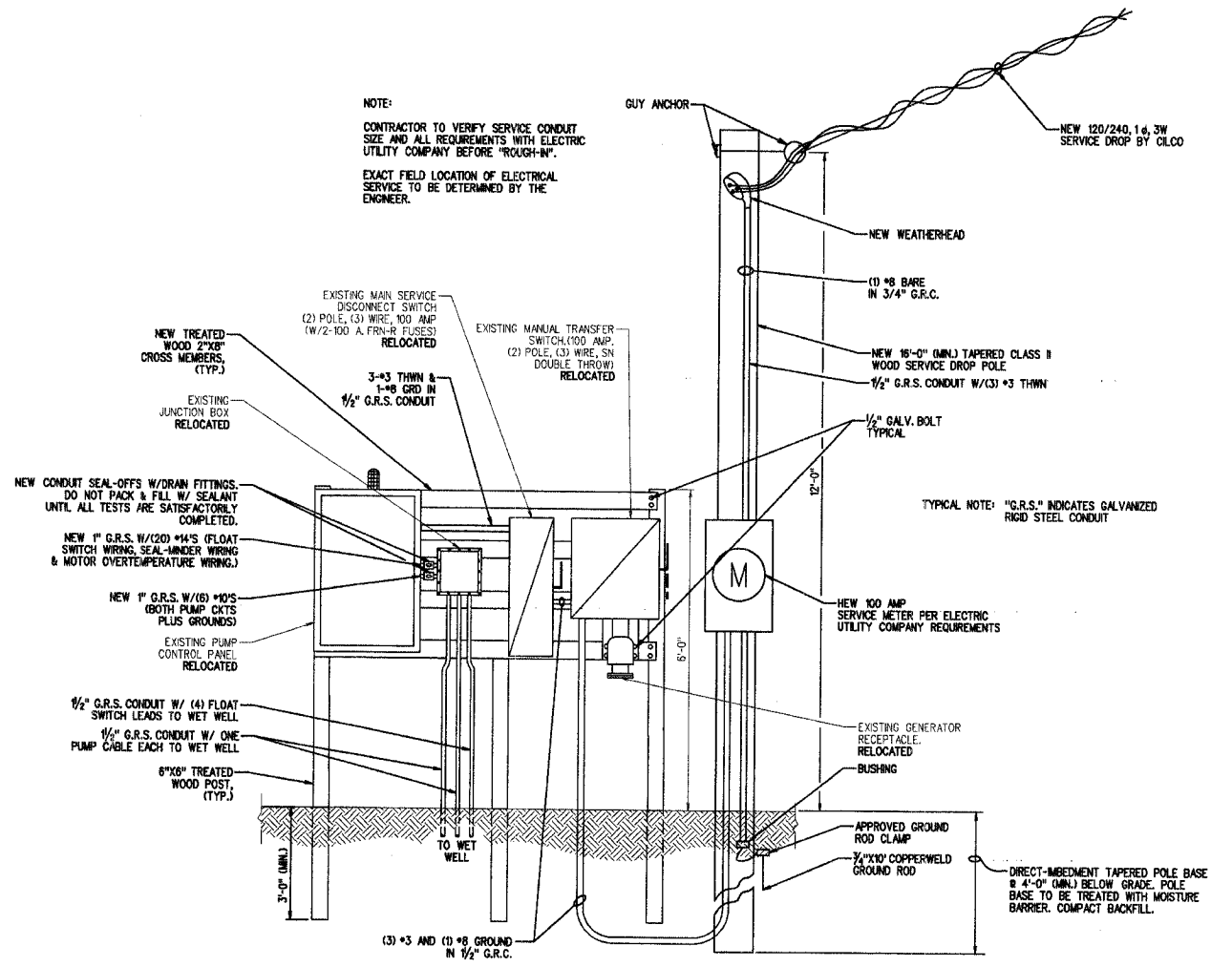
RELOCATE TO NEW EQUIPMENT RACK

EXISTING MAIN DISCONNECT SWITCH, SERVICE METER, MANUAL TRANSFER SWITCH AND GENERATOR RECEPTACLE

PLAN OVERVIEW
SCALE: 1" = 10'



Signature (2-1-08)
ELLEN B. HEDRICK
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NUMBER 062-049131
LICENSE EXPIRES 11-30-07



NOTE:
CONTRACTOR TO VERIFY SERVICE CONDUIT SIZE AND ALL REQUIREMENTS WITH ELECTRIC UTILITY COMPANY BEFORE "ROUGH-IN".
EXACT FIELD LOCATION OF ELECTRICAL SERVICE TO BE DETERMINED BY THE ENGINEER.

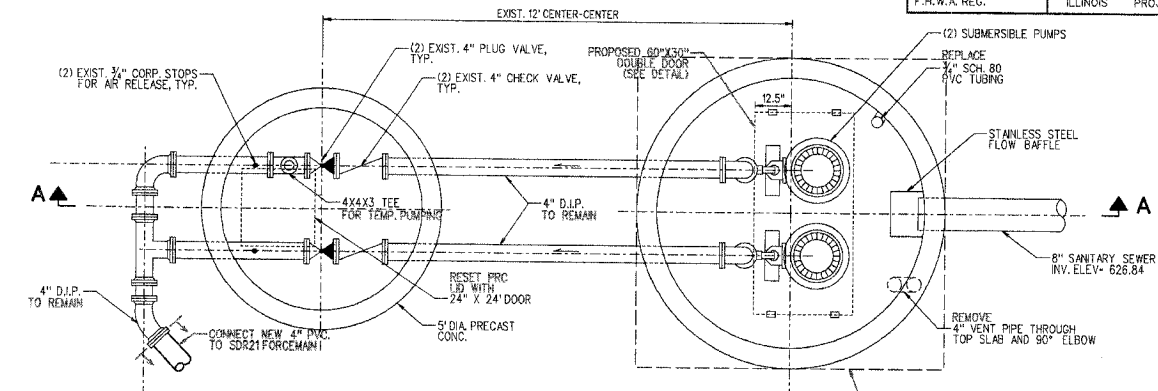
TYPICAL NOTE: "G.R.S." INDICATES GALVANIZED RIGID STEEL CONDUIT

RELOCATED PUMP STATION CONTROL PANEL AND ELECTRICAL SERVICE DETAIL
NO SCALE

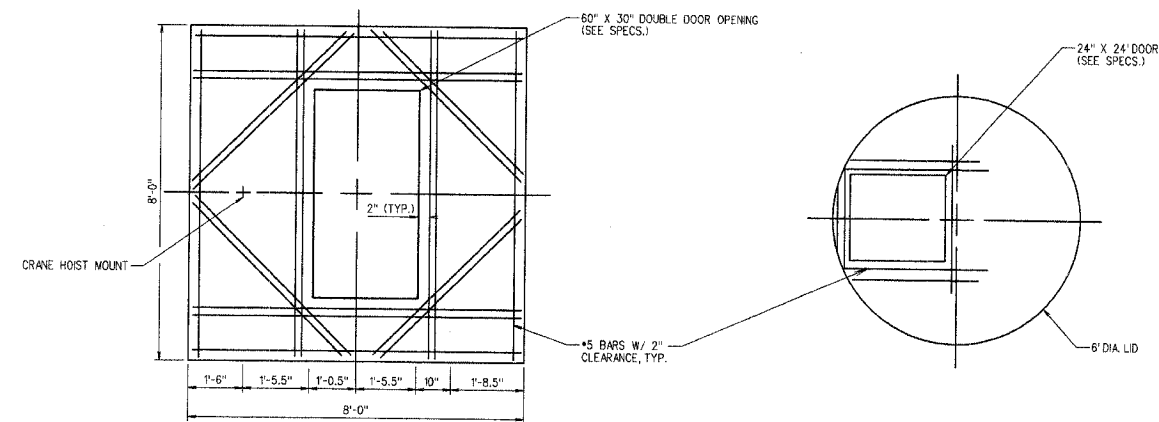
PUMP STATION DETAILS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	27
STA.		TO STA.		
F.H.W.A. REG.		ILLINOIS PROJECT		

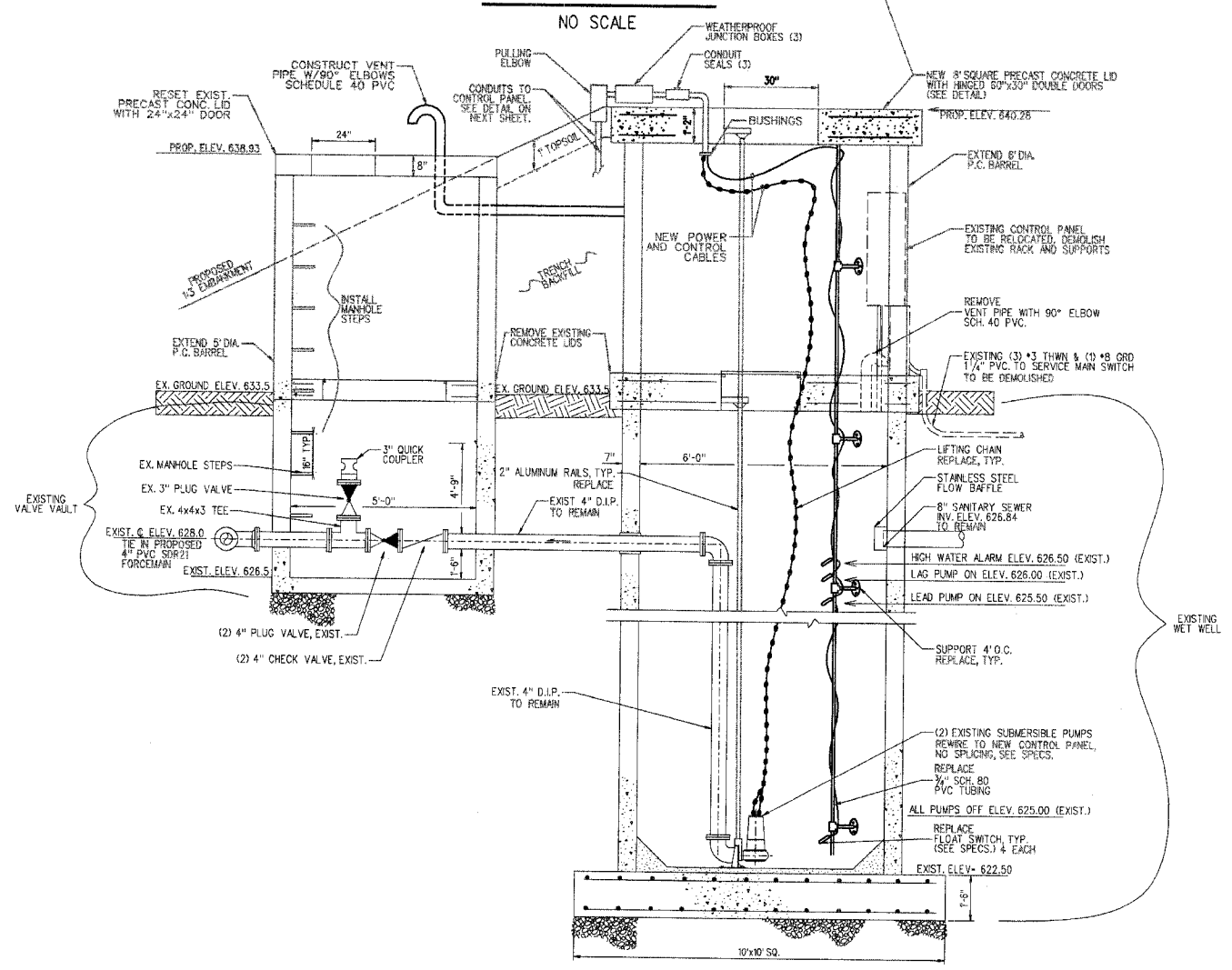
VERIFY DIMENSIONS WITH APPROVED MANUFACTURER'S SHOP DRAWINGS



PLAN VIEW
NO SCALE



PUMP STATION LID DETAILS
NO SCALE



SECTION A-A
PUMP STATION & VALVE VAULT ADJUSTMENTS
NO SCALE

PUMP STATION DETAILS

PLAN

DATE	BY

SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
NO. _____
STRUCTURE NOTATIONS CHECKED

PROFILE

DATE	BY

SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
NO. _____
STRUCTURE NOTATIONS CHECKED

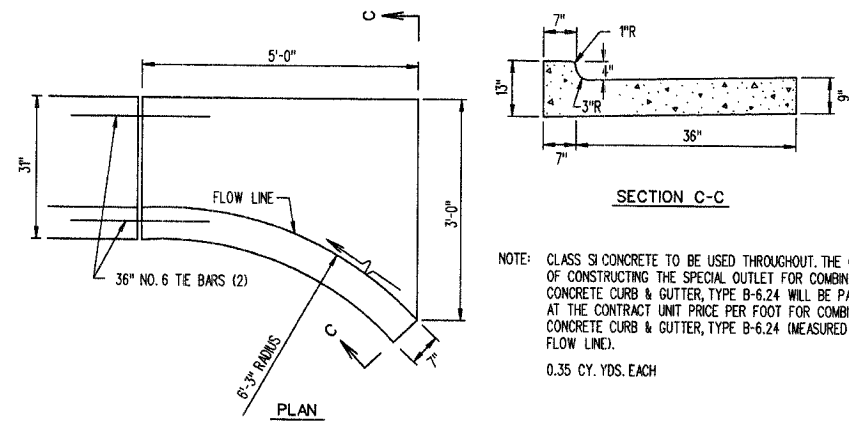
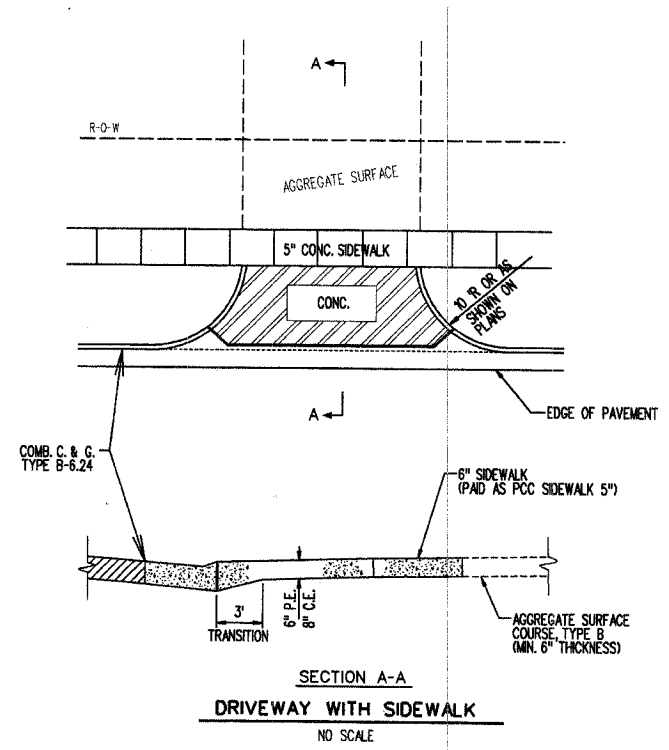


Camelia Roman
ELLEN HEDRICK
REGISTERED PROFESSIONAL
ENGINEER NUMBER 062-049131
LICENSE EXPIRES 11-30-07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	28
STA.		TO STA.		
F.H.W.A. REG.		ILLINOIS PROJECT		

PLAN

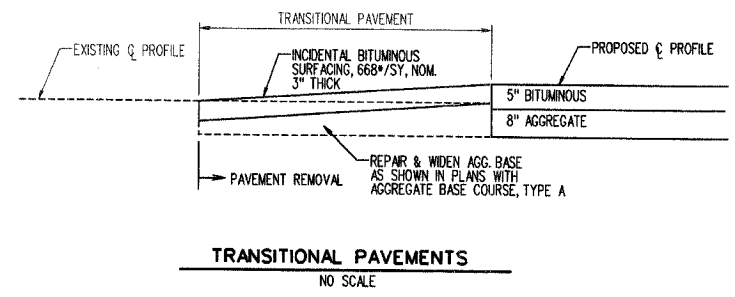
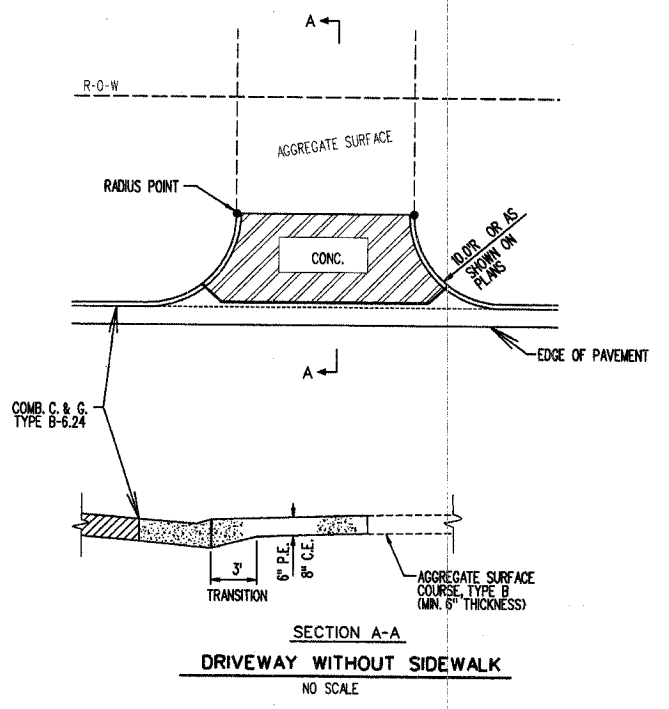
DESIGNED	BY	DATE
PLOTTED		
CHECKED		
NOTE: BOOK ALIGNMENT CHECKED RT. OF WAY CHECKED		
NO.		



CURB & GUTTER OUTLET DETAIL
N.T.S.

PROFILE

SURVEYED	BY	DATE
GRADES CHECKED		
PLOTTED		
CHECKED		
NOTE: BOOK GRADES CHECKED STRUCTURE NOTATIONS CHKD		
NO.		



TRANSITIONAL PAVEMENTS
NO SCALE



Ellen B. Hedrick
ELLEN B. HEDRICK
ILLINOIS REGISTERED PROFESSIONAL
ENGINEER NUMBER 062-049131
LICENSE EXPIRES 11-30-07

PAVEMENT DETAILS

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	29
STA.		TO STA.		
F.H.W.A. REG.		ILLINOIS PROJECT		

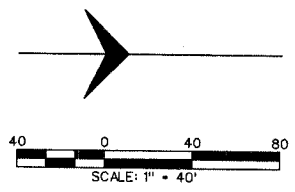
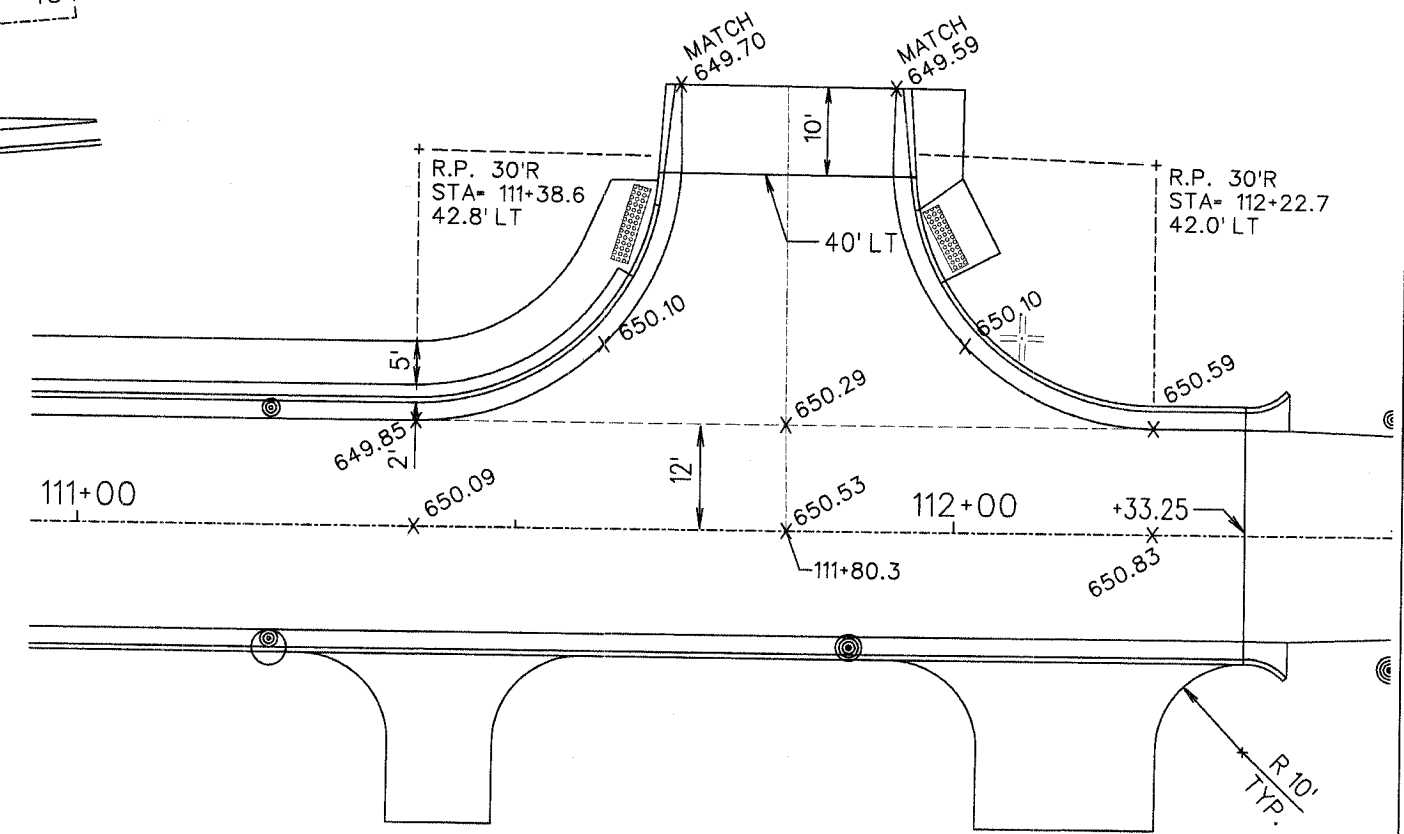
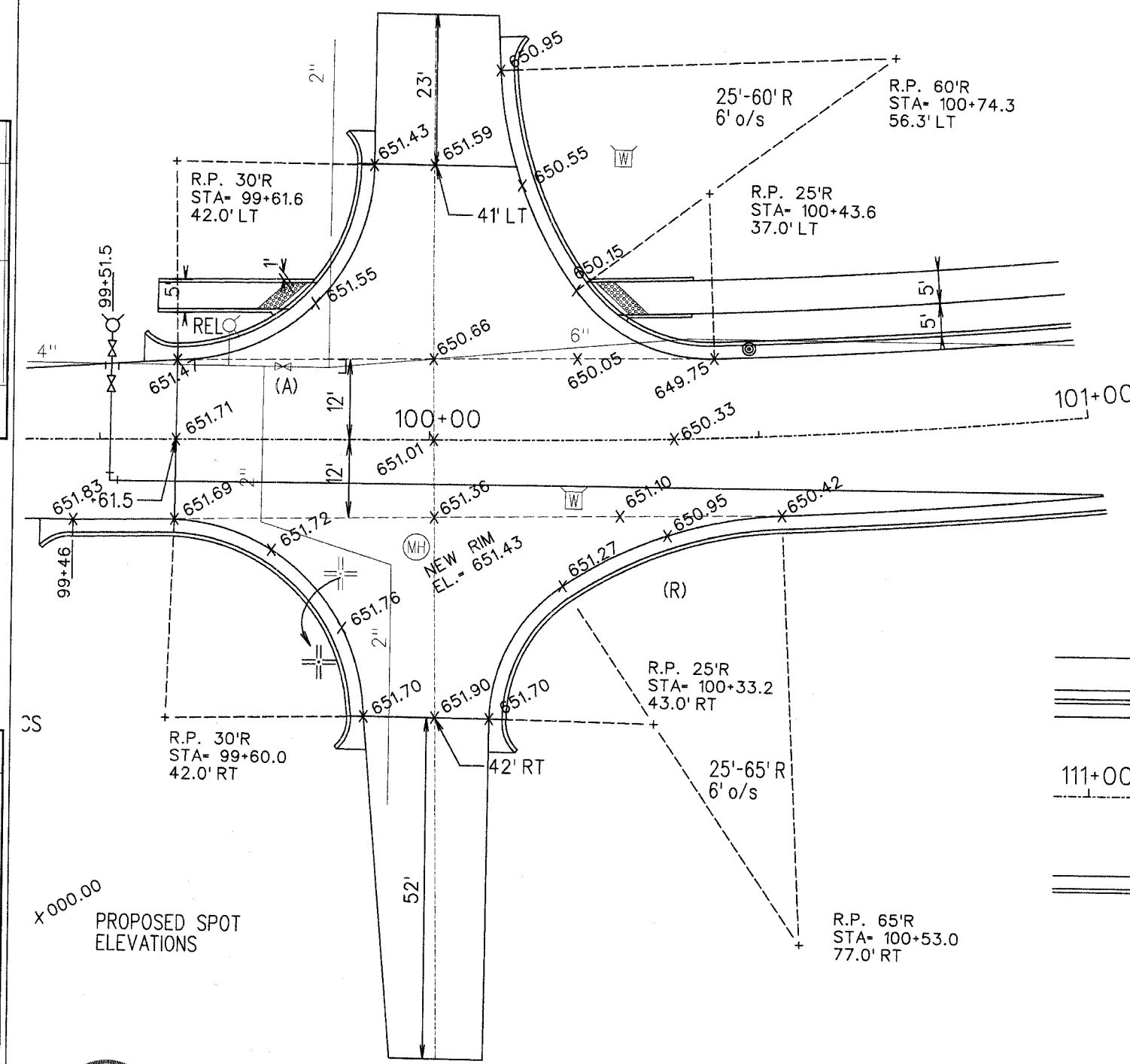
PLAN

BY	DATE
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATION CHKD.	

NOTE: ROOM ALIGNMENT CHECKED.
RT. OF WAY CHECKED.

PROFILE

BY	DATE
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATION CHKD.	



PROPOSED SPOT ELEVATIONS



ELLEN B. HEDRICK
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS
ENGINEER NUMBER 062-049131
LICENSE EXPIRES 11-30-07

NORTHVIEW DRIVE
STA. 99+00 ~ 101+00

WAYNE STREET
STA. 111+00 ~ 112+50

INTERSECTION DETAILS

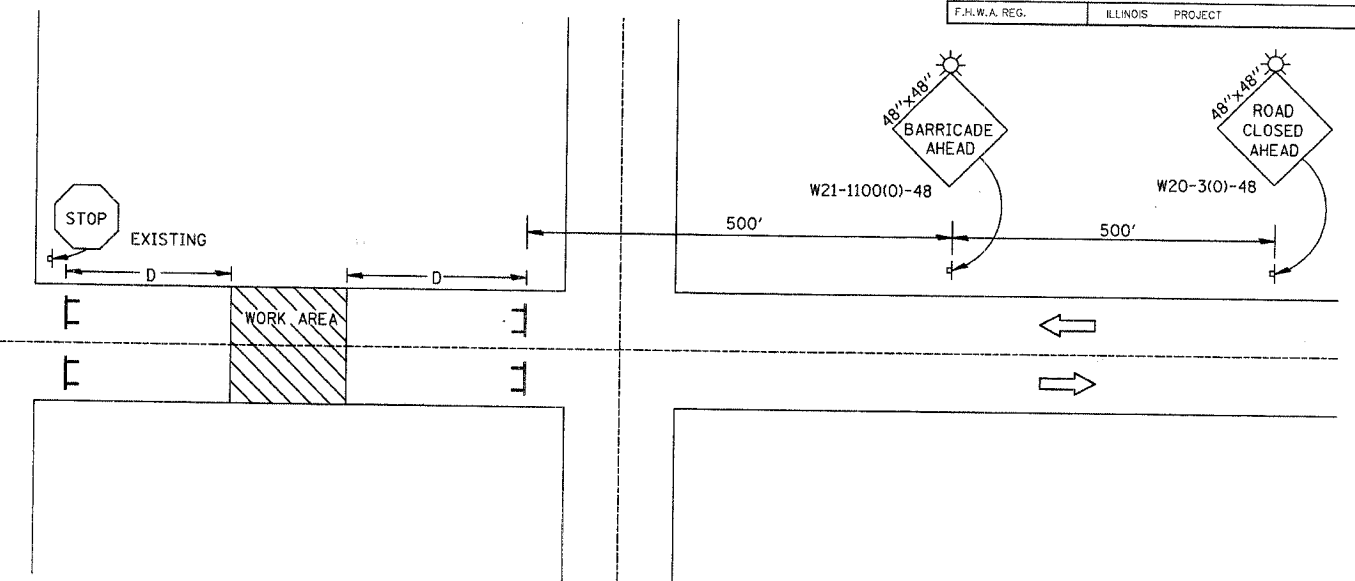
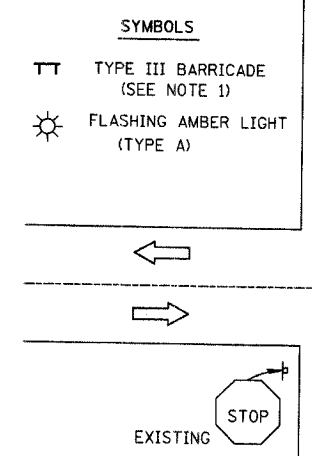
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	30
STA. TO STA.		F.H.W.A. REG. ILLINOIS PROJECT		

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR ROAD CLOSURE

GENERAL NOTES

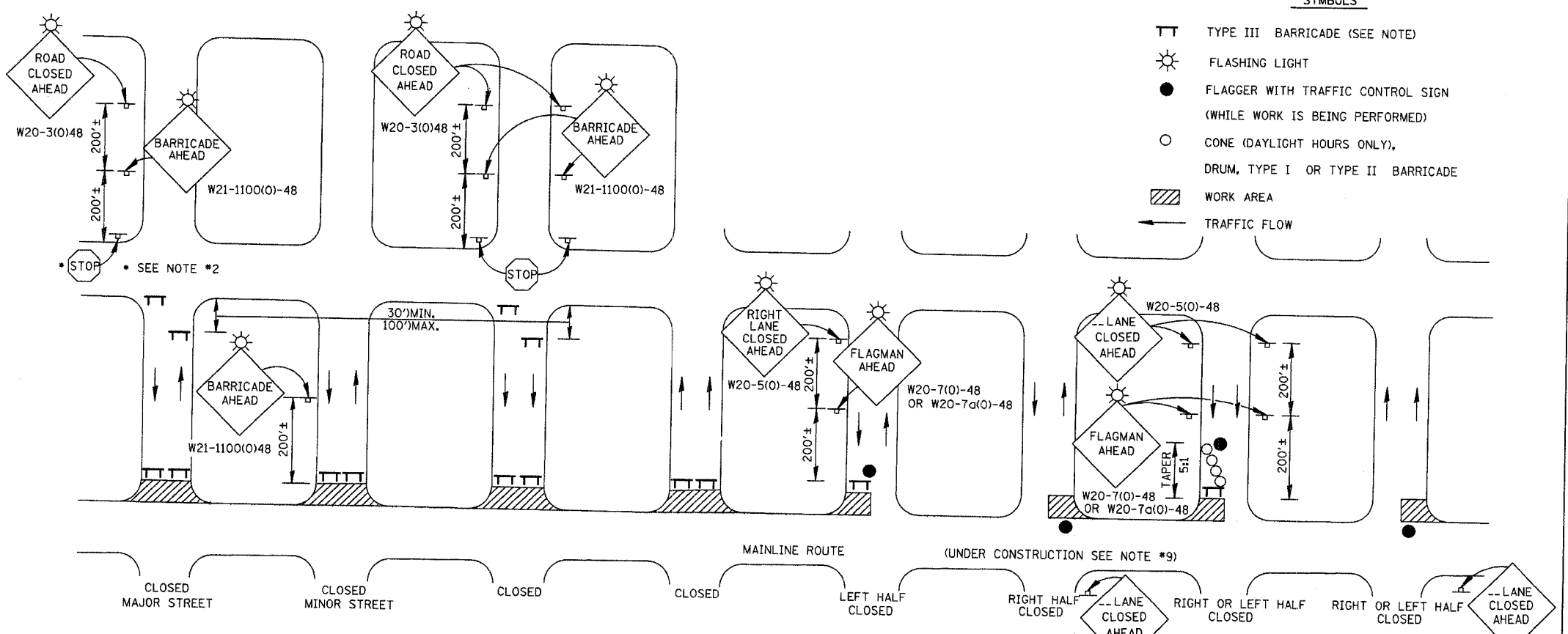
- TYPE III BARRICADES SHALL BE AS SHOWN ON STD. 702001 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD." SIGN STD. R-11-2, 3 OR 4 SHALL BE MOUNTED ON THE BARRICADE. EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR "D" EXCEEDS 1000', ANOTHER SET OF TYPE III BARRICADES, EQUIPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, AS SHOWN ABOVE, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 1000' OF THE INTERSECTION.
- STANDARD 702001 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.



GENERAL NOTES

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR SIDE STREET CLOSURES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD" SIGN STD. 1211-2 OR 1211-4 SHALL BE MOUNTED ON THE BARRICADE. EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 702001 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS INVOLVING THE RECONSTRUCTION OF ALL APPLICABLE SIDE STREETS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



ELLEN B. HEDRICK
082-049131
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

Ellen Hedrick
ELLEN HEDRICK
ILLINOIS REGISTERED PROFESSIONAL
ENGINEER NUMBER 082-049131
LICENSE EXPIRES 11-30-07

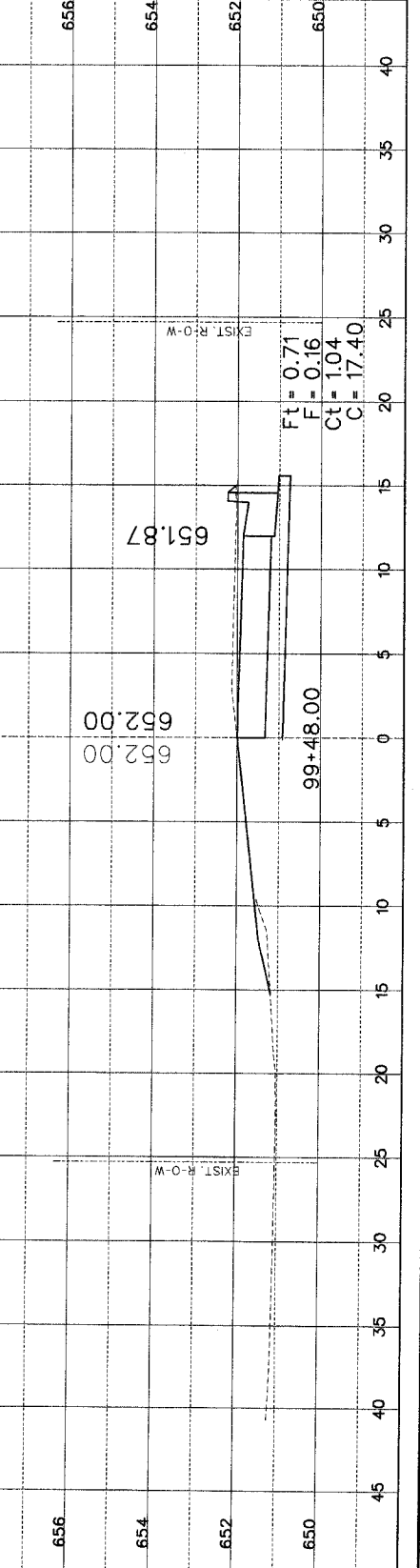
PLAN

DATE	BY	SURVEYED	PLOTTED	CHECKED	DATE
NOTE BOOK NO.		NOTE BOOK NO.		RT. OF WAY CHECKED	

PROFILE

DATE	BY	SURVEYED	PLOTTED	CHECKED	DATE
NOTE BOOK NO.		NOTE BOOK NO.		STRUCTURE NOTATIONS CHECKED	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	31
STA.		TO STA.		45
F.H.W.A. REG.	ILLINOIS	PROJECT	650	45



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 $F = 0.16$
 $Ct = 104$
 $C = 17.40$

$Ft = 0.56$
 $F = 0.81$
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 $C = 39.70$

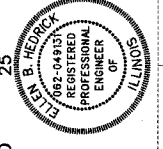
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NO.	AREA GROUP	DATE

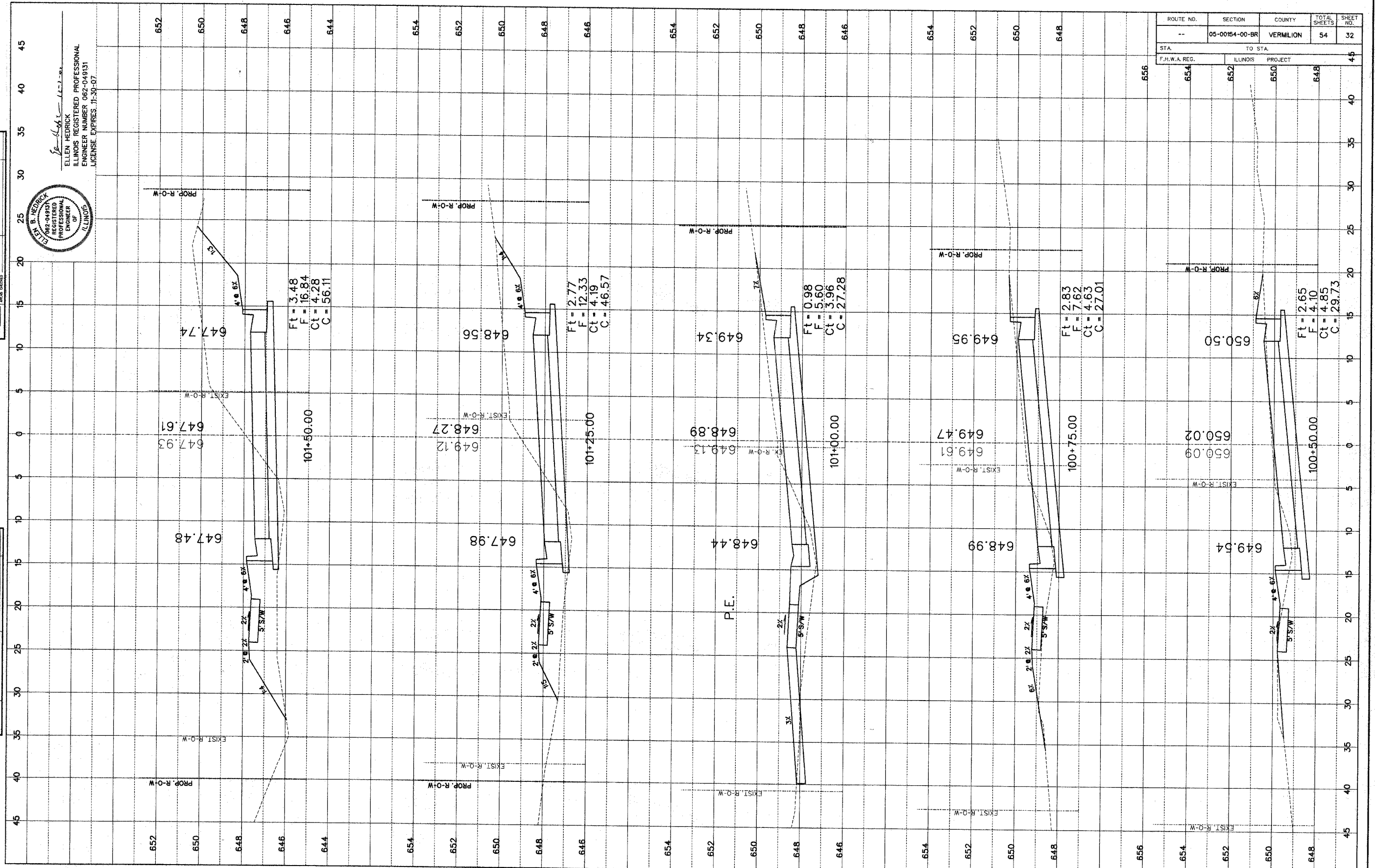
12-7-06
 ELLEN HEDRICK
 REGISTERED PROFESSIONAL
 ENGINEER NUMBER 062-049131
 LICENSE EXPIRES 11-30-07



NO.	AREA GROUP	DATE

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	32
STA.	TO STA.			
F.H.W.A. REG.	ILLINOIS	PROJECT	648	48



ELLEN HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL ENGINEER
 LICENSE NUMBER 062-049131
 LICENSE EXPIRES 11-30-07

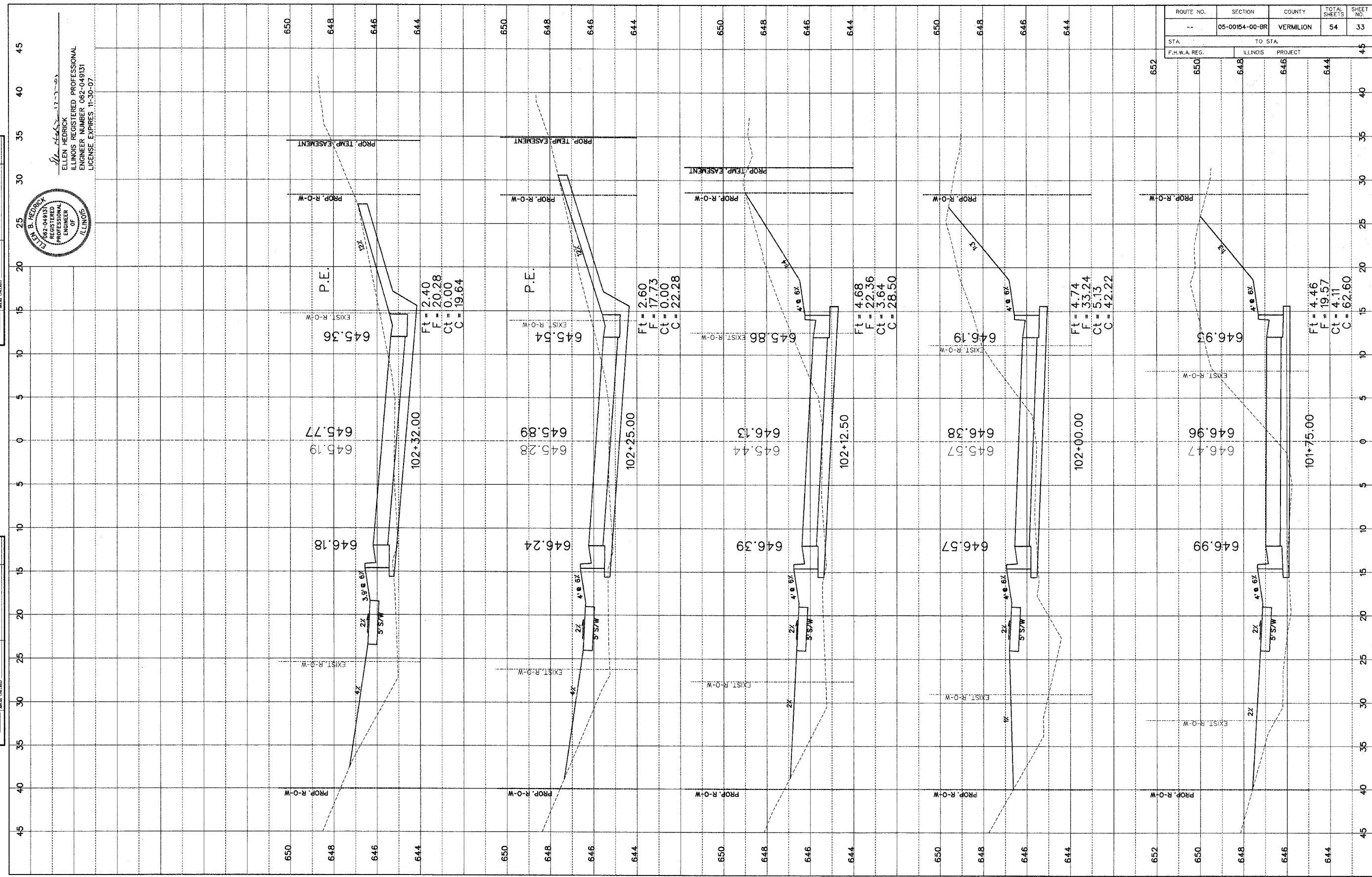


FINAL SURVEY	DATE
SWAYED	
NOTED	
NOTE BOOK NO.	
DATE	

ORIGINAL SURVEY	DATE
SWAYED	
NOTED	
NOTE BOOK NO.	
DATE	

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
05-00154-00-BR	VERMILION	VERMILION	54	33
STA.	TO STA.			
650	648	646	644	45
F.H.W.A. REG.		ILLINOIS	PROJECT	



ELLEN HEDRICK
REGISTERED PROFESSIONAL ENGINEER
ILLINOIS LICENSE NUMBER 062-049151
LICENSE EXPIRES 11-30-07



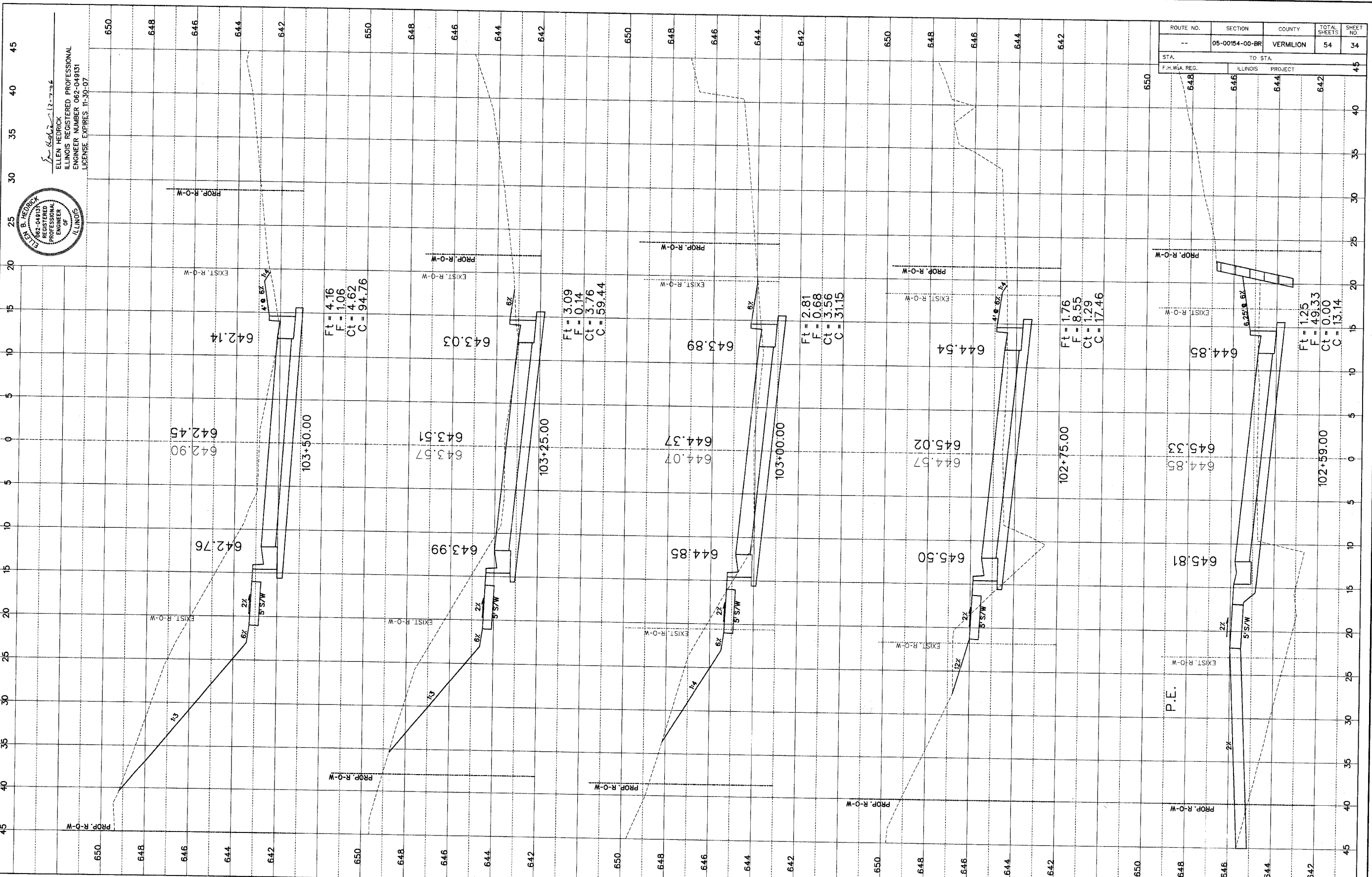
DATE	
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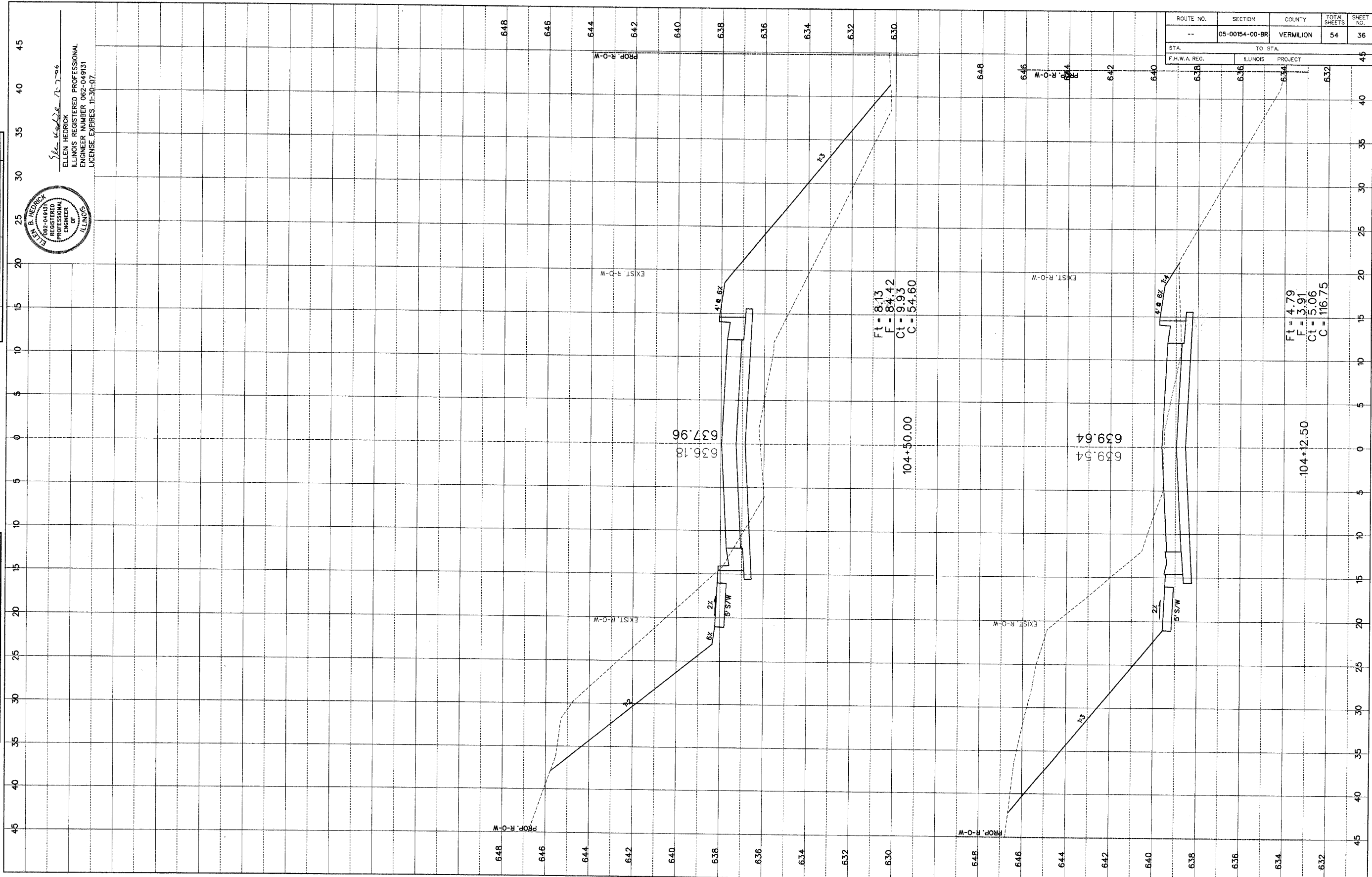


ELLEN HEDRICK
REGISTERED PROFESSIONAL ENGINEER
ILLINOIS
LICENSE NO. 062-049181
LICENSE EXPIRES 11-30-07

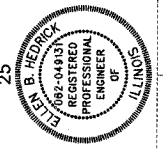
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	05-00154-00-BR	VERMILION	54	34
STA.	TO STA.			
F.H.W.A. REG.	ILLINOIS	PROJECT	642	45

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	36
STA. TO STA.		45		
F.H.W.A. REG. ILLINOIS PROJECT		45		



5/16/06
 ELLEN HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL
 ENGINEER NUMBER 062-049131
 LICENSE EXPIRES 11-30-07



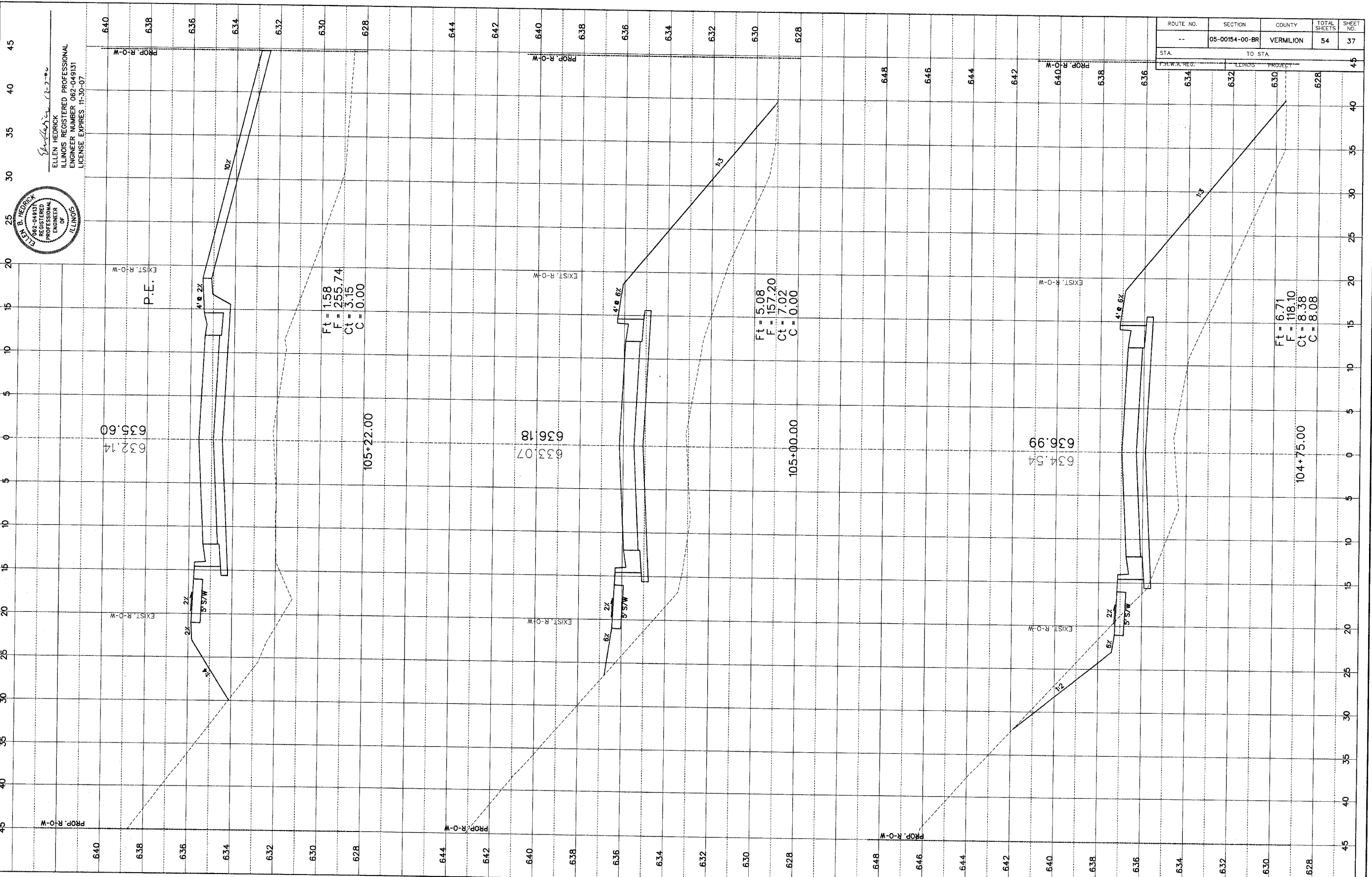
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DATE	BY
NO. 1	DATE
NO. 2	DATE
NO. 3	DATE
NO. 4	DATE
NO. 5	DATE

ORIGINAL SURVEY	
DATE	BY
NO. 1	DATE
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NO. 3	DATE
NO. 4	DATE
NO. 5	DATE

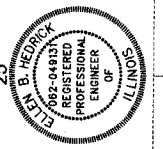
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FINAL SURVEY
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 BY _____

ORIGINAL SURVEY
 DRAWING NO. _____
 DATE _____
 BY _____



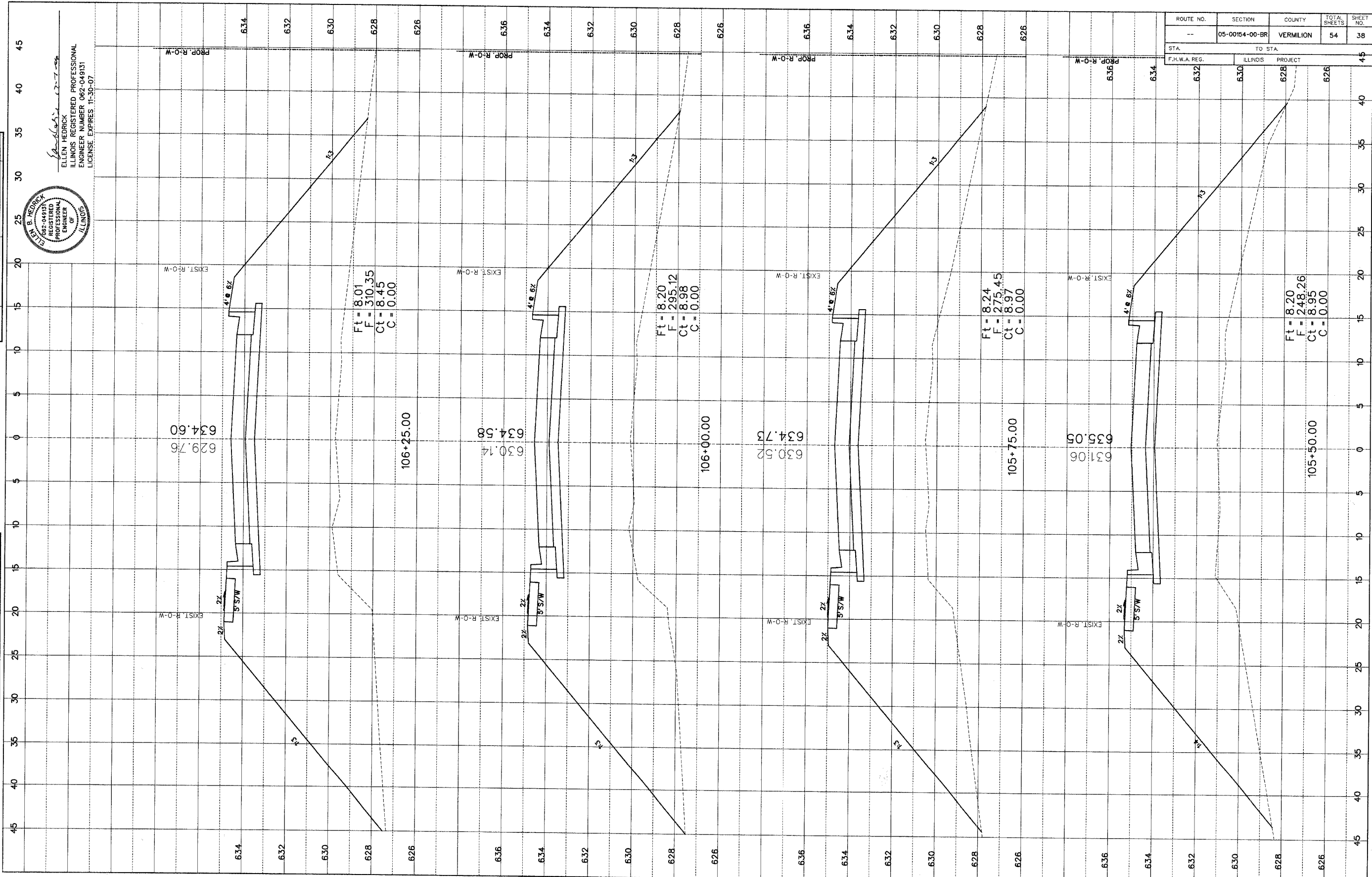
ELLEN HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL ENGINEER
 LICENSE NUMBER 062-049131
 LICENSE EXPIRES 11-30-07



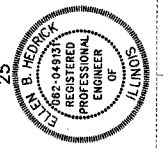
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--	05-00154-00-BR	VERMILION	54	37
STA.	TO STA.			
634	632			45

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	38
STA. TO STA.		ILLINOIS PROJECT		
F.H.W.A. REG.		ILLINOIS PROJECT		



ELLEN HEDRICK
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 ENGINEER NUMBER 062-049131
 LICENSE EXPIRES 11-30-07

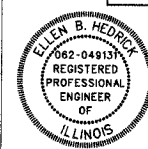


NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

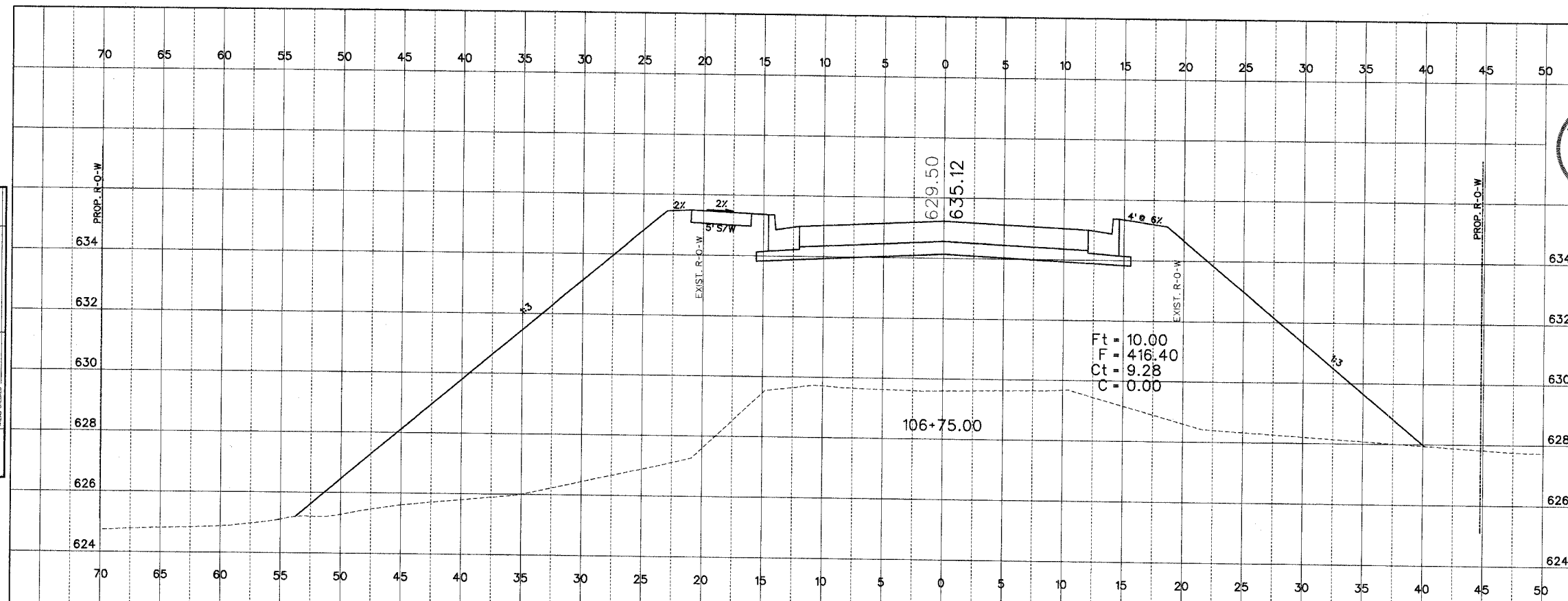
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	39
STA.		TO STA.		
F.H.W.A. REG.		ILLINOIS PROJECT		

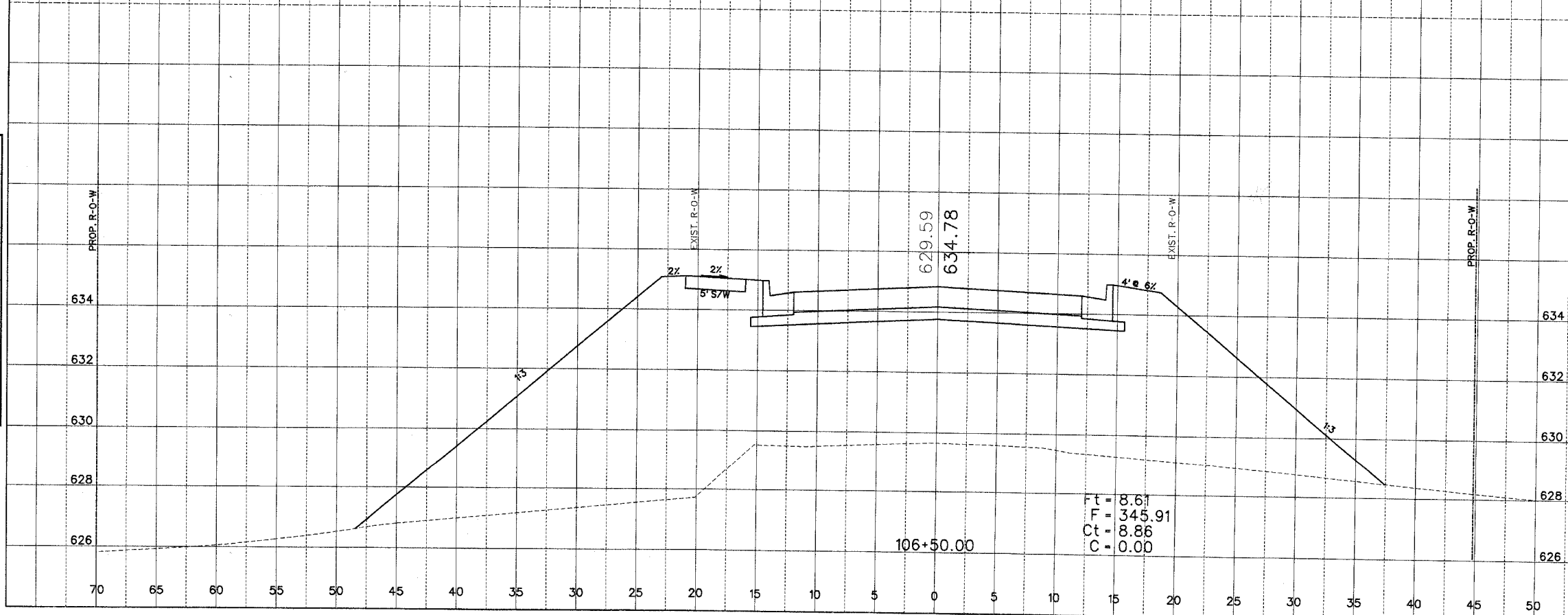


Ellen B. Hedrick 12-7-07
 ELLEN B. HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL
 ENGINEER NUMBER 062-049131
 LICENSE EXPIRES 11-30-07

DATE _____ BY _____
 FINAL SURVEY
 SHEET NO. _____
 NOTE BOOK NO. _____
 FIELD CHECKED _____



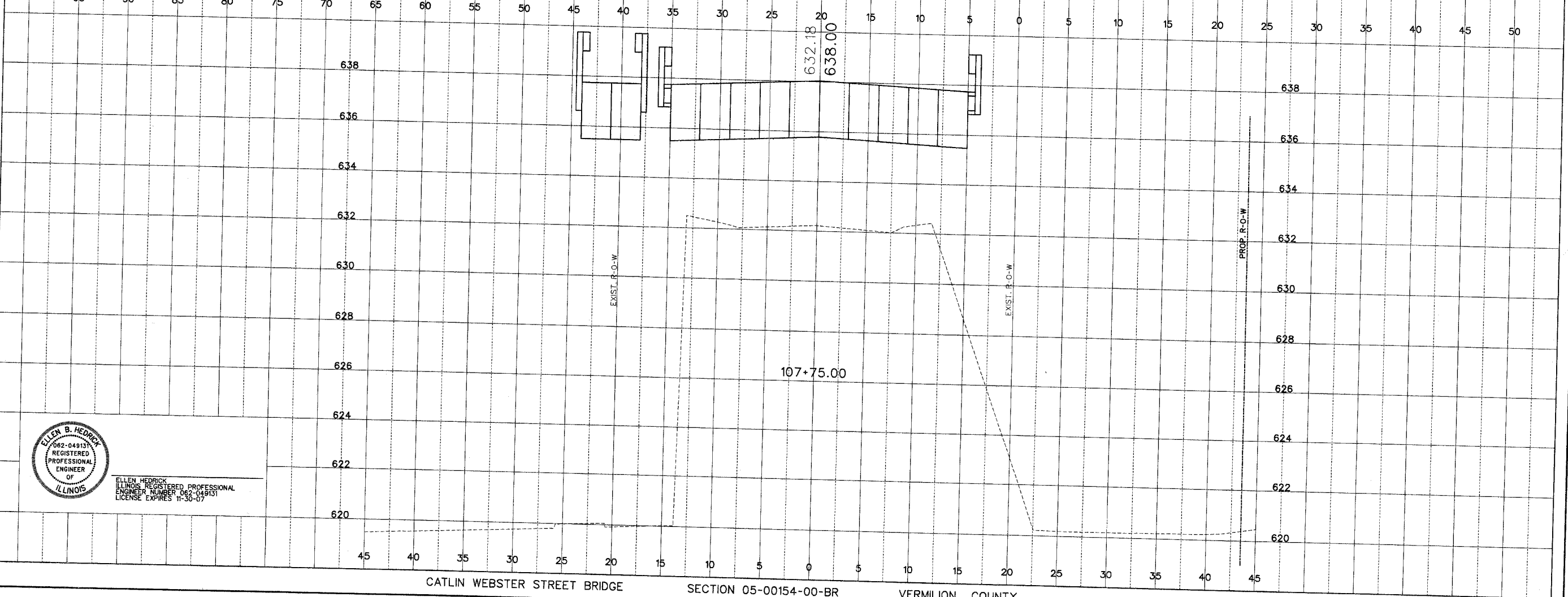
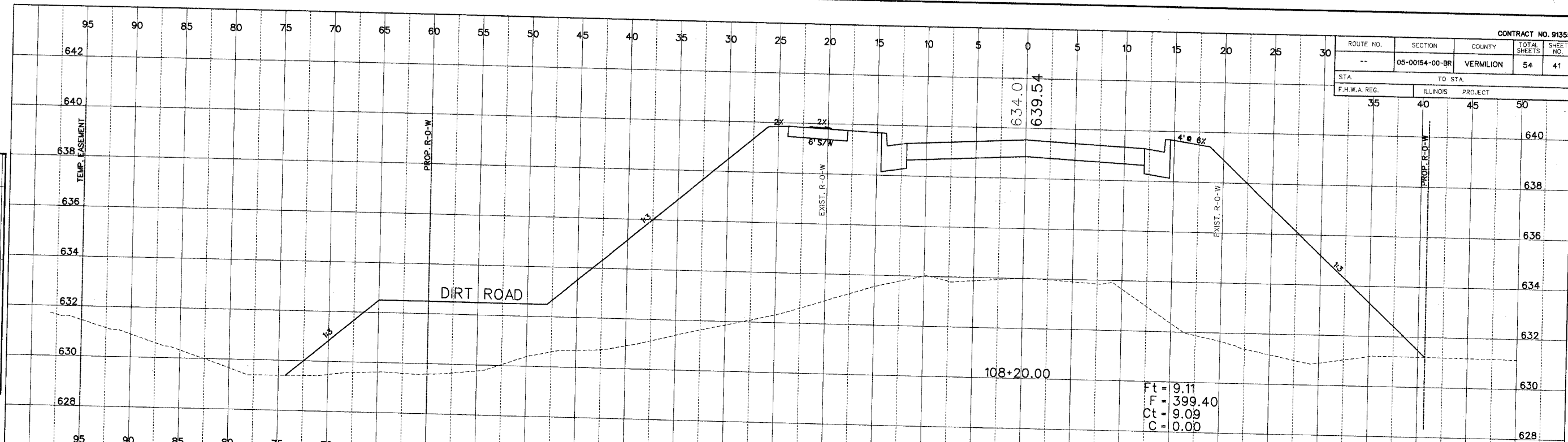
DATE _____ BY _____
 ORIGINAL SURVEY
 SHEET NO. _____
 NOTE BOOK NO. _____
 FIELD CHECKED _____



CATLIN WEBSTER STREET BRIDGE SECTION 05-00154-00-BR VERMILION COUNTY

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	41
STA		TO STA		
F.H.W.A. REG.		ILLINOIS	PROJECT	
	35	40	45	50



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 NOTE BOOK _____
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 RT. OF WAY CHECKED _____

PROFILE
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 PLOTTED _____
 NOTE BOOK _____
 GRADES CHECKED _____
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 STRUCTURE INDICATING CHORD _____



ELLEN B. HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL
 ENGINEER NUMBER 062-049131
 LICENSE EXPIRES 11-30-07

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	43
STA.		TO STA.		
F.H.W.A. REG.		ILLINOIS PROJECT		
642	640	638	636	45

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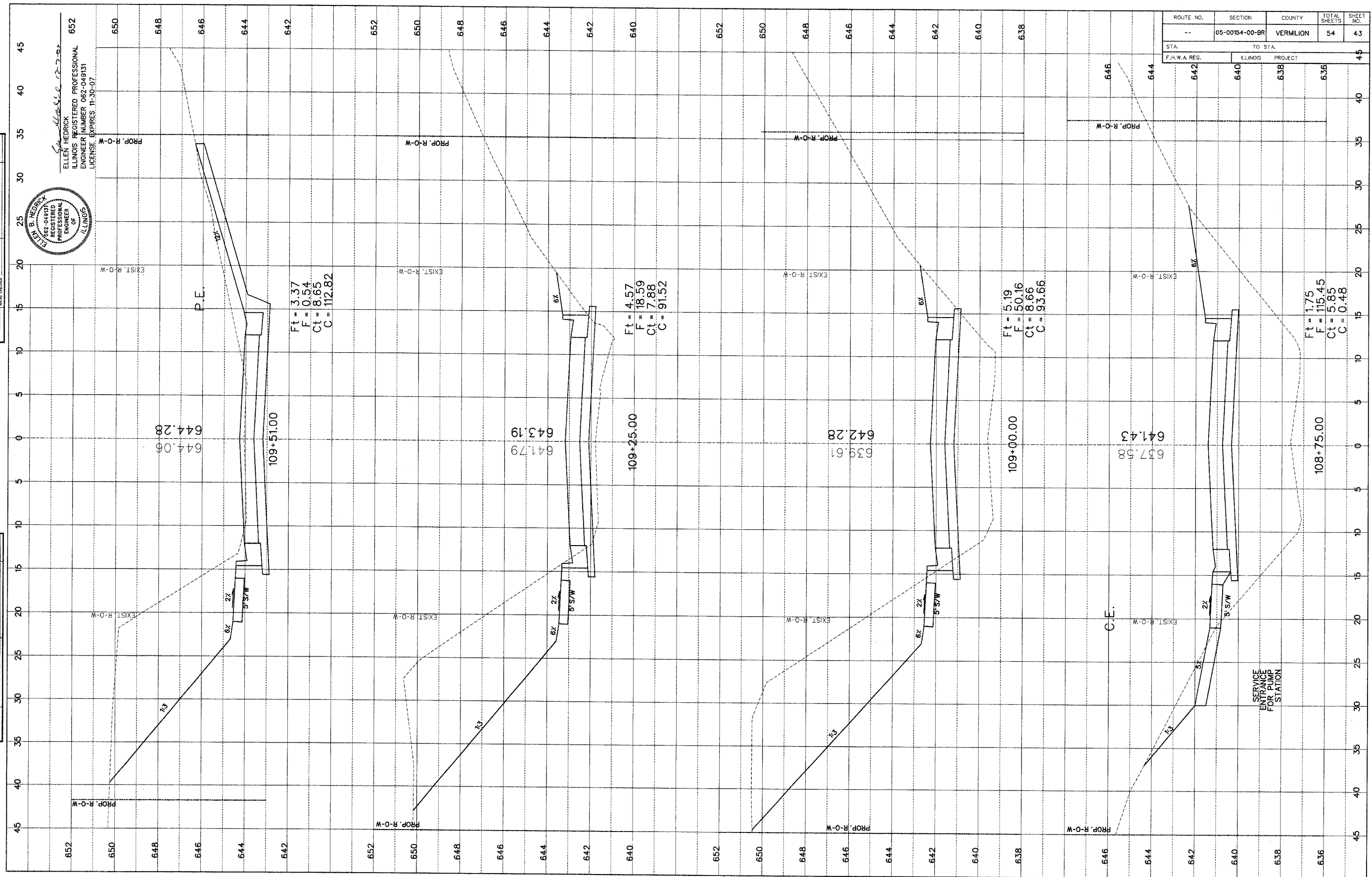
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109+25.00
109+00.00
108+75.00

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105057 Cross Section Sheets.dgn 12/6/2006 4:30:47 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	05-00154-00-BR	VERMILION	54	44
STA.	TO STA.			
F.H.W.A. REG.	ILLINOIS	PROJECT	644	45

ELLEN HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL
 ENGINEER NUMBER 062-049131
 LICENSE EXPIRES 11-30-07

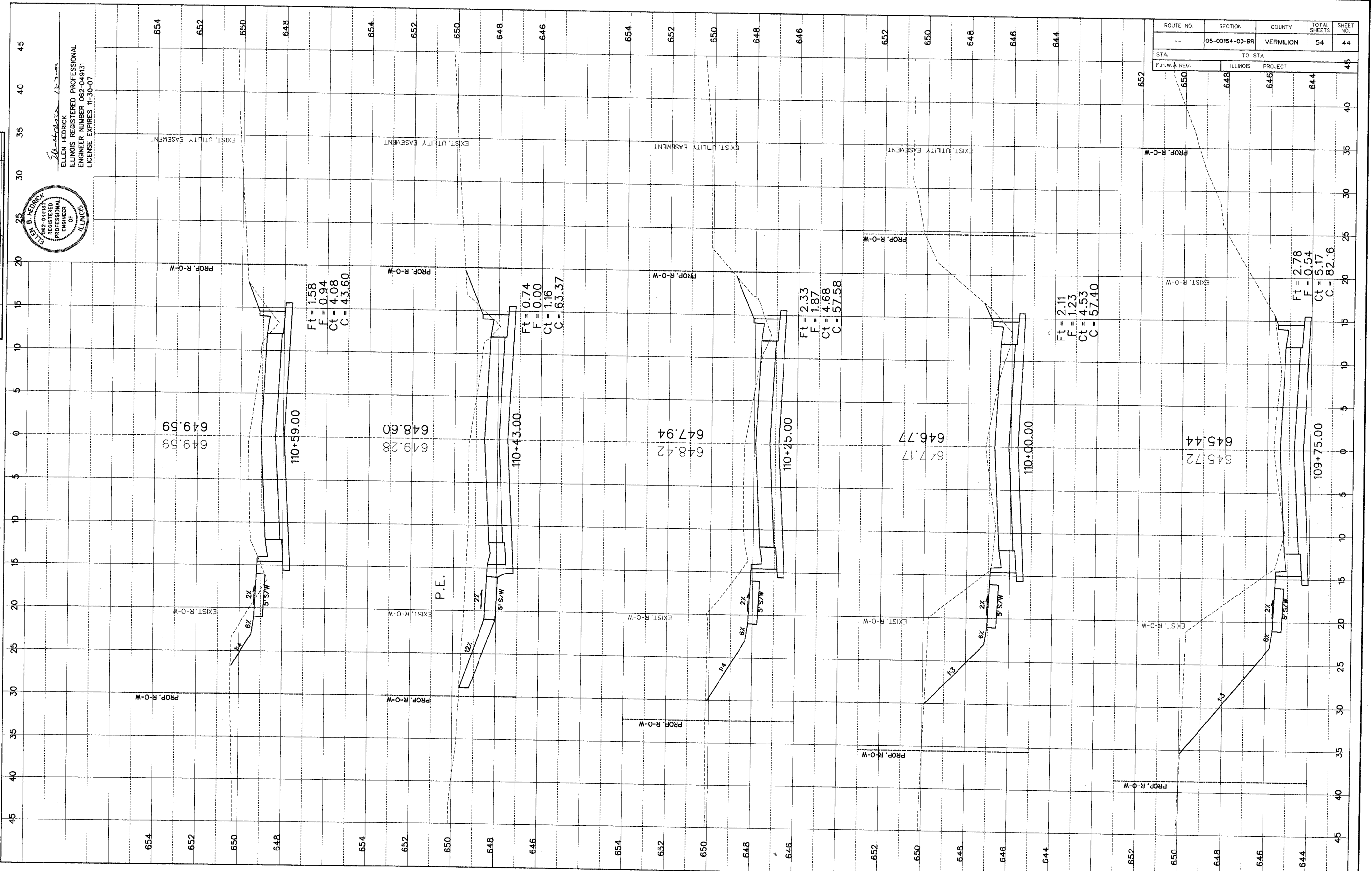


DATE	BY
DATE	BY

FINAL SURVEY
 SURVEYED PLOTTED
 NOTE BOOK NO. DATE
 NO. DATE

DATE	BY
DATE	BY

ORIGINAL SURVEY
 SURVEYED PLOTTED
 NOTE BOOK NO. DATE
 NO. DATE



Ft = 1.58
 F = 0.94
 Ct = 4.08
 C = 43.60

Ft = 0.74
 F = 0.00
 Ct = 1.16
 C = 163.37

Ft = 2.33
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 Ct = 4.68
 C = 57.58

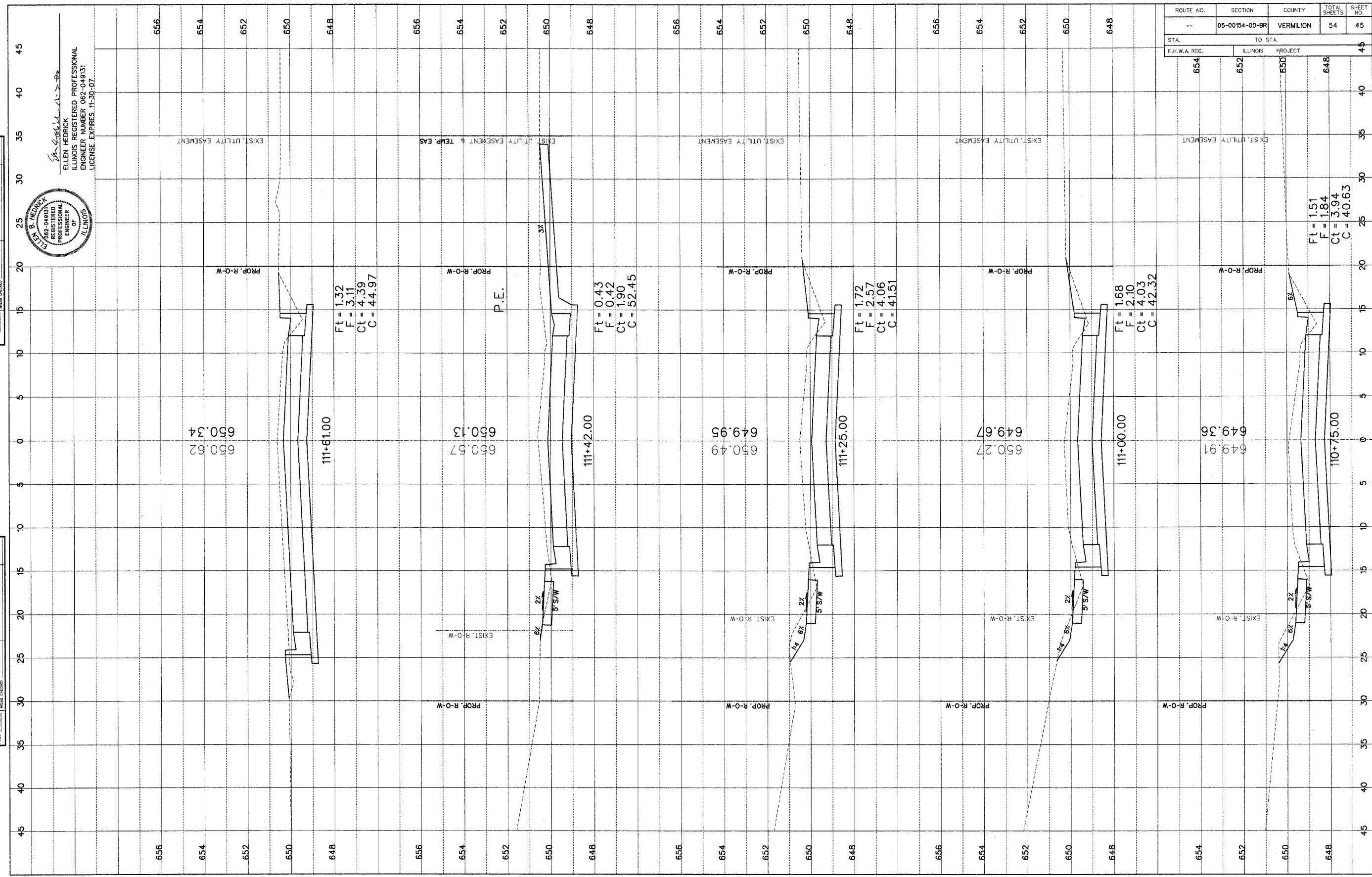
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 C = 57.40

Ft = 2.78
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CATLIN WEBSTER STREET BRIDGE SECTION 05-00154-00-BR VERMILION COUNTY

\\s057 Cross Section Sheets.dwg 12/6/2006 4:31:03 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	45
STA. TO STA.		F.H.W.A. REG. ILLINOIS PROJECT		
654	652	650	648	45



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F = 3.11
Ct = 4.39
C = 44.97

Ft = 0.43
F = 0.42
Ct = 1.90
C = 52.45

Ft = 1.72
F = 2.57
Ct = 4.06
C = 41.51

Ft = 1.68
F = 2.10
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C = 42.32

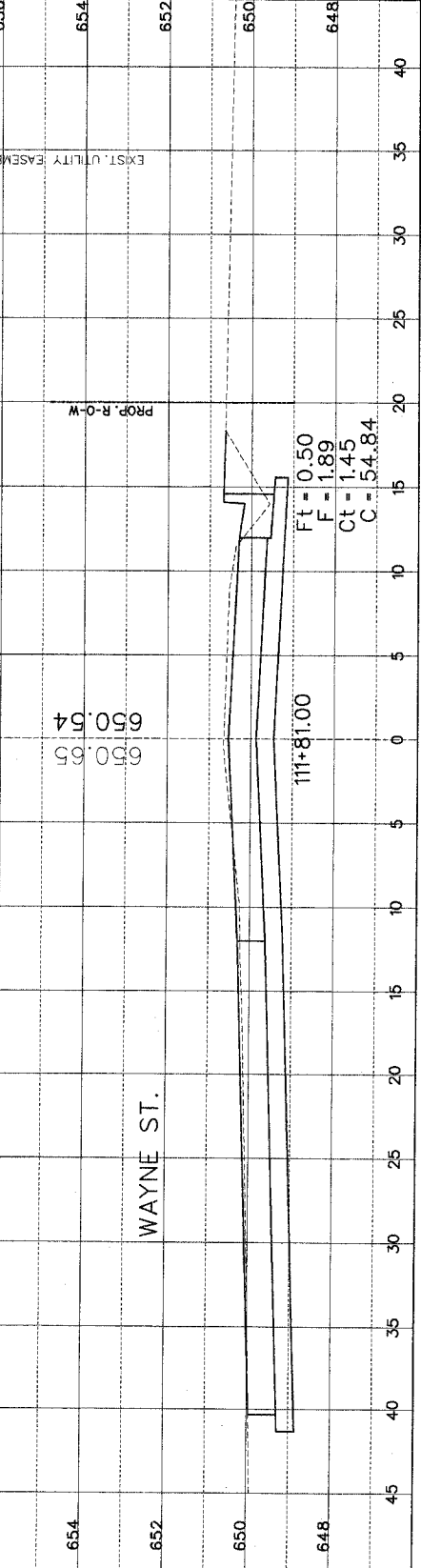
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FINAL SURVEY	DATE
REVISION	DATE
NOTE BOOK	NO.
FIELD BOOK	NO.

ORIGINAL SURVEY	DATE
REVISION	DATE
NOTE BOOK	NO.
FIELD BOOK	NO.

ELLEN HEDRICK
REGISTERED PROFESSIONAL ENGINEER
ILLINOIS
LICENSE NUMBER 062-049131
LICENSE EXPIRES 11-30-97

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	46
STA.	TO STA.			
F.H.W.A. REG.	ILLINOIS	PROJECT		
654	652	650	648	45



WAYNE ST.

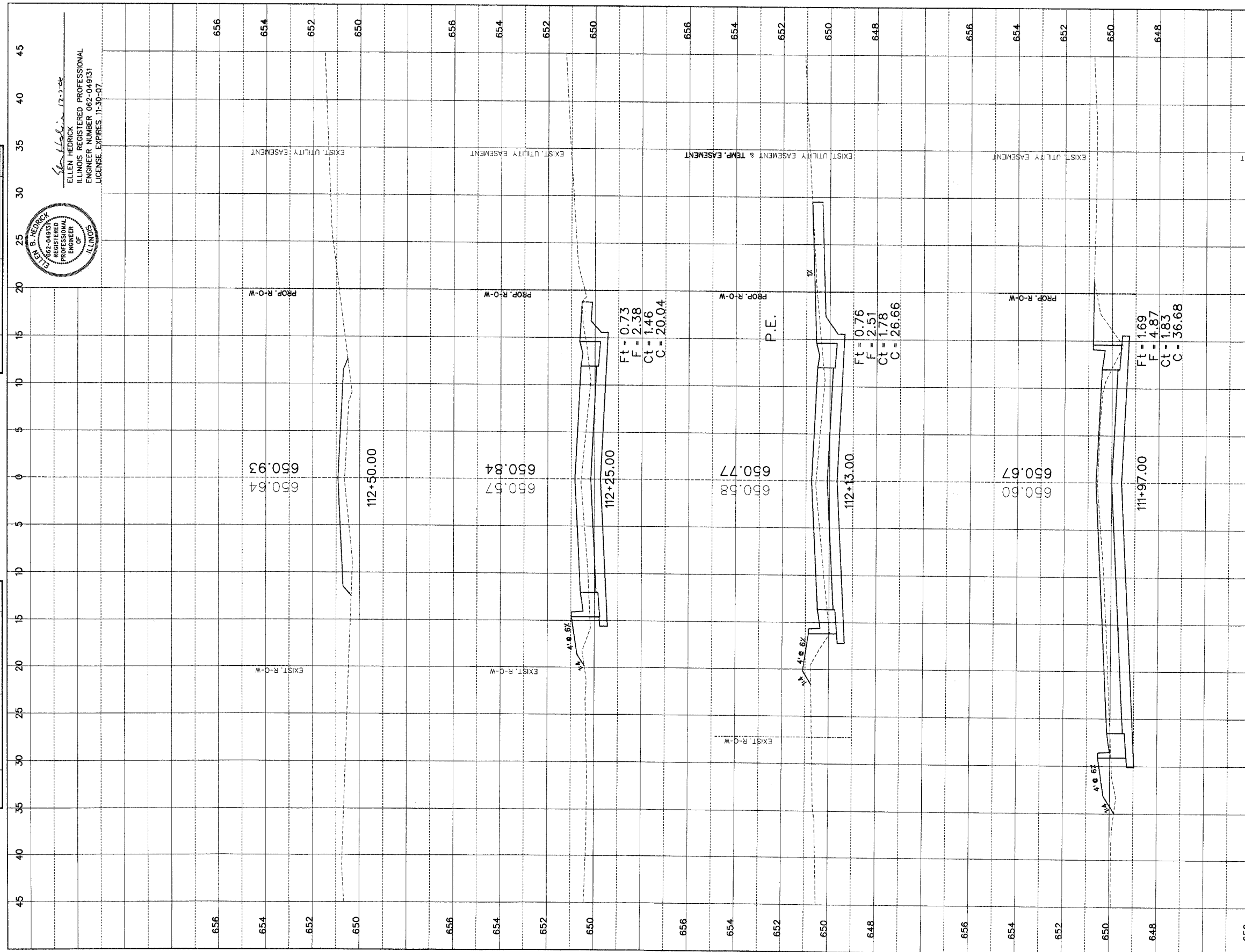
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 $F = 2.38$
 $Ct = 1.46$
 $C = 20.04$

$Ft = 0.76$
 $F = 2.51$
 $Ct = 1.78$
 $C = 26.66$

$Ft = 1.69$
 $F = 4.87$
 $Ct = 1.83$
 $C = 36.68$

$Ft = 0.50$
 $F = 1.89$
 $Ct = 1.45$
 $C = 54.84$

P.E.



CATLIN WEBSTER STREET BRIDGE SECTION 05-00154-00-BR VERMILION COUNTY

SHEET 46 OF 54 SHEETS 05057

FINAL SURVEY

DATE: _____ BY: _____

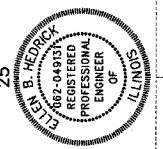
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ORIGINAL SURVEY

DATE: _____ BY: _____

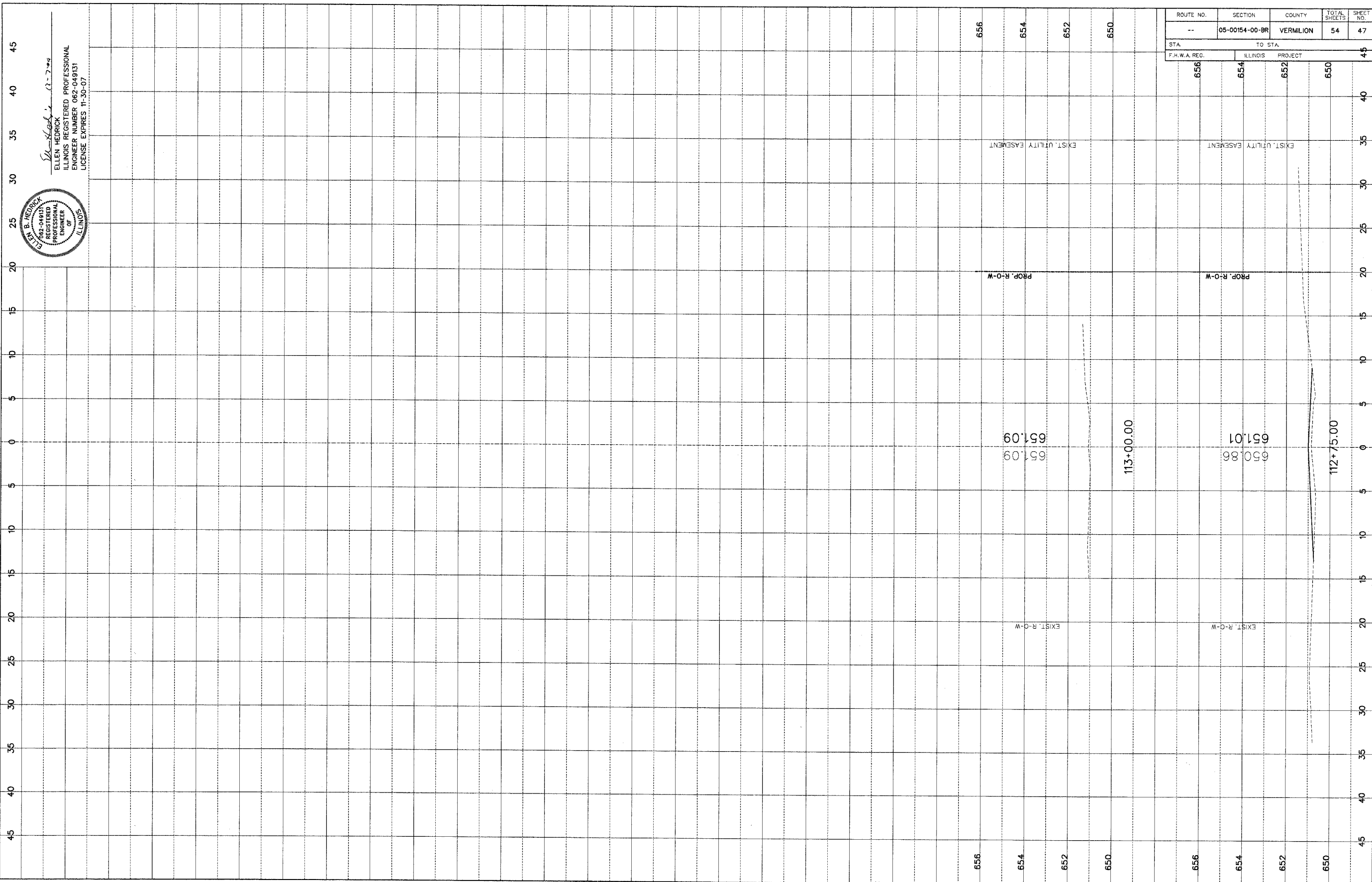
NO. _____

ELLEN HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL ENGINEER
 LICENSE NUMBER 062-049131
 LICENSE EXPIRES 11-30-07

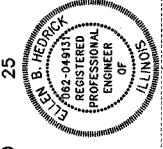


FINAL SURVEY
 DRAWING NO. _____
 DATE _____
 BY _____
 CHECKED _____
 DATE _____

ORIGINAL SURVEY
 DRAWING NO. _____
 DATE _____
 BY _____
 CHECKED _____
 DATE _____



Ellen Hedrick
 ELLEN HEDRICK
 ILLINOIS REGISTERED PROFESSIONAL
 ENGINEER NUMBER 062-049131
 LICENSE EXPIRES 11-30-07



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	05-00154-00-BR	VERMILION	54	47

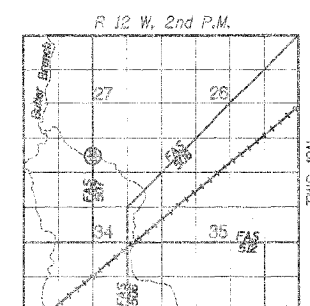
STA.	TO STA.	F.H.W.A. REC.	ILLINOIS PROJECT
656	650		

...\\05057 Cross Section Sheets.dgn 12/5/2006 5:19:04 PM

Existing Structure: Cast-in-place concrete box culvert, 9.95' wide by 12.40' tall with cast-in-place concrete wingwalls.

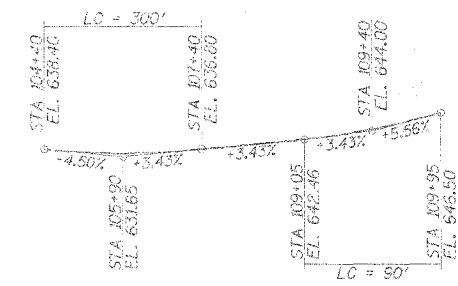
ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL
FAS 507	*	Vermilion	54	48

*05-00154-00-BR



LOCATION SKETCH

Drainage Area	2.81 Sq. Mi.
Existing Opening (30 Yr.)	56.2 Sq. Ft.
Required Opening (30 Yr.)	131.2 Sq. Ft.
Proposed Opening (30 Yr.)	132.7 Sq. Ft.
Design Discharge (30 Yr.)	634.7 C.F.S.
Computed Discharge (100 Yr.)	823.9 C.F.S.
30 Yr. Head	0.00 Ft.
100 Yr. Head	0.00 Ft.



PROFILE GRADE

DESIGN SPECIFICATIONS

- AASHTO (2002) & applicable Interims
- DESIGN LOADING: HS 20-44, 2.5 P.S.F. Future Wearing Surface
- DESIGN STRESSES:
 - $f'_c = 3,500$ psi (Cast-in-Place Concrete)
 - $f'_c = 5,000$ psi (P.P.C. Units)
 - $f_{ci} = 4,000$ psi (P.P.C. Units)
 - $f_y = 60,000$ psi (Reinforcement)
 - $f_s = 270,000$ psi ($\frac{1}{2}$ " ϕ Strands)
 - $f_{sj} = 201,960$ psi ($\frac{1}{2}$ " ϕ Strands)

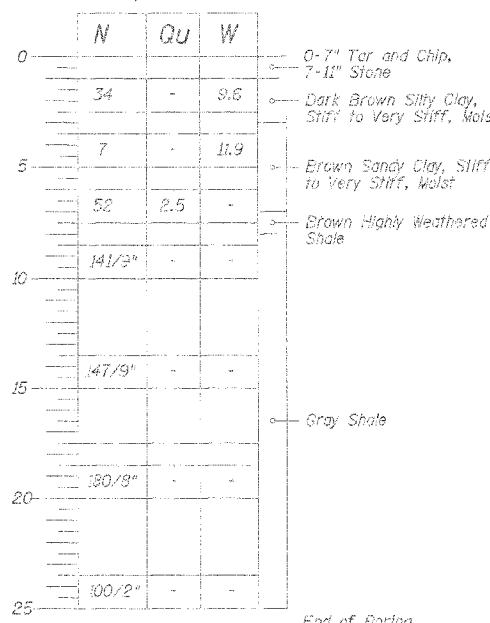
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yds.		20	20
Concrete Structures	Cu. Yds.		60.3	60.3
Precast Prestressed Concrete Deck Beams (27" Deep)	Sq. Ft.	2390		2390
Steel Rolling, Type SM	Foot	132		132
Pedestrian Railing	Foot	137		137
Reinforcement Bars	Pounds		3640	3640
Test Piles, Steel HP10x42	Each	2		2
Pile Shoes	Each	14		14
Home Plates	Each	1		1
Waterproofing Membrane System	Sq. Yds.	221		221
Furnishing Steel Piles HP 10x42	Foot		168	168
Driving Piles	Foot		168	168
Grouned Riprap	Sq. Yds.		548	548
Conc. Cut-off Wall	Cu. Yds.		7.6	7.6
Controlled Low-Strength Material	Cu. Yds.		102	102

BORING B-1

Location: STA 107+26, 5' RT., Elev. 630.7

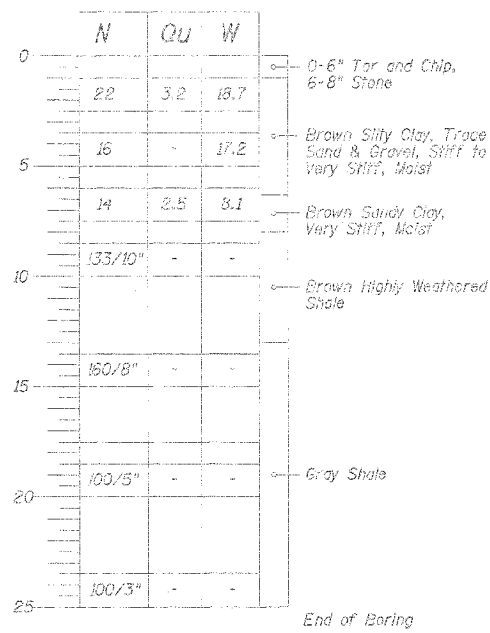
Water Levels: While Drilling: Below Depth of Boring At Completion: -



BORING B-3

Location: STA 108+19, 5' RT., Elev. 633.9

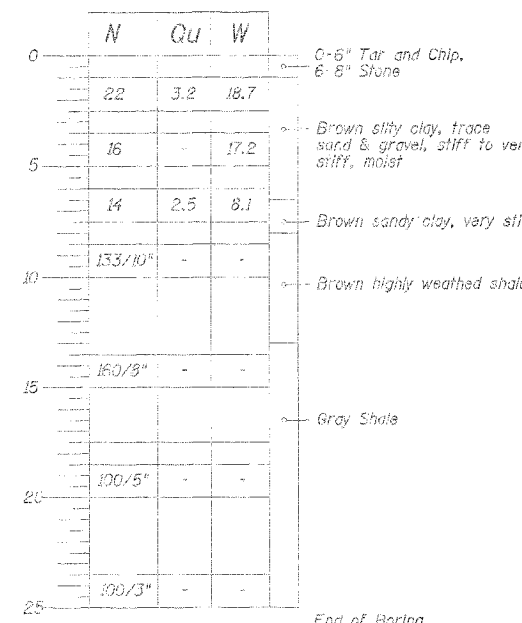
Water Levels: While Drilling: Below Depth of Boring At Completion: -



BORING B-2

Location: STA 107+60, 4' LT., Elev. 631.3

Water Levels: While Drilling: Below Depth of Boring At Completion: -

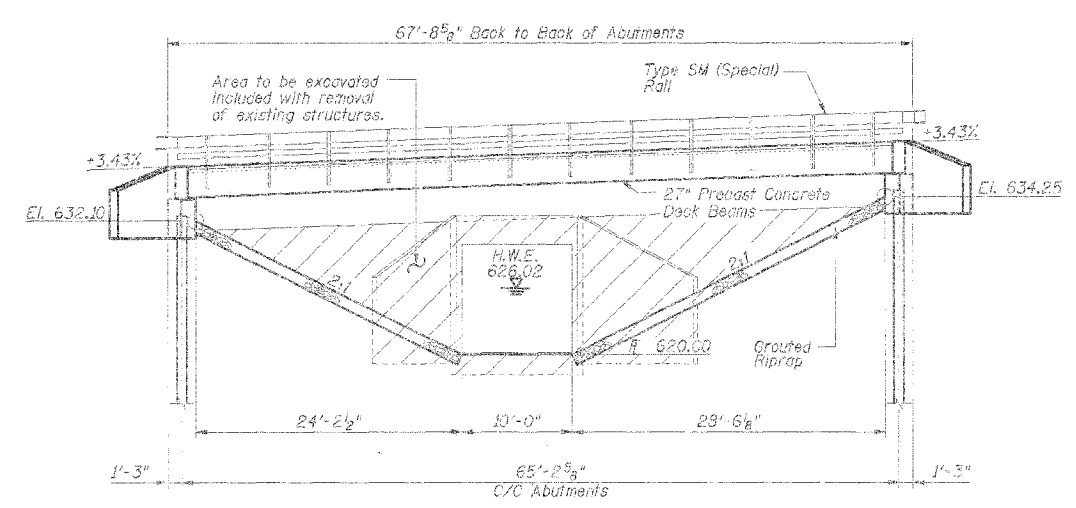


BORING DATA

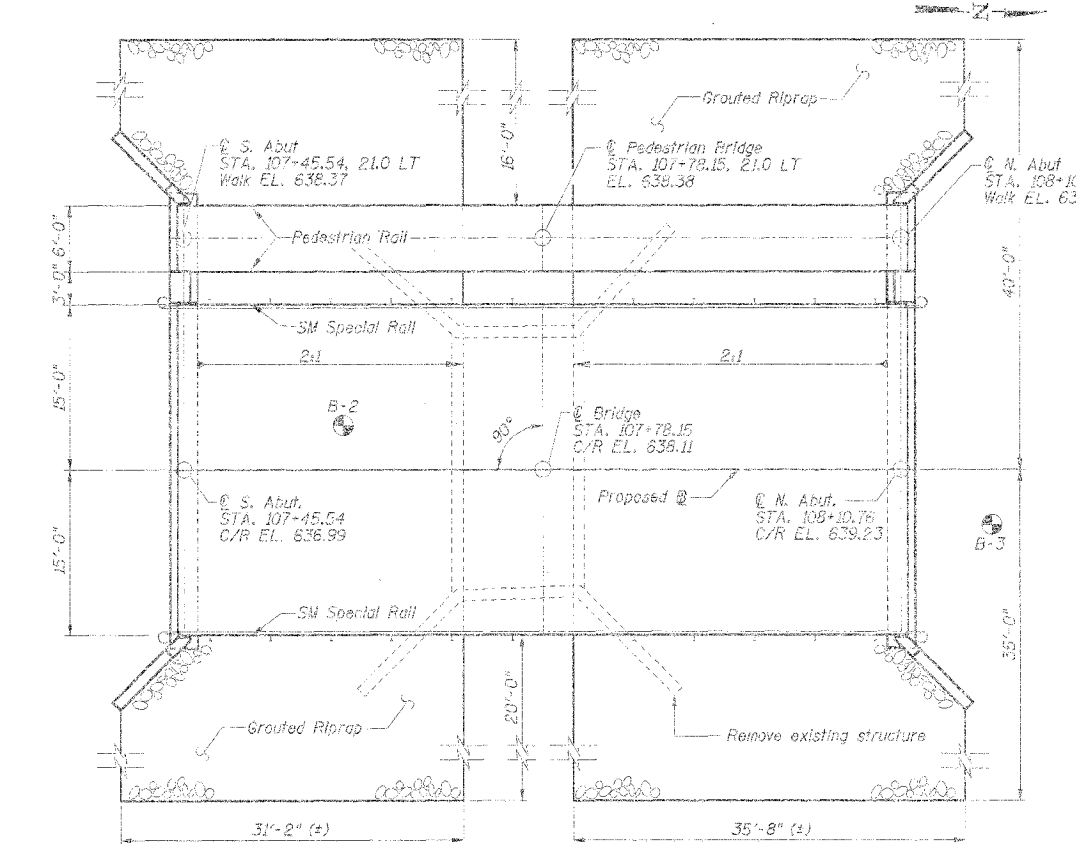
N - Standard Penetration Test - Blows per foot to drive 2" O.D. split spoon sampler 12" with 140 lb. hammer falling 30".
 Qu - Unconfined Compressive Strength - Tone/Sq. Ft.
 W - Water Content - Percentage of oven dry weight - %
 S - Buice Failure, V - Shear Failure, S - Splitting Failure
 E - Estimated Value
 *Boreholes caved at a depth of approximately 15.5' upon completion

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of AASHTO M31, M42 or M53 Grade 60.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- The Contractor shall drive 1 steel test pile in a permanent location at each abutment as directed by the Engineer before ordering the remainder of piles.
- Boring data is shown only as a guide to bidders in estimating soil conditions which may be encountered during construction.
- Class SI or MS Concrete shall be used in the abutments.



ELEVATION



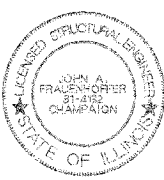
PLAN

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

John A. Fraunhoffer
 JOHN A. FRAUENHOFFER
 Illinois Licensed Structural Engineer Number 4192
 License Expires 11/30/06

STRUCTURE NO. 092-C040
 SEC. 05-00154-00-BR BUILT 200...
 FAU 7060/FAS 507
 VILLAGE OF CATLIN/VERMILION COUNTY
 LOADING HS-20-44

NAME PLATE
 See Standard B15001



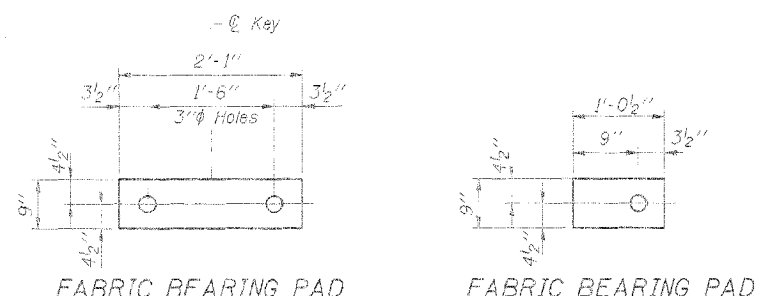
DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	A. Fraunhoffer				
APVD	A. Fraunhoffer	NO.	DATE	REVISION	BY

FRAUENHOFFER
 Fraunhoffer and Associates, P.C. Consulting Engineers
 3002 Crossing Court Champaign, IL 61822 217-351-6268

GENERAL PLAN AND ELEVATION		SHEET 48
VILLAGE OF CATLIN SECTION 05-00154-00-BR VERMILION COUNTY		DATE AUG 2006
		PROJ NO. 5022

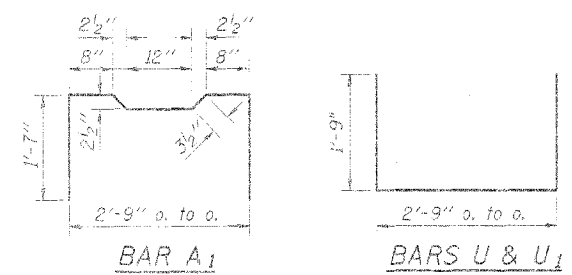
ROUTE NO.	DISTRICT	TOWNSHIP	SHEET	TOTAL
FAS 507	Vermilion	54	49	

*05-00154-00-R



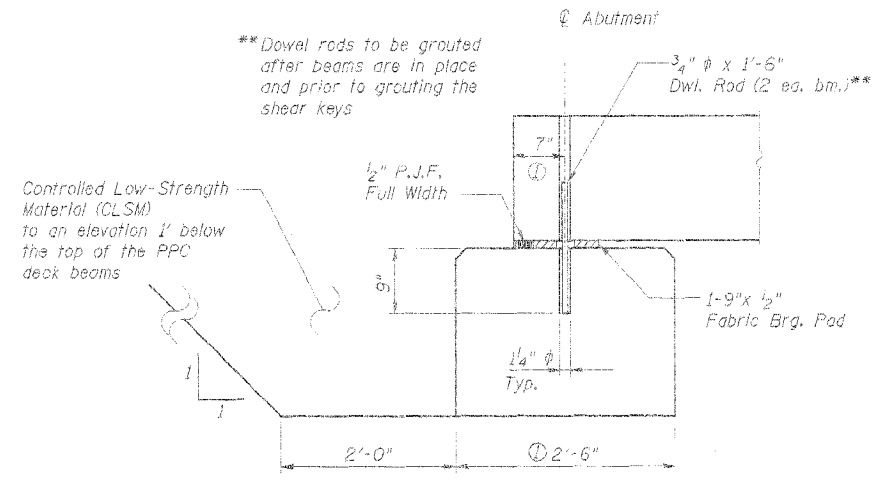
FABRIC BEARING PAD

FABRIC BEARING PAD



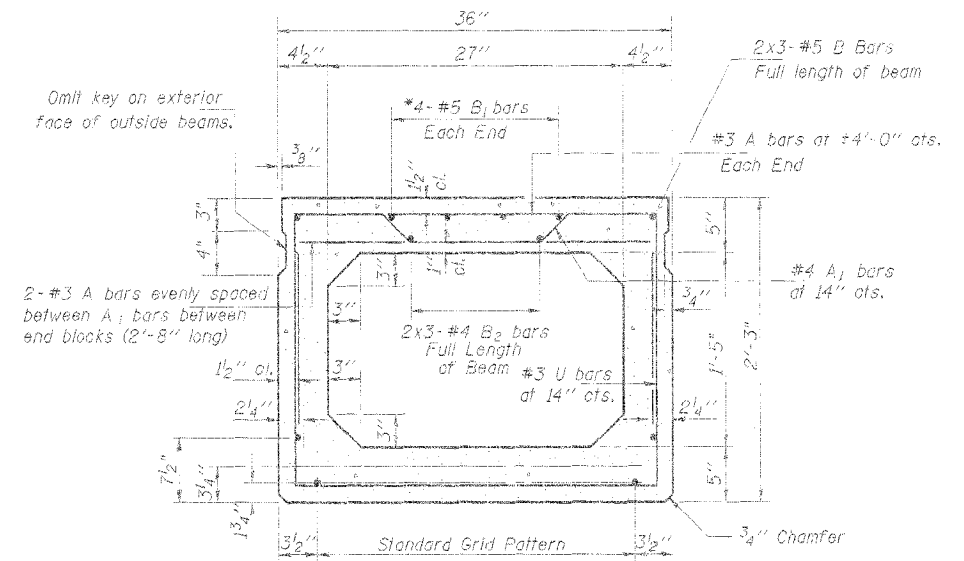
BAR A1

BARS U & U1



SECTION AT ABUTMENT

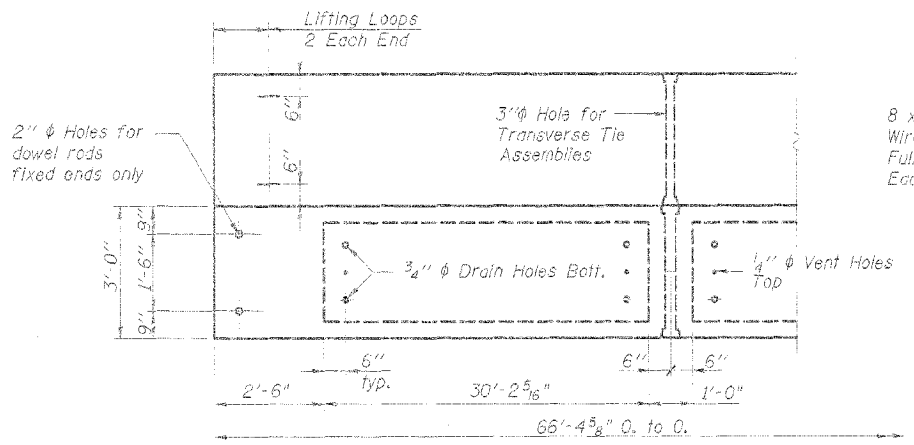
⊙ Perpendicular to C of abutment.



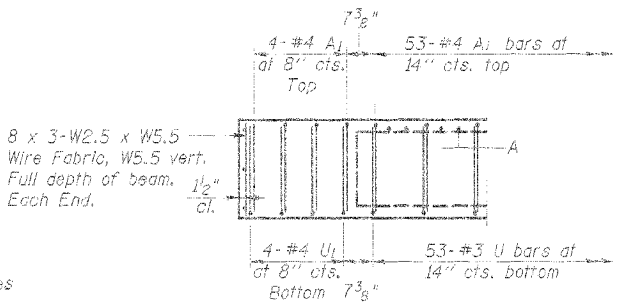
TYPICAL SECTION

17-1/2" φ Strands Each Strand Stressed to 30,900 Lbs.
8-Strands 1 3/4" up, 5-Strands 3 1/4" up,
2-Strands 7 1/2" up, 2-Strands 10 1/2" up

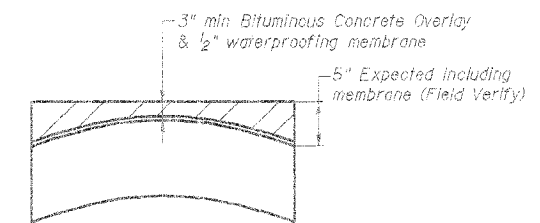
Note: Place strands symmetrically about C of beam.



PLAN

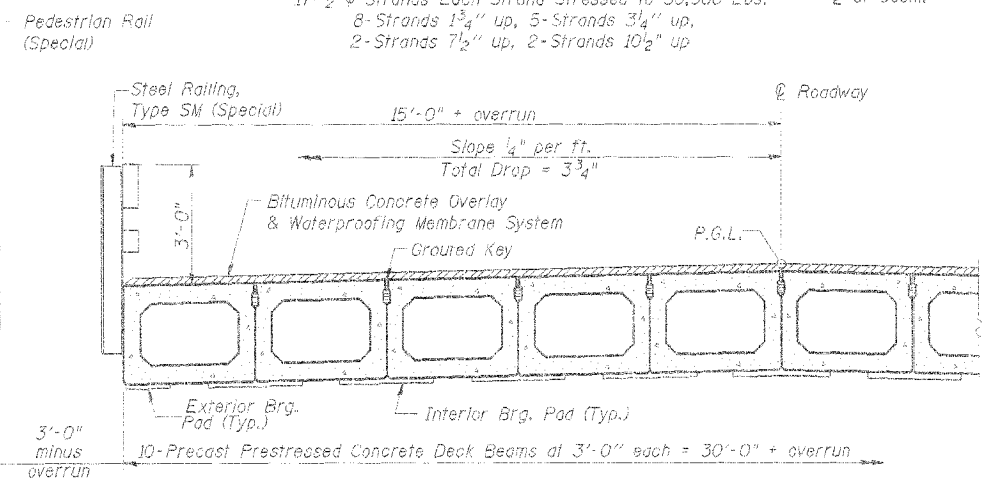


END ELEVATION



CAMBER DIAGRAM

Along Center of Beams on Roadway Bridge Only



PARTIAL CROSS SECTION

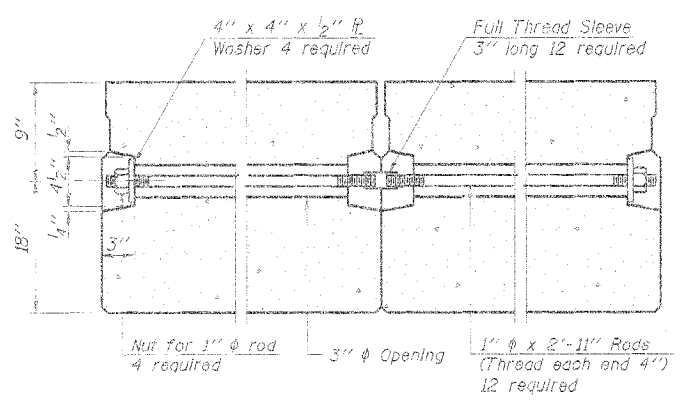
NOTES

Prestressing steel shall be uncoated high strength, stress-relieved 7-wire strand, Grade 270. Lifting loops shall be 3/4" diameter, 6x25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs. or 3-1/2" φ-270 ksi strands, as shown. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" φ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4000 p.s.i. An equal substitution of the low-relaxation strands for the stress-relieved strands will be permitted.

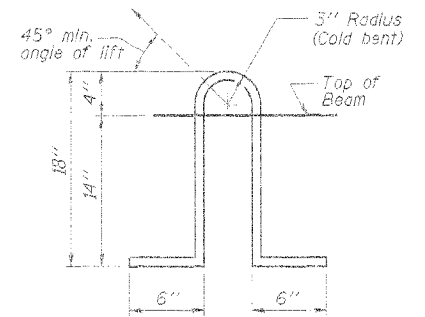
BILL OF MATERIAL (One Beam)

Bar	No.	Size	Length	Shape
A	108	#3	2'-8"	—
A1	61	#4	6'-1"	—
B	6	#5	24'-0"	—
B1	8	#5	13'-4"	—
B2	6	#4	23'-6"	—
U	53	#3	6'-3"	—
U1	8	#4	6'-3"	—
Precast Prestressed Conc. Deck Bms.			Sq. Ft.	2,390*

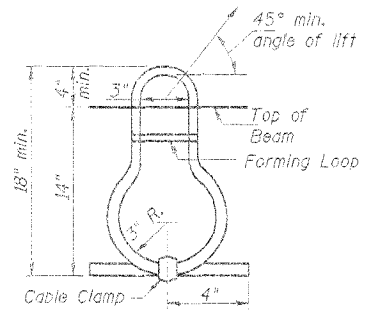
*Total Quantity of Beams



TYPICAL TRANSVERSE TIE ASSEMBLY



LIFTING LOOP DETAIL



LIFTING LOOP ALTERNATE

PD-5-R 1-15-04

DESIGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHECKED	A. Fraunhoffer				
APPROVED	A. Fraunhoffer	NO.	DATE	REVISION	BY

FRAUENHOFFER

Fraunhoffer and Associates, P.C. Consulting Engineers
3002 Crossing Court Champaign, IL 61822 217-351-6258

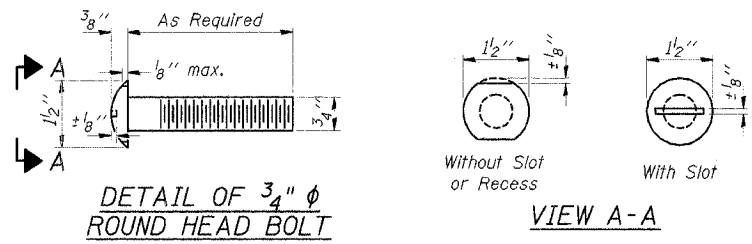
SUPERSTRUCTURE DETAILS

VILLAGE OF CATLIN
SECTION 05-00154-00-R
VERMILION COUNTY

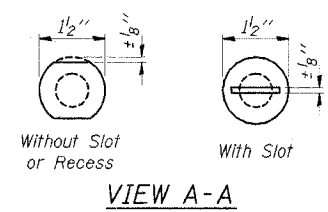
SHEET	49
DWG NO.	522-SUP-006
DATE	FEB 2006
PROJ NO.	5022

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL
FAS 507	*	Vermilion	54	50
FAS 507		Vermilion		54
FAS 507		Vermilion		54

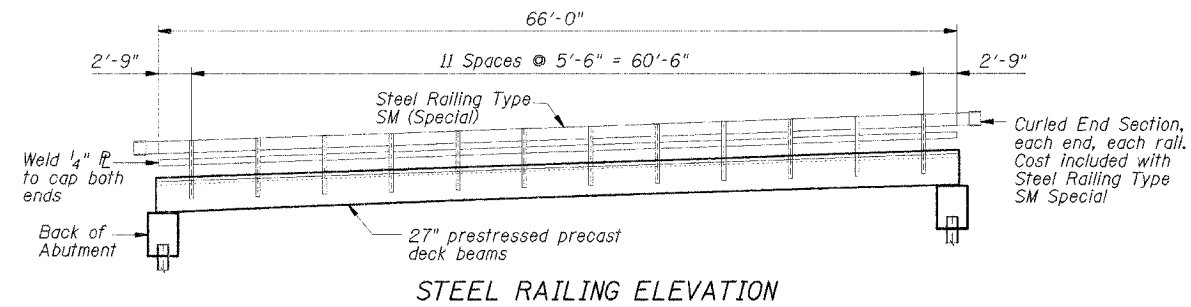
*05-00154-00-BR



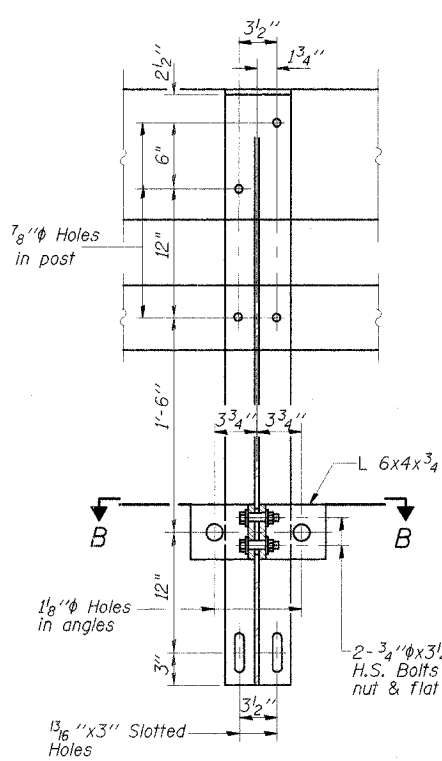
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



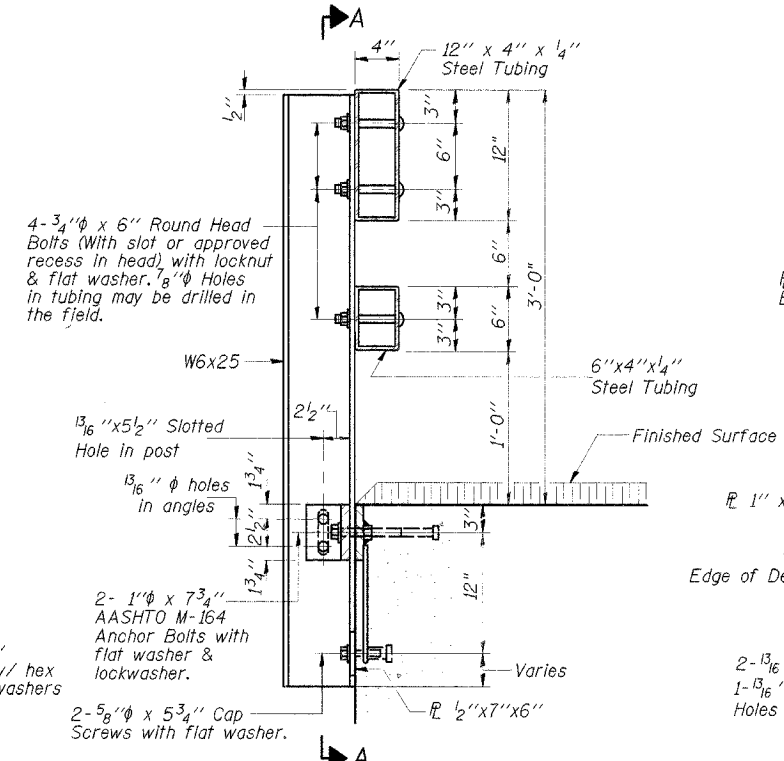
VIEW A-A



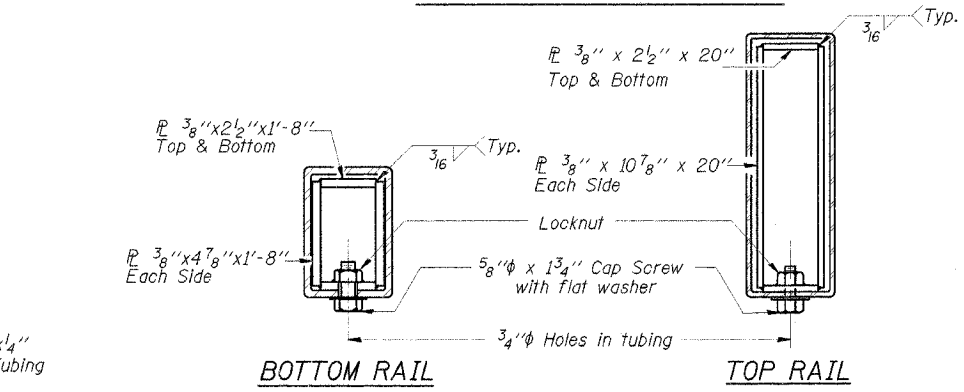
STEEL RAILING ELEVATION



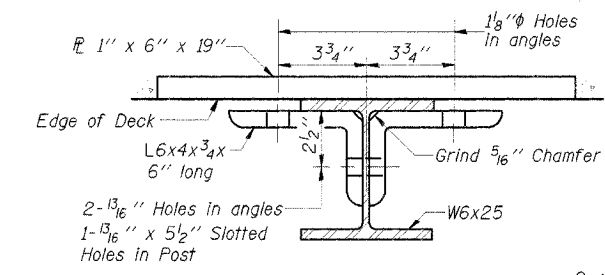
SECTION A-A



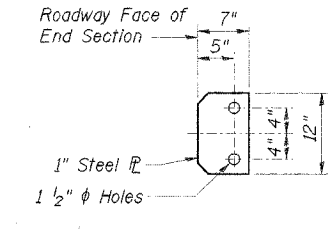
SECTION AT RAIL POST



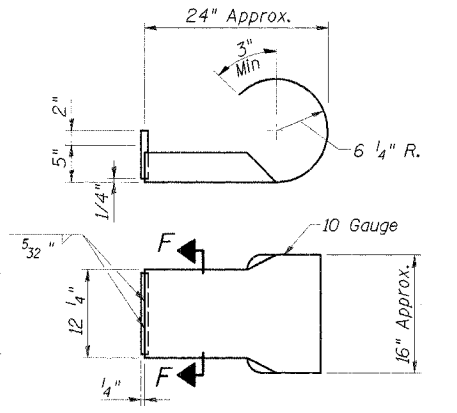
SECTIONS AT RAIL SPLICE



SECTION B-B



SECTION F-F CURLED END SECTION DETAIL

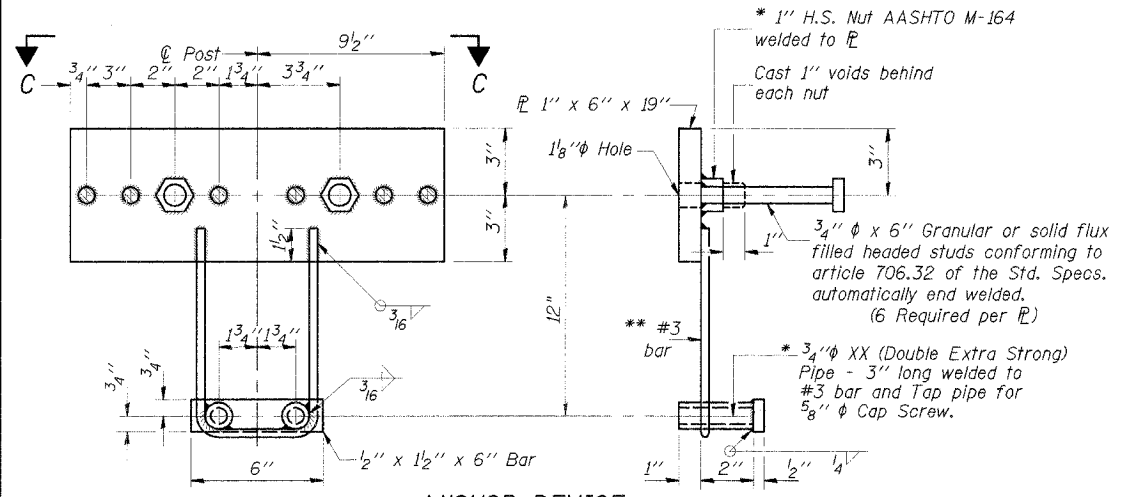


NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.
 All other steel shapes and plates shall conform to the requirements of AASHTO M-270 Grade 36 except posts and angles shall conform to AASHTO M-270, Grade 50.
 Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.
 All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.
 All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.
 Railing shall be in accordance with Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE SM (SPECIAL).
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span PPC Deck bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with STEEL BRIDGE RAIL, TYPE SM (SPECIAL).
 Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 3/8" fabric bearing pad between the post and concrete.
 The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 505.04(f)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.

BILL OF MATERIAL

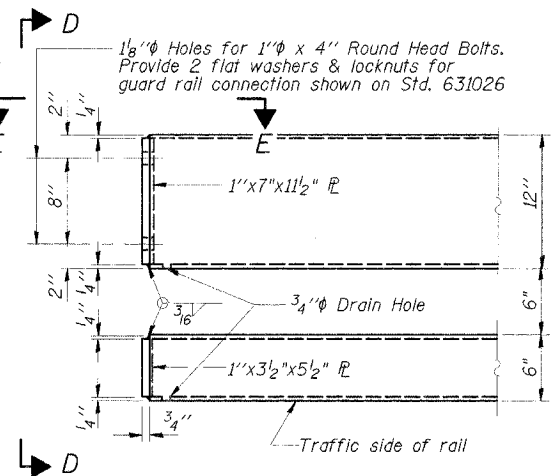
Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	132



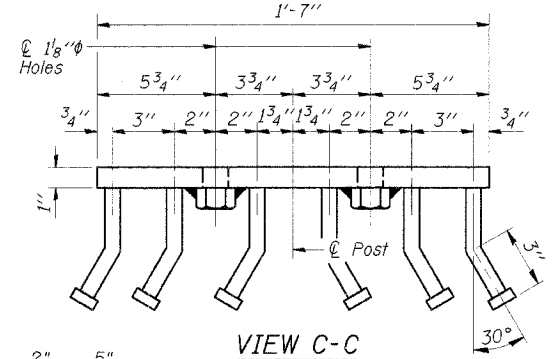
ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

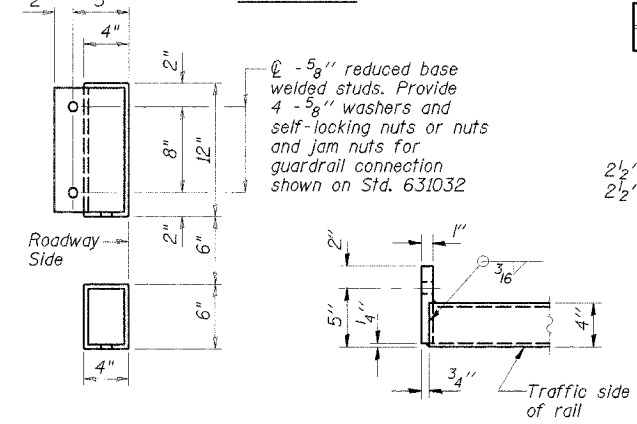
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



END OF RAIL DETAILS

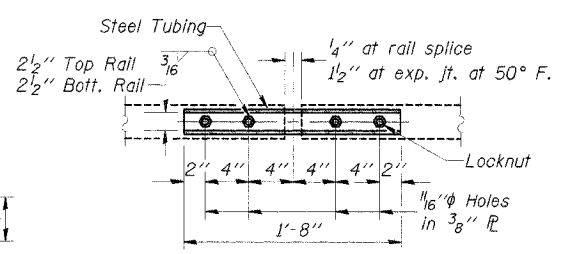


VIEW C-C



VIEW D-D

VIEW E-E



PLAN-BOTT. SPLICE R TYPICAL

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	A. Fraenhoffer				
APVD	A. Fraenhoffer	NO.	DATE	REVISION	BY

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 3002 Crossing Court Champaign, IL 61822 217-351-6268

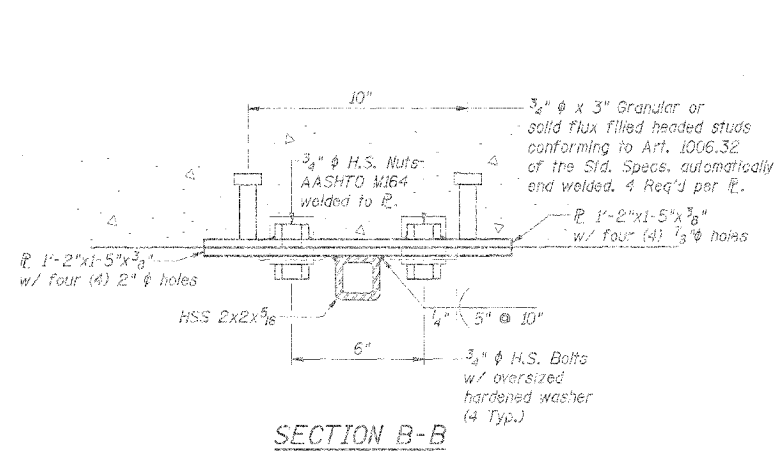
STEEL RAILING TYPE SM

VILLAGE OF CATLIN
 SECTION 05-00154-00-BR
 VERMILION COUNTY

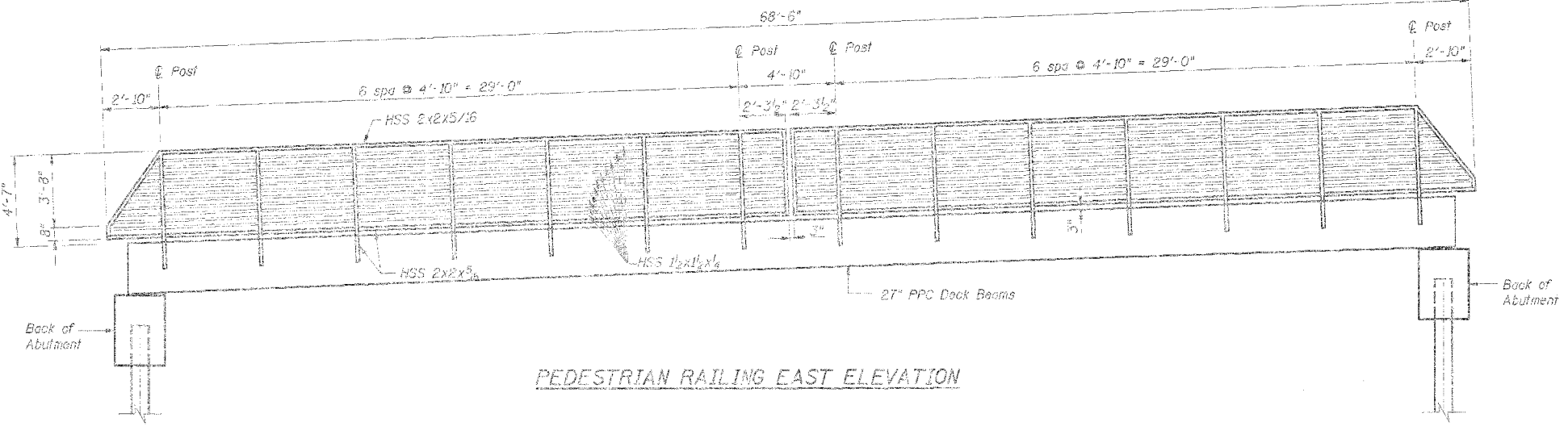
SHEET	50
DWG NO.	5022-sm.dwg
DATE	FEB 2006
PROJ NO.	5022

ROUTE NO.	SECTION	DATE	SHEET
FAS 507	*	Vermilion	54
PROJECT NO.	DATE	BY	NO.

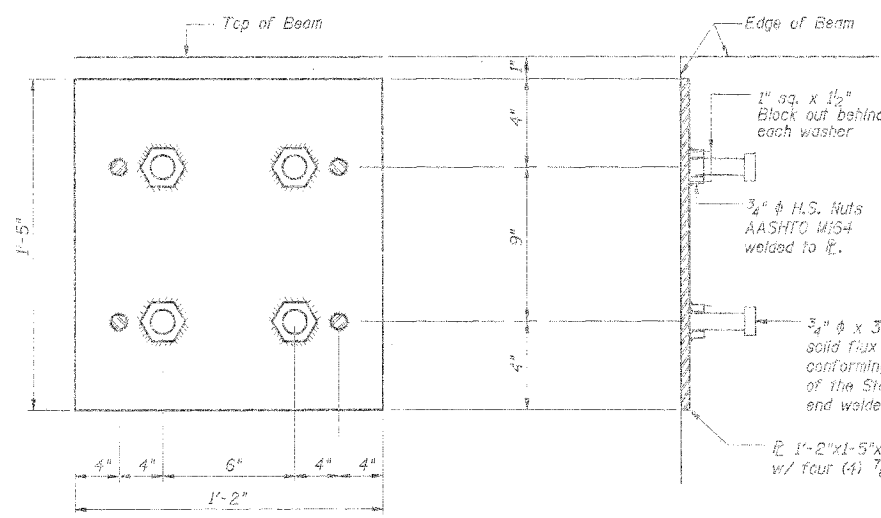
*05-00154-00-BR



SECTION B-B

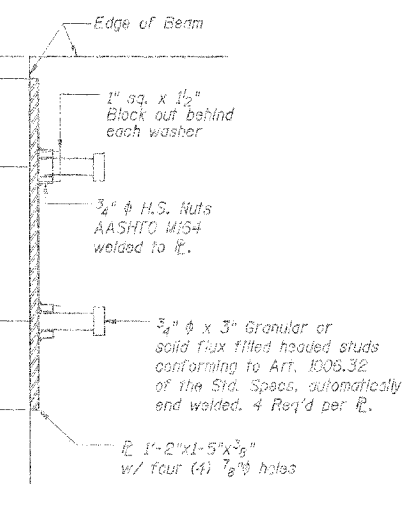


PEDESTRIAN RAILING EAST ELEVATION



ANCHOR ELEVATION

(Cast into PPC Deck Beam)



ANCHOR SECTION

(Cast into PPC Deck Beam)

BILL OF MATERIAL

Item	Unit	Quantity
Pedestrian Railing (Special)	Foot	137

NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, Structural Steel Tubing and shall meet the longitudinal CVM requirements of 15 ft-lbs at 0°F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.

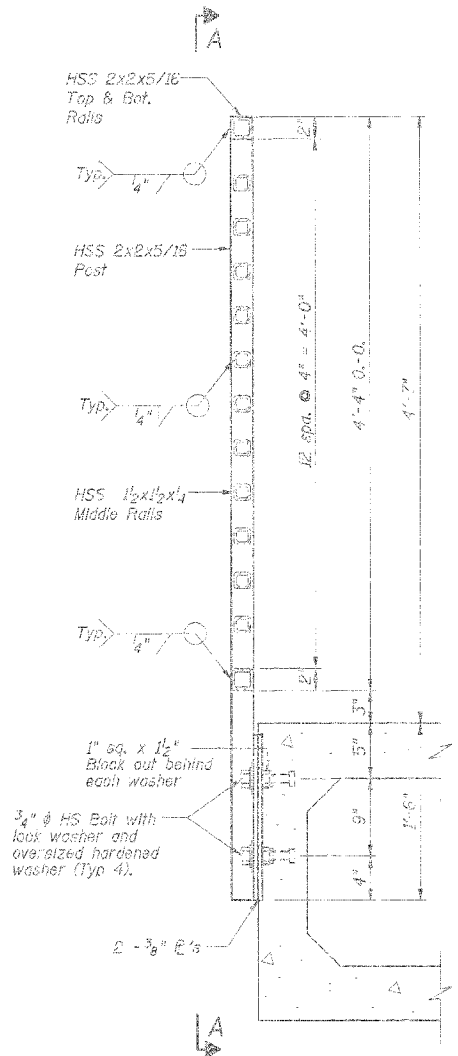
Plates welded to the posts shall have 2" shop drilled oversize holes to accommodate field installation. Oversize hardened washers shall be used in combination with lock washers and high strength bolts.

Bolts, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

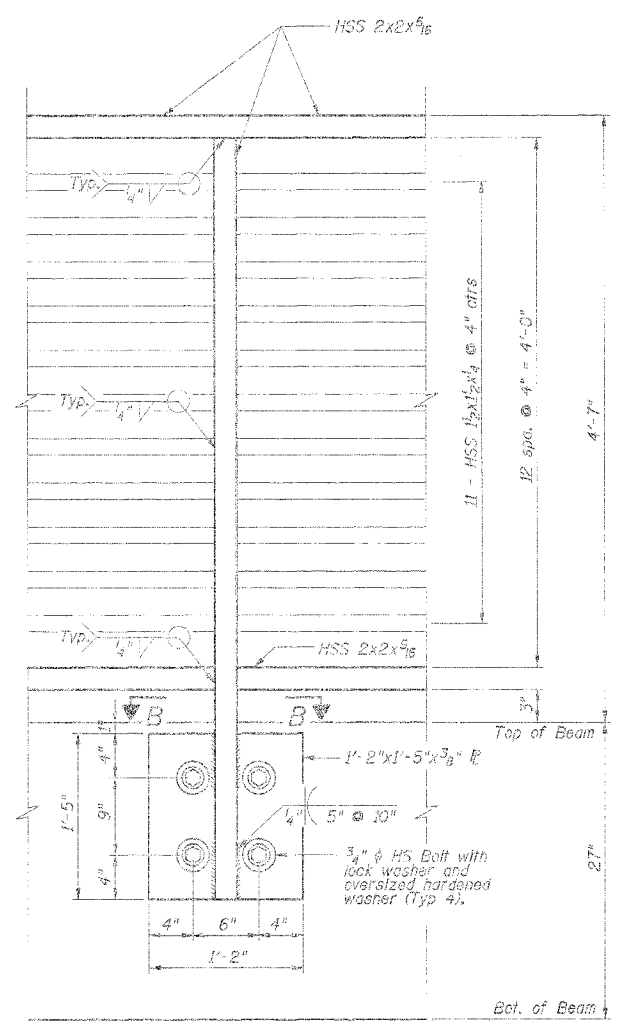
All bolts, nuts, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, and anchor devices shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 365. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for PEDESTRIAN RAILING (SPECIAL).



SECTION AT RAIL POST



SECTION A-A

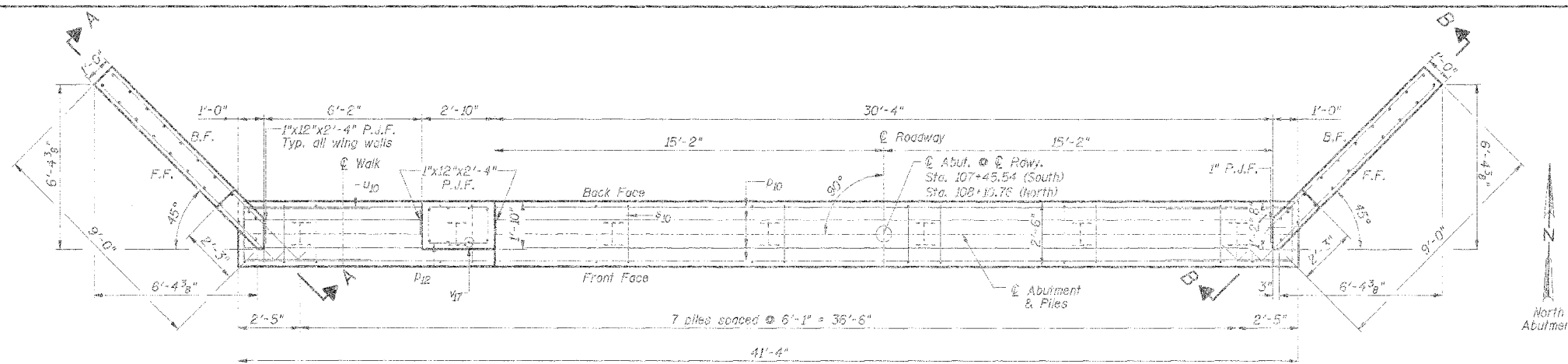
DESIGN	K.J. Hoffmann						
DR	K.J. Hoffmann						
CHK	A. Fraenhoffer						
APP	A. Fraenhoffer	NO.	DATE	REVISION	BY	APP	

FRAUENHÖFFER
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3002 Crossing Court Champaign, IL 61822 217-361-6268

PEDESTRIAN RAILING		SHEET	51
VILLAGE OF CATLIN		DATE	AUG 2006
SECTION 05-00154-00-BR		PROJ	502
VERMILION COUNTY		NO.	

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL
FAS 507	*	Vermilion	54	52
DATE FOR CONSTRUCTION: 6/13/07				

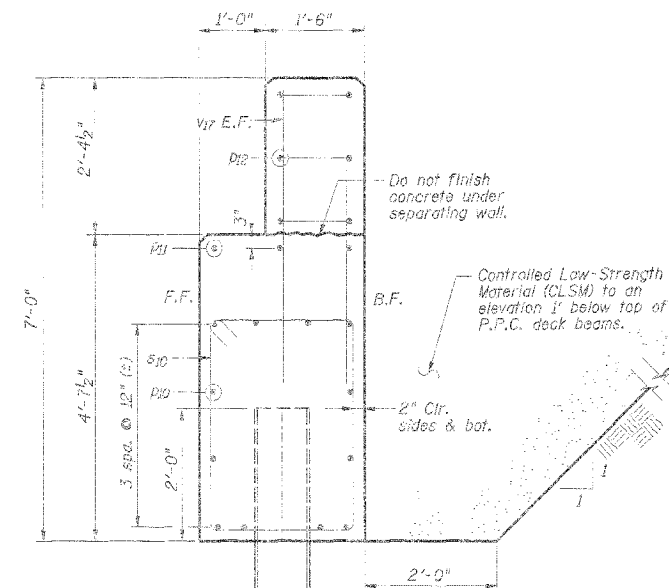
*05-00154-00-BR



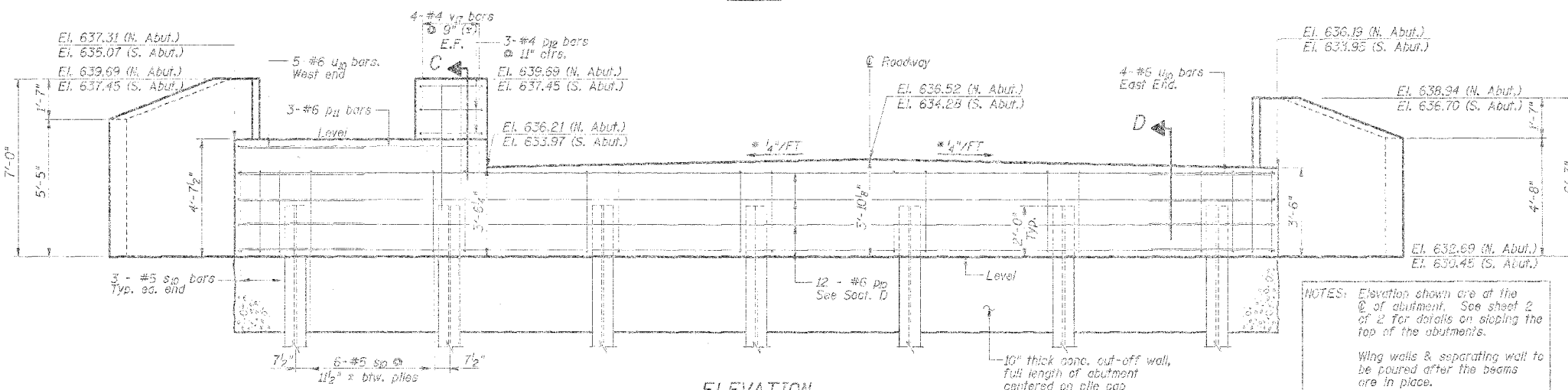
PLAN

North abutment shown. South abutment is mirror image about the \odot abutment.

North Abutment

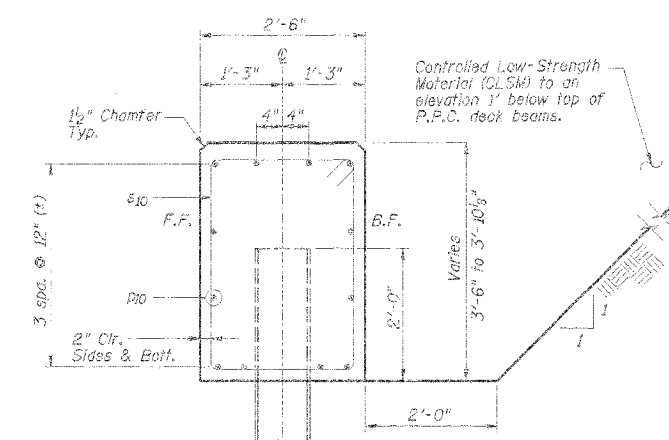


SECTION C
(Perpendicular to \odot of Abutment)

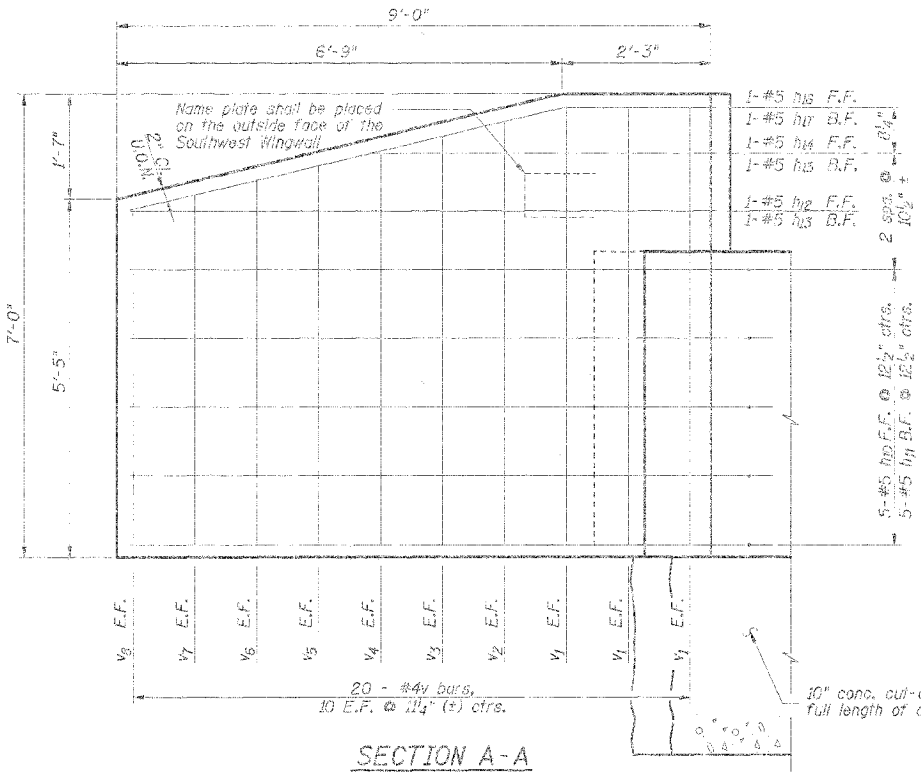


ELEVATION

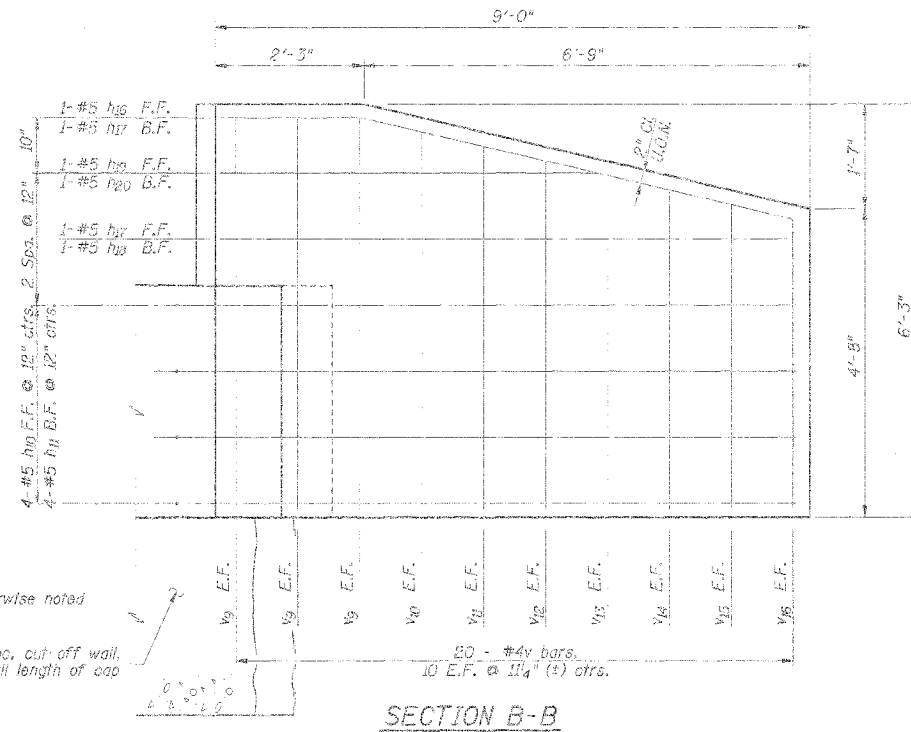
NOTES: Elevation shown are at the \odot of abutment. See sheet 2 of 2 for details on sloping the top of the abutments.
Wing walls & separating wall to be poured after the beams are in place.



SECTION D
(Perpendicular to \odot of Abutment)



SECTION A-A



SECTION B-B

F.F. - Front Face
B.F. - Back Face
E.F. - Each Face
U.O.M. - Unless otherwise noted

10" conc. cut-off wall, full length of cap

10" conc. cut-off wall, full length of cap

10" conc. cut-off wall, full length of cap

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.A. Frauenhoffer				
APVD	J.A. Frauenhoffer	NO.	DATE	REVISION	BY

FRAUENHOFFER

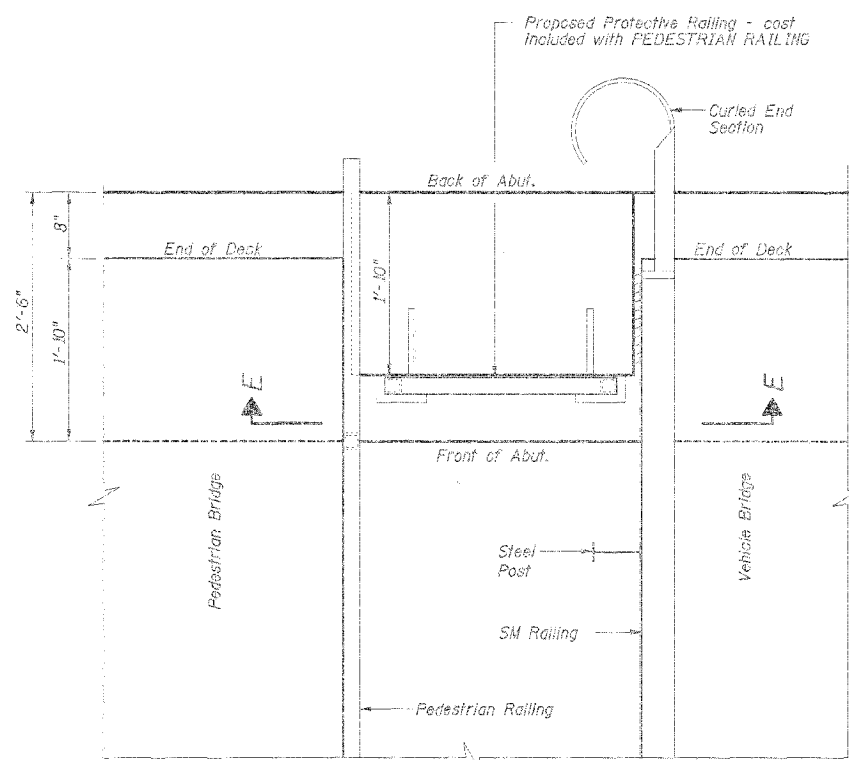
Frauenhoffer and Associates, P.C. Consulting Engineers
3002 Crossing Court Champaign, IL 61822 217-351-6269

ABUTMENTS - SHEET 1 OF 2

VILLAGE OF CATLIN
SECTION 05-00154-00-BR
VERMILION COUNTY

SHEET	52
DWG NO.	5022-act.dwg
DATE	JUNE 2006
PROJ NO.	5022

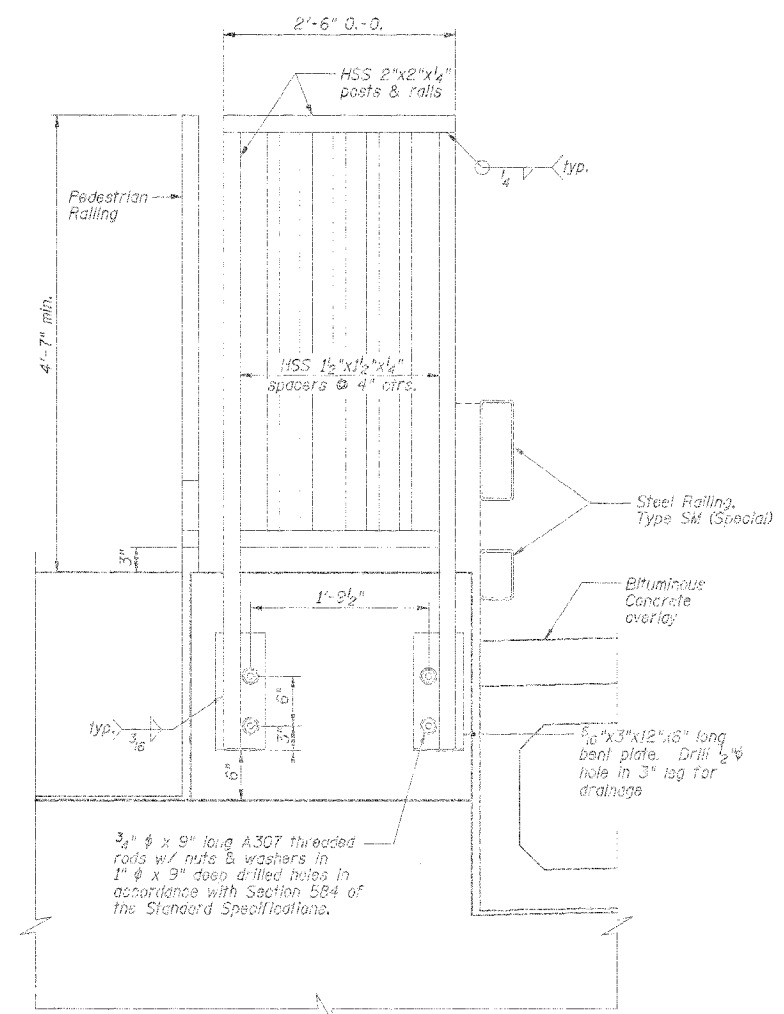
ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL
FAS 507	*	Vermilion	54	53
FED. ROAD DIST. NO. 7		PLAN NO.	PROJECT NO.	
			*05-00154-00-BR	



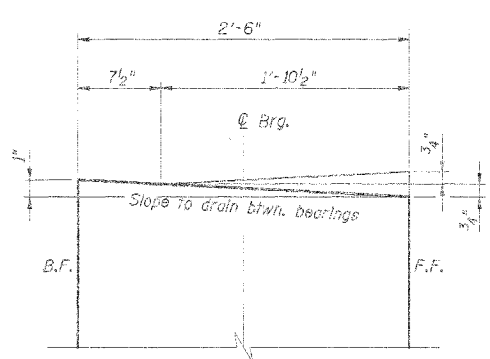
**PLAN VIEW
PROTECTIVE RAILING**

Cost Included with PEDESTRIAN RAILING
Occurs at North & South Abutments.

NOTES: Center protective railing in opening as necessary.
All posts, railing, anchor devices, and bent plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 335. Galvanized roll shall not be permitted.

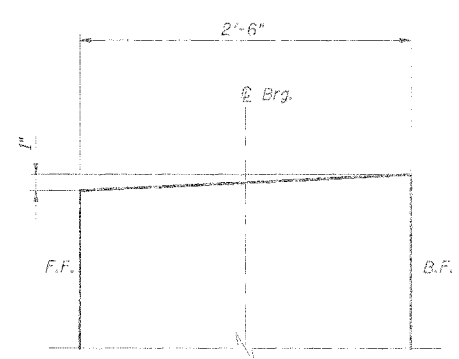


SECTION E-E



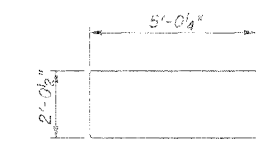
**SOUTH ABUTMENT
TOP OF CAP
SLOPE DETAILS**

Control elevations along C of Bearings. Slope top of abutment to drain between bearings as shown above.

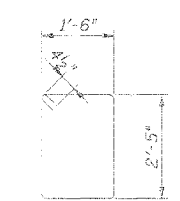


**NORTH ABUTMENT
TOP OF CAP
SLOPE DETAILS**

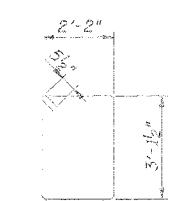
Control elevations along C of Bearings. Slope top of abutment as shown above.



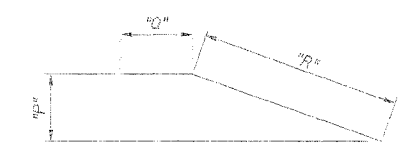
BAR U10



BAR p12

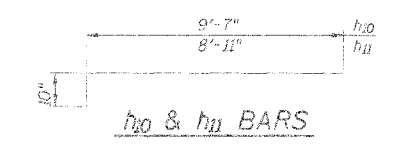


BAR s10



h16 & h17 BARS

BAR	"P"	"Q"	"R"
h16	1'-6 1/2"	2'-3 1/2"	6'-9 1/2"
h17	1'-6 1/2"	1'-8"	6'-9 1/2"



h10 & h11 BARS

PILE DATA

Type: Steel HPI0x42
 No. Required: 6 North Abutment
 6 South Abutment
 Nominal Required Bearing: 100 kips
 Allowable Resistance Available: 60 kips
 Drive Piles to Refusal
 Est. Length: 14 Feet Both Abutments
 Test Piles: 1 North Abutment
 1 South Abutment
 The Steel Piles shall meet the requirements of AASHTO M270 Grade 50.

BILL OF MATERIAL - 2 ABUT.

Bar	No.	Size	Length	Shops
h10	18	# 5	10'-5"	
h11	18	# 5	7'-9"	
h12	2	# 5	8'-10"	
h13	2	# 5	8'-2"	
h14	2	# 5	5'-3"	
h15	2	# 5	4'-7"	
h16	4	# 5	9'-1"	
h17	4	# 5	8'-5"	
h18	2	# 5	8'-8"	
h19	2	# 5	8'-0"	
h20	2	# 5	5'-8"	
h21	2	# 5	5'-0"	
p12	18	# 6	41'-6"	
p11	6	# 6	9'-6"	
p10	6	# 4	7'-11"	
s10	64	# 5	11'-6"	
u10	18	# 6	12'-1"	
v1	12	# 4	5'-9"	
v2	4	# 4	6'-7"	
v3	4	# 4	6'-4"	
v4	4	# 4	6'-1"	
v5	4	# 4	5'-11"	
v6	4	# 4	5'-8"	
v7	4	# 4	5'-5"	
v8	4	# 4	5'-3"	
v9	12	# 4	6'-0"	
v10	4	# 4	5'-10"	
v11	4	# 4	5'-7"	
v12	4	# 4	5'-4"	
v13	4	# 4	5'-2"	
v14	4	# 4	4'-11"	
v15	4	# 4	4'-8"	
v16	4	# 4	4'-6"	
v17	12	# 4	5'-0"	
Concrete Structures		Cu. Yds.	39.8	
Reinforcement Bars		Lbs.	3440	
Test Pile, Steel HPI0x42		Each	2	
Furnishing Steel Piles HPI0x42		Foot	168	
Driving Piles		Foot	168	
Metal Shoes		Each	14	
Concrete Cut-off Wall		Cu. Yds.	7.6	
Structure Excavation		Cu. Yds.	20	
Controlled Low-Strength Material (CLSM)		Cu. Yds.	102	

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	A. Frauenhoffer				
APVD	A. Frauenhoffer	No.	DATE	REVISION	BY

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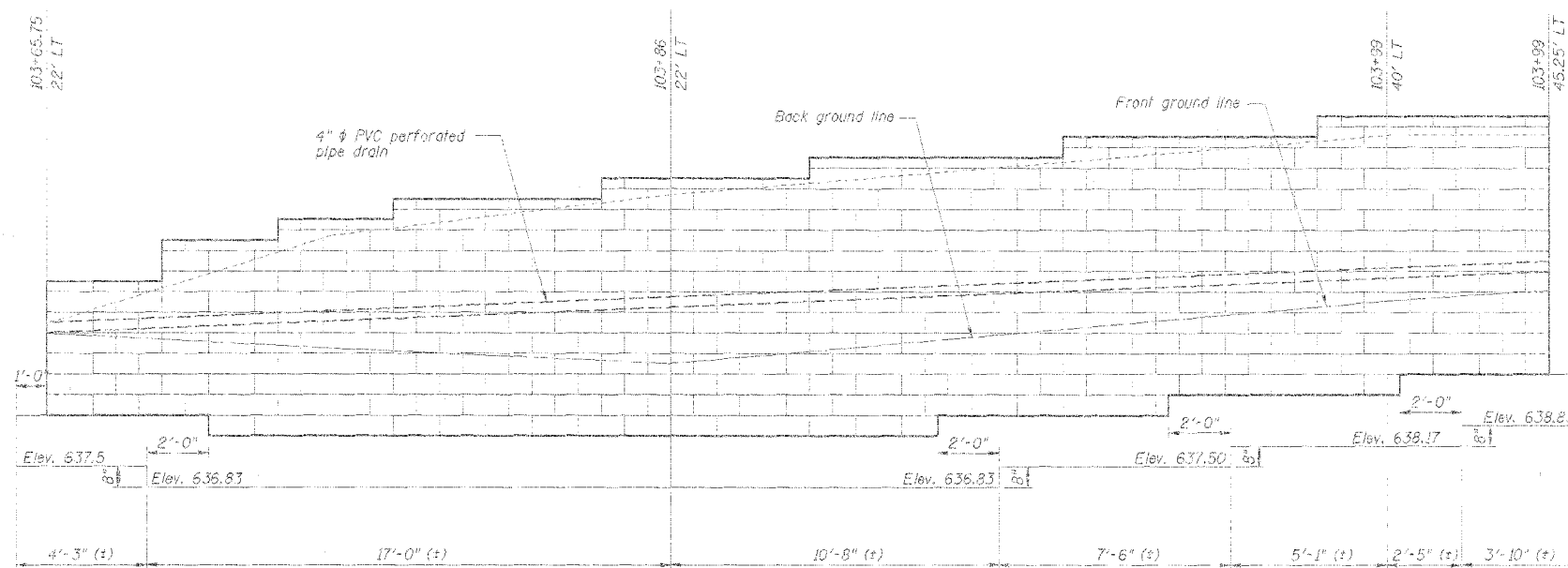
ABUTMENTS - SHEET 2 OF 2
 VILLAGE OF CATLIN
 SECTION 05-00154-00-BR
 VERMILION COUNTY

SHEET	53
DWG. NO.	0522-ABT.dwg
DATE	JUNE 2006
PROJ. NO.	5022

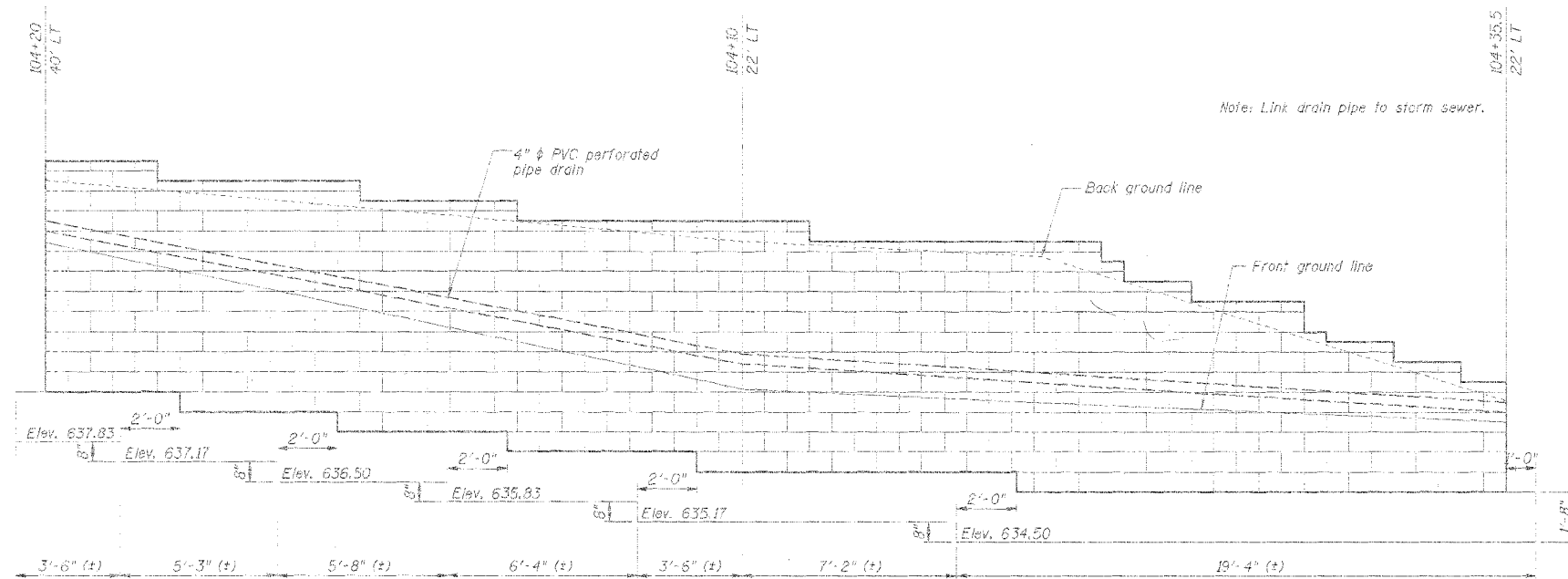
ROUTE NO.	SECTION	SHEET	TOTAL
FAS 507	#	Vermilion	54

#05-00154-00-BR

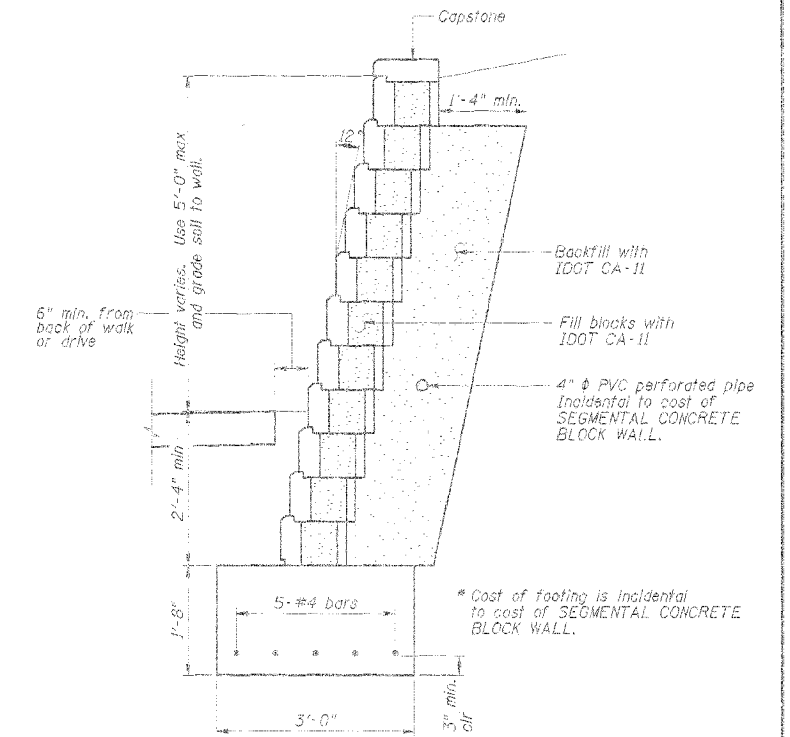
Note: Link drain pipe to storm sewer.



WALL 1 ELEVATION



WALL 2 ELEVATION



WALL SECTION

QUANTITIES

Block Wall	732 SQUARE FEET
Reinforcement	400 POUNDS
Concrete	20.5 CUBIC YARDS

DESIGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	A. Fraenhoffer				
APVD	A. Fraenhoffer	NO.	DATE	REVISION	BY

FRAUENHOPFER

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3002 Crossing Court Champaign, IL 61822 217-351-6268

BLOCK WALL DETAILS

VILLAGE OF CATLIN
SECTION 05-00154-00-BR
VERMILION COUNTY

SHEET	54
DWG NO.	502chrt.dwg
DATE	NOV 2006
PROJ NO.	5022