SUMMARY OF QUANTITIES

	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY.	CONSTRUCTION TYPE CODE: RDWY 0003	STRUCTURAL 0040	TRAFFIC SIGNALS 0021	LIGHTING 0021	100% LOCAL FUNDING
*	54247180	GRATING FOR CONCRETE FLARED END SECTION 42"	EACH	1	1				
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	2,164	2,164				
	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	266	266				
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	690	690				
	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	1,328	1,328				
	550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	226	226				
	550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	306	306				
	550A0190	STORM SEWERS, CLASS A, TYPE 1 48"	FOOT	344	344				
	550A0200	STORM SEWERS, CLASS A, TYPE 1 54"	FOOT	298	298				
	550A0210	STORM SEWERS, CLASS A, TYPE 1 60"	FOOT	5	5				
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	6,859	6,859				
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	1,525	1,525				
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	2,286	2,286				
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	2,822	2,822				
	550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	985	985				
	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	1,306	1,306				
	550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	1,141	1,141				
	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	FOOT	823	823				
	550A0490	STORM SEWERS, CLASS A, TYPE 2 54"	FOOT	774	774				
	550A0500	STORM SEWERS, CLASS A, TYPE 2 60"	FOOT	3,116	3,116				
	550A0640	STORM SEWERS, CLASS A, TYPE 3 12"	FOOT	335	335				
	550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	FOOT	146	146				
	550A0730	STORM SEWERS, CLASS A, TYPE 3 30"	FOOT	64	64				
	550A0750	STORM SEWERS, CLASS A, TYPE 3 36"	FOOT	238	238				
	55100200	STORM SEWER REMOVAL 6"	FOOT	1,140	1,140				
	55100300	STORM SEWER REMOVAL 8"	FOOT	58	58				
	55100500	STORM SEWER REMOVAL 12"	FOOT	718	718				
	55100700	STORM SEWER REMOVAL 15"	FOOT	580	580				
	55100900	STORM SEWER REMOVAL 18"	FOOT	706	706				
	55101200	STORM SEWER REMOVAL 24"	FOOT	3,890	3,890				
	55101400	STORM SEWER REMOVAL 30"	FOOT	990	990				
	55101600	STORM SEWER REMOVAL 36"	FOOT	510	510				
#*	56103100	DUCTILE IRON WATER MAIN 8"	FOOT	37					37
#*	56103200	DUCTILE IRON WATER MAIN 10"	FOOT	221					221
#*	56103300	DUCTILE IRON WATER MAIN 12"	FOOT	468					468
#*	56105000	WATER VALVES 8"	EACH	1					1
#*	56105100	WATER VALVES 10"	EACH	2					2
#*	56105200	WATER VALVES 12"	EACH	2					2
#*	56106500	ADJUSTING WATER MAIN 10"	FOOT	160	160				
#*	56106600	ADJUSTING WATER MAIN 12"	FOOT	80	80				
#	56300100	ADJUSTING SANITARY SEWERS, 8-INCH DIAMETER OR LESS	FOOT	360	360				
#	56300300	ADJUSTING WATER SERVICE LINES	FOOT	360	360				
#*	56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	13	13				

* DENOTES SPECIAL PROVISION
# DENOTES SPECIALTY ITEM

PATRICK ENGINEERING INC.
LISLE, ILLINOIS

USER NAME = skeppert(Rdwy_Lisle)	DESIGNED - MJP	REVISED - 10/29/2010	
PLOT CONFIG= PDF(Grey_Large).plt	DRAWN - TCK	REVISED	
PLOT SCALE = 1.52	CHECKED - JAH	REVISED	
PLOT DATE = 10/25/2010	DATE - 8/2/2010	REVISED	

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
SUMMARY OF QUANTITIES

SCALE: NA | SHEET NO. SOQ 3 OF 10 | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	6
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE — 0043

	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY.	RDWY 0003	STRUCTURAL 0040	TRAFFIC SIGNALS 0021	LIGHTING 0021	100% LOCAL FUNDING
#	89502200	MODIFY EXISTING CONTROLLER	EACH	1			1		
#	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,230			3,230		
#*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6			6		
#*	89502380	REMOVE EXISTING HANDHOLE	EACH	69			69		
#*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	59			59		
#	A2001024	TREE, ACER RUBRUM (RED MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	31	31				
#	A2002520	TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	77	77				
#	A2002924	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 3" CALIPER, BALLED AND BURLAPPED	EACH	58	58				
#	A2006518	TREE, ULMUS PARVIFOLIA (LACEBARK ELM), 2" CALIPER, BALLED AND BURLAPPED	EACH	63	63				
#	A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	70	70				
#	A2007120	TREE, QUERCUS RUBRA (RED OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	60	60				
#	A2008024	TREE, TILIA CORDATA (LITTLE LEAF LINDEN), 3" CALIPER, BALLED AND BURLAPPED	EACH	48	48				
#	B2010165	TREE, CORNUS KOUSA (KOUSA DOGWOOD), 5' HEIGHT, BALLED AND BURLAPPED	EACH	66	66				
#	D2002288	EVERGREEN, PICEA PINGENS GLAUCA(COLORADO BLUE SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED	EACH	50	50				
#*	X5610708	WATER MAIN REMOVAL 8"	FOOT	17					17
*	X0301423	NOISE ABATMENT WALL, PRECAST CONCRETE (GROUND MOUNTED)	SQ FT	6,905		6,905			
#*	X5610712	WATER MAIN REMOVAL 12"	FOOT	466					466
*	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	18	18				
*	Z0056608	STORM SEWERS (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	659	659				
*	Z0056610	STORM SEWERS (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	10	10				
*	Z0056616	STORM SEWERS, (WATER MAIN REQUIREMENTS), 24 INCH	FOOT	145	145				
*	Z0056620	STORM SEWERS (WATER MAIN REQUIREMENTS) 30 INCH	FOOT	240	240				
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	1,260	1,260				
*	X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	3,480		3,480			
*	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	234	234				
#*	Z0033090	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	56,894			15,691	26,200	15,003
*	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	81	81				
#*	X5610710	WATER MAIN REMOVAL 10"	FOOT	206					206
*	X0323868	DRAINAGE RESTRICTOR	EACH	8	8				
#*	Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1			1		
#*	81603230	UNIT DUCT, 600V, 3-1/C NO. 1, 1/C NO. 1 GROUND, (EPR-TYPE RHW), 2" DIA. POLYETHYLENE	FOOT	17,200				17,200	
#*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	4			4		
#*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	6			6		
*	X0326358	STORM WATER TREATMENT SYSTEM	EACH	2	2				
#*	X0326723	WET REFLECTIVE PREFORMED PLASTIC PAVEMENT MARKINGS - LETTERS AND SYMBOLS	SQ FT	2,876					2,876
#*	X0326724	WET REFLECTIVE PREFORMED PLASTIC PAVEMENT MARKINGS - LINE 4"	FOOT	38,322					38,322
#*	X0326725	WET REFLECTIVE PREFORMED PLASTIC PAVEMENT MARKINGS - LINE 6"	FOOT	14,768					14,768
#*	X0326726	WET REFLECTIVE PREFORMED PLASTIC PAVEMENT MARKINGS - LINE 12"	FOOT	3,314					3,314
#*	X0326727	WET REFLECTIVE PREFORMED PLASTIC PAVEMENT MARKINGS - LINE 24"	FOOT	1,173					1,173
*	Z0062456	TEMPORARY PAVEMENT	SQ YD	40,821	40,821				
*	X0932150	CURB & GUTTER OUTLET SPECIAL	EACH	4	4				
*	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2				
*	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	11	11				

* DENOTES SPECIAL PROVISION
\# DENOTES SPECIALTY ITEM

PATRICK ENGINEERING INC.
LISLE, ILLINOIS

USER NAME = tkeappen(Rdwy_Lisle)	DESIGNED - MJP	REVISED - 10/29/2010 ⚠1
PLOT CONFIG = PDF(Grey_Large).plt	DRAWN - TCK	REVISED -
PLOT SCALE = 1.50	CHECKED - JAH	REVISED -
PLOT DATE = 10/22/2010	DATE - 8/2/2010	REVISED -

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
SUMMARY OF QUANTITIES

SCALE: NA | SHEET NO. SOQ 8 OF 10 | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	11
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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DATE
ALIGNMENT CHECKED
R.T. OF WAY CHECKED
ROAD FILE NAME
BEAM, NOTED
STRUCTURE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE
PROFILE CHECKED
BEAM, NOTED
STRUCTURE

EXIST
PROP

PROP. ℄ RANDALL ROAD
PROP. R.O.W.
EXIST. R.O.W.
MATCH LINE STA. 90+00
MATCH LINE STA. 105+00
SEE DU-17 FOR CONTINUATION
FIRE HYDRANT TO BE ADJUSTED
TEMP. EASEMENT
PROP. 8" VALVE WITH VAULT
PROP. 12" VALVE WITH VAULT
PROP. NOISE WALL
PROP. CASING PIPE EXTENSION IN TRENCH
PROP. ℄ ACKMAN ROAD
PROP. RESTRICTOR #D-1
END IMPROVEMENT STA. 21+87.44
SEE FOLLOWING SHEET FOR DRAINAGE PROFILE
EXIST. GRADE AT ℄
PROP. PGL

EXIST.	874.61	875.65	877.27	879.58	882.44	885.59	888.56	891.51	894.03	896.10	897.40	898.14	898.39	897.89	896.84	895.32
PROP.	874.59	875.60	877.33	879.78	882.67	885.57	888.47	891.37	894.10	896.21	897.69	898.55	898.77	898.36	897.32	895.66
STA.	90+00	91+00	92+00	93+00	94+00	95+00	96+00	97+00	98+00	99+00	100+00	101+00	102+00	103+00	104+00	105+00

PATRICK ENGINEERING INC. LISLE, ILLINOIS	USER NAME = jmacke(Chicago_R)	DESIGNED - D. DOERFLER	REVISED - ⚠ADDENDUM#1-10/29/10	MCHENRY COUNTY DIVISION OF TRANSPORTATION	DRAINAGE AND UTILITIES
	PLOT CONFIG= PDF(Grey_Large).plt	DRAWN - J. MACKE	REVISED -		RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
	PLOT SCALE = 1:50	CHECKED - E. CHOW	REVISED -		SCALE: 1"=50' SHEET NO. DU 2 OF 47 90+00.00 105+00.00
	PLOT DATE = 10/22/2010 2:08:39 PM	DATE - 8/2/10	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	185
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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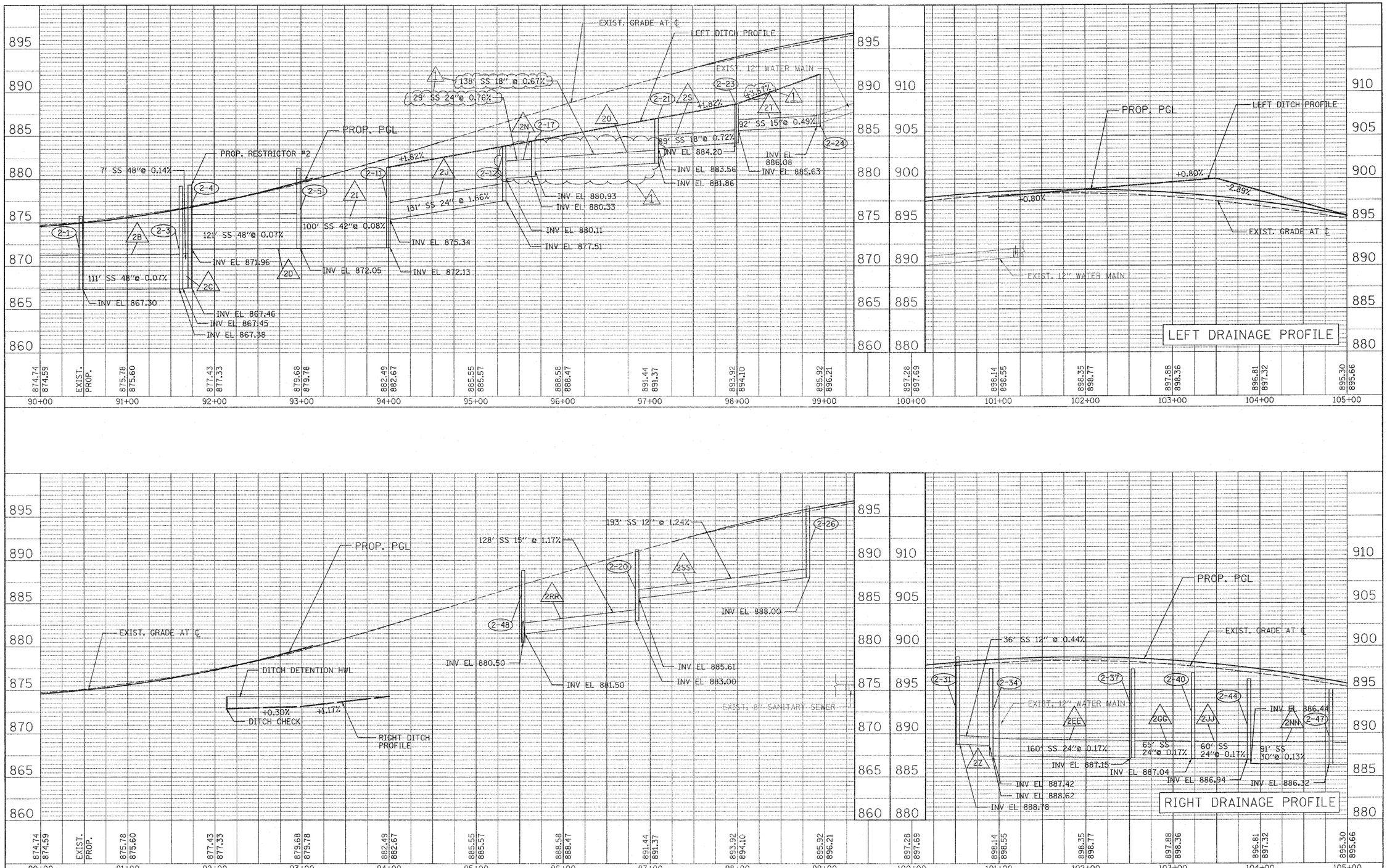

PLAN — SURVEYED, PLOTTED, DRAWN, CHECKED, R/W CHECKED, LAND FILE NAME, NOTE BOOK, NO.

PROFILE — SURVEYED, PLOTTED, DRAWN, CHECKED, R/W CHECKED, STRUCTURE NO(S) & TYPE, NOTE BOOK, NO.

BY — DATE

PATRICK ENGINEERING INC.
LISLE, ILLINOIS

USER NAME = jmacke(Chicago_R)	DESIGNED - D. DOERFLER	REVISED - ⚠ADDENDUM#1-10/29/10			
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PLOT SCALE = 1:50	CHECKED - E. CHOW	REVISED -			
PLOT DATE = 10/22/2010 2:09:23 PM	DATE - 8/2/10	REVISED -			

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
ROADWAY PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. DU 3 OF 47 | STA. 90+00 | TO STA. 105+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	186
		CONTRACT NO. 63398		
		ILLINOIS FED. AID PROJECT		

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PLAN

DATE	BY

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PLOTTED
ALIGNMENT CHECKED
R.T.-OF-WAY CHECKED
LOAD FILE NAME

NOTE BOOK
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PROFILE

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ALIGNMENT CHECKED
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NOTE BOOK
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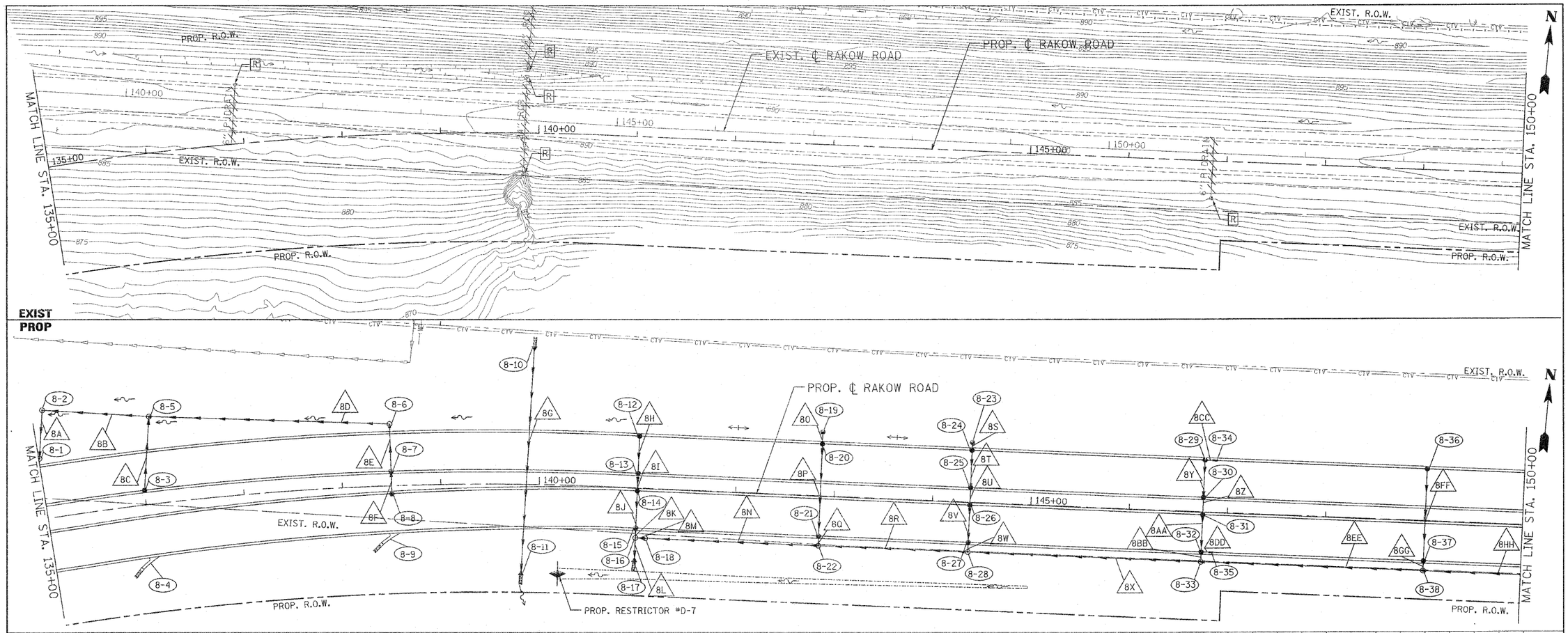

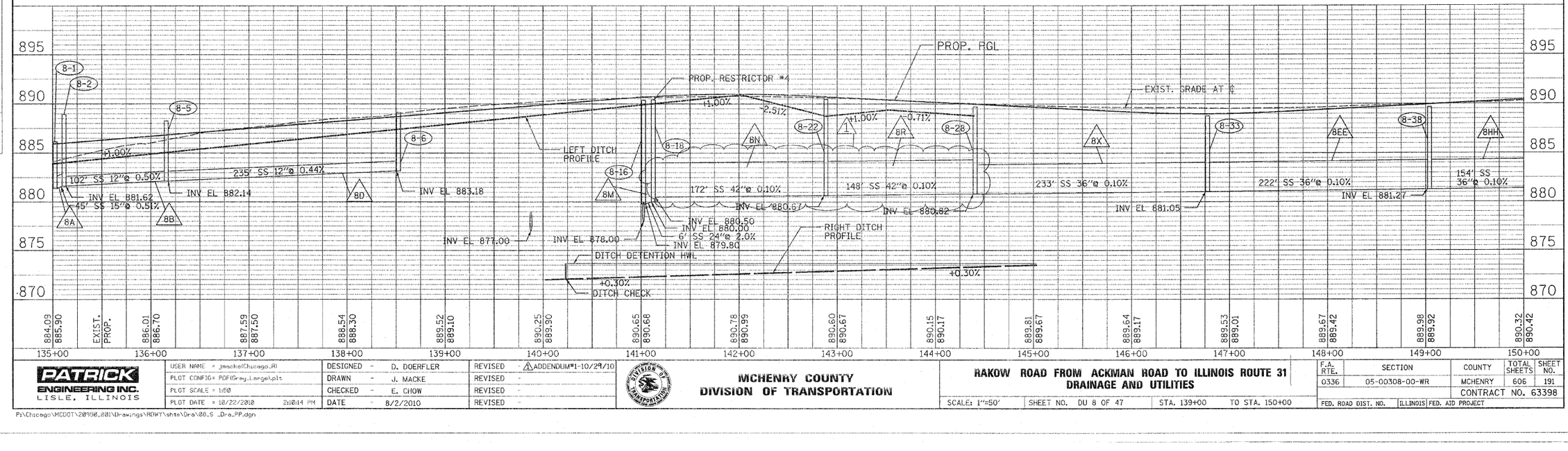

PATRICK ENGINEERING INC. LISLE, ILLINOIS	USER NAME = jmacke(Chicago.R)	DESIGNED - D. DOERFLER	REVISED - ⚠ADDENDUM#1-10/29/10	MCHENRY COUNTY DIVISION OF TRANSPORTATION	RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31 DRAINAGE AND UTILITIES
	PLOT CONFIG= PDF(Grey.Langel.pltS	DRAWN - J. MACKE	REVISED -		SCALE: 1"=50' | SHEET NO. DU 8 OF 47 | STA. 139+00 TO STA. 150+00
	PLOT SCALE = 1:50	CHECKED - E. CHOW	REVISED -		
	PLOT DATE = 10/22/2010 2:10:14 PM	DATE - 8/2/2010	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	191
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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EXIST
PROP

SEE DU-25 FOR CONTINUATION

EXIST. ℄ RAKOW ROAD

EXIST. ℄ ILLINOIS ROUTE 31

PROP. ℄ RAKOW ROAD

SEE DU-25 FOR CONTINUATION

SEE DU-25 FOR CONTINUATION

END PROJECT
STA. 248+17.62

℄ ILLINOIS ROUTE 31

SEE DU-25 FOR CONTINUATION

PROP. PGL

LEFT DITCH PROFILE

RIGHT DITCH PROFILE

EXIST. GRADE AT ℄

EXIST. 10" WATER MAIN

EXIST. 12" WATER MAIN

EXIST. 15" SAN. SEWER

188' SS 60"@ 0.05%

100' SS 60"@ 0.05%

86' SS 60"@ 0.05%

69' SS 60"@ 0.05%

181' SS 42"@ 0.08%

40' SS 66"@ 0.05%

126' SS 15"@ 0.32%

INV EL 880.92

INV EL 880.97

INV EL 881.01

INV EL 882.48

INV EL 881.05

INV EL 881.12

INV EL 882.63

INV EL 885.46

INV EL 885.06

	EXIST.	PROP.
240+00	893.39	893.34
241+00	893.60	893.77
242+00	893.47	893.57
243+00	892.67	892.74
244+00	891.70	891.74
245+00	890.70	890.76
246+00	889.94	890.26
247+00	890.21	890.42
248+00	890.97	891.06
249+00	890.95	
250+00	893.94	

PATRICK ENGINEERING INC.
LISLE, ILLINOIS

USER NAME = jmackelChicago.RO	DESIGNED - D. DOERFLER	REVISED - ⚠ADDENDUM#1-10/29/10	
PLOT CONFIG= PDF\Grey_Large.plt	DRAWN - J. SCHROEDER	REVISED -	
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PLOT DATE = 10/22/2010 2:11:15 PM	DATE - 8/2/2010	REVISED -	

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
DRAINAGE AND UTILITIES PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. DU 16 OF 47 | STA. 240+00 | TO STA. 248+17.62

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	199
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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EXIST
PROP

MATCH LINE
PYOTT ROAD STA. 52+00

EXIST. R.O.W.

PROP. ℄ PYOTT ROAD

55+00

60+00

28" SAN. SEWER

PROP. R.O.W.

ADJ

12" SAN. SEWER

24" RCP

END IMPROVEMENT
STA. 61+35.94

BASIN 2

EXIST. R.O.W. 2" CMP

EXIST. R.O.W. ACMP

EXIST. R.O.W.

PROP. PGL

LEFT DITCH PROFILE

EXIST. GROUND AT ℄

RIGHT DITCH PROFILE

-0.50%

+1.94%

+2.05%

+1.04%

+0.47%

-0.98%

-1.32%

+2.22%

+1.11%

213' SS 24"@ 0.17%

216' SS 24"@ 0.17%

153' SS 24"@ 0.17%

157' SS 24"@ 0.17%

INV EL 881.42

INV EL 883.24

INV EL 881.06

INV EL 880.06

INV EL 883.61

INV EL 883.87

INV EL 884.14

	EXIST.	PROP.
52+00	886.47	885.91
53+00	887.39	886.91
54+00	888.46	887.91
55+00	889.35	888.92
56+00	890.07	889.92
57+00	890.77	890.65
58+00	891.45	891.15
59+00	892.16	891.65
60+00	892.47	892.15
61+00	892.71	892.65
62+00	892.90	
63+00	893.16	

PLAN
SURVEYED
PLOTTED
ASSUMED CHECKED
R.O.W.
NOTE BOOK
NO. ADD'T FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONED
H.W. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

PATRICK ENGINEERING INC.
LISLE, ILLINOIS

USER NAME = jmacke(Chicago.R)	DESIGNED - D. DOERFLER	REVISED - ⚠ADDENDUM#1-10/29/10	
PLOT CONFIG= PDF(Grey_Large).plt	DRAWN - J. MACKE	REVISED -	
PLOT SCALE = 1:50	CHECKED - E. CHOW	REVISED -	
PLOT DATE = 10/22/2010 2:12:09 PM	DATE - 8/2/2010	REVISED	

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
DRAINAGE AND UTILITIES

SCALE: 1"=50' | SHEET NO. DU 21 OF 47 | STA. 52+00 | TO STA. 61+35.94

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	204
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET		RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)
1-1	MAN TA 7 DIA T1F CL	88+01.12	50.55	LT	874.12	867.00	870.12		866.74
1-2	CB TC T24F&G	88+10.00	44.00	LT	873.37			867.02	
1-3	WATER QUALITY TREATMENT STRUCTURE #1	89+10.14	70.97	LT	876.10	867.20			867.20
1-4	MAN TA 7 DIA T1F CL	89+10.04	51.64	LT	874.23		867.18	867.18	867.77
1-5	CB TA 4 DIA T24F&G	89+10.14	44.39	LT	872.99	867.87		867.87	
1-6	RESTRICTOR MANHOLE #1	89+17.85	70.65	LT	876.12	867.21	867.21		
1-7	INLETS TA T24F&G	89+18.59	44.64	LT	872.97		867.97		
2-1	MAN TA 6 DIA T1F CL	90+47.16	62.01	LT	877.45	867.30	867.30		869.64
2-2	CB TC T24F&G	90+47.00	47.38	LT	873.86			869.69	
2-3	MAN TA 6 DIA T1F CL	91+61.00	64.00	LT	879.23	867.45	867.38		
2-4	RESTRICTOR MANHOLE #2	91+72.00	64.00	LT	879.96	871.96	867.46		
2-5	MAN TA 6 DIA T1F CL	92+97.00	64.00	LT	881.29	872.05	872.05		874.66
2-6	CB TA 4 DIA T24F&G	92+97.00	52.86	LT	878.87			874.70	874.70
2-7	CB TC T24F&G	92+97.00	15.00	LT	879.70			875.53	
2-8	CB TC T24F&G	92+97.00	8.56	RT	879.74				875.57
2-9	CB TA 4 DIA T24F&G	92+97.00	53.00	RT	878.87			874.70	874.70
2-10	PRC FLAR END SEC 12	92+97.00	61.50	RT	879.19			874.68	
2-11	CB TA 5 DIA T8G	94+00.00	61.50	LT	881.41	875.34	872.13		
2-12	CB TA 5 DIA T8G	95+34.00	65.39	LT	883.84	880.11	877.51		880.05
2-13	CB TC T24F&G	95+34.00	53.00	LT	885.73			880.11	
2-14	CB TC T11V F&G	95+54.69	8.95	LT	886.60				882.43
2-15	CB TA 4 DIA T24F&G	95+54.04	57.90	RT	885.72			881.55	881.55
2-16	PRC FLAR END SEC 30	95+53.62	86.12	RT	883.00			880.59	
2-17	CB TA 5 DIA T8G	95+66.43	66.64	LT	884.45	880.93	880.33	*880.40*	
2-18	CB TC T14V F&G	96+85.00	9.00	LT	890.94				886.77
2-19	CB TA 4 DIA T24F&G	96+85.00	64.29	RT	889.83			885.65	885.65
2-20	MAN TA 4 DIA T1F CL	96+85.00	76.50	RT	890.11	885.61	883.00	885.61	
2-21	CB TA 5 DIA T8G	97+08.00	70.99	LT	887.02	883.56	881.86		882.85
2-22	CB TC T24F&G	97+08.00	53.00	LT	890.82			882.91	
2-23	CB TA 4 DIA T8G	98+00.00	70.27	LT	888.70	885.63	884.20		
2-24	CB TA 4 DIA T8G	98+95.00	69.06	LT	892.09		886.08		
2-25	CB TC T24F&G	98+81.00	65.08	RT	894.72				890.55
2-26	MAN TA 4 DIA T1F CL	98+81.00	72.60	RT	895.05		888.00	890.53	
2-27	CB TA 4 DIA T11V F&G	99+21.00	9.00	LT	898.59			892.45	892.45
2-28	CB TA 4 DIA T24F&G	99+16.77	54.28	LT	897.79			892.70	892.70
2-29	CB TA 4 DIA T24F&G	21+87.44	20.02	LT	893.69	889.53		890.00	
2-30	CB TA 4 DIA T24F&G	21+87.44	28.18	RT	893.85		889.33	889.33	
2-31	MAN TA 4 DIA T1F CL	100+52.87	76.46	RT	896.50	888.78			888.78
2-32	CB TA 4 DIA T11V F&G	100+91.00	9.00	RT	898.29	893.95		890.73	890.73
2-33	CB TA 4 DIA T24F&G	100+91.00	54.22	RT	896.86			890.59	890.59
2-34	MAN TA 5 DIA T1F CL	100+91.00	71.00	RT	897.45	887.42	888.62	890.54	
2-35	CB TC T11V F&G	101+32.00	9.00	RT	898.28		894.11		
2-36	CB TC T11V F&G	102+54.00	6.06	RT	898.27				894.10
2-37	MAN TA 5 DIA T1F CL	102+54.00	59.00	RT	897.37	887.15	887.15	893.20	
2-38	CB TC T8G	103+23.00	72.24	LT	899.38				895.21
2-39	CB TA 4 DIA T11V F&G	103+23.00	2.14	LT	897.93			893.76	893.76
2-40	MAN TA 5 DIA T1F CL	103+23.00	63.00	RT	896.91	887.04	887.04	892.74	
2-41	CB TC T24F&G	103+87.00	64.92	LT	898.69				894.52
2-42	CB TA 4 DIA T11V F&G	103+87.00	9.92	LT	897.35			893.18	893.18
2-43	CB TA 4 DIA T24F&G	103+87.00	53.00	RT	895.89			891.72	891.72
2-44	MAN TA 5 DIA T1F CL	103+87.00	63.00	RT	896.20	886.44	886.94	891.69	
2-45	CB TC T11V F&G	104+81.00	15.00	LT	895.99				891.81
2-46	CB TA 4 DIA T11V F&G	104+81.00	8.83	LT	896.00			891.80	891.80
2-47	CB TA 5 DIA T24F&G	104+81.00	67.00	RT	894.62	886.32	886.32	890.45	
2-48	MAN TA 4 DIA T1F CL	95+54.05	67.88	RT	886.48	881.50		881.50	880.69
2-49	MAN TA 4 DIA T1F CL	99+17.53	95.51	RT	895.29			892.00	892.00
4-1	CB TC T24F&G	105+70.00	60.38	LT	895.48				891.30
4-2	CB TA 4 DIA T11V F&G	105+70.00	15.00	LT	894.01			889.83	889.83
4-3	CB TA 4 DIA T11V F&G	105+70.00	8.82	LT	894.01			889.82	889.82
4-4	CB TA 4 DIA T24F&G	105+70.00	62.13	RT	892.46			888.29	888.29
4-5	MAN TA 5 DIA T1F CL	105+70.00	72.00	RT	892.38	884.24	886.21	888.21	
4-6	CB TC T11V F&G	106+59.00	15.00	LT	891.66				887.49
4-7	CB TA 4 DIA T24F&G	106+59.00	65.00	RT	890.44			885.01	885.01
4-8	MAN TA 5 DIA T1F CL	106+59.00	75.00	RT	889.16	880.35	884.13	884.98	
4-9	CB TC T11V F&G	107+48.00	15.00	LT	888.75				884.55
4-10	MAN TA 6 DIA T1F CL	107+48.00	75.00	RT	886.47	874.17	880.24	882.30	
4-11	CB TC T24F&G	107+80.00	67.91	LT	888.83	883.11			
4-12	CB TA 4 DIA T8G	107+97.50	100.22	LT	887.22	880.50	882.96		
4-13	CB TA 4 DIA T8G	18+45.00	57.03	RT	884.62	878.17	880.11		
4-14	CB TC T11V F&G	108+18.00	15.00	LT	886.44				882.27
4-15	CB TA 4 DIA T11V F&G	108+18.00	9.00	LT	886.44			882.26	882.26
4-16	CB TA 4 DIA T24F&G	108+18.00	66.51	RT	885.35			880.41	880.41
4-17	MAN TA 6 DIA T1F CL	108+18.01	73.28	RT	884.56	874.10	874.10	880.39	
4-18	INLETS TA T24F&G	18+45.00	44.00	RT	885.69	876.38	878.13		
4-19	CB TC T11V F&G	19+15.00	5.60	LT	885.50			881.33	
4-20	CB TA 4 DIA T24F&G	18+45.00	39.10	LT	885.62	876.16	876.16		
4-21	MAN TA 5 DIA T1F CL	18+45.00	49.00	LT	885.78	875.34	875.79	875.66	880.98
4-22	PRC FLAR END SEC 24	110+23.14	170.64	LT	879.48		875.00		
4-23	PRC FLAR END SEC 36	110+52.10	147.40	LT	874.50				870.50
4-24	MAN TA 6 DIA T1F CL	110+63.17	79.43	LT	878.26	870.59		870.59	871.63
4-25	CB TA 5 DIA T11V F&G	110+61.00	9.00	LT	878.27			871.70	871.70
4-26	MAN TA 6 DIA T1F CL	110+61.00	61.00	RT	877.82		873.20	871.77	
4-27	MAN TA 4 DIA T1F CL	111+52.00	75.00	LT	876.36		870.87		870.87
4-28	CB TA 4 DIA T24F&G	111+52.00	65.00	LT	877.62			870.90	870.90
4-29	CB TA 4 DIA T11V F&G	111+52.00	9.00	RT	876.02			871.21	871.21
4-30	CB TC T24F&G	111+52.00	53.00	RT	874.90			871.38	
4-31	PRC FLAR END SEC 24	111+15.72	155.62	LT	867.53	865.54			
4-32	RESTRICTOR MANHOLE #3	111+36.76	146.16	LT	871.79	865.50	865.50		
4-33	PRC FLAR END SEC 24	111+74.89	129.40	LT	865.00		865.43		
4-34	CB TC T24F&G	113+66.00	53.00	RT	871.68				867.51
4-35	PRC FLAR END SEC 12	113+66.00	69.00	RT	871.93			867.46	
4-36	PRC FLAR END SEC 12	114+07.00	60.00	LT	874.27				868.36
4-37	CB TC T24F&G	114+07.00	9.21	LT	872.74			868.57	
4-38	PRC FLAR END SEC 18	114+00.00	88.61	RT	867.50	866.00			
4-39	PRC FLAR END SEC 18	114+70.00	86.27	RT	867.85		866.35		
4-40	GUTTER TURNOUT	115+55.00	53.00	RT	870.51				
4-41	GUTTER SAG OUTLET	116+45.71	53.00	RT	870.22				
4-42	INLETS TA T24F&G	116+50.71	15.00	LT	871.73	867.56			
4-43	PRC FLAR END SEC 12	116+60.71	60.00	LT	873.09				867.27
4-44	CB TA 4 DIA T24F&G	116+60.71	15.00	LT	871.73		867.53	867.45	867.45

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET		RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)
4-45	CB TC T24F&G	116+60.71	15.00	RT	871.73			867.56	
4-46	GUTTER SAG OUTLET	116+60.71	53.00	RT	870.21				
4-47	PRC FLAR END SEC 18	118+17.00	81.00	LT	873.07	866.22			
4-48	MAN TA 4 DIA T1F CL	118+50.00	60.62	LT	873.95	868.65	866.33		866.81
4-49	CB TC T24F&G	118+50.00	15.00	LT	872.70			867.00	
4-50	GUTTER TURNOUT	118+50.00	53.00	RT	871.18				
7-1	MAN TA 4 DIA T1F CL	121+00.00	60.26	LT	875.96		870.04	869.40	870.82
7-2	CB TC T24F&G	121+00.00	15.00	LT	874.40	870.23			
7-3	GUTTER TURNOUT	121+00.00	53.00	RT	873.18				
7-4	MAN TA 4 DIA T1F CL	123+50.00	63.00	LT	877.32		872.23	871.57	871.97
7-5	CB TA 4 DIA T24F&G	123+50.00	15.00	LT	876.70	872.42	872.42		
7-6	CB TC T24F&G	123+50.00	15.00	RT	876.70	872.53			
7-7	GUTTER TURNOUT	123+50.00	53.00	RT	875.18				
7-8	PRC FLAR END SEC 24	124+34.00	85.12	RT	873.22	871.22			
7-9	PRC FLAR END SEC 12	125+00.00	76.00	LT	875.81		874.64		
7-10	MAN TA 4 DIA T1F CL	125+00.00	63.00	LT	878.52	874.35		872.61	872.86
7-11	PRC FLAR END SEC 24	125+68.00	89.00	LT	875.32		873.32		
7-12	MAN TA 4 DIA T1F CL	125+68.00	63.00	LT	879.06	873.12		873.12	874.29
7-13	PRC FLAR END SEC 15	125+84.00	77.00	LT	875.69		873.21		
7-14	CB TC T24F&G	126+00.00	15.00	LT	878.70			874.53	
7-15	GUTTER TURNOUT	126+00.00	53.00	RT	877.18				
7-16	PRC FLAR END SEC 12	128+50.00	60.00	LT	882.07		876.24		
7-17	CB TA 4 DIA T24F&G	128+50.00	15.00	LT	880.70	876.42	876.42		
7-18	CB TC T24F&G	128+50.00	15.00	RT	880.70	876.53			
7-19	GUTTER TURNOUT	128+50.00	53.00	RT	879.18				
7-20	PRC FLAR END SEC 18	130+05.00	80.00	LT	881.71				876.53
7-21	MAN TA 4 DIA T1F CL	131+00.00	63.00	LT	883.32		878.34	876.98	879.06
7-22	CB TC T24F&G	131+00.00	15.00	LT	882.70	878.53			
7-23	GUTTER TURNOUT	131+00.00	53.00	RT	881.18				
7-24	CB TA 4 DIA T8G	132+15.00	78.41	LT	878.52		869.69		
7-25	PRC FLAR END SEC 24	132+15.00	90.90	RT	868.50	866.50			
7-26	MAN TA 4 DIA T1F CL	133+50.00	60.04	LT	885.89		880.28	880.28	880.66
7-27	CB TA 4 DIA T24F&G	133+50.00	15.00	LT	884.70	880.47	880.47		
7-28	CB TC T24F&G	133+50.00	15.00	RT	884.30	880.58			
7-29	GUTTER TURNOUT	133+50.00	53.00	RT	883.18				
8-1	MAN TA 4 DIA T1F CL	135+00.00	61.65	LT	886.59	881.39		881.39	
8-2	MAN TA 4 DIA T1F CL	135+10.00	110.00	LT	888.92		881.62		881.62
8-3	CB TC T24F&G	136+00.00	15.00	LT	886.70	882.46			
8-4	GUTTER TURNOUT	136+00.00	51.55	RT	885.24				
8-5	MAN TA 4 DIA T1F CL	136+13.00	89.00	LT	888.25		882.14	882.14	882.14
8-6	MAN TA 4 DIA T1F CL	138+50.00	63.00	LT	889.13		883.18	883.18	
8-7	CB TA 4 DIA T24F&G	138+50.00	15.00	LT	888.70	883.37	883.37		
8-8	CB TC T24F&G	138+50.00	8.08	RT	888.98	883.46			
8-9	GUTTER TURNOUT	138+50.00	46.02	RT	887.46				
8-10	PRC FLAR END SEC 24	139+93.00	140.76	LT	888.85		886.85		
8-11	PRC FLAR END SEC 24	139+84.00	84.00	RT	879.00	877.00			
8-12	CB TC T24F&G	141+00.00	53.00	LT	891.51		887.34		
8-13	CB TA 4 DIA T24F&G	141+00.00	15.00	LT	890.68	886.51	886.51		
8-14	CB TA 4 DIA T24F&G	141+00.00	3.00	RT	890.94	886.45	886.45		
8-15	CB TA 4 DIA T24F&G	141+00.00	41.00	RT	890.07	885.90	885.90		
8-16	MAN TA 5 DIA T1F CL	141+00.00	51.00	RT	890.37	885.87	878.03		879.80
8-17	PRC FLAR END SEC 24	141+00.00	71.00	RT	884.09	878.00			
8-18	RESTRICTOR MANHOLE #4	141+10.00	51.00	RT	890.41			879.83	880.50
8-19	CB TC T8G	142+86.00	65.27	LT	889.18		885.06		
8-20	CB TA 4 DIA T24F&G	142+86.00	53.00	LT	890.24	884.97	884.97		
8-21	CB TA 4 DIA T24F&G	142+86.00	41.00	RT	890.12	884.57	884.57		
8-22	MAN TA 6 DIA T1F CL	142+86.00	51.00	RT	890.45	884.54		880.67	880.67
8-23	CB TC T8G	144+38.00	61.08	LT	888.86		884.69		
8-24	CB TA 4 DIA T24F&G	144+38.00	53.00	LT	889.15	884.67	884.67		
8-25	CB TA 4 DIA T24F&G	144+38.00	15.00	LT	889.98	884.52	884.52		
8-26	CB TA 4 DIA T24F&G	144+38.00	3.00	RT	890.22	884.46	884.46		
8-27	CB TA 4 DIA T24F&G	144+38.00	41.00	RT	889.39	884.31	884.31		
8-28	MAN TA 6 DIA T1F CL	144+38.00	51.00	RT	889.70	884.28		880.82	880.82
8-29	CB TA 4 DIA T24F&G	146+75.00	53.00	LT	888.22		884.00		884.00
8-30	CB TA 4 DIA T24F&G	146+75.00	15.00	LT	889.05	883.85	883.85		
8-31	CB TA 4 DIA T24F&G	146+75.00	3.00	RT	889.29	883.79	883.79		
8-32	CB TA 4 DIA T24F&G	146+75.00	41.00	RT	888.46	883.64	883.64		884.24
8-33	MAN TA 6 DIA T1F CL	146+75.00	51.00	RT	888.77	883.61		881.05	881.05
8-34	INLETS TA T24F&G	146+85.00	53.00	LT	888.20			884.03	
8-35	INLETS TA T24F&G	146+85.00	41.00	RT	888.44			884.27	
8-36	CB TC T24F&G	149+01.00	53.00	LT	889.10		884.92		
8-37	CB TA 4 DIA T24F&G	149+01.00	41.00	RT	889.34	884.52	884.52		
8-38	MAN TA 6 DIA T1F CL	149+01.00	51.00	RT	889.65	884.49		881.27	881.27
9-1	CB TC T24F&G	150+59.00	53.00	LT	889.89		885.71		
9-2	CB TA 4 DIA T24F&G	150+59.00	15.00	LT	890.72	885.56	885.56		
9-3	CB TA 4 DIA T24F&G	150+59.00	3.00	RT	890.96	885.50	885.50		
9-4	CB TA 4 DIA T24F&G	150+59.00	41.00	RT	890.13	885.35	885.35		
9-5	MAN TA 6 DIA T1F CL	150+59.00	51.00	RT	890.44	885.32		881.42	881.42
9-6	CB TC T24F&G	152+16.00	53.00	LT	890.67		886.50		
9-7	CB TA 4 DIA T24F&G	152+16.00	41.00	RT	890.91	886.10	886.10		
9-8	MAN TA 6 DIA T1F CL	152+16.00	51.00	RT	891.22	886.07		881.57	
9-9	CB TC T24F&G	155+13.00	53.00	LT	890.78		886.60		
9-10	CB TA 4 DIA T24F&G	155+13.00	41.00	RT	891.02	886.20	886.20		
9-11	MAN TA 4 DIA T1F CL	155+13.00	51.00	RT	891.33	886.17			885.51
9-12	CB TC T24F&G	156+50.00	53.00	LT	890.09		885.92		
9-13	CB TA 4 DIA T24F&G	156+50.00	15.00	LT	890.92	885.77	885.77		
9-14	CB TA 4 DIA T24F&G	156+50.00	3.00	RT	891.16	885.71	885.71		
9-15	CB TA 4 DIA T24F&G	156+50.00	41.00	RT	890.33	885.56	885.56		
9-16	MAN TA 4 DIA T1F CL	156+50.00	51.00	RT	890.64	885.53		884.92	884.65
9-17	CB TC T24F&G	157+80.00	53.00	LT	889.44		885.27		
9-18	CB TA 4 DIA T24F&G	157+80.00	41.00	RT	889.68	884.87	884.87		
9-19	MAN TA 4 DIA T1F CL	157+80.00	51.00	RT	889.99	884.84		884.27	883.97
9-20	CB TC T24F&G	159+80.00	53.00	LT	888.44		884.27		
9-21	CB TA 4 DIA T24F&G	159+80.00	15.00	LT	889.27	884.12	884.12		
9-22	CB TA 4 DIA T24F&G	159+80.00	3.00	RT	889.51	884.06	884.06		
9-23	CB TA 4 DIA T24F&G	159+80.00	41.00	RT	888.68	883.91	883.91		
9-24	MAN TA 5 DIA T1F CL	159+80.00	51.00	RT	888.99	883.88		883.39	882.27
9-25	CB TC T24F&G	161+80.00	53.00	LT	887.44		883.27		
9-26	CB TA 4 DIA T24F&G	161+80.00	15.00	LT	888.27	883.12	883.12		
9-27	CB TA 4 DIA T24F&G	161+80.00	3.00	RT	888.51	883.06	883.06		

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PATRICK ENGINEERING INC. LISLE, ILLINOIS

USER NAME = jmackel@Chicago.RJ	DESIGNED - EYC	REVISED - ⚠ADDENDUM#1-10/29/10	
PLOT CONFIG= PDF(Grey_Largel.plt	DRAWN - JJS	REVISED -	
PLOT SCALE = 1=50	CHECKED - ADJ	REVISED -	
PLOT DATE = 10/22/2010	DATE - 8/2/2010	REVISED -	

MCHENRY COUNTY DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
RAKOW ROAD DRAINAGE SCHEDULE OF QUANTITIES

SCALE: NA | SHEET NO. DU 40 OF 47 | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	223
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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STORM SEWER SCHEDULE

PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)	TRENCH BACKFILL (CU YD)
1A	1-4	1-1	105	36	STORM SEW CL A 2 36	0.17	0.00
1B	1-2	BLIND.	3	12	STORM SEW CL A 1 12	0.50	0.00
1C	1-3	1-4	16	36	STORM SEW CL A 2 36	0.13	0.00
1D	1-5	1-4	4	12	STORM SEW CL A 2 12	2.50	0.00
1E	1-6	1-3	4	36	STORM SEW CL A 2 36	0.25	0.00
1F	1-7	1-5	5	12	STORM SEW CL A 2 12	2.00	1.04
1G	2-1	1-6	126	48	STORM SEW CL A 2 48	0.07	0.00
2A	2-2	2-1	11	12	STORM SEW CL A 2 12	0.45	0.00
2B	2-3	2-1	110	48	STORM SEW CL A 2 48	0.07	0.00
2C	2-4	2-3	7	48	STORM SEW CL A 2 48	0.14	0.00
2D	2-5	2-4	121	48	STORM SEW CL A 2 48	0.07	0.00
2E	2-6	2-5	8	12	STORM SEW CL A 2 12	0.44	0.00
2F	2-7	2-6	34	12	STORM SEW CL A 1 12	2.44	0.00
2G	2-8	2-9	41	12	STORM SEW CL A 1 12	2.12	0.00
2H	2-9	2-10	5	12	STORM SEW CL A 2 12	0.44	0.00
2I	2-11	2-5	100	42	STORM SEW CL A 2 42	0.08	0.00
2J	2-12	2-11	131	24	STORM SEW CL A 2 24	1.66	0.00
2K	2-13	2-12	9	12	STORM SEW CL A 2 12	0.67	0.00
2L	2-14	2-15	63	12	STORM SEW CL A 1 12	1.40	0.00
2M	2-15	2-48	6	12	STORM SEW CL A 2 12	0.83	0.00
2N	2-17	2-12	29	24	STORM SEW CL A 1 24	0.76	0.00
2O	2-21	2-17	138	18	STORM SEW CL A 2 18	0.67	0.00
2P	2-18	2-19	70	12	STORM SEW CL A 1 12	1.60	0.00
2Q	2-19	2-20	9	12	STORM SEW CL A 2 12	0.44	0.00
2R	2-22	2-21	14	12	STORM SEW CL A 2 12	0.44	0.00
2S	2-23	2-21	89	18	STORM SEW CL A 1 18	0.72	0.00
2T	2-24	2-23	92	15	STORM SEW CL A 2 15	0.49	0.00
2U	2-25	2-26	4	12	STORM SEW CL A 2 12	0.44	0.00
2V	2-28	2-27	42	12	STORM SEW CL A 2 12	0.60	6.77
2W	17-23	2-28	80	12	STORM SEW WM REQ 12	0.46	0.00
2X	2-29	2-30	45	12	STORM SEW CL A 2 12	0.44	5.98
2Y	2-30	2-31	127	12	STORM SEW CL A 2 12	0.44	0.00
2Z	2-31	2-34	36	12	STORM SEW CL A 2 12	0.44	0.00
2AA	2-33	2-34	13	24	STORM SEW CL A 2 24	0.38	0.00
2BB	2-32	2-33	42	24	STORM SEW CL A 2 24	0.33	26.90
2CC	17-20	2-32	107	24	STORM SEW CL A 2 24	1.25	0.00
2DD	2-35	2-32	37	12	STORM SEW WM REQ 12	0.44	0.00
2EE	2-34	2-37	160	24	STORM SEW CL A 2 24	0.17	0.00
2FF	2-36	2-37	49	12	STORM SEW CL A 1 12	1.84	0.00
2GG	2-37	2-40	66	24	STORM SEW CL A 2 24	0.17	0.00
2HH	2-38	2-39	67	12	STORM SEW CL A 1 12	2.16	0.00
2II	2-39	2-40	62	12	STORM SEW CL A 1 12	1.65	0.00
2JJ	2-40	2-44	60	24	STORM SEW CL A 2 24	0.17	0.00
2KK	2-41	2-42	51	12	STORM SEW CL A 1 12	2.63	0.00
2LL	2-42	2-43	59	12	STORM SEW CL A 1 12	2.47	0.00
2MM	2-43	2-44	6	12	STORM SEW CL A 2 12	0.44	0.00
2NN	2-44	2-47	91	30	STORM SEW CL A 2 30	0.13	0.00
2OO	2-45	2-46	3	12	STORM SEW CL A 1 12	0.44	0.00
2PP	2-46	2-47	72	12	STORM SEW CL A 1 12	1.87	0.00
2QQ	2-48	2-16	15	30	STORM SEW CL A 1 30	1.27	0.00
2RR	2-20	2-48	128	15	STORM SEW CL A 2 15	1.17	122.37
2SS	2-26	2-20	193	12	STORM SEW CL A 2 12	1.24	223.99
2TT	2-27	2-49	101	12	STORM SEW CL A 1 12	0.45	0.00
2UU	2-49	2-29	74	12	STORM SEW CL A 1 12	2.70	0.00
4A	2-47	4-5	86	30	STORM SEW CL A 2 30	0.13	0.00
4B	4-1	4-2	42	12	STORM SEW CL A 1 12	3.50	0.00
4C	4-2	4-3	3	12	STORM SEW CL A 1 12	0.44	0.00
4D	4-3	4-4	67	12	STORM SEW CL A 1 12	2.28	0.00
4E	4-4	4-5	6	12	STORM SEW CL A 1 12	1.33	0.00
4F	4-5	4-8	86	30	STORM SEW CL A 2 30	0.13	0.00
4G	4-6	4-7	76	12	STORM SEW CL A 2 12	3.27	13.72
4H	4-7	4-8	6	12	STORM SEW CL A 2 12	0.44	0.00
4I	4-8	4-10	85	30	STORM SEW CL A 2 30	0.13	0.00
4J	4-9	4-10	86	12	STORM SEW CL A 1 12	2.62	0.00
4K	4-10	4-17	67	36	STORM SEW CL A 2 36	0.10	0.00
4L	4-11	4-12	33	12	STORM SEW CL A 2 12	0.45	0.00
4M	4-12	4-13	58	12	STORM SEW CL A 2 12	0.67	0.00
4N	4-13	4-18	10	15	STORM SEW WM REQ 15	0.40	0.00
4O	4-14	4-15	2	12	STORM SEW CL A 1 12	0.44	0.00
4P	4-15	4-16	72	12	STORM SEW CL A 2 12	2.57	11.17
4Q	4-16	4-17	3	12	STORM SEW CL A 2 12	0.73	0.00
4R	4-17	4-26	240	30	STORM SEW WM REQ 30	0.37	92.16
4S	4-18	4-20	80	18	STORM SEW CL A 2 18	0.28	87.50
4T	4-20	4-21	6	18	STORM SEW CL A 2 18	6.23	0.00
4U	4-19	4-21	79	12	STORM SEW WM REQ 12	0.44	9.77
4V	4-21	4-22	88	24	STORM SEW CL A 2 24	0.40	0.00
4W	4-24	4-23	65	36	STORM SEW CL A 2 36	0.14	0.00
4X	4-25	4-24	67	36	STORM SEW CL A 1 36	0.10	22.66
4Y	4-26	4-25	66	36	STORM SEW CL A 1 36	0.10	16.51
4Z	4-27	4-24	85	15	STORM SEW CL A 2 15	0.33	0.00
4AA	4-28	4-27	6	12	STORM SEW CL A 2 12	0.50	0.00
4BB	4-29	4-28	70	12	STORM SEW CL A 2 12	0.44	19.72
4CC	4-30	4-29	40	12	STORM SEW CL A 2 12	0.42	0.00
4DD	4-31	4-32	20	24	STORM SEW CL A 2 24	0.20	0.00
4EE	4-32	4-33	38	24	STORM SEW CL A 2 24	0.18	0.00
4FF	4-34	4-35	12	12	STORM SEW CL A 2 12	0.44	0.00
4GG	4-37	4-36	47	12	STORM SEW CL A 2 12	0.44	8.70
4HH	4-39	4-38	67	18	STORM SEW CL A 1 18	0.52	0.00
4II	4-42	4-44	6	12	STORM SEW CL A 1 12	0.44	0.00
4JJ	4-44	4-43	41	12	STORM SEW CL A 2 12	0.44	7.37
4KK	4-45	4-44	26	12	STORM SEW CL A 1 12	0.44	0.00
4LL	4-48	4-47	35	18	STORM SEW CL A 2 18	0.31	0.00
4MM	4-49	4-48	42	12	STORM SEW CL A 2 12	0.45	12.51
4NN	7-1	4-48	247	18	STORM SEW CL A 2 18	0.30	0.00
7A	7-2	7-1	42	12	STORM SEW CL A 2 12	0.46	7.19
7B	7-4	7-1	247	18	STORM SEW CL A 2 18	0.30	0.00
7C	7-5	7-4	44	12	STORM SEW CL A 2 12	0.44	6.22
7D	7-6	7-5	26	12	STORM SEW CL A 1 12	0.44	0.00
7E	7-10	7-4	146	18	STORM SEW CL A 2 18	0.44	0.00
7F	7-9	7-10	9	12	STORM SEW CL A 1 12	3.23	0.00

STORM SEWER SCHEDULE

PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)	TRENCH BACKFILL (CU YD)
7G	7-12	7-10	64	15	STORM SEW CL A 2 15	0.41	0.00
7H	7-13	7-12	18	15	STORM SEW CL A 2 15	0.50	0.00
7I	7-14	7-12	54	12	STORM SEW CL A 2 12	0.44	6.93
7J	7-11	7-8	216	24	STORM SEW CL A 1 24	0.97	0.00
7K	7-17	7-16	41	12	STORM SEW CL A 2 12	0.44	7.13
7L	7-18	7-17	26	12	STORM SEW CL A 1 12	0.44	0.00
7M	7-21	7-20	93	18	STORM SEW CL A 2 18	0.48	0.00
7N	7-22	7-21	44	12	STORM SEW CL A 2 12	0.44	5.52
7O	7-26	7-21	247	15	STORM SEW CL A 2 15	0.49	0.00
7P	7-24	7-25	166	24	STORM SEW CL A 2 24	1.92	23.13
7Q	7-27	7-26	42	12	STORM SEW CL A 2 12	0.46	6.84
7R	7-28	7-27	26	12	STORM SEW CL A 1 12	0.44	0.00
7S	8-1	7-26	147	15	STORM SEW CL A 2 15	0.50	0.00
8A	8-2	8-1	46	15	STORM SEW CL A 2 15	0.50	0.00
8B	8-5	8-2	102	15	STORM SEW CL A 2 15	0.51	0.00
8C	8-3	8-5	72	12	STORM SEW CL A 2 12	0.44	8.71
8D	8-6	8-5	235	12	STORM SEW CL A 2 12	0.44	0.00
8E	8-7	8-6	44	12	STORM SEW CL A 2 12	0.43	9.46
8F	8-8	8-7	20	12	STORM SEW CL A 2 12	0.45	4.92
8G	8-10	8-11	221	24	STORM SEW CL A 1 24	4.46	0.00
8H	8-12	8-13	34	12	STORM SEW CL A 1 12	2.44	0.00
8I	8-13	8-14	14	12	STORM SEW CL A 2 12	0.44	1.85
8J	8-14	8-15	34	12	STORM SEW CL A 2 12	1.62	4.49
8K	8-15	8-16	6	12	STORM SEW CL A 2 12	0.44	0.00
8L	8-16	8-17	16	24	STORM SEW CL A 2 24	0.19	0.00
8M	8-18	8-16	6	24	STORM SEW CL A 2 24	0.90	0.00
8N	8-22	8-18	172	42	STORM SEW CL A 2 42	0.10	0.00
8O	8-19	8-20	9	12	STORM SEW CL A 2 12	1.01	0.80
8P	8-20	8-21	90	12	STORM SEW CL A 2 12	0.44	22.01
8Q	8-21	8-22	6	12	STORM SEW CL A 2 12	0.44	0.00
8R	8-28	8-22	148	42	STORM SEW CL A 2 42	0.10	0.00
8S	8-23	8-24	5	12	STORM SEW CL A 2 12	0.44	0.00
8T	8-24	8-25	34	12	STORM SEW CL A 2 12	0.44	6.74
8U	8-25	8-26	14	12	STORM SEW CL A 2 12	0.44	3.72
8V	8-26	8-27	34	12	STORM SEW CL A 2 12	0.44	8.34
8W	8-27	8-28	6	12	STORM SEW CL A 2 12	0.44	0.00
8X	8-33	8-28	233	36	STORM SEW CL A 2 36	0.10	0.00
8Y	8-29	8-30	34	12	STORM SEW CL A 2 12	0.44	5.81
8Z	8-30	8-31	14	12	STORM SEW CL A 2 12	0.44	3.33
8AA	8-31	8-32	34	12	STORM SEW CL A 2 12	0.44	7.42
8BB	8-32	8-33	6	12	STORM SEW CL A 2 12	0.44	0.00
8CC	8-34	8-29	6	12	STORM SEW CL A 1 12	0.44	0.00
8DD	8-35	8-32	6	12	STORM SEW CL A 1 12	0.44	0.00
8EE	8-36	8-33	222	36	STORM SEW CL A 2 36	0.10	0.00
8FF	8-36	8-37	90	12	STORM SEW CL A 2 12	0.44	13.30
8GG	8-37	8-38	6	12	STORM SEW CL A 2 12	0.44	0.00
8HH	9-5	8-38	154	36	STORM SEW CL A 2 36	0.10	0.00
9A	9-1	9-2	34	12	STORM SEW CL A 2 12	0.44	5.65
9B	9-2	9-3	14	12	STORM SEW CL A 2 12	0.44	3.27
9C	9-3	9-4	34	12	STORM SEW CL A 2 12	0.44	7.26
9D	9-4	9-5	6	12	STORM SEW CL A 2 12	0.44	0.00
9E	9-8	9-5	153	36	STORM SEW CL A 2 36	0.10	0.00
9F	9-6	9-7	90	12	STORM SEW CL A 2 12	0.44	13.30
9G	9-7	9-8	6	12	STORM SEW CL A 2 12	0.44	0.00
9H	9-9	9-10	90	12	STORM SEW CL A 2 12	0.44	13.35
9I	9-10	9-11	6	12	STORM SEW CL A 2 12	0.44	0.01
9J	9-11	9-16	133	12	STORM SEW CL A 2 12	0.44	0.38
9K	9-12	9-13	34	12	STORM SEW CL A 2 12	0.44	5.63
9L	9-13	9-14	14	12	STORM SEW CL A 2 12	0.44	3.26
9M	9-14	9-15	34	12	STORM SEW CL A 2 12	0.44	7.24
9N	9-15	9-16	6	12	STORM SEW CL A 2 12	0.44	0.00
9O	9-16	9-19	126	18	STORM SEW CL A 2 18	0.30	0.00
9P	9-17	9-18	90	12	STORM SEW CL A 2 12	0.44	13.30
9Q	9-18	9-19	6	12	STORM SEW CL A 2 12	0.44	0.00
9R	9-19	9-24	196	18	STORM SEW CL A 2 18	0.30	0.00
9S	9-20	9-21	34	12	STORM SEW CL A 2 12	0.44	5.63
9T	9-21	9-22	14	12	STORM SEW CL A 2 12	0.44	3.26
9U	9-22	9-23	34	12	STORM SEW CL A 2 12	0.44	7.24
9V	9-23	9-24	6	12	STORM SEW CL A 2 12	0.44	0.00
9W	9-24	9-29	196	24	STORM SEW CL A 2 24	0.30	0.00
9X	9-25	9-26	34	12	STORM SEW CL A 2 12	0.44	5.63
9Y	9-26	9-27	14	12	STORM SEW CL A 2 12	0.44	3.26
9Z	9-27	9-28	34	12	STORM SEW CL A 2 12	0.44	7.24
9AA	9-28	9-29	6	12	STORM SEW CL A 2 12	0.44	0.00
9BB	9-29	9-32	140	24	STORM SEW CL A 2 24	0.19	0.00
9CC	9-30	9-31	150	24	STORM SEW CL A 1 24	3.43	0.00
9DD	9-32	9-33	18	24	STORM SEW CL A 2 24	0.22	0.00
9EE	9-34	9-35	34	12	STORM SEW CL A 2 12	0.44	5.63
9FF	9-35	9-36	15	12	STORM SEW CL A 2 12	0.44	3.50
9GG	9-36	9-37	40	12	STORM SEW CL A 2 12	0.44	8.28
9HH	9-37	9-38	9	12	STORM SEW CL A 2 12	0.44	0.00
9II	9-40	9-39	52	12	STORM SEW CL A 1 12	2.02	0.00
9JJ	9-39	10-1	103	15	STORM SEW CL A 1 15	0.32	0.00
10A	10-2	10-1	6	12	STORM SEW CL A 1 12	0.44	0.00
10B	10-3	10-2	43	12	STORM SEW CL A 2 12	0.44	8.26
10C	10-4	10-5	8	12	STORM SEW CL A 2 12	0.44	0.00
10D	10-1	10-7	210	18	STORM SEW CL A 1 18	0.26	0.00
10E	10-6	10-7	1	12	STORM SEW CL A 1 12	2.00	0.00
10F	10-8	10-7	4	12	STORM SEW CL A 2 12	0.75	0.00
10G	10-9	10-8	48	12	STORM SEW CL A 2 12	0.44	0.00
10H	10-10	10-11	8	12	STORM SEW CL A 2 12	0.44	0.00
10I	10-7	10-14	56	24	STORM SEW CL A 1 24	0.23	0.00
10J	10-12	10-8	7	12	STORM SEW CL A 1 12	0.44	0.00
10K	10-13	10-10	6	12	STORM SEW CL A 1 12	0.44	0.00
10L	10-14	20-5	29	24	STORM SEW CL A 1 24	0.21	0.00
10M	10-15	20-5	12	12	STORM SEW CL A 1 12	0.44	0.00
10N	10-16	10-15	42	12	STORM SEW CL A 1 12	0.44	0.00
10O	10-17	10-19	19	12	STORM SEW CL A 2 12	0.47	0.00
10P	10-18	10-20	25	12	STORM SEW CL A 2 12	0.49	0.00
10Q	10-19	10-22	98	30	STORM SEW CL A 2 30	0.13	0.00

PATRICK ENGINEERING INC. LISLE, ILLINOIS

USER NAME = jsacke@Chicago.RD	DESIGNED - EYC	REVISED - ⚠ADDENDUM#1-10/29/10			
PLOT CONFIG= PDFGrey_Large.plt	DRAWN - JJS	REVISED -			
PLOT SCALE = 1:50	CHECKED - ADJ	REVISED -			
PLOT DATE = 10/22/2010	DATE - 8/2/2010	REVISED -			

MCHENRY COUNTY DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
RAKOW ROAD DRAINAGE SCHEDULE OF QUANTITIES

SCALE: NA | SHEET NO. DU 43 OF 47 | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	226
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

P:\Chicago\MCDOT\20950.001\Drawings\RDWY\shts\Dra\S_Dra_Sched_01.dgn

WATER MAINS TO BE ADJUSTED				
	MAIN TYPE	STATION		EACH
RAKOW RD.	WATER	229+40	LT	1
RAKOW RD.	WATER	230+93	LT	1
TOTAL				2

1

FIRE HYDRANTS TO BE ADJUSTED				
	STRUCTURE TYPE	STATION		EACH
RAKOW RD.	FIRE HYDRANT	101+21.2	RT	1
RAKOW RD.	FIRE HYDRANT	238+11	LT	1
RAKOW RD.	FIRE HYDRANT	234+04.4	LT	1
RAKOW RD.	FIRE HYDRANT	238+34	LT	1
ACKMAN RD.	FIRE HYDRANT	10+34	RT	1
MCHENRY AVE.	FIRE HYDRANT	8+06	RT	1
MCHENRY AVE.	FIRE HYDRANT	11+02.6	RT	1
MCHENRY AVE.	FIRE HYDRANT	18+65.1	RT	1
MCHENRY AVE.	FIRE HYDRANT	21+57.6	RT	1
PINGREE RD.	FIRE HYDRANT	18+73	RT	1
PINGREE RD.	FIRE HYDRANT	25+30	RT	1
PINGREE RD.	FIRE HYDRANT	52+40	RT	1
IL ROUTE 31	FIRE HYDRANT	53+72	LT	1
TOTAL				13

FIRE HYDRANTS TO BE RELOCATED				
	STRUCTURE TYPE	STATION		EACH
ACKMAN RD.	FIRE HYDRANT	18+65.9	RT	1
ACKMAN RD.	FIRE HYDRANT	14+65.2	RT	1
RAKOW RD.	FIRE HYDRANT	225+13.4	LT	1
IL ROUTE 31	FIRE HYDRANT	51+06	LT	1
MCHENRY AVE.	FIRE HYDRANT	15+75.7	RT	1
VIRGINIA RD.	FIRE HYDRANT	52+76.7	RT	1
VIRGINIA RD.	FIRE HYDRANT	54+94.3	RT	1
TOTAL				7

SAN MH TO BE RECONSTRUCTED				
	STRUCTURE TYPE	STATION		EACH
RAKOW RD.	SAN. MH	109+81.5	LT	1
PINGREE RD.	SAN. MH	49+45	RT	1
PINGREE RD.	SAN. MH	49+71	RT	1
TOTAL				1

SANITARY MANHOLES TO BE ADJUSTED				
	STRUCTURE TYPE	STATION		EACH
MCHENRY AVE.	SAN. MH	10+58	LT	1
MCHENRY AVE.	SAN. MH	13+82.1	LT	1
MCHENRY AVE.	SAN. MH	18+61	LT	1
RAKOW RD.	SAN. MH	99+26	RT	1
RAKOW RD.	SAN. MH	109+81.5	RT	1
RAKOW RD.	SAN. MH	170+00	RT	1
RAKOW RD.	SAN. MH	171+45	RT	1
RAKOW RD.	SAN. MH	230+19.1	RT	1
RAKOW RD.	SAN. MH	232+11.8	RT	1
RAKOW RD.	SAN. MH	247+90.1	LT	1
RAKOW RD.	SAN. MH	247+90.6	LT	1
RAKOW RD.	SAN. MH	247+81.4	RT	1
VIRGINIA RD.	SAN. MH	54+92	LT	1
VIRGINIA RD.	SAN. MH	57+92	LT	1
PYOTT RD.	SAN. MH	47+17	RT	1
PYOTT RD.	SAN. MH	52+01.4	RT	1
PYOTT RD.	SAN. MH	53+53.1	RT	1
PYOTT RD.	SAN. MH	58+84.9	RT	1
TOTAL				17

VALVE VAULTS TO BE RECONSTRUCTED				
	STRUCTURE TYPE	STATION		EACH
RAKOW RD.	VALVE VAULT	101+21.2	LT	1
TOTAL				1

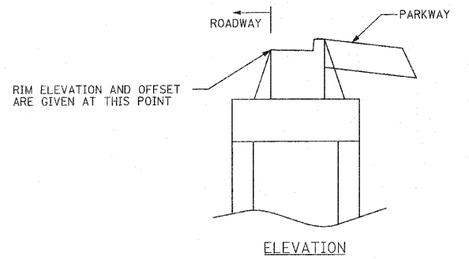
WATER VALVES TO BE ADJUSTED			
	STATION		EACH
ACKMAN RD.	12+65.0	RT	1
ACKMAN RD.	14+89	RT	1
MCHENRY AVE.	18+56	RT	1
RAKOW RD.	100+02	LT	1
RAKOW RD.	101+18	RT	1
RAKOW RD.	109+64	RT	1
RAKOW RD.	109+70	RT	1
RAKOW RD.	222+83	RT	1
RAKOW RD.	223+01.0	LT	1
RAKOW RD.	231+86.4	RT	1
RAKOW RD.	235+68	RT	1
RAKOW RD.	236+26	RT	1
RAKOW RD.	248+07	LT	1
RAKOW RD.	248+09	LT	1
PINGREE RD.	24+38.5	RT	1
PINGREE RD.	24+51	RT	1
TOTAL			16

NOTE: WATER VALVES TO BE ADJUSTED TO BE PAID FOR AS EITHER VALVE BOXES TO BE ADJUSTED OR FRAMES AND LIDS TO BE ADJUSTED AS APPROPRIATE.

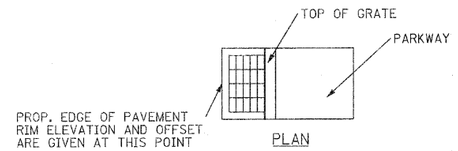
FRAMES AND GRATES TO BE ADJUSTED				
	STRUCTURE TYPE	STATION		EACH
IL ROUTE 31	CATCH BASIN	52+00.9	LT	1
IL ROUTE 31	INLET	52+09.6	LT	1
TOTAL				2

FRAMES AND LIDS TO BE ADJUSTED				
	STRUCTURE TYPE	STATION		EACH
IL ROUTE 31	MANHOLE	56+11.0	LT	1
	WATER VALVE*			8
TOTAL				9

* SEE NOTE ABOVE REGARDING WATER VALVES TO BE ADJUSTED.



ELEVATION

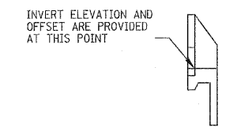


PLAN

DRAINAGE STRUCTURE LAYOUT DETAIL

*AS NOTED IN GENERAL NOTES

*OFFSETS FOR THE DRAINAGE STRUCTURES NOTED IN THE PLANS ARE AT EDGE OF PAVEMENT FOR DRAINAGE STRUCTURES WITHIN THE PAVEMENT. FOR DRAINAGE STRUCTURES OUTSIDE THE PAVEMENT, THE OFFSETS ARE TO THE CENTER OF OPENING.



FLARED END SECTION AND HEADWALL DETAIL

PATRICK ENGINEERING INC. LISLE, ILLINOIS

USER NAME = jmacke(Chicago_R)	DESIGNED - EYC	REVISED - ⚠ADDENDUM#1-10/29/10
PLOT CONFIG= PDF(Grey_Large).plt	DRAWN - JJS	REVISED -
PLOT SCALE = 1:50	CHECKED - ADJ	REVISED -
PLOT DATE = 10/22/2010	DATE - 8/2/2010	REVISED -

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31
RAKOW ROAD DRAINAGE SCHEDULE OF QUANTITIES

SCALE: NA | SHEET NO. DU 47 OF 47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00308-00-WR	MCHENRY	606	230
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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LEGEND:

- TEMPORARY EROSION CONTROL SEEDING W/HEAVY DUTY EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER
- INLET FILTERS
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION

N

PROP. ℄ RAKOW ROAD

EXIST. R.O.W.

80+00

85+00

30" RCP

12" RCP

12" RCP

6" PVC

48" PVC

PROP. R.O.W.

MATCH LINE STA. 90+00

BEGIN PROJECT
STA. 86+42.45

EXIST. R.O.W.

PROP. R.O.W.

SEE ERO-8 FOR CONTINUATION

N

PROP. ℄ RAKOW ROAD

8" CPP

15" RCP

6" PVC

PROP. R.O.W.

MATCH LINE STA. 90+00

90+00

95+00

EXIST. R.O.W.

PROP. R.O.W.

100+00

200'

PROP. R.O.W.

EXIST. R.O.W.

MATCH LINE STA. 105+00

END IMPROVEMENT
STA. 21+87.44

PATRICK ENGINEERING INC. LISLE, ILLINOIS	USER NAME = jnackel\Chicago_RD	DESIGNED - D. DOERFLER	REVISED - ⚠ADDENDUM#1-10/29/10	MCHENRY COUNTY DIVISION OF TRANSPORTATION	RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31 EROSION AND SEDIMENT CONTROL
	PLOT CONFIG= PDF(Grey_Large).plt	DRAWN - D. DOERFLER	REVISED -		
	PLOT SCALE = 1:50	CHECKED - E. CHOW	REVISED -		
	PLOT DATE = 10/22/2010	DATE - 8/2/2010	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	289
		CONTRACT NO. 63398		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE: 1"=50' | SHEET NO. ERO 1 OF 19 | STA. PROJ. STAR TO STA. 105+00

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INTERCONNECT SCHEMATIC LEGEND

EXISTING INTERSECTION CONTROLLER	EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
PROPOSED INTERSECTION CONTROLLER	PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
EXISTING MASTER CONTROLLER	EXISTING INTERCONNECT CABLE – NO. 62.5/125 12F FIBER OPTIC CABLE
PROPOSED MASTER CONTROLLER	PROPOSED FIBER OPTIC CABLE IN CONDUIT, 62.5/125 12F FIBER OPTIC CABLE
MASTER MASTER CONTROLLER	EXISTING INTERCONNECT CABLE – NO. 18 3 PAIR TWISTED, SHIELDED
EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS	PROPOSED INTERCONNECT CABLE – NO. 18 3 PAIR TWISTED, SHIELDED
PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
EXISTING INTERSECTION LOOP DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS	PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
EXISTING SAMPLING (SYSTEM) DETECTORS	EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)
PROPOSED SAMPLING (SYSTEM) DETECTORS	PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)
EXISTING SAMPLING (SYSTEM) DETECTORS. PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS	EXISTING INTERCONNECT CABLE – NO. 62.5/125, 36F FIBER OPTIC CABLE
EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS	PROPOSED FIBER OPTIC CABLE IN CONDUIT – NO. 62.5/125, MM12F SM24F
EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	PROPOSED INTERCONNECT CABLE – NO. 62.5/125, MM12F SM12F
PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	EXISTING INTERCONNECT CABLE – NO. 62.5/125, MM12F SM12F
EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS	EXISTING TELEPHONE CONNECTION
PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS	PROPOSED TELEPHONE CONNECTION
	EXISTING ISDN TELEPHONE CONNECTION
	PROPOSED ISDN TELEPHONE CONNECTION

SCHEDULE OF QUANTITIES

TRAFFIC SIGNAL INTERCONNECT - JAMES R. RAKOW RD. FROM ACKMAN RD./MEREDITH DR. TO IL RTE 31

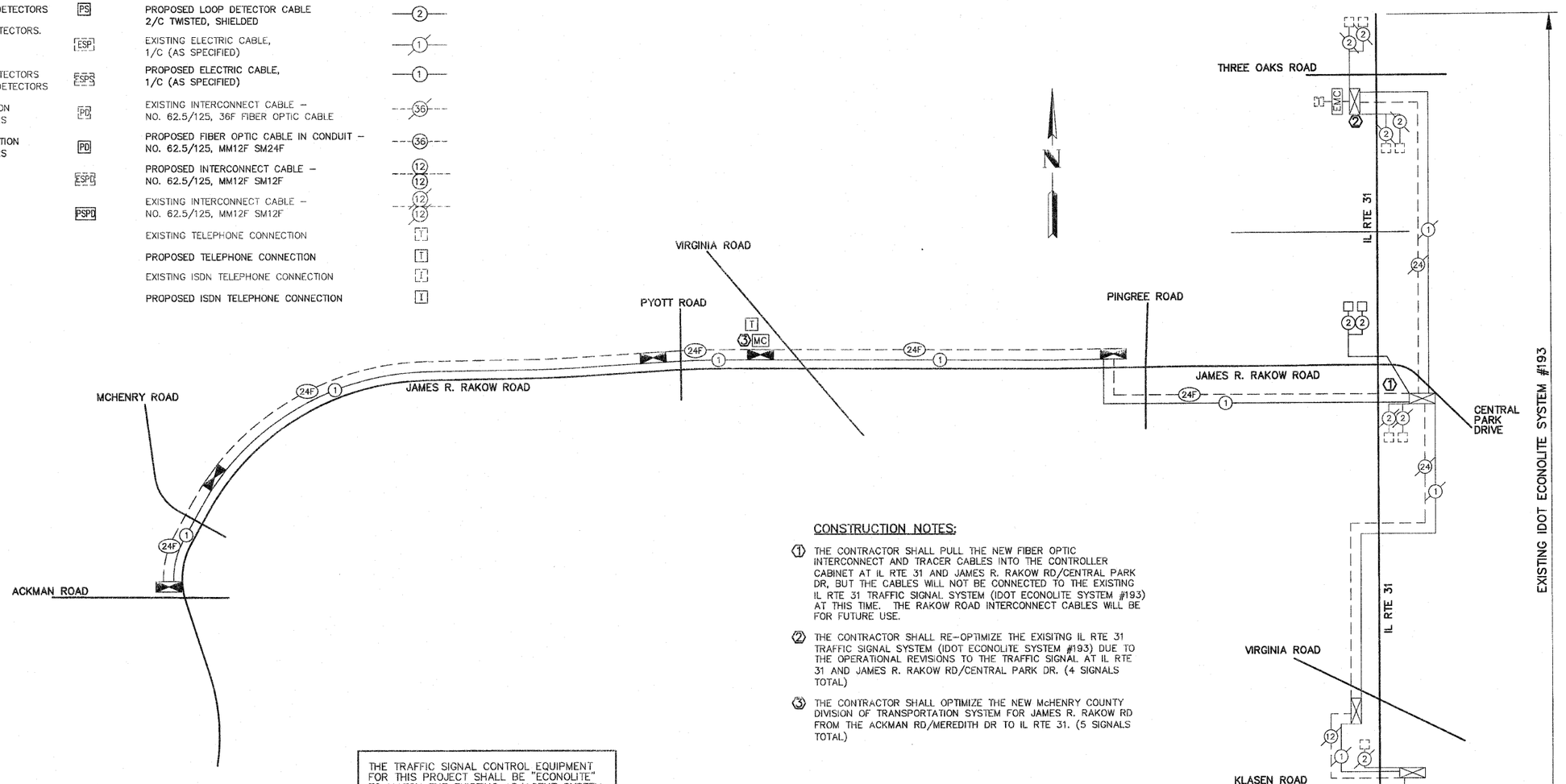
NO.	QUANT.	UNIT	
1.	3,697	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
2.	10,298	FOOT	CONDUIT IN TRENCH, 2" DIA., COILABLE NONMETALLIC CONDUIT
3.	395	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
4.	23	EACH	HANDHOLE
5.	14,070	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
6.	1	EACH	MASTER CONTROLLER (SPECIAL)
7.	15,691	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
8.	1	EACH	OPTIMIZE TRAFFIC SIGNAL SYSTEM
9.	4	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2
10.	15,691	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F

1

SCHEDULE OF QUANTITIES

MISCELLANEOUS COMMUNICATION CONDUIT

NO.	QUANT.	UNIT	
1.	14,126	FOOT	CONDUIT IN TRENCH, 2" DIA., COILABLE NONMETALLIC CONDUIT
2.	877	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
3.	33	EACH	GULFBOX JUNCTION, COMPOSITE CONCRETE
4.	14,126	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
5.	15,003	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL PULL THE NEW FIBER OPTIC INTERCONNECT AND TRACER CABLES INTO THE CONTROLLER CABINET AT IL RTE 31 AND JAMES R. RAKOW RD/CENTRAL PARK DR, BUT THE CABLES WILL NOT BE CONNECTED TO THE EXISTING IL RTE 31 TRAFFIC SIGNAL SYSTEM (IDOT ECONOLITE SYSTEM #193) AT THIS TIME. THE RAKOW ROAD INTERCONNECT CABLES WILL BE FOR FUTURE USE.
2. THE CONTRACTOR SHALL RE-OPTIMIZE THE EXISITNG IL RTE 31 TRAFFIC SIGNAL SYSTEM (IDOT ECONOLITE SYSTEM #193) DUE TO THE OPERATIONAL REVISIONS TO THE TRAFFIC SIGNAL AT IL RTE 31 AND JAMES R. RAKOW RD/CENTRAL PARK DR. (4 SIGNALS TOTAL)
3. THE CONTRACTOR SHALL OPTIMIZE THE NEW McHENRY COUNTY DIVISION OF TRANSPORTATION SYSTEM FOR JAMES R. RAKOW RD FROM THE ACKMAN RD/MEREDITH DR TO IL RTE 31. (5 SIGNALS TOTAL)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA GEWALT HAMILTON ASSOCIATES, INC.
850 Forest Edge Drive ▪ Vernon Hills, IL. 60061
Consulting Engineers & Surveyors
847-478-9700
FAX: 847-478-9701

PATRICK ENGINEERING INC.
LISLE, ILLINOIS

FILE NAME = 4153.800-trl.dwg	USER NAME = GHA	DESIGNED - DPB	REVISED - 10/29/2010 1	MCHENRY COUNTY DIVISION OF TRANSPORTATION	INTERCONNECT SCHEMATIC
		DRAWN - ZCW	REVISED -		JAMES R. RAKOW RD. - ACKMAN RD./MEREDITH DR. TO IL RTE 31
	PLOT SCALE = N.T.S.	CHECKED - DPB	REVISED -		SCALE N.A. | SGNL. SHEET # 56 OF 65 SHEETS | STA. | TO STA.
	PLOT DATE = 8/2/10	DATE - 8/2/10	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-WR	McHENRY	606	365
		CONTRACT #: 63398		
	ILLINOIS | FED. AID PROJECT			