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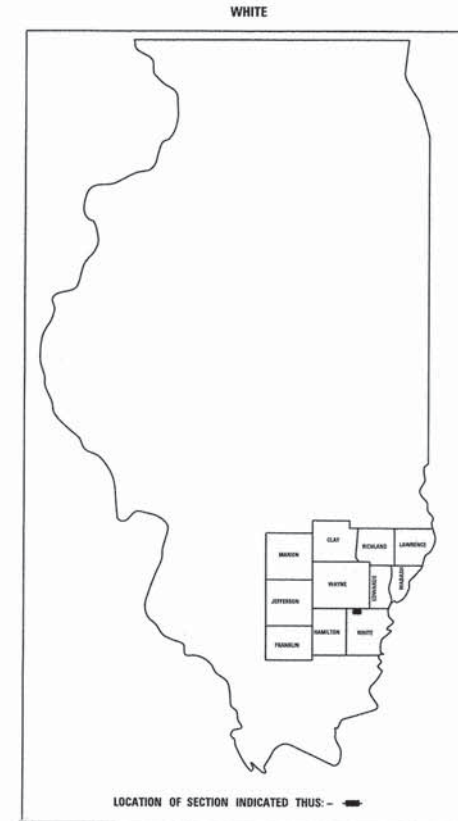
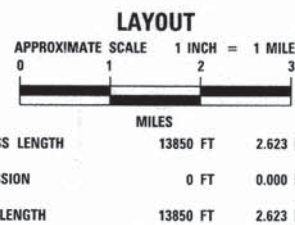
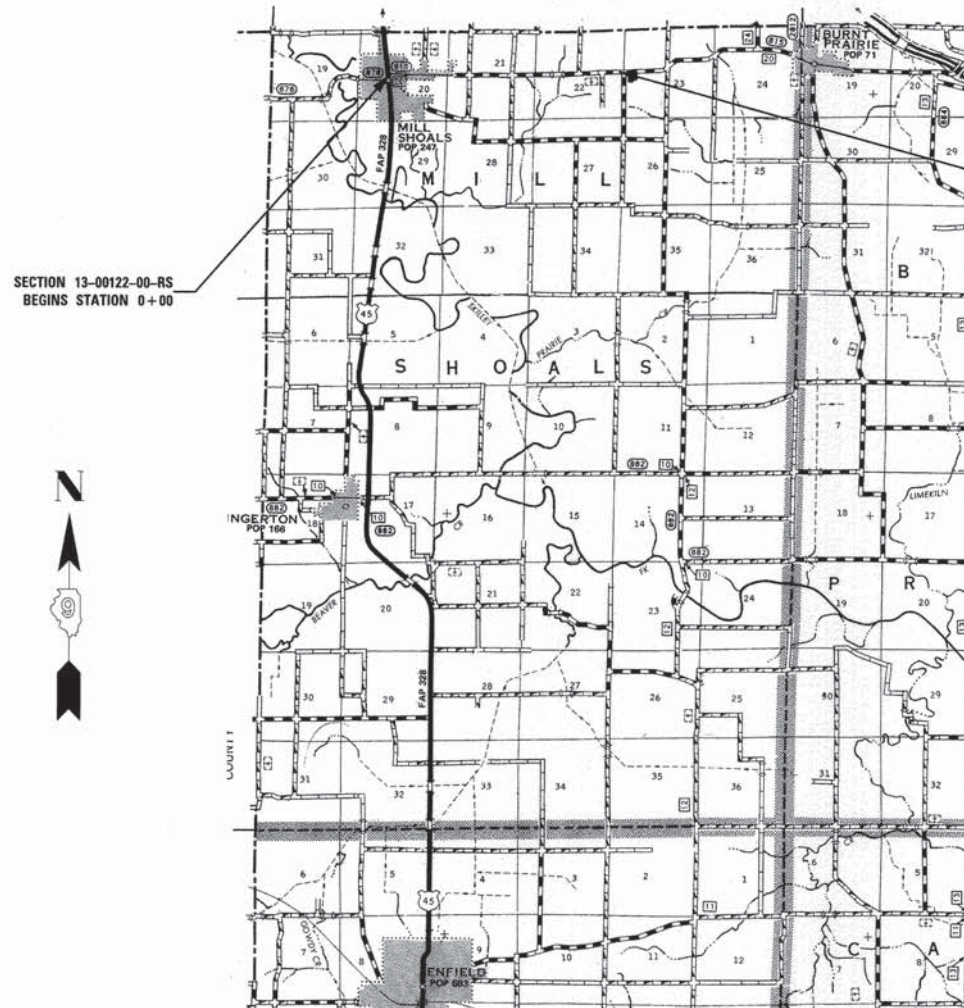
SUMMARY OF QUANTITIES			
ITEM	UNIT	TOTAL QUANTITY	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	18.0
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16.0
20101100	TREE TRUNK PROTECTION	EACH	1.0
21400100	GRADING AND SHAPING DITCHES	FOOT	1984.0
26100807	STONE DUMPED RIPRAP, CLASS A4	TON	36.0
26100809	STONE DUMPED RIPRAP, CLASS A5	TON	2042.0
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	835.6
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	20.0
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3124.0
40600982	HOY-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	54.4
40600990	TEMPORARY RAMP	SQ YD	8.9
40603085	HOY-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	5875.0
40603315	HOY-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	3004.0
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	734.5
42001200	PAVEMENT FABRIC	SQ YD	734.5
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	148.0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	120.0
42400900	DETECTABLE WARNINGS	SQ FT	32.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	2162.0
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1.0
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1.0
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2.0
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	3.0
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	3.0
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	2.0
54214533	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 48"	EACH	2.0
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	20.0
542A5486	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	40.0
542A5503	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 48"	FOOT	30.0
550A0250	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	8.0
550A0270	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	8.0
550A0290	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	61.0
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	283.0
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	74.0
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	79.0
550A4300	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	267.0
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	30.0
60218000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE B GRATE	EACH	3.0
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE B GRATE	EACH	5.0
60235500	MANHOLES TO BE ADJUSTED	EACH	1.0
67100100	MOBILIZATION	L SUM	1.0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1.0
70300100	SHORT TERM PAVEMENT MARKINGS	FOOT	4155.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3695.0
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	14.0
X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER	EACH	1.0
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	2.0
X0358300	REMOVE AND RELAY END SECTIONS	EACH	1.0
X0209110	GRADING AND SHAPING SHOULDERS	UNIT	2.0
X0003140	SHORT TERM PAVEMENT MARKING REMOVAL	FOOT	1385.0
X0127400	PAVEMENT REMOVAL AND REPLACEMENT (SPECIAL)	TON	116.0
X0001035	REMOVE AND RELAY STORM SEWER 30"	FOOT	48.0

\* SECURITY STENCILS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL-AID  
S.T.R. & T.A.R.P. PROJECT

F.A.S. 815(CH 20) SECTION 13-00122-00-RS WHITE COUNTY  
PROJECT RS-815(110) JOB NO. C-99-500-14



DESIGN CLASS - RURAL MAJOR COLLECTOR  
DESIGN SPEED = 50 MPH  
CURRENT A.D.T. = 550  
CONTRACT # = 99533



Know what's below.  
Call before you dig.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED March 30, 2015  
David A. Ray  
COUNTY ENGINEER

PASSED April 3, 2015  
Devi W. Hill  
ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW: April 3, 2015

Jeffrey L. Keirn  
JEFFREY L. KEIRN, P.E.  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION FIVE ENGINEER

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	13-00122-00-RS	WHITE	11	1

FED. ROAD DIST. NO. 1	ILLINOIS	MILL SHOALS ROAD
LEC JOB # H141002WH		CONTRACT # 99533

323 W. 3RD ST.  
P.O. BOX 160  
MT. CARMEL, IL  
62863  
PHONE: (618)-262-8651  
FAX: (618)-263-3327

405 W. STATE ST.  
SUITE 1  
PRINCETON, IN  
47670  
PHONE: (812)-386-7611  
FAX: (812)-385-2812



PROFESSIONAL DESIGN FIRM  
LAND SURVEY & PROFESSIONAL ENGINEERING CORPORATION  
184-000887  
(62-032435)(35-002769)

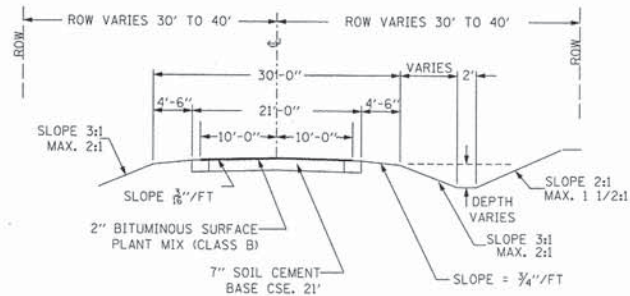


MICHAEL L. GILL  
NAME  
Michael L. Gill  
SIGNATURE  
5-31-15  
DATE  
11-30-15  
EXPIRES

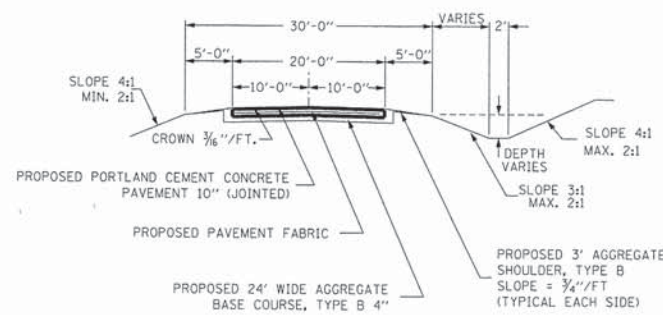


F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B15	13-09122-00-RS	WHITE	11	2
FED. ROAD DIST. NO. 1		ILLINOIS	MILL SHOALS ROAD	
LEC JOB # H141002WH			CONTRACT # 99533	

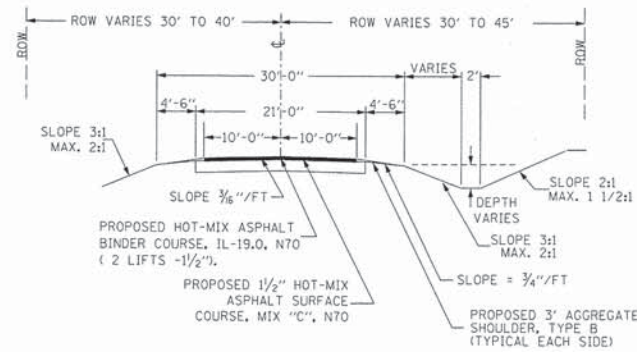
**TYPICAL CROSS SECTION EXISTING**



**TYPICAL CROSS SECTION PROPOSED (STA 0+00 TO STA 1+66.29)**



**TYPICAL CROSS SECTION PROPOSED (STA 1+66.29 TO STA 138+50)**



**GENERAL NOTES:**

THIS SECTION CONSISTS OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL, HOT-MIX ASPHALT BINDER COURSE, N70, AND HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, AGGREGATE SHOULDERS, AND OTHER MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE PROJECT. ALL IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012.

THE EXISTING GRADE, ALIGNMENT, DRAINAGE STRUCTURES, BASE AND SURFACE WERE CONSTRUCTED UNDER SECTIONS 23-0 AND 93-00076-00-RS AND SHALL REMAIN IN PLACE. ALL STATIONS REFERRED TO IN THE PLANS AND PROPOSAL ARE REFERENCED TO THE ABOVE MENTIONED SECTIONS.

MAXIMUM PERCENT OF GRADE	+5.33 %
MINIMUM STOPPING SIGHT DISTANCE	482.50 FT
DESIGN SPEED	50 MPH
CURRENT ADT	550 VPD
DESIGN ADT (20 YEAR)	726 VPD

THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 SHALL BE PLACED IN ONE LIFT WITH A MINIMUM THICKNESS OF 1 1/2".

THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 ALLOWS 212 TON FOR THE INTERSECTIONS, SIDEROADS, AND TAPERS; 181 TON FOR THE ENTRANCES; 56 TON FOR THE MAILBOX TURNOUTS, AND 2555 TON FOR THE MAIN LINE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70.

THE FOLLOWING RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

AGGREGATE SHOULDERS TY. B	1.8 T / CU YD
HOT-MIX ASPHALT	0.0560 T / SQ YD • INCH
BITUMINOUS MATERIAL (PRIME COAT)	
FIRST LIFT	0.05 LBS / SQ YD
REMAINING LIFTS	0.025 LBS / SQ YD

ALL EXISTING STORM SEWER AND END SECTIONS AT THE INTERSECTION OF COUNTY HIGHWAY 20 AND ILLINOIS ROUTE 45 THAT ARE TO BE REMOVED AND DEEMED FIT BY THE ENGINEER FOR USE ON OTHER COUNTY HIGHWAYS SHALL BE REMOVED WITH MINIMUM DAMAGE AND STORED ALONG THE RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE PAY ITEM GRADING AND SHAPING SHOULDERS AND NO OTHER COMPENSATION WILL BE ALLOWED.

**SCHEDULE OF AGGREGATE SHOULDER STONE IN TANGENT**

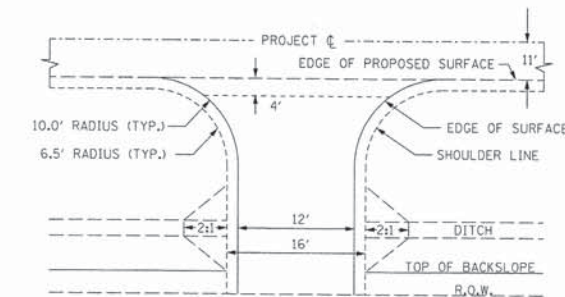
STATION TO	STATION	LOCATION	ALLOWED TONS EST. QUANTITY
0+00	138+00	LT.	997.7
0+00	138+50	RT	1164.0
		TOTAL	2161.7

THE ABOVE QUANTITY IS FOR THE ENTIRE SECTION AND IS INCLUDED IN THE QUANTITY FOR AGGREGATE SHOULDERS, TYPE B IN THE SUMMARY OF QUANTITIES.

**HIGHWAY STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
- 406201-01 MAILBOX TURNOUT
- 420001-08 PAVEMENT JOINTS
- 420701-02 PAVEMENT FABRIC
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542306-02 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
- 602401-03 MANHOLE TYPE A
- 602601-03 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 604036-03 GRATE TYPE 8
- 701006-05 OFF-RD OPERATIONS, 2-L, 2-W, 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS,
- 701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701336-06 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
- 701901-04 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

**DETAIL OF PRIVATE AND FIELD ENTRANCES**



NOTE: THE 4' AREA FROM THE EDGE OF SURFACE, AS SHOWN ABOVE, SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 FOR THE PRIVATE ENTRANCES AND THE FIELD ENTRANCES. THIS QUANTITY IS INCLUDED IN THE QUANTITY FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70.

**UTILITIES**

J.U.L.I.E.  
800-892-0123

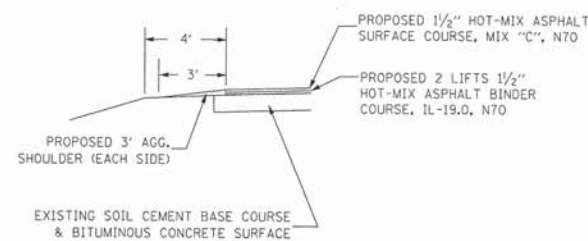
FRONTIER TELEPHONE CO.  
208 WEST UNION  
MARION, IL 62959  
618-997-0707

VILLAGE OF MILL SHOALS  
P.O. BOX 706  
MIL SHOALS, IL 62862  
618-963-2406

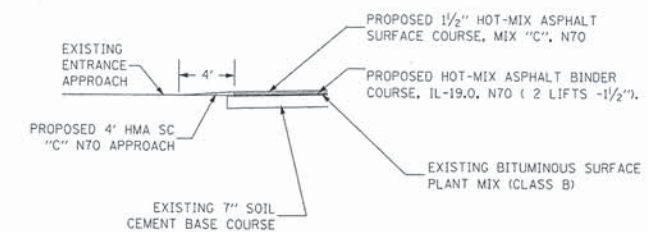
WAYNE-WHITE ELECTRIC  
DRAWER E  
FAIRFIELD, IL 62837  
618-842-2196

VILLAGE OF BURNT PRAIRIE  
P.O. BOX 43  
BURNT PRAIRIE, IL 62820  
618-896-7378

**AGGREGATE SHOULDER DETAIL**



**PRIVATE & FIELD ENTRANCE APPROACH DETAIL**

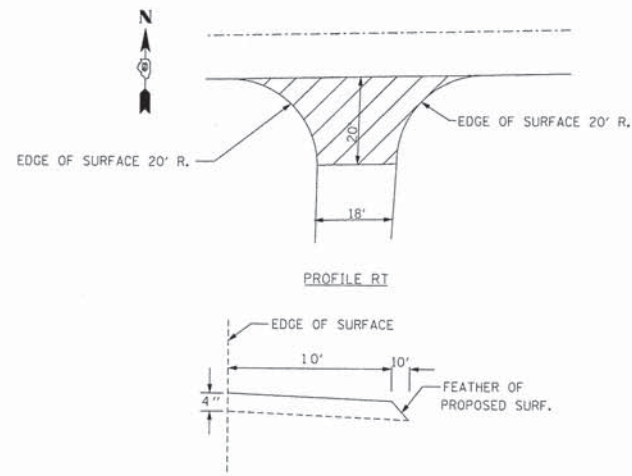




DETAILS OF SURFACING AT INTERSECTIONS AND SIDEROADS

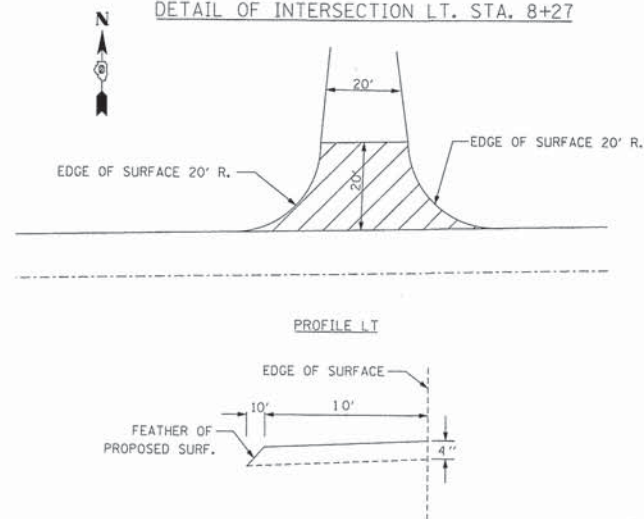
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	13-00122-00-RS	WHITE	11	3
FED. ROAD DIST. NO. 1	ILLINOIS	MILL SHOALS ROAD		
LEC JOB # H141L002WH		CONTRACT # 99533		

DETAIL OF INTERSECTION RT. STA. 3+09



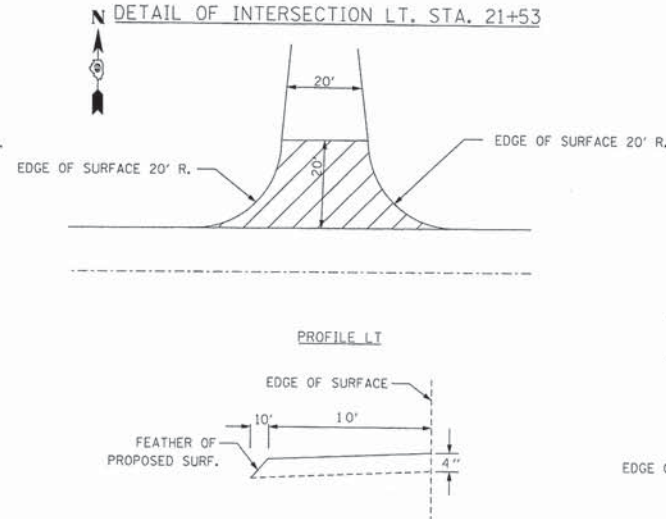
NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 7.5 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.

DETAIL OF INTERSECTION LT. STA. 8+27



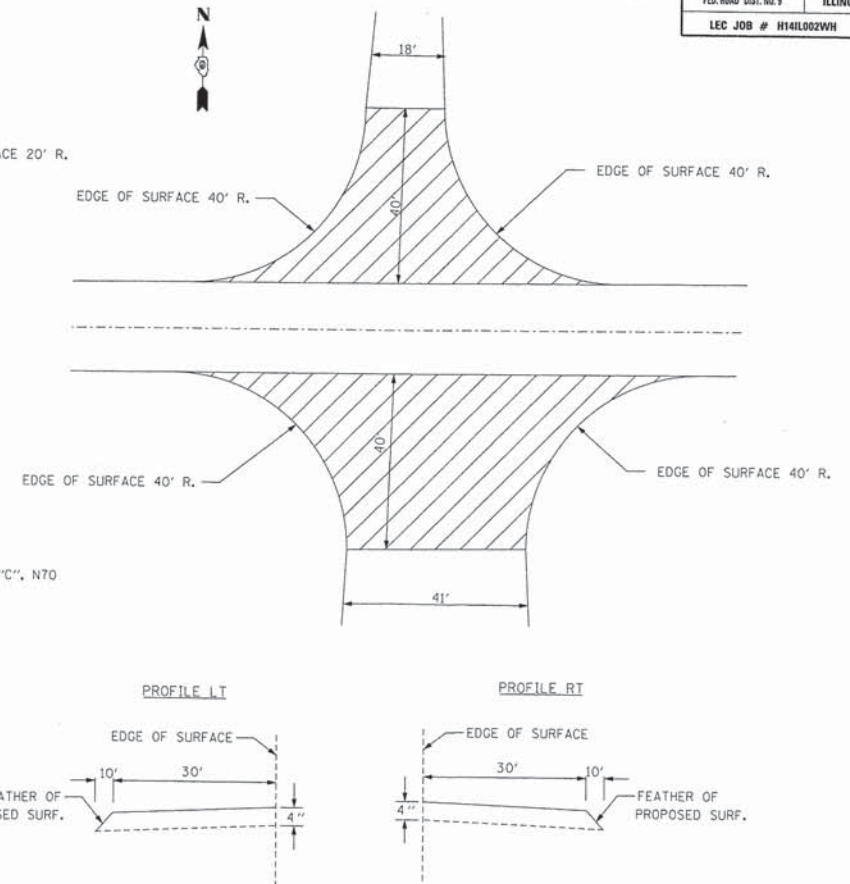
NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 16.0 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.

DETAIL OF INTERSECTION LT. STA. 21+53



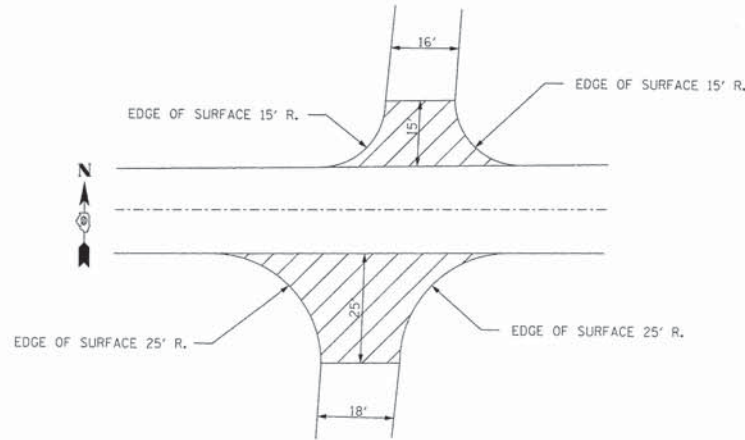
NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 15.9 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.

DETAIL OF INTERSECTION LT. & RT. STA. 47+85

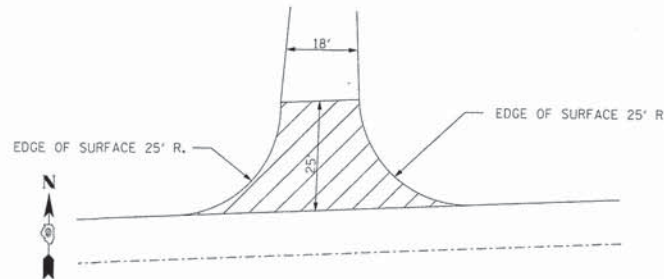


NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 65.0 TONS OF MATERIAL FOR THE SIDEROAD RT. APPROACH AND RADII. IT ALSO INCLUDES 39.5 TONS OF MATERIAL FOR THE SIDEROAD LT. APPROACH AND RADII.

DETAIL OF INTERSECTION LT. STA. 74+16

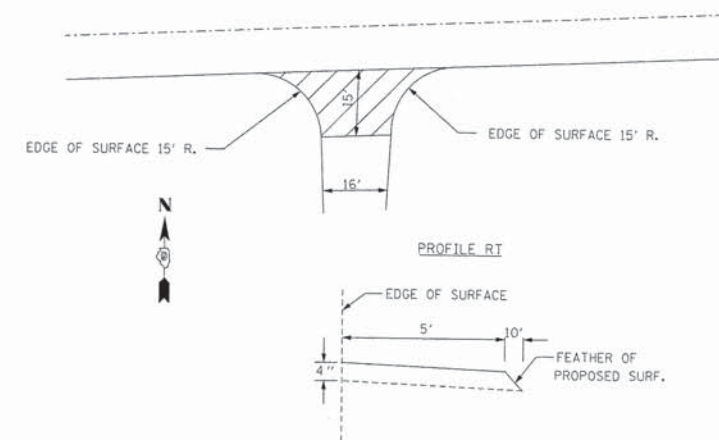


DETAIL OF INTERSECTION LT. STA. 113+59



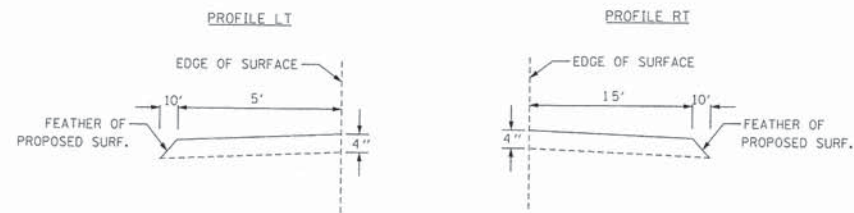
NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 20.1 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.

DETAIL OF INTERSECTION RT. STA. 126+37



NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 9.5 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.

DETAIL OF INTERSECTION RT. STA. 74+02



NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 20.2 TONS OF MATERIAL FOR THE SIDEROAD RT. APPROACH AND RADII. IT ALSO INCLUDES 9.4 TONS OF MATERIAL FOR THE SIDEROAD LT. APPROACH AND RADII.



PROFESSIONAL DESIGN FIRM  
LAND SURVEY & PROFESSIONAL ENGINEERING CORPORATION  
184-00087  
(62-032435)(35-002769)



MICHAEL L. GILL  
NAME  
SIGNATURE  
3-31-15  
DATE  
11-30-15  
EXPIRES

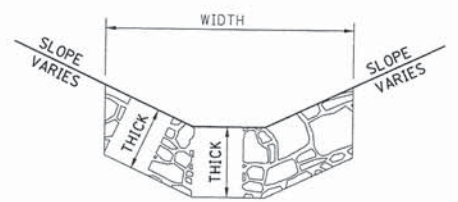


F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	13-00122-00-RS	WHITE	11	4
FED. ROAD DIST. NO. 1		ILLINOIS	MILL SHOALS ROAD	
LEC JOB # H141002WH		CONTRACT # 99533		

LOCATION	LOCATION	LENGTH	WIDTH	AREA	THICKNESS	QUANTITY
		FOOT	FOOT	SQ YD	INCHES	TONS
STA 80+87 LT 14.5'	STA 80+87 LT 40'	21	25.5	59.5	22	65
STA 80+87 RT 14.5'	STA 80+87 RT 30'	21	15.5	36.2	22	40
STA 79+00 LT	STA 80+77 LT	177	41	806.3	22	887
STA 79+00 RT	STA 80+77 RT	177	32	629.3	22	692
STA 100+34 LT 15'	STA 100+34 LT 35'	31.5	20	70	22	77
STA 100+34 RT 15'	STA 100+34 RT 40'	31.5	25	87.5	22	96
STA 123+86 RT	STA 124+70 RT	84	18	168	22	185
TOTAL				1856.8		2042

LOCATION	LENGTH	WIDTH	AREA	THICKNESS	QUANTITY
	FOOT	FOOT	SQ YD	INCHES	TONS
STA 0+93 LT	5	6	3.3	12	2
STA 1+35 LT	5	6	3.3	12	2
STA 2+78 LT	10	10	11.1	12	7
STA 2+91 RT	5	7	3.9	12	2
STA 3+27 RT	5	7	3.9	12	2
STA 3+42 RT	10	10	11.1	12	7
STA 74+16 LT	12	12	16	12	10
STA 74+02 RT	12	8	10.7	12	6
STA 113+59 LT	10	8	8.9	12	5
STA 124+75 RT	15	15	25	12	15
TOTAL			60.6		36

STONE DUMPED RIPRAP DETAIL



SCHEDULE OF MAILBOX TURNOUTS

STATION	LOCATION	EST. QUANTITY ALLOWED TONS
1+69+71	LT	2.4
2+52	LT	3.3
8+55+59	LT	6.6
10+72	LT	2.7
13+06+09	LT	2.7
16+70	LT	2.7
20+96	LT	5.8
21+80	LT	1.8
23+21	LT	2.0
28+43	LT	1.7
30+18+21+24	LT	4.4
32+62	LT	3.6
35+39	LT	3.6
49+61	LT	3.6
61+96	LT	2.1
92+77	LT	2.0
122+09	LT	2.0
129+82	LT	3.0
TOTAL		56.1

THE ABOVE QUANTITY IS INCLUDED IN THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 IN THE SUMMARY OF QUANTITIES.

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	UNIT	UNIT
STA 100+09 LT	8	0
STA 100+20 LT	10.00	0.00
STA 100+57 LT	0.00	16.00
TOTAL	18.00	16.00

TREE TRUNK PROTECTION

STATION	LOCATION
0+31.2	56.4' RT

SCHEDULE OF PRIVATE AND FIELD ENTRANCES

STATION	LOCATION	HMA SC "C" N70 (IN TON)	STATION	LOCATION	HMA SC "C" N70 (IN TON)
0+96	RT	1.9	35+40	RT	3.0
1+58	RT	2.4	36+03	LT	4.1
1+58	LT	2.3	38+92	LT	3.4
3+14	LT	1.7	39+12	RT	4.5
3+58	LT	2.1	49+65	RT	2.9
4+22	LT	2.0	60+73	RT	5.1
4+39	RT	2.1	61+75	LT	4.2
4+53	LT	1.3	73+04	LT	1.7
4+96	RT	0.9	82+73	LT	1.7
5+08	LT	0.8	86+98	RT	2.7
5+76	RT	2.9	87+48	RT	2.9
5+84	LT	3.2	89+11	RT	3.4
6+46	LT	4.3	93+01	LT	4.7
8+18	RT	2.3	94+53	RT	3.2
8+97	RT	2.6	97+48	LT	2.8
10+28	LT	2.3	113+99	RT	3.4
10+54	LT	2.6	122+23	LT	2.5
11+36	LT	2.6	122+87	LT	3.5
12+24	LT	4.5	123+75	RT	3.0
12+87	RT	2.1	124+95	RT	2.5
12+94	LT	2.8	130+14	RT	1.9
14+10	RT	3.5	130+20	LT	5.8
15+51	LT	3.5			
16+44	LT	3.7			
17+49	LT	2.2	TOTAL		181.1
18+38	LT	1.6			
19+31	LT	2.1			
19+55	RT	1.7			
20+32	RT	2.6			
21+47	RT	5.1			
22+16	RT	2.3			
23+08	LT	3.1			
25+29	RT	3.2			
28+60	LT	4.0			
28+62	RT	2.7			
29+59	LT	5.0			
30+30	RT	2.2			
30+81	RT	4.3			
32+90	LT	2.5			
33+11	RT	2.9			

THE ABOVE QUANTITY IS INCLUDED IN THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF PAVEMENT MARKINGS

STATION TO	STATION	LOCATION	LENGTH
0+30	138+50	CL.	2951
<b>EDGE LINE (WHITE)</b>			
0+30	2+85	RT.	255
3+30	47+45	RT.	4415
48+40	73+75	RT.	2535
74+25	126+20	RT.	5195
126+55	138+50	RT.	1195
<b>EDGE LINE (WHITE)</b>			
0+30	8+00	LT.	770
8+50	21+30	LT.	1280
21+75	47+50	LT.	2575
48+25	74+00	LT.	2575
74+30	113+35	LT.	3905
113+85	138+50	LT.	2465
<b>NO PASSING (YELLOW)</b>			
0+30	4+85	LT.	455
19+90	48+92	RT.	2902
28+75	58+00	LT.	2925
81+89	90+16	RT.	827
90+16	98+92	LT.	876
123+86	132+86	RT.	900
132+86	138+50	LT.	564
TOTAL			39,565

THE ABOVE QUANTITY IS SHOW IN THE PAVEMENT MARKING-LINE 4" IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF STORM SEWER STRUCTURES

STATION	LOCATION	ITEM
A	126+58.1	20.1' RT PRECAST FLARED END SECTION 24"
B	125+60.4	22.0' RT MANHOLE TYPE A, 4'-DIAMETER WITH TYPE B GRATE
C	125+10.8	20.7' RT MANHOLE TYPE A, 5'-DIAMETER WITH TYPE B GRATE
D	124+69.8	20.6' RT PRECAST FLARED END SECTION 36"
E	2+75.85	20.2' LT PRECAST FLARED END SECTION 24"
F	1+35.90	19.4' LT MANHOLE TYPE A, 5'-DIAMETER WITH TYPE B GRATE
G	0+93.50	19.9' LT MANHOLE TYPE A, 5'-DIAMETER WITH TYPE B GRATE
H	0+55.78	20.1' LT REMOVE AND RELAY STORM SEWER, 30"
I	0+07.52	19.7' LT TIE INTO EXISTING
J	3+41.97	19.4' RT PRECAST FLARED END SECTION 18"
K	3+25.81	19.4' RT MANHOLE TYPE A, 4'-DIAMETER WITH TYPE B GRATE
L	3+27.14	35.6' RT PRECAST FLARED END SECTION 18"
M	2+90.12	19.4' RT MANHOLE TYPE A, 4'-DIAMETER WITH TYPE B GRATE
N	2+91.38	35.6' RT PRECAST FLARED END SECTION 15"
O	1+69.12	19.7' RT MANHOLE TYPE A, 5'-DIAMETER WITH TYPE B GRATE
P	0+83.29	25.0' RT MANHOLE TYPE A, 5'-DIAMETER WITH TYPE B GRATE
Q	0+14.38	21.9' RT TIE INTO EXISTING
R	0+23.44	86.4' RT REMOVE AND RELAY END SECTION
S	0+15.04	35.6' RT TIE INTO EXISTING
T	1+35.90	27.4' LT PRECAST FLARED END SECTION 12"
V	0+93.50	27.9' LT PRECAST FLARED END SECTION 24"
W	0+23.56	73.5' RT PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER

SCHEDULE OF STORM SEWER

LOCATION	PROPOSED PIPE	PROPOSED LENGTH
A TO B	24" CL A	90
B TO C	36" CL A	47
C TO D	36" CL A	32
D TO E	24" CL A	132
E TO F	30" CL A	48
F TO G	12" CL A	8
G TO H	30" CL A	26
H TO I	24" CL A	8
I TO J	EXIST 30" CL A	48
J TO K	18" CL A	8
K TO L	18" CL A	8
L TO M	24" CL A	33
M TO N	15" CL A	8
N TO O	EORS 30" CL A	118
O TO P	EORS 30" CL A	82
P TO Q	EORS 30" CL A	67
Q TO R	18" CL A	45

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PRINCETON, IN  
47670  
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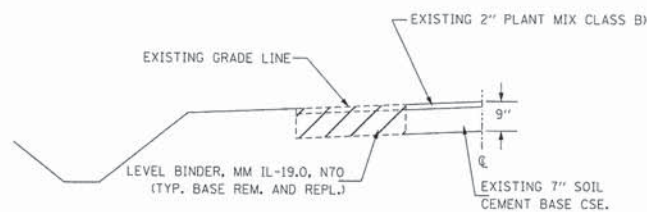
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LAND SURVEY & PROFESSIONAL ENGINEERING CORPORATION  
184-000887  
(62-032435) 35-002769



MICHAEL L. GILL  
NAME  
Signature  
DATE  
11-30-15  
EXPIRES

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	13-00122-00-RS	WHITE	11	5
FED. ROAD DIST. NO. 1		ILLINOIS	MILL SHOALS ROAD	
LEC JOB # N141L02WH			CONTRACT # 95533	

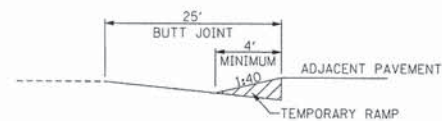
**DETAIL OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL**



NOTE: IN THE TYPICAL DETAIL ABOVE THE DISTANCE FROM THE CENTERLINE LEFT OR RIGHT AND THE WIDTH OF PAVEMENT REMOVAL AND REPLACEMENT VARIES. SEE SCHEDULE OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL FOR PROPOSED LOCATIONS.

**TEMPORARY RAMP DETAIL**

STA 137+75 TO STA 138+00



LOCATION	LOCATION	LENGTH
		FOOT
STA 72+26 RT	STA 73+76 RT	150
STA 74+26 RT	STA 75+76 RT	150
STA 105+35 LT	STA 113+35 LT	800
STA 105+35 RT	STA 113+35 RT	800
STA 123+86 RT	STA 124+70 RT	84
TOTAL		1984

**PAVEMENT REMOVAL AND REPLACEMENT (SPECIAL)**

STATION	TO	STATION	LOCATION	LENGTH	WIDTH	AREA (SQ YD)	TON
3283.0		3378.0	RT	95.0	4.0	42.2	21.3
2923.0		2937.0	LT	14.0	3.5	5.4	2.7
2849.0		2871.0	LT	22.0	3.5	8.6	4.3
6335.0		6455.0	RT	120.0	4.5	60.0	30.2
8740.0		8830.0	LT	90.0	4.0	40.0	20.2
8900.0		8916.0	RT	16.0	4.0	7.1	3.6
9441.0		9521.0	LT	80.0	4.0	35.6	17.9
11311.0		11382.0	RT	71.0	4.0	31.6	15.9
TOTALS						230.4	116

**AGGREGATE SURFACE COARSE, TYPE B**

STATION	LOCATION	THICKNESS (INCH)	AGG SURF CSE B (IN TONS)
0+96	RT	6	5.4
1+58	RT	6	4.1
1+58	LT	6	4.8
124+95	RT	6	5.5
TOTAL:			20

LOCATION	TO	LOCATION	LENGTH	WIDTH	AREA
			FOOT	FOOT	SQ FT
STA 2+80 RT		STA 3+00 RT	20	4	80
STA 3+18 RT		STA 3+35 RT	17	4	68
TOTAL					148

LOCATION	TO	LOCATION	LENGTH	WIDTH	AREA
			FOOT	FOOT	SQ FT
STA 0+36 RT			18	4	72
STA 0+31 LT			12	4	48
TOTAL					120

LOCATION	LENGTH	WIDTH	AREA
	FOOT	FOOT	SQ FT
STA 0+36 RT	2	4	8
STA 0+31 LT	2	4	8
STA 3+00 RT	2	4	8
STA 3+18 RT	2	4	8
TOTAL			32

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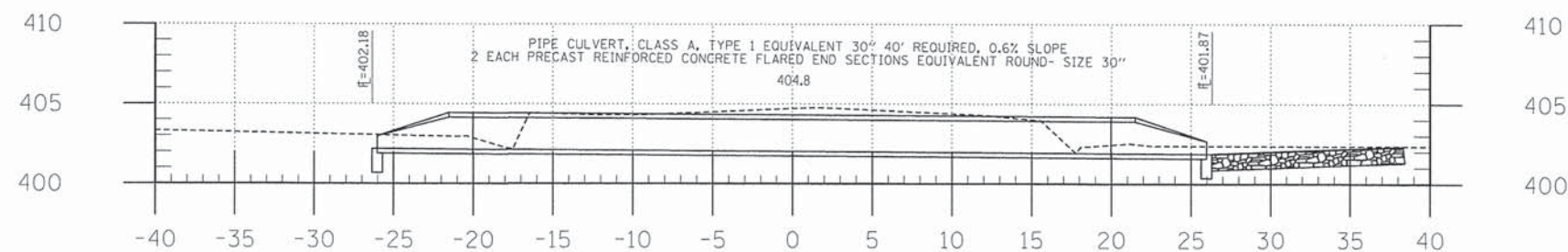


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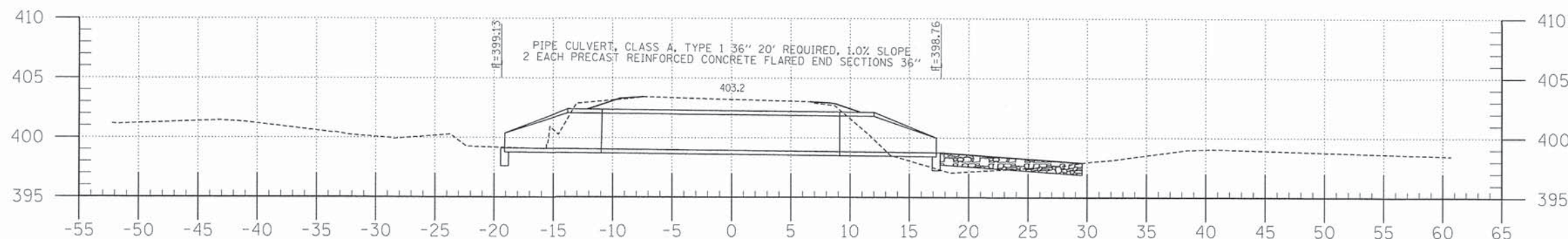


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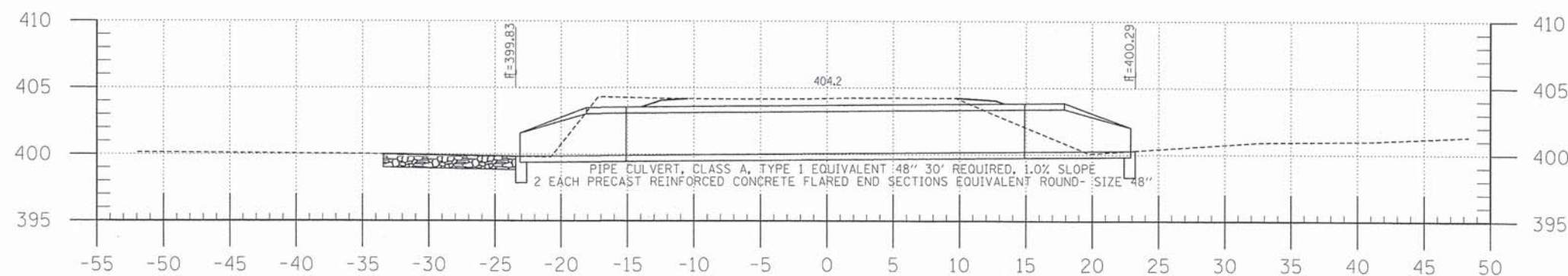




74+02 SIDEROAD RIGHT ACROSS ROAD PIPE CULVERT

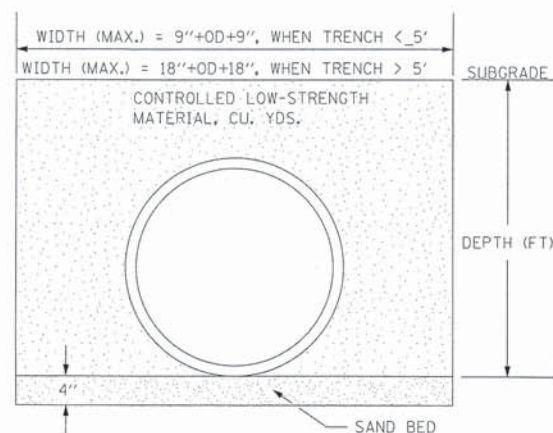


74+16 SIDEROAD LEFT ACROSS ROAD PIPE CULVERT

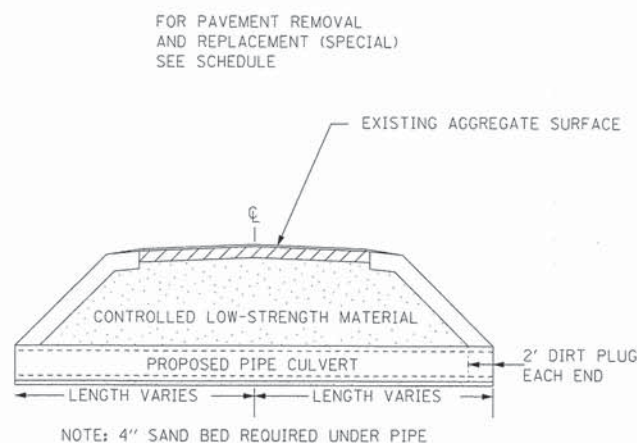


133+59 SIDEROAD LEFT ACROSS ROAD PIPE CULVERT

**DETAIL OF ACROSS ROAD PIPE CULVERTS**



**PROPOSED TYPICAL CROSS SECTION OF ACROSS ROAD PIPE CULVERTS**



**SCHEDULE OF CONTROLLED LOW-STRENGTH MATERIALS**

STATION	SIZE	LENGTH	CONTROLLED LOW-STRENGTH MATERIAL
3+09	24"	32'	4.6 CY
74+02	30" EORS	40'	7.3 CY
74+16	36"	20'	5.2 CY
113+59	48" EORS	30'	9.8 CY
126+37	24"	20'	2.8 CY
		TOTAL	29.8 CY

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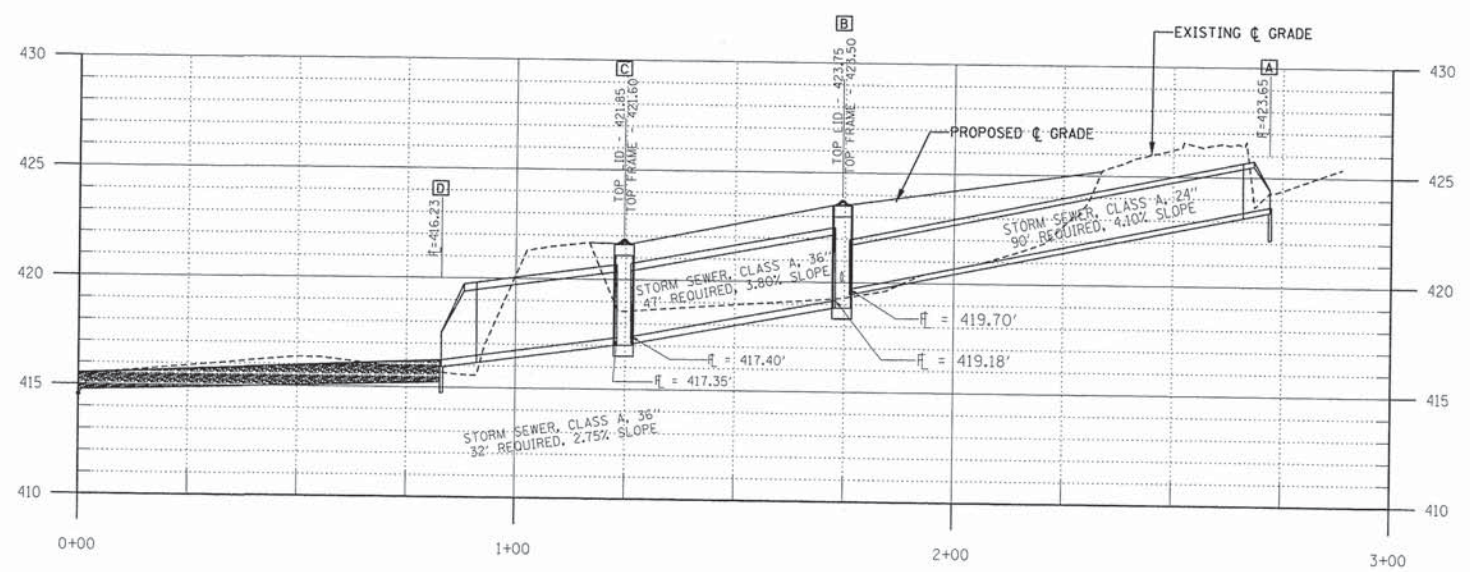
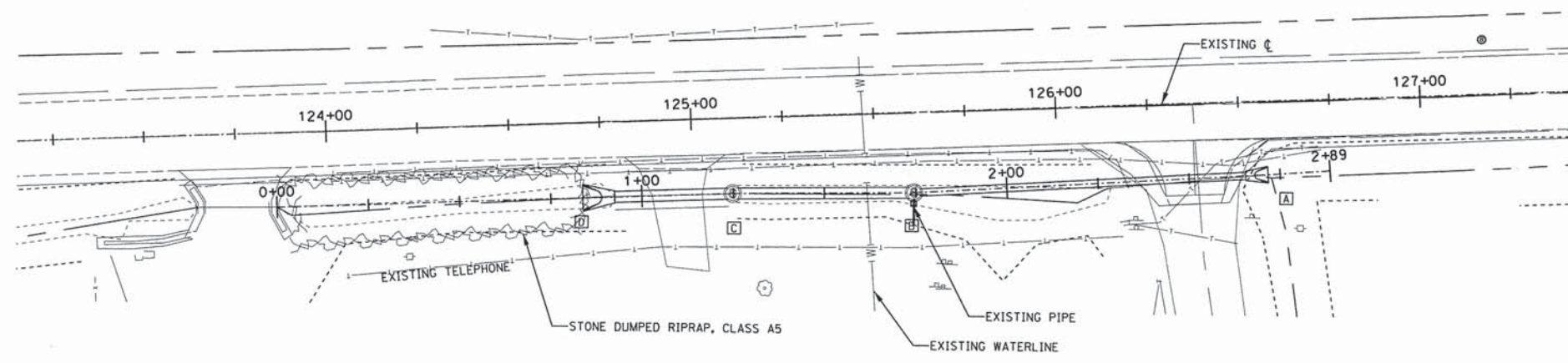
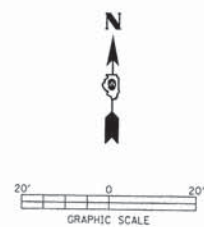
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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	13-00122-00-RS	WHITE	11	7
FEL. ROAD DIST. NO. 1		ILLINOIS	MILL SHOALS ROAD	
LEC JOB # H141002WH			CONTRACT # 99533	



STA 124+77 RT TO STA 126+58 RT STORM SEWER CLASS A TYPE 1

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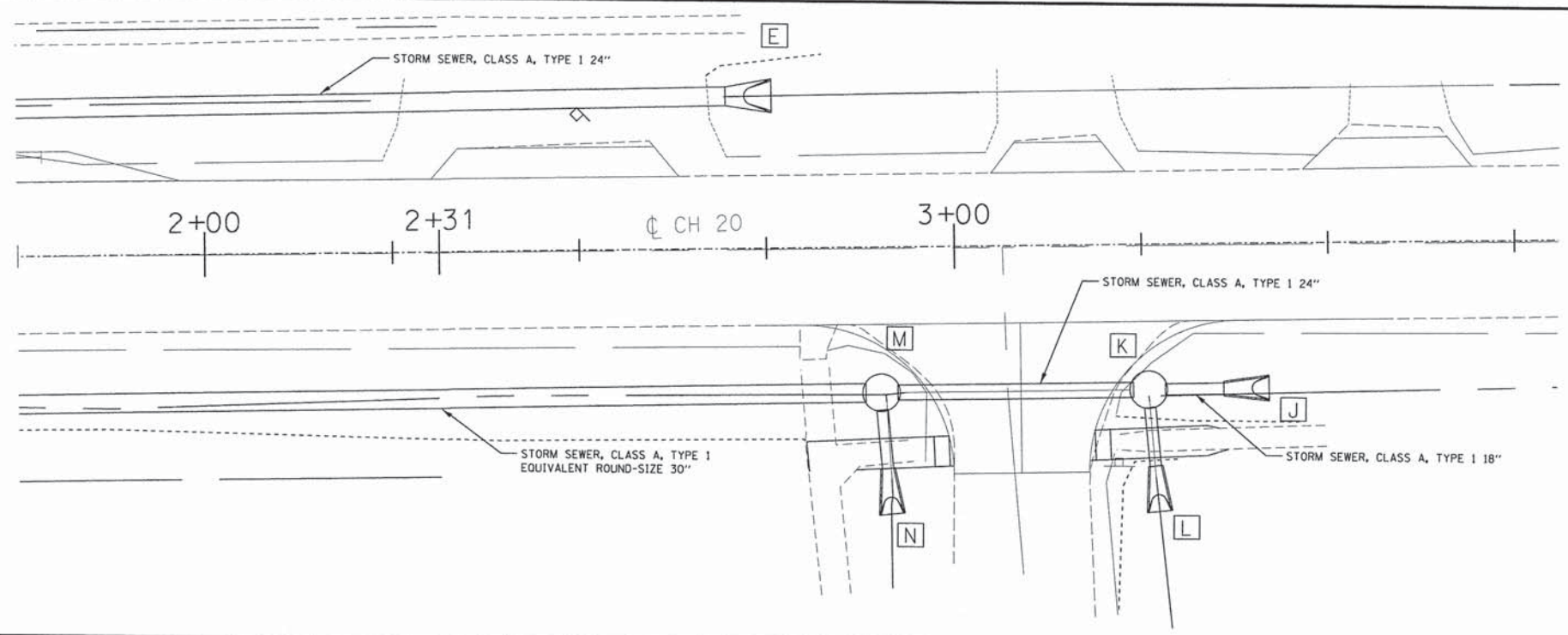
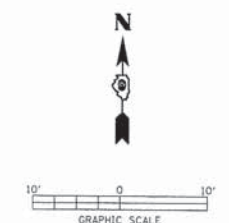
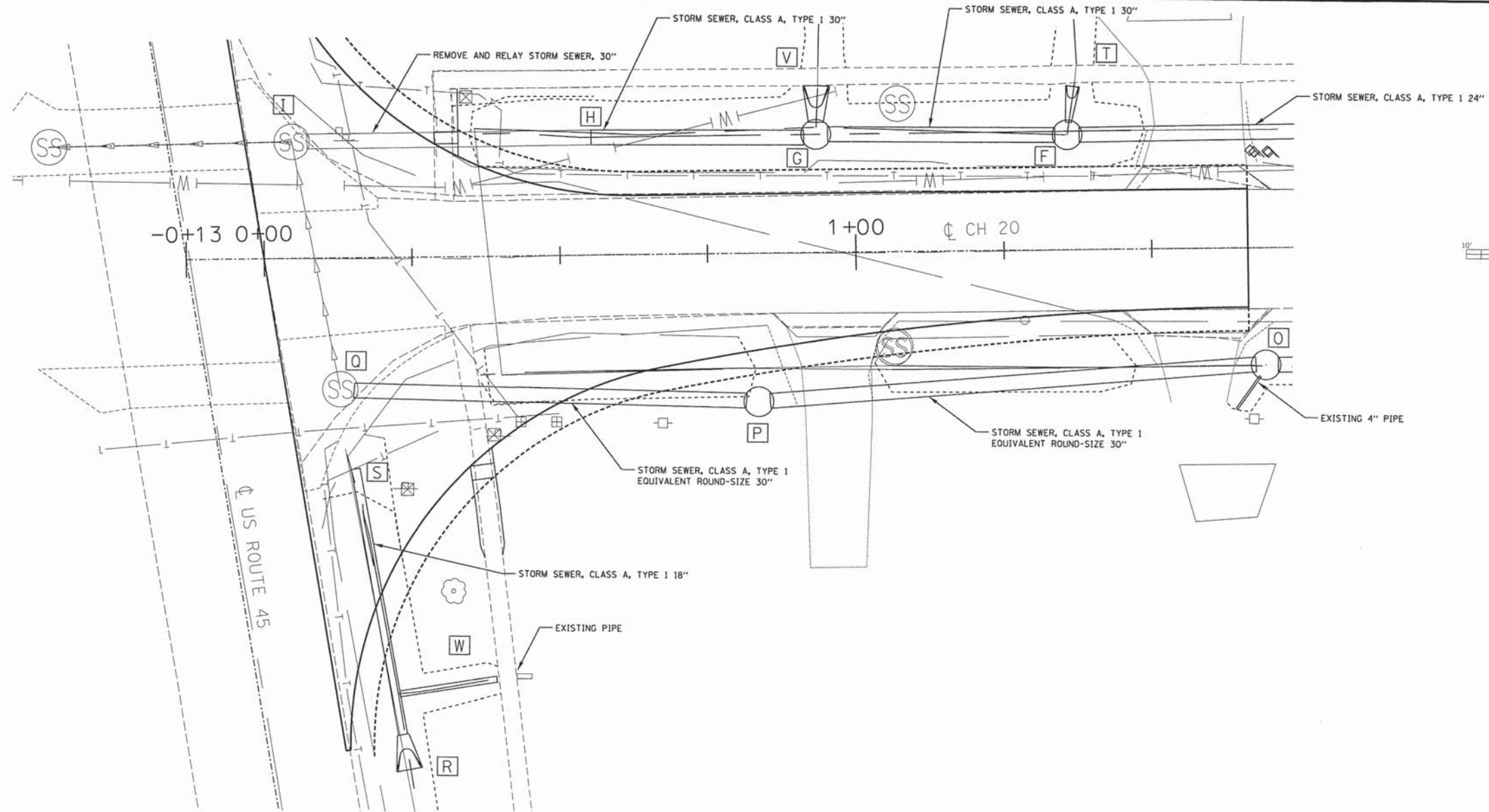


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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	13-0012-00-RS	WHITE	11	8
FED. ROAD DIST. NO. 1	ILLINOIS	MILL SHOALS ROAD		
LEC JOB # H141002WH	CONTRACT # 99533			



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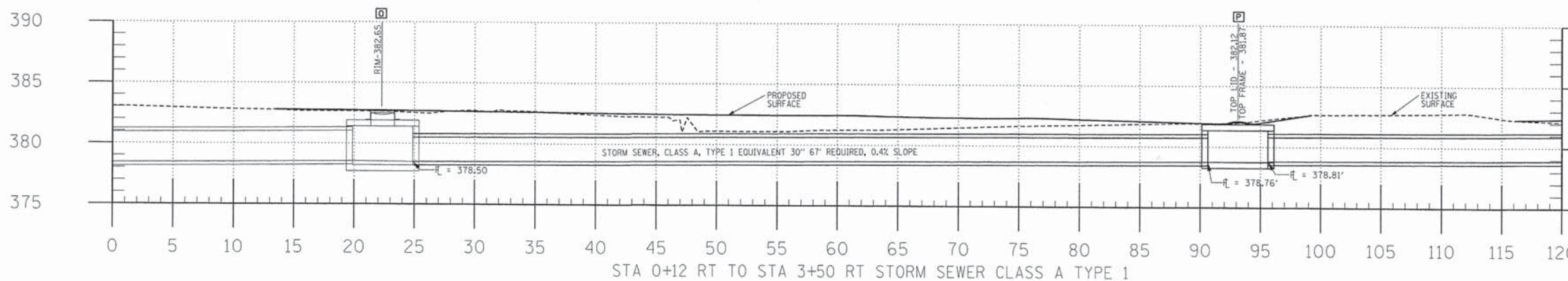


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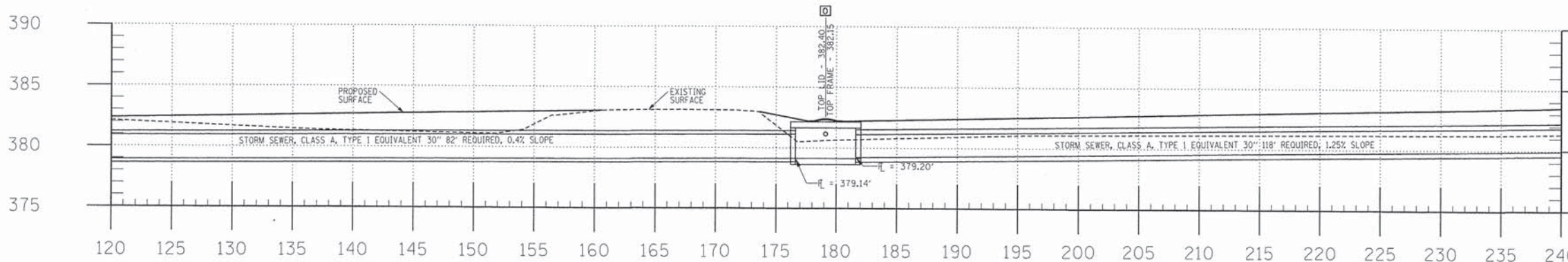


DETAILS OF STORM SEWER

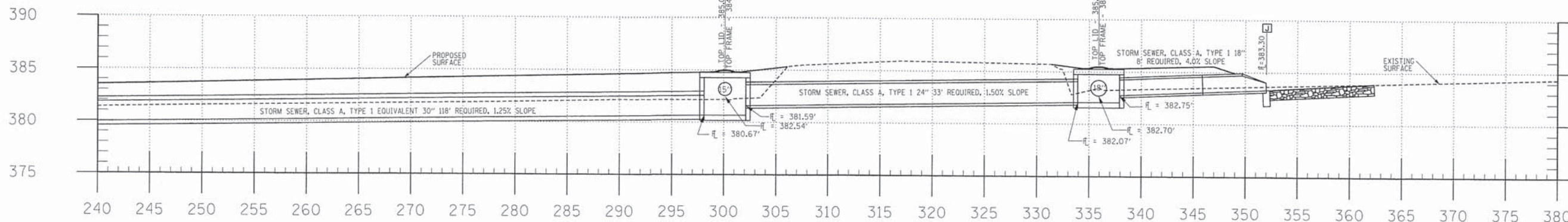
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815	13-00122-00-RS	WHITE	11	9
FEB. ROAD DIST. NO. 1		ILLINOIS	MILL SHOALS ROAD	
LEC JOB # H141002WH		CONTRACT # 99533		



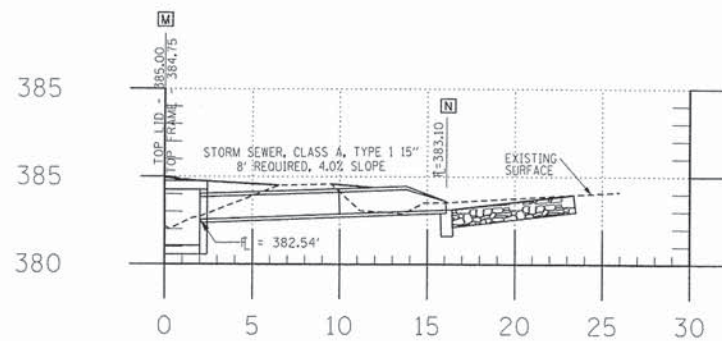
STA 0+12 RT TO STA 3+50 RT STORM SEWER CLASS A TYPE 1



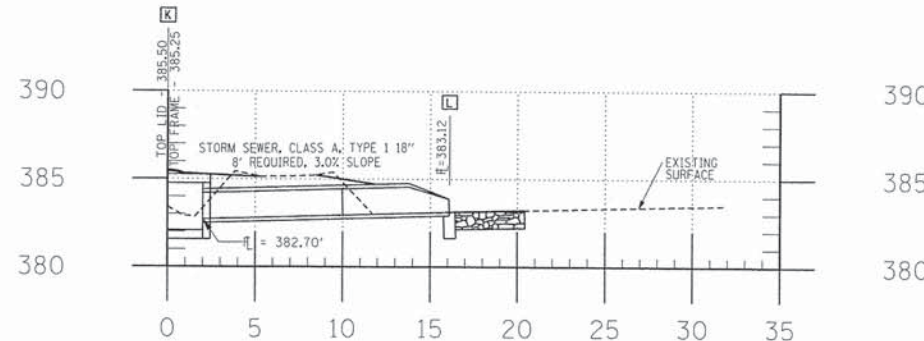
STA 0+12 RT TO STA 3+50 RT STORM SEWER CLASS A TYPE 1



STA 0+12 RT TO STA 3+50 RT STORM SEWER CLASS A TYPE 1



STA 2+90.1 RT STORM SEWER CLASS A TYPE 1



STA 3+25.8 RT STORM SEWER CLASS A TYPE 1

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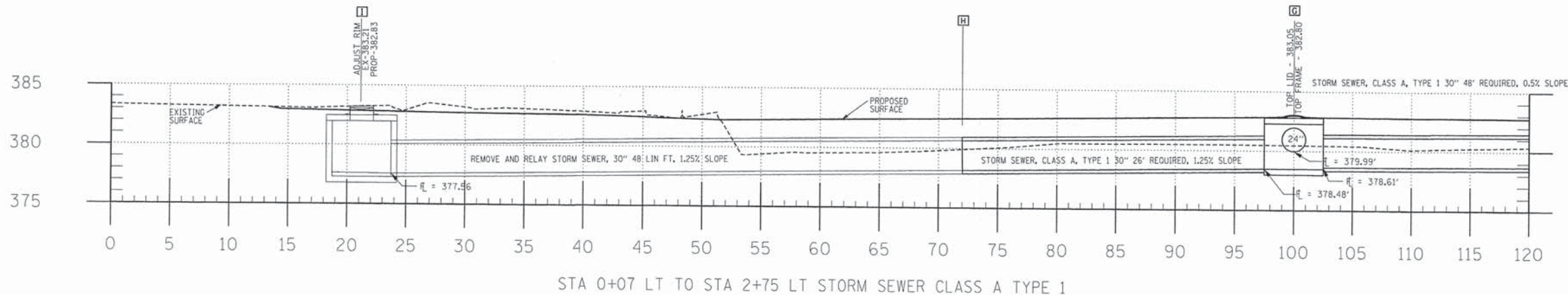


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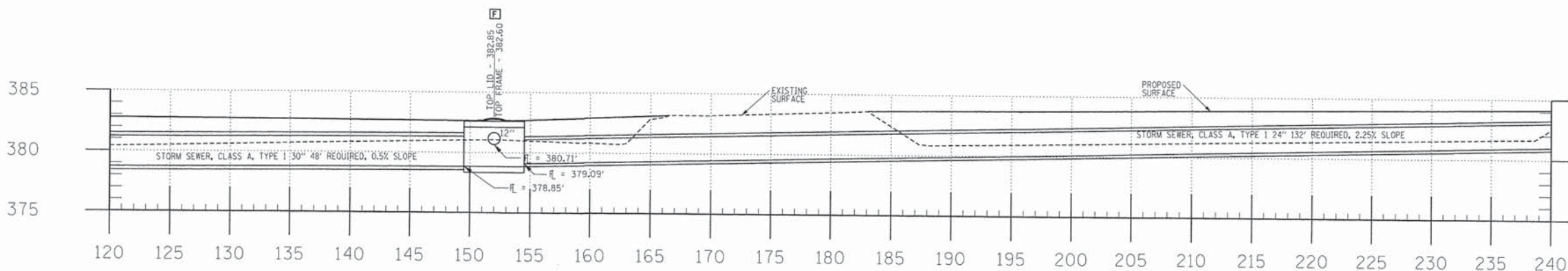


DETAILS OF STORM SEWER

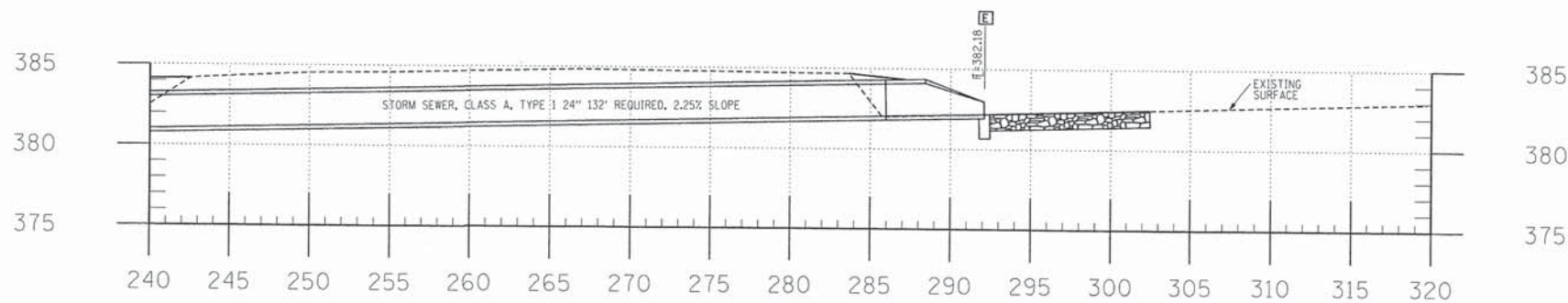
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B15	13-00122-00-RS	WHITE	11	10
FED. ROAD DIST. NO. 1	ILLINOIS	MILL SHOALS ROAD		
LEC JOB # H141002WH	CONTRACT # 99533			



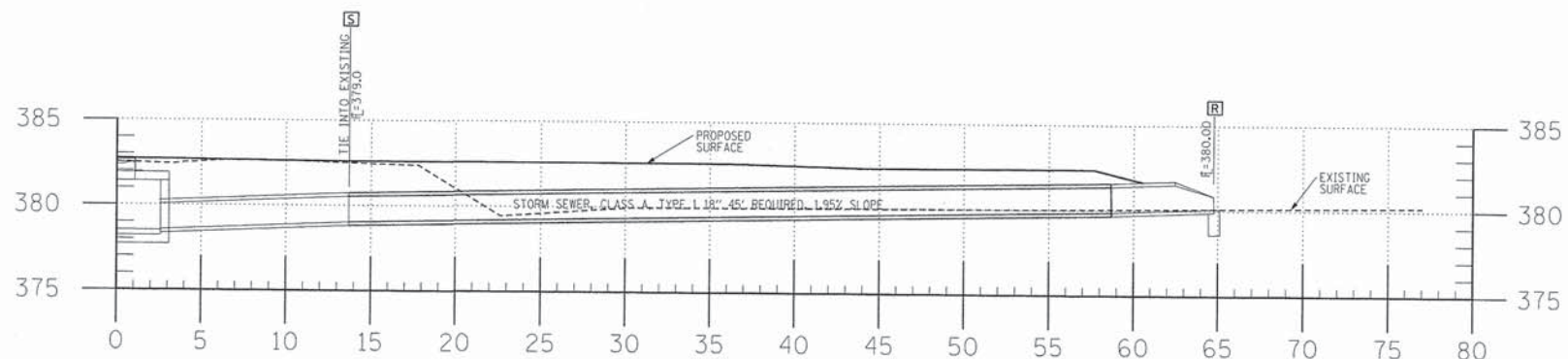
STA 0+07 LT TO STA 2+75 LT STORM SEWER CLASS A TYPE 1



STA 0+07 LT TO STA 2+75 LT STORM SEWER CLASS A TYPE 1



STA 0+07 LT TO STA 2+75 LT STORM SEWER CLASS A TYPE 1



STA 0+12 RT STORM SEWER CLASS A TYPE 1

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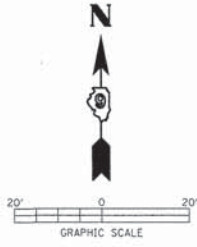
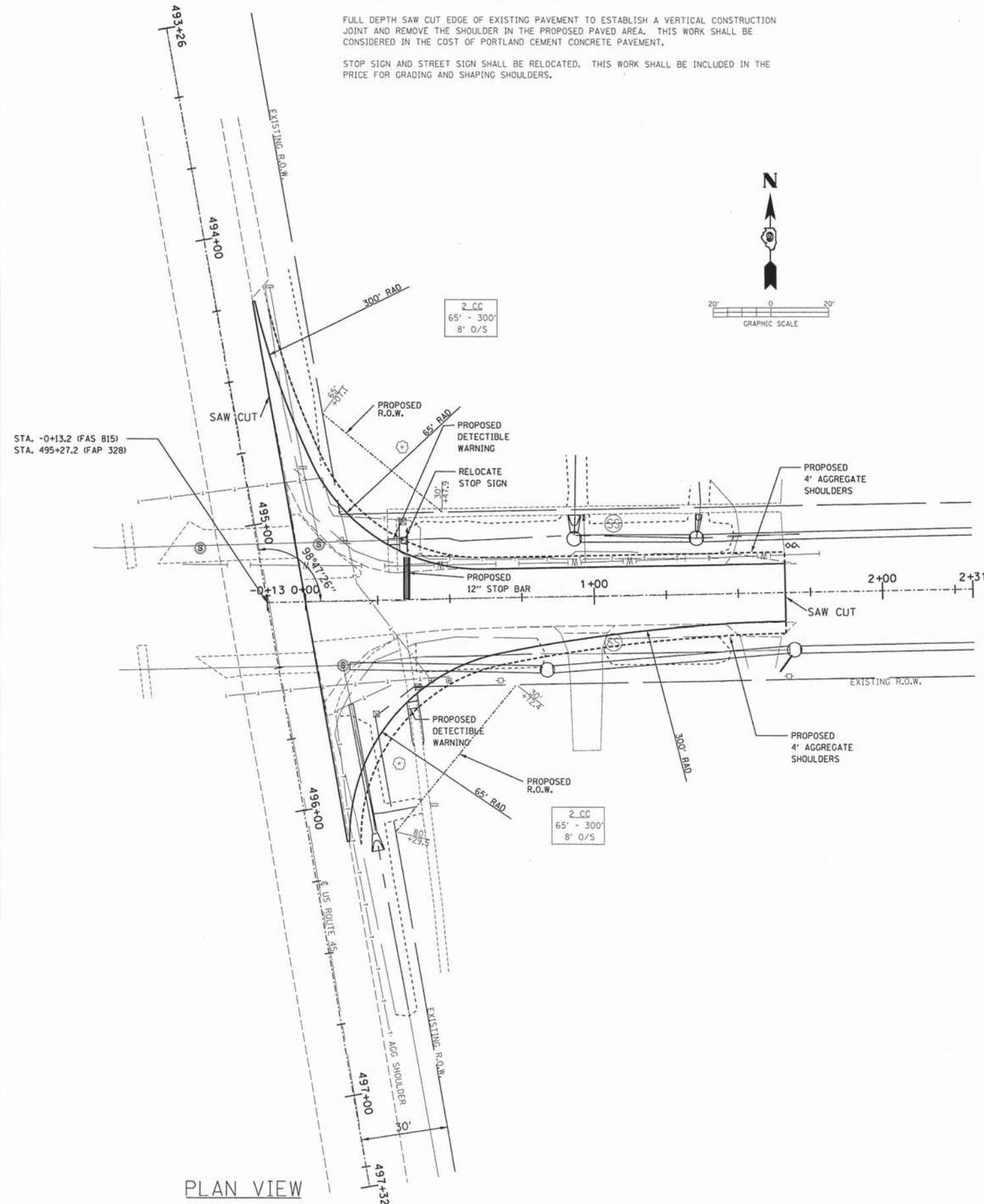
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**GENERAL NOTES:**

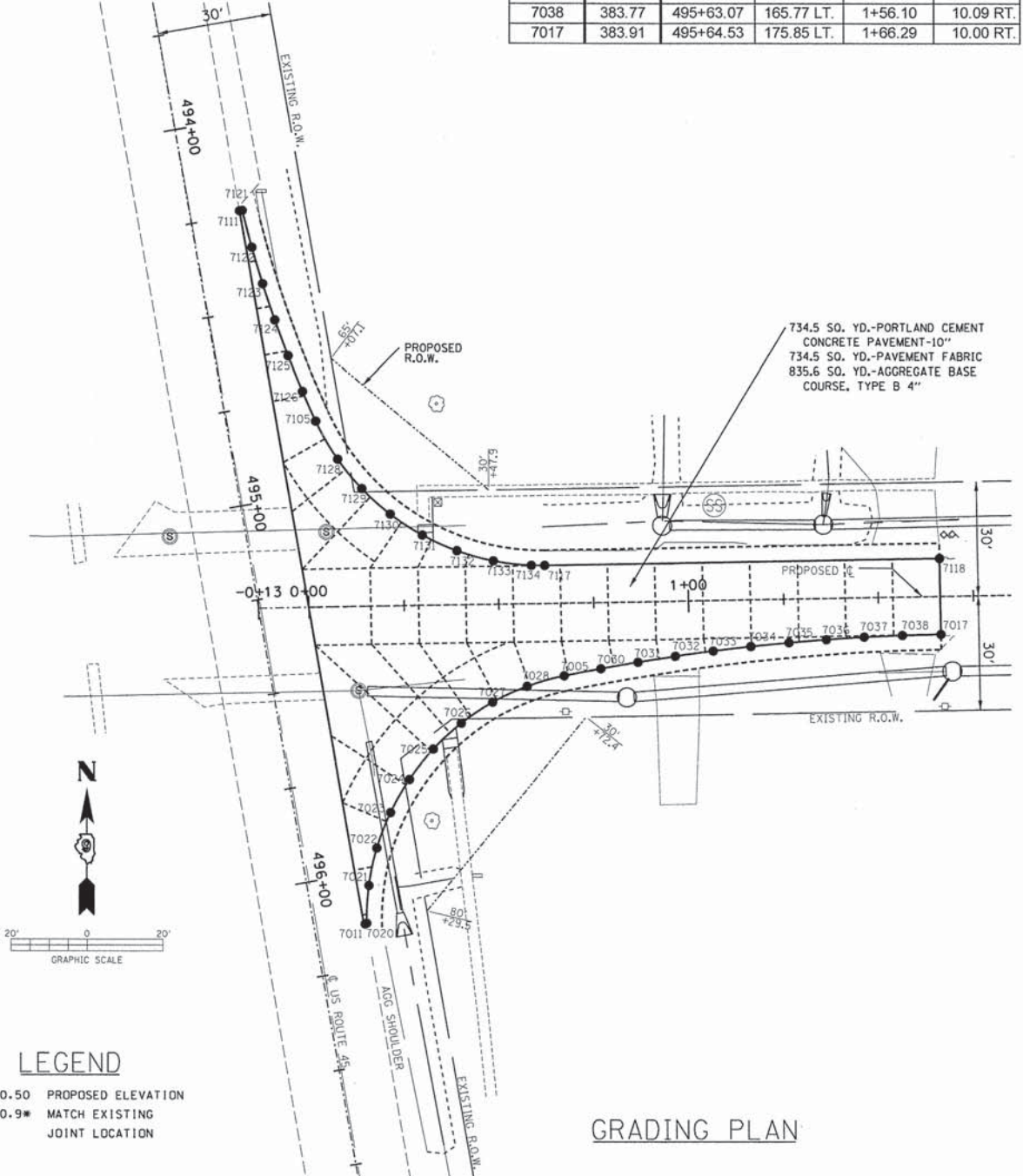
FULL DEPTH SAW CUT EDGE OF EXISTING PAVEMENT TO ESTABLISH A VERTICAL CONSTRUCTION JOINT AND REMOVE THE SHOULDER IN THE PROPOSED PAVED AREA. THIS WORK SHALL BE CONSIDERED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT.

STOP SIGN AND STREET SIGN SHALL BE RELOCATED. THIS WORK SHALL BE INCLUDED IN THE PRICE FOR GRADING AND SHAPING SHOULDERS.



POINT NUMBER	ELEV.	IL. RTE. 45		C.H. 20	
		STA. M.L.	OFF. M.L.	STA. M.L.	OFF. M.L.
7111	384.10	494+03.83	13.00 LT.	-0+19.21	123.92 LT.
7120	383.97	494+13.83	13.17 LT.	-0+17.52	114.07 LT.
7121	383.85	494+23.82	13.67 LT.	-0+15.50	104.27 LT.
7122	383.74	494+33.78	14.50 LT.	-0+13.15	94.55 LT.
7123	383.63	494+43.71	15.66 LT.	-0+10.69	85.64 LT.
7124	383.52	494+53.60	17.16 LT.	-0+07.49	75.37 LT.
7125	383.39	494+63.43	18.98 LT.	-0+04.19	65.94 LT.
7126	383.26	494+73.20	21.13 LT.	-0+00.57	56.61 LT.
7105	383.14	494+81.44	23.21 LT.	0+02.75	48.79 LT.
7127	383.12	494+82.89	23.62 LT.	0+03.37	47.42 LT.
7128	382.97	494+92.24	27.16 LT.	0+08.29	38.72 LT.
7129	382.80	495+00.94	32.09 LT.	0+14.50	30.88 LT.
7130	382.63	495+08.78	38.30 LT.	0+21.83	24.08 LT.
7131	382.49	495+15.57	45.63 LT.	0+30.12	18.48 LT.
7132	382.54	495+21.16	53.93 LT.	0+39.17	14.23 LT.
7133	382.58	495+25.41	62.98 LT.	0+48.76	11.41 LT.
7134	382.63	495+28.22	72.57 LT.	0+58.68	10.10 LT.
7117	382.65	495+28.86	76.07 LT.	0+62.22	10.00 LT.
7118	383.91	495+44.77	178.91 LT.	1+66.29	10.00 LT.

POINT NUMBER	ELEV.	IL. RTE. 45		C.H. 20	
		STA. M.L.	OFF. M.L.	STA. M.L.	OFF. M.L.
7011	382.67	496+23.27	13.00 LT.	0+14.33	92.93 RT.
7020	382.66	496+13.30	13.77 LT.	0+13.56	82.96 RT.
7021	382.63	496+03.56	16.06 LT.	0+14.34	72.99 RT.
7022	382.60	495+94.29	19.81 LT.	0+16.63	63.26 RT.
7023	382.56	495+85.71	24.95 LT.	0+20.39	53.99 RT.
7024	382.51	495+78.02	31.34 LT.	0+25.53	45.41 RT.
7025	382.45	495+71.40	38.83 LT.	0+31.92	37.72 RT.
7026	382.35	495+66.00	47.25 LT.	0+39.42	31.11 RT.
7027	382.40	495+61.96	56.40 LT.	0+47.84	25.72 RT.
7028	382.45	495+59.37	66.06 LT.	0+56.99	21.68 RT.
7005	382.54	495+58.28	76.15 LT.	0+66.81	19.07 RT.
7030	382.63	495+58.10	86.00 LT.	0+76.51	17.38 RT.
7031	382.75	495+58.09	96.00 LT.	0+86.39	15.84 RT.
7032	382.89	495+58.25	105.99 LT.	0+96.29	14.47 RT.
7033	383.04	495+58.60	115.99 LT.	1+06.22	13.29 RT.
7034	383.19	495+59.13	125.97 LT.	1+16.17	12.29 RT.
7035	383.34	495+59.84	135.95 LT.	1+26.14	11.47 RT.
7036	383.49	495+60.74	145.91 LT.	1+36.12	10.83 RT.
7037	383.63	495+61.81	155.85 LT.	1+46.11	10.37 RT.
7038	383.77	495+63.07	165.77 LT.	1+56.10	10.09 RT.
7017	383.91	495+64.53	175.85 LT.	1+66.29	10.00 RT.



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