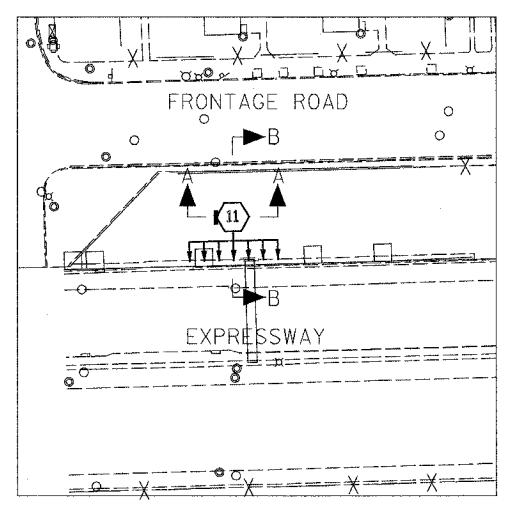
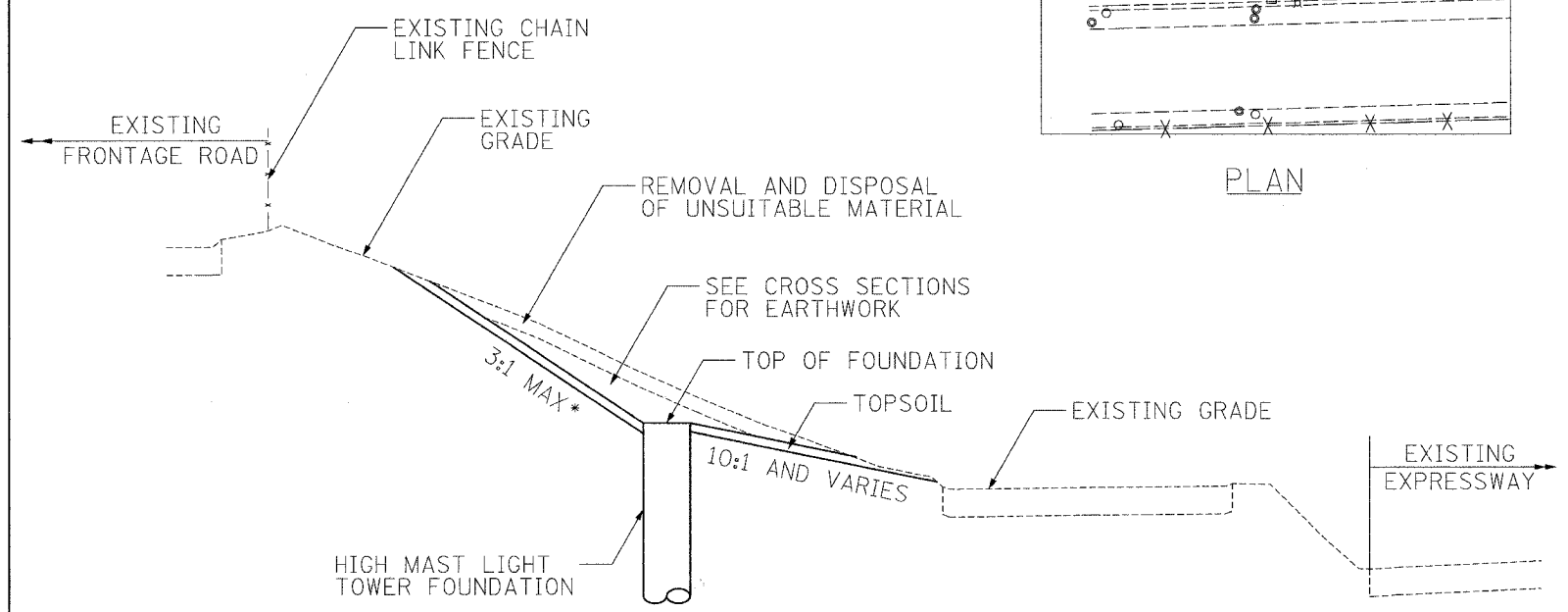


CUT GRADING DETAIL**
SECTION A-A



PLAN



TYPICAL EARTHWORK DETAIL**
SECTION B-B

EARTHWORK SCHEDULE (NORTHBOUND DAN RYAN) - QUANTITIES AND CALCULATIONS

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER LOCATION		TOP OF FOUNDATION ELEVATION	DISTANCE FROM EX. GROUND TO H.M.T. PAD (H) (FT.)	CROSS SECTION AREA MEASUREMENTS (SEE CROSS-SECTIONS) (SQ. FT.)		VOLUME CALCULATIONS (CU. YD.)	
	STATION (NBLOC)	OFFSET			EXCAVATION (A)	UNSUITABLE MATERIAL (B)	EXCAVATION ^①	UNSUIT. MAT. ^②
7 UGH1	4530+50	RT 82	19.13	0.0	0.0	0.0	0.0	0.0
8 UGH2	4534+60	RT 63	18.71	0.0	0.0	0.0	0.0	0.0
7 UGH3	4538+70	RT 97	14.96	0.0	0.0	0.0	0.0	0.0
7 VMN3	4542+80	RT 88	14.05	0.0	0.0	0.0	0.0	0.0
7 VMN2	4546+85	RT 88	11.22	1.2	19.6	11.5	13.4	7.8
7 VMN1	4550+95	RT 107.5	10.10	0.0	3.6	3.4	2.1	2.0
7 VEF3	4555+05	RT 88	1.90	5.0	133.4	27.4	128.5	26.4
7 VEF2	4559+15	RT 77	5.98	2.4	32.3	12.1	24.9	9.3
8 VEF1	4563+20	RT 101	5.75	3.2	61.8	19.9	51.3	16.5
7 VGH1	4567+25	RT 88	1.38	1.7	52.0	22.1	37.4	15.9
7 VGH2	4571+30	RT 88	0.75	0.3	0.0	6.0	0.0	3.7
7 VGH3	4575+60	RT 103	3.30	0.0	0.0	2.0	0.0	1.2
7 VGH4	4579+90	RT 78	1.13	1.9	28.2	14.2	20.7	10.4
TOTAL							278.1	93.2

EARTHWORK SCHEDULE (SOUTHBOUND DAN RYAN) - QUANTITIES AND CALCULATIONS

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER LOCATION		TOP OF FOUNDATION ELEVATION	DISTANCE FROM EX. GROUND TO H.M.T. PAD (H) (FT.)	CROSS SECTION AREA MEASUREMENTS (SEE CROSS-SECTIONS) (SQ. FT.)		VOLUME CALCULATIONS (CU. YD.)	
	STATION (SBLOC)	OFFSET			EXCAVATION (A)	UNSUITABLE MATERIAL (B)	EXCAVATION ^①	UNSUIT. MAT. ^②
7 UCD1	3530+20	LT 76	6.95	1.8	38.9	20.3	28.2	14.7
7 UCD2	3534+30	LT 74	13.45	0.0	0.0	0.0	0.0	0.0
7 VIJ3	3538+35	LT 86	19.88	0.0	0.0	0.0	0.0	0.0
7 VIJ2	3542+35	LT 93	11.40	0.0	0.0	0.0	0.0	0.0
7 VIJ1	3546+45	LT 88	10.69	0.3	0.0	4.7	0.0	2.9
7 VAB4	3550+55	LT 107	9.41	3.4	59.3	19.4	50.1	16.4
7 VAB3	3554+65	LT 88	4.62	2.9	93.5	27.5	75.6	22.2
7 VAB2	3558+75	LT 87	8.12	2.6	37.7	14.2	29.6	11.1
8 VAB1	3562+80	LT 112	6.00	2.4	46.0	16.2	35.4	12.5
8 VCD1	3566+85	LT 88	0.24	2.5	71.3	30.5	55.5	23.7
7 VCD2	3570+90	LT 88	4.71	0.0	0.0	5.9	0.0	3.5
7 VCD3	3575+20	LT 101	6.89	1.5	26.8	16.2	18.9	11.4
7 VCD4	3579+50	LT 76	2.72	0.5	13.1	13.5	8.2	8.5
TOTAL							301.6	127.0

TEMPORARY AERIAL CABLE POLES (NORTHBOUND)

STATION (NBLOC)	OFFSET	EXTRA DEPTH
4544+81	RT 95'	-
4548+90	RT 105'	2.5
4553+00	RT 79'	3
4557+11	RT 95'	2
4561+18	RT 109'	5.5
4565+22	RT 106'	-
4569+27	RT 100'	-
4573+45	RT 106'	-
4577+75	RT 66'	-

TEMPORARY AERIAL CABLE POLES (SOUTHBOUND)

STATION (SBLOC)	OFFSET	EXTRA DEPTH
3544+41	LT 100'	-
3548+50	LT 107'	-
3552+60	LT 70'	4
3556+70	LT 100'	1.5
3560+78	LT 123'	4.5
3564+82	LT 112'	-
3568+88	LT 100'	-
3573+06	LT 106'	-
3577+35	LT 115'	-

*WHERE SHOWN ON CROSS-SECTIONS, SELECT BACK SLOPES ARE STEEPER THAN 3:1
 **FOR PROJECT SECTION FROM 47TH TO 31ST STREET ONLY
 ***QUANTITY BASED ON 1'X3' ELECTRICAL TRENCH INSTALLATIONS BEING DONE AFTER SUBSTANTIAL COMPLETION OF EARTHWORK BY OTHERS (CONTRACT 62301 AND 62303).

NON-SPECIAL WASTE DISPOSAL***

STATION		NON-SPECIAL WASTE DISPOSAL (CU. YD.)
SB - DAN RYAN		
3588+20 TO 3591+00	LIGHTING TRENCH	23.5
3601+00 TO 3604+00		
	ITS TRENCH	32.5
	LIGHTING TRENCH	32.5
3603+82		
	H.M.T. FOUNDATION	3.0
3627+30 TO 3628+70		
	LIGHTING TRENCH	13.0
NB - DAN RYAN		
4585+00 TO 4588+70	LIGHTING TRENCH	41.5
4588+25	H.M.T. FOUNDATION	5.5
TOTAL		151.5

EXTRA DEPTH = ADDITIONAL DEPTH (BEYOND NORMAL) TEMPORARY AERIAL CABLE POLES NEED TO BE DRIVEN INTO THE GROUND DUE TO EARTH EXCAVATION THAT WILL BE DONE BY CONTRACTS 62301 AND 62303. INCLUDED WITH COST OF TEMPORARY WOOD POLE, 60 FT., CLASS 4.

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31ST STREET TO 71ST STREET
 HIGH MAST LIGHT TOWER
 DETAIL AND EARTHWORK SCHEDULE
 SCALE: =NTS DRAWN BY: EGH
 DATE: OCTOBER 15, 2004 CHECKED BY: JDC

NOTE:
 2008 FINAL CONDITION CROSS SECTIONS OF ALL LIGHT TOWER LOCATIONS FROM 31ST TO 47TH STREET, AS DONE BY OTHERS UNDER CONTRACTS 62301 AND 62303, ARE INCLUDED FOR INFORMATION ONLY. THEY ARE PROVIDED TO ILLUSTRATE THE EXTENT OF EARTHWORK OPERATIONS FROM EXISTING TO FINAL CONDITIONS.
 TEMPORARY AERIAL CABLING IS BEING INSTALLED BY THIS CONTRACT FROM 47TH STREET TO PERSHING ROAD AND BY CONTRACT 62733 FROM PERSHING ROAD TO 31ST STREET. THESE CABLES HAVE BEEN PROVIDED TO AVOID CONFLICTS BETWEEN EARTHWORK AND ELECTRICAL INFRASTRUCTURE INSTALLATION WITHIN THE DAN RYAN PARKWAY (AREA BETWEEN LOCAL LANES, RAMPS, AND FRONTAGE ROAD).
 ANY EXTRA COSTS AND REPAIRS ASSOCIATED WITH THE INSTALLATION OF PERMANENT ELECTRICAL INFRASTRUCTURE IMPROVEMENTS, WITHIN THE DAN RYAN PARKWAY, PRIOR TO THE SUBSTANTIAL COMPLETION OF EARTHWORK OPERATIONS SHALL BE THE RESPONSIBILITY OF THIS CONTRACT.