

GENERAL NOTES CONT.

27. WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
28. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL EXISTING MAILBOXES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND AFTER COMPLETION OF ROADWAY CONSTRUCTIONS, TO SET THEM IN THEIR PERMANENT LOCATIONS PER UNITED STATES POST OFFICE REQUIREMENTS. THIS WORK SHALL BE DONE IN CONFORMANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS, AND THE COST WILL BE CONSIDERED INCLUDED IN THE CONTRACT.
29. THE INDISCRIMINATE USE OF FIRE HYDRANTS OR EXISTING STREAMS, CREEKS, WETLANDS OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE ENGINEER PRIOR TO USE OF THE WATER.

STORM SEWERS, WATER MAINS, AND UTILITIES

1. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
2. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
3. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN AN OPERATING CONDITION, TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY THE EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
4. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW, ADJUSTED OR RECONSTRUCTED STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE, ADJUSTMENT OR RECONSTRUCTION COST.
5. ONLY PRECAST CONCRETE ADJUSTMENT RINGS, MAXIMUM OF 12" IN HEIGHT, WILL BE ALLOWED IN THE ADJUSTMENT OR RECONSTRUCTION OF CATCH BASIN, MANHOLE, INLET AND VALVE VAULT STRUCTURES. THE RINGS SHALL BE INCLUDED IN THE COST OF WORK BEING PERFORMED.
6. JOINT TIES FOR CONCRETE PIPES INSTALLED ALONG KENOSHA ROAD SHALL BE INSTALLED PER LAKE COUNTY DEPARTMENT OF TRANSPORTATION STANDARD DETAIL LC5402 "JOINT TIES FOR CONCRETE PIPE"

ALL FIRE HYDRANTS TO BE MOVED SHALL BE MUELLER CENTURION A423 OR AMERICAN FLOW WATER PACER WB-67-250. ALL NUTS AND BOLTS SHALL BE REPLACED WITH TYPE 304 STAINLESS STEEL HARDWARE, REGARDLESS OF ORIGINAL MATERIAL. A 3/16 INCH BARE CABLE DIAMETER, 7x19 STRAND CORE, TYPE 304 STAINLESS STEEL WIRE CABLE, NYLON COATED SHALL BE USED WITH ALL FIRE HYDRANTS AND AFFIXED TO THE HYDRANT FLANGE IN A HDPE BRACKET ACCESS BOX.

BACKFILL

1. FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
2. PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES WITHIN 2' OF PAVED AREAS. ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON PIPE SIZE AND INVERT DEPTH FROM SUBGRADE.
3. THE PAY ITEM FOR STORM SEWER REMOVAL SHALL INCLUDE ANY TRENCH BACKFILL REQUIRED TO FILL AREA OF SEWER REMOVAL WHERE THERE IS NO REPLACEMENT. IF PROPOSED STORM SEWER IS REPLACED IN THE SAME TRENCH, THEN TRENCH BACKFILL SHALL BE PAID FOR SEPARATELY.

SIGNING AND STRIPING

1. SEE DISTRICT ONE DETAIL AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.
2. SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
3. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
4. LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 729 OF THE STANDARD SPECIFICATIONS AND INCLUDED IN THE UNIT COST OF METAL POST - TYPE B.
5. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKING.

GENERAL NOTES CONT.

TRAFFIC SIGNALS

1. IT SHALL BE IN THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATION AND VERIFYING THE MAST ARMS' LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANYWORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 (48 HOURS NOTIFICATION REQUIRED).
3. IF THIS CONTRCT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
4. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
5. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED MATERIAL, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
6. A CONCRETE APRON SHALL NOT BE REQUIRED FOR NEW UPS INTALLATIONS ADJACENT TO EXISTING IMPERVIOUS SURFACES THAT SATISFY THE NEED OF CONCRETE APRON, AS DIRECTED BY THE ENGINEER.

EROSION CONTROL PLANS

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
2. PROPERTIES AND CHANNELS ADJOINING THE SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL AND MAINTAIN SILT FENCE PRIOR TO BEGINNING ANY CONSTRUCTION.
3. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
4. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN ONE (1) CALENDAR DAY FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
5. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
6. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
7. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO THE CONSTRUCTION SITE, CHANNEL, WATERS OF THE UNITED STATES. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
9. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
10. PERMANENT EROSION CONTROL SHALL INCLUDE TOPSOIL EXCAVATION AND PLACEMENT, TOPSOIL FURNISH AND PLACE, 4" AND SEEDING, CLASS 2A TO BE PROVIDED IN ACCORDANCE WITH ARTICLE 250 OF THE STANDARD SPECIFICATIONS.
11. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL).
12. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
13. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24-HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
14. THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION.

GENERAL NOTES CONT.


14. THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION.
15. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
16. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
17. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
18. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.
19. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AND EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
20. THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: 'PROTECTED WETLAND-NO INTRUSION.' THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN(S) SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.
21. THE LOCATIONS OF PROPOSED TREES TO BE PLANTED WILL BE WITHIN THE PROJECT LIMITS AND DETERMINED BY THE RESIDENT ENGINEER AND BY MELISSA DEL ROSARIO, IDOT MAINTENANCE ROADSIDE DEVELOPMENT UNIT. CONTRACTOR SHALL CONTACT BOTH THE RESIDENT ENGINEER AND MELISSA DEL ROSARIO AT (847) 705-4391 A WEEK IN ADVANCE PRIOR TO PLANTING.

EARTHWORK

1. SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.
2. PIPE UNDERDRAINS TYPE 2 SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARD 601001. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE BOTTOM OF AGGREGATE SUBGRADE IMPROVEMENT WHEN POSSIBLE. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
3. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	32-N-6(15)	LAKE	105	3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B75	

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 SCALE: NTS SHEET NO. 1 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	32-N-6(15)	LAKE	105	4
CONTRACT NO. 62B75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				URBAN			
				90% FED 10% STATE	100% COUNTY	90% FED 6.7% STATE 3.3% COUNTY	100% VILLAGE
				0004	0004	0021	0021
				ROADWAY	ROADWAY	SIGNALS	SIGNALS
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,095	212	883		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	656	118	538		
20101000	TEMPORARY FENCE	FOOT	557	398	159		
20200100	EARTH EXCAVATION	CU YD	8,108	4,805	3,303		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	846	297	549		
20800150	TRENCH BACKFILL	CU YD	60	39	21		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	4,805		4,805		
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	12,245	9,587	2,658		
* 21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	6,385	960	5,425		
* 25000210	SEEDING, CLASS 2A	ACRE	2.75	2.00	0.75		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	253	176	77		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	253	176	77		
* 25100115	MULCH, METHOD 2	ACRE	3.00	2.00	1.00		
* 25100630	EROSION CONTROL BLANKET	SQ YD	17,406	10,546	6,860		
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	285	213	72		
28000305	TEMPORARY DITCH CHECKS	FOOT	360	320	40		
28000400	PERIMETER EROSION BARRIER	FOOT	2,343	1,815	528		
28000500	INLET AND PIPE PROTECTION	EACH	9	6	3		
28000510	INLET FILTERS	EACH	3		3		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	13,552	9,427	4,125		
28100107	STONE RIPRAP, CLASS A4	SQ YD	47	47			
28200200	FILTER FABRIC	SQ YD	47	47			
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	578	157	421		
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	9,738	4,693	5,045		

* SPECIAL TY ITEMS

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 SCALE: NTS SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	32-N-6(15)	LAKE	105	6
CONTRACT NO. 62B75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				URBAN			
				90% FED 10% STATE	100% COUNTY	90% FED 6.7% STATE 3.3% COUNTY	100% VILLAGE
				0004	0004	0021	0021
				ROADWAY	ROADWAY	SIGNALS	SIGNALS
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	1	1		
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1			
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2			
54214503	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 18"	EACH	2	2			
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	8	4	4		
54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	2	2			
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	2	2			
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	42	42			
542A5473	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FOOT	55	55			
542A5479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	249	106	143		
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	56	56			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	228	77	151		
55100700	STORM SEWER REMOVAL 15"	FOOT	167	167			
56400100	FIRE HYDRANTS TO BE MOVED	EACH	2	2			
56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	3	3			
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	9	9			
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	172	172			
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	4,450	3,567	883		
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2		2		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2			
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	4	4			
60500040	REMOVING MANHOLES	EACH	1	1			
60500050	REMOVING CATCH BASINS	EACH	2		2		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	208		208		

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**STATE OF ILLINOIS
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SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET NO. 4 OF 8 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	32-N-6(15)	LAKE	105	7
CONTRACT NO. 62B75			ILLINOIS FED. AID PROJECT	

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				90% FED 10% STATE	100% COUNTY	90% FED 6.7% STATE 3.3% COUNTY	100% VILLAGE
				0004 ROADWAY	0004 ROADWAY	0021 SIGNALS	0021 SIGNALS
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	7,600	4,560	2,280	760	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	7	4	2	1	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	0.5	0.5		
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	60	40	20		
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	0.5	0.5		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	13	5		
67100100	MOBILIZATION	L SUM	1	0.7	0.3		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	540	300	180	60	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	717	530	187		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	240	177	63		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	510	364	146		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10,245	7,259	2,986		
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	1,694		1,694		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,384	1,143	241		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	330	330			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	182	151	31		
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	1,132	1,132			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4,285	4,075	210		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4,285	4,075	210		
70600305	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, RESETTABLE), TEST LEVEL 3	EACH	10	9	1		
70600330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	10	9	1		
* 72000100	SIGN PANEL - TYPE 1	SO FT	162.5	86	60	16.5	
* 72000200	SIGN PANEL - TYPE 2	SO FT	15			15	
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	6	3	3		

1

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 PROJECT CONTACT: HRGreen
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 PLOT DATE = 3/21/2019

DESIGNED - BH
 DRAWN - DMS
 CHECKED -
 DATE - 3/21/19

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 SCALE: NTS SHEET NO. 8 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	32-N-6(15)	LAKE	105	11
CONTRACT NO.			62B75	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

URBAN

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				90% FED 10% STATE	100% COUNTY	90% FED 6.7% STATE 3.3% COUNTY	100% VILLAGE
				0004 ROADWAY	0004 ROADWAY	0021 SIGNALS	0021 SIGNALS
* X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	53		53		
* X7830060	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	146		146		
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	2,986		2,986		
* X7830072	GROOVING FOR RECESSED PAVEMENT MARKING 6"	FOOT	1,694		1,694		
* X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	241		241		
* X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	161		161		
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	31		31		
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1			1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	78	52	26		
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	875	875			
Z0056670	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 18"	FOOT	80	80			
Z0056672	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 24"	FOOT	105	105			
Z0062456	TEMPORARY PAVEMENT	SQ YD	506	506			
Ø Z0076600	TRAINEES	HOUR	500	500			
54248130	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 24"	EACH	6	2	4		
54248160	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 30"	EACH	2	2			
* A2C026G4	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), CONTAINER GROWN, 15-GALLON (ROOT PRODUCTION METHOD)	EACH	20	10	10		
* A2C041G4	TREE, OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM), CONTAINER GROWN, 15-GALLON (ROOT PRODUCTION METHOD)	EACH	15	8	7		
* A2C35G14	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), CONTAINER GROWN, 15-GALLON (ROOT PRODUCTION METHOD,)	EACH	20	10	10		
* A2006728	TREE, QUERCUS MACROCARPA (BURR OAK), CONTAINER GROWN, 15-GALLON (ROOT PRODUCTION METHOD)	EACH	20	10	10		
* A2C052G4	TREE, QUERCUS ELLIPSOIDALIS (HILL'S OAK), CONTAINER GROWN, 15-GALLON (ROOT PRODUCTION METHOD)	EACH	20	10	10		
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500			

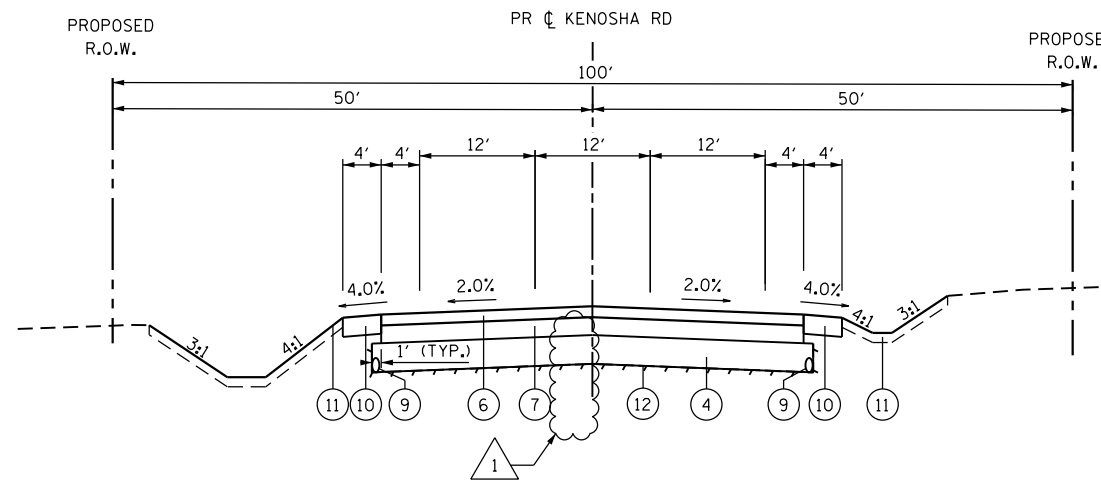


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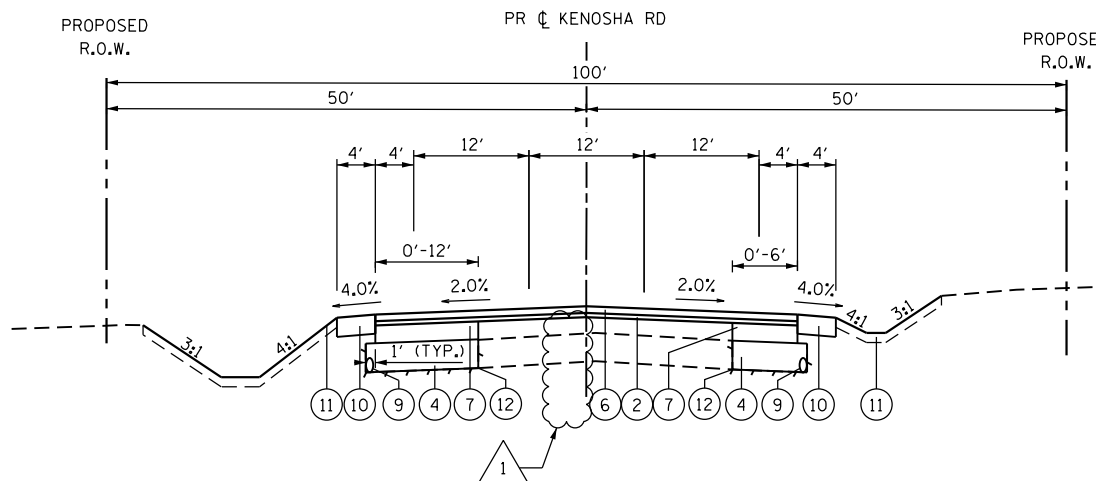
* SPECIALTY ITEMS

PROPOSED LEGEND

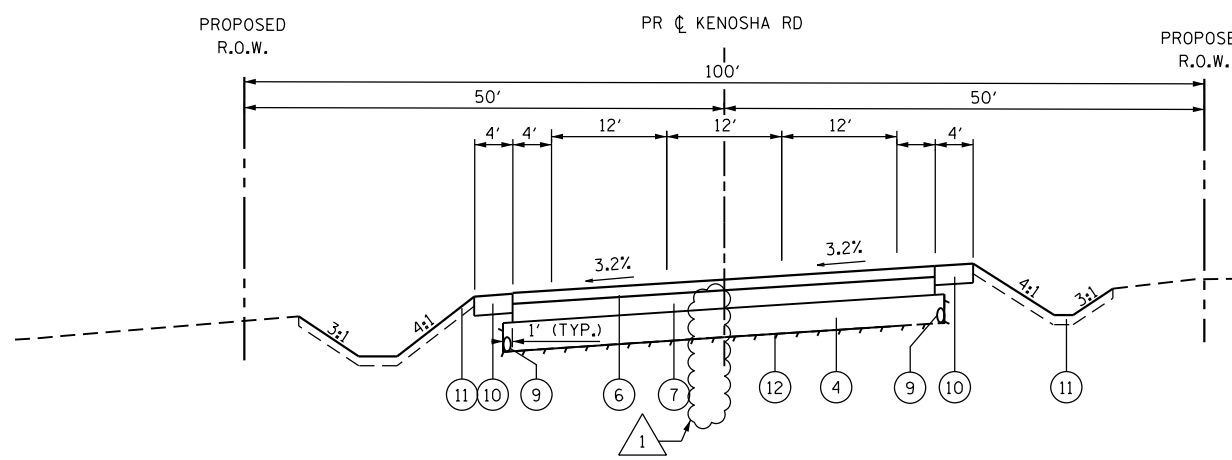
- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 2"
- 2 POLYMERIZED LEVELING BINDER, (M.M.), IL-4.75, N50; 1"
- 3 HOT-MIX ASPHALT BASE COURSE; 8 1/4"
- 4 AGGREGATE SUBGRADE IMPROVEMENT, 12" (SO YD)
- 5 HOT-MIX ASPHALT SHOULDERS, 8"
- 6 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 2"
- 7 HOT-MIX ASPHALT BASE COURSE; 7 1/2"
- 8 HOT-MIX ASPHALT BASE CSE WIDENING 8 1/4"
- 9 PIPE UNDERDRAINS, TYPE 2, 4"
- 10 AGGREGATE SHOULDER, 6"
- 11 TOPSOIL, F & P 4" SEEDING CLASS 2A
- 12 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 13 TOPSOIL, F & P 12" SEEDING CLASS 4 (MODIFIED) SEEDING CLASS 5 (MODIFIED)



PROPOSED TYPICAL SECTION
KENOSHA ROAD
STA 4+23.95 TO STA 6+76.38
STA 12+66.72 TO STA 13+45

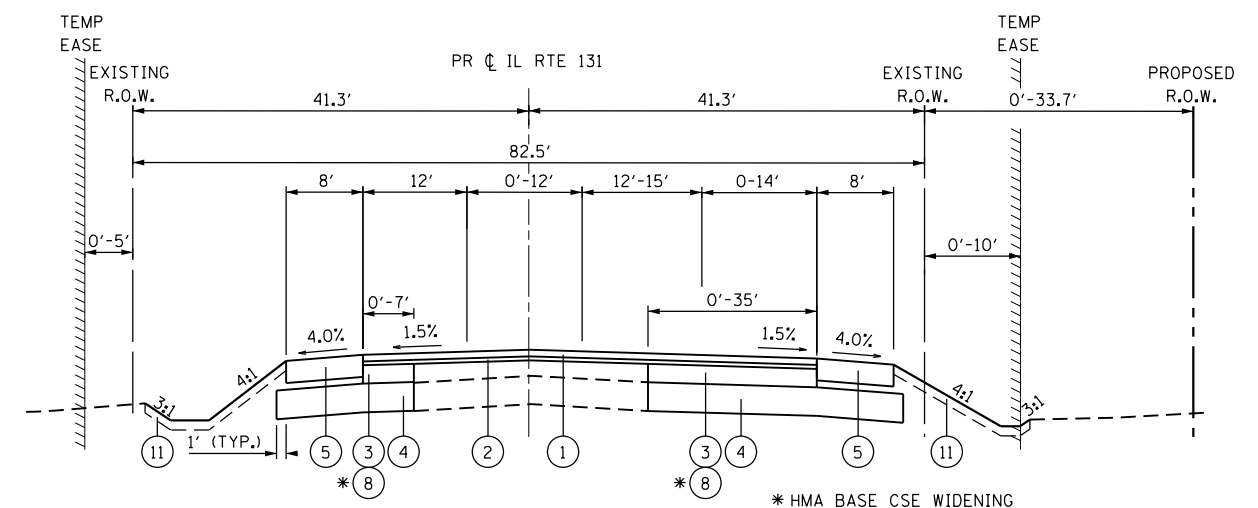


PROPOSED TYPICAL SECTION
KENOSHA ROAD
STA 12+00 TO STA 13+45



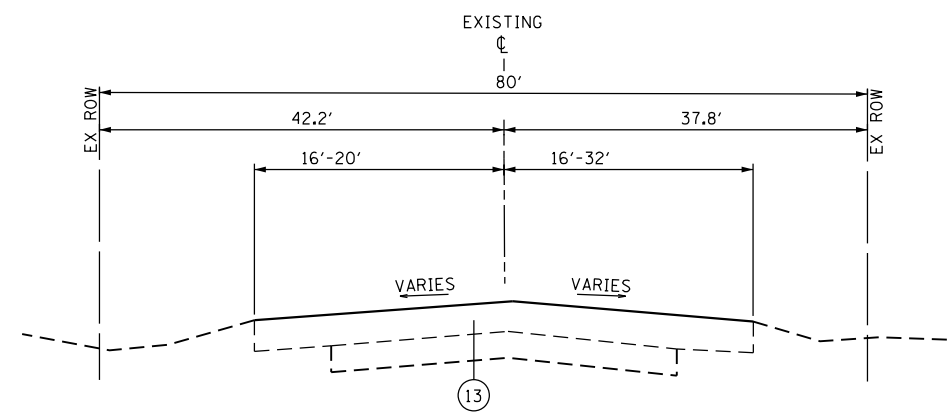
PROPOSED TYPICAL SECTION
KENOSHA ROAD
STA 6+76.38 TO STA 12+66.72

* LONGITUDINAL JOINT SEALANT TO BE PLACED OVER THE HMA BASE COURSE, WHERE THE SURFACE MIX JOINT WILL BE LOCATED

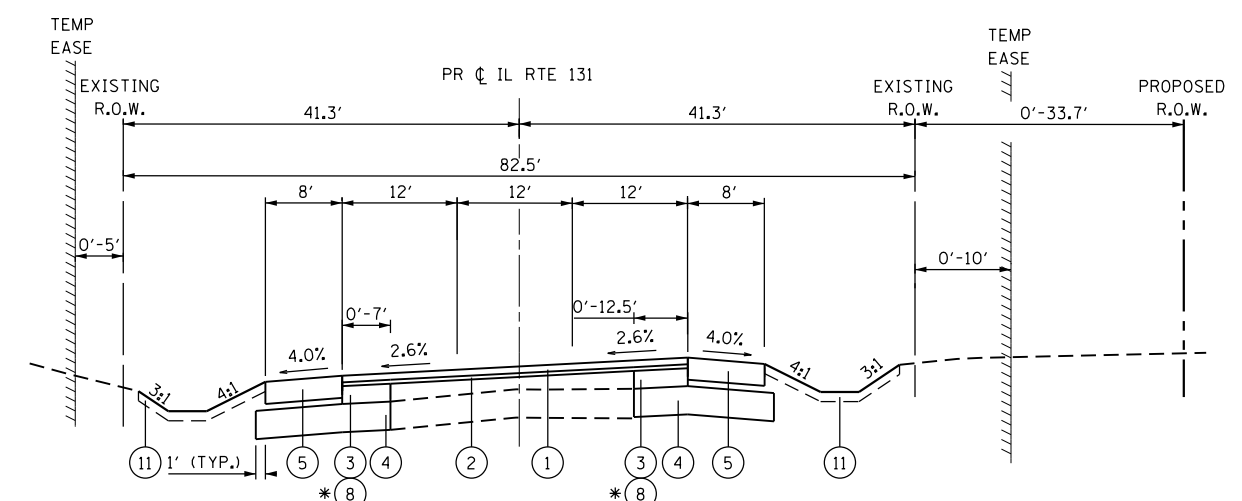


PROPOSED TYPICAL SECTION
ILLINOIS ROUTE 131
STA 1791+84.52 TO STA 1797+27.56
STA 1804+72.36 TO STA 1814+76.37

* HMA BASE CSE WIDENING
STA. 1791+84.52 TO 1795+50.00
STA. 1810+00.00 TO STA. 1814+76.37



PROPOSED TYPICAL SECTION
EX KENOSHA ROAD
STA 1000+42.11 TO STA 1010+49



PROPOSED TYPICAL SECTION
ILLINOIS ROUTE 131
STA 1797+27.56 TO STA 1804+72.36

* HMA BASE CSE WIDENING
STA. 1797+27.56 TO 1803+41.42

COMPANY NAME: HRGreen.com
PROJECT CONTACT: bhartma
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

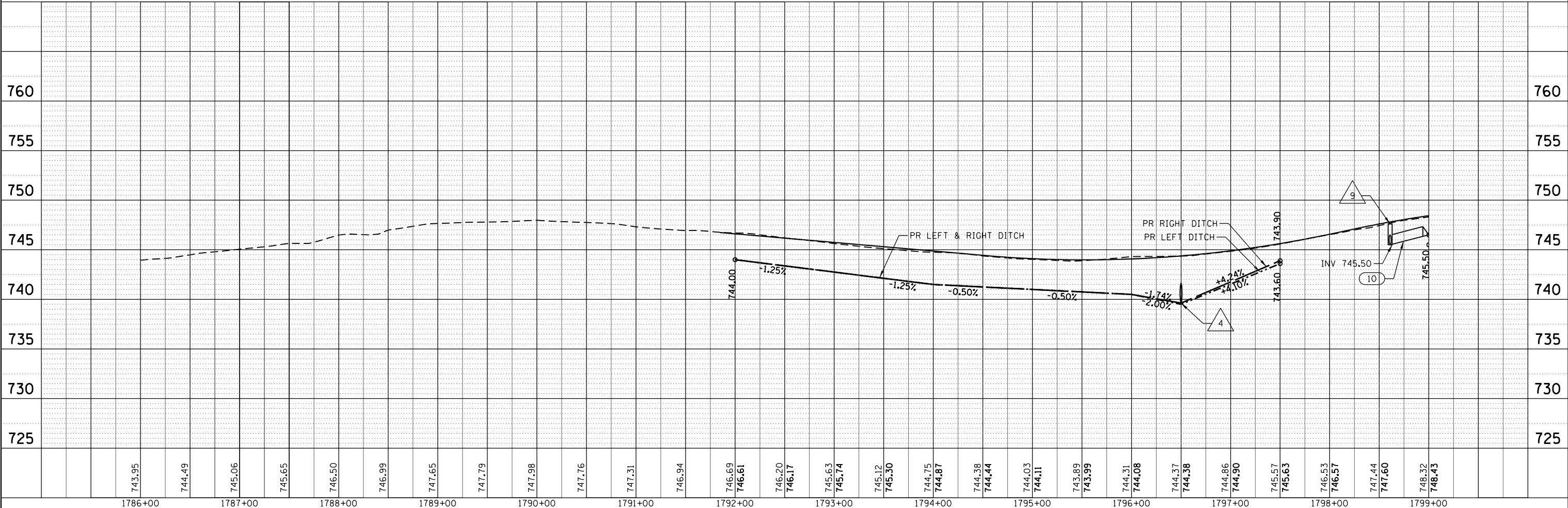
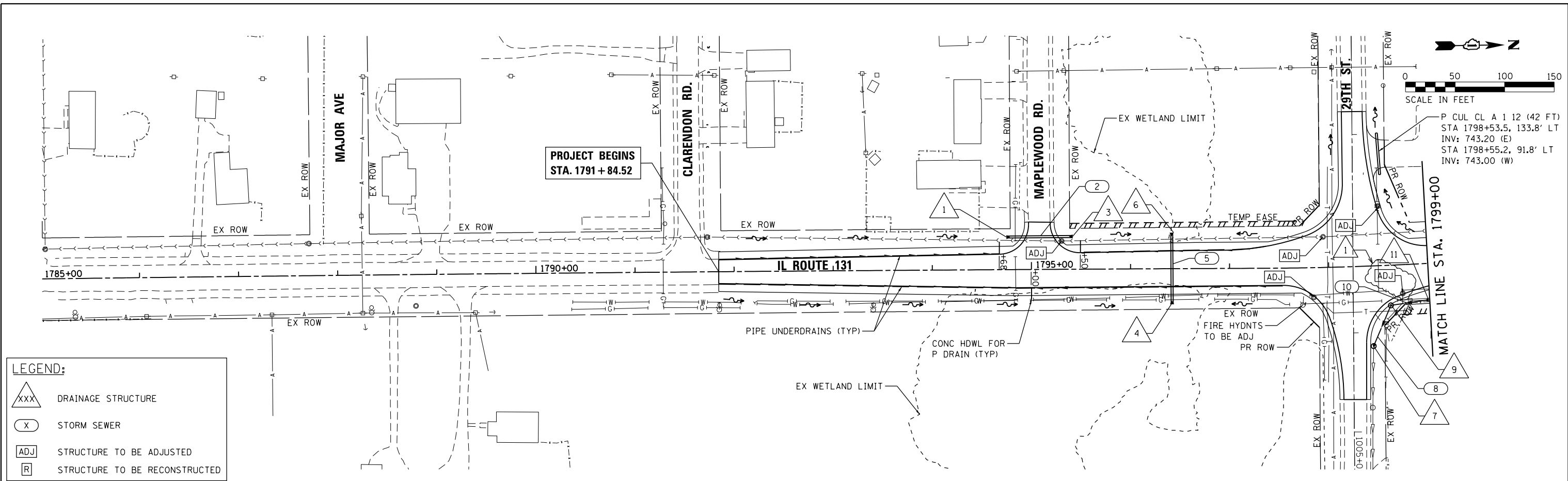
**PROPOSED TYPICAL SECTIONS
ILLINOIS ROUTE 131 & KENOSHA ROAD**
SCALE: NTS SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	32-N-6(15)	LAKE	105	13
CONTRACT NO. 62B75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
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	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK		
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	STRUCTURE		
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COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
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 PEN TABLE: PEN TABLE



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1786+00	1787+00	1788+00	1789+00	1790+00	1791+00	1792+00	1793+00	1794+00	1795+00	1796+00	1797+00	1798+00	1799+00																												

HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

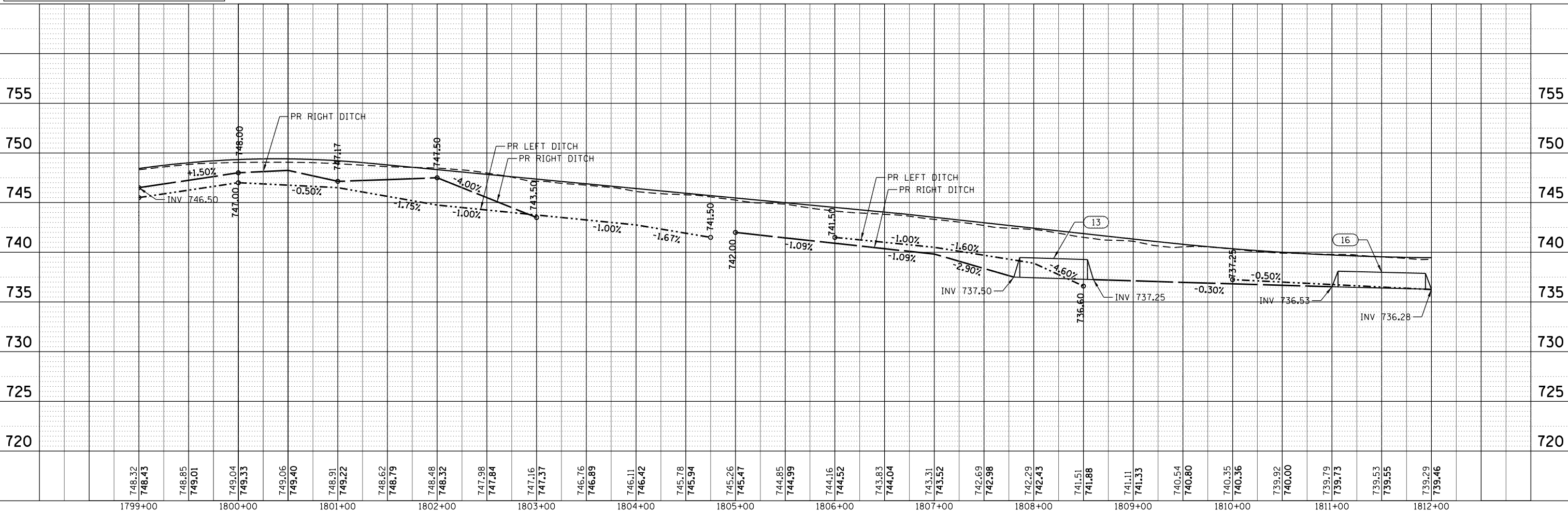
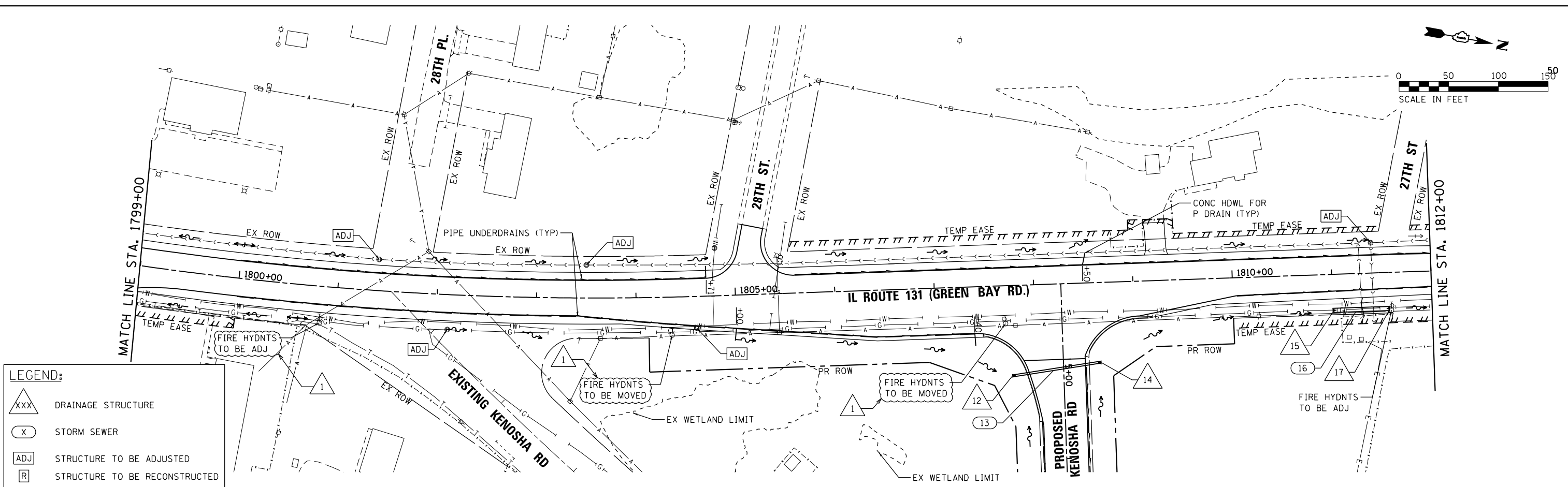
DRAINAGE & UTILITY PLAN AND PROFILE
ILLINOIS ROUTE 131
 SCALE: 1" = 50' SHEET NO. 1 OF 5 SHEETS STA. BEG TO STA. 1799+00

F.A.U. RTE. 2711	SECTION 32-N-6(15)	COUNTY LAKE	TOTAL SHEETS 105	SHEET NO. 32
CONTRACT NO. 62B75			ILLINOIS FED. AID PROJECT	

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	CHECKED		
	CARD FILED		
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PROFILE	SURVEYED	BY	DATE
	PLOTTED		
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COMPANY NAME: HRGreen
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PLOT DATE = 5/30/2019	DATE - 3/21/19	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY PLAN AND PROFILE
 ILLINOIS ROUTE 131
 SCALE: 1" = 50'
 SHEET NO. 2 OF 5 SHEETS
 STA. 1799+00 TO STA. 1812+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	32-N-6(15)	LAKE	105	33
			CONTRACT NO.	62B75
			ILLINOIS FED. AID PROJECT	

STORM STRUCTURE SCHEDULE

STRUCTURE NO.	STATION	OFFSET	TYPE	FRAME & GRATE	RIM ELEVATION	DRAINAGE INVERTS							
						NORTH	NORTHEAST	EAST	SOUTHEAST	SOUTH	SOUTHWEST	WEST	NORTHWEST
1	1794+75.00	32.8' LT	PRC FL END S EQ RS 18	-	-	-	-	-	-	741.10	-	-	-
3	1794+41.71	33.0' LT	PRC FL END S EQ RS 18	-	-	740.60	-	-	-	-	-	-	-
4	1796+41.74	35.8' RT	PRC FL END S EQ RS 24	-	-	-	-	740.76	-	-	-	-	-
6	1796+41.62	36.3' LT	PRC FL END S EQ RS 24	-	-	-	-	-	-	-	739.96	-	-
7	1798+42.40	80.8' RT	MAN TA 4 DIA TIF CL	TYPE 1, CL	747.50	-	-	745.25	-	-	745.25	-	-
9	1798+61.01	40.5' RT	MAN TA 4 DIA TIF CL	TYPE 1, CL	747.60	745.50	-	745.50	-	-	-	-	-
11	1798+98.86	36.8' RT	PRC FLAR END SEC 12	-	-	746.50	-	-	-	-	-	-	-
12	5+03.96	52.1' RT	PRC FL END S EQ RS 24	-	-	-	-	-	-	737.50	-	-	-
14	5+10.50	38.2' LT	PRC FL END S EQ RS 24	-	-	737.25	-	-	-	-	-	-	-
15	1810+99.78	36.3' RT	PRC FL END S EQ RS 24	-	-	-	-	-	-	736.53	-	-	-
17	1811+57.69	36.3' RT	PRC FL END S EQ RS 24	-	-	736.28	-	-	-	-	-	-	-
18	1813+00.49	35.0' RT	PRC FLAR END SEC 24	-	-	-	-	-	-	735.98	-	-	-
20	1814+37.99	31.2' RT	PRC FLAR END SEC 18	-	-	736.05	-	-	-	-	-	-	-
22	1813+49.99	34.4' RT	MAN TA 6 DIA TIF CL	TYPE 1, CL	738.90	735.75	-	-	-	735.65	-	735.65	-
24	1813+50.07	36.2' LT	PRC FLAR END SEC 24	-	-	-	-	-	-	-	735.50	-	-
25	7+74.24	40.1' RT	PRC FL END S EQ RS 24	-	-	-	-	-	-	738.25	-	-	-
27	7+73.07	36.0' LT	PRC FL END S EQ RS 24	-	-	737.85	-	-	-	-	-	-	-
28	11+99.77	37.9' LT	CB TA 4 DIA T8 F&G	TYPE 8	740.40	737.82	-	737.82	-	-	737.82	-	-
30	12+63.84	36.4' LT	CB TA 4 DIA T8 F&G	TYPE 8	741.20	738.10	-	-	-	738.10	-	-	-
32	13+61.87	21.1' LT	PRC FLAR END SEC 12	-	-	-	-	-	-	740.88	-	-	-

STORM SEWER SCHEDULE

PIPE NO.	FROM STRUCT.	TO STRUCT.	TYPE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YD)
2	1	3	P CUL CL A 1 EQRS 18	18 EQ	55	0.91%	4.4
5	4	6	P CUL CL A 1 EQRS 24	24 EQ	56	1.43%	21.2
8	7	9	STORM SEW CL A 1 12	12	41	0.61%	0.0
10	9	11	STORM SEW CL A 1 12	12	36	2.78%	0.0
13	12	14	P CUL CL A 1 EQRS 24	24 EQ	79	0.32%	12.0
16	15	17	P CUL CL A 1 EQRS 24	24 EQ	46	0.54%	2.5
19	18	22	SS 2 WAT MN 24	24	41	0.80%	2.1
21	20	22	SS 2 WAT MN 18	18	80	0.37%	2.4
23	22	24	SS 2 WAT MN 24	24	64	0.23%	5.6
26	25	27	P CUL CL A 1 EQRS 24	24 EQ	64	0.62%	8.3
29	20	30	STORM SEW CL A 1 12	12	57	0.49%	0.0
31	30	32	STORM SEW CL A 1 12	12	94	2.96%	0.0

COMPANY NAME: HRGreen
 PROJECT CONTACT: bhartma
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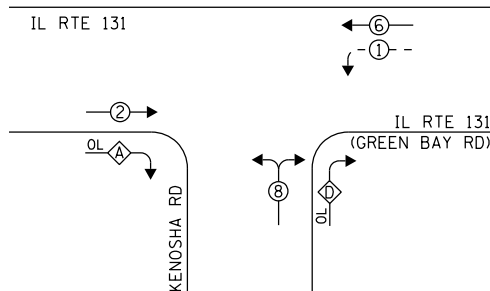
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY SCHEDULE	
ILLINOIS ROUTE 131 AND KENOSHA ROAD	
SCALE: NTS	SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	32-N-6(15)	LAKE	105	36
CONTRACT NO. 62875			ILLINOIS FED. AID PROJECT	

PROPOSED CONTROLLER SEQUENCE

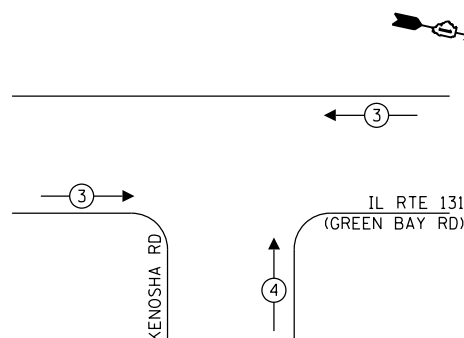


- LEGEND:**
- ⊛ — PROTECTED PHASE
 - ⊛ — PROTECTED/PERMITTED PHASE
 - ⊛ — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



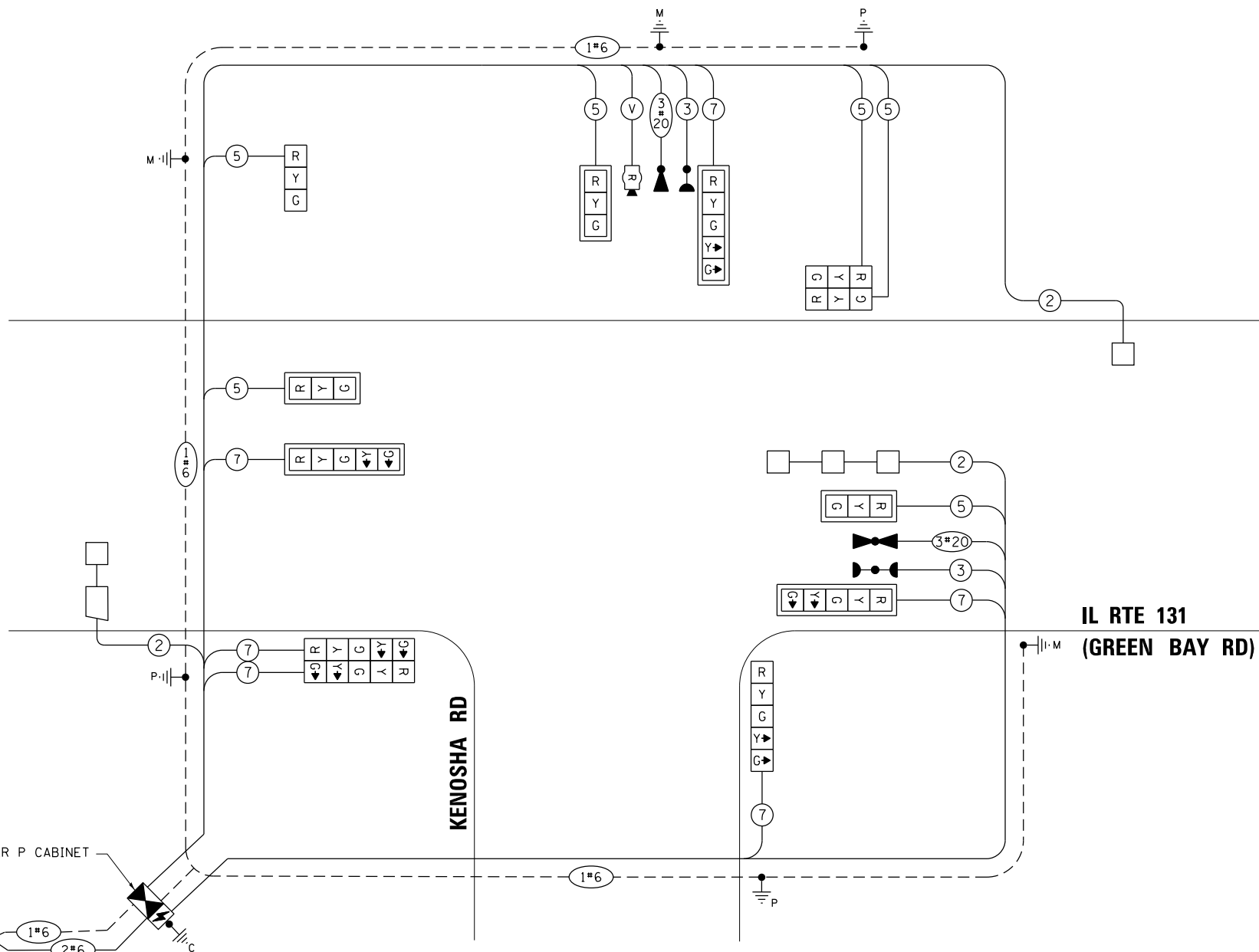
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.00
(YELLOW)	12	20	5	12.00
(GREEN)	12	12	45	64.80
PERMISSIVE ARROW	12	10	10	12.00
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				279.80

ENERGY COSTS TO:

ILLINOIS DEPT. OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: MAGDALIA RIVERA
PHONE: (847) 816-5489
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 10

AMES Engineering, Inc.
CONSULTING ENGINEERS
5413 Walnut Avenue, Ste 2
Downers Grove, IL 60515

USER NAME = *USER*	DESIGNED - TM	REVISED - TM 05-06-2019
PLOT SCALE = *SCALE*	DRAWN - RV	REVISED - AS 05-30-2019
PLOT DATE = *DATE*	CHECKED - MAS	REVISED -
	DATE - 10-17-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 131 (GREEN BAY RD) AND KENOSHA RD**

SCALE: SHEET NO. T.S. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2711	32-N-6-(15)	LAKE	105	66
CONTRACT NO. 62B75				
ILLINOIS FED. AID PROJECT				

TS 7026