DRAINAGE SCHEDULE

PAY ITEM	UNIT	QUANTITY
TRENCH BACKFILL	CU.YD.	2,146
PIPE CULVERT REMOVAL	FOOT	72
PIPE CULVERTS, CLASS A, TYPE 1 12''	FOOT	58
PIPE CULVERTS, CLASS A, TYPE 1 15''	FOOT	80
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12''	EACH	2
PRECAST REINFORCED CONCRETE FLARED END SECTION 15''	EACH	1
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21''	EACH	2
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24''	EACH	1
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36''	EACH	2
STORM SEWERS, CLASS A, TYPE 2 12''	FOOT	1,006
STORM SEWERS, CLASS A, TYPE 2 15''	FOOT	182
STORM SEWERS, CLASS A, TYPE 2 21''	FOOT	455
STORM SEWERS, CLASS A, TYPE 2 24''	FOOT	448
STORM SEWERS, CLASS A, TYPE 2 30''	FOOT	155
STORM SEWERS, CLASS A, TYPE 2 36''	FOOT	731
STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND SIZE 30''	FOOT	289
CONTROLLED LOW-STRENGTH MATERIAL	CU.YD.	16
CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	6
CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	13
MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1
MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3
MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7
MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	2
FRAMES AND GRATES TO BE ADJUSTED	EACH	5
REMOVE EXISTING FLARED END SECTION	EACH	1
REMOVE AND REPLACE LID	EACH	1
STEEL CASING PIPE, AUGERED AND JACKED 30''	FOOT	40

DRAINAGE AND UTILITIES GENERAL NOTES:

1. ALL STORM SEWERS AND PIPE CULVERTS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE IDOT STANDARD AND SUPPLEMENTAL SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE A.A.S.H.T.O. DESIGNATION M170 (A.S.T.M. DESIGNATION C76), WITH A MINIMUM OF CLASS III.

2. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTION WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

3. ALL BACKFILLING OPERATIONS SHALL CONFORM TO ARTICLE 550.07 OF THE IDOT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

4. TRENCH BACKFILL SHALL BE USED ON THE ENTIRE LENGTH OF THE MAIN DRAIN.

5. ALL BENDS SHOWN WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID PER FOOT OF THE RESPECTIVE SIZE STORM SEWER.

6. PREFORMED FLEXIBLE GASKETS ARE TO BE USED ON ALL CIRCULAR STORM SEWERS AND CULVERTS AND SHALL CONFORM TO ARTICLE 1056.01 OF THE STANDARD AND SUPPLEMENTAL SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID PER FOOT FOR STORM SEWER OF SPECIFIED SIZE.

7. THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY OWNERS. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNER OF THE UTILITY.

8. EMBANKMENTS SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER PRIOR TO EXCAVATION FOR STORM SEWER.

9. THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING MANHOLE SHALL BE INCIDENTAL TO THE COST OF STORM SEWER.

10. INVERT ELEVATIONS FOR PROPOSED DRAINAGE STRUCTURES TO BE CONNECTED TO EXISTING STRUCTURES ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR IS TO VERIFY AND ADJUST PROPOSED INVERTS AS NECESSARY IN ORDER TO ACHIEVE POSITIVE DRAINAGE.

11. ALL ADJUSTMENTS OR RECONSTRUCTIONS REQUIRED FOR STRUCTURES SHALL INCLUDE THE REMOVAL AND REPLACEMENT, AT THE CONTRACTOR'S EXPENSE, OF ALL UNSUITABLE 24 INCH INSIDE DIAMETER ADJUSTING RINGS.

12. IT IS UNDERSTOOD THAT THE PAY ITEM FOR STORM SEWER REMOVAL DOES NOT INCLUDE THE PROVISION OF FINE AGGREGATE TRENCH BACKFILL MATERIAL AS DESCRIBED IN ARTICLE 208.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. AN ESTIMATED QUANTITY OF TRENCH BACKFILL HAS BEEN ADDED TO THE PLANS FOR THE PURPOSES OF BACKFILLING THE TRENCH REMAINING FROM THE STORM SEWER REMOVAL TO BE USED AT THE DIRECTION OF THE ENGINEER.

13. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT NOT ALL THE EXISTING UNDERGROUND UTILITIES HAVE BEEN DELINEATED ON THE PLANS AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING KNOWN UTILITIES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR DELAYS ARISING FROM ANY WORK PERFORMED BY THE UTILITY COMPANY.

14. THE CONTRACTOR SHOULD CONTACT J.U.L.I.E. AT LEAST 48 HOURS BEFORE START OF CONSTRUCTION AT 1-800-892-0123.

15. OFFSETS FOR DRAINAGE STRUCTURES ARE TO CENTER OF FRAME.

FILE NAME = $FILE$

SHT_PLAN

USER NAME = $USER$	DESIGNED - MTM	REVISED - 5/2/14 BA
	DRAWN - MTM	REVISED -
PLOT SCALE = $SCALE$	CHECKED - BA	REVISED -
PLOT DATE = $DATE$	DATE - 3/31/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE AND UTILITIES
US RTE 20 (NORTH JUNCTION)

SCALE: N.T.S. | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	106-S-N-1	KANE	167	51
		CONTRACT NO. 60T10		
	ILLINOIS FED. AID PROJECT			