

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	109
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18
20100500	TREE REMOVAL, ACRES	ACRE	0.4
20200100	EARTH EXCAVATION	CU YD	2985
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	124
20800150	TRENCH BACKFILL	CU YD	665
25000100	SEEDING, CLASS 1	ACRE	1.6
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	151
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	151
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	151
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3
25100115	MULCH, METHOD 2	ACRE	2
25100630	EROSION CONTROL BLANKET	SQ YD	2437
25200100	SODDING	SQ YD	564
25200200	SUPPLEMENTAL WATERING	UNIT	125
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	11
28000400	PERIMETER EROSION BARRIER	FOOT	320
28000500	INLET AND PIPE PROTECTION	EACH	7
28100101	STONE RIPRAP, CLASS A1	SQ YD	8
28200200	FILTER FABRIC	SQ YD	8
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	4376
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	99
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	142
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	20
42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINED)	SQ YD	3595
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	321
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	9933
42400800	DETECTABLE WARNINGS	SQ FT	131
44000100	PAVEMENT REMOVAL	SQ YD	229
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	234
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	117
44000600	SIDEWALK REMOVAL	SQ FT	197
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	16
50105200	REMOVE EXISTING CULVERTS	EACH	5
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	378
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	440
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	196
55100500	STORM SEWER REMOVAL 12"	FOOT	88
60100955	PIPE DRAINS 15"	FOOT	80
60224600	RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
60237000	INLETS, TYPE A, TYPE 15 FRAME AND LID	EACH	1
60255500	MANHOLES TO BE ADJUSTED	EACH	1
60500060	REMOVING INLETS	EACH	3
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	2237
60900515	CONCRETE THRUST BLOCKS	EACH	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	76
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	52
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	264
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	644
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	132
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	36
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	610
72000100	SIGN PANEL - TYPE 1	SQ FT	45
72900100	METAL POST - TYPE A	FOOT	27
72900200	METAL POST - TYPE B	FOOT	85
78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	52
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	264
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	644
78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	132
78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	36
X0324547	RESTRICTED DEPTH INLET TYPE B, TYPE 15 FRAME AND LID	EACH	4
X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	3
X6020127	RESTRICTED DEPTH INLET TYPE B, TYPE 3V FRAME AND GRATE	EACH	1
XX002895	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW FRAME & LID	EACH	1
60224110	RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	5
XX006978	RESTRICTED DEPTH MANHOLE 5' DIAMETER, TYPE 3V FRAME & GRATE, SPECIAL	EACH	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0051500	REMOVING AND RESETTING STREET SIGNS	EACH	2

\*- SEE SPECIAL PROVISIONS

GENERAL NOTES

- ALL ELEVATIONS SHOWN ARE BASED ON VERTICAL DATUM AS PROVIDED BY THE CITY OF EFFINGHAM.
- WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM "STANDARD SPECIFICATIONS" IS USED IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED ON JANUARY 1, 2007, AND AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AS LISTED ON THE COVER SHEET.
- UTILITY LOCATIONS WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES. LOCATION ACCURACY SHOULD BE CONSIDERED APPROXIMATE. THE CITY AND ITS ENGINEER ASSUME NO RESPONSIBILITY WHATEVER FOR EITHER THE ACCURACY OF THE LOCATIONS SHOWN OR FOR THE COMPLETENESS OF THE DEPICTED UTILITY INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE EXACT UTILITY LOCATIONS AND TO PROTECT SAME.
- UTILITY OWNERS:
 

CENTRAL ILLINOIS PUBLIC SERVICE COMPANY 1800 FORD AVE. EFFINGHAM, IL 62401 217/342-2540	CITY OF EFFINGHAM WATER & SEWER DEPARTMENT 201 EAST JEFFERSON EFFINGHAM, IL 62401 217/342-5359
ILLINOIS CONSOLIDATED TELEPHONE COMPANY 407 SOUTH FIFTH STREET EFFINGHAM, IL 62401 217/342-9946	TCI CABLEVISION 710 WEST JEFFERSON EFFINGHAM, IL 62401 217/342-6656
- NOTIFY J.U.L.I.E. 1-800-892-0123 FOR FIELD LOCATES OF NON-CITY UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 96 HOURS IN ADVANCE OF THE ANTICIPATED START OF CONSTRUCTION OPERATIONS THAT WILL INVOLVE EXISTING OR RELOCATED UTILITY FACILITIES.
- ANY HAUL ROUTES SELECTED BY THE CONTRACTOR WITHIN THE CITY LIMITS SHALL REQUIRE PRIOR APPROVAL BY THE CITY OF EFFINGHAM ENGINEER.
- DRIVEWAY CENTERLINES ARE PERPENDICULAR TO THE PROPOSED BLOHM AVE. AND VETERANS DR. CENTERLINES UNLESS OTHERWISE SHOWN ON THE PLAN DRAWINGS.
- ALL SALVAGEABLE DRAINAGE ITEMS WHICH ARE NOT INCORPORATED INTO THE WORK SHALL BECOME THE PROPERTY OF THE CITY AND SHALL BE STOCKPILED ON THE JOB SITE AT A LOCATION DESIGNATED BY THE ENGINEER.
- THE TOP-OF-FRAME ELEVATIONS REFERRED TO IN THE DRAINAGE STRUCTURE CALL-OUTS FOR A TYPE 1 FRAME AND LID ARE TAKEN TO THE TOP OF FRAME, WHICH CORRESPONDS TO THE ADJACENT PAVEMENT OR GROUND SURFACE.
- THE TOP-OF-FRAME ELEVATIONS REFERRED TO IN THE DRAINAGE STRUCTURE CALL-OUTS FOR A TYPE 3V FRAME AND GRATE ARE TAKEN TO THE CENTER FRONT EDGE OF THE FRAME WHICH IS PARALLEL TO AND COINCIDENT WITH THE EDGE OF PAVEMENT.
- THE TOP-OF-FRAME ELEVATIONS REFERRED TO IN THE DRAINAGE STRUCTURE CALL-OUTS FOR A TYPE 15 FRAME AND LID ARE TAKEN TO THE ADJACENT TOP OF CURB.
- ABANDONED SEWERS AND OPENINGS CREATED IN DRAINAGE STRUCTURES BY THE REMOVAL OF SEWERS SHALL BE PLUGGED IN ACCORDANCE WITH ARTICLE 550.05 OF THE STANDARD SPECIFICATIONS.
- EXISTING PAVEMENT, SIDEWALKS AND/OR COMBINATION CURB AND GUTTER WHICH ARE TO BE JOINED TO THE PROPOSED WORK SHALL BE SO JOINED THROUGH SAW CUT JUNCTIONS UNLESS EXISTING PAVING WAS TERMINATED IN A BULKHEAD CONSTRUCTION JOINT. JOINTS BETWEEN EXISTING AND PROPOSED PAVEMENT (OR CURB AND GUTTER) SHALL BE OF THE SAME TYPE AS EQUIVALENT JOINTS IN THE PROPOSED PAVEMENT (OR CURB AND GUTTER). DRILLING AND GROUTING TIE BARS OR DOWEL BARS INTO EXISTING PAVEMENT (OR CURB AND GUTTER) SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEM FOR THE ADJACENT PROPOSED PAVING WORK.
- ALL PAVEMENT STUBS SHALL BE A MINIMUM OF ONE FOOT IN WIDTH UNLESS SPECIFICALLY DIMENSIONED OTHERWISE. WHERE THE P.C. CONCRETE PAVEMENT IS LESS THAN THE REQUIRED STUB WIDTH, IT SHALL BE POURED MONOLITHICALLY WITH THE COMBINATION CONCRETE CURB AND GUTTER.
- THE SEEDING RATES FOR CLASS 1 LAWN MIXTURE AS SPECIFIED IN SECTION 250 OF THE STANDARD SPECIFICATIONS SHALL BE DOUBLED FOR THE ENTIRE PROJECT.
- APPLICATION RATES FOR FERTILIZER FOR AREAS TO BE SEEDDED OR SODDED SHALL BE AS FOLLOWS IN ACCORDANCE WITH SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER:
 

	SEEDING	SODDING
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE	60 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT		
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE	60 LBS/ACRE
AGRICULTURAL GROUND LIMESTONE	2 TONS/ACRE	2 TONS/ACRE
- THE EXCAVATION FOR THIS PROJECT IS CLASSIFIED AS EARTH EXCAVATION IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS. THE EARTH EXCAVATION SHALL INCLUDE THE REMOVAL OF EARTH AND UNCLASSIFIED MATERIALS. CONCRETE REMOVAL IS CLASSIFIED AS DRIVEWAY PAVEMENT REMOVAL, SIDEWALK REMOVAL, CURB & GUTTER REMOVAL, OR GUTTER REMOVAL. REMOVAL OF BITUMINOUS OR AGGREGATE MATERIALS SHALL BE MEASURED AND PAID FOR AS "EARTH EXCAVATION" IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.
- EARTHWORK QUANTITIES FOR THE ENTIRE PROJECT:
 

SALVAGEABLE EARTH EXCAVATION = EARTH EXCAVATION (2,985 CU YD) - UNSUITABLE MATERIAL (125 CU YD) = 2,860 CU YD
EMBANKMENT NEEDED = THEORETICAL EMBANKMENT (450 CU YD) x SHRINKAGE FACTOR (1.3) = 585 CU YD
FURNISHED EXCAVATION = EMBANKMENT NEEDED (585 CU YD) - SALVAGEABLE EARTH EXCAVATION (2,860 CU YD) = -2,275 CU YD
- TRENCH BACKFILL IN ACCORDANCE WITH SECTION 208 SHALL BE USED FOR THE STORM SEWER BEYOND STATION 16+48 TO STRUCTURE 22.
- THE STRAW IN MULCH METHOD 2 SHALL BE STABILIZED USING PROCEDURE 2.
- A QUANTITY OF SUPPLEMENTAL WATERING HAS BEEN INCLUDED IN THE PLANS FOR WATERING OF SEEDDED (8 APPLICATIONS OF 178 UNITS) AND SODDED AREAS (5 APPLICATIONS OF 12 UNITS). SUPPLEMENTAL WATERING SHALL BE PERFORMED WHEN DIRECTED BY THE ENGINEER. APPLICATION RATES SHALL BE AS FOLLOWS:
 

SEEDING	SODDING
2 GAL/SQ YD (PAID FOR AS SUPPLEMENTAL WATERING)	1 GAL/SQ YD-INITIAL WATERING BEFORE SOD IS PLACED (INCLUDED IN CONTRACT)
	5 GAL/SQ YD-INITIAL WATERING AFTER SOD IS PLACED (INCLUDED IN CONTRACT)
	3 GAL/SQ YD-7 ADDITIONAL WATERINGS (INCLUDED IN CONTRACT)
	3 GAL/SQ YD-WATERINGS REQUIRED AFTER THE INITIAL WATERINGS AND 5 ADDITIONAL WATERINGS (PAID FOR AS "SUPPLEMENTAL WATERINGS" PER UNITS OF 1000 GALLONS).
- 18" LONG PRE-COATED SMOOTH DOWEL BARS FOR USE IN THE SAWED CONTRACTION JOINTS AND EXPANSION JOINTS AS SHOWN IN STANDARD 420001 SHALL BE 1/2" DIAMETER.
- THE COARSE AGGREGATE IN SUB-BASE GRANULAR MATERIAL, TYPE B SHALL BE GRADATION CA-6 AND CLASS A OR C QUALITY.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BLOHM AVE. & VETERANS DR.	*	EFFINGHAM	28	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* 04-00101-00-PV  
CONTRACT: 95604

GENERAL NOTES /SUMMARY OF QUANTITIES