

PLAN NOTES

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE / SFTY-1B	
SPECIALTY ITEM	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
Δ	20101200	20101200 TREE ROOT PRUNING	EACH	10
	20200100	20200100 EARTH EXCAVATION	CU YD	1349
	20800150	20800150 TRENCH BACKFILL	CU YD	10
	20900110	20900110 POROUS GRANULAR BACKFILL	CU YD	19
Δ	21400100	21400100 GRADING AND SHAPING DITCHES	FOOT	250
	25100125	25100125 MULCH, METHOD 3	ACRE	0.70
	25200110	25200110 SODDING, SALT TOLERANT	SQ YD	3500
	25200200	25200200 SUPPLEMENTAL WATERING	UNIT	10
	28000400	28000400 PERIMETER EROSION BARRIER	FOOT	1000
	31101100	31101100 SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	350
	35101400	35101400 AGGREGATE BASE COURSE, TYPE B	TON	50
	35300100	35300100 PORTLAND CEMENT CONCRETE BASE COURSE 6"	SQ YD	60
	40300200	40300200 BITUMINOUS MATERIALS (PRIME COAT)	TON	1
	40603080	40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	10
	40603310	40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	10
	42001300	42001300 PROTECTIVE COAT	SQ YD	4500
	42300200	42300200 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	145
	42400200	42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	36000
	42400300	42400300 PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	1150
	42400800	42400800 DETECTABLE WARNINGS	SQ FT	610
	44000155	44000155 HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	10
	44000200	44000200 DRIVEWAY PAVEMENT REMOVAL	SQ YD	380
	44000300	44000300 CURB REMOVAL	FOOT	260
	44000600	44000600 SIDEWALK REMOVAL	SQ FT	1700
	54200217	54200217 PIPE CULVERTS, CLASS C, TYPE 1 12"	FOOT	503
	54213867	54213867 STEEL END SECTIONS 12"	EACH	35
Δ	56500600	56500600 DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	3
	60107600	60107600 PIPE UNDERDRAINS 4"	FOOT	365
	60236200	60236200 INLETS, TYPE A, TYPE 8 GRATE	EACH	1
	60240301	60240301 INLETS, TYPE B, TYPE 8 GRATE	EACH	2
	60255500	60255500 MANHOLES TO BE ADJUSTED	EACH	24
	60600095	60600095 CLASS SI CONCRETE (OUTLET)	CU YD	2
	60603800	60603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	600
	66400105	66400105 CHAIN LINK FENCE, 4'	FOOT	207
	67100100	67100100 MOBILIZATION	L SUM	1
	70102620	70102620 TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
	70102635	70102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
	72000100	72000100 SIGN PANEL - TYPE 1	SQ FT	20
	72400500	72400500 RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	14
	72900100	72900100 METAL POST - TYPE A	FOOT	44
*	78000200	78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2000
*	78000400	78000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1806
*	78000600	78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	392
*	78000650	78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	403
*	81018600	81018600 CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	9
Δ	81400115	81400115 HANDHOLE TO BE ADJUSTED	EACH	1
Δ	85000200	85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
*	87301215	87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 2C	FOOT	685
*	87301225	87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	713
*	87502440	87502440 TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
*	87800100	87800100 CONCRETE FOUNDATION, TYPE A	FOOT	4
*	87900200	87900200 DRILL EXISTING HANDHOLE	EACH	1
*	88102717	88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
*	88800100	88800100 PEDESTRIAN PUSH-BUTTON	EACH	4
Δ	Z0004510	Z0004510 HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	10
Δ	Z0013302	Z0013302 SEGMENTAL CONCRETE BLOCK WALL	SQ FT	900
Δ	Z0018900	Z0018900 DRILL AND GROUT DOWEL BARS	EACH	38
Δ	Z0022800	Z0022800 FENCE REMOVAL	FOOT	125
Δ	Z0030850	Z0030850 TEMPORARY INFORMATION SIGNING	SQ FT	100
Δ	Z0033044	Z0033044 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
Δ	Z0048665	Z0048665 RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
Δ	Z0062450	Z0062450 SAWING PAVEMENT (FULL DEPTH)	FOOT	400
Δ	Z0062600	Z0062600 SAWING P.C. CONCRETE PAVEMENT	FOOT	76
Δ	X5015200	X5015200 REMOVE EXISTING CULVERTS	EACH	20
Δ	XX001249	XX001249 ORNAMENTAL FENCE	FOOT	177

Δ = SPECIAL PROVISION PROVIDED

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007, THE DETAILS IN THESE PLANS AND THE CONTRACT DOCUMENTS.
- THE ELEVATIONS SHOWN ON THESE PLANS ARE U.S.G.S. DATUM.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT SOME QUANTITIES ARE GIVEN IN BOTH SUMMARY FORM AND ON THE PLAN SHEETS. CARE SHOULD, THEREFORE, BE TAKEN TO AVOID DUPLICATION OF QUANTITIES.
- THE CONTRACTOR SHALL NOTIFY JULIE (811) FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIALS BLOCKING DITCH LINES, STORM SEWERS, MANHOLES, ETC., SHALL BE REMOVED AT THE END OF EACH DAY. MAINTENANCE OF DRAINAGE WAYS AND STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE CULVERTS.
- EXISTING SUMP PUMPS, FIELD TILES, ETC., DISCHARGING INTO EXISTING STORM SEWERS SHALL BE PROTECTED.
- ALL SOD OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM EXISTING SURFACES BEFORE PLACING AGGREGATE MATERIALS.
- HANDICAP RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS. SIDEWALK SHALL BE 5 INCHES THICK EXCEPT WHERE IT CROSSES A DRIVE, WHERE IT SHALL BE 6 INCHES THICK.
- PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE AND TOP OF CURB AND GUTTER AND P.C.C. SIDEWALK.
- ANY EXISTING DECORATIVE LANDSCAPING WITHIN THE RIGHT-OF-WAY THAT INTERFERES WITH THE WORK, SUCH AS RETAINING WALL TIMBERS, RAILROAD TIES, ORNAMENTAL ROCKS, FENCES, DECORATIVE WALKS, PLANTERS AND BUSHES SHALL BE DISPOSED OF OFF-SITE UNLESS THE PROPERTY OWNER WANTS TO RETAIN THE MATERIAL. DECORATIVE LANDSCAPING REMOVAL/DISPOSAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- AGGREGATE FOR AGGREGATE BASE COURSE AND SUB BASE GRANULAR MATERIAL SHALL BE CA-6, CRUSHED STONE OR GRAVEL.
- THE PAY ITEM FOR DRIVEWAY REMOVAL SHALL INCLUDE BOTH CONCRETE AND HMA DRIVEWAYS. HMA DRIVEWAY PAVEMENT SHALL BE PAID FOR AT THE UNIT PRICE PER SQUARE YARD OF HOT-MIX ASPHALT DRIVEWAY PAVEMENT. MATERIAL THICKNESS FOR HMA DRIVEWAYS SHALL BE 3 INCHES AND 6" FOR PCC DRIVEWAYS.
- SIDEWALK AND CURB REMOVAL SHALL INCLUDE SAW CUTTING WHERE NECESSARY.
- REMOVAL OF EXISTING END SECTIONS AND DELIVERY OF ANY SALVAGED MATERIALS REQUESTED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING CULVERTS.
- PIPE CULVERTS SHALL CONFORM TO SECTION 542 OF THE STANDARD SPECIFICATIONS. MATERIALS SHALL BE CORRUGATED STEEL CULVERT PIPE AND INCLUDE ALL NECESSARY COUPLING RINGS, ETC.
- ADJUSTMENT OF MANHOLES AND VALVE VAULTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTMENT RINGS AND SEALED WITH A BUTYL BASED ROPE GASKET AS INCLUDED IN THE COST OF THE ADJUSTMENT.
- THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING DRIVEWAYS ALONG THE ROUTE. FOR NEW CURB, THE VOID IN FRONT AND BACK WILL BE FILLED WITH CONCRETE BASE COURSE, 6" AFTER THE CURB HAS CURED. PAYMENTS SHALL BE AT THE UNIT PRICE PER SQUARE YARD FOR PORTLAND CEMENT CONCRETE BASE COURSE, 6".
- STORM SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH SECTIONS 550 AND 551 OF THE STANDARD SPECIFICATIONS WITH THE FOLLOWING EXCEPTIONS: BEDDING MATERIALS SHALL BE PLACED FROM A POINT 4 INCHES BELOW THE PIPE TO AT LEAST THE SPRINGLINE OF THE PIPE. PIPE MATERIAL SHALL BE REINFORCED CONCRETE PIPE, ASTM C-76 WITH ASTM C-443 JOINTS.
- EXISTING PUBLIC AND PRIVATE UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM UTILITY COMPANIES, MUNICIPALITIES, AND SURVEYS. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF ALL UTILITIES AND STRUCTURES THAT MAY BE FOUND IN THE VICINITY OF THE CONSTRUCTION AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER SHOWN OR NOT, AND MUST REALIZE THAT THE ACTUAL LOCATIONS AND/OR ELEVATIONS OF THE UTILITIES MAY BE DIFFERENT THAN INDICATED. SHOULD ANY DAMAGES OCCUR DUE TO THE CONTRACTOR'S NEGLIGENCE, REPAIRS SHALL BE MADE BY THE CONTRACTOR AT HIS OWN EXPENSE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OF HIS CONSTRUCTION SCHEDULE AND COORDINATE CONSTRUCTION OPERATIONS WITH THE UTILITY COMPANIES SO THAT RELOCATION OF UTILITY LINES AND STRUCTURES MAY PROCEED IN AN ORDERLY MANNER.
- PIPE UNDERDRAINS ADJACENT TO MASONRY RETAINING WALL SHALL BE INSTALLED AS FOLLOWS:
A.) BACKFILL SHALL CONSIST OF CA-16 AND SHALL BE INCLUDED IN THE PRICE FOR THE UNDERDRAINS.
B.) PIPE MATERIAL SHALL BE PERFORATED PVC, AASHTO M278 OR PERFORATED CORRUGATED PVC WITH A SMOOTH INTERIOR ASTM F949, SIZE AS SHOWN ON THE DRAWINGS.
C.) PIPE JOINTS SHALL BE GASKET OR "O-RING" TYPE.
D.) FABRIC ENVELOPE FOR PIPE UNDERDRAIN SHALL BE PROVIDED AND COMPLY WITH ARTICLE 1080.01A FOR NONWOVEN, NEEDLE PUNCH FABRIC. THE COST OF THE FABRIC ENVELOPE SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT OF PIPE UNDERDRAINS, 4".
- SIDEWALKS SHALL BE CONSTRUCTED ACCORDING TO SECTION 424 OF THE STANDARD SPECIFICATIONS WITH THE FOLLOWING EXCEPTIONS. THE PLANS ARE ILLUSTRATIVE ONLY TO PROVIDE THE CONTRACTOR WITH THE SCOPE AND ESTIMATE OF WORK REQUIRED. FINAL LOCATION OF THE SIDEWALKS SHALL BE STAKED IN THE FIELD AND WILL BE SUBJECT MINOR TO DEVIATION AS DETERMINED BY ENGINEER. NO ADDITIONAL COMPENSATION WILL BE PERMITTED DUE TO MINOR REALIGNMENT OF THE SIDEWALK. EXPANSION JOINTS SHALL BE INSTALLED EVERY 50 FEET WITH PERFORMED JOINT FILLER IN ACCORDANCE WITH SECTION 424 OF THE STANDARD SPECIFICATIONS. EXCAVATION TO SUBGRADE SHALL BE PAID FOR AS EARTH EXCAVATION. AGGREGATE MATERIALS SHALL BE PAID FOR AS SUB-BASE GRANULAR MATERIALS, TYPE B. SIDEWALK SHALL BE PAID FOR AT THE UNIT PRICE PER SQUARE FOOT FOR P.C.C. SIDEWALK, 5", 6".
- ANY EXISTING SUMP PUMP/DOWNSPOUT DRAINS THAT DISCHARGE UNDER THE PROPOSED SIDEWALK SHALL BE CONNECTED AND EXTENDED BEYOND THE SIDEWALK AND HAVE AN OPEN DISCHARGE. PAYMENT SHALL BE AT THE UNIT PRICE PER FOOT OF PIPE UNDERDRAIN, 4".
- CHAIN LINK FENCE TOP BRACE SHALL BE INSTALLED 2" BELOW TOP OF FABRIC. BARBS AT TOP SHALL BE KNUCKLED SALVAGE.
- OUTLETS REQUIRED SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARD 606006-02 BUT SHALL BE MODIFIED FOR A B-6.12 COMBINATION CONCRETE CURB AND GUTTER.

- IF THE ADJACENT HOMEOWNER WISHES TO RETAIN THE SHRUBS FOR TRANSPLANTATION THE CONTRACTOR SHALL REMOVE THE SHRUB, TRIM AND DISPOSE OF THE TOP AND STORE THE ROOT-STOCK ON THE ADJACENT PROPERTY. THIS WORK SHALL BE PAID FOR AT THE CONTRACT PRICE PER UNIT FOR HEDGE REMOVAL ONE UNIT SHALL EQUAL 10 FEET OF HEDGES AS MEASURED ALONG THE CENTER OF THE HEDGE.
- DETECTABLE WARNINGS
 - DOME GEOMETRY
IN ACCORDANCE WITH ADA REGULATIONS FOR DETECTABLE WARNING ON CURB RAMPS: RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9', A HEIGHT OF NOMINAL 0.2', AND A CENTER-TO-CENTER SPACING OF 1.67' MINIMUM, AND 2.35' MAXIMUM.
 - PANEL DIMENSIONS
PANEL DIMENSIONS SHALL BE 24" X 60".
 - MATERIAL
A HOMOGENOUS GLASS AND CARBON REINFORCED COMPOSITE WHICH IS COLORFAST AND UV STABLE. TRUNCATED DOMES ARE FIBERGLASS REINFORCED FOR ENHANCED DURABILITY. THE TACTILE WARNING SURFACE PANEL COLOR IS UNIFORM THROUGHOUT AND DOES NOT RELY ON ANY TYPE OF PAINT COATING TO ACHIEVE COLOR STABILITY. STANDARD COLORS INCLUDE: FEDERAL YELLOW, BRICK RED, CLAY RED, DARK GRAY, BLACK, AND BLUE.
 - INSTALLATION
TACTILE WARNING SURFACE UNITS ARE TO BE USED ON NEW CURB RAMP LOCATIONS. THE TACTILE WARNING SURFACE UNITS CAN BE PRE-FILLED WITH CONCRETE AND SET IN PLACE OR PRESSED INTO PLACE IN THE FRESHLY POURED CONCRETE.
 - PHYSICAL CHARACTERISTICS

PROPERTY	VALUE	TEST METHOD
COMPRESSIVE STRENGTH	28,900 PSI	ASTM D 695
FLEXURAL STRENGTH	29,300 PSI	ASTM D 790
WATER ABSORPTION	.07%	ASTM D 570
SLIP RESISTANCE	1.18 DRY/1.05 WET	ASTM C 1028
FLAME SPREAD INDEX	20	ASTM E 84
SALT SPRAY	NO CHANGE (200 HOURS)	ASTM B 117
CHEMICAL STAIN TESTING	NO DETERIORATION	ASTM 1308
ABRASION RESISTANCE	549	ASTM C 501
ACCELERATED WEATHERING	DELTA E < 5.0 (2,000 HOURS)	ASTM G 155
TENSILE STRENGTH	11,600 PSI	ASTM D 638
ADHESION TO CONCRETE (20°-180°)	NO DELAMINATION OR DEGRADATION	ASTM C 903
FREEZE/THAW/HEAT	NO DISINTEGRATION	ASTM C 1026

- MANUFACTURER
DETECTABLE WARNINGS SHALL BE MANUFACTURED BY ADA SOLUTIONS, INC., OR EQUAL.
- MEASUREMENT AND PAYMENT
PAYMENT SHALL BE AT THE UNIT PRICE PER SQUARE FOOT OF DETECTABLE WARNINGS.
- THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- SIDEWALK ALIGNMENT CHANGES SHOWN ON THE PLAN VIEW TO AVOID UTILITY CONFLICTS SHALL BE CONSTRUCTED USING THE PROPER HORIZONTAL CURVATURE FOR ADA USAGE. HORIZONTAL CURVES SHALL BE STAKED BY THE ENGINEER AT THE TIME OF CONSTRUCTION.

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-01	METAL END SECTIONS FOR PIPE CULVERTS
602301-03	INLET, TYPE A
602306-03	INLET, TYPE B
604001-03	FRAME AND LIDS, TYPE 1
604036-02	GRATE, TYPE B
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-02	OUTLET FOR CONCRETE CURB AND GUTTER TYPE B-15.60 (B-6.24)
664001-02	CHAIN LINK FENCE
701001-02	OFF ROAD OPERATIONS-2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-03	OFF ROAD OPERATIONS-2L, 2W, MORE THAN 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701701-07	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
857001-01	STANDARD PHASE, DESIGNATION DIAGRAM AND PHASE SEQUENCES
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS