

 $\bigcirc$ 

0

#### INDEX OF SHEETS

SHEET No.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	MWRD GENERAL NOTES
4-10	SUMMARY OF QUANTITIES
11-14	TYPICAL CROSS SECTIONS
15	EARTHWORK SCHEDULE
16	ALIGNMENT, TIES AND BENCHMARKS
17-19	EXISTING CONDITIONS AND REMOVAL PLANS
20-24	ROADWAY PLAN AND PROFILE
25-27	SOIL EROSION AND SEDIMENT CONTROL PLANS
28	SOIL EROSION AND SEDIMENT CONTROL DETAILS
29-33	DRAINAGE PLAN AND PROFILE
34	RIGHT-OF-WAY PLAN
35-36	INTERSECTION DETAILS
37-41	ADA DETAILS
42-44	PAVEMENT MARKING PLANS
45	SIGNING PLANS
46-48	LANDSCAPING PLANS
49-62	TRAFFIC SIGNAL PLANS AND DETAILS
63-71	IDOT DISTRICT 1 STANDARDS
72-85	CROSS SECTIONS

## IDOT STANDARDS:

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
424026-03	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
442201-03	
<u>601001-05</u>	
602001-03	
602301 <u>02</u>	
502301 0 <del>4</del> 502401-06	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
502402-02	PRECAST MANHOLE TYPE A 5' (152 m) DIAMETER
502402-02 502406-10	PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER
602601-06	DRECAST REINFORCED CONCRETE FLAT SLAB TOP
502701-02	MANHOLF STEPS
S04001-02	ERAME AND LIDS TYPE 1
504086-03	FRAME AND CRAFE TYPE 23
604091-03	FRAME AND SCATE TYPE 24
606001-07	CONCRETE CURR TYPE R AND COMPINATION CONCRETE CURR & CUTTER
701006 05	CONCILE CONDITIONS OF A CONTRACTION CONCILETE CONDITIONS OF PAVENENT
701006-05	OFF-RD OPERATIONS, 2L, 2W, 13 (4.3m) TO 24 (600m) FROM EDGE OF PAVEMENT
/01011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15 (4.5 m) TO 24 (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311–03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS – DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAIL
720006-04	SIGN PANEL ERECTION DETAIL
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
780001-05	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
314006-02	DOUBLE HANDHOLES
357001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
362001-01	UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
377001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	
886006 01	

DISTRO	CIT 1 STANDARDS:
BD-03	OUTLET FOR CONCRETE CURB AND GUTTER
BD-07	STORM SEWER CONNECTION TO EXISTING SEWER
BC-32	BUTT JOINTS AND HMA TAPER
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGN
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

## GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016. THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2020, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL 13. APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE 2. SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, 3. DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES.
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. 5.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK. 6
- 4. IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR 7 UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF ION-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL IE NO NPDES PERMIT. q OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE ENGINEER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.
- 10. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT Kalpana.Kannan-Hosaduraa@illinois.gov A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 11. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- 12. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. THE TOP OF PIPE UNDERDRAINS SHALL BE PLACED A MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER.
- 13. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT DON CHIARUGI, AREA TRAFFIC FIELD ENGINEER, AT Don.Chiaruai@illinois.aov.
- 14. STANDARD LANE CLOSURES, IDOT STANDARD 701602 AND 701606, SHALL BE USED FOR INSTALLATION OF MAIN LANE STORM SEWER AND EXCAVATION OF ADDITIONAL LANE.

### UTILITY NOTES

- UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS, FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED. ALL SEWER SHALL BE NSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
- MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF 2. STRUCTURES WILL NOT BE ALLOWED.
- SANITARY SERVICE CONNECTIONS TO NEW SEWERS SHALL BE MADE WITH WYE BRANCHES. WYE BRANCHES SHALL BE .3 FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TEE BRANCHES ARE NOT ALLOWED.
- CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
- STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS 6. DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.
- ALL WATER MAIN SHALL HAVE MECHANICAL RESTRAINED TYPE JOINTS AT ALL CONNECTIONS AND FITTINGS. IN ADDITION 7 ALL HARDWARE SHALL BE STAINLESS STEEL.
- THRUST BLOCKING SHALL BE PROVIDED ON WATER MAIN AT ALL BENDS, TEES, ELBOWS, ETC. INDIVIDUAL INSPECTION FOR ALL THRUST BLOCKING IS REQUIRED. THRUST BLOCKING SHALL BE POURED IN PLACE CONCRETE. PRECAST BLOCKS MAY BE USED AS APPROVED BY THE ENGINEER IN THE FIELD
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER. ALL DOWNSPOUTS, SIDE YARD DRAINS, AND OUTSIDE 9. DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. FOOTING DRAINS SHALL FIRST DRAIN TO A SUMP PIT
- 10. BUILDING STORM SEWER SERVICE PIPE SHALL NOT BE LESS THAN THE DIAMETER OF THE PLUMBING PIPE FROM THE BUILDING, BUT NOT LESS THAN 6 INCHES. THE PIPE SHALL HAVE A MINIMUM SLOPE OF 1/8-INCH PER FOOT, BUT NOT MORE THAN 1/2-INCH PER FOOT. CHANGES OF DIRECTION OF SERVICE PIPE SHALL BE MADE WITH COMBINATIONS OF 22-1/2 DEGREE BENDS WHEREVER PRACTICABLE, WITH NOT LESS THAN 2 FEET OF STRAIGHT PIPE BETWEEN SUCH BENDS. RIGHT ANGLE (90 DEGREE) BENDS WILL NOT BE ALLOWED. WHEN A SERVICE LINE-EXCEEDS 100 FEET IN LENGTH, A CLEANOUT SHALL BE PROVIDED AT A LOCATION DESIGNATED BY THE ENGINEER. THE CLEANOUT SHALL BE PROPERLY SEALED, WITH THE TOP OF THE PLUGGED RISER FLUSH WITH FINISHED GRADE.
- BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07 (b, c) OF THE SSRBC WILL NOT RE ALLOWED

			NOT BE ALLOWED.										
FILE NAME = 4816.200-DT1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		INDEX OF SH	FETS GENERAL NOT	ES AND S	TATE STANDARDS	쯡	SECTION	COUNTY	TOTAL	SHEET
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS				330	14-00220-00-TL	соок	85	2	
	PLOT SCALE = $1''$ = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE ST - MANNHEIM RD AND FOREST AVENUE				CONTRACT #	# 61F	- 86		
	PLOT DATE = 11/4/2019 5:52 PM	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	PROJECT		-

# UTILITY NOTES CONT.

VALVES ON EXISTING WATER MAIN LINES SHALL BE OPERATED BY THE CITY PERSONNEL ONLY. THE ENGINEER AND THE CITY WATER DEPARTMENT SHALL BE NOTIFIED 48 HOURS IN ADVANCE WHEN WATER MAIN ADJUSTMENTS WILL BE MADE SO THAT LOCAL RESIDENTS MAY BE NOTIFIED. THE CITY WATER DEPARTMENT SHALL BE PRESENT FOR INSPECTION OF WATER MAIN ADJUSTMENTS

# PROJECT SPECIFIC NOTES

2.

3.

- 11.
- 14.

12. PRIOR TO WATER MAIN INSTALLATION AS SHOWN ON THE PLANS OR AS NEEDED OTHERWISE, THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE SEQUENCE OF OPERATIONS TO THE ENGINEER FOR APPROVAL. THE ENGINEER WILL COORDINATE WITH THE CITY OF DES PLAINES DURING THE REVIEW AND APPROVAL PROCESS.

FOR WATER MAIN SHUTOFES. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE. THE CITY WILL PROVIDE NOTIFICATION FORMS AND DETERMINE THE LIMITS OF THE AFFECTED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTION OF THE NOTIFICATION TO ALL AFFECTED RESIDENTS A MINIMUM OF 24 HOURS IN ADVANCE OF THE SHUTOFF.

THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE, SUFFICIENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY DETENTION VOLUMES, RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL WATER MAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.

ALL PUBLIC WATER MAINS AND SANITARY SEWER MAINS MUST BE ACCEPTED BY THE CITY OF DES PLAINES.

THE SEWER AND WATER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE CITY OF DES PLAINES BEFORE WORK IS STARTED.

CONTRACTOR SHALL NOTIFY THE CITY OF DES PLAINES (847-391-5390) AND THE PROJECT ENGINEER (847-478-9700) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.

5. ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.

7. STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED

PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.

ALL CONNECTIONS TO EXISTING STORM MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.

10. ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.

3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 . 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FOURTY FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.

12. UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.

13. ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY

SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.

A. <u>REFERENCED SPECIFICATIONS</u> 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT SAN TABLE ON ON THE PLANE.     SUCPT SAN MODIFED HEERIN ON ON THE PLANE.     SUCPT SAN MODIFED HEERING ON ON THE PLANE.     SUCPT SAN MARKEN AND CONSTRUCTION.     SUCPT SAN MARKEN AND PLANE AND CONSTRUCTION AND PLANE SAN MARKEN AND PLANE.     SUCPT SAN MARKEN AND PLANE AND CONSTRUCTION AND PLANE SAN MARKEN AND PLANE.     SUCPT SAN MARKEN AND PLANE AND PLANE AND PLANE AND MARKEN AND PLANE.     SUCPT SAN MARKEN AND PLANE AND PLANE AND PLANE AND MARKEN AND PLANE AND MARKEN AND PLANE.     SUCPT SAN MARKEN AND PLANE AND PLANE AND PLANE AND MARKEN AND MARKEN AND PLANE AND MARKEN AND MARKEN AND MARKEN AND MARKEN AND MARKEN AND PLANE AND MARKEN AND PLANE AND MARKEN A	PIPE MATERIAL           VITRIFIED CLAY PIPE           REINFORCED CONCRETE SEWER PIPE           CAST IRON SOIL PIPE           DUCTILE IRON PIPE           POLVVINYL CHLORIDE (PVC) PIPE           6-INCH TO 15-INCH DIAMETER SDR 26           18-INCH TO 27-INCH DIAMETER F/DY=46           HIGH DENSITY POLYETHYLENE (HDPE)           WATER MAIN QUALITY PVC           4-INCH TO 36-INCH           4-INCH TO 36-INCH           4-INCH TO 38-INCH           14-INCH TO 48-INCH           THE FOLLOWING MATERIALS ARE ALLOWE           APPROVAL PRIOR TO PERMIT ISSUANCE. //           THE FOLLOWING MATERIALS ARE ALLOWE           APPROVAL PRIOR TO PERMIT ISSUANCE. //           THE FOLLOWING MATERIALS ARE ALLOWE           APPROVAL PRIOR TO PERMIT ISSUANCE. //           THE PIPE MATERIAL           BOLYPROPYLENE (PP) PIPE           12-INCH TO 24-INCH DOUBLE WALL           30-INCH TO 60-INCH TRIPLE WALL           8. ALL SANITARY SEWER CONSTRUCTION OF REQUIRES STONE BEDDING WITH STONE REQUIRES STONE BEDDING WITH STONE NEQUIRES STONE BEDDING WITH STONE NEQUIRES STONE BEDDING WITH STONE OF DISSIMILAR PIPE MATERIALS.           10. ALL MANHOLES SHALL BE PROVIDED W           20. NON-SHEAR FLEXIBLE-TYPE COUPLINGS OF DISSIMILAR PIPE MATERIALS.           10. ALL MANHOLES SHALL BE ROOVIDED M           CONSTRUCTED WI	PIPE SPECIFICATIONS ASTM C-700 ASTM C-700 ASTM C-700 ASTM C-76 ASTM A-74 ANSI A21.51 ASTM D-3034 ASTM F-679 ASTM D-3350 ASTM D-3350 ASTM D-3350 ASTM D-3035 ASTM C-300 ASTM D-3035 ASTM C-300 ASTM D-2241 AWWA C900 AWWA C905 D ON A QUALIFIED BASIS A SPECIAL CONDITION WII SEWER CONSTRUCTION OF PIPE SPECIFICATIONS PIPE SPECIFICATIONS ASTM F-2764 ASTM F-2764 ASTM F-2764 ASTM F-2764 ASTM F-2764 CAND STORM SEWER COMS EV & TO 1" IN SIZE, WIT SEWER PIPE, BUT NOT LE ALL BE CA-7, CA-11 OR CA ING PVC. SHALL BE USED IN THE C ASTM F-2764 ASTM F-2764 ASTM F-2764 CHILL BOLTED, WATERTIGH CKHOLE AND WATERTIGH SEWER MAIN BY MEANS O' FOLLOWING METHODS SH MIN <del>W MORENT</del> CONS SEWER PIPE, BUT NOT LE CLAL SEPARATION. IF EIT INTAINED UNLESS: THE TICAL SEPARATION, IF EIT AD STANCE OF 10 FET DE CHILL SIN COMBINE OW WATER MAIN STANDAR UTH THE ENDS SEALED OF 10 FET ED AT THE OPPOSITE SID ICAL SEPARATION, IF ALL DISTANCE OF 10 FET ED AT THE OPPOSITE SID ICAL SEPARATION, IF ALL DISTANCE OF 10 FET SEVER PIPE, BANDARATION, IF ALL DISTANCE OF 10 FET ED AT THE OPPOSITE SID ICAL SEPARATION, IF ALL DISTANCE OF 10 FET ED AT THE COPPOSITE SID ICAL SEPARATION, IF ALL DISTANCE OF 10 FET FILS, AND SHALL BE CAST MANHOLES IN COMBINE ORM TO ASTM C-923 FOR DE GROOVE TONGUE AND MANHOLES IN COMBINE ORM TO ASTM C-923 FOR DE GROOVE TONGUE AND MANHOLES IN COMBINE ORM TO ASTM C-923 FOR DE GROOVE TONGUE AND MANHOLES IN COMBINE ORM TO ASTM C-923 FOR DE GROOVE TONGUE AND MANHOLES IN COMBINE ORM TO ASTM C-923 FOR DE GROOVE TONGUE AND MANHOLES IN COMBINE ORM TO ASTM C-923 FOR DE GROOVE TONGUE AND MANHOLES IN COMBINE ORM TO ASTM C-923 FOR DE GROOVE TONGUE AND MANHOLES IN COMBINE ORM TO ASTM C-923 FOR DE GROOVE TONGUE AND MANHOLES IN COMBINE ORM TO ASTM C-923 FOR DE GROOVE TONGUE AND MANHOLES IN COMBINE ON TONGUE AND STANDAR WITH THE PROJECT AREA SU	JOINT SPECIFICATIONS ASTM C-425         ASTM C-425         ASTM C-443         ASTM C-564         ANSI A21.11         ASTM D-3212         ASTM D-3212         ASTM D-3212         ASTM D-3212         ASTM D-3212         ASTM D-3212, F-477 (GASKETED)         ASTM D-3139         SUBJECT TO DISTRICT REVIEW AND L BE ADDED TO THE PERMIT WHEN & A CONNECTION IS MADE.         JOINT SPECIFICATIONS         D-3212, F-477         D3212, F-477         D3212, F-477         D3212, F-477         ONNECTION OF SEWER PIPES         T COVERS. SANITARY LIDS SHALL BE         T COVERS. SANITARY CORE NOR MORE         13 AND SHALL BE EXTENDED AT LEAST 12"         ONNECTION OF SEWER PIPES         T COVERS. SANITARY CONSINCE OR SIMILAR)         ET COVERS. SANITARY COMBINED SCHILAR)         ET COVERS. SANITARY COMBINED SCHILAR)         ET OF ONE BELL) AND REPLACE WITH         SIRED LENGTH OF PIPE FOR INSERTION         YHEWEN TAWERMAIN SHALL BE 18 INCHES.	<ul> <li>E. EROSION AND SEDIMENT CONTROL</li> <li>THE CONTRACTOR SHALL INSTAL. THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PAAY.</li> <li>EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.</li> <li>ALL DESION CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INACCORDINCE WITH THE ILLINGS URBAN MANUAL.</li> <li>A. COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.</li> <li>INSPECTIONS AND DOCUMENTATION SHALL BE PEFORMED, AT A MINIMUM.</li> <li>ALOPY OF THE APPROVED EROSION AND SEDIMENT CONTROL MEAN SHALLE MAINTAINED ON THE SITE AT ALL TIMES.</li> <li>INSPECTIONS AND DOCUMENTATION SHALL BE PEFORMED, AT A MINIMUM.</li> <li>BLOND ONPLETION OF INTIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOLD DISTURBANCE.</li> <li>DI ONCE UNIT SVERIE (1) CLEURAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GRATER THAW 3 SIDEMENT CONTROL MEASURES, PRIOR TO ANY SOLD ENGLISHMENT END ALBOR DAYS AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOLD ENGLISHMENT END ENGLISH AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOLD ENGLISHMENT END SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOLD ENGLISHMENT END SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOLD ENGLISHMENT END SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOLD AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOLD AND SEDIMENT CONTROL MEASURES, PRIOR TO ANNIAL SEDIMENT CONTROL MEASURES, PRIOR THAN AND AND SEDIMENT CONTROL THAN AND ALL SECONSTRUCTION ACTIVITIES.</li> <li>A STABLIZZED MAT OF CRUSHED STONE MEETING THE STANLARD AND SEDIMENT CONTROL MEASURES.</li> <li>A STABLIZZED MAT OF CRUSHES SOLD AND SEDIMENT CONTROL MEASURES.</li> <li>A STABLIZZED MAT OF CRUSHES SOLD AND SEDIMENT CONTROL MEASURES.</li> <li>A STABLIZZED MAT OF CRUSHES SOLD AND SEDIMENT CONTROL MEASURES.</li> <li>A STABLIZZED MAT OF CRUSHES SOLD AND SEDIMENT CONTRO</li></ul>
<ol> <li>DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.</li> <li>ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).</li> <li>ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.</li> <li>ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.</li> <li>ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:</li> </ol>	<ol> <li>ALL SANITARY MANHOLES, (AND STOR PRECAST "RUBBER BOOTS" THAT CONF SECTIONS SHALL CONSIST OF MODIFIF IG. ALL ABANDONED SANITARY SEWERS S NON-SHRINK CONCRETE OR MORTAR F IT. EXCEPT FOR FOUNDATION/FOOTING D ASSOCIATED WITH VOLUME CONTROL PIPES ARE NOT ALLOWED TO BE CONN SEWERS, OR STORM SEWERS TRIBUTA CONSTRUCTION OF NEW FACILITIES O PREFORATED PIPES ENCOUNTERED WI SHALL NOT BE CONNECTED TO COMBIN TO COMBINED SEWERS.</li> <li>A BACKFLOW PREVENTER IS REQUIRED REQUIRED BACKFLOW PREVENTERS SHOWNER TO ENSURE PROPER OPERATION TO COMBINED SEWERS.</li> <li>A BACKFLOW PREVENTER IS REQUIRED REQUIRED BACKFLOW PREVENTERS SHOWNER TO ENSURE PROPER OPERATION TO COMBINED SEWERS, TH SEWAGE TAKES PLACE WITHIN 48 HOL</li> </ol>	M MANHOLES IN COMBINE ORM TO ASTM C-923 FOR ED GROOVE TONGUE AND HALL BE PLUGGED AT BOT 'UG. RACILITIES, DRAIN TILES/ ECTED TO OR TRIBUTARY RY TO COMBINED SEVERS F THIS TYPE IS PROHIBIT THIN THE PROJECT AREA VED SEWERS, SANITARY S OF FOR ALL DETENTION BAS IALL BE INSPECTED AND E JN, AND ANY NECESSARY I TO FA SEVER SURCHARG E PERMITTEE SHALL ENSI IRS OF THE STORM EVENT	D SEWER AREASI, SHALL HAVE ALL PIPE CONNECTIONS. PRECAST RUBBER GASKET TYPE JOINTS. H ENDS WITH AT LEAST 2 FEET LONG TECT BUILDINGS, OR PERFORATED PIPES FIELD TILES/UNDERDRAINS/PERFORATED TO COMBINED SEWERS, SANITARY SIN COMBINED SEWER AREAS. ED; AND ALL EXISTING DRAIN TILES AND SHALL BE PLUGGED OR REMOYED, AND EWERS, OR STORM SEWERS TRIBUTARY SINS TRIBUTARY TO COMBINED SEWERS. KERCISED ANNUALLY BY THE PROPERTY AAINTENANCES SHALL BE PERFORMED TO IS INTO PEN DETNETION BASIN JRE THAT CLEAN UP AND WASH OUT OF	<ul> <li>PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.</li> <li>21. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.</li> <li>22. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.</li> <li>23. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.</li> <li>24. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.</li> </ul>
A CONTRACTOR OF		TECHN	ICAL GUIDAN	CE MANUAL

# MWRD GENERAL NOTES

FILE NAME = 4816.200-DT1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -				
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS			
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION			
	PLOT DATE = 11/4/2019 5:52 PM	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.

30° # STORM SEVER (OTT) 22° # STORM SEVER COMINCE STRUCTURE 22° # STORM SEVER PROJECT CONTROL STRUCTURE PROJECT S MWR S						
			Ø7	7/12/2016	\$	
			STD. PA	DWG. NO GE NO. 1	.18 9	
LNOTES	FAP. RTE	SECTION	о_т/		TOTAL SHEETS	SHEET NO.
STA TO STA			IOIS FED. AI	CONTRACT :	#: 61E	86

SUMMARY OF QUANTITIES					
		T	T		
	CODE NO.	ITEM	UNIT QU	URBAN 0004	
_	* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	28 28	
-	* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	66 66	
	20100210				
	20101000	TEMPORARY FENCE	FOOT 2	,050 2,050	
	* 20101200		EACH	20 20	
	20200100	EARTH EXCAVATION	CU YD 3	,200 3,200	
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CUYD	200 200	
	20800150			525 1 525	
	2000130			,020 1,020	
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	200 200	
-	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD 1	,400 1,400	
	21301072	EXPLORATION TRENCH 72" DEPTH	FOOT	30 30	
	LIGOTOTE				
	* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18 18	
	* 25000600			18 18	
+	* 25200110	SODDING, SALT TOLERANT	SQ YD 1	,400 1,400	
_	* 25200200		UNIT	50 50.0	
_	28000250		ROUND	25 25	
	20000230		FOND	20 20	
	28000510	INLET FILTERS	EACH	34 34	
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CUYD	200 200	
+	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD 1	,650 1.650	
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD 2	,440 2,440	
_			·		
	35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	500 800	
	35501331	HOT-MIX ASPHALT BASE COURSE, 11 3/4"	SQ YD 1	,650 1,650	
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND 7	,100 7,100	
_	4000000-			100 100	
	40600982		SQ YD		
	40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	460 460	

#### SP - SPECIAL PROVISION

\* SPECIALTY ITEM

FILE NAME = 4816.200-DT1.dwg	USER NAME = MARK COBB PLOT SCALE = 1" = .1667'	DESIGNED - MGFC DRAWN - MGFC CHECKED - KLB	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LEE ST	SUMMARY OF C <b>MANNHEIM RD</b> A	)UA
	PLOT DATE = 11/2/2019 9:30 AM	DATE -	REVISED -		SCALE NONE	SHEET NO. 1 OF 6 SHEETS	1

 FAP	· · · · · · · · · · · · · · · · · · ·		
		 0010 001	TOTAL SH

		SUMMARY OF QUANTITIES		TYPE CODE
	CODE NO.	ітем		URBAN 000
	40604062	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70	TON 1,060	1,060
+	42001300	PROTECTIVE COAT	SQ YD 850	850
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT 17,500	17,500
	42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT 4,700	4,700
	42400800	DETECTABLE WARNINGS	SQ FT 530	530
+	44000100	PAVEMENT REMOVAL	SQ YD 700	700
	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD 8,300	8,300
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD 1,900	1,900
_	44000300	CURB REMOVAL	FOOT 590	590
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT 3,970	3,970
-	44000600	SIDEWALK REMOVAL	SQ FT 13,730	13,730
+-	44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD 340	340
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT 250	250
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT 821	821
	550A0410	ISTORM SEWERS, CLASS A, TYPE 2 24"	F001 1,110	1,110
	55100500	STORM SEWER REMOVAL 12"	FOOT 200	200
	56100020	DUCTILE IRON WATER MAIN TEE, 8"X8"	EACH 1	1
-	56103100		FOOT 40	40
_	56300300	ADJUSTING WATER SERVICE LINES	FOOT 100	100
,	56400400	FIRE HYDRANTS TO BE RELOCATED	EACH 1	1
	59300100	CON ROLLED LOW-STRENGTH MATERIAL	CU YD 845	845
	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT 1,860	1,860
	60201340	CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 24 FRAME AND GRATE	EACH 2	2
	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH 1	1
+				· · · ·

FILE NAME = 4816.200-DT1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			SUMMARY OF O
		DRAWN - MGFC	Revised -	STATE OF ILLINOIS		
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE SI	- MANNHEIM RU A
	PLOT DATE = 11/2/2019 9:31 AM	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS

	LEE	ST -	SUMMA	RY OF	S ST AVEN	JE	FAP. 330	SECTION 14-00220-00	COUNTY COOK	TOTAL SHETS 85
						•				
						•				
						·				
4										

		SUMMARY OF QUANTITIES		
	CODE NO.	ITEM	UNIT TOTAL QUANTITY	URBAN 000
	60219530	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH 6	6
	60219540	MANHOLES, TYPE A, 4-DIAMETER, TYPE 24 FRAME AND GRATE	EACH 4	4
	60222240	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH 10	10
	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH 1	1
	60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH 4	4
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH 8	8
	60255500	MANHOLES TO BE ADJUSTED	EACH 8	8
	60255700	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH 1	1
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH 7	7
	60266600	VALVE BOXES TO BE ADJUSTED	EACH 2	2
	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH 9	9
n.	60500040	REMOVING MANHOLES	EACH 3	3
	60500050	REMOVING CATCH BASINS	EACH 1	1
-	60500060	REMOVING INLETS	EACH 7	7
	60600605	CONCRETE CURB, TYPE B	FOOT 80	80
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT 1,305	1,305
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT 2,500	2,500
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD 735	735
*	66900530	SOIL DISPOSAL ANALYSIS	EACH 5	5
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM 1	1
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM 1	1
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DAY 5	5

SP	- SPECIAL	PROVISION	

FILE NAME = 4816.200-DT1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			SUMMARY OF (	2014
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS			
	PLOT SCALE = $1^* = .1667'$	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE SI		AINL
	PLOT DATE = 11/2/2019 9:33 AM	DATE -	REVISED -		SCALE NONE	SHEET NO. 1 OF 6 SHEETS	

FAP. RTE 330	SECTION 14-00220-00-TL	COUNTY COOK CONTRACT	TOTAL SHETS #85 561	5-HE 2006
FAP	SECTION	COUNTY	TOTAL	5-HEE
				•
				•
				•
				•
				•
				•
				•

		SUMMARY OF QUANTITIES			TYPE COL
	CODE NO.	ІТЕМ	UNIT	TOTAL QUANTITY	URBAN 0
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
	67100100	MOBILIZATION	LSUM	1	1
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1
	70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	LSUM	1	1
	70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	LSUM	1	1
	70102625	TRAFFIC CONTROL AND PROTECTION STANDARD 701606	1 SUM	1	1
	704000005				,
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
_	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	100	100
-	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	60
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	557	557
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	186	186
*	72000100	SIGN PANEL - TYPE 1	SQ FT	87	87
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	17	17
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	21	21
*	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	10	10
¥.	72900100		FOOT	99	99
۴ <sup>1</sup>	72000100			250	250
*	10000100		SUFI	200	∠ວປ
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5,100	5,100
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	650	650
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	775	775
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	125	125
*	81028200	UNDERGROUND CONDUIT, GALVANZED STEEL, 2" DA.	FOOT	1,871	1,871
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	136	136
*	81028240	UNDERGROUND CONDUIT, GALVANZED STEEL, 4" DIA.	FOOT	409	409

FILE NAME = 4815.200-DT1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			SUMMARY OF OUA
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS		
	PLOT SCALE = 1" = .1667"	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE S	I - MANNHEIM RU AND
	PLOT DATE = 10/1/2019 10:55 AM	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS ST

TA. TO STA.	l		ILLINO	IS FED. AI	PROJECT		
FOREST AVENUE	330	14	00220-00-	- 1L	COOK CONTRAC	85 T#: 61	E86
NTITIES	RTE 770		SECTION		COUNTY	SHEETS	NO.
	FAD					TOTAL	SURT
		•				,	

		SUMMARY OF QUANTITIES			TYPE C
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN
*	81400100	HANDHOLE	EACH	6	6
			5400		
*	81400200		EACH	4	4
*	81400300	DOUBLE HANDHOLE	EACH	2	2
*	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	1	1
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	2
*	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1	1
*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 141C	FOOT	2,300	2,300
*	97904045		5007	1.017	4.015
<u>^</u>	0/301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 20	F001	1,217	1,217
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,595	1,595
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,194	1,194
*	97301255		FOOT	1 457	1.457
	0/001200		1001	1,01	1,107
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,546	1,546
×	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	F001	119	119
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	595	595
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4	4
*	87700100		EACH	1	1
	87700190	STEEL WASTARW ASSEMBLT AND FOLE, 30 FT.	EACH		· · · · · · · · · · · · · · · · · · ·
*	87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	1
*	87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1	1
*	87700250	STEEL MAST ARM ASSEMBLY AND POLE 42 FT	FACH	1	. 1
					,
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16	16
			-		
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	46	46
*	87900200	DRILL EXISTING HANDHOLE	EACH	2	2
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	6

FILE NAME = 4816.200-DT1.dwg	USER NAME = MARK COBB PLOT SCALE = 1° = .1667'	DESIGNED - MGFC DRAWN - MGFC CHECKED - KLB	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LEE ST	SUMMARY OF - Mannheim Rd	QUAN AND
	PLOT DATE = 10/1/2019 10:56 AM	DATE -	REVISED		SCALE NONE	SHEET NO. 1 OF 6 SHEET	S STA

A TO STA		ILLINOIS FED. AI	PROJECT		
FOREST AVENUE	330	14-00220-00-TL	COOK CONTRACT	85 #: 61E	<b>8</b> 86
NTITIES	FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
·					

			SUMMARY OF QUANTITIES			TYPE CODE
		CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN 000
	*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4	4
_	*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4	4
	*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	8
	*	88200310	TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTIC	EACH	10	10
	*	88500100		EACH	8	8
	*	88600100	DETECTOR LOOP, TYPE I	FOOT	710	710
	*	88700200	LIGHT DETECTOR	EACH	2	2
	*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	1
	*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8	8
	*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,796	2,796
_	*	89502376	REBUILD EXISTING HANDHOLE	EACH	3	3
	*	89502380	REMOVE EXISTING HANDHOLE	EACH	2	2
			· · · · ·			
	*	A2012220	TREE, AESCULUS X CARNEA FORT MCNAIR (FORT MCNAIR RED HORSECHESTNUT), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	4	4
	*	B2006320	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	9	9
P	*	K0036120	MULCH PLACEMENT 4"	SQ YD	50	50
P	*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	306	306
P	*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	1,000	1,000
Ρ	*	X0325938	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	LSUM	1	1
P	*	X0326657	RELOCATE SIGN, SPECIAL	EACH	3	3
	*	X1200016	SANITARY SERVICE REPLACEMENT	EACH	10	10
P	*	X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1	1
P	*	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1	1
P		X2010510	CLEARING AND GRUBBING	LSUM	1	1
P		X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4
		× 4000000		FACU	42	13

FILE NAME = 4816.200-DT1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC DRAWN - MGFC CHECKED - KLB	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LEE ST	SUMMARY OF - MANNHEIM RD
	PLOT DATE = 10/1/2019 10:57 AM	DATE -	REVISED -		SCALE NONE	SHEET NO. 1 OF 6 SHEET

UANTITIES ND FOREST AVENUE	QUANTITIES AND FOREST AVENUE	FAP. RTE 330 1	SECTION 4-00220-00-TL	COUNTY COOK CONTRACT	TOTAL SHEETS 85 #: 616	SHEET NO. 9
	NIANTITICO	FAP.	SECTION	COLINITY	TOTAL	SHEET
			•			

	SUMMARY OF QUANTITIES							
		CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN 0004		
SP	*	X5610708	WATER MAIN REMOVAL, 8"	FOOT	40	40		
SP	*	X5630708	CONNECTION TO EXISTING WATER MAIN 8"	EACH	1	1		
SP		X6026622	VALVE VAULTS TO BE REMOVED	EACH	1	1		
SP	*	X8440110	RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE	EACH	1	1		
SP	*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1		
SP	*	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,300	2,300		
SP		Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SQ YD	350	350		
SP		Z0004538	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"	SQ YD	800	. 800		
		Z0013798		LSUM	1	1		
SP		Z0030850	TEMPORARY INFORMATION SIGNING	SQFT	210	210		
SP	*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2	2		
SP		Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	119	119		
SP		Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	172	172		
SP		Z0056672	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 24"	FOOT	54	54		
	**	Z0076600	TRAINEES	HOUR	500	500		
	**	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		
SP		XX003919	FLAGPOLE RELOCATION	LSUM	1	1		
SP		XX008553	RETAINING WALL, SPECIAL	FOOT	110	110		

CD.	ODECIAL	DBOM/ICION	
- SP -	SPECIAL	PROVISION	

FILE NAME = 4816.200-DT1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			SUMMARY OF	
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS			
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE S	I - MANNHEIM RU	ANU
	PLOT DATE = 11/2/2019 9:36 AM	DATE -	REVISED -		SCALE NONE	SHEET NO. 1 OF 6 SHEETS	5

A TO STA		ILLINOIS FED. AI	CONTRACT #: 61E86
	FAP. RTE 330	SECTION	COUNTY TOTAL SHEET SHEETS NO. COOK 85 IO
		1	
		ι.	



# CROSS SECTION LEGEND

(1) EXISTING COMBINATION CURB & GUTTER TYPE B6.24 (2) EXISTING COMBINATION CURB & GUTTER TYPE M4.18 5 EXISTING HOT-MIX ASPHALT SURFACE COURSE (6) EXISTING HOT-MIX ASPHALT BINDER COURSE (8) EXISTING HOT-MIX DRIVEWAY PAVEMENT (1) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, (1.5") (1) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, (0.75") (12) PROPOSED HOT-MIX ASPHALT BASE COURSE, 11.75" (13) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, (12") (1) PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8" (15) PROPOSED COMBINATION CURB & GUTTER TYPE B6.24 (16) PROPOSED COMBINATION CURB & GUTTER TYPE B6.12 (19) PROPOSED AGGREGATE BASE COURSE, TYPE B, (4")

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
ESURFACING AND WIDENING	
SE, MIX "D", IL-9.5, N70, 1.5"	4% @ 70 GYRATION
NDER COURSE, IL-4.75, N50, 0.75"	3.5% @ 50 GYRATION
11.75" (HMA BINDER IL-19.0) (FOR WIDTHS > 6')	4% @ 70 GYRATION
EMENT RESURFACING AND WIDENING	
SE, MIX "D", IL-9.5, N70, 1.5"	4% @ 70 GYRATION
NDER COURSE, IL-4.75, N50, 0.75"	3.5% @ 50 GYRATION
10"	
SE, MIX "D", IL-9.5, N50, 2"	4% @ 50 GYRATION
6" (HMA BINDER COURSE, IL-19.0, N50)	4% @ 50 GYRATION
8" (HMA BINDER COURSE, IL-19.0, N50)	4% @ 50 GYRATION
E, IL—19.0, N70	4% @ 70 GYRATION
	·

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ.YD./IN.

THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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 ASI 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 SSRDE 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

ALL AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

SECTIONS ND FOREST AVENUE		SECTION	COUNTY	TOTAL SHEETS	sheet No:			
		14-00220-00-TL	соок	85	П			
			CONTRACT	<b>#</b> 61	E86			
STA. TO STA.	ILLINOIS FED. AID PROJECT							



# TYPICAL CROSS SECTION LEGEND

```
(1) EXISTING COMBINATION CURB & GUTTER TYPE B6.24
(2) EXISTING COMBINATION CURB & GUTTER TYPE M4.18
5 EXISTING HOT-MIX ASPHALT SURFACE COURSE
6 EXISTING HOT-MIX ASPHALT BINDER COURSE
10 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, (1.5")
(1) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, (0.75")
(12) PROPOSED HOT-MIX ASPHALT BASE COURSE, 11.75"
(3) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, (12")
(1) PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8"
(15) PROPOSED COMBINATION CURB & GUTTER TYPE B6.24
(16) PROPOSED COMBINATION CURB & GUTTER TYPE B6.12
(19) PROPOSED AGGREGATE BASE COURSE, TYPE B, (4")
```

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 ASI 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 SSRBC 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.

ALL AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

SECTIONS ND FOREST AVENUE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		14-00220-00-TL	COOK	85	12		
			CONTRACT	<b>#</b> 61	E86		
STA. TO STA.	ILLINOIS FED. AID PROJECT						





AGGREGATE SUBGRADE IM
TO BE UNSTABLE AND/OR
FIELD AT THE TIME OF CO
WITH A STATIC OR DYNAM
SUBGRADE STABILITY MAN
DEDUCTED AND NO ADDITI

NOTE:

ALL AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

FILE NAME = 4816.200-typical.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		TYPICAL CROSS SECTIONS				FAP.	SECTION	COUNTY	TOTAL	SHEET	
		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS					330	14-00220-00-TL	соок	85	13	
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE 3	LEE SI - MANNHEIM KU AND FORESI AVENUE					CONTRACT	<b>r#</b> 61	86	
	PLOT DATE = 9/30/2019 1:48 PM	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

# TYPICAL CROSS SECTION LEGEND

```
(1) EXISTING COMBINATION CURB & GUTTER TYPE B6.24
(2) EXISTING COMBINATION CURB & GUTTER TYPE M4.18
(1) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, (1.5")
(1) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, (0.75")
(12) PROPOSED HOT-MIX ASPHALT BASE COURSE, 11.75"
(13) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, (12")
(14) PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8"
(15) PROPOSED COMBINATION CURB & GUTTER TYPE B6.24
(16) PROPOSED COMBINATION CURB & GUTTER TYPE B6.12
(19) PROPOSED AGGREGATE BASE COURSE, TYPE B, (4")
```

PROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND IN UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE ONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT NUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE TO THE CONTRACTOR.



# TYPICAL CROSS SECTION LEGEND

```
(1) EXISTING COMBINATION CURB & GUTTER TYPE B6.24
(2) EXISTING COMBINATION CURB & GUTTER TYPE M4.18
5 EXISTING HOT-MIX ASPHALT SURFACE COURSE
(6) EXISTING HOT-MIX ASPHALT BINDER COURSE
(8) EXISTING HOT-MIX DRIVEWAY PAVEMENT
10 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, (1.5")
(1) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, (0.75")
(12) PROPOSED HOT-MIX ASPHALT BASE COURSE, 11.75"
(13) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, (12")
(1) PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8"
(15) PROPOSED COMBINATION CURB & GUTTER TYPE B6.24
(16) PROPOSED COMBINATION CURB & GUTTER TYPE B6.12
(19) PROPOSED AGGREGATE BASE COURSE, TYPE B, (4")
```

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 ASI 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 SSRBC 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.

ALL AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

SECTIONS ND FOREST AVENUE		SECTION	COUNTY	TOTAL SHEETS	õщ		
		14-00220-00-TL	COOK	85	14		
			CONTRACT	<b>#</b> 61	E86		
STA. TO STA.	ILLINOIS FED. AID PROJECT						

	STATION	DISTANCE (FT)	EARTH EXC END AREA	CAVATION AS (SQ FT)	EARTH EXCAVATION AVERAGE END AREA (SQ FT) CUT FILL		EARTH EXC SECTION (CU	RTH EXCAVATION ECTION VOLUMES (CU YD) ECTION VOLUMES (CU YD) EXCAVATION YD) EXCAVATION YD) EXCAVATION YD) EXCAVATION YD)		EARTH EXCAVATION CUMULATIVE VOLUMES (CU YD) CUT FILL		ADJUSTED EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%) (CU YD)
H	20.00.00		0.00	0.00		FILL	01		01	FILL		
H	20+00.00	F0.00	0.00	0.00	10.57	0.00	24.20	0.00	24.20	0.00	24.29	20.22
-	20+50.00	50.00	37.13	0.00	18.57	0.00	34.38	0.00	34.38	0.00	34.38	29.22
H	21+00.00	50.00	30.93	0.00	34.03	0.00	63.02	0.00	97.40	0.00	97.40	82.79
H	21+50.00	50.00	36.31	0.00	33.62	0.00	62.26	0.00	159.66	0.00	159.66	135.71
H	22+00.00	50.00	46.78	0.00	41.55	0.00	76.94	0.00	236.59	0.00	230.59	201.10
H	22+50.00	50.00	50.88	0.00	48.83	0.00	90.43	0.00	327.02	0.00	327.02	277.97
ŀ	23+00.00	50.00	69.00	0.00	59.94	0.00	111.00	0.00	438.02	0.00	438.02	372.32
H	23+50.00	50.00	0.00	0.00	34.50	0.00	63.89	0.00	501.91	0.00	501.91	420.02
H	24+00.00	50.00	61.47	0.00	30.74	0.00	56.92	0.00	558.82	0.00	536.62	475.00
H	24+50.00	50.00	63.87	0.00	62.67	0.00	116.06	0.00	674.88	0.00	796.60	373.63
H	25+00.00	50.00	56.89	0.00	60.38	0.00	111.81	0.00	786.69	0.00	786.69	761.00
H	25+50.00	50.00	60.47	0.00	58.68	0.00	108.67	0.00	895.36	0.00	895.30	761.06
⊢	26+00.00	50.00	64.13	0.00	62.30	0.00	115.37	0.00	1010.73	0.00	1010.73	859.12
H	26+50.00	50.00	53.07	0.00	58.60	0.00	108.52	0.00	1119.25	0.00	1119.25	951.36
H	27+00.00	50.00	50.83	0.00	51.95	0.00	96.20	0.00	1215.45	0.00	1215.45	1033.14
H	27+50.00	50.00	48.17	0.00	49.50	0.00	91.67	0.00	1307.12	0.00	1307.12	1111.05
H	28+00.00	50.00	61.95	0.00	55.06	0.00	101.96	0.00	1409.08	0.00	1409.08	1197.72
H	28+50.00	50.00	75.54	0.00	68.75	0.00	127.31	0.00	1536.39	0.00	1536.39	1305.93
⊢	29+00.00	50.00	68.83	0.00	72.19	0.00	133.68	0.00	1670.06	0.00	1670.06	1419.56
H	29+50.00	50.00	51.55	0.00	60.19	0.00	111.46	0.00	1781.53	0.00	1781.53	1514.30
H	30+00.00	50.00	44.38	0.00	47.97	0.00	88.82	0.00	1870.35	0.00	1870.35	1589.80
H	30+50.00	50.00	48.80	0.00	46.59	0.00	86.28	0.00	1956.63	0.00	1956.63	1663.14
L	31+00.00	50.00	63.20	0.00	56.00	0.00	103.70	0.00	2060.33	0.00	2060.33	1751.28
	31+50.00	50.00	61.81	0.00	62.51	0.00	115.75	0.00	2176.08	0.00	2176.08	1849.67
+	32+00.00	50.00	56.68	0.00	59.25	0.00	109.71	0.00	2285.80	0.00	2285.80	1942.93
	32+50.00	50.00	31.31	0.00	44.00	0.00	81.47	0.00	2367.27	0.00	2367.27	2012.18
F	33+00.00	50.00	10.70	0.00	21.01	0.00	38.90	0.00	2406.17	0.00	2406.17	2045.24
	33+50.00	50.00	0.00	0.00	5.35	0.00	9.91	0.00	2416.07	0.00	2416.07	2053.66
						US 12/45	(Lee Street/Ma	annheim Rd)				

STATION	DISTANCE (FT)	EARTH EX	CAVATION AS (SQ FT)	EARTH EX AVERAGE (SQ	CAVATION END AREA EFT)	EARTH EX SECTION (CU	CAVATION VOLUMES VD)	EARTH EXCAVATION CUMULATIVE VOLUMES (CU YD)		CUMULATIVE NET EARTH EXCAVATION EXCESS (+) OR SHORTAGE (-) (CU YD)	ADJUSTED EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%) (CU YD)
		СОТ	FILL	СОТ	FILL	СОТ	FILL	СОТ	FILL		(0010)
11+00.00		0.00	0.00								
11+50.00	50.00	9.24	0.00	4.62	0.00	8.56	0.00	8.56	0.00	8.56	7.27
12+00.00	50.00	18.37	0.00	13.81	0.00	25.56	0.00	34.12	0.00	34.12	29.00
12+50.00	50.00	18.00	0.00	18.19	0.00	33.68	0.00	67.80	0.00	67.80	57.63
13+00.00	50.00	25.19	0.00	21.60	0.00	39.99	0.00	107.79	0.00	107.79	91.62
13+50.00	50.00	22.74	0.00	23.97	0.00	44.38	0.00	152.17	0.00	152.17	129.34
14+00.00	50.00	83.87	0.00	53.31	0.00	98.71	0.00	250.88	0.00	250.88	213.25
14+50.00	50.00	0.00	0.00	41.94	0.00	77.66	0.00	328.54	0.00	328.54	279.26
15+00.00	50.00	50.87	0.00	25.44	0.00	47.10	0.00	375.64	0.00	375.64	319.29
15+50.00	50.00	37.10	0.00	43.99	0.00	81.45	0.00	457.09	0.00	457.09	388.53
16+00.00	50.00	17.60	0.00	27.35	0.00	50.65	0.00	507.74	0.00	507.74	431.58
16+50.00	50.00	23.18	0.00	20.39	0.00	37.76	0.00	545.50	0.00	545.50	463.68
17+00.00	50.00	25.58	0.00	24.38	0.00	45.15	0.00	590.65	0.00	590.65	502.05
17+50.00	50.00	23.37	0.00	24.48	0.00	45.32	0.00	635.97	0.00	635.97	540.58
18+00.00	50.00	18.35	0.00	20.86	0.00	38.63	0.00	674.60	0.00	674.60	573.41
18+50.00	50.00	0.00	0.00	9.18	0.00	16.99	0.00	691.59	0.00	691.59	587.85
						Forest Ave					

FILE NAME = 4816.200-DT1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		EARTHWORK SCHEDULE			F	쯡	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS				330	14-00220-00-TL	соок	85	15	
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE ST - MANNHEIM RD AND FOREST AVENUE			EST AVENUE			CONTRACT	# 61	286
	PLOT DATE = 9/30/2019 2:45 PM	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		





	PAVEMENT REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	HMA SURFACE REMOVAL, 2.25"
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	HMA SURFACE REMOVAL – BUTT JOINT
ADJ	STRUCTURE TO BE ADJUSTED
R	STRUCTURE TO BE REMOVED
<i>+//////</i> ·	UTILITY TO BE ABANDONED
$\cdot \ x \cdot x \cdot x \ \cdot$	UTILITY TO BE REMOVED
Хх	TREE/SHRUB REMOVAL
	TREE ROOT PRUNING
xxx	TEMPORARY FENCE
	PAVEMENT SAWCUT
$\bigcirc^{R}$	REMOVING AND RESETTING STREET SIGN

P	PLAN		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ND FOREST AVENUE		14-00220-00-TL	COOK	85	17
				CONTRACT	<b>#</b> 61	E86
	STA. B.O.P. TO STA. 29+50		ILLINOIS FED. A	D PROJECT		



## **REMOVAL LEGEND**



FILE NAME = 4816.200-demo1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		REMOVAL DI AN	FAP. SECTION	COUNTY		SHEET
		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS		330 14-00220-00-TL	соок	85	18
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE SI - MANNHEIM KD AND FORESI AVENUE		CONTRACT #	61E8	86
	PLOT DATE = 9/30/2019 2:09 PM	DATE -	REVISED -		SCALE: 1"=20' SHEET NO. 2 OF 3 SHEETS STA. 29+50 TO STA. E.O.P.	ILLINOIS FED.	AID PROJECT		





p	LAN	FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R	ID FOREST AVENUE		14-00220-00-TL	соок	85	19
				CONTRACT	# 61	E86
	<b>STA.</b> B.O.P. <b>TO STA.</b> E.O.P.		ILLINOIS FED.	AID PROJECT		









r		RIE			SHEETS	NQ.
	ND FOREST AVENUE		14-00220-00-TL	85 23		
	ND FOREST AVENUE			CONTRACT	# 61	E86
	STA. 11+40.33 TO STA. 16+00		ILLINOIS FED. A	ID PROJECT		





# DETECTABLE WARNINGS B6.12 CURB & GUTTER (REGULAR) B6.12 CURB & GUTTER (DEPRESSED) Idddddddd HMA SURFACE REMOVAL - BUTT JOINT

						665				
						660				
						000				
						655				
						650				
						000				
						645				
						640				
						0-0				
						635				
•										
	FAP.	SECTIO	ж	COUNTY	TOTAL	SHEET				
	330	14-00220-	-00-TI	COOK	95	24				
ND FOREST AVENUE						E86				
<b>STA</b> 16+00 <b>TO STA</b> 17+35.82		I	LINOIS FED AL		<b>m</b> 01	200				
		ILLINOIS FED. AID PROJECT								





FILE NAME = 4816.200-ero.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		FROSION AND SEDIMENT CONTROL PLAN	FAP.	SECTION	COUNTY	TOTAL	SHEET
		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS		330	14-00220-00-TL	соок	85	26
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE ST - MANNHEIM RD AND FOREST AVENUE			CONTRACT	/# 61/	86
	PLOT DATE = 9/30/2019 2:50 PM	DATE -	REVISED -		SCALE: 1"=20' SHEET NO. 2 OF 3 SHEETS STA. 31+00 TO STA. 36+00		ILLINOIS FED. AI	D PROJECT		





1) APPLY TEMPORARY EROSION CONTROL SEEDING WHEN PERMANENT VEGETATION TREATMENT CAN'T BE DONE IN A TIMELY MANNER. 2) SEE PERMANENT VEGETATION TREATMENT IN LANDSCAPE PLAN.

T	T CONTROL PLAN ND FOREST AVENUE		SECTION	COUNTY	TOTAL SHEETS	sheet No:
			14-00220-00-TL	СООК	85	27
				CONTRACT	<b>#</b> 61	E86
	STA. 11+00 TO STA. 20+00		ILLINOIS FED. A	ID PROJECT		



	EROS	ION AND SEDIMENT (	ONTROL	DETAILS	FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LEE ST	- MANNHEIM RD AN	D FORES		330	14-00220-00-TL	COOK	85	28
MENT OF TRANSPORTATION							CONTRACT	<b>#</b> 61	E86
	SCALE N/A	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





	N
STA. 13+50 VENUE GRAPHIC SCALE	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
T/EXSTN CHIEF/ O/SI 03.00' L/ IEMPORARY EASEMENT T/EXSTN CHIP: //Si/O/SI 03.00' L/ IEMPORARY EASEMENT NVC 641.79 (E) / PROP. R.O.W.	Q
ER STORN S: 643.00± m: 643.55 RIM: 645.55 RIM: 645.55 RIM: 645.55 RIM: 645.55 RIM: 645.55	5+0
T/P 641.15 SS(MM)-30'	₹
NW: 641.88 (E) 24+00 NV: 641.88 (E) 24+00 NV: 640.78 (W) STORM UNDER SANITARY NV: 638.68 (SN) STORM UNDER SANITARY A NV- 638.68 (SN) STORM UNDER SANITARY SS #9	- S1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ATCHLINE -
S3(MM) -21 14 © 0.193% S5(MM) -21 14 © 0.193% S5(MM) -41 C = 0.193% S5(MM) -41 C = 0.193% S5(MM) -41 C = 0.193% S5 (MM) -41 C = 0.193% S5 (MM) -41 C = 0.193% S5 (MM) -11 C = 0.193% S5 (M) -11 S5 (M) -	2
	660
RM: 545.88 INV: 640.18 (W) INV: 631.68 (E)	655
/         NV: 633.68 (N)           /         NV: 633.68 (S)           /         NV: 633.68 (S)           RM: 645.44         7/7: 633.14 (N)           /         T/2: 633.14 (W)           V:         635.87 (S)         T/2: 633.15 (N)           V:         635.87 (S)         T/7: 641.15 (S)           V:         635.87 (S)         T/7: 641.15 (S)	650
/   T/P: 641.15 /N) /T/P: 641.22 (N) NV: 641.4 (M) / / / / / / / / / / / / / / / / / / /	645
	640
<sup>2</sup> 27'-24 <sup>-</sup> RCP ⊕ 0.15%	635
	630
545.99 545.86 545.86 545.86 545.89 545.79 545.79	546.01
23+50 24+00 24+50 25-	+00
LITY PLAN FILE SECTION COUNTY TOTA RTE SECTION COUNTY SHEET 330 14-00220-00-TI COOK 95	L SHEET S NO. 29
IND FUNES I AVENUE         OCCUP IN 00220 00 12 0000000 100000000	61E86









ER 🕒	VALI	Æ VAULT							
IER •	VALI	Æ BOX		٠					
ER 💿		ER SERVICE VAL	VE	٠					
SEWER((		FIRE HYDRANT 🛛 🗑							
SEWER 💿	ABA	ABANDON VALVE VAULT 🛛 🖬 A							
						660			
						655			
						650			
						000			
						645			
						640			
						640			
						635			
						630			
	FAP				TOTA	SHEET			
LITY PLAN		SECTIC 14-00220-	<b>/N</b> -00-TL	COUNTY	SHEETS 85	NO. 33			
ND FOREST AVENUE					CONTRACT # 61E86				

ILLINOIS FED. AID PROJECT

WA TERMAIN







FILE NAME = 4816.100-IntDes.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS		INTERSECTION
		DRAWN - MGFC	REVISED -			
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION		- MANNHEIM RD /
	PLOT DATE = 9/30/2019 1:56 PM	DATE -	REVISED -		SCALE: 1"=10'	SHEET NO. 1 OF 2 SHEETS



PLOT DATE = 9/30/2019 1:57 PM

DATE -

REVISED -

<u> </u>	$\sim$		- 2				
GRAPHIC SCALE							
5	Ŷ	2.5	5				
( IN FEET $)1 inch = 5 ft.$							

EXIST. R.O.W.

\_\_\_\_\_

DETAILS ND FOREST AVENUE		FAP. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		330 14-00220-00-T				COOK	85	36
						CONTRACT	<b>#</b> 61	E86
	STA. TO STA.			ILLINOIS FEI	D. AI	PROJECT		

SCALE: 1"=5' SHEET NO. 2 OF 2 SHEETS


		_	$\neg$		2
			GRAPHIC	SCALE	
		:	5 0	2.5 5	
			( IN FE	ет )	
			1 inch =	5 ft.	
		NORTHWEST	CORNER OF		
	MANN	HEIM ROAD AI	ND FOREST A	VENUE	
	Point	Station	Offset	Elevation	1
	A	24+03.31	22.00' L	645.45	1
	В	24+03.31	24.00' L	645.33	
	C	24+03.31	24.58' L	645.83	_
	D F	24+03.31	31.58 L	645.90	-
	F	23+97.31	24.00' L	645.37	-
	G	23+97.31	24.58' L	645.41	
	н	23+97.31	26.58' L	645.43	
		23+97.31	31.58' L	645.48	-
1	J	23+80.56	25.44 L	645.30	-
	L	23+81.77	27.72' L	645.24	-
-	M	23+82.64	29.52' L	645.26	
	N	23+84.91	33.98' L	645.31	
	0	23+69.22	35.03' L	645.16	_
	P	23+70.88	36.16° L	645.06	-
		23+73.02	37.61' I	645.12	-
	S	23+76.94	40.71' L	645.17	1
λ.	Т	23+66.00	40.46'L	645.17	
$\mathbf{X}$	U	23+67.82	41.31' L	645.05	
$\sim$	V W	23+68.34	41.55' L	645.55	-
	X	23+76.64	49.60' L	645.19	-
	Y	23+65.18	49.92' L	645.07	
	Z	23+65.74	50.05'L	645.57	
8	AA	23+69.28	50.25' L	645.61	_
₩ × <sup>646.</sup>	BB	23+74.10	50.52° L	645.65	-
S year'	<u>0</u> #				
Ke		PROP F	ASEMENT		
	_		7/ // // //	<del>, ,, ,, ,, ,,</del>	
$ $ $\land$ $\land$	$\widehat{\mathbf{N}}$ $\widehat{\mathbf{N}}$	$\mathbf{i}$	<b>D</b> ,		
			/ • • • • • • • • • • • • • • • • • • •	70P. R.O.W.	
	4.53%	7.00%	/	<u> </u>	
		EX	(IST. <u>R.O.W.</u>		
		£.012	s		
* 1		₹( <b>H</b> )			
	1.06%	£.30%	•		
7-41-		<u>_7.00%</u>	N		
	0.98%	0.338	$\mathbb{N}$		
\ \ <b>`L</b>					
\\ <b>K</b>			$  \rangle / \mathcal{C}$	)	
		\\Ē		)	
└( <b>J</b> )				,	
Ŭ		- '(E)		)	
		Ŭ	Ŭ		
		-			
		24+00			
	FAD			TOTAL	
C	I '###'	SECTION		NIT LOUTE	

 RTE
 Section
 Steris
 NO.

 ND FOREST AVENUE
 330
 14-00220-00-TL
 COOK
 85
 37

 STA
 22+75
 TO STA
 24+15
 ILLINOIS FED. AID PROJECT
 61E86



	DRAWN - MGFC	REVISED -	STATE OF ILLINOIS				
PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION		- MANNHEIM RD Af	ID FORES	IAVENUE
PLOT DATE = 9/30/2019 2:01 PM	DATE -	REVISED -		<b>SCALE:</b> 1"=5'	SHEET NO. 2 OF 3 SHEETS	<b>STA.</b> 22+75	TO STA. 24+15

		يمي FA RT	P. SEC		COUNTY	TOTAL SHEETS	SHEE NO.
		.ب <sup>9</sup>	<b>B</b>			70741	e
		.n. <sup>69</sup>					
1.1							
11							
i i							
/			-====//				
/							
	•			/			
N) 🗸	ROT		/i	/			
~	R.U.						
/	W.						
	/	•					
10%	<b>T</b> /	1		i			
`<		/					
1 and 1	<u>&gt;</u>	<b>–</b> /		PROP. EA.	SEMENT		
< K. W.	0.108		in in h	4.11.11			
$\langle \mathbf{a} \rangle$	. /	K(M)(H	ピ/ 🗄	<u>н</u> Ч	ש		
Y /		5.430		<u> </u>	PROP. R.	0. W.	
	∕∩) \``₽	0%	0.47/				
All and a second second		\$.050	104				
TOR.		r i	18	7.7			
0:087	/ ¥	63%	<u>L</u>	×			
-		5.00%	-	4	ENISI. R.U		
	- $LH$	[¥					
-	7 1/	0.428	0.58%	/			
		/ 🕑 /	11	///	~		
			///២	/	∕ <b>(C</b> )		
	/	′ _( <b>J</b> )	//		í 🎽		
		$\bigvee$	/ _( <b>F</b> )	/	Ŕ		
			/( <b>E</b> )		/( <b>A</b> )		
					$\sim$		
		I					
·	•		]				
EE	23+79.57	64.70'R	645.67				
DD	23+73.34	61.53' R	645.60				
CC	23+72.82	61.26' R	645.10				
BB	23+71.04	60.36' R	645.22				
	23+75.64	57.50 K 61.27' R	645.68				
Y 7	23+75.15	57.19 R	645.61				
X	23+73.46	56.12' R	645.23				
W	23+85.61	55.92' R	645.28				
V	23+81.91	52.56'R	645.21				
U	23+80.42	51.22' R	645.18				
Т	23+79.99	50.84' R	645.14				
к S	23+92.59	49.70 K 49.50 R	645.29				
Q	23+89.74	45.67' R	6458.22				
P	23+88.60	44.03' R	645.19				
0	23+88.27	43.55' R	645.15				
N	23+87.13	41.91' R	645.25				
M	24+00.78	45.40' R	645.30				
r. I	23+98.21	40.75'R	645.20				
J	23+98.00	38.35' R	645.16				
I	23+97.27	36.49' R	645.26				
Н	24+07.23	43.46' R	645.67				
G	24+05.77	36.61' R	645.60				
	24+05.24	36.05' R	645.22				
D	24+15.62	42.58' R	645.63				
С	24+15.62	35.58'R	645.56	1	(in real) inch = 5 ft.		
В	24+15.62	35.00' R	645.06				
	24+15.62	33.00' R	645.18				
A	otation	011000	Elonation	, e	0 10		
Point A	Station	Offset	Elevation	5	0 2.5	5	
MANNI Point A	HEIM ROAD AI Station	ND FOREST A	AVENUE Elevation	GRA 5	PHIC SCA	LE 5	•
MANNI Point A	NORTHEAST HEIM ROAD AI Station	CORNER OF ND FOREST / Offset	AVENUE Elevation	GRA 5	PHIC SCA		71

ILLINOIS FED. AID PROJECT

	ere rex	
<u>EXISI. R.O.W.</u> <u>Exist. R.O.W.</u> <u>E</u>	ееееееее	E EXIST. R.O.W. E T
<u><u>5.5%</u></u>	*51	K 1 10 0.02 1.03 1.03 (A)
A D B E C F		

NORTHWEST CORNER OF FOREST AVENUE AND ENTRANCE								
Point	Station	Offset	Elevation					
A	15+43.15	18.58'L	645.48					
В	15+43.15	18.00'L	644.98					
С	15+43.15	17.00'L	645.04					
D	15+51.15	18.59'L	645.04					
E	15+51.15	18.01'L	644.92					
F	15+51.15	17.01'L	644.98					
G	15+56.55	18.59'L	645.01					
Н	15+56.55	18.01'L	644.89					
1	15+56.55	17.01'L	644.95					
J	15+61.05	18.60'L	644.98					
K	15+55.69	19.92'L	645.00					
L	15+56.01	19.43'L	644.96					
М	15+61.04	25.59'L	645.07					
N	15+60.05	25.73'L	645.03					
0	15+59.48	25.82'L	645.08					
Р	15+59.58	31.73'L	645.72					
Q	15+60.16	31.73'L	645.22					
R	15+61.16	31.73'L	645.16					
S	15+51.15	25.59' L	645.14					
Т	15+43.14	25.58' L	645.58					



FILE NAME = 4816.100-IntDes.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			FAP.	SECTION	COUNTY	SHEETS	SHEET NO.
		DRAWN - MGFC	REVISED -		LEE ST - MANNHEIM RD AND EOREST AVENUE		14-00220-00-TL	соок	85	39
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	# 61	.86
	PLOT DATE = 9/30/2019 2:00 PM	DATE -	REVISED -		SCALE: 1"=5' SHEET NO. 3 OF 3 SHEETS STA. 31+75 TO STA. 33+00		ILLINOIS FED. AI	D PROJECT		







NORTHEAST CORNER OF FOREST AVENUE AND ENTRANCE								
Point	Station	Offset	Elevation					
A	16+09.66	18.62'L	644.93					
В	16+09.66	18.04' L	644.43					
С	16+09.66	17.01'L	644.49					
D	16+03.66	18.63'L	644.61					
E	16+03.66	18.05'L	644.49					
F	16+03.66	17.05'L	644.55					
G	15+96.73	18.63'L	644.68					
Н	15+96.73	18.05'L	644.56					
l	15+96.73	17.05'L	644.62					
J	15+89.43	18.62'L	644.76					
К	15+97.41	20.05'L	644.67					
L	15+97.16	19.53'L	644.63					
М	15+89.43	25.72'L	644.85					
Ν	15+90.32	26.18' L	644.81					
0	15+90.83	26.45'L	644.86					
Р	15+89.27	31.96'L	645.62					
Q	15+88.69	31.91'L	645.12					
R	15+87.70	31.84' L	645.08					
S	16+03.70	25.66'L	644.71					
Т	16+09.70	25.62'L	645.03					

\_\_\_\_\_



DRAWN - MGFC

CHECKED - KLB

-

DATE

PLOT SCALE = 1" = .1667'

PLOT DATE = 9/30/2019 1:59 PM

REVISED -

REVISED -

REVISED -



NORTHEAST CORNER OF FOREST AVENUE AND ENTRANCE							
Point	Station	Offset	Elevation				
А	17+91.69	15.61'L	643.72				
В	17+91.32	15.16'L	643.22				
С	17+90.69	14.39'L	643.28				
D	17+90.71	10.02'L	642.93				
E	17+84.25	9.99'L	642.97				
F	17+89.50	17.66'L	643.45				
G	17+89.08	17.26'L	643.41				
Н	17+88.35	16.58'L	643.46				
-	17+84.22	17.40'L	643.56				
J	17+85.63	23.13'L	643.62				
К	17+85.11	22.87'L	643.58				
L	17+84.20	22.40'L	643.63				
М	17+84.42	25.89'L	644.26				
N	17+83.88	25.69'L	643.76				
0	17+82.94	25.35'L	643.82				
P	17+89.50	22.67'L	643.52				
Q	17+94.50	22.66'L	643.59				
R	17+94.50	17.67'L	643.52				
S	18+05.35	22.65'L	643.90				
Т	18+05.38	17.67'L	643.80				

	ADA DETA	ILS	FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I EE QT			330	14-00220-00-TL	СООК	85	40
					CONTRACT	<b>#</b> 61	E86
1"=5'	SHEET NO. 3 OF 3 SHEETS	<b>STA.</b> 31+75 <b>TO STA.</b> 33+00		ILLINOIS FED. A	ID PROJECT		

SCALE: 1"=5' SHEET NO. 3 OF 3 SHEETS



	<b>-</b> ~	Y			-	N
	GRAPH	HIC	SC	ALE		
5		Ŷ	2	.5	5	
	(1 1 inc	N FE	ЕТ) 5 f	't.		

NORTHWEST CORNER OF MANNHIEM ROAD AND VAN BUREN AVENUE								
Point	Station	Offset	Elevation					
А	32+52.94	40.20'L	644.85					
В	32+52.44	40.12'L	644.66					
С	32+54.94	34.57'L	644.79					
D	32+54.50	34.33'L	644.75					
E	32+60.37	28+97'L	644.88					
F	32+60.12	28+52'L	644.84					
G	32+66.15	27.34'L	645.19					
Н	32+66.09	26.84'L	644.87					
1	32+67.44	27.20'L	645.18					
J	32+67.28	32.01'L	645.19					
К	32+67.16	34.27'L	645.17					
L	32+63.95	34.99'L	644.98					
М	32+61.39	30.69'L	644.91					
N	32+61.02	38.04'L	644.89					
0	32+56.67	35.56'L	644.82					

EXIST. R.O.W.

\_3<u>3+00</u>

PROP. R.O.W.

AILS		FAP. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
R	ID FOREST AVENUE	330	14-00220	л—00—т	l	COOK	85	41
						CONTRACT	# 61	E86
	<b>STA.</b> 31+75 <b>TO STA.</b> 33+00			ILLINOIS	FED. AI	D PROJECT		





FILE NAME = 4816.200-pmk.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			PAVEMENT MAR	(ING PI	AN	FAP.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -						330	14-00220-00-TL	соок	85	43
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	# 61	86	
	PLOT DATE = 9/30/2019 2:56 PM	DATE -	REVISED -		<b>SCALE:</b> 1"=20'	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		





K	KING PLAN ND EOREST AVENUE		SECT			COUNTY	TOTAL SHEETS	SHEET NO.
R			14-0022	0-00-т	L	COOK	85	44
						CONTRACT	# 61	E86
	STA. TO STA.			ILLINOIS	FED. A	ID PROJECT		





PLAN		FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	sheet No:
R	ND FOREST AVENUE		14-00220-00-TL	COOK	85	46
				CONTRACT	<b>#</b> 61	E86
	STA. B.O.P. TO STA. 29+50		ILLINOIS FED. AI	D PROJECT		



FILE NAME = 4816.200-LS1.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		LANDSCAPE PLAN	FAP.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS		330	14-00220-00-TL	СООК	85	47
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE SI - MANNHEIM RU AND FORESI AVENUE			CONTRACT	# 61	36
	PLOT DATE = 9/30/2019 2:53 PM	DATE -	REVISED -		<b>SCALE:</b> 1"=20' SHEET NO. 2 OF 3 SHEETS STA. 29+50 TO STA. E.O.P.		ILLINOIS FED. AI	D PROJECT		





TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT



TREE TO BE REMOVED

EXISTING TREE

PROPOSED TREE

NOTE: CONTRACTOR SHALL PROVIDE SPADED EDGES FOR ALL SODDING AREA ABUTTING EXISTING TREES BY MAINTAINING A MULCH RING, 5' DIAMETER MINIMUM, AROUND THE TREE.







Eus

 $\mathbf{X}$ 

£

TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT

EXISTING TREE

TREE TO BE REMOVED

PROPOSED TREE

NOTE: CONTRACTOR SHALL PROVIDE SPADED EDGES FOR ALL SODDING AREA ABUTING EXISTING TREES BY MAINTAINING A MULCH RING, 5' DIAMETER MINIMUM, AROUND THE TREE.

PLAN		FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO:			
ND FOREST AVENUE		330	14-00220-00-TL	COOK	85	48			
				CONTRACT	<b>#</b> 61	E86			
	STA. B.O.P. TO STA. E.O.P.	ILLINOIS FED. AID PROJECT							



FILE NAME =	USER NAME = mcobb	DESIGNED – JRD	REVISED -			TRAFF	FIC SIGN	IAL INST		PLAN	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET
4816.200 - Perm Signal Plan.dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS	ILC DTE 14	) /AE /IEE	C CT I			ID EODEST AVENUE	330	14-00220-00-TL	СООК	85	49
4816.2	PLOT SCALE = 1:40	CHECKED - DPB	REVISED -	DEPARTMENT OF TRANSPORTATION	U.3. NIE 1/	2 / 43 (LEE	51 - 1	MAININE		ND FUREST AVENUE	_		CONTRAC	INO. E	31E86
Default	PLOT DATE = 4/8/2019	DATE -	REVISED -		SCALE: 1"=20"	SHEET	OF	SHEET	S STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



	FILE NAME =	USER NAME = mcobb	DESIGNED – JRD	REVISED -			UTILITY PLAN				F.A.P.	SECTION	COUNTY	TOTAL	SHEET
	4816.200 - Utility.dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS		) /AE /IEE	ст М		D ENDERT AVENUE	330	14-00220-00-TL	соок	85	50
	4816.2	PLOT SCALE = 1:40	CHECKED - DPB	REVISED -	DEPARTMENT OF TRANSPORTATION	U.S. NIE 12	2 / 45 (LEE	31 – IV		D FUREST AVENUE			CONTRAC	T NO.	61E86
-1	Default	PLOT DATE = 4/8/2019	DATE -	REVISED -		SCALE: 1"=20'	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



# SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	7.5	1	zz	2



NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15.00
SIGN PANEL - TYPE 2	SQ FT	40.00
SERVICE INSTALLATION - GROUND MOUNTED, METERED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED SIEEL, 2" DIA.	FOOT	170
UNDERGROUND CONDUIT, GALVANIZED SIEEL, 5" DIA.	FOOT	136
UNDERGROUND CONDUTT, GALVANIZED STEEL, 4 DTA.	FOOT	405
	EACH	
	FACH	2
ELECTRIC CABLE IN CONDUIT. SIGNAL NO. 14 2C	FOOT	1.217
ELECTRIC CABLE IN CONDUIT. SIGNAL NO. 14 3C	FOOT	1,595
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,194
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,457
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,546
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	119
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	595
TRAFFIC SIGNAL POST, GALVANIZED SIEEL 16 FI.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 30 FI.		1
STEEL MAST ARM ASSEMBLT AND FULE, 34 FT.		1
STEEL MAST ARM ASSEMBLI AND FOLE, 30 FT.		1
CONCRETE FOUNDATION TYPE A	FOOT	16
	FOOT	4
CONCRETE FOUNDATION. TYPE E 36-INCH DIAMETER	FOOT	46
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	LACH	8
DETECTOR LOOP, TYPE I	FUUT	/10
	EACH	1
		1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CARLE NO. 20.3/C	FOOT	306
TEMPORARY WIRELESS INTERCONNECT. COMPLETE	I SUM	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	L	

NO.	
SHT	
TS	
INC.	
HAM Ates,	
GEWALI Associ/	
$\overline{\mathbf{A}}$	

4

FILE NAME =	USER NAME = mcobb	DESIGNED – JRD	REVISED -			MAST AR	M MOU	NTED STREET NAM	AE SIGNS	F.A.P. RTF.	SECTION	COUNTY	TOTAL	SHEET
4816.200 - Cable Sıgnage Plan.dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS		AN	D SCHEI	DULE OF QUANTITI	ES	330	14-00220-00-TL	СООК	85	52
4816.2	PLOT SCALE = 1:40	CHECKED – DPB	REVISED -	DEPARTMENT OF TRANSPORTATION	U.S. RTE 12 /45 (LEE ST – MANNHEIM RD) AND FOREST AVENUE							CONTRAC	T NO.	61E86
Default	PLOT DATE = 4/3/2019	DATE -	REVISED -		SCALE: NONE	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

# SCHEDULE OF QUANTITIES

## TS 13003 EAGLE 8N





GEVALT HAMILTON Associates, INC. TS SHT NO.5

FILE NAME =	USER NAME = mcobb	DESIGNED - JRD	REVISED -		TEM	PORARY I	NTERCO	NNECT P	LAN AND	SCHEMATIC	F.A.P.	SECTION	COUNTY	TOTAL SHEET
4816.200 - Interconnect Temp Plan.dgn		DRAWN - ZCW	REVISED -	STATE OF ILLINOIS		J.S. RTE 12	2 /45 (LI	EE ST –	MANNHEIM	RD) —	330	14-00220-00-TL	COOK	85 53
4816.2	PLOT SCALE = 1:100	CHECKED - DPB	REVISED -	DEPARTMENT OF TRANSPORTATION		PROSPEC	T AVEN	UE TO A	LGONQUIN	ROAD			CONTRAC	T NO. 61E86
Default	PLOT DATE = 4/3/2019	DATE -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	



# EAGLE 8H



PROPOSED INTERCO U.S. RTE 12 /45 (LEE ST – PROSPECT AVENUE TO *F* FILE NAME = USER NAME = mcobb DESIGNED - JRD REVISED STATE OF ILLINOIS 4816.200 - Interconnect Perm Plan.dgn DRAWN – ZCW REVISED 4816.2 PLOT SCALE = 1:100 CHECKED - DPB REVISED **DEPARTMENT OF TRANSPORTATION** Default PLOT DATE = 4/3/2019 DATE REVISED SCALE: 1"=50' SHEET OF SHEET

# EAGLE 8H

**>**-⊖→ Z

NNECT PLAN	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MANNHEIM RD) –	330	14-00220-00-TL	СООК	85	54
ALGONQUIN ROAD			CONTRACT	NO. 6	51E86
S STA. TO STA.		ILLINOIS FED. AI	D PROJECT		



# **SCHEDULE OF QUANTITIES**

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,098
	HANDHOLE	EACH	1
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2,300
	DRILL EXISTING HANDHOLE	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,796
	REMOVE EXISTING HANDHOLE	EACH	2
*	ROD AND CLEAN EXISTING CONDUIT	FOOT	1,000
	CONDUIT SPLICE	EACH	1
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,300
	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2

Default	PLOT DATE = 4/3/2019	DATE -		REVISED -			SCALE: NONE	SHEET (	OF SHEET	TS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	1 NU. 6112
4816.200 - Interconnect Schematic.dgn	PLOT SCALE = 1:100	CHECKED -	ZCW DPB	REVISED -		STATE OF ILLINUIS DEPARTMENT OF TRANSPORTATION		PROSPECT AV	/ENUE TO A	- MANNHEIM ALGONOUIN F	KD) – ROAD	330	14-00220-00-TL	COOK	85 5
FILE NAME =	USER NAME = mcobb	DESIGNED -	JRD	REVISED -		STATE OF HUNDIS	PROPOSED IN	NTERCONNECT	SCHEMATIC	AND SCHED	ULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SH SHEETS N
														E	AGLE 8
	* NOMINAL QUANTITY TO	BE USED AS NEEDED A	AND AS APPROVE	D BY THE ENGINEER											
	RE-OPTIMIZE TRAFFIC SI	GNAL SYSTEM LEVEL	2		EACH	2									
-	FIBER OPTIC CABLE IN C	CONDUIT, NO. 62.5/	125, MM12F S	SM24F	FOOT	2,300									
-	CONDUIT SPLICE				EACH	1									
*	ROD AND CLEAN EXISTING	G CONDUIT			FOOT	1.000									
-	REMOVE EXISTING HANDHO				FACH	2,150									
_	DRILL EXISTING HANDHOL	EPOM CONDULT			EACH	2 796									
	ELECTRIC CABLE IN COND	DUIT, TRACER, NO.	14 1C		FOOT	2,300									
_	TRANSCEIVER - FIBER OF	DITC			EACH	1									
-	MAINTENANCE OF EXISTIN	NG TRAFFIC SIGNAL	INSTALLATION		EACH	2									
-	HANDHOLE				EACH	1									
-	UNDERGROUND CONDUIT. G	GALVANIZED STEEL.	2" DIA.		FOOT	1.098									
		ITEM DESC	CRIPTION		UNITS	QTY.									

# EAGLE 8N

**⊅-**≙-≻ z

# TRAFFIC SIGNAL LEGEND

4816.2         PLOT SCALE = 1:2           IDOT DI STANDARD TS05.0         PLOT DATE = 4/3/2019		CHECKED - DAD DATE - 10-28-09	REVISED - REVISED -	DEPARTMENT	OF TRANSPO	DRTATION	SCALE: NO	NE SHEET NO. 1 OF 7 SHEETS STA. TO STA.		TS-05	CONTRACT NO. 6
FILE NAME = USER NAME = mcobb 4816.200 - IDDT-StdDetails.dgn		DESIGNED – DAG/BCK DRAWN – BCK	REVISED - REVISED -	DAG 1-1-14 STATE	OF ILLINOIS	s		DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 330	SECTION 14-00220-00-TL	COUNTY TOTAL SHEETS COOK 85
WIRELESS ACCESS POINT				NO. 6 SOLID COPPER (GREEN)			(1)			ц -	
WIRELESS DETECTOR SENSOR	ĸŴ	(W)	(W)	ALL DETECTOR LOOP CABLE TO BE SHIELDED		-	C	CROSSBUCK		<u> </u>	
PAN, TILT, ZOOM CAMERA		(PTZ)	PTZ <b>I</b>	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		5		CROSSING GATE		XoX>	XOX
	R		~	RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL	2		
VIDEO DETECTION ZONE								RAILROAD CANTILEVER MAST ARM	>		XeX X
VIDEO DETECTION CAMERA	R		[]	RADIO INTERCONNECT				RAILROAD CONTROL CABINET			
MICROWAVE VEHICLE SENSOR	R			PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C C	₽ K			EXISTING	PROPOSED
PREFORMED DETECTOR LOOP		P	P	INTERNATIONAL SYMBOL, SOLID		×.	*	RAILROAD	SYMBC	ILS	
DETECTOR LOOP, TYPE I				12" (300mm) PEDESTRIAN SIGNAL HEAD							
"NO RIGHT TURN"	$\otimes$	8		12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL. OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		Î — Î LPSI	PS
ILLUMINATED SIGN	R			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		Ĩ₽ISĨ Į₽ISĨ	PIS
ILLUMINATED SIGN "NO LEFT TURN"	R	B	$\bigcirc$			"P"	"P"	PREFORMED QUEUE DETECTOR		¦PQj	[PO]
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R © APS	@aps	APS	"RB" INDICATES REFLECTIVE BACKPLATE		€ €	<b>♦</b> Y <b>♦</b> G			μ	i
PEDESTRIAN PUSHBUTTON DETECTOR	R	0	۲	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		r G	G	QUEUE DETECTOR			Q
PEDESTRIAN SIGNAL HEAD	R -	-[]	-8			R	R	SAMPLING (SYSTEM) DETECTOR			S
S DENOTES SOLAR POWER)	O-⊳′′F′′	O-t> <sup>−+</sup> ″	••			( <b>€</b> G)	€G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
LASHER INSTALLATION	>-''P'' R	с. "F"	- r	SIGNAL FALE		₹¥	€ €Y	TO BE REMOVED	0		
SIGNAL HEAD OPTICALLY PROCRAMMED	+1>-		+ <b>►</b> - <b>►</b> ″₽″			× C	Y	SIGNAL POST AND FOUNDATION	RPF		
(NUMBERS INDICATE THE CONSTRUCTION STAGE)	. ~ R	~	- <b>&gt;</b> <sup>2</sup>			C) (R)	R	AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF O-X		
SIGNAL HEAD			→ 2	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R		FUUNDATION TO BE REMOVED	<u> </u>		
GUY WIRE	R	>	~	12" (300mm) TRAFFIC SIGNAL SECTION			R	ALUMINUM MAST ARM POLE AND	RMF		
BETTER) 45 FOOT (13.7m) MINIMUM	× R	×.	-	ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR	ro R	∪ ⊗	•	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED	$\bowtie$		
ASSEMBLY AND POLE WITH PTZ CAMERA	ব্যেন্	PTZ]J	PTZN	REMOVE ITEM	R	1	IF	CONTROLLER CABINET AND	RCF		
STEEL COMBINATION MAST ARM	R	Q	•	SISTEM TIEM		S	<b>с</b>	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		Cull-o	°ı⊫→
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R	0-¤	• <del>×</del>	COILABLE NONMETALLIC CONDUIT (EMPTY)		c	CNC	GROUND ROD AT (C) CONTROLLER.			
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125. MM12F SM24F		36F	
STEEL MAST ARM ASSEMBLY AND POLE	R		_ •	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R			NO. 62.5/125, MM12F SM12F		-(24)	
TELEPHONE CONNECTION	R	P	P [T]	GALVANIZED STEEL (UC)				FIBER OPTIC CABLE		$\sim$	
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	- <u></u> R	- <u></u> P	- <b>-</b>		n D	Ø	0	FIBER OPTIC CABLE		(12F)	
UNINTERRUPTABLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		_6	6)
MASTER MASTER CONTROLLER	0	EMMC	MMC	HEAVY DUTY HANDHOLE	R H	Η	Η	VENDOR CABLE FOR CAMERA		— <u>v</u>	—(v)—
MASTER CONTROLLER		EMC	MC	HANDHOLE						, ,	
COMMUNICATIONS CABINET	R	FCO		CONFIRMATION BEACON	R	ΟU	•	COAXIAL CABLE		— <u>c</u>	—C)—
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR	Re d	~		NO. 14 1/C, UNLESS NOTED OTHERWISE			
	REMOVAL	EXISTING			R		FROFUSED	FLECTRIC CABLE IN CONDUIT, TRACER,	REMOVAL		<u>FROFOSED</u>
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	FXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED

#### LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



#### DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.







### LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUF OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE ST
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

$\triangleleft$	FILE NAME =	USER NAME = mcobb	DESIGNED -	DAD	REVISED -	DAG 1-1-14			DISTRICT ONE		F.A.P.	SECTION	COUNTY	TOTAL SHE	EET
	4816.200 - IDOT-StdDetails.dgn		DRAWN -	ВСК	REVISED -		STATE OF ILLINOIS		STANDARD TRAFFIC SIGNAL DESIGN		330	14-00220-00-TL	соок	85 5	
	4816.2	PLOT SCALE = 1:2	CHECKED -	DAD	REVISED -		DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN	I DETAILS		TS-05	CONTRACT	T NO. 61E8	36
	IDUT DI STANDARD IS056	PLOT DATE = 4/3/2019	DATE –	10-28-09	REVISED -			SCALE: NONE	SHEET NO. 2 OF 7 SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

6



#### DETAIL "B" LOOP-TO-CONTROLLER SPLICE

### TYPE I LOOP



#### **PRE-FORMED LOOP**

#### DETAIL "B" LOOP-TO-CONTROLLER SPLICE

RFACES	5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
TAGGERED.	6 PRE-FORMED LOOP
GRADE.	
GRADE.	BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL



5.0 FT. (1.5 m) MAX

BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

#### TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOU
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOU
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOU
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOU
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOU
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOU
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOU

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.

2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.

AND

SEE TABLE I

 $(\bullet)$ 

⁰●⊒⊤

SEE NOTE I

3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.

4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

$\leq$	FILE NAME =	USER NAME = mcobb	DESIGNED -	DAD	REVISED - DAG 1-1-14			г	NETRICT ON
	4816.200 - IDOT-StdDetails.dgn		DRAWN -	BCK	REVISED -	STATE OF ILLINOIS			
	4816.2	PLOT SCALE = 1:2	CHECKED -	DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAF	FIC SIGNAL
<b>D</b>	IDOT DI STANDARD TS05c	PLOT DATE = 4/3/2019	DATE -	10-28-09	REVISED -		SCALE: NONE	SHEET NO. 3 OF 7	SHEETS



TULINOIS FED AID PROJECT



### NOTES: GROUNDING SYSTEM

LE FRAME 9mm) DIA., HOLES GROUND ION TERMINAL	<ol> <li>THE CROUNDING SYS TYPE XLP, NO. 6 A. RACEWAYS. THE GRO IN A CONTINUOUS M ALL GROUNDING CON (HANDHOLE, POST, M 3/4" DIA. × 10'-0" SHALL BE INSTALLE</li> </ol>	TEM SHA W.G., STR UNDING ( IANNER A IDUCTORS IAST ARM (20mm > D AT ALI	LL CONSIST OF AN INSULA AANDED COPPER TO BE INS CABLE SHALL BE INSTALLE( S SHOWN ON THE CABLE PI SHALL BE BONDED TO ME' , CONTROLLER, ETC.), GROL ( 3.0m) LONG, COPPER CLAI _ POST FOUNDATIONS, POLL	TED CONDUCT TALLED IN ) AN PROVIDED TAL ENCLOSUF IND ROD SHAL D. ONE GROUN E FOUNDATION	OR RE L BE D ROD S,	
	CONTROLLER CABINE AS INDICATED ON T SUCH AS SUB-SURFA ENGINEER SHALL BE ILLINOIS DEPARTMEN (847) 705-4139. 2. THE NEUTRAL CONDL	T FOUND HE CABLE ACE COND NOTIFIE NT OF TF JCTOR AN	ATION AND ELECTRICAL SE E PLAN. IF THERE ARE AN ITIONS OR INSTALLATION H D OR CONTACT THE BUREAN RANSPORTATION DISTRICT ( ID THE GROUND CONDUCTOR	RVICE INSTAL Y SPECIAL CO PROBLEMS, TH J OF TRAFFIC INE AT SHALL BE	LATION DNDITION E RESIDE	S ENT
	CONNECTED IN THE IN THE TRAFFIC SIC CONDUCTORS BE COM	SERVICE SNAL SYS NNECTED.	INSTALLATION. AT NO OT TEM SHALL THE NEUTRAL	HER POINT AND GROUND		
	<ol> <li>ALL EQUIPMENT GRO IN THE CONTROLLER</li> <li>THE CONTRACTOR SH BETWEEN THE HANDH</li> </ol>	OUNDING CABINE HALL PRO HOLE COV	CONDUCTORS SHALL TERMIN T. IVIDE A GROUND CABLE WIT TER AND HANDHOLE FRAME.	ATE AT THE	GROUND S	BUS
		· · · · · · · · · · · · · · · · · · ·			、	· · · · · · · · · · · · · · · · · · ·
HEAVY-DUI (BURNDY T •	Y COMPRESSION TERMIN YPE YGHA OR APPROVED NOTES: ALL CLAMPS SHALL BE GROUND CABLE SHALL I 6.5' (2.0m) SLACK SHA 13' (4.0m) OF SLACK SHA 5' (1.4m) OF SLACK SHA	AL EOUAL) BRONZE BE LOOP L BE PF HALL BE ALL BE I	∛4" (20mm) HEAVY-I (BURNDY TYPE GRC ( BURNDY TYPE GRC ( COPPER, UL APPROVE ED OVER HOOKS IN THE H ROVIDED IN SINGLE HANDH PROVIDED IN DOUBLE HAN PROVIDED BETWEEN FRAME	DUTY GROUND R APPROVED D. ANDHOLES OLES UDHOLES. AND COVER.	ROD CL EQUAL)	AMP
GROUND (BURNDY OR APPR WENT GROUNDING 5 GROUND (GREEN	LUG TYPE KC, K2C, DVED EQUAL) COLOR CODED)		GROUNDING E 1/C *6 GROU HEAVY DUTY ( EXOTHERMIC W OR U.L. APPR (TYPICAL FOR	LECTRODE CC ND (GREEN C ROUND ROD ELD, VED CONNEC ALL GROUND	NDUCTOR DLOR CO CLAMP, TOR. RODS)	₹ DED)
MA	ST ARM POLE /	РОЗТ- т то sc/	-GROUNDING DETA ALE)	(20mm × 3.0 ND ROD	m) COPPI	ER
DNE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

AL DESIGN DETAILS		330	14-0022	20-00-T	Ľ	СООК	85	59	
		TS-05			CONTRACT	NO.	61E86		
;	STA. TO STA.				ILLINOIS	FED. AI	D PROJECT		



SCALE: NONE

SHEET NO. 5 OF 7 SHEETS

NO. SHT TS

12

GEWALT HAMILTON Associates. Inc. 

Э

IDOT D1 STANDARD TS05e

PLOT DATE = 4/3/2019

DATE

10-28-09

REVISED

ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
(9.1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
equal to	13'-6" (4.1 m)	30'' (750mm)	24" (600mm)	8	6(19)
ess than m)	11'-0'' (3.4 m)	36'' (900mm)	30'' (750mm)	12	7(22)
equal to less than m)	13'-0'' (4.0 m)	36" (900mm)	30'' (750mm)	12	7(22)
equal to up to m)	15'-0'' (4.6 m)	36'' (900mm)	30" (750mm)	12	7(22)
equal to less than m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
equal to d up to m)	25'-0'' (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

INE AL DESIGN DETAILS				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Λ.		DETAILS	330	14-00220-00-TL	СООК	85	60
H	AL DESIGN DETAILS			TS-05	CONTRACT	NO. 6	51E86
	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



	FILE NAME =	USER NAME = mcobb	DESIGNED - DAD	REVISED - DAG 1-1-14	
	4816.200 - IDOT-StdDetails.dgn		DRAWN - BCK	REVISED -	STATE OF ILLINOIS
	4816.2	PLOT SCALE = 1:2	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION
<b>D</b>	IDOT DI STANDARD TSØ5f	PLOT DATE = 4/3/2019	DATE - 10-28-09	REVISED -	

STANDARD TRAFFIC SIGNA SCALE: NONE

SHEET NO. 6 OF 7 SHEETS



#### MATERIAL:

- ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED

	С	HEIGHT	WEIGHT
	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
ר)	21.5''(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

### SHROUD

в

1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.

2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.

3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NJTS AND MAST ARM POLE BASE.





1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001. 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

### HANDHOLE TO INTERCEPT EXISTING CONDUIT

NE L DESIGN DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
NE L DESIGN DETAILS STA. TO STA.	330	14-00220-00-TL	СООК	85	61		
	_	TS-05 CONTRACT NO. 61					
	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



GEWALT HAMILTON Associates, inc. 

IDOT DI STANDARD TSØ5g

PLOT DATE = 4/3/2019

REVISED - 10/1/2012

DATE

SCALE: NONE SHEET NO. 7 OF 7 SHEETS

1	NE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	L DESIGN DETAILS		330	14-00220-00-TL	соок	85	62
		DETAILO		TS05	CONTRACT	NO. 6	51E86
	STA. TO	TO STA.		ILLINOIS FED. A	ID PROJECT		













FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94					F.AP.	SECTION	COUNTY	TOTAL	SHEET NO.
W:\diststd\22x34\bd03.dgn		DRAWN -	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS		OUTER TOR CONTRELL		330	14-00220-00-TL	соок	85	63
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - E. GOMEZ 12-21-00	DEPARTMENT OF TRANSPORTATION		CURB AND GUTER		BD6	i00-01 (BD-03)	CONTRAC	T NO. 61E	86
	PLOT DATE = 1/4/2008	DATE - 08-04-86	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT		





★ DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER. TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



#### GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

#### QUANTITIES

 FOR SECTION A-A TO E-E AND CURTAIN WALL=

 1.25 CU. YDS. (0.96 m<sup>3</sup>) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T.

 1.27 CU. YDS. (0.96 m<sup>3</sup>) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.

 FOR SECTION F-F=

 0.045 CU. YDS. (0.03 m<sup>3</sup>) CLASS SI CONCRETE PRE ft. (m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



#### NOTES

#### MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

#### CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS: A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

#### GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST

BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

#### BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92			DETAIL OF STORM SEWER	F.AP RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
W:\diststd\22x34\bd07.dgn		DRAWN -	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS	CONNECTION TO EXISTING SEWER	330	14-00220-00-TL	СООК	85	64	
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94	DEPARTMENT OF TRANSPORTATION		CONNECTION TO EXISTING SEWER		BD500-01 (BD-7)	CONTRAC	T NO. 61	-86
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED.	ROAD DIST. NO. 1 ILLINOIS FED	AID PROJECT		



### DETAIL "C" PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

						ROAD CONSTRUCTION AHEAD *TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. (SEE NOTE 2) 200'± (60 mt) DRIVEWAY WORK AREA J * ROAD CONSTRUCTION HEAD	TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. (SEE NOTE 1)
					NOTES:		
					<ol> <li>SIDE ROAD WITH A SPEED I SHOWN ON THE DRAWING AN</li> <li>ONE "ROAD CONSTRUC MOUNTED ON IT APPR</li> <li>THE CLOSED PORTION BLOCKING WITH TYPE THE CROSS SECTION</li> <li>SIDE ROAD WITH A SPEED I AS SHOWN ON THE DRAWING</li> <li>ONE "ROAD CONSTRUC FLASHER MOUNTED ON OF THE MAIN ROUTE.</li> <li>THE CLOSED PORTION BLOCKING WITH TYPE OF THE CLOSED PORTION BLOCKING WITH TYPE OF THE CLOSED PORTION SCONES MAY BE SUBSTITUTE SPACING DURING DAY OPER/ IN HEIGHT.</li> <li>WHEN THE SIDE ROAD LIES SIGNING AND THE WORK ZOD BE USED IN LIEU OF THE D</li> </ol>	IMIT OF 40 MPH (60 km/h) OR LESS AS D AS DIRECTED BY THE ENGINEER: TION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER OXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. OF THE MAIN ROUTE SHALL BE PROTECTED BY I, TYPE II OR TYPE III BARRICADES, 1/3 OF OF THE CLOSED PORTION. IMIT GREATER THAN 40 MPH (60 km/h) AND AS DIRECTED BY THE ENGINEER: TION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A I IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE SHALL BE PROTECTED BY III BARRICADES, 1/2 OF THE CROSS SECTION ION. D FOR BARRICADES OR DRUMS AT HALF THE ATIONS. CONES SHALL BE A MINIMUM OF 28 (710) BETWEEN THE BEGINNING OF THE MAINLINE VE, A SINGLE HEADED ARROW (M6-1). SHALL DOUBLE HEADED ARROW (M6-4).	<ol> <li>WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY. FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.</li> <li>ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.</li> <li>THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.</li> </ol>
FUE MAKE -	USED NAME - 6				,		All dimensions are in inches (millimeters) unless otherwise shown.
rice NMME - pwi\\1L084EBIDINTEG.illinois.gov:PWIDOT\Do Default	uments\IDOT Offices\District I\Projects\Dist PLOT SCALE = 50.000 '/ in. PLOT DATE = 9/15/2016	DESIGNED - L.H.A.     DRAWN\CADDeta\CADsheets\tcl0.dgn     CHECKED -     DATE - 06-89	REVISED         -         A. HOUSEH 10-15-96           REVISED         -T. RAMMACHER 01-06-00           REVISED         -         A. SCHUETZE 07-01-13           REVISED         -         A. SCHUETZE 09-15-16	STATE OF I Department of tr	LLINOIS ANSPORTATION	TRAFFIC CONTROL AND PROTECTION F           SIDE ROADS, INTERSECTIONS, AND DRIVEY           SCALE: NONE         SHEET 1         OF 1         SHEETS         STA.	OR         RTE.         SECTION         COUNTY         SHEET         NO.L           VAYS         330         14-00220-00-TL         COOK         85         66           TO STA.         ILLINOIS/FED. AID PROJECT         ILLINOIS/FED. AID PROJECT         IND. ILLINOIS/FED. AID PROJECT

FILE NAME =







### LANE REDUCTION TRANSITION

 $\mbox{\ensuremath{\mathbb H}}$  lane reduction arrows required at speeds of 45 mph or greater or when specified in plans.

LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOL ID SOL ID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
ULL & .4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
1 Î	SOL ID SOL ID SOL ID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERMISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
TH NALS USED FOR MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
2 (300) 5°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (0VER 45MPH (70 km/h))
VERSE 6'(1.8 m) DO)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"*3.6 SO. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SO. FT. (5.0 m <sup>2</sup> )
i.	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
	SOLID	WHITE	16.3 SF
	SOLID	WHITE	30.4 SF

All dimensions are in inches (millimeters) unless otherwise shown,

01	VE		F.AP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
MARKINGS			330	14-00220-00-TL	СООК	85	67	
٠.	MANNINGS			TC-13	CONTRACT	NO. 61	86	
5	STA.	TO STA.	TO STA. ILLINOIS FED. AID PROJECT					





### NOTES:

- 1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
  - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-IIOOR 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



FILE NAME =	USER NAME = footemj	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09		TRAF			PROTE
pw:\\ILØ84EBIDINTEG.111nois.gov:PWIDOT\Do	cuments\IDDT Offices\District I\Projects\Dist	5	REVISED - A. SCHUETZE 07-01-13	STATE OF ILLINOIS	104			ODEN
	PLOT SCALE = 50.0000 ' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION		(IO R	EMAIN	OPEN
Default	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -	landana kakana na nananakaka kutanaka - na nananana katana na kakana na katana na katana na katana na katana na	SCALE: NONE	SHEET 1	OF 1	SHEETS

TOTAL SHEE SHEETS NO. SECTION COUNTY CTION AT TURN BAYS 14-00220-00-TL 330 COOK 85 68 TO TRAFFIC) CONTRACT NO. 61E86 TC-14 STA. TO STA. ILLINOIS FED. AID PROJECT



			F.AP. RTE.	F.AP. SECTION		TOTAL	SHEET NO.
3	LETTERS A	LETTERS AND SYMBOLS	330	330 14-00220-00-TL		85	69
_			TC-16 CONTRACT NO. 61E86				
	STA.	TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



FILE NAME =	USER NAME = geglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97						
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	An EDIAL N INFORMATION				
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION					
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07	See advantage of the set of th	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS			

DAD I SIGN		F.AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		330	14-00220-00-TL	соок	85	70			
			NO. 61	86					
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" × 5.0"

### NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07				F.AP.	SECTION	COUNTY	TOTAL	SHEET		
c:\pw_work\pwidot\gaglianobt\d0108315\to	26.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					330	14-00220-00-TL	соок	85	71
	PLOT SCALE = 50.000 // ID. CHECKED - REVISED -		REVISED -	DEPARTMENT OF TRANSPORTATION						TC-26	CONTRACT NO. 61E		61E86
	PLOT DATE = 12/13/2012	DATE -	REVISED -	י איז האישיות המשעירה איז	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. RC	AD DIST. NO. 1 ILLINOIS FED	AID PROJECT		











FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED -	MGFC	REVISED	-			CROSS SEC	FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	MGFC	REVISED	-		LEE ST - MANNHEIM RD AND FOREST AVENUE           SCALE         AS NOTED         SHEET NO. 1         OF 14         SHEETS         STA         18+00         TO STA         20+17.12			330	14-00220-00-TL	соок	85	72
	PLOT SCALE = 1" = .1667'	CHECKED -	KLB	REVISED	-	DEPARTMENT OF TRANSPORTATION						CONTRACT	<b>#</b> 61	.86
	PLOT DATE = 9/30/2019 3:24 PM	DATE -		REVISED	-						ILLINOIS FED. A	ND PROJECT		












FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			CROSS SEC
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS		
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION		I - MANNHEIM RD A
	PLOT DATE = 9/30/2019 3:24 PM	DATE -	REVISED -		SCALE: AS NOTED	SHEET NO. 2 OF 14 SHEETS

**STA.** 20+50 **TO STA.** 22+00

ILLINOIS FED. AID PROJECT













FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		CROSS SECT	IONS	FAP.	SECTION	COUNTY	TOTAL	SHEET
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS			330	14-00220-00-TL	СООК	85	74
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE ST - MANNHEIM RD AN	ID FOREST AVENUE			CONTRACT	# 61	E86
	PLOT DATE = 9/30/2019 3:25 PM	DATE -	REVISED -		SCALE: AS NOTED SHEET NO. 3 OF 14 SHEETS	STA. 22+37.48 TO STA. 24+00		ILLINOIS FED. A	ID PROJECT		
											-











FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			CROSS SECT
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS		
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEES	- Mannheim RD ai
	PLOT DATE = 9/30/2019 3:25 PM	DATE -	REVISED -		SCALE: AS NOTED	SHEET NO. 4 OF 14 SHEETS

14-00220-00-TL ND FOREST AVENUE CONTRACT #: 61E86 **STA.** 24+50 **TO STA.** 26+00 ILLINOIS FED 













FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		CROSS SEC
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS	
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE ST - MANNHEIM RD AI
	PLOT DATE = 9/30/2019 3:25 PM	DATE -	REVISED -		SCALE: AS NOTED SHEET NO. 5 OF 14 SHEETS













FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			CROSS SECT
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS		
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE SI	- MANNHEIM RU Ar
	PLOT DATE = 9/30/2019 3:26 PM	DATE -	REVISED -		SCALE: AS NOTED	SHEET NO. 6 OF 14 SHEETS

**STA.** 28+23.55 **TO STA.** 29+50

ILLINOIS FE 











FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			CROSS SECT
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS		
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION		- MANNHEIM RU AN
	PLOT DATE = 9/30/2019 3:26 PM	DATE -	REVISED -		SCALE: AS NOTED	SHEET NO. 7 OF 14 SHEETS



**STA.** 30+00 **TO STA.** 30+87

ILLINOIS FED. AID PROJECT













FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		CROSS SEC
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS	
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION	LEE SI - MANNHEIM RD A
	PLOT DATE = 9/30/2019 3:26 PM	DATE -	REVISED -		SCALE: AS NOTED SHEET NO. 8 OF 14 SHEETS
		-			

 STA
 31+00
 TO STA
 32+50
 ILLINOIS
 FED. AID
 PROJECT











FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -			
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS		
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION		- MANNFIEIM RD /
	PLOT DATE = 9/30/2019 3:27 PM	DATE -	REVISED -		SCALE: AS NOTED	SHEET NO. 9 OF 14 SHEETS

GRAPHIC SCALE ( IN FEET ) H. 1"= 10 ft. V. 1"= 5 ft.

**STA.** 33+00 **TO STA.** 35+00 ILLINOIS FED. AID PROJECT













FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		CROSS SECTIONS	FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS	LEE ST - MANNHEIM RD AND FOREST AVENUE		14-00220-00-TL	соок	85	81
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT #	<b>€ 61</b> E	86
	PLOT DATE = 9/30/2019 3:27 PM	DATE -	REVISED -		SCALE: AS NOTED SHEET NO. 10 OF 14 SHEETS STA. 10+50 TO STA. 12+00		ILLINOIS FED. A	AID PROJECT		









655┌

650

645

640

635<sup>L</sup>











FILE NAME = 4816.200-sht-xsec.dwg USER I	R NAME = MARK COBB	DESIGNED - MGFC	REVISED -		CROSS SECTIONS	FAP. RTE	SECTION	COUNTY	SHEETS	SHEET NO.
	T 00115 47 4007	DRAWN - MGFC	REVISED -	STATE OF ILLINUIS DEDARTMENT OF TRANSPORTATION	LEE ST - MANNHEIM RD AND FOREST AVENUE	330	14-00220-00-TL	соок	85	82
PLOT C	T DATE = 9/30/2019 3:30 PM	DATE -	revised - Revised -	DEPARTMENT OF TRANSPORTATION	SCALE AS NOTED SHEET NO. 11 OF 14 SHEETS STA 12+50 TO STA 14+00		ILLINOIS FED. A	CONTRACT :	<b>#</b> 6'	E86



FILL: 0.00 SF

GRAPHIC SCALE ( IN FEET ) H. 1"= 10 ft. V. 1"= 5 ft.













FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		CROSS SECTIONS LEE ST - MANNHEIM RD AND FOREST AVENUE		SECTION	COUNTY	SHEETS	SHEET
		DRAWN - MGFC	REVISED -	STATE OF ILLINOIS			14-00220-00-TL	соок	85	83
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	<b>r#</b> 61	
	PLOT DATE = 9/30/2019 3:30 PM	DATE -	REVISED -		SCALE: AS NOTED SHEET NO. 12 OF 14 SHEETS STA. 14+30.94 TO STA. 15+75.39		ILLINOIS FED. AI	D PROJECT		



GRA	.PHI	C SC	ALE
10		o i	5 10
	( D)	arataen )	
H. 1"=	10 ft.	V. 1"=	= 5 ft.















FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED -	MGFC	REVISED -	STATE OF ILLINOIS	CROSS SECTIONS			FAP.	SECTION	COUNTY	TOTAL SHEETS	SHEET
		DRAWN -	MGFC	REVISED -		LEE ST - MANNHEIM RD AND FOREST AVENUE			330	14-00220-00-TL	соок	85	84
	PLOT SCALE = 1" = .1667'	CHECKED -	KLB	REVISED -	DEPARTMENT OF TRANSPORTATION			ND FOREST AVENUE			CONTRACT #	#; 61E	86
	PLOT DATE = 9/30/2019 3:30 PM	DATE -		REVISED -		SCALE: AS NOTED	SHEET NO. 13 OF 14 SHEETS	<b>STA.</b> 16+00 <b>TO STA.</b> 17+50		ILLINOIS FED. AI	) PROJECT		





FILE NAME = 4816.200-sht-xsec.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -		CROSS SECTIONS	FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MGFC	REVISED -	DEPARTMENT OF TRANSPORTATION		330	14-00220-00-TL	соок	85	85
	PLOT SCALE = 1" = .1667'	CHECKED - KLB	REVISED -		LEE ST - MANNHEIM ND AND FOREST AVENUE			CONTRACT	# 61	86
	PLOT DATE = 9/30/2019 3:31 PM	DATE -	REVISED -		SCALE: AS NOTED SHEET NO. 14 OF 14 SHEETS STA. 18+00 TO STA. 18+50		ILLINOIS FED. AI	FED. AID PROJECT		

