*580 + 6 = 586 TOTAL SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS*	SHEET NO.
190	1517R-1(13)	COOK	580	1
	ILLINOIS			60X56

FOR INDEX OF SHEETS, SEE SHEET NO. 3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.I. ROUTE 90 /F.A.I. ROUTE 190
AT CUMBERLAND AVENUE (CUMBERLAND FLYOVER)
SECTION 1517R–1(13)
PROJECT ACNHPP-0090(401)

BRIDGE (NEW), NEW CONSTRUCTION, RECONSTRUCTION, RESURFACING LIGHTING, RETAINING WALL, SIGN MAINTENANCE, SIGNING (NEW), WATER MAIN

COOK COUNTY

C–91–133–14

D–91–133–14

LOCATION OF SECTION INDICATED THUS: –

PROJECT LOCATED IN THE CITY OF CHICAGO

TRAFFIC DATA

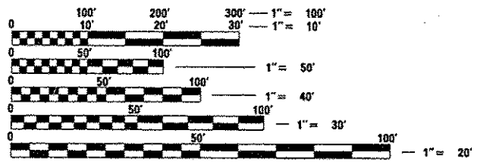
	ADT 2011 / 2040	SPEED DESIGNED / POSTED
I–90	213,380 / 245,000	60 / 55
I–190 EB	29,300 / 38,000	55 / 55
CUMBERLAND FLYOVER	/ 9,440	40 /
EBCD ROADWAY		35–50 / 35–45

RETAINING WALLS

RETAINING WALL 2 (FLYOVER RAMP)
NW78.70R,EB(R)
STA. 15+85.00 TO STA. 16+29.58, RIGHT | FLYOVER

RETAINING WALL 3 (FLYOVER RAMP)
NW78.80R,EB(R)
STA. 25+40.24 TO STA. 28+70.24, LEFT | FLYOVER

RETAINING WALL 4 (FLYOVER RAMP)
NW78.90R,EB(R)
STA. 25+40.24 TO STA. 30+80.24, RIGHT | FLYOVER



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123 OR 811
DIGGER – CHICAGO UTILITY ALERT NETWORK
1–312–744–7000

DISTRICT 1 – DESIGN/CONSULTANT SERVICES SECTION
SERIN KELLER (847)705–4556

CONTRACT NO. 60X56

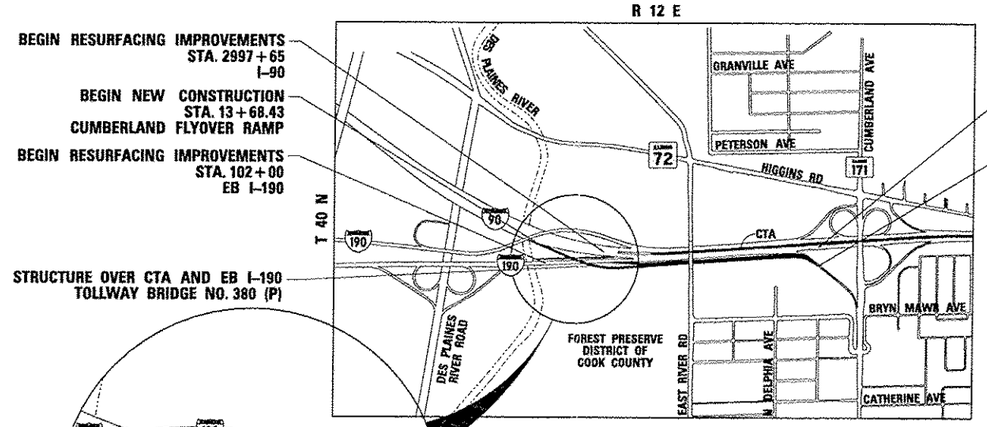
⚠ REV. 9-1-16

BEGIN RESURFACING IMPROVEMENTS
STA. 2997+65
I–90

BEGIN NEW CONSTRUCTION
STA. 13+68.43
CUMBERLAND FLYOVER RAMP

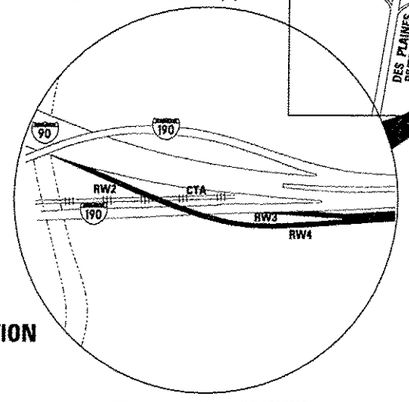
BEGIN RESURFACING IMPROVEMENTS
STA. 102+00
EB I–190

STRUCTURE OVER CTA AND EB I–190
TOLLWAY BRIDGE NO. 380 (P)



END RESURFACING IMPROVEMENTS
STA. 3032+00
I–90

END RECONSTRUCTION IMPROVEMENTS
STA. 528+19
I–190 EB CD ROADWAY



RETAINING WALL LOCATIONS

LOCATION MAP

N.T.S.

			FEET	MILE
New Construction:				
Ramp (I–90)	13+68.43	38+25.86	2457.43	0.465
Roadway (I–190 EBCD)	506+60.15	521+00.00	1439.85	0.273
Resurfacing				
Roadway (I–90)	2997+65.00	3032+00.00	3435.00	0.651
Roadway (I–190)	102+00.00	103+00.00	100.00	0.019
Reconstruction				
Roadway (I–190)	103+00.00	115+00.00	1200.00	0.227
Ramp (SB Cumberland)	521+00.00	528+19.00	719.00	0.136
		GROSS =	9351.28	1.771
		NET =	9351.28	1.771

HNTB
ONE SOUTH WACKER DRIVE
SUITE 900
CHICAGO, IL 60606
(312) 930–9119
ILLINOIS PROFESSIONAL DESIGN FIRM
REGISTRATION NO. 184.001306

FOR SIGNATURES, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED April 4 20 16
John Fortmann Jr
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Aug 12 20 16
Maureen M. Addis P.E. for
ENGINEER OF DESIGN AND ENVIRONMENT
Aug 12 20 16
Omer Osman P.E. for
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER
2	SIGNATURE SHEET
3	INDEX OF SHEETS AND HIGHWAY STANDARDS
4	GENERAL NOTES
5	HMA MIXTURE REQUIREMENTS
6 - 31	SUMMARY OF QUANTITIES
32 - 38	TYPICAL SECTIONS
39 - 48	SCHEDULE OF QUANTITIES
49 - 53	ALIGNMENT, TIES & BENCHMARKS
54 - 57	ROADWAY REMOVAL PLANS
58 - 64	ROADWAY PLANS AND PROFILES
65 - 66	ROADWAY JOINTING PLANS
67 - 72	ROADWAY DETAILS
73	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - NOTES
74	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGING SEQUENCE
75 - 80	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - TYPICAL SECTIONS
81 - 85	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - PRE STAGE
□ 86 - 91	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 1
92 - 97	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 2
98 - 103	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 3
104 - 107	TEMPORARY INFORMATION SIGNS
108 - 113	EROSION AND SEDIMENT CONTROL PLANS
114 - 117	EXISTING UTILITY PLANS
118 - 121	EXISTING DRAINAGE PLANS
122 - 127	DRAINAGE PLAN AND PROFILES
128 - 131	DRAINAGE SCHEDULES
132 - 135	DRAINAGE DETAILS
136 - 144	WATER MAIN PLANS
145 - 149	PAVEMENT MARKING PLANS
150 - 154	EXISTING SIGNING PLANS
155 - 159	PROPOSED SIGNING PLANS
160 - 161	SIGNING SCHEDULE OF QUANTITIES
162 - 173	SIGN PANEL DETAILS
174 - 177	TOLLWAY SIGN PANEL DETAILS
178	GROUND MOUNTED SIGN INSTALLATION SCHEDULE
179 - 181	OVERHEAD SIGN PANEL LAYOUT
* 182 - 200	OVERHEAD SIGN STRUCTURE PLANS
201 - 211	OVERHEAD SIGN STRUCTURE PLANS: I-190 MP 0.8
212 - 215	LANDSCAPING PLANS
216 - 247	LIGHTING PLANS
248 - 296	ITS PLANS
297 - 305	BORING LAYOUT PLAN AND PROFILES
306 - 321	BORING LOGS
322 - 384	STRUCTURE PLANS - CUMBERLAND FLYOVER TOLLWAY (BRIDGE #380)
385 - 415	STRUCTURE PLANS - CUMBERLAND FLYOVER RETAINING WALLS
** 416 - 450	DISTRICT ONE DETAILS
451 - 452	CROSS-SECTIONS - KEY MAP
453 - 457	CROSS-SECTIONS - FLYOVER RAMP
458 - 479	CROSS-SECTIONS - EB I-190
480 - 498	CROSS-SECTIONS - EB CD
499 - 580	TOLLWAY STANDARD DRAWINGS

* INCLUDES 191A & 193A.

** INCLUDES 431A - 431C.

□ INCLUDES 86A. ⚠

IDOT HIGHWAY STANDARDS

STD. NO.	TITLE
000001 - 06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001 - 02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001 - 07	TEMPORARY EROSION CONTROL SYSTEMS
482001 - 02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001 - 03	NAME PLATE FOR BRIDGES
542301 - 03	PRECAST REINFORCED CONCRETE END SECTION
601001 - 05	PIPE UNDERDRAINS
601101 - 02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602001 - 02	CATCH BASIN TYPE A
602301 - 04	INLET- TYPE A
602306 - 03	INLET- TYPE B
602401 - 03	MANHOLE TYPE A
602406 - 07	MANHOLE TYPE A 6' DIAMETER
602411 - 05	MANHOLE TYPE A 7' DIAMETER
602416 - 05	MANHOLE TYPE A 8' DIAMETER
602421 - 05	MANHOLE TYPE A 9' DIAMETER
602701 - 02	MANHOLE STEPS
604001 - 04	FRAME AND LIDS TYPE 1
604036 - 03	GRATE TYPE 8
604071 - 05	FRAME AND GRATE TYPE 20
606101 - 05	TYPE A GUTTER (INLET, OUTLET AND ENTRANCE)
630001 - 10	STEEL PLATE BEAM GUARDRAIL
630201 - 06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301 - 06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011 - 09	TRAFFIC BARRIER TERMINAL, TYPE 2
631026 - 06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031 - 14	TRAFFIC BARRIER TERMINAL, TYPE 6
631033 - 06	TRAFFIC BARRIER TERMINAL, TYPE 6B
635001 - 02	DELINEATORS
637001 - 05	CONCRETE BARRIER, DOUBLE FACE, 32 IN. HEIGHT
642001 - 02	SHOULDER RUMBLE STRIPS, 16 IN.
664001 - 02	CHAIN LINK FENCE
701101 - 05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106 - 02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400 - 08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411 - 09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701428 - 01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446 - 07	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701901 - 05	TRAFFIC CONTROL DEVICES
704001 - 08	TEMPORARY CONCRETE BARRIER
720001 - 01	SIGN PANEL MOUNTING DETAILS
720006 - 04	SIGN PANEL ERECTION DETAILS
720011 - 01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720021 - 02	SIGN PANELS - EXTRUDED ALUMINUM TYPE
725001	OBJECT AND TERMINAL MARKERS
728001 - 01	TELESCOPING STEEL SIGN SUPPORT
729001 - 01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGN MARKERS)
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
731001 - 01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001 - 05	TYPICAL PAVEMENT MARKINGS
781001 - 04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001 - 01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001 - 03	HANDHOLES
814006 - 02	DOUBLE HANDHOLES
878001 - 10	CONCRETE FOUNDATION DETAILS

DISTRICT 1 DETAILS

STD. NO.	TITLE
BD-03	OUTLET FOR CONCRETE CURB AND GUTTER
BD-07	STORM SEWER CONNECTION TO EXISTING SEWER
BD-08	FRAMES AND LIDS ADJUSTMENT WITH MILLING; AND FRAMES AND LIDS ADJUSTMENTS WITHOUT MILLING
BD-27	CONCRETE BARRIER TRANSITION, GENERAL DETAILS AND CONCRETE BARRIER BASE
BD-29	CONC. BARRIER WALL & PIER SLOPE WALL PROTECTION DETAIL
BD-32	BUTT JOINTS AND HMA TAPER
BD-34	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.
BD-37	MANHOLE TYPE A 7 FT. DIAMETER
BD-51	BENCHING CONSTRUCTION DETAIL
BE-205	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
BE-301	LIGHT POLE FOUNDATION - 40 TO 47 1/2' M.H. 15' BOLT CIRCLE
BE-400	LIGHT POLE, ALUMINIUM, 40 TO 47 1/2' M.H. 10' MAST ARM
BE-410	DAVIT LIGHT POLE 47⅟₂ -6⅟₂ (14.478m) MOUNTING HEIGHT
BE-505	HIGH MAST LIGHT TOWER 120 FT TO 140 FT
BE-506	HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS - SHEET A
BE-705	COMMUNICATIONS VAULT, COMPOSITE CONCRETE
BE-800	TEMPORARY LIGHT POLE DETAILS
BE-801	TEMPORARY AERIAL CABLE INSTALLATION
BE-900	SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS
TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
TC-11	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
TC-12	MULTI-LANE FREEWAY PAVEMENT MARKING (2 SHEETS)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKING
TC-16	PAVEMENT MARKINGS LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-17	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-27	MILE POST MARKERS - GORE SIGNS - MAJOR GUIDE SIGN LAYOUT - ARROWS

TOLLWAY STANDARDS

STD. NO.	TITLE
A5-03	J.P.C. PAVEMENT 12" OR LESS
A7-02	PAVEMENT JOINTS
A15-02	JOINTING PLAN EXIT RAMP TERMINAL
B1-07	GUTTER AND CURB DETAILS
B3-06	TYPE G2/G3 GUTTER TRANSITION AT TRAFFIC BARRIER TERMINAL, TYPE T6
B5-03	CONCRETE FLUME DETAILS
B6-06	HEADWALL TYPE III
B8-05	CATCH BASINS TYPES G AND TYPE G MODIFIED, FRAMES AND GRATES TYPE G-2, G-3 & G-3 MODIFIED
B10-08	SLOPED HEADWALLS TYPE III DETAILS
B24-04	PIPE UNDERDRAINS
C1-08	GALVANIZED STEEL PLATE BEAM GUARDRAIL
C3-06	SINGLE FACE REINFORCED CONCRETE BARRIER
C6-08	SHOULDER WIDENING FOR TRAFFIC TERMINAL TYPE T1 (SPECIAL)
C7-07	TRAFFIC BARRIER TERMINAL, TYPE T2
C9-07	TRAFFIC BARRIER TERMINAL TYPE T6
C10-07	TRAFFIC BARRIER TERMINAL, TYPE T6B
C11-06	TRAFFIC BARRIER TERMINAL, TYPE T10
C12-05	SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINAL, TYPE T1-A (SPECIAL)
D4-05	DELINEATORS
D5-06	PERMANENT PAVEMENT MARKING
D6-06	PAVEMENT MARKING AND SHOULDER RUMBLE STRIP DETAILS
D8-02	RAISED PAVEMENT LANE MARKER
E1-05	CONSTRUCTION SIGNS
E2-06	LANE CLOSURE DETAILS
E3-05	SHOULDER CLOSURE DETAILS
E6-02	CONTRACTOR ACCESS TO WORK AREA
F4-07	OVERHEAD SIGN STRUCTURE CANTILEVER TYPE STRUCTURE DETAILS
H1-05	LIGHT STANDARD FOUNDATION
H2-04	LIGHT STANDARD DETAILS
H3-03	BRIDGE CONDUIT DETAILS

⚠ REV. 9-1-16

G-02

HNTB

USER NAME	DESIGNED - MMK	REVISED -
PLOT SCALE	DRAWN - MMK	REVISED -
PLOT DATE = 6/1/2016	CHECKED - LLS	REVISED -
	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE: | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	3

CONTRACT NO. 60X56

ILLINOIS | FED. AID PROJECT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	PERCENT AIR VOIDS @ NDES	THICKNESS	QMP
PAVEMENT RESURFACING: I-90 / I-190			
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA 12.5 N80	3.5% @ 80 GYR	2"	QCP
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, SMA 12.5 N80	3.5% @ 80 GYR	2"	QCP
PAVEMENT WIDENING: I-190			
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA 12.5 N80	3.5% @ 80 GYR	2"	QCP
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, SMA 12.5 N80	3.5% @ 80 GYR	2"	QCP
HMA BASE COURSE (HMA BINDER IL-19mm)	4% @ 70 GYR	7-1/2"	QCP
RECONSTRUCTION: I-190			
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA 12.5 N80	3.5% @ 80 GYR	2"	QCP
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, SMA 12.5 N80	3.5% @ 80 GYR	2"	QCP
HMA BASE COURSE (HMA BINDER IL-19mm)	4% @ 70 GYR	7-1/2"	QCP
NEW CONSTRUCTION: I-190 EBCD ROAD			
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA 12.5 N80	3.5% @ 80 GYR	2"	QCP
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, SMA 12.5 N80	3.5% @ 80 GYR	2"	QCP
HMA BASE COURSE (HMA BINDER IL-19mm)	4% @ 70 GYR	7-1/2"	QCP
SHOULDER RECONSTRUCTION / CONSTRUCTION: I-90			
HOT-MIX ASPHALT SHOULDERS, 13 3/4"			
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 GYR	2"	QCP
HMA SHOULDER (HMA BINDER IL-19mm)	4% @ 70 GYR	11-3/4"	QCP
SHOULDER RECONSTRUCTION / CONSTRUCTION: I-190			
HOT-MIX ASPHALT SHOULDERS, 11 1/2"			
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 GYR	2"	QCP
HMA SHOULDER (HMA BINDER IL-19mm)	4% @ 70 GYR	9-1/2"	QCP
SHOULDER CONSTRUCTION: I-190 EBCD ROAD			
HOT-MIX ASPHALT SHOULDERS, 11 1/2"			
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 GYR	2"	QCP
HMA SHOULDER (HMA BINDER IL-19mm)	4% @ 70 GYR	9-1/2"	QCP
SHOULDER RESURFACING: I-90 / I-190			
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 GYR	2"	QCP
HMA BINDER COURSE, IL 19.0, N70	4% @ 70 GYR	2-1/4"	QCP
TEMPORARY PAVEMENT			
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 GYR	2"	QC/QA
TEMP PVMT (INTERSTATE) (HMA BINDER IL-19mm)	4% @ 70 GYR	9-1/2"	QCP
QMP DESIGNATION: QUALITY CONTROL / QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)			

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/INCH THICKNESS.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXTURES 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 DISTRICT ONE SPECIAL PROVISIONS.
3. PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS 8¾" THICK.
4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXUTRE.
5. PLACE STRIP REFLECTIVE CRACK CONTROL TREATMENT OVER THE SMA BINDER MIX AT ALL LONGITUDINAL JOINTS BEFORE SMA SURFACE PAVING OPERATIONS. ONLY FOR RESURFACING ON I-90 EB AND I-190 EB.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS - TOLLWAY

LOCATION	OPERATIONS	PAY ITEM	DESIGNATION	UNIT	AC TYPE	VOIDS	MAX. RAP %	MAX. RAS %	TYPICAL THICKNESS	MIX TYPE	NOTES
AS SHOWN ON THE DRAWINGS	CONSTRUCTION OF NEW WMA SHOULDERS	JI482104	WARM-MIX ASPHALT SHOULDERS (6 IN)	SQ YD	PG 64-22/ 58-22/ 58-28	4% @ 70 GYR	10% RAP, 30% CAT. 2 FRAP, & 35% CAT. 1 FRAP	5	1-3/4"	WARM MIX ASPHALT SURFACE COURSE, MIX D, N70	SEE RAP AND RAS SPECIAL PROVISIONS FOR ASPHALT GRADE REQUIREMENTS AND MAXIMUM BINDER REPLACEMENT PERCENTAGES.
					PG 64-22/ 58-22/ 58-28	4% / 3% @ 50 GYR	30% RAP, 40% CAT. 2 FRAP, & 45% CAT. 1 FRAP	5	4-1/4"	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N50	SEE RAP AND RAS SPECIAL PROVISIONS FOR ASPHALT GRADE REQUIREMENTS AND MAXIMUM BINDER REPLACEMENT PERCENTAGES.
AS SHOWN ON THE DRAWINGS	WMA STABILIZED SUBBASE UNDER NEW PCC PAVEMENT	JI312022	STABILIZED SUBBASE- WMA, 3"	SQ YD	PG 58-22/ 58-28	2% @ 50 GYR	30% RAP, 40% CAT. 2 FRAP, & 45% CAT. 1 FRAP	5	3"	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N50	SEE RAP AND RAS SPECIAL PROVISIONS FOR ASPHALT GRADE REQUIREMENTS AND MAXIMUM BINDER REPLACEMENT PERCENTAGES.

- • THE CLASSIFICATIONS FOR FRACTIONATED RECLAIMED ASPHALT PAVEMENT (FRAP) AREDEFINED WITHIN THE SPECIAL PROVISION FOR RECLAIMED ASPHALT PAVEMENT.
- •• QUANTITIES ASPHALT MIXES ARE BASED ON THE DENSITY VALUE OF 112.0 LBS/SQ YD/IN.

				CONSTRUCTION CODE								
				90% FED 10% IDOT	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	90% FED 10% IDOT	100% TOLLWAY	90% FED 10% IDOT
				A	B	C	D	E	F	G	H	I
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0003	0003	0010	0040	0040	0040	0021	0021	0043
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	843	843								
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	224	224								
20101000	TEMPORARY FENCE	FOOT	545	545								
20200100	EARTH EXCAVATION	CU YD	11,184	11,184	⚠1							
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	4,733	4,733								
20400800	FURNISHED EXCAVATION	CU YD	7,586	7,586								
20800150	TRENCH BACKFILL	CU YD	20,784	20,726	58							
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	28,541	28,541								
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	37,570	37,570	⚠1							
25000210	SEEDING, CLASS 2A	ACRE	7.8	7.8								
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	699	699								
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	699	699								
25100115	MULCH, METHOD 2	ACRE	2.0	2.0								
25100630	EROSION CONTROL BLANKET	SQ YD	34,399	34,399								

• SPECIALITY ITEM

⚠1 REV. 9-1-16

A ROADWAY AND DRAINAGE (IDOT)
B ROADWAY AND DRAINAGE (TOLLWAY)
C BRIDGE NO. 380 (TOLLWAY)
D RETAINING WALL 2 (TOLLWAY)
E RETAINING WALL 3 (TOLLWAY)
F RETAINING WALL 4 (TOLLWAY)
G LIGHTING AND ITS (IDOT)
H LIGHTING (TOLLWAY)
I WATER MAIN (IDOT)

S00-01

HNTB

USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.00 ' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 6/3/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 1 OF 26 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	6
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\projects\...\sco-01.dgn
6/3/2016 mkosir

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
				90% FED 10% IDOT	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	90% FED 10% IDOT	100% TOLLWAY	90% FED 10% IDOT
				A	B	C	D	E	F	G	H	I
				0003	0003	0010	0040	0040	0040	0021	0021	0043
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	711	711								
28000305	TEMPORARY DITCH CHECKS	FOOT	168	168								
28000400	PERIMETER EROSION BARRIER	FOOT	5,326	5,326								
28000510	INLET FILTERS	EACH	124	124								
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	34,399	34,399								
28100101	STONE RIPRAP, CLASS A1	SQ YD	7	4	3							
28200200	FILTER FABRIC	SQ YD	7	4	3							
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	6,905	6,905	⚠							
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	28,541	28,541								
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2,154	2,154								
35501314	HOT-MIX ASPHALT BASE COURSE, 7 1/2"	SQ YD	15,495	15,495								
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	48,387	47,213	1,174							
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	65	65								
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	591	591								

• SPECIALITY ITEM

⚠ REV. 9-1-16

A ROADWAY AND DRAINAGE (IDOT)
B ROADWAY AND DRAINAGE (TOLLWAY)
C BRIDGE NO. 380 (TOLLWAY)
D RETAINING WALL 2 (TOLLWAY)
E RETAINING WALL 3 (TOLLWAY)
F RETAINING WALL 4 (TOLLWAY)
G LIGHTING (IDOT)
H LIGHTING (TOLLWAY)
I WATER MAIN (IDOT)

S00-02

HNTB

USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.00 ' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 6/3/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 2 OF 26 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	7
		CONTRACT NO. 60X56		
	ILLINOIS FED. AID PROJECT			

6/3/2016 mkosir

FILE NAME = c:\projects\...\sum-500-02.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FED 10% IDOT A 0003 URBAN	100% TOLLWAY B 0003 URBAN	100% TOLLWAY C 0010 URBAN	100% TOLLWAY D 0040 URBAN	100% TOLLWAY E 0040 URBAN	100% TOLLWAY F 0040 URBAN	90% FED 10% IDOT G 0021 URBAN	100% TOLLWAY H 0021 URBAN	90% FED 10% IDOT I 0043 URBAN
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	800	800								
42001300	PROTECTIVE COAT	SQ YD	2,609	2,609								
44000100	PAVEMENT REMOVAL	SQ YD	8,312	8,269	43							
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	2,108	2,108	⚠1							
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	25,320	25,320								
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	310	310								
44001980	CONCRETE BARRIER REMOVAL	FOOT	392	392								
44004250	PAVED SHOULDER REMOVAL	SQ YD	10,298	10,184	114							
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	2,843	2,843								
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	1,943	1,943								
48203043	HOT-MIX ASPHALT SHOULDERS, 11 1/2"	SQ YD	7,486	7,486								
48203052	HOT-MIX ASPHALT SHOULDERS, 13 3/4"	SQ YD	3,576	3,576								
50157300	PROTECTIVE SHIELD	SQ YD	2,228			2,228						
50200100	STRUCTURE EXCAVATION	CU YD	3,539			1,027	194	573	1,745			
50300225	CONCRETE STRUCTURES	CU YD	3,255.0			1,166.0	128.0	673.0	1,288.0			

• SPECIALITY ITEM

⚠1 REV. 9-1-16

A ROADWAY AND DRAINAGE (IDOT)
B ROADWAY AND DRAINAGE (TOLLWAY)
C BRIDGE NO. 380 (TOLLWAY)
D RETAINING WALL 2 (TOLLWAY)
E RETAINING WALL 3 (TOLLWAY)
F RETAINING WALL 4 (TOLLWAY)
G LIGHTING (IDOT)
H LIGHTING (TOLLWAY)
I WATER MAIN (IDOT)

S00-03

HNTB

USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.00 ' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 6/3/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 3 OF 26 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	8
		CONTRACT NO. 60X56		
	ILLINOIS FED. AID PROJECT			

FILE NAME = c:\projects\sht-S00-03.dgn
6/3/2016 mkosir

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	A	B	C	D	E	F	G	H	I
				CONSTRUCTION CODE								
				90% FED 10% IDOT	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	90% FED 10% IDOT	100% TOLLWAY	90% FED 10% IDOT
				0003	0003	0010	0040	0040	0040	0021	0021	0043
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
50300255	CONCRETE SUPERSTRUCTURE	CU YD	415.4			236.4	9.0	64.0	106.0			
50300260	BRIDGE DECK GROOVING	SQ YD	3,361			3,361						
50300300	PROTECTIVE COAT	SQ YD	5,215			4,370	41	305	499			
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1			1						
50500505	STUD SHEAR CONNECTORS	EACH	15,987			15,987						
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	742,751		11,698	466,840	16,404	88,286	159,523			
50800515	BAR SPLICERS	EACH	82			82						
51200956	FURNISHING METAL SHELL PILES 12" X 0.179"	FOOT	17,811				911	7,094	9,806			
51201400	FURNISHING STEEL PILES HP10X42	FOOT	725			725						
51201800	FURNISHING STEEL PILES HP14X73	FOOT	9,595			9,595						
51202305	DRIVING PILES	FOOT	28,131			10,320	911	7,094	9,806			
51203200	TEST PILE METAL SHELLS	EACH	7				1	3	3			
51203400	TEST PILE STEEL HP10X42	EACH	2			2						
51203800	TEST PILE STEEL HP14X73	EACH	5			5						
51204650	PILE SHOES	EACH	12			12						

* SPECIALITY ITEM

△ REV. 9-1-16

A ROADWAY AND DRAINAGE (IDOT)
B ROADWAY AND DRAINAGE (TOLLWAY)
C BRIDGE NO. 380 (TOLLWAY)
D RETAINING WALL 2 (TOLLWAY)
E RETAINING WALL 3 (TOLLWAY)
F RETAINING WALL 4 (TOLLWAY)
G LIGHTING AND ITS (IDOT)
H LIGHTING (TOLLWAY)
I WATER MAIN (IDOT)

REV.
SQQ-04

HNTB

USER NAME = mkosir
PLOT SCALE = 1.00 '/ in.
PLOT DATE = 6/3/2016

DESIGNED -
DRAWN - MMK
CHECKED - LLS
DATE - 05/06/2016

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 4 OF 26 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	9

CONTRACT NO. 60X56

ILLINOIS FED. AID PROJECT

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
					90% FED 10% IDOT	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	90% FED 10% IDOT	100% TOLLWAY	90% FED 10% IDOT
					A	B	C	D	E	F	G	H	I
					0003	0003	0010	0040	0040	0040	0021	0021	0043
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	5,393	5,393	⚠1							
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4,619	4,619								
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	3								
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	⚠1							
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4								
•	72000200	SIGN PANEL - TYPE 2	SQ FT	64	64								
•	72000300	SIGN PANEL - TYPE 3	SQ FT	3,965	3,965								
•	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	7	7								
•	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	9	9								
•	72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	67	67								
•	72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	1,274	1,274								
•	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1								
•	72400720	RELOCATE SIGN PANEL - TYPE 2	SQ FT	24	24								
•	72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	10,007	10,007								

• SPECIALITY ITEM

⚠1 REV. 9-1-16

A ROADWAY AND DRAINAGE (IDOT)
B ROADWAY AND DRAINAGE (TOLLWAY)
C BRIDGE NO. 380 (TOLLWAY)
D RETAINING WALL 2 (TOLLWAY)
E RETAINING WALL 3 (TOLLWAY)
F RETAINING WALL 4 (TOLLWAY)
G LIGHTING (IDOT)
H LIGHTING (TOLLWAY)
I WATER MAIN (IDOT)

SOQ-10

HNTB

USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.00 '/ in.	CHECKED - LLS	REVISED -
PLOT DATE = 6/3/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 10 OF 26 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	15
		CONTRACT NO. 60X56		
	ILLINOIS FED. AID PROJECT			

FILE NAME = ...\D60X56-sht-SOQ-10.dgn
6/3/2016 mkosir

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
					90% FED 10% IDOT	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	90% FED 10% IDOT	100% TOLLWAY	90% FED 10% IDOT
					A	B	C	D	E	F	G	H	I
					0003	0003	0010	0040	0040	0040	0021	0021	0043
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
•	78200530	BARRIER WALL MARKERS, TYPE C	EACH	925	925								
•	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	6								
	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	35,318	35,318								
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	8,743	8,743								
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	260	260								
•	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1							1		
•	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3,967							3,967		
•	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	576							576		
•	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,024							1,024		
	81028730	UNDERGROUND CONDUIT, COILABLE NONMETTALIC CONDUIT, 1-1/4" DIA.	FOOT	27							27		
•	81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	280							280		
•	81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	120							120		
*	81200270	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	150							150		
•	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	4							4		
•	81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	1							1		
•	81300800	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	1							1		

• SPECIALITY ITEM

⚠1 REV. 9-1-16

A ROADWAY AND DRAINAGE (IDOT)
B ROADWAY AND DRAINAGE (TOLLWAY)
C BRIDGE NO. 380 (TOLLWAY)
D RETAINING WALL 2 (TOLLWAY)
E RETAINING WALL 3 (TOLLWAY)
F RETAINING WALL 4 (TOLLWAY)
G LIGHTING AND ITS (IDOT)
H LIGHTING (TOLLWAY)
I WATER MAIN (IDOT)

S00-13

HNTB

USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.00 '/ in.	CHECKED - LLS	REVISED -
PLOT DATE = 6/3/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 13 OF 26 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	18
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\projects\60x56-s00-13.dgn
mkosir
6/3/2016

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	A 90% FED 10% IDOT 0003 URBAN	B 100% TOLLWAY 0003 URBAN	C 100% TOLLWAY 0010 URBAN	D 100% TOLLWAY 0040 URBAN	E 100% TOLLWAY 0040 URBAN	F 100% TOLLWAY 0040 URBAN	G 90% FED 10% IDOT 0021 URBAN	H 100% TOLLWAY 0021 URBAN	I 90% FED 10% IDOT 0043 URBAN
•	81400200	HEAVY-DUTY HANDHOLE	EACH	16							16		
•	81603080	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	4,480							4,480		
•	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,120							1,120		
•	81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	333							333		
•	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	7,149							7,149		
•	81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2,033							2,033 △1		
*	81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	630							630		
•	81800230	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	2,053							2,053		
•	81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	7,485							7,485 △1		
•	81800400	AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE	FOOT	132								132	
•	82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	5							5		
•	82105600	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT	EACH	84							84		
•	82107100	UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4							4		
•	83050825	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	5							5		
•	83504500	LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	6							6		

• SPECIALITY ITEM

△1 REV. 9-1-16

A ROADWAY AND DRAINAGE (IDOT)
B ROADWAY AND DRAINAGE (TOLLWAY)
C BRIDGE NO. 380 (TOLLWAY)
D RETAINING WALL 2 (TOLLWAY)
E RETAINING WALL 3 (TOLLWAY)
F RETAINING WALL 4 (TOLLWAY)
G LIGHTING AND ITS (IDOT)
H LIGHTING (TOLLWAY)
I WATER MAIN (IDOT)

HNTB

USER NAME = mkoair
PLOT SCALE = 1.00 '/ in.
PLOT DATE = 6/3/2016

DESIGNED -
DRAWN - MMK
CHECKED - LLS
DATE - 05/06/2016

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 14 OF 26 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	19

CONTRACT NO. 60X56

ILLINOIS FED. AID PROJECT

SQQ-14

6/3/2016
mkoair

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
					90% FED 10% IDOT	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	90% FED 10% IDOT	100% TOLLWAY	90% FED 10% IDOT
					A	B	C	D	E	F	G	H	I
					0003	0003	0010	0040	0040	0040	0021	0021	0043
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
•	83504700	LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 12	EACH	1							1		
•	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	40							40		
•	83700350	LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	210							210		
•	84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	25							25		
•	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	7							7		
•	84200804	REMOVAL OF POLE FOUNDATION	EACH	7							7		
•	84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1							1		
•	87200400	SPAN WIRE	FOOT	3,752							3,752		
*	87300748	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 100 PAIR	FOOT	210							210	⚠1	
•	~~87301727~~	~~ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 19 GC~~	~~FOOT~~	~~924~~	~~924~~								
•	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4							4		
•	87900205	DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	9							9		
•	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,576							2,576		
•	89502380	REMOVE EXISTING HANDHOLE	EACH	4							4		
•	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5							5		

• SPECIALITY ITEM

⚠1 REV. 9-1-16

A ROADWAY AND DRAINAGE (IDOT)
B ROADWAY AND DRAINAGE (TOLLWAY)
C BRIDGE NO. 380 (TOLLWAY)
D RETAINING WALL 2 (TOLLWAY)
E RETAINING WALL 3 (TOLLWAY)
F RETAINING WALL 4 (TOLLWAY)
G LIGHTING AND ITS (IDOT)
H LIGHTING (TOLLWAY)
I WATER MAIN (IDOT)

S00-15

HNTB

USER NAME = mkapur	DESIGNED -	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.00 '/ in.	CHECKED - LLS	REVISED -
PLOT DATE = 6/3/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 15 OF 26 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	20
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		

FILE NAME = c:\projects\60x56-sht-S00-15.dgn
mkapur
6/3/2016

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
					90% FED 10% IDOT	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	100% TOLLWAY	90% FED 10% IDOT	100% TOLLWAY	90% FED 10% IDOT
					A	B	C	D	E	F	G	H	I
					0003	0003	0010	0040	0040	0040	0021	0021	0043
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
•	X0323917	CABINET, MODEL 334	EACH	4							4		
•	X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	3							3		
*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	400							400	⚠1	
•	X0325003	REMOVE EXISTING VALVE AND VAULT	EACH	1									1
•	X0325040	FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	14,199							14,199		
	X0325405	FILL EXISTING STORM SEWERS	CU YD	892	892								
•	X0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	4							4		
•	X0326266	ETHERNET SWITCH	EACH	7							7		
•	X0326465	MODIFICATION OF EXISTING VIDEO DISTRIBUTION SYSTEM	L SUM	1							1		
•	X0326945	CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT	EACH	7							7		
•	X0327114	RADAR VEHICLE SENSING SYSTEM	EACH	1							1		
•	X0327117	ATMS SYSTEM INTEGRATION	L SUM	1							1		
•	X0327216	CLOSED CIRCUIT TELEVISION CAMERA	EACH	7							7		
•	X0327261	CABINET HOUSING EQUIPMENT, TYPE IV	EACH	1							1		
•	X0327303	REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE	EACH	1							1		

• SPECIALITY ITEM

⚠1 REV. 9-1-16

A ROADWAY AND DRAINAGE (IDOT)
B ROADWAY AND DRAINAGE (TOLLWAY)
C BRIDGE NO. 380 (TOLLWAY)
D RETAINING WALL 2 (TOLLWAY)
E RETAINING WALL 3 (TOLLWAY)
F RETAINING WALL 4 (TOLLWAY)
G LIGHTING AND ITS (IDOT)
H LIGHTING (TOLLWAY)
I WATER MAIN (IDOT)

S00-18

HNTB

USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.00 ' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 6/3/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 18 OF 26 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	23
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		

6/3/2016 mkosir

FILE NAME = D:\162265-sss-S03-18.dgn

TEMPORARY PAVEMENT MARKING SCHEDULE OF QUANTITIES

		78005100 EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	78005110 EPOXY PAVEMENT MARKING - LINE 4"	78005120 EPOXY PAVEMENT MARKING - LINE 5"	78005140 EPOXY PAVEMENT MARKING - LINE 8"	78005150 EPOXY PAVEMENT MARKING - LINE 12"	X7030025 WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	X7030030 WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	X7030035 WET REFLECTIVE TEMPORARY TAPE TYPE III, 5 INCH	X7030045 WET REFLECTIVE TEMPORARY TAPE TYPE III, 8 INCH	X7030050 WET REFLECTIVE TEMPORARY TAPE TYPE III, 12 INCH
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
I-90	PRE-STAGE										
	STAGE 1	73		1914	4441	644	36		320	799	
	STAGE 2				906	436				583	
	STAGE 3				2470					152	50
EB I-190	PRE-STAGE							8340	4635	3960	
	STAGE 1										
	STAGE 2	146	4517	674	2104			884	135	275	
	STAGE 3	169	7206	1135	5975			3946	526	275	
EBCD	PRE-STAGE			950			113	4931	1006	2847	50
	STAGE 1							9270	1338		
	STAGE 2										
	STAGE 3										
TOTALS		388	11723	4674	15896	1080	149	27371	7960	8891	100

TEMPORARY ROADWAY SCHEDULE OF QUANTITIES

		20200100 EARTH EXCAVATION	31101200 SUBBASE GRANULAR MATERIAL, TYPE B 4"	40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	44000100 PAVEMENT REMOVAL	70400100 TEMPORARY CONCRETE BARRIER	70400200 RELOCATE TEMPORARY CONCRETE BARRIER	70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	70600260 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	78200530 BARRIER WALL MARKERS, TYPE C	Z0062456 TEMPORARY PAVEMENT	X7040125 PINNING TEMPORARY CONCRETE BARRIER
		CU YD	SQ YD	TON	SQ YD	FOOT	FOOT	EACH	EACH	EACH	EACH	SQ YD	EACH
I-90	PRE-STAGE			275									
	STAGE 1												315
	STAGE 2												
	STAGE 3						1575				127		246
EB I-190	PRE-STAGE	294	1540		2154	1450		1			116	1551	345
	STAGE 1					3330		1			266		453
	STAGE 2						2413			2	192		285
	STAGE 3									1			
EBCD	PRE-STAGE	259	614			186		1			15	603	24
	STAGE 1					325					104		
	STAGE 2						331		1		26		
	STAGE 3												
TOTALS		553	2154	275	2154	5291	4319	3	1	3	846	2154	1668

SCH-07

HNTB

USER NAME = ekirby | DESIGNED - MMK | REVISED - 8/26/2016 MJK
PLOT SCALE = 12.0000 '/ ft. | DRAWN - MMK | REVISED -
PLOT DATE = 8/29/2016 | CHECKED - LLS | REVISED -
DATE - 05/06/2016 | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
TEMPORARY

SCALE: | SHEET 7 OF 10 SHEETS | STA. TO STA.

F.A.I. RTE. 190 | SECTION 1517R-1(13) | COUNTY COOK | TOTAL SHEETS 580 | SHEET NO. 45

CONTRACT NO. 60X56

ILLINOIS FED. AID PROJECT

EBCD - EARTHWORK SCHEDULE - Pre-Stage

LOCATION		EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
STA. TO STA.		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
				15%					
503+25.00	503+50.00	0	0	0	0	0	0	0	0
503+50.00	504+00.00	0	0	0	0	0	0	0	0
504+00.00	504+50.00	0	0	0	0	0	0	0	0
504+50.00	504+85.20	132	0	112	132	-20	0	11	30
504+85.20	505+00.00	134	0	114	134	-20	0	10	25
505+00.00	505+50.00	270	0	230	270	-41	0	32	82
505+50.00	506+00.00	80	0	68	80	-12	0	15	77
506+00.00	506+50.00	148	0	126	148	-22	0	0	76
506+50.00	507+00.00	98	0	83	98	-15	0	33	96
507+00.00	507+50.00	25	0	21	25	-4	0	33	58
SUB-TOTAL		887	0	754	887	-133	0	134	444

EB I-190 - EARTHWORK SCHEDULE - STAGE 1 EB

LOCATION		EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
STA. TO STA.		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
				15%					
103+00.00	103+50.00	68	0	58	7	51	0	32	36
103+50.00	104+00.00	100	0	85	2	83	0	33	36
104+00.00	104+50.00	151	0	128	0	128	0	33	36
104+50.00	105+00.00	215	0	183	0	183	0	36	38
105+00.00	105+50.00	291	0	247	0	247	0	38	40
105+50.00	106+00.00	326	0	277	0	277	0	37	39
106+00.00	106+30.82	205	0	174	0	174	0	33	35
106+30.82	106+50.00	141	0	120	0	120	0	27	29
106+50.00	107+00.00	400	0	340	0	340	0	71	75
107+00.00	107+50.00	387	0	329	2	327	0	70	74
107+50.00	108+00.00	341	0	290	10	280	0	69	74
108+00.00	108+53.05	325	0	276	30	246	0	73	80
108+53.05	109+00.00	264	0	224	42	182	0	63	73
109+00.00	109+50.00	251	0	213	58	155	0	64	78
109+50.00	110+00.00	171	0	145	115	30	0	64	78
110+00.00	110+50.00	113	0	96	149	-53	0	63	76
110+50.00	110+75.00	63	0	54	57	-3	0	27	38
110+75.00	110+99.92	68	0	58	56	2	0	27	38
110+99.92	111+50.00	91	61	77	143	-66	35	62	77
111+50.00	112+00.00	45	110	38	128	-90	69	61	77
112+00.00	112+50.00	49	87	42	199	-157	70	41	77
112+50.00	113+00.00	36	69	31	692	-661	75	18	77
113+00.00	113+50.00	15	65	13	1,008	-995	79	16	76
113+50.00	114+00.00	12	75	10	837	-827	80	15	73
114+00.00	114+50.00	19	42	16	684	-668	40	14	72
114+50.00	115+00.00	25	0	21	571	-550	0	14	74
115+00.00	115+50.00	22	0	19	454	-435	0	14	73
115+50.00	116+00.00	21	0	18	370	-352	0	13	73
116+00.00	116+50.00	21	0	18	345	-327	0	12	74
116+50.00	117+00.00	23	153	20	188	-166	285	13	73
117+00.00	117+50.00	24	322	20	39	-19	564	13	73
117+50.00	118+00.00	27	361	23	46	-23	563	14	73
118+00.00	118+50.00	25	394	21	27	-6	639	12	71
118+50.00	119+00.00	21	397	18	4	14	703	10	68
119+00.00	119+25.00	9	191	8	24	-16	327	6	35
119+25.00	119+50.00	9	214	8	40	-32	335	7	36
119+50.00	120+00.00	22	480	19	70	-51	709	17	70
120+00.00	120+50.00	25	431	21	82	-61	678	18	70
120+50.00	121+00.00	26	384	22	91	-69	664	19	69
121+00.00	121+50.00	26	389	22	91	-69	662	19	68
SUB-TOTAL		4,473	4,225	3,802	6,661	-2,859	6,577	1,288	2,504

EBCD - EARTHWORK SCHEDULE - STAGE 1

LOCATION		EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
STA. TO STA.		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
				15%					
503+25.00	503+50.00	25	0	21	150	-129	0	13	36
503+50.00	504+00.00	92	0	78	179	-101	0	25	72
504+00.00	504+50.00	102	0	87	136	-49	0	24	71
504+50.00	504+85.20	26	0	22	63	-41	0	8	24
504+85.20	505+00.00	0	0	0	0	0	0	0	0
505+00.00	505+50.00	0	0	0	0	0	0	0	0
505+50.00	506+00.00	0	0	0	0	0	0	0	0
506+00.00	506+50.00	0	0	0	0	0	0	0	0
506+50.00	507+00.00	0	0	0	0	0	0	0	0
507+00.00	507+50.00	30	0	26	167	-142	0	16	37
507+50.00	508+00.00	53	0	45	327	-282	0	29	72
508+00.00	508+50.00	42	0	36	303	-267	0	26	69
508+50.00	509+00.00	44	0	37	244	-207	0	28	70
509+00.00	509+50.00	46	0	39	273	-234	0	28	71
509+50.00	510+00.00	45	0	38	330	-292	0	28	71
510+00.00	510+50.00	51	0	43	252	-209	0	28	70
510+50.00	510+92.16	38	0	32	155	-123	0	22	60
510+92.16	511+00.00	7	0	6	27	-21	0	4	11
511+00.00	511+50.00	51	0	43	176	-133	0	26	67
511+50.00	512+00.00	52	0	44	163	-119	0	25	66
512+00.00	512+50.00	58	0	49	134	-85	0	25	65
512+50.00	513+00.00	32	0	27	67	-40	0	12	32
SUB-TOTAL		794	0	675	3,146	-2,471	0	367	964

LOCATION		EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
STA. TO STA.		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
				15%					
10+00.00	10+50.00	0	0	0	0	0	0	0	0
10+50.00	10+75.00	0	0	0	0	0	0	0	0
10+75.00	11+00.00	0	0	0	0	0	0	0	0
11+00.00	11+25.00	0	0	0	0	0	0	0	0
11+25.00	11+50.00	0	0	0	0	0	0	0	0
11+50.00	11+75.00	0	0	0	0	0	0	0	0
11+75.00	12+00.00	0	0	0	0	0	0	0	0
12+00.00	12+25.00	0	0	0	0	0	0	0	0
12+25.00	12+50.00	0	0	0	0	0	0	0	0
12+50.00	12+75.00	0	0	0	0	0	0	0	0
12+75.00	13+68.43	82	0	70	1	69	0	3	4
13+68.43	13+75.00	11	0	9	0	9	0	1	2
13+75.00	14+00.00	26	0	22	2	20	0	6	16
14+00.00	14+25.00	7	0	6	17	-11	0	15	33
14+25.00	14+50.00	2	0	2	74	-72	0	25	45
14+50.00	14+75.00	1	0	1	152	-151	0	28	47
14+75.00	15+00.00	2	0	2	228	-226	0	27	47
15+00.00	15+25.00	3	0	3	310	-307	0	31	49
15+25.00	15+40.00	3	0	3	213	-210	0	18	30
15+40.00	15+50.00	1	0	1	156	-155	0	12	20
15+50.00	15+75.00	9	0	8	502	-494	0	37	56
15+75.00	15+85.05	7	0	6	239	-233	0	17	24
15+85.05	16+00.00	6	0	5	359	-354	0	21	32
16+00.00	16+25.00	0	0	0	611	-611	0	27	47
16+25.00	16+29.08	0	0	0	103	-103	0	4	7
16+29.08	16+61.08	0	0	0	691	-691	0	29	54
SUB-TOTAL		160	0	136	3,658	-3,522	0	301	513

mkirby
8/26/2016
FILE NAME = ...\DESIGN\EB\EB_sht_schedule-07.dgn

HNTB

USER NAME = mkirby	DESIGNED - MMK	REVISED - ⚠1 8/26/2016 MJK	
	DRAWN - MMK	REVISED -	
PLOT SCALE = 1.2282 ' / in.	CHECKED - LLS	REVISED -	
PLOT DATE = 8/26/2016	DATE - 05/06/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
EARTHWORK EB 1-190

SCALE: | SHEET 8 OF 10 SHEETS | STA. | TO STA.

⚠1 ENTIRE SHEET REVISED **SCH-08**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1039	COOK	580	46
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		

EB I-190 - EARTHWORK SCHEDULE STAGE 2 EB									
LOCATION		EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
STA. TO STA.		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
				15%					
103+00.00	103+50.00	35	0	30	5	25	0	9	11
103+50.00	104+00.00	46	0	39	3	36	0	10	12
104+00.00	104+50.00	70	0	60	1	59	0	12	12
104+50.00	105+00.00	94	0	80	1	79	0	12	11
105+00.00	105+50.00	115	0	98	8	90	0	11	10
105+50.00	106+00.00	138	0	117	13	104	0	15	17
106+00.00	106+30.82	92	0	78	12	66	0	17	17
106+30.82	106+50.00	61	0	52	6	46	0	12	12
106+50.00	107+00.00	168	0	143	3	140	0	26	32
107+00.00	107+50.00	166	0	141	7	134	0	26	31
107+50.00	108+00.00	152	0	129	18	111	0	26	31
108+00.00	108+53.05	146	0	124	33	91	0	29	35
108+53.05	109+00.00	113	0	96	44	52	0	26	32
109+00.00	109+50.00	104	0	88	35	53	0	31	33
109+50.00	110+00.00	85	0	72	10	62	0	36	32
110+00.00	110+50.00	80	0	68	10	58	0	36	30
110+50.00	110+75.00	42	0	36	10	26	0	18	14
110+75.00	110+99.92	38	0	32	17	15	0	18	14
110+99.92	111+50.00	44	58	37	27	10	28	36	30
111+50.00	112+00.00	9	107	8	7	1	56	26	21
112+00.00	112+50.00	5	90	4	0	4	54	16	11
112+50.00	113+00.00	4	76	3	7	-4	53	17	14
113+00.00	113+50.00	0	69	0	16	-16	54	27	26
113+50.00	114+00.00	0	71	0	11	-11	55	34	34
114+00.00	114+50.00	16	37	14	4	10	28	26	29
114+50.00	115+00.00	31	0	26	3	23	0	19	24
115+00.00	115+50.00	30	0	26	1	25	0	15	21
115+50.00	116+00.00	31	0	26	0	26	0	12	17
116+00.00	116+50.00	27	0	23	5	18	0	15	8
116+50.00	117+00.00	12	0	10	30	-20	0	9	0
117+00.00	117+50.00	0	0	0	49	-49	0	0	0
117+50.00	118+00.00	0	0	0	118	-118	0	0	0
118+00.00	118+50.00	0	0	0	117	-117	0	0	0
118+50.00	119+00.00	0	0	0	45	-45	0	0	0
119+00.00	119+25.00	0	0	0	23	-23	0	0	0
119+25.00	119+50.00	0	0	0	23	-23	0	0	0
119+50.00	120+00.00	0	0	0	44	-44	0	0	0
120+00.00	120+50.00	0	0	0	43	-43	0	0	0
120+50.00	121+00.00	0	0	0	42	-42	0	0	0
121+00.00	121+50.00	0	0	0	41	-41	0	0	0
SUB-TOTAL		1,954	508	1,661	892	769	328	622	621

EBCD - EARTHWORK SCHEDULE - STAGE 2									
LOCATION		EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
STA. TO STA.		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
				15%					
503+25.00	503+50.00	0	0	0	0	0	0	0	0
503+50.00	504+00.00	0	0	0	0	0	0	0	0
504+00.00	504+50.00	0	0	0	0	0	0	0	0
504+50.00	504+85.20	0	0	0	0	0	0	0	0
504+85.20	505+00.00	0	0	0	0	0	0	0	0
505+00.00	505+50.00	0	0	0	0	0	0	0	0
505+50.00	506+00.00	0	0	0	0	0	0	0	0
506+00.00	506+50.00	0	0	0	0	0	0	0	0
506+50.00	507+00.00	0	0	0	0	0	0	0	0
507+00.00	507+50.00	0	0	0	0	0	0	0	0
507+50.00	508+00.00	0	0	0	0	0	0	0	0
508+00.00	508+50.00	0	0	0	0	0	0	0	0
508+50.00	509+00.00	0	0	0	0	0	0	0	0
509+00.00	509+50.00	0	0	0	0	0	0	0	0
509+50.00	510+00.00	0	0	0	0	0	0	0	0
510+00.00	510+50.00	0	0	0	0	0	0	0	0
510+50.00	510+92.16	0	0	0	0	0	0	0	0
510+92.16	511+00.00	0	0	0	0	0	0	0	0
511+00.00	511+50.00	0	0	0	0	0	0	0	0
511+50.00	512+00.00	0	0	0	0	0	0	0	0
512+00.00	512+50.00	0	0	0	0	0	0	0	0
512+50.00	513+00.00	10	0	9	62	-54	0	8	26
513+00.00	513+50.00	19	0	16	104	-88	0	13	51
513+50.00	514+00.00	32	0	27	74	-47	0	13	51
514+00.00	514+50.00	36	0	31	63	-32	0	14	52
514+50.00	515+00.00	27	0	23	61	-38	0	13	50
515+00.00	515+56.14	21	0	18	70	-52	0	14	58
515+56.14	516+00.00	17	0	14	57	-43	0	11	45
516+00.00	516+50.00	31	0	26	59	-33	0	13	49
516+50.00	517+00.00	72	0	61	32	29	0	9	44
517+00.00	517+50.00	86	0	73	24	49	0	4	39
517+50.00	518+00.00	60	0	51	41	10	0	4	38
518+00.00	518+50.00	47	0	40	54	-14	0	6	36
518+50.00	519+00.00	42	0	36	68	-32	0	7	36
519+00.00	519+50.00	47	0	40	71	-31	0	7	36
519+50.00	520+00.00	53	0	45	50	-5	0	9	33
520+00.00	520+17.10	18	0	15	8	7	0	3	11
520+17.10	520+50.00	23	0	20	16	4	0	5	18
520+50.00	521+00.00	25	0	21	31	-10	0	7	22
521+00.00	521+50.00	26	0	22	30	-8	0	10	24
521+50.00	522+00.00	28	0	24	31	-7	0	14	27
522+00.00	522+50.00	40	0	34	15	19	0	15	27
522+50.00	523+00.00	54	0	46	0	46	0	15	26
523+00.00	523+50.00	58	0	49	0	49	0	15	27
523+50.00	524+00.00	45	0	38	0	38	0	17	27
524+00.00	524+50.00	28	0	24	0	24	0	15	23
524+50.00	524+75.00	12	0	10	0	10	0	5	9
524+75.00	525+00.00	13	0	11	0	11	0	2	7
525+00.00	525+50.00	25	0	21	6	15	0	3	13
525+50.00	526+00.00	15	0	13	5	8	0	1	7
526+00.00	526+50.00	10	0	9	0	9	0	0	0
526+50.00	527+00.00	16	0	14	0	14	0	0	0
527+00.00	527+50.00	19	0	16	0	16	0	0	0
527+50.00	528+00.00	19	0	16	0	16	0	0	0
SUB-TOTAL		1,074	0	913	1,032	-119	0	272	912

HNTB

USER NAME = mkirby	DESIGNED -	REVISED - 8/26/2016 MJK
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 8/26/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
EARTHWORK – EBCD ROAD

SCALE: | SHEET 9 OF 10 SHEETS | STA. TO STA.

ENTIRE SHEET REVISED SCH-09

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	47

CONTRACT NO. 60X56
ILLINOIS FED. AID PROJECT

EBCD - EARTHWORK SCHEDULE - STAGE 3 EB

LOCATION		EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
STA. TO STA.		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
				15%					
503+25.00	503+50.00	0	0	0	0	0	0	0	0
503+50.00	504+00.00	0	0	0	0	0	0	0	0
504+00.00	504+50.00	0	0	0	0	0	0	0	0
504+50.00	504+85.20	0	0	0	0	0	0	0	0
504+85.20	505+00.00	0	0	0	0	0	0	0	0
505+00.00	505+50.00	0	0	0	0	0	0	0	0
505+50.00	506+00.00	0	0	0	0	0	0	0	0
506+00.00	506+50.00	0	0	0	0	0	0	0	0
506+50.00	507+00.00	0	0	0	0	0	0	0	0
507+00.00	507+50.00	0	0	0	0	0	0	0	0
507+50.00	508+00.00	0	0	0	0	0	0	0	0
508+00.00	508+50.00	0	0	0	0	0	0	0	0
508+50.00	509+00.00	0	0	0	0	0	0	0	0
509+00.00	509+50.00	0	0	0	0	0	0	0	0
509+50.00	510+00.00	0	0	0	0	0	0	0	0
510+00.00	510+50.00	0	0	0	0	0	0	0	0
510+50.00	510+92.16	0	0	0	0	0	0	0	0
510+92.16	511+00.00	0	0	0	0	0	0	0	0
511+00.00	511+50.00	0	0	0	0	0	0	0	0
511+50.00	512+00.00	0	0	0	0	0	0	0	0
512+00.00	512+50.00	0	0	0	0	0	0	0	0
512+50.00	513+00.00	19	0	16	0	16	0	0	2
513+00.00	513+50.00	39	0	33	0	33	0	0	5
513+50.00	514+00.00	39	0	33	0	33	0	0	4
514+00.00	514+50.00	36	0	31	0	31	0	0	4
514+50.00	515+00.00	35	0	30	0	30	0	0	3
515+00.00	515+56.14	39	0	33	0	33	0	0	2
515+56.14	516+00.00	29	0	25	0	25	0	0	1
516+00.00	516+50.00	31	0	26	0	26	0	0	0
516+50.00	517+00.00	29	0	25	0	25	0	0	0
517+00.00	517+50.00	28	0	24	0	24	0	0	0
517+50.00	518+00.00	32	0	27	0	27	0	0	0
518+00.00	518+50.00	35	0	30	0	30	0	0	0
518+50.00	519+00.00	37	0	31	0	31	0	0	0
519+00.00	519+50.00	38	0	32	0	32	0	0	0
519+50.00	520+00.00	39	0	33	0	33	0	0	0
520+00.00	520+17.10	14	0	12	0	12	0	0	0
520+17.10	520+50.00	28	0	24	0	24	0	0	0
520+50.00	521+00.00	43	0	37	0	37	0	0	0
521+00.00	521+50.00	52	0	44	0	44	0	0	0
521+50.00	522+00.00	61	0	52	0	52	0	0	0
522+00.00	522+50.00	63	0	54	0	54	0	0	0
522+50.00	523+00.00	67	0	57	0	57	0	0	0
523+00.00	523+50.00	55	0	47	12	35	0	5	13
523+50.00	524+00.00	33	0	28	140	-112	0	5	15
524+00.00	524+50.00	47	0	40	149	-109	0	24	36
524+50.00	524+75.00	31	0	26	13	13	0	27	35
524+75.00	525+00.00	67	0	57	8	49	0	34	42
525+00.00	525+50.00	121	0	103	18	85	0	47	58
525+50.00	526+00.00	24	0	20	6	14	0	8	11
526+00.00	526+50.00	18	0	15	0	15	0	0	1
526+50.00	527+00.00	19	0	16	0	16	0	0	0
527+00.00	527+50.00	21	0	18	0	18	0	0	0
527+50.00	528+00.00	20	0	17	0	17	0	0	0
SUB-TOTAL		**1,289**	**0**	**1,096**	**346**	**750**	**0**	**150**	**232**

CFP - EARTHWORK SCHEDULE - SUMMARY OF STAGES

STAGE	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
			15%					
Pre-Stage	887	0	754	887	-133	0	134	444
Stage 1	5,427	4,225	4,613	13,465	-8,852	6,577	1,956	3,981
Stage 2	3,028	508	2,574	1,924	650	328	894	1,533
Stage 3	1,289	0	1,096	346	750	0	150	232
TOTAL	**10,631**	**4,733**	**9,036**	**16,622**	**-7,586**	**6,905**	**3,134**	**6,190**

⚠ ENTIRE SHEET REVISED **SCH-10**

HNTB	USER NAME = mkirby	DESIGNED - MMK	REVISED - ⚠ 8/26/2016 MJK
		DRAWN - MMK	REVISED -
	PLOT SCALE = 1.0000 '/ in.	CHECKED - LLS	REVISED -
	PLOT DATE = 8/26/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
EARTHWORK – FLYOVER

SCALE: | SHEET 10 OF 10 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	48

CONTRACT NO. 60X56

ILLINOIS FED. AID PROJECT

FILE NAME = ...\0160456-sht-schedule-09.dgn
mkirby 8/26/2016

CONTRACTOR TO COORDINATE REMOVAL OF TEMPORARY CONCRETE BARRIER WITH THE ILLINOIS TOLLWAY UPON COMPLETION OF THE PROJECT

LIMIT OF REMOVALS
STA. 102+08.81, 272' LT
℄ EB190

STA. 102+35.61
288.7' LT. ℄ EB190

LIMIT OF REMOVALS
STA. 103+90.88, 245.5' LT
℄ EB190

WB I-90

EX ROW

WB I-190

MATCH LINE EX I-90
STA. 3001+19, REM-02

LIMIT OF REMOVALS
STA. 2997+65
℄ I-90

℄ I-90

EB I-90

STA 103+00.00
32.00' RT

℄ EB190

CONCRETE BARRIER REMOVAL
STA. 110+37 TO
STA. 113+07

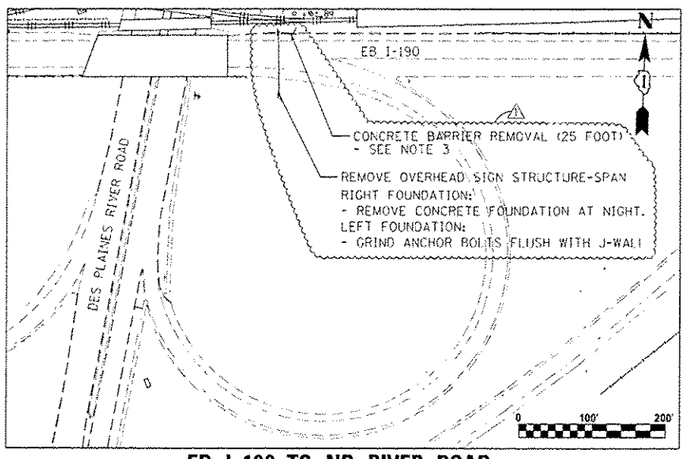
LIMIT OF REMOVALS
STA. 102+00
℄ EB190

EB I-190

EX ROW

FENCE REMOVAL
BEGIN STA. 105+50

MATCH LINE EB I-190
STA. 114+00, REM-02



EB I-190 TO NB RIVER ROAD

REMOVAL LEGEND

- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 4"
- HOT-MIX ASPHALT REMOVAL, VARIABLE DEPTH (JI440015)
- CONCRETE MEDIAN REMOVAL
- LINEAR ITEM REMOVAL
- ITEM REMOVAL

NOTES

1. SEE LIGHTING PLANS, DRAINAGE PLANS AND PAVEMENT MARKING AND SIGNING PLANS FOR ADDITIONAL REMOVALS NOT SHOWN ON THIS PLAN.
2. SEE REMOVAL SCHEDULE FOR RAISED REFLECTIVE PAVEMENT MARKER REMOVAL.
3. EXISTING STEEL RAILING ON TOP OF PARAPET SHALL BE REMOVED PRIOR TO REMOVAL OF BARRIER, STORED, AND REATTCHED ON NEW CONCRETE BARRIER TO THE SATISFACTION OF THE ENGINEER IN THE FIELD. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER REMOVAL.

0 50' 100'

REM-01

HNTB

USER NAME = mkirby	DESIGNED - MA	REVISED - ⚠ 8/26/2016 MJK
	DRAWN - MA	REVISED -
PLOT SCALE = 12.0000 ' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 8/30/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY REMOVAL PLAN

SCALE: 1" = 50' | SHEET 1 OF 4 SHEETS | STA. BOP TO STA. 3001+19

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	54
		CONTRACT NO. 60X56		
	ILLINOIS FED. AID PROJECT			

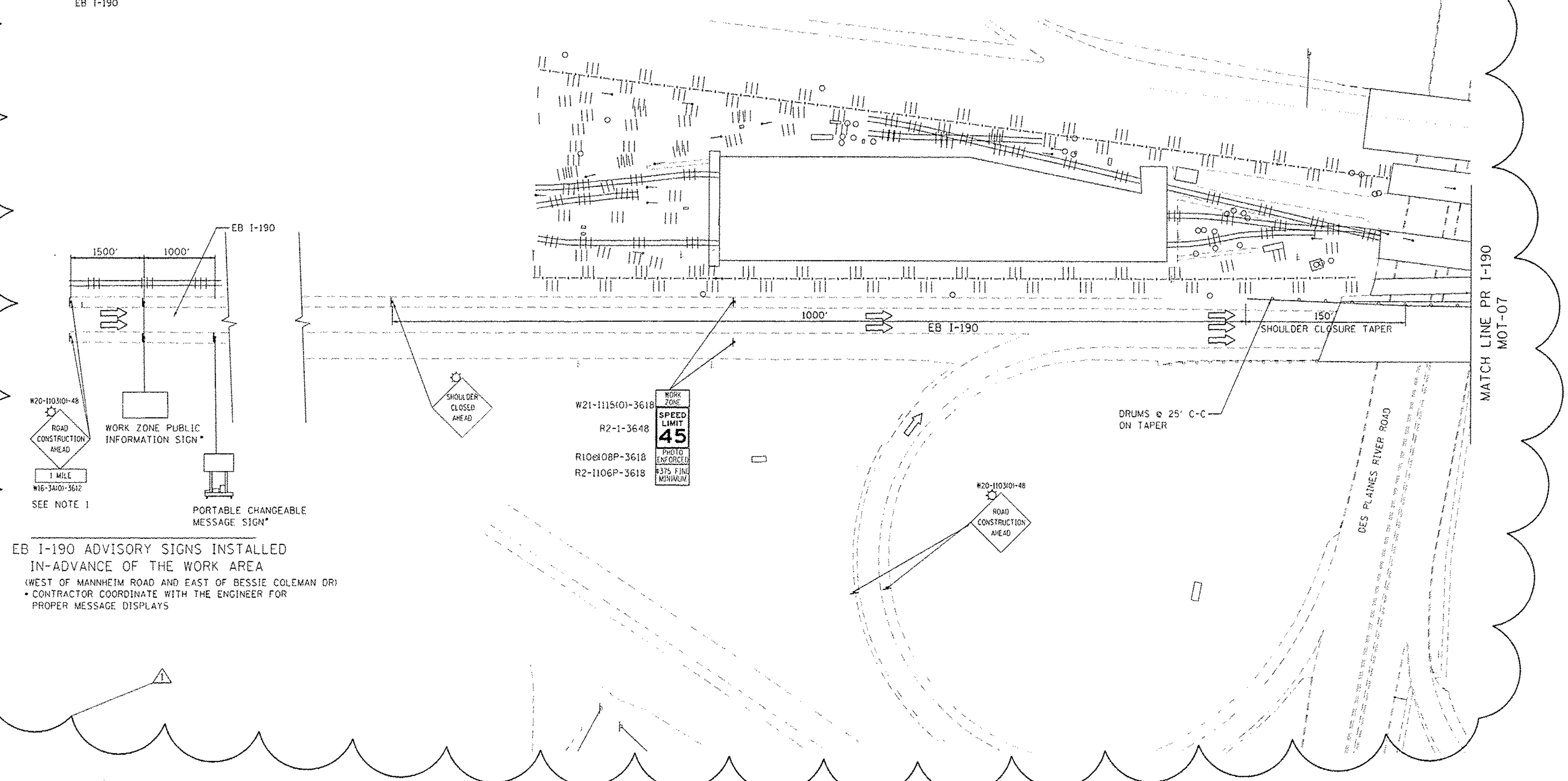
FILE NAME = c:\mkirby\56\mkirby.dgn

NOTES:

1) INSTALL ADVISORY SIGN AS SHOWN ON THIS PAGE AND ACCORDING TO STANDARD 701400 FOR ADDITIONAL INFORMATION.
2) CONSTRUCT OVERHEAD TRUSS LEFT FOUNDATION AT MP 0.8 UTILIZING THE TEMPORARY LANE CLOSURE DURING THE ALLOWABLE HOURS AS SPECIFIED IN KEEPING THE EXPRESSWAY OPEN TO TRAFFIC SPECIAL PROVISION
3) CLOSE EB I-190 INSIDE SHOULDER USING TEMPORARY CONCRETE BARRIER AS SHOWN ON THE PLANS DURING PEAK HOURS DURING THIS STAGE.
4) INSTALL "ROAD CONSTRUCTION AHEAD" SIGNS ALONG RAMPS FROM MANNHEIM RD TO EB I-190

MAINTENANCE OF TRAFFIC LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- EX. TRAFFIC DIRECTION
- PR. TRAFFIC DIRECTION
- BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT
- TYPE II BARRICADES OR DRUMS W/ TYPE C STEADY BURN MONO DIRECTIONAL LIGHT
- TYPE B MONO-DIRECTIONAL FLASHING LIGHT
- ARROW BOARD
- VERTICAL PANEL
- PROPOSED SIGN
- TEMPORARY CONCRETE BARRIER
- RAMP CLOSED
- (1) PVT MK - LINE 5" WHITE
- (2) PVT MK - LINE 4" YELLOW
- (3) PVT MK - LINE 4" WHITE
- (4) PVT MK - LINE 6" WHITE
- (5) PVT MK - LINE 12"
- (6) PVT MK - LTRS & SYMB
- (7) PVT MK - LINE 24" WHITE
- (8) PVT MK - LINE 8" WHITE
- (T) TEMP PVT MK (SEE SHT G-03)
- (W) WET REF TEM TAPE T3 (SEE SHT G-03)



EB I-190 ADVISORY SIGNS INSTALLED IN-ADVANCE OF THE WORK AREA
(WEST OF MANNHEIM ROAD AND EAST OF BESSIE COLEMAN DR)
* CONTRACTOR COORDINATE WITH THE ENGINEER FOR PROPER MESSAGE DISPLAYS

SHEET ADDED

MOT-06A

exp U.S. Services Inc.
Chicago, IL
BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

USER NAME = mohammad	DESIGNED - MM	REVISED (1) 8/26/2016 MM	
	DRAWN - MM	REVISED -	
PLOT SCALE = 1.0000 ' / in.	CHECKED - KA	REVISED -	
PLOT DATE = 8/26/2016	DATE - 05/06/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 1 EB

SCALE: | SHEET OF SHEETS | STA. 100+00.00 TO STA. 113+31.00

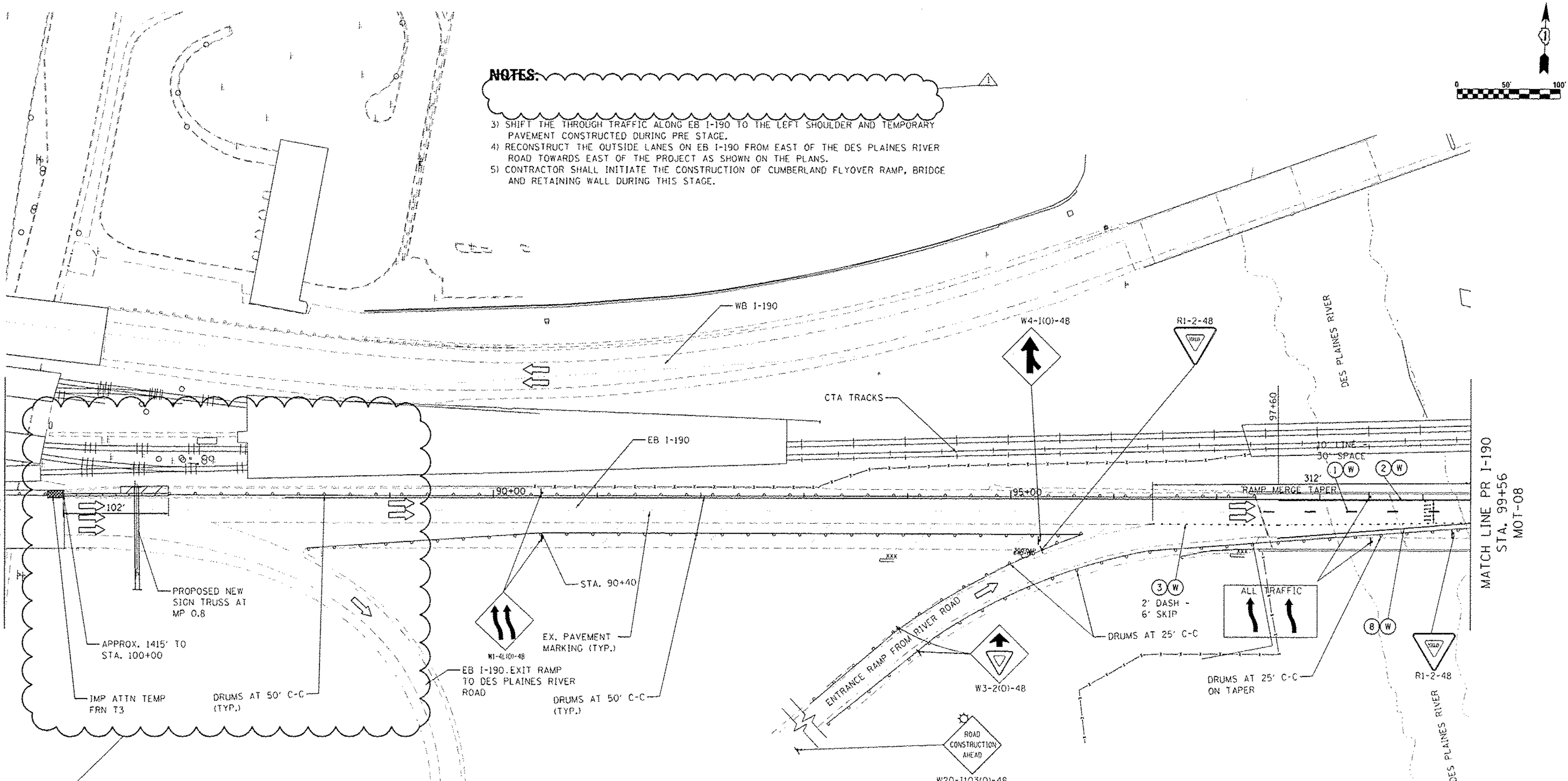
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(3)	COOK	580	86A

CONTRACT NO. 60X56

ILLINOIS FED. AID PROJECT

NOTES:

3) SHIFT THE THROUGH TRAFFIC ALONG EB I-190 TO THE LEFT SHOULDER AND TEMPORARY PAVEMENT CONSTRUCTED DURING PRE STAGE.
4) RECONSTRUCT THE OUTSIDE LANES ON EB I-190 FROM EAST OF THE DES PLAINES RIVER ROAD TOWARDS EAST OF THE PROJECT AS SHOWN ON THE PLANS.
5) CONTRACTOR SHALL INITIATE THE CONSTRUCTION OF CUMBERLAND FLYOVER RAMP, BRIDGE AND RETAINING WALL DURING THIS STAGE.



MAINTENANCE OF TRAFFIC LEGEND

WORK AREA	BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT	ARROW BOARD	(1) PVT MK - LINE 5" WHITE
TEMPORARY PAVEMENT	TYPE II BARRICADES OR DRUMS W/ TYPE C STEADY BURN MONO DIRECTIONAL LIGHT	VERTICAL PANEL	(2) PVT MK - LINE 4" YELLOW
EX. TRAFFIC DIRECTION	TYPE B MONO-DIRECTIONAL FLASHING LIGHT	PROPOSED SIGN	(3) PVT MK - LINE 4" WHITE
PR. TRAFFIC DIRECTION		TEMPORARY CONCRETE BARRIER	(4) PVT MK - LINE 6" WHITE
		RAMP CLOSED	(5) PVT MK - LINE 12"
			(6) PVT MK - LTRS & SYMB
			(7) PVT MK - LINE 24" WHITE
			(8) PVT MK - LINE 8" WHITE
			(T) TEMP PVT MK (SEE SHT G-03)
			(W) WET REF TEM TAPE T3 (SEE SHT G-03)

MOT-07

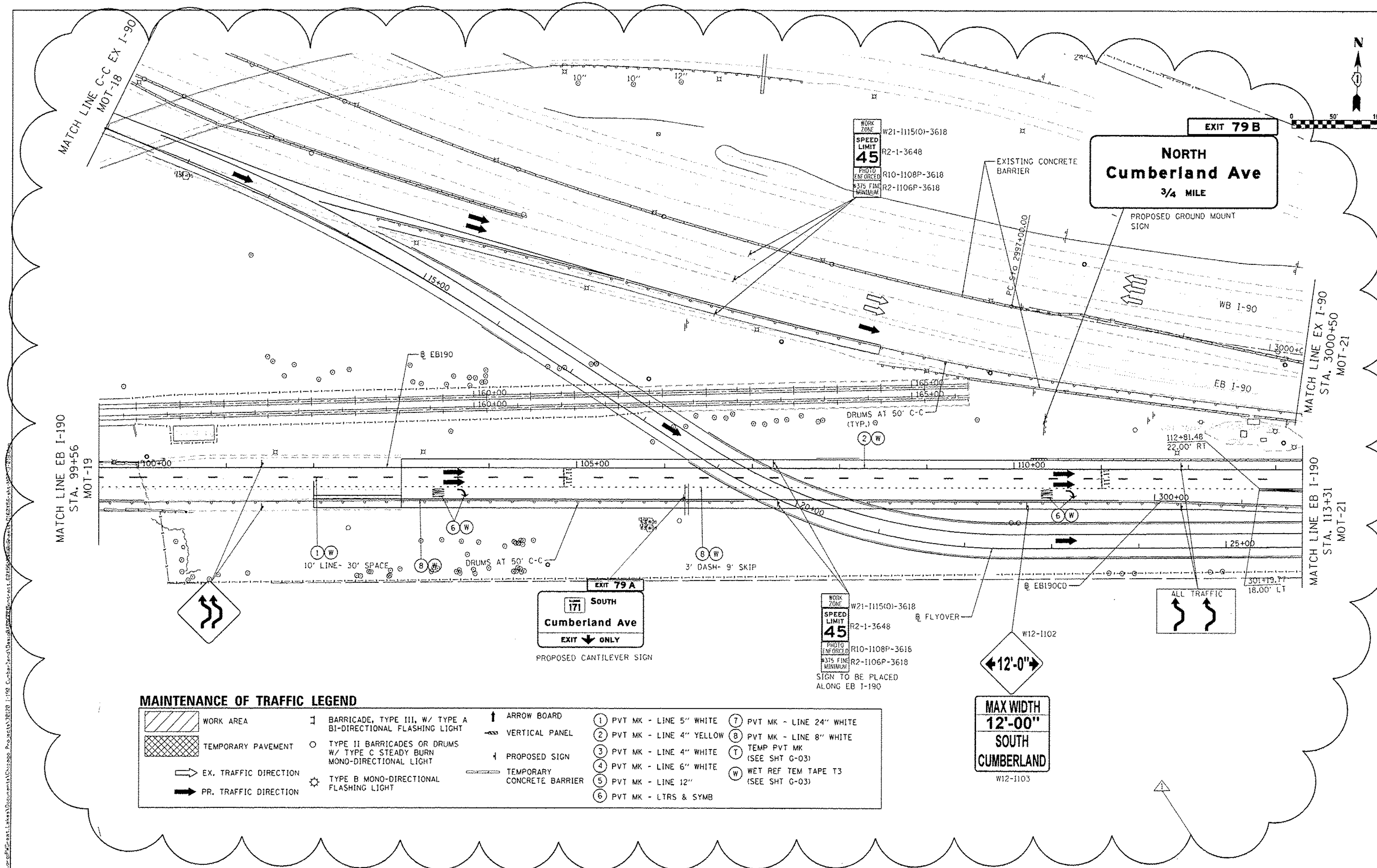
exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY	USER NAME = mohammna	DESIGNED - MM	REVISED - (1) 8/26/2016 MM	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	PLOT SCALE = 1.0000 ' / in.	DRAWN - MM	REVISED -	
		CHECKED - KA	REVISED -	
	PLOT DATE = 8/26/2016	DATE - 05/06/2016	REVISED -	

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 1 EB

SCALE: | SHEET OF SHEETS | STA. 100+00.00 TO STA. 113+31.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	87

CONTRACT NO. 60X56
ILLINOIS FED. AID PROJECT



MATCH LINE C-C EX I-90
MOT-18
N
0 50' 100'
EXIT 79 B
NORTH
Cumberland Ave
3/4 MILE
PROPOSED GROUND MOUNT SIGN
WORK ZONE
SPEED LIMIT 45
PHOTO ENFORCED
$375 FINE MINIMUM
W21-1115(O)-3618
R2-1-3648
R10-1108P-3618
R2-1106P-3618
EXISTING CONCRETE BARRIER
PC Sta 2997+00.00
WB I-90
EB I-90
1 3000+00
1 15+00
MATCH LINE EX I-90
STA. 3000+50
MOT-21
℄ EB190
1 160+00
1 165+00
DRUMS AT 50' C-C (TYP.)
112+81.48
22.00' RT
MATCH LINE EB I-190
STA. 99+56
MOT-19
1 100+00
1 105+00
1 110+00
1 300+00
1 20+00
1 25+00
MATCH LINE EB I-190
STA. 113+31
MOT-21
10' LINE- 30' SPACE
DRUMS AT 50' C-C
3' DASH- 9' SKIP
℄ EB190CD
301+19.77
18.00' LT
EXIT 79 A
171 SOUTH
Cumberland Ave
EXIT ONLY
PROPOSED CANTILEVER SIGN
WORK ZONE
SPEED LIMIT 45
PHOTO ENFORCED
$375 FINE MINIMUM
W21-1115(O)-3618
R2-1-3648
R10-1108P-3618
R2-1106P-3618
SIGN TO BE PLACED ALONG EB I-190
℄ FLYOVER
W12-1102
12'-0"
MAX WIDTH
12'-00"
SOUTH
CUMBERLAND
W12-1103
ALL TRAFFIC
MAINTENANCE OF TRAFFIC LEGEND
WORK AREA
TEMPORARY PAVEMENT
EX. TRAFFIC DIRECTION
PR. TRAFFIC DIRECTION
BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT
TYPE II BARRICADES OR DRUMS W/ TYPE C STEADY BURN MONO-DIRECTIONAL LIGHT
TYPE B MONO-DIRECTIONAL FLASHING LIGHT
ARROW BOARD
VERTICAL PANEL
PROPOSED SIGN
TEMPORARY CONCRETE BARRIER
1 PVT MK - LINE 5" WHITE
2 PVT MK - LINE 4" YELLOW
3 PVT MK - LINE 4" WHITE
4 PVT MK - LINE 6" WHITE
5 PVT MK - LINE 12"
6 PVT MK - LTRS & SYMB
7 PVT MK - LINE 24" WHITE
8 PVT MK - LINE 8" WHITE
T TEMP PVT MK (SEE SHT G-03)
W WET REF TEM TAPE T3 (SEE SHT G-03)

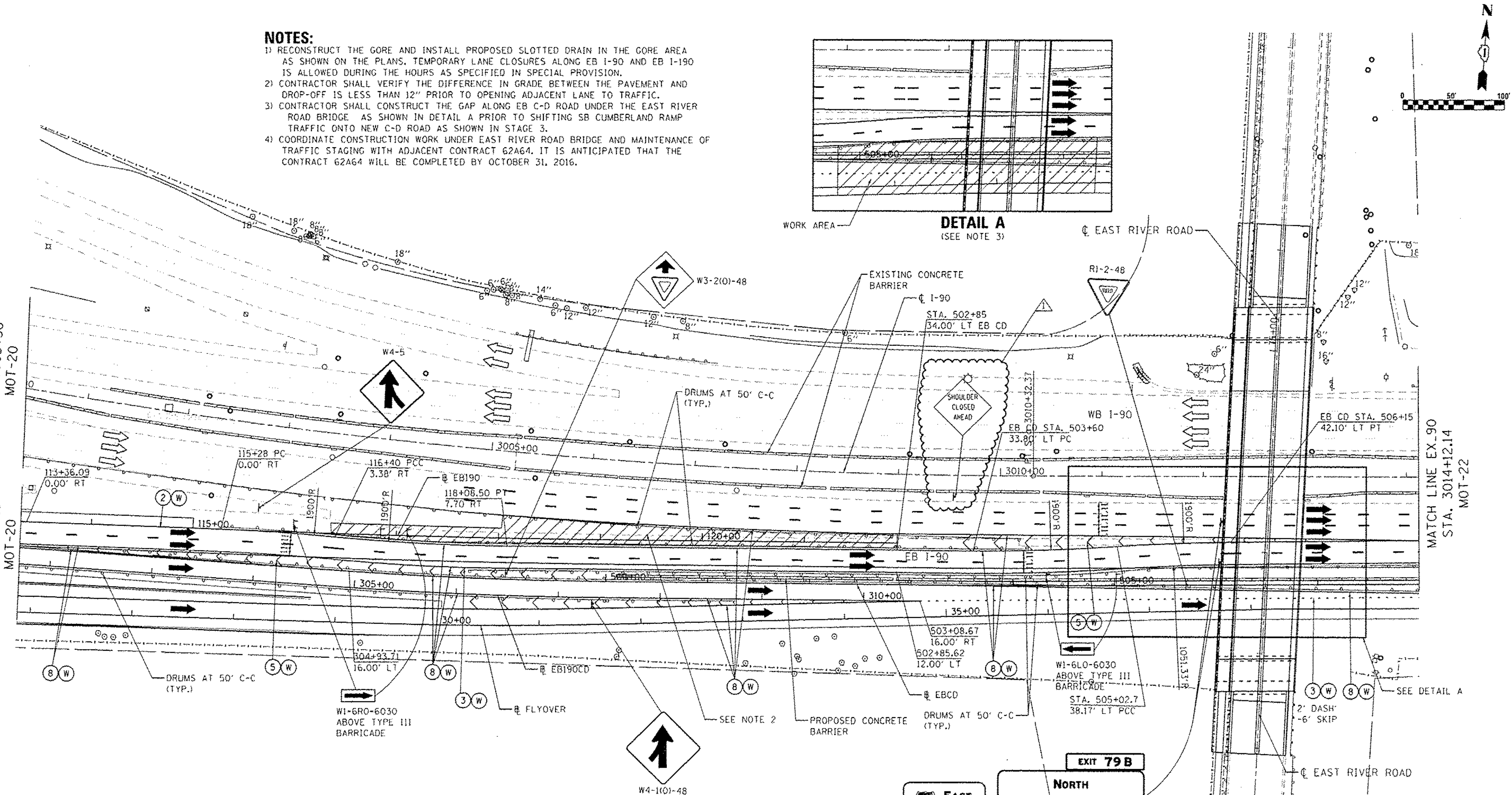
MOT-20

exp U.S. Services Inc.	USER NAME = mohammo	DESIGNED - MM	REVISED - 8/26/2016 MM	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL STAGE 3 EB
		DRAWN - MM	REVISED -		
	PLOT SCALE = 1.0000 '/ in.	CHECKED - KA	REVISED -		SCALE: SHEET OF SHEETS STA. 100+00.00 TO STA. 113+31.00
	PLOT DATE = 8/31/2016	DATE - 05/06/2016	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	100
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		

NOTES:

1) RECONSTRUCT THE GORE AND INSTALL PROPOSED SLOTTED DRAIN IN THE GORE AREA AS SHOWN ON THE PLANS. TEMPORARY LANE CLOSURES ALONG EB I-90 AND EB I-190 IS ALLOWED DURING THE HOURS AS SPECIFIED IN SPECIAL PROVISION.
2) CONTRACTOR SHALL VERIFY THE DIFFERENCE IN GRADE BETWEEN THE PAVEMENT AND DROP-OFF IS LESS THAN 12" PRIOR TO OPENING ADJACENT LANE TO TRAFFIC.
3) CONTRACTOR SHALL CONSTRUCT THE GAP ALONG EB C-D ROAD UNDER THE EAST RIVER ROAD BRIDGE AS SHOWN IN DETAIL A PRIOR TO SHIFTING SB CUMBERLAND RAMP TRAFFIC ONTO NEW C-D ROAD AS SHOWN IN STAGE 3.
4) COORDINATE CONSTRUCTION WORK UNDER EAST RIVER ROAD BRIDGE AND MAINTENANCE OF TRAFFIC STAGING WITH ADJACENT CONTRACT 62A64. IT IS ANTICIPATED THAT THE CONTRACT 62A64 WILL BE COMPLETED BY OCTOBER 31, 2016.



MAINTENANCE OF TRAFFIC LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- EX. TRAFFIC DIRECTION
- PR. TRAFFIC DIRECTION
- BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT
- TYPE II BARRICADES OR DRUMS W/ TYPE C STEADY BURN MNO-DIRECTIONAL LIGHT
- TYPE B MONO-DIRECTIONAL FLASHING LIGHT
- ARROW BOARD
- VERTICAL PANEL
- PROPOSED SIGN
- TEMPORARY CONCRETE BARRIER
- (1) PVT MK - LINE 5" WHITE
- (2) PVT MK - LINE 4" YELLOW
- (3) PVT MK - LINE 4" WHITE
- (4) PVT MK - LINE 6" WHITE
- (5) PVT MK - LINE 12"
- (6) PVT MK - LTRS & SYMB
- (7) PVT MK - LINE 24" WHITE
- (8) PVT MK - LINE 8" WHITE
- (T) TEMP PVT MK (SEE SHT G-03)
- (W) WET REF TEM TAPE T3 (SEE SHT G-03)

MOT-21

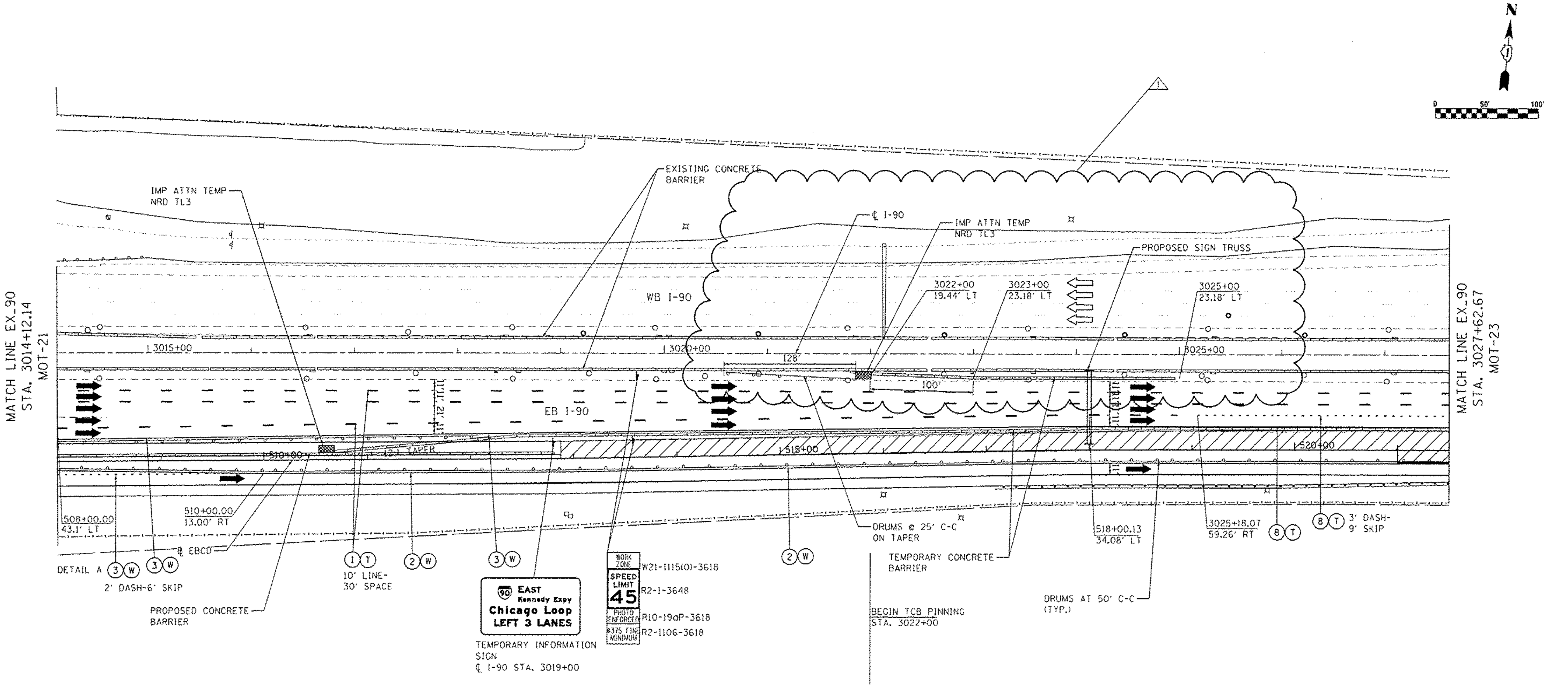
exp U.S. Services Inc. Chicago, IL. BUILDINGS, EARTH & ENVIRONMENT, ENERGY, INDUSTRIAL, INFRASTRUCTURE, SUSTAINABILITY	USER NAME = mohammin	DESIGNED - MM	REVISED - ⚠1 8/26/2016 MM
		DRAWN - MM	REVISED -
	PLOT SCALE = 1.0000 '/ in.	CHECKED - KA	REVISED -
	PLOT DATE = 8/26/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 3 EB

SCALE: | SHEET OF SHEETS | STA. 3003+38.74 TO STA. 3014+12.14

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	101
		CONTRACT NO. 60X56		
	ILLINOIS FED. AID PROJECT			



MAINTENANCE OF TRAFFIC LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- EX. TRAFFIC DIRECTION
- PR. TRAFFIC DIRECTION
- BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT
- TYPE II BARRICADES OR DRUMS W/ TYPE C STEADY BURN MONO-DIRECTIONAL LIGHT
- TYPE B MONO-DIRECTIONAL FLASHING LIGHT
- ARROW BOARD
- VERTICAL PANEL
- PROPOSED SIGN
- TEMPORARY CONCRETE BARRIER
- (1) PVT MK - LINE 5" WHITE
- (2) PVT MK - LINE 4" YELLOW
- (3) PVT MK - LINE 4" WHITE
- (4) PVT MK - LINE 6" WHITE
- (5) PVT MK - LINE 12"
- (6) PVT MK - LTRS & SYMB
- (7) PVT MK - LINE 24" WHITE
- (8) PVT MK - LINE 8" WHITE
- (T) TEMP PVT MK (SEE SHT G-03)
- (W) WET REF TEM TAPE T3 (SEE SHT G-03)

NOTE:

1) INSTALL TEMPORARY CONCRETE BARRIER AND SECURE IT TO THE PAVEMENT USING THREE ANCHORING PINS ON TRAFFIC SIDE OF BARRIER ACCORDING TO ILLINOIS HIGHWAY STANDARD 704001.
2) CLOSE EB I-90 INSIDE SHOULDER AS SHOWN ON THE PLANS DURING THIS STAGE..
3) CONSTRUCT LEFT TRUSS FOUNDATION AND CTA BARRIER WALL ACCORDING TO PLANS UTILIZING IDOT STANDARD FOR TEMPORARY LANE CLOSURE DURING THE ALLOWABLE HOURS SPECIFIED IN "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.
4) REMOVE TRAFFIC CONTROL FROM INSIDE SHOULDER AT THE END OF TRUSS FOUNDATION AND CTA BARRIER WALL CONSTRUCTION.

MOT-22

exp U.S. Services Inc.
BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

USER NAME = mohammma	DESIGNED - MM	REVISED - 1 8/26/2016 MM
	DRAWN - MM	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED - KA	REVISED -
PLOT DATE = 8/26/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 3 EB

SCALE: | SHEET OF SHEETS | STA. 3014+12.14 TO STA.3027+62.67

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	102

CONTRACT NO. 60X56
ILLINOIS FED. AID PROJECT

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $^{7}/_{8}$ in. ϕ, holes $^{15}/_{16}$ in. ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 3,058,300 lbs.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars, including epoxy-coated reinforcement bars, shall conform to the requirements of AASHTO M-31 (ASTM A706), Grade 60, deformed bars.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{1}/_{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.

All cross frames or diaphragms between beams or girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

All exposed concrete edges shall have a $^{3}/_{4}$" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.

Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures", ACI 315.

Reinforcement bar bending dimensions are out to out.

Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bars per line.

Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2 inches for all other surfaces unless otherwise shown.

Slipforming of the parapets is not allowed.

Bridge seat reinforcement shall be carefully placed as detailed in the plans to avoid interference with drilling holes for anchor rods. The beams shall be erected in final position prior to drilling holes for and placing anchor rods.

All bearing anchor rods shall be set before permanently bolting diaphragms or cross frames over supports.

Web plates shall be furnished in available mill lengths and widths with a minimum number of web splices. Location of splices shall be subject to the approval of the Designer and shall be a minimum of 1'-0" from stiffeners or flange splices.

Bearing stiffeners at abutments shall be vertical and ends of beams shall be vertical. Bearing stiffeners at piers shall be perpendicular to flange.

Painting of new structural steel shall be accomplished in accordance with Section 506 of the Standard Specifications except field-applying intermediate and final coats of paint on new steel shall not be allowed.

Prior to placement of the joint block-out, the Contractor shall coordinate with the Modular Joint Manufacturer to ensure that the joint will be properly supported and that the reinforcement bars will not interfere with the joint components. Any necessary adjustments to the reinforcement layout shall be submitted to the Engineer for approval.

Contractor shall not scale dimensions from the Contract Plans for construction purposes. Scales shown are for information only.

No construction joints except those shown on the plans will be allowed unless approved by the Engineer.

It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.

It shall be the Contractor's responsibility to verify the location of all fiber optic utilities prior to starting construction. The Contractor shall initiate the location process for the fiber optic cable by completing a "Request Tollway Utilities Locate" form filled in online at the Tollway website under "Doing Business" at least four (4) business days prior to starting any underground operations, excavations or digging of any type in the general area of the fiber optic cable.

TOTAL BILL OF MATERIAL

SP	ITEM	UNIT	SUPER	SUB	TOTAL	RECORD QUANTITY
	Protective Shield	Sq Yd	2,228		2,228	
	Structure Excavation	Cu Yd		1,027	1,027	
	Concrete Structures	Cu Yd		1,166.0	1,166.0	
*	Concrete Structures (Special)	Cu Yd		151.0	151.0	
	Concrete Superstructure	Cu Yd	236.4		236.4	
*	High Performance Concrete Superstructure	Cu Yd	1,057.4		1,057.4	
	Bridge Deck Grooving	Sq Yd	3,361		3,361	
	Protective Coat	Sq Yd	4,370		4,370	
1	Furnishing and Erecting Structural Steel	L Sum	1		1	
1	Stud Shear Connectors	Each	15,987		15,987	
	Reinforcement Bars, Epoxy Coated	Pound	325,760	141,080	466,840	
1	Test Pile Steel HP10x42	Each		2	2	
	Test Pile Steel HP14x73	Each		5	5	
	Furnishing Steel Piles HP10x42	Foot		725	725	
	Furnishing Steel Piles HP14x73	Foot		9,595	9,595	
	Driving Piles	Foot		10,320	10,320	
	Pile Shoes	Each		12	12	
	Name Plates	Each		1	1	
1	Anchor Bolts, $1^{1}/_{2}$"	Each		132	132	
	Concrete Sealer	Sq Ft		6,610	6,610	
	Geocomposite Wall Drain	Sq Yd		350	350	
*	High Load Multi-Rotational Bearings, Guided Expansion, 250K	Each	12		12	
*	High Load Multi-Rotational Bearings, Guided Expansion, 750K	Each	12		12	
*	High Load Multi-Rotational Bearings, Fixed - 800K	Each	6		6	
*	Modular Expansion Joint 9"	Foot	76.0		76.0	
*	Granular Backfill For Structures	Cu Yd		291	291	
*	Pipe Underdrains For Structures 6"	Foot		121	121	
*	Bridge Approach Slab	Sq Yd	274		274	
*	Transition Approach Slab	Sq Yd	248		248	
	Bar Splicers	Each	82		82	
*	Form Liner Mock Up	L Sum		1	1	
*	Form Liner	Sq Ft		1,935	1,935	
*	Bonded Preformed Joint Seal 2"	Foot	32		32	

* Indicates item covered by Special Provision

GENERAL NOTES, cont'd.

Concrete sealer shall be applied to the surfaces of all pier and abutment seats, including backwalls located below roadway expansion joints. Sealer shall also be applied to all exposed surfaces of piers in the median or piers, abutments and wingwalls that are adjacent to the roadway.

After the beams (girders) are set, all elevations for determining fillet heights shall be taken at one time.

Upon completion of each structure, the Contractor shall measure the resulting horizontal and vertical clearances and submit them to the Engineer for review and inclusion in the As Built plans (Record Drawings).

The soil boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

Whenever any material is deposited into a drainage system or drainage structures, the deposited material shall be removed at the close of each working day. At the conclusion of construction operations, all drainage systems and structures shall be free from dirt and debris deposited during the various construction operations.

The deck pouring sequence shown on the plans has been used to design the required beam camber and to determine the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" used in the calculation of fillet heights, "f". Requests for changes to the plan pouring sequence shall be submitted in writing prior to ordering of steel. Modifications, either to the camber diagrams or the "Theoretical Grade Elevations Adjusted for Dead Load Deflection," resulting from changes to the plan pouring sequence shall be the responsibility of the Contractor. All required plans shall be submitted with the request and shall be sealed by an Illinois Licensed Structural Engineer.

INDEX OF SHEETS

HNTB

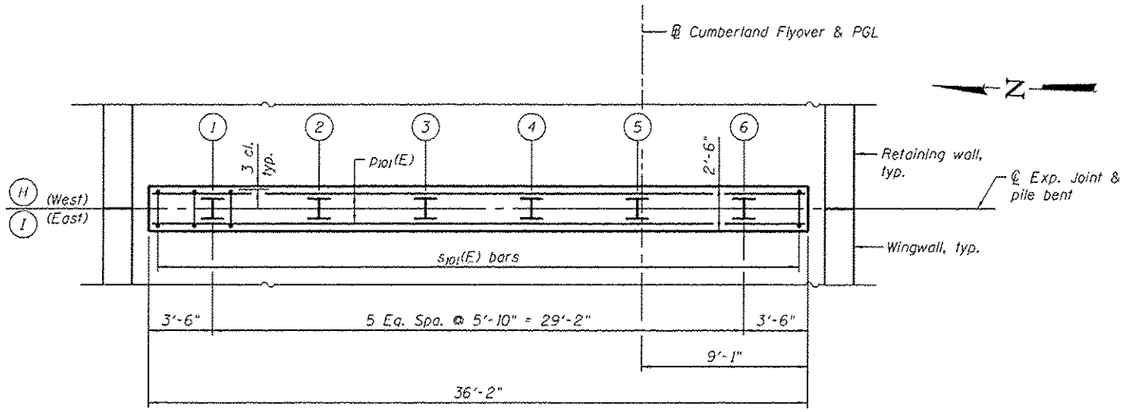
USER NAME = jeakre	DESIGNED - JFA	REVISED 1 08/26/2016 JFA
	CHECKED - JFA	REVISED
PLOT SCALE = 0.083333 ' / in.	DRAWN - LK	REVISED
PLOT DATE = 8/27/2016	CHECKED - PCA	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA – 1
BRIDGE NO. 380
SHEET NO. 2 OF 61 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	323
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		

FILE NAME = pw:\\hntbw356.hntb.org:PWGreat_Lakes\Documents\Chicago Projects\30120 I-190 Cumberland\Design\CADD_Contract_60X56\CADD_Sheets\380-60X56-002-GN1.dgn



APPROACH BENT - PLAN

East Appr. shown, West Appr. similar

PILE DATA

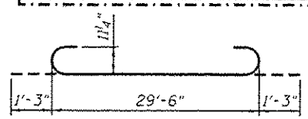
Type: Steel-HP10x42 with Pile Shoes
Nominal Required Bearing: 291 kips
Factored Resistance Available: 160 kips
Est. Length: *
No. Production Piles: 5
No. Test Piles: 1

* 71'-0" West
74'-0" East

** 355 West Bent
370 East Bent

ONE APPROACH BENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$p_{101}(E)$	10	#6	35'-10"	
$s_{101}(E)$	38	#4	8'-9"	
Concrete Structures		Cu Yd	8.5	
Reinforcement Bars, Epoxy Coated		Pound	760	
Furnishing Steel Piles HP10x42		Foot	**	
Driving Piles		Foot	**	
Test Pile Steel HP10x42		Each	1	
Pile Shoes		Each	6	



$b_{101}(E)$ BAR

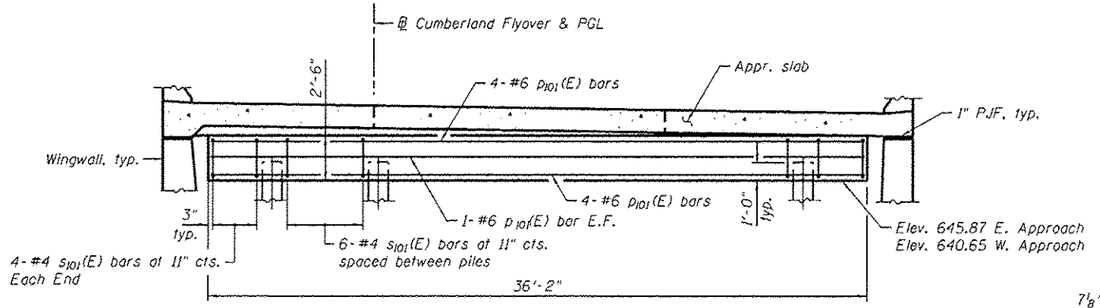
ONE APPROACH SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_{101}(E)$	120	#8	22'-6"	
$a_{102}(E)$	61	#5	13'-3"	
$a_{104}(E)$	61	#5	11'-3"	
$a_{105}(E)$	61	#5	15'-8"	
$a_{108}(E)$	57	#4	15'-8"	
$b_{101}(E)$	62	#9	32'-0"	
$b_{102}(E)$	61	#9	24'-6"	
$b_{103}(E)$	82	#5	29'-6"	
$b_{107}(E)$	51	#5	24'-11"	
Bridge Approach Slab		Sq Yd	137	
Transition Approach Slab		Sq Yd	124	
*** Reinforcement Bars, Epoxy Coated		Pound	26,040	
*** Protective Coat		Sq Yd	265	
*** Bridge Deck Grooving		Sq Yd	119	
*** Sanded Preformed Joint Seal		Foot	16	

*** For Information Only

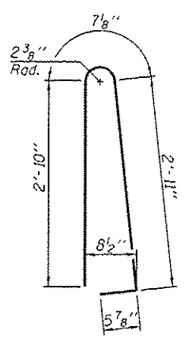
ONE APPROACH BARRIERS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d_{100}(E)$	110	#5	6'-10"	
$d_{101}(E)$	104	#5	7'-11"	
$e_{100}(E)$	14	#5	14'-8"	
$e_{101}(E)$	14	#5	16'-2"	
$e_{102}(E)$	2	#8	31'-2"	
$e_{103}(E)$	2	#5	31'-2"	
Concrete Superstructure		Cu Yd	8.0	
Reinforcement Bars, Epoxy Coated		Pound	2,320	
Protective Coat		Sq Yd	8	

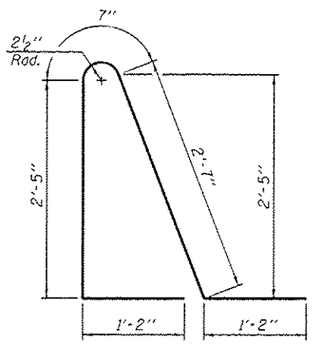


APPROACH BENT ELEVATION

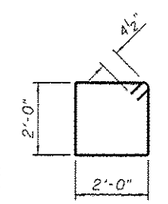
Looking West



BAR $d_{100}(E)$



BAR $d_{101}(E)$



BAR $s_{101}(E)$

Notes:

1. The reinforcing bars schedule, bill of materials, and quantities are calculated for one end of bridge.
2. The area of main Bridge Approach Slab shall be measured in place and computed in square yards. See Special Provisions for other work that is included in the cost of this item.
3. The area of the Transition Approach Slab calculated for payment is the plan area calculated from the width dimensions from left outside edge of concrete pavement to the right outside edge of concrete pavement by the minimum length of 70.00 feet.
4. For Modular Expansion Joint Detail, see Sheet 24 of 61.
5. Concrete parapets shall be constructed and paid for in accordance with sections 503 and 508 of the IDOT Standard Specifications.
6. Protective Coat shall be applied to the Bridge Approach Slab and Transition Approach Slab, and Approach Slab parapets in accordance with section 503.17 of the IDOT Standard Specifications.
7. Bridge Deck Grooving shall be applied to the Bridge Approach Slab in accordance with section 503 of the IDOT Standard Specifications.
8. If approach bent piles are installed after wingwall footing is constructed, they shall be precored in accordance with section 512.09c of the IDOT Standard Specifications.

HNTB

USER NAME = jaskra	DESIGNED - JFA	REVISED 1 8/26/2016 JFA	
	CHECKED - MRI	REVISED	
PLOT SCALE = 0.0833 ' / in.	DRAWN - LK	REVISED	
PLOT DATE = 8/27/2016	CHECKED - JFA	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS - 4
BRIDGE NO. 380
SHEET NO. 26B OF 61 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	680	349
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		

FILE NAME = pw:\\hntbw350.hntb.org:PWGreat_Lakes\Documents\Chicago Projects\30120 I-190 Cumberland\Design\CADD_Contract_60X56\CADD_Sheets\380-60X56-026B-APP4.dgn

GENERAL NOTES

CAST-IN-PLACE CONCRETE

All exposed Concrete edges shall have a $\frac{3}{4}$"x45° Chamfer, Except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below the finished ground level.

REINFORCEMENT BARS

1. Reinforcement bars designated "(E)" shall be epoxy coated.
2. Reinforcement Bars, Epoxy Coated shall conform to the requirements of A.A.S.H.T.O. M-31 (ASTM A615) Grade 60, Deformed Bars.
3. Reinforcement bending details shall be in accordance with the latest "Manual Of Standard Practice for Detailing Reinforced Concrete Structures" ACI 315.
4. Reinforcement Bar Splices shall be in accordance with the following table. Unless otherwise shown on the Drawing.

CLASS "B" SPLICE (GRADE 60 BARS)

SIZE	f'c=3,500 PSI (BASIC)	f'c=3,500 PSI (TOP)
#4	2'-5"	2'-11"
#5	3'-4"	3-9"
#6	4'-9"	5'-4"
#7	5'-6"	6'-3"
#8	7'-2"	8'-2"
#9	9'-2"	10'-4"
#10	10'-2"	11'-6"
#11	12'-6"	14'-2"

5. Reinforcement bar bending dimensions are out to out.
6. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bars per line.
7. Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2 inches for all other surfaces unless otherwise shown.

CONSTRUCTION

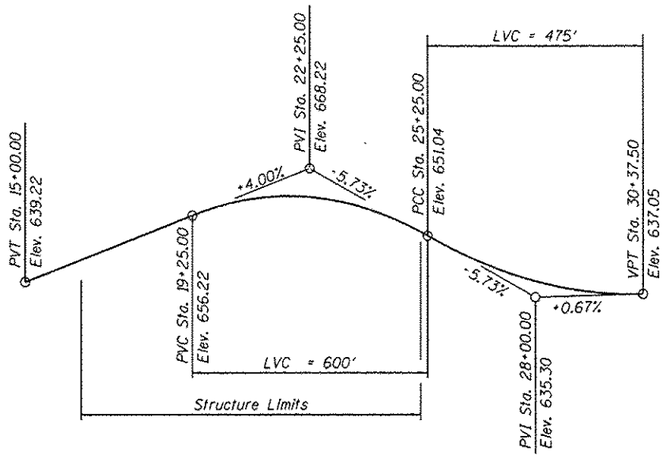
1. The Contractor shall not scale any dimensions from contract plans for construction purposes. Scales shown are for reference only.
2. No Construction joints, except those shown on the plans, will be allowed unless approved by the Engineer. All construction joints shall be bonded.
3. Temporary soil retention system, sheeting, bracing or cofferdams shall be constructed at the locations shown on the plans and/or as required for the excavation to protect the adjacent from settling or falling into the excavated areas.
4. Protective coat shall be applied to the top and traffic face of all barriers of the Wall.
5. When excavating for the wall's footing, the Contractor shall use a method that will result in minimal disturbance to the underlying soil.
6. Geocomposite wall drain is to be continuous over the entire length of the back face of the retaining wall.
7. The Contractor shall be responsible for the protection of all underground or surface utilities even though they may not be shown in the plans. Any utility that is damaged during construction shall be repaired or replaced to the satisfaction of the Engineer. This work will be at the Contractor's expense.
8. The Contractor shall coordinate work with utilities in advance of working in the vicinity of their facilities, and allow sufficient time for them to perform adjustments to their facilities in accordance with the Contractor's schedule. Coordination efforts shall be included in the cost of the contract bid price.
9. The Contractor must call the IDOT electrical maintenance Contractor to locate IDOT facility cables.

CONSTRUCTION (CONTINUED)

10. The 6" perforated pipe underdrain shall be situated within a block of granular backfill, which shall be wrapped completely in geotechnical filter fabric. A 1'-6" lap will be used where the fabric must be lapped. Cost of Geotechnical fabric shall be included with Pipe Underdrain, 6". Granular backfill for structures will be paid for separately.
11. The stability of the existing embankment shall be monitored during driving of piles since potentially liquefiable soils were encountered at and below the top of the existing embankment. All soft areas are to be tested and evaluated according to IDOT's subgrade stability manual. The contractor shall take all necessary precautions to prevent the instability of the embankment.
12. All retaining walls which are to be supported on piling have "Pile Installation Tables" that should be recorded in the field book. These tables are for record purposes and must be filled in by the construction section Engineer during pile installation or driving. The "Pile Location" and "Pile Number" columns must also be filled in during pile installation or driving.
13. Station and offsets are measured from ℄ SB Cumberland Flyover Ramp to the front face of the retaining wall.
14. For the Proposed Sewer location in the vicinity of the Retaining Walls. See Civil Plans.
15. The soil boring logs represent point information. Presentation of this information in no way impiles that subsurface conditions are the same at locations other than the exact location of the boring.
16. No concrete cutting will be permitted until the cutting limits have been outlined by the Contractor and approved by the Engeineer.
17. It shall be the Contractor's responsibilty to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
18. It shall be the Contractor's responsibilty to verify the location of all fiber optic cables and other utilities prior to starting construction and no pile should be driven within 2'-0" clearance. The Contractor shall initiate the location process for the fiber optic cable by completing a "Request Tollway Utilities Locate" form filled in online at the Tollway website under " Doing Business" at least four (4) business days prior to starting any underground operations , excavations or digging of any type in the general area of the fiber optic cable."
19. Whenever any material is deposited into a drainage system or drainage structures, the deposited material shall be removed at the close of each working day. At the conclusion of construction operations, all drainage system and structures shall be free from dirt and debris deposited during the various construction operations.

ABBREVIATIONS

P.G.L.	Profile Grade Line	O.F.	Profile Grade Line
N.B.L.	North Bound Lanes	P.J.F.	North Bound Lanes
S.B.L.	South Bound Lanes	P.J.S.	South Bound Lanes
S. Abut	South Abutment	BK/	Back of
N. Abut	North Abutment	B/	Bottom of
E.F.	Each Face	T/	Top of
F.F.	Front face	Prop.	Proposed
B.F.	Back Face	Exist.	Existing
I.F.	Inside Face		



PROFILE GRADE ℄ CUMBERLAND FLYOVER RAMP

CURVE DATA CUMBFLY-02

PI STA. = 20+67.96
Δ = 33° 47' 31" (LT)
D = 8° 44' 03"
R = 656.00'
T = 199.26'
L = 386.90'
E = 29.59'
e = 6.0%
P.C. STA. = 18+68.71
P.T. STA. = 22+55.60

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

PAY ITEM DESCRIPTION	UNIT	TOTAL	RECORD QUANTITY
* Granular Backfill For Structures	Cu Yd	844	
Structure Excavation	Cu Yd	2,512	
Concrete Structure	Cu Yd	2,090	
Concrete Superstructure	Cu Yd	180	
Protective Coat	Sq Yd	845	
Reinforcement Bars, Epoxy Coated	Pound	264,214	
Furnishing Metal Shell Piles 12"x0.179"	Foot	17,811	
Driving Piles	Foot	17,811	
Test Pile Metal Shells	Each	7	
Geocomposite Wall Drain	Sq Yd	2,075	
* Pipe Underdrain for Structures, 6"	Foot	1,106	
Form Liner	Sq Ft	9,501	

* Special Provision Required

DELTA ENGINEERING GROUP, LLC

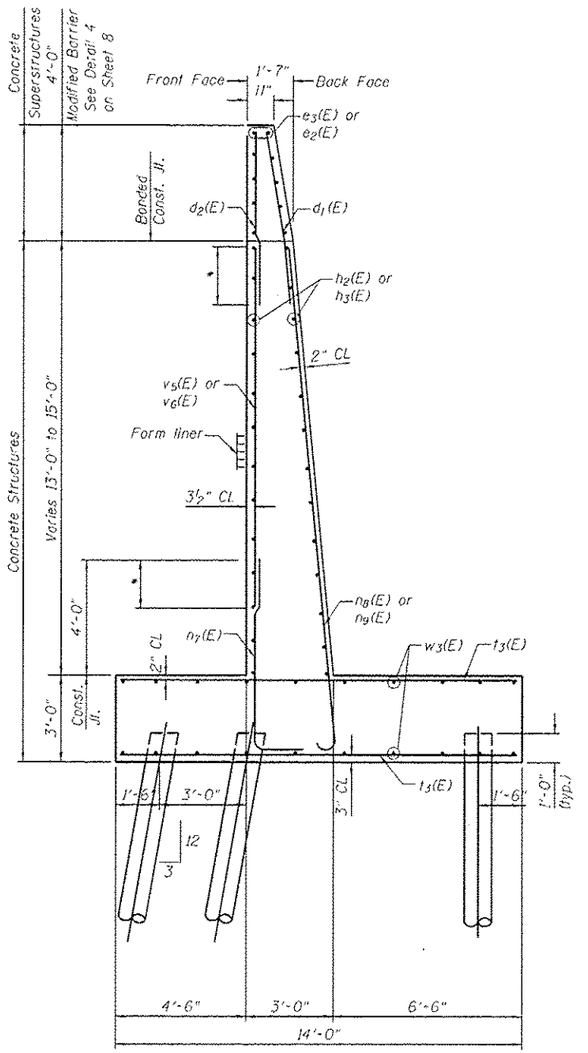
USER NAME = $USER$	DESIGNED - NS	REVISED
	CHECKED - SK	REVISED
PLOT SCALE = $SCALE$	DRAWN - DB	REVISED
PLOT DATE = $DATE$	CHECKED - NS	REVISED 08/26/2016 ADDENDUM 1

FILE NAME = $FILE$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
CUMBERLAND FLYOVER RAMP RETAINING WALLS
NW78.70R EB(R), NW78.80R EB(R) & NW78.90R EB(R)
SHEET NO. 3 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	387
		CONTRACT NO. 60X56		
	ILLINOIS FED. AID PROJECT			



Section C-C
Retaining Wall 2

Sta. 15+85.00 to Sta. 16+29.58
Pile Type: 12" Metal Shell Cast-in-Place
Concrete Piles with wall thickness = 0.179"
Nominal Required Bearing = 171 Kips
Factored Resistance Available = 94 Kips
Estimated Pile Length = 22'
No. Req'd = 41+1 Test Pile
1

* For minimum lap lengths of reinforcement, see Sheet 3

DELTA ENGINEERING GROUP, LLC

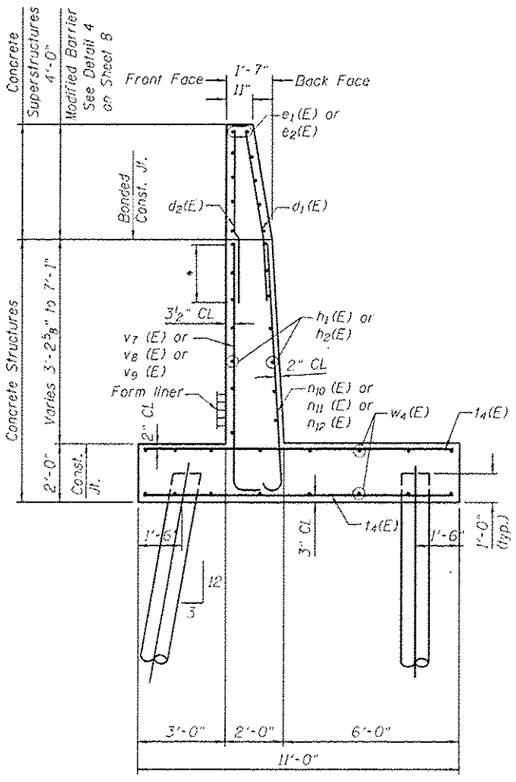
USER NAME = $USER$	DESIGNED - JC	REVISED
	CHECKED - SK	REVISED
PLOT SCALE = $SCALE$	DRAWN - AA	REVISED
PLOT DATE = $DATE$	CHECKED - NS	REVISED 1 08/26/2016 ADDENDUM 1

FILE NAME = $FILEL$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

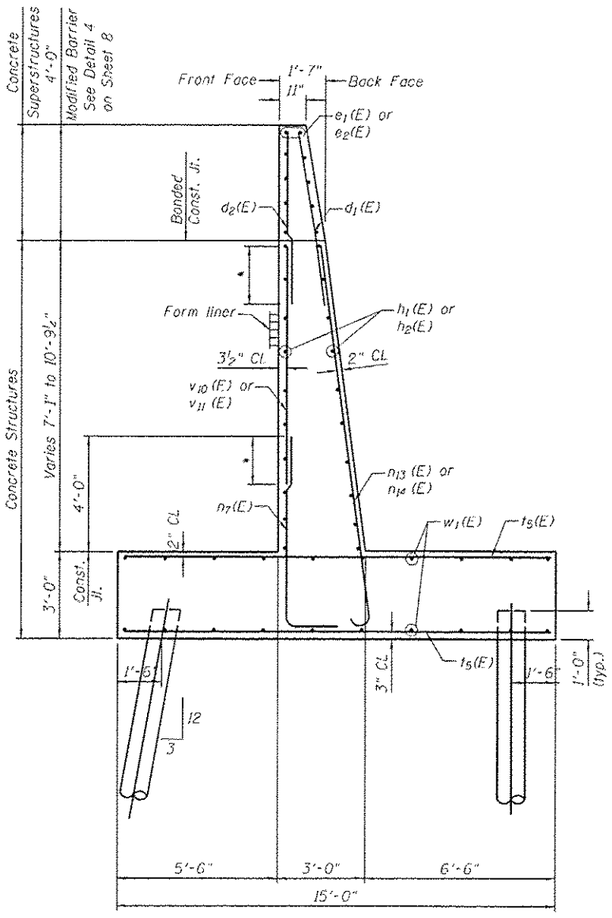
WALL SECTION & DETAILS (2 OF 4)
CUMBERLAND FLYOVER RAMP RETAINING WALLS
NW78.80R EB(R) & NW78.90R EB(R)
SHEET NO. 9 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	393
		CONTRACT NO. 60X56		
	ILLINOIS	FED. AID PROJECT		



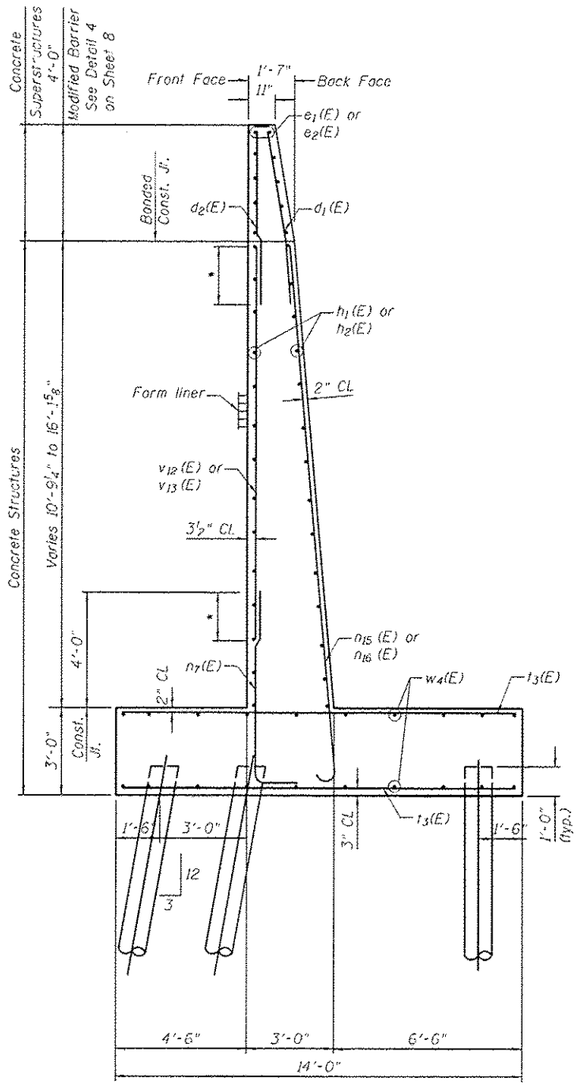
Section D-D
Retaining Wall 3

Sta. 28+70.24 to Sta. 27+20.24
Pile Type: 12" Metal Shell Cast-in-Place
Concrete Piles with wall thickness = 0.179"
Nominal Required Bearing = 153 Kips
Factored Resistance Available = 84 Kips
Estimated Pile Length = 27'
No. Req'd = 99+1 Test Pile



Section E-E
Retaining Wall 3

Sta. 27+20.24 to Sta. 26+30.24
Pile Type: 12" Metal Shell Cast-in-Place
Concrete Piles with wall thickness = 0.179"
Nominal Required Bearing = 181 Kips
Factored Resistance Available = 100 Kips
Estimated Pile Length = 30'
No. Req'd = 59+1 Test Pile



Section F-F
Retaining Wall 3

Sta. 26+30.24 to Sta. 25+40.24
Pile Type: 12" Metal Shell Cast-in-Place
Concrete Piles with wall thickness = 0.179"
Nominal Required Bearing = 171 Kips
Factored Resistance Available = 94 Kips
Estimated Pile Length = 29'
No. Req'd = 89+1 Test Pile

* For minimum lap lengths of reinforcement, see Sheet 3

DELTA ENGINEERING GROUP, LLC

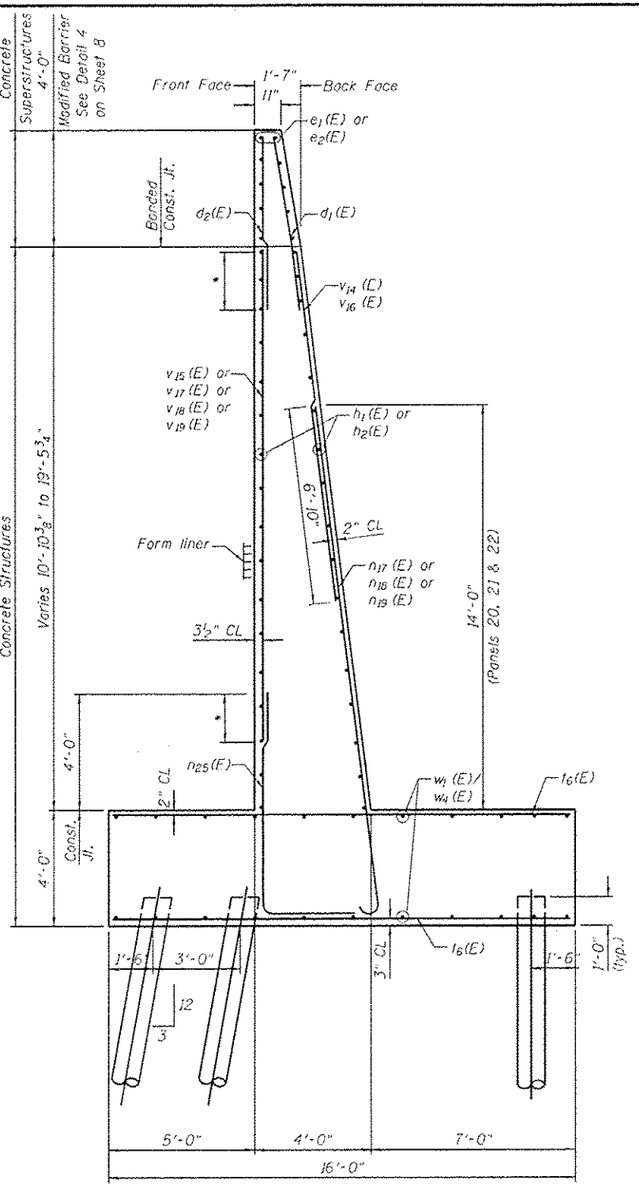
USER NAME = $USER$	DESIGNED - JC	REVISED
	CHECKED - SK	REVISED
PLOT SCALE = $SCALE$	DRAWN - AA	REVISED
PLOT DATE = $DATE$	CHECKED - NS	REVISED 1 08/26/2016 ADDENDUM 1

FILE NAME = $FILE$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

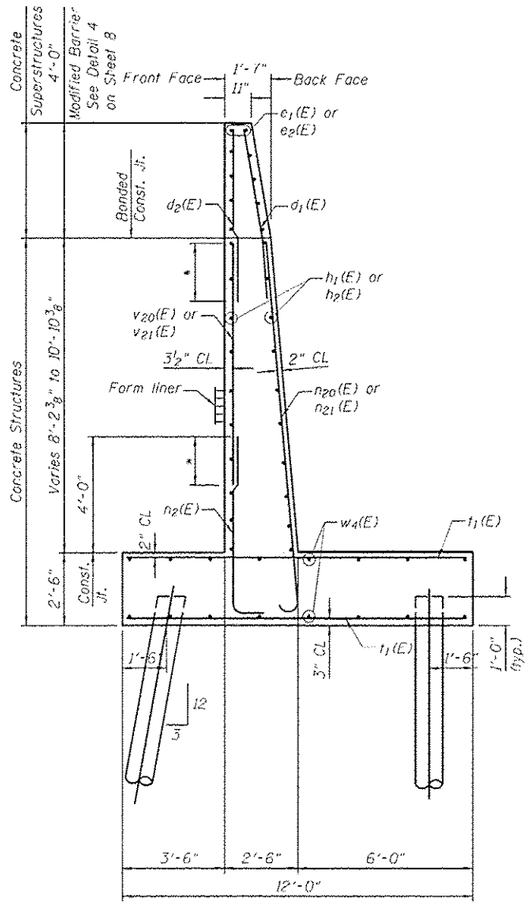
WALL SECTION & DETAILS (3 OF 4)
CUMBERLAND FLYOVER RAMP RETAINING WALLS
NW78.70R EB(R), NW78.80R EB(R) & NW78.90R EB(R)
SHEET NO. 10 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	394
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		



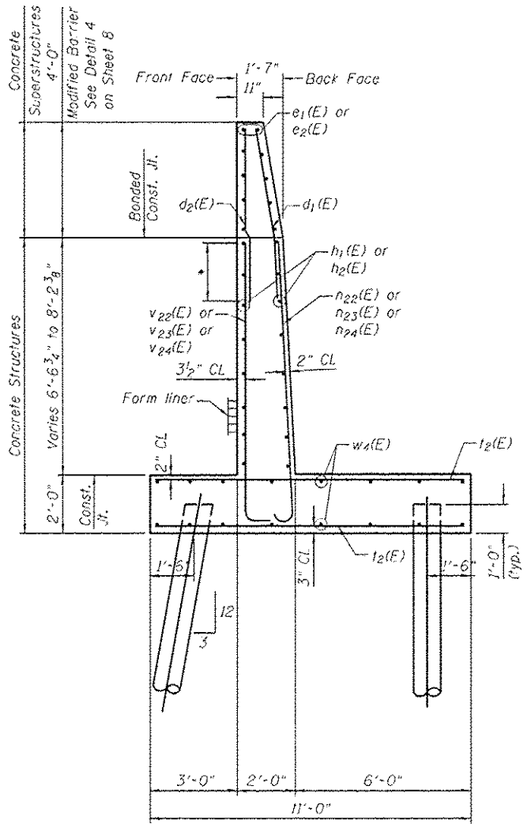
Section G-G
Retaining Wall 4

Sta. 25+40.24 to Sta. 27+20.24
Pile Type: 12" Metal Shell Cast-in-Place Concrete Piles with wall thickness = 0.179"
Nominal Required Bearing = 220 Kips
Factored Resistance Available = 121 Kips
Estimated Pile Length = 24'
No. Req'd = 179+1 Test Pile



Section H-H
Retaining Wall 4

Sta. 27+20.24 to Sta. 28+10.24
Pile Type: 12" Metal Shell Cast-in-Place Concrete Piles with wall thickness = 0.179"
Nominal Required Bearing = 206 Kips
Factored Resistance Available = 113 Kips
Estimated Pile Length = 25'
No. Req'd = 59+1 Test Pile



Section J-J
Retaining Wall 4

Sta. 28+10.24 to Sta. 30+80.24
Pile Type: 12" Metal Shell Cast-in-Place Concrete Piles with wall thickness = 0.179"
Nominal Required Bearing = 169 Kips
Factored Resistance Available = 93 Kips
Estimated Pile Length = 22'
No. Req'd = 179+1 Test Pile

* For minimum lap lengths of reinforcement, see Sheet 3

DELTA ENGINEERING GROUP, LLC	USER NAME = $USER$	DESIGNED - JC	REVISED
		CHECKED - SK	REVISED
	PLOT SCALE = $SCALE$	DRAWN - AA	REVISED
	PLOT DATE = $DATE$	CHECKED - NS	REVISED 08/26/2016 ADDENDUM 1

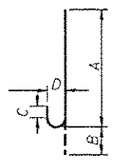
FILE NAME = $FILEL$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL SECTION & DETAILS (4 OF 4)
CUMBERLAND FLYOVER RAMP RETAINING WALLS
NW78.70R EB(R), NW78.80R EB(R) & NW78.90R EB(R)
SHEET NO. 11 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	395
		CONTRACT NO. 60X56		
		ILLINOIS FED. AID PROJECT		

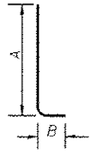
Bar	A	B	C	D
$n_8(E)$	17'-9"	1'-5"	$3\frac{3}{4}$"	1'-$1\frac{1}{4}$"
$n_9(E)$	16'-5"	1'-5"	$3\frac{3}{4}$"	1'-$1\frac{1}{4}$"
$n_{10}(E)$	6'-3"	10"	3"	7"
$n_{11}(E)$	7'-0"	10"	3"	7"
$n_{12}(E)$	8'-10"	10"	3"	7"
$n_{13}(E)$	10'-11"	1'-5"	$3\frac{3}{4}$"	1'-$1\frac{1}{4}$"
$n_{14}(E)$	13'-7"	1'-5"	$3\frac{3}{4}$"	1'-$1\frac{1}{4}$"
$n_{15}(E)$	15'-1"	1'-5"	$3\frac{3}{4}$"	1'-$1\frac{1}{4}$"
$n_{16}(E)$	18'-8"	1'-5"	$3\frac{3}{4}$"	1'-$1\frac{1}{4}$"
$n_{17}(E)$	18'-0"	1'-7"	$4\frac{1}{4}$"	1'-$2\frac{3}{4}$"
$n_{18}(E)$	18'-5"	1'-7"	$4\frac{1}{4}$"	1'-$2\frac{3}{4}$"
$n_{19}(E)$	17'-0"	1'-7"	$4\frac{1}{4}$"	1'-$2\frac{3}{4}$"
$n_{20}(E)$	13'-1"	11"	3"	8"
$n_{21}(E)$	11'-3"	11"	3"	8"
$n_{22}(E)$	9'-11"	10"	3"	7"
$n_{23}(E)$	8'-5"	10"	3"	7"
$n_{24}(E)$	7'-11"	10"	3"	7"



BAR $n_8(E)$ thru $n_{24}(E)$

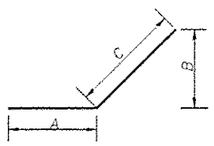
Note: Bars shall be cut-to-fit as required

Bar	A	B
$n_2(E)$	6'-6"	12"
$n_7(E)$	7'-0"	12"
$n_{25}(E)$	8'-0"	12"



BAR $n_2(E)$, $n_7(E)$ & $n_{25}(E)$

Bar	A	B	C
$w_5(E)$	2'-7"	1'-5"	2'-10"
$w_6(E)$	2'-7"	2'-6"	3'-7"
$w_7(E)$	2'-7"	3'-6"	4'-1"



BAR $w_5(E)$, $w_6(E)$ & $w_7(E)$

WALL 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d_1(E)$	45	#6	7'-2"	
$d_2(E)$	45	#5	6'-1"	
$e_2(E)$	10	#4	29'-8"	
$e_3(E)$	10	#4	16'-5"	
$h_2(E)$	32	#5	29'-8"	
$h_3(E)$	30	#5	16'-11"	
$n_7(E)$	45	#5	8'-0"	
$n_8(E)$	45	#10	18'-2"	
$n_9(E)$	23	#10	17'-10"	
$l_3(E)$	104	#9	13'-6"	
$l_7(E)$	2	#9	2'-9"	
$l_{10}(E)$	2	#9	9'-0"	
$l_{11}(E)$	6	#9	14'-3"	
$v_5(E)$	30	#5	12'-8"	
$v_6(E)$	15	#5	11'-4"	
$w_3(E)$	60	#5	23'-4"	
$w_8(E)$	2	#5	2'-6"	

Description	Unit	Qty
Structure Excavation	Cu Yd	193
Concrete Structures	Cu Yd	128
Concrete Superstructures	Cu Yd	9
Reinforcement Bars, Epoxy Coated	Pound	16,404
Furnishing Metal Shell Piles 12"x0.179"	Foot	911
Driving Piles	Foot	911
Test Pile Metal Shells	Each	1
Geocomposite Wall Drain	Sq Yd	98
Pipe Underdrain	Foot	97
Form Liner	Sq Ft	655
Granular Backfill for Structures	Cu Yd	48

WALL 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d_1(E)$	330	#6	7'-2"	
$d_2(E)$	330	#5	6'-1"	
$d_3(E)$	6	#6	7'-7"	
$e_1(E)$	70	#4	32'-0"	
$e_2(E)$	40	#4	29'-8"	
$e_4(E)$	14	#6	7'-0"	
$h_1(E)$	140	#5	32'-7"	
$h_2(E)$	76	#5	29'-8"	
$n_7(E)$	180	#5	8'-0"	
$n_{10}(E)$	160	#7	7'-1"	
$n_{11}(E)$	80	#7	7'-10"	
$n_{12}(E)$	160	#7	9'-8"	
$n_{13}(E)$	36	#10	12'-4"	
$n_{14}(E)$	72	#10	15'-0"	
$n_{15}(E)$	45	#10	16'-6"	
$n_{16}(E)$	90	#10	20'-1"	
$l_3(E)$	212	#9	13'-6"	
$l_4(E)$	300	#8	10'-6"	
$l_5(E)$	216	#9	14'-6"	
$l_{10}(E)$	2	#9	9'-0"	
$l_{12}(E)$	2	#9	2'-6"	
$l_{13}(E)$	6	#9	14'-0"	
$v_7(E)$	60	#5	7'-6"	
$v_8(E)$	30	#5	8'-4"	
$v_9(E)$	60	#5	10'-1"	
$v_{10}(E)$	30	#5	5'-11"	
$v_{11}(E)$	60	#5	8'-5"	
$v_{12}(E)$	30	#5	10'-0"	
$v_{13}(E)$	60	#5	13'-9"	
$w_1(E)$	96	#5	31'-9"	
$w_4(E)$	210	#5	32'-7"	
$w_6(E)$	12	#5	6'-2"	
$w_8(E)$	2	#5	2'-6"	

Description	Unit	Qty
Structure Excavation	Cu Yd	573
Concrete Structures	Cu Yd	673
Concrete Superstructures	Cu Yd	64
Reinforcement Bars, Epoxy Coated	Pound	88,286
Furnishing Metal Shell Piles 12"x0.179"	Foot	7,094
Driving Piles	Foot	7,094
Test Pile Metal Shells	Each	3
Geocomposite Wall Drain	Sq Yd	861
Pipe Underdrain	Foot	395
Form Liner	Sq Ft	3033
Granular Backfill for Structures	Cu Yd	263

WALL 4
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d_1(E)$	540	#6	7'-2"	
$d_2(E)$	540	#5	6'-1"	
$c_1(E)$	120	#4	32'-0"	
$e_2(E)$	60	#4	29'-8"	
$h_1(E)$	294	#5	32'-7"	
$h_2(E)$	146	#5	29'-8"	
$n_2(E)$	90	#5	7'-6"	
$n_{17}(E)$	135	#11	19'-7"	
$n_{18}(E)$	45	#11	20'-0"	
$n_{19}(E)$	90	#11	18'-7"	
$n_{20}(E)$	120	#8	14'-0"	
$n_{21}(E)$	60	#8	12'-2"	
$n_{22}(E)$	240	#7	10'-9"	
$n_{23}(E)$	240	#7	9'-3"	
$n_{24}(E)$	240	#7	8'-9"	
$n_{25}(E)$	180	#5	9'-0"	
$l_1(E)$	180	#9	11'-6"	
$l_2(E)$	540	#8	10'-6"	
$l_6(E)$	432	#9	15'-6"	
$l_{14}(E)$	2	#9	9'-6"	
$l_{15}(E)$	2	#9	3'-6"	
$v_{14}(E)$	90	#9	12'-4"	
$v_{15}(E)$	60	#5	17'-2"	
$v_{16}(E)$	45	#9	9'-0"	
$v_{17}(E)$	30	#5	13'-10"	
$v_{18}(E)$	30	#5	12'-4"	
$v_{19}(E)$	60	#5	10'-11"	
$v_{20}(E)$	60	#5	8'-6"	
$v_{21}(E)$	30	#5	6'-8"	
$v_{22}(E)$	90	#5	11'-2"	
$v_{23}(E)$	90	#5	9'-8"	
$v_{24}(E)$	90	#5	9'-2"	
$w_1(E)$	102	#5	31'-9"	
$w_4(E)$	396	#5	32'-7"	
$w_5(E)$	12	#5	5'-5"	
$w_7(E)$	13	#5	6'-8"	

Description	Unit	Qty
Structure Excavation	Cu Yd	1,744
Concrete Structures	Cu Yd	1,288
Concrete Superstructures	Cu Yd	106
Reinforcement Bars, Epoxy Coated	Pound	159,523
Furnishing Metal Shell Piles 12"x0.179"	Foot	9,806
Driving Piles	Foot	9,806
Test Pile Metal Shells	Each	3
Geocomposite Wall Drain	Sq Yd	1116
Pipe Underdrain	Foot	614
Form Liner	Sq Ft	5813
Granular Backfill for Structures	Cu Yd	533

DELTA ENGINEERING GROUP, LLC

USER NAME = $USER$	DESIGNED - JC	REVISED
	CHECKED - SK	REVISED
PLOT SCALE = $SCALE$	DRAWN - AA	REVISED
PLOT DATE = $DATE$	CHECKED - NS	REVISED 08/26/2016 ADDENDUM 1

FILE NAME = $FILEL$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REINFORCEMENT DETAILS & BILL OF MATERIAL
CUMBERLAND FLYOVER RAMP RETAINING WALLS
NW78.70R EB(R), NW78.80R EB(R) & NW78.90R EB(R)
SHEET NO. 12 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	396
		CONTRACT NO. 60X56		
	ILLINOIS FED. AID PROJECT			