08-04-2017 LETTING ITEM 013

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	01
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

CONTRACT #61C81

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 840
IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS
L.A. SECTION NO.: 09-00041-00-TL
PROJECT NO.: M-SRTS-4009 (082)
VILLAGE *of* PEOTONE
WILL COUNTY
JOB NO.: C-40-002-11

INDEX OF SHEETS
SEE SHEET NO. 2

HIGHWAY STANDARDS
SEE SHEET NO. 2

DESIGN DESIGNATION – IL RTE 50 ADT 20,000 (2040) – PRINCIPAL ARTERIAL
PV=19,596 SU=344 MU=60

2013 ADT – 11,000 (NORTH) / 11,000 (SOUTH)
2040 ADT – 20,000 (NORTH) / 17,000 (SOUTH)

EXISTING SPEED LIMIT – 40 MPH
PROPOSED SPEED LIMIT – 40 MPH

DESIGN PERIOD – 25 YEARS
DESIGN SPEED LIMIT – 45 MPH
STREET CLASSIFICATION – CLASS 1 ROAD

DESIGN DESIGNATION – CORNING AVENUE EAST ADT 2,000 (2040) – COLLECTOR
PV=1,919 SU=80 MU=1

DESIGN DESIGNATION – CORNING AVENUE WEST ADT 6,000 (2040) – COLLECTOR
PV=5,899 SU=101 MU=0

2013 ADT – 700 (EAST) / 1,800 (WEST)
2040 ADT – 2,000 (EAST) / 6,000 (WEST)

EXISTING SPEED LIMIT – 25 MPH
PROPOSED SPEED LIMIT – 25 MPH

DESIGN PERIOD – 25 YEARS
DESIGN SPEED LIMIT – 30 MPH
STREET CLASSIFICATION – CLASS 3 ROAD

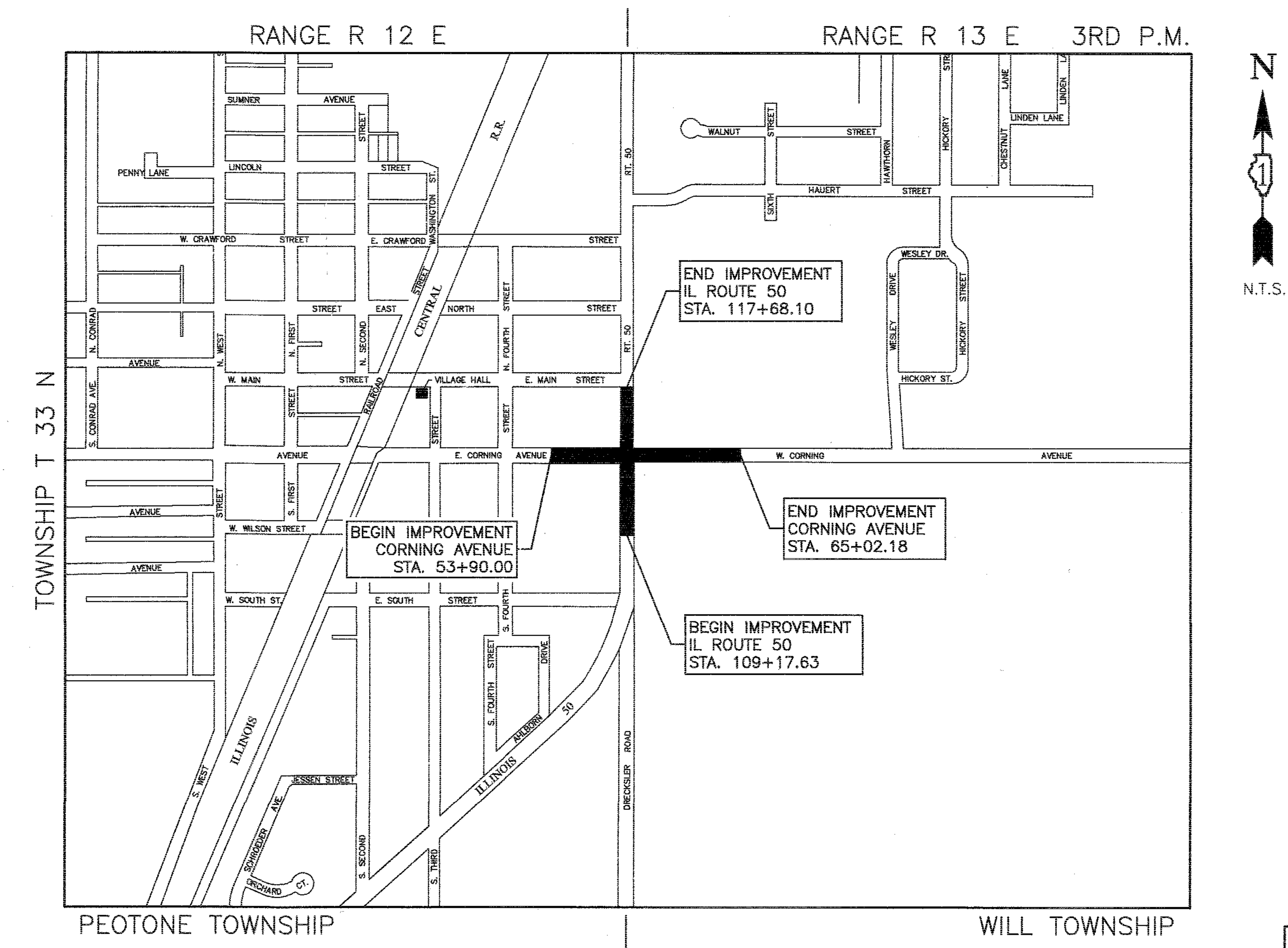
SCALES
- PLAN - 1"=50'
- PROFILE HORIZ. - 1"=50'
- PROFILE VERT. - 1"=5'
- CROSS SECTIONS - 1"=10'

0 100' 200' 300' - 1"= 100'
0 10' 20' 30' - 1"= 10'
0 50' 100' - 1"= 50'
0 50' 100' - 1"= 40'
0 50' 100' - 1"= 30'
0 50' 100' - 1"= 20'

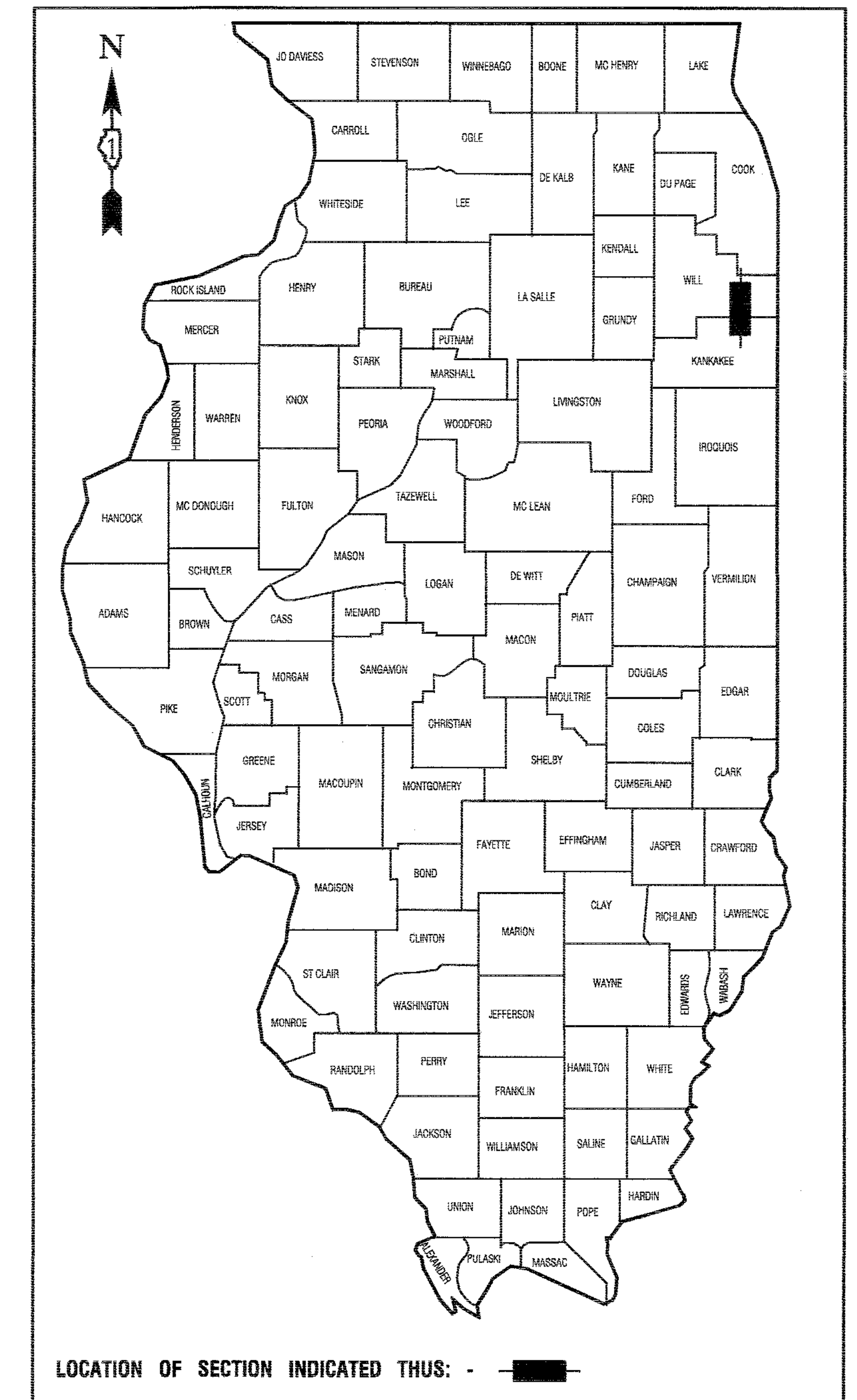
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J. U. L. I. E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1 - 800 - 892 - 0123 or 811

CONTRACT NO. 61C81



LOCATION MAP
GROSS LENGTH=1,112 FEET=0.37 MILES
NET LENGTH=1,112 FEET=0.37 MILES



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved 3-14-16
President, Village of PEOTONE.

Passed MARCH 30, 2016
CHRISTOPHER HOLT
District 1 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review April 1 2016
Region One Engineer

DESCRIPTION OF IMPROVEMENT
THIS IMPROVEMENT CONSISTS OF EARTH EXCAVATION, PAVEMENT REMOVAL, HMA WIDENING AND OVERLAY, HMA FULL DEPTH PAVEMENT, STORM SEWER CONSTRUCTION, TRAFFIC SIGNALS, AND ALL INCIDENTAL WORK AS NECESSARY TO COMPLETE THE IMPROVEMENT SHOWN HEREIN AND AS DESCRIBED IN THE SPECIFICATIONS.

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:
3-14-16

TROY A. GOLEN 062-63270 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS
LICENSE EXPIRES: 11/30/17

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROGRAM AND OFFICE ENGINEER: CHAD RIDDLE, PE, 847-705-4406, SCHAUMBURG, IL.
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

INDEX OF SHEETS

HIGHWAY STANDARDS

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602301-04	INLET TYPE A
602401-03	MANHOLE TYPE A
604001-04	FRAME AND LIDS TYPE 1
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W, WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-06	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES

1. BOTH THE ROBINSON ENGINEERING, LTD. FIELD OFFICE (708–331–6700) AND BOB HENNKE AT THE VILLAGE OF PEOTONE (708–258–3279) SHALL BE NOTIFIED TWO (2) WORKING DAYS BEFORE CONSTRUCTION BEGINS.
2. AREAS DISTURBED BY CONSTRUCTION SHALL BE KEPT TO A MINIMUM. ALL AREAS DISTURBED UNNECESSARILY SHALL BE RESTORED AS REQUIRED IN THE SPECIAL PROVISION AT THE CONTRACTOR'S EXPENSE.
3. ACCESS TO EXISTING DRIVEWAYS, PATHS, AND ALL PUBLIC FACILITIES SHALL BE MAINTAINED AT ALL TIMES BY PLACEMENT OF TEMPORARY AGGREGATE. THE CONTRACTOR SHALL PERIODICALLY MONITOR ALL AFFECTED AREAS DURING THE PROJECT, AND SHALL PLACE ADDITIONAL AGGREGATE WHEN NECESSARY.
4. UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTOR'S USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OF UTILITIES INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO EXCAVATION TO VERIFY LOCATIONS OF ALL UTILITIES. IF DETERMINED NECESSARY UTILITY RELOCATIONS SHALL BE PERFORMED BY PRIVATE UTILITY OWNERS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY SUCH ADJUSTMENTS.
5. CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS ADOPTED APRIL 1, 2016, THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. TRAFFIC CONTROL AND PROTECTION WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (SPECIAL).
6. THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR THE INDICATED ELEVATION SHOWN ON THE PLANS. FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL SURFACE ELEVATION AS PART OF THE NEW STRUCTURE COST.
7. ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
8. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTION FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY SEWER CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF VARIOUS ITEMS.
9. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT NOT TO DAMAGE EXISTING TREES.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
11. THE REMOVAL AND/OR REPLACEMENT OF ANY DRIVEWAYS, PAVEMENT, CURB, SIDEWALK, ECT. SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS ITEMS BEING REMOVED.
12. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SHALL BE REMOVED BY THE END OF EACH DAY BY THE CONTRACTOR AT THEIR EXPENSE.
13. ANY NECESSARY BUSH AND BRUSH REMOVAL/CLEARING WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
14. STANDARD SPECIFICATIONS REFER TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016 AND ALL ADDENDA AND SUPPLEMENTAL SPECIFICATIONS.
15. ANY UNSUITABLE MATERIAL SHALL NOT BE RE–USED WITHIN THE LIMITS OF THIS CONTRACT, BUT SHALL BE WASTED IN ACCORDANCE WITH ARTICLE 202.03 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
16. BEFORE ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1–800–892–0123 FOR FIELD LOCATIONS OF BURIED UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
17. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF PEOTONE.
18. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR THE VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM STATE OR VILLAGE.
19. MAILBOXES SHALL BE RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE UNITED STATES POSTAL SERVICE AND ACCORDING TO ARTICLE 107.20.
20. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE–QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.
21. A QUANTITY FOR AGGREGATE SUBGRADE IMPROVEMENT (CU YDS) HAS BEEN INCLUDED FOR LOCATIONS OF SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIALS ARE ENCOUNTERED, THE SOILS SHALL BE REMOVED AND REPLACED WITH AGGREGATE SUBGRADE IMPROVEMENT. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.
22. 10 FOOT TRANSITIONS SHALL BE USED TO MATCH VARIOUS TYPES OF GUTTER ITEMS OF WORK AS INDICATED ON THE PLANS. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
23. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 1 TRAFFIC CONTROL SUPERVISOR AT 847–705–4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
24. NO POTENTIAL UNDERCUT AREAS WERE IDENTIFIED AT THE TIME OF THE SUBSURFACE EXPLORATION. IF UNSUITABLE SOILS ARE ENCOUNTERED IN THE FIELD DURING CONSTRUCTION, IT IS RECOMMENDED THAT THE SOIL BE REMOVED AND REPLACED WITH MATERIAL MEETING THE DISTRICT ONE AGGREGATE SUBGRADE IMPROVEMENT SPECIAL PROVISION. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT SHOULD BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER OR SOILS INSPECTOR. ALL POTENTIALLY UNSTABLE SOILS SHALL BE TESTED WITH A CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. ANY MATERIAL NOT NEEDED FOR UNDERCUT REPLACEMENT AT THE TIME OF CONSTRUCTION SHOULD BE DELETED FROM THE CONTRACT WITH NO EXTRA COMPENSATION TO THE CONTRACTOR.

FILE NAME = 10405_02-INDX-01 - IDOT P01	USER NAME =	DESIGNED – TAG	REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS INDEX OF SHEETS & STATE STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED – PKB	REVISED –			840	09-00041-00-TL	WILL	57	02
	PLOT SCALE =	DRAWN – KWM	REVISED –					CONTRACT NO. 61C81		
	PLOT DATE = 03-14-16	CHECKED – AG	REVISED –		SCALE: SHEET NO. 02 OF 57 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE: ROADWAY 0004	SRTS FUNDS 100% FEDERAL SAFETY 0028	TRAINEES 0042
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	35	35		
	20101100	TREE TRUNK PROTECTION	EACH	9	9		
	20200100	EARTH EXCAVATION	CU YD	1940	1940		
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100	100		
	20800150	TRENCH BACKFILL	CU YD	105	105		
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	300	300		
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3215	3215		
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	40	40		
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	40	40		
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	40	40		
	25200110	SODDING, SALT TOLERANT	SQ YD	3215	3215		
	25200200	SUPPLEMENTAL WATERING	UNIT	20	20		
	28000400	PERIMETER EROSION BARRIER	FOOT	1300	1300		
	28000305	TEMPORARY DITCH CHECKS	FOOT	280	280		
	28000500	INLET AND PIPE PROTECTION	EACH	3	3		
	28000510	INLET FILTERS	EACH	7	7		
	28100105	STONE RIPRAP, CLASS A3	SQ YD	8	8		
	28200200	FILTER FABRIC	SQ YD	8	8		
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	100	100		
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	4250	4250		
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	1470	1470		
	35501300	HOT-MIX ASPHALT BASE COURSE, 4"	SQ YD	289	289		
	35501303	HOT-MIX ASPHALT BASE COURSE, 4 3/4"	SQ YD	1819	1819		

* - INDICATES SPECIALTY ITEMS

FILE NAME = 10405_02-QUAN-01 - IDOT P01	USER NAME =	DESIGNED - TAG	REVISED -
		CHECKED - PKB	REVISED -
	PLOT SCALE =	DRAWN - RG	REVISED -
	PLOT DATE = 03-14-16	CHECKED - AG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 03 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	03
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE: ROADWAY 0004	CONSTRUCTION TYPE CODE: SRTS FUNDS 100% FEDERAL SAFETY 0028	CONSTRUCTION TYPE CODE: TRAINEES 0042
	35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	189	189		
	35501315	HOT-MIX ASPHALT BASE COURSE, 7 3/4"	SQ YD	1897	1897		
	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	135	135		
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	200	200		
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	14350	14350		
	40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	380	380		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	74	74		
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	366	366		
	40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	630	630		
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	425	425		
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4687		4687	
	42400400	PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH	SQ FT	373		373	
	42400800	DETECTABLE WARNINGS	SQ FT	80		80	
	44000100	PAVEMENT REMOVAL	SQ YD	1820	1820		
	44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SQ YD	4893	4893		
	44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	801	801		
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	806	806		
	44000300	CURB REMOVAL	FOOT	409	409		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	678	678		
	44000600	SIDEWALK REMOVAL	SQ FT	2872		2872	
	44201725	CLASS D PATCHES, TYPE I, 7 INCH	SQ YD	10	10		
	44201729	CLASS D PATCHES, TYPE II, 7 INCH	SQ YD	25	25		
	44201733	CLASS D PATCHES, TYPE III, 7 INCH	SQ YD	20	20		

* - INDICATES SPECIALTY ITEMS

FILE NAME = 10405_02-QUAN-01 - IDOT P02	USER NAME =	DESIGNED - TAG	REVISED -
		CHECKED - PKB	REVISED -
	PLOT SCALE =	DRAWN - RG	REVISED -
	PLOT DATE = 03-14-16	CHECKED - AG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 04 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	04
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
						SRTS FUNDS 100% FEDERAL	
					ROADWAY 0004	SAFETY 0028	TRAINEES 0042
	44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	200	200		
	44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	10	10		
	44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	15	15		
	44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	20	20		
	44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	50	50		
	48300505	PORTLAND CEMENT CONCRETE SHOULDERS 10 1/4"	SQ YD	59		59	
	50105220	PIPE CULVERT REMOVAL	FOOT	20	20		
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	3	3		
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	533	533		
	55100400	STORM SEWER REMOVAL 10"	FOOT	5	5		
	55100500	STORM SEWER REMOVAL 12"	FOOT	69	69		
	55100900	STORM SEWER REMOVAL 18"	FOOT	4	4		
*	56400825	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	3	3		
*	56500200	DOMESTIC WATER SERVICE BOXES TO BE MOVED	EACH	2	2		
*	56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	3	3		
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2	2		
	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1409	1409		
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	3	3		
	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	1		
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	3	3		
	60255500	MANHOLES TO BE ADJUSTED	EACH	4	4		
	60262700	INLETS TO BE RECONSTRUCTED	EACH	1	1		

* - INDICATES SPECIALTY ITEMS

FILE NAME = 10405_02-QUAN-01 - IDOT P03

USER NAME =	DESIGNED - TAG	REVISED -
	CHECKED - PKB	REVISED -
PLOT SCALE =	DRAWN - RG	REVISED -
PLOT DATE = 03-14-16	CHECKED - AG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 05 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	05
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE: ROADWAY 0004	CONSTRUCTION TYPE CODE: SRTS FUNDS 100% FEDERAL SAFETY 0028	CONSTRUCTION TYPE CODE: TRAINEES 0042
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1		
	60500060	REMOVING INLETS	EACH	1	1		
	60500305	FILLING INLETS	EACH	2	2		
	60600605	CONCRETE CURB, TYPE B	FOOT	400	400		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1100	1100		
	60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	265	265		
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	570	570		
*	66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1		
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
	67100100	MOBILIZATION	LSUM	1	1		
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	35	35		
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	1070		1070	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	360		360	
	70300904	PAVEMENT MARKING TAPE, TYPE IV, 4"	FOOT	4140		4140	
*	72000100	SIGN PANEL - TYPE 1	SQ FT	66		66	
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	5		5	
*	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	3		3	
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	145		145	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	146		146	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8485		8485	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	590		590	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	585		585	

* - INDICATES SPECIALTY ITEMS

FILE NAME = 10405_02-QUAN-01 - IDOT P04

USER NAME =	DESIGNED - TAG	REVISED -	
	CHECKED - PKB	REVISED -	
PLOT SCALE =	DRAWN - RG	REVISED -	
PLOT DATE = 03-14-16	CHECKED - AG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 06 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	06
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE: ROADWAY 0004	CONSTRUCTION TYPE CODE: SRTS FUNDS 100% FEDERAL SAFETY 0028	CONSTRUCTION TYPE CODE: TRAINEES 0042
*	78000650	THERMOPLASTIC PAVEMENT MARKING – LINE 24"	FOOT	125		125	
*	78001110	PAINT PAVEMENT MARKING – LINE 4"	FOOT	100		100	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	76		76	
*	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	40		40	
*	80500020	SERVICE INSTALLATION – POLE MOUNTED	EACH	1		1	
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	790		790	
*	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2–1/2" DIA.	FOOT	76		76	
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	156		156	
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	382		382	
*	81400100	HANDHOLE	EACH	5		5	
*	81400200	HEAVY–DUTY HANDHOLE	EACH	4		4	
*	81400300	DOUBLE HANDHOLE	EACH	2		2	
*	85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	4		4	
*	85100800	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	4		4	
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 2C	FOOT	1251		1251	
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 3C	FOOT	1315		1315	
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 5C	FOOT	1205		1205	
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 7C	FOOT	1469		1469	
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD–IN, NO. 14 1 PAIR	FOOT	2445		2445	
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	101		101	
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	619		619	
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	4		4	
*	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1	

* – INDICATES SPECIALTY ITEMS

FILE NAME = 10405_02-QUAN-01 - IDOT P05

USER NAME =	DESIGNED – TAG	REVISED –
	CHECKED – PKB	REVISED –
PLOT SCALE =	DRAWN – RG	REVISED –
PLOT DATE = 03-14-16	CHECKED – AG	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 07 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	07
		CONTRACT NO. 61C81		

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

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE: ROADWAY 0004	CONSTRUCTION TYPE CODE: SRTS FUNDS 100% FEDERAL SAFETY 0028	CONSTRUCTION TYPE CODE: TRAINEES 0042
*	87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	3		3	
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16	
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4	
*	87800400	CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	54		54	
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6		6	
*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		4	
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4		4	
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8	
*	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10		10	
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8	
*	88600100	DETECTOR LOOP, TYPE I	FOOT	1175		1175	
*	88700200	LIGHT DETECTOR	EACH	2		2	
*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1	
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8	
	Z0007510	ENGINEERED BARRIER	SQ YD	210	210		
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52		52	
	Z0076600	TRAINEES	HOUR	500			500
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500
	K0036120	MULCH PLACEMENT 4"	SQ YD	20	20		
	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	1	1		
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	503		503	
*	X0327024	FIRE HYDRANTS TO BE REMOVED & SALVAGED	EACH	3	3		
*	X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4		4	

* - INDICATES SPECIALTY ITEMS

FILE NAME = 10405_02-QUAN-01 - IDOT P06	USER NAME =	DESIGNED - TAG	REVISED -
		CHECKED - PKB	REVISED -
	PLOT SCALE =	DRAWN - RG	REVISED -
	PLOT DATE = 03-14-16	CHECKED - AG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 08 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	08
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE: ROADWAY 0004	CONSTRUCTION TYPE CODE: SRTS FUNDS 100% FEDERAL SAFETY 0028	CONSTRUCTION TYPE CODE: TRAINEES 0042
	X0350810	BOLLARD REMOVAL	EACH	2	2		
*	X1400107	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1		1	
	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	7	7		
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1		
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28		28	
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	1380		1380	
	X7240300	SIGN REMOVAL	EACH	1		1	
*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1	
	XX001621	BRICK PAVER REMOVAL	SQ FT	90	90		
*	XX008662	REMOVE EXISTING LIGHT POLE	EACH	1		1	

* - INDICATES SPECIALTY ITEMS

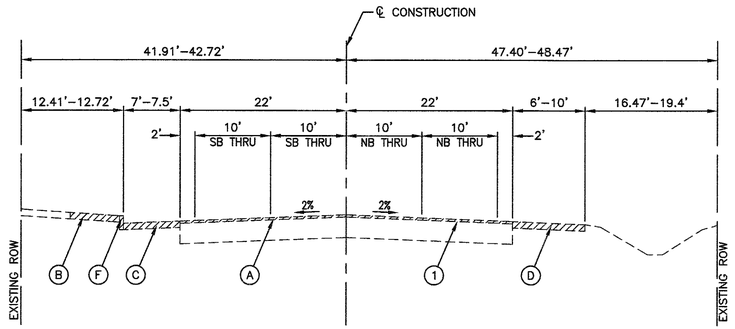
FILE NAME = 10405_02-QUAN-01 - IDOT P07	USER NAME =	DESIGNED - TAG	REVISED -
		CHECKED - PKB	REVISED -
	PLOT SCALE =	DRAWN - RG	REVISED -
	PLOT DATE = 03-14-16	CHECKED - AG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
SUMMARY OF QUANTITIES

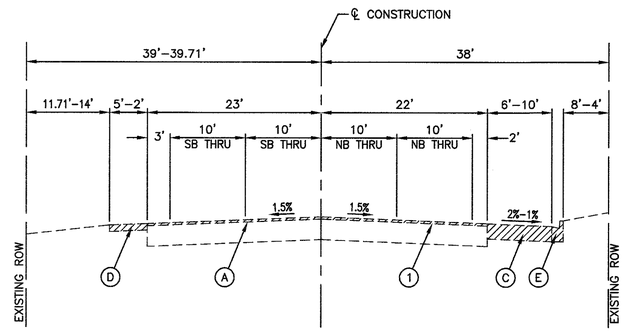
SCALE: NONE | SHEET NO. 09 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	09
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



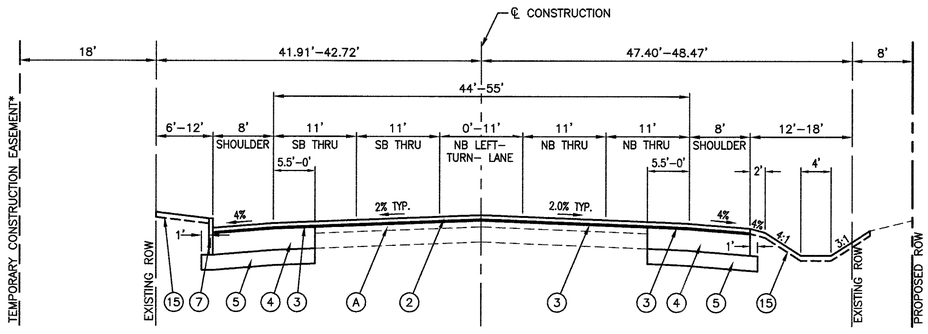
EXISTING TYPICAL SECTION

IL RTE 50 - SOUTH LEG
STA. 109+17.63 TO STA. 113+43



EXISTING TYPICAL SECTION

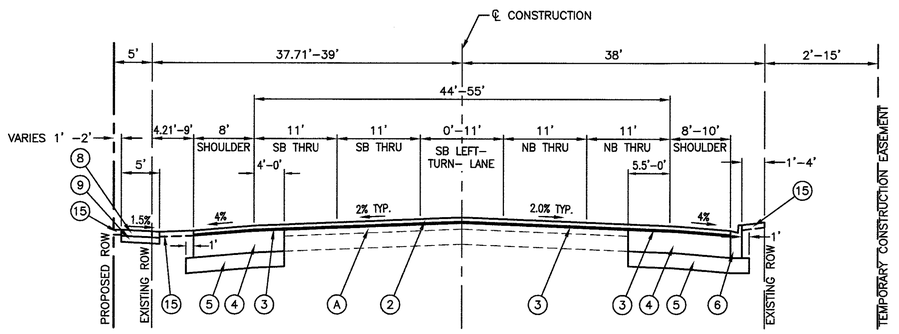
IL RTE 50 - NORTH LEG
STA. 113+43 TO STA. 117+68.10



*STA 111+39 TO STA 112+93

PROPOSED TYPICAL SECTION

IL RTE 50 - SOUTH LEG
STA. 109+17.63 TO STA. 113+43



PROPOSED TYPICAL SECTION

IL RTE 50 - NORTH LEG
STA. 113+43 TO STA. 117+68.10

LEGEND

Ⓐ	EXISTING HMA PAVEMENT	①	PROPOSED HMA SURFACE REMOVAL – ½"
Ⓑ	EXISTING PAVED PARKWAY	②	PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 – 1–¾"
Ⓒ	EXISTING HMA SHOULDER	③	PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL–4.75, N50 – ¾"
Ⓓ	EXISTING AGGREGATE SHOULDER	④	PROPOSED HMA BASE COURSE (HMA BINDER IL–19MM), N70 – 7–¾"
Ⓔ	EXISTING CURB AND GUTTER	⑤	PROPOSED AGGREGATE SUBGRADE IMPROVEMENT – 12"
Ⓕ	EXISTING BARRIER CURB	⑥	PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B–6.12
Ⓖ	EXISTING SIDEWALK	⑦	PROPOSED CONCRETE CURB, TYPE B
▨	ITEM TO BE REMOVED	⑧	PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 5"
		⑨	AGGREGATE BASE COURSE, TYPE B – 4"
		⑩	PROPOSED HMA SURFACE REMOVAL – 1–½"
		⑪	PROPOSED HMA SURFACE COURSE, MIX "D", N50 – 1–½"
		⑫	PROPOSED HMA SURFACE COURSE, MIX "D", N50 – 2"
		⑬	PROPOSED HMA BASE COURSE (HMA BINDER IL–19MM), N50 – 4–¾"
		⑭	PROPOSED HMA SHOULDER (HMA BINDER IL–19MM), N50 – 4"
		⑮	TOPSOIL – 4", SODDING, SALT TOLERANT

NOTE: THE CONTRACTOR SHALL MILL BEFORE PATCHING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	**AIR VOIDS @ Ndes**
PAVEMENT AND PAVEMENT WIDENING - IL RTE 50	
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5MM); 1-3/4"	4% @ 70 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 3/4"	3.5% @ 50 Gyr.
HMA BASE COURSE (HMA BINDER IL-19MM); 7-3/4" (2 LIFTS)	4% @ 70 Gyr.
PAVEMENT RESURFACING - IL RTE 50	
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5MM); 1-3/4"	4% @ 70 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 3/4"	3.5% @ 50 Gyr.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 MM); 7" (CORNING AVE.), 8" (IL RTE 50)	4% @ 70 Gyr.
PAVEMENT RESURFACING - CORNING AVE (WEST LEG)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 1-1/2"	4% @ 50 Gyr.
FULL DEPTH PAVEMENT - CORNING AVE (EAST LEG)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER, IL 19MM); 4-3/4" (2 LIFTS)	4% @ 50 Gyr.
SHOULDER - CORNING AVE (EAST LEG)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 2"	4% @ 50 Gyr.
HMA SHOULDER (HMA BINDER IL-19MM); 4" (2 LIFTS)	4% @ 50 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19.0MM), PE -6 INCH, CE -8 INCH	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76–22" AND FOR NON–POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64–22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS, FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

EARTHWORK TABLE		
TOTAL CUT (EARTH EXCAVATION)	1940	CY
TOTAL FILL	115	CY
CUT TO FILL (15% SHRINKAGE)	133	CY
EXCESS MATERIAL TO BE HAULED AWAY	1804	CY

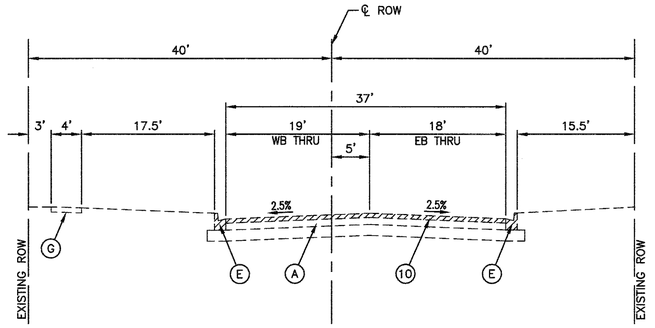
FILE NAME = 10405_02-TYPX-01 - IDOT P01	USER NAME =	DESIGNED – TAG	REVISED –
		CHECKED – PKB	REVISED –
	PLOT SCALE =	DRAWN – KWM	REVISED –
	PLOT DATE = 03-14-16	CHECKED – AG	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
TYPICAL CROSS SECTIONS

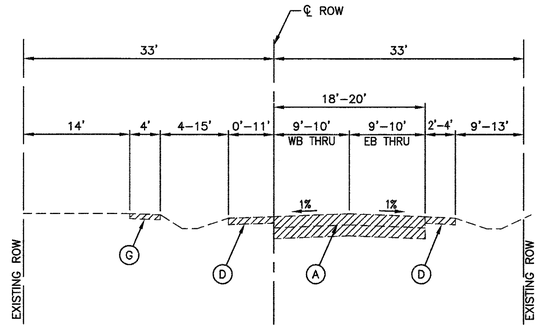
SCALE: | SHEET NO. 10 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	10
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



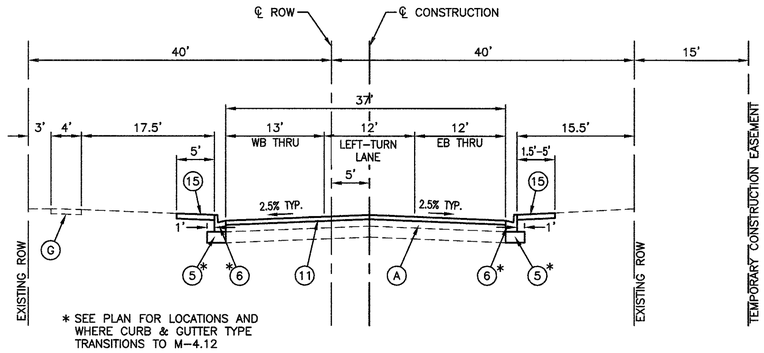
EXISTING TYPICAL SECTION

CORNING AVENUE - WEST LEG
STA. 54+69.06 TO STA. 55+77.80



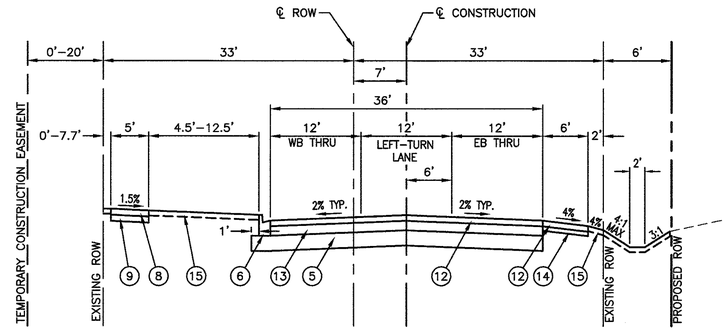
EXISTING TYPICAL SECTION

CORNING AVENUE - EAST LEG
STA. 60+27.45 TO STA. 65+02.17



PROPOSED TYPICAL SECTION

CORNING AVENUE - WEST LEG
STA. 54+69.06 TO STA. 55+77.80



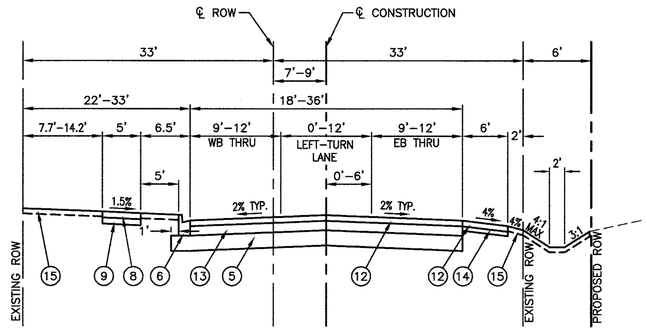
PROPOSED TYPICAL SECTION

CORNING AVENUE - EAST LEG
STA. 60+27.45 TO STA. 61+87.17

LEGEND

(A)	EXISTING HMA PAVEMENT
(B)	EXISTING PAVED PARKWAY
(C)	EXISTING HMA SHOULDER
(D)	EXISTING AGGREGATE SHOULDER
(E)	EXISTING CURB AND GUTTER
(F)	EXISTING BARRIER CURB
(G)	EXISTING SIDEWALK
▨	ITEM TO BE REMOVED

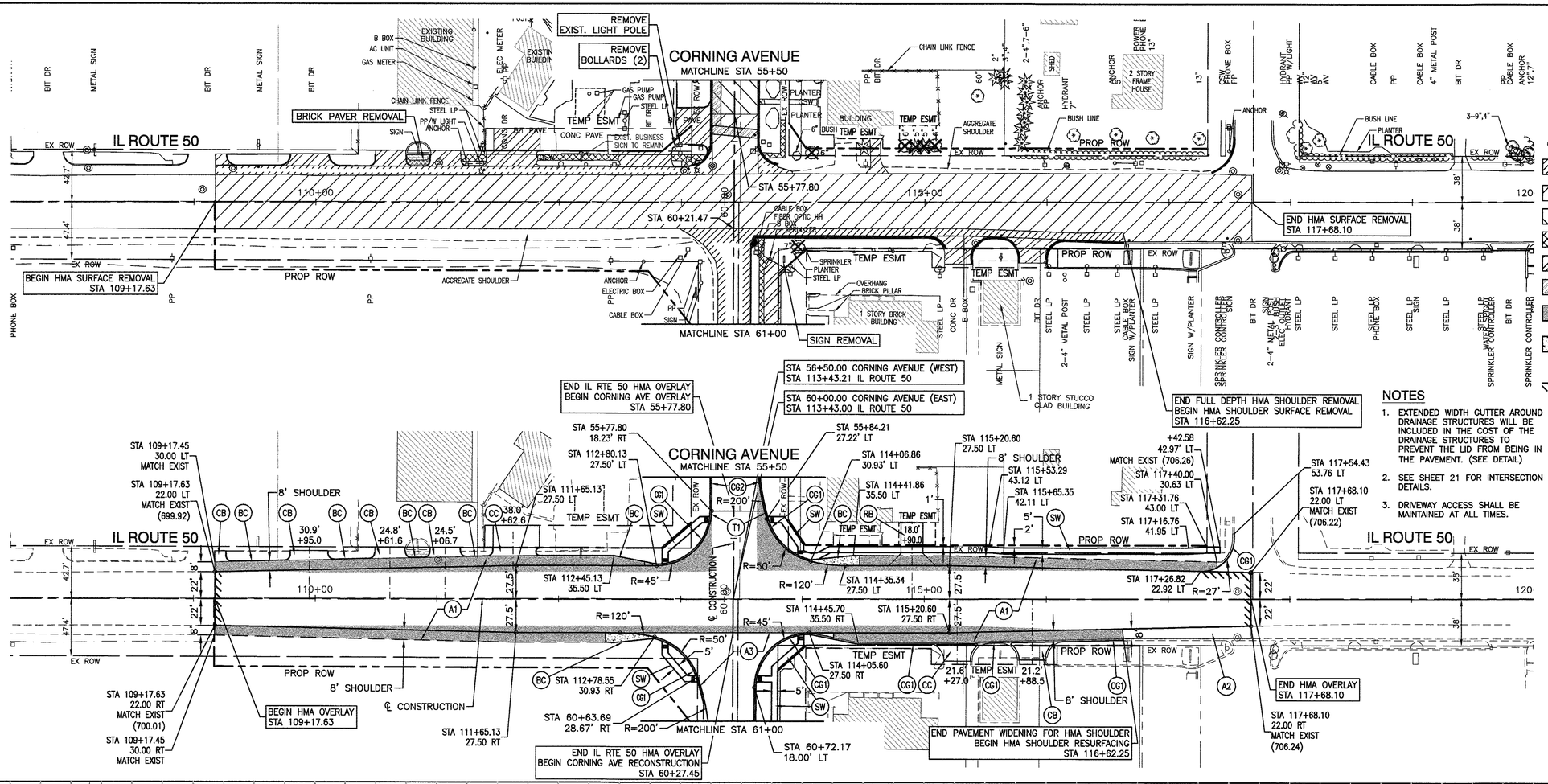
(1)	PROPOSED HMA SURFACE REMOVAL – ½"
(2)	PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 – 1–¾"
(3)	PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL–4.75, N50 – ¾"
(4)	PROPOSED HMA BASE COURSE (HMA BINDER IL–19MM), N70 – 7–¾"
(5)	PROPOSED AGGREGATE SUBGRADE IMPROVEMENT– 12"
(6)	PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B–6.12
(7)	PROPOSED CONCRETE CURB, TYPE B
(8)	PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 5"
(9)	AGGREGATE BASE COURSE, TYPE B – 4"
(10)	PROPOSED HMA SURFACE REMOVAL – 1–½"
(11)	PROPOSED HMA SURFACE COURSE, MIX "D", N50 – 1–½"
(12)	PROPOSED HMA SURFACE COURSE, MIX "D", N50 – 2"
(13)	PROPOSED HMA BASE COURSE (HMA BINDER IL–19MM), N50 – 4–¾"
(14)	PROPOSED HMA SHOULDER (HMA BINDER IL–19MM), N50 – 4"
(15)	TOPSOIL – 4", SODDING, SALT TOLERANT



PROPOSED TYPICAL SECTION

CORNING AVENUE - EAST LEG
STA. 61+87.18 TO STA. 65+02.17

FILE NAME = 10405_02-TYPX-01 - IDOT P01 (2)	USER NAME =	DESIGNED – TAG	REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS TYPICAL CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED – PKB	REVISED –			840	09-00041-00-TL	WILL	57	11
	PLOT SCALE =	DRAWN – KWM	REVISED –					CONTRACT NO. 61C81		
	PLOT DATE = 03-14-16	CHECKED – AG	REVISED –		SCALE: SHEET NO. 11 OF 57 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



LEGEND

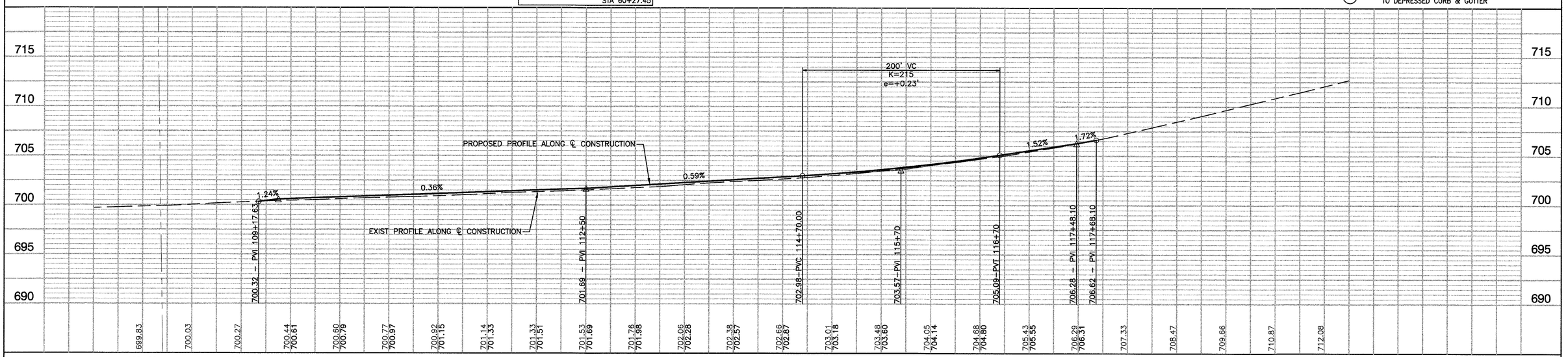
- TREE TO BE REMOVED (SIZE AS NOTED)
- TREE TRUNK PROTECTION
- CONC CURB & GUTTER REMOVAL AND/OR CURB REMOVAL
- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL (IL RTE 50) – 1/2"
- HOT-MIX ASPHALT SURFACE REMOVAL (CORNING AVE) – 1.5"
- CONCRETE SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- CLASS "D" PATCHES – 7"
- IL RTE 50 PAVEMENT WIDENING (SEE TYPICAL CROSS SECTIONS)
- PCC SHOULDERS, 10–1/4" AGGREGATE SUBGRADE, 12"
- DETECTABLE WARNINGS
- BUTT JOINT
- (A1) POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1–3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL–4.75, N50–3/4"
- (A2) HMA SHOULDER TO BE RESURFACED, 1–3/4"
- (A3) CORNING AVENUE RECONSTRUCTION (SEE TYPICAL CROSS SECTIONS)
- (BC) BARRIER CURB
- (CB) HOT-MIX ASPHALT DRIVEWAY (COMMERCIAL ENTRANCE) HOT-MIX ASPHALT BASE COURSE, 8" HOT-MIX SURFACE COURSE, IL–9.5, MIX "D", N50, 2" AGGREGATE BASE COURSE, TYPE B, 4"
- (CC) PCC CONCRETE DRIVEWAY (COMMERCIAL ENTRANCE) PCC DRIVEWAY PAVEMENT, 7" AGGREGATE BASE COURSE, TYPE B, 4"
- (RB) HOT-MIX ASPHALT DRIVEWAY (PRIVATE ENTRANCE) HOT-MIX ASPHALT BASE COURSE, 6" HOT-MIX SURFACE COURSE, IL–9.5, MIX "D", N50, 2" AGGREGATE BASE COURSE, TYPE B, 4"
- (CC1) COMB CONC CURB & GUTTER, TYPE B–6.12
- (CG2) COMB CONC CURB & GUTTER, TYPE M–4.12
- (HMA) HMA SHOULDER (SEE TYPICAL CROSS SECTIONS)
- (SW) PCC SIDEWALK, 5" (7" THROUGH DRIVEWAYS) AGGREGATE BASE COURSE, TYPE B, 4"
- (T1) 10' TRANSITION FROM CURB & GUTTER TYPE B–6.12 TO CURB & GUTTER TYPE M–4.12
- (T2) 10' TRANSITION FROM CURB & GUTTER TYPE B–6.12 TO DEPRESSED CURB & GUTTER

NOTES

1. EXTENDED WIDTH GUTTER AROUND DRAINAGE STRUCTURES WILL BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURES TO PREVENT THE LID FROM BEING IN THE PAVEMENT. (SEE DETAIL)
2. SEE SHEET 21 FOR INTERSECTION DETAILS.
3. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

PLAN — SURVEYED — BY; DRAWN — BY; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; DATE

PROFILE — SURVEYED — BY; DRAWN — BY; GRADES CHECKED; B.M. NOTED; NOTE BOOK; DATE



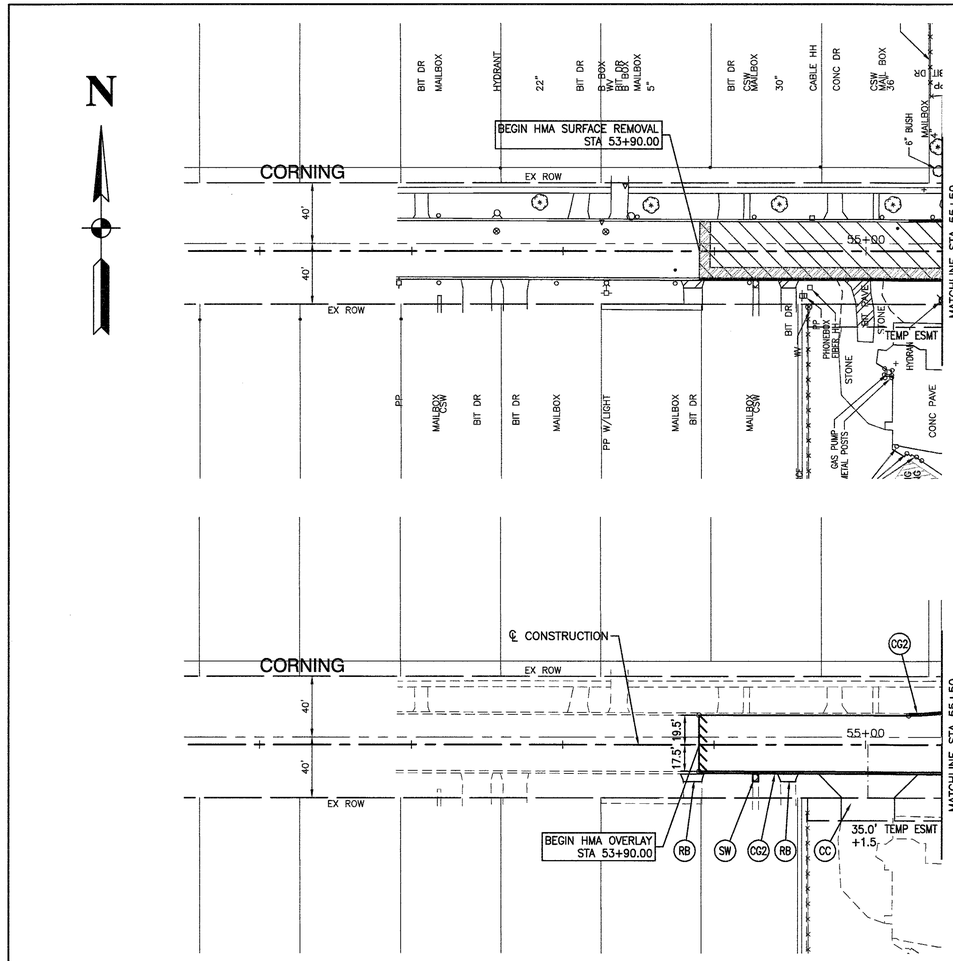
FILE NAME = 10405_02-PLPR-01 - IDOT PLPR01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — KWM	REVISED —
LAST SAVED BY: KMOHR ON 10/13/16 PLOTTED BY: KEVIN MUHN ON 10/14/16	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

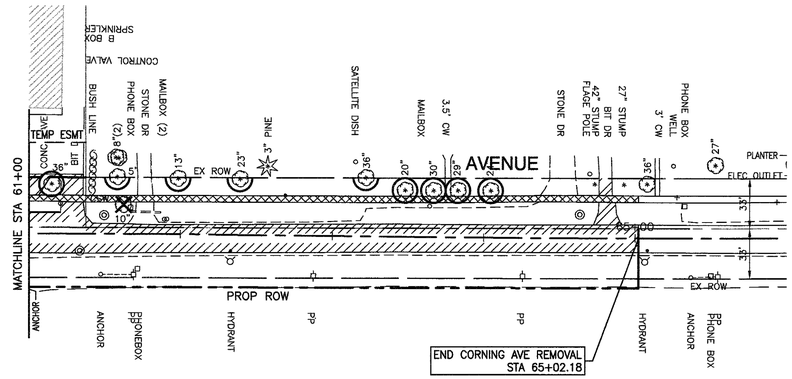
INTERSECTION IMPROVEMENTS
IL ROUTE 50 AT CORNING AVENUE
PLAN AND PROFILE

SCALE: H 1"=50' V 1"=5' | SHEET NO. 12 OF 57 SHEETS | STA. | TO STA.

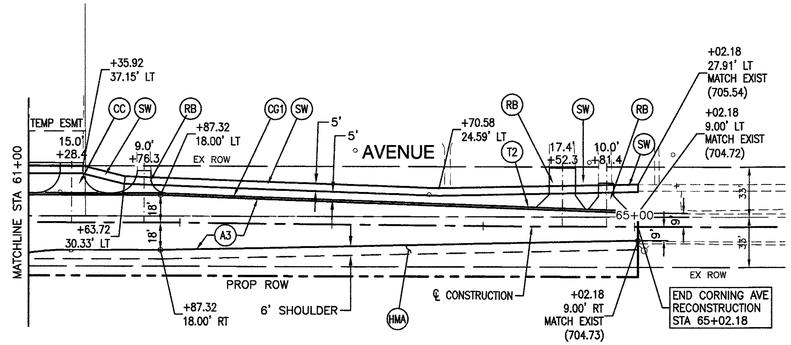
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	12
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



IL ROUTE 50



IL ROUTE 50



LEGEND

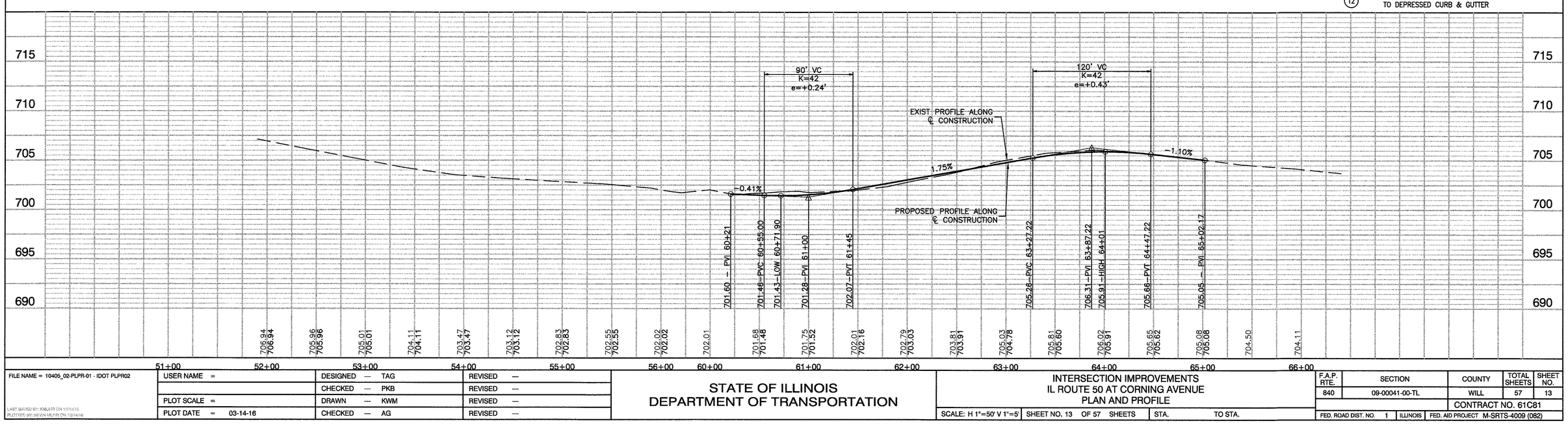
- TREE TO BE REMOVED (SIZE AS NOTED)
- TREE TRUNK PROTECTION
- CONC CURB & GUTTER REMOVAL AND/OR CURB REMOVAL
- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL (IL RTE 50) – 1/2"
- HOT-MIX ASPHALT SURFACE REMOVAL (CORNING AVE) – 1.5"
- CONCRETE SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- CLASS "D" PATCHES – 7"
- IL RTE 50 PAVEMENT WIDENING (SEE TYPICAL CROSS SECTIONS)
- PCC SHOULDERS, 10–1/4" AGGREGATE SUBGRADE, 12"
- DETECTABLE WARNINGS
- BUTT JOINT
- (A1) POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1–3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50–3/4"
- (A2) HMA SHOULDER TO BE RESURFACED, 1–3/4"
- (A3) CORNING AVENUE RECONSTRUCTION (SEE TYPICAL CROSS SECTIONS)
- (BC) BARRIER CURB
- (CB) HOT-MIX ASPHALT DRIVEWAY (COMMERCIAL ENTRANCE) HOT-MIX ASPHALT BASE COURSE, 8" HOT-MIX SURFACE COURSE, IL-9.5, MIX "D", N50, 2" AGGREGATE BASE COURSE, TYPE B, 4"
- (CC) PCC CONCRETE DRIVEWAY (COMMERCIAL ENTRANCE) PCC DRIVEWAY PAVEMENT, 7" AGGREGATE BASE COURSE, TYPE B, 4"
- (RB) HOT-MIX ASPHALT DRIVEWAY (PRIVATE ENTRANCE) HOT-MIX ASPHALT BASE COURSE, 6" HOT-MIX SURFACE COURSE, IL-9.5, MIX "D", N50, 2" AGGREGATE BASE COURSE, TYPE B, 4"
- (CG1) COMB CONC CURB & GUTTER, TYPE B-6.12
- (CG2) COMB CONC CURB & GUTTER, TYPE M-4.12
- (HMA) HMA SHOULDER (SEE TYPICAL CROSS SECTIONS)
- (SW) PCC SIDEWALK, 5" (7" THROUGH DRIVEWAYS) AGGREGATE BASE COURSE, TYPE B, 4"
- (T1) 10' TRANSITION FROM CURB & GUTTER TYPE B-6.12 TO CURB & GUTTER TYPE M-4.12
- (T2) 10' TRANSITION FROM CURB & GUTTER TYPE B-6.12 TO DEPRESSED CURB & GUTTER

PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
		RT. OF WAY CHECKED
		CADD FILE NAME
		NOTE BOOK
		NO.

PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		GRADES CHECKED
		B.M. NOTED
		NOTE BOOK



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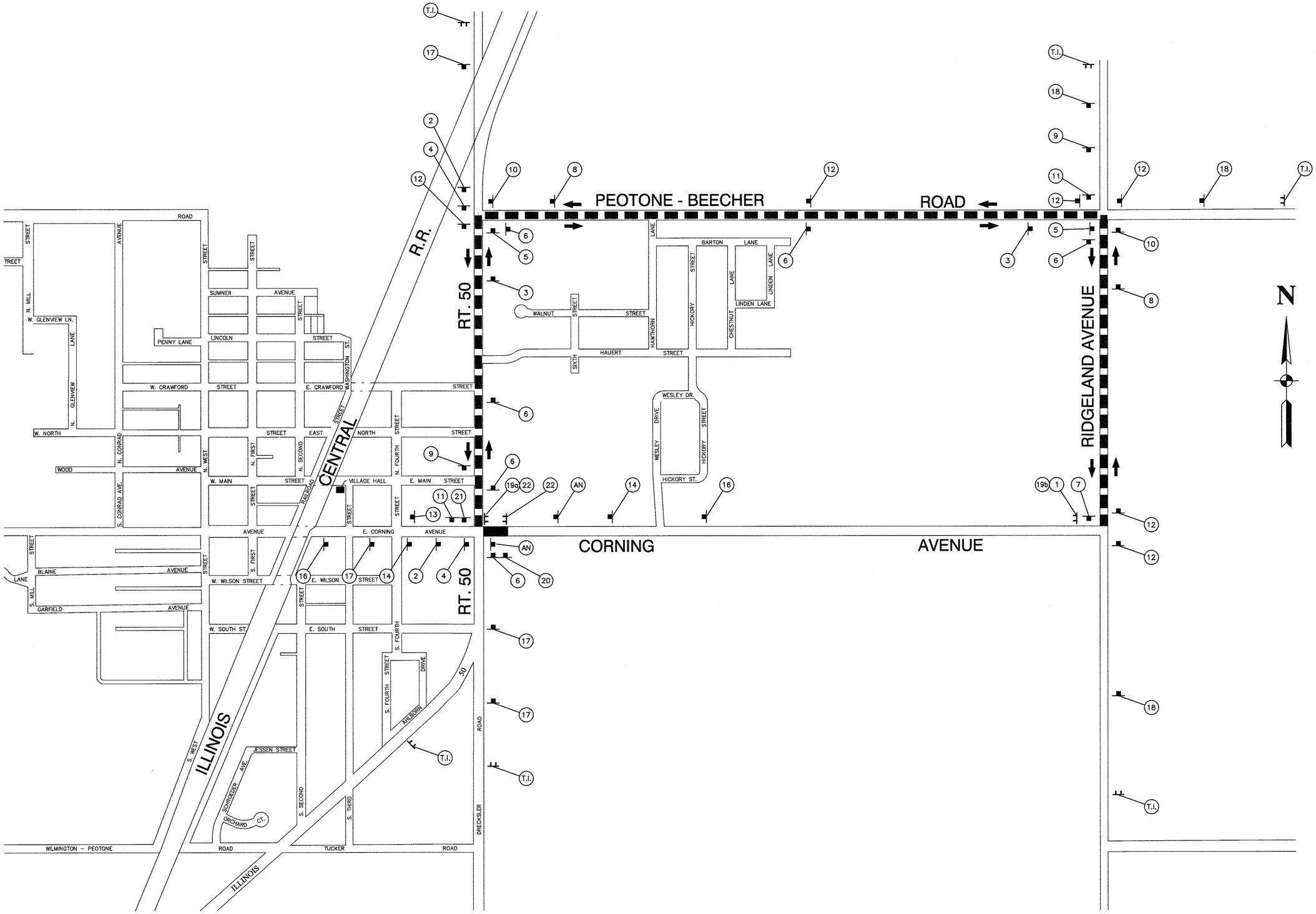
		CHECKED – PKB	REVISED –		
	PLOT SCALE =	DRAWN – KWM	REVISED –		
LAST SAVED BY: KMUHR ON 10/13/16 PLOTTED BY: KEVIN MUHR ON 10/14/16	PLOT DATE = 03-14-16	CHECKED – AG	REVISED –		SCALE: H 1"=50' V 1"=5' | SHEET NO. 13 OF 57 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	13
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



FILE NAME = 10405_02-DETR-01 - IDOT P01	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS DETOUR PLAN
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — KWM	REVISED —		
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —		SCALE: SHEET NO. 14 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	14
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

(1) R11-3a 60"X30"

(2) M3-2 24"X12" / D3-1 30"X12" / M4-9 24"X30"

(3) M3-2 24"X12" / D3-1 30"X12" / M4-9 24"X30"

(4) M3-2 24"X12" / D3-1 30"X12" / M4-9L 30"X24"

(5) M3-2 24"X12" / D3-1 30"X12" / M4-9R 30"X24"

(6) M3-2 24"X12" / D3-1 30"X12" / M4-9 24"X30"

(7) M3-2 24"X12" / D3-1 30"X12" / M4-8a 24"X18"

(8) M3-4 24"X12" / D3-1 30"X12" / M4-9 24"X30"

(9) M3-4 24"X12" / D3-1 30"X12" / M4-9 24"X30"

(10) M3-4 24"X12" / D3-1 30"X12" / M4-9L 30"X24"

(11) M3-4 24"X12" / D3-1 30"X12" / M4-9R 30"X24"

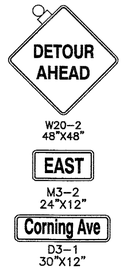
(12) M3-4 24"X12" / D3-1 30"X12" / M4-9 24"X30"

(13) M3-4 24"X12" / D3-1 30"X12" / M4-8a 24"X18"

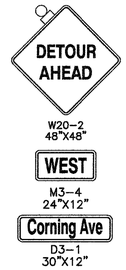
(14) W20-3 48"X48"

(15) W20-2 48"X48"

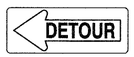
(16) W20-3 48"X48"



(17) W20-2 48"X48" / M3-2 24"X12" / D3-1 30"X12"



(18) W20-2 48"X48" / M3-4 24"X12" / D3-1 30"X12"



(19a) M4-10L 48"X18"

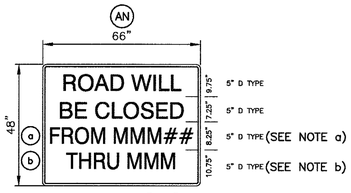
(19b) M4-10R 48"X18"

(20) R3-1 24"X24"

(21) R3-2 24"X24"

(22) R11-2 48"X30" TYPE III BARRICADES (2) OR MORE

(T.I) 48"X30"



AN-C100 – 48"X66"

NOTE:
a) OVERLAY PANEL (a) TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION.

b) OVERLAY PANEL (b) TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR.

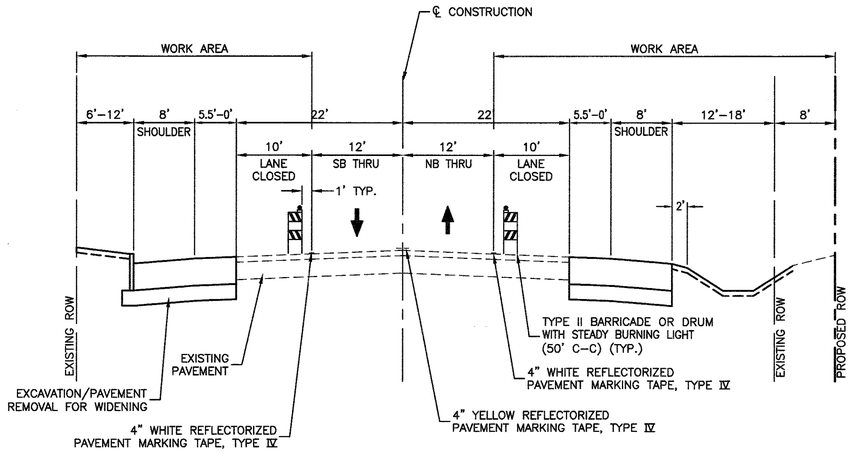
LEGEND

- TYPE III BARRICADE
- SIGN, POST-MOUNTED, PER ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS.
- DETOUR ROUTE
- DIRECTION OF TRAFFIC
- CONSTRUCTION AREA CLOSED TO ALL TRAFFIC (TEMPORARY)

GENERAL DETOUR NOTES

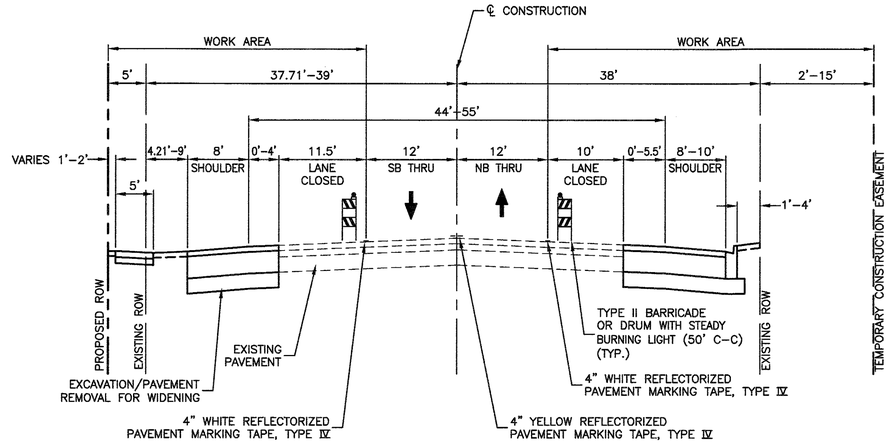
1. THIS DETOUR ROUTE WILL BE IN EFFECT DURING CONSTRUCTION WHEN TRAFFIC ON CORNING AVENUE IS CLOSED. CORNING AVENUE TRAFFIC WILL BE DETOURED VIA RIDGELAND AVENUE, PEOTONE-BEECHER ROAD AND IL ROUTE 50.
2. ERECT SIGN ASSEMBLY (AN) (POST MOUNTED) WITH PANELS (a) AND (b) IN PLACE AS SHOWN ON DETOUR PLAN TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE. REMOVE ASSEMBLY AS THE DETOUR ROUTE IS IN OPERATION.
3. ALL SIGNS, BARRICADES, SIGN'S LIGHTS & FLAGS SHALL BE IN ACCORDANCE WITH THOSE INDICATED IN TRAFFIC CONTROL STANDARDS OF MUTCD & STANDARD SPECIFICATIONS.
4. THE VILLAGE OF PEOTONE AND I.D.O.T. (DISTRICT 1) SHALL BE NOTIFIED TWO (2) WEEKS IN ADVANCE PRIOR TO THE OPERATION OF THIS DETOUR ROUTE FOR THE SUBJECT CONSTRUCTION.
5. "D3-1" SIGNS SHALL HAVE 6" BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
6. "AN" SIGN AND ALL OTHERS SHALL HAVE BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND. (WITH EXCEPTION OF (20) AND (21))

FILE NAME = 10405_02-DETR-01 - IDOT P02	USER NAME =	DESIGNED – TAG	REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS DETOUR PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED – PKB	REVISED –					840	09-00041-00-TL	WILL	57	15
	PLOT SCALE =	DRAWN – KWM	REVISED –							CONTRACT NO. 61C81		
	PLOT DATE = 03-14-16	CHECKED – AG	REVISED –		SCALE:	SHEET NO. 15 OF 57 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



STAGE 1 - MAINTENANCE OF TRAFFIC
TYPICAL SECTION

IL RTE 50 - SOUTH LEG
STA. 109+17.63 TO STA. 113+43



STAGE 1 - MAINTENANCE OF TRAFFIC
TYPICAL SECTION

IL RTE 50 - NORTH LEG
STA. 113+43 TO STA. 117+68.10

SUGGESTED CONSTRUCTION STAGING NOTES

PRE–STAGE

- MILL IL RTE 50 BETWEEN THE LIMITS SHOWN ON THE PLAN AND PROFILE SHEETS AND THEN PATCH AS REQUIRED.

STAGE 1

- MAINTAIN 1 – 12' WIDE NORTHBOUND AND 1 – 12' WIDE SOUTHBOUND LANES (CENTER LANES) ON IL RTE 50 AS SHOWN ON THE SUGGESTED STAGING PLAN; UTILIZING HIGHWAY STANDARD 701606–10.
- THE 2 OUTSIDE LANES WILL BE CLOSED ADJACENT TO THE EXCAVATION/PAVEMENT REMOVAL BEING PERFORMED FOR THE PROPOSED WIDENING UNTIL THE WIDENING BASE COURSE IS IN PLACE. OTHER WORK BEING PERFORMED THIS STAGE WILL INCLUDE CURB & GUTTER, DRIVEWAYS, SIDEWALK, DITCHES AND DRAINAGE IMPROVEMENTS, ETC.
- THE EAST LEG OF CORNING AVENUE WILL BE CLOSED DURING THIS STAGE FOR THE ROADWAY RECONSTRUCTION (SEE DETOUR PLAN).

STAGE 2

- PLACE LEVELING BINDER AND SURFACE COURSE ON IL RTE 50 BETWEEN THE LIMITS SHOWN ON THE PLAN AND PROFILE SHEETS.
- PLACE FINAL PAVEMENT MARKINGS AND SIGNAGE.
- INSTALL TRAFFIC SIGNALS.
- PERFORM FINAL GRADING AND RESTORATION.

FILE NAME = 10405_02-TCON-TYPX-01 - IDOT P01	USER NAME =	DESIGNED – TAG	REVISED –
		CHECKED – PKB	REVISED –
	PLOT SCALE =	DRAWN – KWM	REVISED –
	PLOT DATE = 03-14-16	CHECKED – AG	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
SUGGESTED CONSTRUCTION STAGING - TYPICAL CROSS SECTIONS

SCALE: | SHEET NO. 16 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	16
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

N

ROAD CONSTRUCTION AHEAD
W20-I103-48
48"X48"

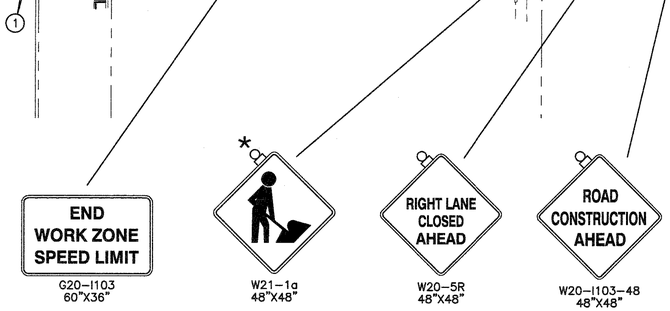
RIGHT LANE CLOSED AHEAD
W20-5R
48"X48"

*
W21-1a
48"X48"

END WORK ZONE SPEED LIMIT
G20-I103
60"X36"

W21-I115
36"X18"
WORK ZONE
SPEED LIMIT 40
PHOTO ENFORCED
R2-1
36"X48"
R2-I106
36"X18"
$XXX FINE MINIMUM
R2-1
36"X48"

EX ROW
IL ROUTE 50
PROP ROW
℄ CONSTRUCTION
TEMP ESMT
CORNING AVENUE
110+00
115+00
120+00
12'
150'
200'
270'
STA. 106+47.63
STA. 109+17.63
STA. 117+67.43
STA. 120+37.43



LEGEND

- (1) 4" YELLOW REFLECTORIZED PAVEMENT MARKING TAPE, TYPE IV
- (2) 4" WHITE REFLECTORIZED PAVEMENT MARKING TAPE, TYPE IV
- WORK AREA
- TYPE II BARRICADE OR DRUM WITH STEADY BI-DIRECTIONAL BURNING LIGHT (50' C-C)
- TYPE III BARRICADE WITH STEADY BURNING LIGHT
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURNING LIGHT (50' C-C)
- ARROW BOARD
- * ONLY WHEN WORKERS ARE PRESENT FOR MORE THAN ONE HOUR

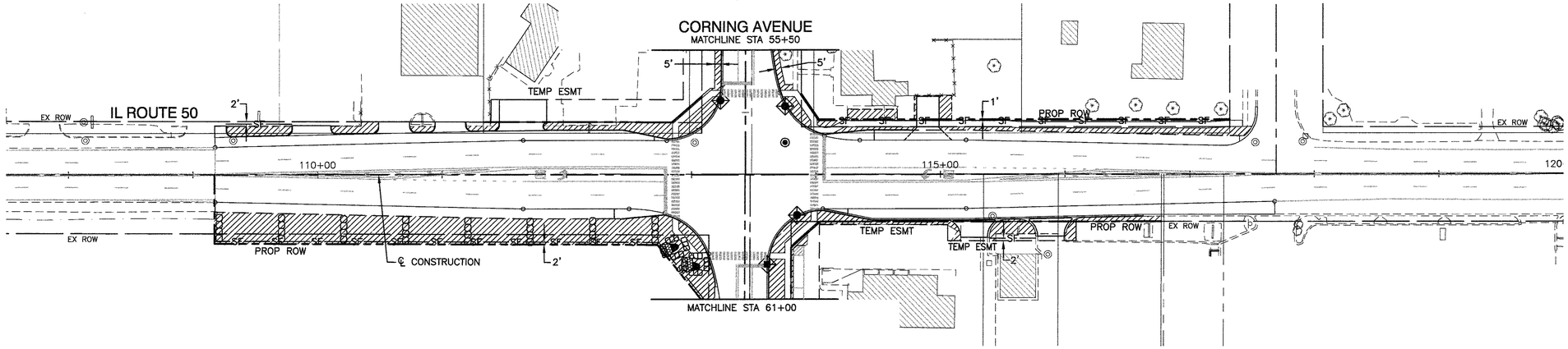
FILE NAME = 10405_02-TCON-01 - IDOT P01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — KWM	REVISED —
	PLOT DATE = 03-14-16	CHECKED — APG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
SUGGESTED CONSTRUCTION STAGING - STAGE 1

SCALE: 1"=50' | SHEET NO. 17 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	17
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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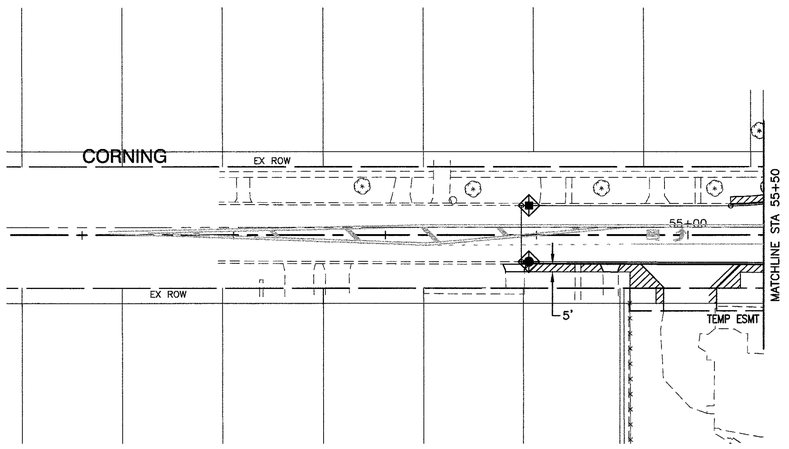
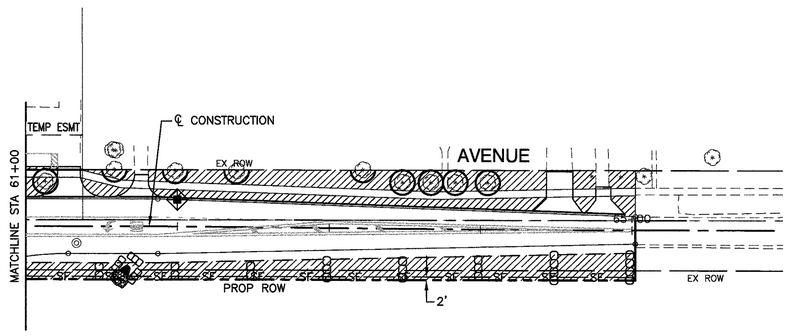


IL ROUTE 50



N

NOTE:

CONTRACTOR SHALL PROVIDE SPADE EDGES FOR ALL SODDING AREA ABUTTING EXISTING TREES BY MAINTAINING A MINIMUM 5' DIAMETER MULCH BED AROUND EACH EXISTING TREE.

KEY	ITEM NAME
——SF——	PERIMETER EROSION BARRIER
	TREE TRUNK PROTECTION
	INLET FILTER
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECKS
	FILTER FABRIC STONE RIP RAP (CLASS A3)
	SODDING, SALT TOLERANT

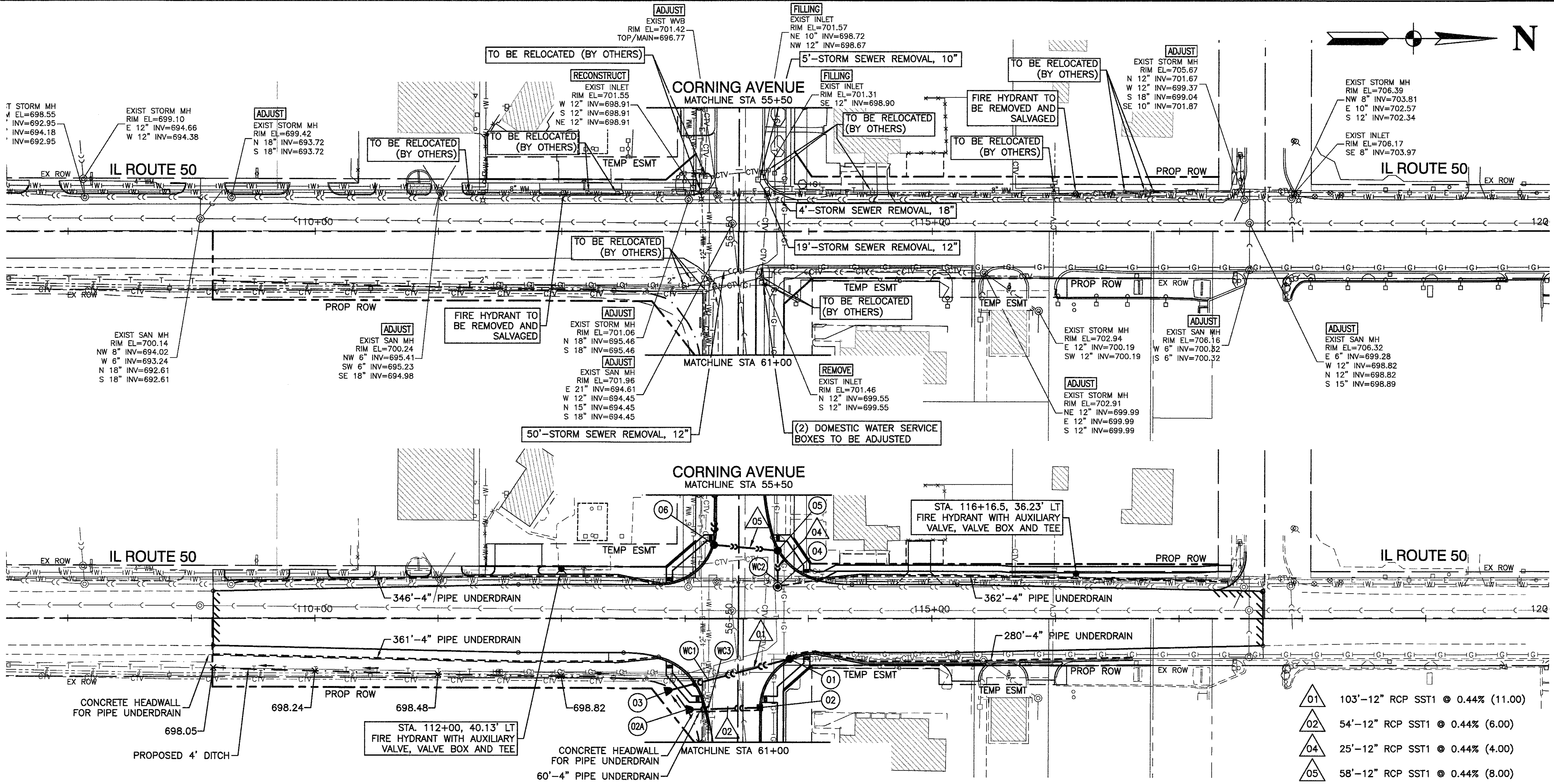
FILE NAME = 10405_02-LNSC-01 - IDOT P01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — KWM	REVISED —
	PLOT DATE = 03-14-16	CHECKED — APG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
LANDSCAPING & EROSION CONTROL

SCALE: 1"=50' | SHEET NO. 18 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	18
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



01 STA 113+84.8, 32.61' RT
CB TC, 2' DIA T1F OL
RIM EL=701.70
EX. N 12" INV=699.61
S 12" INV=699.56

02 STA 60+71.9, 18.00' LT
IN TA, 2' DIA T1F OL
RIM EL=701.34
S 12" INV=699.42

02A STA 60+73.1, 41.75' RT
12" RCP FES
N 12" INV=699.16

03 STA 60+57.7, 53.32' RT
12" RCP FES
N 12" INV=699.11

04 STA 113+75.1, 25.79' LT
MH TA, 4' DIA T1F CL
RIM EL=701.88
W 12" INV=698.38
EX. N 18" INV=696.06
EX. S 18" INV=696.06

05 STA 113+75.2, 54.90' LT
CB TA, 4' DIA T1F OL
RIM EL=701.60
E 12" INV=698.49
S 12" INV=698.49

06 STA 113+23.3, 59.62' LT
CB TA, 4' DIA T1F OL
RIM EL=701.60
N 12" INV=698.74
W 12" INV=698.74

WATERMAIN CROSSINGS

- WC1: T/P WATERMAIN=696.77; B/P 12" RCP STORM SEWER=699.32
- WC2: T/P WATERMAIN=696.77; B/P 12" RCP STORM SEWER=698.38
- WC3: T/P WATERMAIN=696.77; B/P 12" RCP STORM SEWER=699.23

NOTES

1. ALL OFFSETS AND ELEVATIONS TO CURB LINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS AND ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE FLARED END. ALL OTHER OFFSETS AND ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
2. (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL.
3. ALL STORM SEWERS SHALL HAVE WATERMAIN QUALITY JOINTS.
4. THE CONNECTION OF PROPOSED DRAINAGE STRUCTURES TO EXISTING STORM SEWERS WILL BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE.

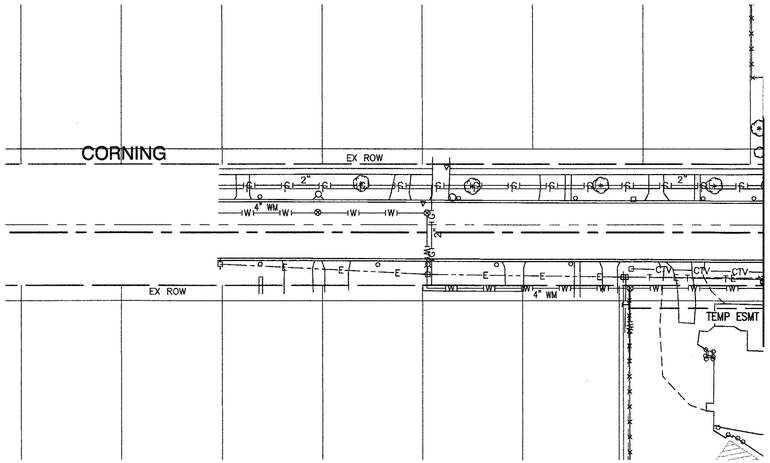
- 01: 103'-12" RCP SST1 @ 0.44% (11.00)
- 02: 54'-12" RCP SST1 @ 0.44% (6.00)
- 04: 25'-12" RCP SST1 @ 0.44% (4.00)
- 05: 58'-12" RCP SST1 @ 0.44% (8.00)

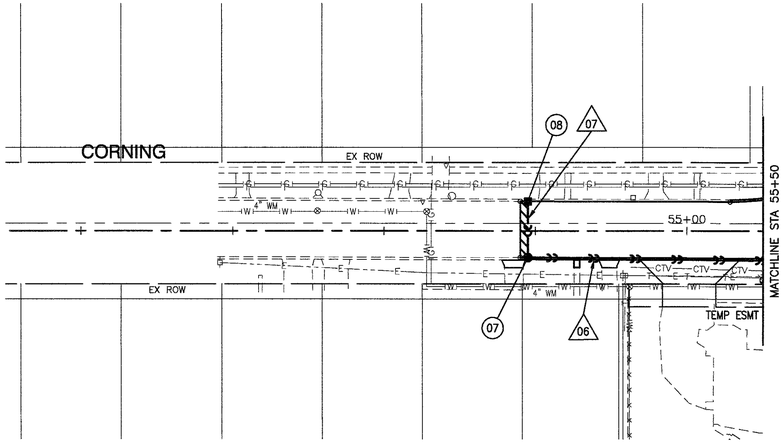
FILE NAME = 10405_02-STRM-01 - IDOT PLPR01	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION IMPROVEMENTS IL ROUTE 50 AT CORNING AVENUE DRAINAGE & UTILITIES
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — RG	REVISED —		
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —		SCALE: H 1"=50' V 1"=5' SHEET NO. 19 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	19
		CONTRACT NO. 61C81		

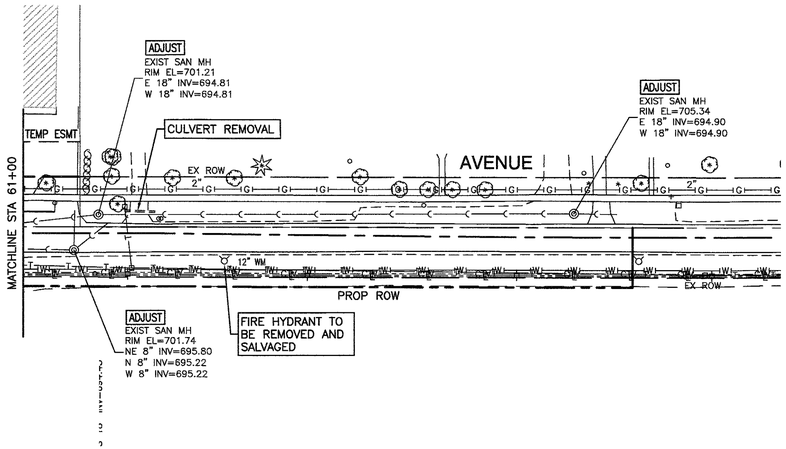
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-SRTS-4009 (082)

PLAN
SURVEYED BY
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

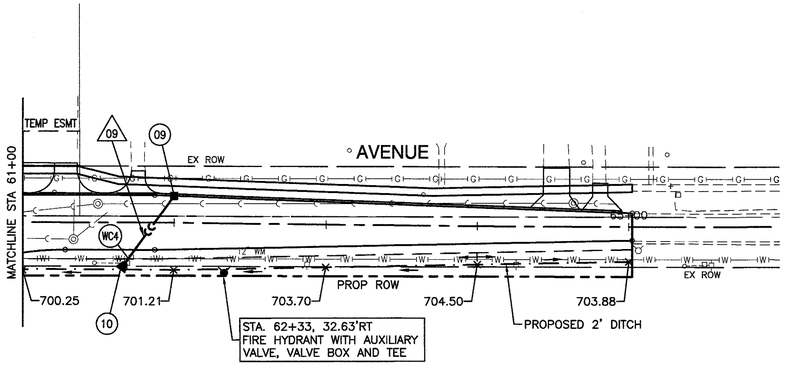


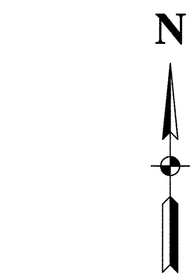


IL ROUTE 50



IL ROUTE 50





07
STA 53+95.0, 17.55' RT
CB TA, 4' DIA T1F OL
RIM EL=702.90
E 12" INV=699.60
N 12" INV=699.60

08
STA 53+95.0, 19.48' LT
IN TA, 2' DIA T1F OL
RIM EL=703.25
S 12" INV=699.76

09
STA 62+00.0, 17.66' LT
IN TA, 2' DIA T1F OL
RIM EL=702.67
SW 12" INV=700.75

10
STA 61+64.7, 30.95' RT
12" RCP FES
NE 12" INV=700.49

06 195'–12" RCP SST1 @ 0.44% (16.00)

07 38'–12" RCP SST1 @ 0.44% (5.00)

09 60'–12" RCP SST1 @ 0.44% (8.00)

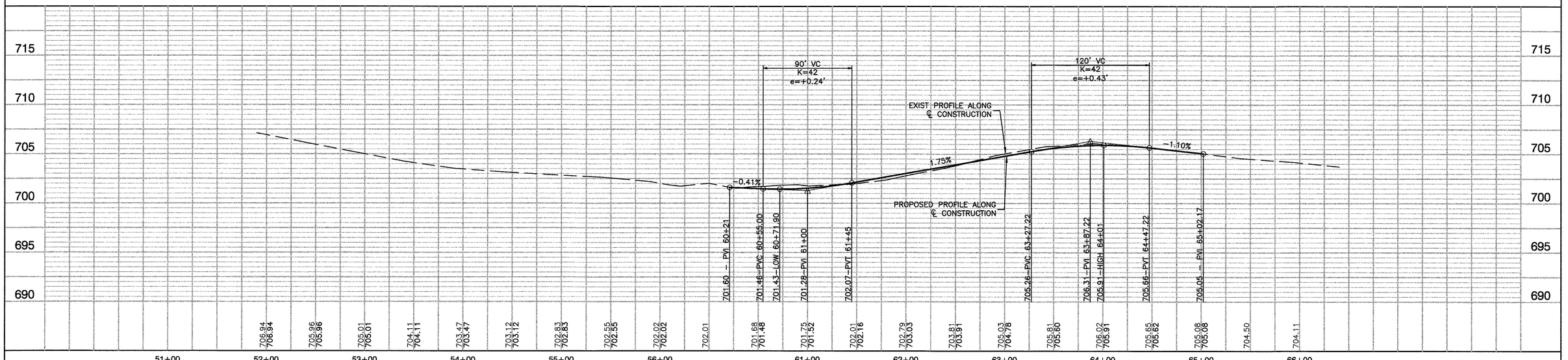
WATERMAIN CROSSINGS

WC4 T/P WATERMAIN=695.50
B/P 12" RCP STORM SEWER=700.51

NOTES

1. ALL OFFSETS AND ELEVATIONS TO CURB LINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS AND ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE FLARED END. ALL OTHER OFFSETS AND ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
2. (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL.
3. ALL STORM SEWERS SHALL HAVE WATERMAIN QUALITY JOINTS.
4. THE CONNECTION OF PROPOSED DRAINAGE STRUCTURES TO EXISTING STORM SEWERS WILL BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE.

PROFILE
SURVEYED BY
PLOTTED
GRADES CHECKED
B.M. NOTED
NOTE BOOK
BY
DATE



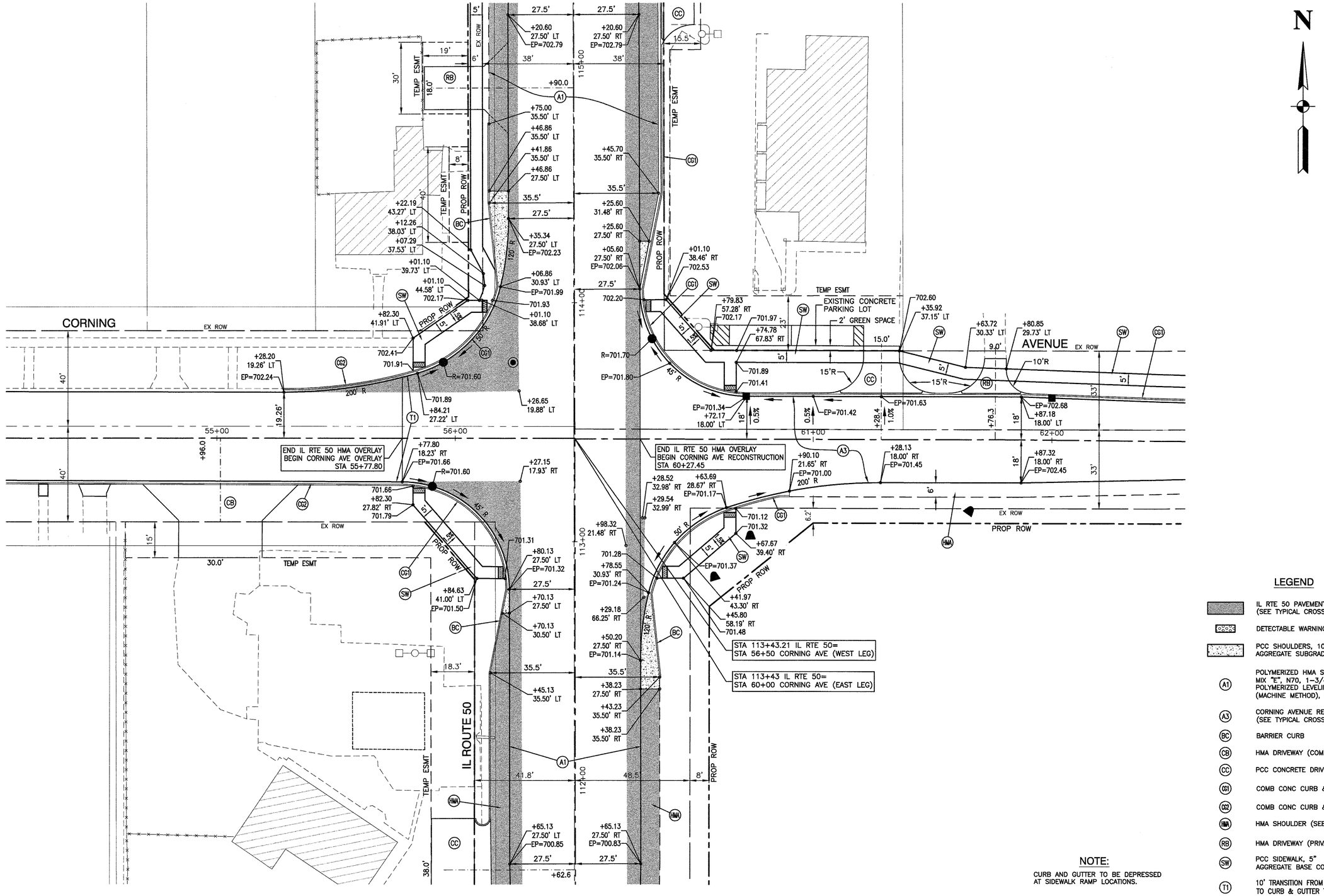
FILE NAME = 10405_02-STRM-01 - IDOT PLPR02	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
LAST SAVED BY: KWUHR ON 10/13/16 PLOTTED BY: KEVIN WUHR ON 10/14/16	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION IMPROVEMENTS
IL ROUTE 50 AT CORNING AVENUE
DRAINAGE & UTILITIES

SCALE: H 1"=50' V 1"=5' | SHEET NO. 20 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	20
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



LEGEND

- IL RTE 50 PAVEMENT WIDENING (SEE TYPICAL CROSS SECTIONS)
- DETECTABLE WARNINGS (SF)
- PCC SHOULDERS, 10–1/4" AGGREGATE SUBGRADE, 12"
- (A1) POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1–3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL–4.75, N50–3/4"
- (A3) CORNING AVENUE RECONSTRUCTION (SEE TYPICAL CROSS SECTIONS)
- (BC) BARRIER CURB
- (CB) HMA DRIVEWAY (COMMERCIAL ENTRANCE)
- (CC) PCC CONCRETE DRIVEWAY (COMMERCIAL ENTRANCE)
- (CG1) COMB CONC CURB & GUTTER, TYPE B–6.12
- (CG2) COMB CONC CURB & GUTTER, TYPE M–4.12
- (HMA) HMA SHOULDER (SEE TYPICAL CROSS SECTIONS)
- (RB) HMA DRIVEWAY (PRIVATE ENTRANCE)
- (SW) PCC SIDEWALK, 5" AGGREGATE BASE COURSE, TYPE B, 4"
- (T1) 10' TRANSITION FROM CURB & GUTTER TYPE B–6.12 TO CURB & GUTTER TYPE M–4.12

NOTE:
CURB AND GUTTER TO BE DEPRESSED AT SIDEWALK RAMP LOCATIONS.

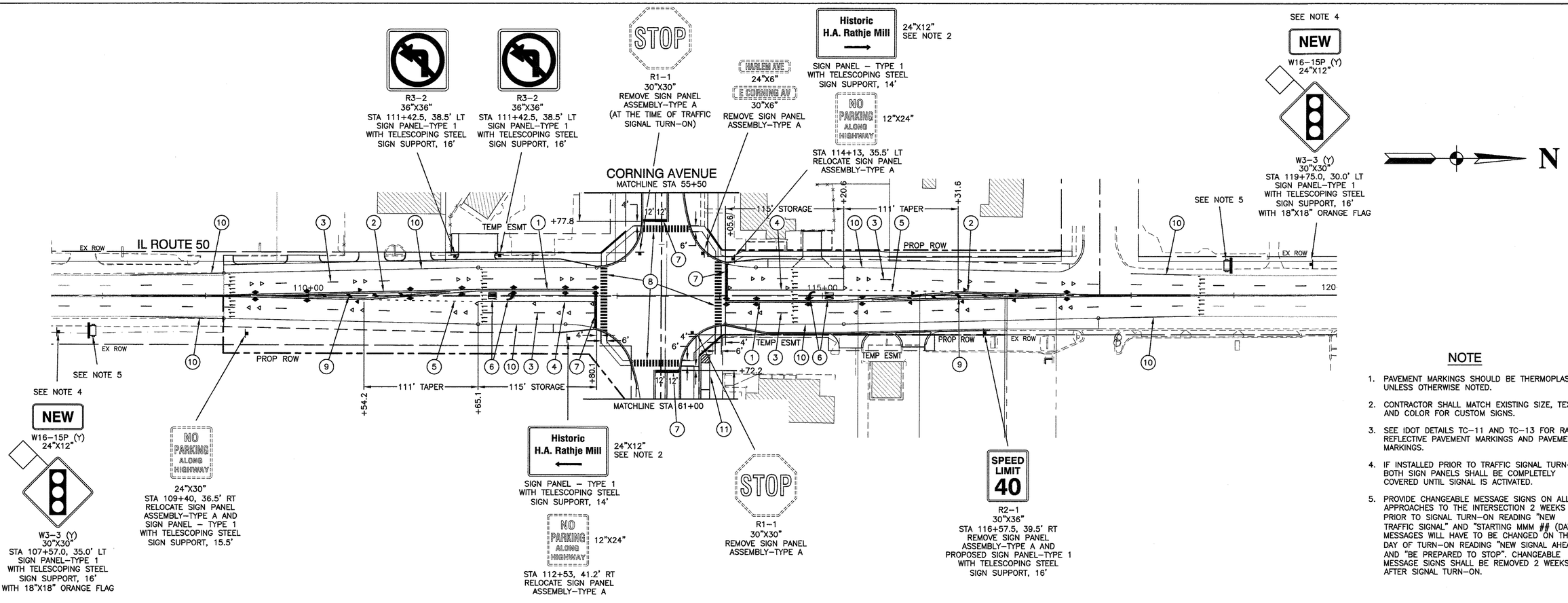
FILE NAME = 10405_02-PLAN-01 - IDOT P01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — KWM	REVISED —
	PLOT DATE = 03-14-16	CHECKED — APG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
INTERSECTION DETAIL

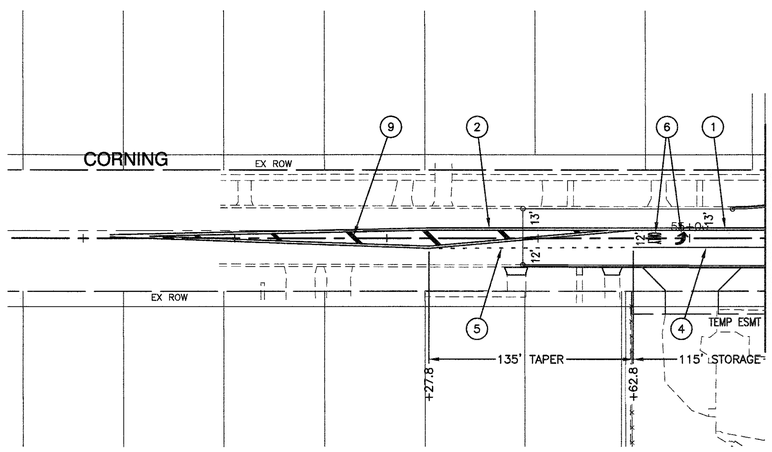
SCALE: 1" = 20' | SHEET NO. 21 OF 57 SHEETS | STA. | TO STA.

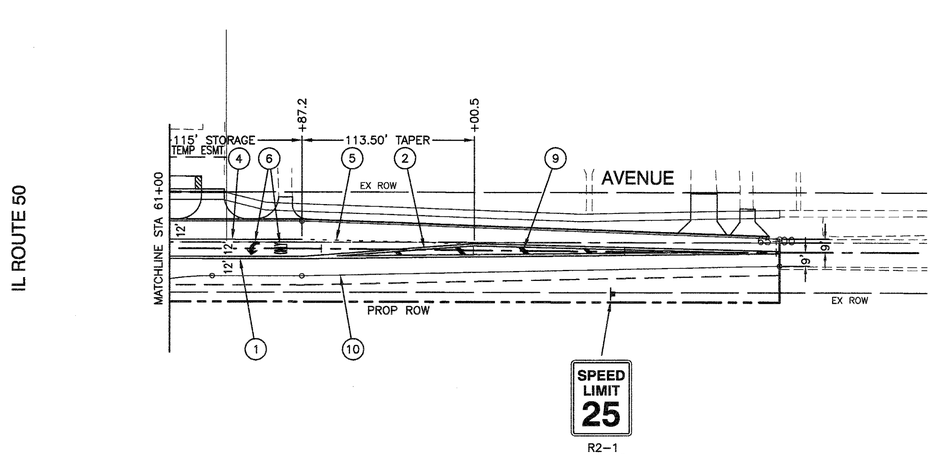
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	21
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



NOTE

1. PAVEMENT MARKINGS SHOULD BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL MATCH EXISTING SIZE, TEXT AND COLOR FOR CUSTOM SIGNS.
3. SEE IDOT DETAILS TC-11 AND TC-13 FOR RAISED REFLECTIVE PAVEMENT MARKINGS AND PAVEMENT MARKINGS.
4. IF INSTALLED PRIOR TO TRAFFIC SIGNAL TURN-ON, BOTH SIGN PANELS SHALL BE COMPLETELY COVERED UNTIL SIGNAL IS ACTIVATED.
5. PROVIDE CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES TO THE INTERSECTION 2 WEEKS PRIOR TO SIGNAL TURN-ON READING "NEW TRAFFIC SIGNAL" AND "STARTING MMM ## (DATE)". MESSAGES WILL HAVE TO BE CHANGED ON THE DAY OF TURN-ON READING "NEW SIGNAL AHEAD" AND "BE PREPARED TO STOP". CHANGEABLE MESSAGE SIGNS SHALL BE REMOVED 2 WEEKS AFTER SIGNAL TURN-ON.





N

LEGEND

1. 4" DOUBLE YELLOW CENTERLINE (11" C/C)
2. 4" DOUBLE YELLOW MEDIAN OUTLINE (11" C/C)
3. 4" WHITE SKIP DASH (10' LINE, 30' SPACE)
4. 6" WHITE LANE LINE
5. 6" WHITE SKIP DASH (2' LINE, 6' BLANK)
6. WHITE LETTERS & SYMBOLS
7. 24" WHITE STOP BAR
8. 12" WHITE LINES (3' C/C)
9. 12" YELLOW DIAGONAL
10. 4" WHITE EDGE LINE
11. 4" YELLOW PARKING LINE (PAINT)

ONE-WAY CRYSTAL MARKER 80' C/C UNLESS OTHERWISE NOTED.

ONE-WAY AMBER MARKERS 40' C/C UNLESS OTHERWISE NOTED.

TWO-WAY AMBER MARKERS 40' C/C UNLESS OTHERWISE NOTED.

CHANGEABLE MESSAGE SIGN

FILE NAME = 10405_02-PMKG-01 - IDOT P01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — KWM	REVISED —
	PLOT DATE = 03-14-16	CHECKED — APG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
PAVEMENT MARKING & SIGNING

SCALE: 1"=50' | SHEET NO. 22 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	22
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		RR	RR
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ◄Y ◄G	R Y G ◄Y ◄G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD. "RB" INDICATES REFLECTIVE BACKPLATE		R Y G ◄Y ◄G "P"	R Y G ◄Y ◄G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		36F	36F
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
QUEUE DETECTOR		Q	Q
PREFORMED QUEUE DETECTOR		PQ	PQ
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET	RR	RR
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

FILE NAME = 10405_02-SGNL_DTLS-01 - P01	USER NAME = footemj	DESIGNED — DAG/BCK	REVISED — DAG 1-1-14
		CHECKED — BCK	REVISED —
	PLOT SCALE = 50.0000 ' / in.	DRAWN — DAD	REVISED —
	PLOT DATE = 1/13/2014	CHECKED — 10-28-09	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 1 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	23
	TS-05	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

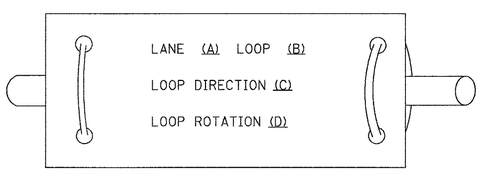
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

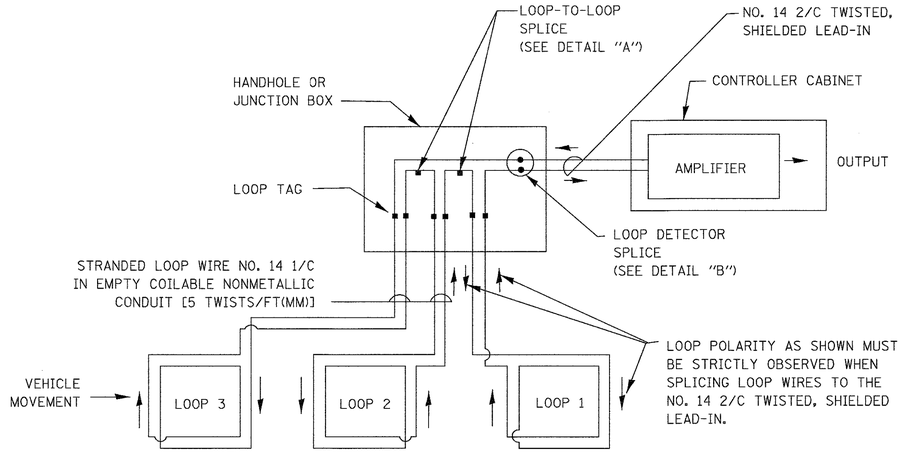


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

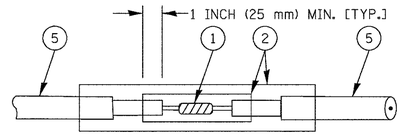
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

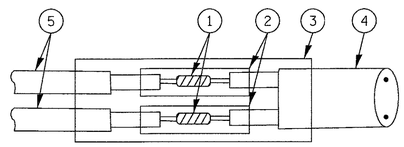


DETECTOR LOOP WIRING SCHEMATIC

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

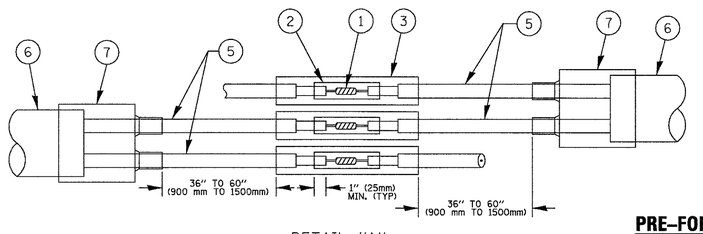


DETAIL "A"
LOOP-TO-LOOP SPLICE



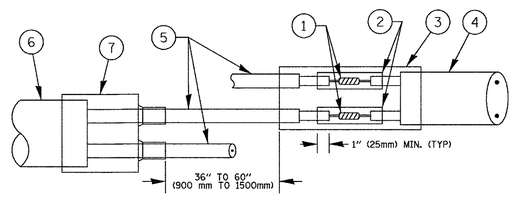
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

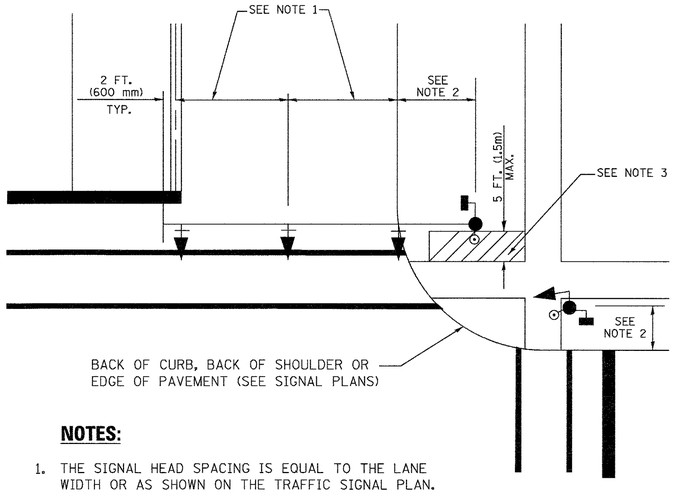
(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = 10405_02-SGNL_DTLS-01 - P02	USER NAME = footemj	DESIGNED — DAD	REVISED — DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — BCK	REVISED —					840	09-00041-00-TL	WILL	57	24
	PLOT SCALE = 50.0000 '/ in.	DRAWN — DAD	REVISED —						TS-05	CONTRACT NO. 61C81		
	PLOT DATE = 1/13/2014	CHECKED — 10-28-09	REVISED —		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

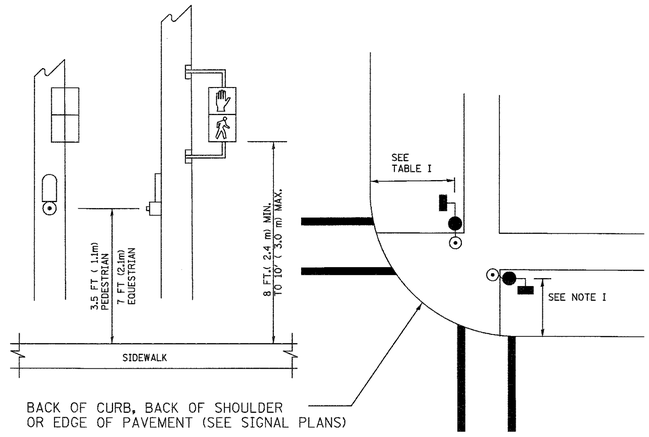
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

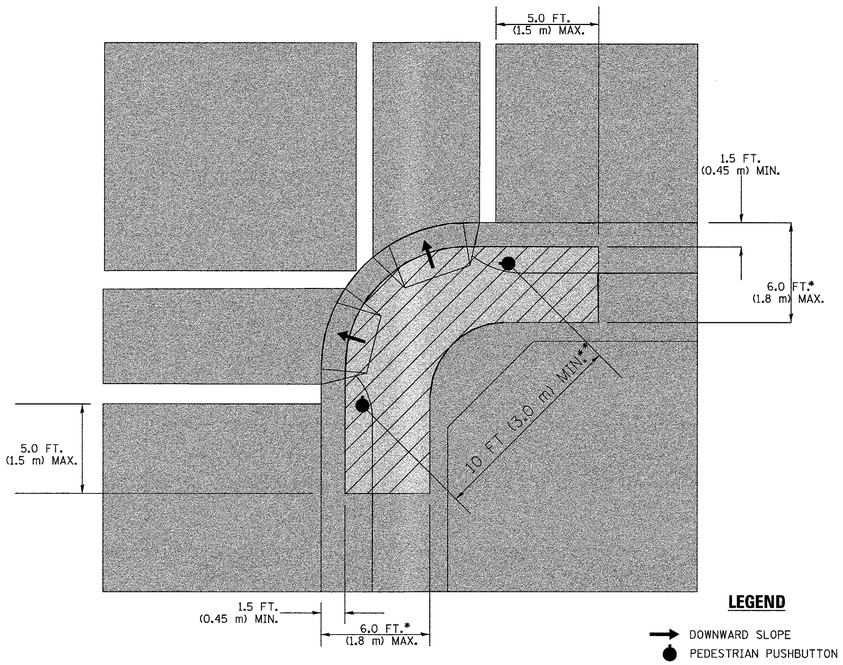
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

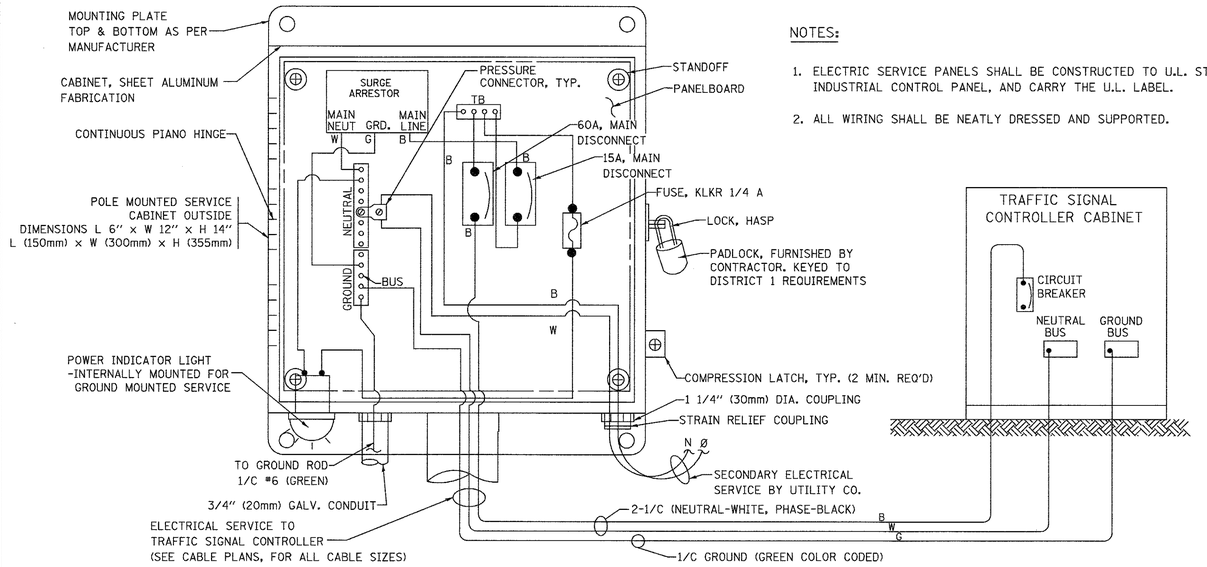
FILE NAME = 10405_02-SGNL_DTLS-01 - P03	USER NAME = footemj	DESIGNED — DAD	REVISED — DAG 1-1-14
		CHECKED — BCK	REVISED —
	PLOT SCALE = 50.0000 ' / in.	DRAWN — DAD	REVISED —
	PLOT DATE = 1/13/2014	CHECKED — 10-28-09	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	25
	TS-05	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

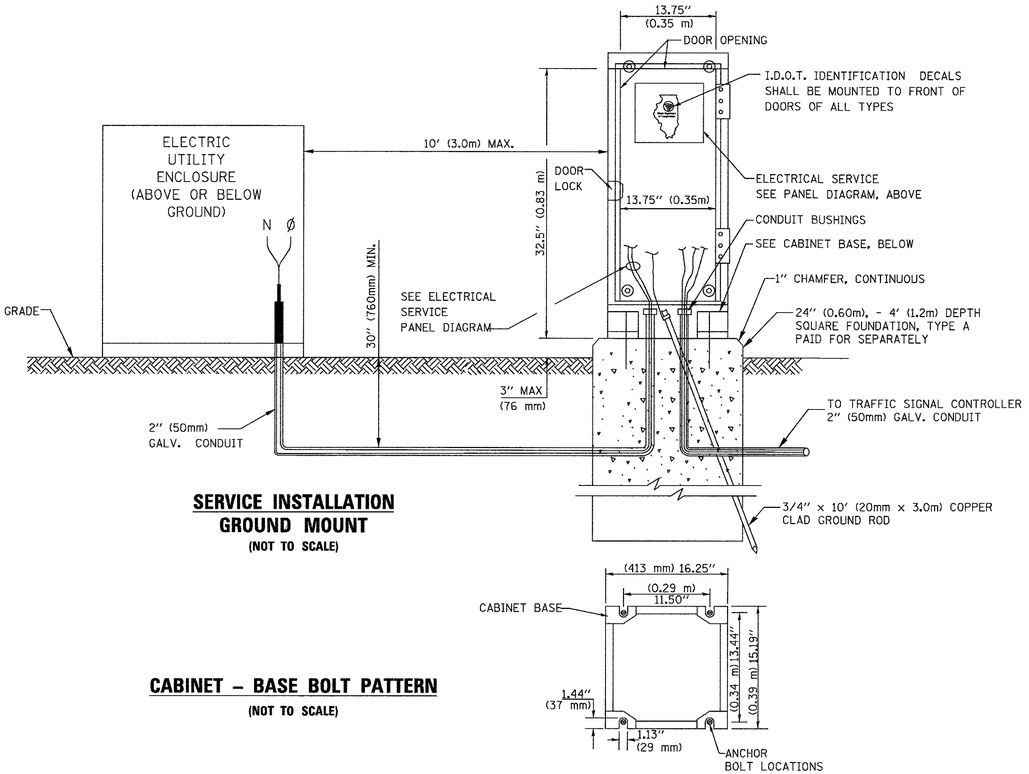


NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

(NOT TO SCALE)

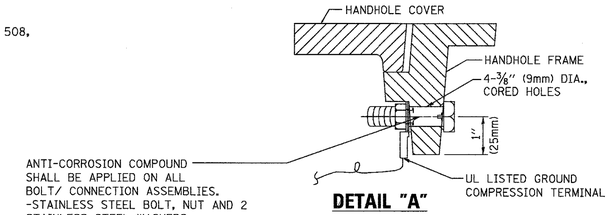


SERVICE INSTALLATION GROUND MOUNT

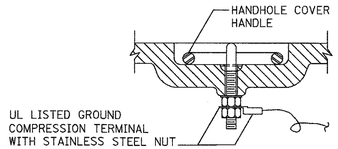
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

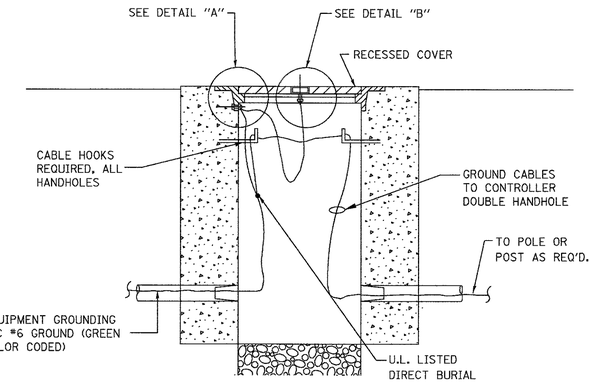
(NOT TO SCALE)



DETAIL "A"

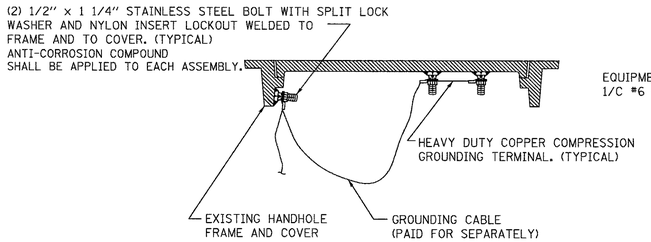


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

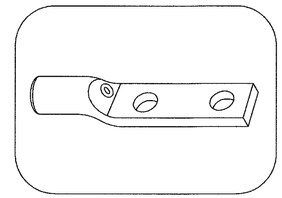


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

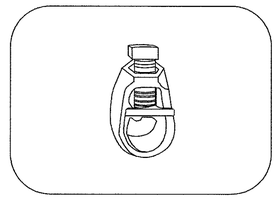
(NOT TO SCALE)

NOTES: GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



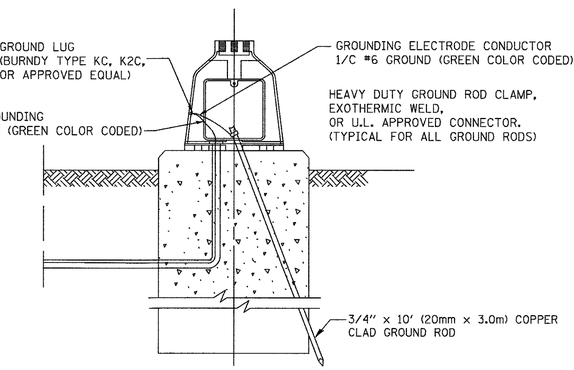
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

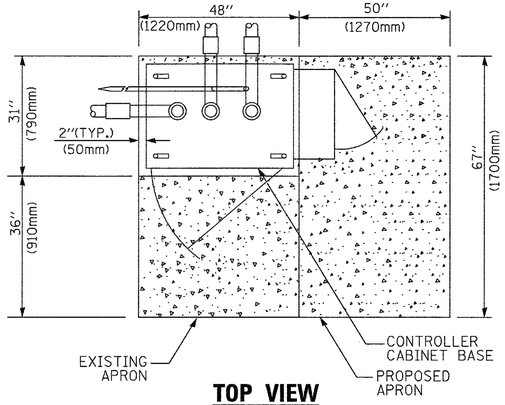
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



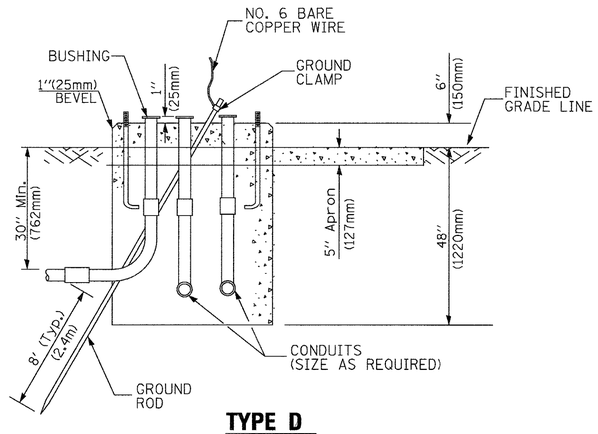
MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

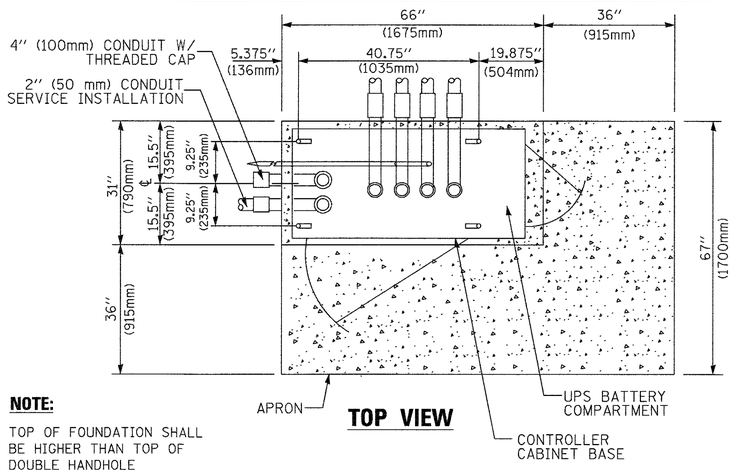
FILE NAME = 10405_02-SGNL_DTLS-01 - P04	USER NAME = footemj	DESIGNED — DAD	REVISED — DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — BCK	REVISED —			840	09-00041-00-TL	WILL	57	26
	PLOT SCALE = 50.0000 ' / in.	DRAWN — DAD	REVISED —				TS-05	CONTRACT NO. 61C81		
	PLOT DATE = 1/13/2014	CHECKED — 10-28-09	REVISED —		SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



TOP VIEW



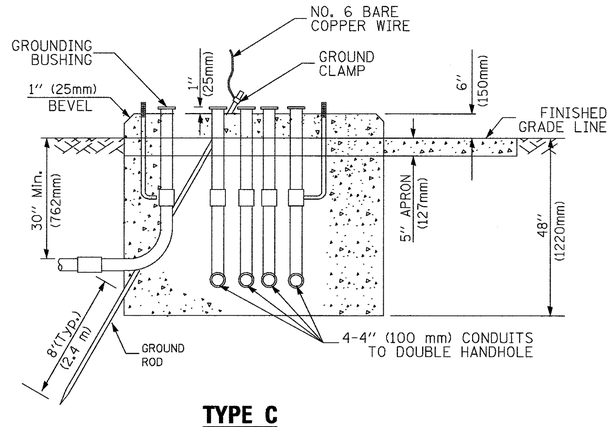
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



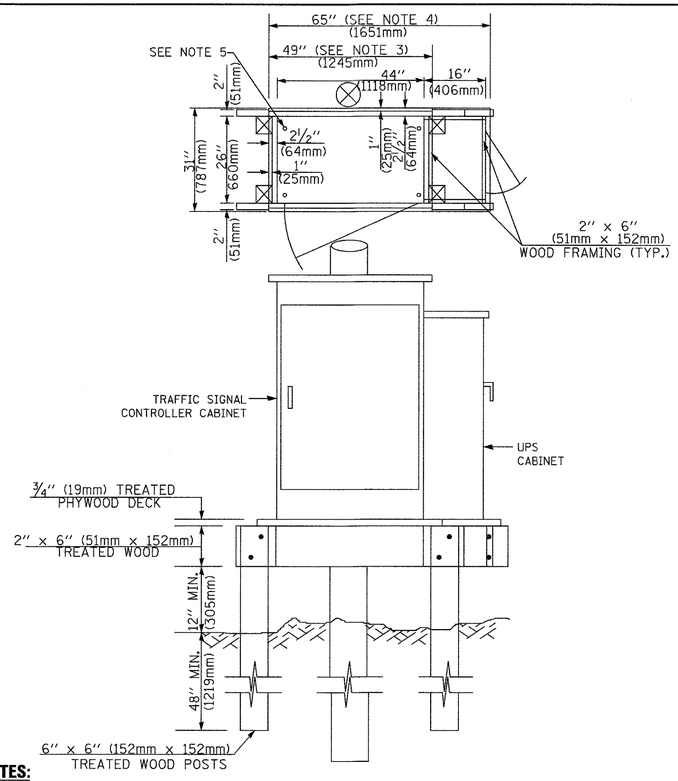
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

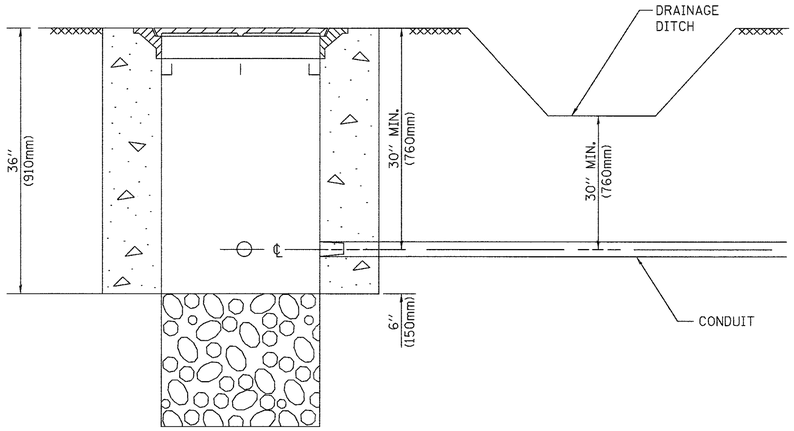
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME = 10405_02-SGNL_DTLS-01 - P05	USER NAME = footemj	DESIGNED — DAG	REVISED — DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — BCK	REVISED —			840	09-00041-00-TL	WILL	57	27
	PLOT SCALE = 50.0000 ' / in.	DRAWN — DAD	REVISED —				TS-05	CONTRACT NO. 61C81		
	PLOT DATE = 1/13/2014	CHECKED — 10-28-09	REVISED —		SCALE: NONE SHEET NO. 5 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

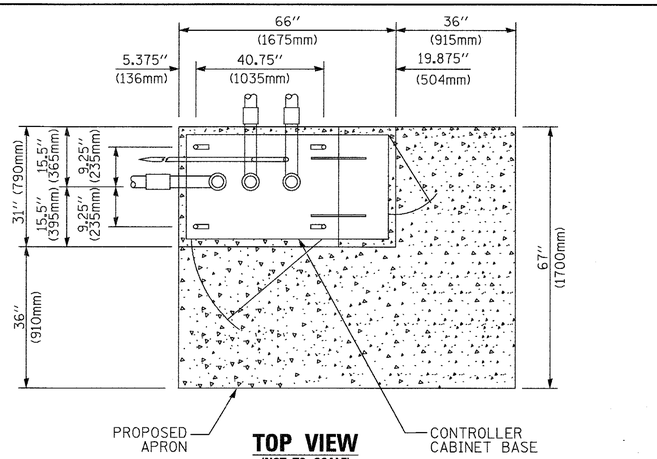


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

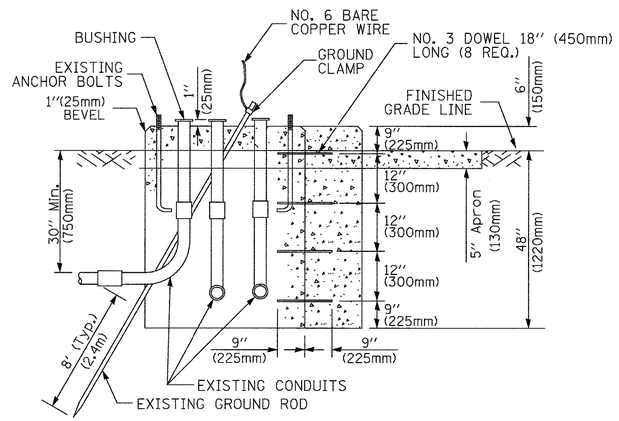
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



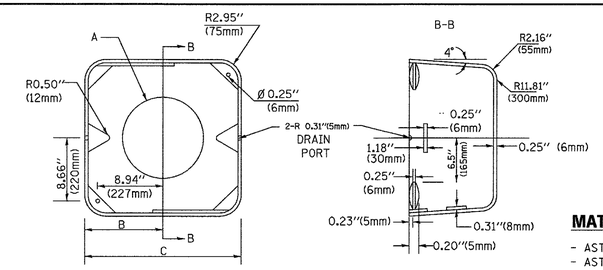
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

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

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

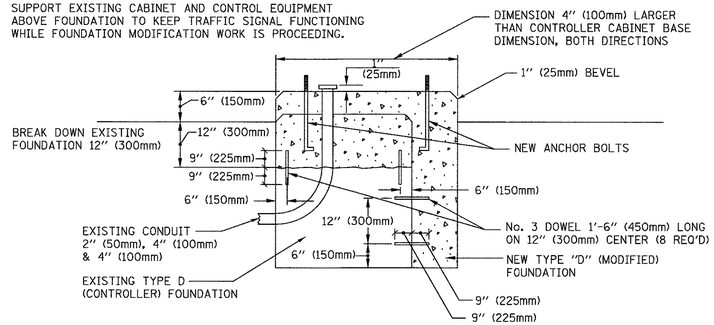
SHROUD

NOTES:

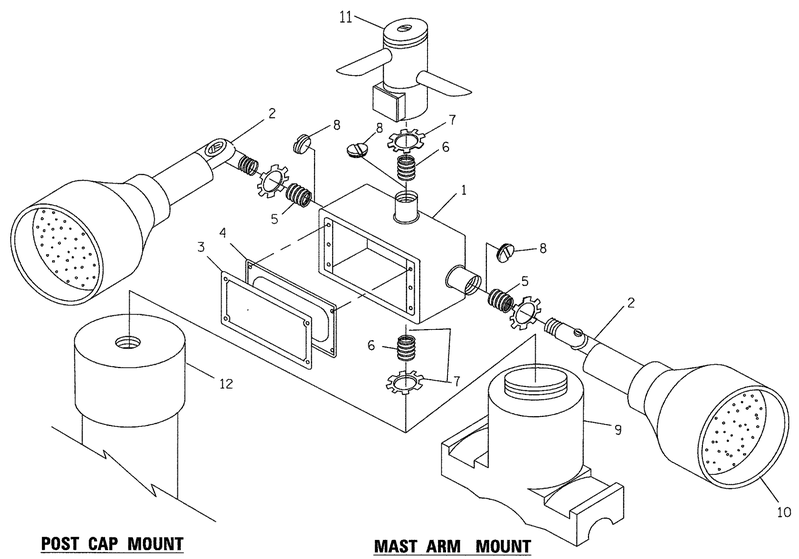
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



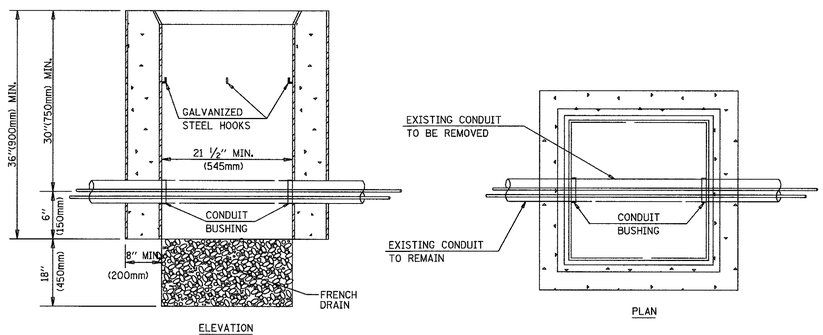
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

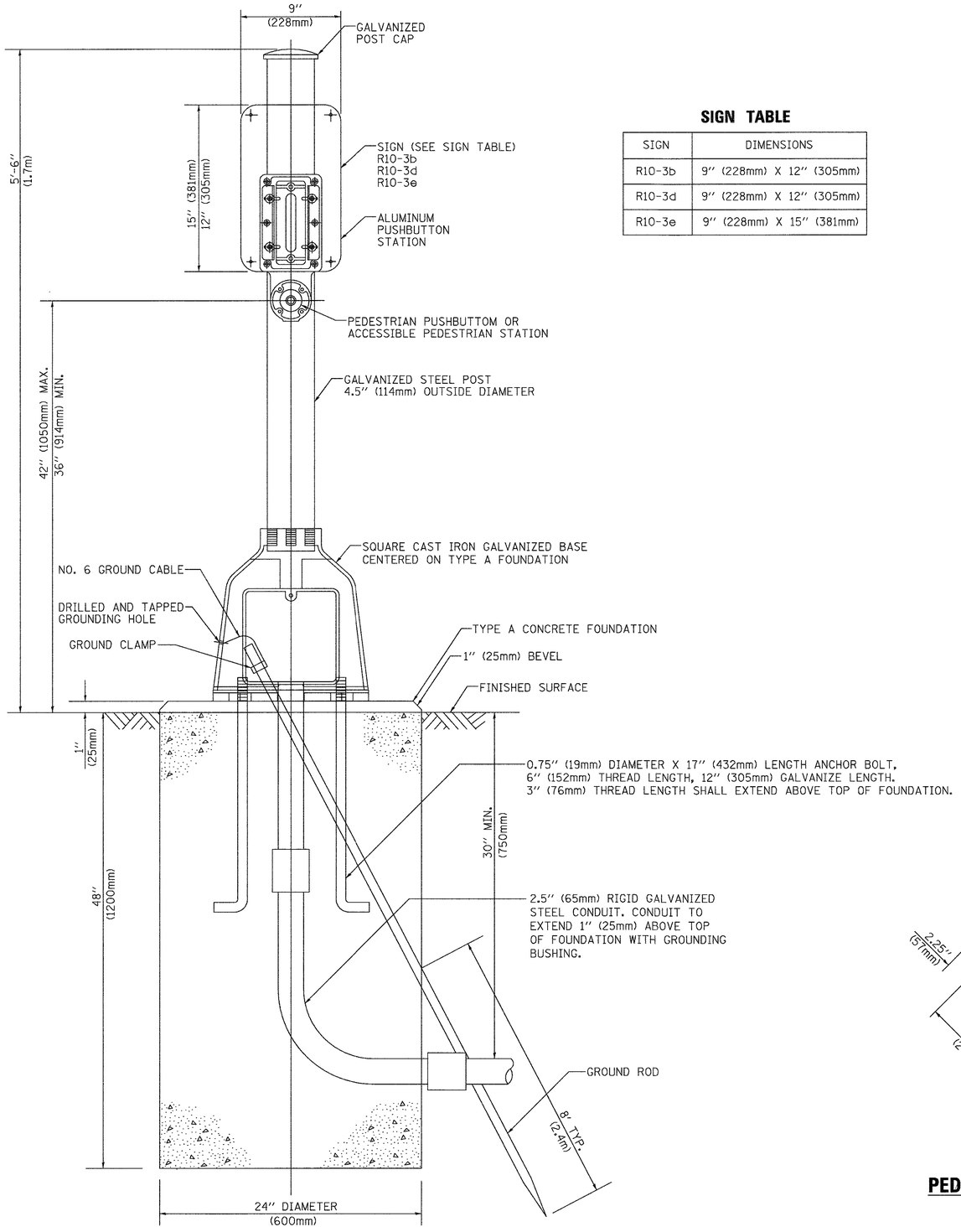
FILE NAME = 10405_02-SGNL_DTLS-01 - P06	USER NAME = footemj	DESIGNED — DAD	REVISED — DAG 1-1-14
		CHECKED — BCK	REVISED —
	PLOT SCALE = 50.0000 ' / in.	DRAWN — DAD	REVISED —
	PLOT DATE = 1/13/2014	CHECKED — 10-28-09	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

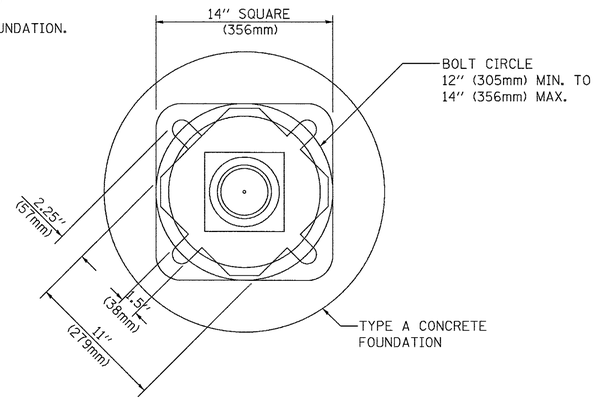
SCALE: NONE | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	28
	TS-05	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)

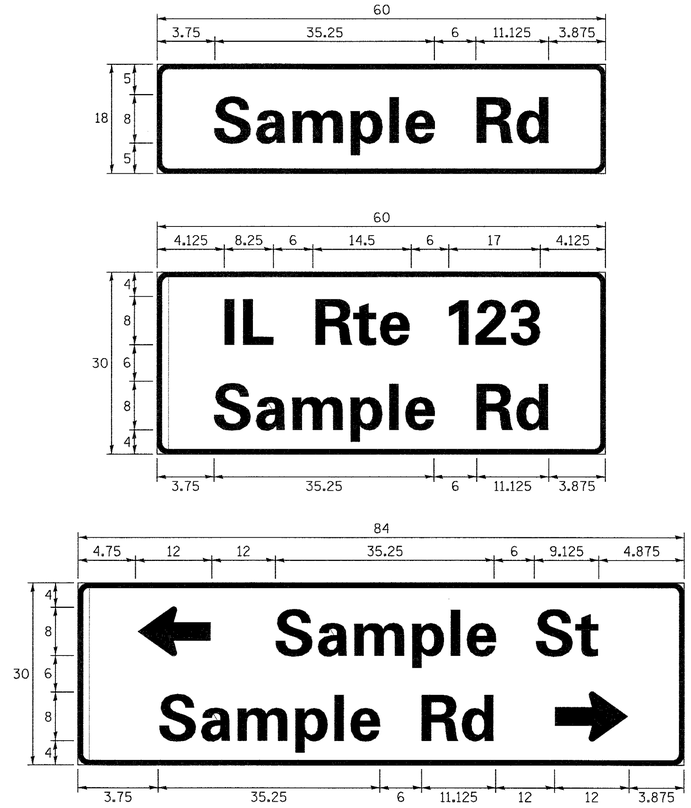


BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME = 10405_02-SGNL_DTLS-01 - P07	USER NAME = footemj	DESIGNED — DAG	REVISED —- DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — GND	REVISED —					840	09-00041-00-TL	WILL	57	29
	PLOT SCALE = 50.0000 ' / in.	DRAWN — DAD	REVISED —						TS-05	CONTRACT NO. 61C81		
	PLOT DATE = 1/13/2014	CHECKED — 10/1/2012	REVISED —		SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

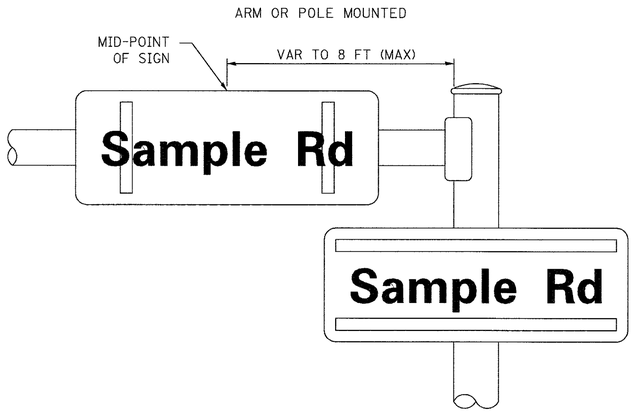
GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUX OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

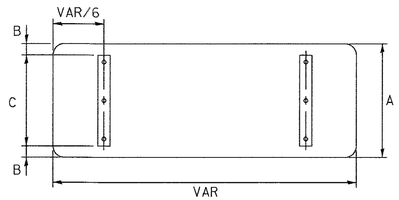
LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
	SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

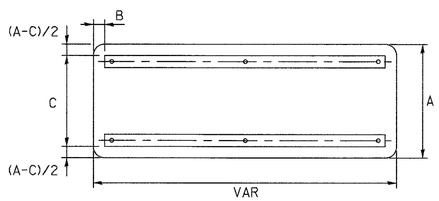
MOUNTING LOCATION



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

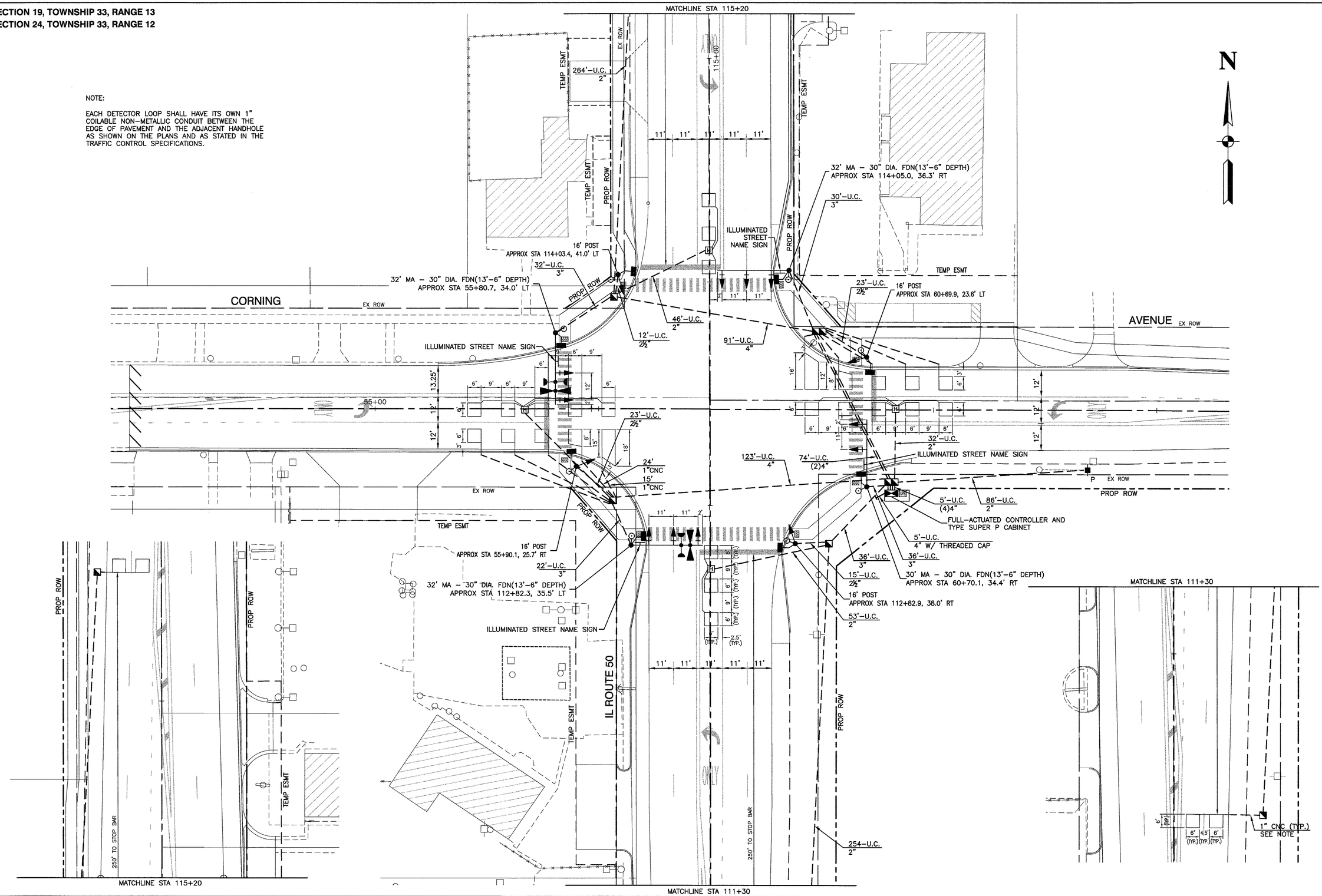
(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

SECTION 19, TOWNSHIP 33, RANGE 13
SECTION 24, TOWNSHIP 33, RANGE 12

NOTE:

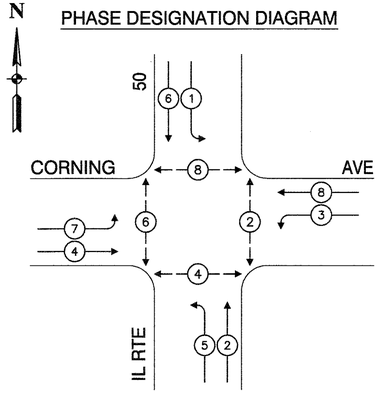
EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC CONTROL SPECIFICATIONS.



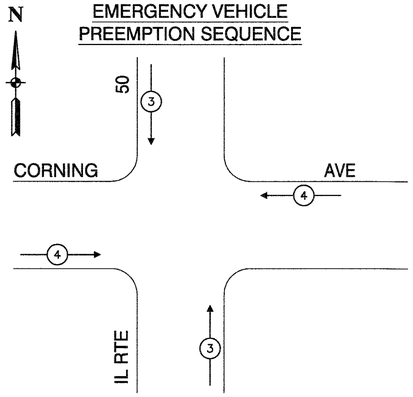
TS 7375

FILE NAME = 10405_02-SGNL-01 - IDOT P01	USER NAME =		DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS TRAFFIC SIGNAL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			CHECKED — PKB	REVISED —					840	09-00041-00-TL	WILL	57	31
	PLOT SCALE =		DRAWN — KWM	REVISED —							CONTRACT NO. 61C81		
	PLOT DATE =	03-14-16	CHECKED — APG	REVISED —		SCALE:	SHEET NO. 31 OF 57 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

PHASE DESIGNATION DIAGRAM

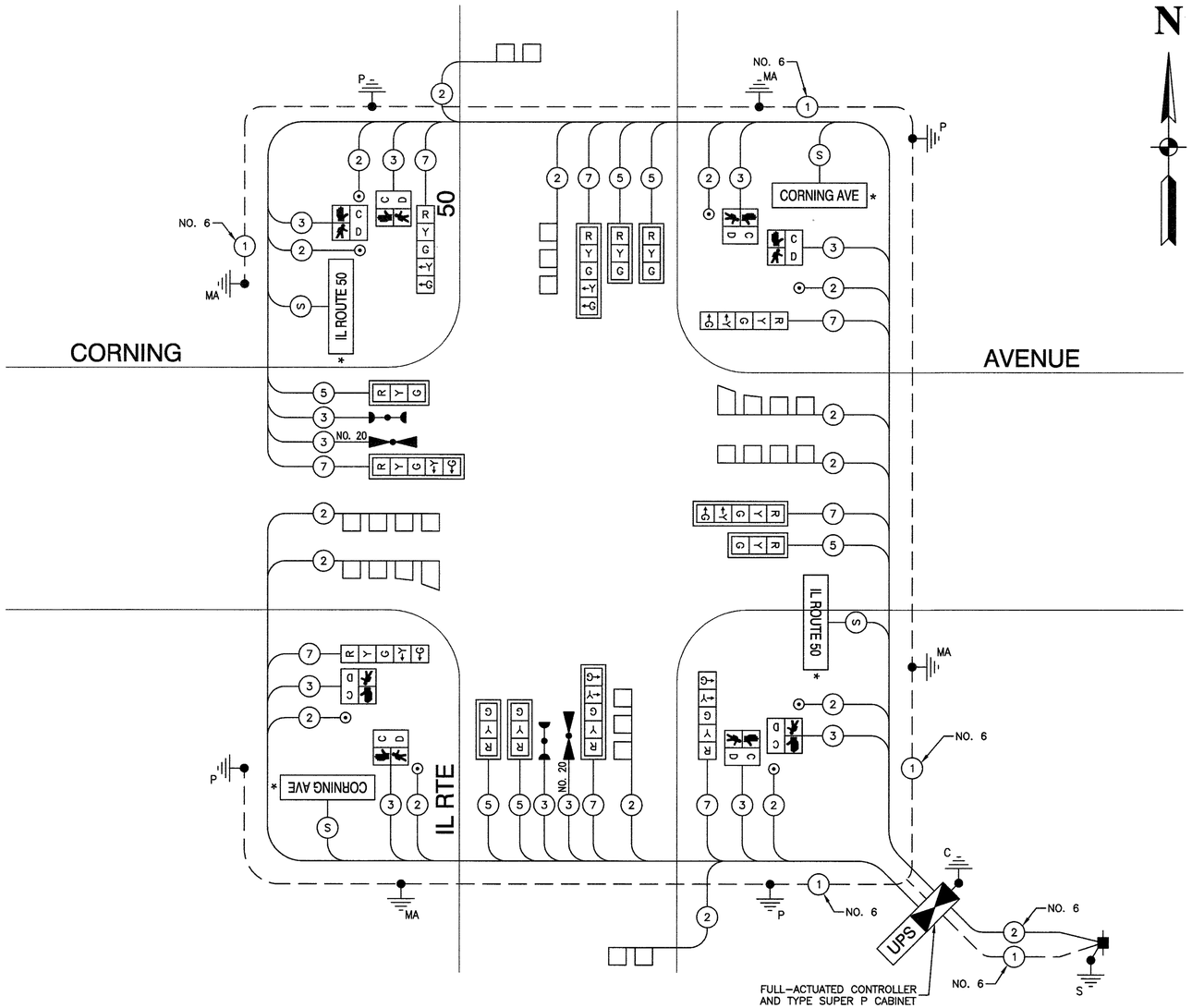


EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	x %OPERATION	
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW	16		12	0.10	19.2
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN	4		25	0.50	50
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	628.20

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER CT. SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: BRAD SHINABARGAR
PHONE: (708)235-2692
COMPANY: COMMONWEALTH EDISON

NOTE:

1. AN ASTERISK INDICATES ILLUMINATED STREET NAME SIGN.

TS 7375

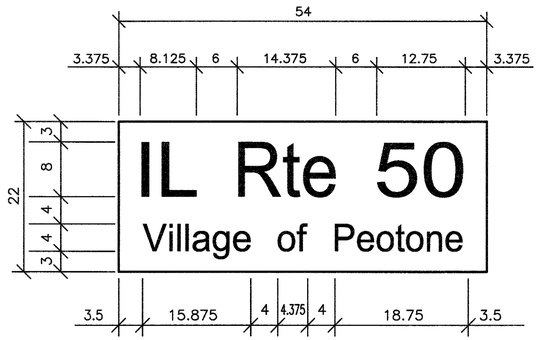
FILE NAME = 10405_02-SGNL_CBLE-01 - IDOT P01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — KWM	REVISED —
	PLOT DATE = 03-14-16	CHECKED — APG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

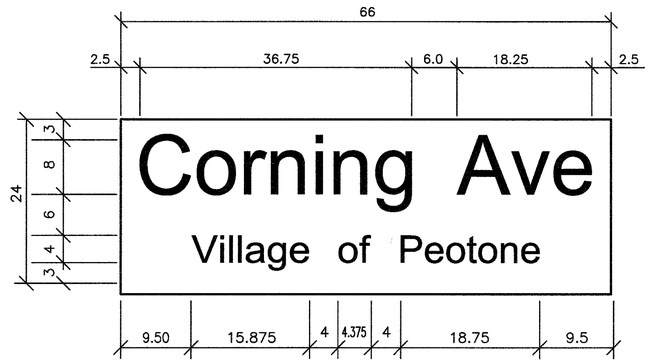
INTERSECTION IMPROVEMENTS IL ROUTE 50 AT CORNING AVENUE
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE

SCALE: | SHEET NO. 32 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	32
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	6.75	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	8.25	ZZ	2

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT 1 MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SERVICE INSTALLATION – POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	790
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2–1/2" DIA.	FOOT	76
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	156
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	382
HANDHOLE	EACH	5
HEAVY–DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 2C	FOOT	1251
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 3C	FOOT	1315
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 5C	FOOT	1205
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 7C	FOOT	1469
ELECTRIC CABLE IN CONDUIT, LEAD–IN, NO. 14 1 PAIR	FOOT	2445
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	101
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	619
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	3
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 30–INCH DIAMETER	FOOT	54
SIGNAL HEAD, LED, 1–FACE, 3–SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1–FACE, 5–SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1–FACE, 5–SECTION, MAST–ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1–FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	1175
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH–BUTTON	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	503
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
FULL–ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

TS 7375

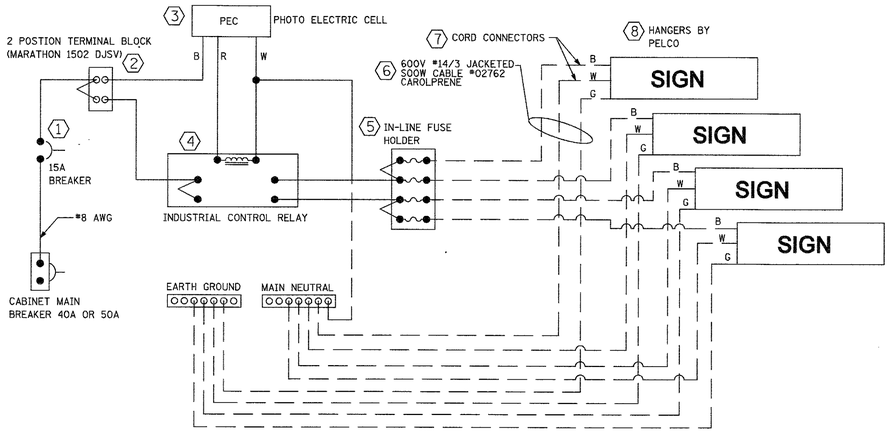
FILE NAME = 10405_02-SGNL_DTLS-03 - IDOT P01	USER NAME =	DESIGNED – TAG	REVISED –
		CHECKED – PKB	REVISED –
	PLOT SCALE =	DRAWN – JJB	REVISED –
	PLOT DATE = 03-14-16	CHECKED – APG	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS
TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE

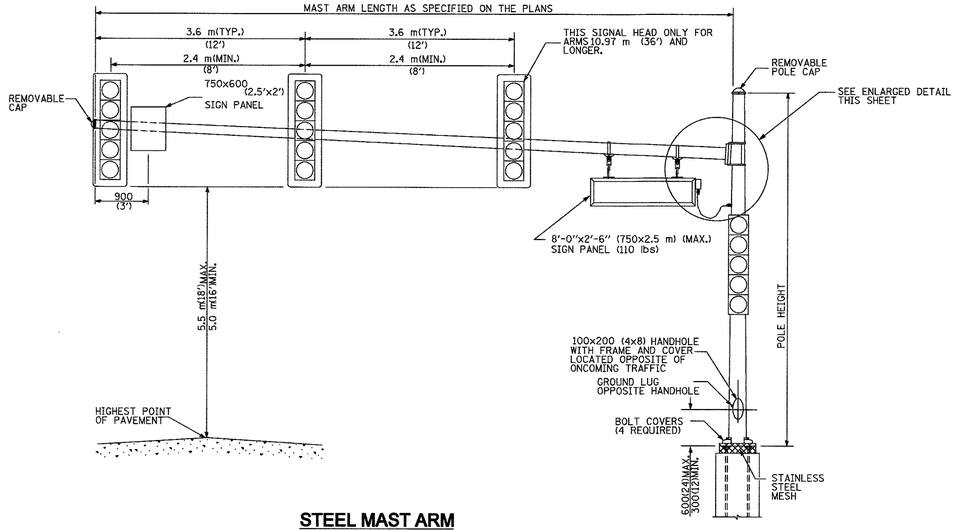
SCALE: | SHEET NO. 33 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	33
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

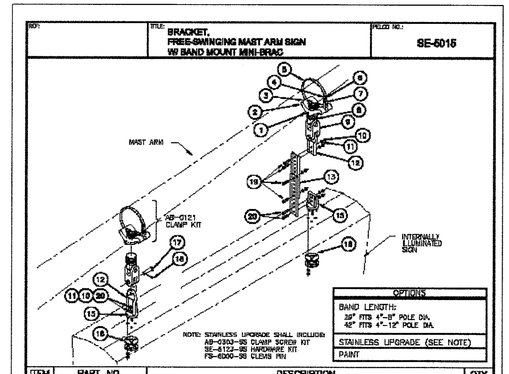


LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
1. CIRCUIT BREAKER		15 AMPERE	
2. TERMINAL BLOCK	MARATHON	1502 DJSV	
3. PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
4. CONTRACTOR (INDUSTRIAL CONTROL RELAY)	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
5. INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMANN	S-8000 BK/S-8-3-4-R	
6. ELECTRIC CABLE, No. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE /SOOW	02762	
7. CORD/CABLE CONNECTOR	APPLETON	CG5050S (STEEL)	
8. SIGN MOUNTING HARDWARE	PELCO	SE-5015	

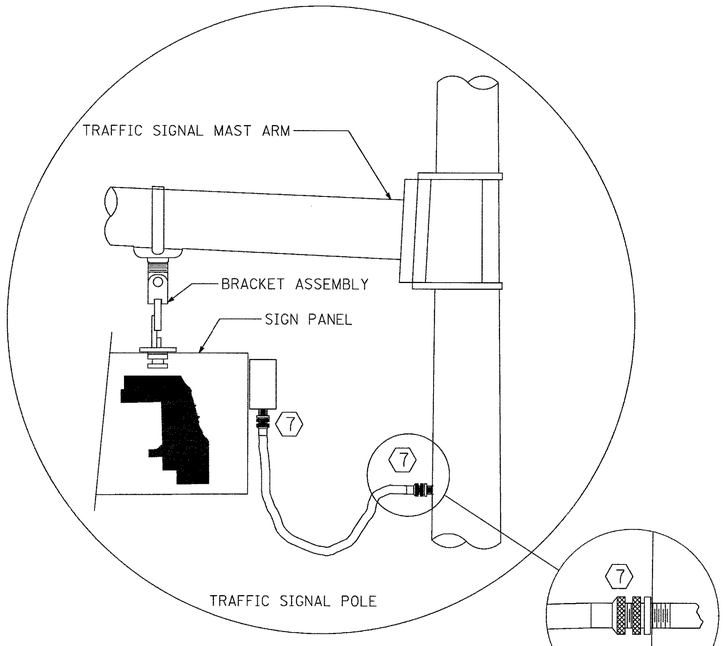


STEEL MAST ARM ASSEMBLY AND POLE



ITEM	PART NO.	DESCRIPTION	QTY
1	FS-3205-SS	SCREW, SET SQ HD ¼"-20 x 5/8", STAINLESS	2
2	AB-0266-M1	CLAMP, MINI-BRAC BAND MOUNT, 1½" NPS, ALUM	2
3	FS-6201-ZN1	PIN, GROOVE 3/16" x 1¼", ZINC1	2
4	AB-0244-SS	CLAMP, BAND 5/8", STAINLESS	2
5	AB-0243-L	BAND, 5/8", STAINLESS	2
6	FS-3202-SS	SCREW, SET SOC HD 5/16"-18, STAINLESS	2
7	AB-0303-GLV	KIT, CLAMP SCREW FOR MINI-BRAC, GALV	2
8	SE-0371-M1	ADAPTER, SPAN WIRE, DIE CAST ALUM W/ SS INSERT	2
9	SE-0464-M2	CLEVIS-CLEVIS, ½" x ½", ALUM W/ STAINLESS BUSHINGS	2
10	FS-1001-SS	NUT, HEX HD 5/16", STAINLESS	8
11	FS-4201-SS	WASHER, SPLIT LOCK, 5/16", STAINLESS	8
12	SE-0508-M2	EXTENDER CONNECTOR HANGER, ALUM W/ STAINLESS BUSHING	2
13	SE-0507-11	EXTENDER, 11"	2
15	SE-0512-M1	HANGER, TRI-STUD, ALUM	2
16	SE-5048-SS	HARDWARE KIT W/ GASKET, 5/16"-18, STAINLESS	2
17	FS-6000-GLV	PIN, CLEVIS, 5/8" x 2¼" EL, GALV	4
18	FS-6100-SS	PIN, COTTER HUMPED, 5/32" X 1.775" 304 STAINLESS	4
19	FS-2006-SS	BOLT, HEX HD, 5/16"-18 x 1", STAINLESS	4
20	FS-2019-SS	BOLT, HEX HD, 5/16"-18 x 1¼", STAINLESS	4

LED SIGN BRACKET DETAIL



LED SIGN ENLARGED CABLE CONNECTOR DETAIL

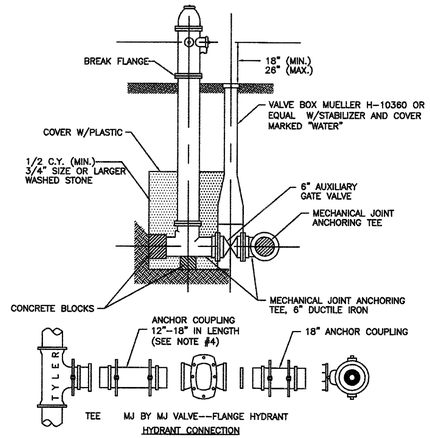
LED SIGN ENLARGED CABLE CONNECTOR DETAIL

GENERAL NOTE:

1. SIGNAL HEADS, SIGN PANELS, AND OTHER ATTACHMENT ARE SHOWN FOR MINIMUM DESIGN LOADING PURPOSES ONLY. EACH SIGNAL HEAD SHALL WEIGH 36 Kg (80 lb) AND HAVE A PROJECTED AREA OF 1.37 sq. m (14.7 sq ft.).
2. PHOTO ELECTRIC CELL IS TO BE MOUNTED ABOVE CABINET DOOR.
3. THE SIGN SHALL BE LOCATED AT A MAXIMUM OF 8' FROM CENTER OF SIGN TO POLE.
4. SIGN IS TO BE MOUNTED A MINIMUM OF 16' ABOVE PAVEMENT.

TS 7375

FILE NAME = 10405_02-SGNL_DTLS-03 - IDOT P02	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS ILLUMINATED STREET NAME SIGN MOUNTING DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — PKB	REVISED —			840	09-00041-00-TL	WILL	57	34
	PLOT SCALE =	DRAWN — K.W.M.	REVISED —					CONTRACT NO. 61C81		
	PLOT DATE = 03-14-16	CHECKED — APG	REVISED —		SCALE: SHEET NO. 34 OF 57 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

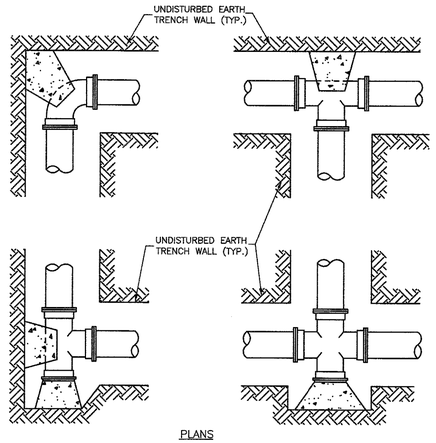


HYDRANT CONNECTION

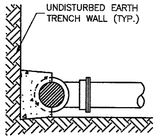
NOTES:

1. ALL CASTINGS SHALL BE MADE IN THE U.S.A. WITH U.S.A. MATERIALS. FIRE HYDRANTS SHALL MEET AWWA C-502 AND SHALL BE MUELLER "CENTURION" A-423, WITH AN OIL- ENCASED BONNET, STAINLESS STEEL BOLTS, 5-1/4" VALVE OPENING, TWO 2-1/2" HOSE NOZZLES AND ONE 4" "STORZ" CONNECTION. THREADS SHALL CONFORM TO NATIONAL STANDARD SPECIFICATIONS.
2. HYDRANTS SHALL BE INSTALLED NO CLOSER THAN THREE FEET NOR FARTHER THAN 8 FEET FROM THE BACK OF CURB. NO HYDRANT SHALL BE INSTALLED WITHIN 48" OF ANY OBSTRUCTION NOR SHALL ANY OBSTRUCTION BE PLACED WITHIN 48" OF A HYDRANT.
3. THE HYDRANTS SHALL BE PAINTED RED BY THE MANUFACTURER.
4. ANCHOR COUPLING TO BE INSTALLED AT A LENGTH TO PROVIDE A MINIMUM 1' BETWEEN BACK OF CURB/EDGE OF PAVEMENT AND AUXILLARY VALVE.
5. AUXILLARY VALVES SHALL ALWAYS BE INSTALLED IN THE PARKWAY. INSTALLATION IN PAVED SURFACE IS PROHIBITED.
6. HYDRANTS SHALL BE EQUIPED WITH A INTEGRAL 4" "STORZ" QUICK DISCONNECT NOZZLE.

FIRE HYDRANT INSTALLATION



PLANS

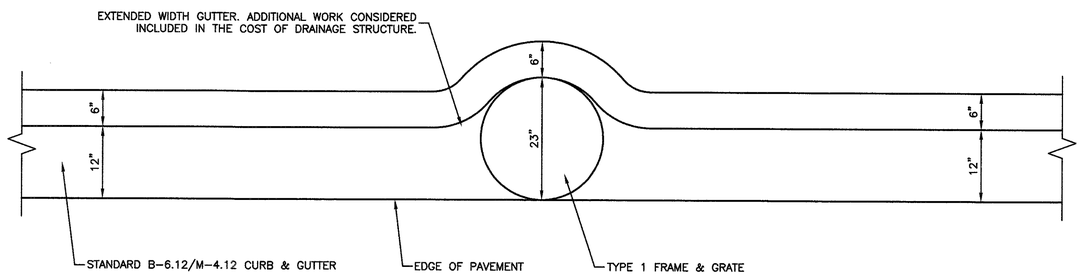


SECTION

NOTES:

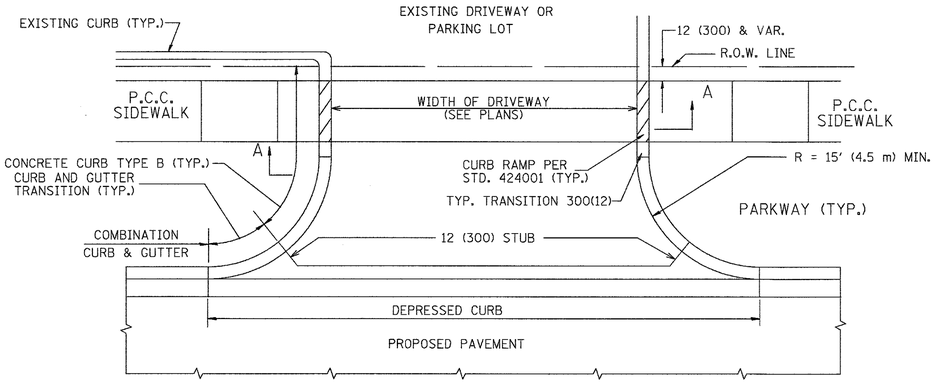
1. PROVIDE PRECAST OR CAST-IN-PLACE CONCRETE THRUST BLOCKS OF ADEQUATE SIZE (12" MINIMUM) AND THRUST BEARING SURFACE TO PREVENT MOVEMENT OF PIPELINE UNDER PRESSURE.
2. PLACE THE BASE AND THE THRUST BEARING SIDES OF THRUST BLOCK DIRECTLY AGAINST UNDISTURBED EARTH.
3. PLACE THRUST BLOCKING SO THE FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR.

TYPICAL THRUST BLOCK INSTALLATIONS

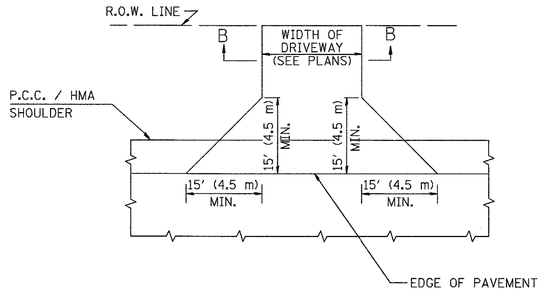


EXTENDED GUTTER DETAIL
N.T.S.

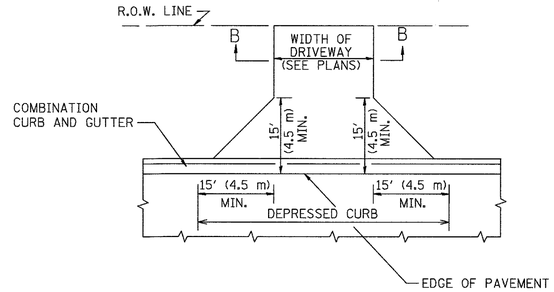
FILE NAME = 10405_02-DTLS-01 - IDOT P01	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS CONSTRUCTION DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LAST SAVED BY: KKUHR ON 1/14/16		CHECKED — PKB	REVISED —			840	09-00041-00-TL	WILL	57	35
PLOTTED BY: KKUHR MMR On 1/14/16	PLOT SCALE =	DRAWN — RG	REVISED —					CONTRACT NO. 61C81		
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —		SCALE: NA SHEET NO. 35 OF 57 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



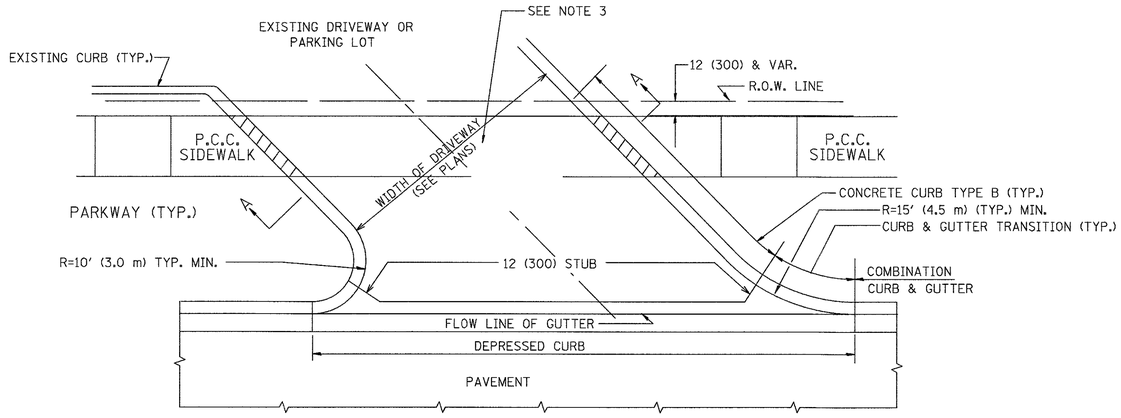
WITH CONCRETE CURB, TYPE B



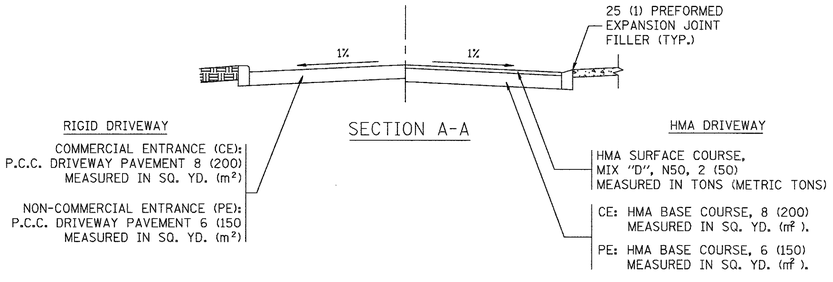
ADJACENT TO P.C.C. / HMA SHOULDER

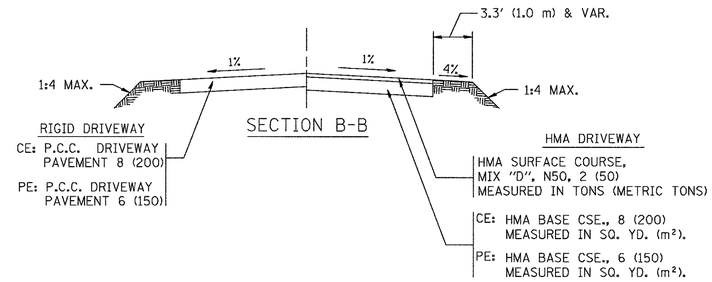


ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B





RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

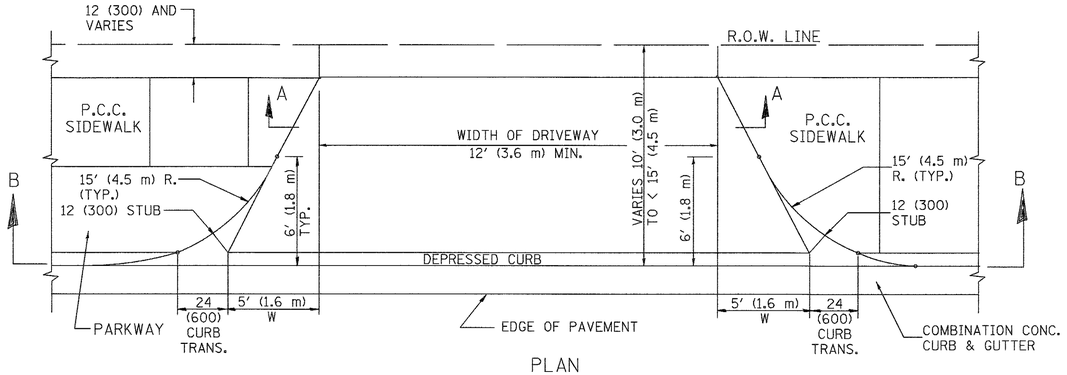
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

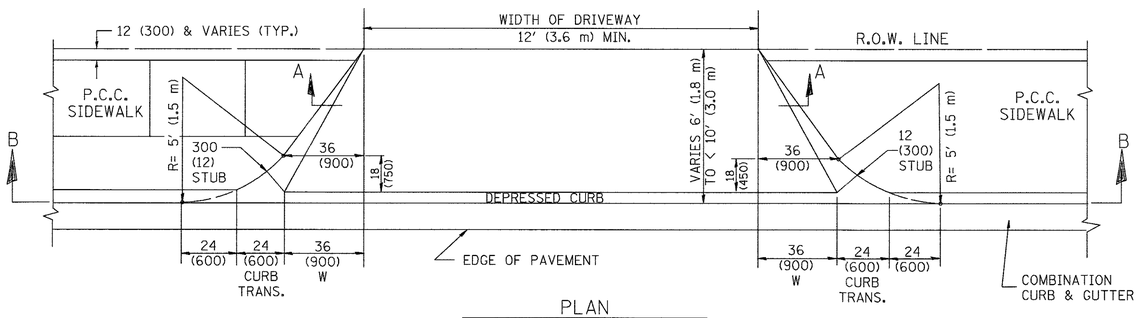
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME = 10405_02-DTLS-02 - BD01	USER NAME = leysa	DESIGNED — R. SHAH	REVISED — P. LaFLUER 04-15-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED — R. BORO 01-01-07					840	09-00041-00-TL	WILL	57	36
	PLOT SCALE = 50.0000 ' / in.	DRAWN —	REVISED — R. BORO 06-11-08						BD0156-07 (BD-01)		CONTRACT NO. 61C81	
	PLOT DATE = 9/6/2011	CHECKED — 11-04-95	REVISED — R. BORO 09-06-11		SCALE: NONE	SHEET NO. 36 OF 57 SHEETS	STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)	



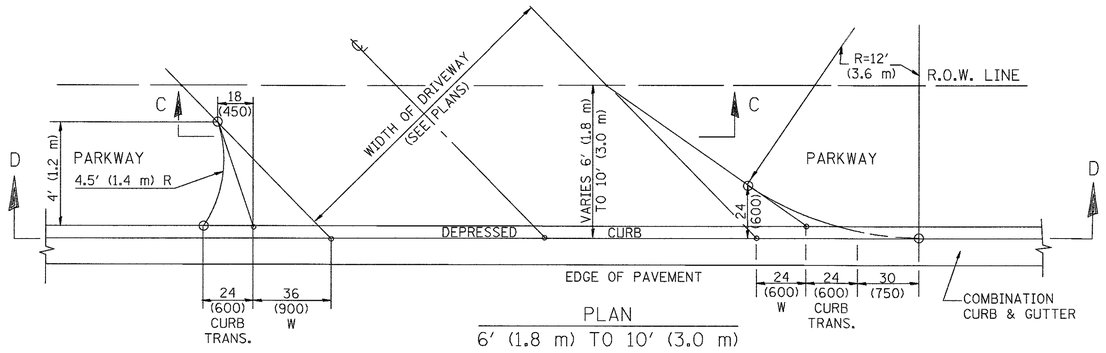
PLAN

10' (3.0 m) TO < 15' (4.5 m)



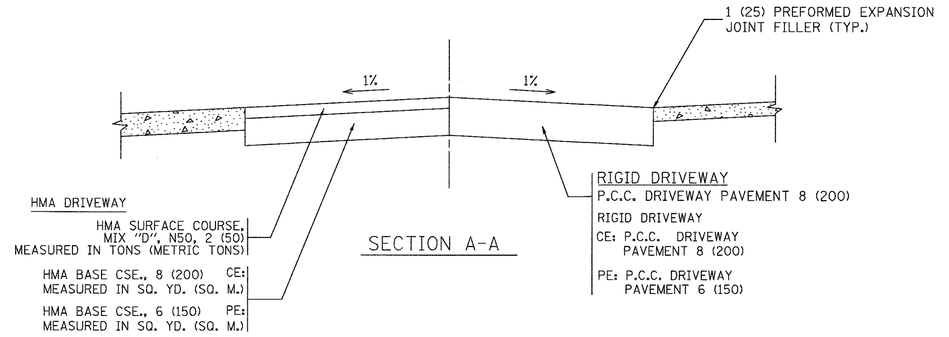
PLAN

6' (1.8 m) TO < 10' (3.0 m)

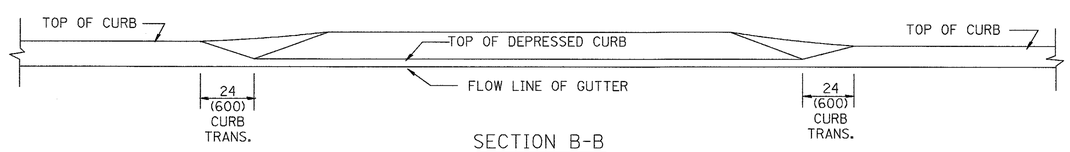


PLAN

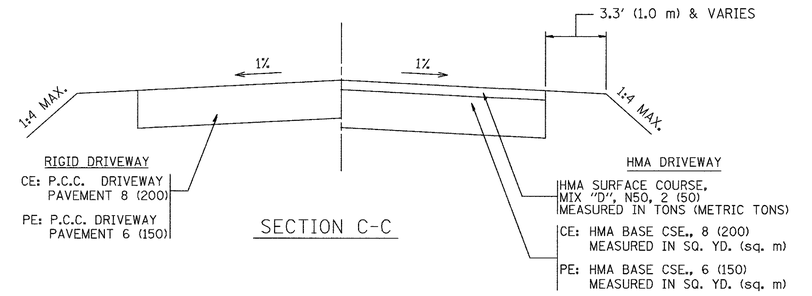
6' (1.8 m) TO 10' (3.0 m)



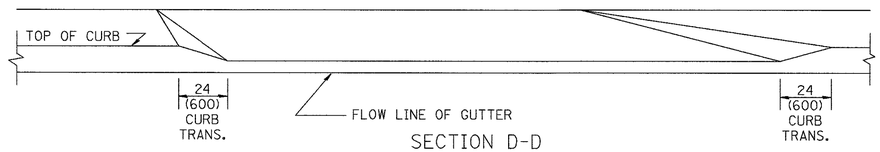
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

FILE NAME = 10405_02-DTLS-02 - BD02	USER NAME = leysa	DESIGNED — R. SHAH	REVISED — M. GOMEZ 04-06-01
		CHECKED —	REVISED — P. LaFLEUR 04-15-03
	PLOT SCALE = 50.0000 ' / in.	DRAWN —	REVISED — R. BORO 01-01-07
	PLOT DATE = 10/28/2011	CHECKED — 11-06-95	REVISED — R. BORO 09-06-11

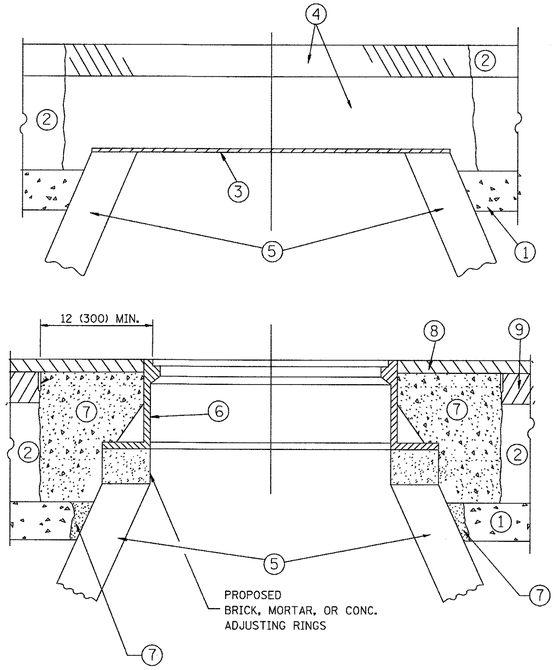
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS

DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

SCALE: NONE | SHEET NO. 37 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	37
	BD400-02 (BD-02)	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND A MINIMUM $1\frac{1}{2}$ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

(1) SUB-BASE GRANULAR MATERIAL
(2) EXISTING PAVEMENT
(3) 36 (900) DIAMETER METAL PLATE
(4) PROPOSED CRUSHED STONE AND HMA SURFACE MIX
(5) EXISTING STRUCTURE
(6) FRAME AND LID (SEE NOTES)
(7) CLASS PP-1* CONCRETE
(8) PROPOSED HMA SURFACE COURSE
(9) PROPOSED HMA BINDER COURSE

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

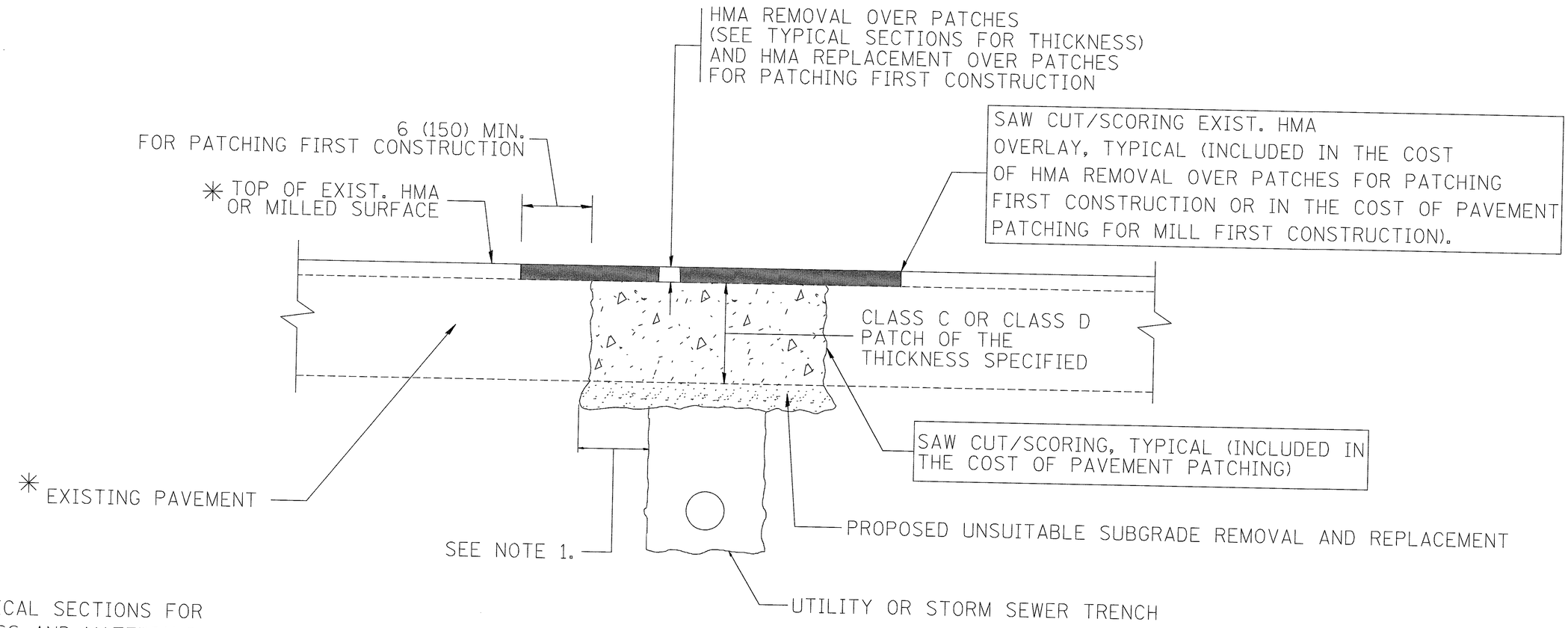
FILE NAME = 10405_02-DTLS-02 - BD08	USER NAME = bauerdl	DESIGNED — R. SHAH	REVISED — R. WIEDEMAN 05-14-04
		CHECKED —	REVISED — R. BORO 01-01-07
	PLOT SCALE = 1968.5000 ' / m	DRAWN —	REVISED — R. BORO 03-09-11
	PLOT DATE = 12/6/2011	CHECKED — 10-25-94	REVISED — R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE | SHEET NO. 38 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	38
	BD600-03 (BD-8)	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



✳ SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

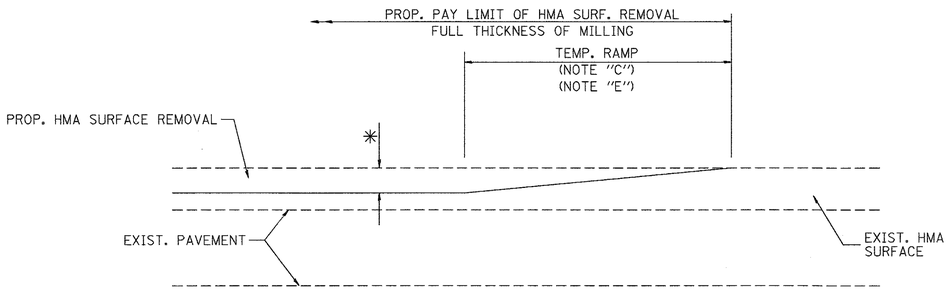
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

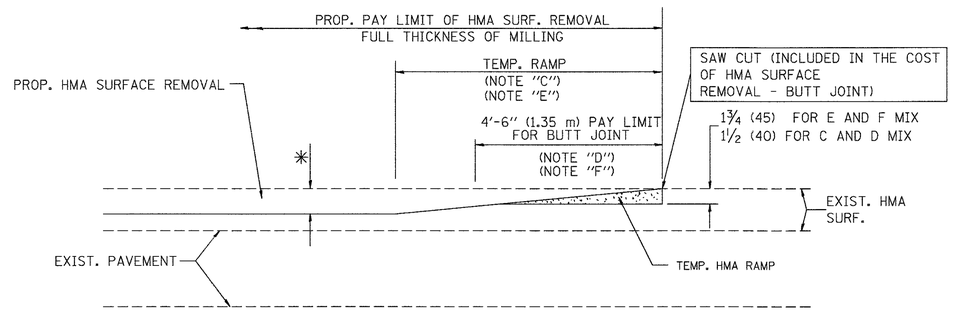
FILE NAME = 10405_02-DTLS-02 - BD22	USER NAME = bauerdl	DESIGNED — R. SHAH	REVISED — A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED — R. BORO 01-01-07			840	09-00041-00-TL	WILL	57	39
	PLOT SCALE = 50.000 '/ IN.	DRAWN —	REVISED — R. BORO 09-04-07				BD400-04 (BD-22)	CONTRACT NO. 61C81		
	PLOT DATE = 10/27/2008	CHECKED — 10-25-94	REVISED — K. ENG 10-27-08		SCALE: NONE SHEET NO. 39 OF 57 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

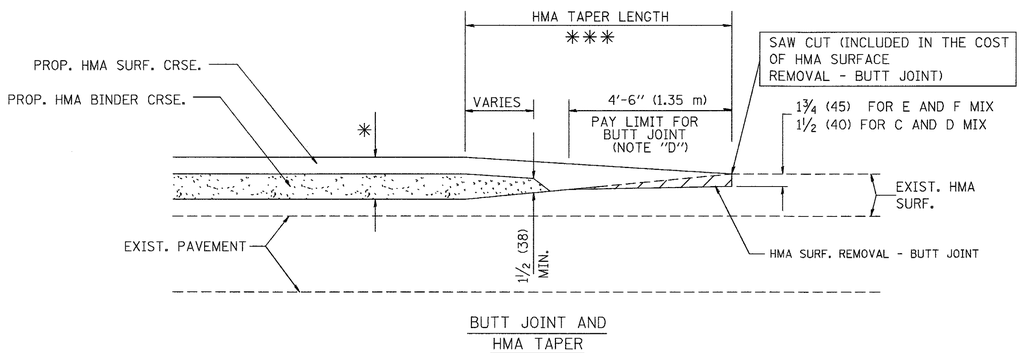


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

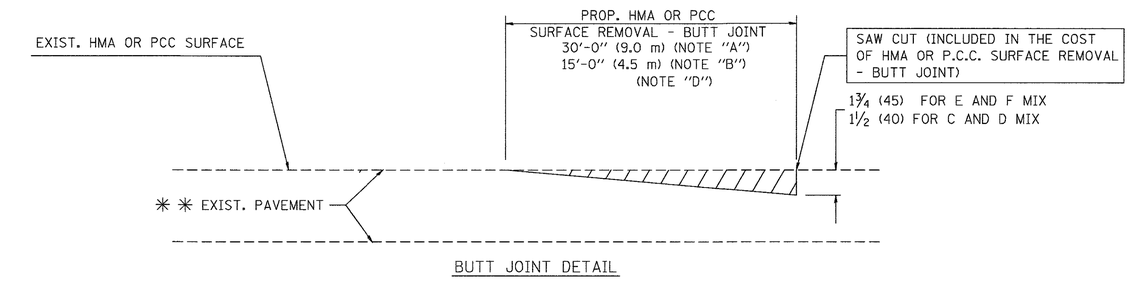
OPTION 2

TYPICAL TEMPORARY RAMP

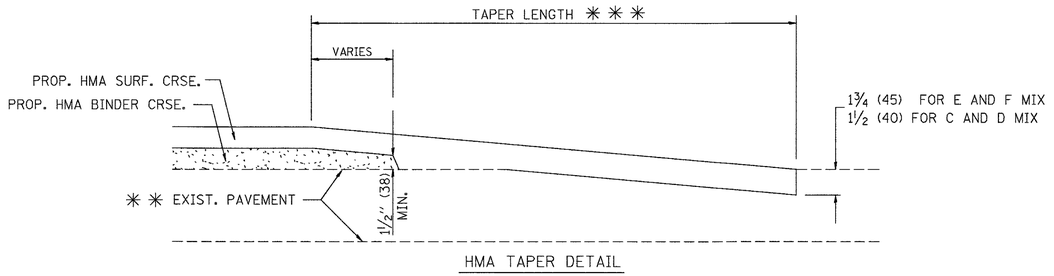


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

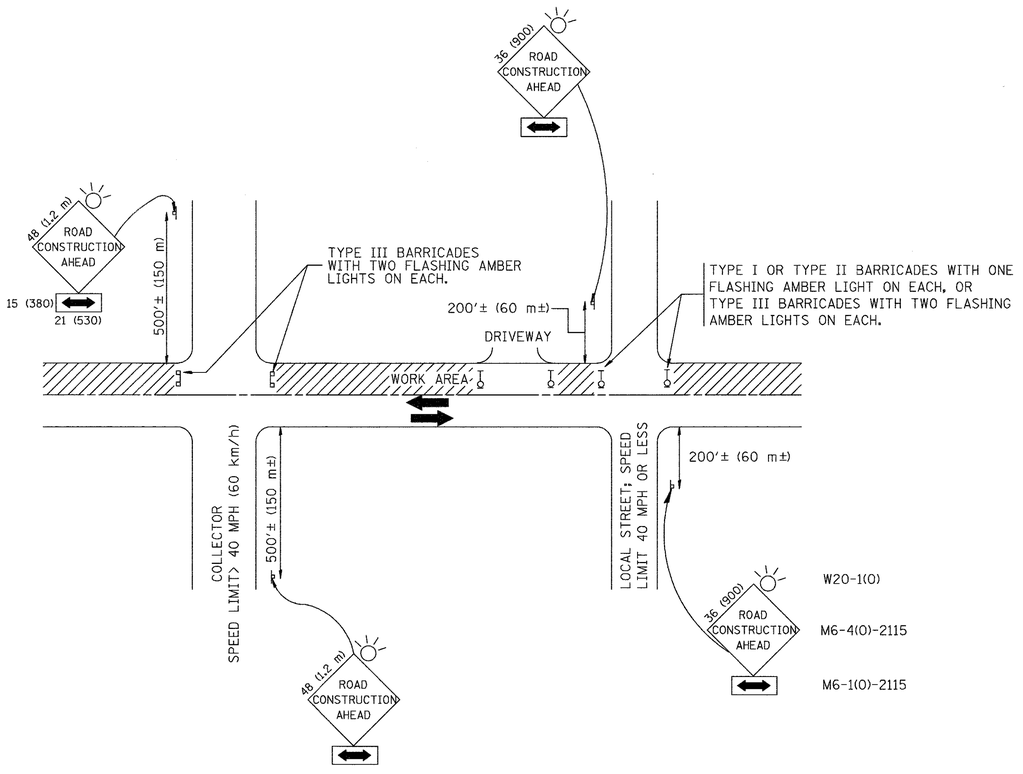
BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

FILE NAME = 10405_02-DTLS-02 - BD32	USER NAME = geglianobt	DESIGNED — M. DE YONG	REVISED — R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS
		CHECKED —	REVISED — A. ABBAS 03-21-97		
	PLOT SCALE = 50.0000 ' / IN.	DRAWN —	REVISED — M. GOMEZ 04-06-01		
	PLOT DATE = 1/4/2008	CHECKED — 06-13-90	REVISED — R. BORO 01-01-07		SCALE: NONE / SHEET NO. 40 OF 57 SHEETS / STA. / TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	40
	BD400-05 BD32	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

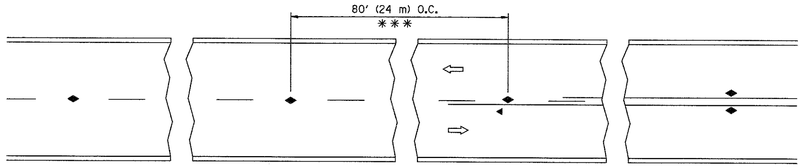
FILE NAME = 10405_02-DTLS-02 - TC10	USER NAME = geglianobt	DESIGNED — LHA	REVISED — J. OBERLE 10-18-95
		CHECKED —	REVISED — A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	DRAWN —	REVISED — A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	CHECKED — 06-89	REVISED —. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

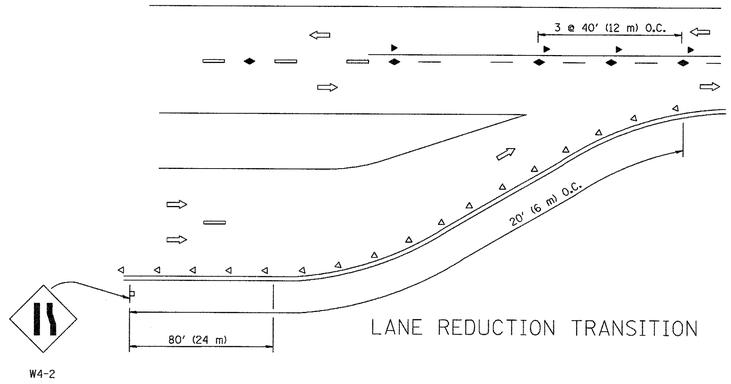
SCALE: NONE | SHEET NO. 41 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	41
	TC-10	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

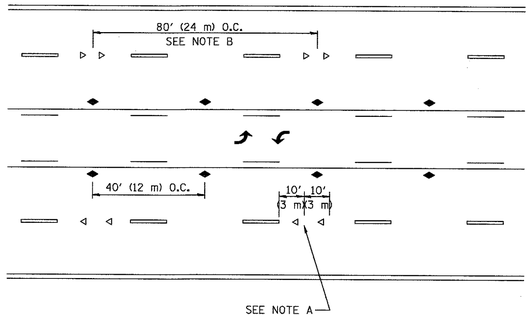


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

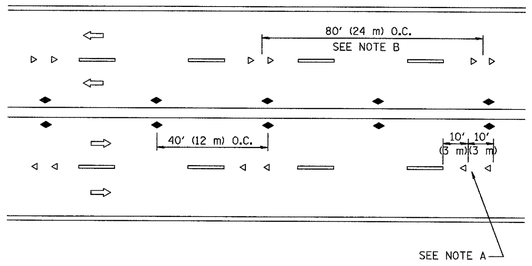
TWO-LANE/TWO-WAY



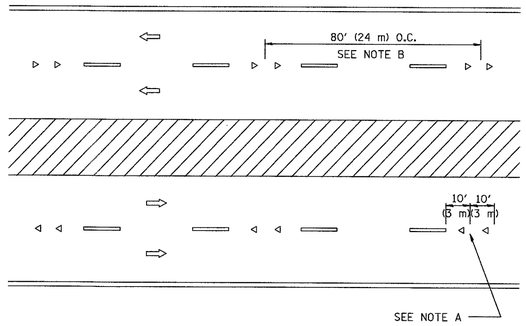
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

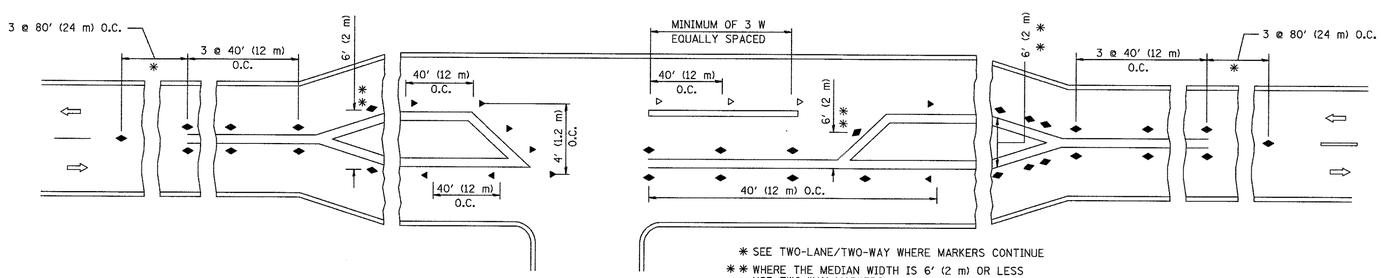
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



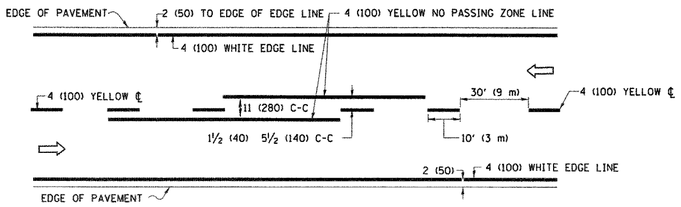
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

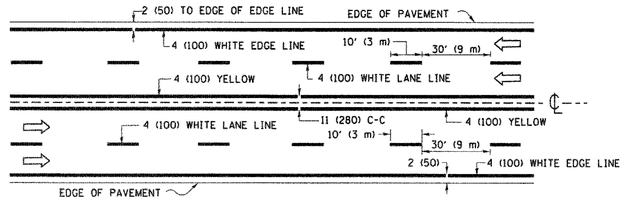
LEFT TURN

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

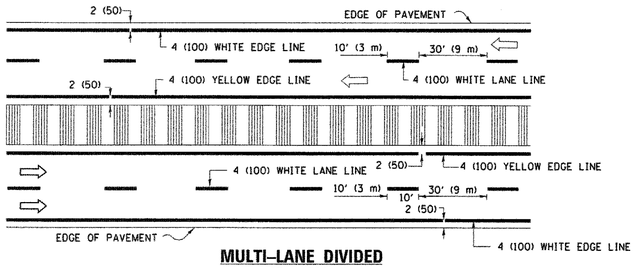
FILE NAME = 10405_02-DTLS-02 - TC11	USER NAME = leysa	DESIGNED —	REVISED — RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED — RAMMACHER 03-12-99				840	09-00041-00-TL	WILL	57	42
	PLOT SCALE = 50.000 ' / IN.	DRAWN —	REVISED — RAMMACHER 01-06-00					TC-11	CONTRACT NO. 61C81		
	PLOT DATE = 3/2/2011	CHECKED —	REVISED — . JUCIUS 09-09-01		SCALE: NONE	SHEET NO. 42 OF 57 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



2–LANE ROADWAY

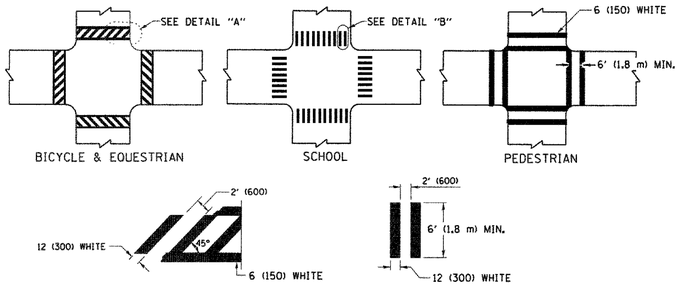


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

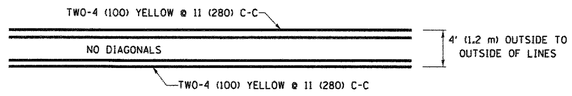
TYPICAL LANE AND EDGE LINE MARKING



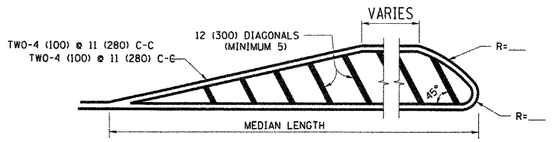
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



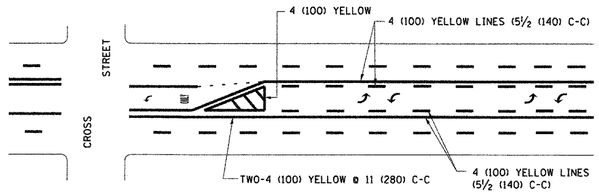
4' (1.2 m) WIDE MEDIANS ONLY



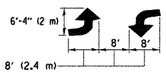
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

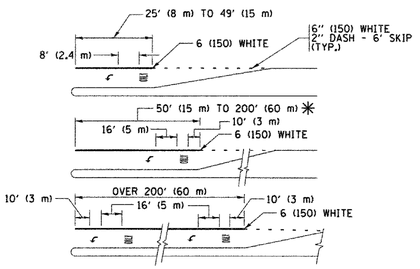


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

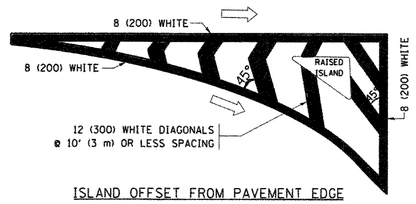


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

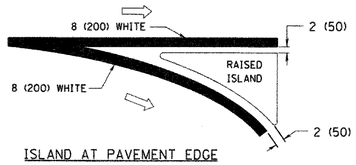
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

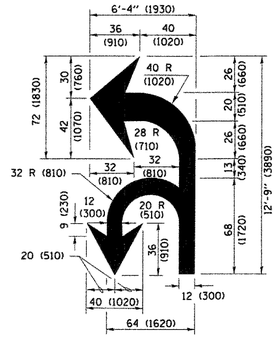


ISLAND OFFSET FROM PAVEMENT EDGE

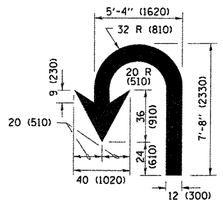


ISLAND AT PAVEMENT EDGE

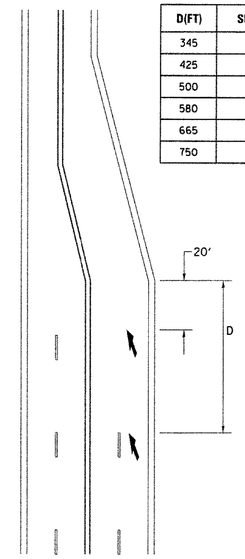
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ⌀ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ⌀ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⌀ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⌀ 6 (150) 12 (300) ⌀ 45° 12 (300) ⌀ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⌀ 4 (100) WITH 12 (300) DIAGONALS ⌀ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⌀ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) ⌀ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

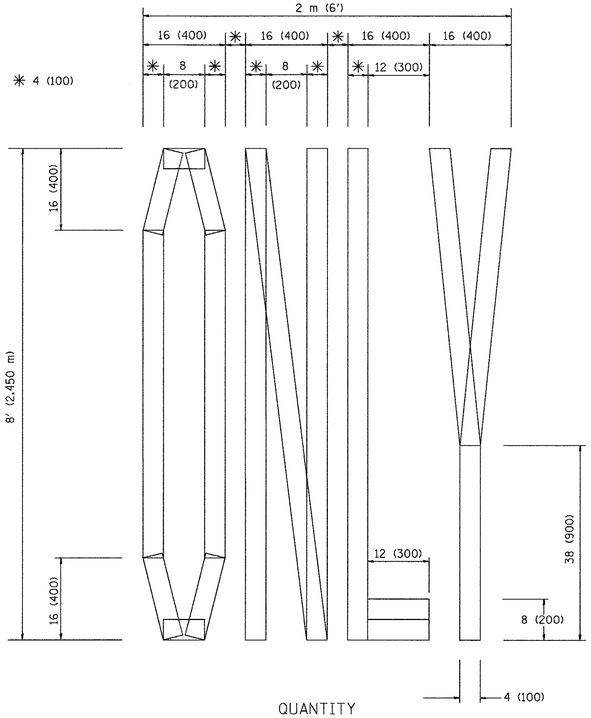
FILE NAME = 10405_02-DTLS-02 - TC13	USER NAME = footemj	DESIGNED — EVERS	REVISED — C. JUCIUS 09-09-09
	'fices\District 1\Projects\Details\	CHECKED —\CADsheets\tc13.dgn	REVISED — C. JUCIUS 07-01-13
	PLOT SCALE = 50.000 '/ in.	DRAWN —	REVISED — C. JUCIUS 12-21-15
	PLOT DATE = 4/13/2016	CHECKED — 03-19-90	REVISED — C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

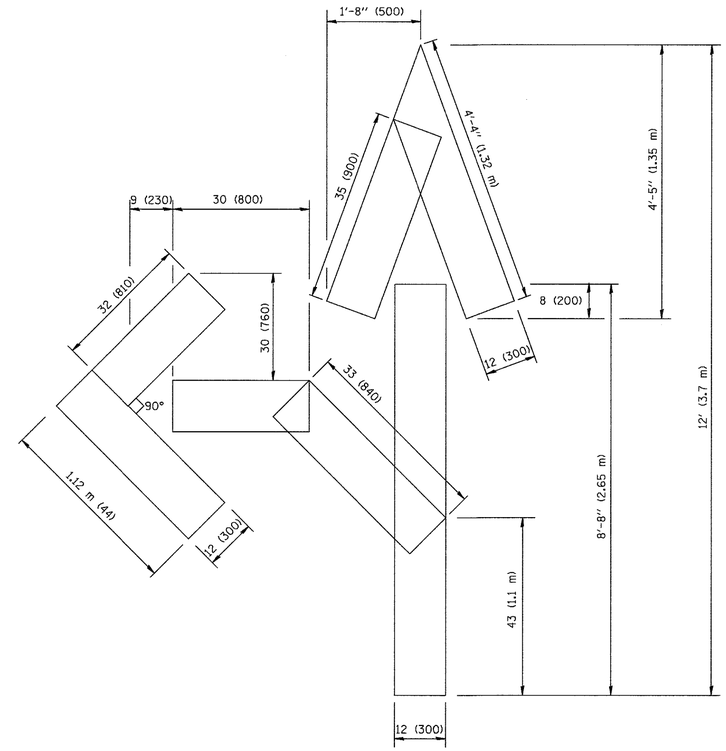
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET NO. 43 OF 57 SHEETS | STA. | TO STA.

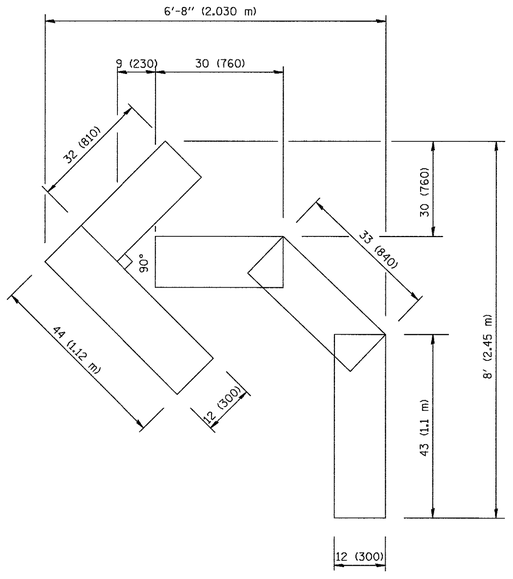
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	43
	TC-13	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = 10405_02-DTLS-02 - TC16	USER NAME = gagliaobt	DESIGNED —	REVISED —T. RAMMACHER 06-05-96
		CHECKED —	REVISED —T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	DRAWN —	REVISED —T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	CHECKED — 09-18-94	REVISED —E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

SCALE: NONE | SHEET NO. 44 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	44
	TC-16	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

ROUTE MARKERS

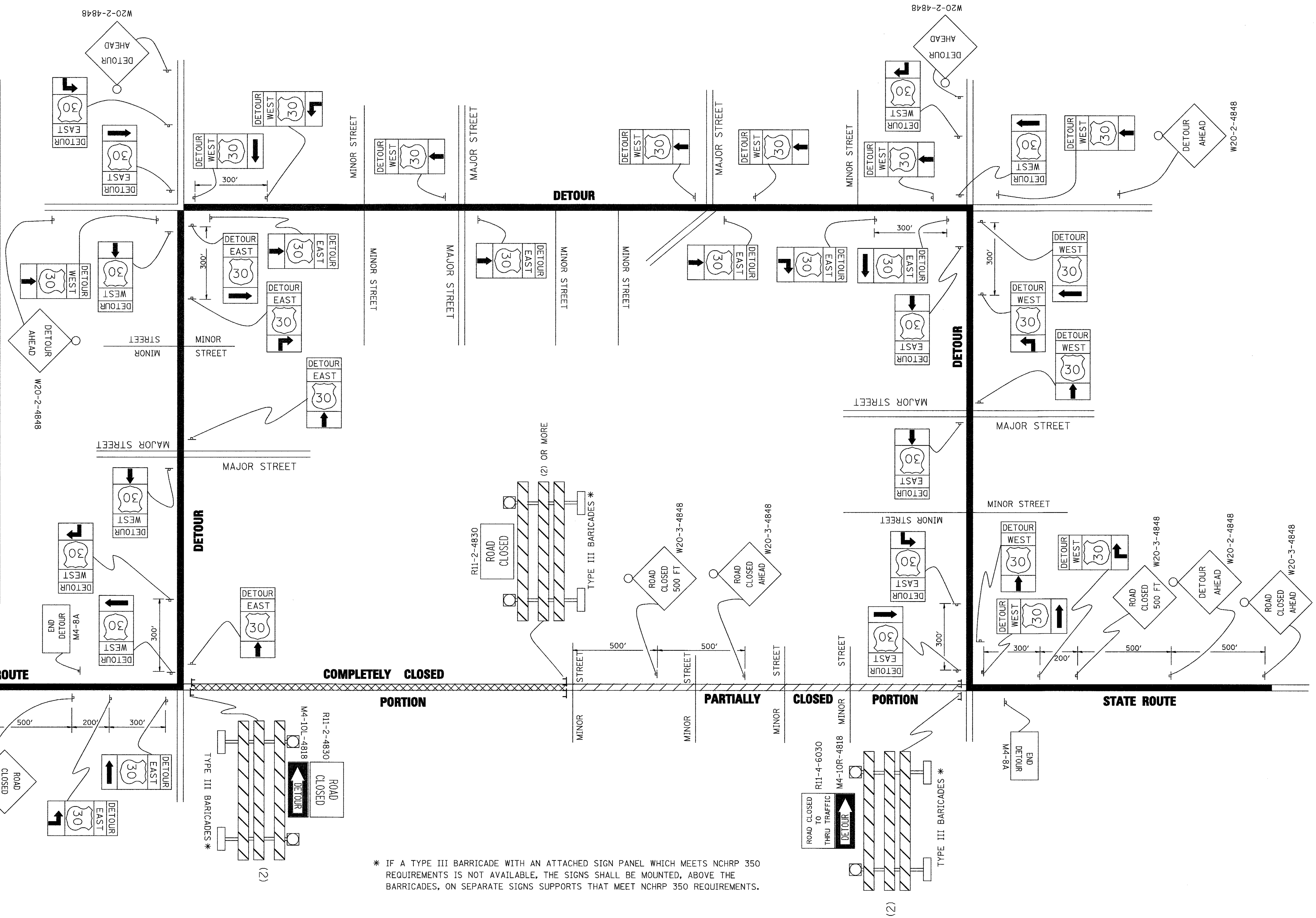
30	FOR U.S. ROUTES M1-40-2424
ILL 53	FOR ILLINOIS ROUTES M1-50-2424
MAIN STREET	R.R. UNMARKED ROUTES SPECIAL 24″ x 18″ VARIABLE 4″ BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

↰	M5-1L-2115
↱	M5-1R-2115
←	M6-1-2115
→	M6-1-2115
↑	M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

NORTH	M3-1-2412
EAST	M3-2-2412
SOUTH	M3-3-2412
WEST	M3-4-2412
DETOUR	M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

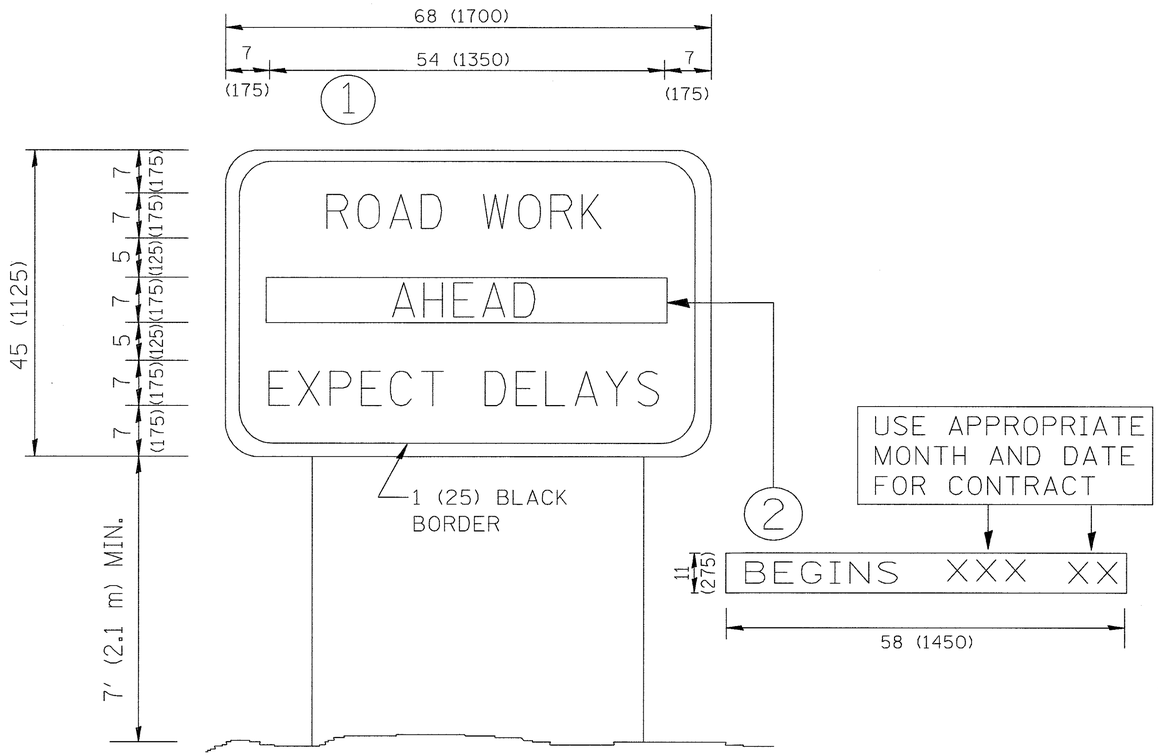
FILE NAME = 10405_02-DTLS-02 - TC21	USER NAME = drivakosgn	DESIGNED —	REVISED —10-18-02
		CHECKED —	REVISED —R. BORO 09-14-09
	PLOT SCALE = 49.9999 ′/ IN.	DRAWN —	REVISED —
	PLOT DATE = 9/14/2009	CHECKED —	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS

SCALE: NONE | SHEET NO. 45 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	45
	TC-21	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

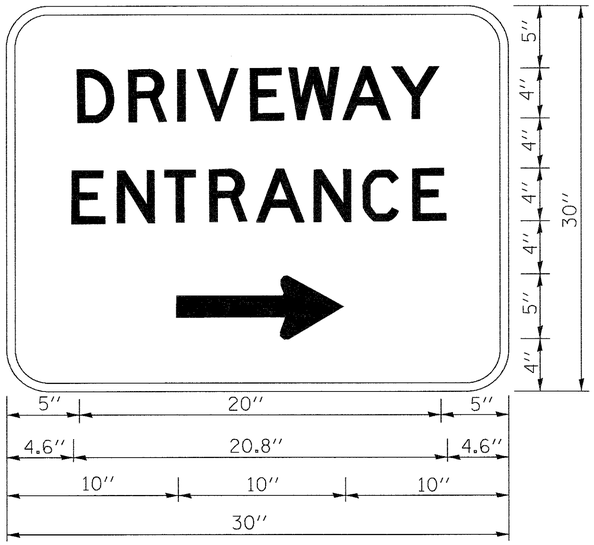
FILE NAME = 10405_02-DTLS-02 - TC22	USER NAME = gaglianobt	DESIGNED —	REVISED — R. MIRS 09-15-97
		CHECKED —	REVISED — R. MIRS 12-11-97
	PLOT SCALE = 50.000 '/ IN.	DRAWN —	REVISED — T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	CHECKED —	REVISED — C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 46 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	46
	TC-22	CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

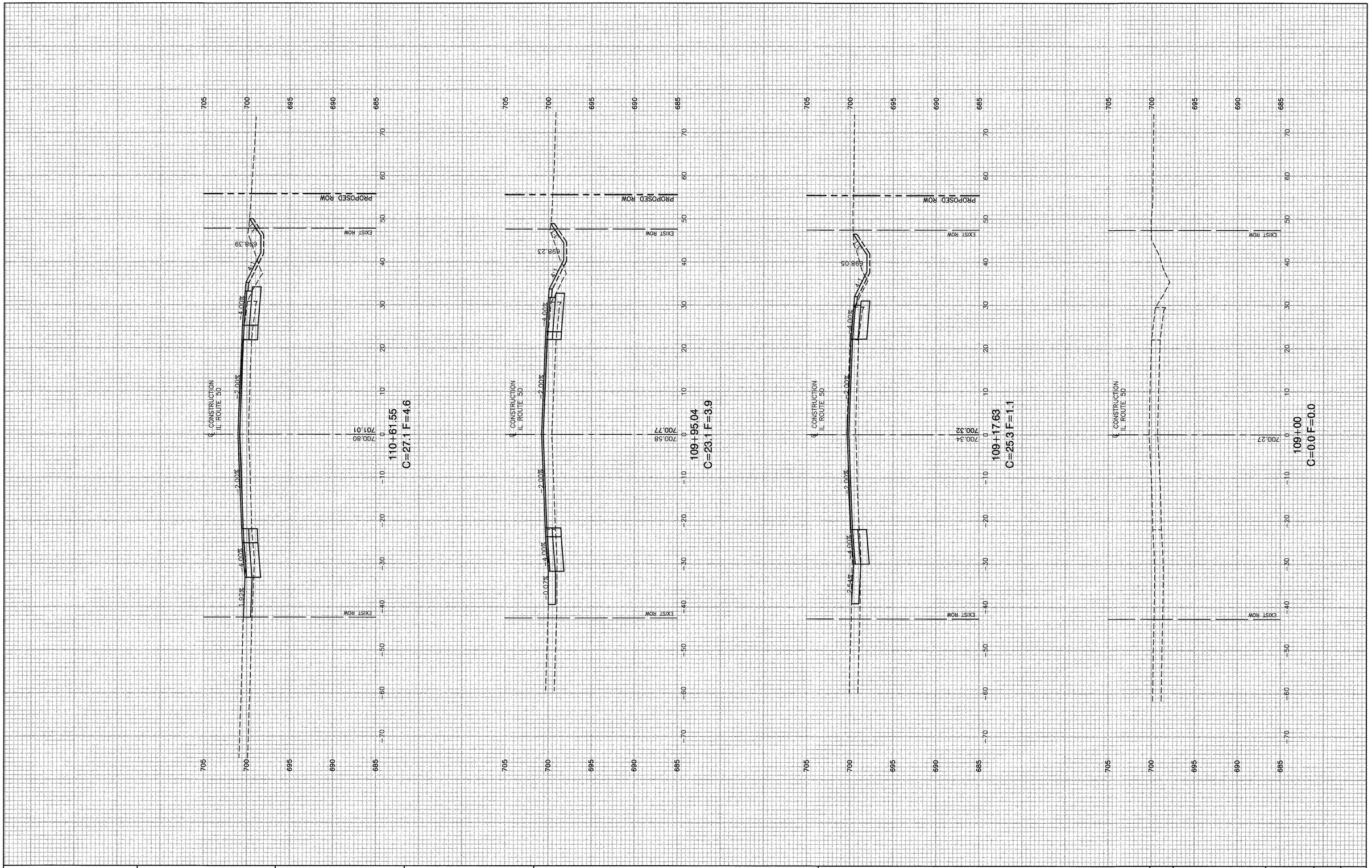


3.0'' RADIUS, 0.5'' BORDER, WHITE ON GREEN; REFLECTORIZED
''DRIVEWAY'' D; ''ENTRANCE'' D; STANDARD ARROW CUSTOM 12.0'' x 5.0''

NOTES:

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

FILE NAME = 10405_02-DTLS-02 - TC26	USER NAME = gaglenobt	DESIGNED —	REVISED — C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED —					840	09-00041-00-TL	WILL	57	47
	PLOT SCALE = 50.000 '/ in.	DRAWN —	REVISED —						TC-26		CONTRACT NO. 61C81	
	PLOT DATE = 12/13/2012	CHECKED —	REVISED —		SCALE: NONE	SHEET NO. 47 OF 57 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



FILE NAME = 10405_02-XSECT-01 - IDOT X(01)

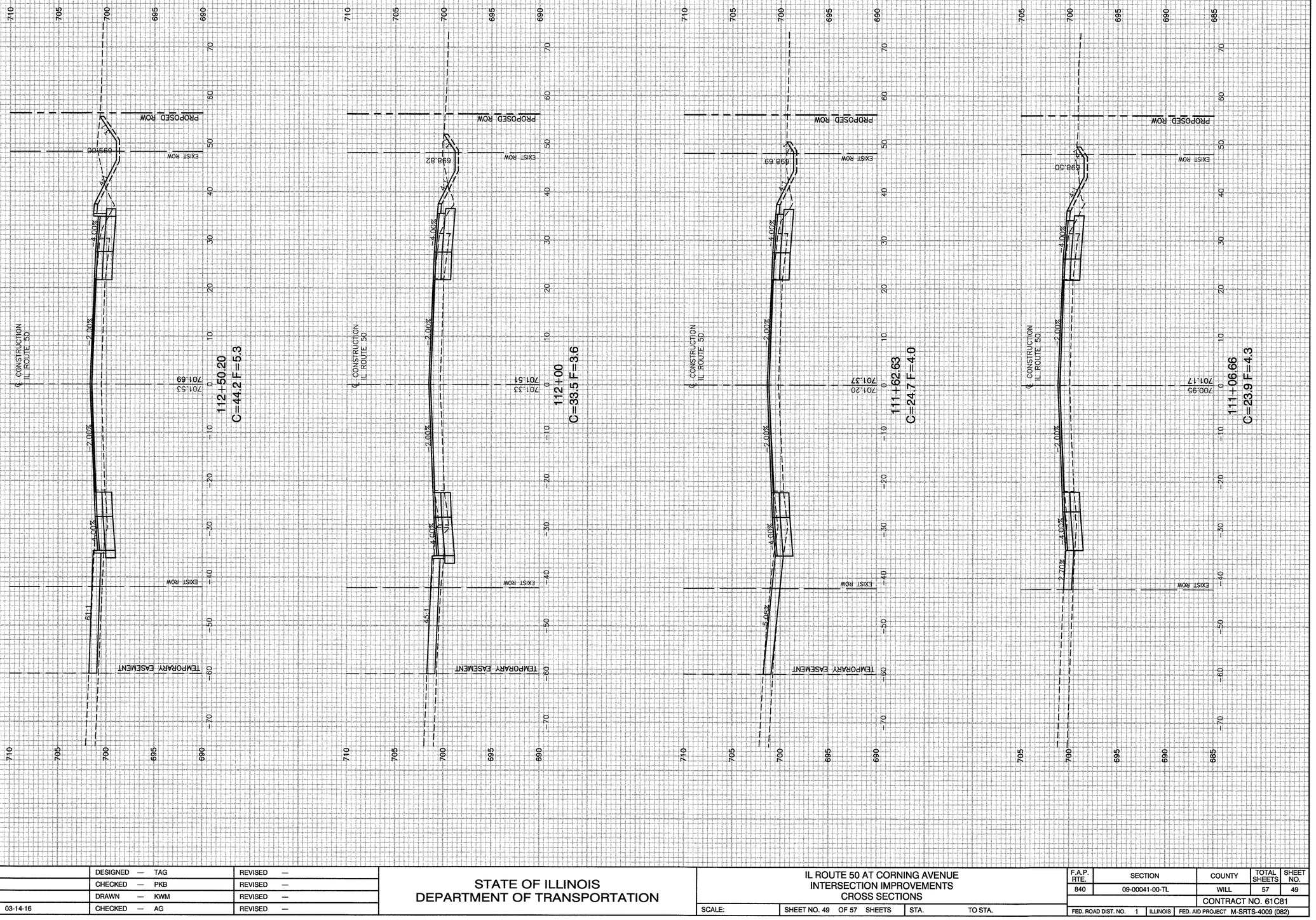
USER NAME =	DESIGNED — TAG	REVISED —	
	CHECKED — PKB	REVISED —	
PLOT SCALE =	DRAWN — KWM	REVISED —	
PLOT DATE = 03-14-16	CHECKED — AG	REVISED —	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

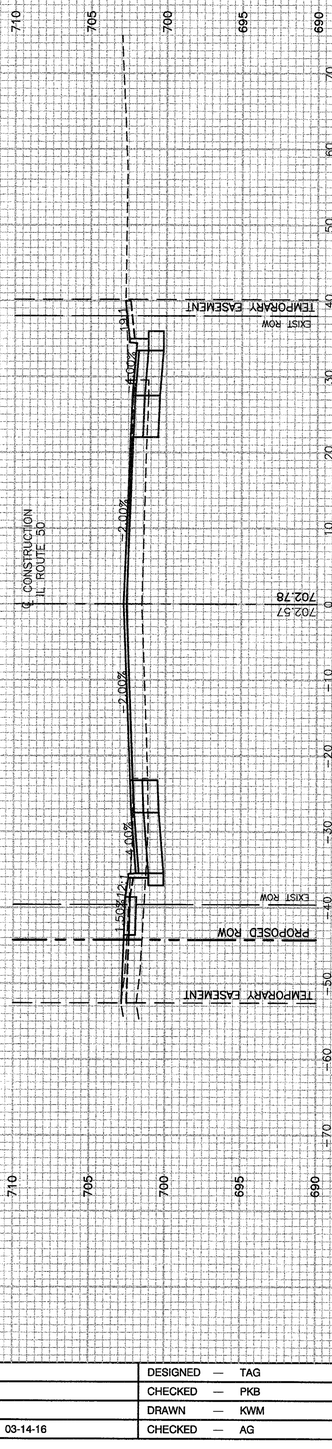
SCALE: | SHEET NO. 48 OF 57 SHEETS | STA. | TO STA.

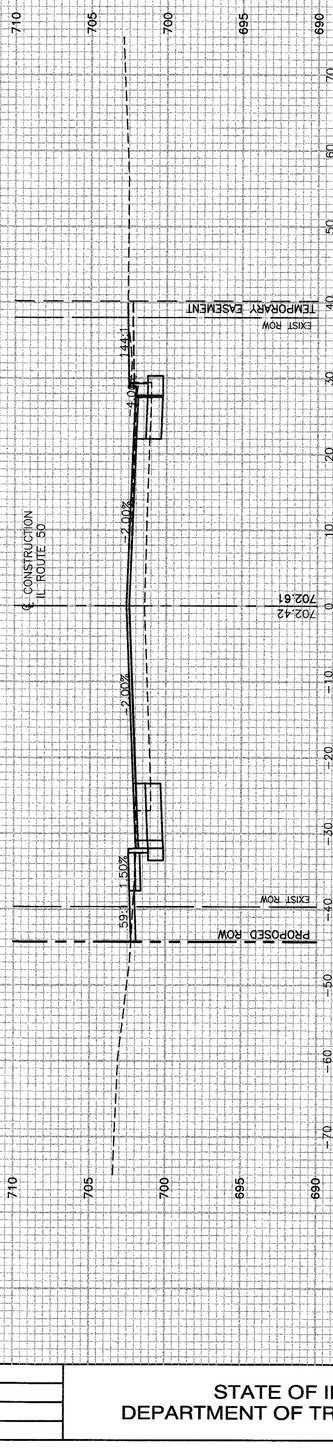
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	48
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

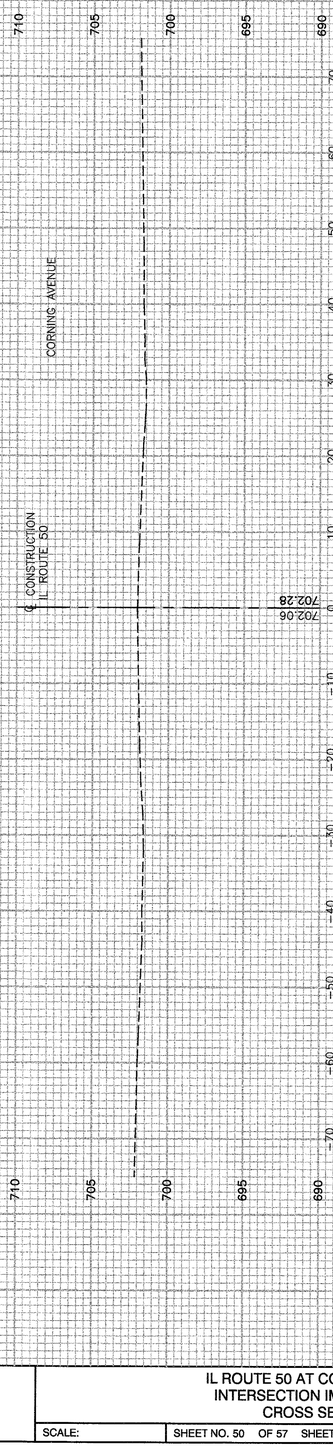


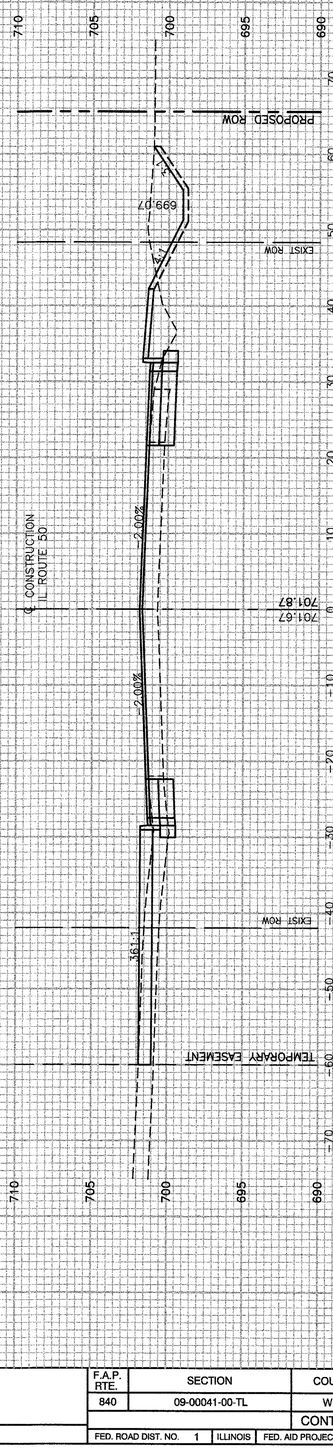
FILE NAME = 10405_02-XSECT-01 - IDOT X(2)	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS CROSS SECTIONS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — KWM	REVISED —		SCALE:
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —		SHEET NO. 49 OF 57 SHEETS
					STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	49
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



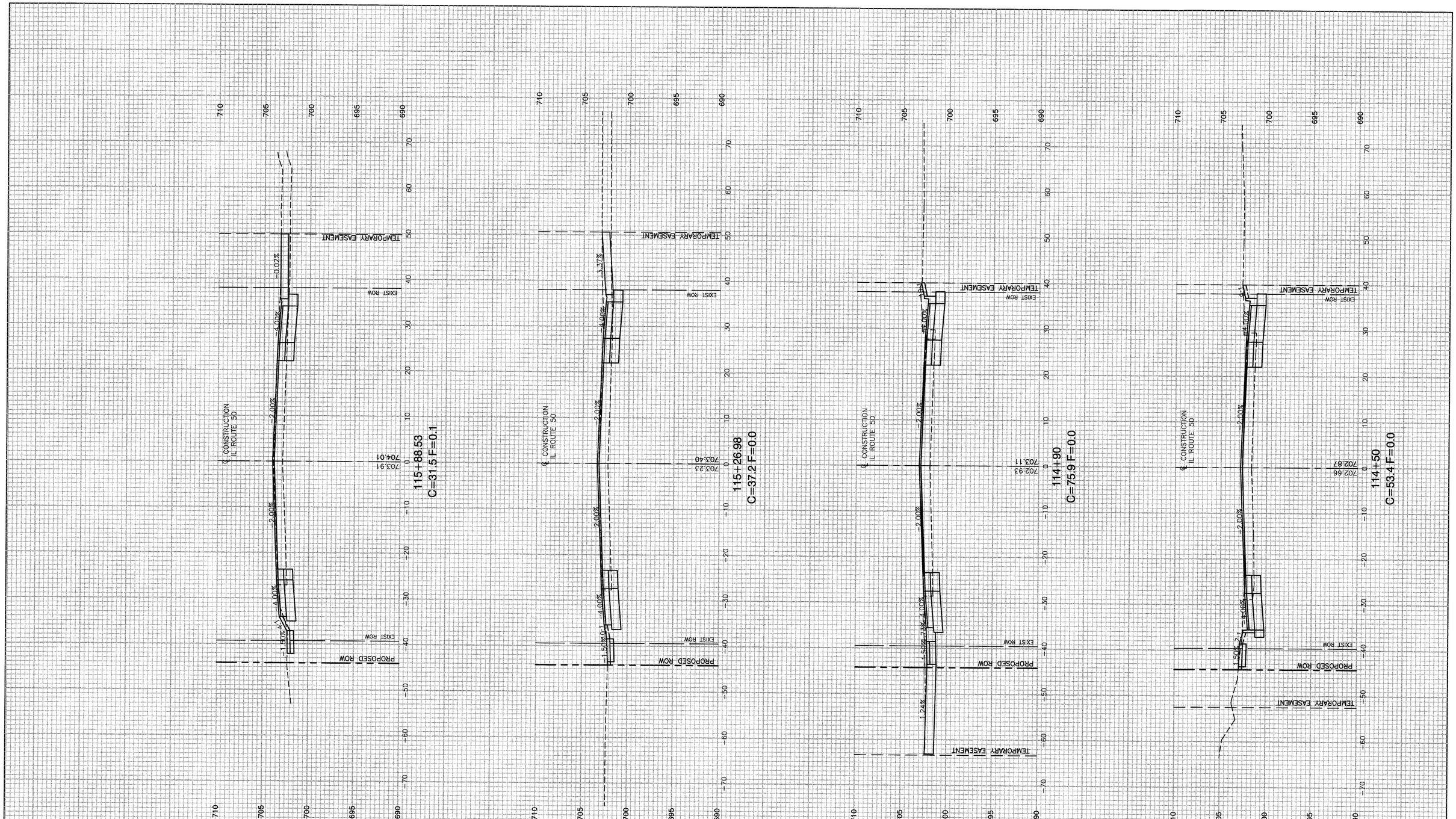






FILE NAME = 10405_02-XSECT-01 - IDOT X(3)	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS CROSS SECTIONS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — KWM	REVISED —		
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —		SCALE: / SHEET NO. 50 OF 57 SHEETS / STA. / TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	50
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



FILE NAME = 10405_02-XSECT-01 - IDOT X(4)	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — KWM	REVISED —
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 51 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	51
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

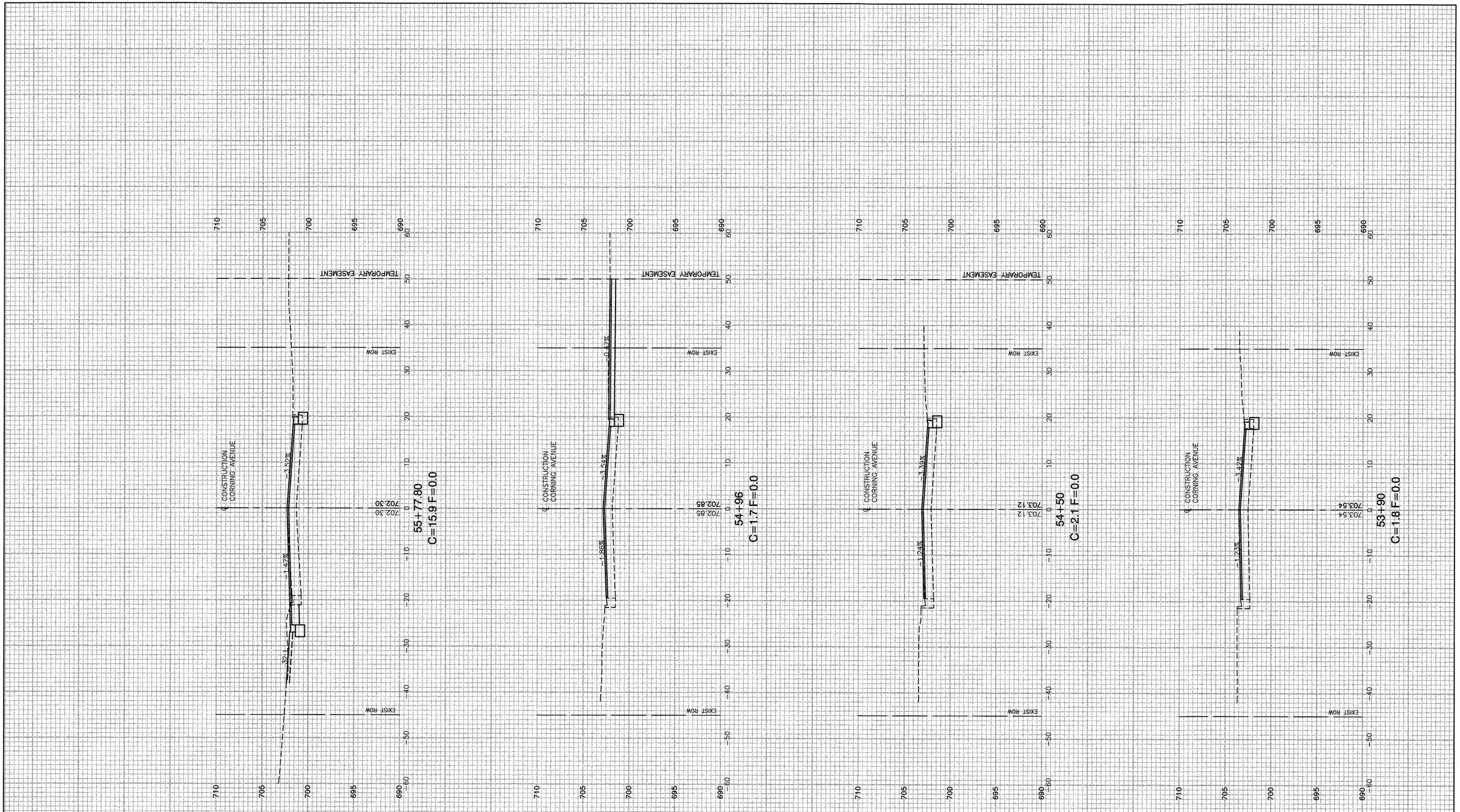
FILE NAME = 10405_02-XSECT-01 - IDOT X(5)	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — KWM	REVISED —
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

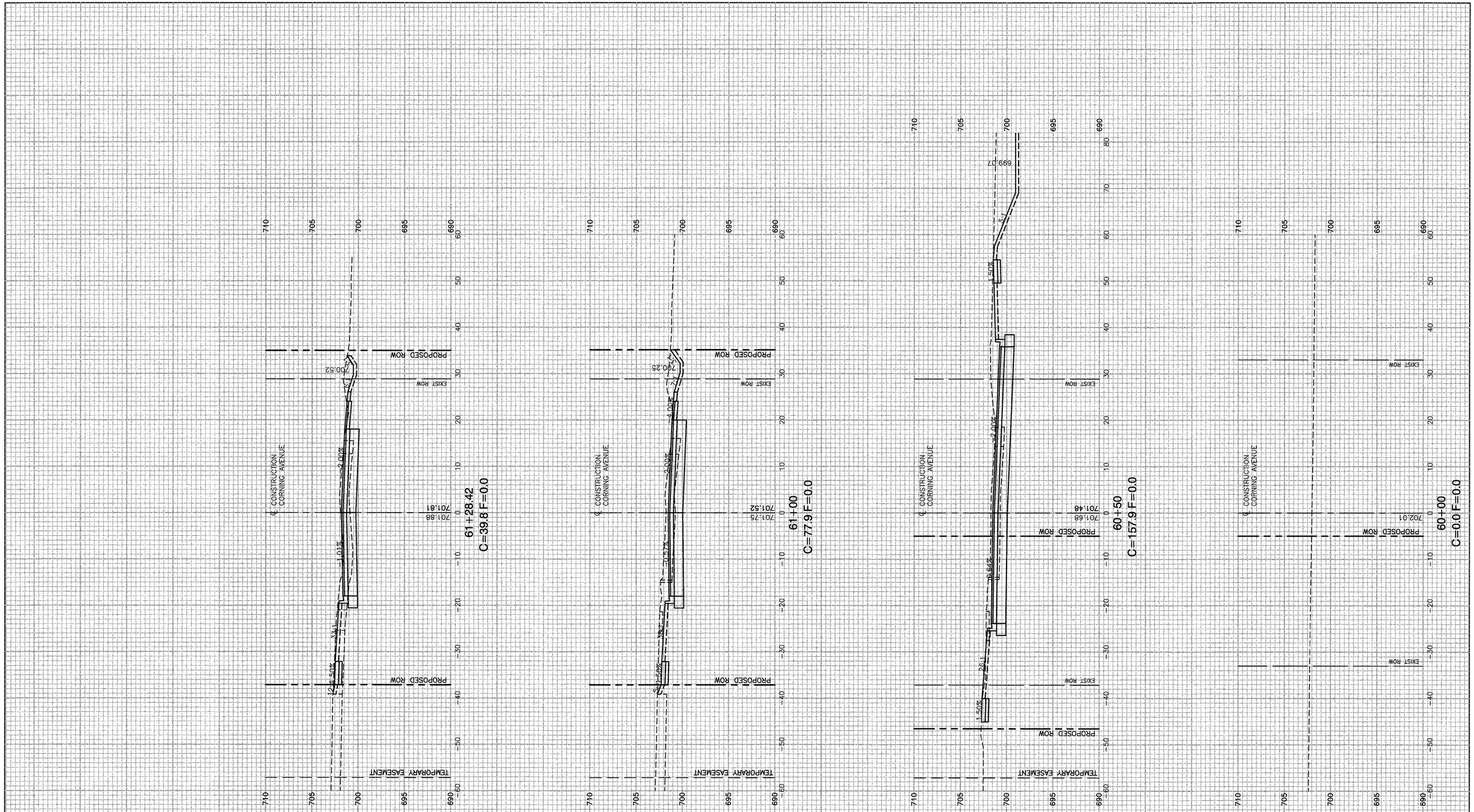
SCALE: | SHEET NO. 52 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	52
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



FILE NAME = 10405_02-XSECT-01 - IDOT X(8)	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS CROSS SECTIONS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — KWM	REVISED —		
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —		SCALE: SHEET NO. 53 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	53
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



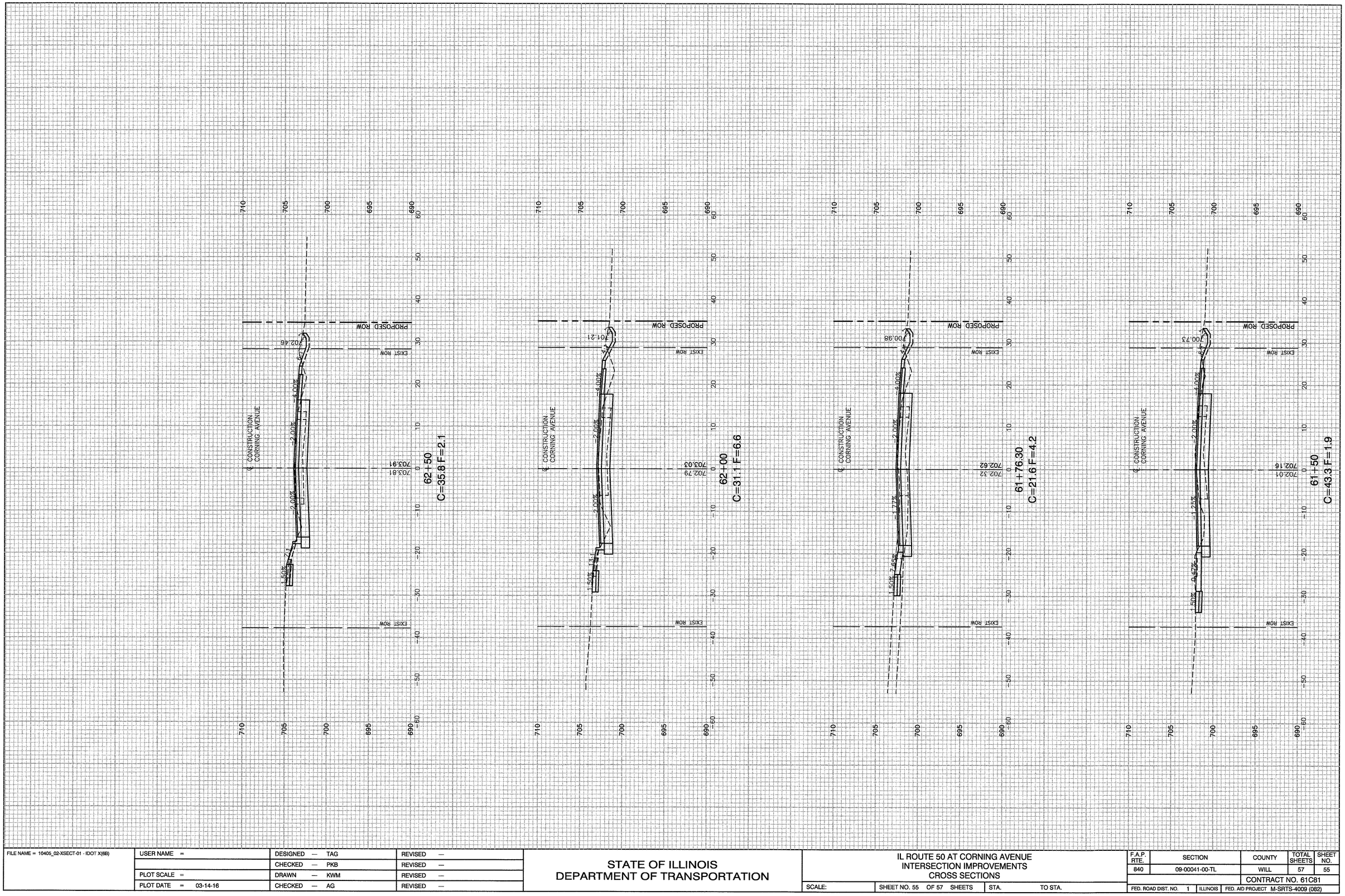
FILE NAME = 10405_02-XSECT-01 - IDOT X(6A)	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — MED	REVISED —
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 54 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	54
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



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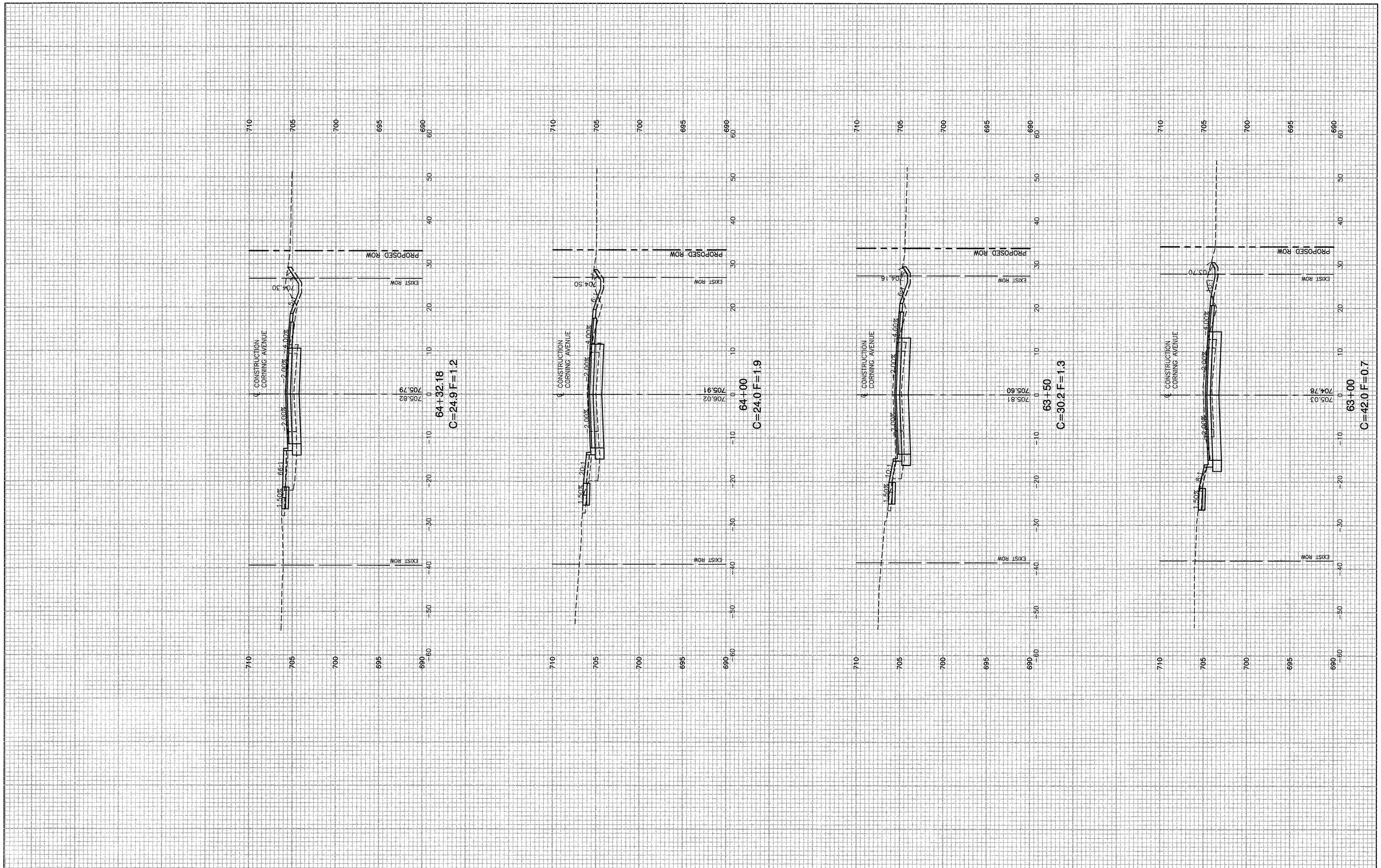
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — KWM	REVISED —
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 AT CORNING AVENUE
INTERSECTION IMPROVEMENTS
CROSS SECTIONS

SCALE: | SHEET NO. 55 OF 57 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	55
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		



FILE NAME = 10405_02-XSECT-01 - IDOT X(6)	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS CROSS SECTIONS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — KWM	REVISED —		
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —		SCALE: SHEET NO. 56 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	56
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		

FILE NAME = 10405_02-XSECT-01 - IDOT X(7)	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 50 AT CORNING AVENUE INTERSECTION IMPROVEMENTS CROSS SECTIONS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — KWM	REVISED —		SCALE:
	PLOT DATE = 03-14-16	CHECKED — AG	REVISED —		SHEET NO. 57 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	09-00041-00-TL	WILL	57	57
		CONTRACT NO. 61C81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT M-SRTS-4009 (082)		