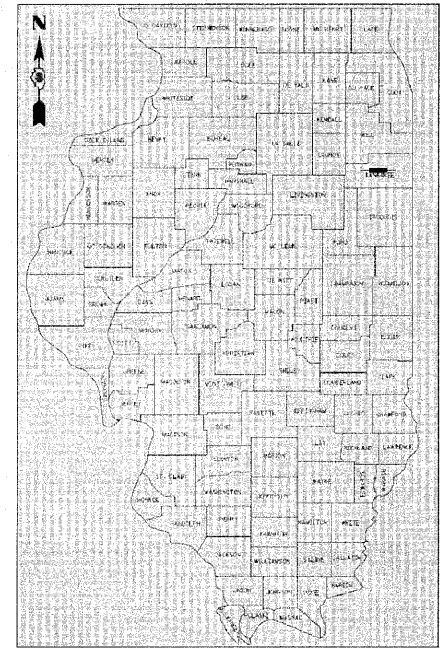


F.A.U. ROUTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHUYLER - F.A.U. 6201	08-00094-00-TL	KANKAKEE	13	01
BROADWAY - F.A.U. 6178	CONTRACT NO.: 87370			

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID SAFE ROUTES TO SCHOOLS BROADWAY & SCHUYLER INTERSECTION

KANKAKEE COUNTY
VILLAGE OF BRADLEY
SECTION NO.: 08-00094-00-TL
PROJECT NO.: SRTS-4008(005)
JOB NO.: C-40-026-08



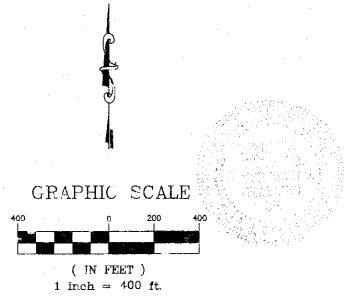
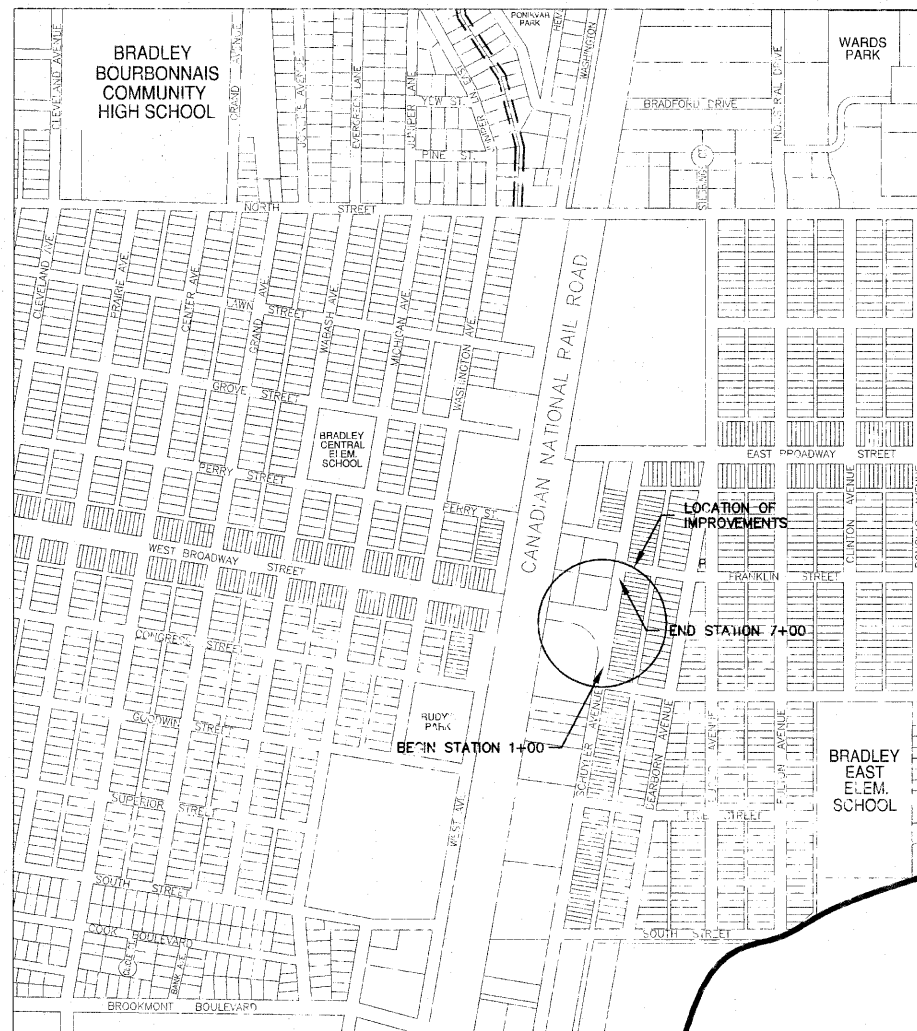
LOCATION OF SECTION INDICATED THUS: —

INDEX OF SHEETS

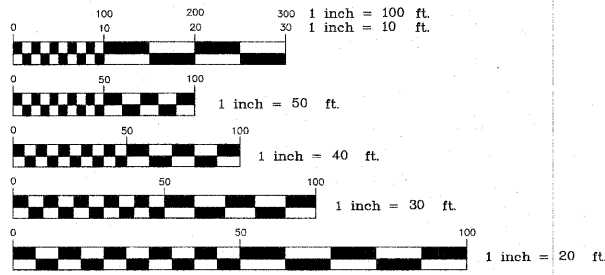
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- 05 PROPOSED TYPICAL CROSS-SECTIONS
- 06 PROPOSED TYPICAL CROSS-SECTIONS
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HIGHWAY STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
- 424001-05 CURB RAMPS FOR SIDEWALKS
- 602301-02 INLET - TYPE A
- 604051-03 FRAME AND GRATE TYPE 11
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-02 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-02 OFF ROAD OPERATIONS, MULTILANE
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701501-05 URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
- 701601-06 URBAN LANE CLOSURE, MULTILANE 2W
- 701606-06 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701901-01 TRAFFIC CONTROL DEVICES
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-02 HANDHOLES
- 814006-02 DOUBLE HANDHOLES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 877001-04 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 877011-04 STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 878001-08 CONCRETE FOUNDATION DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS



TOWNSHIP 31 NORTH, RANGE 12 EAST
TOTAL PROJECT LENGTH: 670 FEET (0.114 MILES)
NET PROJECT LENGTH: 300 FEET (0.114 MILES)



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.

CONTRACT NO.: 87370

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

ROADWAY	FUNCTIONAL CLASSIFICATION	CURRENT ADT (2009)	DESIGN ADT (2030)	DESIGN SPEED
WEST BROADWAY STREET	URBAN COLLECTOR	7800	8275	30 MPH
SCHUYLER AVENUE	URBAN COLLECTOR	10100	10700	30 MPH

M. GINGERICH, GEREUX ASSOCIATES
240 N. Industrial Drive
Bradley, Illinois 60915
815-939-4921
FAX: 815-939-9810

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

APPROVED 7/12/2010 (DATE)
Bruce W. Adams (SIGNATURE)
VILLAGE PRESIDENT, VILLAGE OF BRADLEY

PASSED 7-15-2010 (DATE)
Jim J... (SIGNATURE)
DISTRICT #3 IMPLEMENTATION ENGINEER

RELEASING FOR BID
BASED ON LIMITED
REVIEW 7-15-2010 (DATE)
George F. Reynolds (SIGNATURE)
DEPUTY DIRECTOR OF HIGHWAYS, REGION #2 ENGINEER

Michael A. Gingerich 7-12-2010 (DATE)
MICHAEL A. GINGERICH / P.E. # 062-049785
EXPIRATION DATE OF LICENSE Nov 2011

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

REVISIONS			ILLINOIS DEPARTMENT OF TRANSPORTATION SAFE ROUTES TO SCHOOLS BROADWAY & SCHUYLER INTERSECTION SIGNALS
DATE	BY	DESCRIPTION	
07-29-2010	JWG	PER IDOT REVIEW	COVER SHEET

SCALE: DATE: 12/21/08 DRAWN BY: JWG CHECKED BY:

F.A.U. ROUTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHUYLER - F.A.U. 6201	08-00094-00-TL	KANKAKEE	13	02
BROADWAY - F.A.U. 6178			CONTRACT NO.: 87370	

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: Y031-1F

	ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY		ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY
	* X2500900	SEEDING, CLASS 1 (SPECIAL)	ACRE	0.15		87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
	△ 35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	113		87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
△	* 40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	401		87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
	△ 40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	56		87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
	△ 40603340	HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	281		87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8
	△ 42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,013		* 87800152	CONCRETE FOUNDATION, TYPE C (SPECIAL)	FOOT	4
	△ 42400800	DETECTABLE WARNINGS	SQ FT	12		* 87800410	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER (SPECIAL)	FOOT	30
△	* 44000100	PAVEMENT REMOVAL	SQ YD	613		* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
△	* Z0004548	HOT MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	3,447		88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	△ 44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	506		88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
	△ 44000800	SIDEWALK REMOVAL	SQ FT	714		88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
	△ 44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	617		88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
△	* Z0004554	BARRIER MEDIAN REMOVAL	SQ FT	2,241		88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
△	* Z0037310	PAVEMENT PATCHING (FULL DEPTH)	SQ YD	570		88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
	△ 550B0040	STORM SEWERS, CLASS B, TYPE 1 10"	FOOT	68		* 88500100	INDUCTIVE LOOP DETECTOR	EACH	9
	△ 55100300	STORM SEWER REMOVAL 8"	FOOT	55		88600100	DETECTOR LOOP, TYPE I	FOOT	1,002
△	* 60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	1		88700200	LIGHT DETECTOR	EACH	2
	△ 60255500	MANHOLES TO BE ADJUSTED	EACH	5		88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
	△ 60500060	REMOVING INLETS	EACH	1		88800100	PEDESTRIAN PUSH-BUTTON	EACH	2
△	* 60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	588		X0325969	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE BOARD	CAL DA	85
△	* 60611599	COMBINATION CONCRETE CURB AND GUTTER, (MODIFIED)	FOOT	93		△ * X0350810	BOLLARD REMOVAL	EACH	25
	67100100	MOBILIZATION	L SUM	1		* X8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
	* 70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1		* X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
	72000100	SIGN PANEL - TYPE 1	SQ FT	8		* X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	374
	72000200	SIGN PANEL - TYPE 2	SQ FT	45		X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	250
	72900200	METAL POST - TYPE B	FOOT	30		△ * Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	57
△	78001100	PAINT PAVEMENT MARKING - LETTER AND SYMBOLS	SQ FT	47		* SEE SPECIAL PROVISIONS			
△	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,744		△ SPECIALTY ITEMS			
△	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	120					
△	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	84					
	81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	231					
	81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	256					
	81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	13					
	81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	29					
	81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	20					
	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	165					
	* 81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	390					
	* 81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	87					
	* 81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	6					
	* 81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1					
	81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	252					
	81800200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	288					
	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	2					
	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	5					
	* 84200804	REMOVAL OF POLE FOUNDATION	EACH	5					
	* 85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1					
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	138					
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	152					
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,410					
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	183					
	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,628					
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	98					

* SEE SPECIAL PROVISIONS



REVISIONS		
DATE	BY	DESCRIPTION
01-05-2008	JWG	PER IDOT REVIEW
01-15-2008	JWG	PER IDOT REVIEW

ILLINOIS DEPARTMENT OF TRANSPORTATION
SAFE ROUTES TO SCHOOLS
BROADWAY & SCHUYLER INTERSECTION SIGNALS

SUMMARY OF QUANTITIES

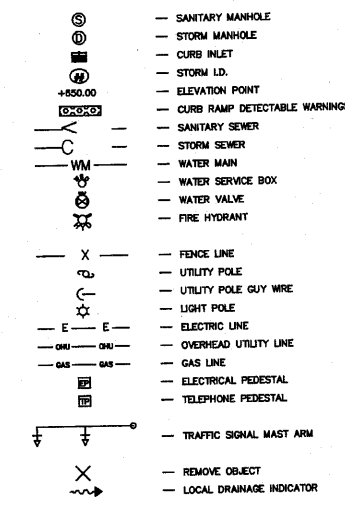
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DATE: 12/21/08 CHECKED BY: _____

GENERAL NOTES

- ALL APPLICABLE ROAD IMPROVEMENTS, DRAINAGE FEATURES, LANDSCAPING, RESTORATION, WORK ZONE TRAFFIC CONTROL AND OTHER CONSTRUCTION ACTIVITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "IDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION", CURRENT EDITION AND APPLICABLE STANDARDS. (IDOT SPECIFICATIONS)
- ALL APPLICABLE SOIL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY "STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", CURRENT EDITION, ALONG WITH APPLICABLE STANDARDS. (EPA SPECIFICATIONS)
- WATER MAIN, SANITARY SEWERS AND STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR WATER AND SEWER", ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, CURRENT EDITION. (ISPE SPECIFICATIONS)
- MG2A HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTORS SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.
- CONTRACTOR(S) SHALL COMPLY WITH ALL LOCAL AND STATE SAFETY LAWS, REGULATIONS AND ORDINANCES; AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS AND WITH ALL PROVISIONS AND REGULATIONS OF THE OSHA STANDARDS. EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SAFE WORKING PLACE FOR HIS EMPLOYEES. CONTRACTOR(S) ARE RESPONSIBLE FOR THE SUPERVISION, DIRECTION AND CONDUCT OF THEIR EMPLOYEES, AGENTS, MATERIAL SUPPLIERS AND VENDORS.
- THE DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS PRESENTED ON THESE DRAWINGS ARE AND SHALL REMAIN THE PROPERTY OF MG2A, AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF MG2A.
- EQUALS SHALL BE DETERMINED BY MG2A AND MAY REQUIRE THE APPROVAL OF VARIOUS AGENCIES PERMITTING THE WORK.
- MG2A, THE OWNER, AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK ARE TO BE NOTIFIED PRIOR TO THE CONSTRUCTION OF ANY IMPROVEMENTS NOT DESCRIBED ON THESE DRAWINGS OR CONSTRUCTING IMPROVEMENTS DIFFERENTLY THAN AS DESCRIBED ON THESE DRAWINGS (FIELD CHANGES). GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THIS WORK INCLUDE: THE VILLAGE OF BRADLEY AND THEIR ENGINEER, M. GINGERICH, GEREAX, & ASSOCIATES.
- ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS UNLESS OTHERWISE SPECIFIED.
- MG2A, THE OWNER, AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK ARE TO BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 24 HOURS PRIOR TO COVERING ANY EXPOSED SUBGRADE, PLACING ANY FILL, BACKFILLING SANITARY, WATER, OR STORM LINES, PLACING BASE COURSE STONE, PLACING CONCRETE, OR PLACING ASPHALT.
- THE CONTRACTOR SHALL CALL JULIE # 1-800-892-0123 PRIOR TO ANY EXCAVATION TO ASURE ALL UTILITIES ARE LOCATED PROPERLY. DAMAGE TO UTILITIES SHALL BE PROMPLY REPORTED TO THE UTILITY OWNER AND REPAIRED AT THE CONTRACTORS EXPENSE.
- EXISTING STORM SEWERS, SANITARY SEWERS, WATER MAINS, AND OTHER UTILITIES MAY EXIST BUT MAY NOT HAVE BEEN MARKED BY JULIE. THESE UTILITIES MAY NOT APPEAR ON THE FINAL PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL CONTACT MUNICIPAL, COUNTY, AND STATE GOVERNMENTAL AGENCIES THAT MAY REASONABLY BE EXPECTED TO HAVE UTILITIES ON OR NEAR AREAS TO BE EXCAVATED IN ORDER TO HAVE THE UTILITIES LOCATED PROPERLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MG2A AND THE UTILITY OWNER TO RESOLVE ANY UTILITY OR OTHER CONFLICTS NOT INDICATED WITHIN THE PLANS PRIOR TO INSTITUTING ANY CHANGES.

- EXPANSION JOINTS SHALL BE INSTALLED AT A MAXIMUM SPACING OF 200 FT IN STRAIGHT SECTIONS OF THE CURB AND GUTTER, AT ALL P.C. AND P.T. POINTS IN THE CURB; AND FIVE FT ON EACH SIDE OF ALL INLETS. IF AN INLET IS LOCATED ON A CURVE, EXPANSION JOINTS NEED ONLY TO BE PLACED AT THE P.C. AND P.T.
- AGGREGATE BASE COURSE MATERIALS SHALL BE APPLIED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE ARTICLES OF THE IDOT SPECIFICATIONS.
- BITUMINOUS SURFACE AND BINDER COURSE MATERIALS SHALL BE APPLIED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE ARTICLES OF THE IDOT SPECIFICATIONS.
- ALL PAVED AREAS SHALL BE SAWCUT PRIOR TO REMOVAL.
- TRENCH BACKFILL SHALL BE USED IN ALL TRENCHES UNDER AND WITHIN 3 FEET OF PAVED AREAS AND IN ACCORDANCE WITH THE APPLICABLE ARTICLES OF THE IDOT SPECIFICATIONS, ISPE SPECIFICATIONS, AND THE SPECIAL PROVISIONS.
- CARE SHALL BE TAKEN AT THE PROPOSED INTERSECTION OF SIDEWALKS AND CURBS TO CONSTRUCT THE SIDEWALK AND CURB IN ORDER TO ASSURE PROPER ACCESSIBILITY TO THE DISABLED.
- ALL STORM STRUCTURES ARE TO BE INSTALLED UTILIZING PROPER FILLETS.
- O-RING GASKETS TO BE USED FOR STORM SEWER WITHIN 10 FEET OF A WATER MAIN CROSSING.
- THE EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS SHALL BE CONSIDERED AGREED TO BY THE CONTRACTOR(S). THE CONTRACTOR(S) MAY, AT THERE OWN COST, COLLECT ADDITIONAL TOPOGRAPHIC INFORMATION PRIOR TO COMMENCING WITH WORK DESCRIBED ON THESE PLANS. ANY DISCREPANCIES BETWEEN TOPOGRAPHIC DATA COLLECTED BY THE CONTRACTOR(S) AND THE EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS SHALL BE REPORTED TO MG2A AND THE OWNER PRIOR TO COMMENCEMENT OF WORK.
- SURPLUS EXCAVATED SOIL MATERIALS SHALL BE REMOVED FROM THE SITE.
- THE CONTRACTOR SHALL PROVIDE ALL EARTH MATERIAL REQUIRED TO ACHIEVE THE WORK DESCRIBED IN THESE FINAL PLANS AND SPECIFICATIONS. THIS INCLUDES PROVIDING AND HAULING SUITABLE FILL TO THE SITE AS MAY BE NECESSARY.
- ALL FILLS SHALL BE COMPACTED LIFTS WITH A MAXIMUM THICKNESS OF 6 INCHES OR AS OTHERWISE SPECIFIED BY THE OWNER OR OWNERS REPRESENTATIVE.
- PRIOR TO COMMENCING ANY FILL OPERATIONS IN STRUCTURAL BUILDING, PAVEMENT OR SIDEWALK AREAS, ALL TOPSOIL IS TO BE REMOVED.
- UPON STRIPPING OF TOPSOIL FROM STRUCTURAL, PAVEMENT AND/OR UTILITY AREAS AND PRIOR TO PLACEMENT OF FILL OF ANY TYPE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR THE OWNER.
- FINAL TOPSOIL THICKNESS IN LANDSCAPE AREAS SHALL BE A MINIMUM OF 4" UNLESS OTHERWISE SPECIFIED BY THE OWNERS REPRESENTATIVE.
- UNLESS OTHER WISE AGREED TO BY THE OWNER AND CONTRACTOR, EARTHWORK INCLUDES ALL CLEARING, GRUBBING, TREE REMOVAL, EXCAVATION, FILL, OVERHAUL, FINISHED GRADING, AND PLACEMENT OF TOPSOIL TO ACHIEVE THE WORK DESCRIBED IN THESE FINAL PLANS AND SPECIFICATIONS.
- THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REPLACE OR REMOVE THE SIGNS AS DIRECTED BY THE ENGINEER, THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.

LEGEND



PAVEMENT DESIGN

CLASS II, 2 LANE PAVEMENT
DESIGN PERIOD - 20 YEARS
DESIGN TRAFFIC
EXISTING ADT - 10100
DESIGN ADT - 10400
PV (95%) - 9880
SU (4%) - 416
MU (1%) - 104
73,280 POUND LOAD LIMIT
TRAFFIC FACTOR (T.F.)
T.F. = $\frac{DP(0.073 PV + 44.530 SU + 156.403 MU)}{1,000,000}$
T.F. = $\frac{20(0.073 \times 9880 + 44.530 \times 416 + 156.403 \times 104)}{1,000,000}$
T.F. = 0.71
SUBGRADE SUPPORT RATING - POOR
MIXTURE TEMPERATURE - 78.5
DESIGN STRAIN - 120
DESIGN Eac - 580

PAVEMENT THICKNESS - 9 INCHES

	HMA BINDER (PATCHES)	HMA LEVEL BINDER	HMA SURFACE
PG GRADE	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N70	4.0% @ N70	4.0% @ N70
MIXTURE COMPISITION	IL 19.0L	IL 9.5	IL 9.5
FRICTION AGGREGATE			MIXTURE D
DENSITY TEST METHOD	NUCLEAR/ CORES	SATISFACTION OF ENGINEER	NUCLEAR/ CORES

UTILITY

ELECTRIC
COM ED
DAVE NELSON
708-235-2350

TELEPHONE
AT&T
TODD ANDREW
708-280-0876

CABLE
COMCAST
JIM BRANDT
815-937-2708

GAS
NICOR
ROBERT GRAHAM
815-221-4311

WATER
AQUA
RODNEY PHILLIPPI
815-935-6535

PUBLIC WORKS
VILLAGE OF BRADLEY
JIM TRAVIS
815-933-5008



REVISIONS		
DATE	BY	DESCRIPTION
07-29-2010	JWG	PER IDOT REVIEW

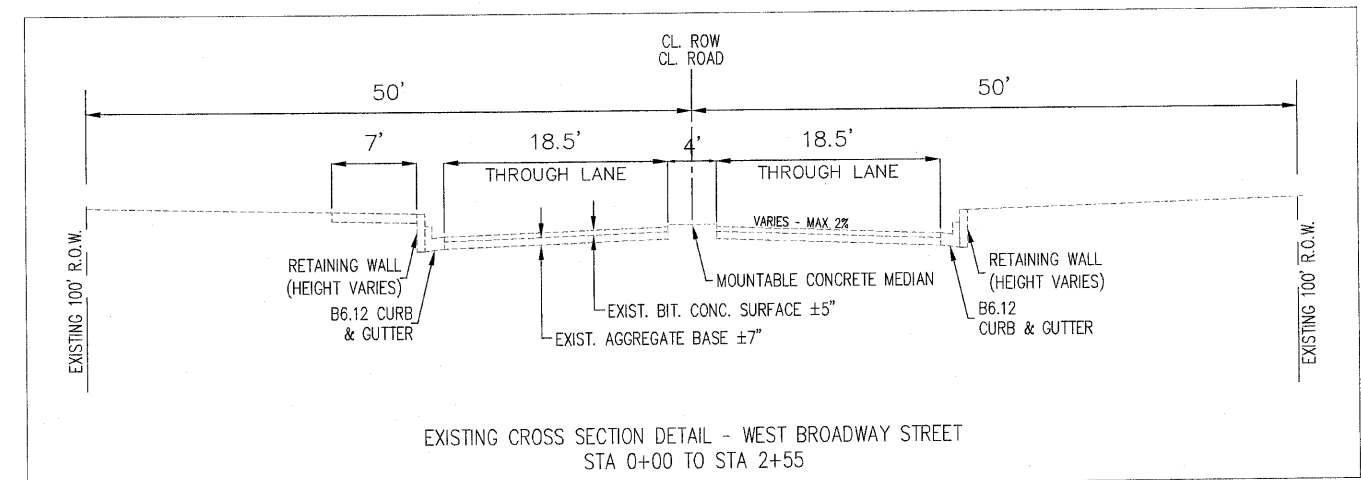
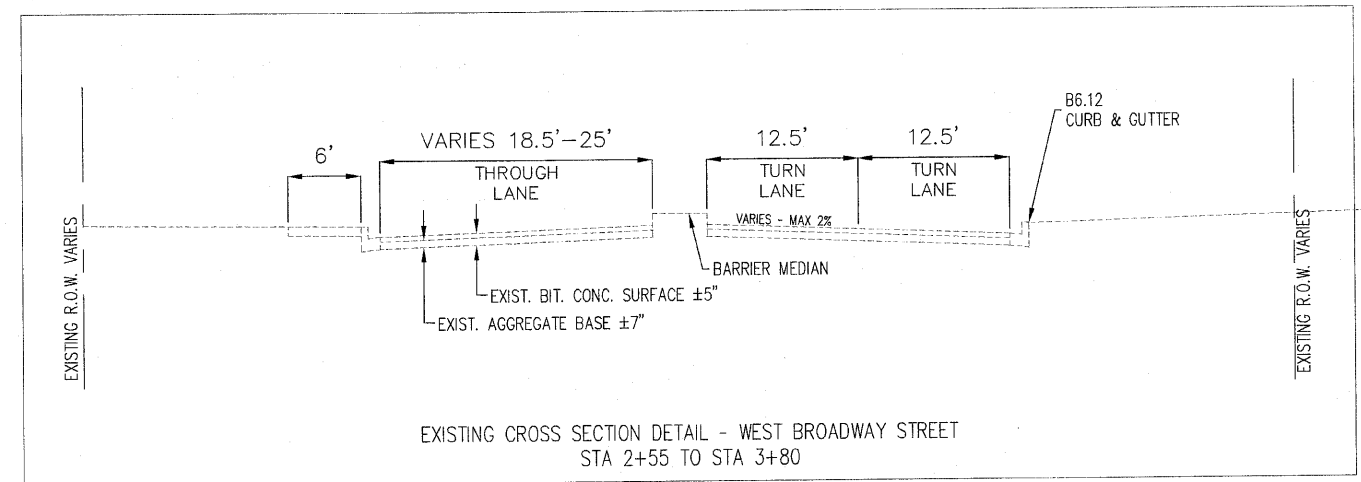
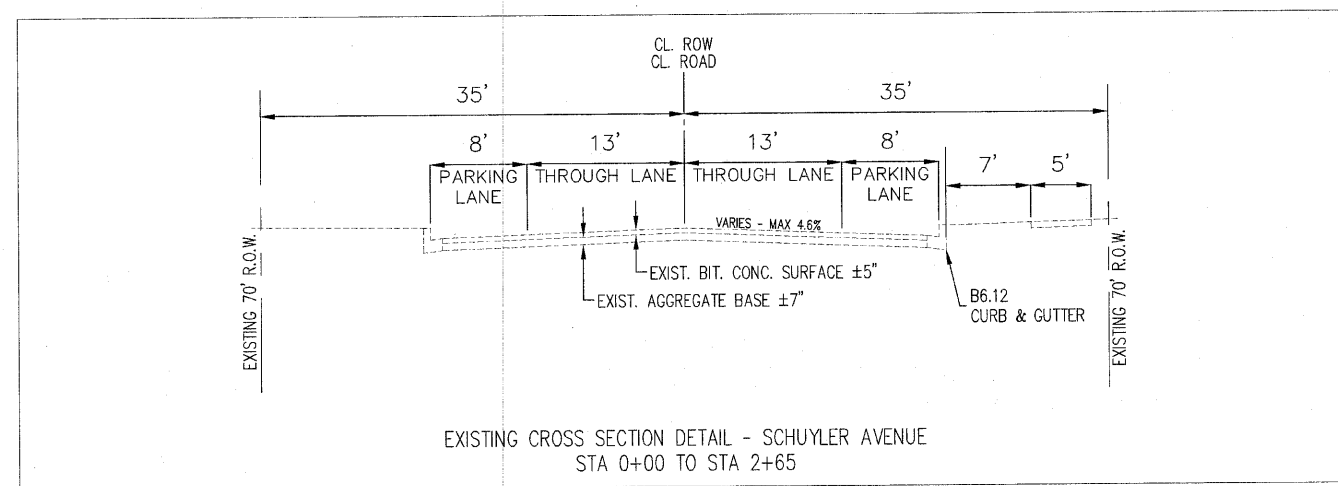
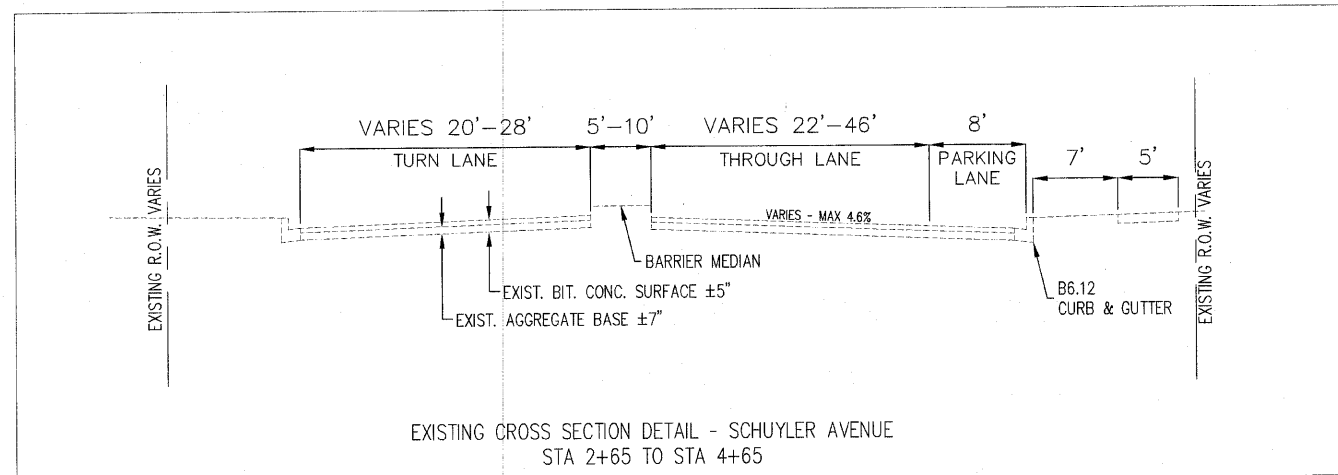
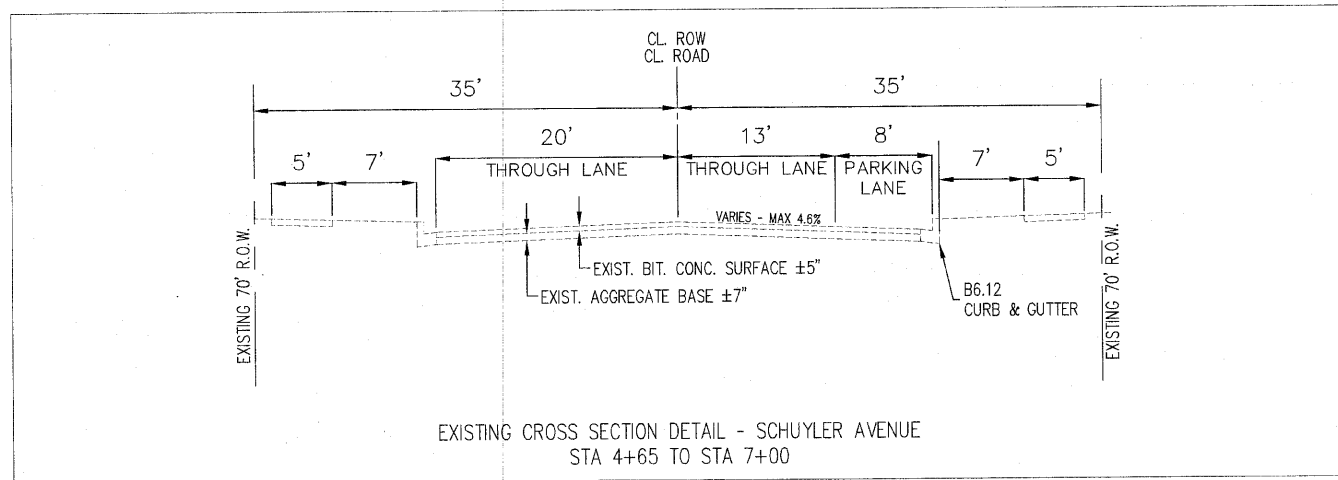
ILLINOIS DEPARTMENT OF TRANSPORTATION
SAFE ROUTES TO SCHOOLS
BROADWAY & SCHUYLER INTERSECTION SIGNALS

GENERAL NOTES

SCALE: DATE: 12/21/08

DRAWN BY: JWG
CHECKED BY:

F.A.U. ROUTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHUYLER - F.A.U. 6201	08-00094-00-TL	KANKAKEE	13	04
BROADWAY - F.A.U. 6178			CONTRACT NO.: 87370	



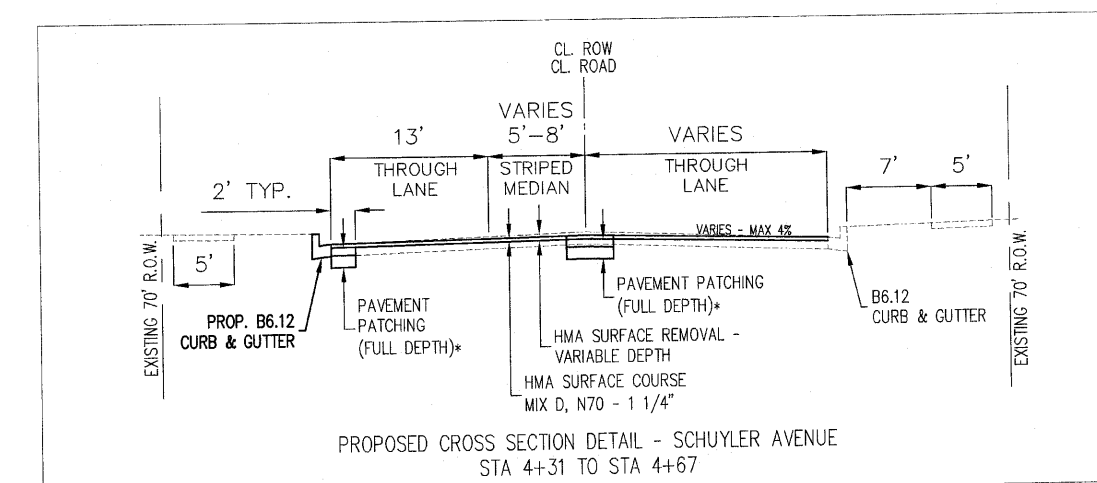
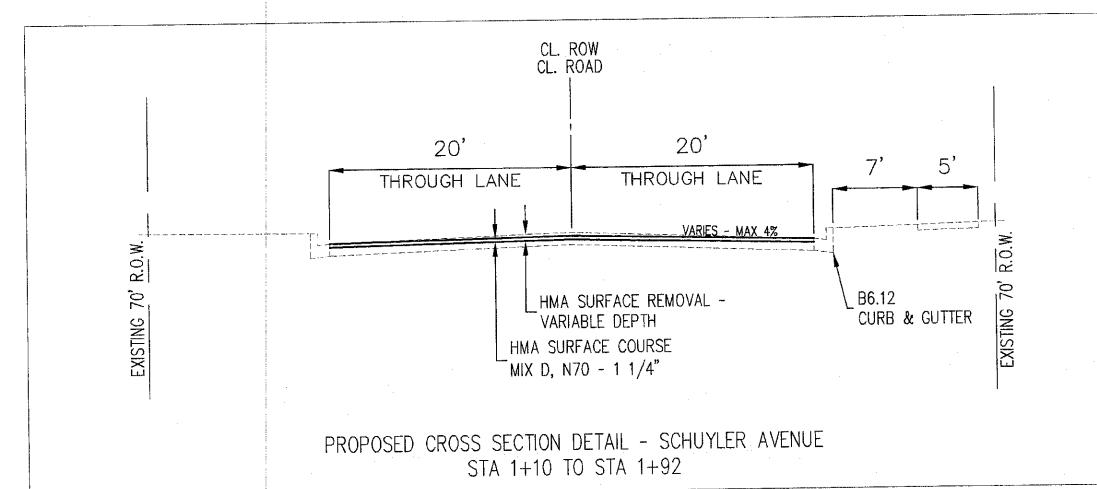
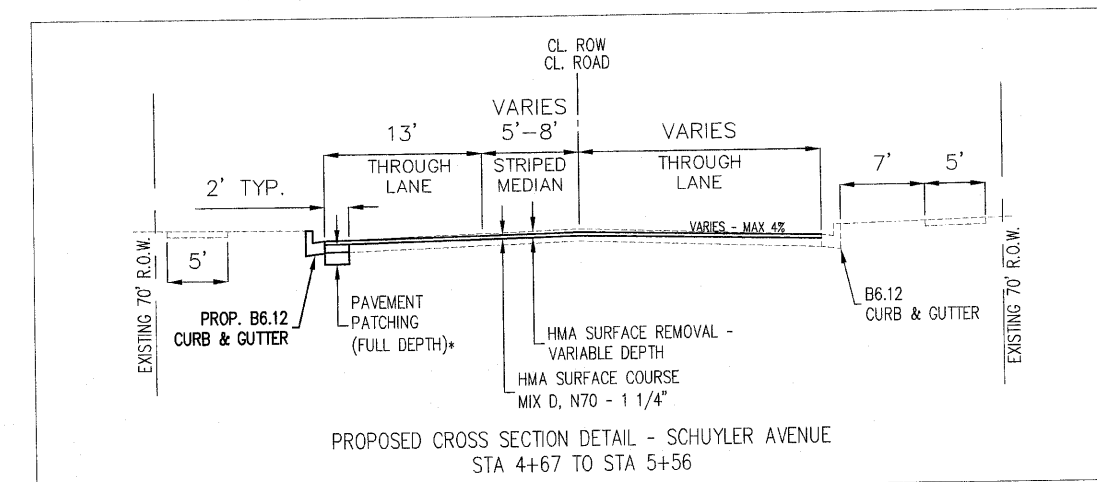
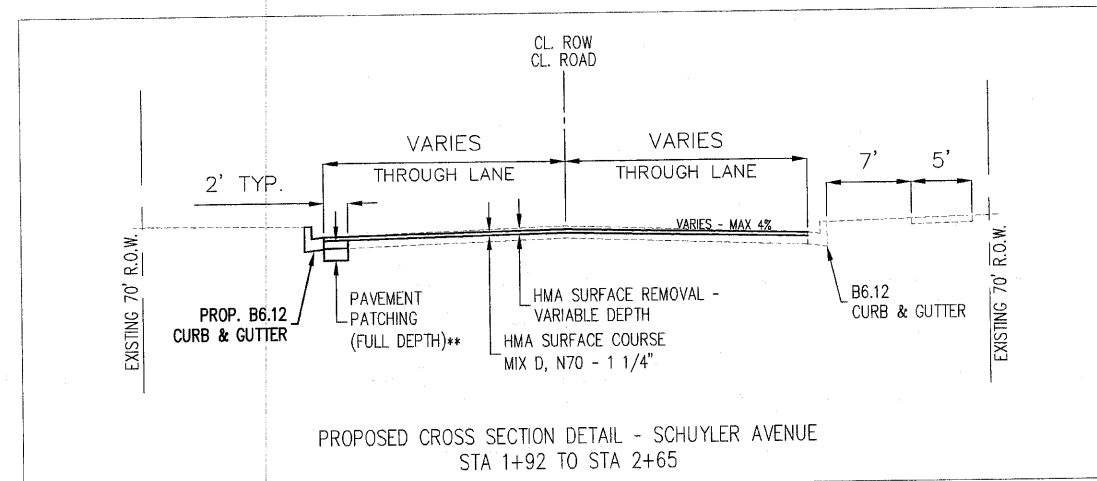
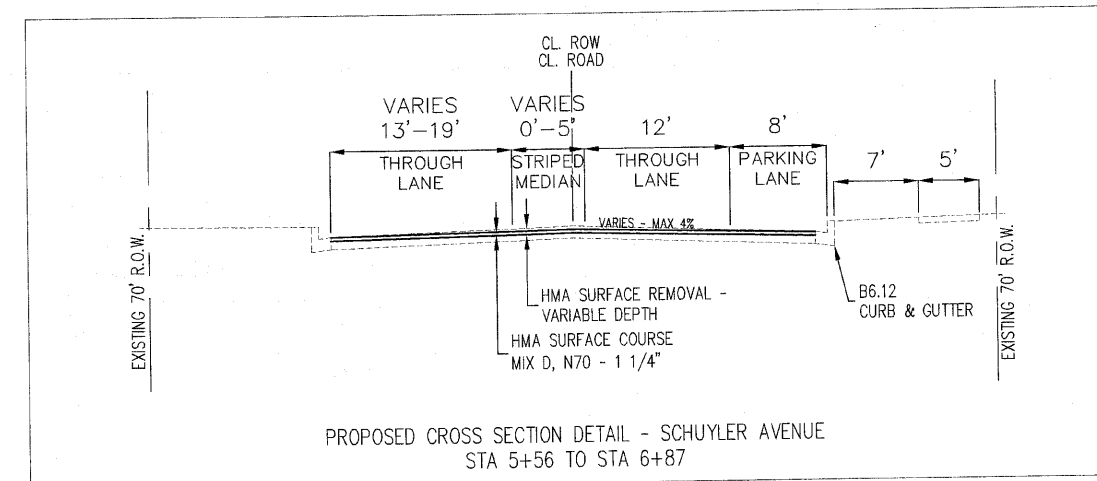
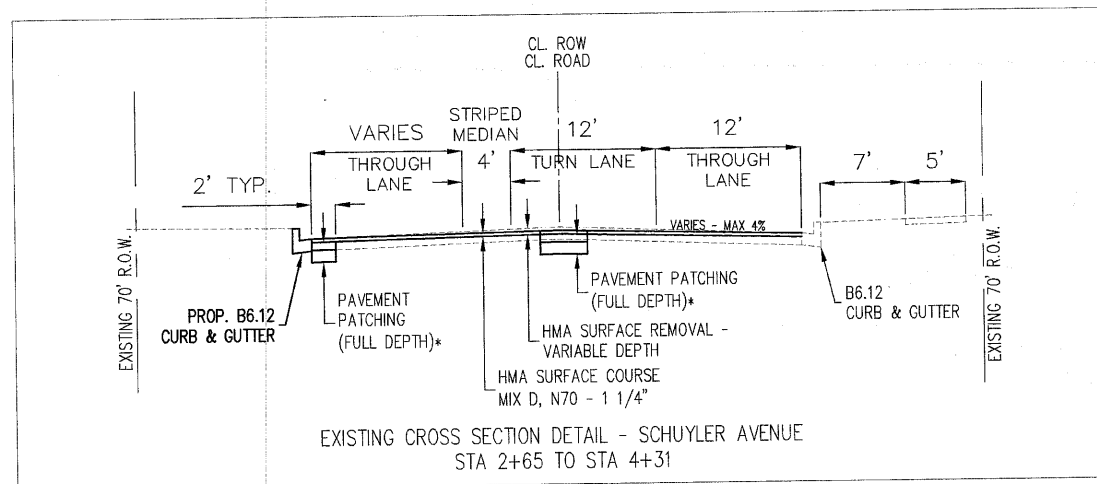
M. GINGERICH, GERAUX ASSOCIATES
 240 N. Industrial Drive
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REVISIONS		
DATE	BY	DESCRIPTION
07-09-2010	JWG	PER IDOT REVIEW

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SAFE ROUTES TO SCHOOLS
 BROADWAY & SCHUYLER INTERSECTION SIGNALS

EXISTING TYPICAL SECTIONS

SCALE: DATE: 12/21/08
 DRAWN BY: JWG
 CHECKED BY:



* SEE SHEET 13 FOR DETAIL OF PAVEMENT PATCHING (FULL DEPTH)

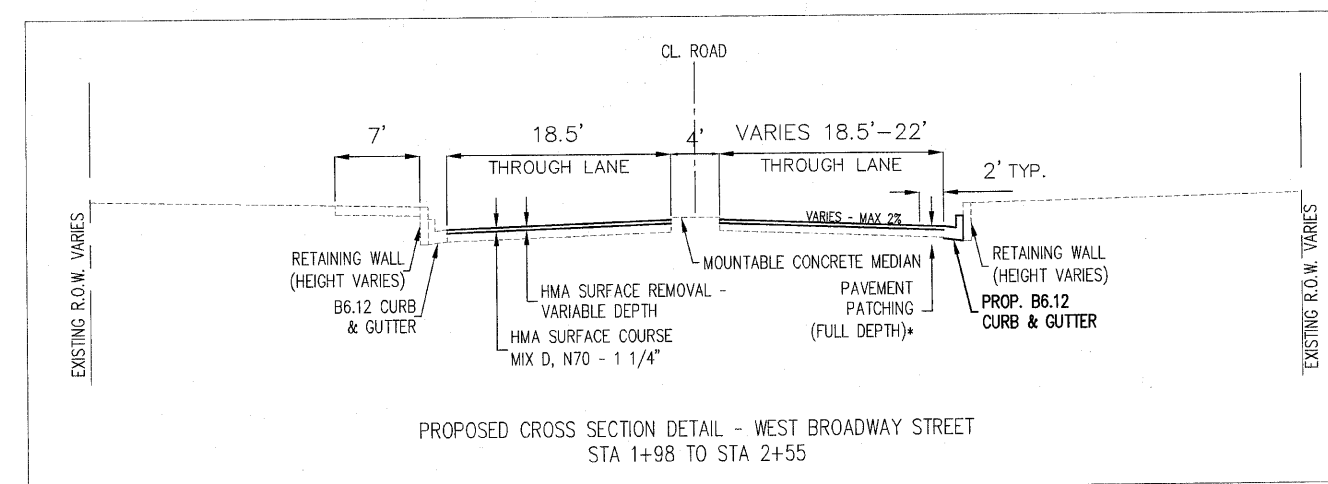
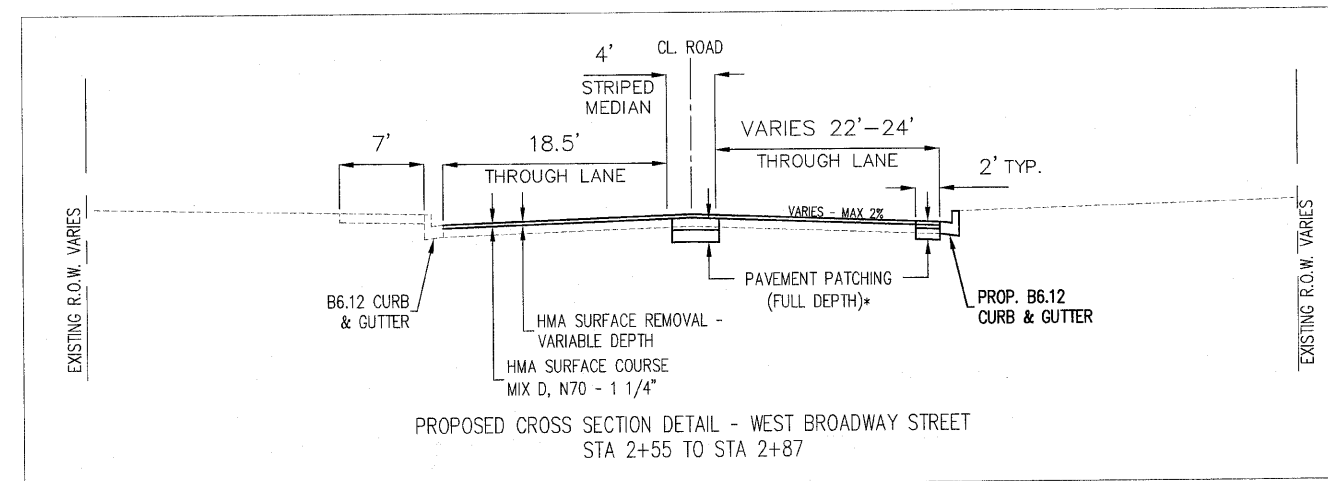
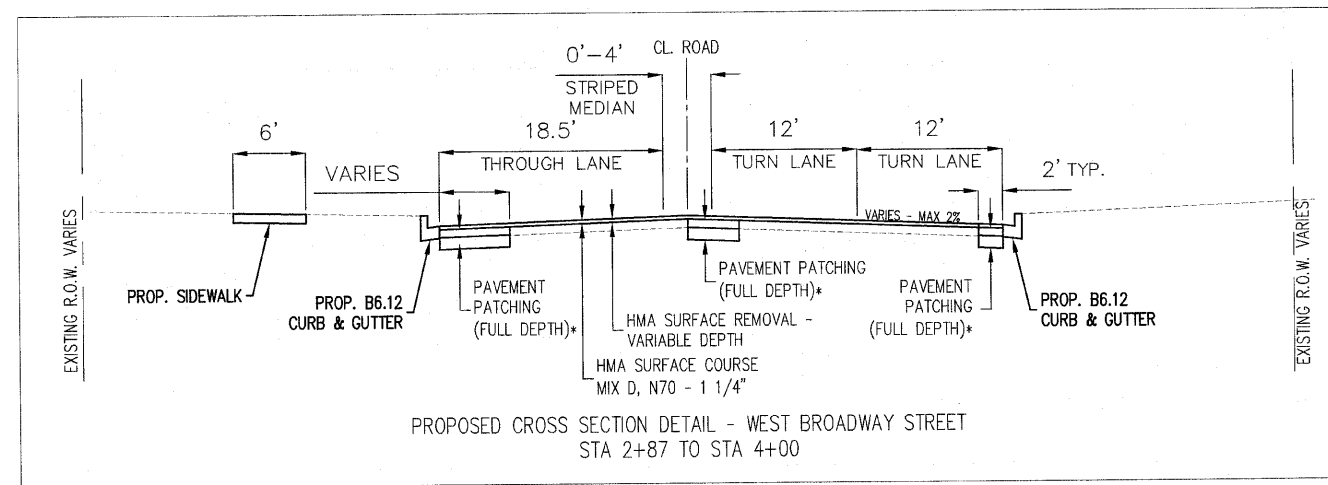
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REVISIONS		
DATE	BY	DESCRIPTION
07-09-2010	JWG	PER IDOT REVIEW

ILLINOIS DEPARTMENT OF TRANSPORTATION
SAFE ROUTES TO SCHOOLS
BROADWAY & SCHUYLER INTERSECTION SIGNALS

PROPOSED TYPICAL SECTIONS - SCHUYLER

SCALE: DATE: 12/21/08
DRAWN BY: JWG
CHECKED BY:



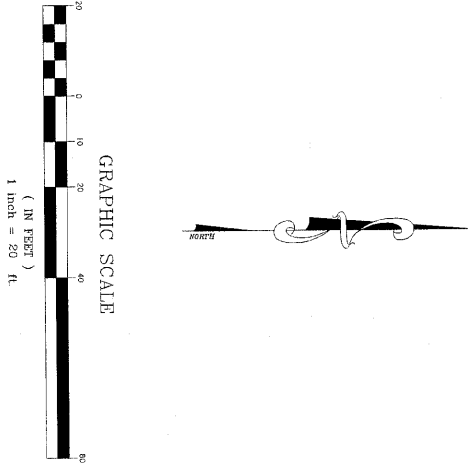
* SEE SHEET 13 FOR DETAIL OF PAVEMENT PATCHING (FULL DEPTH)

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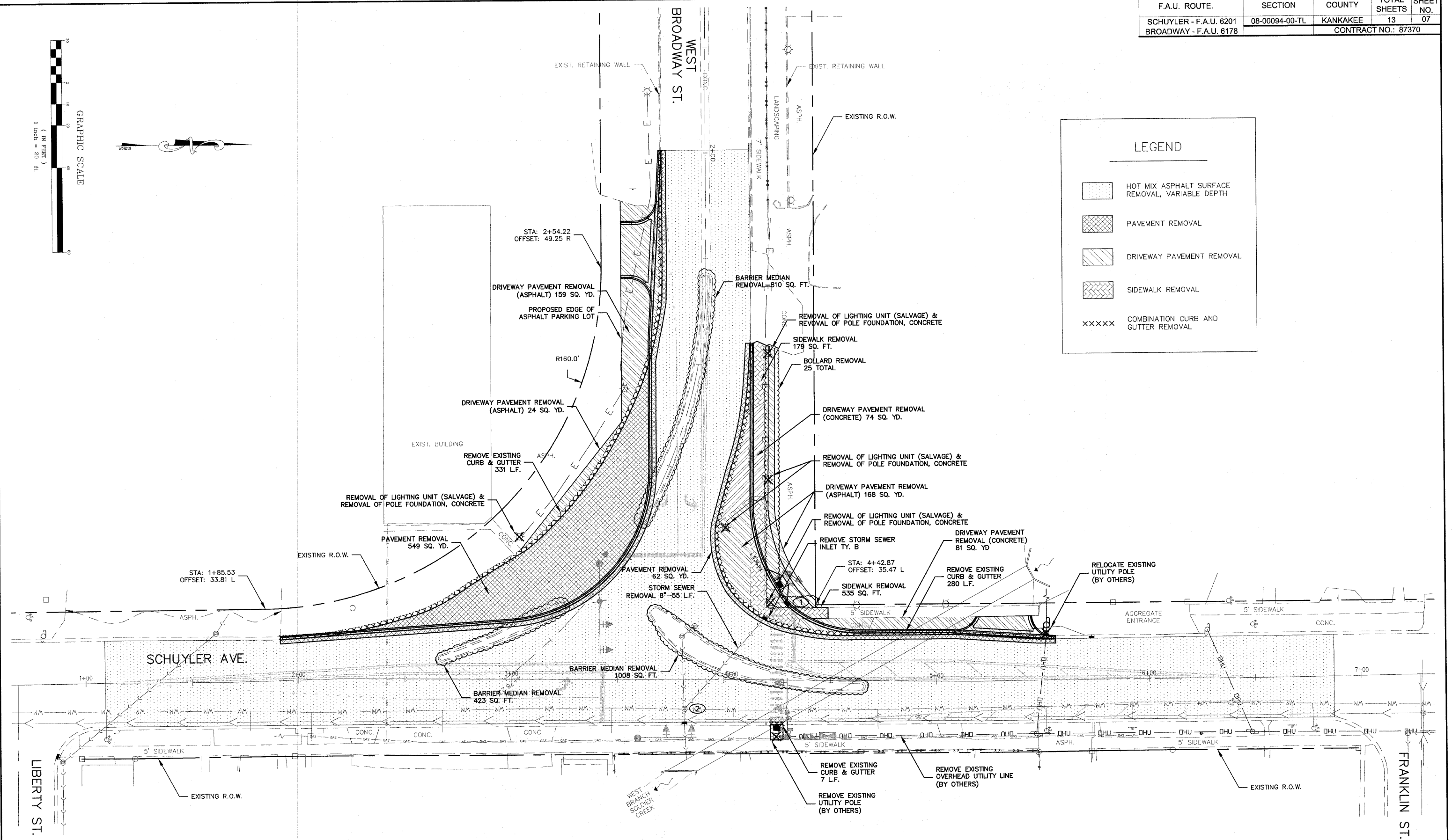
REVISIONS		
DATE	BY	DESCRIPTION
02-09-2010	JWG	PER IDOT REVIEW

ILLINOIS DEPARTMENT OF TRANSPORTATION
SAFE ROUTES TO SCHOOLS
BROADWAY & SCHUYLER INTERSECTION SIGNALS
PROPOSED TYPICAL SECTIONS - W. BROADWAY
SCALE: DATE: 12/21/08
DRAWN BY: JWG
CHECKED BY:

F.A.U. ROUTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHUYLER - F.A.U. 6201	08-00094-00-TL	KANKAKEE	13	07
BROADWAY - F.A.U. 6178				CONTRACT NO.: 87370



LEGEND	
	HOT MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
	PAVEMENT REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL



MGA
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REVISIONS		
DATE	BY	DESCRIPTION
07-08-2010	JWG	PER IDOT REVIEW

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SAFE ROUTES TO SCHOOLS
 BROADWAY & SCHUYLER INTERSECTION SIGNALS

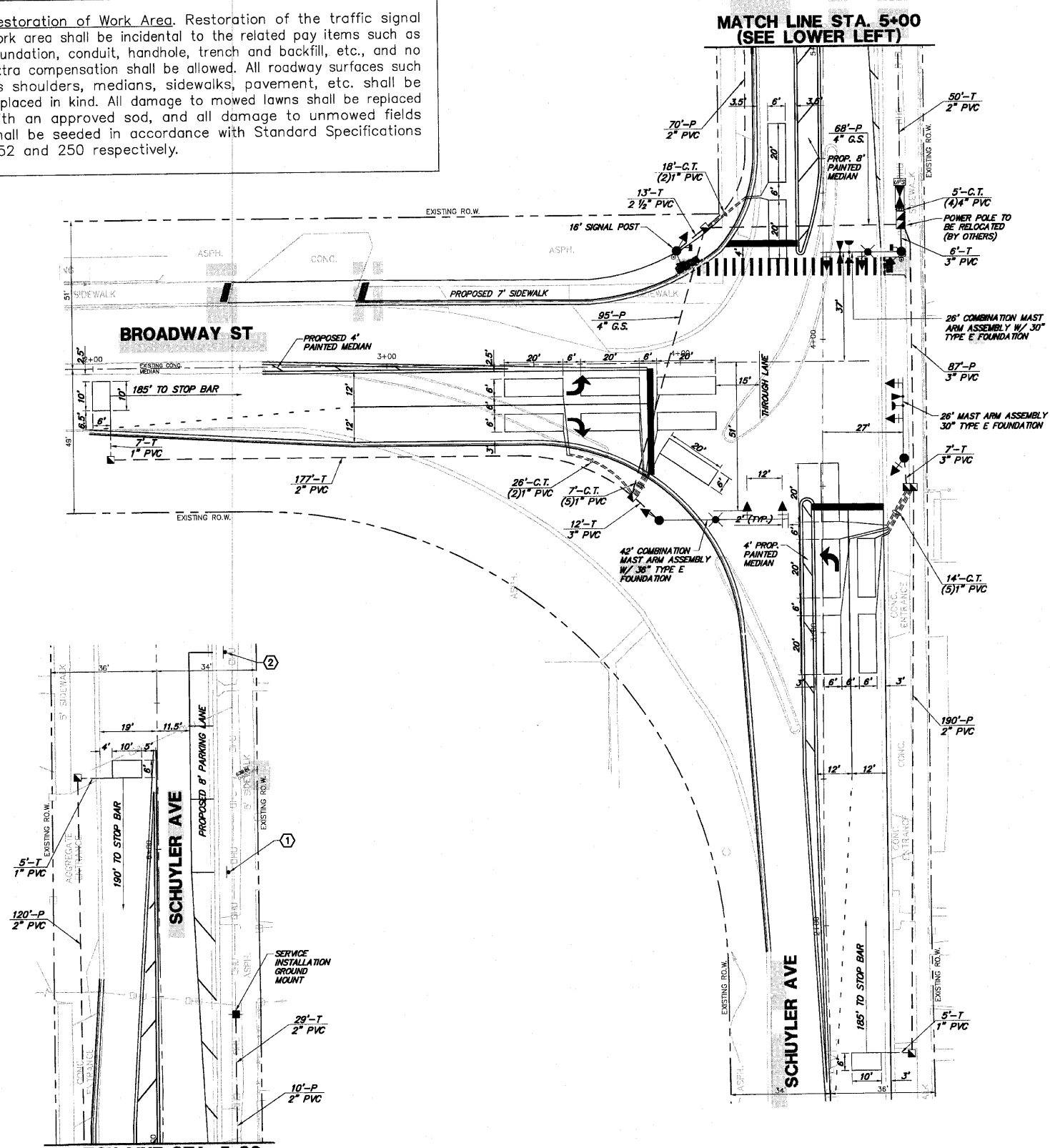
PLAN VIEW - REMOVALS

SCALE: 1" = 20'
 DATE: 12/21/08

DRAWN BY: JWG
 CHECKED BY:

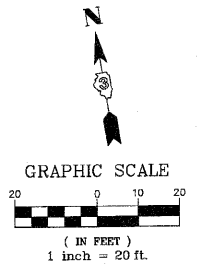
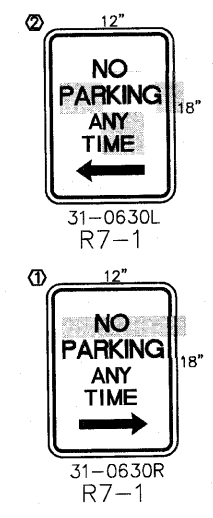
F.A.U. ROUTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHUYLER - F.A.U. 6201 BROADWAY - F.A.U. 6178	08-00094-00-TL	KANKAKEE	13	10
			CONTRACT NO.: 87370	

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CONTACT THE ILLINOIS DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS/DISTRICT 3 SIGNAL SECTION (815-434-8506) TO APPROVE LOCATIONS OF DETECTOR LOOPS, MAST ARM AND POST FOUNDATIONS, HANDHOLES, AND CONTROLLER CABINET FOUNDATIONS.
2. THE CONTRACTOR SHALL PROVIDE TWO PORTABLE CHANGEABLE MESSAGE SIGNS, ONE EACH FOR BOTH NORTHBOUND AND EASTBOUND LANES, APPROXIMATELY 300 TO 500 FEET IN ADVANCE OF THE NEW SIGNALS. THE NORTHBOUND & SOUTHBOUND SIGNS SHOULD BE IN ADVANCE OF W. BROADWAY ST AND THE EASTBOUND SIGN SHOULD BE IN ADVANCE OF SCHUYLER AVE. ONE WEEK PRIOR TO THE SIGNAL TURN-ON, THE MESSAGES ON BOTH SIGNS SHOULD READ "NEW SIGNAL AHEAD" ON THE FIRST MESSAGE AND THEN FLASH TO THE DATE OF THE SIGNAL TURN-ON ON THE SECOND MESSAGE. ONCE THE SIGNAL HAS BEEN TURNED ON, THE MESSAGES ON BOTH SIGNS SHOULD READ "NEW SIGNAL AHEAD" ON THE FIRST MESSAGE AND "BE PREPARED TO STOP" ON THE SECOND MESSAGE, FOR THREE WEEKS AFTER THE SIGNAL TURN-ON.
3. THE ELEVATION OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER CABINET FOUNDATION.
4. NO PARKING SIGNS SHALL BE INSTALLED USING TYPE B METAL POSTS IN LOCATIONS SHOWN.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER WITH UPS		
SERVICE INSTALLATION		
SIGNAL HEAD AND POST		
SIGNAL HEAD AND BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		

MATCH LINE STA. 5+00
(SEE UPPER RIGHT)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" OR EQUIVALENT

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M. GINGERICH, GERAUX ASSOCIATES

REVISIONS		
DATE	BY	DESCRIPTION
07-09-2010	JWG	PER IDOT REVIEW

GHA #4140.805

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION PLAN
BROADWAY STREET & SCHUYLER AVENUE

SCALE: 1"=20'
DATE: 7/15/10

DRAWN BY: ZCW
CHECKED BY: DPB

F.A.U. ROUTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHUYLER - F.A.U. 6201	08-00094-00-TL	KANKAKEE	13	11
BROADWAY - F.A.U. 6178			CONTRACT NO.: 87370	

SCHEDULE OF QUANTITIES
W. BROADWAY STREET AT SCHUYLER AVENUE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
2.	1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
3.	1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
4.	8.00	SQ FT	SIGN PANEL - TYPE 1
5.	45.00	SQ FT	SIGN PANEL - TYPE 2
6.	30	FOOT	METAL POST - TYPE B
7.	231	FOOT	CONDUIT IN TRENCH, 1" DIA., PVC
8.	256	FOOT	CONDUIT IN TRENCH, 2" DIA., PVC
9.	13	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., PVC
10.	29	FOOT	CONDUIT IN TRENCH, 3" DIA., PVC
11.	20	FOOT	CONDUIT IN TRENCH, 4" DIA., PVC
12.	165	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
13.	390	FOOT	CONDUIT PUSHED, 2" DIA., PVC
14.	87	FOOT	CONDUIT PUSHED, 3" DIA., PVC
15.	6	EACH	HANDHOLE, PORTLAND CEMENT CONCRETE
16.	1	EACH	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE
17.	252	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (KLP-TYPE USE) 3-1/C NO. 10
18.	288	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
19.	2	EACH	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT
20.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
21.	138	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
22.	152	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
23.	1,410	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
24.	183	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
25.	1,628	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
26.	98	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
27.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
28.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.
29.	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.
30.	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.
31.	8	FOOT	CONCRETE FOUNDATION, TYPE A
32.	4	FOOT	CONCRETE FOUNDATION, TYPE C (SPECIAL)
33.	30	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER (SPECIAL)
34.	15	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
35.	4	EACH	SIGNAL HEAD, POLYCARBONATE LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
36.	5	EACH	SIGNAL HEAD, POLYCARBONATE LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
37.	1	EACH	SIGNAL HEAD, POLYCARBONATE LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
38.	1	EACH	SIGNAL HEAD, POLYCARBONATE LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
39.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
40.	11	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
41.	9	EACH	INDUCTIVE LOOP DETECTOR
42.	1,002	FOOT	DETECTOR LOOP, TYPE I
43.	2	EACH	LIGHT DETECTOR
44.	1	EACH	LIGHT DETECTOR AMPLIFIER
45.	2	EACH	PEDESTRIAN PUSH-BUTTON
46.	85	CAL DA	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE BOARD
47.	1	EACH	SERVICE INSTALLATION - GROUND MOUNTED
48.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
49.	374	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
50.	250	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

ELECTRICAL LOAD CHART

SCHUYLER AVE			
SIGNAL SECTION	NUMBER	WATTAGE EACH	BURN TIME %
RED	7	17	20
YELLOW	7	25	5
GREEN	7	15	75
YELLOW ARROW	2	12	5
GREEN ARROW	2	12	5
PEDESTRIAN	0	25	100

BROADWAY ST			
SIGNAL SECTION	NUMBER	WATTAGE EACH	BURN TIME %
RED	4	12	20
YELLOW	0	25	5
GREEN	0	15	75
YELLOW ARROW	4	12	5
GREEN ARROW	4	12	5
PEDESTRIAN	2	25	100

TRAFFIC SIGNAL CABINET			
ITEM	NUMBER	WATTAGE EACH	BURN TIME %
CONTROLLER	1	100	100
LOOP DETECTORS	9	4	100

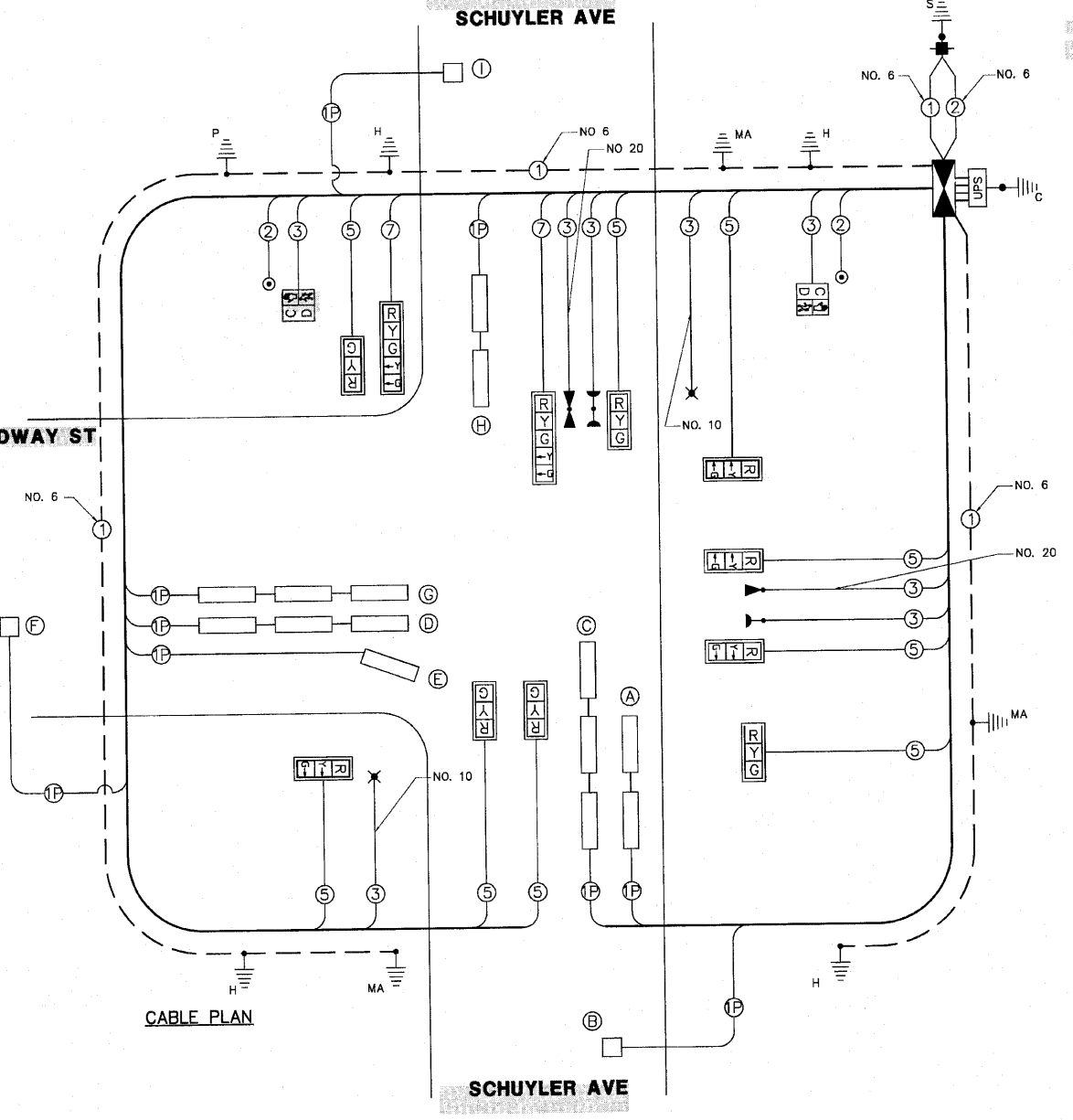
TRAFFIC SIGNAL CABINET			
ITEM	NUMBER	WATTAGE EACH	BURN TIME %
LUMINAIRE	0	250	342 HRS/MO

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" OR EQUIVALENT

DETECTOR LOOP INDUCTANCE CHART

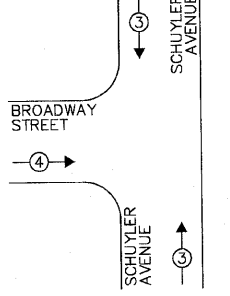
LOOP SYSTEM	LABEL	NO. OF TURNS	INDUCTANCE (MH)	FREQUENCY (HERTZ)	J PIN STATUS
A	02 NB STBR	4	544	26,167	OFF
B	02 NB FAR	6	314	34,443	ON
C	05 NB LT	4	814	21,392	ON
D	04 EB STBR	4	784	21,797	ON
E	04 EB STBR	4	264	37,563	ON
F	04 EB FAR	6	286	36,089	ON
G	07 EB LT	4	784	21,797	ON
H	06 SB STBR	4	545	26,144	OFF
I	06 SB FAR	6	320	34,118	ON

J PIN STATUS:
"ON" MEANS STANDARD DETECTOR SETUP.
"OFF" MEAN THE J WIRE HAS BEEN DISCONNECTED, BUT INTERACT AT THE HARNESS PANEL WITH THE NECESSARY SPARE CONNECTOR ATTACHED, MARKED AND INSULATED.



CABLE PLAN

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



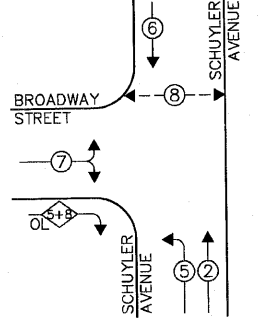
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

LUMINAIRE ENERGY CHARGES SHALL BE THE RESPONSIBILITY OF THE VILLAGE OF BRADLEY

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
⊗	⊗	8" (200mm) TRAFFIC SIGNAL SECTION
⊗	⊗	12" (300mm) TRAFFIC SIGNAL SECTION
⊗	⊗	12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
⊗	⊗	CONTROLLER CABINET
⊗	⊗	SERVICE INSTALLATION
⊗	⊗	TELEPHONE
⊗	⊗	VEHICLE DETECTOR, INDUCTION LOOP
⊗	⊗	MAGNETIC DETECTOR
⊗	⊗	EMERGENCY VEHICLE LIGHT DETECTOR
⊗	⊗	CONFIRMATION BEACON
⊗	⊗	PUSHBUTTON DETECTOR
⊗	⊗	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
⊗	⊗	GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
⊗	⊗	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
⊗	⊗	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
⊗	⊗	RAILROAD CONTROL CABINET
⊗	⊗	ILLUMINATED SIGN "NO LEFT TURN"
⊗	⊗	ILLUMINATED SIGN "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
UPS	UPS	UNINTERRUPTIBLE POWER SUPPLY
X	X	LUMINAIRE

PROPOSED CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND:

← *	SINGLE ENTRY PHASE
← *	DUAL ENTRY PHASE
← *	PEDESTRIAN PHASE
*	NUMBER REFERS TO ASSOCIATED PHASE
← *	OVERLAP

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REVISIONS

DATE	BY	DESCRIPTION
07-08-2010	JWG	PER IDOT REVIEW

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES, CABLE PLAN,
& PHASE DESIGNATION DIAGRAM
BROADWAY STREET & SCHUYLER AVENUE

SCALE: N.A. DRAWN BY: ZCW
DATE: 7/15/10 CHECKED BY: DPB

GENERAL NOTES:

1. THE CONTRACTOR SHALL CONTACT THE VILLAGE OF BRADLEY (815/932-2125) A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
2. THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815/434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800/892-0123.
4. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.
5. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.
6. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
7. A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED WITH THE COST OF CONDUIT PAY ITEM.
8. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
9. ALL CONDUIT IN TRENCH SHALL BE PVC. ALL CONDUIT PUSHED MAY BE PVC OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.

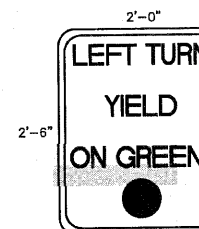
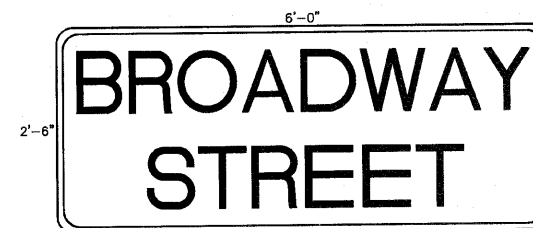
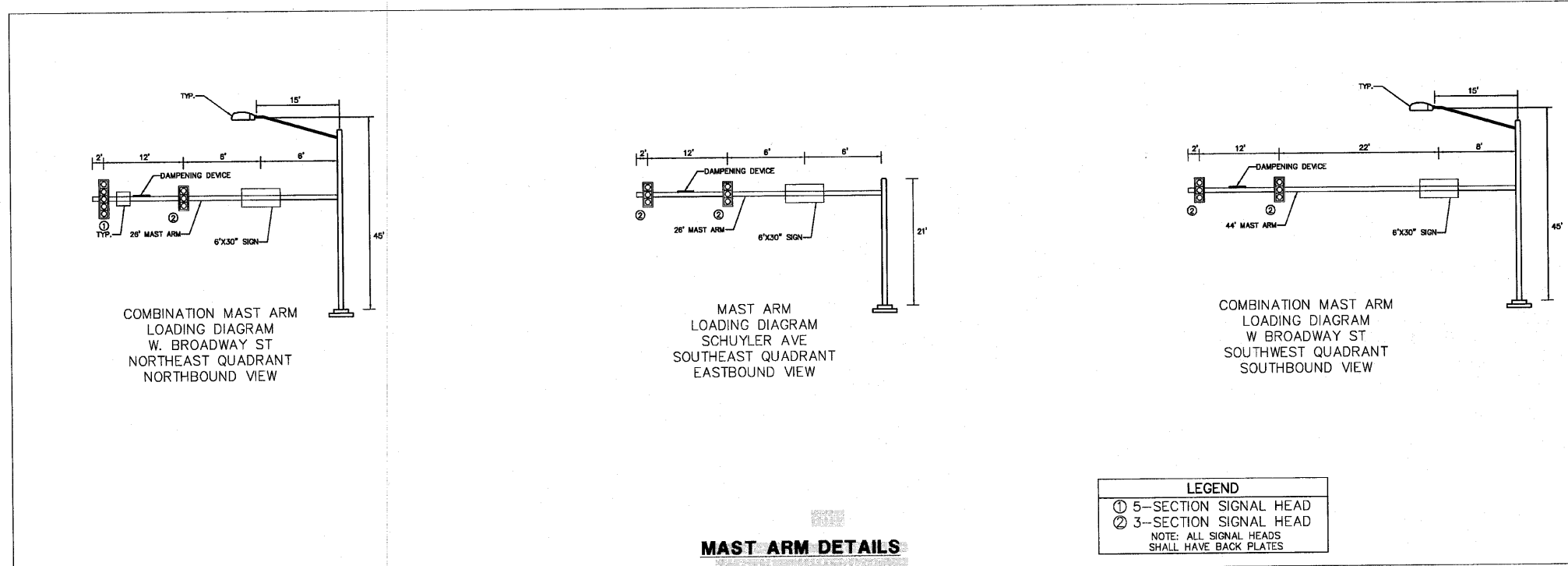
10. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
11. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
12. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
13. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED; CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
14. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.
15. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
16. THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT. THIS WORK SHALL BE INCLUDED IN THE CONTROLLER CABINET PAY ITEM.
17. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.

19. THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION.
20. ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.
21. ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 806 OF THE STANDARD SPECIFICATIONS.
22. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTELLABLE CONDITION.
23. THE FIBER OPTIC CABLE SHALL BE LABELED WITH DIRECTION AND ASSIGNMENT NUMBER.
24. THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.
25. THE MAST ARMS SHALL BE LOCATED A MINIMUM 6' FROM THE FACE OF CURB OR A MINIMUM 18' FROM THE EDGE OF PAVEMENT TO THE FACE OF FOUNDATION WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN CURB AREA, GET MORE THAN 6' IF POSSIBLE IF THE SIGNAL HEAD STILL LINES UP IN CENTER OF LANE.
26. IF THERE IS A PAY ITEM, CHANGEABLE MESSAGE SIGNS ARE REQUIRED FOR BOTH DIRECTIONS. ONE WEEK PRIOR TO SIGNAL TURN-ON, THE MESSAGE SHOULD READ 'NEW SIGNAL AHEAD/TURN ON DATE.' FOR THREE WEEKS AFTER, THE MESSAGE SHOULD READ 'NEW SIGNAL AHEAD/BE PREPARED TO STOP'.

F.A.U. ROUTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHUYLER - F.A.U. 6201	08-00094-00-TL	KANKAKEE	13	12
BROADWAY - F.A.U. 6178			CONTRACT NO.: 87370	

USE THE FOLLOWING IF THERE ARE TEMPORARY TRAFFIC SIGNALS:

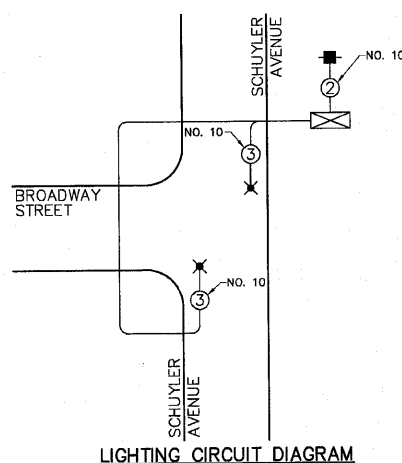
27. ALL SIGNAL HEADS ON AN INDIVIDUAL SPAN WIRE SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL WITH EACH OTHER.
28. THE CONTRACTOR SHALL PROVIDE 3 FEET OF SLACK CABLE IN THE CONTROLLER AND ON THE WOOD POLES. THE SLACK IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE STANDARD SPECIFICATIONS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR ELECTRIC CABLE OF THE TYPE SPECIFIED.
29. TEMPORARY WOOD POLES SHALL BE LOCATED A MINIMUM OF 6' FROM THE FACE OF CURB OR A MINIMUM OF 18' FROM THE EDGE OF PAVEMENT WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
30. ALL TEMPORARY WOOD POLES SHALL BE INSTALLED SO THAT A MINIMUM OF 30' POLE IS ABOVE THE EXISTING PAVEMENT ELEVATION ADJACENT TO THE POLE. A SUFFICIENT LENGTH OF POLE SHALL BE BURIED AND BACK GUYED TO ALLOW THE INSTALLATION TO WITHSTAND A 70 MPH SUSTAINED WIND LOADING.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE WOOD POLE LOCATIONS BEFORE ORDERING TO DETERMINE IF LONGER POLES ARE REQUIRED.



NOTE: THIS NOTE APPLIES TO ALL MAST ARM AND SIGNAL POST FOUNDATIONS. THE FOUNDATION DEPTH TABLE IS ONLY THE SUGGESTED FOUNDATION DEPTHS. IN ORDER TO CALCULATE THE REQUIRED FOUNDATION DEPTH, SOIL BORINGS AND A FULL GEOTECHNICAL REPORT SHALL BE CONDUCTED.

NOTE: THIS NOTE APPLIES TO ALL MAST ARM LOADING DIAGRAMS. DAMPENING DEVICES SHALL CONSIST OF 24" X 36" TYPE 1 UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TO OF MAST ARM AND STREET LIGHT ARM WITH 36" LENGTH PERPENDICULAR TO THE MAST ARM. COST OF DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.

FOUNDATION DEPTH TABLE		
TYPE	LOCATION	FOUNDATION
26' COMBINATION MAST ARM	W. BROADWAY AT SCHUYLER N.E. QUADRANT	15'
26' MAST ARM	W. BROADWAY AT SCHUYLER S.E. QUADRANT	15'
44' COMBINATION MAST ARM	W. BROADWAY AT SCHUYLER S.W. QUADRANT	15'
16' TRAFFIC SIGNAL POST	W. BROADWAY AT SCHUYLER N.W. QUADRANT	4'



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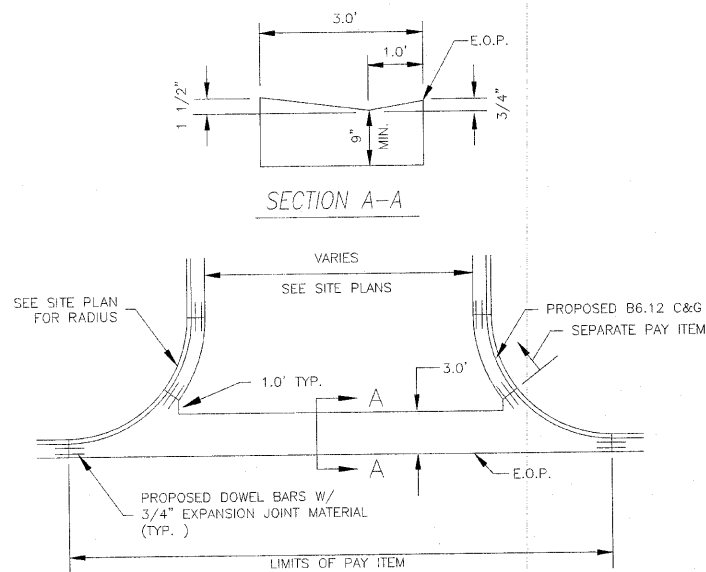
REVISIONS		
DATE	BY	DESCRIPTION
07-09-2009	JWG	PER IDOT REVIEW

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DESIGN DETAILS
BROADWAY STREET & SCHUYLER AVENUE

SCALE: N.A.
DATE: 7/15/10
DRAWN BY: ZCW
CHECKED BY: DPG

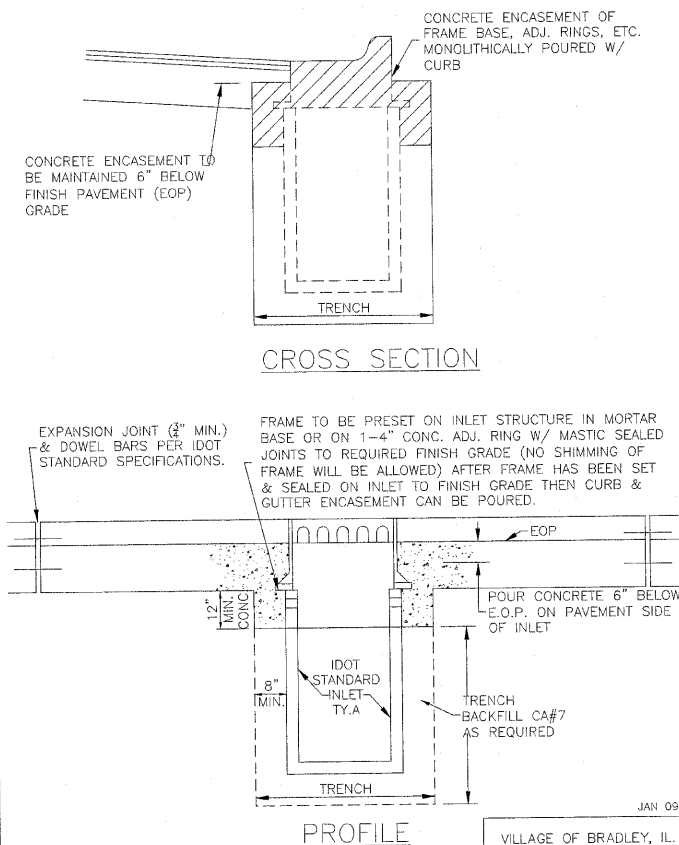
GHA #4140.805

F.A.U. ROUTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHUYLER - F.A.U. 6201	08-00094-00-TL	KANKAKEE	13	13
BROADWAY - F.A.U. 6178	CONTRACT NO.: 87370			



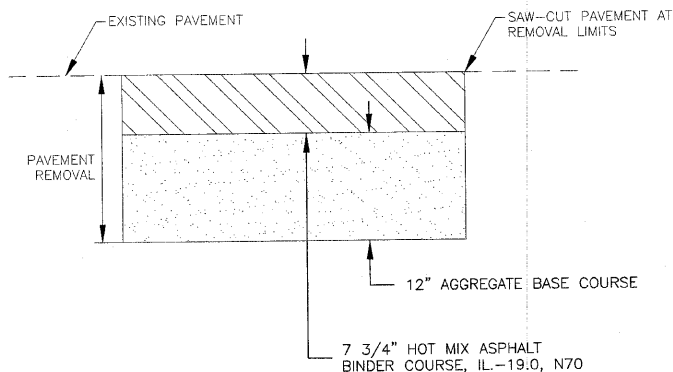
COMBINATION CURB AND GUTTER, (MODIFIED) DETAIL

NOTE: CURB TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION - SECTION 606, HIGHWAY STANDARD 606001, AND TO THE ABOVE DIMENSIONS. CURB SHALL BE INSTALLED ON A MINIMUM 4 INCH AGGREGATE BASE - CA#6 (COMPACTED) AND CURB CONSTRUCTED WITH IDOT CLASS SI PORTLAND CEMENT CONCRETE.



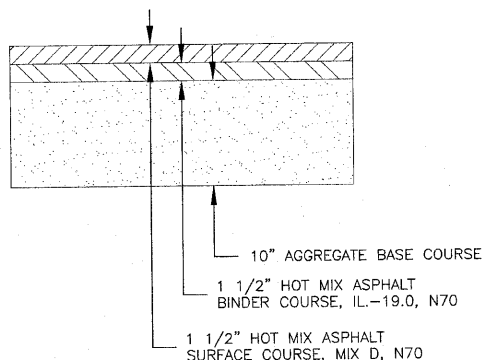
NOTE: INLET & CURB SUBJECT TO IDOT'S STANDARD SPECIFICATIONS CURRENT EDITION

VILLAGE OF BRADLEY, IL. CONSTRUCTION STANDARDS FOR CURB INLET, TY. "A" WITH CONCRETE ENCASUREMENT STANDARD# STRM-2020



NOTE: PAVEMENT PATCHING (FULL DEPTH) PAY ITEM DOES NOT INCLUDE FINAL 1 1/4\"/>

PAVEMENT PATCHING (FULL DEPTH) DETAIL

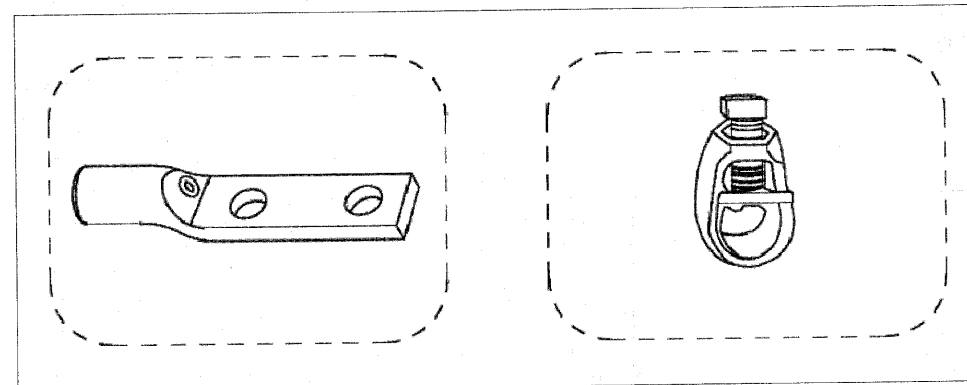


HOT-MIX ASPHALT DRIVEWAY PAVEMENT DETAIL

GROUNDING SYSTEM

NOTES:

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 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 THREE AT (815) 434-8505.
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. 6.8' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) ON SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



REVISIONS		
DATE	BY	DESCRIPTION
07-08-2010	JWG	PER IDOT REVIEW

ILLINOIS DEPARTMENT OF TRANSPORTATION
SAFE ROUTES TO SCHOOLS
BROADWAY & SCHUYLER INTERSECTION SIGNALS
DETAILS
SCALE: DATE: 12/21/08
DRAWN BY: JWG
CHECKED BY: