

04-27-2018 LETTING ITEM 134

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
FAU 2965 (CUSTER AVENUE)**
FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE)
RESURFACING, CURB, GUTTER
SECTION 17-00131-00-RS
PROJECT PKU1(100)
VILLAGE OF BROOKFIELD
COOK COUNTY
JOB C-91-133-18

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2965	17-00131-00-RS	COOK	26	1
F.H.W.A. REG.		ILLINOIS PROJECT		

CONTRACT NO. 61E51

FOR INDEX OF SHEETS, SEE SHEET 2

PROJECT LOCATED IN BROOKFIELD AND LYONS

TRAFFIC DATA

ADT:
CUSTER AVENUE 2400 (2017)

POSTED SPEED

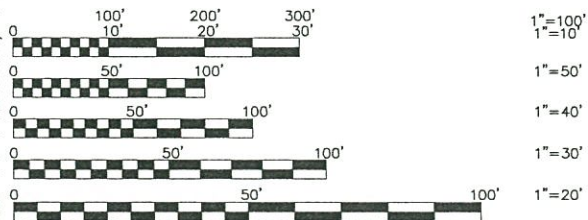
25 MPH (EXISTING)
25 MPH (PROPOSED)

DESIGN DESIGNATION

MINOR COLLECTOR

DESIGN SPEED

25 MPH (EXISTING)
25 MPH (PROPOSED)



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
CALL 811



Know what's below.
Call before you dig.

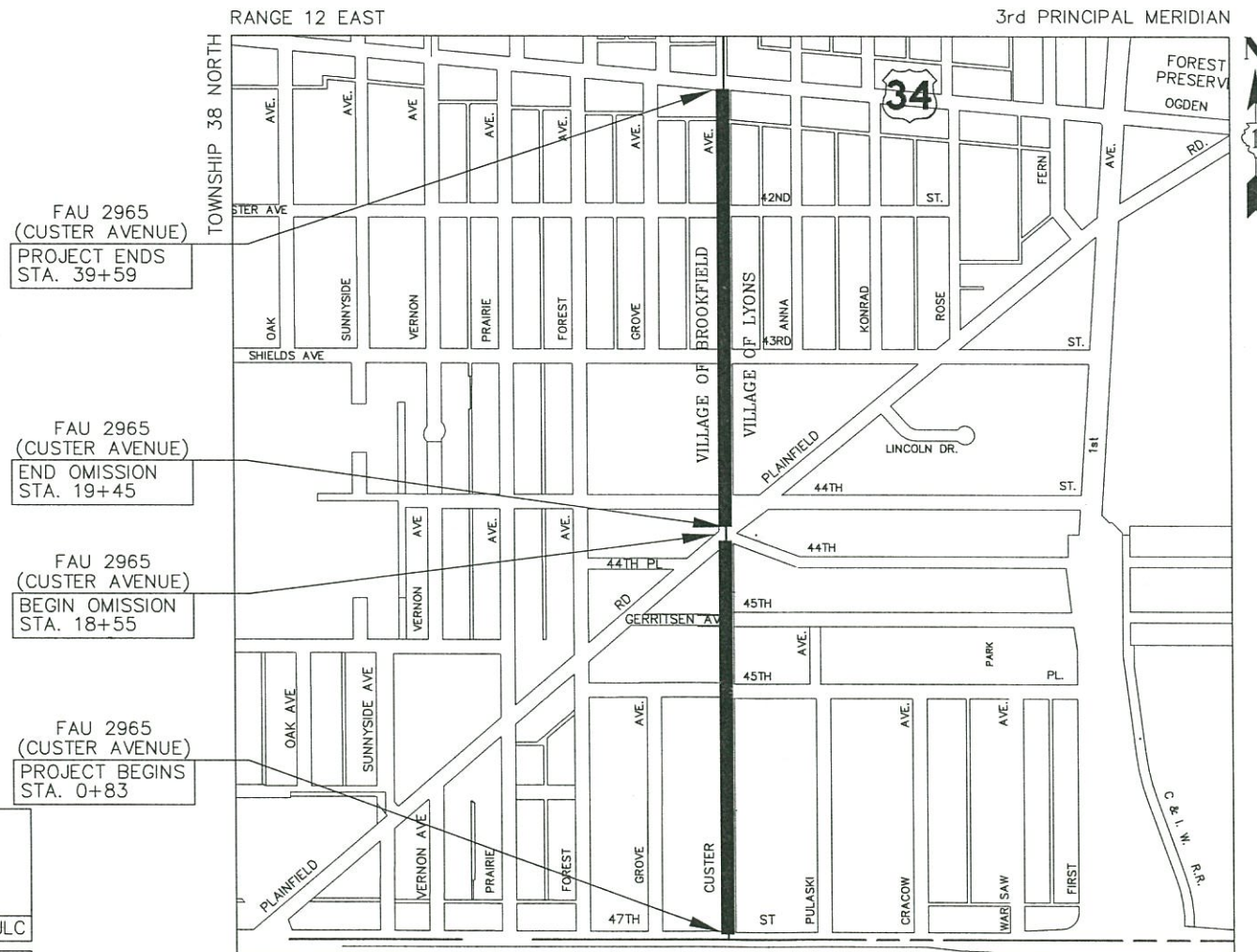


545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132

FNA PROJECT NO. 16494 DRAWN/DESIGNED JFP/AMS CHECKED/APPROVED JLC/JLC

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	JLC	9/29/17	CUSTER AVENUE WIDTH STA. 17+00
2	JLC	10/19/17	SEPARATED DRAINAGE AND PAVING
3	JLC	11/29/17	PER I.D.O.T. REVIEW
4	JLC	12/08/17	CHANGED FROM VILLAGE OF LYONS TO VILLAGE OF BROOKFIELD PER I.D.O.T.
5	JLC	2/06/18	PER I.D.O.T. REVIEW

CONTRACT NO. 61E51



LYONS TOWNSHIP PROJECT LOCATION MAP N.T.S.
— DENOTES LOCATION OF IMPROVEMENT

GROSS LENGTH OF PROJECT = 3,876 FEET (0.73 MILES)
NET LENGTH OF PROJECT = 3,786 FEET (0.72 MILES)



LOCATION OF SECTION INDICATED THIS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED *Dec 11* 2017

VILLAGE OF BROOKFIELD
KIT P. KETCHMARK, VILLAGE PRESIDENT

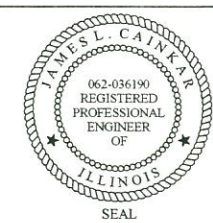
PASSED *FEBRUARY 14* 2018

RELEASING FOR BID
BASED ON LIMITED
REVIEW *FEBRUARY 16* 2018

JLC

JAMES L. CAINKAR, P.E.
IL P.E. NO. 062-036190
EXPIRES 11-30-2019

1-29-2018
DATE



PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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- 2.) INDEX OF SHEETS, LIST OF DISTRICT 1 STANDARD DETAILS, LIST OF ILLINOIS DOT HIGHWAY STANDARDS, GENERAL CONSTRUCTION NOTES, HALF TRAP DETAIL, BENCHMARKS, HOT-MIX ASPHALT MIXTURE REQUIREMENTS
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- 17.) PLAN: CUSTER AVENUE AND IL ROUTE 34 (OGDEN AVENUE) ADA RAMP DETAILS
- 18.-19.) PLAN: FAU 2965 (CUSTER AVENUE) - (PAVEMENT MARKING)
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LIST OF DISTRICT 1 STANDARD DETAILS

- 20.) BD-08 DETAILS FOR FRAMES AND LIDS ADJUSTMENTS WITH MILLING
- 21.) BD-22 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
- 22.) BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- 23.) BD-32 BUTT JOINT AND HMA TAPER DETAILS
- 24.) TC-10 TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS
- 25.) TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- 26.) TC-22 ARTERIAL ROAD INFORMATION SIGN

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-10 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424006-03 DIAGONAL CURB RAMPS FOR SIDEWALKS
- 424021-04 DEPRESSED CORNER FOR SIDEWALKS
- 424026-02 ENTRANCE/ALLEY PEDESTRAIN CROSSINGS
- 442201-03 CLASS C AND D PATCHES
- 602001-02 CATCH BASIN-TYPE A
- 602011-02 CATCH BASIN-TYPE C
- 602301-04 INLET-TYPE A
- 602401-04 MANHOLE-TYPE A
- 602501-03 VALVE VAULT-TYPE A
- 604001-04 FRAMES & LIDS-TYPE 1
- 606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 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
- 701501-06 URBAN LANE CLOSURE, 2 L, 2 W UNDIVIDED
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
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- 701901-07 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES

PAVING AND STORM SEWERS

SPECIFICATIONS

THE APRIL 1, 2016 EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY GOVERN OTHER WORK ON THIS PROJECT AS INDICATED BY REFERENCE.

CARE IN EXCAVATION

THE CONTRACTOR SHALL EXERCISE CARE DURING EARTH AND/OR TRENCHING OPERATIONS TO AVOID DAMAGE TO LOCAL UTILITY SERVICES, WATER VALVES, MANHOLES, CATCH BASINS, INLETS, BUFFALO BOXES, AND OTHER STRUCTURES. ALL DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 105.07 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

NOTIFICATION OF PUBLIC UTILITIES

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OFFICIALS OF THE PUBLIC WORKS DEPARTMENT OF THE LOCAL MUNICIPALITIES AT (708)485-2540 BROOKFIELD, (708)466-2646, LYONS, J.U.L.I.E. AT 1-800-892-0123 OR 811, AND OTHER PUBLIC AND PRIVATE UTILITIES TO MAKE ARRANGEMENTS TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AND TO PROVIDE ADEQUATE PROTECTION AND INSPECTION. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

TRAFFIC CONTROL DEVICES

BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

PROTECTION OF SIGNS AND PROPERTY

ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE ENGINEER. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED IN ACCORDANCE WITH ARTICLES 107.20 AND 107.21 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

SUPERINTENDENCE

THE CONTRACTOR SHALL HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVING CONTROL OF ALL THE WORK AS THE AGENT OF THE GENERAL CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

CONSTRUCTION LAYOUT STAKES

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WOODEN STAKES OR OTHER LAYOUT MATERIALS FOR LAYOUT OF THE LINES AND GRADES OF THE PROJECT. FAILURE TO PROVIDE STAKES IN A TIMELY MANNER WILL RESULT IN A DELAY IN TAKEOUT WHICH WILL BE APPLICABLE AGAINST THE TIME LIMIT FOR COMPLETION SHOWN IN THE PROJECT SPECIFICATIONS. LINE AND GRADE WILL BE ESTABLISHED BY THE ENGINEER AT REGULAR INTERVALS ON PERMANENTLY PAVED SURFACES, SIDEWALKS OR STAKES AT THE ENGINEER'S OPTION, ALL WITHIN THE PUBLIC RIGHT-OF-WAY AND SHALL BE TRANSFERRED BY THE CONTRACTOR TO THE ACTUAL LINE OF CONSTRUCTION.

PROJECT SAFETY

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE CONTRACTOR SHALL COMPLY WITH AND OBSERVE THE RULES AND REGULATIONS OF O.S.H.A. AND APPROPRIATE AUTHORITIES REGARDING SAFETY PROVISIONS. THE CONTRACTOR, ENGINEER, AND OWNER SHALL EACH BE RESPONSIBLE FOR THEIR OWN RESPECTIVE AGENTS AND EMPLOYEES.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS, OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE DOCUMENTS AND SPECIFICATIONS.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

MISCELLANEOUS

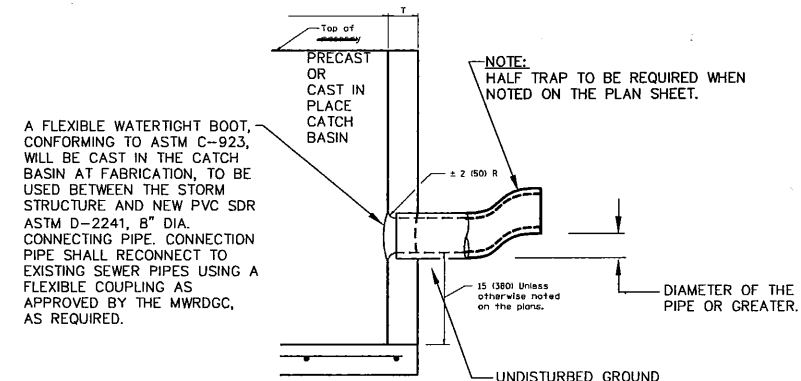
ALL PATCHING ON THE HOT-MIX ASPHALT PORTIONS OF THIS PROJECT WILL BE MARKED OUT AND CONSTRUCTED AFTER MILLING. A PROOF ROLL WILL BE REQUIRED PRIOR TO PATCHING

BEFORE BEGINNING WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) SO THESE LOCATIONS CAN BE RE-ESTABLISHED FOR FINAL STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

BENCHMARKS

NOTE:
ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- SITE BENCHMARK
S FB ON FH ON NE CORNER OF CUSTER AVE. AND 47TH ST. - ELEV=621.10
- SITE BENCHMARK
W FB ON FH AT 4627 CUSTER AVE. - ELEV=621.10
- SITE BENCHMARK
N FB ON FH AT 4545 CUSTER AVE. - ELEV=621.74
- SITE BENCHMARK
SW FB ON FH ON SE CORNER OF CUSTER AVE. AND 45TH PL. - ELEV=624.07
- SITE BENCHMARK
ENE FB ON FH ON SW CORNER OF CUSTER AVE. AND GERRITSEN AVE. - ELEV=629.52
- SITE BENCHMARK
NE FB ON FH ON NE CORNER OF CUSTER AVE. AND 44TH ST. - ELEV=628.94
- SITE BENCHMARK
SE FB ON FH AT 4331 CUSTER AVE. - ELEV=628.76
- SITE BENCHMARK
SE FB ON FH AT 8745 43RD ST. - ELEV=628.81
- SITE BENCHMARK
ENE FB ON FH ON SW CORNER OF CUSTER AVE. AND SHIELDS AVE. - ELEV=627.01
- SITE BENCHMARK
SE FB ON FH AT 4239 CUSTER AVE. - ELEV=625.82
- SITE BENCHMARK
SE FB ON FH AT 4217 CUSTER AVE. - ELEV=624.97
- SITE BENCHMARK
SE FB ON FH ON SE CORNER OF CUSTER AVE. AND 42ND ST. - ELEV=623.11
- SITE BENCHMARK
SE FB ON FH AT 4129 CUSTER AVE. - ELEV=621.79.
- SITE BENCHMARK
NW FB ON FH ON SW CORNER OF CUSTER AVE. AND OGDEN AVE. - ELEV=621.04



HALF TRAP DETAIL

- 602001-02 CATCH BASIN-TYPE A
- 602011-02 CATCH BASIN-TYPE C

NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES
ROADWAY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL-9.5mm), 1-3/4"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"	4% @ 50 GYR
PATCHING	
CLASS D PATCHES, TYPE II-IV, 10" (HMA BINDER COURSE, IL-19 mm), 10" (IN 2 LIFTS)	4% @ 70 GYR
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL-9.5mm), 3" (IN TWO LIFTS)	4% @ 50 GYR

HOT-MIX SURFACE REMOVAL TO BE PERFORMED BEFORE PATCHING OPERATIONS

THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

"THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22"

UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-00928

FILE NAME VILLAGE OF BROOKFIELD FAU 2965 (CUSTER AVENUE) FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE) #16494 WINDENING AND RESURFACING	USER NAME =	DESIGNED - AMS	REVISED - JLC 9/29/17
		DRAWN - JFP	REVISED - JLC 10/19/17
	PLOT SCALE =	CHECKED - JLC	REVISED - JLC 11/29/17
	PLOT DATE =	DATE - 7/17	REVISED - JLC 12/08/17
			REVISED - JLC 2/06/18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, LIST OF DISTRICT 1 STANDARD DETAILS, LIST OF ILLINOIS DOT HIGHWAY STANDARDS, GENERAL NOTES, HALF TRAP DETAIL, BENCHMARKS, HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 2
CONTRACT NO. 61E51				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

MWRDGC GENERAL NOTES

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
LOCAL SEWER SYSTEMS SECTION

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - VILLAGE OF BROOKFIELD AND LYONS MUNICIPAL CODE;
 - THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 - IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
- THE VILLAGE OF BROOKFIELD AND LYONS ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS _____ FT.
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=40	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350	ASTM D-3261,F-2620 (HEAT FUSION)
	ASTM D-3035	ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 3/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS (SEWER-TAP MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 - WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING FLEXIBLE COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED, AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE.
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMANS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

EROSION CONTROL NOTES


- CONCRETE TRUCKS MAY NOT WASH OUT ON SITE. DUE TO THE CLOSE PROXIMITY OF THE CONCRETE READY MIX SITE, (LESS THAN 1 MILE), CONCRETE TRUCKS SHALL RETURN TO THE PLANT FOR WASHOUT.
- UPON INSTALLATION OF THE NEW CATCH BASINS AND INLETS WITH OPEN LIDS, INLET FILTERS SHALL IMMEDIATELY BE INSTALLED IN THEM TO CONTROL/PREVENT SEDIMENT INTO THE SEWER SYSTEM.
- IMMEDIATELY AFTER THE INSTALLATION OF THE STREET PAVING, ALL DISTURBED AREAS SHALL BE RESTORED WITH TOPSOIL, SEEDING, AND EROSION CONTROL BLANKET.

FILE NAME	VILLAGE OF BROOKFIELD	USER NAME =	DESIGNED -- AMS	REVISED -- JLC 10/19/17
	FAU 2965 (CUSTER AVENUE)		DRAWN -- JFP	REVISED -- JLC 11/29/17
	FAU 1488 (47th STREET) TO FAP 0311 (ODGEN AVENUE)	PLOT SCALE =	CHECKED -- JLC	REVISED -- JLC 12/08/17
#16494	WINDENING AND RESURFACING	PLOT DATE =	DATE -- 7/17	REVISED -- JLC 2/06/18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MWRDGC GENERAL NOTES

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

	NOVOTNY ENGINEERING		545 Plainfield Road, Suite A Willowbrook, IL 60527 T: (630) 887.8640 F: (630) 887.0132	
	Illinois Professional Design Firm No. 184-000928			
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2965	17-00131-00-RS	COOK	26	3
CONTRACT NO. 61E51				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Specialty Item	Special Provision	Code No	Item	Unit	Total Quantity	Construction Code Roadway 0005
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	59	59
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	108	108
		20101000	TEMPORARY FENCE	FOOT	890	890
		20101100	TREE TRUNK PROTECTION	EACH	11	11
*		20101200	TREE ROOT PRUNING	EACH	58	58
*		20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	15	15
		20200100	EARTH EXCAVATION	CU YD	670	670
		20200200	ROCK EXCAVATION	CU YD	120	120
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	75	75
		20800150	TRENCH BACKFILL	CU YD	225	225
		21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SO YD	3050	3050
*		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	40	40
*		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	40	40
*		25200100	SODDING	SO YD	3050	3050
*		25200200	SUPPLEMENTAL WATERING	UNIT	44	44
		28000510	INLET FILTERS	EACH	38	38
		30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	75	75
		31101180	SUBBASE GRANULAR MATERIAL, TYPE B, 2"	SO YD	1255	1255
		31101200	SUBBASE GRANULAR MATERIAL, TYPE B, 4"	SO YD	2950	2950
		35800100	PREPARATION OF BASE	SO YD	13270	13270
		35800200	AGGREGATE BASE REPAIR	TON	1155	1155
		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	130	130
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6485	6485
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	150	150
		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	3070	3070
		40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1460	1460
		42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SO YD	50	50
		42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 7 INCH	SO YD	1115	1115
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	7000	7000
		42400400	PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH	SO FT	600	600
		42400800	DETECTABLE WARNINGS	SO FT	473	473
		44000100	PAVEMENT REMOVAL	SO YD	160	160
		44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	1085	1085
		44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SO YD	12380	12380
		44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	700	700
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	7720	7720
		44000600	SIDEWALK REMOVAL	SO FT	2015	2015
		44201725	CLASS D PATCHES, TYPE I, 7 INCH	SO YD	35	35
		44201729	CLASS D PATCHES, TYPE II, 7 INCH	SO YD	110	110
		44201733	CLASS D PATCHES, TYPE III, 7 INCH	SO YD	60	60
		44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SO YD	45	45
		50300300	PROTECTIVE COAT	SO YD	3800	3800
		55100200	STORM SEWER REMOVAL 6"	FOOT	77	77

Specialty Item	Special Provision	Code No	Item	Unit	Total Quantity	Construction Code Roadway 0005
		55100300	STORM SEWER REMOVAL 8"	FOOT	488	488
		55100400	STORM SEWER REMOVAL 10"	FOOT	143	143
		56400100	FIRE HYDRANTS TO BE MOVED	EACH	2	2
*		56400500	FIRE HYDRANTS TO BE REMOVED	EACH	11	11
*		56400600	FIRE HYDRANTS	EACH	11	11
		60200105	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	7	7
		60200205	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	10	10
		60200605	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	2	2
		60218400	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	10	10
		60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	24	24
		60248700	VALVE VAULT, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4
		60250200	CATCH BASINS TO BE ADJUSTED	EACH	9	9
		60252500	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1
		60255500	MANHOLES TO BE ADJUSTED	EACH	6	6
		60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2
		60260100	INLETS TO BE ADJUSTED	EACH	2	2
		60265700	VALVE VAULTS TO BE ADJUSTED	EACH	4	4
		60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	2	2
		60266600	VALVE BOXES TO BE ADJUSTED	EACH	6	6
		60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2
		60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	10	10
		60500340	REMOVING MANHOLES	EACH	10	10
		60500050	REMOVING CATCH BASINS	EACH	18	18
		60500060	REMOVING INLETS	EACH	24	24
*		60604100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)	FOOT	7720	7720
*		66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	3	3
*		66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1
*		66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MC	6	6
		67100100	MOBILIZATION	L SUM	1	1
		70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	655	655
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	210	210
		70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	110	110
		70300240	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	345	345
		70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	925	925
		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	280	280
*		72400710	RELOCATE SIGN PANEL - TYPE 1	SO FT	111	111
*		72900200	METAL POST - TYPE B	FOOT	270	270
*		78000100	THERMOPLASTIC PAVEMENT MARKINGS - LETTERS AND SYMBOLS	SO FT	110	110

Specialty Item	Special Provision	Code No	Item	Unit	Total Quantity	Construction Code Roadway 0005
*		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	393	393
*		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	925	925
*		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	280	280
*		84400405	RELOCATE EXISTING WOOD POLES	EACH	3	3
*	*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	85	85
*		A2000620	TREE, ACER PLATANOIDES (NORWAY MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12
*		A2004620	TREE, GLEDITSIA TRIACANTHOS INERMIS (THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11
*		A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11
*		A2004420	TREE, GINKGO BILOBA (GINKGO), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11
*		A2007820	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11
*		A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11
*		Z0004544	HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL	SO YD	415	415
*		Z0019600	DUST CONTROL WATERING	UNIT	18	18
*		Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	52	52
*		Z0056604	STORM SEWER (WATER MAIN QUALITY REQUIREMENTS), 8 INCH	FOOT	507	507
*		Z0056606	STORM SEWER (WATER MAIN QUALITY REQUIREMENTS), 10 INCH	FOOT	123	123
*		X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	4	4
*		X0327348	COMBINED SEWER REMOVAL 10"	FOOT	62	62
*		X0327614	COMBINED SEWER REMOVAL 12"	FOOT	151	151
*		X0795800	COARSE AGGREGATE	TON	50	50
*		X3580300	AGGREGATE BASE REPAIR (SPECIAL)	TON	320	320
*		X4080052	INCIDENTAL HOT-MIX ASPHALT SURFACING (SPECIAL)	TON	12	12
*		X4404400	PAVEMENT REMOVAL (SPECIAL)	SO YD	25	25
*		X4404700	SIDEWALK REMOVAL (SPECIAL)	SO FT	3065	3065
*		X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	13	13
*		X8140115	HANDHOLE TO BE ADJUSTED	EACH	2	2
*		XX003803	SANITARY SEWER SERVICE 6"	FOOT	45	45
*		XX000717	STORM SEWER CONNECTION, SPECIAL	EACH	8	8
*		XX005535	SEWER SPOT REPAIRS, 12"	FOOT	102	102
*		XX005565	REMOVE AND RESET BRICK PAVERS	SO FT	460	460
*		XX006281	STORM SEWERS, DUCTILE IRON, TYPE 1, 10"	FOOT	47	47
*		XX006448	PVC COMBINED SEWER PIPE REPLACEMENT 10"	FOOT	64	64
*		XX006449	PVC COMBINED SEWER PIPE REPLACEMENT 12"	FOOT	151	151
*		XX006451	10" x 6" PVC SEWER SERVICE CONNECTIONS	EACH	2	2
*		XX006464	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED (SPECIAL)	EACH	8	8
*		XX007689	PVC TEE, 12" X 6"	EACH	2	2
*		XX007724	SOD STRIPPING, 2" DEPTH	SO YD	2385	2385
*		XX007831	SANITARY SEWER SERVICE LATERAL CONNECTION 6"	EACH	3	3

FILE NAME VILLAGE OF BROOKFIELD
FAU 2965 (CUSTER AVENUE)
FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE)
#16494 WINDENING AND RESURFACING

USER NAME =
PLOT SCALE =
PLOT DATE =

DESIGNED -- AMS
DRAWN -- JFP
CHECKED -- JLC
DATE -- 7/17

REVISED -- JLC 9/29/17
REVISED -- JLC 10/19/17
REVISED -- JLC 11/29/17
REVISED -- JLC 12/08/17
REVISED -- JLC 2/06/18

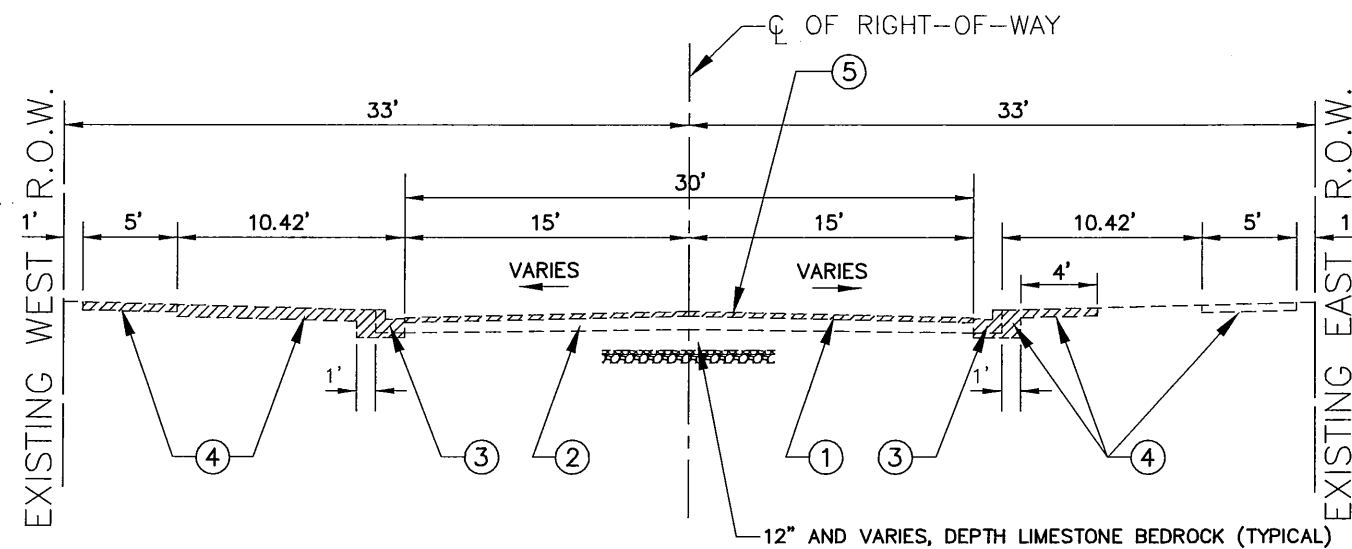
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.



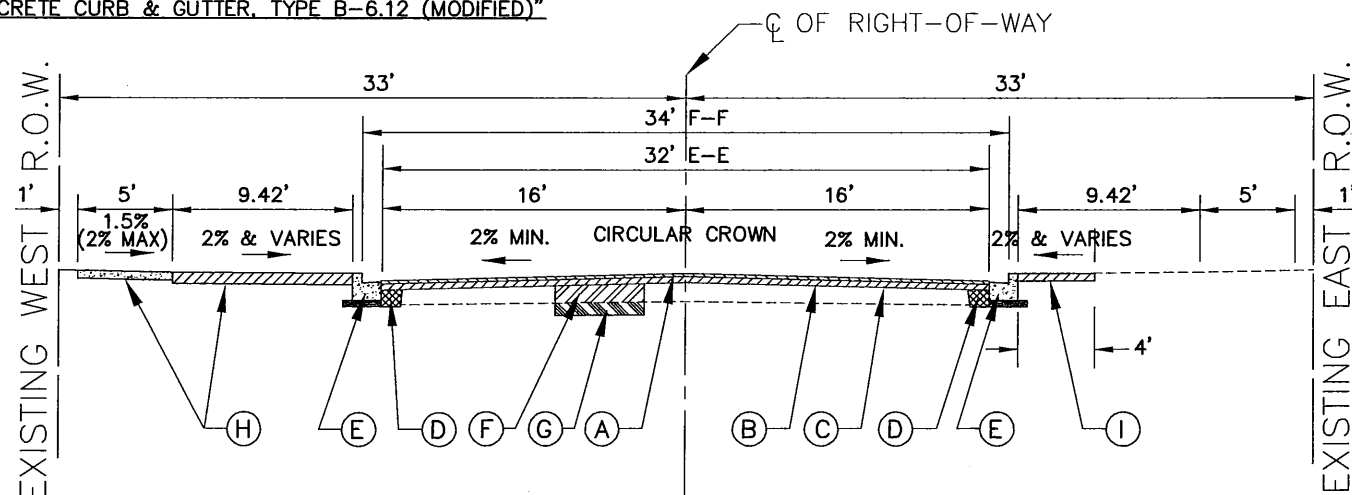
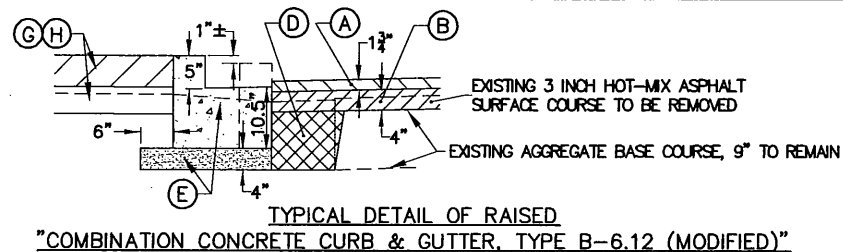
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2965	17-00131-00-RS	COOK	26	4
CONTRACT NO. 61E51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
 STA. 0+83 TO STA. 10+43, CUSTER AVENUE
 STA. 19+45 TO STA. 39+59, CUSTER AVENUE

- EXISTING LEGEND**
- ① EXISTING HOT-MIX ASPHALT SURFACE COURSE, 3" & VARIES
 - ② EXISTING AGGREGATE BASE COURSE, 9" & VARIES TO REMAIN
 - ③ EXISTING COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MODIFIED)
 - ④ PORTLAND CEMENT CONCRETE CARRIAGE WALK, PORTLAND CEMENT CONCRETE SERVICE WALK, PORTLAND CEMENT CONCRETE SIDEWALK, PORTLAND CEMENT CONCRETE DRIVEWAY, HOT-MIX ASPHALT DRIVEWAY, OR EXISTING GRASS PARKWAY
 - ⑤ PROPOSED "HOT-MIX ASPHALT SURFACE REMOVAL, 3 INCH" (FULL WIDTH) AND "HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2 INCH" (AT VARIOUS STREET APPROACHES, AS NOTED ON THE PLANS)
- ▨ INDICATES REMOVAL ITEMS AS APPLICABLE "COMBINATION CURB AND GUTTER REMOVAL", "EARTH EXCAVATION", "PAVEMENT REMOVAL", "DRIVEWAY PAVEMENT REMOVAL", "SIDEWALK REMOVAL", "HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL", "PAVEMENT REMOVAL (SPECIAL)", OR "SOD STRIPPING, 2 INCH DEPTH"

NOTE:
 SEE SHEET 2 FOR HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE.



PROPOSED TYPICAL SECTION
 STA. 0+83 TO STA. 10+43, CUSTER AVENUE
 STA. 19+45 TO STA. 39+59, CUSTER AVENUE

- PROPOSED LEGEND**
- (A) PROPOSED "HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50", 1-3/4 INCH
 - (B) PROPOSED "HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50", 4 INCH
 - (C) PROPOSED "PREPARATION OF BASE"
 - (D) PROPOSED "AGGREGATE BASE REPAIR"
 - (E) PROPOSED "COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)" ON "SUBBASE GRANULAR MATERIAL, TYPE B, 4 INCH" (TYPICAL BOTH SIDES)
 - (F) PROPOSED "AGGREGATE BASE REPAIR (SPECIAL)" AS DIRECTED
 - (G) PROPOSED "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" AND "AGGREGATE SUBGRADE IMPROVEMENT" AS APPLICABLE
 - (H) PROPOSED "PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH" ON "SUBBASE GRANULAR MATERIAL, TYPE B, 2 INCH" OR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH" OR 7 INCH (AS DIRECTED) ON "SUBBASE GRANULAR MATERIAL, TYPE B, 2 INCH"
 - (I) PROPOSED "TOPSOIL FURNISH & PLACE, VARIABLE DEPTH" AND "SODDING"

NOTE: CLASS D PATCHING OF VARIOUS TYPES, IF REQUIRED, AT STREET APPROACH PAVEMENTS, TO REMAIN.

IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES.
 REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

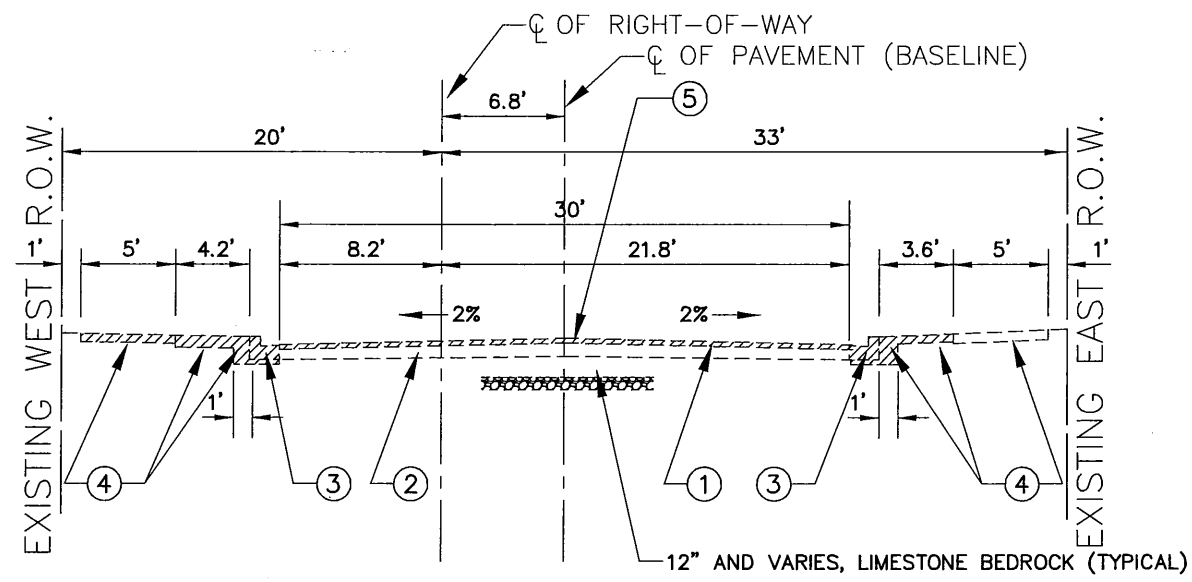
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 Illinois Professional Design Firm No. 184-000938

FILE NAME VILLAGE OF BROOKFIELD FAU 2965 (CUSTER AVENUE) FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE) #16494 WINDENING AND RESURFACING	USER NAME =	DESIGNED -- AMS DRAWN -- JFP CHECKED -- JLC DATE -- 7/17	REVISED -- JLC 9/29/17 REVISED -- JLC 10/19/17 REVISED -- JLC 11/29/17 REVISED -- JLC 12/08/17 REVISED -- JLC 2/06/18
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS			
SCALE: 1"=5'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. R.T.E. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E51	

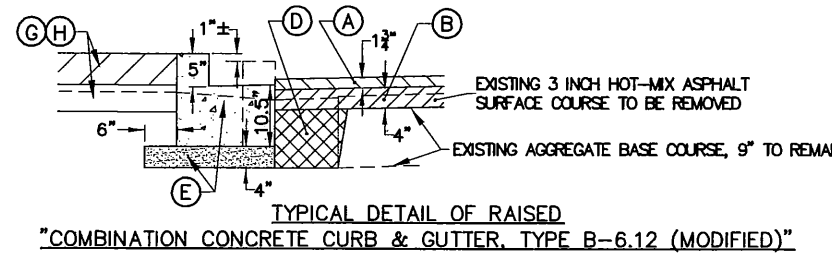


EXISTING TYPICAL SECTION
STA. 10+43 TO STA. 18+55, CUSTER AVENUE

EXISTING LEGEND

- ① EXISTING HOT-MIX ASPHALT SURFACE COURSE, 3" & VARIES
 - ② EXISTING AGGREGATE BASE COURSE, 9" & VARIES TO REMAIN
 - ③ EXISTING COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MODIFIED)
 - ④ ALLEY RETURN, PORTLAND CEMENT CONCRETE CARRIAGE WALK, PORTLAND CEMENT CONCRETE SERVICE WALK, PORTLAND CEMENT CONCRETE SIDEWALK, PORTLAND CEMENT CONCRETE DRIVEWAY, HOT-MIX ASPHALT DRIVEWAY, OR EXISTING GRASS PARKWAY
 - ⑤ PROPOSED "HOT-MIX ASPHALT SURFACE REMOVAL, 3 INCH" (FULL WIDTH) AND "HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2 INCH" (AT VARIOUS STREET APPROACHES, AS NOTED ON THE PLANS)
- INDICATES REMOVAL ITEMS AS APPLICABLE "COMBINATION CURB AND GUTTER REMOVAL", "EARTH EXCAVATION", "PAVEMENT REMOVAL", "DRIVEWAY PAVEMENT REMOVAL", "SIDEWALK REMOVAL", "HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL", "PAVEMENT REMOVAL (SPECIAL)", OR "SOD STRIPPING, 2 INCH DEPTH"

NOTE:
SEE SHEET 2 FOR HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE.

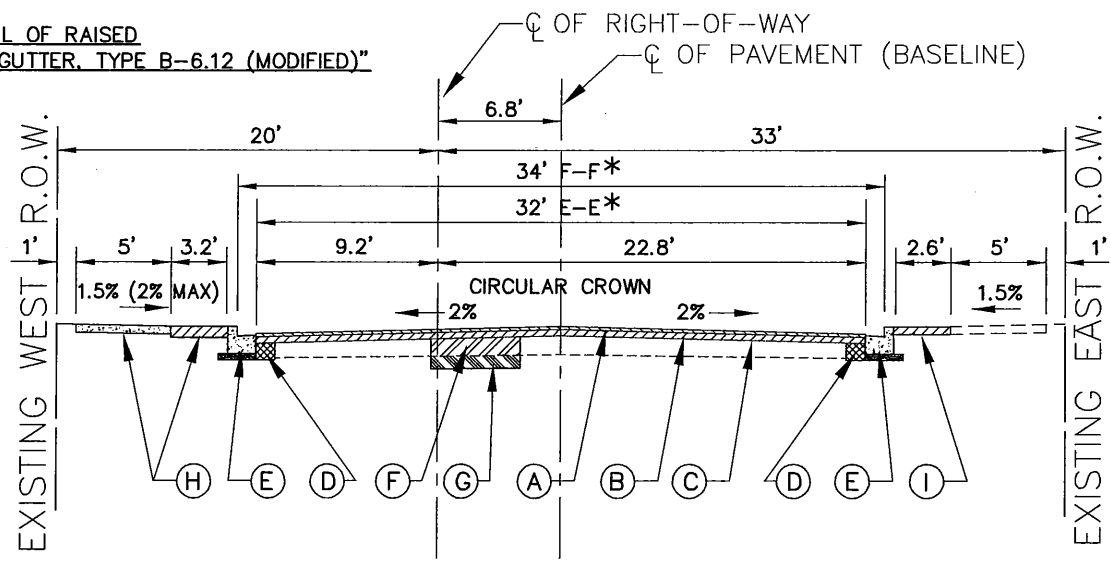


*NOTE:
BETWEEN STA. 16+74 AND STA. 18+30, THE PAVEMENT SHALL BE 31' E-E (33' F-F) AND "NO PARKING" SHALL BE POSTED ON THE WEST SIDE OF THE STREET.

PROPOSED LEGEND

- Ⓐ PROPOSED "HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50", 1-3/4 INCH
- Ⓑ PROPOSED "HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50", 4 INCH
- Ⓒ PROPOSED "PREPARATION OF BASE"
- Ⓓ PROPOSED "AGGREGATE BASE REPAIR"
- Ⓔ PROPOSED "COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)" ON "SUBBASE GRANULAR MATERIAL, TYPE B, 4 INCH" (TYPICAL BOTH SIDES)
- Ⓕ PROPOSED "AGGREGATE BASE REPAIR (SPECIAL)" AS DIRECTED
- Ⓖ PROPOSED "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" AND "AGGREGATE SUBGRADE IMPROVEMENT" AS APPLICABLE
- Ⓗ PROPOSED "HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH" FOR DRIVEWAYS AND "HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50", 3 INCH, IN 2 LIFTS OR PROPOSED "PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH" ON "SUBBASE GRANULAR MATERIAL, TYPE B, 2 INCH" OR PROPOSED ALLEY RETURN WITH "PORTLAND CEMENT CONCRETE PAVEMENT, 8 INCH" ON "SUBBASE GRANULAR MATERIAL, TYPE, 2 INCH" OR PROPOSED "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH" OR 7 INCH (AS DIRECTED) ON "SUBBASE GRANULAR MATERIAL, TYPE B, 2 INCH"
- Ⓘ PROPOSED "TOPSOIL FURNISH & PLACE, VARIABLE DEPTH" AND "SODDING"

NOTE: CLASS D PATCHING OF VARIOUS TYPES, IF REQUIRED, AT STREET APPROACH PAVEMENTS, TO REMAIN.



PROPOSED TYPICAL SECTION
STA. 10+43 TO STA. 18+55, CUSTER AVENUE

IMPORTANT!

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

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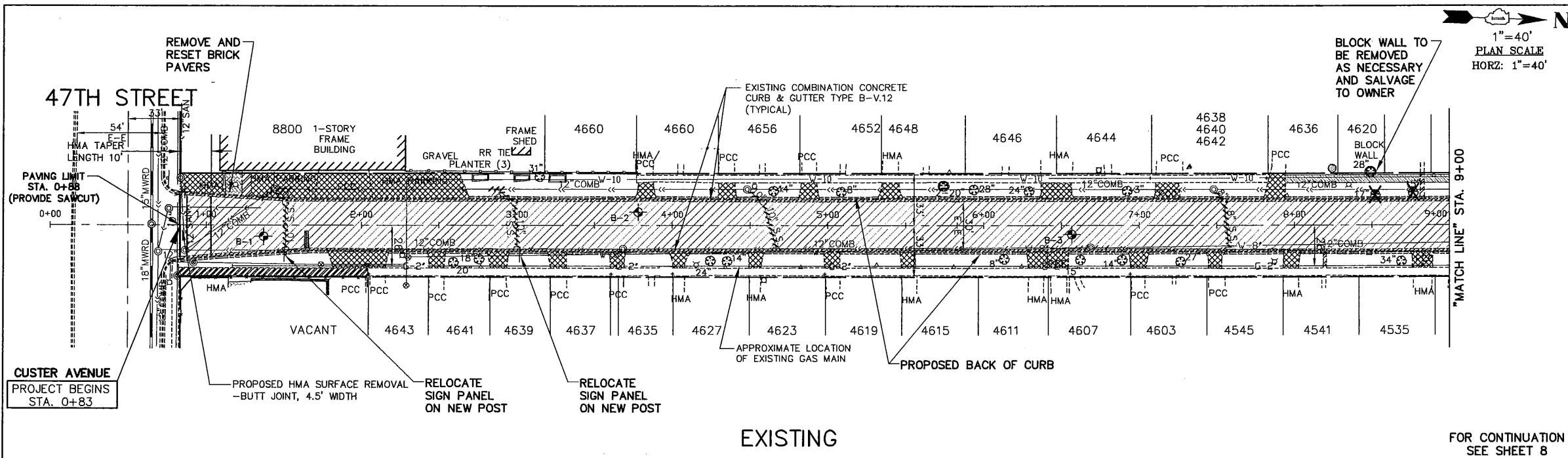
FILE NAME VILLAGE OF BROOKFIELD FAU 2965 (CUSTER AVENUE) FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE) #16494 WINDENING AND RESURFACING	USER NAME =	DESIGNED - AMS DRAWN - JFP CHECKED - JLC DATE - 7/17	REVISED - JLC 9/29/17 REVISED - JLC 10/19/17 REVISED - JLC 11/29/17 REVISED - JLC 12/08/17 REVISED - JLC 2/06/18
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.U. R.T.E. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 6
CONTRACT NO. 61E51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



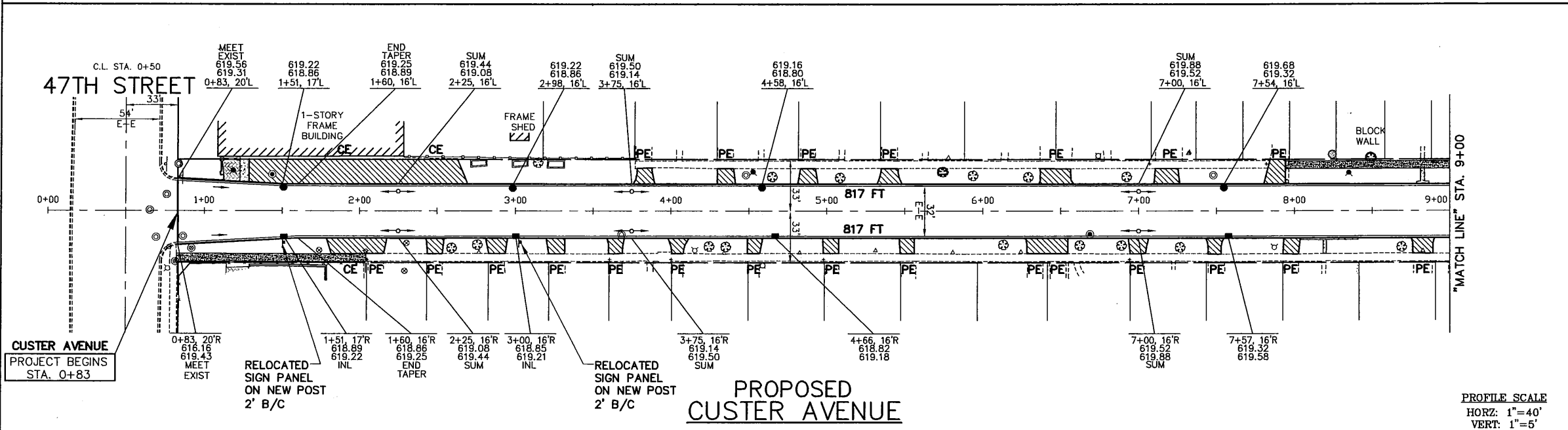
1"=40'
PLAN SCALE
HORZ: 1"=40'

40 0 40 80
GRAPHIC SCALE
IN FEET

REMOVAL LEGEND

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2 INCH
- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 3 INCH
- DENOTES DRIVEWAY PAVEMENT REMOVAL OR HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
- DENOTES EARTH EXCAVATION
- DENOTES SIDEWALK REMOVAL OR SIDEWALK REMOVAL (SPECIAL)
- DENOTES PAVEMENT REMOVAL
- DENOTES SEWER REMOVAL
- DENOTES COMBINATION CURB AND GUTTER REMOVAL
- DENOTES TREE REMOVAL (SIZE AS NOTED)

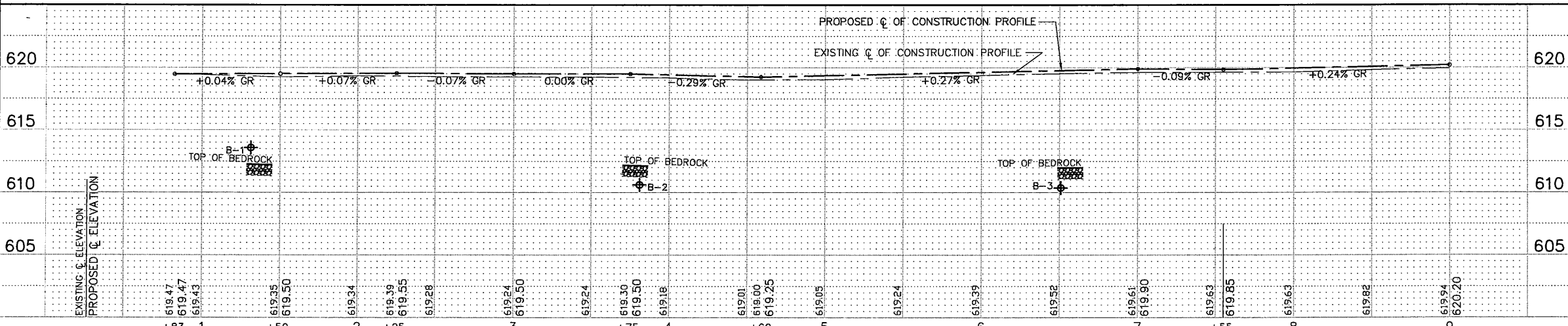
FOR CONTINUATION
SEE SHEET 8



PROPOSED PAVEMENT LEGEND

- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-3/4 INCH OVER BITUMINOUS MATERIALS (TACK COAT) AT 0.05 LBS/S.F. AND HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4 INCH OVER AGGREGATE BASE REPAIR, PREPARATION OF BASE
- DENOTES INCIDENTAL HOT-MIX ASPHALT SURFACING, (SPECIAL)
- DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7" ON "SUBBASE GRANULAR MATERIAL, TYPE, 2 INCH"
- DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH OR (7 INCH THICKNESS AT DRIVEWAYS)
- DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) ON SUBBASE GRANULAR MATERIAL, 4 INCH
- DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH WITH DETECTABLE WARNINGS PER I.D.O.T. STANDARDS FOR ADA RAMPS (WHERE APPLICABLE) SEE PLAN SHEETS-AND CONSTRUCTION HIGHWAY STANDARDS
- DENOTES PRIVATE DRIVE OR COMMERCIAL DRIVE

PROFILE SCALE
HORZ: 1"=40'
VERT: 1"=5'



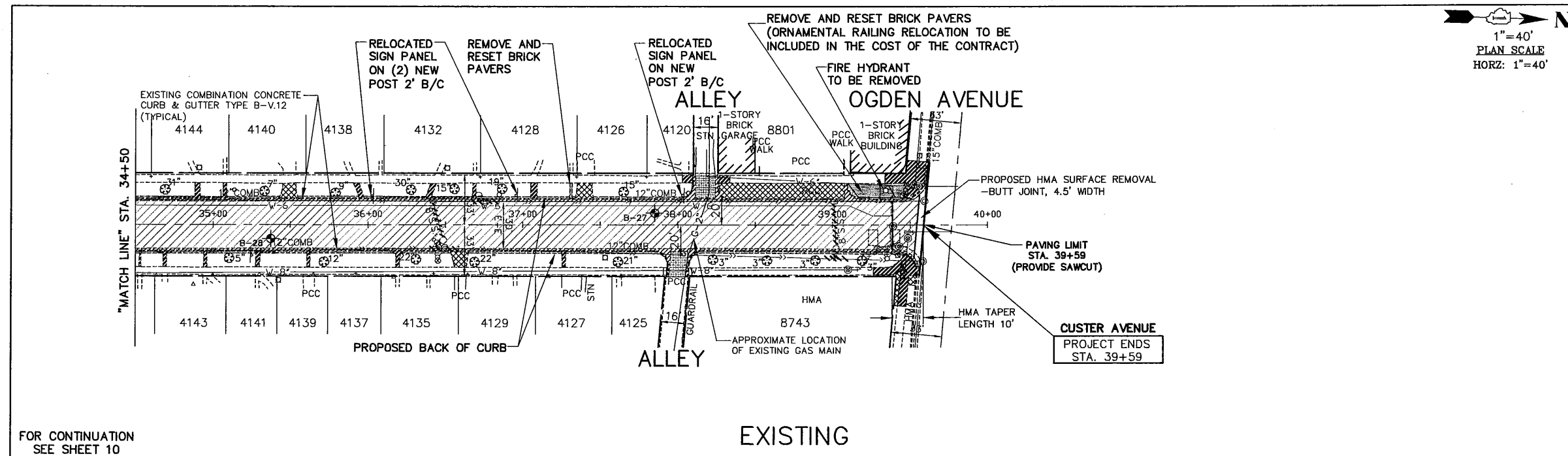
IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FOR TYPICAL SECTIONS OF NEW PAVEMENT WORK SEE SHEET 5

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Illinois Professional Design Firm No. 184-000978

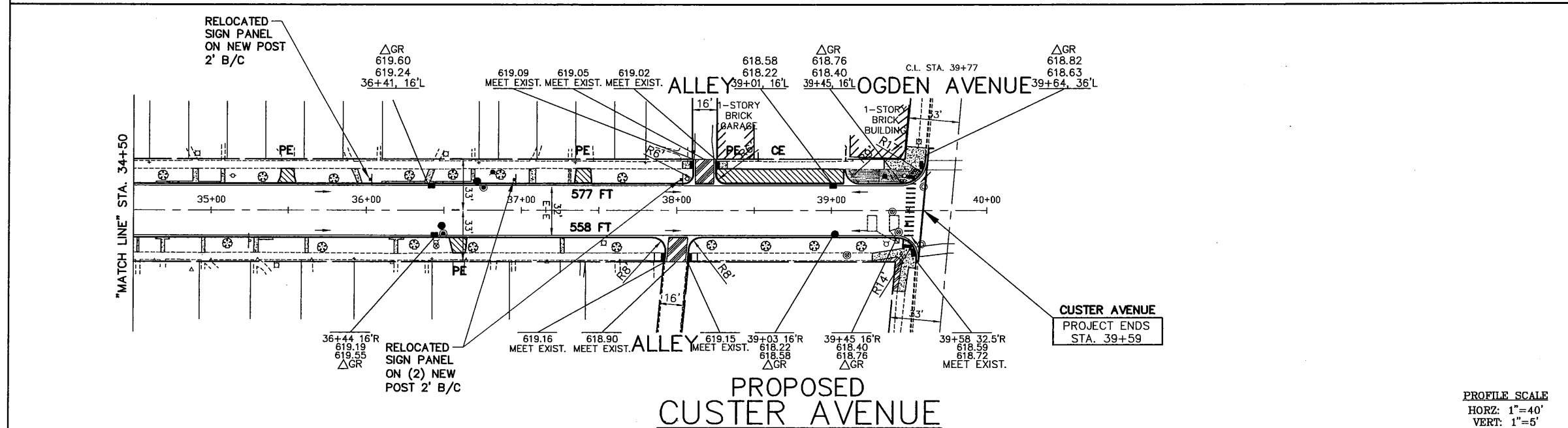
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2965	17-00131-00-RS	COOK	26	7
CONTRACT NO. 61E51				

FILE NAME VILLAGE OF BROOKFIELD FAU 2965 (CUSTER AVENUE) FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE) #16494 WIDENING AND RESURFACING	USER NAME =	DESIGNED - AMS DRAWN - JFP CHECKED - JLC DATE - 7/17	REVISED - JLC 9/29/17 REVISED - JLC 10/19/17 REVISED - JLC 11/29/17 REVISED - JLC 12/08/17 REVISED - JLC 2/06/18	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE: CUSTER AVENUE - 47TH STREET TO STA. 9+00 (EXISTING & PROPOSED ROADWAY PLAN) SCALE: AS NOTED SHEET NO. OF SHEETS STA. 0+83 TO STA. 9+00	F.A.U. R.T.E. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 7
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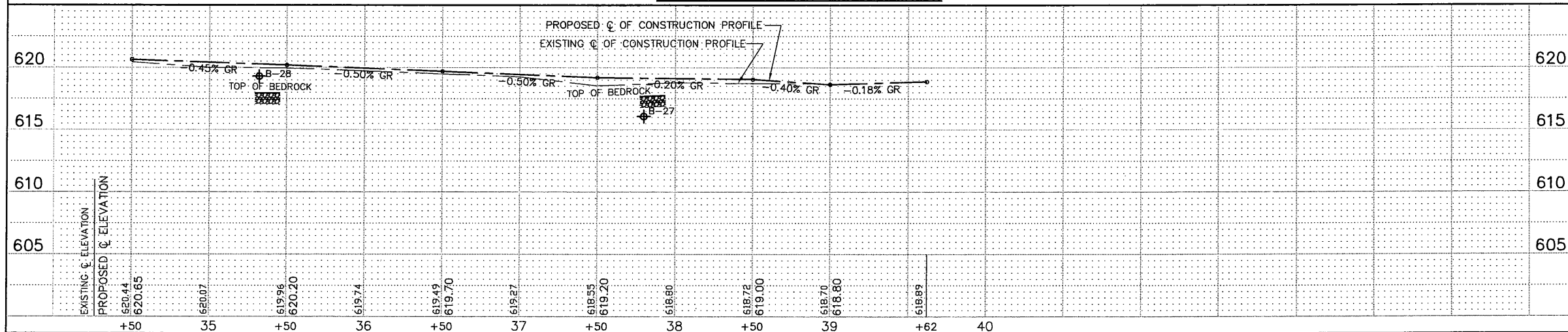
REMOVAL LEGEND

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2 INCH
- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 3 INCH
- DENOTES DRIVEWAY PAVEMENT REMOVAL OR HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
- DENOTES EARTH EXCAVATION
- DENOTES SIDEWALK REMOVAL OR SIDEWALK REMOVAL (SPECIAL)
- DENOTES PAVEMENT REMOVAL
- DENOTES SEWER REMOVAL
- DENOTES COMBINATION CURB AND GUTTER REMOVAL
- DENOTES TREE REMOVAL (SIZE AS NOTED)



PROPOSED PAVEMENT LEGEND

- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-3/4 INCH OVER BITUMINOUS MATERIALS (TACK COAT) AT 0.05 LBS./S.F. AND HOT-MIX ASPHALT BINDER COURSE, 1-19.0, N50, 4 INCH OVER AGGREGATE BASE REPAIR, PREPARATION OF BASE
- DENOTES INCIDENTAL HOT-MIX ASPHALT SURFACING, (SPECIAL)
- DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7" ON "SUBBASE GRANULAR MATERIAL, TYPE, 2 INCH"
- DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH OR (7 INCH THICKNESS AT DRIVEWAYS)
- DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) ON SUBBASE GRANULAR MATERIAL, 4 INCH
- DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH WITH DETECTABLE WARNINGS PER I.D.O.T. STANDARDS FOR ADA RAMP (WHERE APPLICABLE) SEE PLAN SHEETS-AND CONSTRUCTION HIGHWAY STANDARDS
- PE/CE DENOTES PRIVATE DRIVE OR COMMERCIAL DRIVE

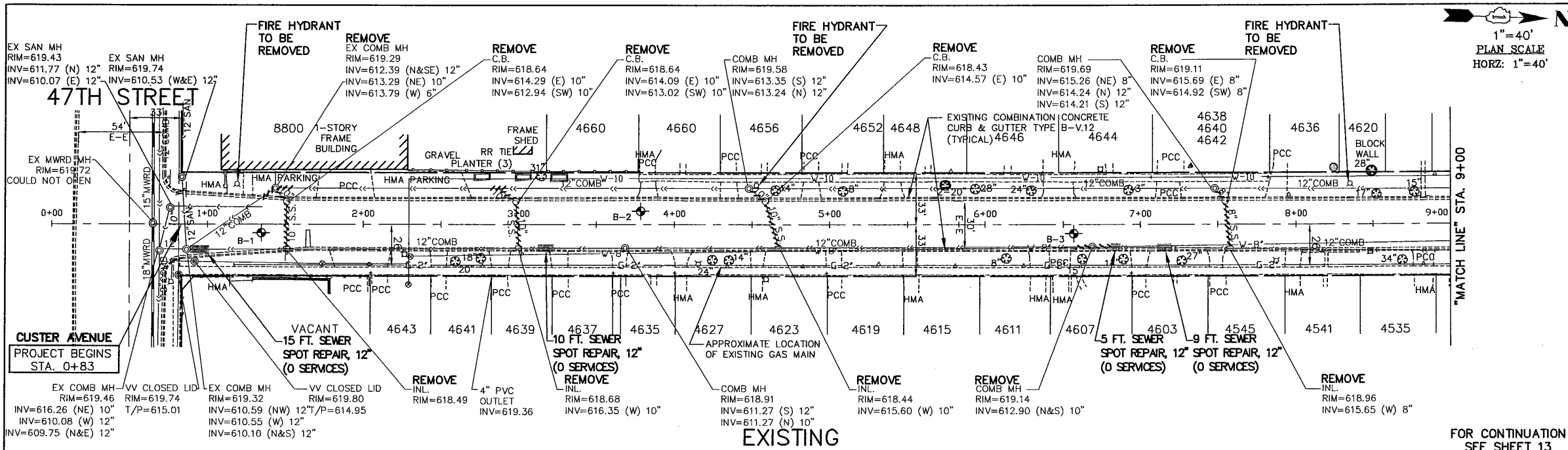


IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FOR TYPICAL SECTIONS OF NEW PAVEMENT WORK SEE SHEET 6

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FILE NAME VILLAGE OF BROOKFIELD FAU 2965 (CUSTER AVENUE) FAU 148B (47th STREET) TO FAP 0311 (OGDEN AVENUE) #16494 WIDENING AND RESURFACING	USER NAME =	DESIGNED - AMS	REVISED - JLC 9/29/17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE: CUSTER AVENUE - STA. 26+00 TO OGDEN AVENUE (EXISTING & PROPOSED ROADWAY PLAN)	F.A.U. R/E: 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 11	
PLOT SCALE =	DRAWN - JFP	REVISED - JLC 10/19/17	SCALE: AS NOTED			SHEET NO. OF SHEETS	STA. 26+00 TO STA. 39+62	CONTRACT NO. 61E51		ILLINOIS FED. AID PROJECT	
PLOT DATE =	CHECKED - JLC	REVISED - JLC 11/29/17									
	DATE - 7/17	REVISED - JLC 12/08/17									
		REVISED - JLC 2/06/18									



1"=40'
PLAN SCALE
HORZ: 1"=40'



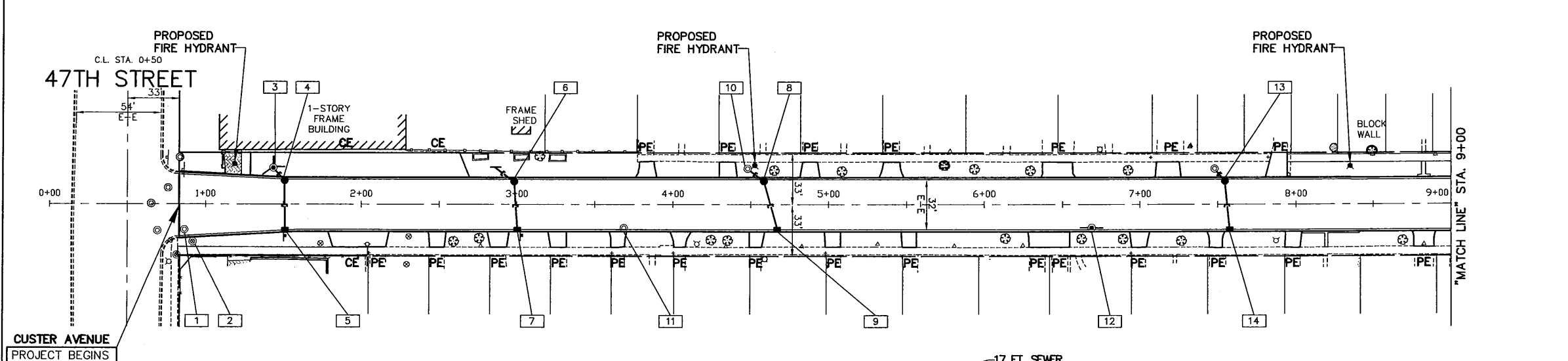
EXISTING DRAINAGE PLAN REMOVAL LEGEND
SEE SHEET 16

PROPOSED DRAINAGE PLAN LEGEND
SEE SHEET 16

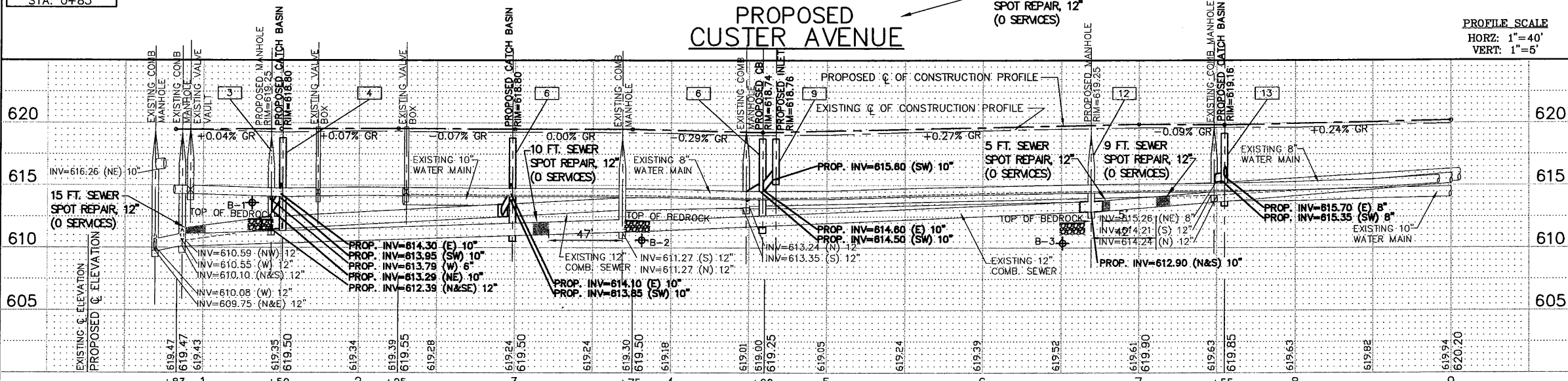
PROPOSED PIPE AND STRUCTURE SCHEDULE

- | | |
|--|---|
| <p>1 MANHOLE TO BE ADJUSTED
NEW TYPE 1 FR. & C.L.
RIM=619.74</p> <p>2 VALVE VAULT TO BE RECONSTRUCTED
NEW TYPE 1 FR. & C.L.
RIM=619.80</p> <p>3 PROPOSED MANHOLE, TYPE A,
4' DIA. TYPE 1 FR. & C.L.
RIM=619.25
INV(N/SE)=612.39, 12"
INV(N/E)=613.29, 10"
INV(W)=613.79, 6"
10 FT. - PVC COMBINED SEWER
PIPE REPLACEMENT 12"
5 FT. - SANITARY SEWER SERVICE, 6"
5 C.Y. - TRENCH BACKFILL</p> <p>4 PROPOSED CATCH BASIN, TYPE A,
4' DIA., TYPE 1 FR. & O.L.
RIM=618.80
INV(SW)=613.95, 10" W/HALF TRAP
INV(E)=614.30, 10"
7 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
10" @ 6.67% GR.
2 C.Y. - TRENCH BACKFILL</p> <p>5 PROPOSED INLET, TYPE A,
TYPE 1 FR. & O.L.
RIM=618.80
INV(SW)=613.85, 10" W/HALF TRAP
INV(E)=614.10, 10"
11 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
10" @ 1.78% GR.
8 C.Y. - TRENCH BACKFILL</p> <p>6 PROPOSED INLET, TYPE A,
TYPE 1 FR. & O.L.
RIM=618.79
INV=616.35
28 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
10" @ 8.03% GR.
8 C.Y. - TRENCH BACKFILL</p> | <p>8 PROPOSED CATCH BASIN, TYPE A,
4' DIA., TYPE 1 FR. & O.L.
RIM=618.74
INV(SW)=614.50, 10" W/HALF TRAP
INV(E)=614.60, 10"
8 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
10"
1 EA. - PROPOSED STORM SEWER
CONNECTION TO EXISTING MANHOLE
2 C.Y. - TRENCH BACKFILL</p> <p>9 PROPOSED INLET, TYPE A,
TYPE 1 FR. & O.L.
RIM=618.76
INV=615.60
29 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
10" @ 3.44% GR.
5 C.Y. - TRENCH BACKFILL</p> <p>10 MANHOLE TO BE ADJUSTED,
NEW TYPE 1 FR. & C.L.
RIM=619.60</p> <p>11 MANHOLE TO BE RECONSTRUCTED,
NEW TYPE 1 FR. & C.L.
RIM=618.90</p> <p>12 PROPOSED MANHOLE, TYPE A,
4' DIA., TYPE 1 FR. & C.L.,
RIM=619.25
INV(N&S)=612.90
18 FT. - PVC COMBINED SEWER
PIPE REPLACEMENT 12"
15 C.Y. - TRENCH BACKFILL</p> <p>13 PROPOSED CATCH BASIN, TYPE A,
4' DIA., TYPE 1 FR. & O.L.
RIM=619.26
INV(SW)=615.35, 8" W/HALF TRAP
INV(E)=615.70, 8"
8 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS), 8"
1 EA. - PROPOSED STORM SEWER
CONNECTION TO EXISTING MANHOLE
2 C.Y. - TRENCH BACKFILL</p> <p>14 PROPOSED INLET, TYPE A,
TYPE 1 FR. & O.L.
RIM=619.26
INV=616.20
28 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
10" @ 1.78% GR.
8 C.Y. - TRENCH BACKFILL</p> |
|--|---|

FOR CONTINUATION
SEE SHEET 13



PROFILE SCALE
HORZ: 1"=40'
VERT: 1"=5'



FILE NAME VILLAGE OF BROOKFIELD
FAU 2965 (CUSTER AVENUE)
FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE)
#16494 WIDENING AND RESURFACING

USER NAME =	DESIGNED - AMS	REVISED - JLC 9/29/17
PLOT SCALE =	DRAWN - JFP	REVISED - JLC 10/19/17
PLOT DATE =	CHECKED - JLC	REVISED - JLC 11/29/17
	DATE - 7/17	REVISED - JLC 12/08/17
		REVISED - JLC 2/06/18

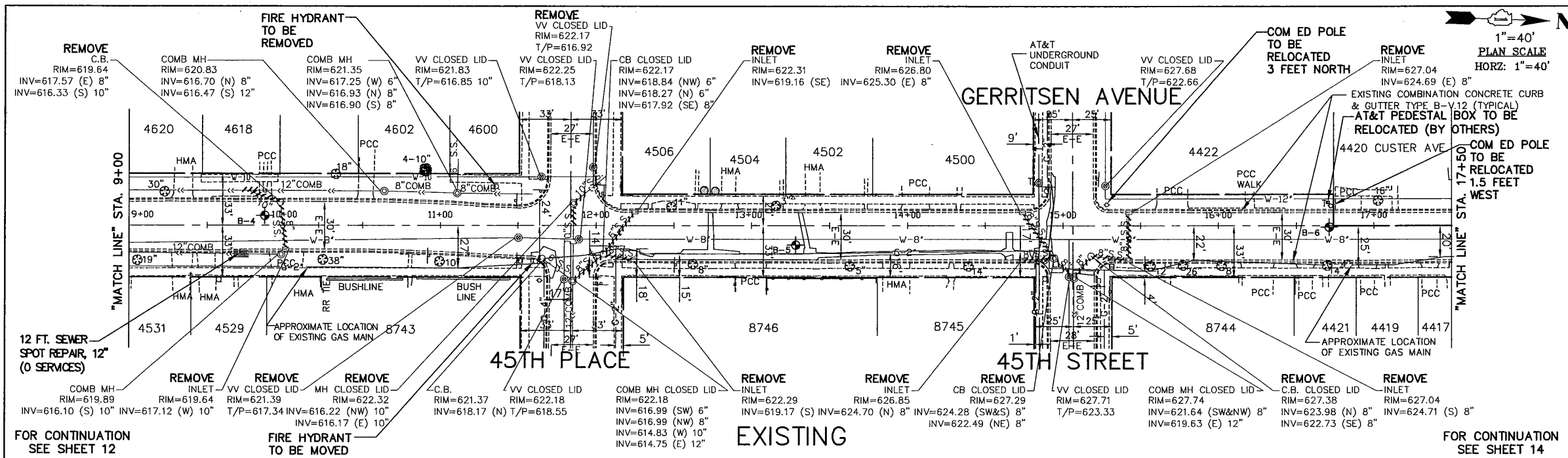
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE: CUSTER AVENUE - 47TH STREET TO STA. 9+00
(EXISTING & PROPOSED ROADWAY DRAINAGE & UTILITY PLAN)
SCALE: AS NOTED SHEET NO. OF SHEETS STA. 0+83 TO STA. 9+00

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM
TO STANDARD SCALES INDICATED IN TITLE BLOCK.



F.A.U. RTE. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 12
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 61E51



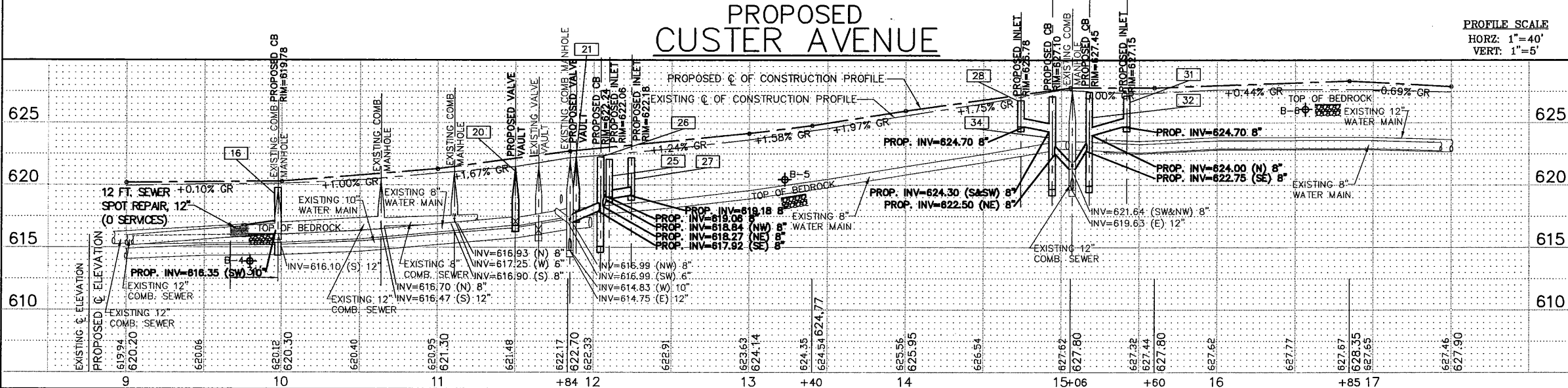
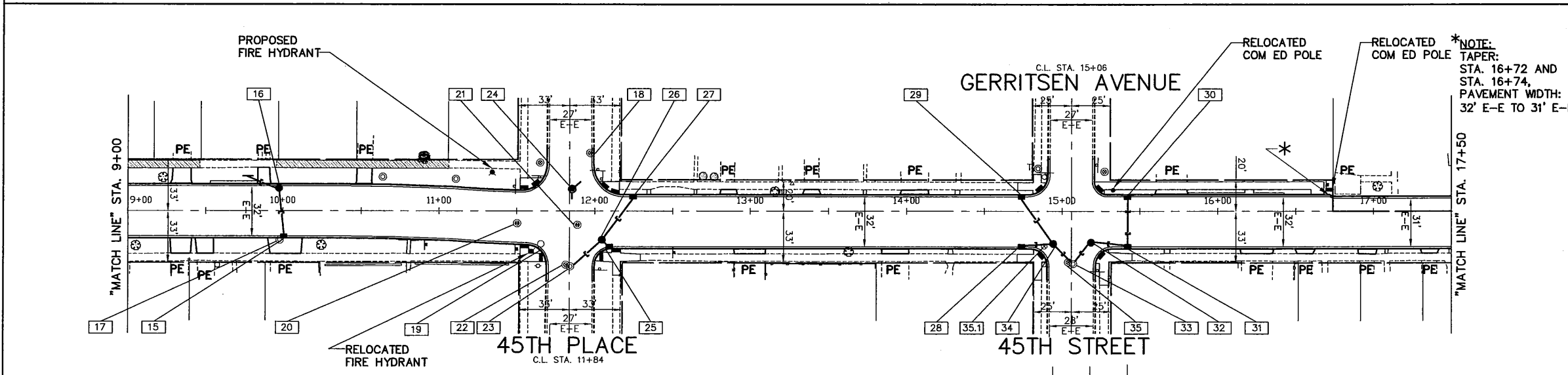
1"=40'
PLAN SCALE
HORZ: 1"=40'

40 0 40 80
GRAPHIC SCALE
IN FEET

EXISTING DRAINAGE PLAN REMOVAL LEGEND
SEE SHEET 16

PROPOSED DRAINAGE PLAN LEGEND
SEE SHEET 16

- PROPOSED PIPE AND STRUCTURE SCHEDULE**
- | | |
|--|--|
| <p>15] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=619.78 INV=617.15 29 FT. - STORM SEWER (WATER MAIN QUALITY REQUIREMENTS), 8" @ 1.6% GR 3 C.Y. - TRENCH BACKFILL</p> <p>16] PROPOSED CATCH BASIN, TYPE A, 4' DIA., TYPE 1 FR. & O.L. RIM=619.78 INV(SW)=616.35, 10" W/HALF TRAP INV(E)=619.95, 8" STORM SEWER (WATER MAIN QUALITY REQUIREMENTS), 8" @ 2.0% 5 FT. - PVC COMBINED SEWER PIPE REPLACEMENT 12" 3 C.Y. - TRENCH BACKFILL</p> <p>17] MANHOLE TO BE ADJUSTED RIM=619.95</p> <p>18] VALVE VAULT TO BE RECONSTRUCTED RIM=622.06</p> <p>19] CATCH BASIN TO BE ADJUSTED RIM=621.41</p> <p>20] VALVE VAULT, TYPE A, 4' DIA., TYPE 1 FR. & C.L. RIM=621.80</p> <p>21] VALVE VAULT, TYPE A, 4' DIA., TYPE 1 FR. & C.L., SPECIAL RIM=622.50</p> <p>22] FRAME AND LID TO BE ADJUSTED SPECIAL RIM=622.20</p> <p>23] FRAME AND LID TO BE ADJUSTED SPECIAL RIM=622.20</p> <p>24] PROPOSED MANHOLE, TYPE A, 4' DIA., TYPE 1 FR. & C.L. RIM=622.55 INV(E)=616.17, 10" INV(NW)=616.22, 10" 10 FT. - STORM SEWER (WATER MAIN QUALITY REQUIREMENTS), 10" 2 EA. - PROPOSED STORM SEWER CONNECTION TO SEWER, 15" 2 C.Y. - TRENCH BACKFILL</p> <p>25] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=622.06 INV=619.06 5 FT. - STORM SEWER (WATER MAIN QUALITY REQUIREMENTS), 8" @ 15.8% GR.</p> <p>26] PROPOSED CATCH BASIN, TYPE A, 4' DIA., TYPE 1 FR. & C.L. RIM=622.24 INV(SE)=617.92, 8" W/HALF TRAP INV(NE)=618.27, 8" INV(NW)=618.84, 8" 21 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 6.0% 1 EA. - PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE 1 C.Y. - TRENCH BACKFILL</p> | <p>27] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=622.18 INV=619.18 30 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 2.2% 8 C.Y. - TRENCH BACKFILL</p> <p>28] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=626.78 INV=624.70 20 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 2.0% 2 C.Y. - TRENCH BACKFILL</p> <p>29] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=626.78 INV=625.30 34 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 2.94% 2 C.Y. - TRENCH BACKFILL</p> <p>30] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=627.15 INV=624.82 30 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 0.40% 2 C.Y. - TRENCH BACKFILL</p> <p>31] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=627.15 INV(S&W)=624.70, 8" 20 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 3.5% 2 C.Y. - TRENCH BACKFILL</p> <p>32] PROPOSED CATCH BASIN, TYPE A, 4' DIA., TYPE 1 FR. & C.L. RIM=627.45 INV(SE)=622.75, 8" W/HALF TRAP INV(N)=624.00, 8" 19 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 5.8% 6 C.Y. - TRENCH BACKFILL</p> <p>33] FRAME AND LID TO BE ADJUSTED SPECIAL RIM=627.70</p> <p>34] PROPOSED CATCH BASIN, TYPE A, 4' DIA., TYPE 1 FR. & C.L. RIM=627.10 INV(NE)=622.50, 8" W/HALF TRAP INV(S&SW)=624.30, 8" 14 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 6.0% 5 C.Y. - TRENCH BACKFILL</p> <p>35] FRAME AND LID TO BE ADJUSTED (SPECIAL) RIM=627.70</p> <p>35.1] VALVE BOX TO BE ADJUSTED</p> |
|--|--|
- NOTE:**
TAPER: STA. 16+72 AND STA. 16+74, PAVEMENT WIDTH: 32' E-E TO 31' E-E



NOTE: ALL INVERT AND RIM ELEVATIONS ARE PROPOSED.
NOTE: SEE SHEET 2 FOR HALF TRAP DETAIL FOR CATCH BASINS TYPE A & C

FILE NAME: VILLAGE OF BROOKFIELD
FAU 2965 (CUSTER AVENUE)
FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE)
#16494 WIDENING AND RESURFACING

USER NAME =	DESIGNED - AMS	REVISED - JLC 9/29/17
PLOT SCALE =	DRAWN - JFP	REVISED - JLC 10/19/17
PLOT DATE =	CHECKED - JLC	REVISED - JLC 11/29/17
	DATE - 7/17	REVISED - JLC 12/08/17
		REVISED - JLC 2/06/18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

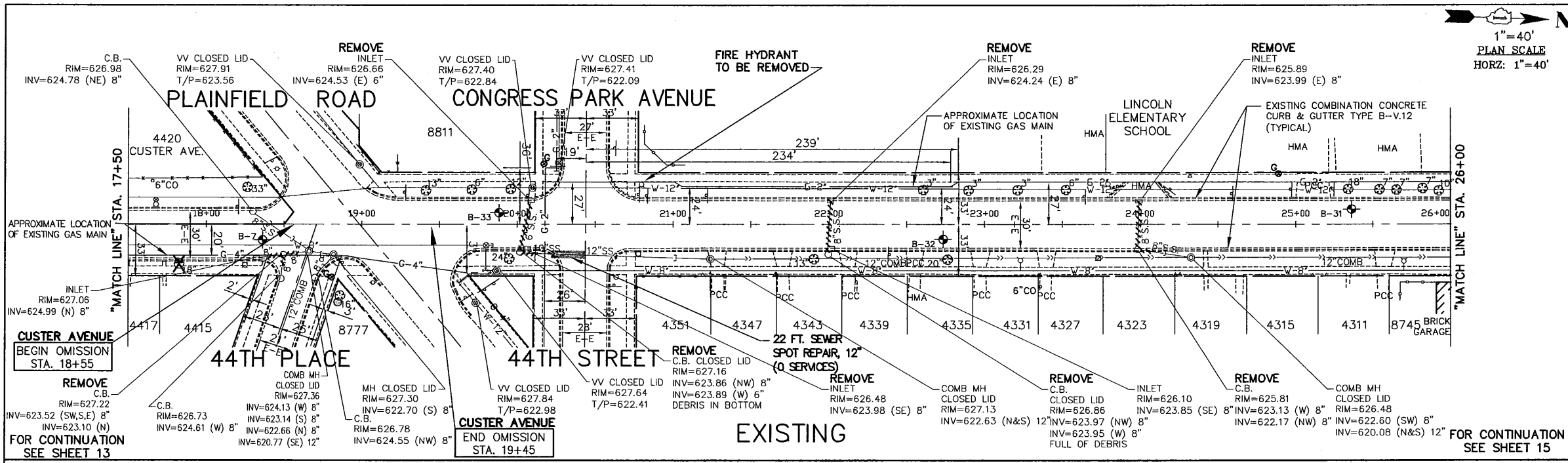
PLAN & PROFILE: CUSTER AVENUE - STA. 9+00 TO STA. 17+50
(EXISTING & PROPOSED ROADWAY DRAINAGE & UTILITY PLAN)

SCALE: AS NOTED | SHEET NO. OF SHEETS | STA. 9+00 TO STA. 17+50

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FOR TYPICAL SECTIONS OF NEW PAVEMENT WORK SEE SHEET 5 & 6

	NOVOTNY ENGINEERING		545 Plainfield Road, Suite A Willowbrook, IL 60527 T: (630) 887.8640 F: (630) 887.0132	
	<small>Illinois Professional Design Firm No. 184-009928</small>			
F.A.U. RTE. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 13
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E51	



1"=40'
PLAN SCALE
HORZ: 1"=40'



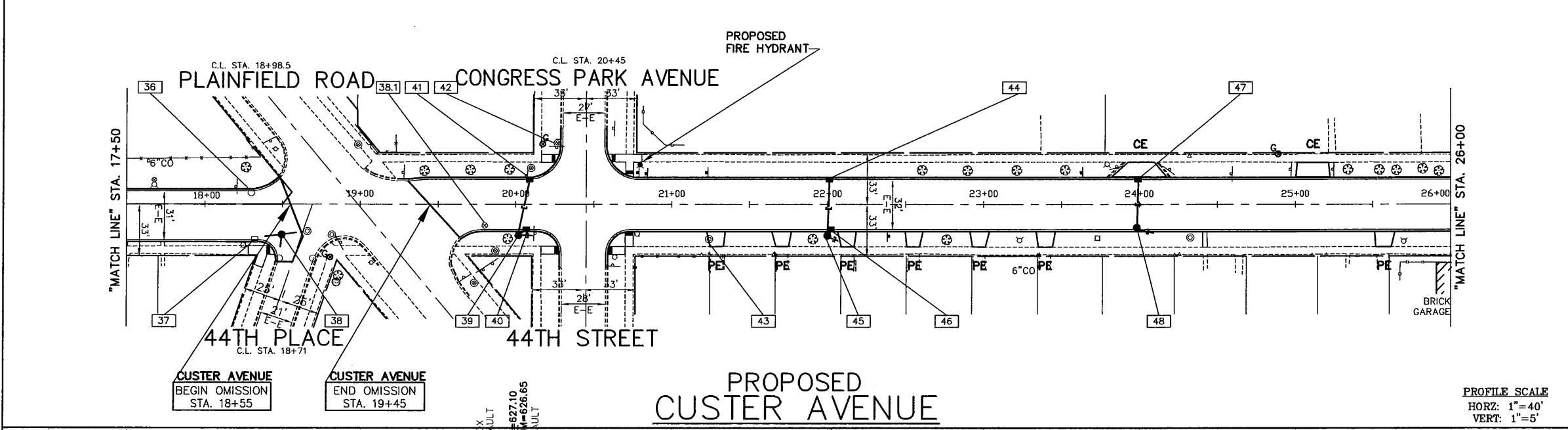
EXISTING DRAINAGE PLAN REMOVAL LEGEND
SEE SHEET 16

PROPOSED DRAINAGE PLAN LEGEND
SEE SHEET 16

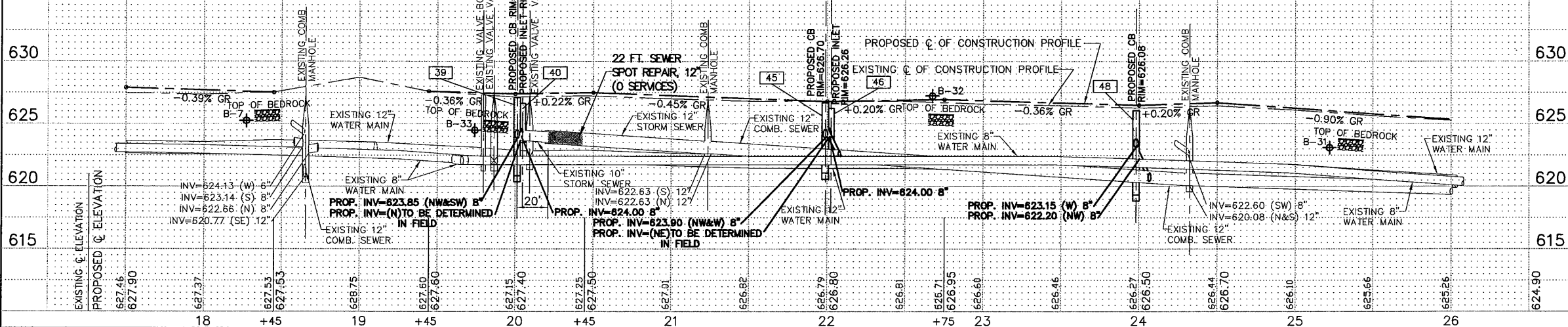
PROPOSED PIPE AND STRUCTURE SCHEDULE

- [36] CATCH BASIN TO BE ADJUSTED
RIM=627.05
- [37] INLET TO BE ADJUSTED
RIM=627.05
- [38] PROPOSED CATCH BASIN, TYPE A,
4' DIA., TYPE 1 FR. & C.L.
RIM=627.20
INV(N)=623.10, 8" W/HALF TRAP
INV(SW&SE)=623.50, 8"
15 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
8" @ 1.0%
4 C.Y. - TRENCH BACKFILL
- [38.1] VALVE BOX TO BE ADJUSTED
- [39] PROPOSED CATCH BASIN, TYPE A,
4' DIA., TYPE 1 FR. & C.L.
RIM=627.10
INV(N)=TO BE DETERMINED IN FIELD
W/HALF TRAP, 8"
INV(NW&SW)=623.85, 8"
5 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
8" @ 1.0%
1 EA. - PROPOSED STORM SEWER
CONNECTION TO EXISTING SEWER, 8"
1 C.Y. - TRENCH BACKFILL
- [40] PROPOSED INLET, TYPE A,
TYPE 1 FR. & O.L.
RIM=626.65
INV=624.00
5 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
8" @ 2.8%
4 C.Y. - TRENCH BACKFILL
- [41] PROPOSED CATCH BASIN, TYPE A,
4' DIA., TYPE 1 FR. & O.L.
RIM=626.08
INV(N)=622.20, 8" W/HALF TRAP
INV(W)=623.15, 8"
10 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
8" @ 2.1%
1 EA. - PROPOSED STORM SEWER
CONNECTION TO EXISTING SEWER, 8"
1 C.Y. - TRENCH BACKFILL
- [42] VALVE VAULT TO BE ADJUSTED
RIM=627.40
- [43] MANHOLE TO BE RECONSTRUCTED
NEW TYPE 1 FR. & C.L.
RIM=626.85
INV(N&S)=622.63, 12"
- [44] PROPOSED INLET, TYPE A,
TYPE 1 FR. & O.L.
RIM=626.26
INV=624.00
5 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
8" @ 1.0%
1 C.Y. - TRENCH BACKFILL
- [47] PROPOSED INLET, TYPE A,
TYPE 1 FR. & O.L.
RIM=626.08
INV=624.00
30 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
8" @ 2.8%
4 C.Y. - TRENCH BACKFILL
- [48] PROPOSED CATCH BASIN, TYPE A,
4' DIA., TYPE 1 FR. & O.L.
RIM=626.08
INV(N)=622.20, 8" W/HALF TRAP
INV(W)=623.15, 8"
10 FT. - STORM SEWER
(WATER MAIN QUALITY REQUIREMENTS),
8" @ 2.1%
1 EA. - PROPOSED STORM SEWER
CONNECTION TO EXISTING SEWER, 8"
1 C.Y. - TRENCH BACKFILL

NOTE: ALL INVERT AND RIM ELEVATIONS ARE PROPOSED.
NOTE: SEE SHEET 2 FOR HALF TRAP DETAIL FOR CATCH BASINS TYPE A & C



PROFILE SCALE
HORZ: 1"=40'
VERT: 1"=5'



IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM
TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FOR TYPICAL
SECTIONS OF NEW
PAVEMENT WORK
SEE SHEET 5 & 6

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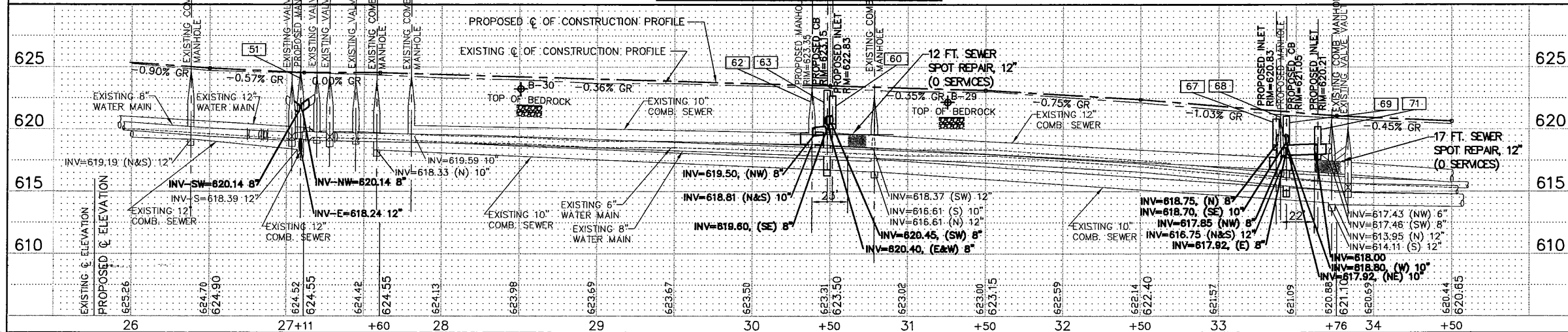
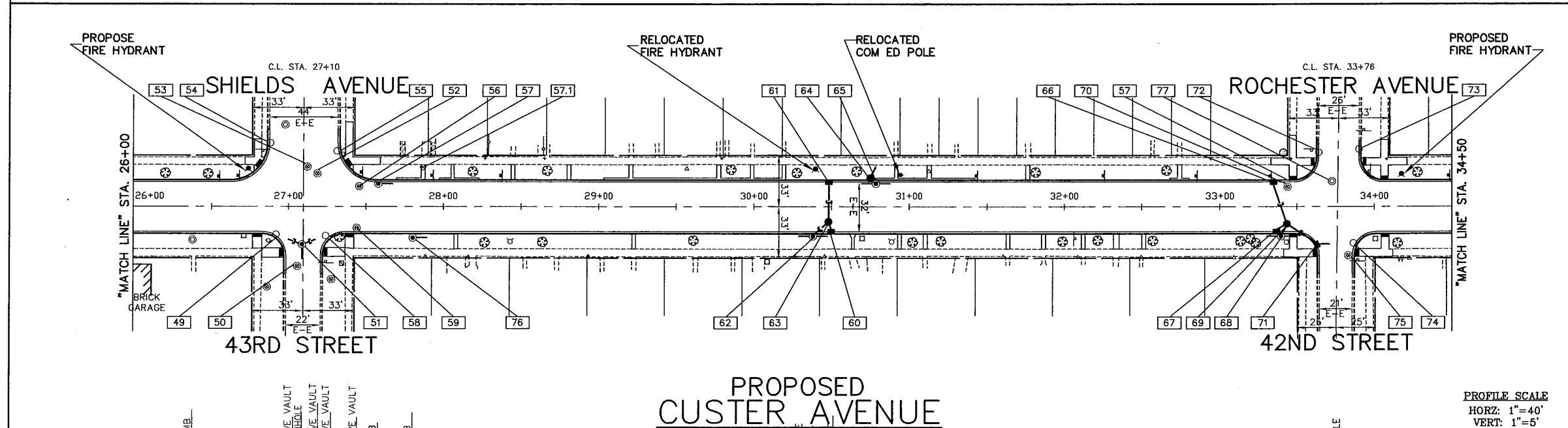
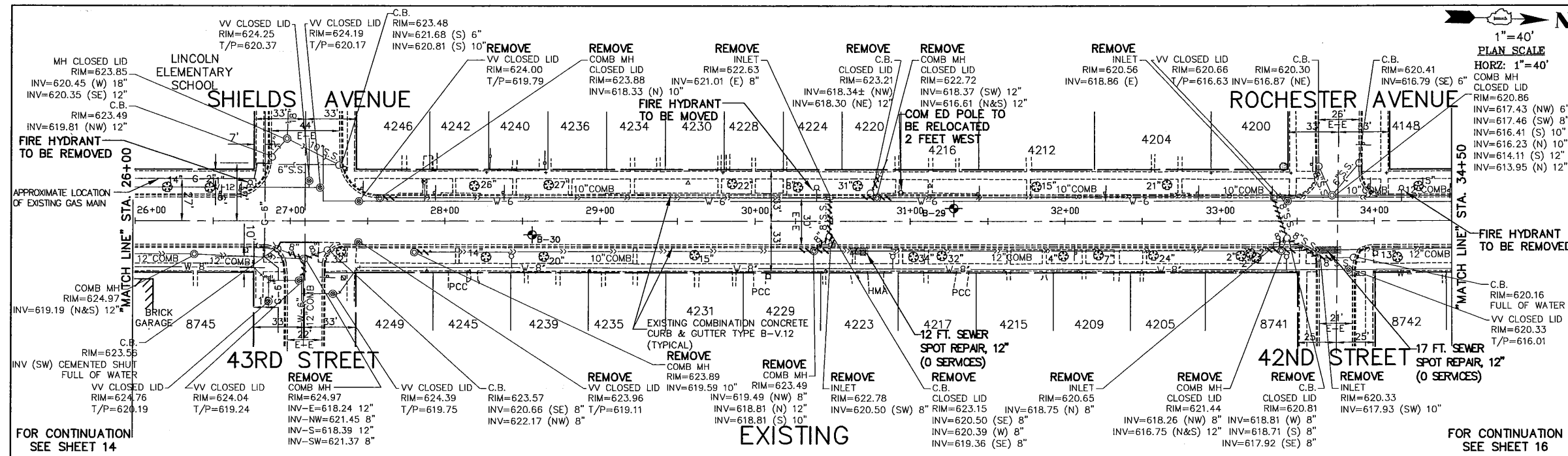
FILE NAME VILLAGE OF BROOKFIELD
FAU 2965 (CUSTER AVENUE)
FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE)
#16494 WIDENING AND RESURFACING

USER NAME =	DESIGNED - AMS	REVISED - JLC 9/29/17
PLOT SCALE =	DRAWN - JFP	REVISED - JLC 10/19/17
PLOT DATE =	CHECKED - JLC	REVISED - JLC 11/29/17
	DATE - 7/17	REVISED - JLC 12/08/17
		REVISED - JLC 2/06/18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE: CUSTER AVENUE - STA. 17+50 TO STA. 26+00
(EXISTING & PROPOSED ROADWAY DRAINAGE & UTILITY PLAN)
SCALE: AS NOTED SHEET NO. OF SHEETS STA. 17+50 TO STA. 26+00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2965	17-00131-00-RS	COOK	26	14
CONTRACT NO. 61E51			ILLINOIS FED. AID PROJECT	



FILE NAME VILLAGE OF BROOKFIELD
FAU 2965 (CUSTER AVENUE)
FAU 148B (47th STREET) TO FAP 0311 (ODDEN AVENUE)
#16494 WIDENING AND RESURFACING

DESIGNED - AMS	REVISED - JLC 9/29/17
DRAWN - JFP	REVISED - JLC 10/19/17
CHECKED - JLC	REVISED - JLC 11/29/17
DATE - 7/17	REVISED - JLC 12/08/17
	REVISED - JLC 2/06/18

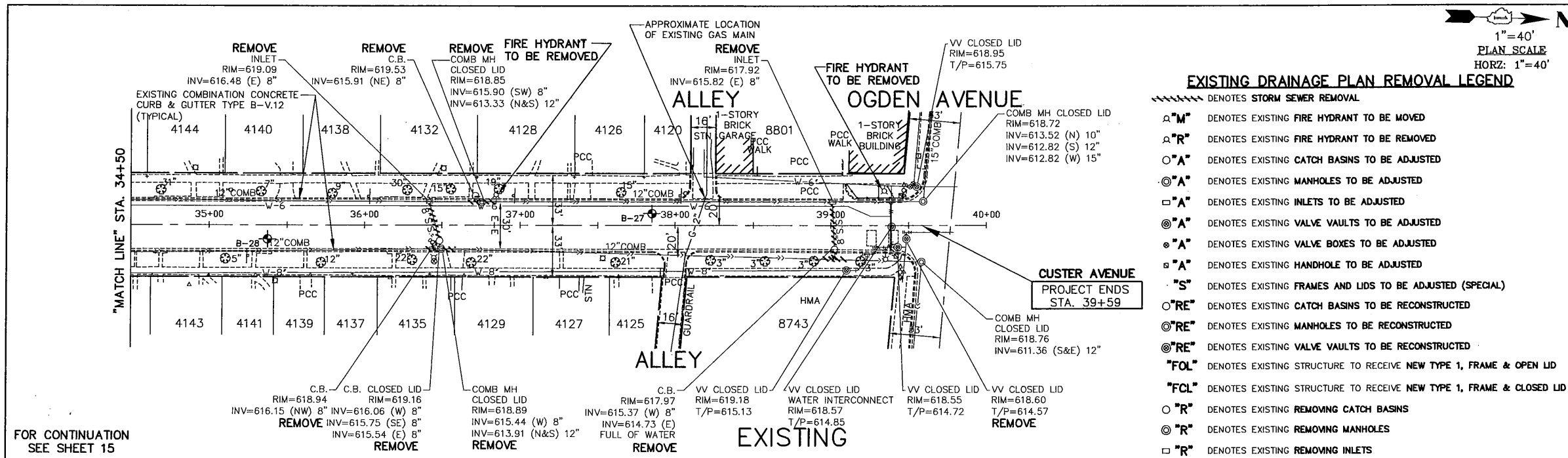
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE: CUSTER AVENUE - STA. 26+00 TO STA. 34+50
(EXISTING & PROPOSED ROADWAY DRAINAGE & UTILITY PLAN)
SCALE: AS NOTED SHEET NO. OF SHEETS STA. 26+00 TO STA. 34+50

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

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F.A.U. R.T.E. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 15
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E51	

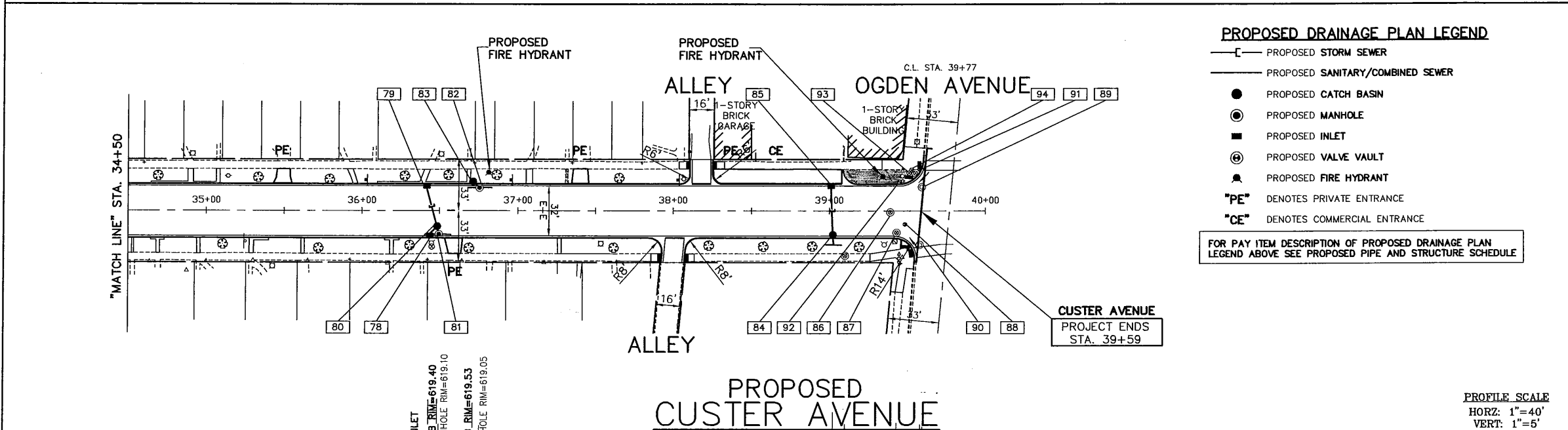


1"=40'
PLAN SCALE
HORZ: 1"=40'

40 0 40 80
GRAPHIC SCALE
IN FEET

EXISTING DRAINAGE PLAN REMOVAL LEGEND
SEE LEFT

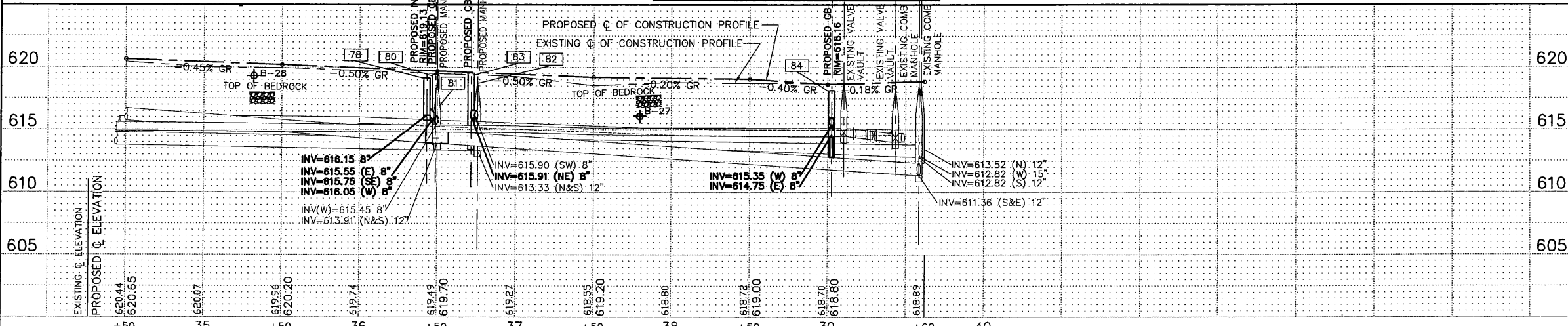
PROPOSED DRAINAGE PLAN LEGEND
SEE LEFT



PROPOSED PIPE AND STRUCTURE SCHEDULE

[78] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=619.13 INV=616.15 5 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 8.0% GR. 1 C.Y. - TRENCH BACKFILL	[83] CATCH BASIN TO BE REMOVED AND EXPLORED FOR LIVE INLET PIPES RIM=619.53 INV(NE)=615.91, 8"
[79] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=619.18 INV=616.50 23 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 2.0% GR. 3 C.Y. - TRENCH BACKFILL	[84] CATCH BASIN, TYPE A, 4' DIA., TYPE 1 FR. & O.L. RIM=618.16 INV(E)=614.75, 8" W/INTERIOR TRAP INV(W)=615.35 3 FT. - STORM SEWER (WATER MAIN QUALITY REQUIREMENTS), 8" @ 1.6% GR. 2 C.Y. - TRENCH BACKFILL
[80] PROPOSED CATCH BASIN, TYPE A, 4' DIA., TYPE 1 FR. & C.L. RIM=619.40 INV(E)=615.55, 8" W/INTERIOR TRAP INV(SE)=615.75 8" INV(W)=616.05 8" 3 FT. - STORM SEWER (WATER MAIN QUALITY REQUIREMENTS), 8" AT 3.30% GR. 1 C.Y. - TRENCH BACKFILL	[85] PROPOSED INLET, TYPE A, TYPE 1 FR. & O.L. RIM=618.16 INV=615.80 28 FT. - STORM SEWER, (WATER MAIN QUALITY REQUIREMENTS), 8" @ 1.6% GR. 2 C.Y. - TRENCH BACKFILL
[81] PROPOSED MANHOLE, TYPE A, 4' DIA., TYPE 1 FR. & C.L. RIM=619.10 INV(N&S)=613.91, 12" INV(W)=615.45, 8" 10 FT. - PVC COMBINED SEWER PIPE REPLACEMENT, 12" 3 C.Y. - TRENCH BACKFILL	[86] FRAME AND LID TO BE ADJUSTED SPECIAL RIM= 618.60
[82] PROPOSED MANHOLE, TYPE A, 4' DIA., TYPE 1 FR. & C.L. RIM=619.05 INV(N&S)=613.33, 12" INV(SW)=615.90, 8" 10 FT. - PVC COMBINED SEWER REPLACEMENT, 12" 3 C.Y. - TRENCH BACKFILL	[87] VALVE VAULT TO BE ADJUSTED RIM=618.50
	[88] REMOVE VALVE VAULT, FRAME AND LID AND REPLACE WITH VALVE BOX ADJUSTED TO FINISHED HOT-MIX ASPHALT ELEVATION. PROVIDE 4 FOOT UNOBSTRUCTED PAR IN CROSSWALK.
	[89] FRAME AND LID TO BE ADJUSTED SPECIAL TYPE 1 FR. & C.L. RIM= 618.70
	[90] MANHOLE TO BE ADJUSTED TYPE 1 FR. & C.L. RIM=618.75
	[91] VALVE VAULT TO BE ADJUSTED NEW TYPE 1 FR. & C.L. RIM=619.90
	[92] HANDHOLE TO BE ADJUSTED
	[93] VALVE BOX TO BE ADJUSTED
	[94] VALVE BOX TO BE ADJUSTED

NOTE: ALL INVERT AND RIM ELEVATIONS ARE PROPOSED.
NOTE: SEE SHEET 2 FOR HALF TRAP DETAIL FOR CATCH BASINS TYPE A & C



FILE NAME VILLAGE OF BROOKFIELD
FAU 2965 (CUSTER AVENUE)
FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE)
#16494 WIDENING AND RESURFACING

USER NAME =	DESIGNED - AMS	REVISED - JLC 9/29/17
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

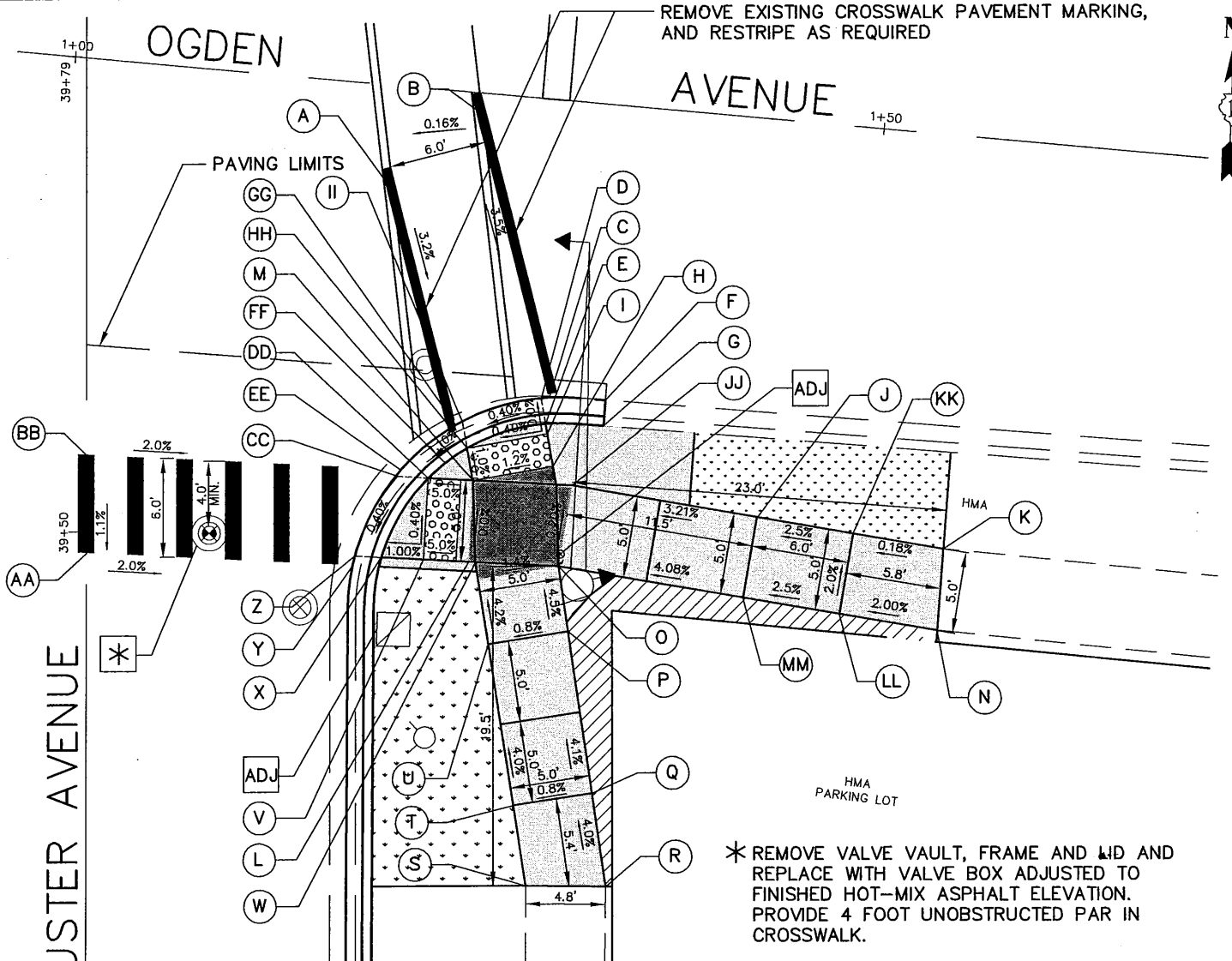
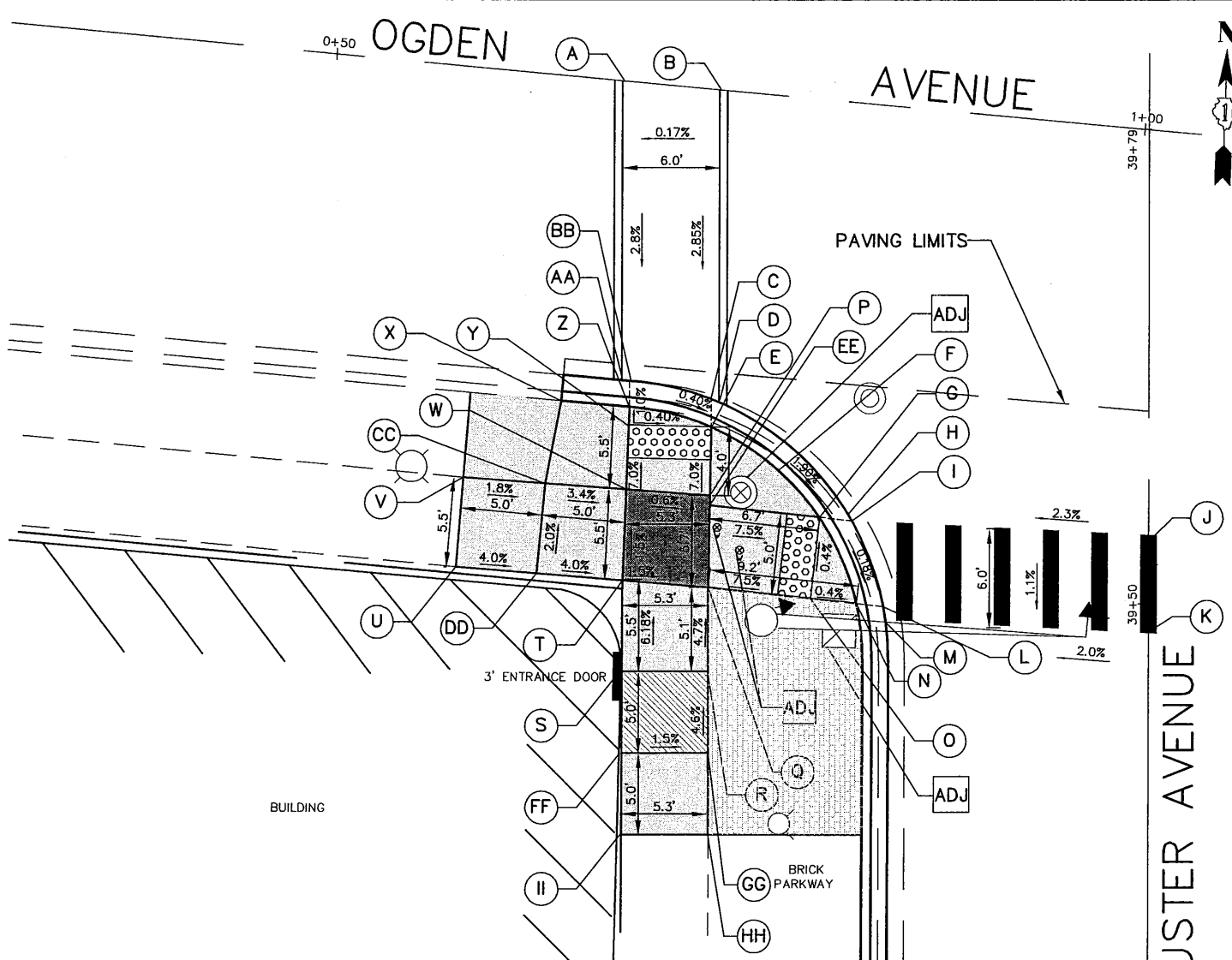
PLAN & PROFILE: CUSTER AVENUE - STA. 26+00 TO OGDEN AVENUE
(EXISTING & PROPOSED ROADWAY DRAINAGE & UTILITY PLAN)

SCALE: AS NOTED | SHEET NO. OF SHEETS | STA. 26+00 TO STA. 39+62

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

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Illinois Professional Design Firm No. 184-00929

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2965	17-00131-00-RS	COOK	26	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E51	



**SOUTHWEST CORNER
CUSTER AVENUE AND IL ROUTE 34 (OGDEN AVENUE)**

STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION		
A	39+81.8	31.8' L	(619.17')	S	39+45.7	32.0' L	619.35'
B	39+81.2	25.8' L	(619.18')	T	39+51.5	32.0' L	619.01'
C	39+62.3	26.4' L	618.64'	U	39+52.0	42.0' L	MEET EXIST (619.41')
D	39+62.1	26.0' L	618.64'	V	39+57.6	41.6' L	MEET EXIST (619.19')
E	39+60.8	26.4' L	618.62'	W	39+57.2	31.8' L	618.93'
F	39+57.6	22.4' L	618.80'	X	39+62.3	36.2' L	MEET EXIST (618.82')
G	39+55.3	20.0' L	618.43'	Y	39+60.8	31.8' L	618.65'
H	39+55.5	17.6' L	618.45'	Z	39+62.0	31.8' L	618.64'
I	39+55.0	17.3' L	618.45'	AA	39+63.6	32.5' L	618.66'
J	39+55.2	0.0' L	618.85'	BB	39+63.6	31.8' L	618.66'
K	39+49.2	0.0' L	618.78'	CC	39+57.4	37.0' L	619.10
L	39+49.7	16.3' L	618.46'	DD	39+52	37.0' L	619.21
M	39+49.1	16.0' L	618.46'	EE	39+55.8	26.4' L	618.91
N	39+49.8	18.2' L	618.44'	FF	39+40.7	32.0' L	619.28
O	39+50.3	20.5' L	618.45'	GG	39+40.7	26.7' L	619.20
P	39+56.5	27.0' L	618.90'	HH	39+36	26.7' L	MEET EXIST (619.16')
Q	39+51.0	27.0' L	618.93'	II	39+36	32.0' L	MEET EXIST (619.30')
R	39+45.7	27.0' L	619.17'				

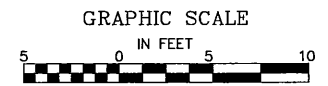
**SOUTHEAST CORNER
CUSTER AVENUE AND IL ROUTE 34 (OGDEN AVENUE)**

STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION		
A	39+72.0	18.5' R	(619.24')	S	39+28.3	27.1' R	MEET EXIST (619.32')
B	39+76.7	24.0' R	(619.23')	T	39+33.0	26.0' R	619.13'
C	39+57.8	28.5' R	618.57'	U	39+43.0	24.6' R	618.73'
D	39+57.8	28.0' R	618.56'	V	39+48.0	20.5' R	618.50'
E	39+56.2	28.1' R	618.56'	W	39+47.7	24.0' R	618.52'
F	39+57.9	32.5' R	MEET EXIST (618.59')	X	39+48.1	18.3' R	618.47'
G	39+56.0	32.5' R	MEET EXIST (618.72')	Y	39+47.6	15.7' R	618.47'
H	39+53.5	28.6' R	618.58'	Z	39+48.1	15.8' R	618.47'
I	39+55.6	28.2' R	618.56'	AA	39+48.0	0.0' R	618.78'
J	39+50.6	41.0' R	618.96'	BB	39+54.0	0.0' R	618.85'
K	39+49.0	52.4' R	MEET EXIST (619.12')	CC	39+53.4	19.0' R	618.49'
L	39+48.0	23.5' R	(618.52')	DD	39+53.2	21.0' R	618.49'
M	39+53.0	23.8' R	(618.52')	EE	39+53.9	19.4' R	618.50'
N	39+45.8	37.0' R	MEET EXIST (619.33')	FF	39+54.2	22.1' R	618.61'
O	39+47.7	29.0' R	(618.59')	GG	39+56.2	22.6' R	618.54'
P	39+44.0	29.6' R	(618.77')	HH	39+55.0	23.2' R	618.54'
Q	39+34.0	31.0' R	(619.18')	II	39+56.5	23.2' R	618.54'
R	39+28.3	32.0' R	MEET EXIST (619.39')	JJ	39+52.5	30.0' R	618.59
				KK	39+49.5	47.0' R	619.11
				LL	39+44.5	46.3' R	619.21
				MM	39+45.6	40.3' R	619.06

LEGEND

- PROPOSED SIDE CURB
- EXISTING LENGTH/ELEVATION (XX.XX')
- SLOPE (%)
- PROPOSED UPPER LANDING
- PROPOSED SIDEWALK
- PROPOSED TURNING SPACE
- PROPOSED TOPSOIL & SOD
- PROPOSED HOT-MIX ASPHALT
- PROPOSED DETECTABLE WARNINGS
- REMOVE AND RESET BRICK PAVERS

* REMOVE VALVE VAULT, FRAME AND L&D AND REPLACE WITH VALVE BOX ADJUSTED TO FINISHED HOT-MIX ASPHALT ELEVATION. PROVIDE 4 FOOT UNOBSTRUCTED PAR IN CROSSWALK.



IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FILE NAME VILLAGE OF BROOKFIELD
FAU 2965 (CUSTER AVENUE)
FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE)
#16494 WIDENING AND RESURFACING

USER NAME =	DESIGNED - AMS	REVISED - JLC 9/29/17
PLOT SCALE =	DRAWN - JFP	REVISED - JLC 10/19/17
PLOT DATE =	CHECKED - JLC	REVISED - JLC 11/29/17
	DATE - 7/17	REVISED - JLC 12/08/17
		REVISED - JLC 2/06/18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CUSTER AVENUE AND IL ROUTE 34 (OGDEN AVENUE)
ADA RAMP DETAILS**

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

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

F.A.U. RTE. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 17
CONTRACT NO. 61E51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

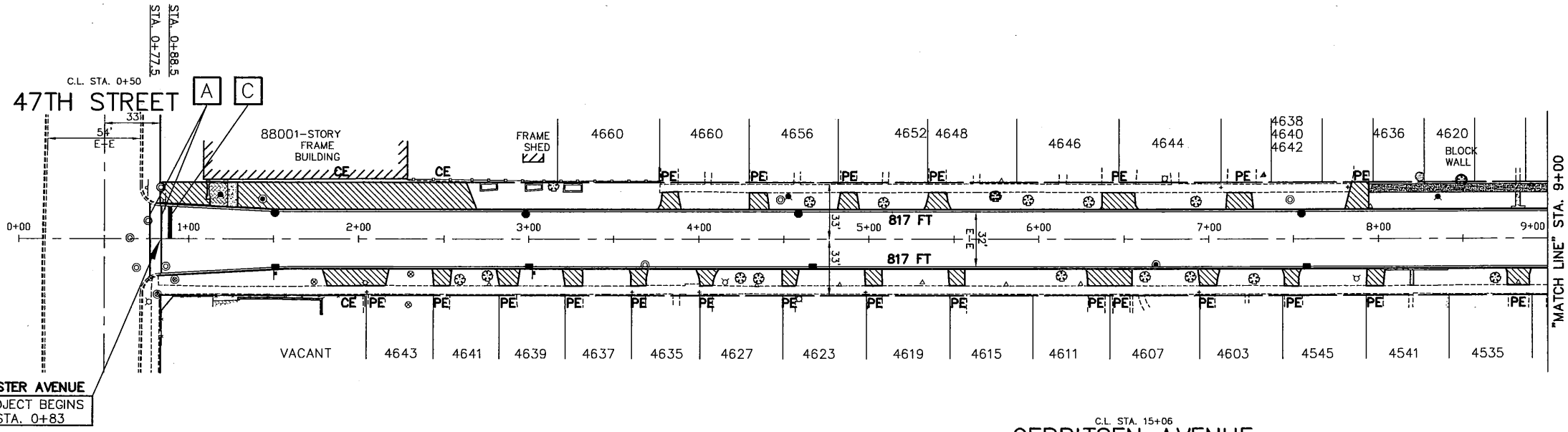
1"=40'
 PLAN SCALE
 HORZ: 1"=40'



THERMOPLASTIC PAVEMENT MARKING CODE

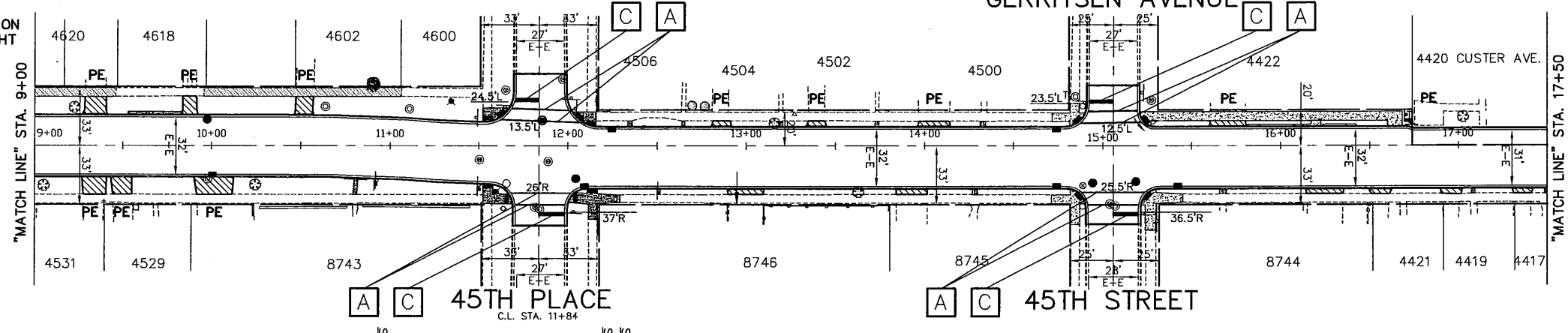
- A) PEDESTRIAN CROSSWALK LINE -
SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- B) SCHOOL CROSSWALK LINE -
SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12"
- C) STOP BAR -
SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24"

NOTE:
 SHORT-TERM PAVEMENT MARKING IS PROPOSED ON THE MILLED PAVEMENT, NEW BINDER AND ON THE NEW SURFACE. SEE ARTICLE 703.04 OF THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".



FOR CONTINUATION
 SEE BELOW LEFT

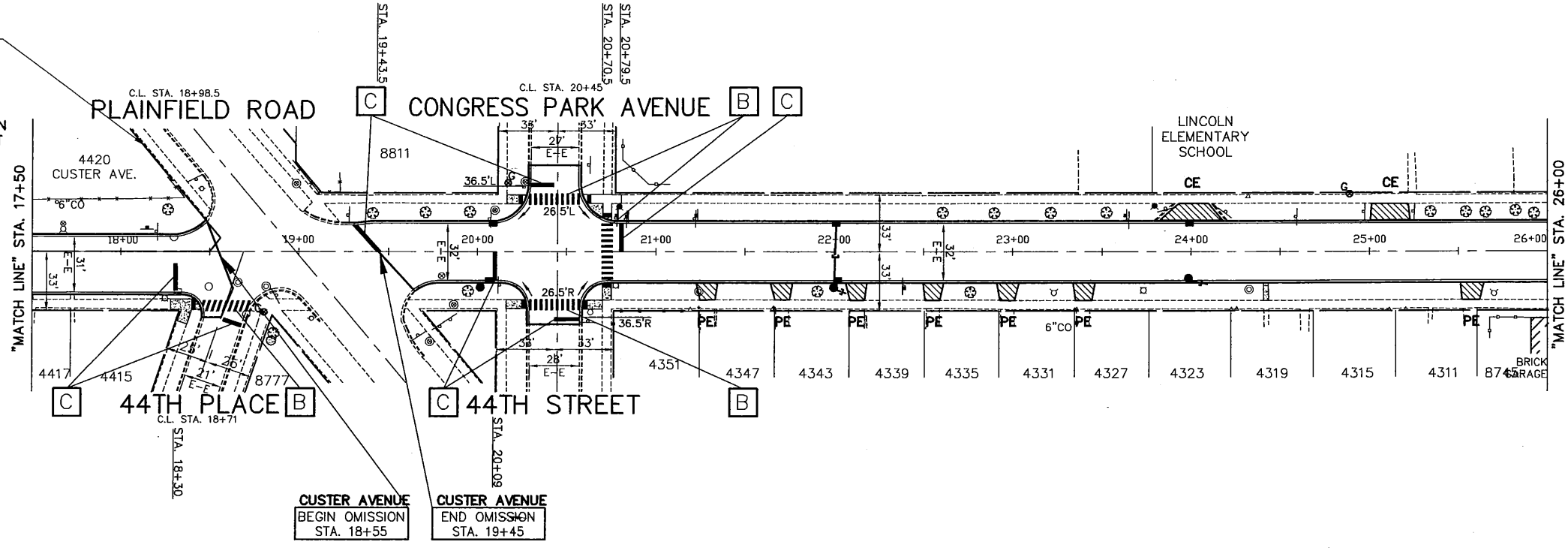
FOR CONTINUATION
 SEE ABOVE RIGHT



FOR CONTINUATION
 SEE BELOW LEFT

NEW SIGN PANEL ON
 NEW POST 2' B/C,
 WITH "NO PARKING
 BETWEEN SIGNS",
 R7-12 POSTED.

FOR CONTINUATION
 SEE ABOVE RIGHT



FOR CONTINUATION
 SEE SHEET 19

FOR PAVEMENT MARKING DETAILS
 SEE SHEET 25
 FOR DISTRICT DETAIL TC-13

IMPORTANT!

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
 545 Plainfield Road, Suite A
 Willowbrook, IL 60527
 T: (630) 887.8640
 F: (630) 887.0132
 Illinois Professional Design Firm No. 184-000728

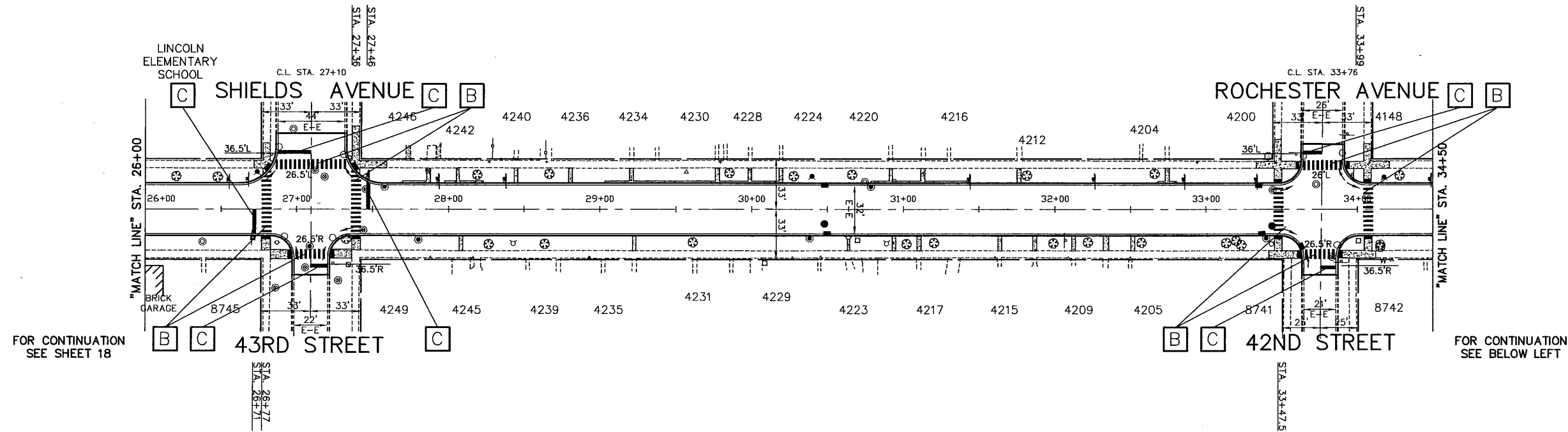
FILE NAME VILLAGE OF BROOKFIELD FAU 2965 (CUSTER AVENUE) FAU 1488 (47th STREET) TO FAP 0311 (OGDEN AVENUE) #16494 WIDENING AND RESURFACING	USER NAME =	DESIGNED - AMS DRAWN - JFP CHECKED - JLC DATE - 7/17	REVISED - JLC 9/29/17 REVISED - JLC 10/19/17 REVISED - JLC 11/29/17 REVISED - JLC 12/08/17 REVISED - JLC 2/06/18
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE: CUSTER AVENUE - 47TH STREET TO STA. 9+00
 (PAVEMENT MARKING)
 SCALE: AS NOTED | SHEET NO. OF SHEETS | STA. 0+83 TO STA. 9+00

F.A.U. R.T.E. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 18
CONTRACT NO. 61E51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

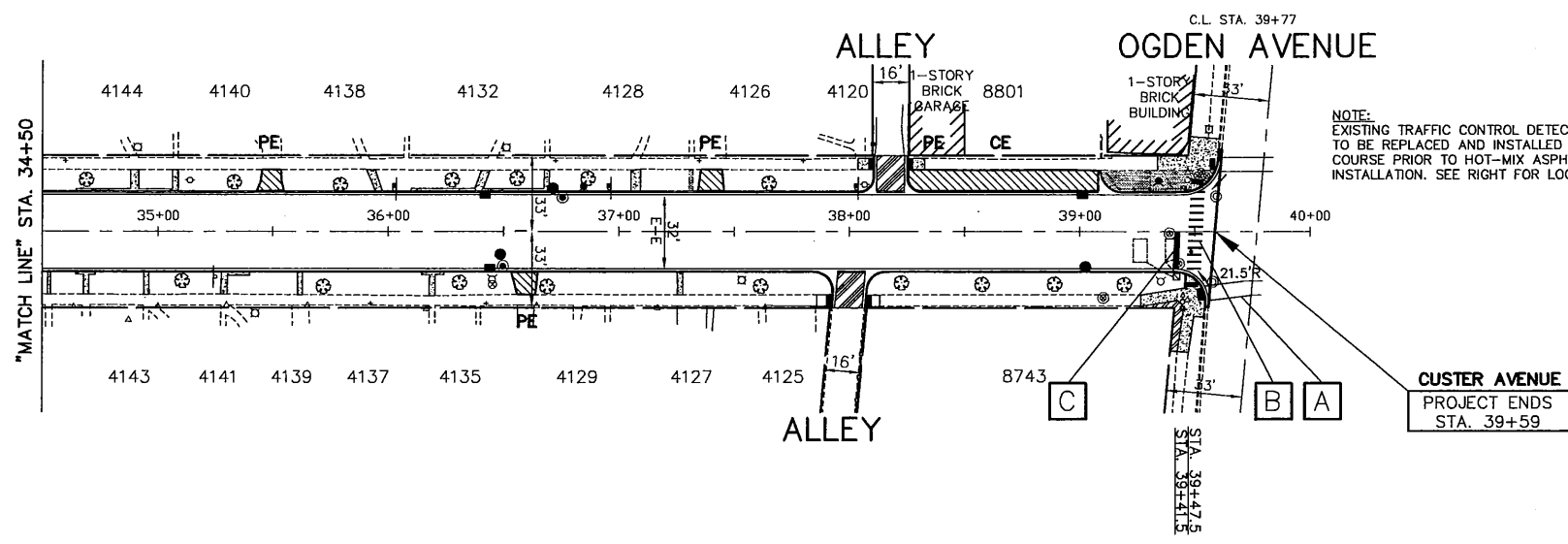
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 PLAN SCALE
 HORZ: 1"=40'



FOR CONTINUATION
 SEE SHEET 18

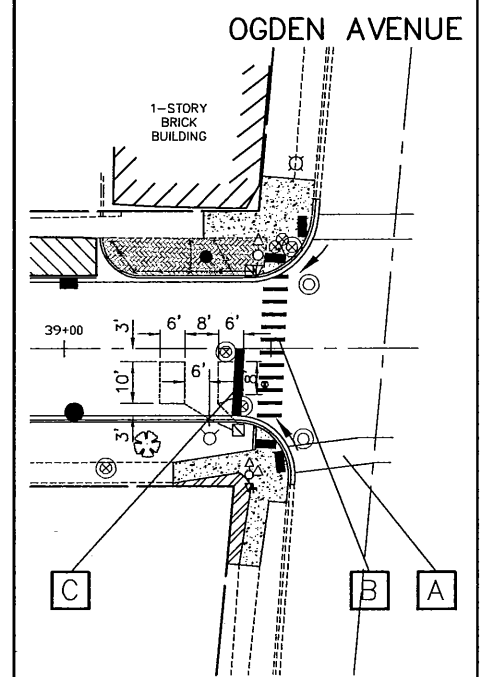
FOR CONTINUATION
 SEE BELOW LEFT

FOR CONTINUATION
 SEE ABOVE RIGHT



- THERMOPLASTIC PAVEMENT MARKING CODE**
- A) PEDESTRIAN CROSSWALK LINE -
 SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6"
 - B) SCHOOL CROSSWALK LINE -
 SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12"
 - C) STOP BAR -
 SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24"

NOTE:
 SHORT-TERM PAVEMENT MARKING IS PROPOSED ON THE MILLED
 PAVEMENT, NEW BINDER AND ON THE NEW SURFACE. SEE
 ARTICLE 703.04 OF THE LATEST EDITION OF THE "STANDARD
 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".



DETAIL-DETECTOR LOOP REPLACEMENT AT OGDEN AVENUE
 N.T.S.

FOR PAVEMENT MARKING DETAILS
 SEE SHEET 25
 FOR DISTRICT DETAIL TC-13

IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
 ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM
 TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
 545 Plainfield Road, Suite A
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 Illinois Professional Design Firm No. 18C-009728

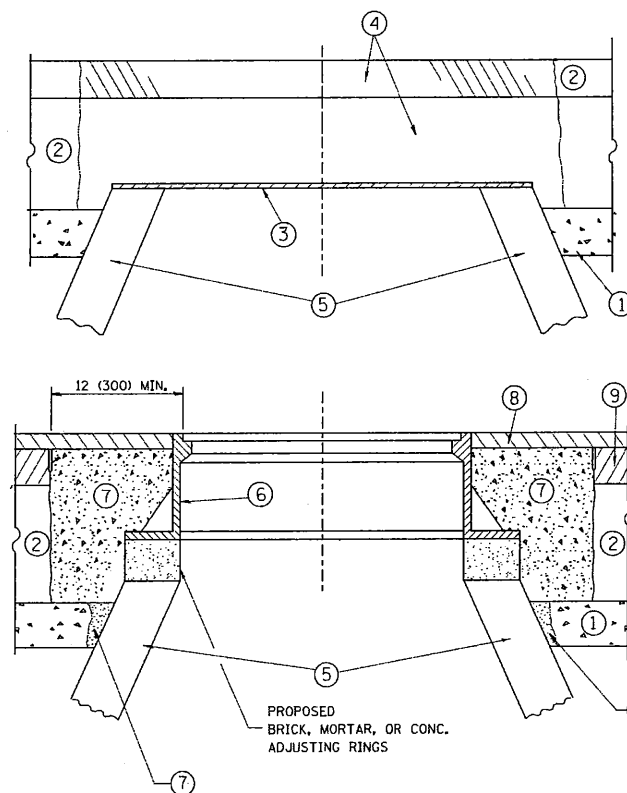
CUSTER AVENUE

FILE NAME VILLAGE OF BROOKFIELD FAU 2965 (CUSTER AVENUE) FAU 148B (47th STREET) TO FAP 0311 (OGDEN AVENUE) #16494 WIDENING AND RESURFACING	USER NAME = DESIGNED - AMS DRAWN - JFP CHECKED - JLC DATE - 7/17	REVISIONS REVISED - JLC 9/29/17 REVISED - JLC 10/19/17 REVISED - JLC 11/19/17 REVISED - JLC 12/08/17 REVISED - JLC 2/06/18
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE: CUSTER AVENUE - 47TH STREET TO STA. 9+00
 (PAVEMENT MARKING)
 SCALE: AS NOTED | SHEET NO. OF SHEETS | STA. 0+83 TO STA. 9+00

F.A.U. RTE. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 19
CONTRACT NO. 61E51				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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.

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 1½ (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

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.

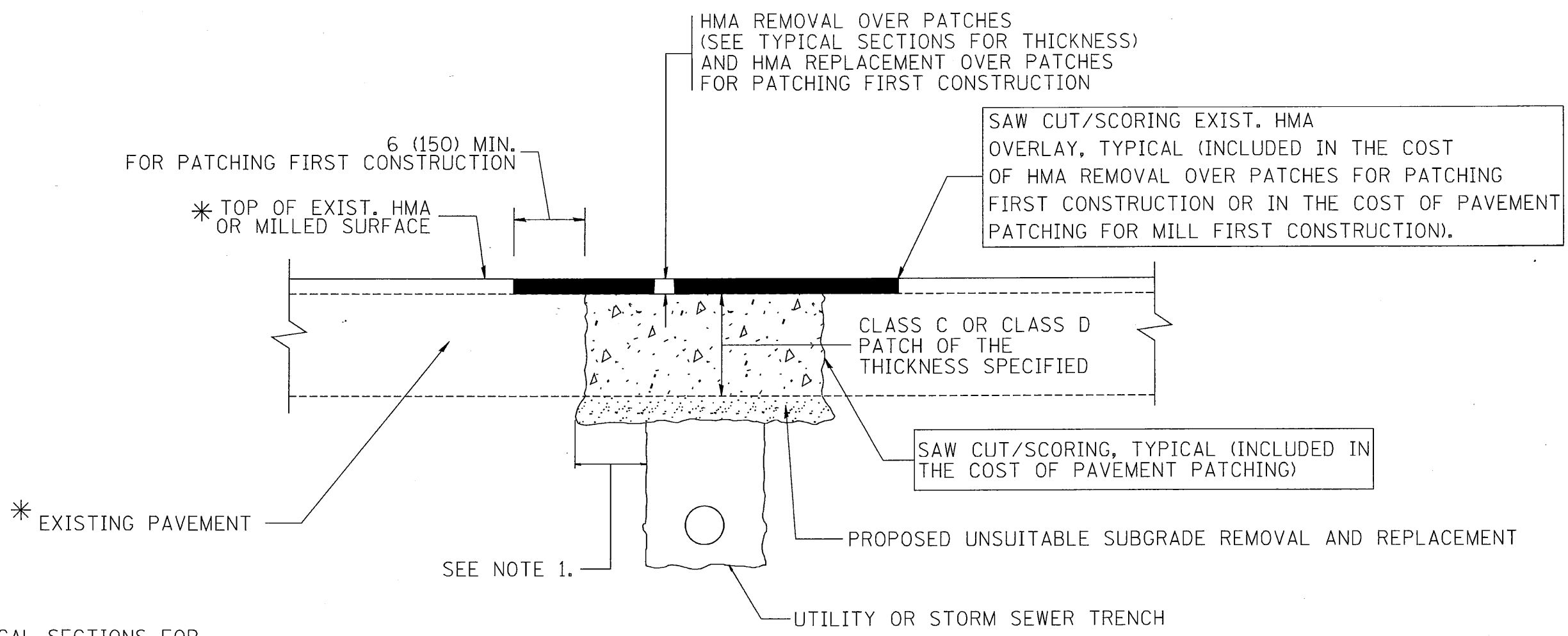
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = beurdj	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
cs:\p-work\psidot\baurdj\bd0186315\bd08.dgn		DRAWN -	REVISED - R. BORO 01-01-07
		CHECKED -	REVISED - R. BORO 03-09-11
		DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING		F.A.U. RTE. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 20
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD600-03 (BD-8) CONTRACT NO. 61E51		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT						



* 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 4 1/2 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.

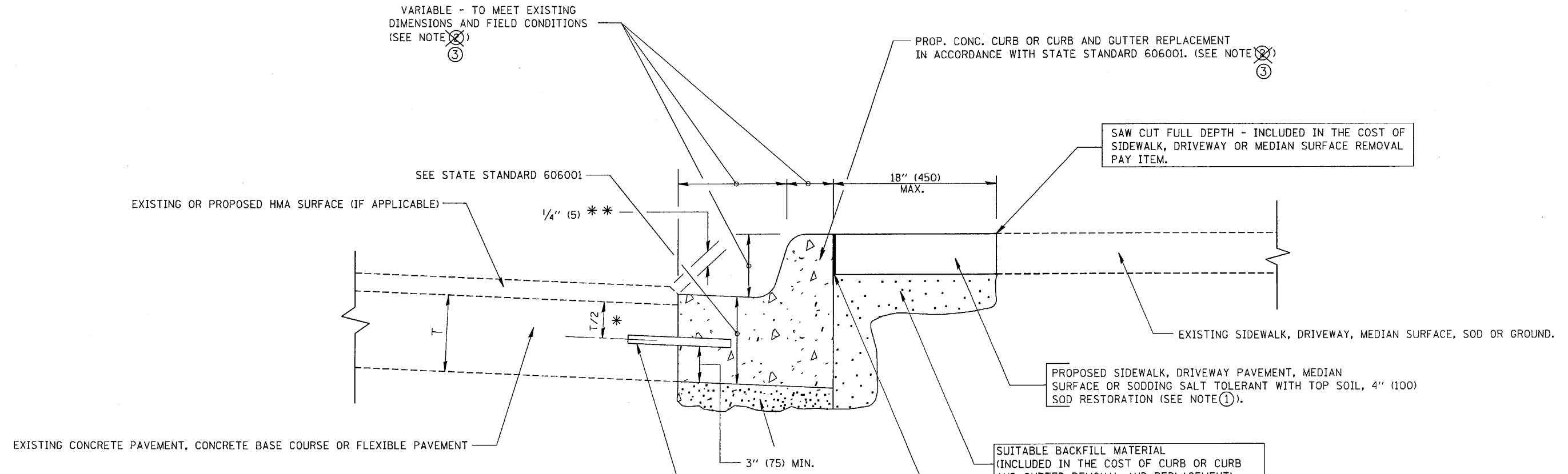
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - R. BORO 01-01-07
		CHECKED -	REVISED - R. BORO 09-04-07
		DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 21
BD400-04 (BD-22)			CONTRACT NO. 61E51	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
 - ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.
- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
 - ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
 - ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
 - ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
 - ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

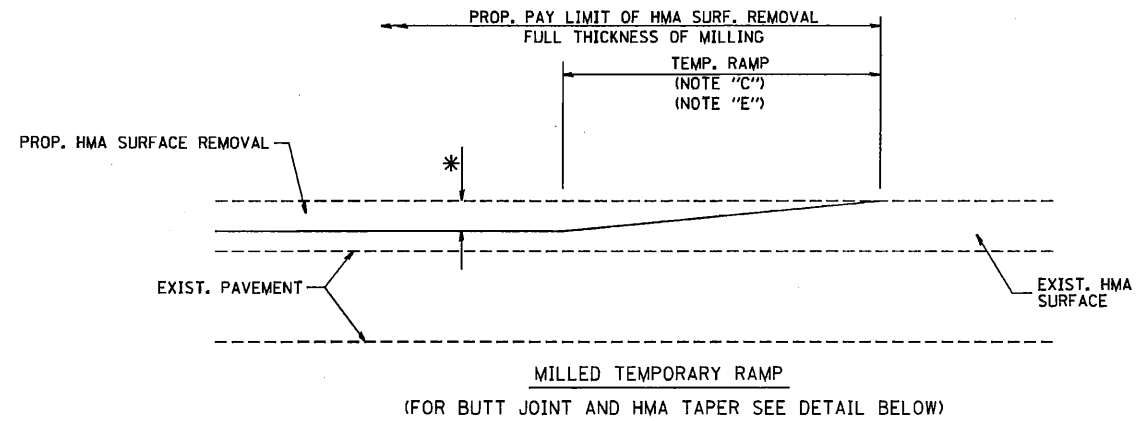
- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.
- REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
 THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

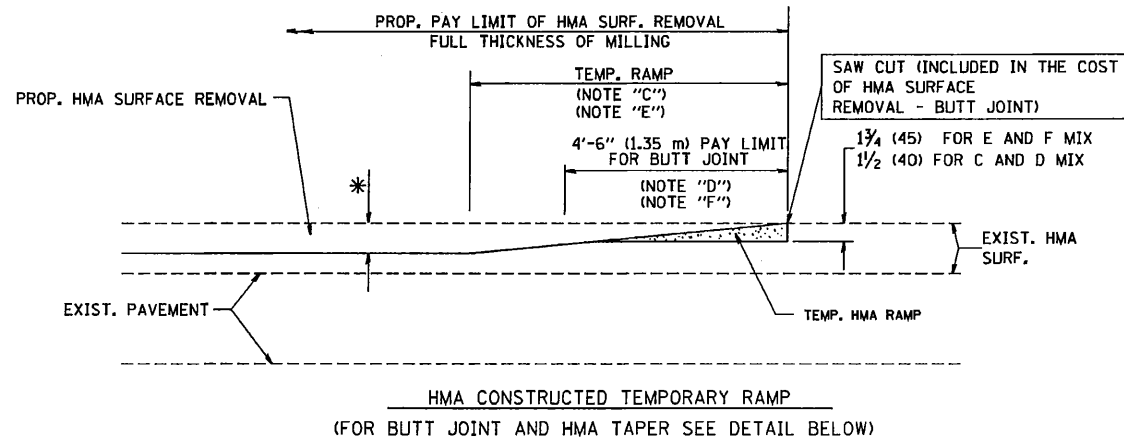
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

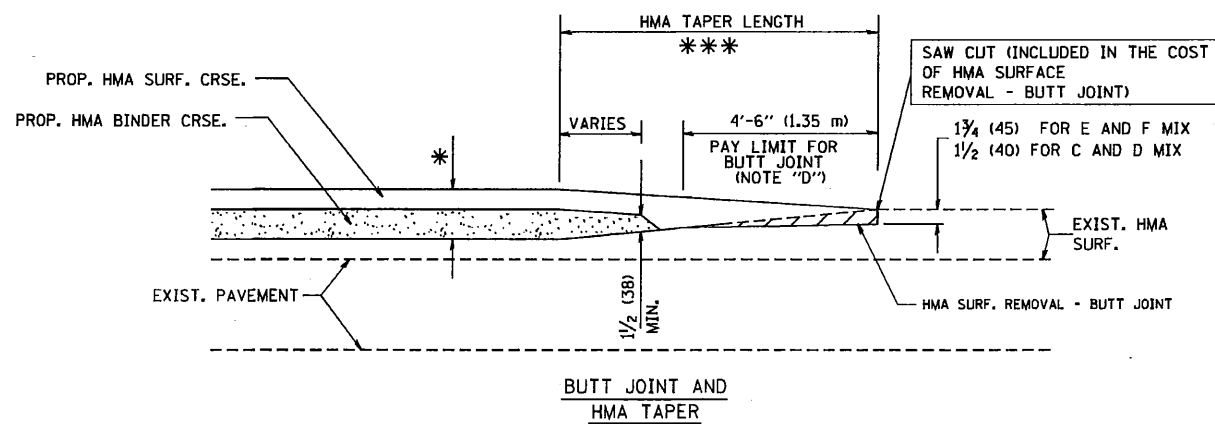
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		CHECKED -	REVISED - M. GOMEZ 01-22-01			BD600-06 (BD-24)		CONTRACT NO. 61E51			
		DATE - 03-11-94	REVISED - R. BORO 12-15-09			SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	



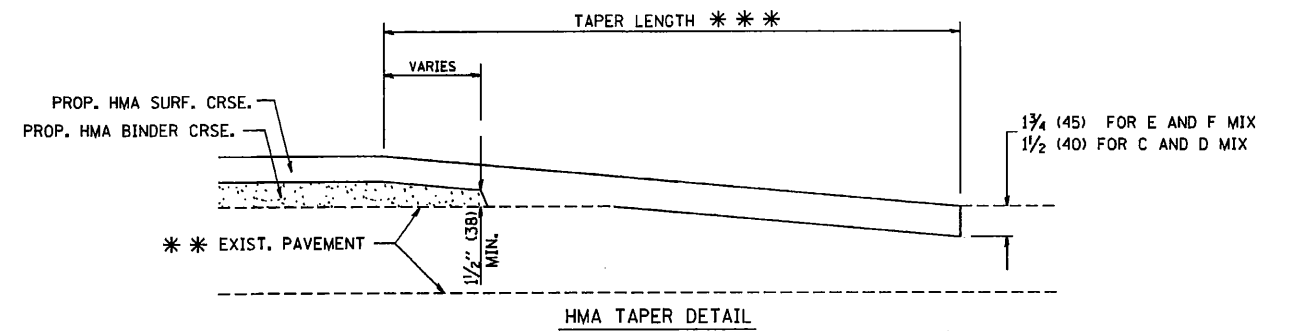
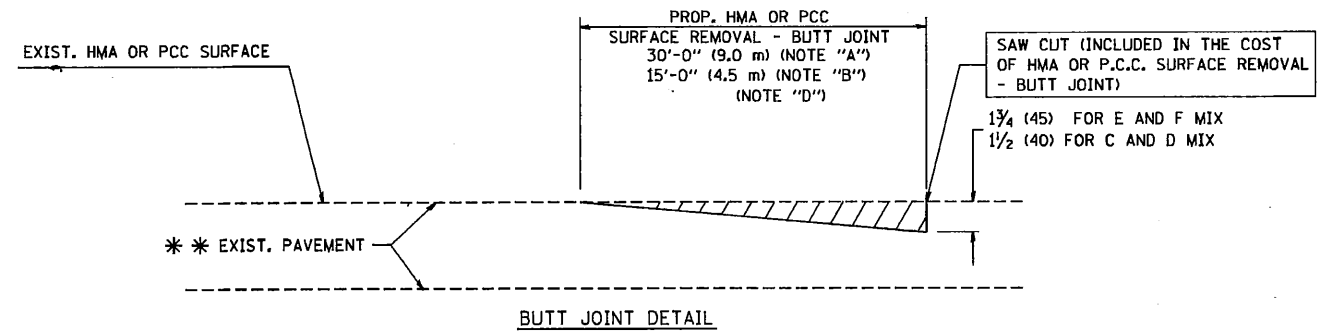
OPTION 1



**OPTION 2
TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



**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.

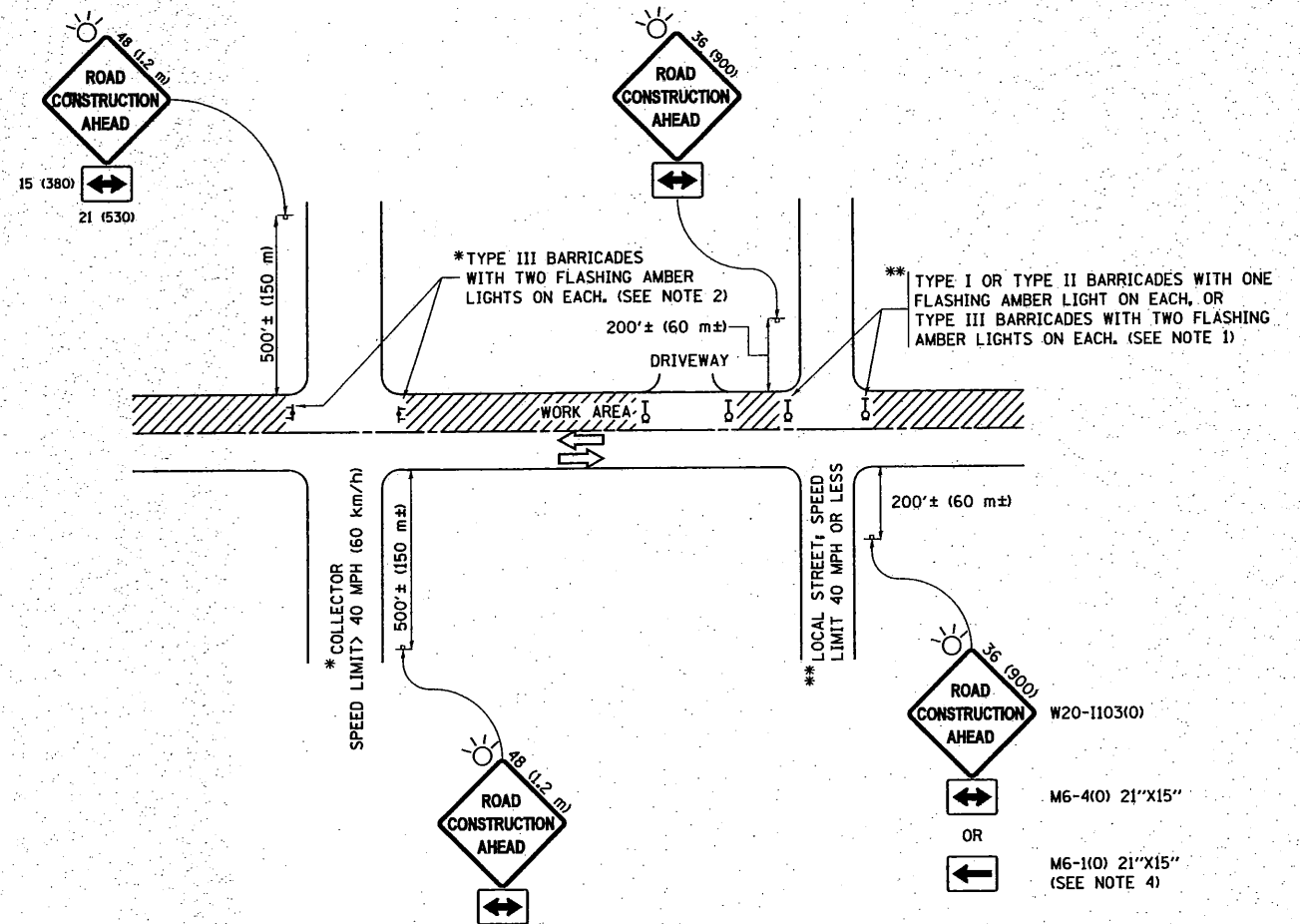
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		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.J. RTE. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 23
BD400-05 BD32		CONTRACT NO. 61E51		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

- 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:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 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).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

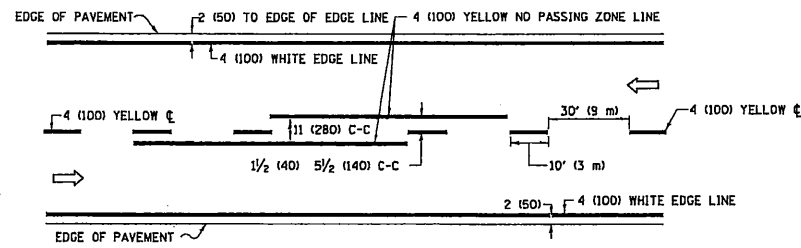
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	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

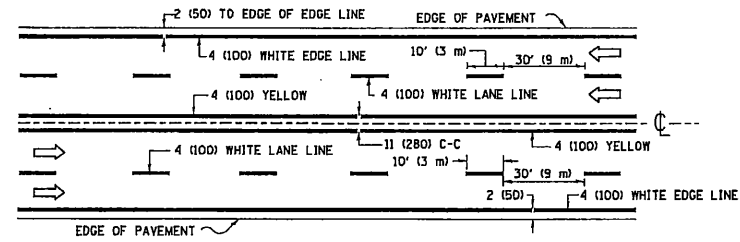
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

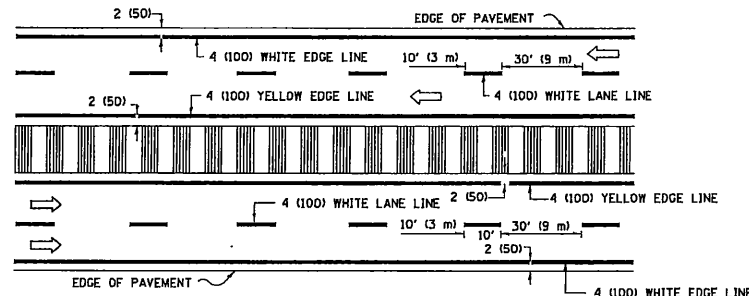
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2965	17-00131-00-RS	COOK	26	24
TC-10			CONTRACT NO. 61E51	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

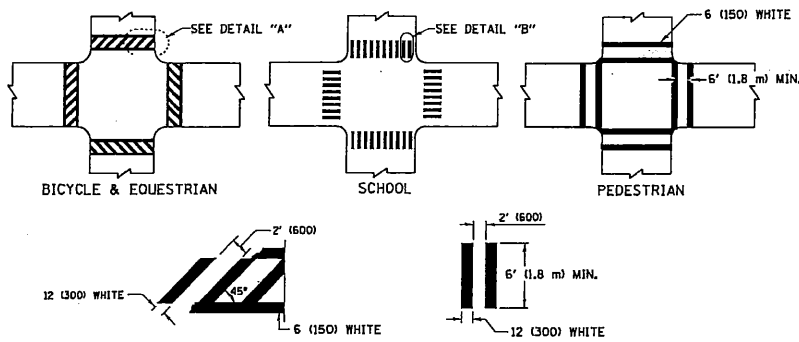


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

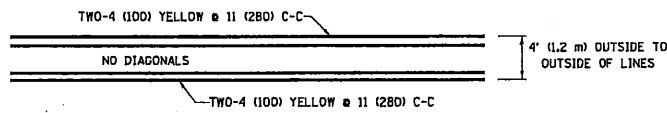


DETAIL "A"

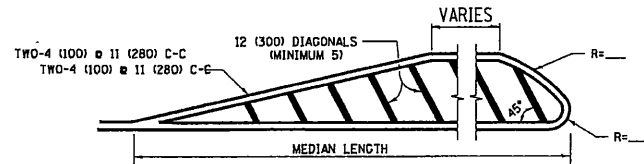
DETAIL "B"

TYPICAL CROSSWALK MARKING

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



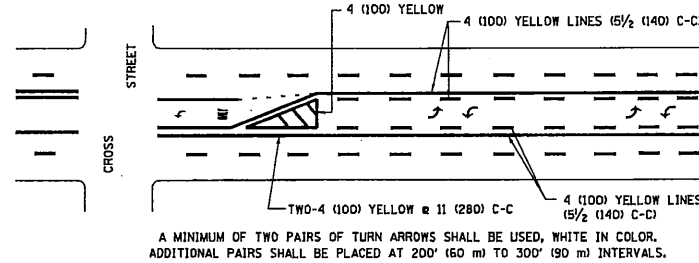
4' (1.2 m) WIDE MEDIANS ONLY



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))

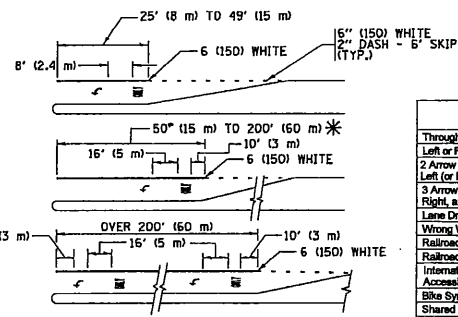
MEDIANS OVER 4' (1.2 m) WIDE



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

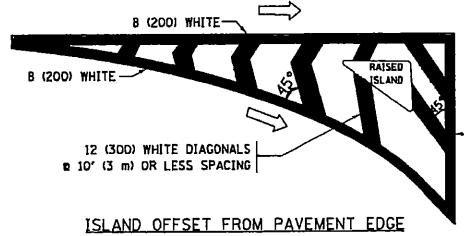


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

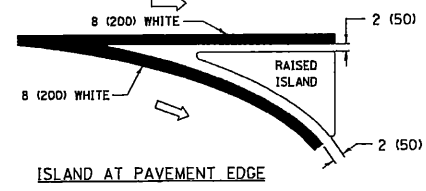
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

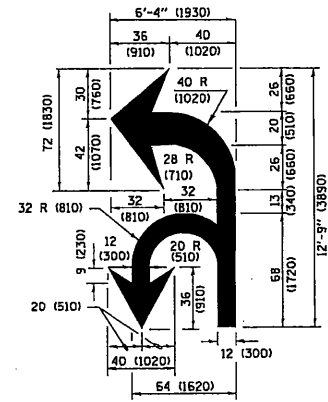


ISLAND OFFSET FROM PAVEMENT EDGE

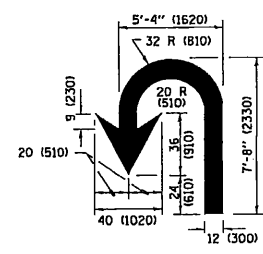


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

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	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	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; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE. SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN & 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; WHITE; WHITE	11 (280) C-C FOR THE DOUBLE LINE. SEE TYPICAL PAINTED MEDIAN MARKING. ONE WAY TRAFFIC
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 78000! 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 78000.

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

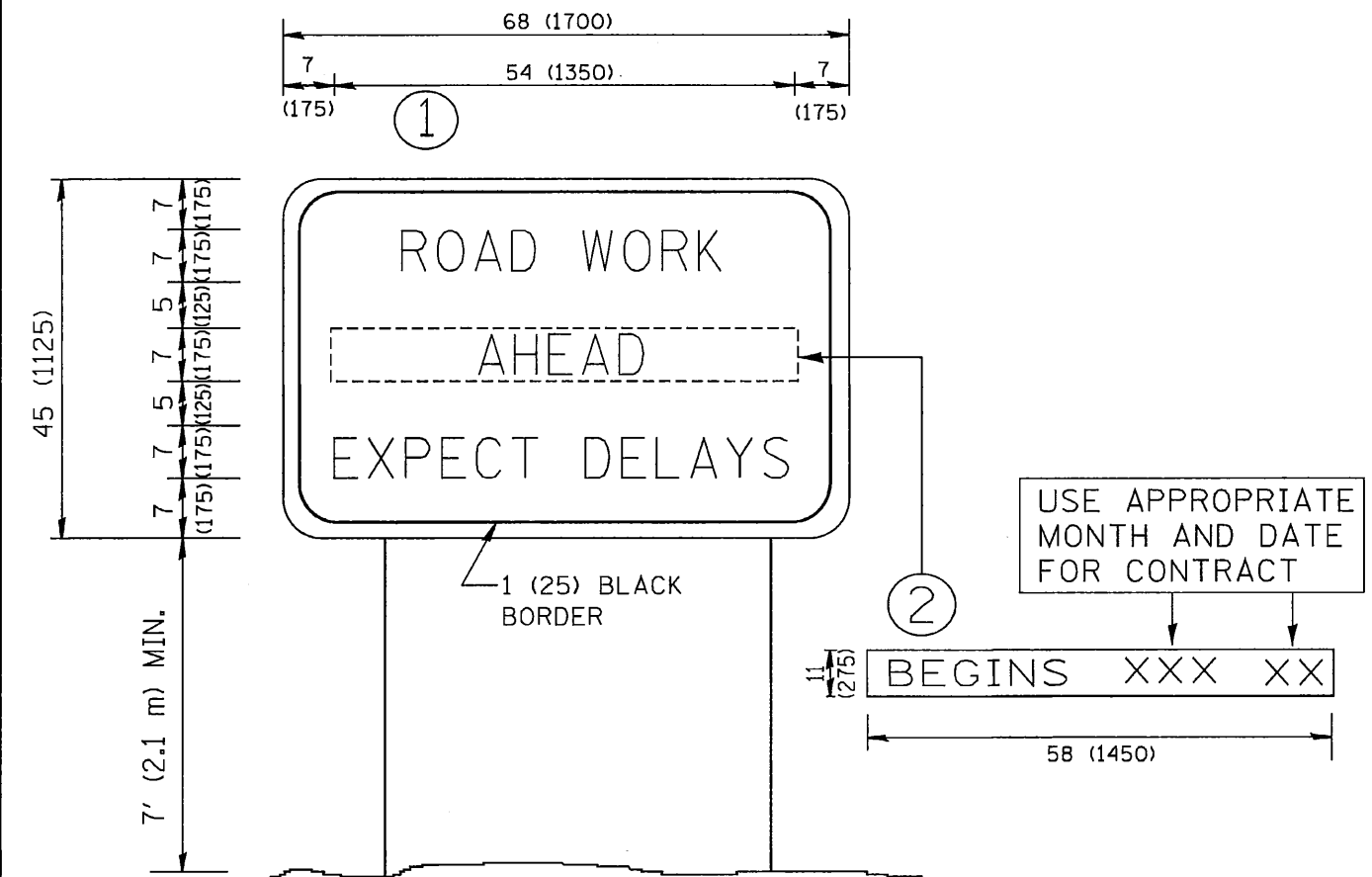
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Default	PLOT SCALE = 50.0000 / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 4/13/2016		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. R.T.E. 2965	SECTION 17-00131-00-RS	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 25
TC-13		CONTRACT NO. 61E51		
ILLINOIS FED. AID PROJECT				



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.

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	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97				2965	17-00131-00-RS	COOK	26	26
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99				TC-22		CONTRACT NO. 61E51		
	DATE -	REVISED - C. JUICIUS 01-31-07	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				PKU1(100)				
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			