

01-30-15 LETTING ITEM 012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. 0118 (LAKE AVENUE)
WEST VILLAGE LIMITS TO HUNTLEY ROAD
F.A.U. 3870 (LAKEWOOD ROAD)
ACKMAN ROAD TO HALIGUS ROAD
BICYCLE LANE IMPROVEMENTS
SECTION NO. 13-00012-00-BT
PROJECT NO. M-4003(217)
VILLAGE OF LAKEWOOD
McHENRY COUNTY
C-91-393-13

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 0118	13-00012-00-BT	McHENRY	86	1
		ILLINOIS	CONTRACT NO. 61A78	

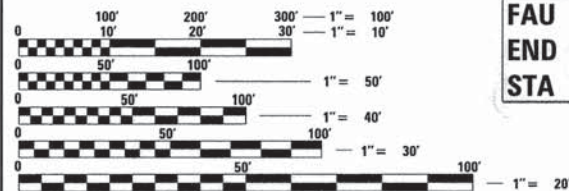
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA

LAKEWOOD ROAD
CURRENT ADT = 1,150 (2009)
DESIGN ADT = 3,000 (2040)
SPEED LIMIT = 30 MPH
MAJOR COLLECTOR

LAKE AVENUE
CURRENT ADT = 4,850 (2009)
DESIGN ADT = 10,000 (2040)
SPEED LIMIT = 25 MPH
MAJOR COLLECTOR



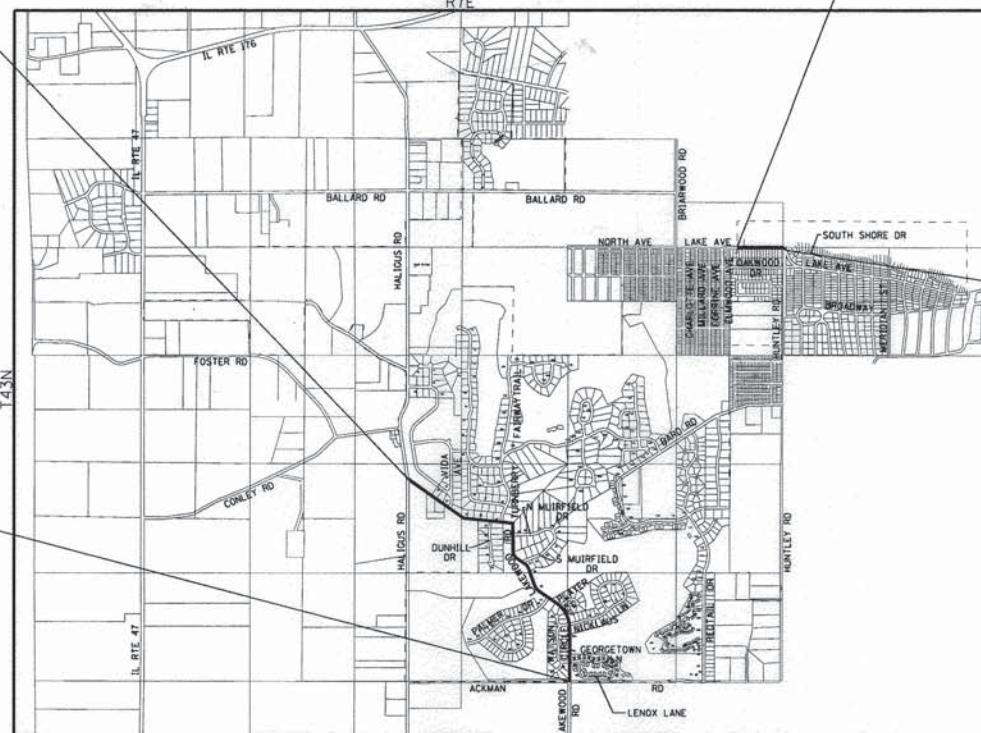
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FAU 3870 (LAKEWOOD ROAD)
END IMPROVEMENTS
STA 83+42

FAU 3870 (LAKEWOOD ROAD)
BEGIN IMPROVEMENTS
STA 10+82

FAU 0118 (LAKE AVENUE)
BEGIN IMPROVEMENTS
STA 101+00

FAU 0118 (LAKE AVENUE)
END IMPROVEMENTS
STA 114+18



GRAFTON TOWNSHIP
GROSS LENGTH OF IMPROVEMENT = 8,578 OR 1.62 MILES
NET LENGTH OF IMPROVEMENT = 8,578 OR 1.62 MILES



LOCATION OF SECTION INDICATED THUS: - [shaded area] -

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J.U.L.I.E. DESIGN STAGE REQUEST
DIG. No. A1341590 & A1341608



CONTACT JULIE AT 811 OR 800-892-0123
WITH THE FOLLOWING:

COUNTY = McHENRY
CITY-TWNSHP. = GRAFTON TOWNSHIP
SEC. & 1/4 SEC. NO. = SEC 11 SW 1/4 & SEC 14 NW 1/4 & NE 1/4
48 HOURS (2 working days) BEFORE YOU DIG

CONTRACT NO. 61A78

BAXTER & WOODMAN
Consulting Engineers



PROJECT MANAGER
"LICENSE EXPIRES 11-30-2015"

PROJECT ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED October 17, 2014
Catherine Patermy
VILLAGE OF LAKEWOOD, VILLAGE MANAGER

PASSED NOVEMBER 3, 2014
Christopher Holt
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW November 3, 2014
John Fortman
DEPUTY DIRECTOR OF
HIGHWAYS, REGION 1 ENGINEER

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OF THE STATE OF ILLINOIS

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-002232 - EXPIRES 4/30/15
 PROGRAM ENGINEER: FAWAD AQUEEL, P.E. 847-705-4021 SCHAUMBURG, IL

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), "THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", "THE MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- THE LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE DEPARTMENT DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS.
- THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER IF DEEMED NECESSARY.
- ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE AS TEMPORARY ACCESS.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE VILLAGE WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE ENGINEER TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SANDBAG SHALL BE PLACED ACROSS EACH BOTTOM RAIL.
- THE CONTRACTOR SHALL CONTACT THE LOCAL AGENCY MATERIAL INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY CONCRETE OR HOT-MIX ASPHALT MATERIAL DELIVERIES.
- DETECTABLE WARNINGS SHALL BE CONSTRUCTED WITH THE INSTALLATION OF A CAST-IN-PLACE 24"x48" NOMINAL PANEL WIDTH; 'ARMOR-TILE' AS MANUFACTURED BY 'ENGINEERED PLASTICS, INC.', 'DURATEK TILES' MANUFACTURED BY DETECTILE CO. OR 'TACTILE WARNING SURFACE UNIT' MANUFACTURED BY ADA SOLUTIONS. THE DOMES LOCATED ON THE PANEL SHALL PARALLEL THE PAVEMENT CROSS WALK WITH THE CLOSEST EDGE LOCATED AT THE BACK OF CURB. THE PANEL COLOR SHALL BE SELECTED BY THE ENGINEER. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- IN AREAS WHERE THE EXISTING DRIVEWAY, SIDEWALK, OR CURB AND GUTTER IS TO BE REMOVED AND REPLACED, THE REMOVAL AND DISPOSAL OF ANY ADDITIONAL MATERIAL REQUIRED TO ESTABLISH THE PROPOSED DRIVEWAY, SIDEWALK, OR CURB AND GUTTER SUBGRADE ELEVATION SHALL BE INCLUDED IN THE REMOVAL PAY ITEMS.
- THE CURB SHALL BE TAPERED TO THE GUTTER IN A FIVE (5) FOOT LENGTH WHEREVER THE CURB TERMINATES, WITH AN EXPANSION JOINT PLACED AT THE START OF THE TAPER.
- TRENCH BACKFILL FOR THIS PROJECT SHALL CONSIST OF CRUSHED CA-6 AND SHALL BE COMPACTED BY METHOD 1 ONLY.
- ALL POSTS, RAILROAD TIES, AND DECORATIVE TIMBER IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND RELOCATED AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR WHEN REMOVING THESE ITEMS TO PRESERVE THEM FROM HARM. ITEMS NOT RELOCATED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
- PRIOR TO CONSTRUCTION OF ANY PROPOSED UTILITIES, THE CONTRACTOR SHALL EXCAVATE AND LOCATE THE EXISTING UTILITIES TO VERIFY THEIR LOCATION, SIZE, AND DEPTH TO INSURE THAT GRADE CONFLICTS WILL NOT OCCUR. THE COST OF THIS EXPLORATION SHALL BE PAID FOR AS EXPLORATION TRENCH, SPECIAL.
- THE COST OF MAKING ANY SEWER CONNECTIONS TO EXISTING DRAINAGE STRUCTURES OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW SEWER OR STRUCTURE. ANY ADDITIONAL STORM SEWER PIPE REQUIRED TO MAKE THE CONNECTION SHALL BE OF THE SAME SIZE AND MATERIAL TYPE AS THE EXISTING STORM SEWER AND SHALL BE INCLUDED IN THE COST OF THE SEWER OR STRUCTURE.
- IF ANY STORM SEWER LATERALS ARE FOUND DURING CONSTRUCTION AND ARE NOT IDENTIFIED ON THE PLANS, THEY SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM AND INCLUDED IN THE COST OF THE STORM SEWER CONSTRUCTION.
- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.
- A PORTABLE BATHROOM(S) SHALL BE PLACED ON THE JOB SITE(S) AND RELOCATED WHEN NECESSARY SO IT IS ACCESSIBLE TO WORKERS. IF WORK IS OCCURRING AT SEVERAL LOCATIONS, ONE PORTABLE BATHROOM SHALL BE PLACED AT EACH LOCATION WITHIN A REASONABLE DISTANCE FROM THE WORK AS DETERMINED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- ALL CRACKS AND JOINTS SHALL BE CLEANED PRIOR TO FILLING THEM. THIS WORK SHALL BE INCLUDED IN THE ITEM "MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS."
- DURING CONSTRUCTION, THE CONTRACTOR WILL BE PERMITTED TO LIMIT PARKING IN SPACES ALONG LAKE AVENUE IN ORDER TO COMPLETE CONSTRUCTION OPERATIONS. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE CRYSTAL LAKE PARK DISTRICT A MINIMUM OF 72 HOURS IN ADVANCE. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PLACE ADVANCE SIGNS TO ALERT RESIDENTS AND BEACH PATRONS OF THE CONSTRUCTION WORK. THE PLACEMENT OF THESE SIGNS SHALL TAKE PLACE 48 HOURS IN ADVANCE IN ORDER TO ALLOW SUFFICIENT TIME FOR RESIDENTS AND GENERAL PUBLIC TO REVISE THEIR PARKING PATTERNS. PARKING SHALL BE ACCESSIBLE BY THE END OF EACH WORKING DAY. THE COST OF SIGNS AND BARRICADES ARE INCLUDED IN THE APPLICABLE TRAFFIC CONTROL PAY ITEMS.
- ON RURAL PAVEMENTS BEING RESURFACED, MAILBOX TURNOUTS SHALL BE PROVIDED AT EACH EXISTING MAILBOX FOR THE FULL WIDTH OF THE PROPOSED AGGREGATE SHOULDER UP TO 6 INCHES FROM THE FACE OF THE EXISTING MAILBOX. A 2' WIDE MAILBOX TURNOUT SHALL BE PROVIDED ADJACENT TO PROPOSED BIKE LANE AS SHOWN ON THE DETAIL. MAILBOX TURNOUTS SHALL BE AT LEAST 2 INCHES THICK AND SHALL BE PAID FOR AS HMA SURFACE COURSE.
- 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 SHALL NOT EXCEED 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. A MAXIMUM GRADE DIFFERENCE OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H), AS DETERMINED BY THE ENGINEER.

23. THE CONTRACTOR SHALL PROVIDE SOIL TESTING AND PROFESSIONAL ENGINEERING SERVICES AS NECESSARY FOR DISPOSAL OF MATERIAL WHICH INCLUDES: CERTIFYING SOILS ARE UNCONTAMINATED AND WITHIN PH OF 6.25 TO 9.0, COMPLETION OF IEPA FORM LPC-663 BY A LICENSED P.E. AND ADDITIONAL ANALYTICAL TESTING REQUIRED BY THE DISPOSAL SITE AND/OR ENGINEER. THE ENGINEER SHALL BE PROVIDED COPIES OF ALL TEST RESULTS AND CERTIFICATIONS (INCLUDING LPC-663). BASED ON PRELIMINARY SCREENINGS OF THE AREA, THE PROJECT SITE, TO THE OWNERS KNOWLEDGE, HAS NOT BEEN USED FOR COMMERCIAL OR INDUSTRIAL PURPOSES AND PH LEVELS ARE ACCEPTABLE AND AVAILABLE UPON REQUEST. IF MATERIAL IS TAKEN TO AN IEPA APPROVED FILL SITE, THE CONTRACTOR IS RESPONSIBLE FOR THE TESTING REQUIRED BY THE SITE. PID OR FID READINGS ARE NOT ACCEPTABLE RESULTS FOR CLASSIFYING THE MATERIAL. IF REJECTED, ANALYTICAL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 669.08. IF MATERIAL IS UNCONTAMINATED, IT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE APPROPRIATE PAY ITEM. IF THE MATERIAL IS CLASSIFIED AS NON-SPECIAL WASTE, THE CONTRACTOR SHALL REUSE THE MATERIAL ON SITE AT NO ADDITIONAL COST. IF ON-SITE USE IS NOT FEASIBLE, DISPOSAL SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04. ALL ADDITIONAL CERTIFICATIONS AND ANALYSIS COMPLETED BY THE CONTRACTOR SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

24. ALL OPEN TRENCHES SHALL BE FILLED AT THE END OF EACH DAY.

25. SAW CUTS MADE IN THE EXISTING PAVEMENT TO REMAIN FOR CONSTRUCTING UTILITIES SHALL BE INCLUDED IN CLASS D PATCHES.

26. FULL-DEPTH SAW CUTS SHALL BE MADE ALONG THE EXISTING EDGE OF PAVEMENT AT THE APPROPRIATE DISTANCE FROM CENTERLINE, AS DETERMINED BY THE ENGINEER, TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE EXISTING AND PROPOSED PAVEMENTS AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

27. THE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING, INCLUDING PLANTS, SHRUBS, TREES, FENCES, ETC. THAT ARE NOT DIRECTLY IMPACTED BY PAVEMENT, STORM SEWER, OR DITCH CONSTRUCTION.

28. ALL MAILBOXES WITHIN THE PROJECT LIMITS SHALL BE WITHIN COMPLIANCE WITH LOCAL US POST OFFICE STANDARDS BEFORE COMPLETION OF THE PROJECT.

29. THE CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE PARKING BLOCKS IN CONFLICT WITH THE PROPOSED WORK ON LAKE AVENUE. THIS WORK SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH.

30. INCREASE APPLICATION RATE OF MULCH METHOD 3A TO 3500 LB/ACRE ON SLOPES EXCEEDING 2H:1V OR AS RECOMMENDED BY THE MANUFACTURER.

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-08 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424016-02 MID-BLOCK CURB RAMPS FOR SIDEWALKS
- 442001-04 CLASS A PATCHES
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542401-01 METAL END SECTION FOR PIPE CULVERTS
- 602001-02 CATCH BASIN TYPE A
- 602011-02 CATCH BASIN TYPE C
- 602301-04 INLET - TYPE A
- 602401-03 MANHOLE TYPE A
- 602601-03 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 604001-04 FRAME AND LIDS TYPE 1
- 604036-03 GRATE TYPE 8
- 606001-06 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606101-04 TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
- 606201-02 TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630201-06 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701701-09 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-04 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- B.L.R. 24-2 MAILBOX TURNOUT FOR LOCAL ROADS

COMMITMENTS

THERE ARE CURRENTLY NO COMMITMENTS FOR THIS PROJECT.

INDEX OF SHEETS

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- 71 ARTERIAL ROAD INFORMATION SIGN (TC-22)
- 72 - 82 CROSS SECTIONS: LAKEWOOD ROAD
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BENCHMARKS (NAVD 88)

- BM*2 RAILROAD SPIKE IN POWER POLE WITH LIGHT ON WEST SIDE OF HALIGUS ROAD AT LAKEWOOD ROAD. ELEV = 904.92
- BM*5 RAILROAD SPIKE IN POWER POLE ON SOUTH SIDE OF LAKEWOOD ROAD AT VIDA AVENUE. ELEV = 890.13
- BM*8 RAILROAD SPIKE IN POWER POLE AT SOUTHWEST CORNER OF LAKEWOOD ROAD AND DUNHILL DRIVE. ELEV = 898.18
- BM*10 FIRE HYDRANT ON SOUTHWEST FLANGE BOLT AT NORTHEAST CORNER OF LAKEWOOD ROAD AND NORTH MUIRFIELD DRIVE. ELEV = 897.83
- BM*13 FIRE HYDRANT ON SOUTHEAST FLANGE BOLT AT SOUTHEAST OF LAKEWOOD ROAD AND SOUTH MUIRFIELD DRIVE. ELEV = 894.21
- BM*16 RAILROAD SPIKE IN POWER POLE AT SOUTHEAST CORNER OF LAKEWOOD ROAD AND PALMER DRIVE. ELEV = 893.22
- BM*19 FIRE HYDRANT NORTH FLANGE BOLT AT NORTHEAST CORNER OF LAKEWOOD ROAD AND NICKLAUS DRIVE. ELEV = 903.28
- BM*23 RAILROAD SPIKE IN POWER POLE AT SOUTHEAST CORNER OF LAKEWOOD ROAD AND ACKMAN ROAD. ELEV = 895.89
- BM*10248 FIRE HYDRANT SOUTHEAST FLANGE BOLT AT HOUSE #2465 LAKE AVENUE. ELEV = 893.67
- BM*11173 RAILROAD SPIKE IN POWER POLE IN ISLAND AT HUNTLEY ROAD AND LAKE AVENUE. ELEV = 896.63

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DESIGNED - JDM	REVISED - PER IDOT 10-2-14
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-GN+es.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS, COMMITMENTS AND BENCHMARKS

SCALE: STA. TO STA.

F.A.U. RTE. 3870	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 2
C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(217)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0004 STP	0021 STP	PARTICIPATING
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	167	167		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	45	45		
20101000	TEMPORARY FENCE	FOOT	2,000	2,000		
20101100	TREE TRUNK PROTECTION	EACH	45	45		
* 20101200	TREE ROOT PRUNING	EACH	28	28		
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	10	10		
* 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	4	4		
20200100	EARTH EXCAVATION	CU YD	491	491		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,671	2,671		
20800150	TRENCH BACKFILL	CU YD	365	365		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3,269	3,269		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	805	805		
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	19,750	19,750		
* 25000210	SEEDING, CLASS 2A	ACRE	2.25	2.25		
* 25000312	SEEDING, CLASS 4A	ACRE	0.75	0.75		

* SPECIALITY ITEMS

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0004 STP	0021 STP	PARTICIPATING
* 25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25		
* 25000324	SEEDING, CLASS 5B	ACRE	0.25	0.25		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	191	191		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	191	191		
* 25100127	MULCH, METHOD 3A	ACRE	4.25	4.25		
* 25100900	TURF REINFORCEMENT MAT	SQ YD	1,649	1,649		
* 25200110	SODDING, SALT TOLERANT	SQ YD	7,850	7,850		
* 25200200	SUPPLEMENTAL WATERING	UNIT	90	90		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2,250	2,250		
28000305	TEMPORARY DITCH CHECKS	FOOT	700	700		
28000400	PERIMETER EROSION BARRIER	FOOT	3,664	3,664		
28000510	INLET FILTERS	EACH	31	31		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	19,750	19,750		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	947	947		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	265	265		

* SPECIALITY ITEMS

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 LICENSE NO. 181-10-220/2014
 PROJECT NO. 130154-SH-PH2-500.dgn
 DATE: 8/20/14

BAXTER & WOODMAN
Consulting Engineers

DESIGNED - JDM	REVISED - PER IDOT 10-2-14
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154.SH-PH2-500.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: STA. TO STA.

F.A.I. RTE. 3870 0118	SECTION 13-00012-00-BT	COUNTY MCHENRY	TOTAL SHEETS 86	SHEET NO. 3
C-91-395-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0004 STP	0021 STP	PARTICIPATING
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	6,599	6,599		
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	1,243	1,243		
35600650	HOT-MIX ASPHALT BASE COURSE WIDENING, 4"	SQ YD	265	265		
35600706	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"	SQ YD	230	230		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	15	15		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	27,760	27,760		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	6	6		
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1,627	1,627		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	383	383		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	375	375		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N50	TON	3,167	3,167		
42001300	PROTECTIVE COAT	SQ YD	294	294		
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	44	44		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	150	150		
42400800	DETECTABLE WARNINGS	SQ FT	55	55		

* SPECIALITY ITEMS

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0004 STP	0021 STP	PARTICIPATING
44000100	PAVEMENT REMOVAL	SQ YD	954	954		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	23,475	23,475		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,239	1,239		
44000400	GUTTER REMOVAL	FOOT	740	740		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	30	30		
44000600	SIDEWALK REMOVAL	SQ FT	50	50		
44201692	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	1,001	1,001		
44201694	CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	1,175	1,175		
44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	1,175	1,175		
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	108	108		
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	180	180		
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	72	72		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	140	140		
48203006	HOT-MIX ASPHALT SHOULDERS, 2 1/4"	SQ YD	4,210	4,210		
48203013	HOT-MIX ASPHALT SHOULDERS, 4"	SQ YD	335	335		

* SPECIALITY ITEMS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 DISTRICT 11
 CHICAGO
 30154 SH-PH2-500

FAXTER & WOODMAN

DESIGNED: JDM
 CHECKED: UKP
 DRAWN: DS
 REVISIONS:
 FILE: 30154.SH-PH2-500

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 0118	13-0112-00-8"	MCHENRY	86	4
C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 ILL. NO. 12171 FED. AID PROJECT M-4003(217)				

SCALE:

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0004 STP	0021 STP	PARTICIPATING
50105220	PIPE CULVERT REMOVAL	FOOT	513	513		
542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	30	30		
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	77	77		
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	5	5		
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	3	3		
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2		
54213867	STEEL END SECTIONS 12"	EACH	2	2		
54213870	STEEL END SECTIONS 15"	EACH	6	6		
54213873	STEEL END SECTIONS 18"	EACH	1	1		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	1,121	1,121		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	299	299		
55100300	STORM SEWER REMOVAL 8"	FOOT	262	262		
55100400	STORM SEWER REMOVAL 10"	FOOT	43	43		
55100500	STORM SEWER REMOVAL 12"	FOOT	15	15		
55100700	STORM SEWER REMOVAL 15"	FOOT	39	39		

* SPECIALITY ITEMS

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0004 STP	0021 STP	PARTICIPATING
55100900	STORM SEWER REMOVAL 18"	FOOT	5	5		
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	5	5		
60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	5	5		
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	6	6		
60266600	VALVE BOXES TO BE ADJUSTED	EACH	5	5		
60500040	REMOVING MANHOLES	EACH	1	1		
60500050	REMOVING CATCH BASINS	EACH	1	1		
60500060	REMOVING INLETS	EACH	1	1		
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2	2		
60602500	CONCRETE GUTTER, TYPE A	FOOT	455	455		
60602800	CONCRETE GUTTER, TYPE B	FOOT	85	85		
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	260	260		
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	30	30		
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	700			700

* SPECIALITY ITEMS

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 LICENSE NO. 181-1202/2014
 PROJECT NO. 130154.SH.PH2-500.dgn
 DATE 8/20/14

BAXTER & WOODMAN
Consulting Engineers

DESIGNED BY	JSM	REVISED	PER 1007	8-14
DRAWN BY	AKB	REVISED		
CHECKED BY	DSH	REVISED		
DATE	8/20/14	TITLE	130154.SH.PH2-500.dgn	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870	13-00012-00-3	MCHENRY	86	5
018				
C-91-393-13				CONTRACT NO. 61A78
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40C3(217)				

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0004 STP	0021 STP	PARTICIPATING
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		4	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	400	400		
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		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3,432	3,432		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,144	1,144		
72000100	SIGN PANEL - TYPE 1	SQ FT	196	196		
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	9	9		
73000100	WOOD SIGN SUPPORT	FOOT	570	570		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	361	361		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	20,060	20,060		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	13,173	13,173		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	393	393		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	85	85		

* SPECIALITY ITEMS

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0004 STP	0021 STP	PARTICIPATING
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	49	49		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,130	3,130		
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	10	10		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	265	265		
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4	
* A2001220	TREE, ACER RUBRUM RED SUNSET (RED SUNSET RED MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3	3		
* A2001820	TREE, ACER SACCHARUM GREEN MOUNTAIN (GREEN MOUNTAIN SUGAR MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
* A2007820	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
* B2004520	TREE, MALUS RED JEWEL (RED JEWEL CRAB APPLE), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	2	2		
* B2013470	TREE, MALUS GOLDEN RAINDROPS (GOLDEN RAINDROPS CRABAPPLE), 2 1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	2	2		
Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	1,127	1,127		
Z0004522	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	SQ YD	116	116		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	11	11		
Z0019500	DRYWELL	EACH	2	2		

* SPECIALITY ITEMS

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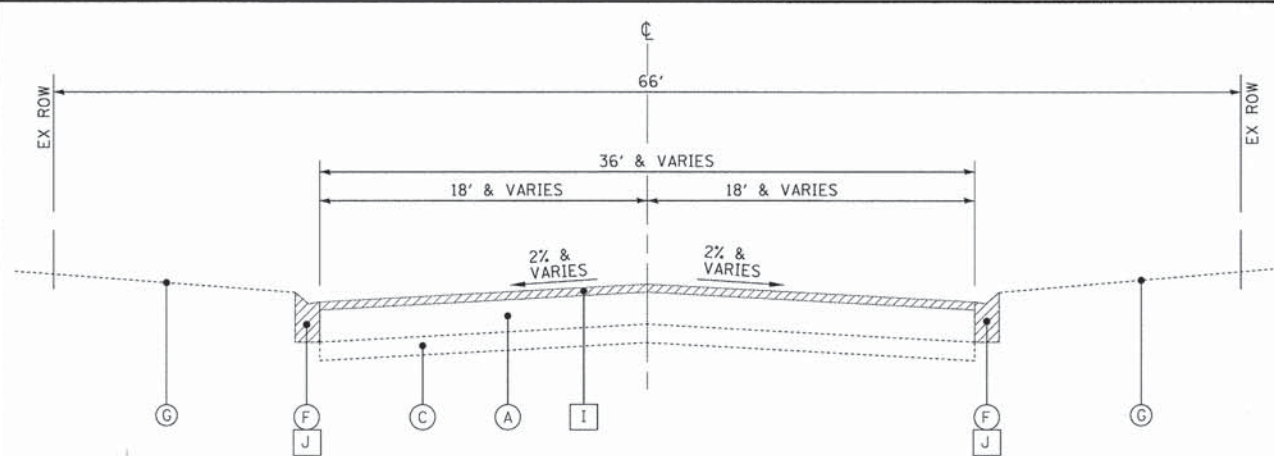
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DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154.SH-PH2-500.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

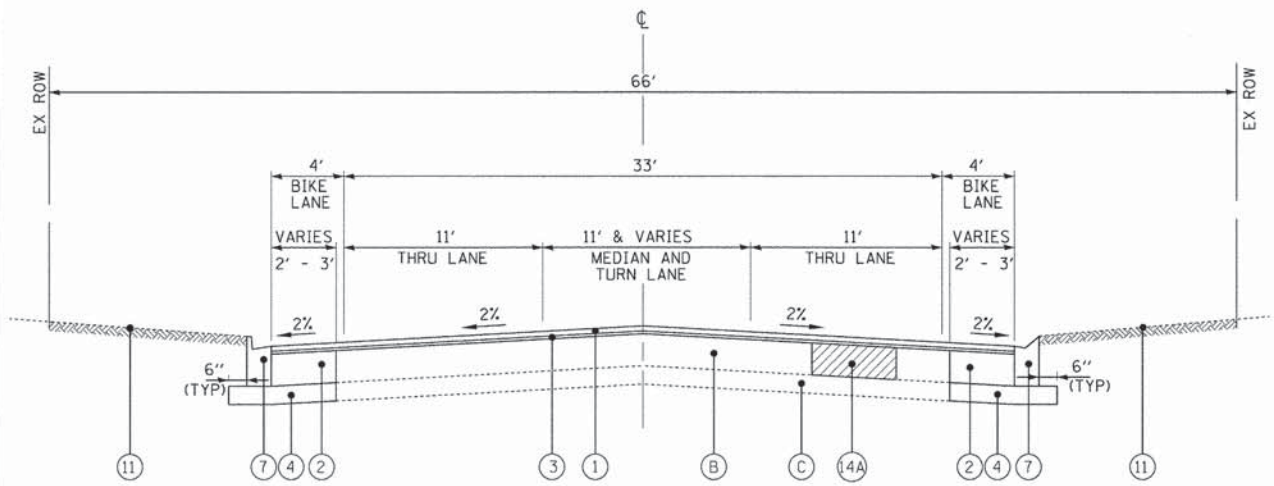
SUMMARY OF QUANTITIES

SCALE: _____ STA. _____ TO STA. _____

F.A.U. RTE. 3870 0118	SECTION 13-00012-00-ST	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 6
C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



**EXISTING TYPICAL SECTION
LAKEWOOD ROAD
STA 10+82 TO STA 15+00**



**PROPOSED TYPICAL SECTION
LAKEWOOD ROAD
STA 10+82 TO STA 15+00**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm); 1 3/4"	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (FOR CROWN CORRECTION)	4% @ 50 Gyr.
SHOULDER WIDENING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm); 1 3/4"	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
HOT-MIX ASPHALT SHOULDERS, (HMA BINDER IL-19mm), 2 1/4", 4"	4% @ 50 Gyr.
BASE COURSE WIDENING - LAKEWOOD ROAD	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm); 1 3/4"	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
HMA BASE COURSE WIDENING (HMA BINDER IL-19mm), 7 1/2" (2 LIFTS)	4% @ 50 Gyr.
BASE COURSE WIDENING - LAKE AVENUE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm); 1 3/4"	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
HMA BASE COURSE WIDENING (HMA BINDER IL-19mm), 4"	4% @ 50 Gyr.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm), 4", 6" (2 LIFTS ON 8")	4% @ 70 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm); (PE-3") (CE-2")	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19 mm) (CE-4")	4% @ 50 Gyr.
BIKE PATH	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm); 3"	4% @ 50 Gyr.

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE DISTRICT ONE SPECIAL PROVISIONS.

FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS

THE CONTRACTOR SHALL MILL BEFORE PATCHING

*AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE THE CONTRACTOR. POTENTIAL UNDERCUT LOCATIONS ARE LISTED ON SHEET 9.

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE AND BINDER, 10"±
- (B) HOT-MIX ASPHALT SURFACE AND BINDER, 4 1/2"±
- (BB) HOT-MIX ASPHALT SURFACE AND BINDER, 6 1/2"±
- (C) AGGREGATE BASE, 6"
- (CC) AGGREGATE BASE, 12"±
- (CD) AGGREGATE BASE, 11"±
- (D) AGGREGATE SHOULDER, 4"±
- (E) HOT-MIX ASPHALT BIKE PATH
- (F) CONCRETE GUTTER
- (G) GROUND SURFACE
- (H) HOT-MIX ASPHALT DRIVEWAY SURFACE
- (I) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (J) GUTTER REMOVAL
- ▨ ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 1 3/4"
- (2) HOT-MIX ASPHALT BASE COURSE WIDENING - 7 1/2"
- (2A) HOT-MIX ASPHALT BASE COURSE WIDENING - 4"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (4) AGGREGATE BASE COURSE, TYPE B - 4"
- (5) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (6) HOT-MIX ASPHALT DRIVEWAY PAVEMENT (SEE PLANS AND DRIVEWAY DETAIL)
- (7) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18 OR CONCRETE GUTTER, TYPE A (SEE PLAN)
- (8) HOT-MIX ASPHALT SHOULDERS - 4"
- (8A) HOT-MIX ASPHALT SHOULDERS - 2 1/4"
- (9) AGGREGATE WEDGE SHOULDERS, TYPE B
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (11) TOPSOIL FURNISH AND PLACE - 4" SEEDING ••FERTILIZER MULCH, METHOD 3A
- (12) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY ENGINEER)*
- (13) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (UNDER CUTS ONLY)
- (14) CLASS D PATCHES, 4-INCH (AS SHOWN ON PLANS AND AS DETERMINED BY THE ENGINEER)
- (14A) CLASS D PATCHES, 8-INCH (AS DETERMINED BY THE ENGINEER)
- SEE EROSION CONTROL PLAN FOR SEEDING CLASSES AND LOCATIONS OF SODDING, SALT TOLERANT

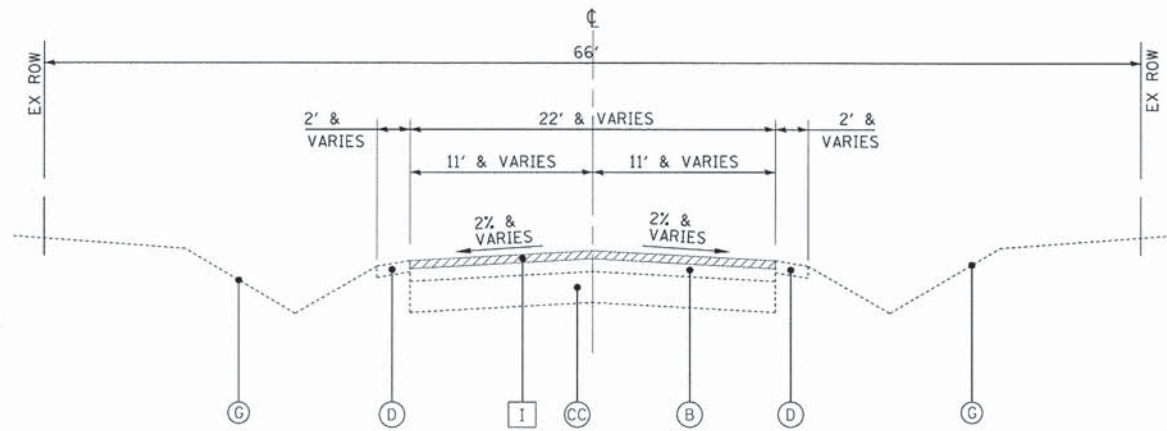
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BAXTER & WOODMAN Consulting Engineers	DESIGNED - JDM	REVISED - PER IDOT 10-2-14
	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154-SH-PH2-TypSec.dgn

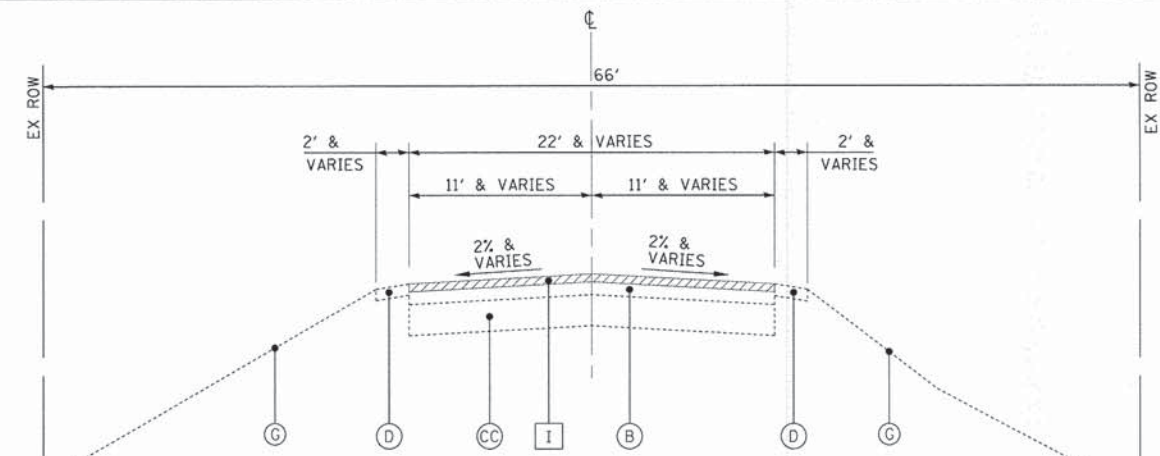
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	STA. TO STA.
TYPICAL SECTIONS	

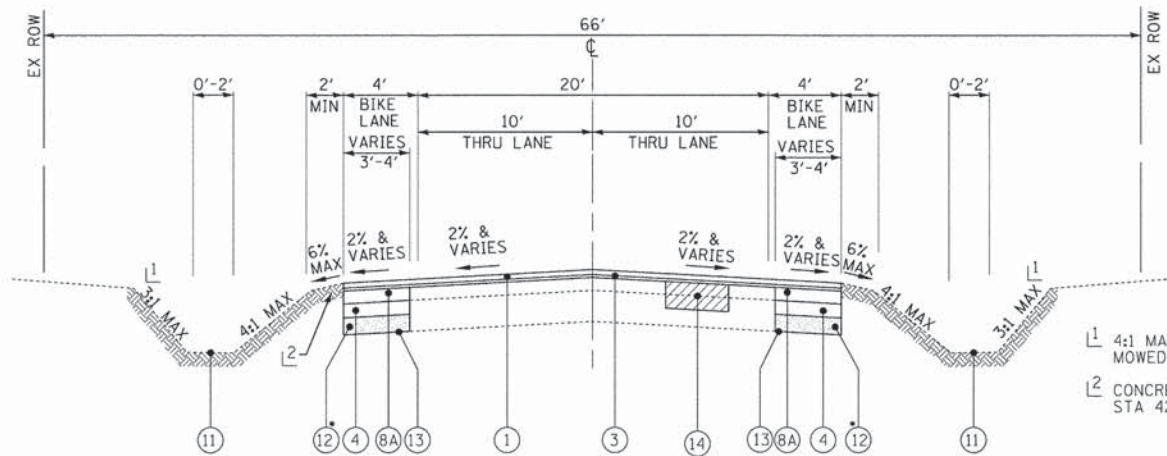
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C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003217				



**EXISTING TYPICAL SECTION
LAKEWOOD ROAD
STA 15+00 TO STA 37+10
STA 41+60 TO STA 71+70**



**EXISTING TYPICAL SECTION
LAKEWOOD ROAD
STA 37+10 TO STA 41+60**



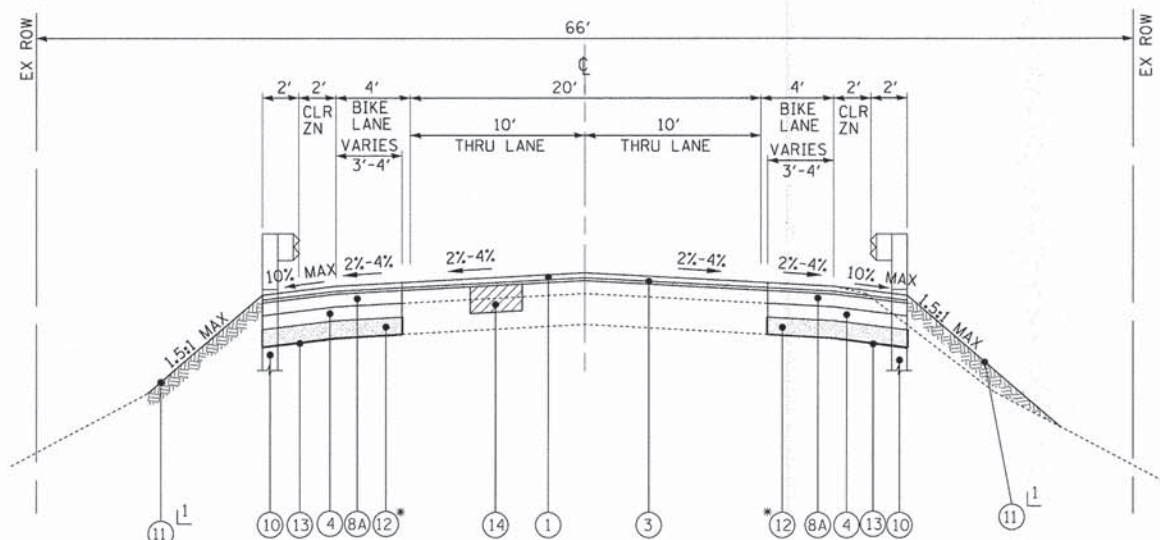
**PROPOSED TYPICAL SECTION
LAKEWOOD ROAD
STA 15+00 TO STA 37+10
STA 41+60 TO STA 71+70**

PROPOSED LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 1 3/4"
 - ② HOT-MIX ASPHALT BASE COURSE WIDENING - 7 1/2"
 - ②A HOT-MIX ASPHALT BASE COURSE WIDENING - 4"
 - ③ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
 - ④ AGGREGATE BASE COURSE, TYPE B - 4"
 - ⑤ AGGREGATE SUBGRADE IMPROVEMENT - 12"
 - ⑥ HOT-MIX ASPHALT DRIVEWAY PAVEMENT (SEE PLANS AND DRIVEWAY DETAIL)
 - ⑦ COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18 OR CONCRETE GUTTER, TYPE A (SEE PLAN)
 - ⑧ HOT-MIX ASPHALT SHOULDERS - 4"
 - ⑧A HOT-MIX ASPHALT SHOULDERS - 2 1/4"
 - ⑨ AGGREGATE WEDGE SHOULDERS, TYPE B
 - ⑩ STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - ⑪ TOPSOIL FURNISH AND PLACE - 4"
SEEDING **FERTILIZER
MULCH, METHOD 3A
 - ⑫ AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY ENGINEER)*
 - ⑬ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (UNDER CUTS ONLY)
 - ⑭ CLASS D PATCHES, 4-INCH (AS SHOWN ON PLANS AND AS DETERMINED BY THE ENGINEER)
 - ⑭A CLASS D PATCHES, 8-INCH (AS DETERMINED BY THE ENGINEER)
- ** SEE EROSION CONTROL PLAN FOR SEEDING CLASSES AND LOCATIONS OF SODDING, SALT TOLERANT

EXISTING LEGEND

- Ⓐ HOT-MIX ASPHALT SURFACE AND BINDER, 10"±
- Ⓑ HOT-MIX ASPHALT SURFACE AND BINDER, 4 1/2"±
- ⒷB HOT-MIX ASPHALT SURFACE AND BINDER, 6 1/2"±
- Ⓒ AGGREGATE BASE, 6"
- ⒸC AGGREGATE BASE, 12"±
- ⒸD AGGREGATE BASE, 11"±
- Ⓓ AGGREGATE SHOULDER, 4"±
- Ⓕ HOT-MIX ASPHALT BIKE PATH
- Ⓖ CONCRETE GUTTER
- Ⓖ GROUND SURFACE
- Ⓕ HOT-MIX ASPHALT DRIVEWAY SURFACE
- Ⓖ HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- Ⓖ GUTTER REMOVAL
- Ⓖ ITEM TO BE REMOVED



**PROPOSED TYPICAL SECTION
LAKEWOOD ROAD
STA 37+10 TO STA 41+60**

Ⓖ REUSE EXISTING WETLAND SOILS (6" MIN) WITHIN WETLAND DISTURBANCE AREAS, PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.

*AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSUITABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE THE CONTRACTOR. POTENTIAL UNDERCUT LOCATIONS ARE LISTED BELOW.

POTENTIAL UNDERCUT LOCATIONS

LAKEWOOD ROAD			
STA	TO	STA	DEPTH
32+50		42+00	12"
55+00		72+06	12"

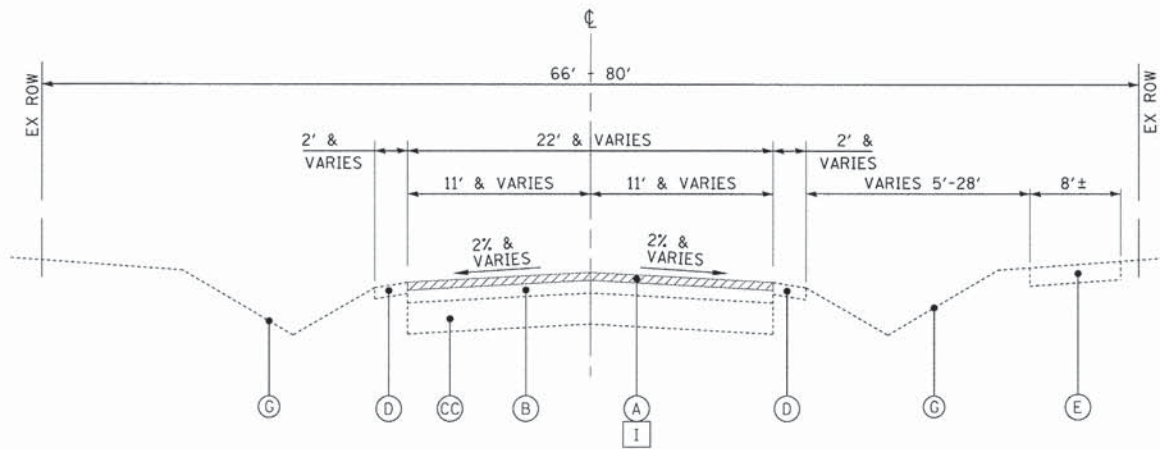
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BAXTER & WOODMAN Consulting Engineers	DESIGNED - JDM	REVISED - PER IDOT 10-2-14
	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154_SH-PH2-TypSec.dgn

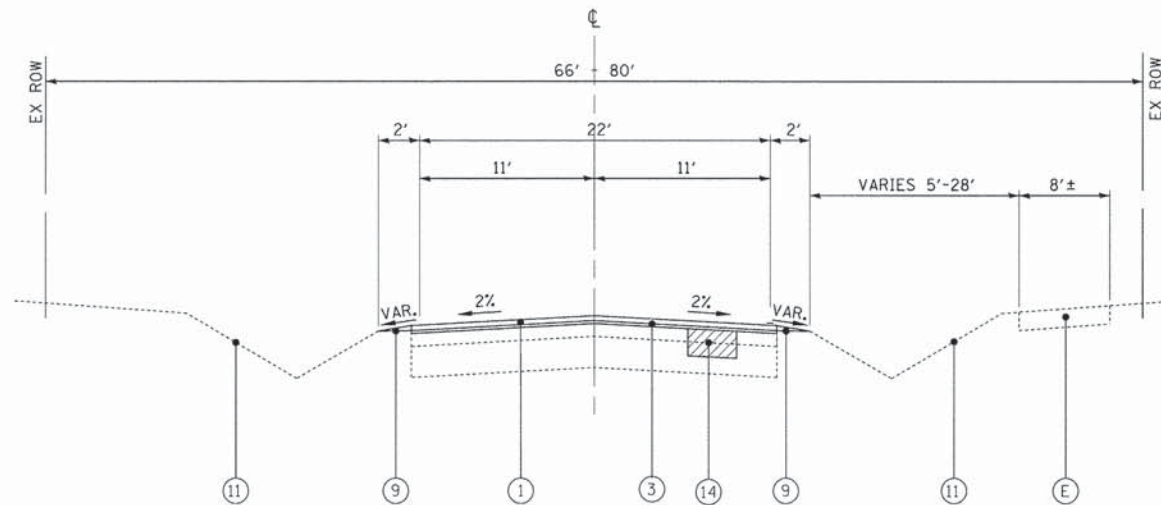
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	STA.	TO STA.
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F.A.U. RTE. 3870 018	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 9
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(217)				



**EXISTING TYPICAL SECTION
LAKWOOD ROAD
STA 71+70 TO STA 83+42**



**PROPOSED TYPICAL SECTION
LAKWOOD ROAD
STA 71+70 TO STA 83+42**

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE AND BINDER, 10"±
- (B) HOT-MIX ASPHALT SURFACE AND BINDER, 4 1/2"±
- (BB) HOT-MIX ASPHALT SURFACE AND BINDER, 6 1/2"±
- (C) AGGREGATE BASE, 6"
- (CC) AGGREGATE BASE, 12"±
- (CD) AGGREGATE BASE, 11"±
- (D) AGGREGATE SHOULDER, 4"±
- (E) HOT-MIX ASPHALT BIKE PATH
- (F) CONCRETE GUTTER
- (G) GROUND SURFACE
- (H) HOT-MIX ASPHALT DRIVEWAY SURFACE
- (I) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (J) GUTTER REMOVAL
- [Hatched Box] ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 1 3/4"
- (2) HOT-MIX ASPHALT BASE COURSE WIDENING - 7 1/2"
- (2A) HOT-MIX ASPHALT BASE COURSE WIDENING - 4"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (4) AGGREGATE BASE COURSE, TYPE B - 4"
- (5) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (6) HOT-MIX ASPHALT DRIVEWAY PAVEMENT (SEE PLANS AND DRIVEWAY DETAIL)
- (7) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18 OR CONCRETE GUTTER, TYPE A (SEE PLAN)
- (8) HOT-MIX ASPHALT SHOULDERS - 4"
- (8A) HOT-MIX ASPHALT SHOULDERS - 2 1/4"
- (9) AGGREGATE WEDGE SHOULDERS, TYPE B
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (11) TOPSOIL FURNISH AND PLACE - 4"
SEEDING ••FERTILIZER
MULCH, METHOD 3A
- (12) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY ENGINEER)•
- (13) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (UNDER CUTS ONLY)
- (14) CLASS D PATCHES, 4-INCH (AS SHOWN ON PLANS AND AS DETERMINED BY THE ENGINEER)
- (14A) CLASS D PATCHES, 8-INCH (AS DETERMINED BY THE ENGINEER)
- SEE EROSION CONTROL PLAN FOR SEEDING CLASSES AND LOCATIONS OF SODDING, SALT TOLERANT

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 TEL: 312.329.1100 FAX: 312.329.1101 WWW.B&WENR.COM

BAXTER & WOODMAN
Consulting Engineers

DESIGNED - JDM	REVISED - PER IDOT 10-2-14
DRAWN - LKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-TypSec.dgn

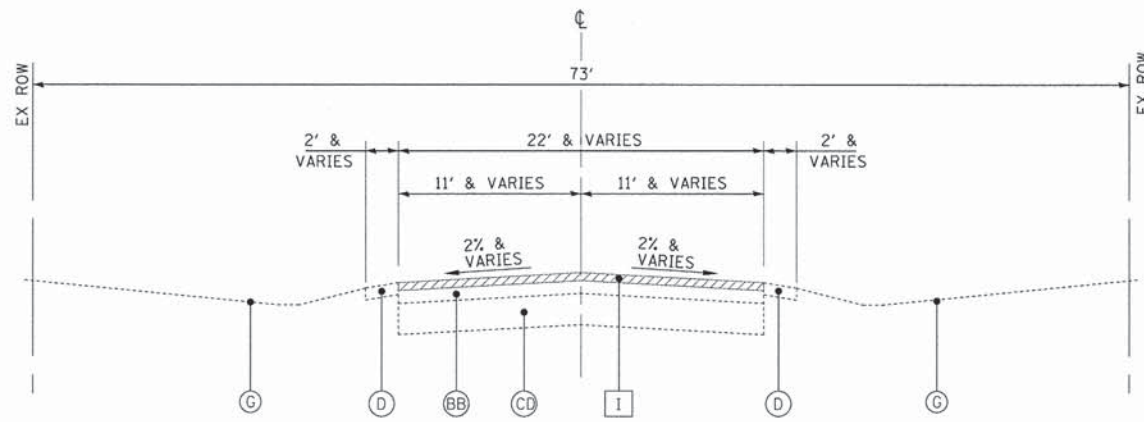
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:

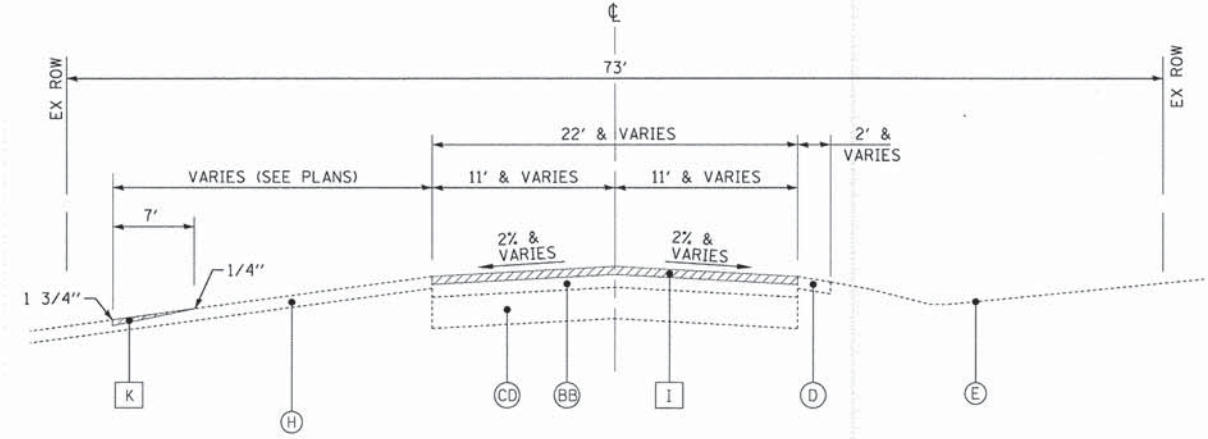
TYPICAL SECTIONS

STA. TO STA.

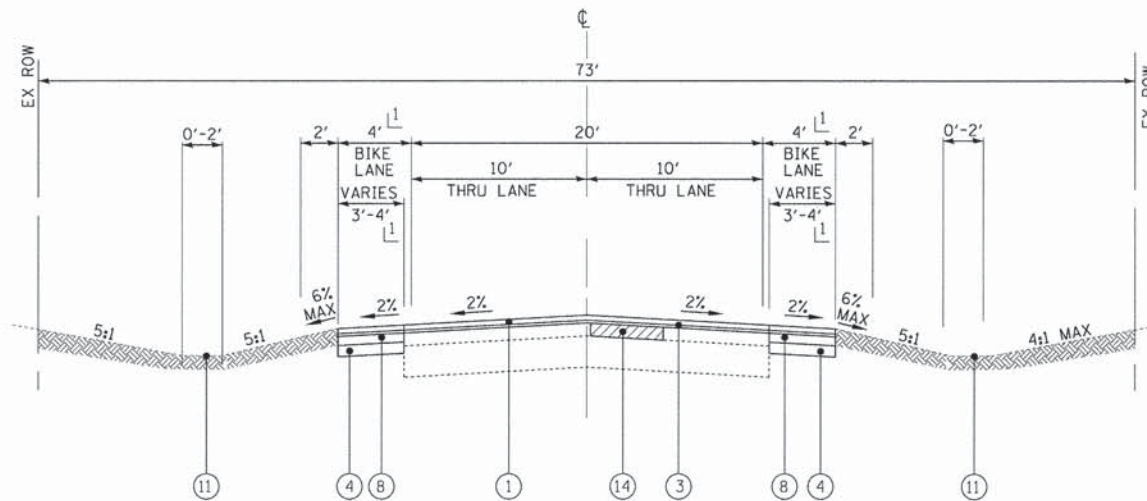
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 018	13-00012-00-BT	McHENRY	86	10
C-91-393-13	CONTRACT NO. 61A78			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



**EXISTING TYPICAL SECTION
LAKE AVENUE
STA 101+00 TO STA 102+95**



**EXISTING TYPICAL SECTION
LAKE AVENUE
STA 102+95 TO STA 114+18**



**PROPOSED TYPICAL SECTION
LAKE AVENUE
STA 101+00 TO STA 102+95**

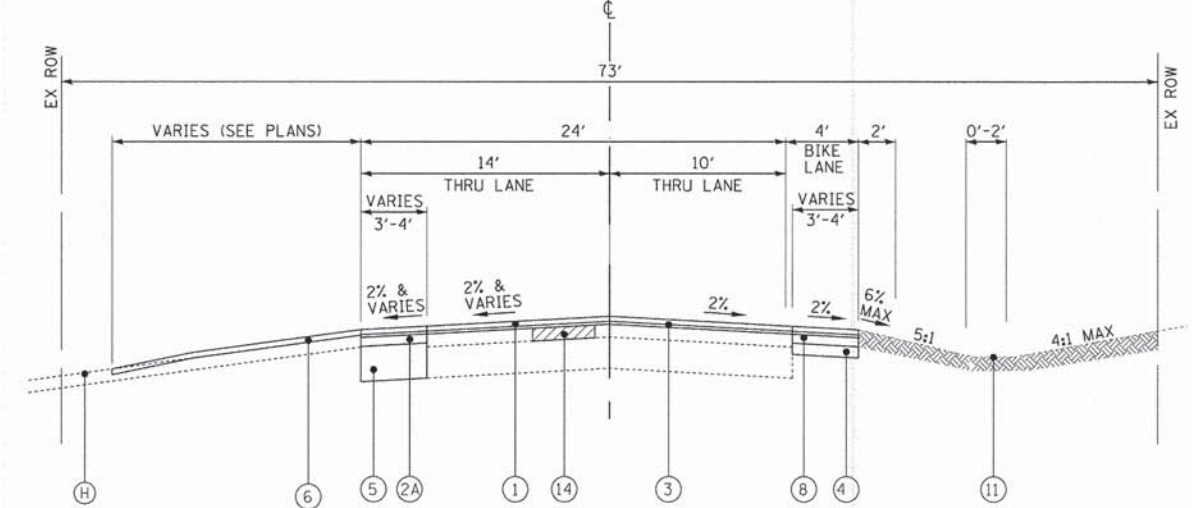
⊥ NO BIKE LANE, THRU LANES VARY 10'-11', AND SHOULDER WIDENING VARIES 0'-3' STA 101+00 TO STA 101+50

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE AND BINDER, 10"±
- (B) HOT-MIX ASPHALT SURFACE AND BINDER, 4 1/2"±
- (BB) HOT-MIX ASPHALT SURFACE AND BINDER, 6 1/2"±
- (C) AGGREGATE BASE, 6"
- (CC) AGGREGATE BASE, 12"±
- (CD) AGGREGATE BASE, 11"±
- (D) AGGREGATE SHOULDER, 4"±
- (E) HOT-MIX ASPHALT BIKE PATH
- (F) CONCRETE GUTTER
- (G) GROUND SURFACE
- (H) HOT-MIX ASPHALT DRIVEWAY SURFACE
- (I) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (J) GUTTER REMOVAL
- (K) HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- ☐ ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 1 3/4"
- (2) HOT-MIX ASPHALT BASE COURSE WIDENING - 7 1/2"
- (2A) HOT-MIX ASPHALT BASE COURSE WIDENING - 4"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 - 3/4"
- (4) AGGREGATE BASE COURSE, TYPE B - 4"
- (5) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (6) HOT-MIX ASPHALT DRIVEWAY PAVEMENT (SEE PLANS AND DRIVEWAY DETAIL)
- (7) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18 OR CONCRETE GUTTER, TYPE A (SEE PLAN)
- (8) HOT-MIX ASPHALT SHOULDERS - 4"
- (8A) HOT-MIX ASPHALT SHOULDERS - 2 1/4"
- (9) AGGREGATE WEDGE SHOULDERS, TYPE B
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (11) TOPSOIL FURNISH AND PLACE - 4" SEEDING ••FERTILIZER MULCH, METHOD 3A
- (12) AGGREGATE SUBGRADE IMPROVEMENT (AS DETERMINED BY ENGINEER)•
- (13) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (UNDER CUTS ONLY)
- (14) CLASS D PATCHES, 4-INCH (AS SHOWN ON PLANS AND AS DETERMINED BY THE ENGINEER)
- (14A) CLASS D PATCHES, 8-INCH (AS DETERMINED BY THE ENGINEER)
- SEE EROSION CONTROL PLAN FOR SEEDING CLASSES AND LOCATIONS OF SODDING, SALT TOLERANT



**PROPOSED TYPICAL SECTION
LAKE AVENUE
STA 102+95 TO STA 114+18**

*AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE THE CONTRACTOR. POTENTIAL UNDERCUT LOCATIONS ARE LISTED BELOW.

POTENTIAL UNDERCUT LOCATIONS

LAKE AVENUE			
STA	TO	STA	DEPTH
101+00		104+00	12"

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 PROJECT NO. 13-00012-00-BT, SHEET NO. 86 OF 111
 DATE: 8-20-14



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DRAWN - UKB	REVISED -
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DATE - 8-20-14	FILE - 130154_SH-PH2-TypSec.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: STA. TO STA.

F.A.U. RTE. 3870/018	SECTION 13-00012-00-BT	COUNTY MCHENRY	TOTAL SHEETS 86	SHEET NO. 11
CONTRACT NO. 61A78			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)	

LOCATION	EARTHWORK									
	TOPSOIL EXCAVATION IN DITCHES	TOPSOIL EMBANKMENT REQUIRED	TOPSOIL EXCAVATION AND PLACEMENT IN DITCHES ¹ (15% SHRINKAGE)	EXCESS TOPSOIL	UNDERCUT AND AGGREGATE SUBGRADE IMPROVEMENT ²	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL ³	EARTH EXCAVATION ⁴	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE)	EMBANKMENT (STRUCTURAL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
LAKWOOD ROAD										
STA 10+82 TO 14+50	206	-	-	206	-	206	25	22	12	10
STA 14+50 TO 20+00	105	18	21	84	-	84	55	47	1	46
STA 20+00 TO 32+50	359	62	72	288	-	288	96	81	-	81
STA 32+50 TO 42+00*	704	174	200	505	352	857	-	-	101	-101
STA 42+00 TO 55+00	261	169	195	67	-	67	123	105	2	103
STA 55+00 TO 72+06	745	262	302	444	506	950	-	-	2	-2
SUBTOTAL	2,382	687	790	1,593	858	2,451	300	255	118	138
LAKE AVENUE										
STA 101+00 TO 104+00	31	0.3	0.3	31	89	120	17	14	-	14
STA 104+00 TO 114+18	114	12	14	100	-	100	174	148	-	148
SUBTOTAL	145	13	15	131	89	220	191	163	-	163
TOTAL	2,527	700	805	1,724	947	2,671	491	418	118	301

1 SHALL BE PAID FOR AS "21101505 TOPSOIL EXCAVATION AND PLACEMENT"
2 SHALL BE PAID FOR AS "30300001 AGGREGATE SUBGRADE IMPROVEMENT"
3 SHALL BE PAID FOR AS "20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL"
4 SHALL BE PAID FOR AS "20200100 EARTH EXCAVATION"
* INCLUDES WETLAND SOIL EXCAVATION AND PLACEMENT

DRIVEWAY SCHEDULE

STATION	SIDE	TYPE	44000200	42300200	Z0004510	Z0004522	40200800	35101600	35102000
			DRIVEWAY PAVEMENT REMOVAL	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH SQ YD	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	AGGREGATE SURFACE COURSE, TYPE B	AGGREGATE BASE COURSE, TYPE B 4"	AGGREGATE BASE COURSE, TYPE B 8"
			SQ YD	SQ YD	SQ YD	SQ YD	TON	SQ YD	SQ YD
31+22	RT	FE	0		23		5		23
31+22	LT	FE	0		23		5		23
32+35	RT	PE*	31		31				31
36+27	RT	PE	40		40				40
42+54	LT	PE	35		31				31
42+98	LT	PE	31		27				27
52+92	LT	PE	27		27				27
55+50	LT	PE	28		28				28
59+59	RT	PE	43		43				43
60+66	LT	FE	19		19		5		19
61+33	RT	PE	35		35				35
62+82	RT	PE	43		43				43
64+34	RT	PE	42		42				42
64+58	LT	PE	29		29				29
65+33	RT	PE	48		48				48
71+35	RT	PE**	33		43				43
72+78	LT	PE		MAINTAIN EXISTING					
76+63	LT	PE		MAINTAIN EXISTING					
100+25	RT	PE			49				49
101+30	LT	CE	65			65			65
102+35	RT	PE	51		51				51
102+64	LT	CE	51			51			51
130+41	RT	PE	48		48				48
104+29	RT	PE	44		44				44
105+37	RT	PE	47		47				47
105+95	RT	PE	44	44				44	
106+72	RT	PE	42		42				42
107+49	RT	PE	39		39				39
108+09	RT	PE	38		38				38
108+58	RT	PE	55		55				55
109+36	RT	PE	47		47				47
110+03	RT	PE	50		50				50
110+56	RT	PE	38		38				38
110+89	RT	PE	47		47				47
TOTALS			1239	44	1127	116	15	44	1243

*HMA golf cart path
**HMA bike path

TREE REMOVAL SCHEDULE

STATION	SIDE	INCH	20100110	20100210
			TREE REMOVAL (6 TO 15 UNITS DIAMETER) UNIT	TREE REMOVAL (OVER 15 UNITS DIAMETER) UNIT
37+67	LT	2x12	24	
38+44	LT	3x8	24	
39+18	LT	24		24
39+62	RT	2x15	30	
39+81	RT	10	10	
39+87	RT	8+11	19	
44+21	LT	8	8	
45+11	LT	2x10	20	
53+98	RT	14	14	
66+62	RT	21		21
106+20	RT	6+12	18	
TOTALS			167	45

SIGN PANEL REMOVAL SCHEDULE

STATION	SIDE	72400100
		REMOVE SIGN PANEL ASSEMBLY - TYPE A EACH
44+35	RT	1
49+34	LT	1
52+02	RT	1
56+60	LT	1
63+40	RT	1
64+80	RT	1
69+25	LT	1
70+37	LT	1
108+89	RT	1
TOTALS		9

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DATE: 8-20-14
DESIGNED BY: JDM
REVISED BY: PER IDOT 10-2-14
FILE: 130154_SH-PH2-SCHEDULES.dgn
LICENSE NO.: 84-00121 - EXPIRES 7/30/2015
11/11/2014 10:52:27 AM
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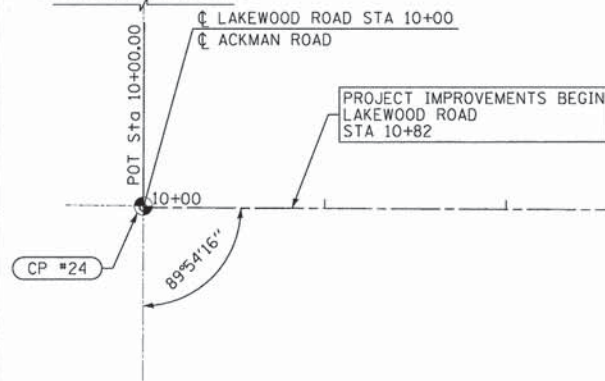
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF MATERIALS

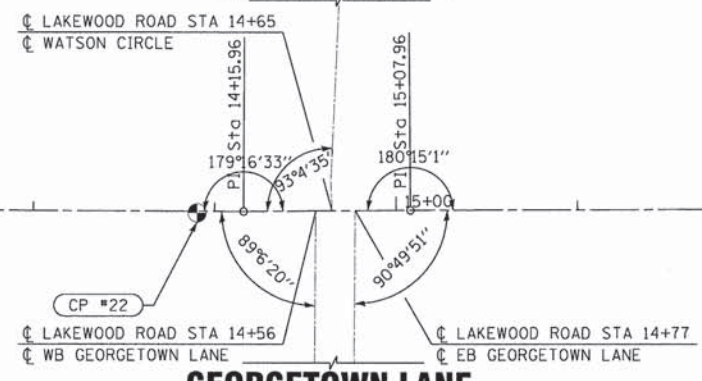
SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 918	13-00012-00-BT	McHENRY	86	12
C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(2)71				

ACKMAN ROAD



WATSON CIRCLE



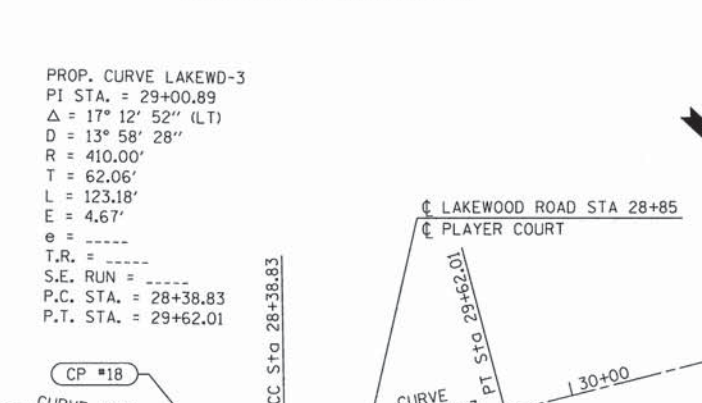
WATSON CIRCLE



ACKMAN ROAD

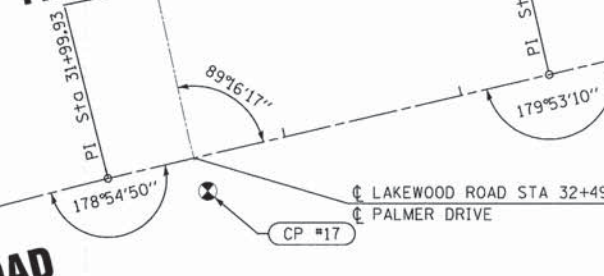


GEORGETOWN LANE



LAKEWOOD ROAD

PALMER DRIVE



NICKLAUS LANE



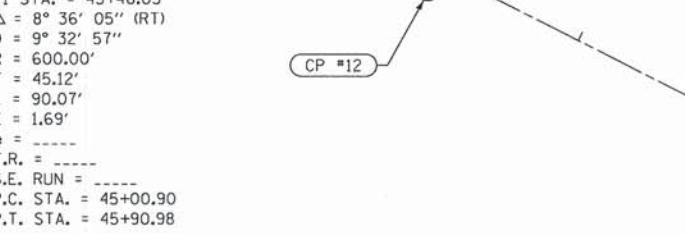
LAKEWOOD ROAD

PLAYER COURT

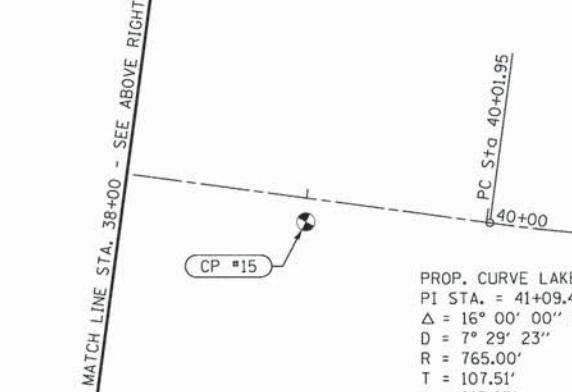


LAKEWOOD ROAD

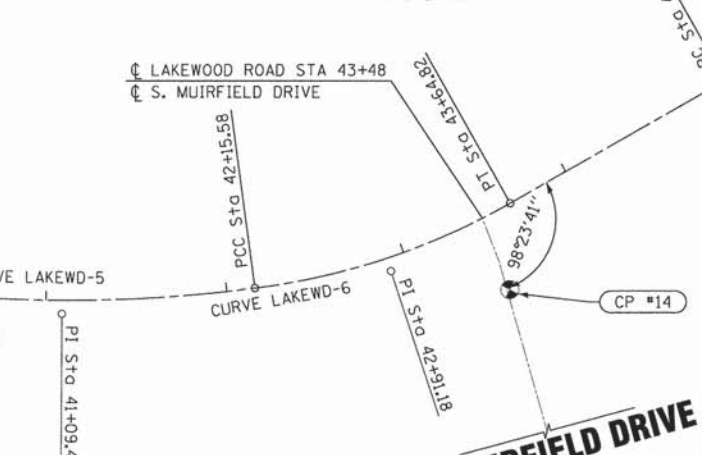
LAKEWOOD ROAD



ACKMAN ROAD



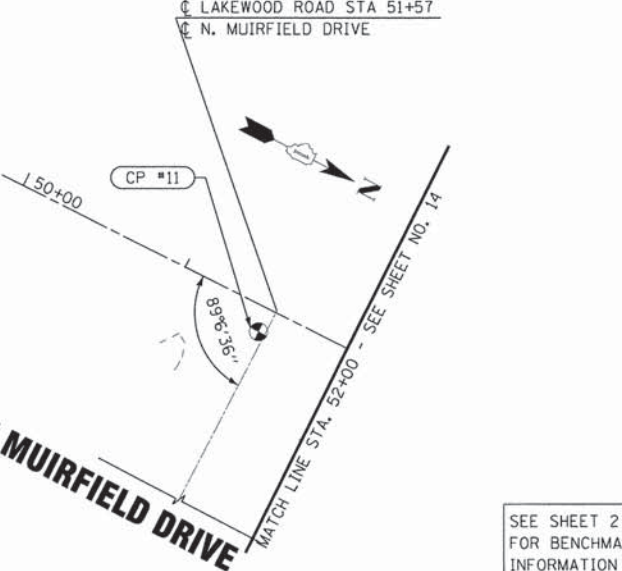
PLAYER COURT



LAKEWOOD ROAD



N MUIRFIELD DRIVE



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 PROJECT NO. 130154-SH-PH2-AlignTies1.dgn
 DATE: 8/20/2014 10:20:24 AM

BAXTER & WOODMAN Consulting Engineers	DESIGNED - JDM	REVISED - PER IDOT 10-2-14
	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154-SH-PH2-AlignTies1.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT AND TIES LAKEWOOD ROAD		F.A.U. RTE. 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 13
SCALE: 1" = 50'	STA. 10+00 TO STA. 52+00	CONTRACT NO. 61A78			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)					

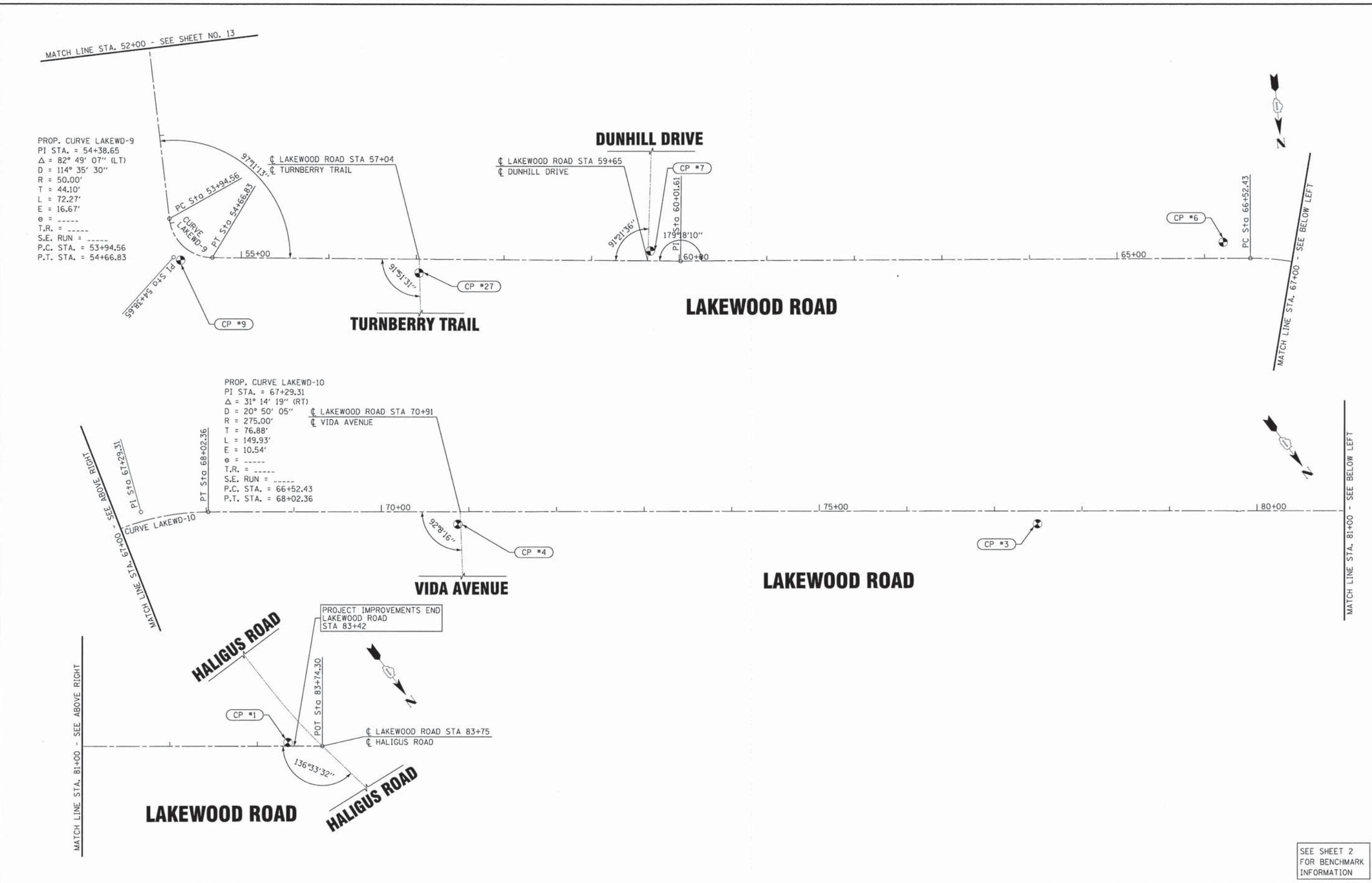
SEE SHEET 2 FOR BENCHMARK INFORMATION

MATCH LINE STA. 52+00 - SEE SHEET NO. 13

PROP. CURVE LAKEWD-9
 PI STA. = 54+38.65
 $\Delta = 82^\circ 49' 07''$ (LT)
 $D = 114^\circ 35' 30''$
 $R = 50.00'$
 $T = 44.10'$
 $L = 72.27'$
 $E = 16.67'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 P.C. STA. = 53+94.56
 P.T. STA. = 54+66.83

PROP. CURVE LAKEWD-10
 PI STA. = 67+29.31
 $\Delta = 31^\circ 14' 19''$ (RT)
 $D = 20^\circ 50' 05''$
 $R = 275.00'$
 $T = 76.88'$
 $L = 149.93'$
 $E = 10.54'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 P.C. STA. = 66+52.43
 P.T. STA. = 68+02.36

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 LICENSE NO. 284-00021 - EXPIRES 4/30/2015
 10/20/2014



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	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154_SH-PH2-AlignTies1.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES
 LAKEWOOD ROAD
 SCALE: 1" = 50'
 STA. 52+00 TO STA. 52+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
130	13-00012-00-BT	McHENRY	86	14
C-91-393-13	CONTRACT NO. 61A78			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				

SEE SHEET 2
 FOR BENCHMARK
 INFORMATION

CHAIN LAKEWD CONTAINS:
 LW1 LW2 LW3 CUR LAKEWD-1 CUR LAKEWD-2 CUR LAKEWD-3 LW4 LW5 CUR LAKEWD-
 -4 LW6 CUR LAKEWD-5 CUR LAKEWD-6 CUR LAKEWD-7 CUR LAKEWD-8 CUR LAKEWD-9 LW7 CUR-
 LAKEWD-10 LW8

Beginning chain LAKEWD description

Point LW1 N 2,017,149.88 E 970,625.84 Sta 10+00

Course from LW1 to LW2 N 0° 11' 55" E Dist 415.96

Point LW2 N 2,017,565.84 E 970,627.28 Sta 14+16

Course from LW2 to LW3 N 0° 31' 32" W Dist 91.99

Point LW3 N 2,017,657.83 E 970,626.44 Sta 15+08

Course from LW3 to PC LAKEWD-1 N 0° 16' 31" W Dist 799.25

Curve Data

Curve LAKEWD-1
 P.I. Station = 24+79 N 2,018,629.26 E 970,621.77
 Delta = 27° 15' 52" (LT)
 Degree = 8° 04' 11"
 Tangent = 172.19
 Length = 337.86
 Radius = 710.00
 External = 20.58
 Long Chord = 334.68
 Mid. Ord. = 20.00
 P.C. Station = 23+07 N 2,018,457.07 E 970,622.60
 P.T. Station = 26+45 N 2,018,781.94 E 970,542.16
 C.C. = N 2,018,453.66 E 969,912.61
 Back = N 0° 16' 31" W
 Ahead = N 27° 32' 23" W
 Chord Bear = N 13° 54' 27" W

Curve Data

Curve LAKEWD-2
 P.I. Station = 27+43 N 2,018,870.04 E 970,500.01
 Delta = 17° 45' 47" (LT)
 Degree = 9° 10' 02"
 Tangent = 97.67
 Length = 193.76
 Radius = 625.00
 External = 7.58
 Long Chord = 192.99
 Mid. Ord. = 7.49
 P.C. Station = 26+45 N 2,018,781.94 E 970,542.16
 P.T. Station = 28+39 N 2,018,941.09 E 970,432.99
 C.C. = N 2,018,512.22 E 969,978.36
 Back = N 25° 34' 00" W
 Ahead = N 43° 19' 47" W
 Chord Bear = N 34° 26' 54" W

Curve Data

Curve LAKEWD-3
 P.I. Station = 29+01 N 2,018,988.50 E 970,392.94
 Delta = 17° 12' 52" (LT)
 Degree = 13° 58' 28"
 Tangent = 62.06
 Length = 123.18
 Radius = 410.00
 External = 4.67
 Long Chord = 122.72
 Mid. Ord. = 4.62
 P.C. Station = 28+39 N 2,018,941.09 E 970,432.99
 P.T. Station = 29+62 N 2,019,021.93 E 970,340.66
 C.C. = N 2,018,676.51 E 970,119.78
 Back = N 40° 11' 19" W
 Ahead = N 57° 24' 11" W
 Chord Bear = N 48° 47' 45" W

Course from PT LAKEWD-3 to LW4 N 56° 39' 06" W Dist 237.91

Point LW4 N 2,019,152.72 E 970,141.92 Sta 32+00

Course from LW4 to LW5 N 55° 33' 56" W Dist 249.95

Point LW5 N 2,019,294.06 E 969,935.76 Sta 34+50

Course from LW5 to PC LAKEWD-4 N 55° 27' 06" W Dist 66.42

Curve Data

Curve LAKEWD-4
 P.I. Station = 36+16 N 2,019,389.35 E 969,799.29
 Delta = 34° 19' 20" (RT)
 Degree = 17° 41' 17"
 Tangent = 100.03
 Length = 194.04
 Radius = 323.92
 External = 15.09
 Long Chord = 191.15
 Mid. Ord. = 14.42
 P.C. Station = 35+16 N 2,019,331.72 E 969,881.06
 P.T. Station = 37+10 N 2,019,483.05 E 969,764.26
 C.C. = N 2,019,596.49 E 970,067.67
 Back = N 54° 49' 26" W
 Ahead = N 20° 30' 06" W
 Chord Bear = N 37° 39' 46" W

Course from PT LAKEWD-4 to LW6 N 20° 49' 29" W Dist 69.16

Point LW6 N 2,019,547.69 E 969,739.67 Sta 37+80

Course from LW6 to PC LAKEWD-5 N 19° 39' 57" W Dist 222.45

Curve Data

Curve LAKEWD-5
 P.I. Station = 41+09 N 2,019,858.82 E 969,629.80
 Delta = 16° 00' 00" (LT)
 Degree = 7° 29' 23"
 Tangent = 107.51
 Length = 213.63
 Radius = 765.00
 External = 7.52
 Long Chord = 212.94
 Mid. Ord. = 7.44
 P.C. Station = 40+02 N 2,019,757.16 E 969,664.81
 P.T. Station = 42+16 N 2,019,946.88 E 969,568.12
 C.C. = N 2,019,508.03 E 968,941.51
 Back = N 19° 00' 21" W
 Ahead = N 35° 00' 21" W
 Chord Bear = N 27° 00' 21" W

Curve Data

Curve LAKEWD-6
 P.I. Station = 42+91 N 2,020,009.26 E 969,525.42
 Delta = 22° 30' 10" (LT)
 Degree = 15° 04' 41"
 Tangent = 75.60
 Length = 149.24
 Radius = 380.00
 External = 7.45
 Long Chord = 148.29
 Mid. Ord. = 7.30
 P.C. Station = 42+16 N 2,019,946.88 E 969,568.12
 P.T. Station = 43+65 N 2,020,050.55 E 969,462.10
 C.C. = N 2,019,732.25 E 969,254.54
 Back = N 34° 23' 25" W
 Ahead = N 56° 53' 35" W
 Chord Bear = N 45° 38' 30" W

Course from PT LAKEWD-6 to PC LAKEWD-7 N 56° 53' 35" W Dist 136.08

Curve Data

Curve LAKEWD-7
 P.I. Station = 45+46 N 2,020,149.84 E 969,310.52
 Delta = 8° 36' 05" (RT)
 Degree = 9° 32' 57"
 Tangent = 45.12
 Length = 90.07
 Radius = 600.00
 External = 1.69
 Long Chord = 89.99
 Mid. Ord. = 1.69
 P.C. Station = 45+01 N 2,020,124.88 E 969,348.11
 P.T. Station = 45+91 N 2,020,180.14 E 969,277.09
 C.C. = N 2,020,624.72 E 969,680.01
 Back = N 56° 24' 56" W
 Ahead = N 47° 48' 52" W
 Chord Bear = N 52° 06' 54" W

Curve Data

Curve LAKEWD-8
 P.I. Station = 46+69 N 2,020,234.76 E 969,222.04
 Delta = 45° 29' 06" (RT)
 Degree = 30° 58' 10"
 Tangent = 77.55
 Length = 146.87
 Radius = 185.01
 External = 15.60
 Long Chord = 143.04
 Mid. Ord. = 14.38
 P.C. Station = 45+91 N 2,020,180.14 E 969,277.09
 P.T. Station = 47+38 N 2,020,312.31 E 969,222.39
 C.C. = N 2,020,311.47 E 969,407.40
 Back = N 45° 13' 25" W
 Ahead = N 0° 15' 41" E
 Chord Bear = N 22° 28' 52" W

Course from PT LAKEWD-8 to PC LAKEWD-9 N 0° 40' 27" W Dist 656.71

Curve Data

Curve LAKEWD-9
 P.I. Station = 54+39 N 2,021,013.07 E 969,214.41
 Delta = 82° 49' 07" (LT)
 Degree = 114° 35' 30"
 Tangent = 44.10
 Length = 72.27
 Radius = 50.00
 External = 16.67
 Long Chord = 66.14
 Mid. Ord. = 12.50
 P.C. Station = 53+95 N 2,020,968.98 E 969,214.66
 P.T. Station = 54+67 N 2,021,018.33 E 969,170.62
 C.C. = N 2,020,968.69 E 969,164.66
 Back = N 0° 20' 10" W
 Ahead = N 83° 09' 17" W
 Chord Bear = N 41° 44' 44" W

Course from PT LAKEWD-9 to LW7 N 83° 29' 14" W Dist 534.78

Point LW7 N 2,021,078.99 E 968,639.29 Sta 60+02

Course from LW7 to PC LAKEWD-10 N 84° 11' 04" W Dist 650.81

Curve Data

Curve LAKEWD-10
 P.I. Station = 67+29 N 2,021,152.72 E 967,915.34
 Delta = 31° 14' 19" (RT)
 Degree = 20° 50' 05"
 Tangent = 76.88
 Length = 149.93
 Radius = 275.00
 External = 10.54
 Long Chord = 148.08
 Mid. Ord. = 10.16
 P.C. Station = 66+52 N 2,021,144.93 E 967,991.83
 P.T. Station = 68+02 N 2,021,199.05 E 967,853.99
 C.C. = N 2,021,418.52 E 968,019.69
 Back = N 84° 11' 04" W
 Ahead = N 52° 56' 45" W
 Chord Bear = N 68° 33' 54" W

Course from PT LAKEWD-10 to LW8 N 52° 56' 45" W Dist 1,571.93

Point LW8 N 2,022,146.25 E 966,599.48 Sta 83+74

Ending chain LAKEWD description

LAKWOOD ROAD CONTROL POINTS

CP 1	N = 2022119.126833	E = 966628.287240	ELEVATION = 904.55
CP 3	N = 2021781.174381	E = 967107.123951	ELEVATION = 900.41
CP 4	N = 2021382.190185	E = 967635.119182	ELEVATION = 890.96
CP 6	N = 2021123.423416	E = 968020.831180	ELEVATION = 896.29
CP 7	N = 2021063.742655	E = 968672.368449	ELEVATION = 898.71
CP 9	N = 2021017.329931	E = 969206.862944	ELEVATION = 897.11
CP 11	N = 2020726.702927	E = 969231.223426	ELEVATION = 897.53
CP 12	N = 2020388.523166	E = 969234.904780	ELEVATION = 891.43
CP 14	N = 2020072.182657	E = 969504.309741	ELEVATION = 892.66
CP 15	N = 2019666.739846	E = 969710.875577	ELEVATION = 877.09
CP 17	N = 2019198.073365	E = 970109.971868	ELEVATION = 889.95
CP 18	N = 2018928.812779	E = 970466.781587	ELEVATION = 894.32
CP 20	N = 2018534.555869	E = 970632.973916	ELEVATION = 902.04
CP 21	N = 2018000.474728	E = 970645.885559	ELEVATION = 906.58
CP 22	N = 2017540.215229	E = 970628.065816	ELEVATION = 905.05
CP 24	N = 2017149.885318	E = 970625.043194	ELEVATION = 897.69

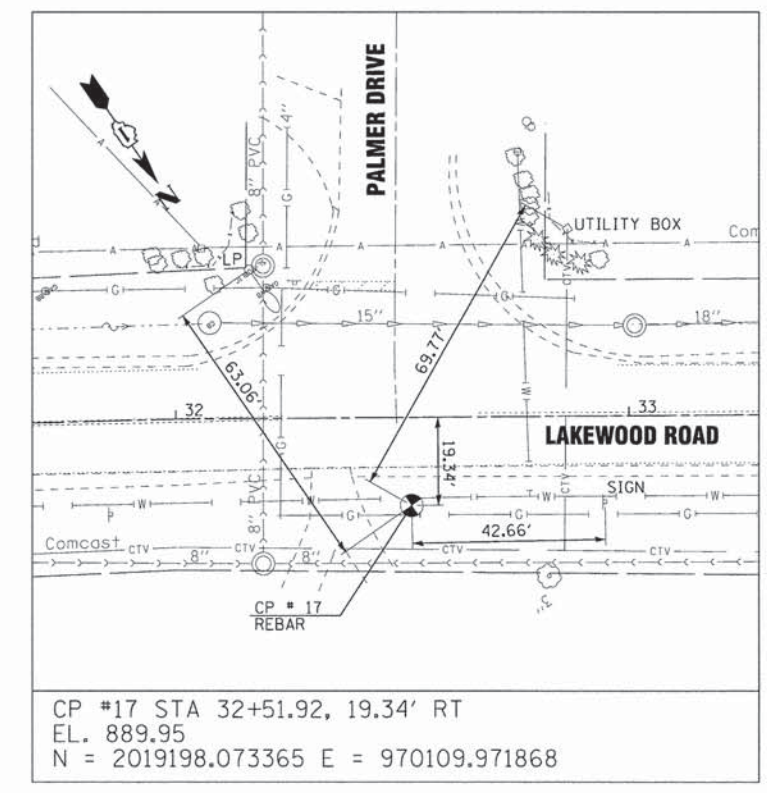
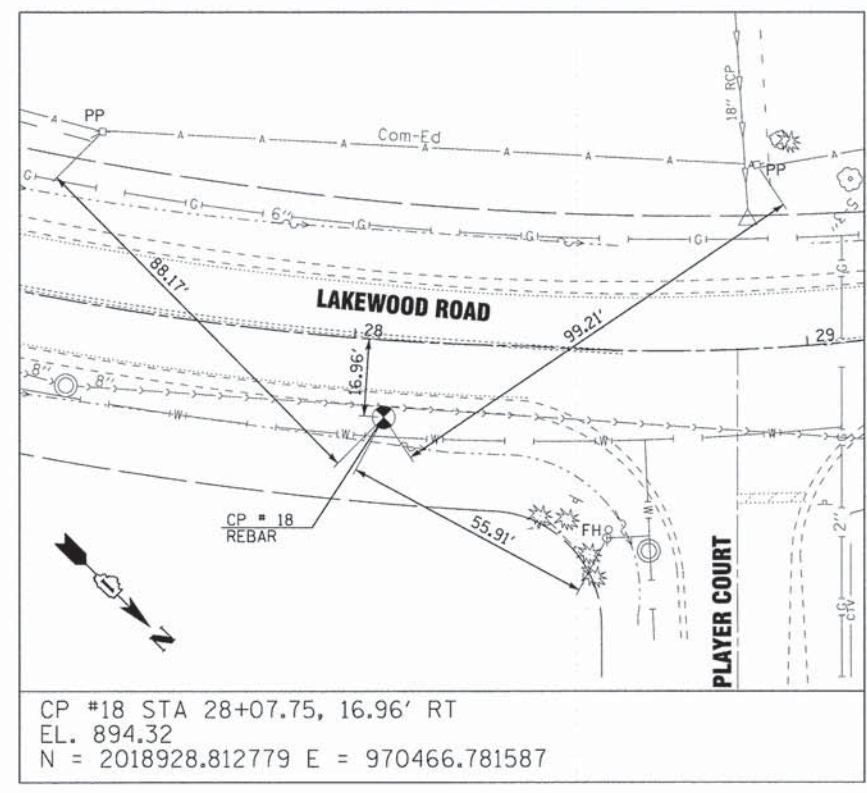
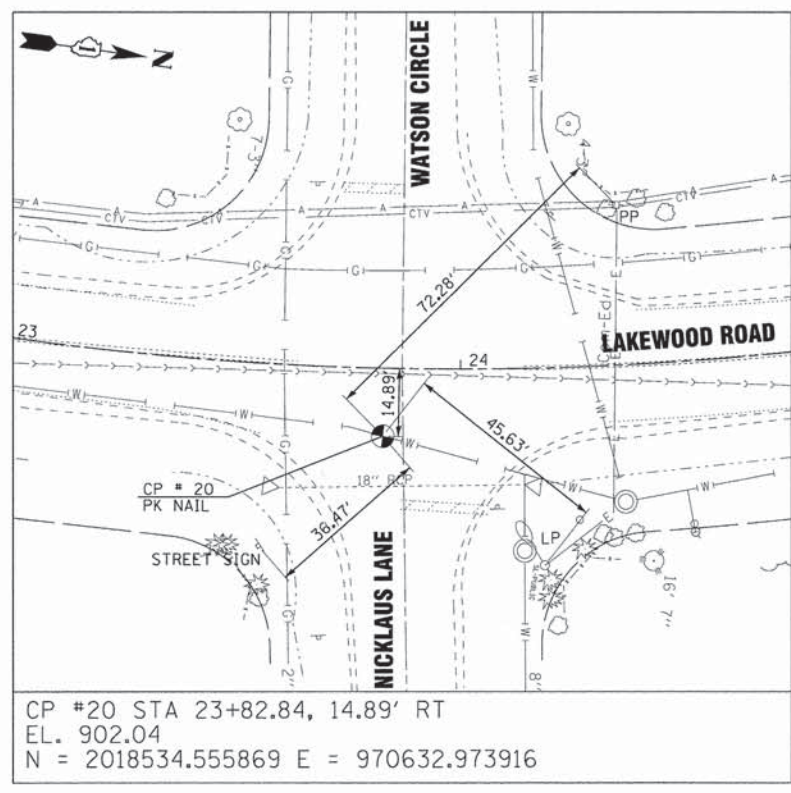
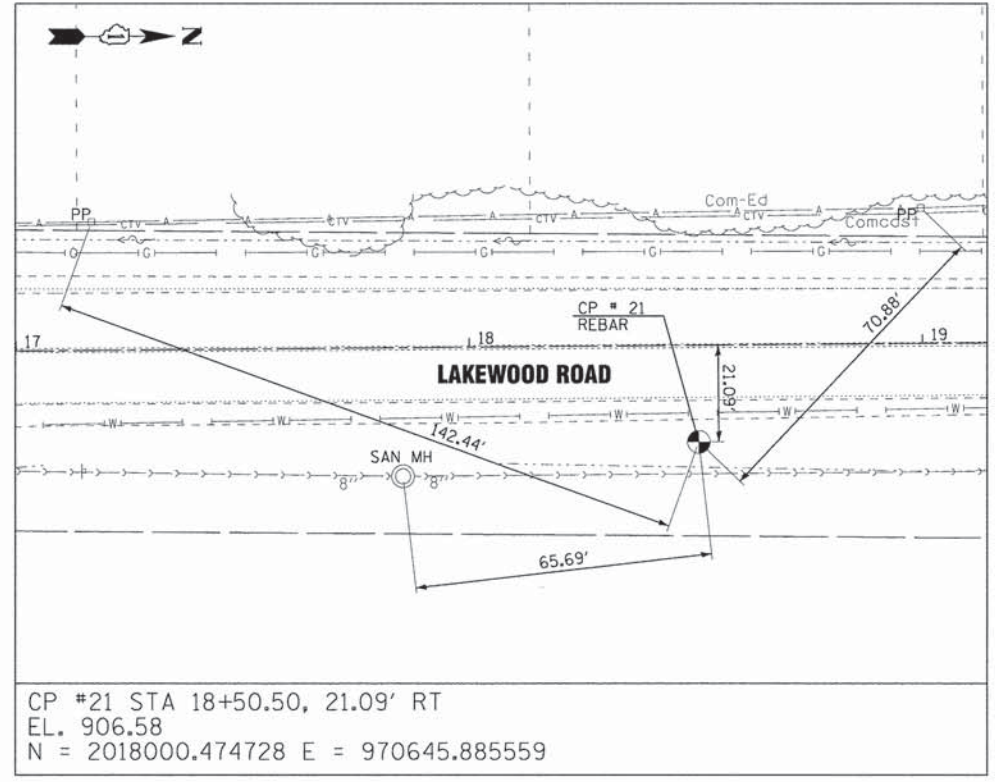
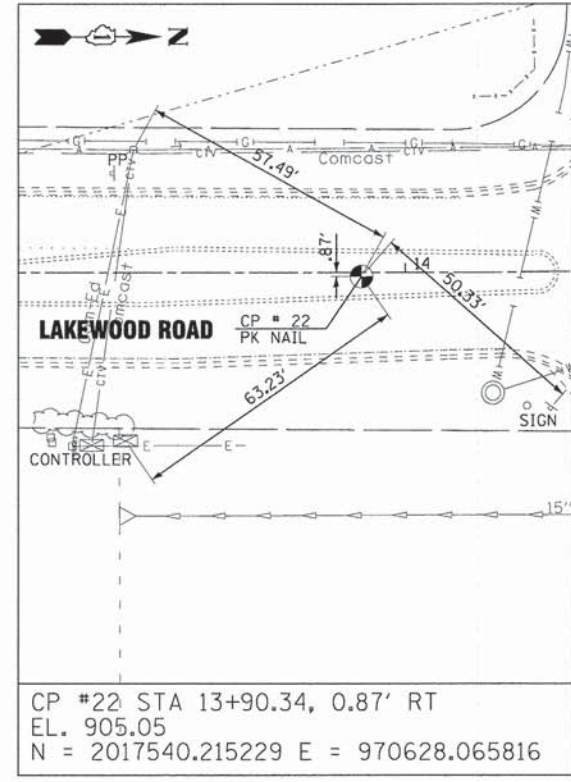
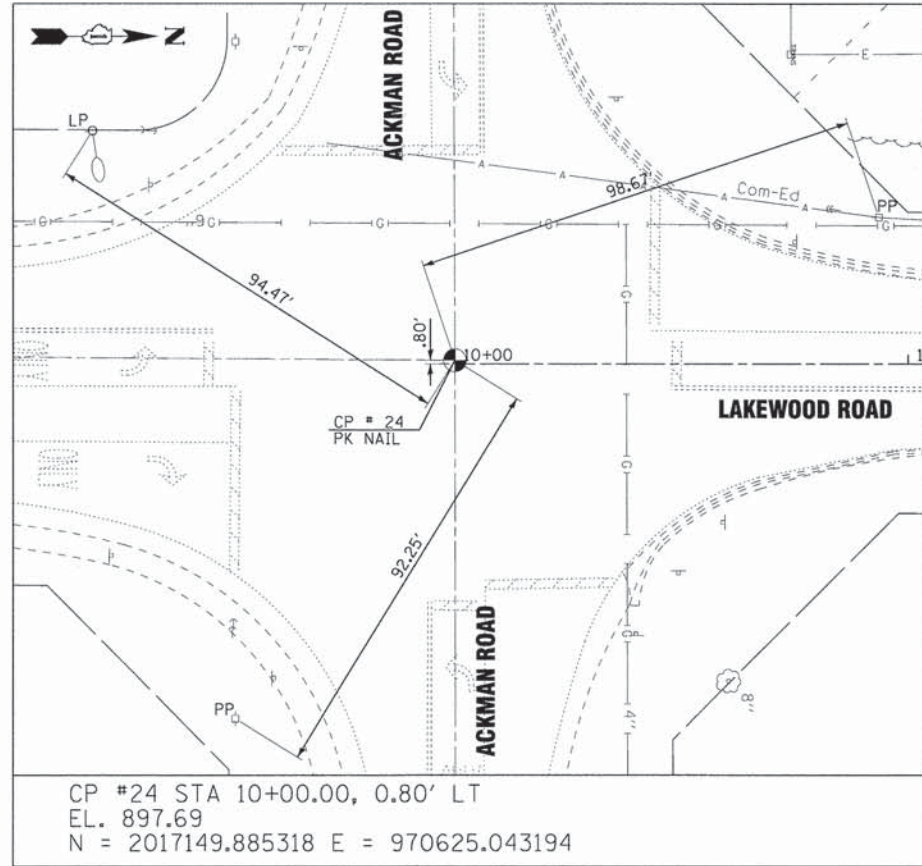
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 DATE: 8/20/2014

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	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154-SH-PH2-AlignTies1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES	
LAKWOOD ROAD	
SCALE:	STA. TO STA.

F.A.U. RTE. 3870	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 15
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



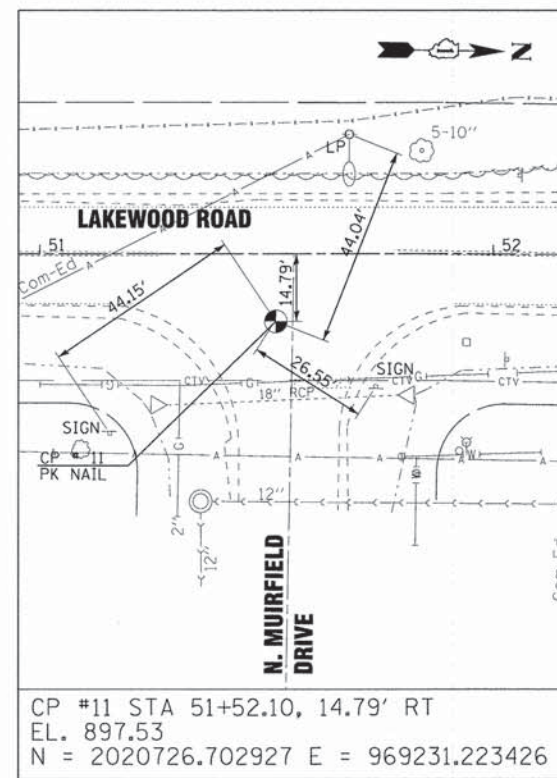
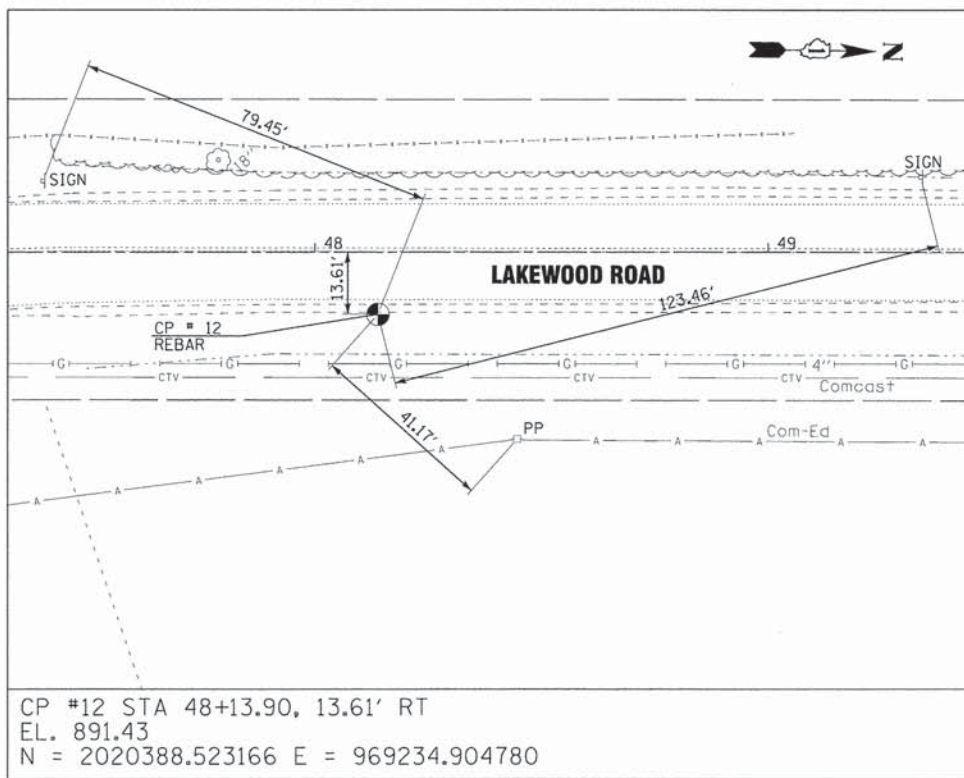
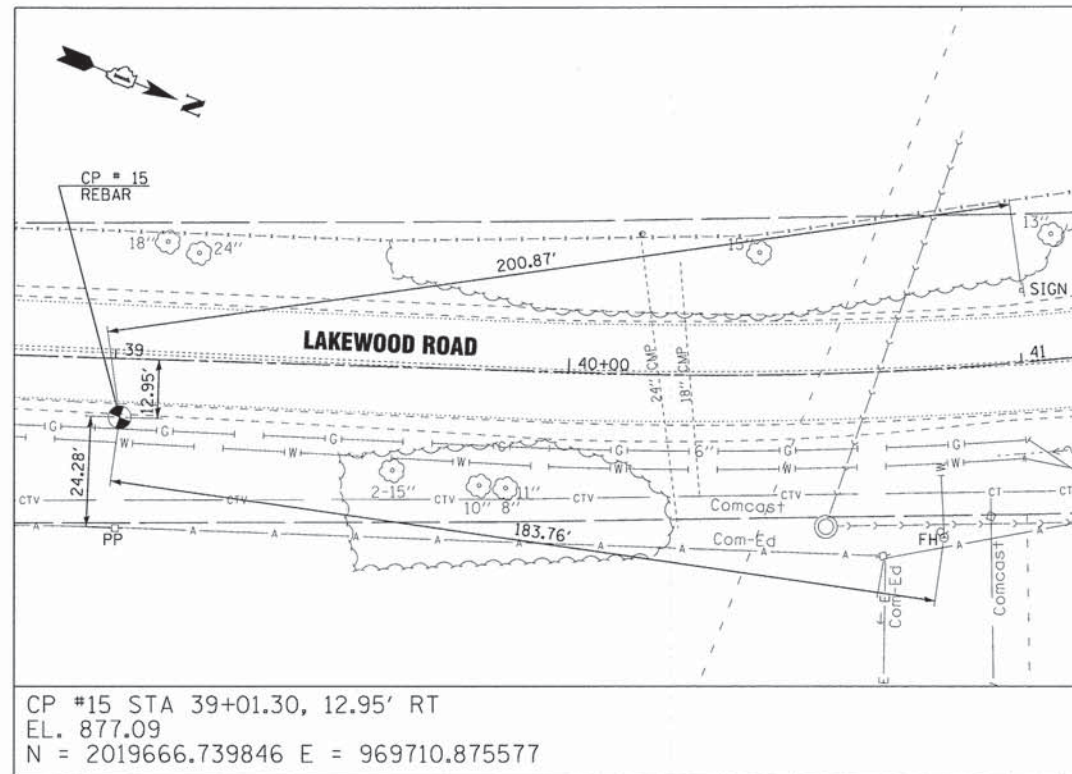
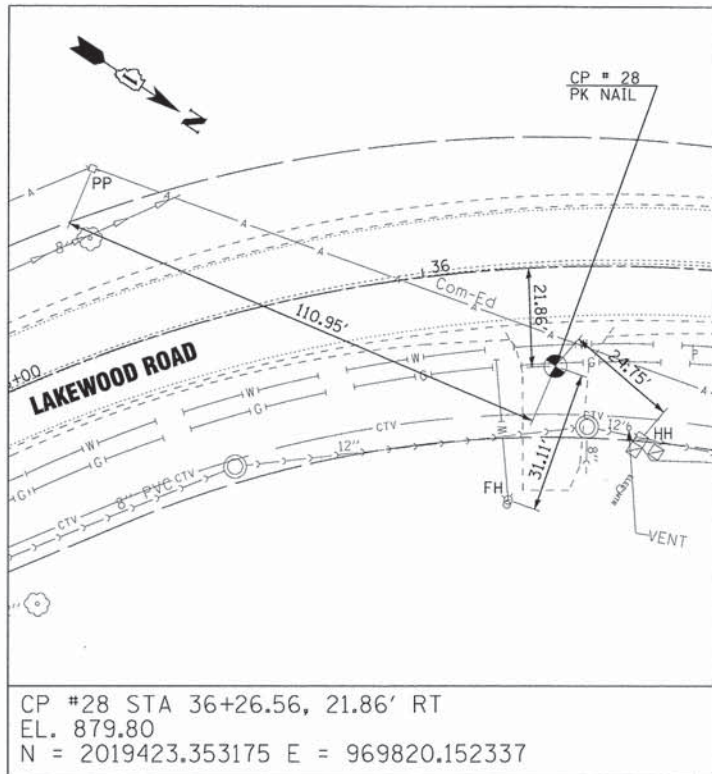
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 DATE: 8-20-14
 DRAWN: UKB
 CHECKED: DSH
 DESIGNED: JDM
 REVISIONS: -
 FILE: 130154-SH-PH2-AlignTies2.dgn

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	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154-SH-PH2-AlignTies2.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT AND TIES LAKEWOOD ROAD	
SCALE: 1" = 20'	STA. TO STA.

F.A.U. RTE. 3870 018	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 16
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



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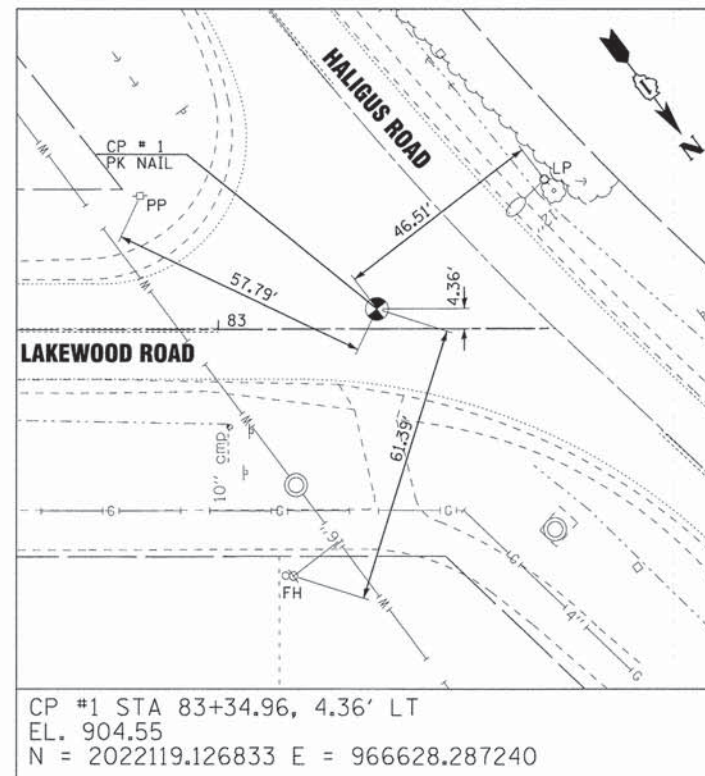
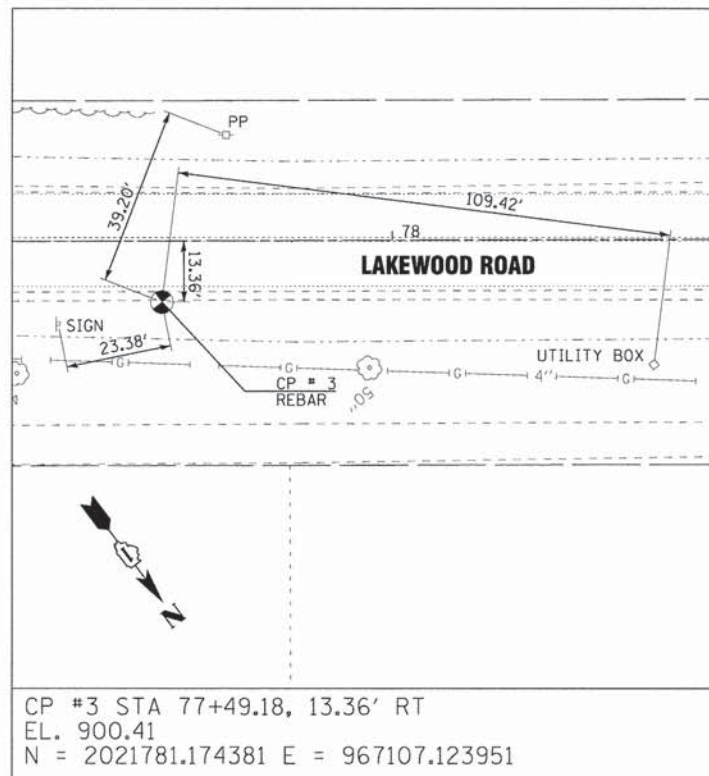
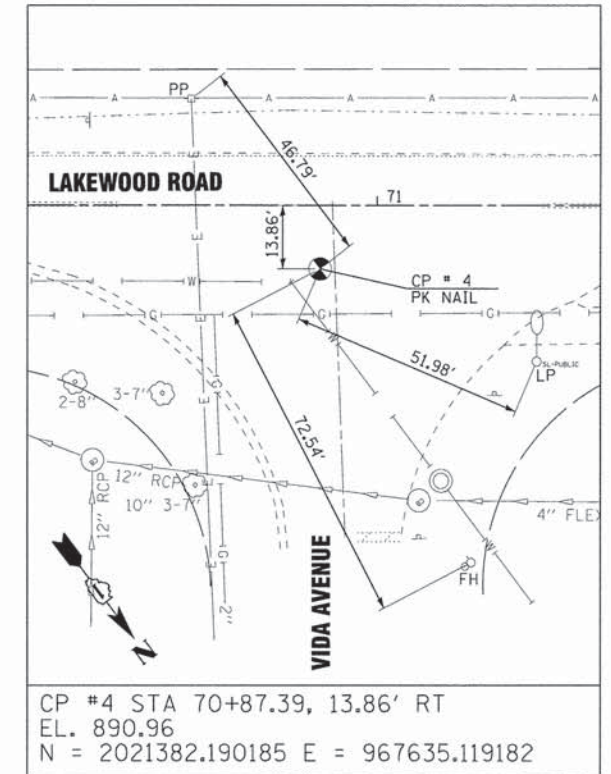
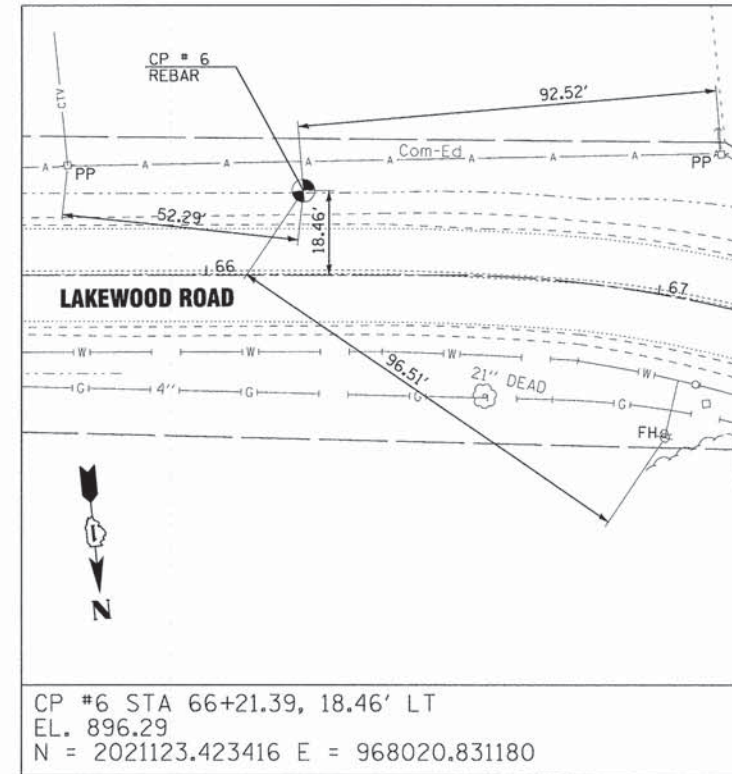
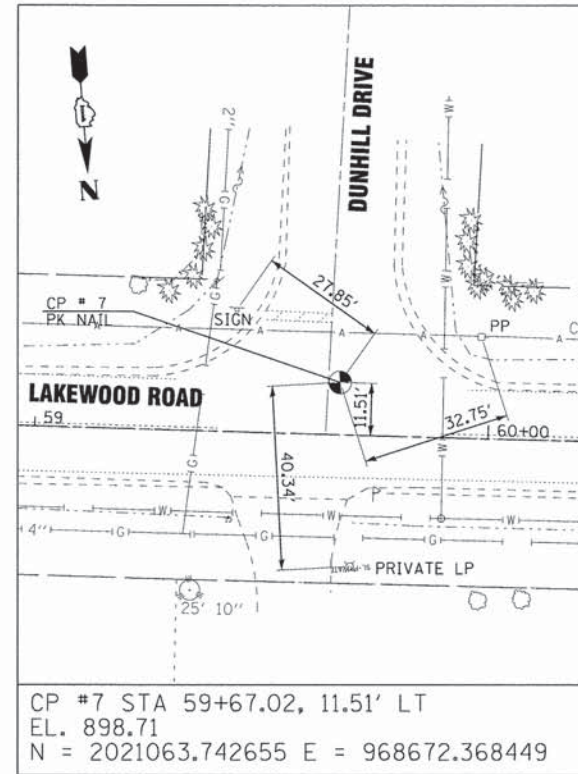
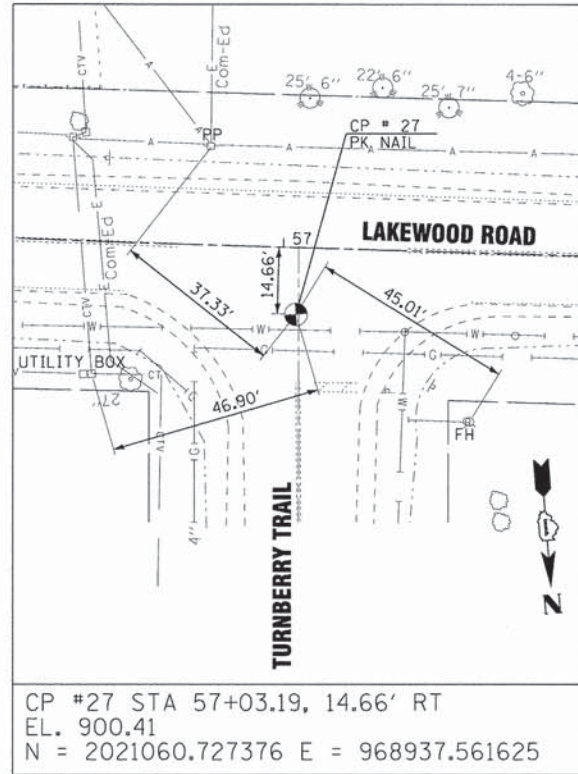
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	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154_SH-PH2-AlignTies2.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES
LAKEWOOD ROAD

SCALE: 1" = 20'
STA. TO STA.

F.A.U. RTE. 1370 DIS	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 17
C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40031217				



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT AND TIES LAKEWOOD ROAD		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		3870 918	13-00012-00-BT	McHENRY	86	18
SCALE: 1" = 20'		STA.	TO STA.	CONTRACT NO. 61A78		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



PROP. CURVE LAKEST-1
 PI STA. = 110+88.57
 $\Delta = 5^\circ 35' 23''$ (RT)
 $D = 2^\circ 37' 40''$
 $R = 2,180.46'$
 $T = 106.45'$
 $L = 212.72'$
 $E = 2.60'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 109+82.12$
 $P.T. STA. = 111+94.84$

PROP. CURVE LAKEST-2
 PI STA. = 112+60.85
 $\Delta = 42^\circ 46' 59''$ (RT)
 $D = 34^\circ 00' 02''$
 $R = 168.51'$
 $T = 66.01'$
 $L = 125.83'$
 $E = 12.47'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 111+94.84$
 $P.T. STA. = 113+20.67$

PROP. CURVE LAKEST-3
 PI STA. = 113+75.82
 $\Delta = 23^\circ 05' 08''$ (RT)
 $D = 21^\circ 13' 14''$
 $R = 270.00'$
 $T = 55.14'$
 $L = 108.79'$
 $E = 5.57'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 113+20.67$
 $P.T. STA. = 114+29.46$

CHAIN LAKEST CONTAINS:
 LK01 CUR LAKEST-1 CUR LAKEST-2 CUR LAKEST-3 LK02

Beginning chain LAKEST description
 =====
 Point LK01 N 2,027,698.64 E 974,544.92 Sta 100+00
 Course from LK01 to PC LAKEST-1 S $89^\circ 57' 46''$ E Dist 982.12

Curve Data

Curve LAKEST-1				
P.I. Station	110+89	N	2,027,698.74	E 975,633.48
Delta	$5^\circ 35' 23''$	(RT)		
Degree	$2^\circ 37' 40''$			
Tangent	106.45			
Length	212.72			
Radius	2,180.46			
External	2.60			
Long Chord	212.64			
Mid. Ord.	2.59			
P.C. Station	109+82	N	2,027,698.00	E 975,527.04
P.T. Station	111+95	N	2,027,689.10	E 975,739.49
C.C.		N	2,025,517.60	E 975,542.06
Back	S $89^\circ 36' 19''$	E		
Ahead	S $84^\circ 48' 18''$	E		
Chord Bear	S $87^\circ 36' 00''$	E		

Curve Data

Curve LAKEST-2				
P.I. Station	112+61	N	2,027,684.25	E 975,805.32
Delta	$42^\circ 46' 59''$	(RT)		
Degree	$34^\circ 00' 02''$			
Tangent	66.01			
Length	125.83			
Radius	168.51			
External	12.47			
Long Chord	122.93			
Mid. Ord.	11.61			
P.C. Station	111+95	N	2,027,689.10	E 975,739.49
P.T. Station	113+21	N	2,027,635.97	E 975,850.34
C.C.		N	2,027,521.04	E 975,727.10
Back	S $85^\circ 47' 06''$	E		
Ahead	S $43^\circ 00' 07''$	E		
Chord Bear	S $64^\circ 23' 36''$	E		

Curve Data

Curve LAKEST-3				
P.I. Station	113+76	N	2,027,595.09	E 975,887.35
Delta	$23^\circ 05' 08''$	(RT)		
Degree	$21^\circ 13' 14''$			
Tangent	55.14			
Length	108.79			
Radius	270.00			
External	5.57			
Long Chord	108.05			
Mid. Ord.	5.46			
P.C. Station	113+21	N	2,027,635.97	E 975,850.34
P.T. Station	114+29	N	2,027,542.97	E 975,905.36
C.C.		N	2,027,454.78	E 975,650.17
Back	S $42^\circ 09' 03''$	E		
Ahead	S $19^\circ 03' 55''$	E		
Chord Bear	S $30^\circ 36' 29''$	E		

Course from PT LAKEST-3 to LK02 S $21^\circ 31' 02''$ E Dist 13.80
 Point LK02 N 2,027,530.13 E 975,910.42 Sta 114+43
 Ending chain LAKEST description
 =====

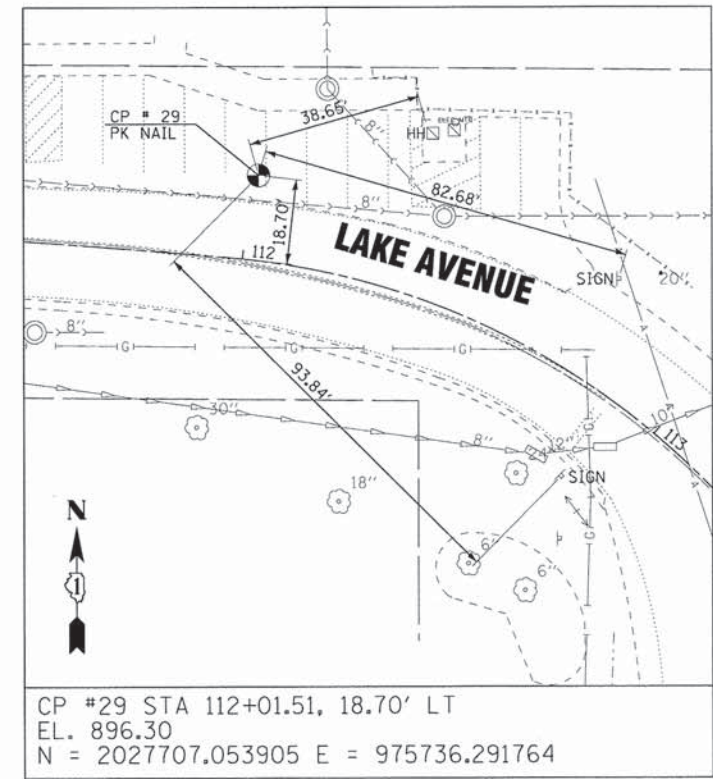
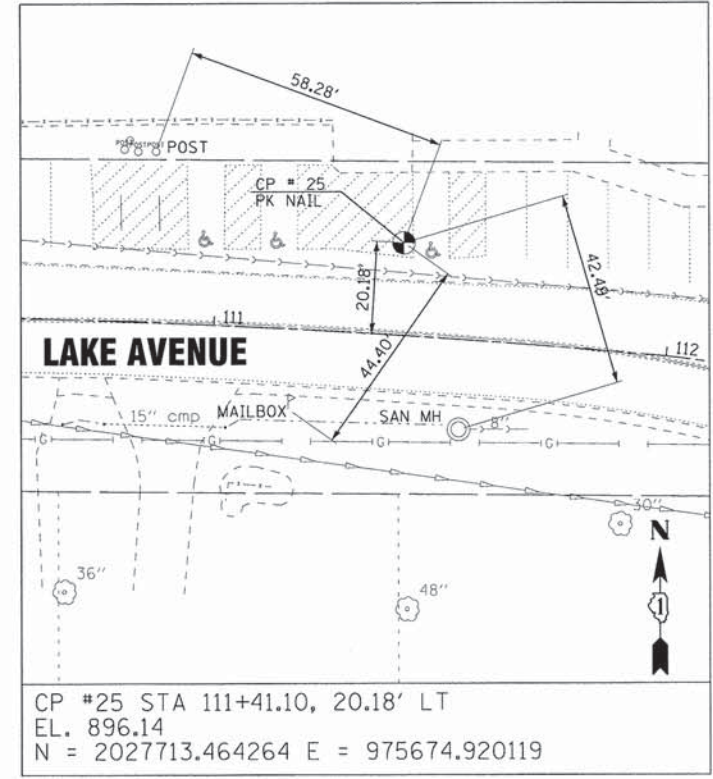
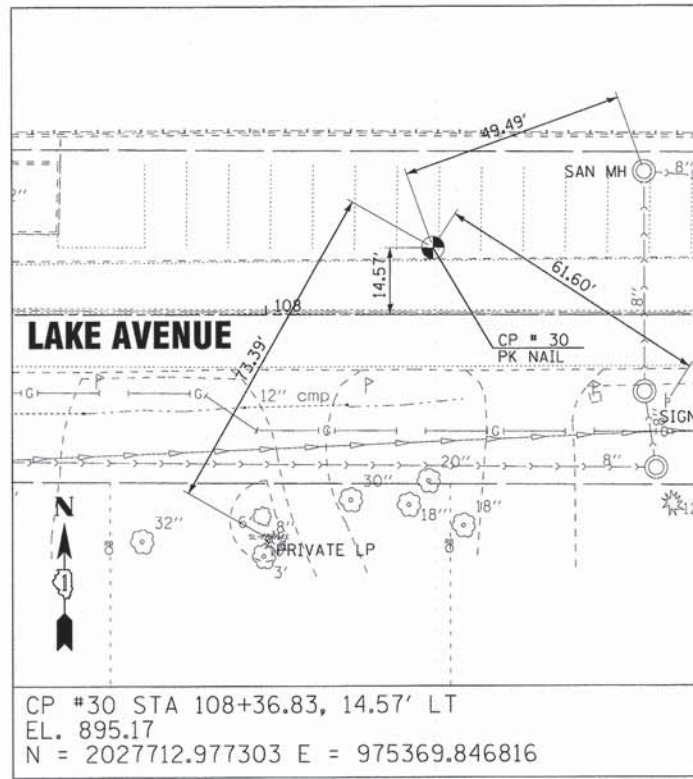
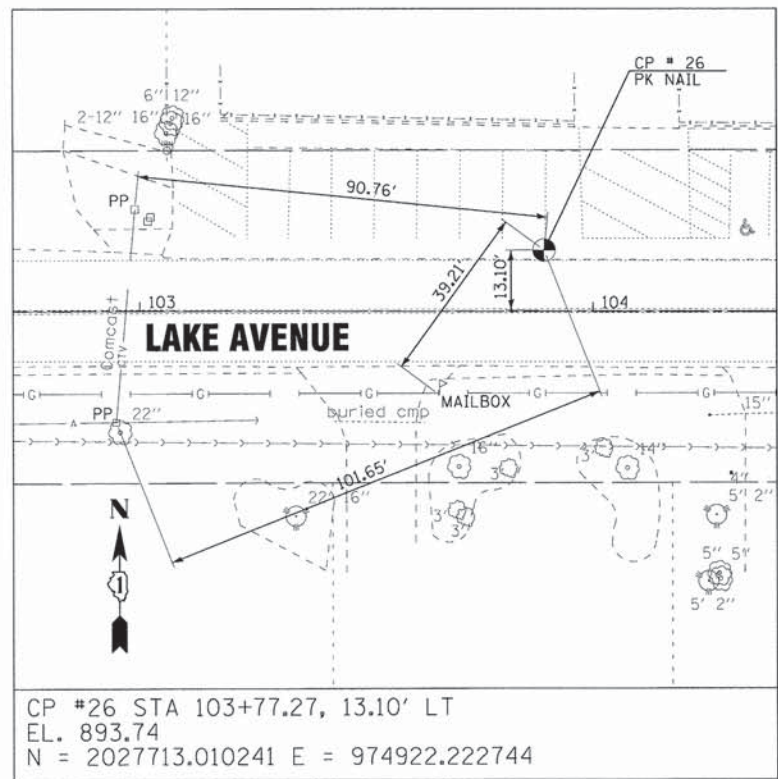
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CP 26	N = 2027713.010241	E = 974922.222744	ELEVATION = 893.74
CP 29	N = 2027707.053905	E = 975736.291764	ELEVATION = 896.30
CP 30	N = 2027712.977303	E = 975369.846816	ELEVATION = 895.17

SEE SHEET 2
 FOR BENCHMARK
 INFORMATION

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 10/20/2014
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	DRAWN - UKB	REVISED -		SCALE: 1" = 50'	STA. 100+00 TO STA. 114+43	C-91-393-13	CONTRACT NO. 61A78		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40032171	
	CHECKED - DSH	REVISED -								
	DATE - 8-20-14	FILE - 130154-SH-PH2-AlignTies3.dgn								

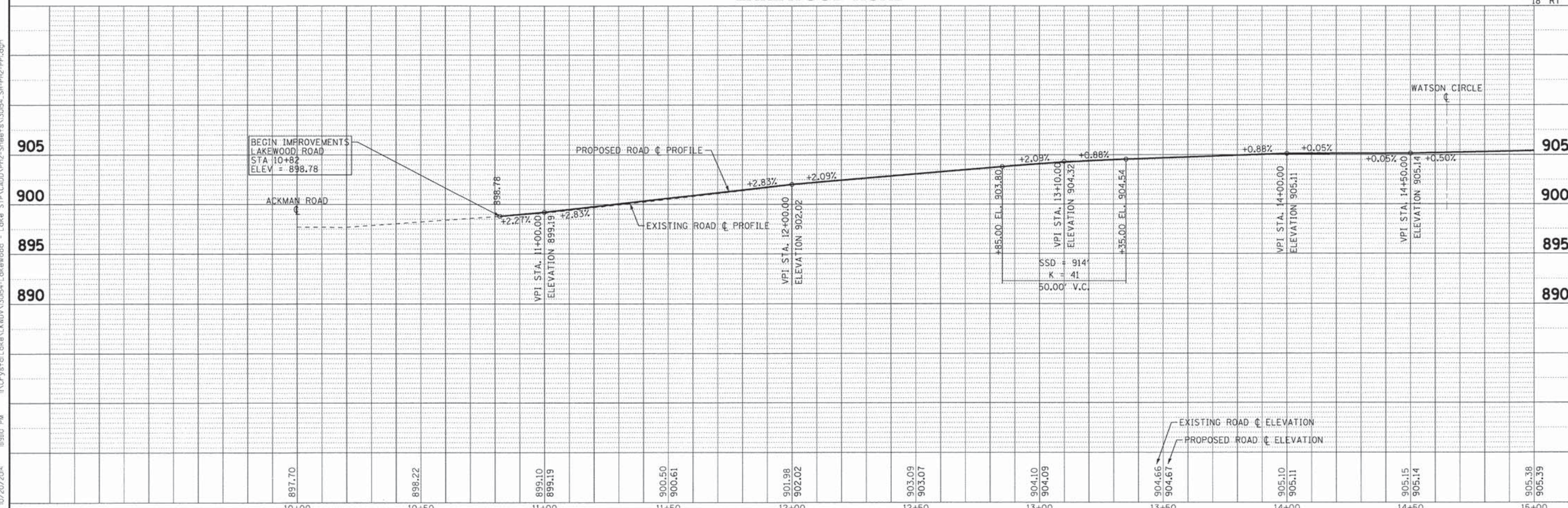
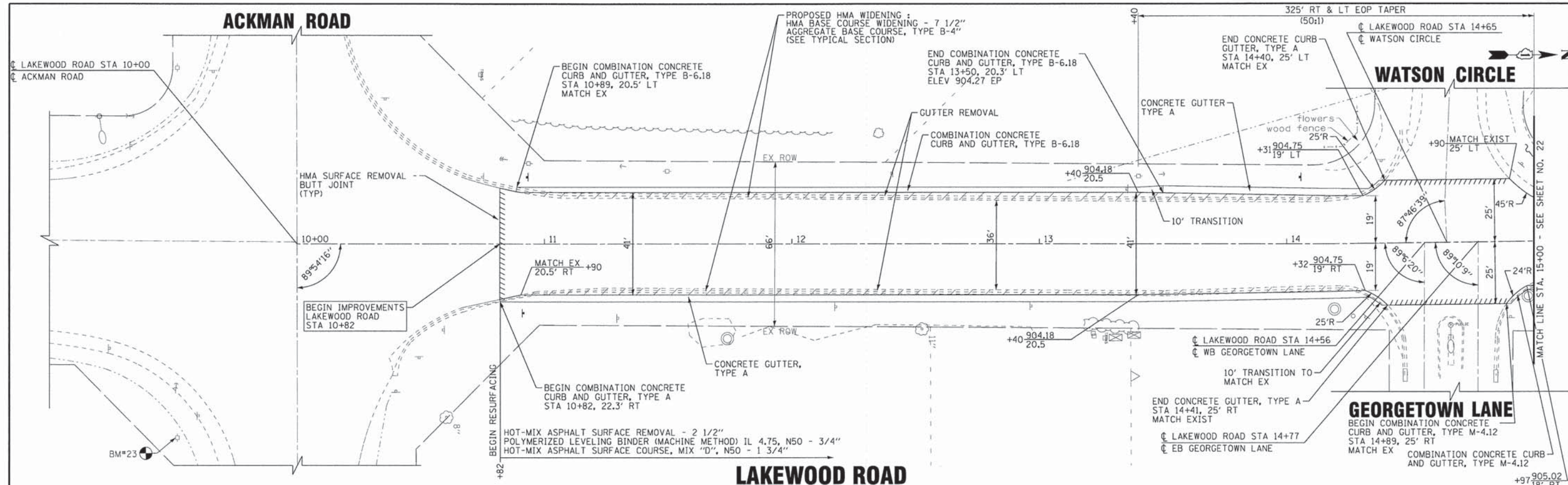


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 LICENSE NO. 121-000000-0000-0000-0000-0000
 IN CHARGE OF WORK: JAMES W. WOODMAN
 PROJECT NO. 13-00012-00-BT
 SHEET NO. 20

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	DRAWN - LKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154.SH-PH2-AlignTies4.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT AND TIES LAKE AVENUE		F.A.U. RTE. 1370 018	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 20
SCALE: 1" = 20'		STA. TO STA.		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)						

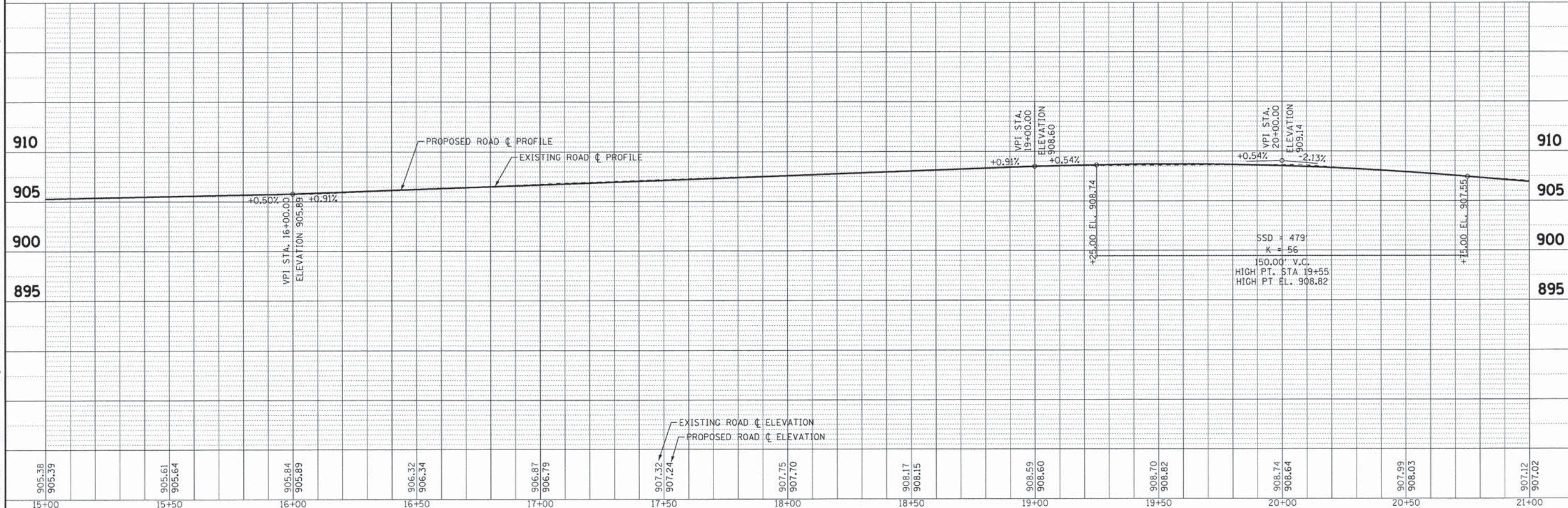
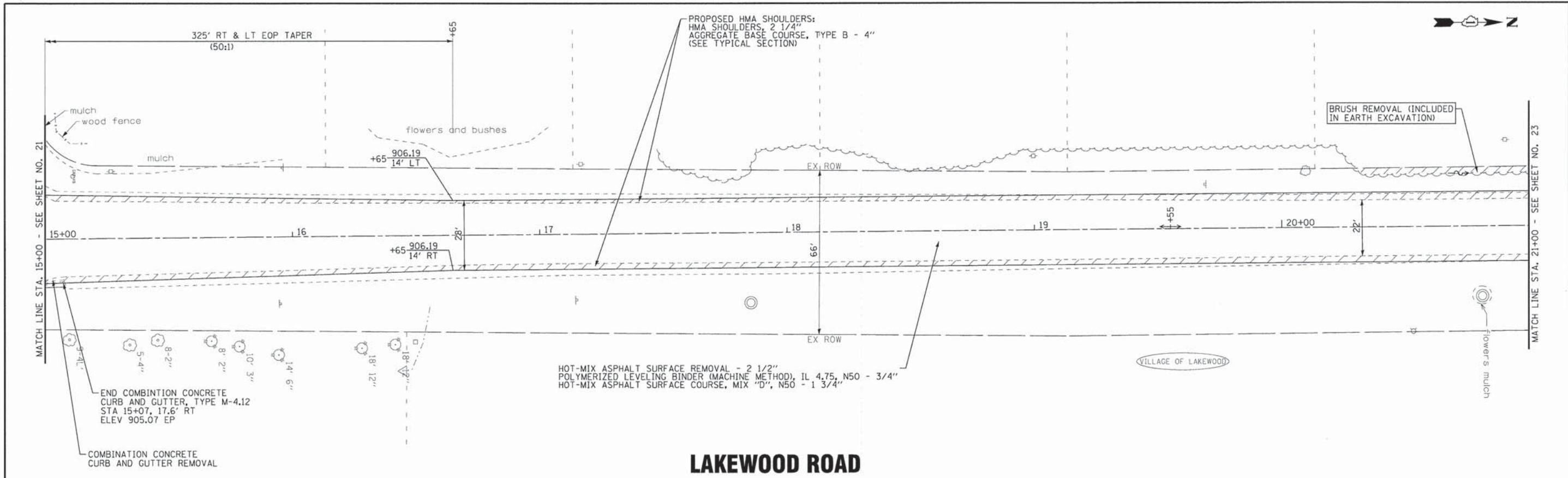


DESIGNED - JDM	REVISED - PER IDOT 10-2-14
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154.SH-PH2-PP1.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE LAKEWOOD ROAD		F.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: H: 1"=20' V: 1"=5'		3870	12-00012-00-BT	McHENRY	86	21
STA. 10+00 TO STA. 15+00		CONTRACT NO. 61A78				
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				

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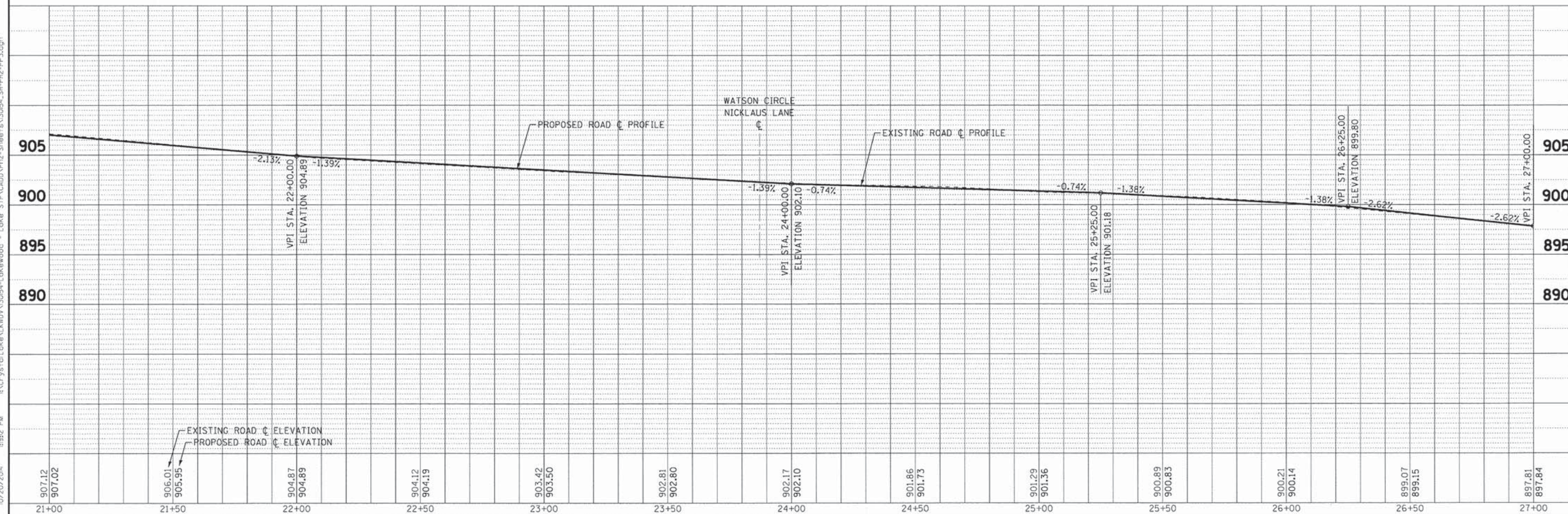
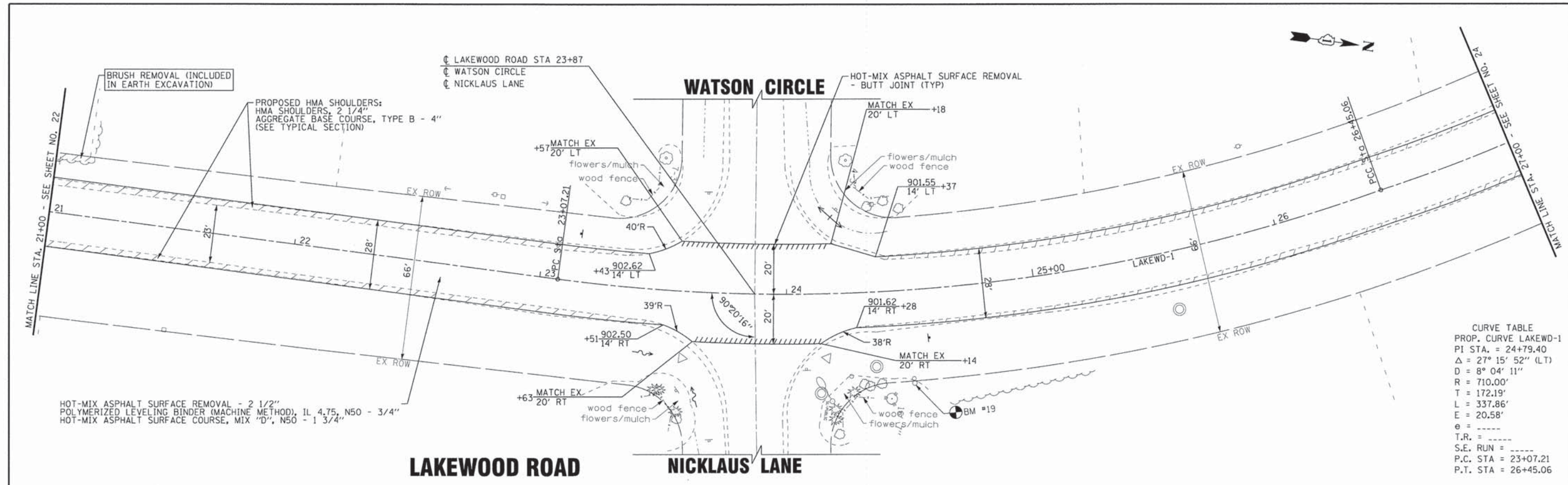


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BAXTER & WOODMAN Consulting Engineers	DESIGNED - JDM	REVISED - PER IDOT 10-2-14
	DRAWN - LKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154_SH-PH2-PP2.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE LAKEWOOD ROAD		F.A. 3870 0118	SECTION 12-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 22
SCALE: H: 1"=20' V: 1"=5'		STA. 15+00 TO STA. 21+00		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)						



907.12	907.02	906.01	905.95	904.87	904.89	904.12	904.19	903.42	903.50	902.81	902.80	902.17	902.10	901.86	901.73	901.29	901.36	900.89	900.83	900.21	900.14	899.07	899.15	897.81	897.84
21+00	21+50	22+00	22+50	23+00	23+50	24+00	24+50	25+00	25+50	26+00	26+50	27+00													

BAXTER & WOODMAN
Consulting Engineers

DESIGNED - JDM
DRAWN - UKB
CHECKED - DSH
DATE - 8-20-14

REVISED -
REVISED -
REVISED -
FILE - 130154_SH-PH2-PP3.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

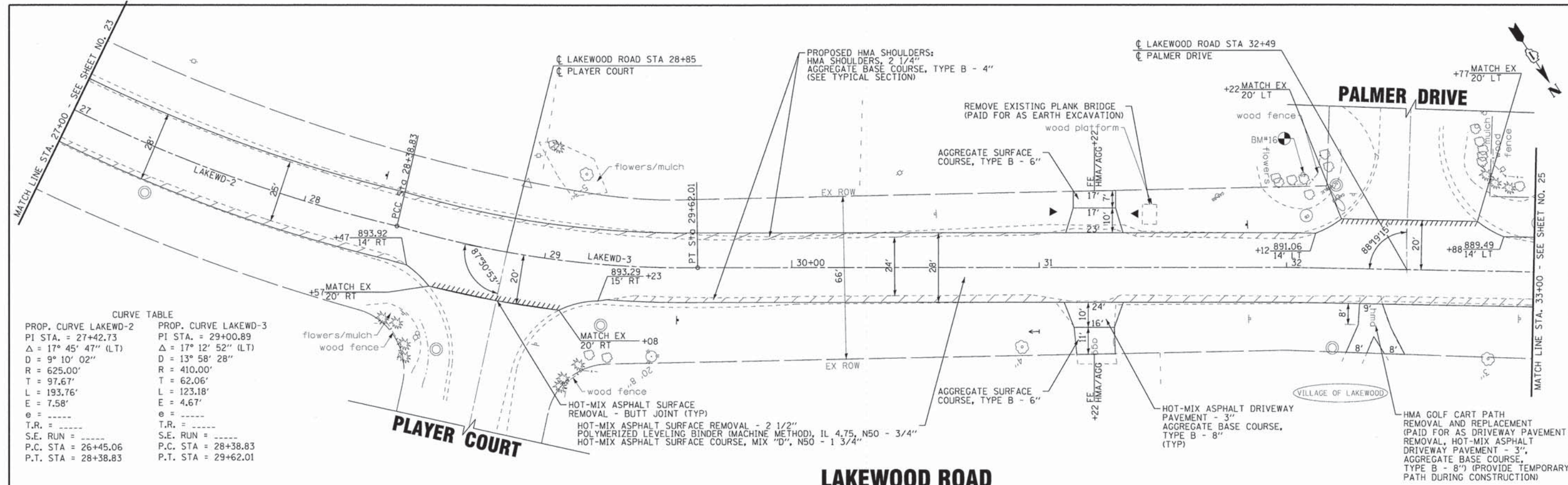
**PLAN AND PROFILE
LAKEWOOD ROAD**

SCALE: H: 1"=20' V: 1"=5'

STA. 21+00 TO STA. 27+00

F.A. RT. DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00012-00-BT	McHENRY	86	23
CONTRACT NO. 61A78			FED. AID PROJECT M-4003(217)	

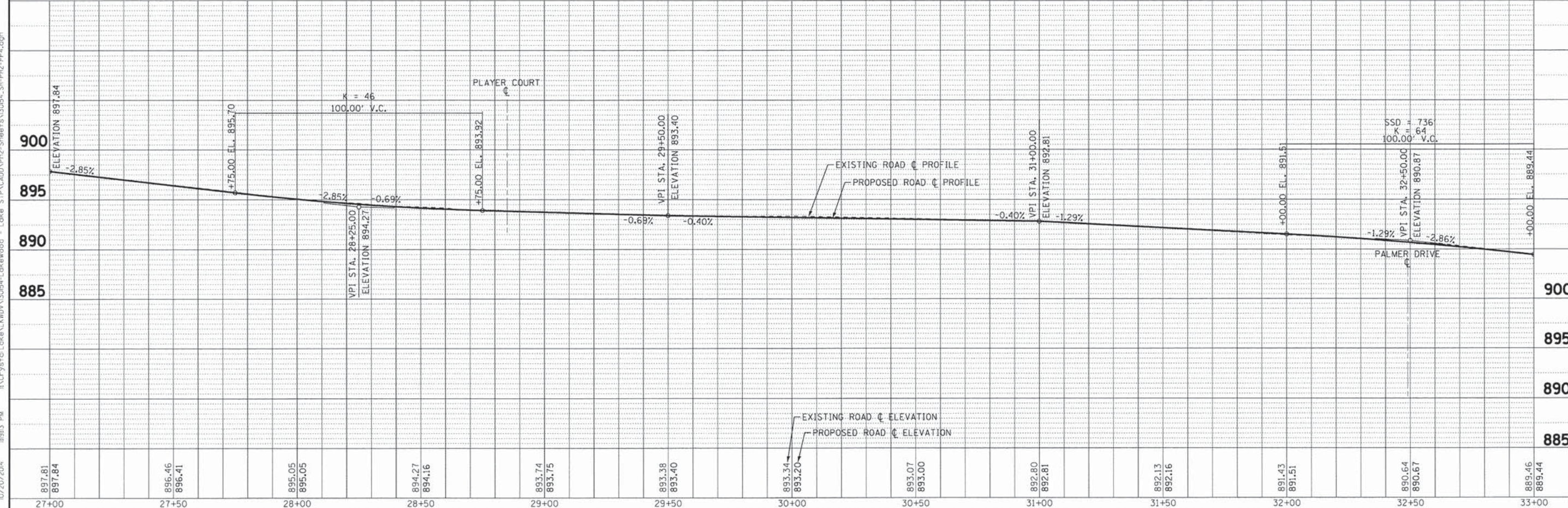
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CURVE TABLE

PROP. CURVE LAKEWD-2	PROP. CURVE LAKEWD-3
PI STA. = 27+42.73	PI STA. = 29+00.89
$\Delta = 17^\circ 45' 47''$ (LT)	$\Delta = 17^\circ 12' 52''$ (LT)
$D = 9^\circ 10' 02''$	$D = 13^\circ 58' 28''$
$R = 625.00'$	$R = 410.00'$
$T = 97.67'$	$T = 62.06'$
$L = 193.76'$	$L = 123.18'$
$E = 7.58'$	$E = 4.67'$
$e = \text{---}$	$e = \text{---}$
$T.R. = \text{---}$	$T.R. = \text{---}$
$S.E. RUN = \text{---}$	$S.E. RUN = \text{---}$
P.C. STA = 26+45.06	P.C. STA = 28+38.83
P.T. STA = 28+38.83	P.T. STA = 29+62.01

LAKWOOD ROAD



DESIGNED - JDM	REVISED - PER IDOT 10-2-14
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-PP4.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

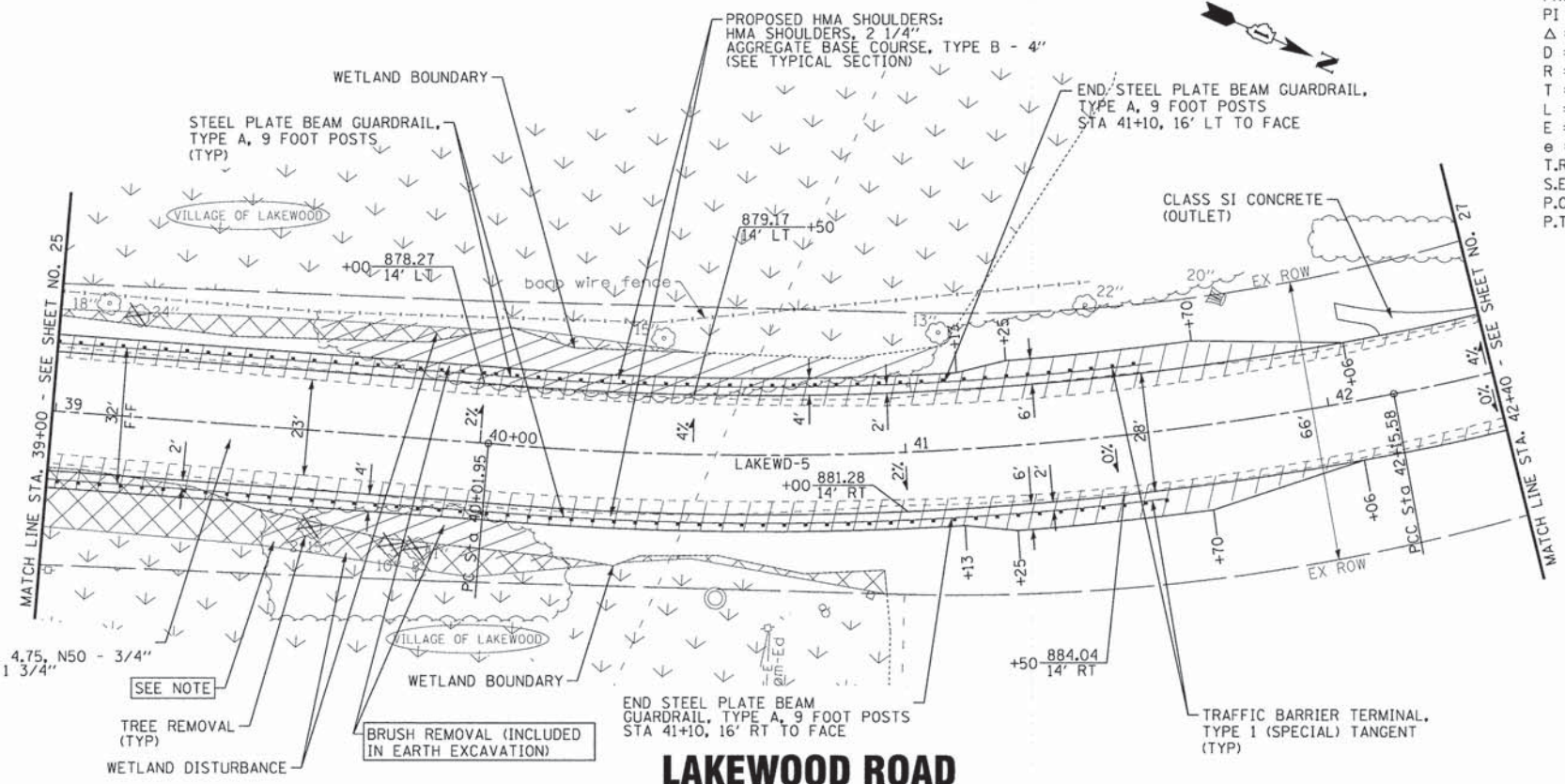
PLAN AND PROFILE		LAKWOOD ROAD	
SCALE: H: 1"=20' V: 1"=5'		STA. 27+00 TO STA. 33+00	
F.A. RT# 1810 018	SECTION 12-00012-00-BT	COUNTY MCHENRY	TOTAL SHEETS 86
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-40031217	SHEET NO. 24
		CONTRACT NO. 61A78	

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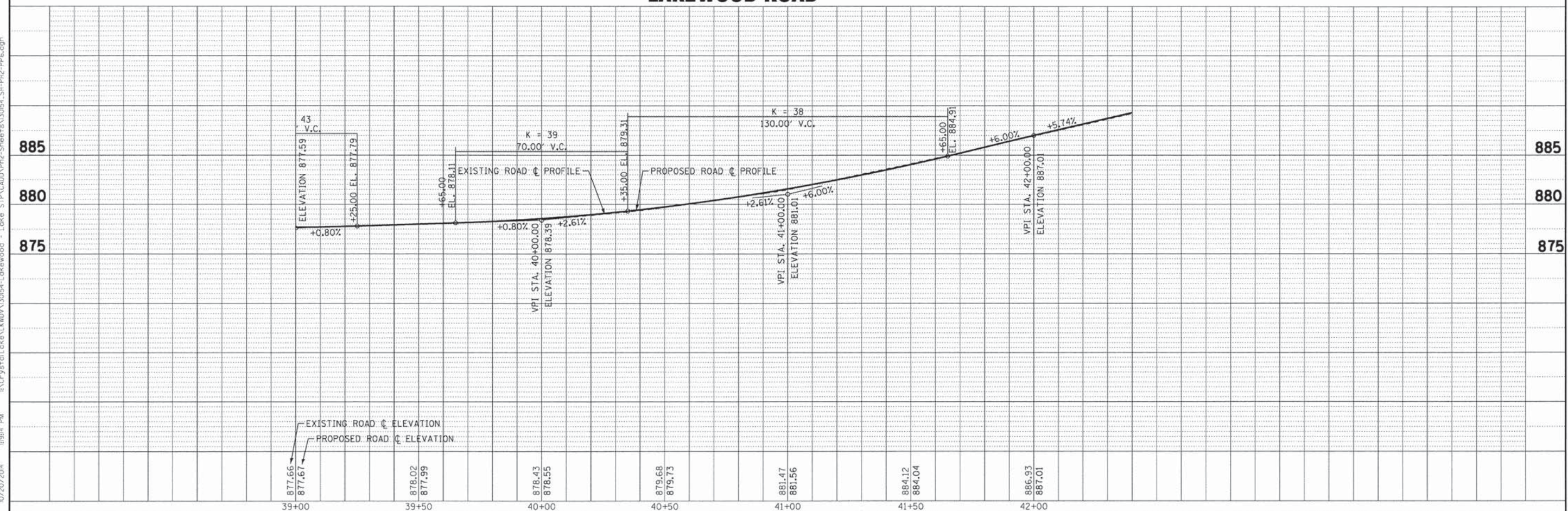
CURVE TABLE
 PROP. CURVE LAKEWD-5
 PI STA. = 41+09.47
 $\Delta = 16^{\circ} 00' 00''$ (LT)
 $D = 7^{\circ} 29' 23''$
 $R = 765.00'$
 $T = 107.51'$
 $L = 213.63'$
 $E = 7.52'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. \text{ RUN} = \text{---}$
 $P.C. \text{ STA} = 40+01.95$
 $P.T. \text{ STA} = 42+15.58$

HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/2"
 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50 - 3/4"
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 1 3/4"

NOTE: EXISTING WETLAND SOILS SHALL BE USED FOR PERMANENT RESTORATION PROVIDING AT LEAST 6" OF SEED BED MATERIAL IN WETLAND DISTURBANCE AREAS. EXISTING WETLAND SOILS MAY BE STOCKPILED AT A LOCATION APPROVED BY THE ENGINEER, BUT SHALL NOT BE STOCKPILED IN FLOODPLAIN AREAS, WETLANDS, OR DITCHES. STOCKPILES SHALL BE STABILIZED WITH TEMPORARY SEED AND SURROUNDED BY SILT FENCE AS REQUIRED. THIS EXTRA HANDLING SHALL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.



LAKEWOOD ROAD



DESIGNED - JDM	REVISED - PER IDOT 10-2-14
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-PP6.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: H: 1"=20' V: 1"=5'		STA. 39+00 TO STA. 42+40		F.A. RTE. 12-00012-00-BT		COUNTY McHENRY		TOTAL SHEETS 86		SHEET NO. 26	
CONTRACT NO. 61A78										FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003217	

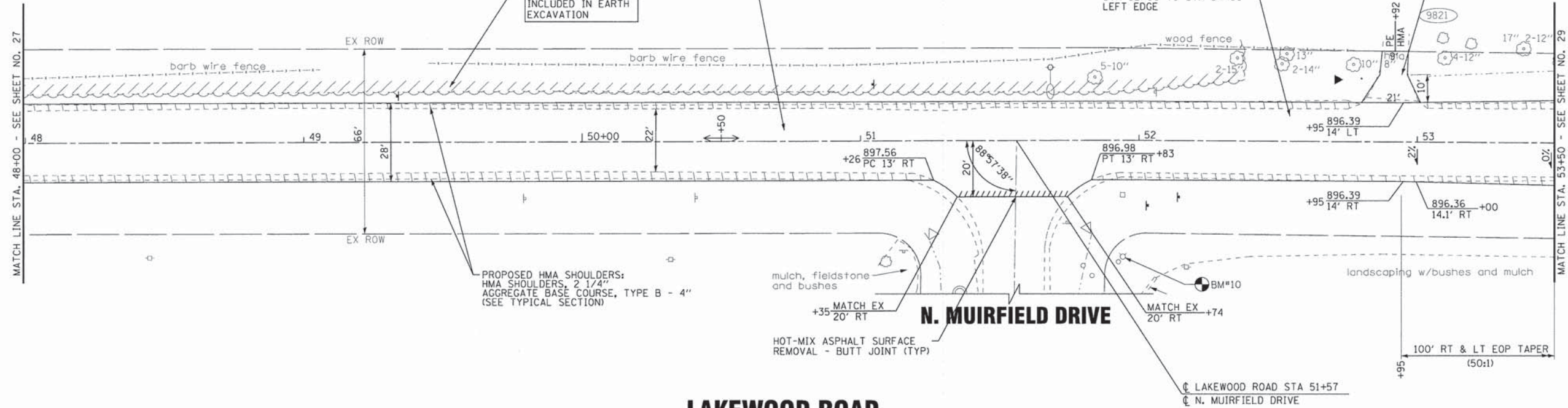
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 ...\\Phase 2\130154-PH2-B&W.tbl
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HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/2"
 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50 - 3/4"
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 1 3/4"

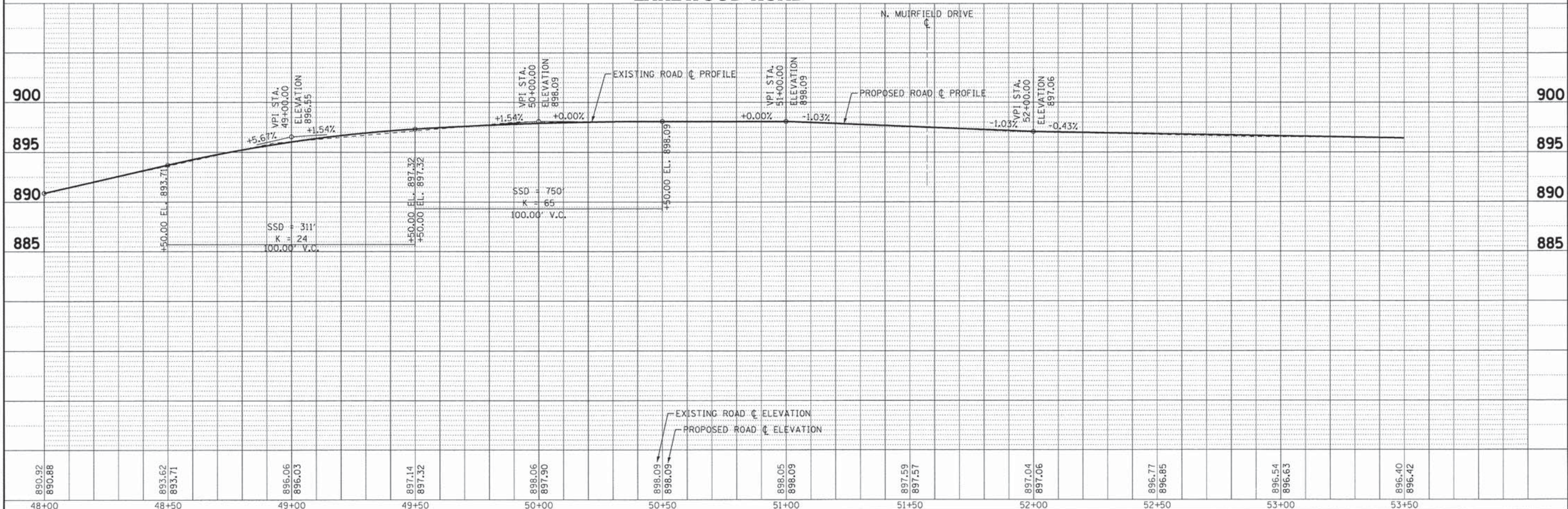
BRUSH REMOVAL
 (AS REQUIRED)
 INCLUDED IN EARTH
 EXCAVATION

CROWN CORRECTION
 HOT-MIX ASPHALT BINDER
 COURSE, IL-19.0, N50
 STA 52+00 TO STA 54+00
 LEFT EDGE

DRIVEWAY PAVEMENT REMOVAL
 HOT-MIX ASPHALT DRIVEWAY, 3"
 AGG BASE COURSE, TY B, 8"
 (TYP)



LAKWOOD ROAD



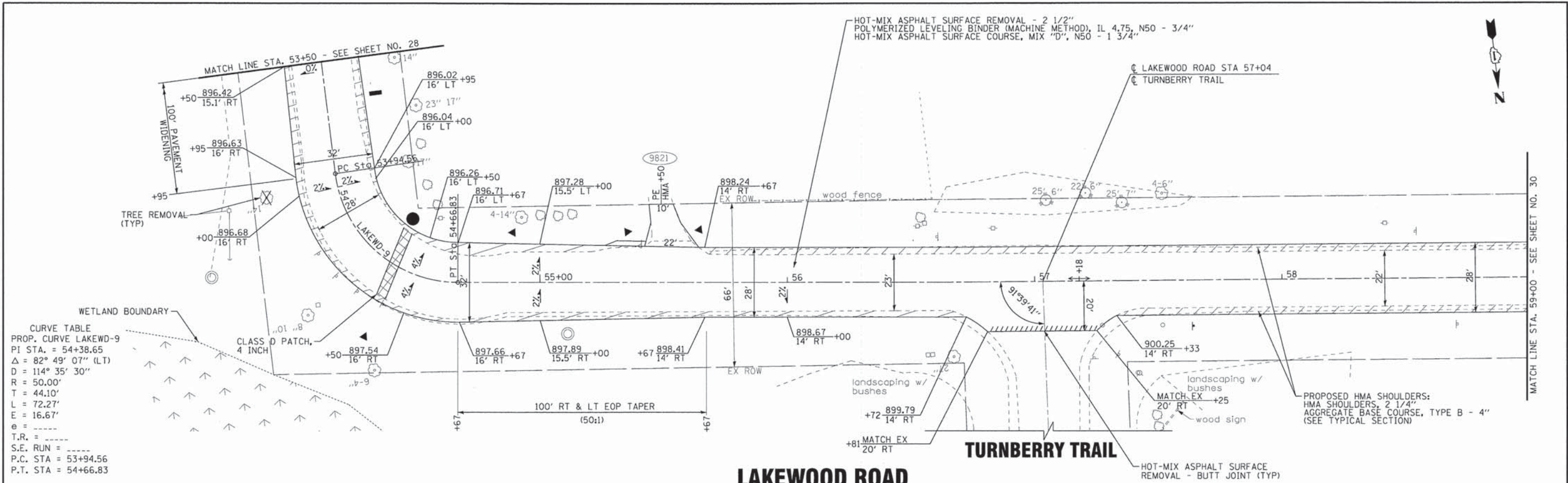
BAXTER & WOODMAN
 Consulting Engineers

DESIGNED - JDM	REVISED - PER IDOT 10-2-14
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - I30154.SH-PH2-PP8.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

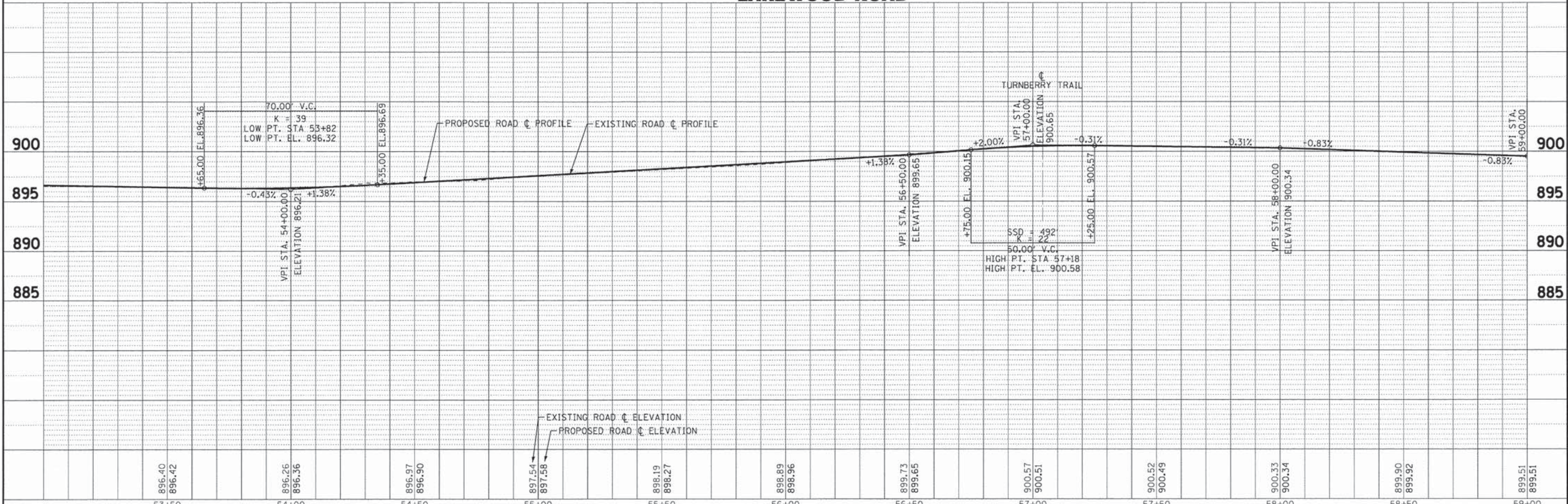
PLAN AND PROFILE LAKEWOOD ROAD		F.A. RT. 3870 01B	SECTION 12-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 28
		SCALE: H: 1"=20' V: 1"=5' STA. 48+00 TO STA. 53+50			CONTRACT NO. 61A78 FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(217)	

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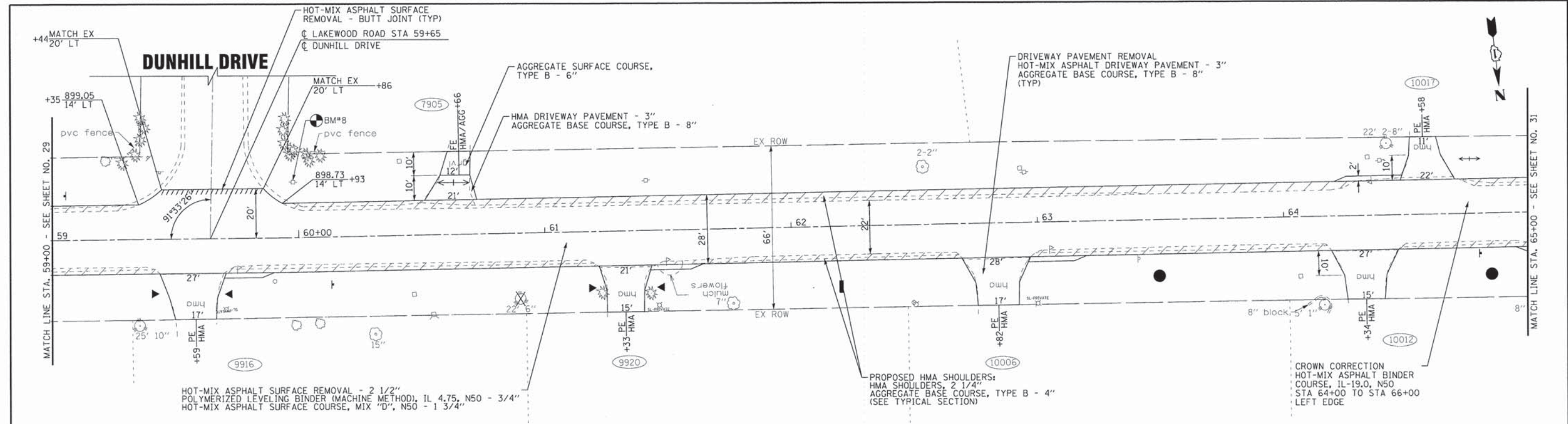
LAKEWOOD ROAD

TURNBERRY TRAIL

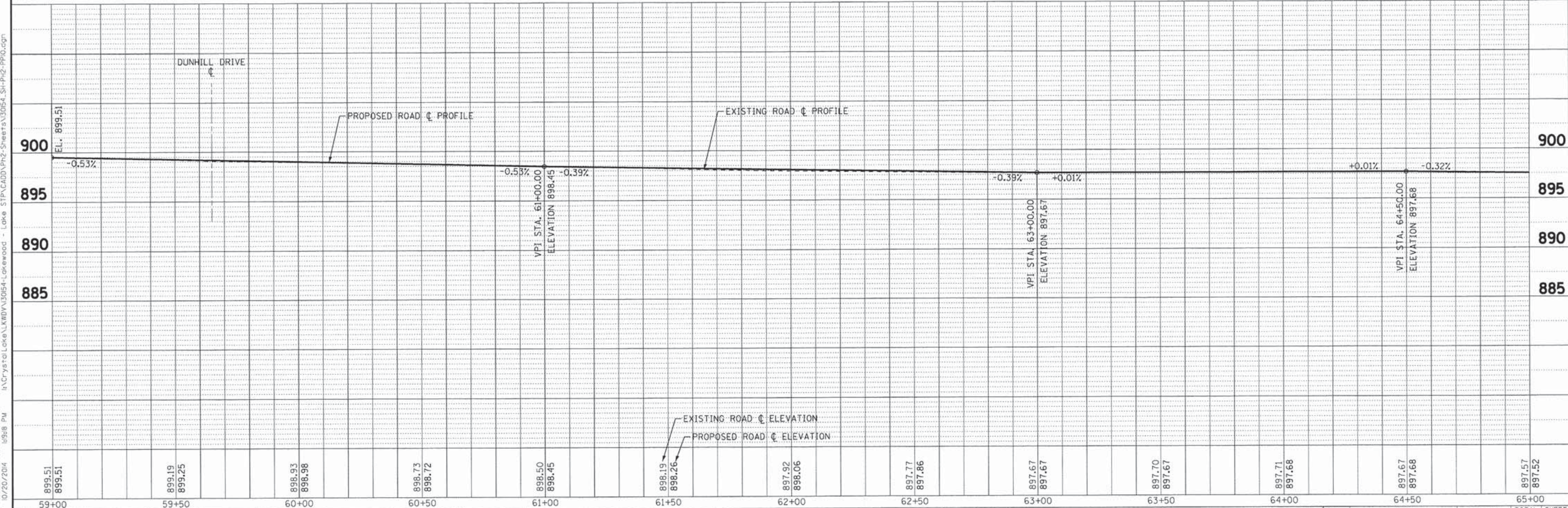


DESIGNED - JDM	REVISED - PER IDOT 10-2-14	BAXTER & WOODMAN Consulting Engineers	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE LAKEWOOD ROAD		F.A. RT. 3810 018	SECTION 12-00012-00-BT	COUNTY MCHENRY	TOTAL SHEETS 86	SHEET NO. 29	
DRAWN - UKB	REVISED -			SCALE: H: 1"=20' V: 1"=5'		STA. 53+50	TO STA. 59+00	FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(217)			
CHECKED - DSH	REVISED -			DATE - 8-20-14		FILE - 130154.SH-PH2-PP9.dgn		CONTRACT NO. 61A78			
DATE - 8-20-14	FILE - 130154.SH-PH2-PP9.dgn										

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LAKWOOD ROAD



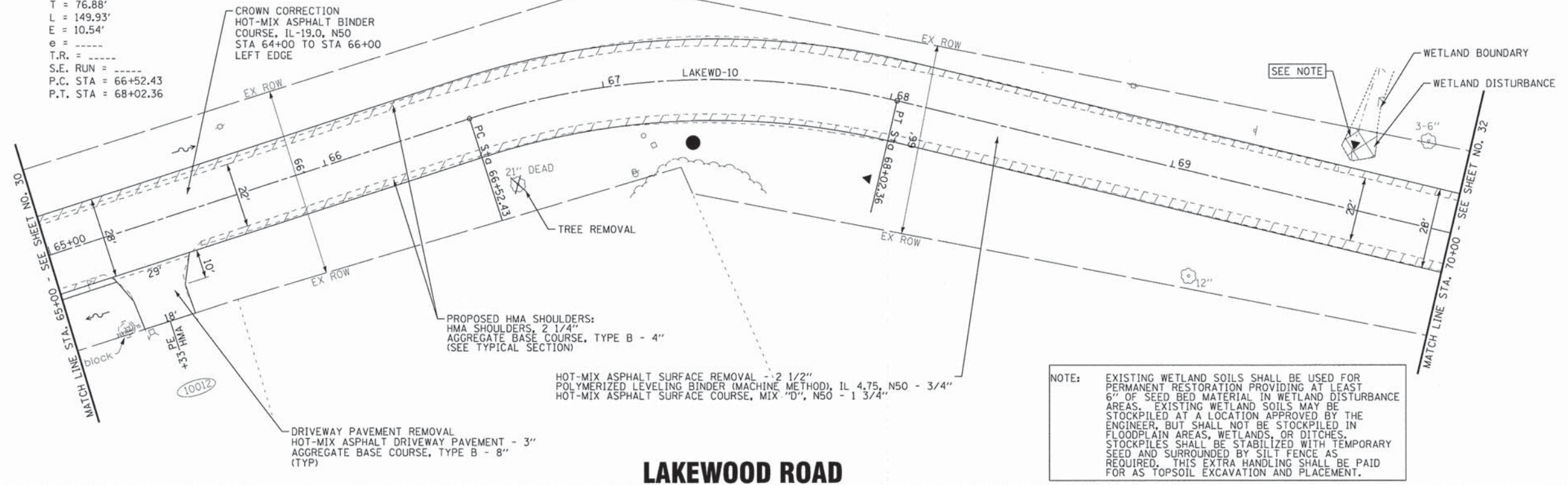
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899.51	899.25	898.98	898.72	898.45	898.26	898.06	897.86	897.67	897.67	897.68	897.68	897.52	
59+00	59+50	60+00	60+50	61+00	61+50	62+00	62+50	63+00	63+50	64+00	64+50	65+00	

DESIGNED - JDM	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-PP10.dgn

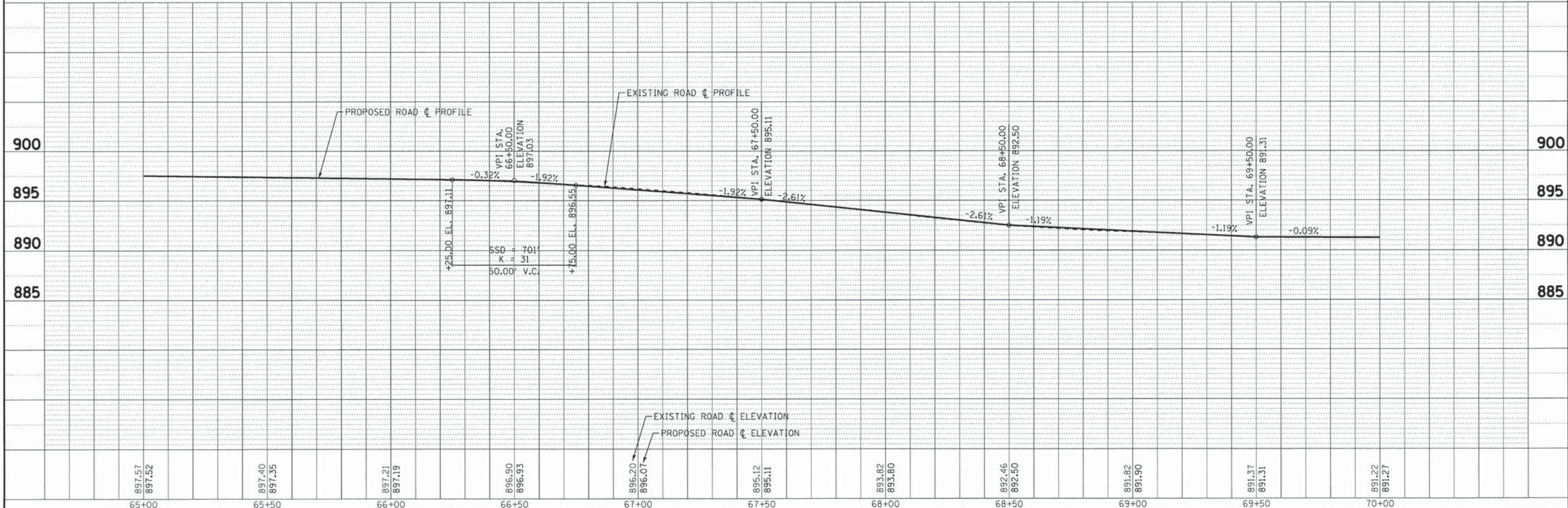
PLAN AND PROFILE LAKWOOD ROAD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		3870 0188	12-00012-00-BT	McHENRY	86	30
SCALE: H: 1"=20' V: 1"=5'		STA. 59+00 TO STA. 65+00		CONTRACT NO. 61A78		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40032171				

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 PROJECT: 130154-SH-PH2-PP10.dgn
 DATE: 8/20/14
 DRAWN BY: UKB
 CHECKED BY: DSH
 DATE: 8-20-14

CURVE TABLE
 PROP. CURVE LAKEWD-10
 PI STA. = 67+29.31
 $\Delta = 31^\circ 14' 19''$ (RT)
 $D = 20^\circ 50' 05''$
 $R = 275.00'$
 $T = 76.88'$
 $L = 149.93'$
 $E = 10.54'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. \text{ RUN} = \text{---}$
 $P.C. \text{ STA} = 66+52.43$
 $P.T. \text{ STA} = 68+02.36$



LAKWOOD ROAD



897.57	897.52	897.40	897.35	897.21	897.19	896.90	896.93	896.20	896.07	895.12	895.11	893.82	893.80	892.46	892.50	891.82	891.90	891.37	891.31	891.22	891.27
65+00		65+50		66+00		66+50		67+00		67+50		68+00		68+50		69+00		69+50		70+00	

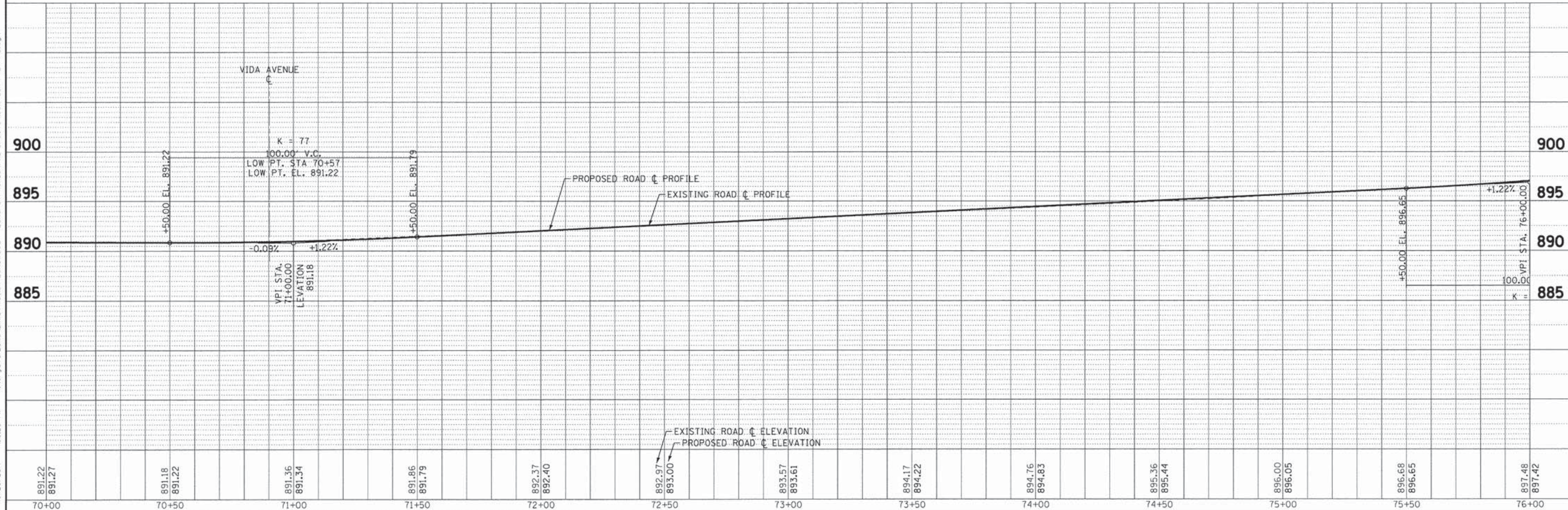
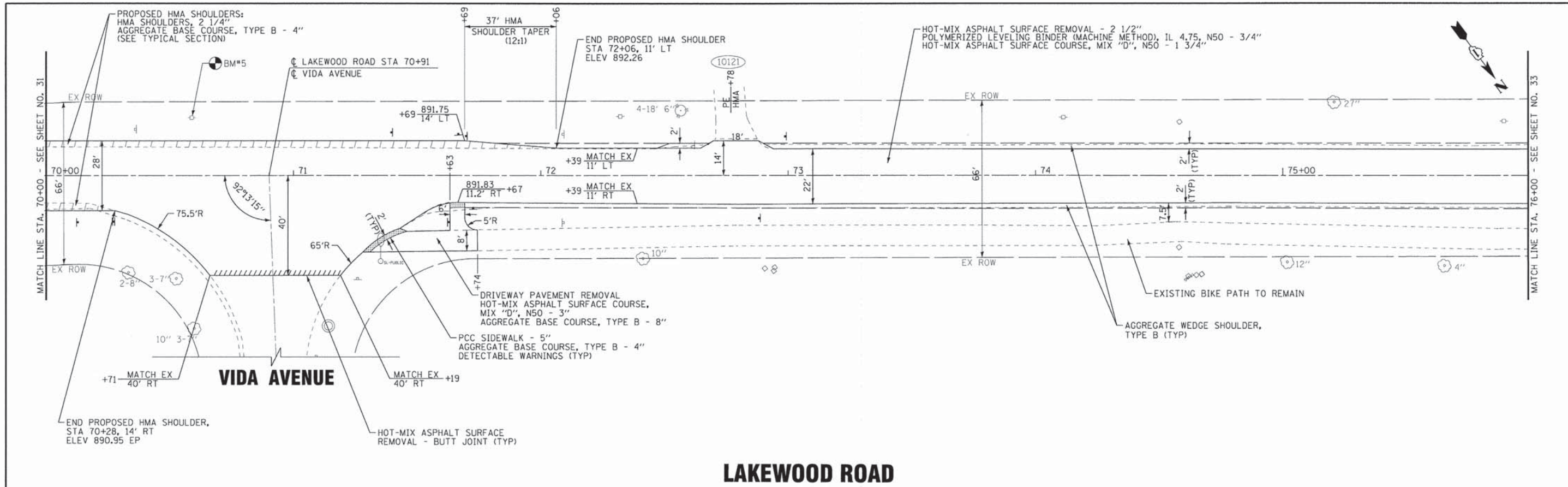
BAXTER & WOODMAN
 Consulting Engineers

DESIGNED - JDM	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154.SH-PH2-PP1.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LAKWOOD ROAD		F.A. RT. 120	SECTION 12-00012-00-BT	COUNTY MCHENRY	TOTAL SHEETS 86	SHEET NO. 31
SCALE: H: 1"=20' V: 1"=5'		STA. 65+00 TO STA. 70+00		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40032127						

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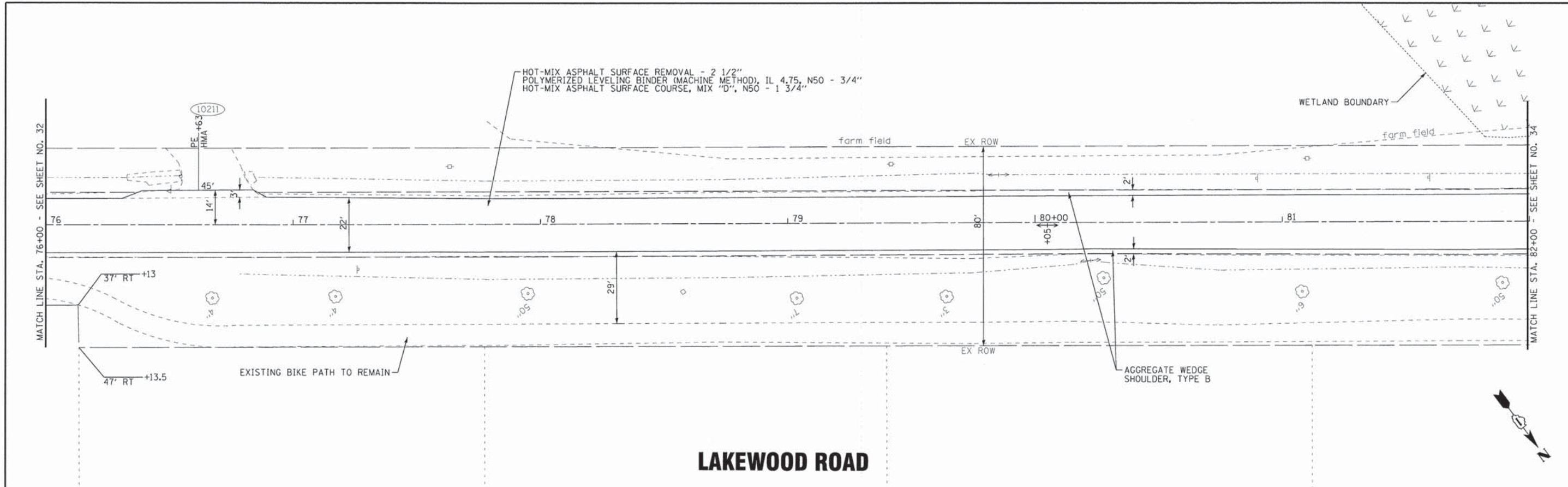
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70+00	70+50	71+00	71+50	72+00	72+50	73+00	73+50	74+00	74+50	75+00	75+50	76+00													

BAXTER & WOODMAN
Consulting Engineers

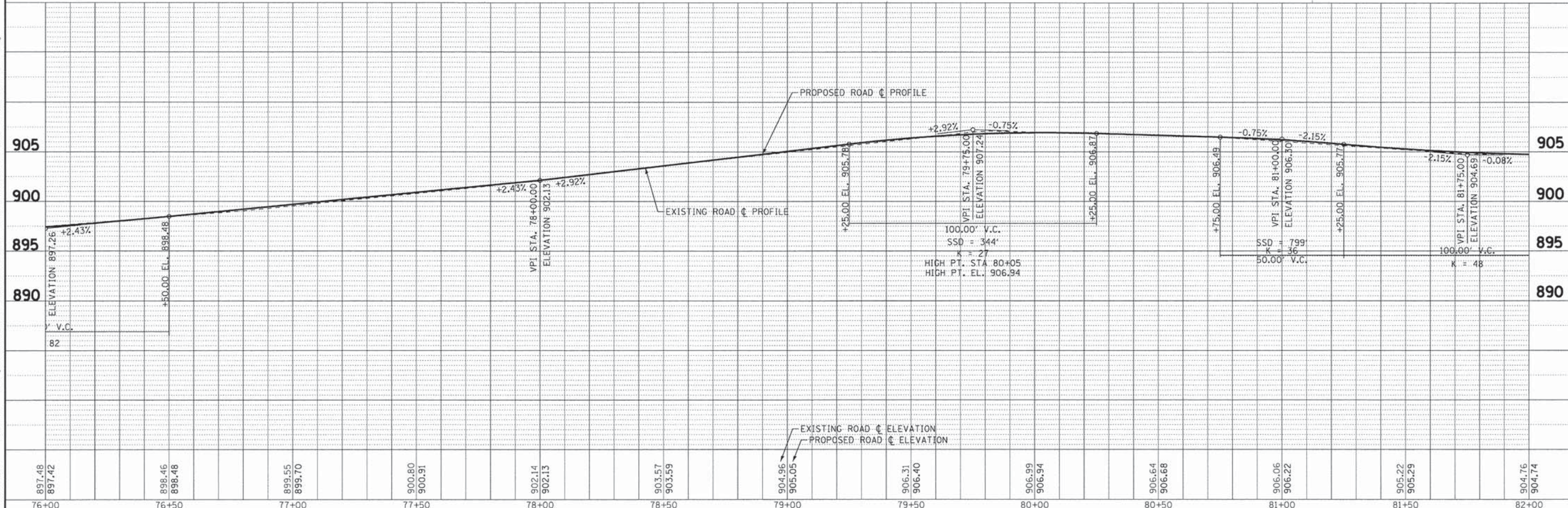
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DESIGNED - JDM		REVISED -		PLAN AND PROFILE LAKEWOOD ROAD		F.A. RITE		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
DRAWN - LKB		REVISED -		SCALE: H: 1"=20' V: 1"=5'		8870		12-00012-00-BT		McHENRY		86		32	
CHECKED - DSH		REVISED -		STA. 70+00 TO STA. 76+00		0118		FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT M-4003(217)		CONTRACT NO. 61A78	
DATE - 8-20-14		FILE - 130154_SH-PH2-PP12.dgn													

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LAKWOOD ROAD



897.48	897.42	898.46	898.48	899.55	899.70	900.80	900.91	902.14	902.13	903.57	903.59	904.96	905.05	906.31	906.40	906.99	906.94	906.64	906.68	906.06	906.22	905.22	905.29	904.76	904.74
76+00	76+50	77+00	77+50	78+00	78+50	79+00	79+50	80+00	80+50	81+00	81+50	82+00													

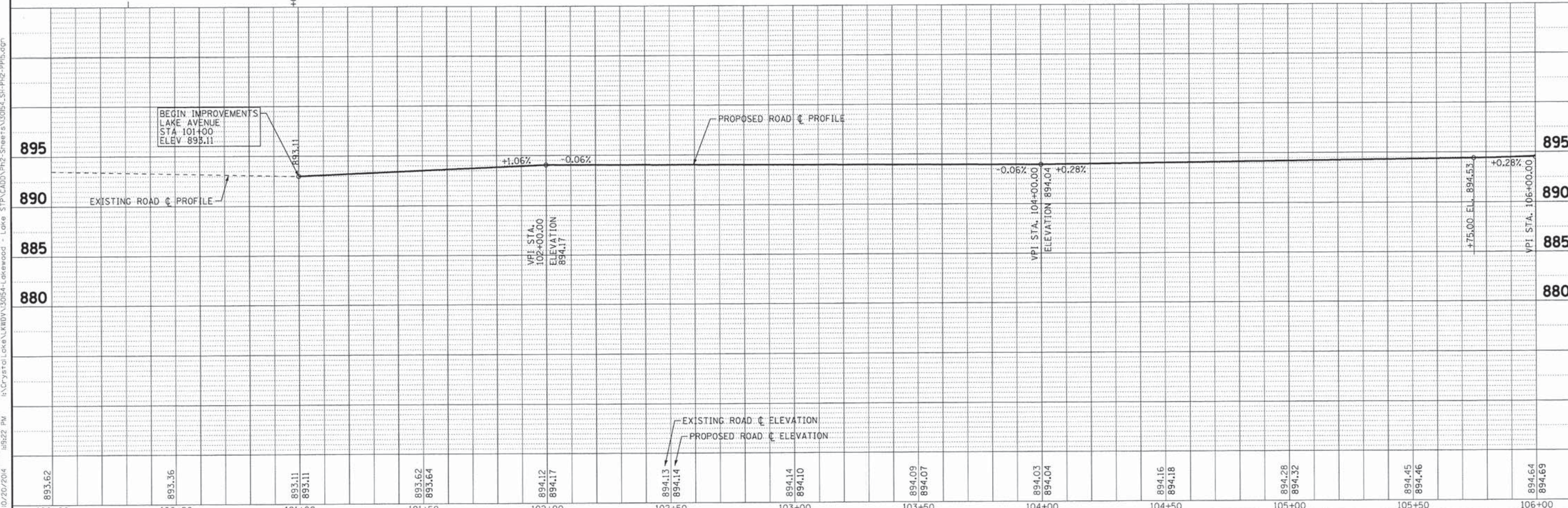
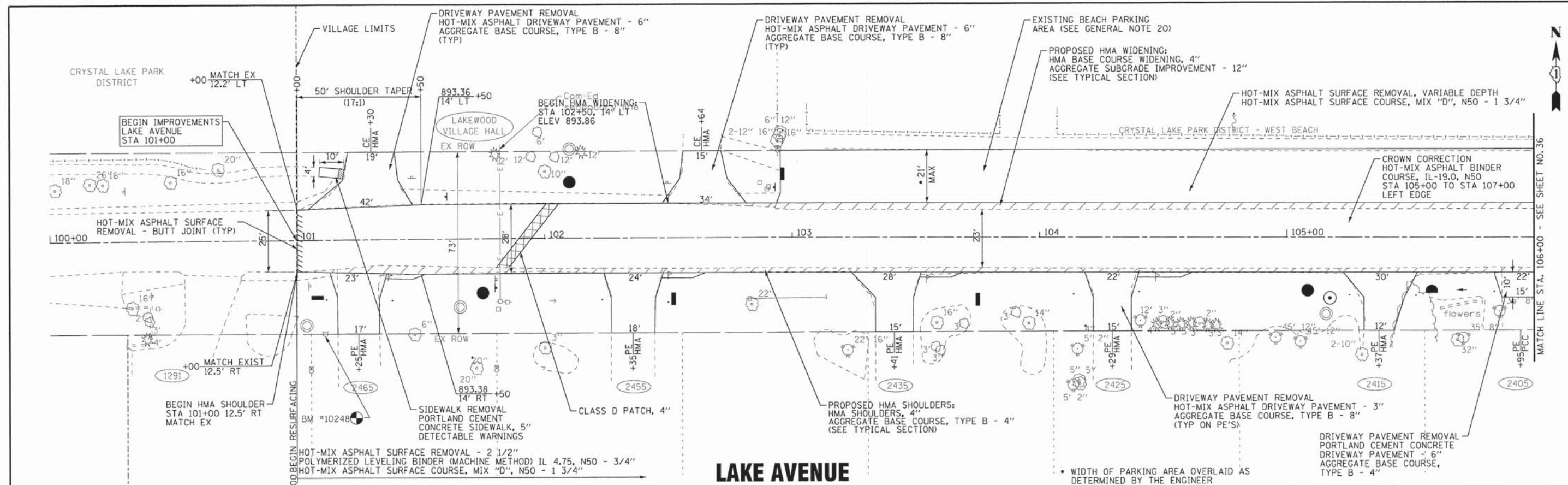
BAXTER & WOODMAN
Consulting Engineers

DESIGNED - JDM	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-PP13.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LAKWOOD ROAD		F.A. RT# 810	SECTION 12-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 33
SCALE: H: 1"=20' V: 1"=5'		STA. 76+00 TO STA. 82+00		CONTRACT NO. 61A78		
		FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT M-40031217		

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DESIGNED - JDM	REVISED - PER IDOT 10-2-14
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-PP15.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
LAKE AVENUE**

SCALE: H: 1"=20' V: 1"=5'

STA. 100+00 TO STA. 106+00

F.A. RTE. 3870 018	SECTION 12-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 35
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003217			CONTRACT NO. 61A78	

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 DATE: 8/20/14
 DRAWN BY: UKB
 CHECKED BY: DSH
 DESIGNED BY: JDM
 FILE: 130154-SH-PH2-PP15.dgn

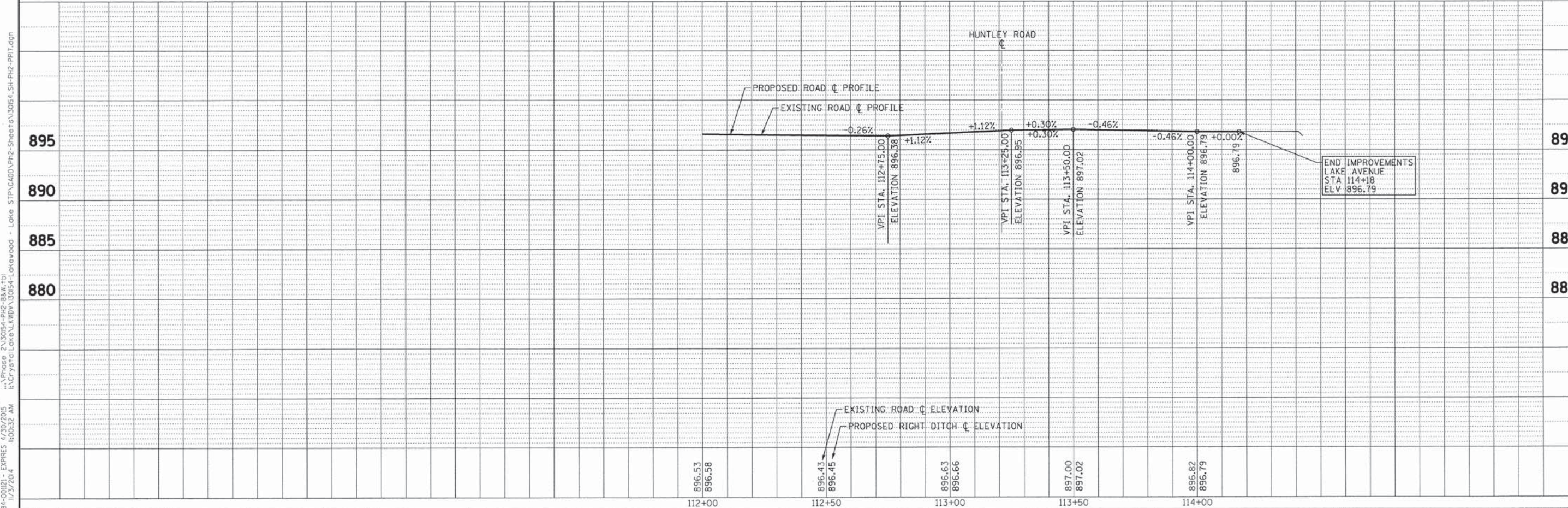
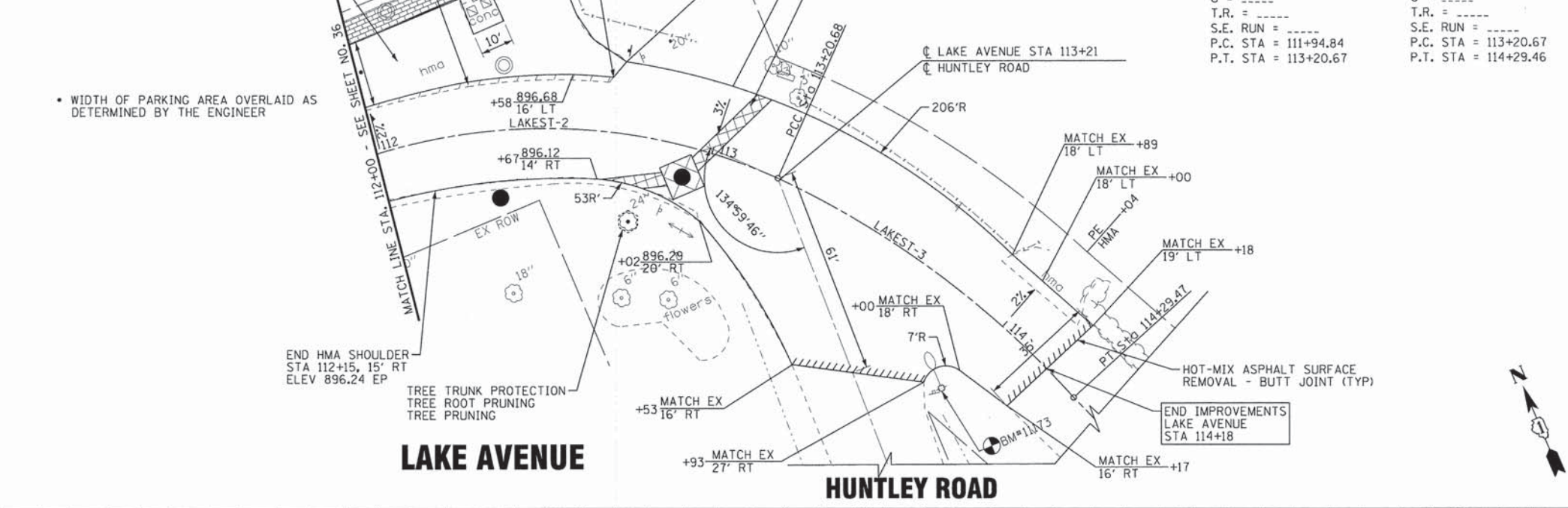
PROPOSED HMA WIDENING:
HMA BASE COURSE WIDENING, 4"
AGGREGATE SUBGRADE IMPROVEMENT - 12"
(SEE TYPICAL SECTION)

DRIVEWAY PAVEMENT REMOVAL
HOT-MIX ASPHALT DRIVEWAY PAVEMENT - 3"
AGGREGATE BASE COURSE, TYPE B - 8"
(TYP ON PE'S)

• WIDTH OF PARKING AREA OVERLAID AS DETERMINED BY THE ENGINEER

CURVE TABLE

PROP. CURVE LAKEST-2	PROP. CURVE LAKEST-3
PI STA. = 112+60.85	PI STA. = 113+75.82
$\Delta = 42^\circ 46' 59''$ (RT)	$\Delta = 23^\circ 05' 08''$ (RT)
D = 34° 00' 02"	D = 21° 13' 14"
R = 168.51'	R = 270.00'
T = 66.01'	T = 55.14'
L = 125.83'	L = 108.79'
E = 12.47'	E = 5.57'
e = -----	e = -----
T.R. = -----	T.R. = -----
S.E. RUN = -----	S.E. RUN = -----
P.C. STA = 111+94.84	P.C. STA = 113+20.67
P.T. STA = 113+20.67	P.T. STA = 114+29.46



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 ...\\Crystal\Lake\KWDV\130154-Lakewood - Lake STP\CADD\PH2-Sheets\130154_SH-PH2-PP17.dgn

DESIGNED - JDM	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-PP17.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
LAKE AVENUE**

SCALE: H: 1"=20' V: 1"=5'

STA. 112+00 TO STA. 114+29.47

F.A. RT. 3870 018	SECTION 12-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 37
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003217			CONTRACT NO. 61A78	

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. SEDIMENTATION AND EROSION CONTROL STANDARDS

THE FOLLOWING STANDARDS MUST BE SATISFIED:

- A. ALL AREAS LOCATED DOWNSTREAM FROM DISTURBED AREAS OF A DEVELOPMENT SITE SHALL BE PROTECTED FROM POTENTIAL INCREASE AND SEDIMENTATION RESULTING FROM UPSTREAM ACTIVITIES.
- B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED AND FUNCTIONAL PRIOR TO OR CONCURRENTLY WITH THE START OF DISTURBANCE.
- C. PERMANENT STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED; BUT IN NO CASE SHALL THESE MEASURES BE INSTALLED MORE THAN 7 DAYS AFTER THE CONSTRUCTION IN THE AREA TEMPORARILY OR PERMANENTLY CEASES.

2. SEDIMENTATION AND EROSION CONTROL METHODS

THE FOLLOWING SEDIMENTATION AND EROSION CONTROL METHODS MUST BE INSTALLED AND MAINTAINED:

- A. ALL STORM SEWER STRUCTURES THAT RECEIVE RUNOFF DURING CONSTRUCTION SHALL INCLUDE INLET PROTECTION TO PREVENT DEBRIS AND EXCESSIVE SEDIMENT FROM ENTERING THE STORM SEWER PIPING SYSTEM. THESE PROTECTIVE MEASURES SHALL BE PROPERLY INSTALLED, MAINTAINED, AND REMOVED IN THEIR ENTIRETY AFTER THE AREA TRIBUTARY TO THE STORM STRUCTURE IS STABILIZED.
- B. DISCHARGES FROM DEWATERING OPERATIONS SHALL ENTER OR BE ROUTED TO A SEDIMENT AND EROSION CONTROL SYSTEM OR DEVICE.
- C. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PROPERLY STABILIZED OR DISPOSED.
- D. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE CONSTRUCTION SITE. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PERIODICALLY MAINTAINED TO REMOVE MUD AND DEBRIS. THE STABILIZED CONSTRUCTION ENTRANCE SHALL CONSIST OF AN APPROPRIATE GEOTEXTILE FABRIC COVERED WITH AT LEAST SIX INCHES OF CLEAN STONE THAT IS AT LEAST TWO (2) INCHES IN DIAMETER.
- E. TEMPORARY EARTHEN EMBANKMENTS, GRADE TRANSITIONS AND BERMS SHALL BE CONSTRUCTED WITH SIDE SLOPES NO STEEPER THAN 3H:1V. SIDE SLOPES BELOW NORMAL WATER LEVEL SHALL BE NO STEEPER THAN 2H:1V. MORE GRADUAL SLOPES MAY BE REQUIRED FOR SOILS THAT EASILY ERODE.

3. MAINTENANCE

ALL TEMPORARY MEASURES AND PERMANENT EROSION AND SEDIMENT CONTROL MUST BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION AS IDENTIFIED BY REQUIRED INSPECTIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- A. REPAIR, REPLACE OR MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES AFTER A SINGULAR OR CUMULATIVE RAINFALL EVENT(S) OF 0.5 INCH OR MORE OVER A TWENTY-FOUR-HOUR PERIOD.
- B. MAKE ADJUSTMENTS TO THE SEDIMENTATION AND EROSION CONTROL PLAN AND METHODS, AS NEEDED, TO ACCOMPLISH THE INTENDED PURPOSE.
- C. ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY, AND CLEANED WHEN NECESSARY OR AS DETERMINED BY THE VILLAGE OF LAKEWOOD OR THE ENGINEER.

4. INSPECTIONS

- A. THESE PLANS FOR UPGRADING, STRIPPING, EXCAVATING, AND FILLING WORK, BEAR THE STAMP OF APPROVAL OF THE ENFORCEMENT OFFICER. THESE PLANS SHALL BE MAINTAINED AT THE SITE DURING THE PROGRESS OF THE WORK. THE DISTRICT AND/OR ENGINEER SHALL MAKE INSPECTIONS AND MAINTAIN ON-SITE RECORDS OF SUCH INSPECTIONS AT THE INTERVALS SPECIFIED BELOW:
 - I. UPON COMPLETION OF INSTALLATION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING;
 - II. AFTER ROUGH GRADING;
 - III. AFTER FINAL GRADING; AND
 - IV. WEEKLY AND AFTER EACH RAINFALL EVENT OF 0.5 INCH OR MORE OVER A TWENTY-FOUR-HOUR PERIOD.
- B. ANY NECESSARY REPAIRS TO SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MADE AND REPORTED IN THE ON-SITE INSPECTION RECORDS. COPIES OF THE INSPECTION RECORDS SHALL BE SUBMITTED TO THE ENFORCEMENT OFFICER IN A MONTHLY INSPECTION REPORT.

5. NOTIFICATIONS

- TO FACILITATE ENFORCEMENT OFFICER COMPLIANCE INSPECTIONS THE DISTRICT AND/OR ENGINEER SHALL NOTIFY THE ENFORCEMENT OFFICER WITHIN TWO (2) WORKING DAYS OF THE COMPLETION OF THE CONSTRUCTION STAGES SPECIFIED BELOW:
- A. UPON COMPLETION OF INSTALLATION OF SEDIMENT AND RUNOFF CONTROL (CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING;
 - B. AFTER ROUGH GRADING;
 - C. AFTER FINAL STABILIZATION AND LANDSCAPING, PRIOR TO REMOVAL OF SEDIMENT CONTROLS.
- IF STRIPPING, CLEARING, GRADING AND/OR LANDSCAPING ARE TO BE DONE IN PHASES OR AREAS, THE DISTRICT AND/OR ENGINEER SHALL GIVE NOTICE AT THE COMPLETION OF EACH OF THE ABOVE WORK STAGES IN EACH PHASE OR AREA.

6. SPECIAL PRECAUTIONS

- A. IF AT ANY STAGE OF THE GRADING ON THE SITE, THE ENFORCEMENT OFFICER DETERMINES BY INSPECTION THAT THE NATURE OF THE SITE IS SUCH THAT FURTHER WORK AUTHORIZED BY AN EXISTING PERMIT IS LIKELY TO IMPERIL ANY PROPERTY, PUBLIC WAY, STREAM, LAKE, WETLAND, OR DRAINAGE STRUCTURE, THE ENFORCEMENT OFFICER MAY REQUIRE, AS A CONDITION OF ALLOWING THE WORK TO BE DONE, THAT SUCH REASONABLE SPECIAL PRECAUTIONS BE TAKEN AS ARE CONSIDERED ADVISABLE TO AVOID THE LIKELIHOOD OF SUCH PERIL. "SPECIAL PRECAUTIONS" MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, A MORE LEVEL EXPOSED SLOPE, CONSTRUCTION OF ADDITIONAL DRAINAGE FACILITIES, BERMS, TERRACING, COMPACTION, OR CRIBBING, INSTALLATION OF PLANT MATERIALS FOR EROSION CONTROL, AND RECOMMENDATIONS OF A REGISTERED SOILS ENGINEER AND/OR ENGINEERING GEOLOGIST WHICH MAY OUTLINE REQUIREMENTS FOR FURTHER WORK.
- B. WHERE IT APPEARS THAT STORM DAMAGE MAY OCCUR DUE TO INCOMPLETE GRADING AT SITE, WORK MAY BE STOPPED AND THE CONTRACTOR REQUIRED TO INSTALL TEMPORARY STRUCTURES OR TAKE SUCH OTHER MEASURES AS MAY BE REQUIRED TO PROTECT ADJOINING PROPERTY OR THE PUBLIC SAFETY. WHERE UNUSUAL SITE CONDITIONS PREVAIL, THE ENFORCEMENT OFFICER MAY SPECIFY THE START AND END DATES FOR GRADING OPERATIONS OR MAY REQUIRE THAT THE OPERATIONS BE CONDUCTED IN SPECIFIC STAGES SO AS TO ENSURE COMPLETION OF PROTECTIVE MEASURES OR DEVICES PRIOR TO THE ADVENT OF SEASONAL RAINS.

7. McHENRY COUNTY SOIL EROSION AND SEDIMENT CONTROL

- A. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
- B. SOIL AND MATERIAL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF McHENRY COUNTY.
- C. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DISPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF McHENRY COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.

SCHEDULE OF TEMPORARY EROSION CONTROL QUANTITIES

TEMPORARY DITCH CHECKS	FOOT	700
PERIMETER EROSION BARRIER	FOOT	3,664
PERIMETER EROSION BARRIER, SPECIAL	FOOT	215
INLET FILTERS	EACH	31
TURF REINFORCEMENT MAT	SQ YD	1,637
TEMPORARY EROSION CONTROL BLANKET	SQ YD	19,750
TEMPORARY EROSION CONTROL SEEDING	POUND	1,080

6/20/15 BY BAXTER WOODMAN, INC. 10/20/2015
 STATE OF ILLINOIS, McHENRY COUNTY
 LICENSE NO. 384-00121 - EXPRES. 7/20/2015
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BAXTER WOODMAN Consulting Engineers	DESIGNED - JDM	REVISED - PER IDOT 10-2-14
	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
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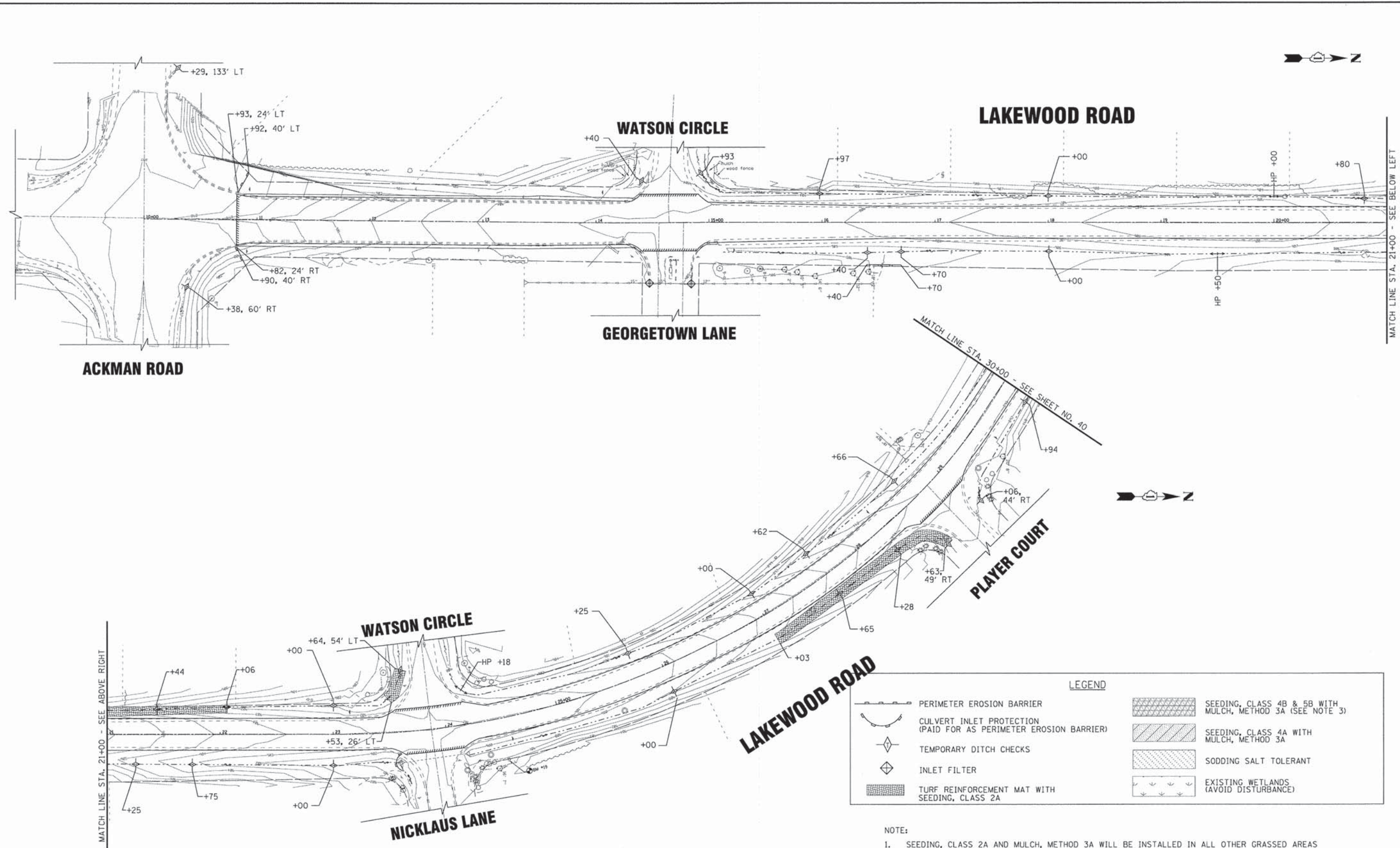
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL NOTES

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 DIST	13-00012-00-BT	McHENRY	86	38
C-91-393-13	CONTRACT NO. 61A78			
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(217)				



LEGEND

	PERIMETER EROSION BARRIER		SEEDING, CLASS 4B & 5B WITH MULCH, METHOD 3A (SEE NOTE 3)
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)		SEEDING, CLASS 4A WITH MULCH, METHOD 3A
	TEMPORARY DITCH CHECKS		SODDING SALT TOLERANT
	INLET FILTER		EXISTING WETLANDS (AVOID DISTURBANCE)
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 2A		

- NOTE:**
- SEEDING, CLASS 2A AND MULCH, METHOD 3A WILL BE INSTALLED IN ALL OTHER GRASSED AREAS OF DISTURBANCE.
 - TEMPORARY EROSION CONTROL SEEDING WITH TEMPORARY EROSION CONTROL BLANKET SHALL BE USED UNTIL PERMANENT SEEDING AND SODDING CAN BE INSTALLED.
 - APPLICATION RATE OF MULCH, METHOD 3A SHALL BE INCREASED TO 3500 LB/ACRE ON ALL SLOPES EXCEEDING 2H:1V OR AS RECOMMENDED BY THE MANUFACTURER.

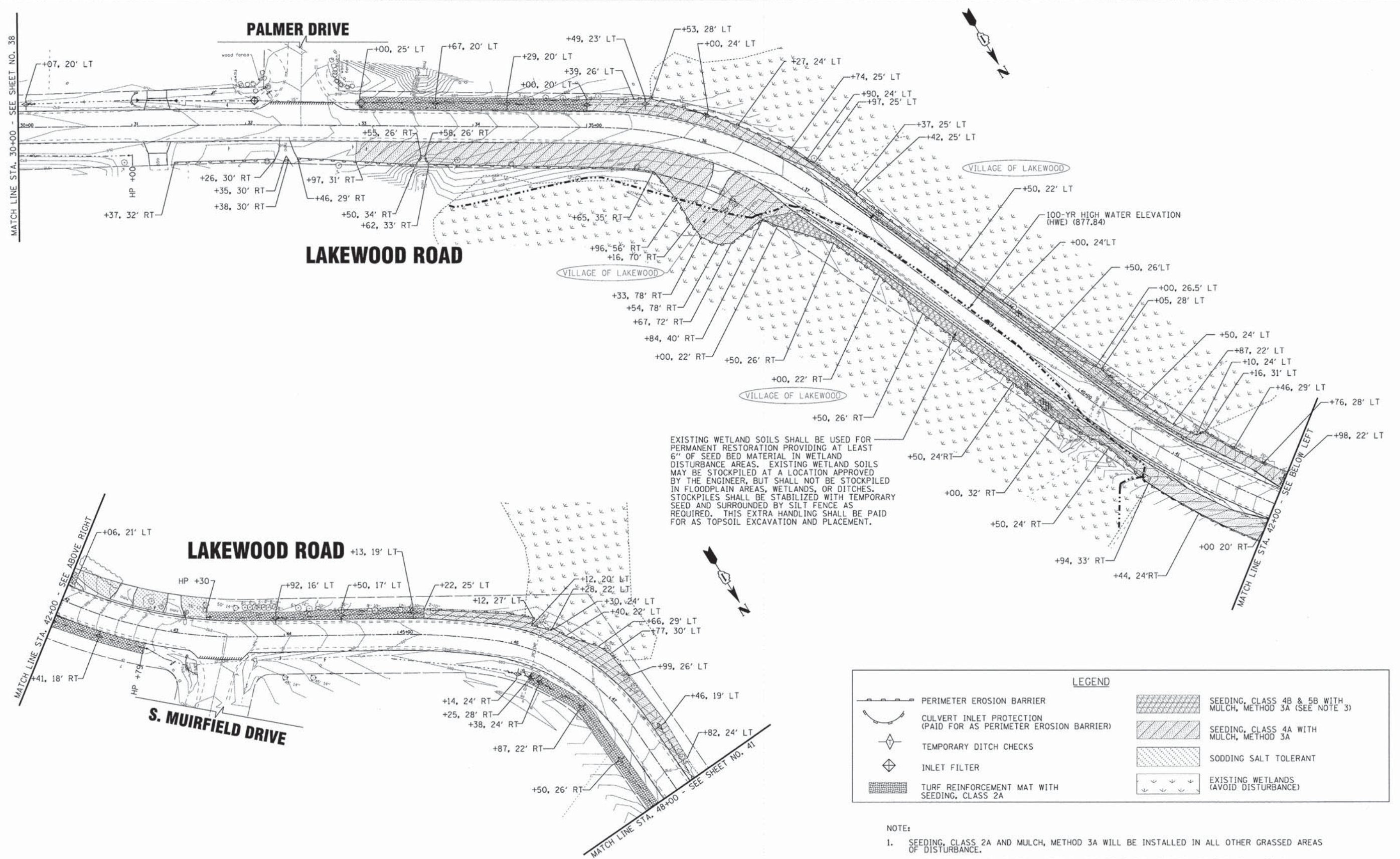
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 DATE: 8/20/14
 DRAWN: UKB
 CHECKED: DSH
 DATE: 8-20-14

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	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154_SH-PH2-ER1.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN LAKEWOOD ROAD		
SCALE: 1"=40'	STA. 10+00	TO STA. 30+00

F.A.U. RTE. 3870 0118	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 39
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40031217				



EXISTING WETLAND SOILS SHALL BE USED FOR PERMANENT RESTORATION PROVIDING AT LEAST 6" OF SEED BED MATERIAL IN WETLAND DISTURBANCE AREAS. EXISTING WETLAND SOILS MAY BE STOCKPILED AT A LOCATION APPROVED BY THE ENGINEER, BUT SHALL NOT BE STOCKPILED IN FLOODPLAIN AREAS, WETLANDS, OR DITCHES. STOCKPILES SHALL BE STABILIZED WITH TEMPORARY SEED AND SURROUNDED BY SILT FENCE AS REQUIRED. THIS EXTRA HANDLING SHALL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.

LEGEND	
	PERIMETER EROSION BARRIER
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)
	TEMPORARY DITCH CHECKS
	INLET FILTER
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 2A
	SEEDING, CLASS 4B & 5B WITH MULCH, METHOD 3A (SEE NOTE 3)
	SEEDING, CLASS 4A WITH MULCH, METHOD 3A
	SODDING SALT TOLERANT
	EXISTING WETLANDS (AVOID DISTURBANCE)

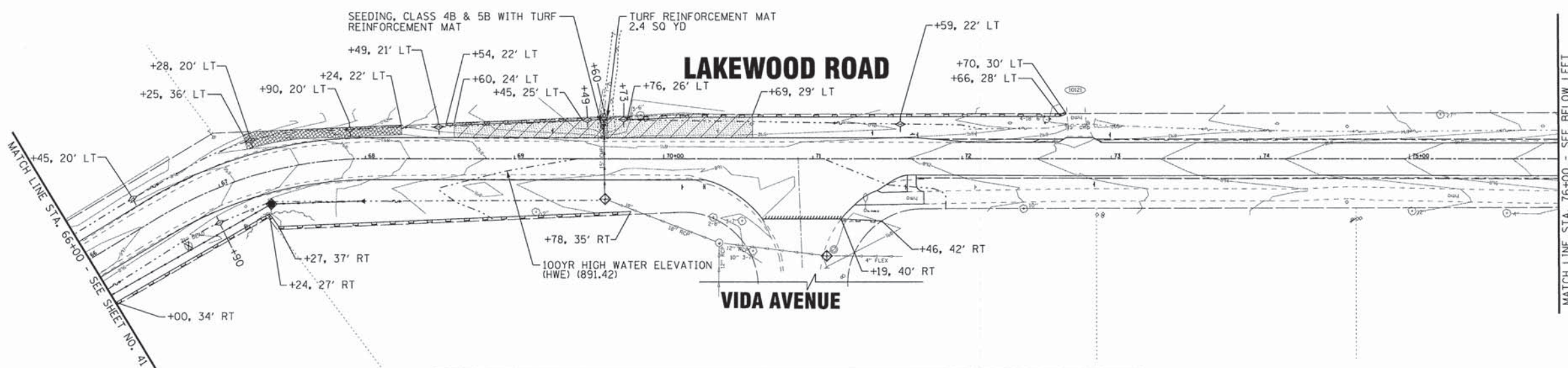
- NOTE:
- SEEDING, CLASS 2A AND MULCH, METHOD 3A WILL BE INSTALLED IN ALL OTHER GRASSED AREAS OF DISTURBANCE.
 - TEMPORARY EROSION CONTROL SEEDING WITH TEMPORARY EROSION CONTROL BLANKET SHALL BE USED UNTIL PERMANENT SEEDING AND SODDING CAN BE INSTALLED.
 - APPLICATION RATE OF MULCH, METHOD 3A SHALL BE INCREASED TO 3500 LB/ACRE ON ALL SLOPES EXCEEDING 2H:1V OR AS RECOMMENDED BY THE MANUFACTURER.

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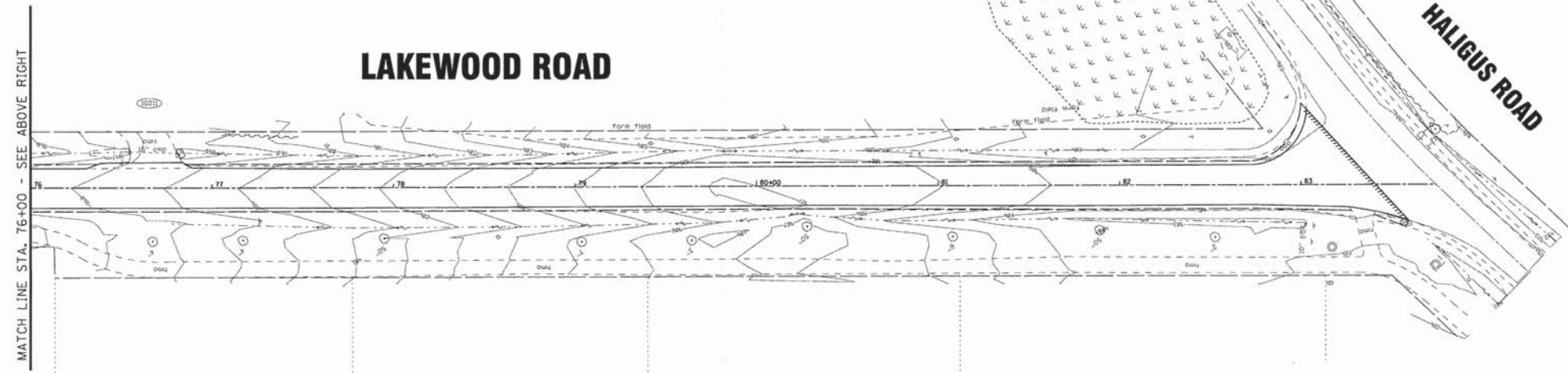
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN LAKEWOOD ROAD		F.A.U. RT. 13-00012-00-BT	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1"=40'		STA. 30+00	TO STA. 48+00	McHENRY	86	40
		C-91-393-13		CONTRACT NO. 61A78		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



LEGEND	
	PERIMETER EROSION BARRIER
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)
	TEMPORARY DITCH CHECKS
	INLET FILTER
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 2A
	SEEDING, CLASS 4B & 5B WITH MULCH, METHOD 3A (SEE NOTE 3)
	SEEDING, CLASS 4A WITH MULCH, METHOD 3A
	SODDING SALT TOLERANT
	EXISTING WETLANDS (AVOID DISTURBANCE)

- NOTE:
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 - TEMPORARY EROSION CONTROL SEEDING WITH TEMPORARY EROSION CONTROL BLANKET SHALL BE USED UNTIL PERMANENT SEEDING AND SODDING CAN BE INSTALLED.
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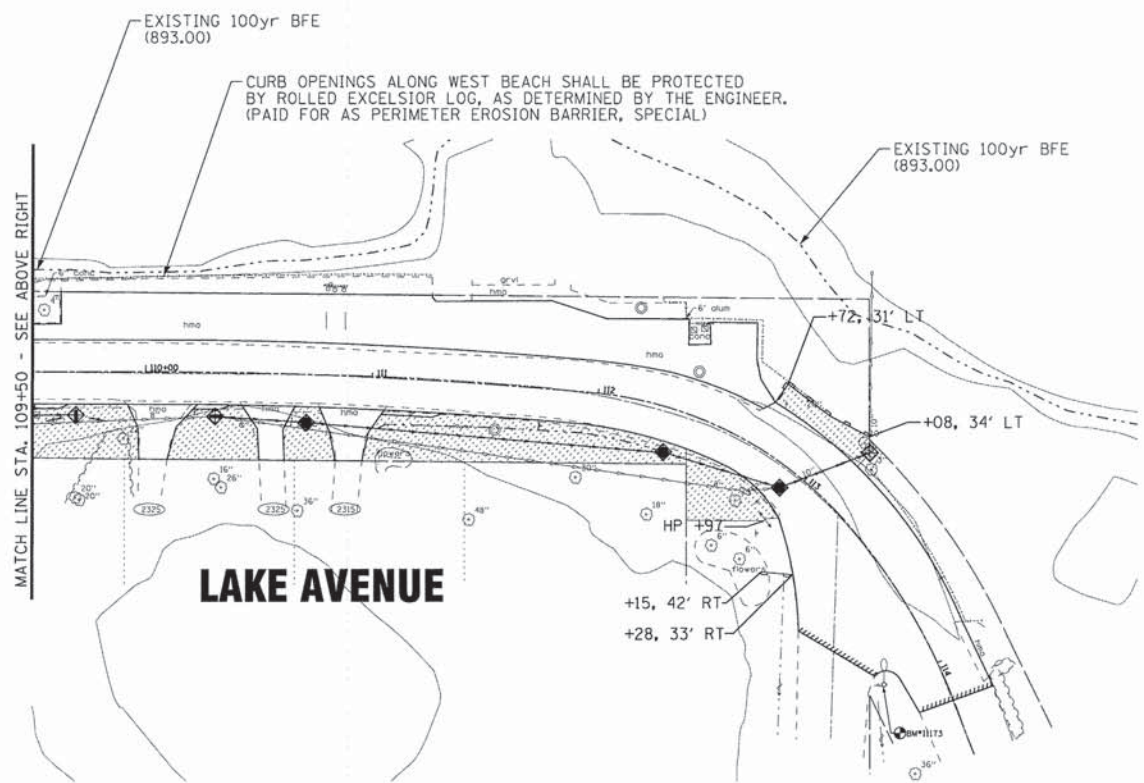
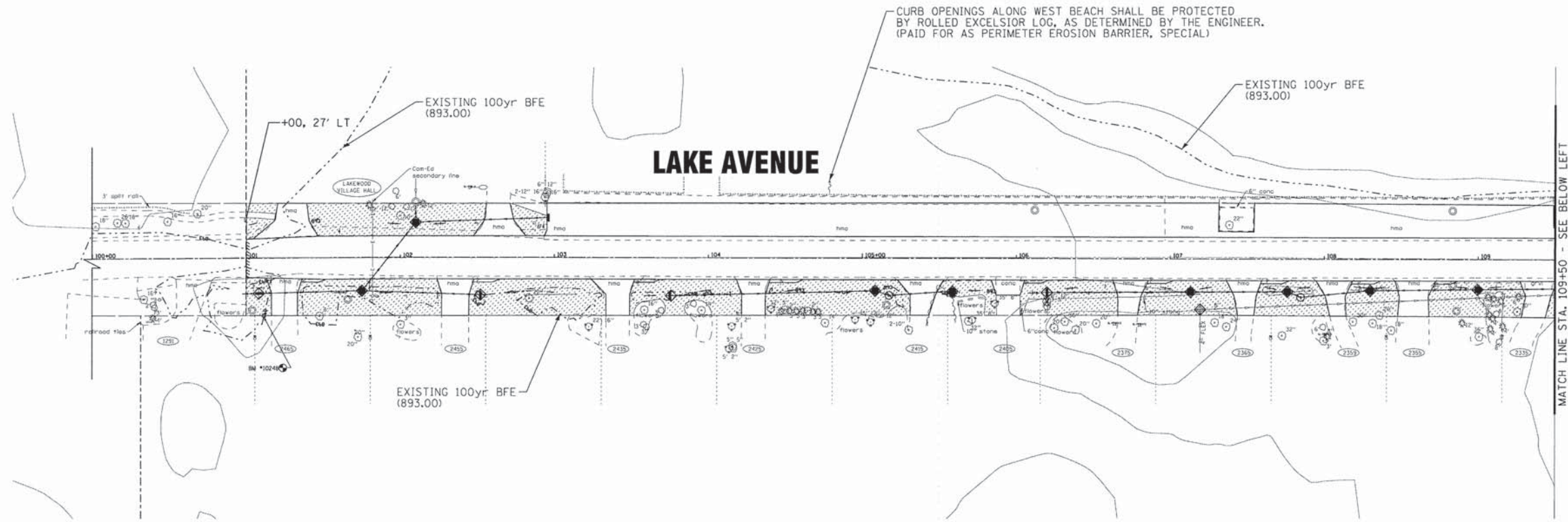
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN LAKEWOOD ROAD	
SCALE: 1"=40'	STA. 66+00 TO STA. 83+74

F.A.U. RTE. 130154	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 42
C-91-993-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003217				



LEGEND	
	PERIMETER EROSION BARRIER
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)
	TEMPORARY DITCH CHECKS
	INLET FILTER
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 2A
	SEEDING, CLASS 4B & 5B WITH MULCH, METHOD 3A (SEE NOTE 3)
	SEEDING, CLASS 4A WITH MULCH, METHOD 3A
	SODDING SALT TOLERANT
	EXISTING WETLANDS (AVOID DISTURBANCE)

- NOTE:
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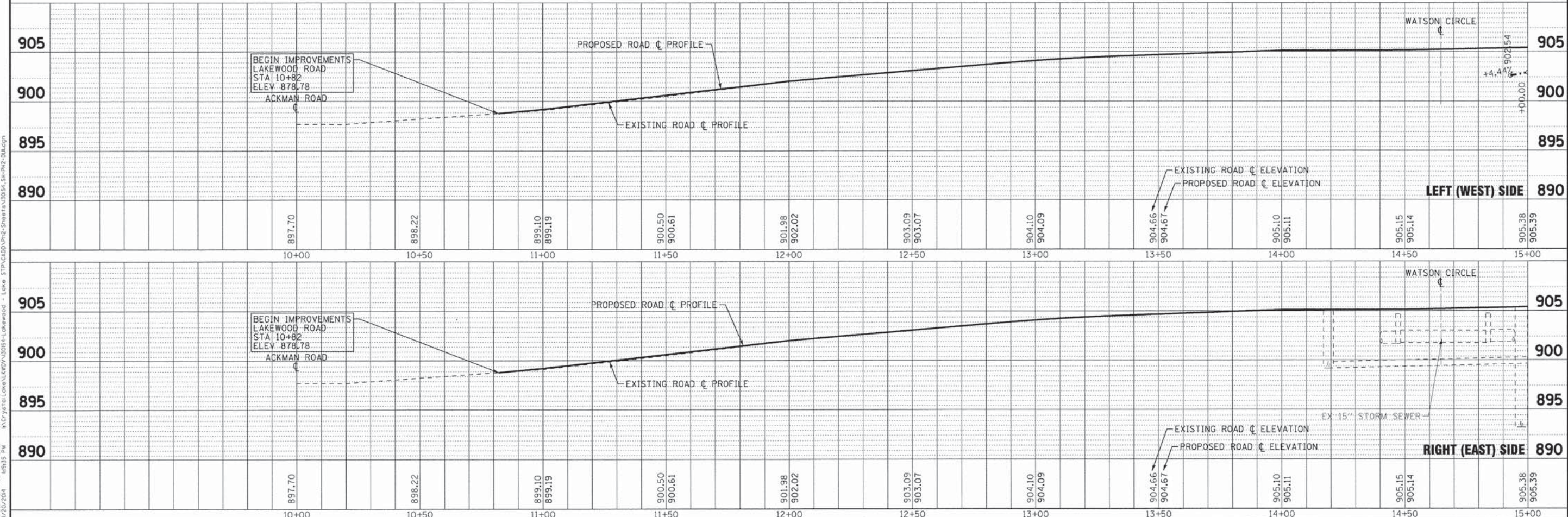
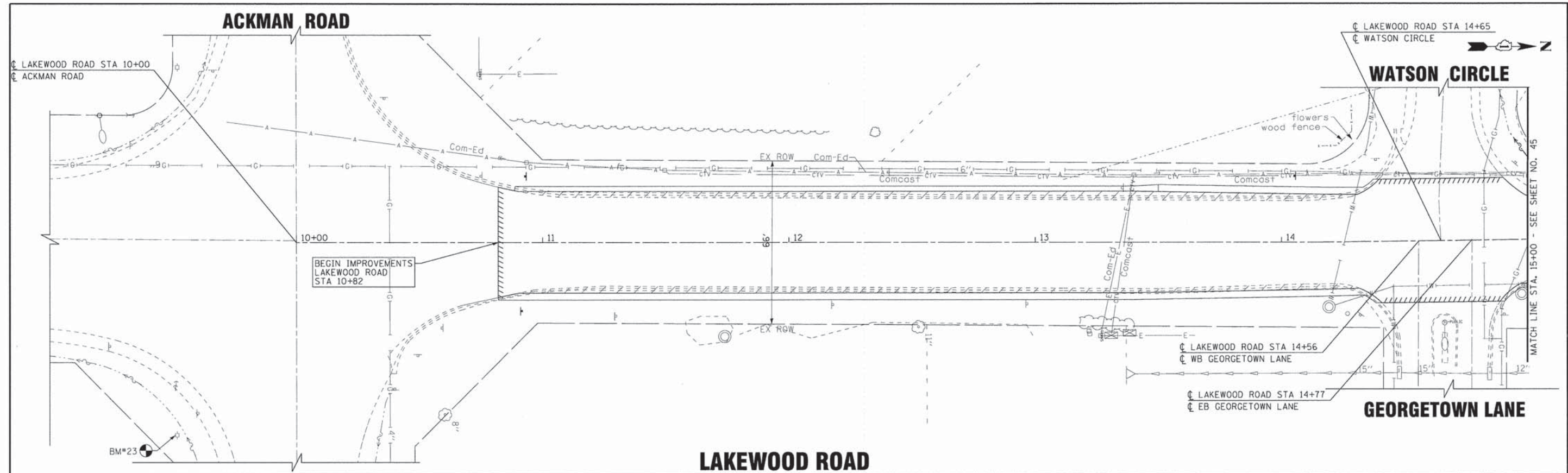
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN	
LAKE AVENUE	
SCALE: 1"=40'	STA.100+00 TO STA.114+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 0118	13-00012-00-BT	McHENRY	86	43
C-91-393-13	CONTRACT NO. 61A78			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



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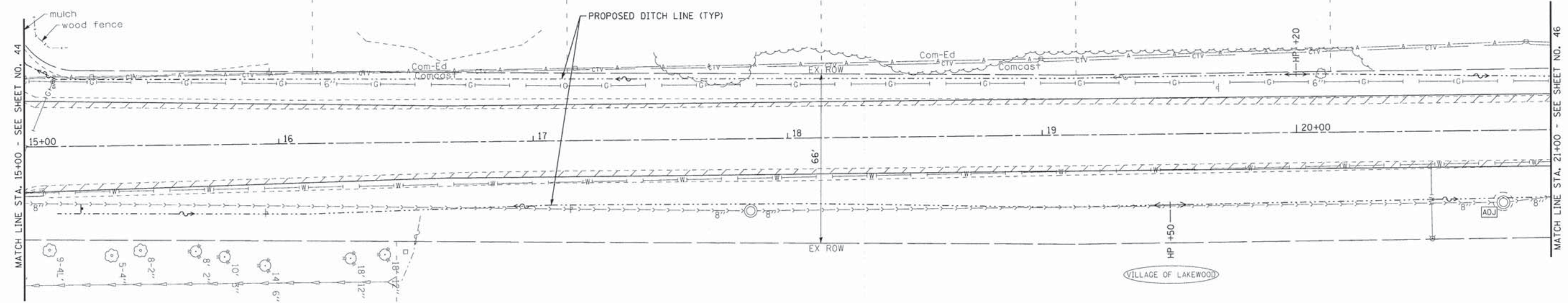
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
LAKEWOOD ROAD

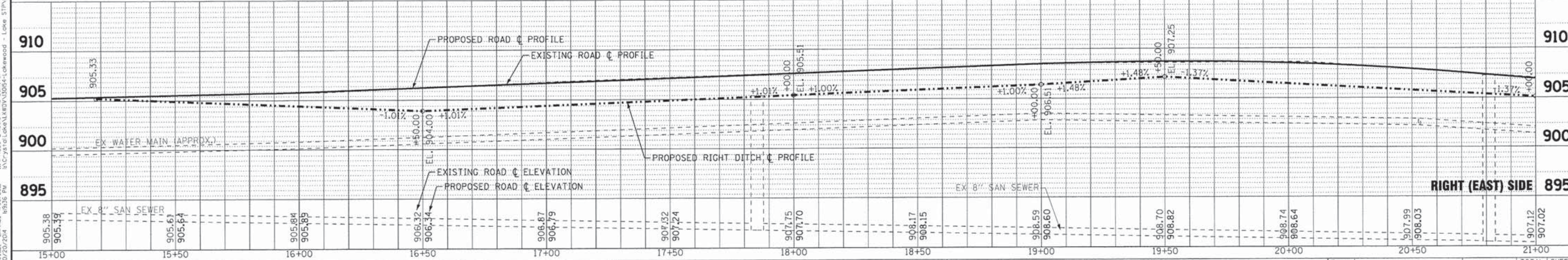
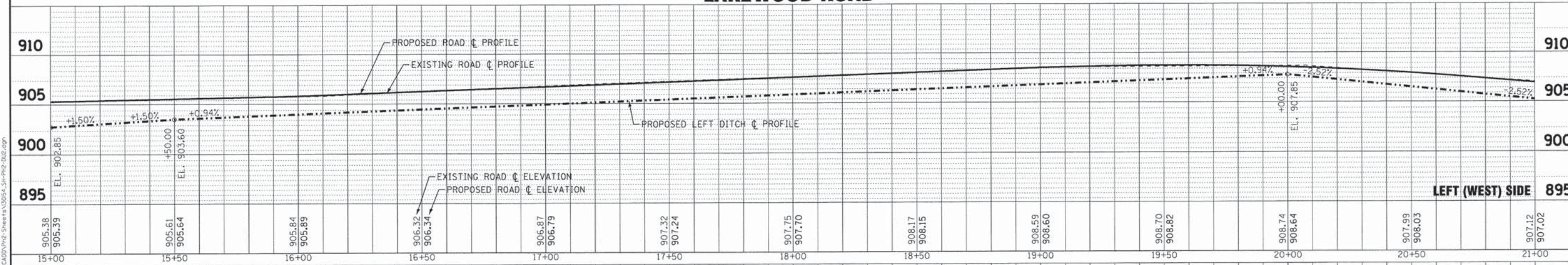
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STA. 10+00 TO STA. 15+00

F.A.U. RITE: 8870 D118	SECTION: 13-00012-00-BT	COUNTY: McHENRY	TOTAL SHEETS: 86	SHEET NO.: 44
C-91-393-13	CONTRACT NO. 61A78			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



LAKEWOOD ROAD



DESIGNED - JDM	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-DU2.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

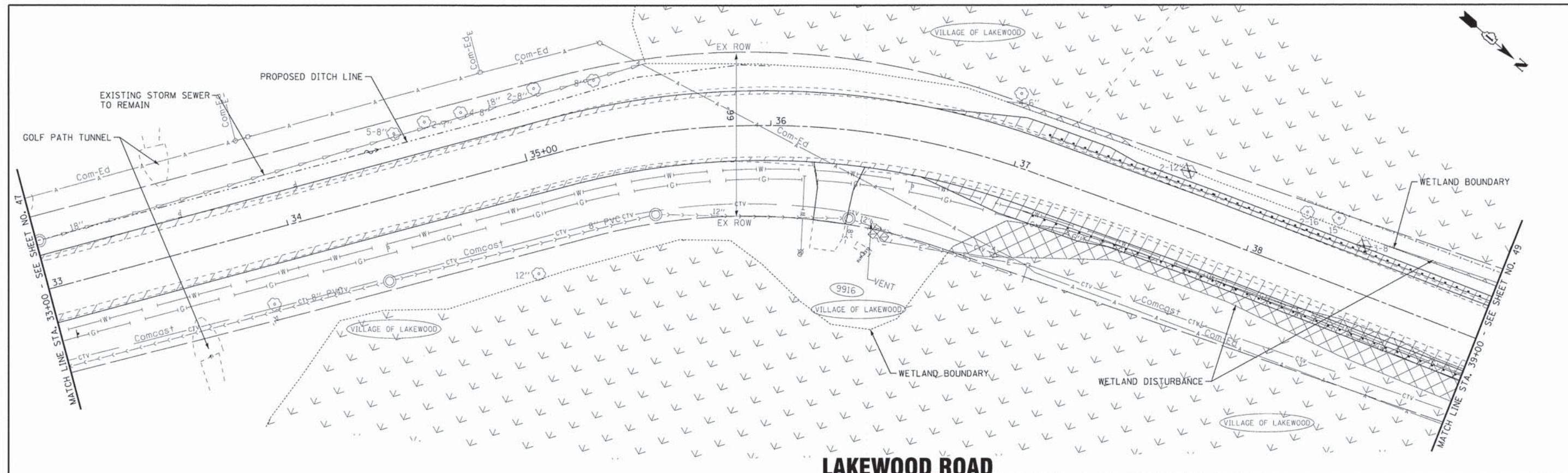
DRAINAGE AND UTILITIES LAKEWOOD ROAD

SCALE: H: 1"=20' V: 1"=5'

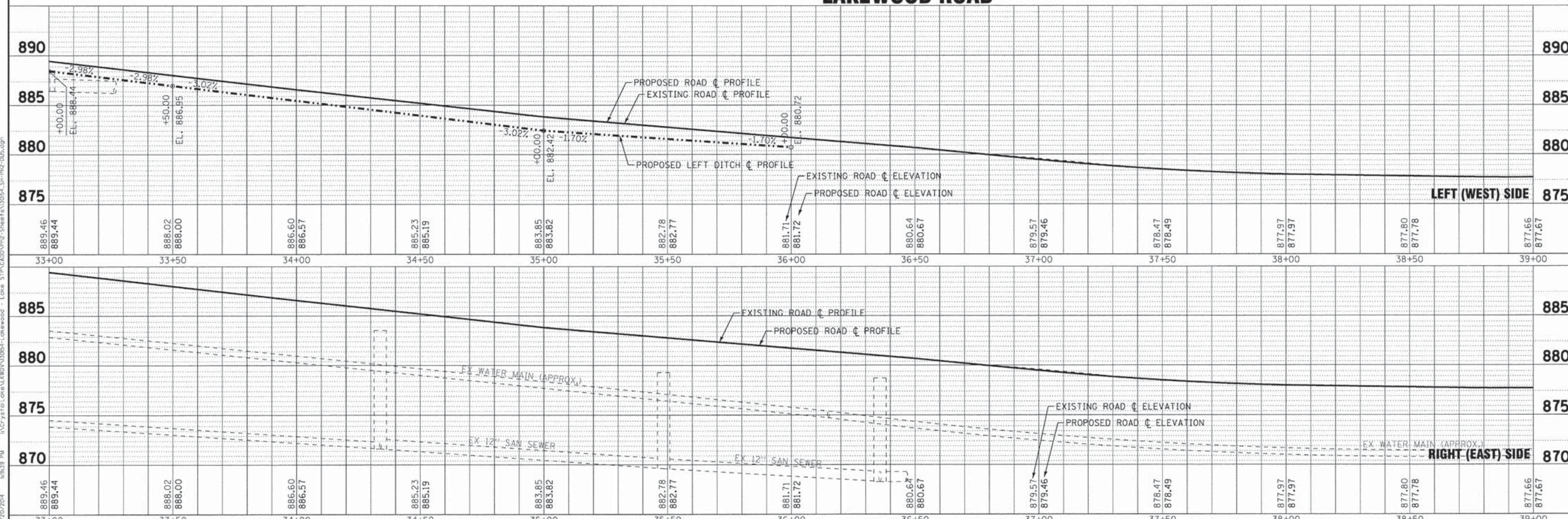
STA. 15+00 TO STA. 21+00

F.A.U. RTE. 3870 0118	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 45
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				

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 LICENSE NO. 187-072072-02
 PROJECT NO. 130154-SH-PH2-DU2.dgn
 DATE: 8/20/14



LAKWOOD ROAD



889.46 889.44	888.02 888.00	886.60 886.57	885.23 885.19	883.85 883.82	882.78 882.77	881.71 881.72	880.64 880.67	879.57 879.46	878.47 878.49	877.97 877.97	877.66 877.67
33+00	33+50	34+00	34+50	35+00	35+50	36+00	36+50	37+00	37+50	38+00	39+00

BAXTER & WOODMAN
Consulting Engineers

DESIGNED - JDM
DRAWN - UKB
CHECKED - DSH
DATE - 8-20-14

REVISED -
REVISED -
REVISED -
FILE - 130154.SH-PH2-DU5.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**DRAINAGE AND UTILITIES
LAKWOOD ROAD**

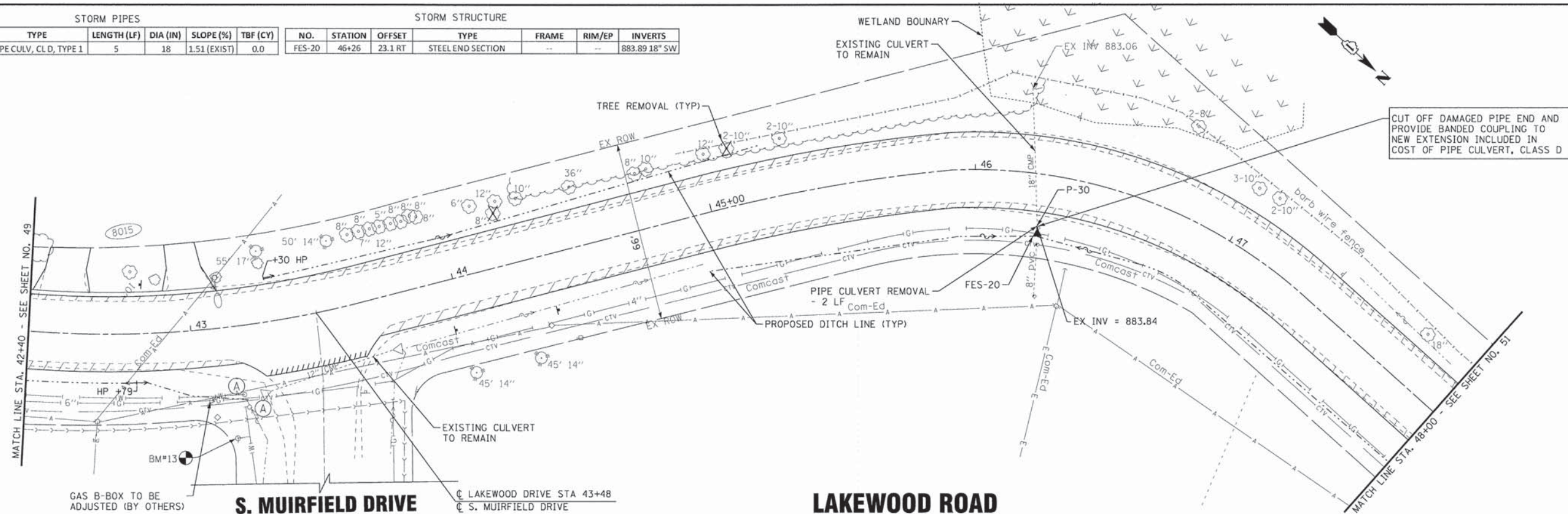
SCALE: H: 1"=20' V: 1"=5'

STA. 33+00 TO STA. 39+00

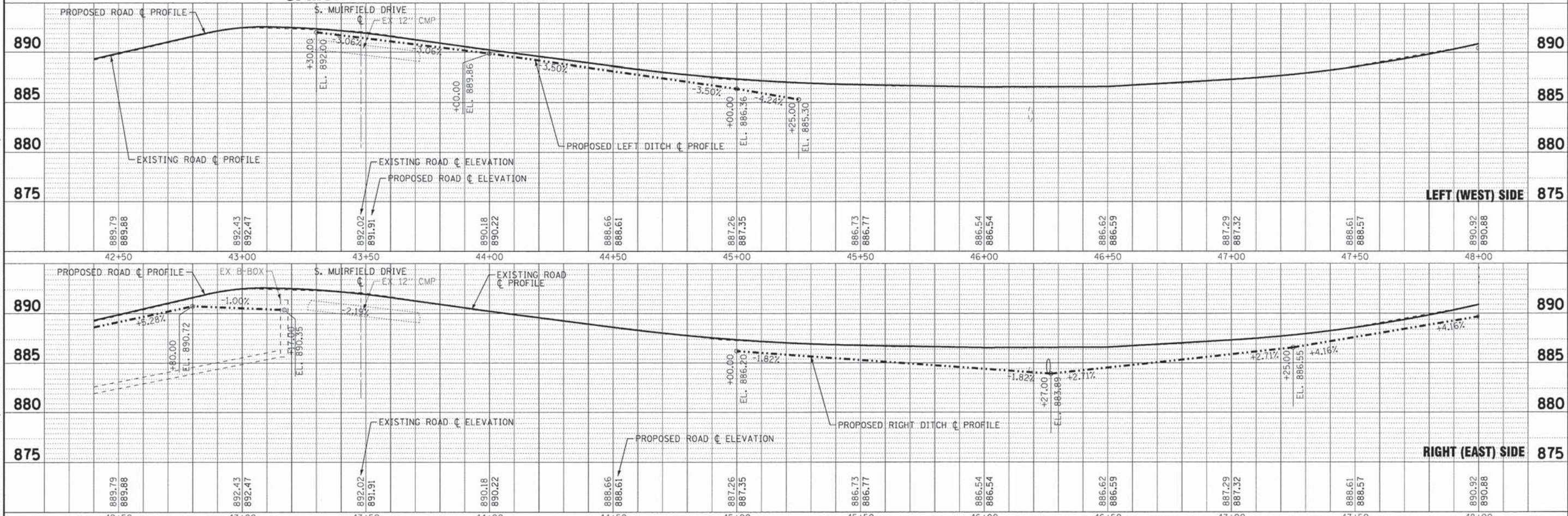
F.A.U. RT. 0118	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 48
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40032171				

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 Project: 130154.SH-PH2-DU5.dgn
 Date: 8/20/2014 10:20:24 AM

STORM PIPES						STORM STRUCTURE						
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE (%)	TBF (CY)	NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
P-30	PIPE CULV, CL D, TYPE 1	5	18	1.51 (EXIST)	0.0	FES-20	46+26	23.1 RT	STEEL END SECTION	--	--	883.89 18" SW



CUT OFF DAMAGED PIPE END AND PROVIDE BANDED COUPLING TO NEW EXTENSION INCLUDED IN COST OF PIPE CULVERT, CLASS D



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 DATE: 8/20/2014 10:40 AM

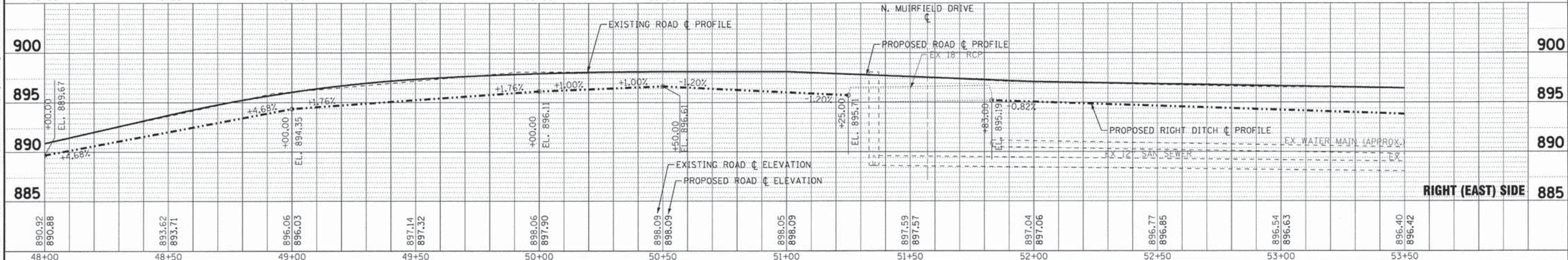
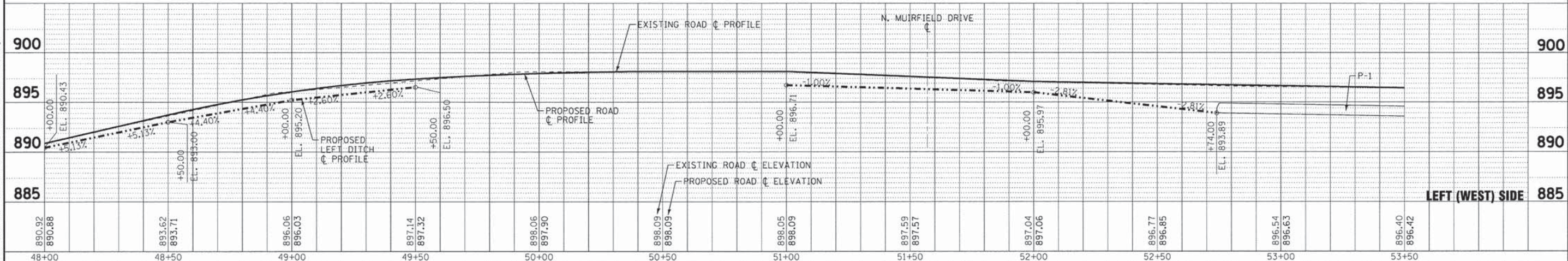
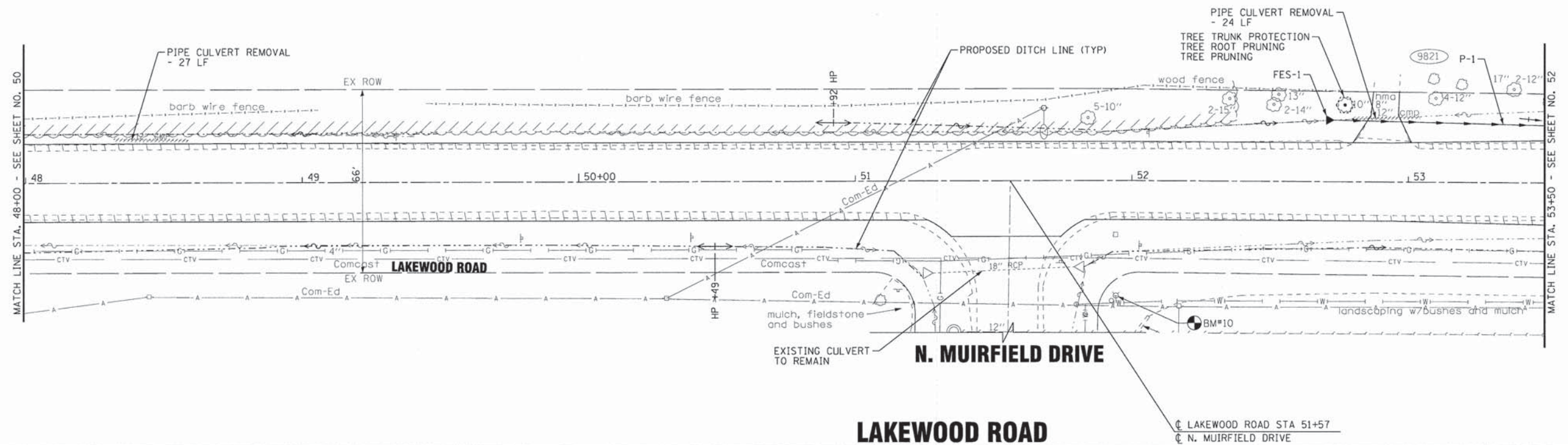
BAXTER & WOODMAN Consulting Engineers	DESIGNED - JDM	REVISED - PER IDOT 10-2-14
	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154.SH-PH2-DU7.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES LAKWOOD ROAD		F.A.U. RTE. 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 50
SCALE: H: 1"=20' V: 1"=5'		STA. 42+40 TO STA. 48+00		CONTRACT NO. 61A78	
		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-4003(217)	

STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
FES-1	S2+74	22.3 LT	PRC FLARED END SECTION	-	-	893.89 12" N

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE (%)	TBF (CY)
P-1	SS, CLA, TYPE 1	91	12	0.40	2.11



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DATE - 8-20-14	FILE - 130154.SH-PH2-DU8.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES
LAKEWOOD ROAD

SCALE: H: 1"=20' V: 1"=5'

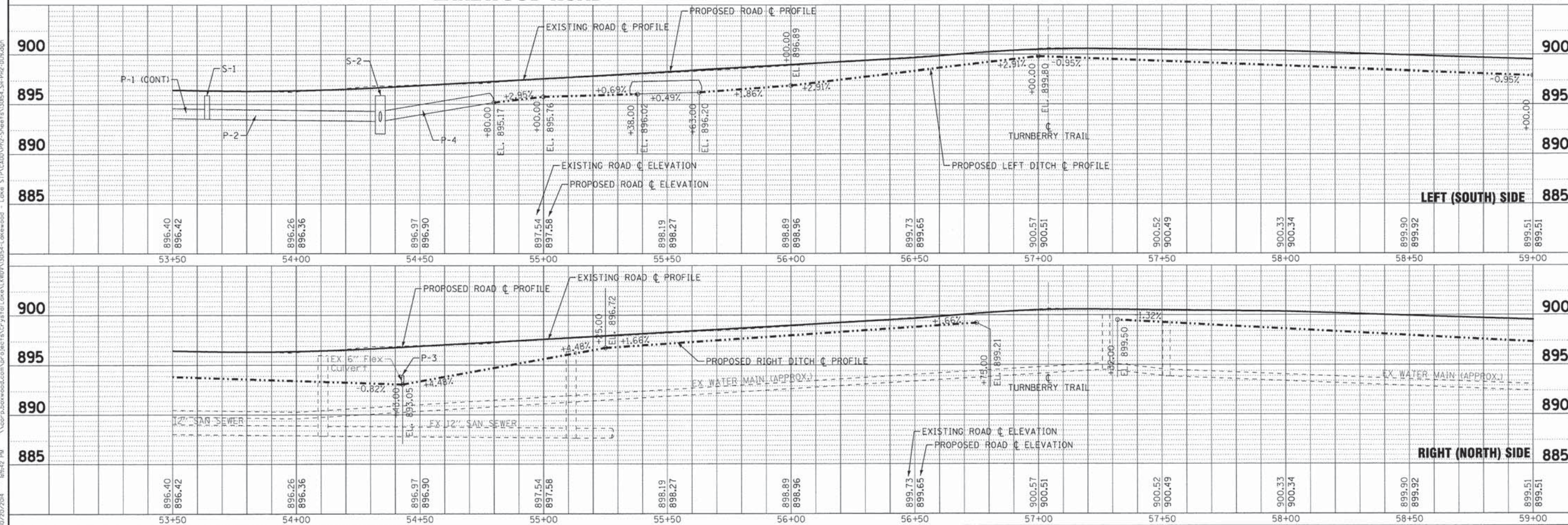
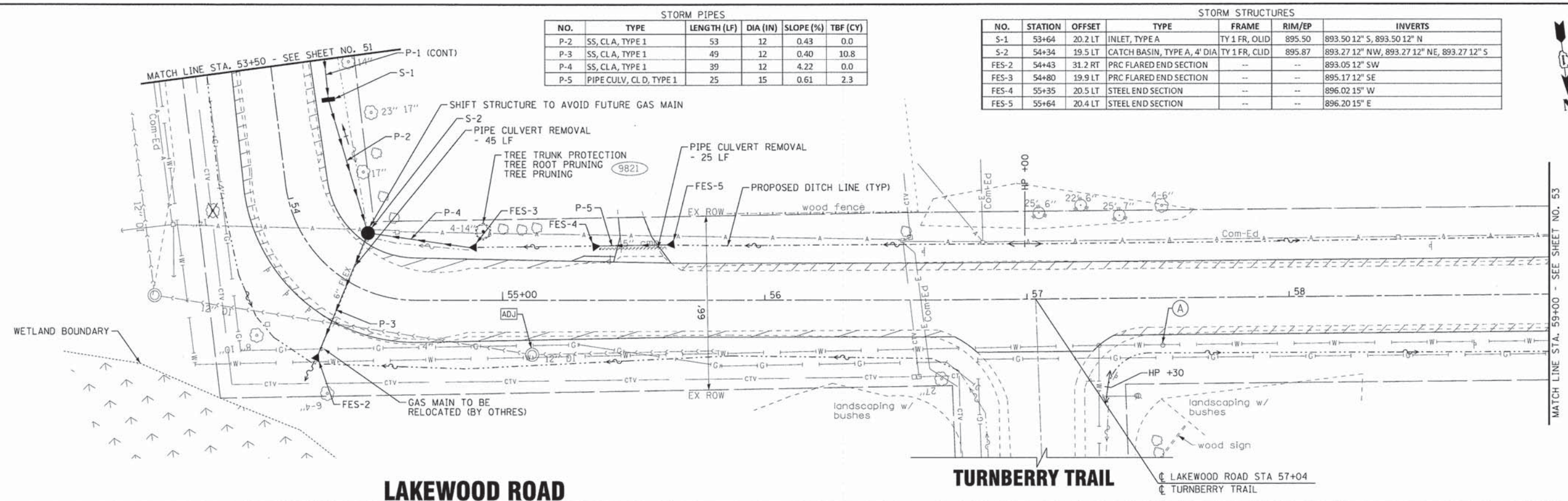
STA. 48+00 TO STA. 53+50

F.A.U. RT. 0118	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 51
C-91-393-13	CONTRACT NO. 61A78		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40032171	

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 PROJECT: 130154.SH-PH2-DU8.dgn
 DATE: 8/20/14

STORM PIPES					
NO.	TYPE	LENGTH (LF)	DIA (IN)	SLOPE (%)	TBF (CY)
P-2	SS, CLA, TYPE 1	53	12	0.43	0.0
P-3	SS, CLA, TYPE 1	49	12	0.40	10.8
P-4	SS, CLA, TYPE 1	39	12	4.22	0.0
P-5	PIPE CULV, CL D, TYPE 1	25	15	0.61	2.3

STORM STRUCTURES						
NO.	STATION	OFFSET	TYPE	FRAME	RIM/EP	INVERTS
S-1	53+64	20.2 LT	INLET, TYPE A	TY 1 FR, OLID	895.50	893.50 12" S, 893.50 12" N
S-2	54+34	19.5 LT	CATCH BASIN, TYPE A, 4' DIA	TY 1 FR, CLID	895.87	893.27 12" NW, 893.27 12" NE, 893.27 12" S
FES-2	54+43	31.2 RT	PRC FLARED END SECTION	--	--	893.05 12" SW
FES-3	54+80	19.9 LT	PRC FLARED END SECTION	--	--	895.17 12" SE
FES-4	55+35	20.5 LT	STEEL END SECTION	--	--	896.02 15" W
FES-5	55+64	20.4 LT	STEEL END SECTION	--	--	896.20 15" E



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DRAWN - UKB	REVISED -
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DATE - 8-20-14	FILE - 130154.SH-PH2-DU9.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

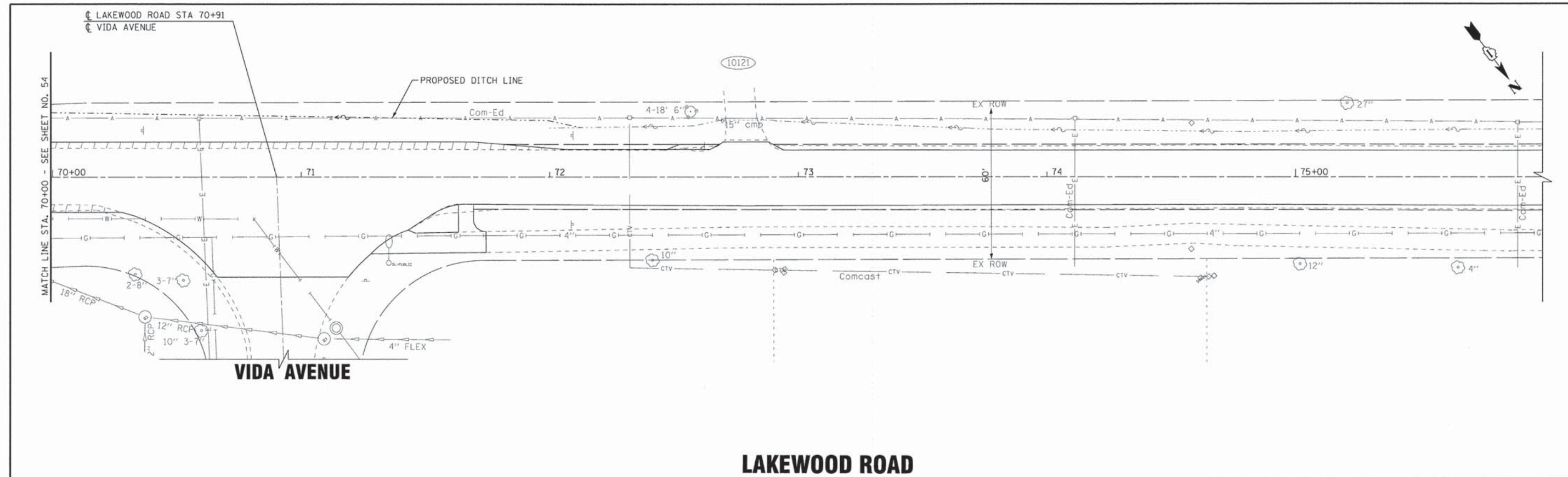
DRAINAGE AND UTILITIES
LAKEWOOD ROAD

SCALE: H: 1"=20' V: 1"=5'

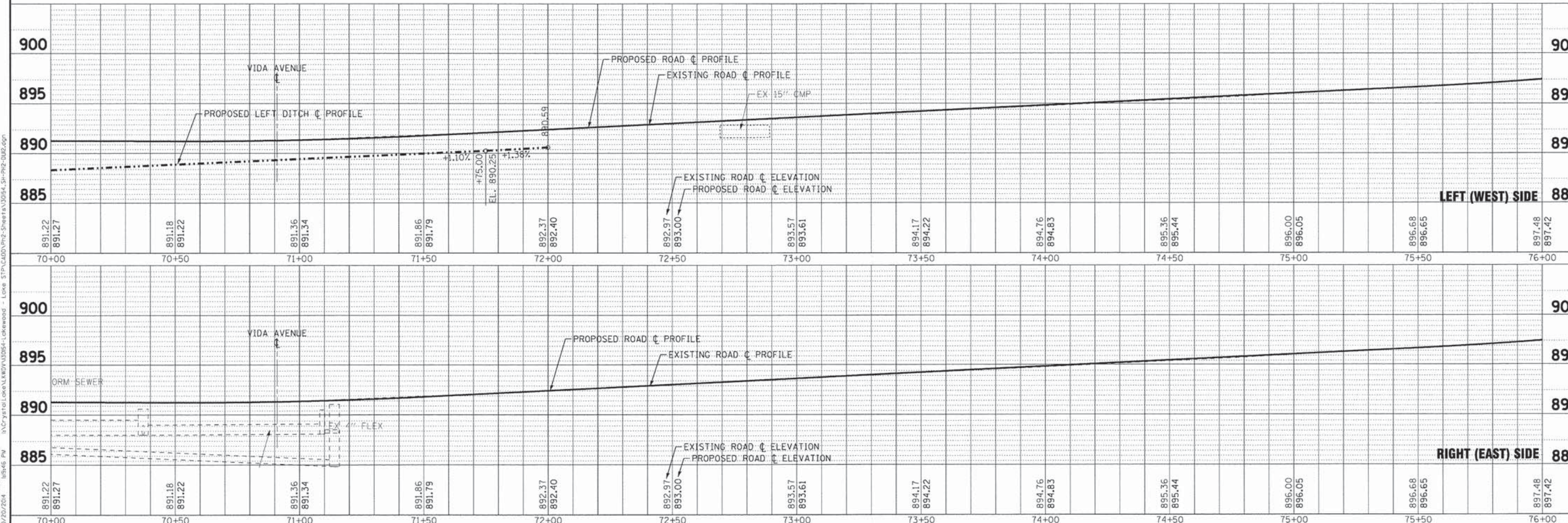
STA. 53+50 TO STA. 59+00

F.A.U. NO. 3870	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 52
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40032171				

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 PROJECT: 130154 - LAKEWOOD ROAD
 SHEET: 52 OF 86
 DATE: 8/20/14



LAKWOOD ROAD



DESIGNED - JDM	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-DUI2.dgn

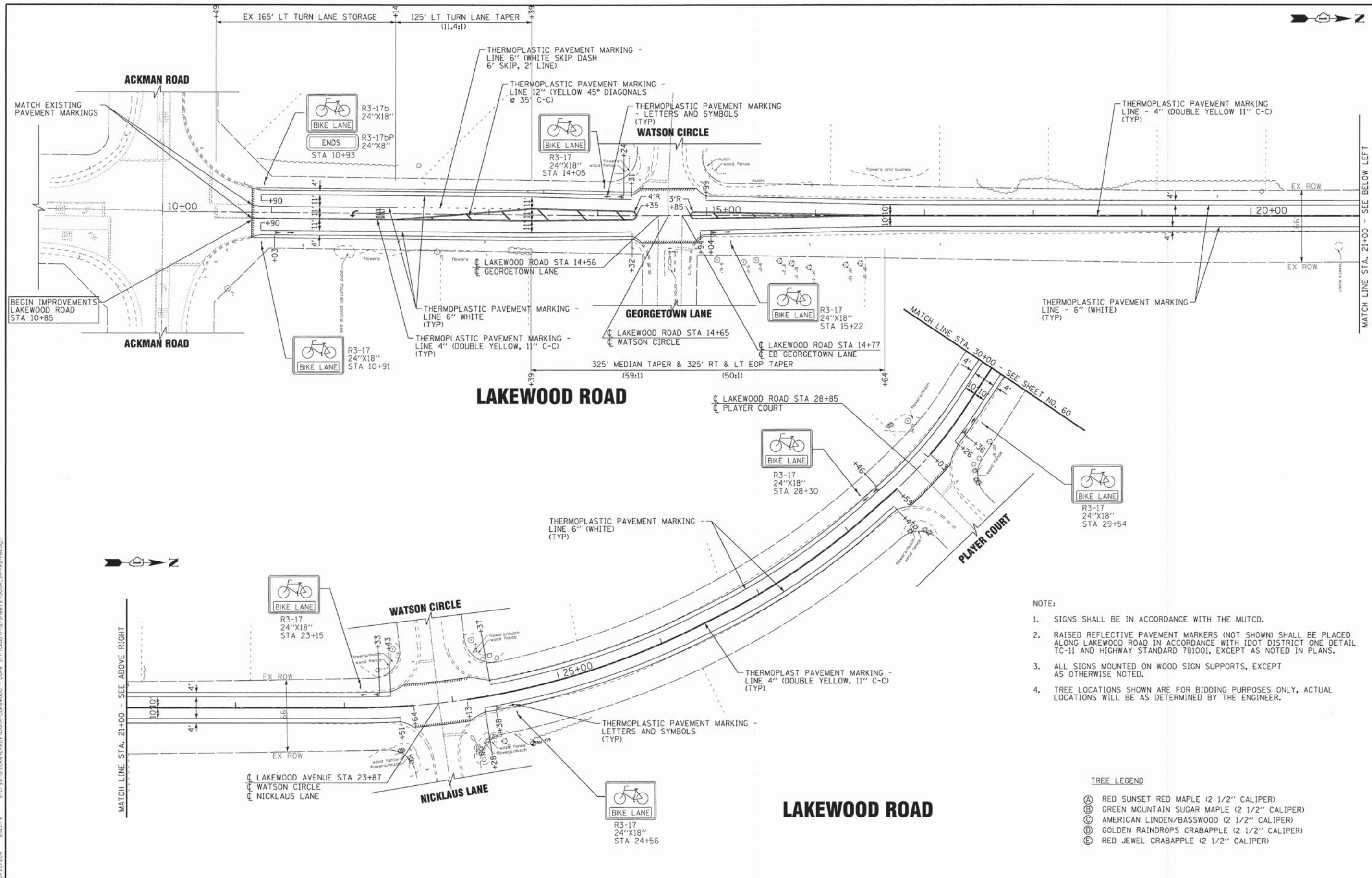
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**DRAINAGE AND UTILITIES
LAKWOOD ROAD**

F.A.U. RT# 0118	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 55
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40032171				

SCALE: H: 1"=20' V: 1"=5'
STA. 70+00 TO STA. 76+00

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 PROJECT: 130154 SH-PH2-DUI2.dgn
 DATE: 8/20/14
 DRAWN BY: UKB
 CHECKED BY: DSH
 DESIGNED BY: JDM



- NOTE:
- SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD.
 - RAISED REFLECTIVE PAVEMENT MARKERS (NOT SHOWN) SHALL BE PLACED ALONG LAKEWOOD ROAD IN ACCORDANCE WITH IDOT DISTRICT ONE DETAIL TC-11 AND HIGHWAY STANDARD 781001, EXCEPT AS NOTED IN PLANS.
 - ALL SIGNS MOUNTED ON WOOD SIGN SUPPORTS, EXCEPT AS OTHERWISE NOTED.
 - TREE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY, ACTUAL LOCATIONS WILL BE AS DETERMINED BY THE ENGINEER.

- TREE LEGEND
- (A) RED SUNSET RED MAPLE (2 1/2" CALIPER)
 - (B) GREEN MOUNTAIN SUGAR MAPLE (2 1/2" CALIPER)
 - (C) AMERICAN LINDEN/BASSWOOD (2 1/2" CALIPER)
 - (D) GOLDEN RAINDROPS CRABAPPLE (2 1/2" CALIPER)
 - (E) RED JEWEL CRABAPPLE (2 1/2" CALIPER)

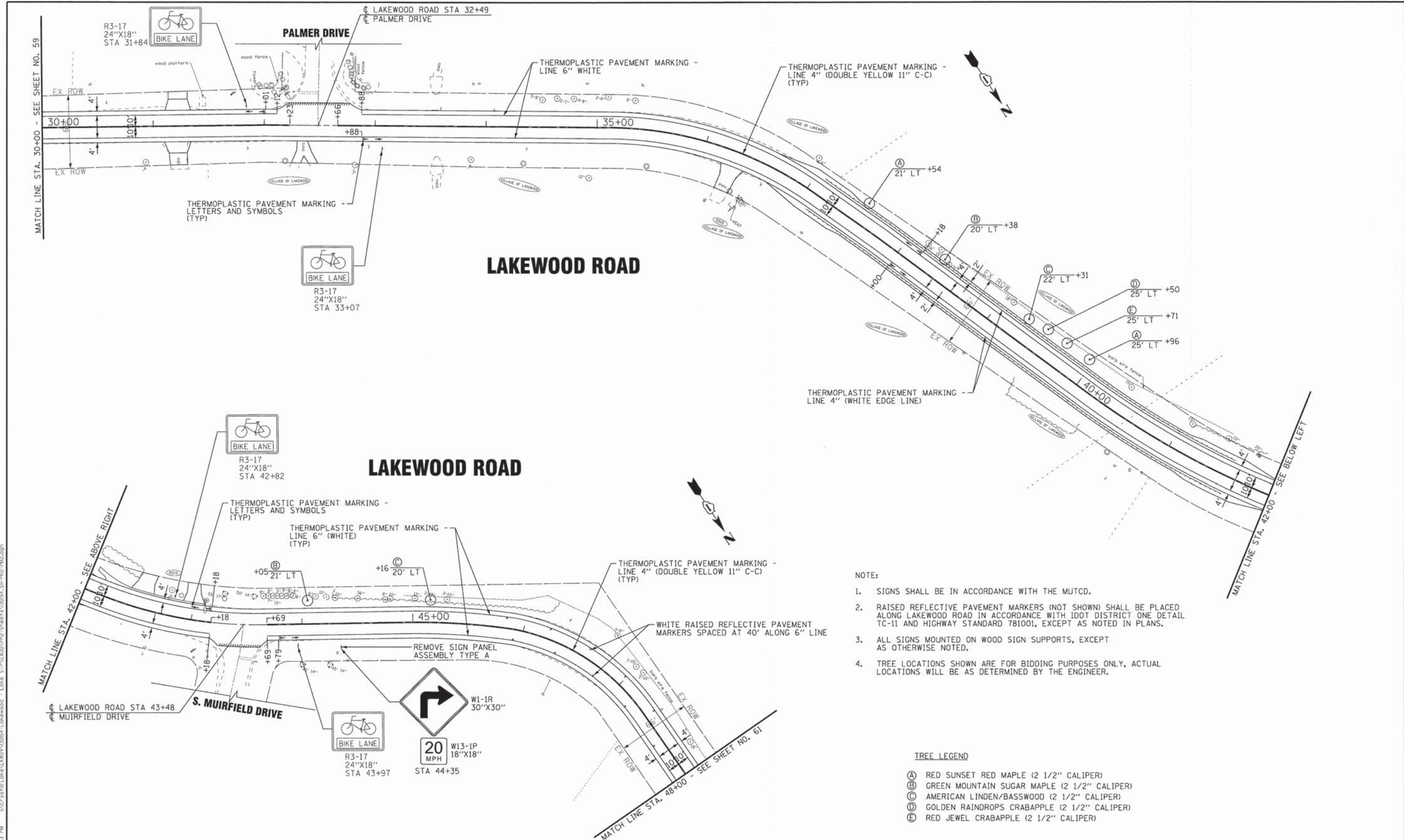
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	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154_SH-PH2-PM1.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING, SIGNAGE AND TREE PLACEMENT LAKEWOOD ROAD	
SCALE: 1"=40'	STA. 10+00 TO STA. 30+00

F.A.U. RTE. 1370	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 59
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40032171				



- NOTE:
- SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD.
 - RAISED REFLECTIVE PAVEMENT MARKERS (NOT SHOWN) SHALL BE PLACED ALONG LAKEWOOD ROAD IN ACCORDANCE WITH IDOT DISTRICT ONE DETAIL TC-11 AND HIGHWAY STANDARD 781001, EXCEPT AS NOTED IN PLANS.
 - ALL SIGNS MOUNTED ON WOOD SIGN SUPPORTS, EXCEPT AS OTHERWISE NOTED.
 - TREE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY, ACTUAL LOCATIONS WILL BE AS DETERMINED BY THE ENGINEER.

- TREE LEGEND
- (A) RED SUNSET RED MAPLE (2 1/2" CALIPER)
 - (B) GREEN MOUNTAIN SUGAR MAPLE (2 1/2" CALIPER)
 - (C) AMERICAN LINDEN/BASSWOOD (2 1/2" CALIPER)
 - (D) GOLDEN RAINDROPS CRABAPPLE (2 1/2" CALIPER)
 - (E) RED JEWEL CRABAPPLE (2 1/2" CALIPER)

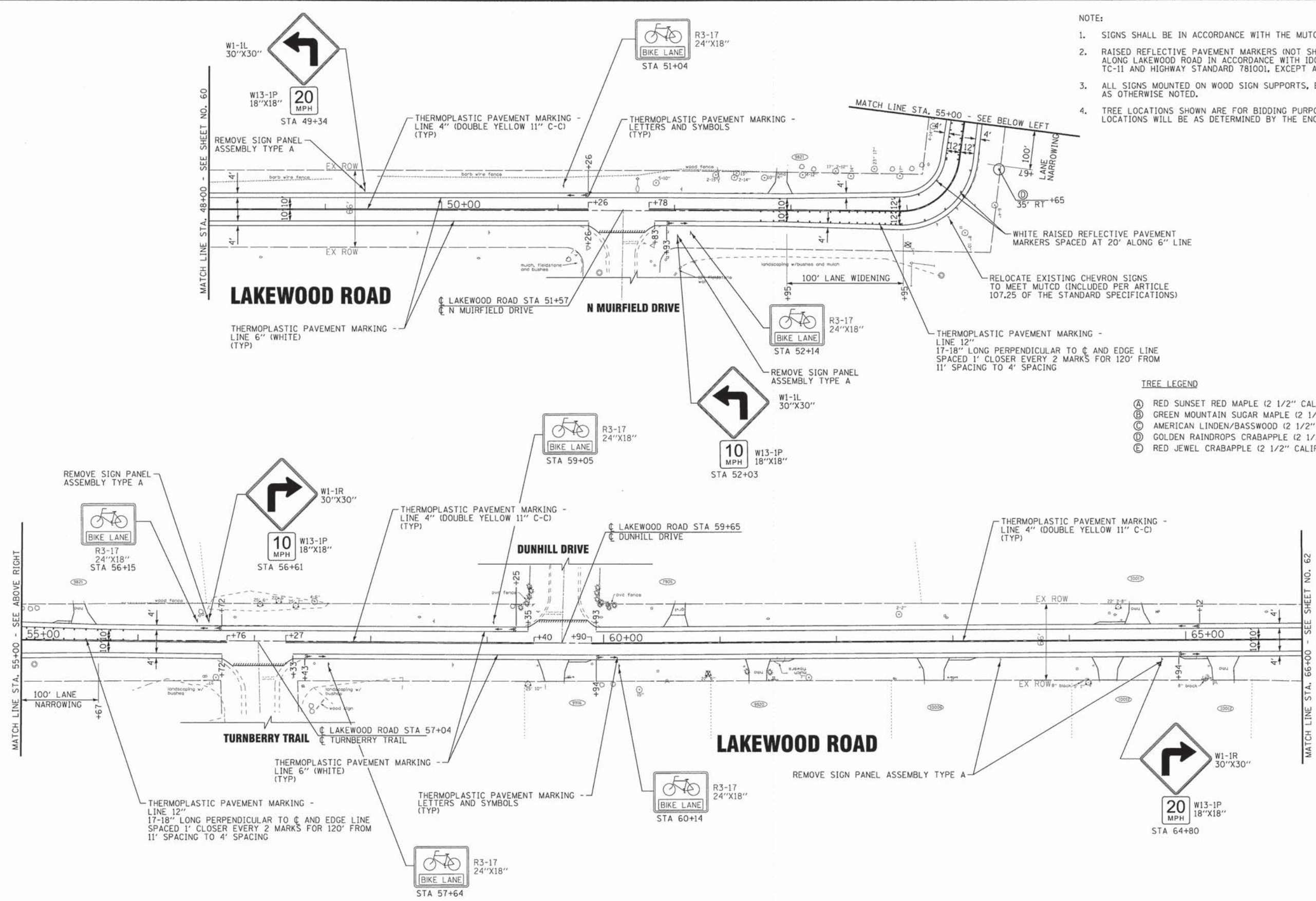
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 PROJECT: 13-00012-00-BT
 SHEET: 60 OF 86
 DATE: 8/20/2014 10:20:24 AM

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	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154_SH-PH2-PM2.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING, SIGNAGE AND TREE PLACEMENT PLAN LAKEWOOD ROAD		F.A.U. RTE. 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 60
SCALE: 1"=40'		STA. 30+00 TO STA. 48+00		CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40032171					

- NOTE:
- SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD.
 - RAISED REFLECTIVE PAVEMENT MARKERS (NOT SHOWN) SHALL BE PLACED ALONG LAKEWOOD ROAD IN ACCORDANCE WITH IDOT DISTRICT ONE DETAIL TC-11 AND HIGHWAY STANDARD 781001, EXCEPT AS NOTED IN PLANS.
 - ALL SIGNS MOUNTED ON WOOD SIGN SUPPORTS, EXCEPT AS OTHERWISE NOTED.
 - TREE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY, ACTUAL LOCATIONS WILL BE AS DETERMINED BY THE ENGINEER.



- TREE LEGEND
- (A) RED SUNSET RED MAPLE (2 1/2\" CALIPER)
 - (B) GREEN MOUNTAIN SUGAR MAPLE (2 1/2\" CALIPER)
 - (C) AMERICAN LINDEN/BASSWOOD (2 1/2\" CALIPER)
 - (D) GOLDEN RAINDROPS CRABAPPLE (2 1/2\" CALIPER)
 - (E) RED JEWEL CRABAPPLE (2 1/2\" CALIPER)

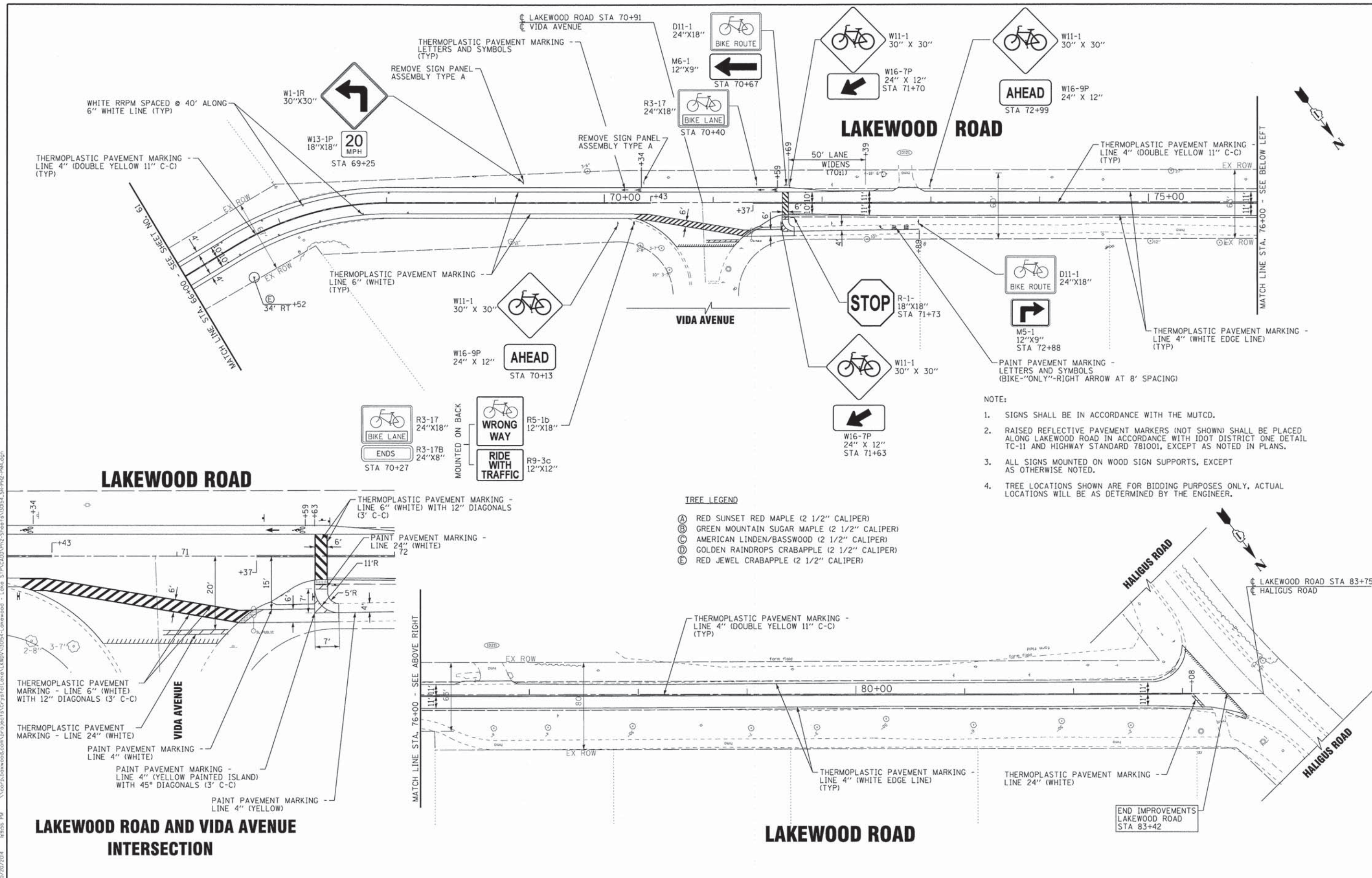
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 WWW.BAXTERANDWOODMAN.COM

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	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154_SH-PH2-PM3.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING SIGNAGE AND TREE PLACEMENT PLAN LAKEWOOD ROAD	
SCALE: 1"=40'	STA. 48+00 TO STA. 66+00

F.A.U. RTE. 13070 0118	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 61
C-91-393-13	CONTRACT NO. 61A78			
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003217				



- NOTE:
- SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD.
 - RAISED REFLECTIVE PAVEMENT MARKERS (NOT SHOWN) SHALL BE PLACED ALONG LAKEWOOD ROAD IN ACCORDANCE WITH IDOT DISTRICT ONE DETAIL TC-11 AND HIGHWAY STANDARD 781001, EXCEPT AS NOTED IN PLANS.
 - ALL SIGNS MOUNTED ON WOOD SIGN SUPPORTS, EXCEPT AS OTHERWISE NOTED.
 - TREE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY, ACTUAL LOCATIONS WILL BE AS DETERMINED BY THE ENGINEER.

- TREE LEGEND
- (A) RED SUNSET RED MAPLE (2 1/2" CALIPER)
 - (B) GREEN MOUNTAIN SUGAR MAPLE (2 1/2" CALIPER)
 - (C) AMERICAN LINDEN/BASSWOOD (2 1/2" CALIPER)
 - (D) GOLDEN RAINDROPS CRABAPPLE (2 1/2" CALIPER)
 - (E) RED JEWEL CRABAPPLE (2 1/2" CALIPER)

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DATE - 8-20-14	FILE - 130154.SH-PH2-PM4.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNAGE AND TREE PLACEMENT PLAN
LAKEWOOD ROAD

SCALE: 1"=40' STA. 66+00 TO STA. 83+42

F.A.U. RTE. 387D 018	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 62
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400312171				

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THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SKIP DASH - 6" SKIP, 2' LINE) (TYP)

BEGIN IMPROVEMENTS LAKE AVENUE STA 101+00

R3-17 24"x18" BIKE LANE STA 101+80

R3-17 24"x18" BIKE LANE ENDS STA 101+60
R3-17b 24"x18" BIKE LANE STA 102+93

PAINT PAVEMENT MARKING - LINE 4" (WHITE, 45° DIAGONALS @ 3' C-C) (TYP)

PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS

PAINT PAVEMENT MARKING - LINE 4" (WHITE) (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW 11" C-C) (TYP)

MATCH LINE STA. 109+50 - SEE BELOW LEFT

LAKE AVENUE

THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (TYP)
THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP)

NOTE:

1. SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD.
2. ALL SIGNS MOUNTED ON WOOD SIGN SUPPORTS, EXCEPT AS OTHERWISE NOTED.
3. TREE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY, ACTUAL LOCATIONS WILL BE AS DETERMINED BY THE ENGINEER.

TREE LEGEND

- (A) RED SUNSET RED MAPLE (2 1/2" CALIPER)
- (B) GREEN MOUNTAIN SUGAR MAPLE (2 1/2" CALIPER)
- (C) AMERICAN LINDEN/BASSWOOD (2 1/2" CALIPER)
- (D) GOLDEN RAINDROPS CRABAPPLE (2 1/2" CALIPER)
- (E) RED JEWEL CRABAPPLE (2 1/2" CALIPER)

PAINT PAVEMENT MARKING - LINE 4" (WHITE 45° DIAGONALS @ 3' C-C) (TYP)

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)

PAINT PAVEMENT MARKING - LINE 4" (WHITE) (TYP)

LAKE AVENUE

MATCH LINE STA. 109+50 - SEE ABOVE RIGHT

MATCH LINE STA. 109+50 - SEE ABOVE RIGHT

PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS

R4-11 30"x30" MAY USE FULL LANE STA 112+72

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGELINE)

THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SKIP DASH - 6" SKIP, 2' LINE) (TYP)

LAKE STREET STA 113+21

HUNTLEY ROAD

SHOULDER RUMBLE STRIPS, 8-INCH (ALONG LT EOP STA 113+20 TO 113+68) (SEE DETAIL SHEET NO. 64)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH - 6" SKIP, 2' LINE) ALONG CENTERLINE BETWEEN STOP BARS

THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) (TYP)

PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS

W3-1 30"x30" STA 111+75

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW 11" C-C) (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (TYP)

END IMPROVEMENTS LAKE AVENUE STA 114+18

HUNTLEY ROAD



DESIGNED - JDM	REVISED - PER IDOT 10-2-14
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DATE - 8-20-14	FILE - 130154_SH-PH2-PM5.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

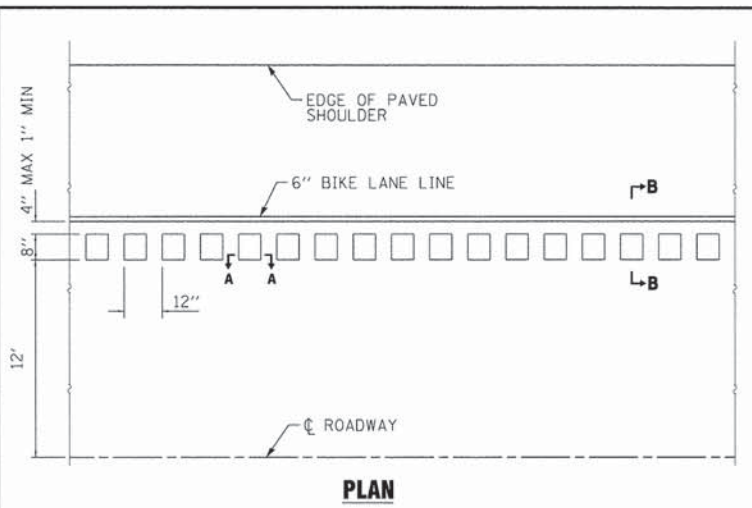
**PAVEMENT MARKING, SIGNAGE AND TREE PLACEMENT PLAN
LAKE AVENUE**

SCALE: 1"=40'

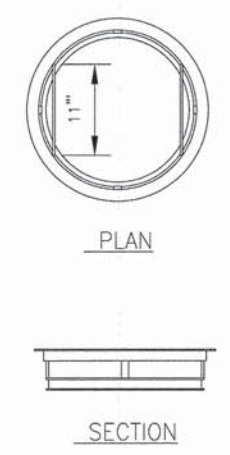
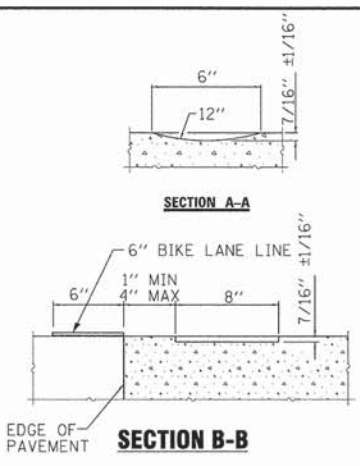
STA. 100+00 TO STA. 114+18

F.A.U. RTE. 3870 0118	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 63
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(217)				

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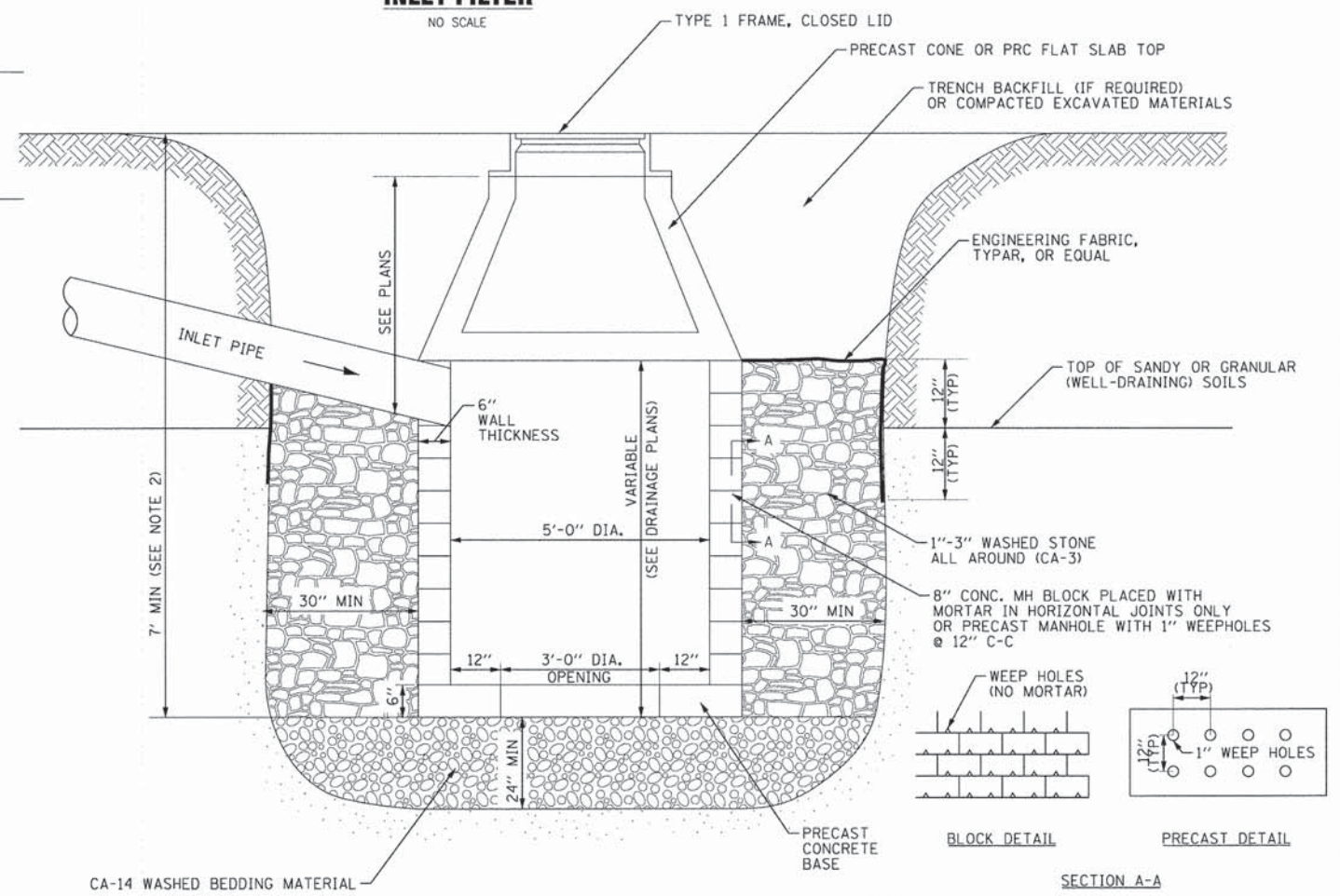


SHOULDER RUMBLE STRIPS, 8-INCH DETAIL
NO SCALE



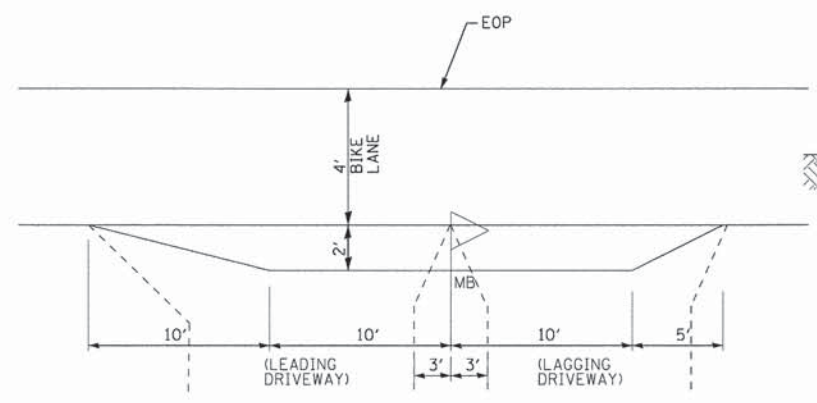
GENERAL NOTES:
 FRAME: TOP RING CONSTRUCTED FROM 1 1/4" x 1 1/4" x 1/8" ANGLE. BASE RING CONSTRUCTED OF 1 1/2" x 1/2" x 1/8" CHANNEL. HANDLES & SUSPENSION BRACKETS CONSTRUCTED FROM 1/4" x 1 1/4" FLAT. ALL STEEL CONFORMING TO ASTM-A36.
 REPLACEABLE BAG: CONSTRUCTED FROM 4 OZ./SQ. YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. CONNECTED TO BASE RING WITH STAINLESS STEEL STRAP & LOCK.

INLET FILTER
NO SCALE



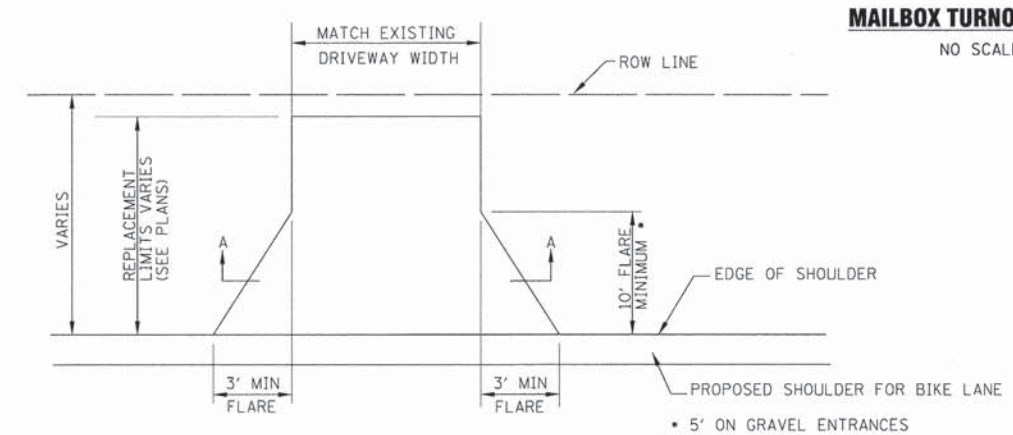
DRYWELL DETAIL
NO SCALE

NOTES:
 1. WEEP HOLES SHALL NOT BE INSTALLED IN STRUCTURE WALLS ABOVE THE INVERT OF INLET PIPE OR TOP OF WASHED STONE LAYER, WHICHEVER IS LOWER.
 2. THE BOTTOM OF THE DRYWELL SHALL BE ABOVE THE NORMAL UNDERGROUND WATER LEVEL.
 3. DRYWELL BOTTOM SHALL PENETRATE WELL-DRAINING SOILS A MINIMUM OF 24".

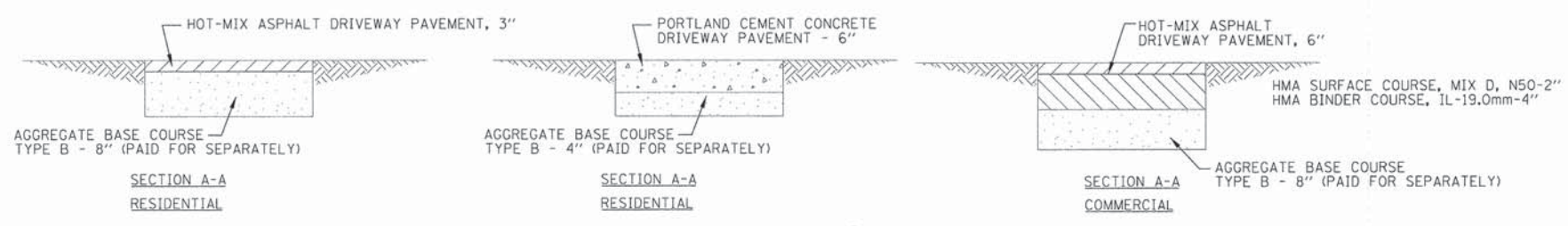


NOTES:
 1. FACE OF MB SHALL BE 6" TO 12" FROM EDGE OF TURNOUT AND MINIMUM OF 2' FROM EDGE OF BIKE LANE.
 2. MB SHALL BE A MINIMUM OF 36" FROM DRIVEWAY EDGE WHEN ADJACENT TO A DRIVEWAY.

MAILBOX TURNOUT DETAIL
NO SCALE



DRIVEWAYS
NO SCALE

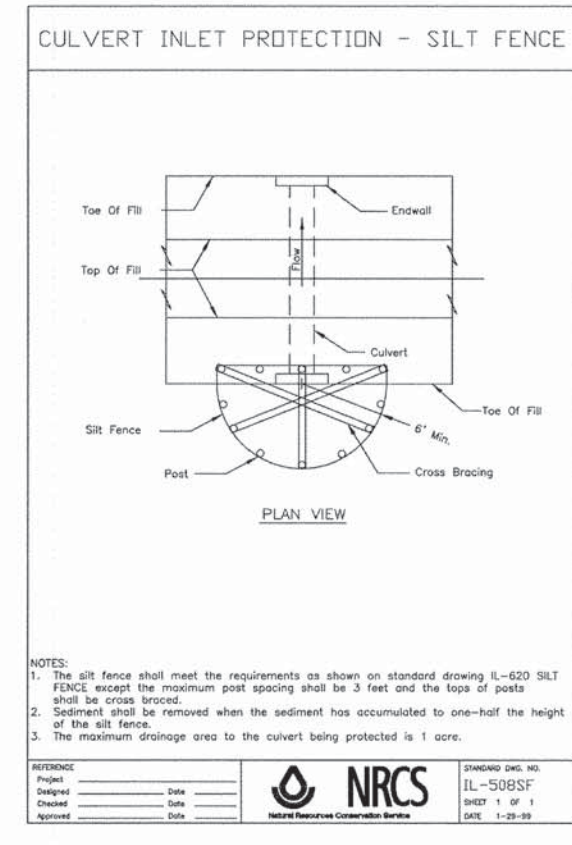
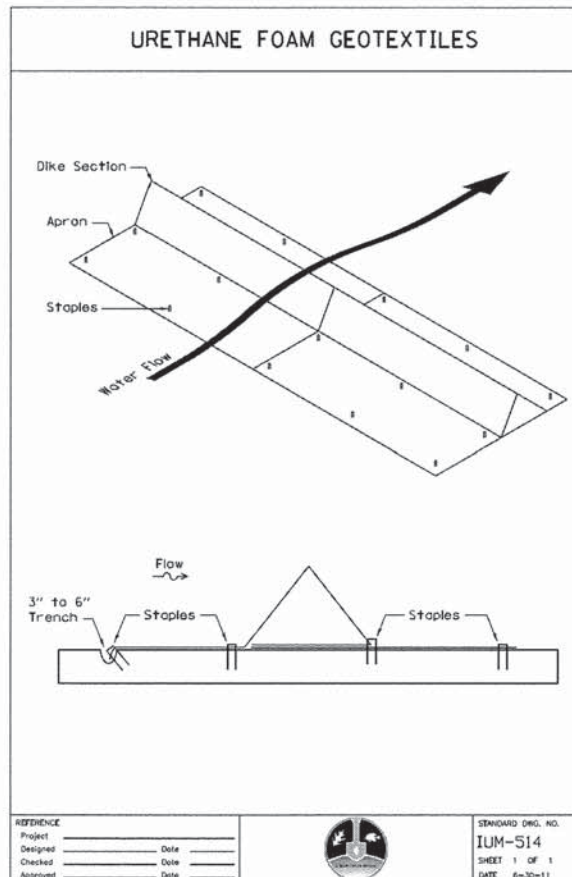
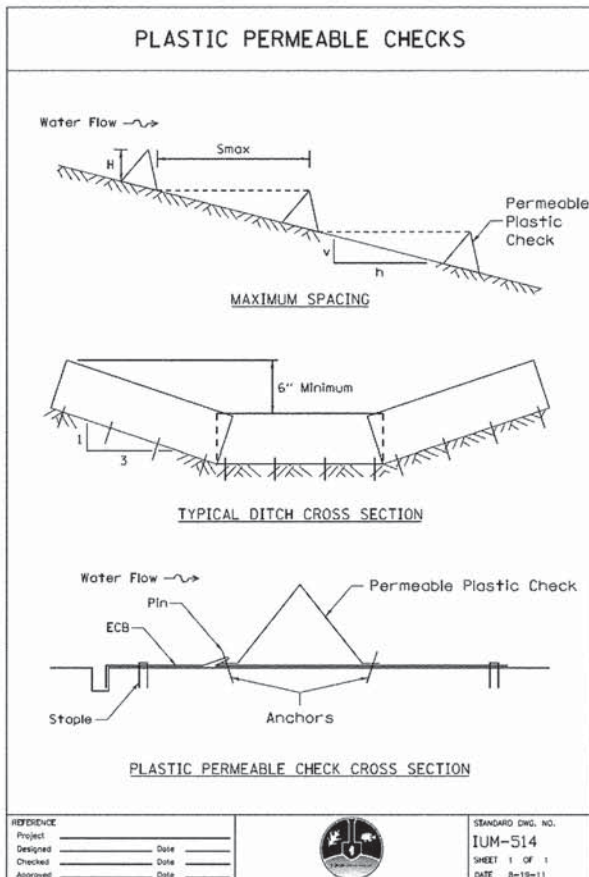
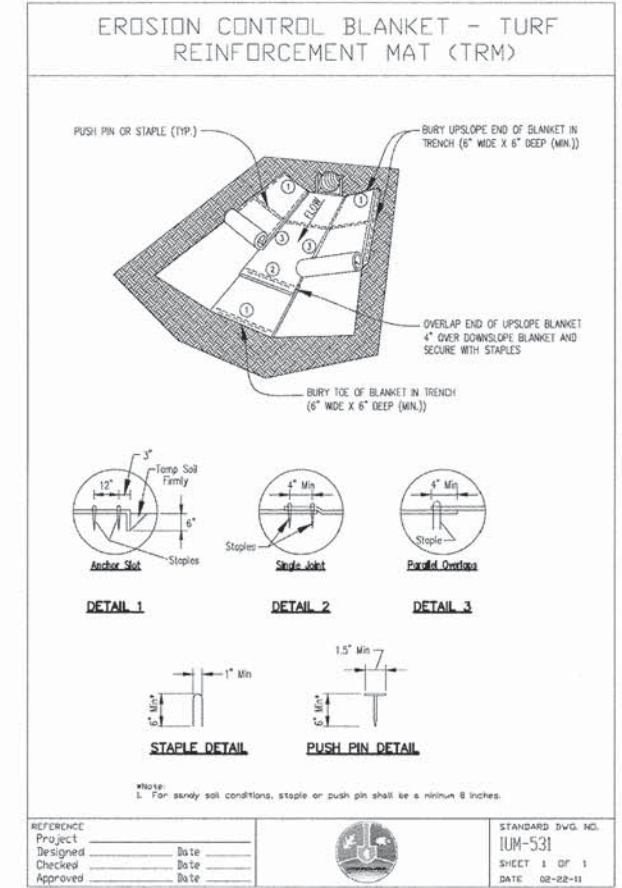
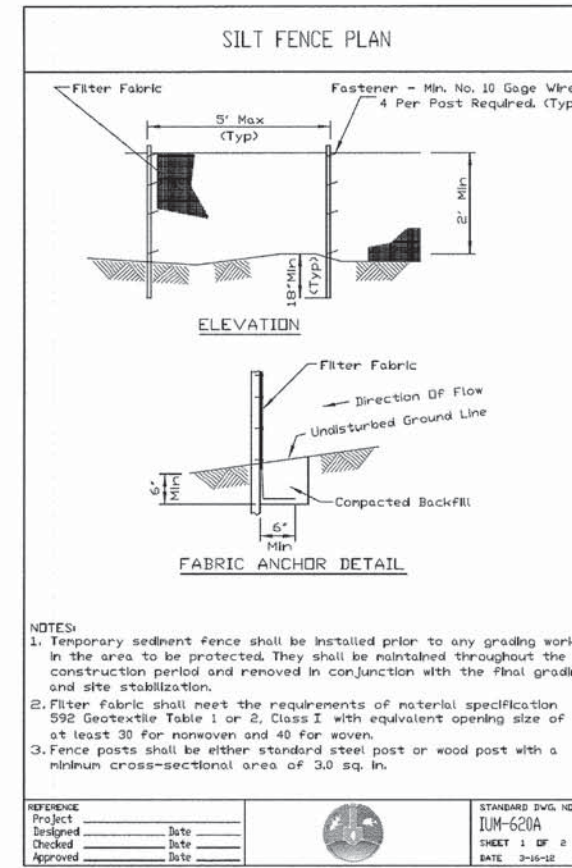
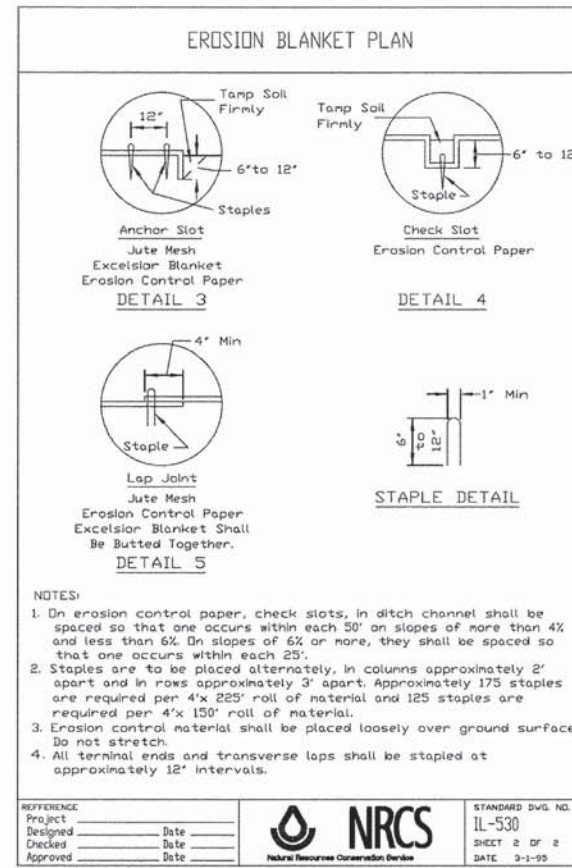
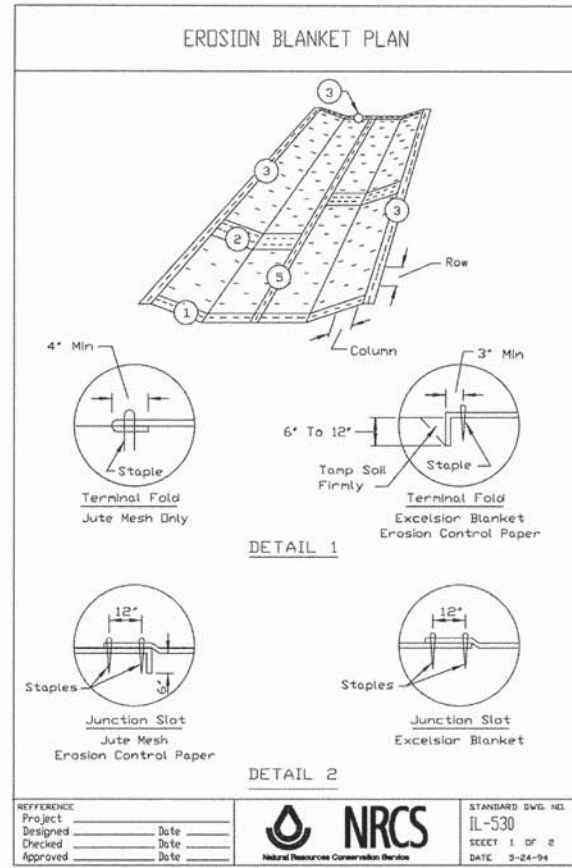


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BAXTER & WOODMAN Consulting Engineers	DESIGNED - JDM	REVISED - PER IDOT 10-2-14
	DRAWN - UKB	REVISED -
	CHECKED - DSH	REVISED -
	DATE - 8-20-14	FILE - 130154.SH-PH2-MISC-DETS.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS		F.A.U. STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	STA. TO STA.	3870	13-00012-00-BT	McHENRY	86	64
		C-91-393-13	CONTRACT NO. 61A78			
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



DESIGNED - JDM	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	FILE - 130154_SH-PH2-MISC-DETS.qgn

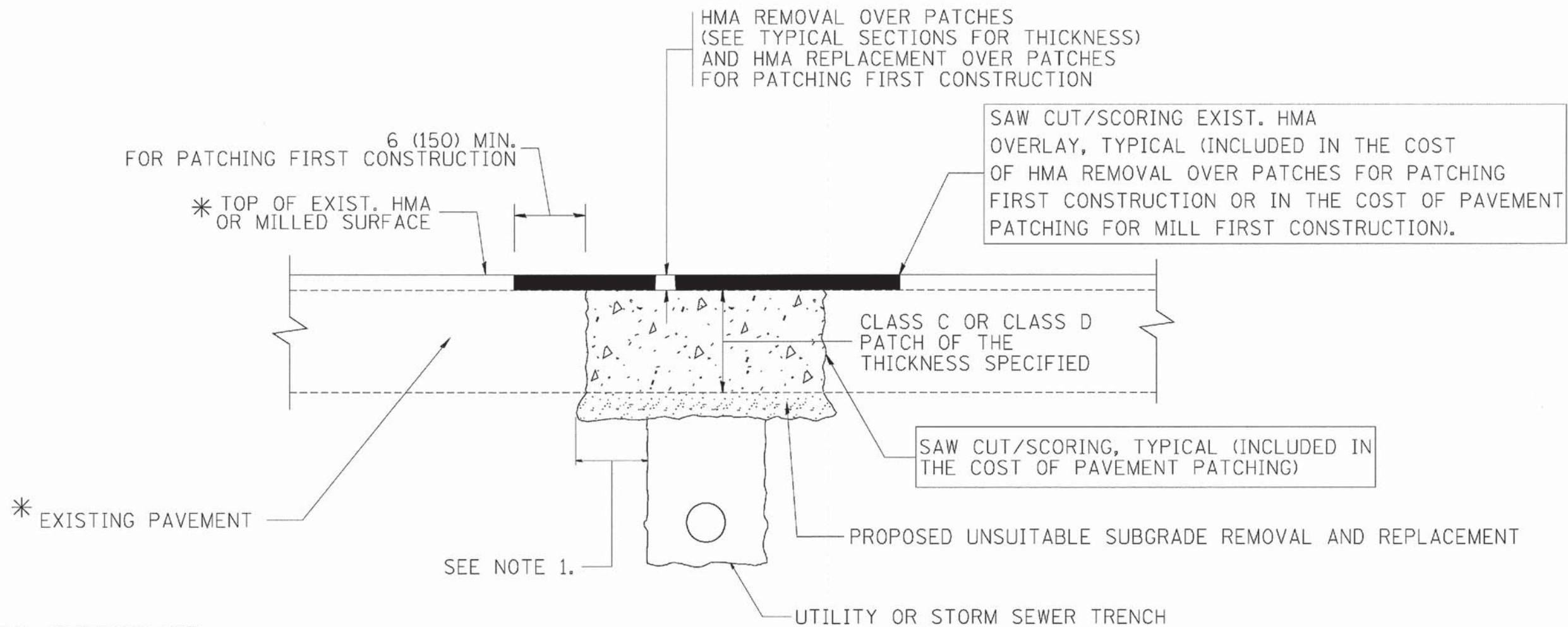
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS DETAILS

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
130154	13-00012-00-BT	McHENRY	86	65
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				

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 1500 W. 14TH ST., SUITE 200, CHICAGO, IL 60604
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* 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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 LICENSE NO. 184-000217 EXP. 07/31/2015
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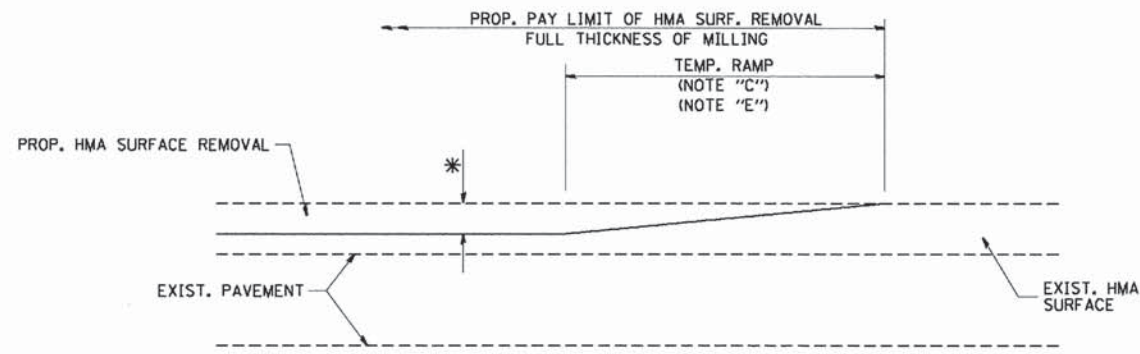
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		CHECKED -	REVISED - R. BORO 09-04-07
		DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

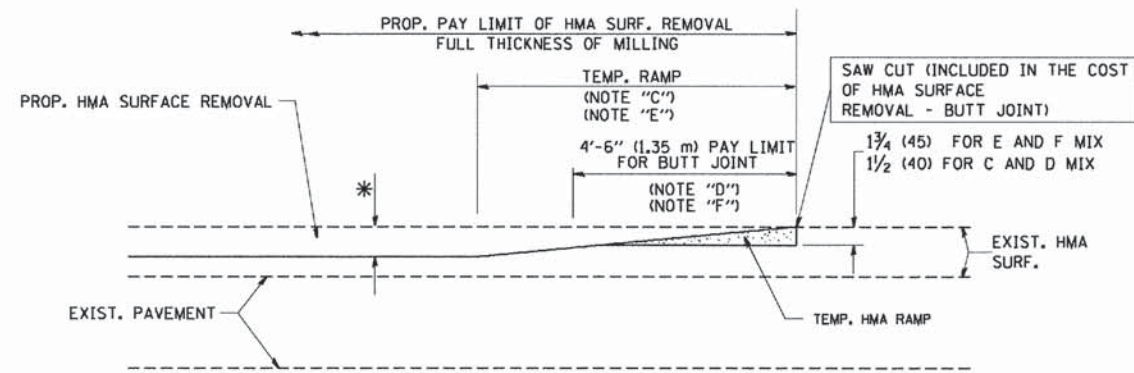
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BD400-04 (BD-22)		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				

C-91-393-13



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

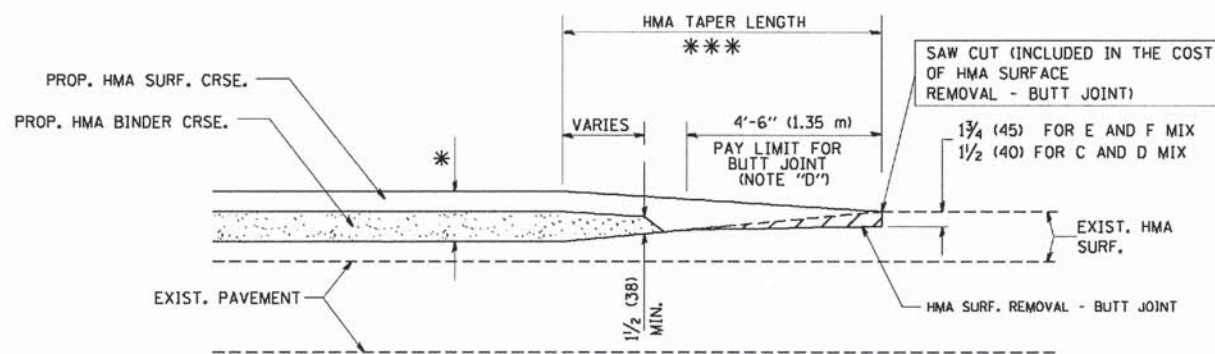
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

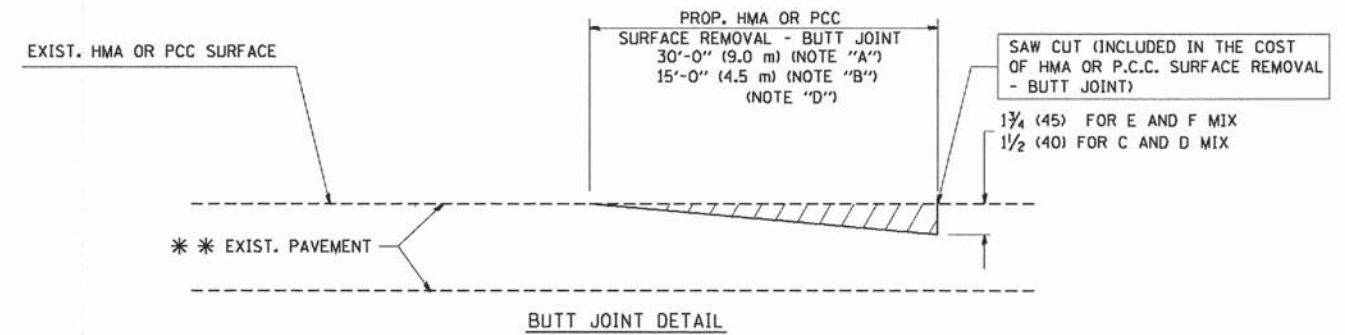
OPTION 2

TYPICAL TEMPORARY RAMP

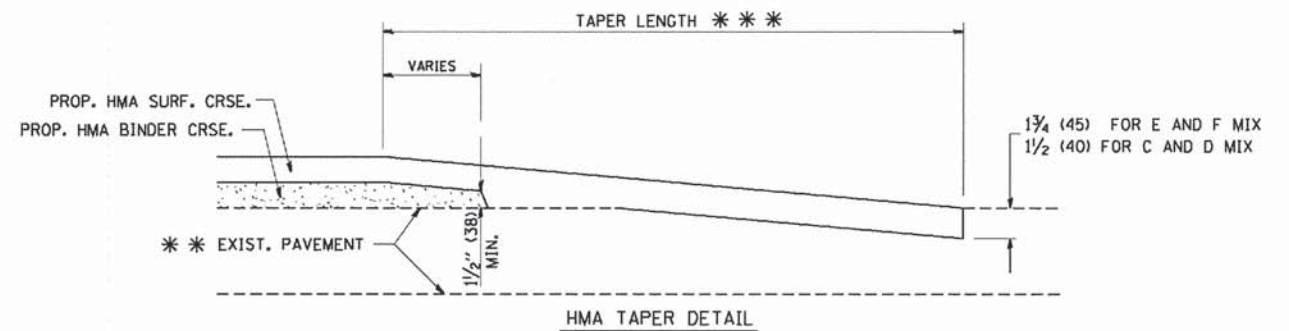


BUTT JOINT AND
HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

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 DRAWN -
 CHECKED -
 DATE - 06-13-90
 REVISED - R. SHAH 10-25-94
 REVISED - A. ABBAS 03-21-97
 REVISED - M. GOMEZ 04-06-01
 REVISED - R. BORO 01-01-07
 PLOT SCALE = 5/8" = 1' IN.
 PLOT DATE = 1/4/2008
 F.A.U. RTE. 13-00012-00-BT
 COUNTY McHENRY
 SHEETS 86
 SHEET NO. 67
 CONTRACT NO. 61A78
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)
 C-91-393-13

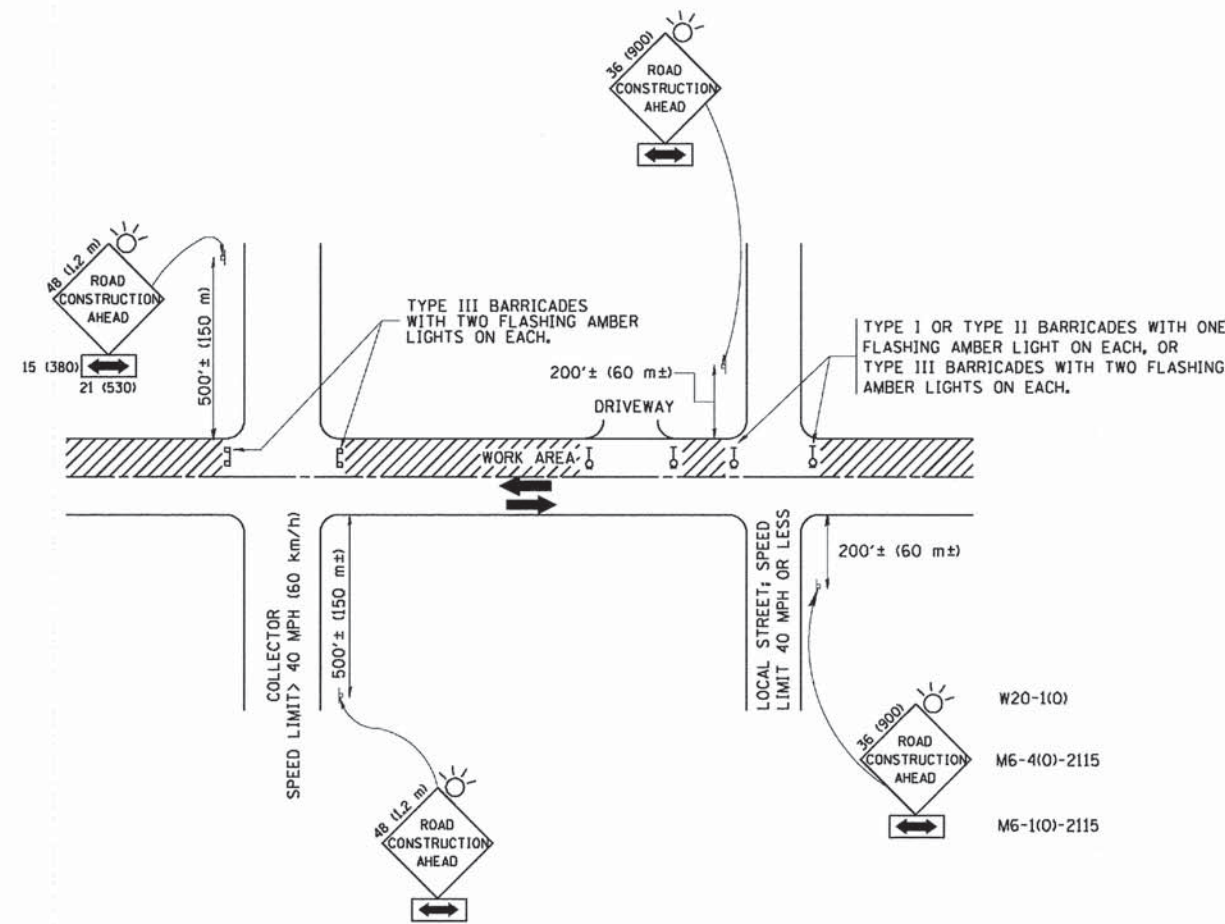
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		DATE - 06-13-90	REVISED - R. BORO 01-01-07

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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-00012-00-BT		McHENRY	86	67
BD400-05 BD32		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 70150, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

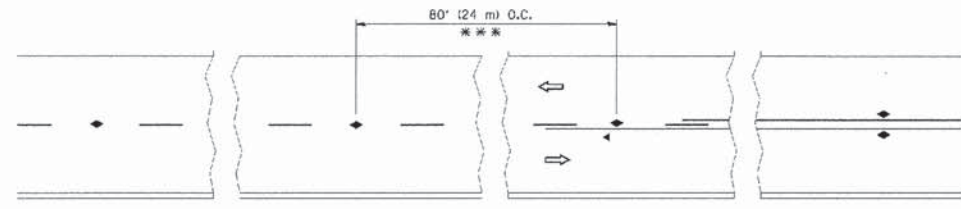
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 10/20/2014
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FILE NAME =	USER NAME = goglienob	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
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	PLOT SCALE = 80.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

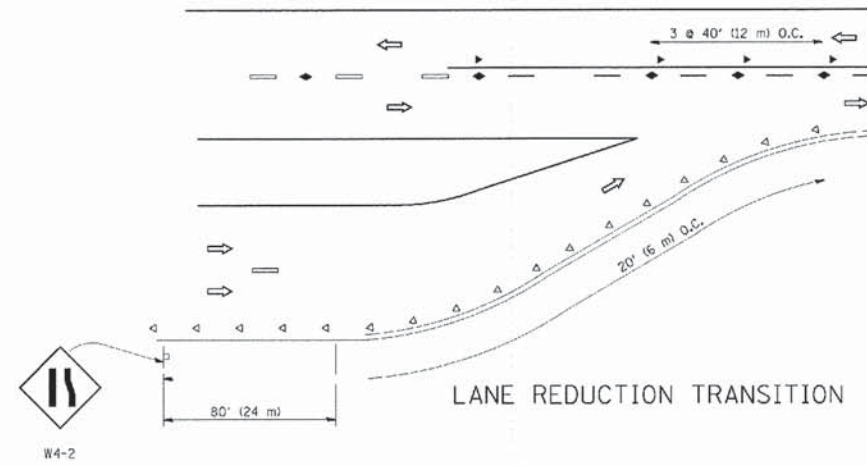
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 0118	13-00012-00-BT	McHENRY	86	68
TC-10			CONTRACT NO.	61A78
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				

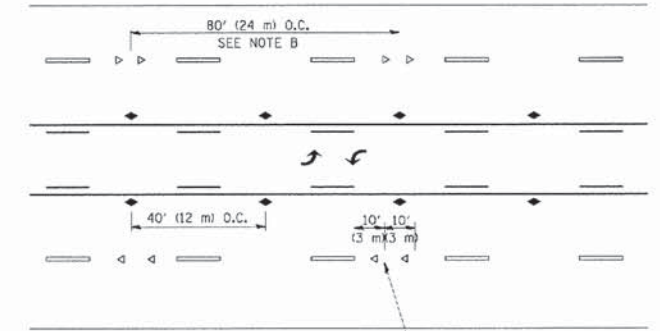


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

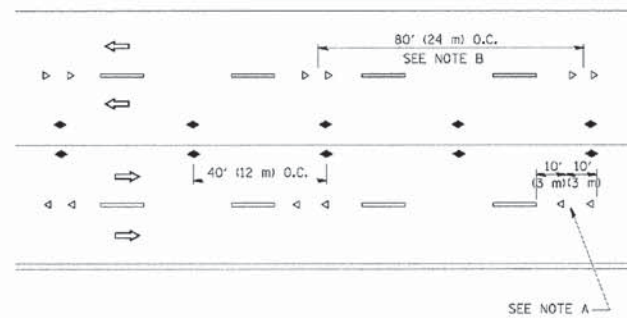
TWO-LANE/TWO-WAY



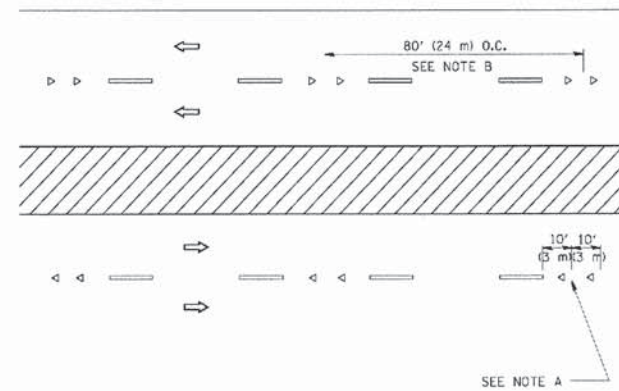
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

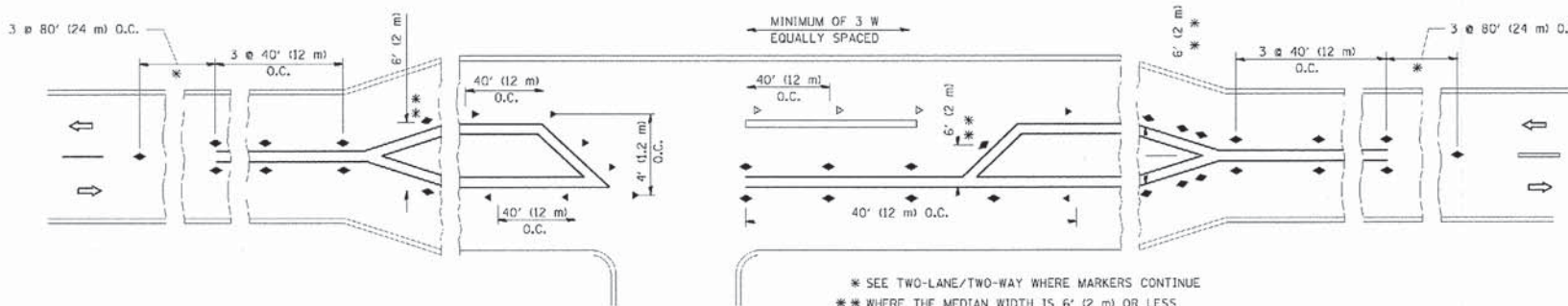
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

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

DESIGN NOTES

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



LEFT TURN

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

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

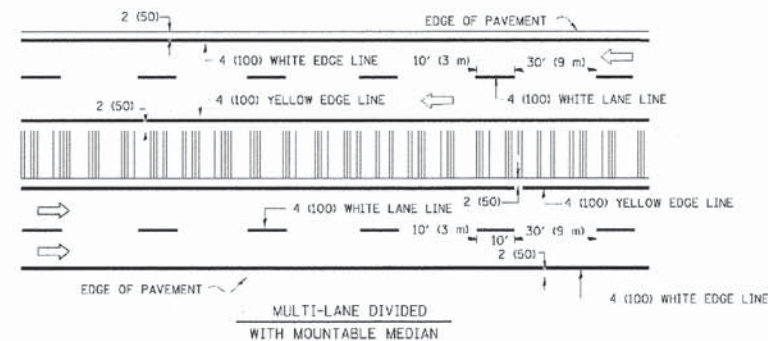
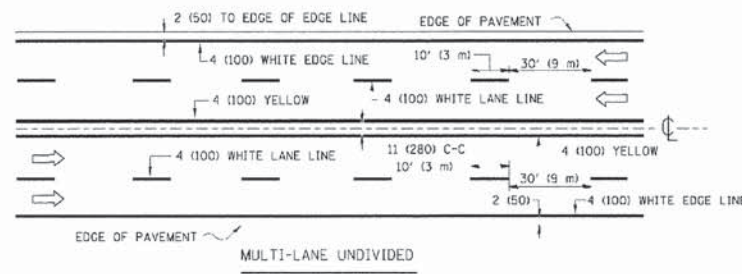
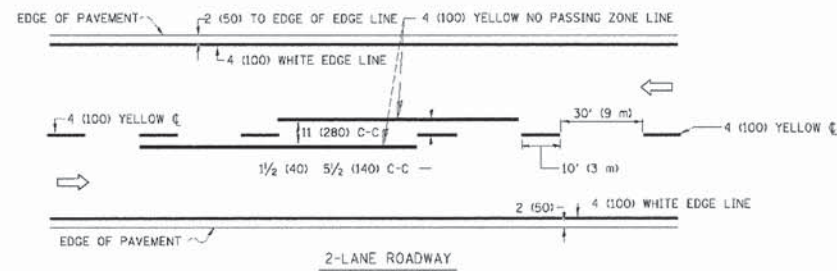
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DESIGNED	T. RAMMACHER 09-19-94
DRAWN	- T. RAMMACHER 03-12-99
CHECKED	T. RAMMACHER 01-06-00
DATE	9/3/2005
REVISOR	C. JUCIUS 09-09-09

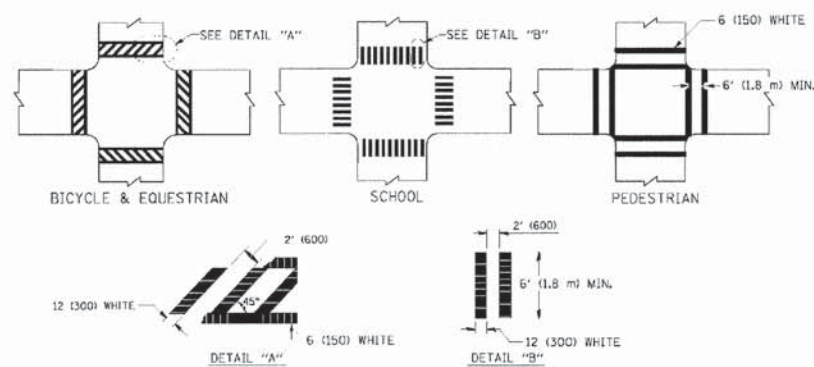
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS	
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

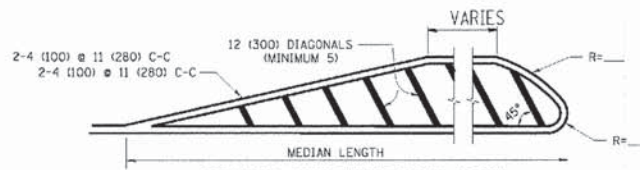
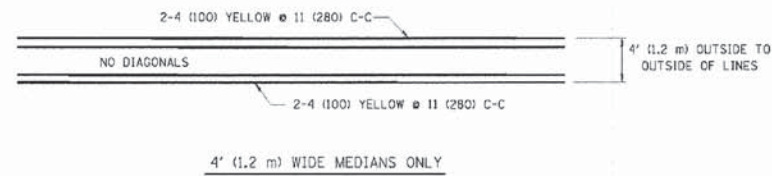
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3870 0118	13-00012-00-BT	McHENRY	86	69
TC-11		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217) C-91-393-13				



TYPICAL LANE AND EDGE LINE MARKING



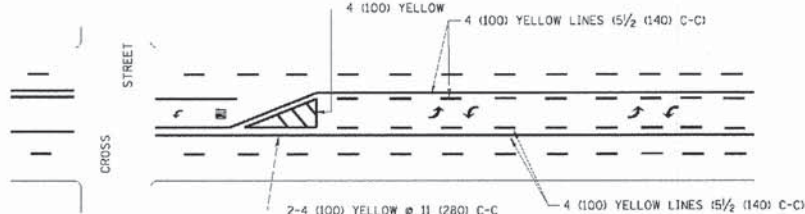
TYPICAL CROSSWALK MARKING



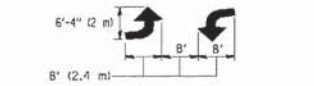
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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))

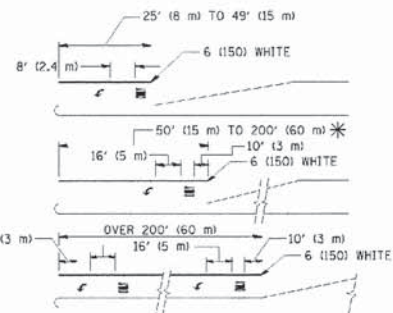
MEDIANS OVER 4' (1.2 m) WIDE



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.



TYPICAL PAINTED MEDIAN MARKING

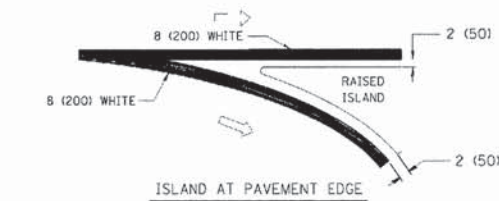
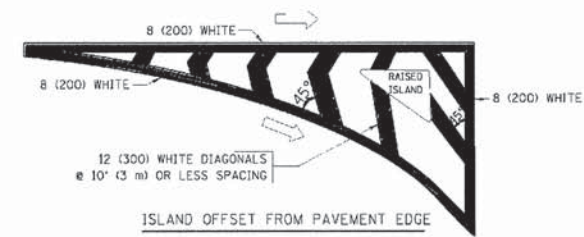


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* 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



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2' (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
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 1/2' (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	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))

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

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

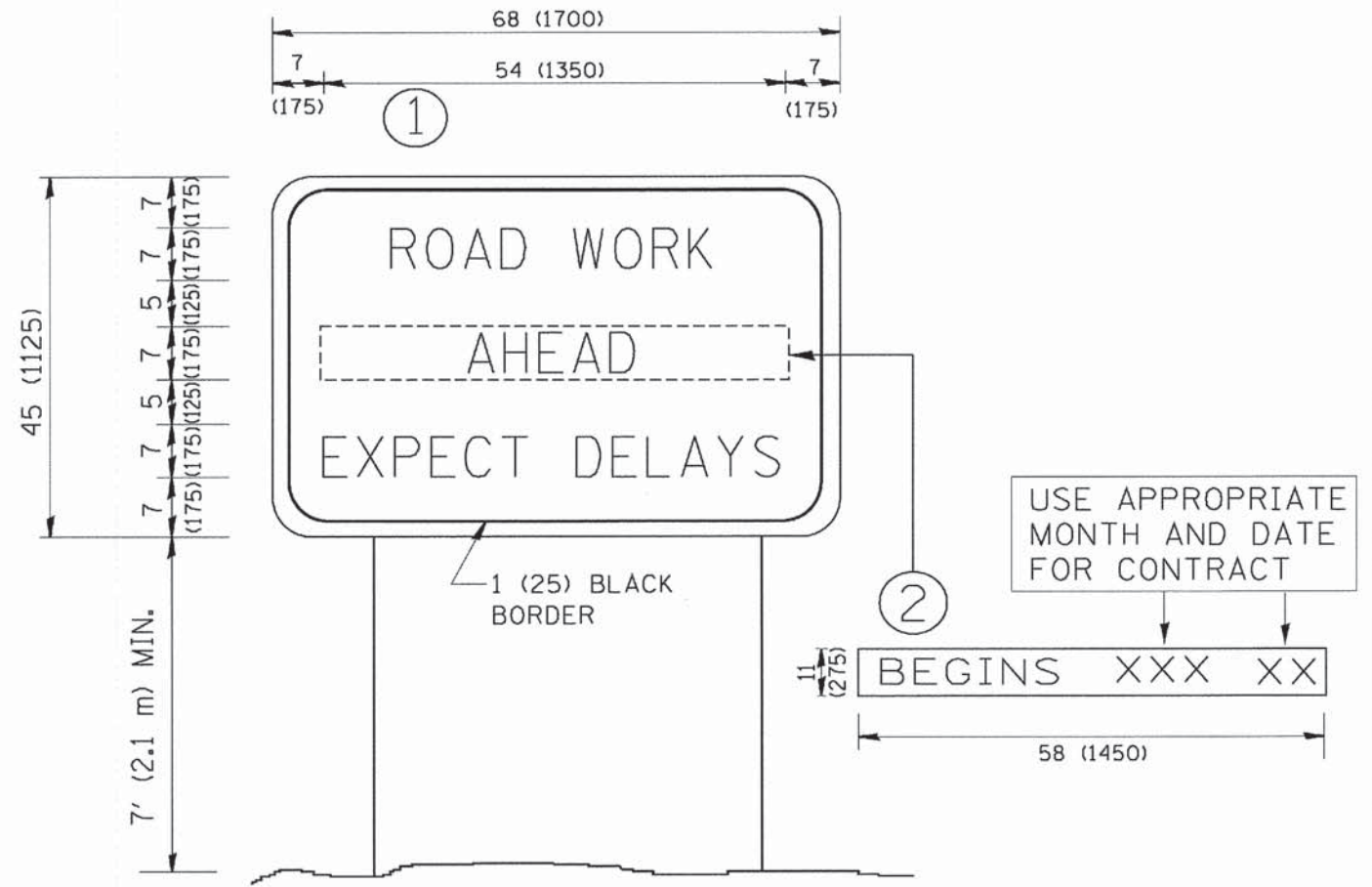
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 1506000
 10/22/2014

DESIGNED	EVERS	REVISED	T. RAMMACHER 10-27-94
DRAWN		REVISED	-C. JUCIUS 09-09-09
CHECKED		REVISED	
DATE	03-19-90	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE				F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS				3870	13-00012-00-BT	McHENRY	86	70
SCALE: NONE				TC-13		CONTRACT NO. 61A78		
SHEET NO. 1 OF 1 SHEETS				FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT M-4003217		
STA. TO STA.				C-91-393-13				

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 560608
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 USER NAME = gngliarobt
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 REVISED - R. MIRS 09-15-97
 REVISED - R. MIRS 12-11-97
 REVISED - T. RAMMACHER 02-02-99
 REVISED - C. JUCCIUS 01-31-07

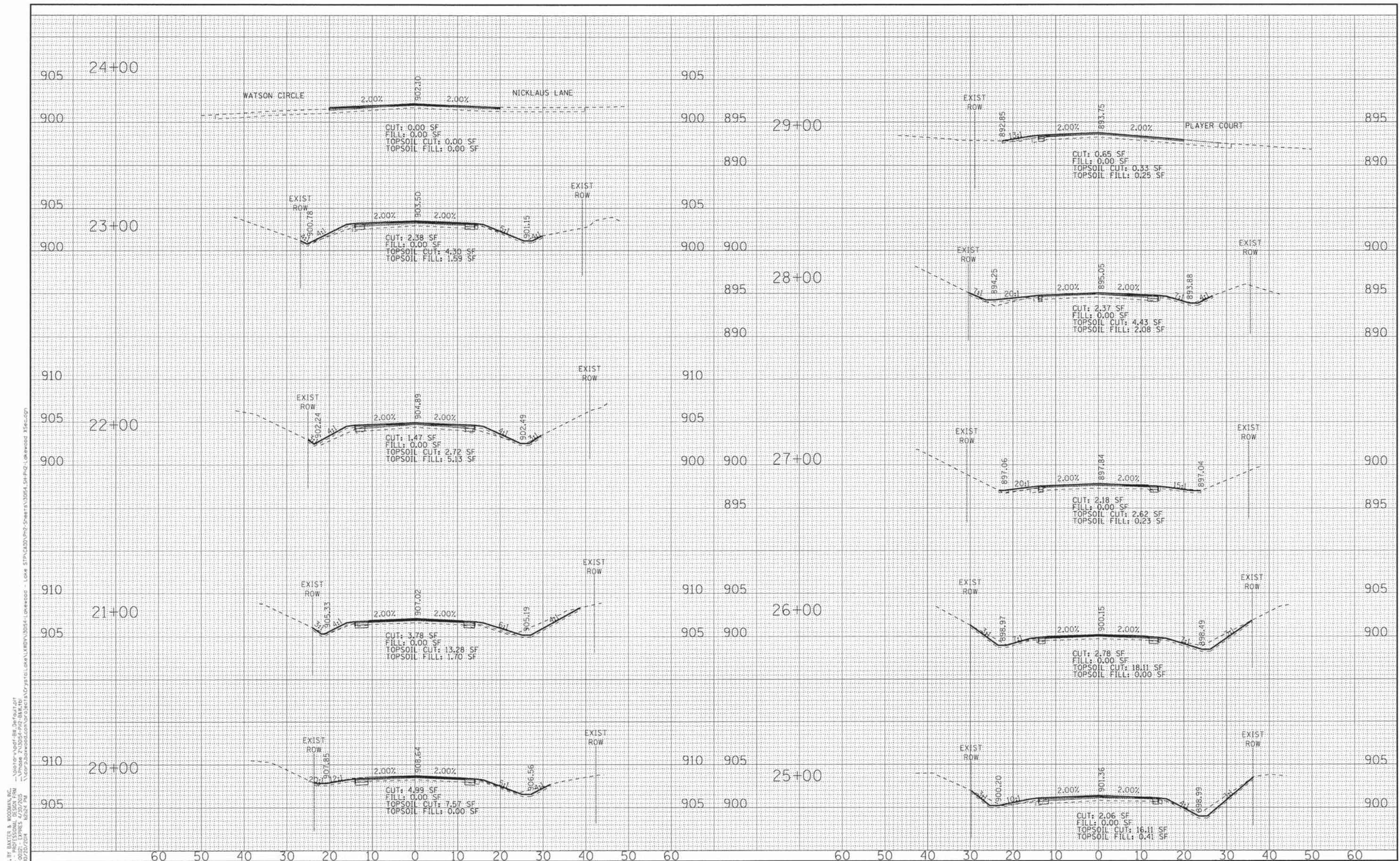


NOTES:

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

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

FILE NAME = W:\disto\22x34\to22.dgn	USER NAME = gngliarobt	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	R. MIRS 09-15-97 R. MIRS 12-11-97 T. RAMMACHER 02-02-99 C. JUCCIUS 01-31-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A.U. RTE. 3870 0118	SECTION 13-00012-00-BT	COUNTY MCHENRY	TOTAL SHEETS 86	SHEET NO. 71
PLOT SCALE = 50:1	PLOT DATE = 1/4/2008					SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	TC-22 CONTRACT NO. 61A78 <small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217) C-91-393-13</small>	



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CHECKED - DSH	REVISED -
DATE - 8-20-14	REVISED -

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DEPARTMENT OF TRANSPORTATION**

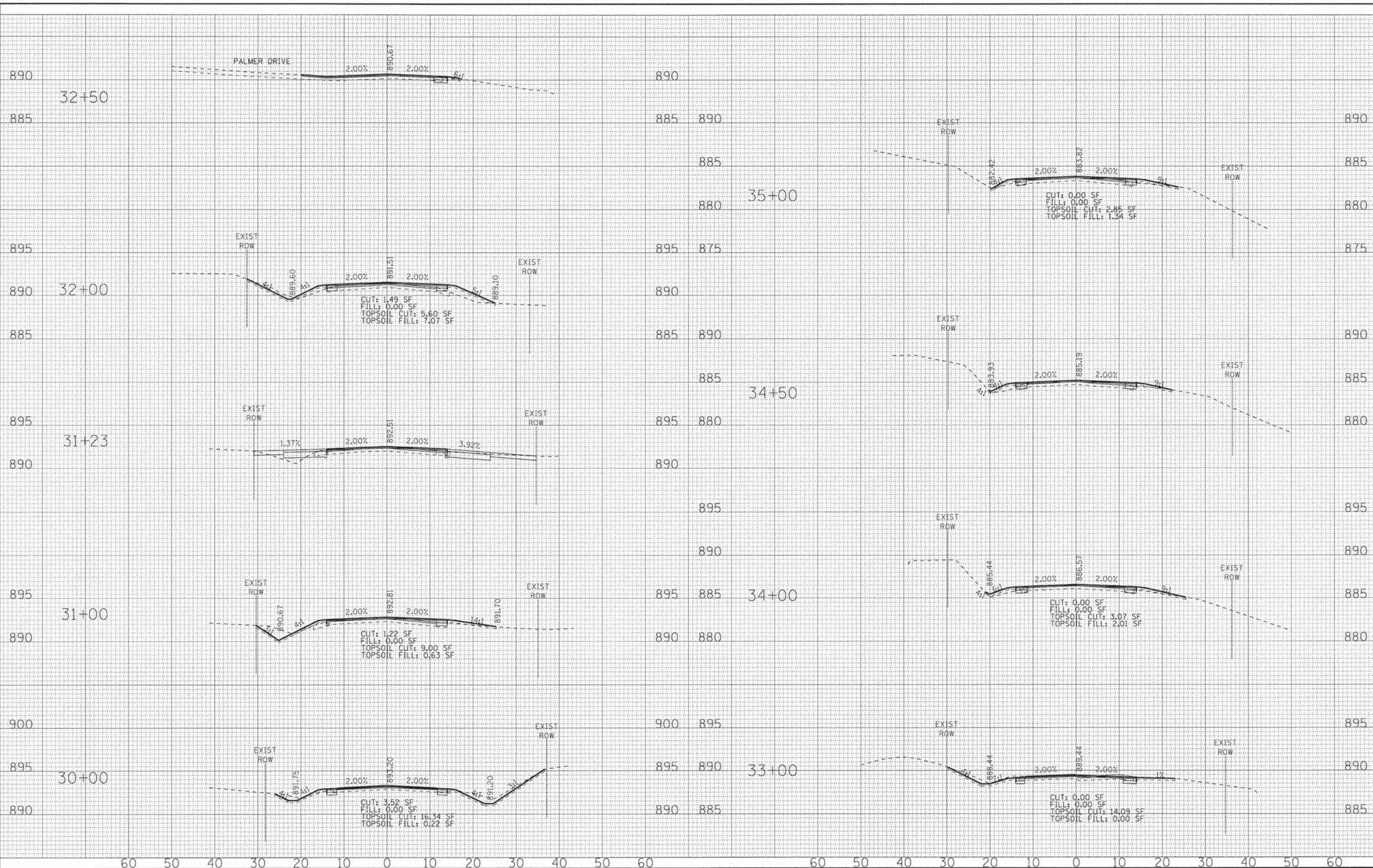
**CROSS SECTIONS
LAKEWOOD ROAD**

SCALE: H: 1"=10' V: 1"=5'

STA. 20+00 TO STA. 29+00

F.A.U. R.T.E. 3870 0118	SECTION 13-00012-00-BT	COUNTY #CO	TOTAL SHEETS 86	SHEET NO. 73
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				

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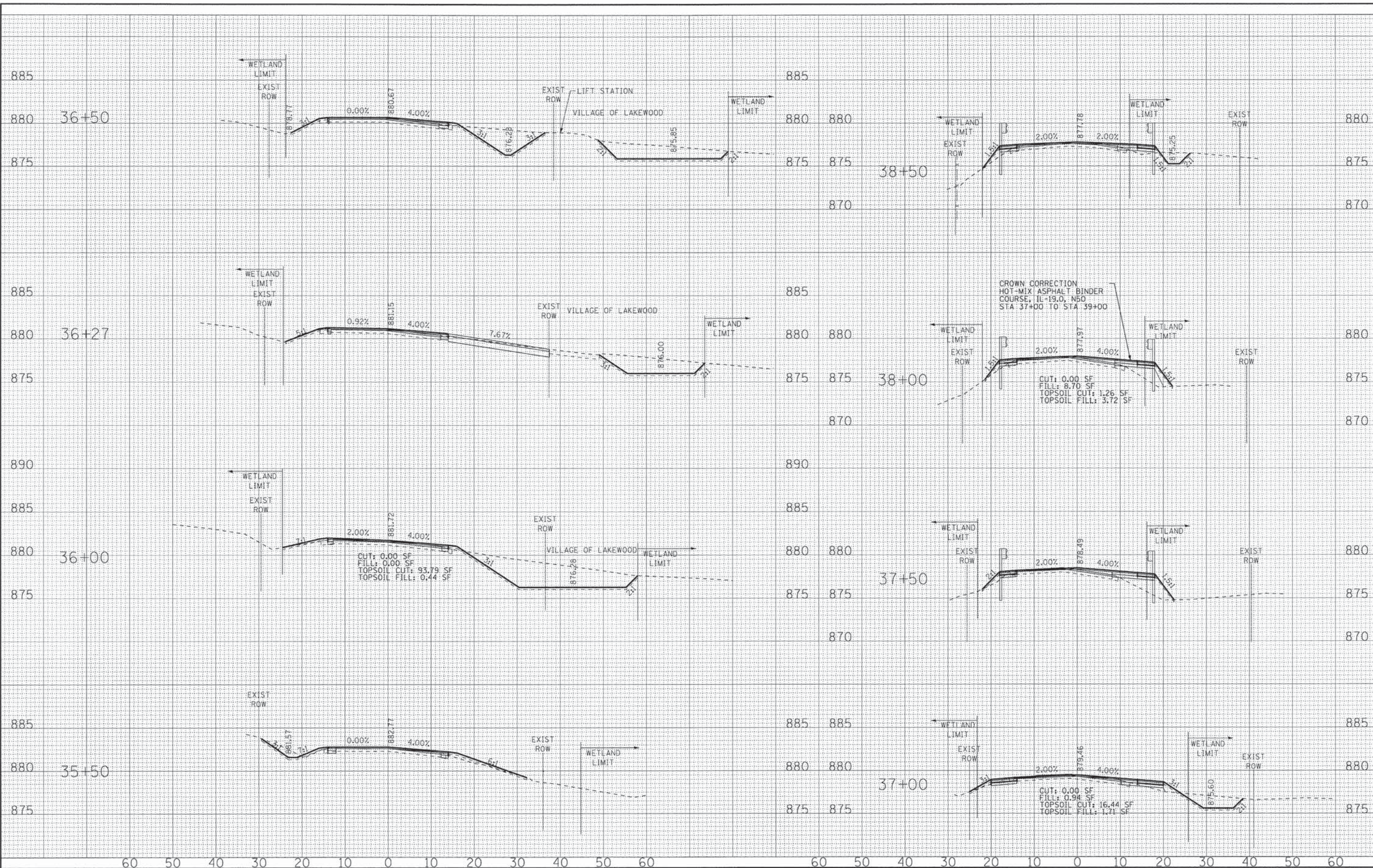
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CHECKED - DSH	REVISED -
DATE - 8-20-14	REVISED -

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CROSS SECTIONS
LAKEWOOD ROAD
 SCALE: H: 1"=10' V: 1"=5'
 STA. 30+00 TO STA. 35+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 0118	13-00012-00-BT	McHENRY	86	74
C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		M-4003(217)	

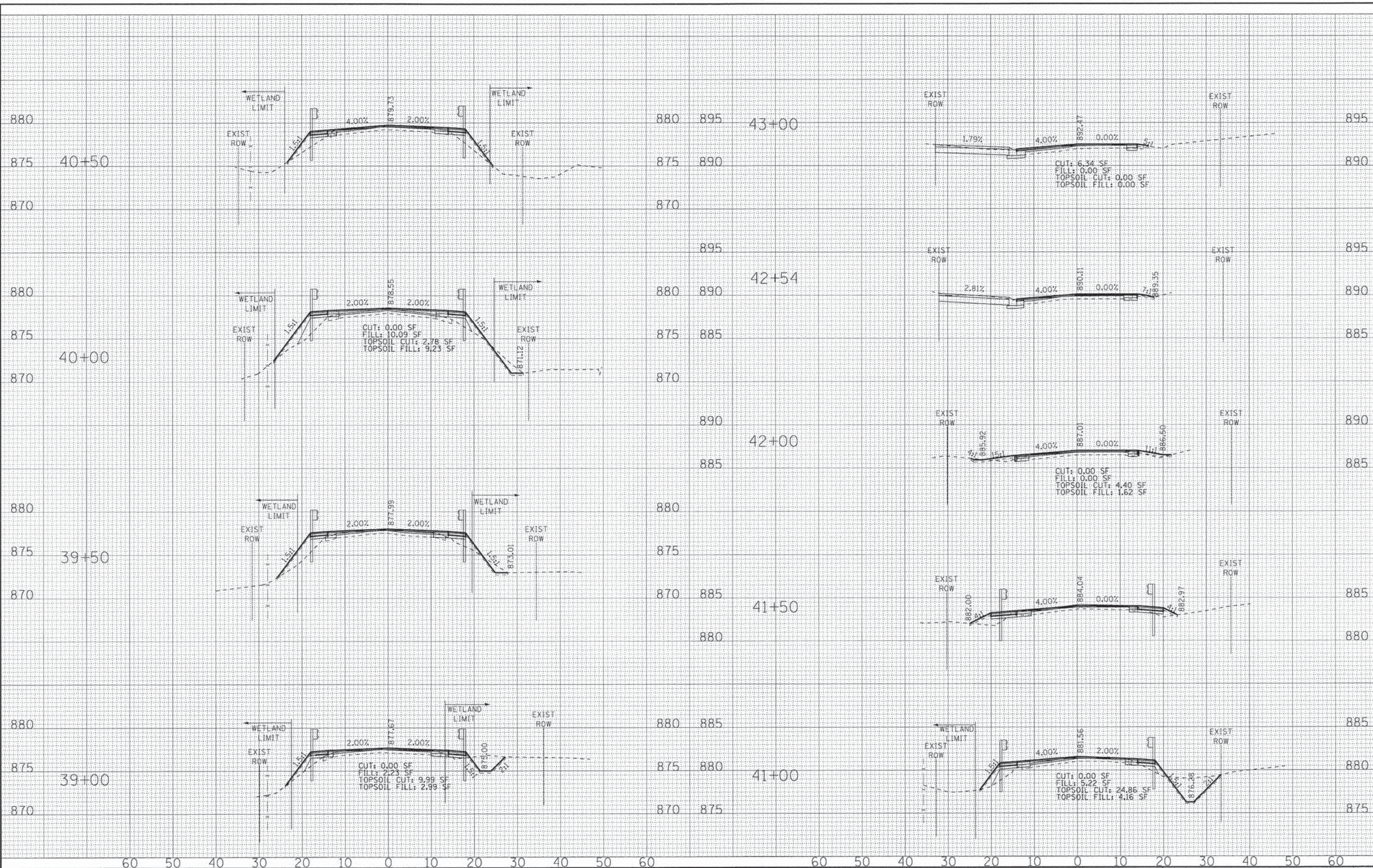
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	CHECKED - DSH	REVISED -			SCALE: H: 1"=10' V: 1"=5'		STA. 35+50 TO STA. 38+50			
	DATE - 8-20-14	REVISED -								

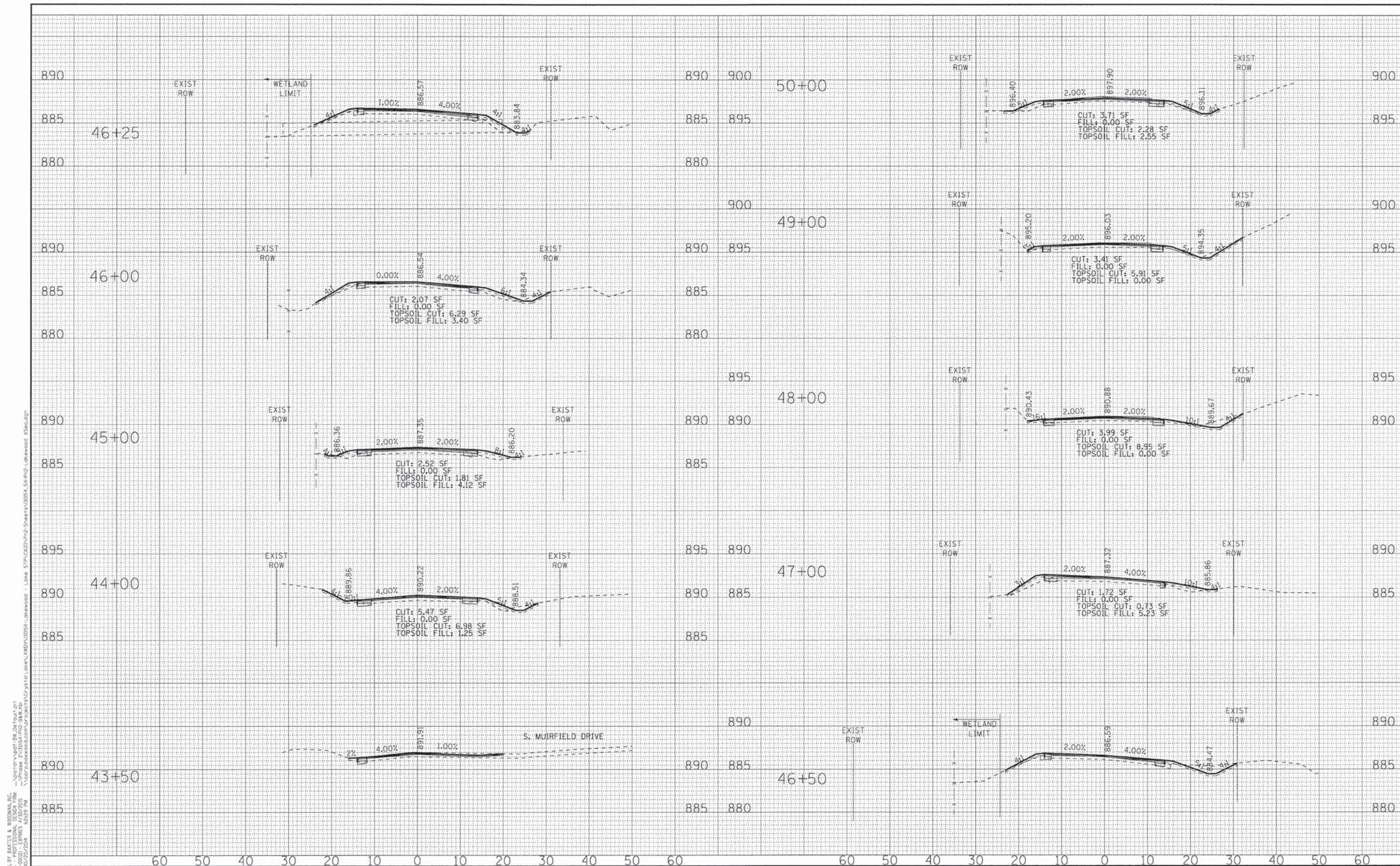
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SCALE: H: 1"=10' V: 1"=5' STA. 39+00 TO STA. 43+00



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 LICENSE NO. 061-070-0000
 PROJECT NO. 13-00012-00-BT
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DATE - 8-20-14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

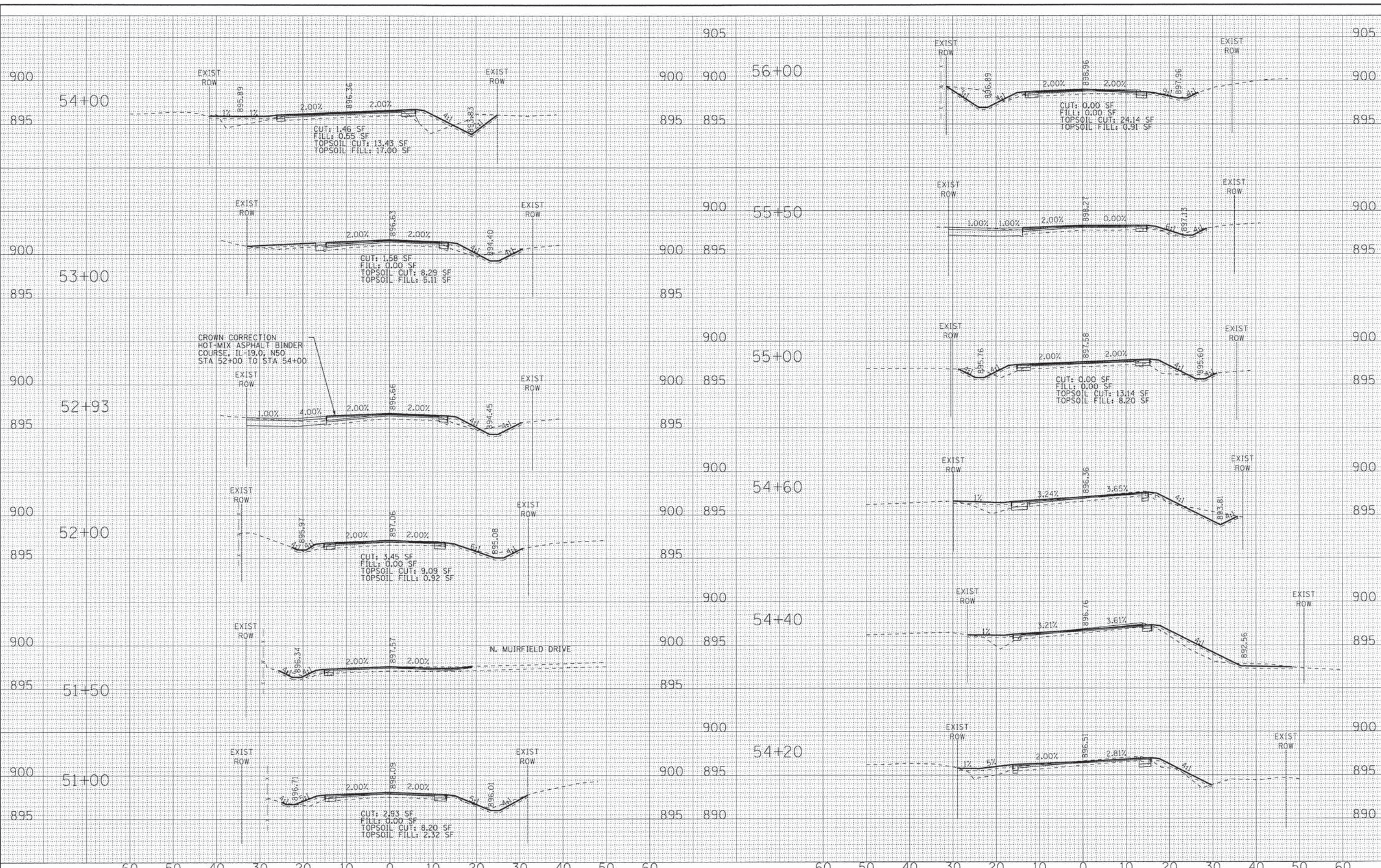
**CROSS SECTIONS
LAKEWOOD ROAD**

SCALE: H: 1"=10' V: 1"=5'

STA. 43+50 TO STA. 50+00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3970 0118	13-00012-00-BT	McHENRY	86	77
C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			M-4003(217)	

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 LICENSE NO. 058-041598-0003
 PROJECT: 13-00012-00-BT, ILLINOIS DEPARTMENT OF TRANSPORTATION, LAKWOOD ROAD, STA 51+00 TO STA 56+00, McHENRY COUNTY, ILLINOIS



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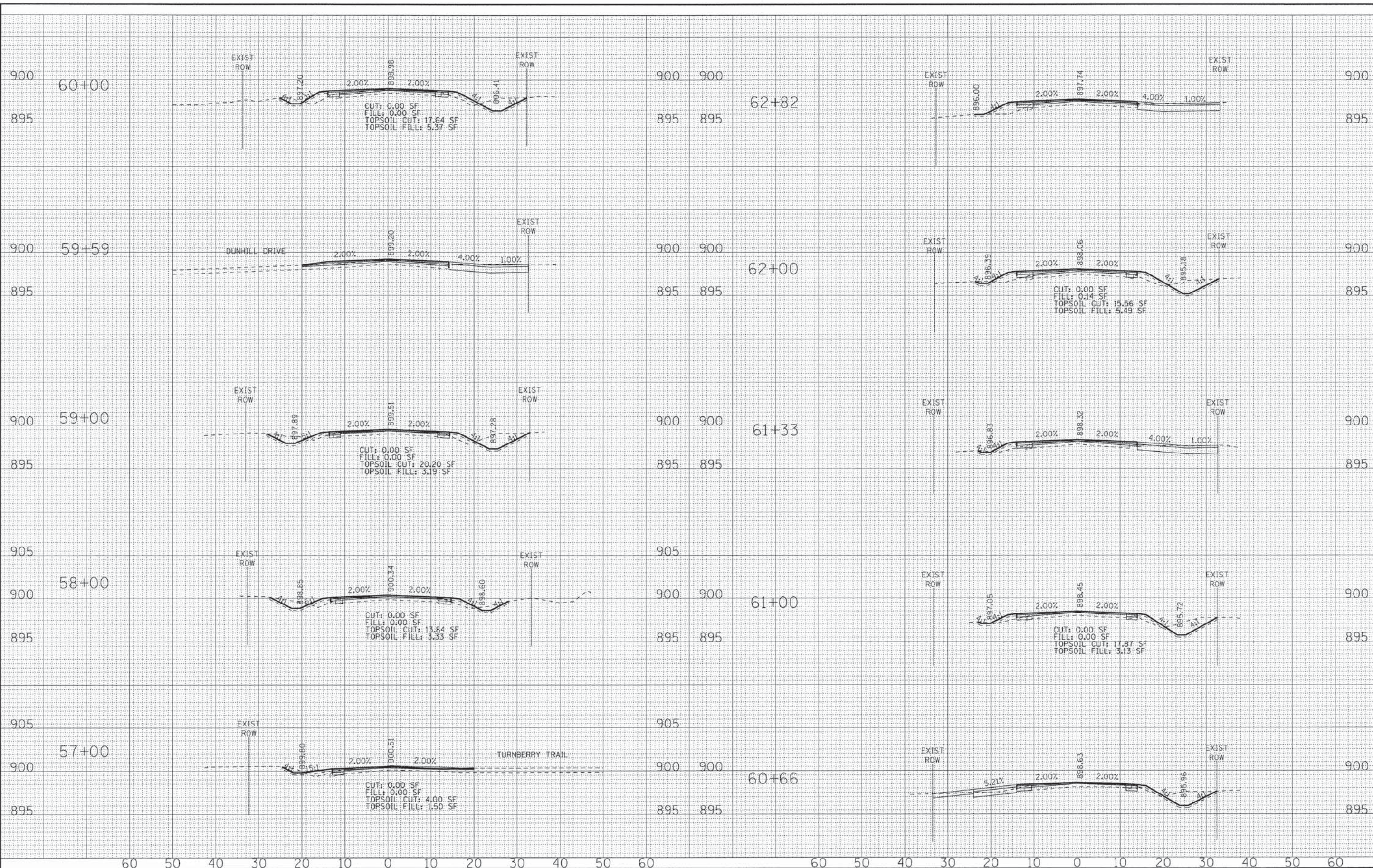
**CROSS SECTIONS
LAKWOOD ROAD**

SCALE: H: 1"=10' V: 1"=5'

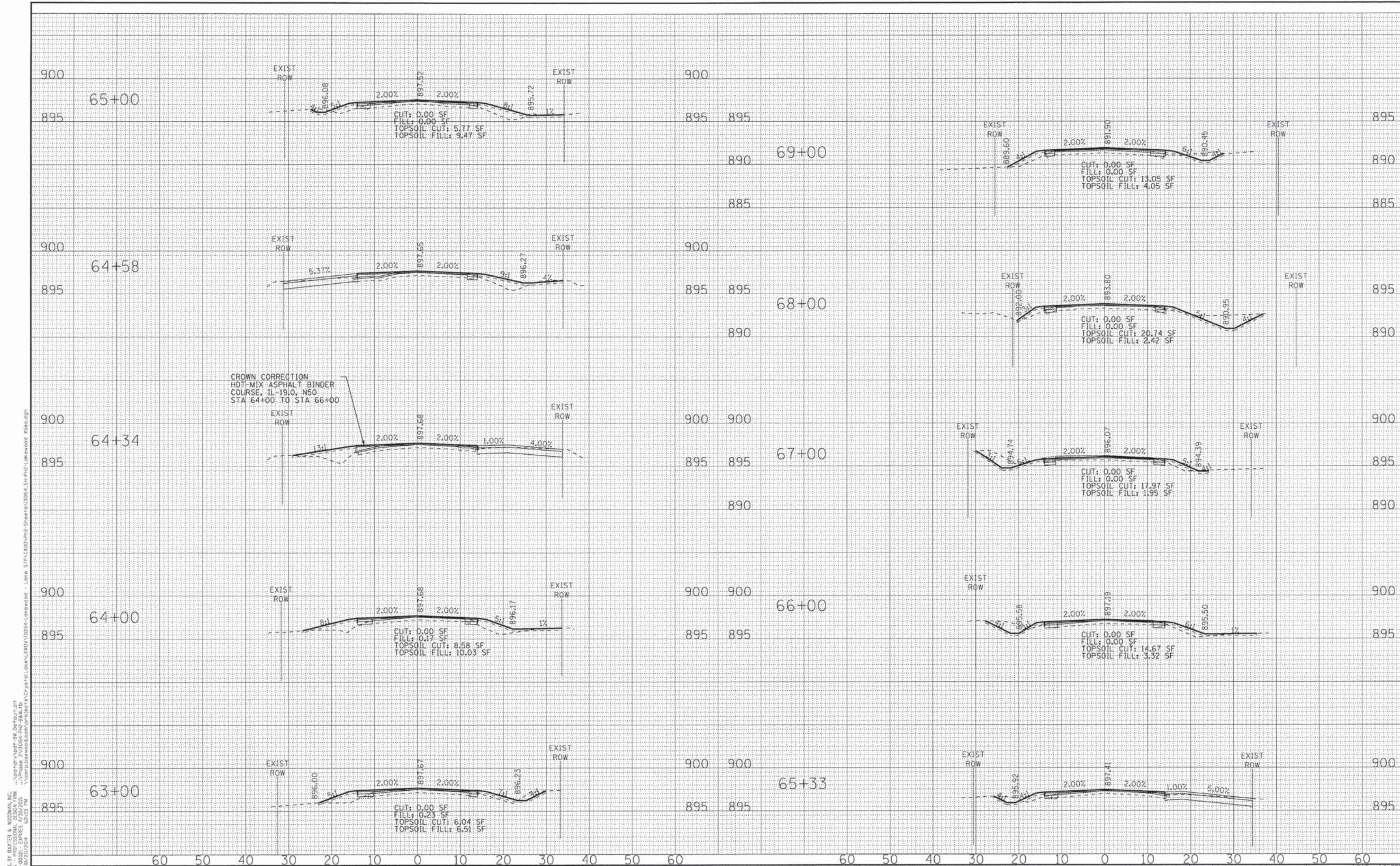
STA. 51+00 TO STA. 56+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 0118	13-00012-00-BT	MCHEMRY	86	78
C-91-393-13	CONTRACT NO. 61A78			
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	DATE - 8-20-14	REVISED -					C-91-393-13				
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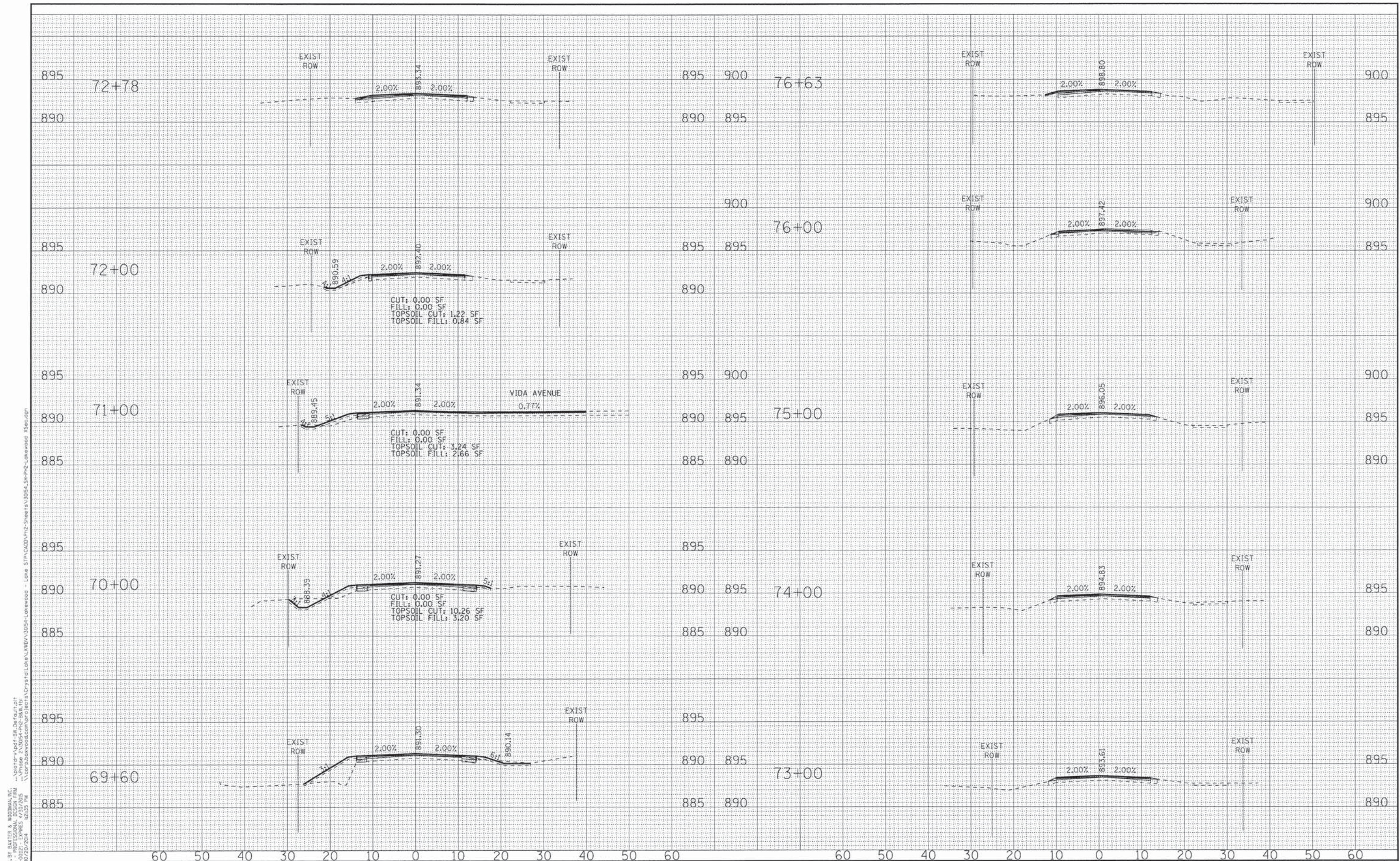
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DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS LAKEWOOD ROAD		F.A.U. RTE. 3870 0118	SECTION 13-00012-00-BT	COUNTY McHENRY	TOTAL SHEETS 86	SHEET NO. 80
SCALE: H: 1"=10' V: 1"=5'		STA. 63+00 TO STA. 69+00		CONTRACT NO. 61A78		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)



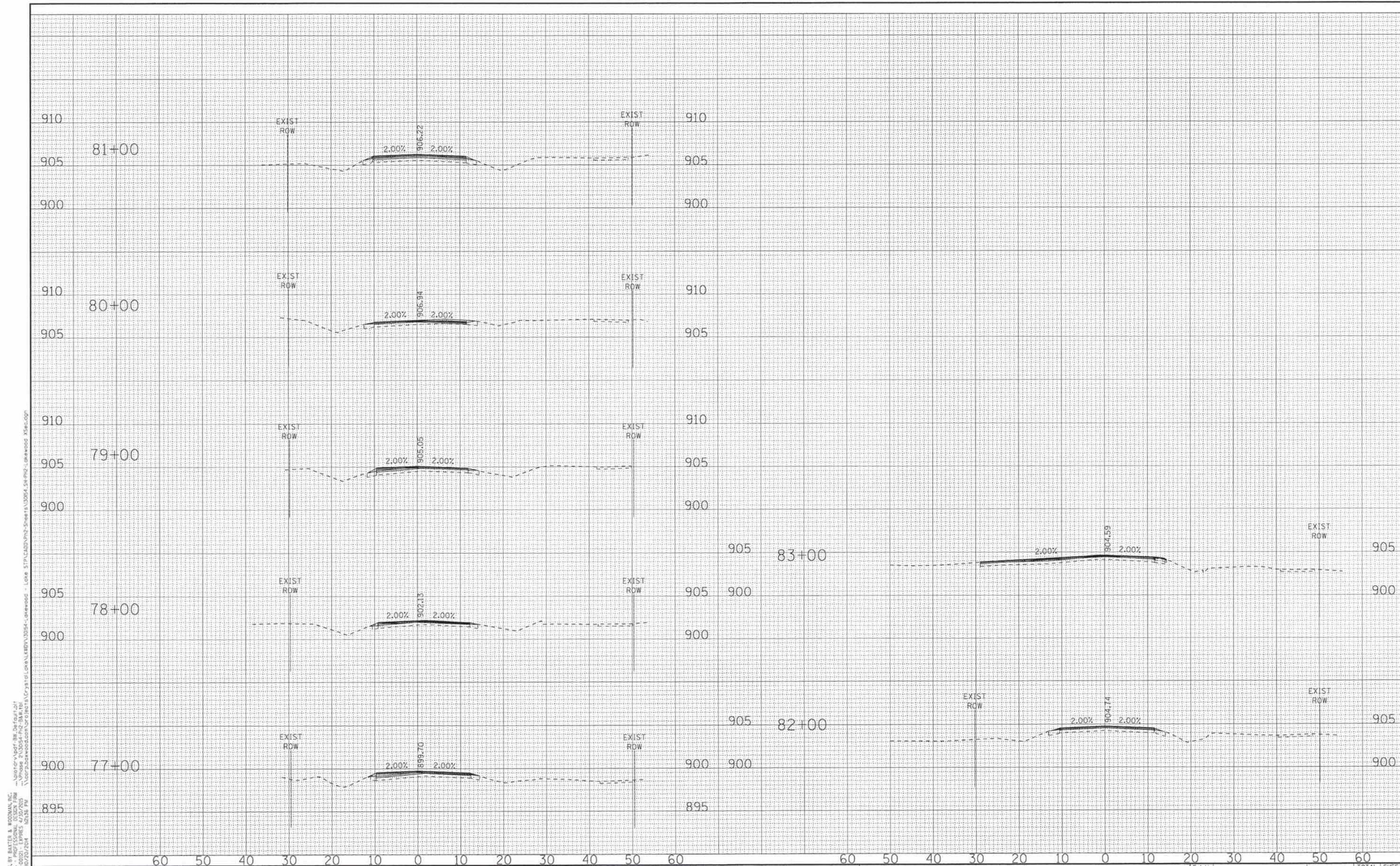
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CROSS SECTIONS LAKEWOOD ROAD		F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		3870 0118	13-00012-00-BT	McHENRY	86	81
SCALE: H: 1"=10' V: 1"=5'		STA. 69+60 TO STA. 76+63		CONTRACT NO. 61A78		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)



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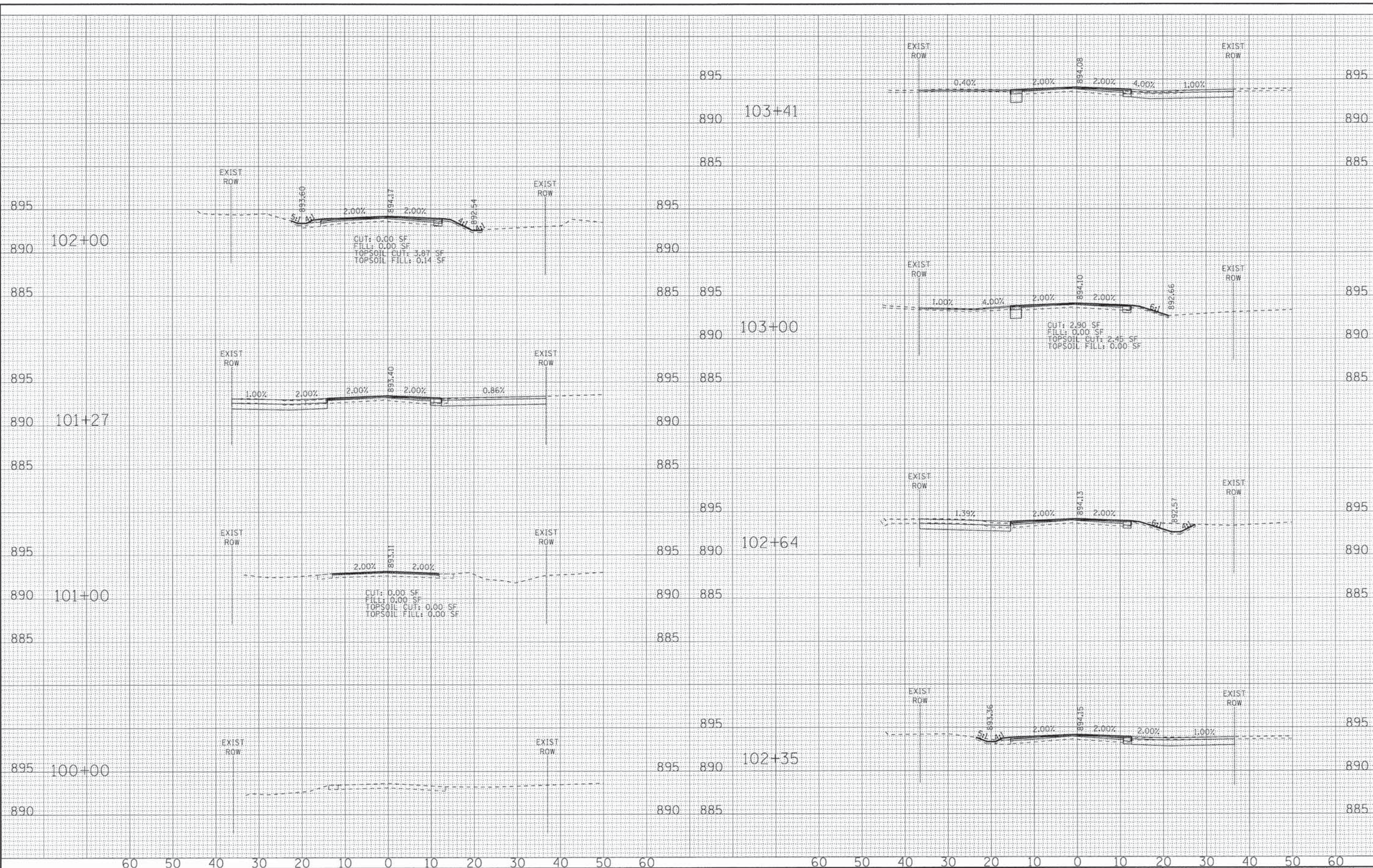
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CROSS SECTIONS
LAKEWOOD ROAD

STA. 77+00 TO STA. 83+00

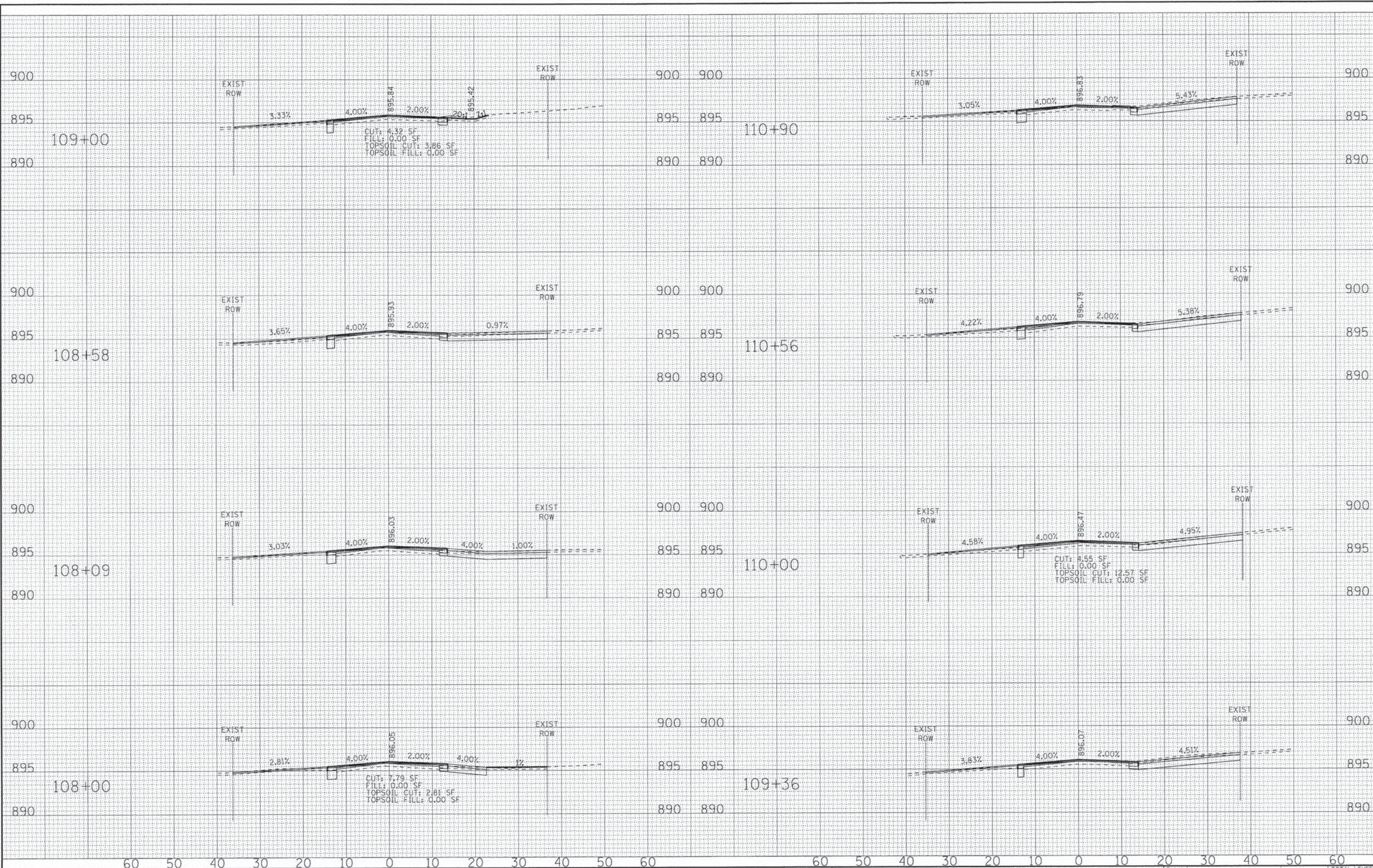
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 0118	13-00012-00-BT	McHENRY	86	82
C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)				

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	F.A.U. RTE.	SECTION			COUNTY	TOTAL SHEETS		SHEET NO.																			
	3870 0118	13-00012-00-BT			McHENRY	86		83																			
	C-91-393-13				CONTRACT NO. 61A78																						
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(217)																											
DRAWN - LKB	REVISED -	SCALE: H: 1"=10' V: 1"=5'																									
CHECKED - DSH	REVISED -	STA. 100+00 TO STA. 103+41																									
DATE - 8-20-14	REVISED -																										

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 DRAWING: 13-00012-00-BT
 DATE: 8-20-14



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	DATE - 8-20-14	REVISED -

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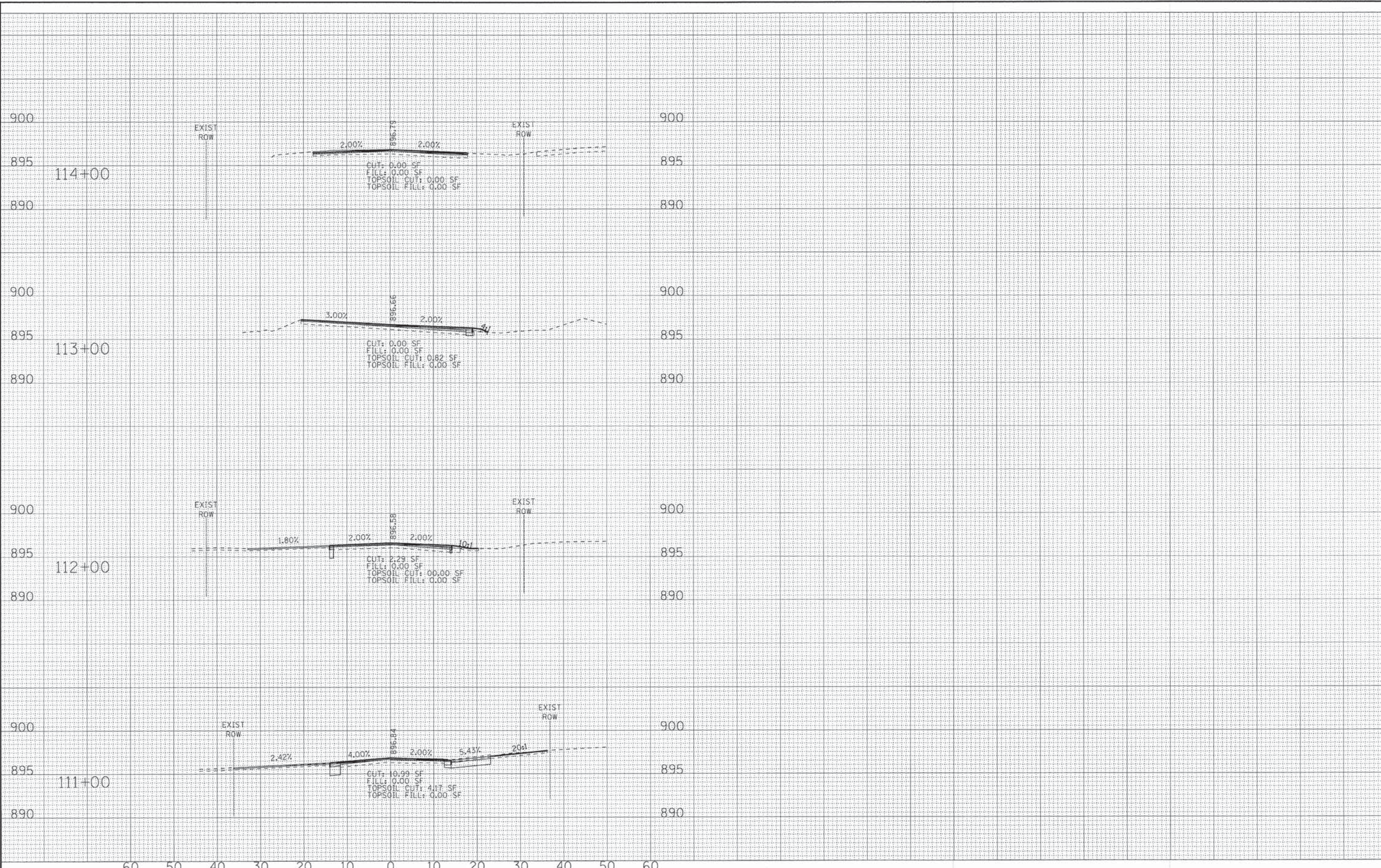
CROSS SECTIONS
LAKE AVENUE

SCALE: H: 1"=10' V: 1"=5'

STA. 108+00 TO STA. 110+90

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 0118	13-00012-00-BT	McHENRY	86	85
C-91-393-13		CONTRACT NO. 61A78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031217				

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 1563001 - 10/20/2014



DESIGNED - JDM	REVISED - PER IDOT 10-2-14
DRAWN - UKB	REVISED -
CHECKED - DSH	REVISED -
DATE - 8-20-14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: H: 1"=10' V: 1"=5'

CROSS SECTIONS	
LAKE AVENUE	
STA. 111+00	TO STA. 114+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3870 018	13-00012-00-BT	McHENRY	86	86
C-91-393-13			CONTRACT NO. 61A78	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			M-4003(217)	