

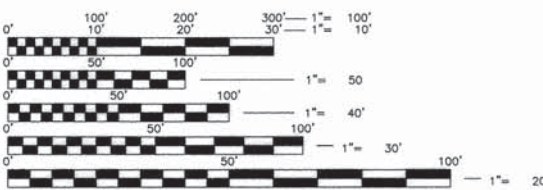
**STATE OF ILLINOIS
DEPARTMENT OF TRANSFORMATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
FAU 0012 (WEST WEGNER ROAD)
LILY LAKE ROAD TO SOUTH DARRELL ROAD
FAU 3702 (DARRELL ROAD)
WEGNER ROAD TO BENDING CREEK ROAD
BICYCLE/PEDESTRIAN PATH
PROJECT NO.: TE-00D1(997)
SECTION NO.: 14-00011-00-BT
VILLAGE OF LAKEMOOR
McHENRY/LAKE COUNTIES
JOB NO.: C-91-209-15**

RTE.	NAME	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		14-00011-00-BT	McHENRY	104	1
FAU 0012	WEGNER RD.	STA. 0+00 TO STA. 48+13.85			
LAKE COUNTY HIGHWAY 44	SOUTH DARRELL ROAD	STA. 230+59.60 TO STA. 246+40.96			
FAU 3702	NORTH DARRELL ROAD	STA. 246+40.96 TO STA. 289+66			
ILLINOIS ITP 131018					

FOR INDEX OF SHEETS, SEE SHEET NO.2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO.2

ROAD	POSTED SPEED LIMIT	CLASSIFICATION	2014 ADT
WEGNER ROAD	30	LOCAL	950
SOUTH LILY LAKE ROAD	30/40	COLLECTOR	2,000
DARRELL ROAD (SOUTH OF IL 120)	45	ARTERIAL	6,400
IL RTE 120	40/45	ARTERIAL	19,600
DARRELL ROAD (NORTH OF IL 120)	25	COLLECTOR	5,000



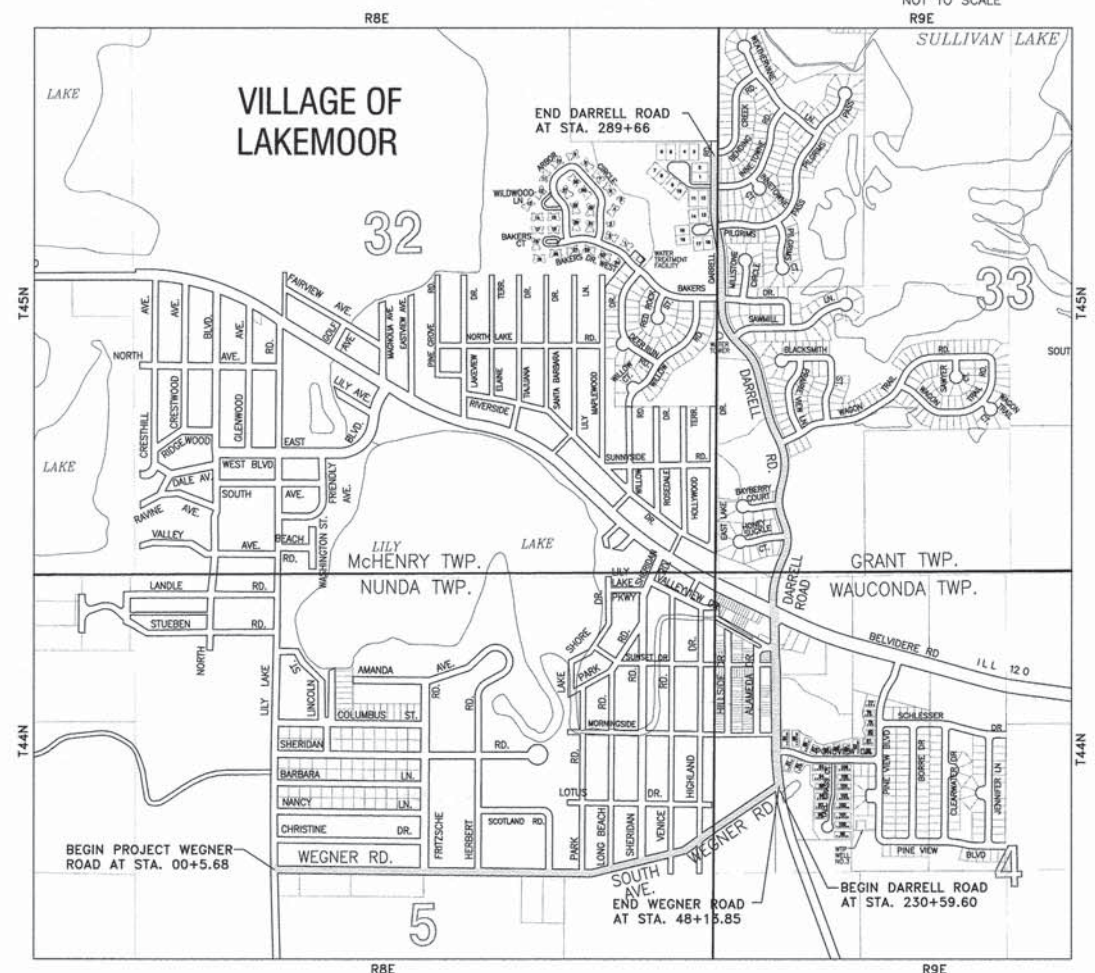
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS THE ABOVE SCALE MAYBE USED.

J.U.L.L.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-890-0123

IG CONSULTING, INC.
INFRACON GECON
CONSULTING - CIVIL ENGINEERS & LAND SURVEYORS
300 MARGARET DRIVE WHEELING, ILLINOIS 60090 PH. (847) 215-1133 FAX (847) 215-1177

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-001330

PROJECT MANAGER: JERRY KOTOWSKI
PROJECT ENGINEER: CARL KUPFER



NUNDA/WAUCONDA/McHENRY/GRANT TOWNSHIPS
GROSS LENGTH OF IMPROVEMENT = 10714.57 FEET OR 2.03 MILES
NET LENGTH OF IMPROVEMENT = 10714.57 FEET OR 2.03 MILES

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

APPROVED: *[Signature]* JANUARY 29, 2016
LOCAL AGENCY REPRESENTATIVE

PASSED: *[Signature]* FEB 8, 2016
LOCAL ROADS ENGINEER

RELEASING FOR BID
BASED ON LIMITED
REVIEW: *[Signature]* February 9, 2016
DEPUTY DIRECTOR OF
HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

FEDERAL AID PROGRAM ENGINEER: FAWAD AGUEEL, P.E., PTOE 847-705-4021 SCHAUMBURG, IL

CONTRACT NO. 61C28

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 AND NORTHERN MORAINNE WASTEWATER RECLAMATION DISTRICT AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE OF 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 RAMP SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED GRANITE 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 AT THE TIME OF CONSTRUCTION AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. 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.
- 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. TRENCHES SHALL NOT BE LEFT OPEN OVER-NIGHT.
- ALL POSTS, MAILBOXES, 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.
- 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.
- PORTABLE TOILETS SHALL BE PLACED ON THE JOB SITE(S) AND RELOCATED WHEN NECESSARY FOR ACCESSIBILITY TO WORKERS. IF WORK IS OCCURRING AT SEVERAL LOCATIONS, ONE PORTABLE TOILET 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. THIS WORK SHALL BE INCLUDED IN THE ITEM "MIXTURE FOR CRACKS, JOINTS AND FLANGWAYS."
- DURING CONSTRUCTION, THE CONTRACTOR WILL BE PERMITTED TO LIMIT PARKING IN SPACES APPROVED BY THE VILLAGE. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PLACE SIGNS 48 HOURS IN ADVANCE TO ALERT RESIDENTS OF PENDING CONSTRUCTION WORK. 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.
- 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. ALL MAILBOXES WITHIN THE PROJECT LIMITS SHALL BE WITHIN COMPLIANCE WITH LOCAL US POST OFFICE STANDARDS BEFORE COMPLETION OF THE PROJECT.
- 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.
- SAW CUTS MADE IN THE EXISTING PAVEMENT TO REMAIN FOR CONSTRUCTING UTILITIES SHALL BE INCLUDED IN CLASS D PATCHES.
- 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.
- 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.
- INCREASE APPLICATION RATE OF MULCH METHOD 3A TO 3500 LB/ACRE ON SLOPES EXCEEDING 2H:1V OR AS RECOMMENDED BY THE MANUFACTURER.

LAKE COUNTY GENERAL NOTES

- THE CONSTRUCTION, INCLUDING MATERIALS USED, OF THIS UTILITY AND FACILITY SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE MOST RECENT EDITIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, AND ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, INCLUDING ALL AMENDMENTS AND SUCCESSOR DOCUMENTS TO THE AFOREMENTIONED DOCUMENTS AS PUBLISHED OR ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE SHOWN IN THESE ENGINEERING PLANS.
- THE CONSTRUCTION OF THIS UTILITY OR FACILITY SHALL ALSO BE IN ACCORDANCE WITH THE LAKE COUNTY HIGHWAY UTILITY AND FACILITY PLACEMENT ORDINANCE, LATEST EDITION, AS AMENDED, OR ANY SUCCESSOR DOCUMENT OR DOCUMENTS THERETO.
- THE LAKE COUNTY DIVISION OF TRANSPORTATION SHALL NOT BE HELD LIABLE FOR ANY ERRORS OR OMISSIONS IN THESE ENGINEERING PLANS OR FOR ANY ADDITIONAL WORK, WHICH MAY BE NEEDED DUE TO ERRORS OR OMISSIONS IN THESE ENGINEERING PLANS.
- THE PERMITTEE SHALL BE RESPONSIBLE FOR ANY ADDITIONAL WORK, AND ALL COSTS THEREOF, REQUIRED BECAUSE OF ERRORS OR OMISSIONS IN THESE ENGINEERING PLANS AND FOR THE CORRECTION OF ANY CONSTRUCTION, MAINTENANCE, OR SAFETY PROBLEMS, WHICH BECOME APPARENT DURING CONSTRUCTION OR BY INSPECTIONS MADE BY THE PERSON IN CHARGE OF THE LAKE COUNTY DIVISION OF TRANSPORTATION.
- THE PERSON IN CHARGE SHALL NOTE ANY CHANGES FROM THESE ENGINEERING PLANS AND SHALL NOTIFY THE PERMIT DEPARTMENT OF THE LAKE COUNTY DIVISION OF TRANSPORTATION ABOUT ANY CHANGES THAT DEVIATE FROM THE INTENT OF THE ENGINEERING PLANS.

SPECIAL CONDITIONS FOR CONSTRUCTION WITHIN A COUNTY HIGHWAY RIGHT-OF-WAY

WORK NOTIFICATION
Prior to starting construction the Permit Section, (847) 377-7400, shall be called and given the construction start date.

SPECIFICATIONS

The construction and restoration methods and procedures, materials used and construction signing and traffic control shall, when applicable, conform or meet the standards and requirements set forth in the current "Manual on Uniform Traffic Control Devices for Street and Highways", "Standard Specifications for Road and Bridge Construction", "Standard Specification for Traffic Control Items" and the "Highway Standards" manual as published or adopted by the Illinois Department of Transportation.

FIELD CHANGES FOR WATERMAIN OR SEWER LOCATION

No changes to the depth or location of the watermain or sewer as shown on these plans due to unforeseen field conditions or conflicts can be made unless prior approval has been obtained from the Permit Section of the Lake County Division of Transportation.

ADDITIONS, EXTENSIONS OR DELETIONS FOR THE WATERMAIN OR SEWER

No additions, extensions or deletions can be made to the watermain or sewer as shown on these plans unless prior approval has been obtained from the Permit Section of the Lake County Division of Transportation.

APPROVAL OF MATERIALS

The Lake County Division of Transportation Permit Section, (847) 377-7400, shall be called for approval of any materials (i.e. trench backfill, sand, gravel or other granulated materials) that will be placed within the County Highway right-of-way that are not on the approved engineering plans.

HAZARDS TO THE PUBLIC

Measures shall be taken to prevent or protect the public from hazards caused by the construction operations.

PARKING OF VEHICLES, EQUIPMENT AND STORAGE OF MATERIALS

Construction worker's vehicles and construction equipment shall be parked in areas outside of the County Highway right-of-way or in areas where there will be no interference with the normal use of the highway or vehicle sight distance. Construction materials shall be located at least 12 feet from a through traffic lane or outside of the County Highway right-of-way.

MAINTAINING EXISTING TRAFFIC CONTROL DEVICES

Existing traffic control devices that are removed shall be re-erected as soon as possible. Damaged or lost traffic control signs shall be reported to the Sign Shop, (847) 377-7501, of the Lake County Division of Transportation for replacement. Regulatory and warning traffic signs shall be kept in view of the highway traffic.

EXISTING DRAINAGE AND ACCESS

Disturbed highway drainage facilities shall be re-established at the close of each work day. Occupants of adjacent properties having access to the County Highway shall be notified prior to being blocked and suitable arrangements made with the occupants. Adjacent property access shall be re-established as soon as possible.

HIGHWAY PAVEMENTS

Care shall be taken not to break, crack or damage the highway pavement with equipment operating on it. Also, any dirt or debris tracked onto the highway pavement shall be removed. Equipment with grozer pads, cleats or studs are not permitted to operate on the highway pavement.

EXCAVATIONS, TRENCHES AND BORE PITS

Excavated material shall, when practical, be piled on the near traffic side of the excavation, trench or bore pit. Open excavations, trenches or bore pits remaining after working hours shall not exceed 50 feet in length and shall be properly protected (fencing, covered, etc.) and marked (Type I or II barricades). If barricades are used in series, only steady burning lights shall be used. Bore pits shall be located no closer than 10 feet to the highway pavement, back of curb or gutter, or shoulder break line, whichever is further. If casing pipes are used, the voids in the casing pipe shall be filled and/or the ends sealed so there will be no siltation into the casing pipe.

BACKFILLING

Backfilling operations shall be simultaneous with the construction operations and shall be in accordance with the "Standard Specifications for Road and Bridge Construction". Any excavation, trench, bore pit or portion thereof within a 1:1 slope of the pavement edge or back of curb shall be backfilled with Trench Backfill (sand). In addition, Trench Backfill (sand) shall be used for all access crossings and pavement areas and shall extend two feet beyond the edge of the access or pavement area. Areas between the pavement edge and shoulder break line shall be backfilled with Aggregate Base Course (gravel). Backfill of shoulder areas shall not extend above the existing ground and any settlement shall be promptly filled.

MANHOLES, VALVES, VAULTS AND APPURTENANCES

The top of the frame and lid or cover of a manhole, valve, or vault shall be flush and contoured to the surrounding ground. If this is not possible due to an excessive slope, the surrounding ground shall be graded so the frame and lid or cover remain level with the ground. The top of the frame and lid or cover shall be located no closer than 10 feet to the highway pavement, back of curb or gutter, or shoulder break line, whichever is further. If casing pipes are used, the voids in the casing pipe shall be filled and/or the ends sealed so there will be no siltation into the casing pipe.

TILE LINES AND STORM SEWERS

Existing tile lines and storm sewers that are encountered during construction operations shall be replaced if broken with like size and kind of material. Tile line and storm sewer crossings at the excavation shall be bridged with rigid material such as wood or steel. The location and depth of any encountered tile lines and storm sewers shall be recorded and a copy given to the Lake County Division of Transportation.

WINTER CONSTRUCTION WORK

Snow and ice removal operations of the Lake County Division of Transportation shall have precedence over the construction operations. A 12-foot wide (minimum) clear area from the highway pavement edge shall be maintained for the roadside storage of snow and ice. No construction equipment or materials shall be stored in this 12-foot wide (minimum) clear area nor shall any piles of dirt or excavated materials be left in this area.

RESTORATION AND CLEAN-UP

The area of the County Highway right-of-way disturbed by construction operations shall be kept to a minimum and shall be restored as promptly as weather and soil conditions permit. If restoration is not accomplished voluntarily, the Lake County Division of Transportation may set a final date for the completion of the restoration work. Turf areas of the right-of-way disturbed by construction operations shall be compacted and regraded to an equal or better condition than existed before construction. Also an average 3-inch depth of topsoil, fertilizer, seed and mulch shall be used. Hydro seeding is also acceptable. Sod shall be used in high erosion areas. This restoration work will not be considered completed until the turf cover is established. Gravel and paved shoulders that are damaged shall be replaced as directed by the Lake County Division of Transportation. Driveways, side roads and other accesses, which are damaged, shall be restored with similar materials and thickness. The edges of excavated paved surfaces shall be sawcut prior to repair. Culverts, storm sewer systems and other drainage facilities including ditch lines shall be cleaned of siltation and debris due to the construction operations. Other areas of the right-of-way that have been disturbed such as curb and gutters shall be restored with similar materials. Any damaged property of the County of Lake, its Division of Transportation, or of others (including utility companies) shall be repaired or replaced or the owner of the damaged property reimbursed for the costs of repairing the damaged property by the owner.

RESTORATION GUARANTEE

Any restoration work that falls within one year of completion shall be redone. Also, any settlement that occurs within one year of completion of the surface restoration work shall be filled and the surface area restored.

KEEPING ROADS OPEN TO TRAFFIC

All roads shall remain open to traffic. The Contractor may close one lane because of construction only between the hours of 9:00 a.m. and 3:00 p.m. The person in charge shall notify the Lake County Division of Transportation - Transportation Management Center, (847) 377-7000, of any lane closure and when the lane re-opens. This information will be broadcast on the Lake County Passage website and Highway Advisory Radio. The Contractor shall maintain traffic during these restricted hours as shown on the Traffic Control Standards. Two lanes of traffic will be maintained between 3:00 p.m. and 9:00 a.m. and when no construction activities are being carried out. Traffic routed around construction areas shall be over paved surfaces and not over gravel shoulders.

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-08	PERPENDICULAR 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
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE 1
604036-03	GRATE, TYPE B
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606101-05	TYPE A GUTTER (INLET, OUTLET AND ENTRANCE)
606201-03	TYPE B GUTTER (INLET, OUTLET AND ENTRANCE)
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) 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
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEED > 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-05	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
B.L.R. 24-2	MAILBOX TURNOUT FOR LOCAL ROADS

LAKE COUNTY NOTE:

THE REVIEW AND APPROVAL OF THESE FINAL ENGINEERING PLANS AND SPECIFICATIONS BY THE LAKE COUNTY DIVISION OF TRANSPORTATION DOES NOT CONSTITUTE A RELEASE FROM OR GRANT OF VARIATION FROM THE RULES, REGULATIONS, AND SPECIFICATIONS REQUIRED IN THE LAKE COUNTY HIGHWAY UTILITY AND FACILITY PLACEMENT ORDINANCE, LATEST EDITION, AS AMENDED, OR ANY SUCCESSOR DOCUMENT OR DOCUMENTS THERETO. THE PERMITTEE, THE PERMITTEE'S DESIGNATED REPRESENTATIVES, AND/OR ALL SUCCESSORS AND ASSIGNS SHALL BE SOLELY RESPONSIBLE FOR ALL WORK AND IMPROVEMENTS WITHIN THE LIMITS OF THE COUNTY HIGHWAY RIGHT-OF-WAY, UNLESS OTHERWISE SPECIFIED, APPROVED IN WRITING BY THE LAKE COUNTY COUNTY ENGINEER, AND ON FILE WITH THE LAKE COUNTY DIVISION OF TRANSPORTATION, ALL WORK AND MATERIALS NECESSARY TO CONSTRUCT UTILITIES AND FACILITIES AND RESTORE THE RIGHT-OF-WAY WITHIN THE LIMITS OF THE COUNTY HIGHWAY SHALL BE IN CONFORMANCE WITH THE RULES, REGULATIONS, AND SPECIFICATIONS OF THE LAKE COUNTY UTILITY AND FACILITY PLACEMENT ORDINANCE, LATEST EDITION, AS AMENDED, OR ANY SUCCESSOR DOCUMENT OR DOCUMENTS THERETO.

BENCHMARKS (NAVD 29)

BM #15	+	CUT CROSS IN CONCRETE WALK AT THE NORTHEAST INTERSECTION OF DARRELL ROAD AND BELVIDERE ROAD. ELEVATION = 759.05
BM #17	+	CUT CROSS IN BACK OF CURB AT THE EAST SIDE OF DARRELL ROAD 331± SOUTH OF INTERSECTION OF DARRELL ROAD AND BELVIDERE ROAD. ELEVATION = 755.70
BM #21	+	CUT CROSS IN CONCRETE WALK AT THE WEST SIDE OF DARRELL ROAD, 131± NORTH OF INTERSECTION OF BAYBERRY COURT AND DARRELL ROAD. ELEVATION = 759.89
BM #26	+	CUT CROSS IN CONCRETE WALK AT WEST SIDE OF DARRELL ROAD 248± SOUTH OF INTERSECTION OF DARRELL ROAD AND BELVIDERE ROAD. ELEVATION = 758.66
BM #27	+	CUT CROSS IN BACK OF CURB AT WEST SIDE OF DARRELL ROAD, 108± SOUTH OF INTERSECTION OF DARRELL ROAD AND BAKERS DRIVE. ELEVATION = 758.27
BM #34	+	CUT CROSS IN BACK OF CURB AT WEST SIDE OF DARRELL ROAD, 47± SOUTH OF INTERSECTION OF DARRELL ROAD AND INNETOWNE ROAD. ELEVATION = 757.65
BM #37	+	P.K. NAIL IN ASPHALT SHOULDER AT WEST SIDE OF DARRELL ROAD 800± SOUTH OF INTERSECTION OF DARRELL ROAD AND BELVIDERE ROAD. ELEVATION=758.37
BM #46	+	P.K. NAIL IN ASPHALT DRIVEWAY AT THE NORTHWEST CORNER OF INTERSECTION OF HERBERT ROAD & WEGNER ROAD. ELEVATION = 756.17
BM #50	+	P.K. NAIL IN ASPHALT PATH 24' WEST OF CENTERLINE INTERSECTION OF S. LILY LAKE ROAD & WEGNER ROAD. ELEVATION = 762.58
BM #5450	+	CUT CROSS IN CONCRETE LID AT THE SOUTH SIDE OF INTERSECTION OF VENICE ROAD AND WEGNER ROAD. ELEVATION = 753.04

INDEX OF SHEETS

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LEGEND

EXISTING	PROPOSED

CONSULTING, INC.
DESIGNED - C.K.
DRAWN - S.R.M.
CHECKED - J.K.
DATE - 07/21/15

REVISED - 10/09/15 IDOT SUBMITTAL
REVISED - 12/07/15 FINAL PLANS
REVISED - 12/29/15 IDOT REVIEW
REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	2
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				

SCALE: - STA. 0+00 TO STA. 0+00

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY 0028	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0028	0021	PARTICIPATING
				STP	STP	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	39			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	99			
20101200	TREE ROOT PRUNING	EACH	1			
20200100	EARTH EXCAVATION	CU YD	1,460			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	7.5			
20800150	TRENCH BACKFILL	CU YD	5			
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	850			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,500			
21400100	GRADING AND SHAPING DITCHES	FOOT	1,850			
25000210	SEEDING, CLASS 2A	ACRE	1.00			
25000300	SEEDING, CLASS 3	ACRE	0.25			
25000312	SEEDING, CLASS 4A	ACRE	0.25			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	93.6			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	37.44			
25100127	MULCH, METHOD 3A	ACRE	1.00			
25100900	TURF REINFORCEMENT MAT	SQ YD	526			
25200200	SUPPLEMENTAL WATERING	UNIT	57			

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY 0028	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0028	0021	PARTICIPATING
				STP	STP	
28000305	TEMPORARY DITCH CHECKS	FOOT	45			
28000400	PERIMETER EROSION BARRIER	FOOT	244			
28000510	INLET FILTERS	EACH	32			
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	5,663			
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	1,284			
35101400	AGGREGATE BASE COURSE, TYPE B	TON	703			
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	410			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	22,088			
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	458			
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	458			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	600			
42400800	DETECTABLE WARNINGS	SQ FT	198			
44000100	PAVEMENT REMOVAL	SQ YD	600			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	410			
44000500	COMBINATION CURB & GUTTER REMOVAL	FOOT	21			
44000600	SIDEWALK REMOVAL	SQ FT	16			
48100300	AGGREGATE SHOULDERS, TYPE A 4"	SQ YD	206			

REVISED - 01/29/16 FINAL PLANS

CONSULTING, INC.
SURVEYING, GEOTECHNICAL, ENVIRONMENTAL
CONSULTING, CIVIL, STRUCTURAL & LAND SURVEYING
200 WEST WASHINGTON, SUITE 1000, CHICAGO, IL 60601-2000

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/06/16 IDOT REVIEW

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: - STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	3
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY 0028	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0028 STP	0021 STP	PARTICIPATING
50105220	PIPE CULVERT REMOVAL	FOOT	25			
52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	400			
54200217	PIPE CULVERT, CLASS D, TYPE 1 12"	FOOT	25			
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	138			
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	5			
550B0040	STORM SEWERS, CLASS B, TYPE 1 10"	FOOT	12			
550B0070	STORM SEWERS, CLASS B, TYPE 1 15"	FOOT	5			
55106015	STORM SEWERS INSTALLATION 8"	FOOT	16			
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ YD	760			
60103500	PIPE DRAINS, CORRUGATED STEEL 12"	FOOT	30			
60103600	PIPE DRAINS, CORRUGATED STEEL 15"	FOOT	20			
60108208	PIPE UNDERDRAINS, TYPE 2, 8"	FOOT	962			
60207005	CATCH BASINS, TYPE C, TYPE 1 FRAME, CLOSED LID	EACH	2			
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	4			
60211100	CATCH BASINS, TYPE D, 3'-DIAMETER, TYPE 8 GRATE	EACH	4			
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1			

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY 0028	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0028 STP	0021 STP	PARTICIPATING
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2			
60255500	MANHOLES TO BE ADJUSTED	EACH	1			
60403700	LIDS, TYPE 1, OPEN LID	EACH	2			
60401810	GRATES, TYPE 3	EACH	22			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	21			
67100100	MOBILIZATION	LSUM	1			
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1			
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1			
72000100	SIGN PANEL -- TYPE 1	SQ FT	258			
72300100	INSTALL EXISTING SIGN PANEL	SQ FT	50			
72400100	REMOVE SIGN PANEL ASSEMBLY -- TYPE A	EACH	20			
72400710	RELOCATE SIGN PANEL -- TYPE 1	SQ FT	75			
72900100	METAL POST -- TYPE A	FOOT	958			
* 78000200	THERMOPLASTIC PAVEMENT MARKING LINE -- 4"	FOOT	7,506			
* 78000400	THERMOPLASTIC PAVEMENT MARKING LINE -- 6"	FOOT	1,029			



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	REVISED -- 01/06/16 IDOT REVIEW

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: -- STA. TO STA.

F.A.U. SITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	4
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY 0028	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0028 STP	0021 STP	PARTICIPATING
* 78000600	THERMOPLASTIC PAVEMENT MARKING LINE - 12"	FOOT	1,068			
* 78000650	THERMOPLASTIC PAVEMENT MARKING LINE - 24"	FOOT	401			
* 78001100	PAINT PAVEMENT MARKING LINE - LETTERS AND SYMBOLS	SQ FT	612			
* 78001110	PAINT PAVEMENT MARKING LINE - 4"	FOOT	7,885			
* 78001130	PAINT PAVEMENT MARKING LINE - 6"	FOOT	356			
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	30			
* 81702417	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6, 1/C NO. 6 GROUND	FOOT	185			
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1			
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	896			
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	932			
* 87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1			
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4			
* 87900200	DRILL EXISTING HANDHOLE	EACH	1			
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4			
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	4			
* 89502200	MODIFY EXISTING CONTROLLER	EACH	1			
* X6330705	RUB RAIL	FOOT	226			

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY 0028	CONSTRUCTION TYPE CODE		
				ROADWAY	SAFETY	NON
				0028 STP	0021 STP	PARTICIPATING
* XX001249	ORNAMENTAL FENCE	FOOT	226			
Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	440			
Z0013798	CONSTRUCTION LAYOUT	LSUM	1			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	104			

CONSULTING, INC.
 INFRASTRUCTURE DESIGN
 CONSULTING ENGINEERS & LAND SURVEYORS
 1000 N. WILSON AVENUE, SUITE 200
 DEERFIELD, ILLINOIS 60015

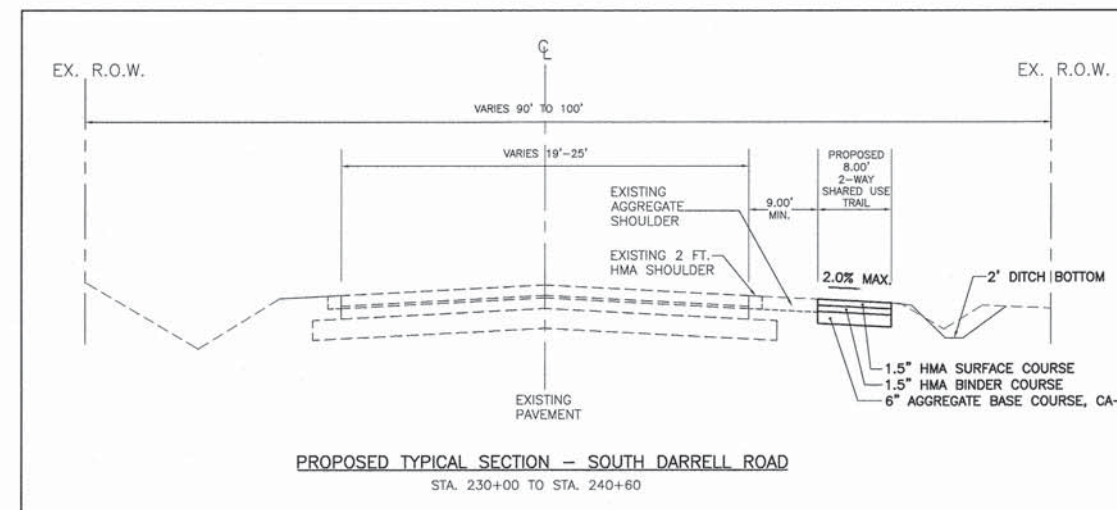
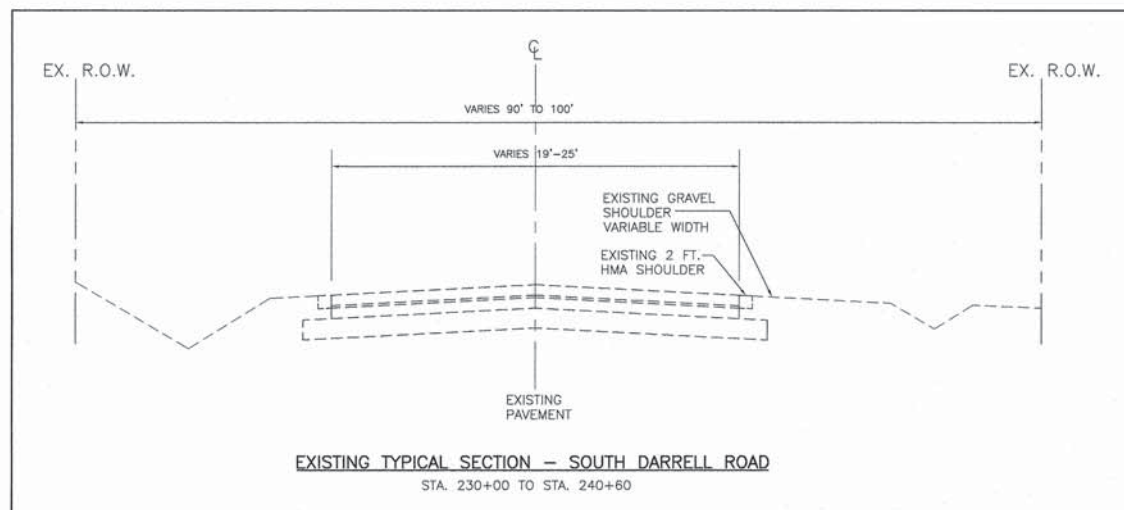
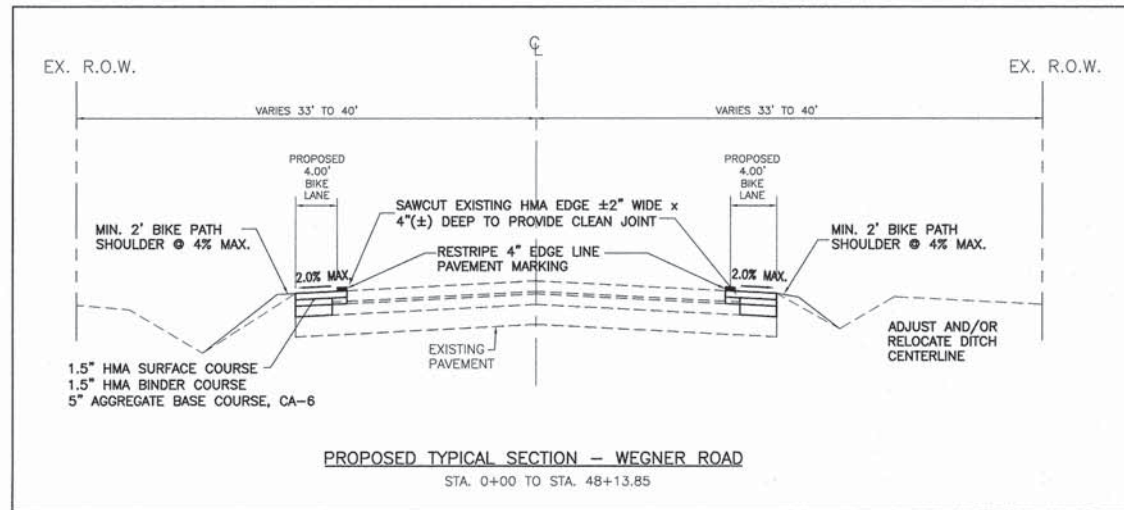
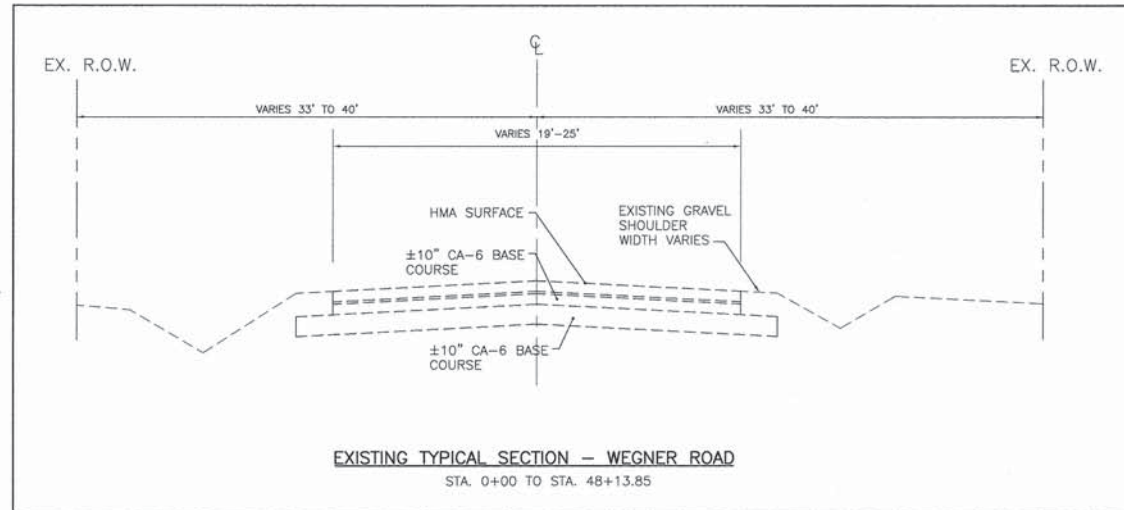
DESIGNED - C.K.	REVISOR - 01/29/16 FINAL PLANS
DRAWN - S.R.M.	REVISOR - 10/09/15 IDOT SUBMITTAL
CHECKED - J.K.	REVISOR - 12/07/15 FINAL PLANS
DATE - 07/21/15	REVISOR - 12/29/15 IDOT REVIEW
	REVISOR - 01/06/16 IDOT REVIEW

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: - STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	5
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				



HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES
SHOULDER WIDENING	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 1 1/2"	4% @ 50 GYR.
HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50 1 1/12"	4% @ 50 GYR.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5MM); (PE-3") (CE-2")	4% @ 50 GYR.
BIKE PATH	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5 MM); 1 1/2"	4% @ 50 GYR.
HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50 1 1/12"	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 76-22" 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

NOTE: 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 27.

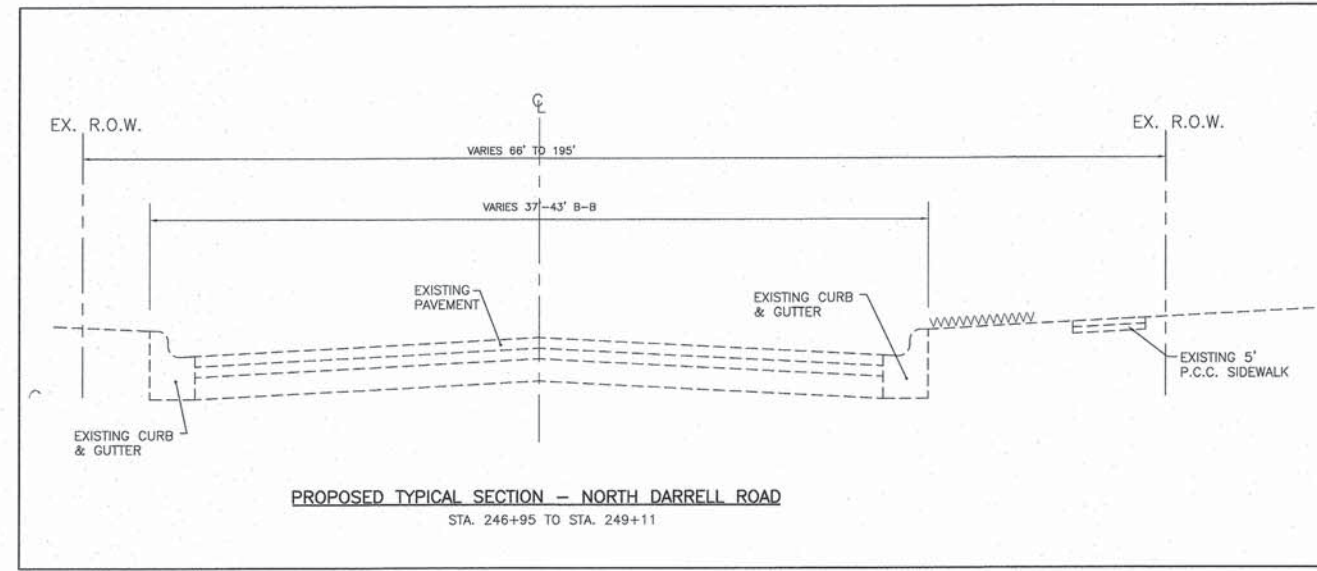
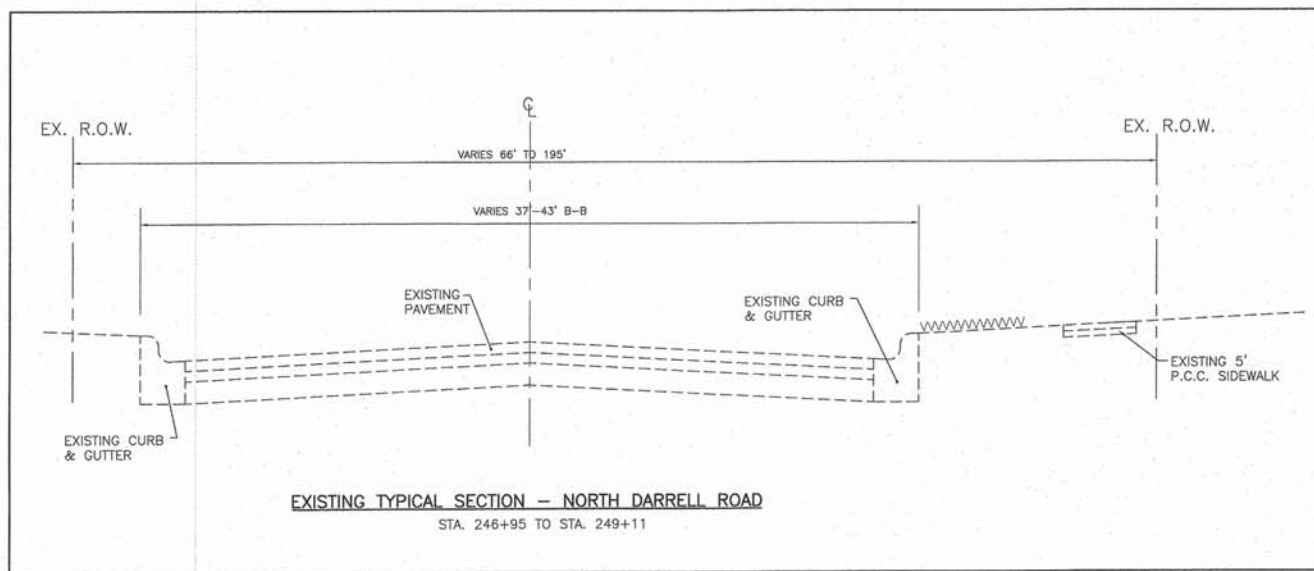
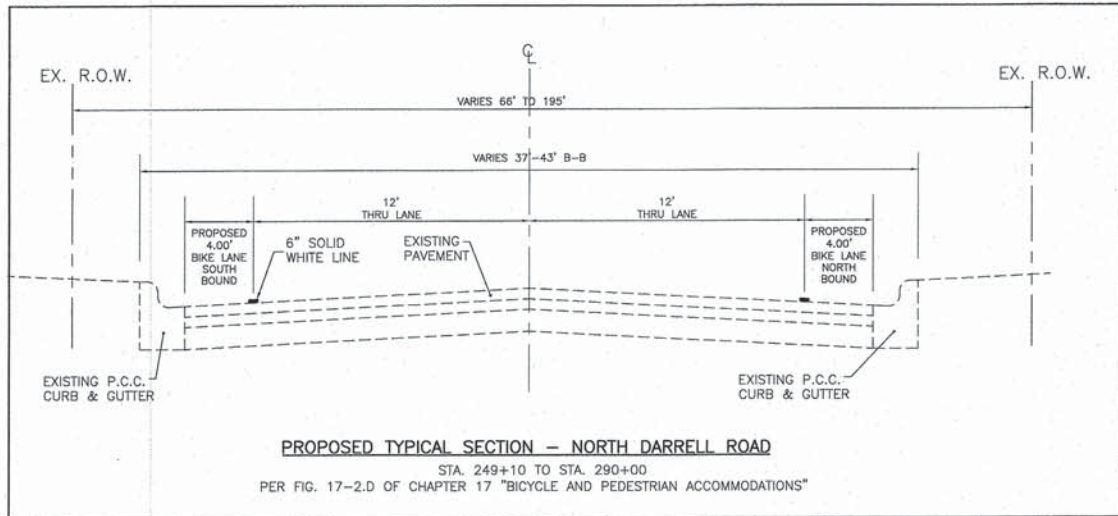
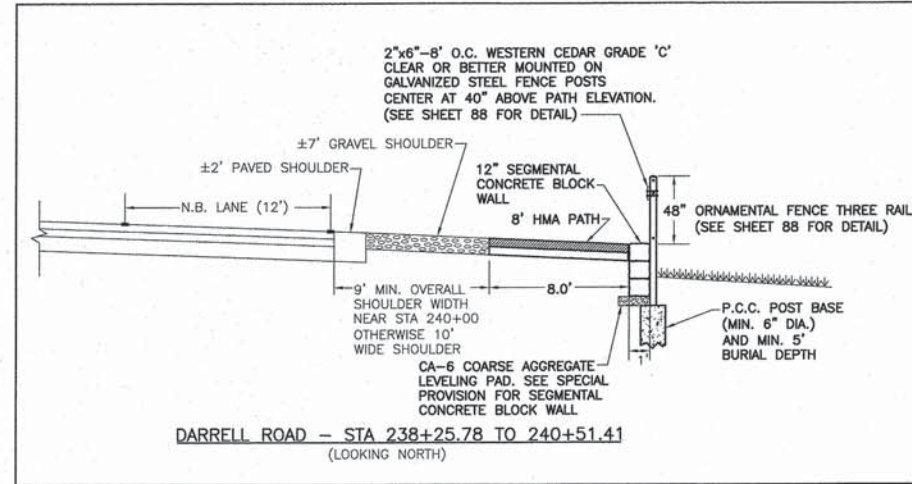
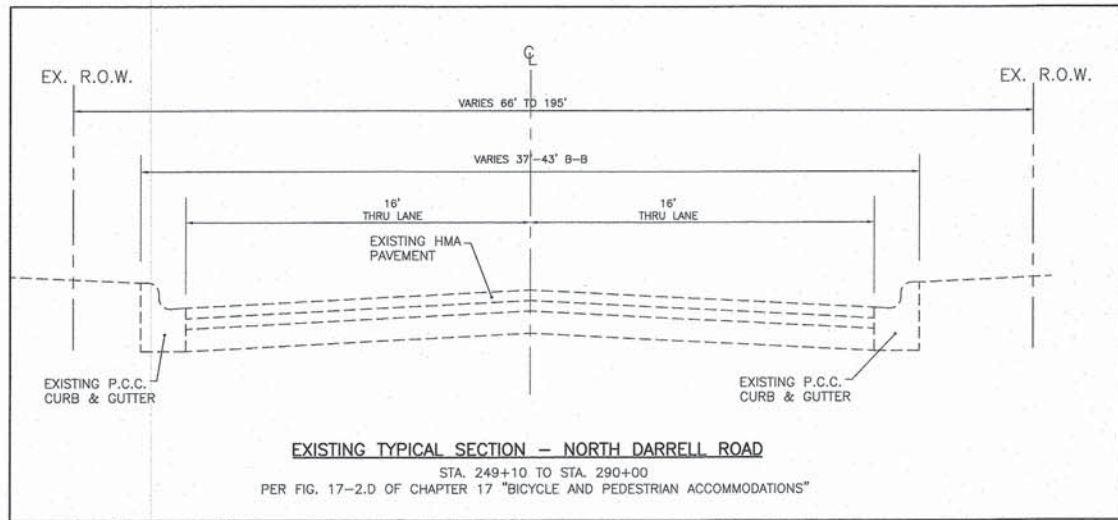
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING & PROPOSED TYPICAL SECTIONS

SCALE: - STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	6
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(697)				



	DESIGNED - C.K.	REVISED - 01/29/16 FINAL PLANS
	DRAWN - S.R.M.	REVISED - 10/09/15 IDOT SUBMITTAL
	CHECKED - J.K.	REVISED - 12/07/15 FINAL PLANS
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		REVISED - 01/06/16 IDOT REVIEW

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
SCALE: - STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	7
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

EARTHWORK

LOCATION	TOPSOIL EXCAVATION IN DITCHES (2") CU YD	TOPSOIL EXCAVATION AND PLACEMENT IN DITCHES ¹ (15% SHRINKAGE) (4") CU YD	UNDERCUT & AGGREGATE SUBGRADE IMPROVEMENT ² CU YD	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL ³ CU YD	EARTH EXCAVATION ⁴ CU YD	EXCAVATION TO BE USED FOR EMBANKMENT (15% SHRINKAGE) CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
WEGNER ROAD							
STA 0+50 TO 13+40	121	127			417	94	+323
STA 13+40 TO 25+00	95	94			350	58	+292
STA 25+00 TO 30+70	54	54			33	40	-7
STA 30+70 TO 39+00	51	51			109	23	+86
STA 39+00 TO 48+00	150	149			251	82	+169
SUBTOTAL	471	475			1,160	297	+863
DARRELL ROAD							
STA 230+50 TO 233+25	32	33			70	44	+26
STA 233+25 TO 241+00	50	50	7.5	7.5	108	253	-183
SUBTOTAL	82	83	7.5	7.5	178	297	-157
TOTAL	553	558	7.5	7.5	1,338	594	+706


1 SHALL BE PAID FOR AS "21101505 TOPSOIL EXCAVATED AND REPLACEMENT"
 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"

SIGN PANEL REMOVAL SCHEDULE

LOCATION		72400100 REMOVE SIGN PANEL ASSEMBLY-TYPE A
STATION	SIDE	EACH
WEGNER ROAD		
1+48	RT	1
1+91	RT	1
2+33	RT	1
2+71	RT	1
35+79	LT	1
39+05	RT	1
46+54	LT	1
TOTAL		7

TREE REMOVAL SCHEDULE

LOCATION			20100110 TREE REMOVAL (6" TO 15" DIAMETER)	20100210 TREE REMOVAL (OVER 15" DIAMETER)
STATION	SIDE	DIA. INCH	UNIT	UNIT
WEGNER ROAD				
38+17	LT	18		18
38+50	LT	31		31
40+B3	LT	13,12	25	
40+10	LT	14	14	
TOTAL			39	49

	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

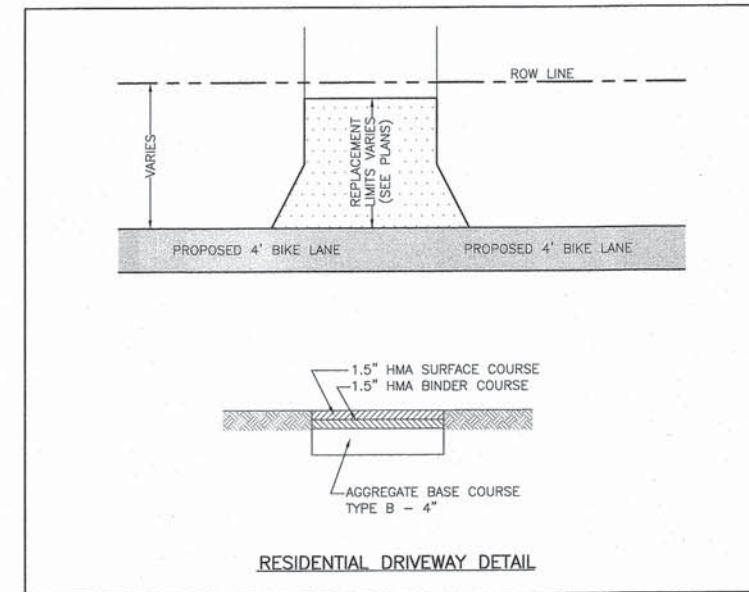
SCHEDULE OF QUANTITIES

SCALE: NONE STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	8
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

DRIVEWAY SCHEDULE

LOCATION			44000200 DRIVEWAY PAVEMENT REMOVAL	Z004510 HOT-MIX ASPHALT DRIVEWAY PAVEMENT 1 1/2" HMA SURFACE COURSE 1 1/2" HMA BINDER COURSE SQ FT	35101600 AGGREGATE BASE COURSE, TYPE B 4"
STATION	SIDE	TYPE	SQ FT	SQ FT	SQ FT
WEGNER ROAD					
1+50	LT	FE	150	150	150
2+50	LT	FE	88	88	88
2+50	RT	FE	MAINTAIN EXISTING		
3+20	LT	FE	92	92	92
3+75	RT	FE	MAINTAIN EXISTING		
4+50	LT	FE	32	32	32
5+22	LT	FE	40	40	40
6+35	LT	FE	88	88	88
7+20	LT	FE	MAINTAIN EXISTING		
8+30	LT	FE	76	76	76
9+13	LT	FE	MAINTAIN EXISTING		
9+80	LT	FE	96	96	96
10+75	RT	FE	MAINTAIN EXISTING		
11+15	LT	FE	MAINTAIN EXISTING		
11+75	LT	FE	175	175	175
12+75	LT	FE	150	150	150
15+00	LT	FE	112	112	112
23+50	LT	FE	MAINTAIN EXISTING		
24+60	RT	FE	MAINTAIN EXISTING		
25+50	RT	FE	MAINTAIN EXISTING		
26+50	RT	FE	MAINTAIN EXISTING		
27+20	LT	FE	280	280	280
27+50	RT	FE	672	672	672
29+50	LT	FE	100	100	100
29+75	LT	FE	176	176	176
29+75	RT	FE	784	784	784
32+00	LT	FE	180	180	180
32+75	LT	FE	90	90	90
33+00	LT	FE	224	224	224
35+00	LT	FE	MAINTAIN EXISTING		
36+35	RT	FE	52	52	52
38+20	RT	FE	MAINTAIN EXISTING		
38+35	LT	FE	112	112	112
46+14	RT	FE	180	180	180
TOTAL			3,949	3,949	3,949

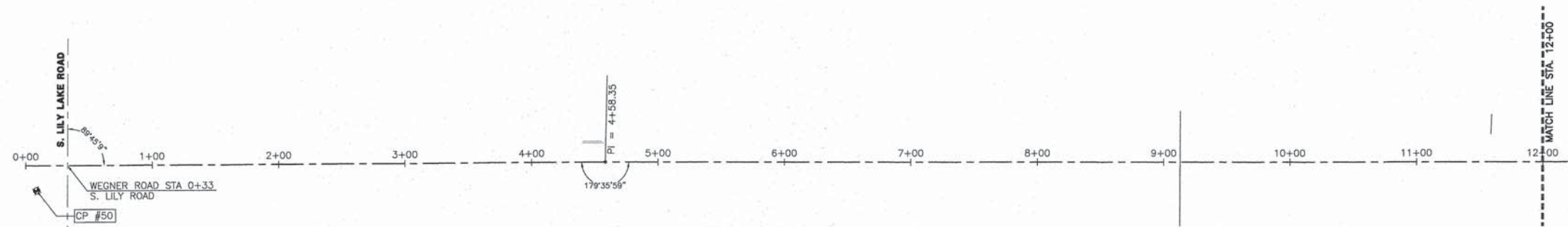


INFRACON CONSULTING, INC. INFRACON CONSULTING, INC. CONSULTING, CIVIL, ENVIRONMENTAL & LAND SURVEYING <small>AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER</small>	DESIGNED - C.K.	REVISED - 01/29/16 FINAL PLANS
	DRAWN - S.R.M.	REVISED - 10/09/15 IDOT SUBMITTAL
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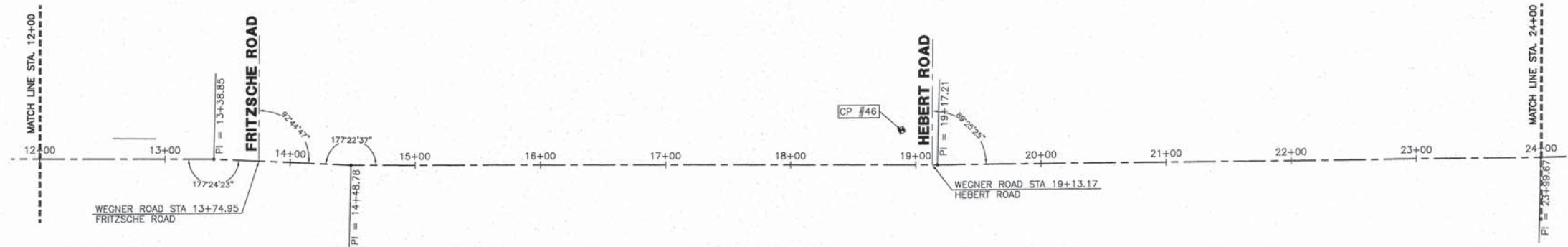
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES	
SCALE: NONE	STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	9
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



WEGNER ROAD
STA. 0+00 TO 12+00



WEGNER ROAD
STA. 12+00 TO 24+00



CONSULTING, INC.
 INFRACON GEOTECH
 1100 N. WILSON AVENUE, SUITE 100, DEERFIELD, IL 60015
 TEL: (847) 291-1100 FAX: (847) 291-1101

DESIGNED	- C.K.	REVISED	- 10/09/15 IDOT SUBMITTAL
DRAWN	- S.R.M.	REVISED	- 12/07/15 FINAL PLANS
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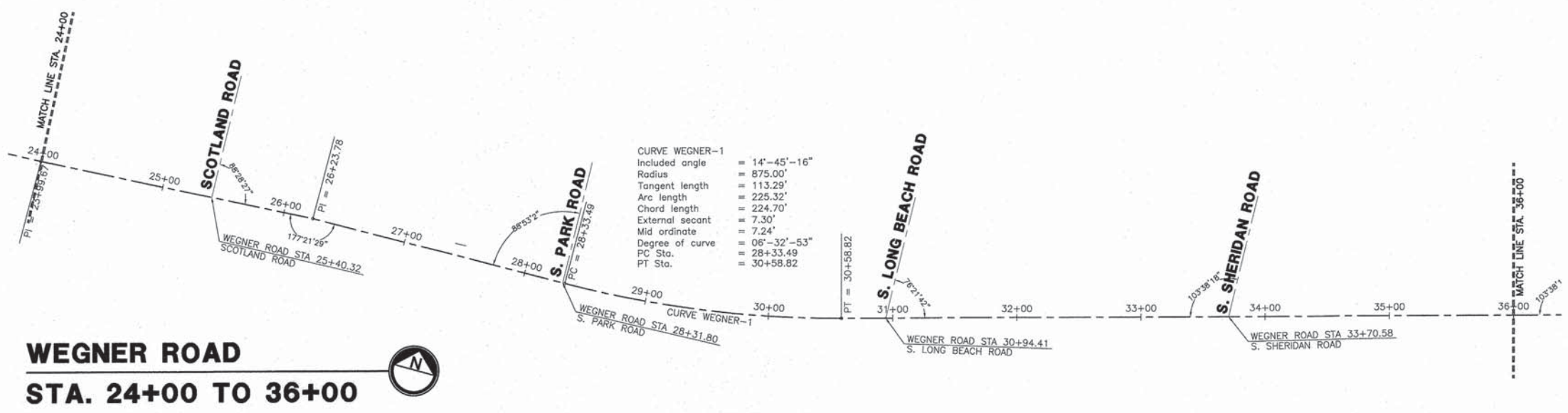
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES
WEGNER ROAD

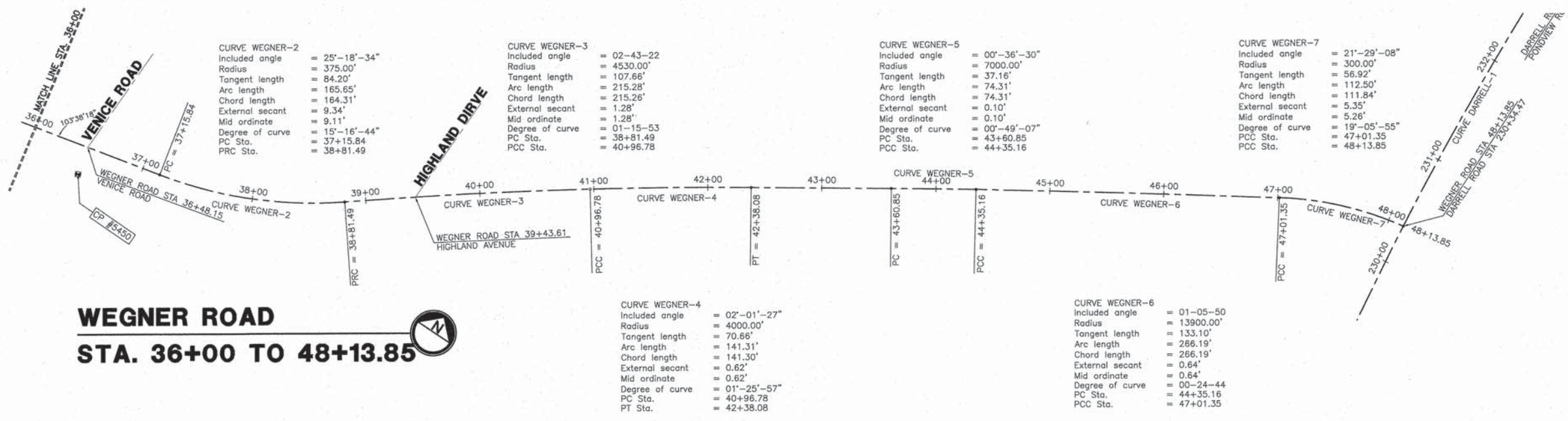
SCALE: 1"=50'

STA. 0+00 TO STA. 24+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	10
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



WEGNER ROAD
STA. 24+00 TO 36+00



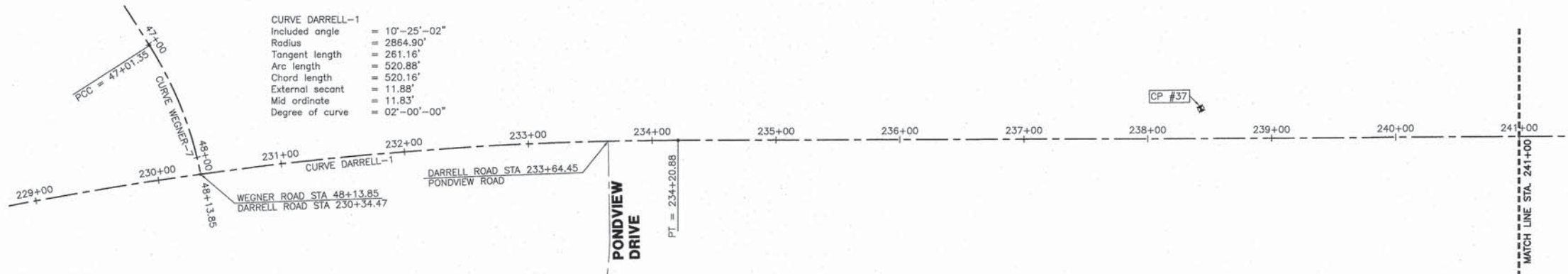
WEGNER ROAD
STA. 36+00 TO 48+13.85

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES	
WEGNER ROAD	
SCALE: 1"=50'	STA. 24+00 TO STA. 48+13.85

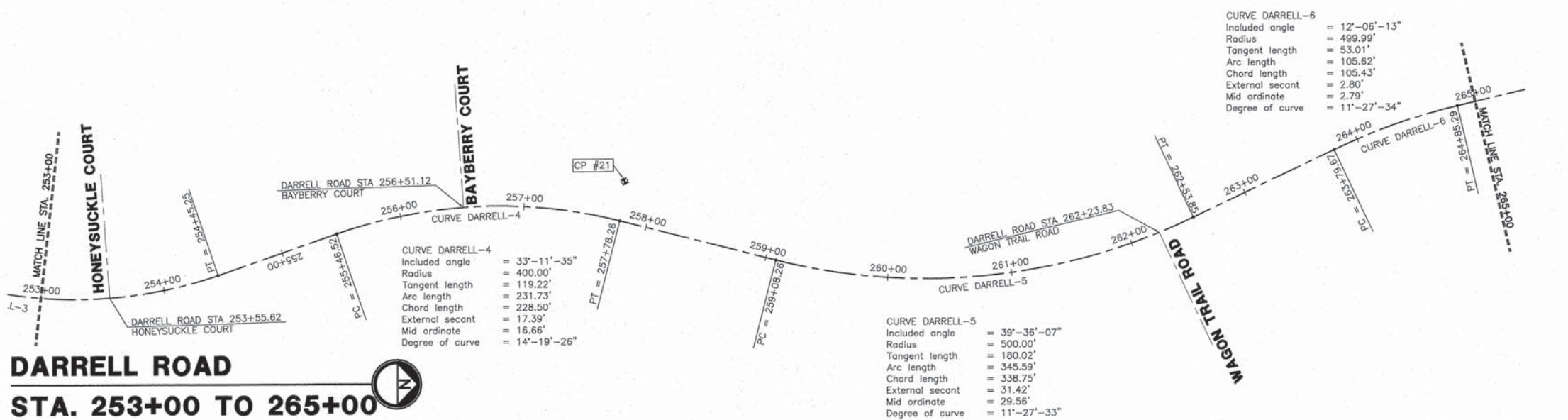
F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	11
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



DARRELL ROAD
STA. 229+00 TO 230+00



DARRELL ROAD
STA. 241+00 TO 253+00



DARRELL ROAD
STA. 253+00 TO 265+00

CONSULTING, INC.
INFRACON GEOTECH

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

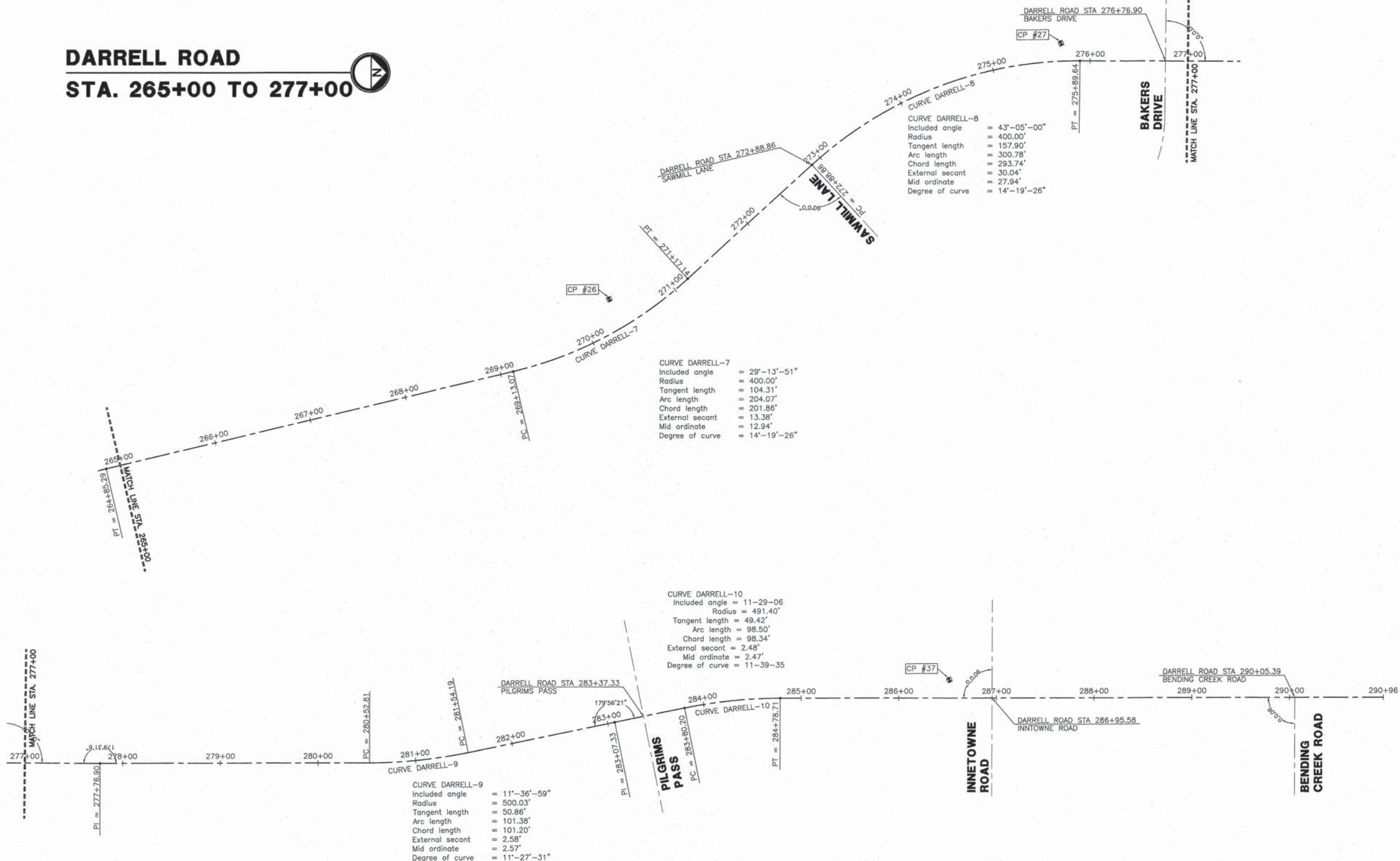
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES
DARRELL ROAD

SCALE: 1"=50'
STA. 229+00 TO STA. 253+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	12
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1(997)				

**DARRELL ROAD
STA. 265+00 TO 277+00**



**DARRELL ROAD
STA. 277+00 TO 290+96**



CONSULTING, INC.
INFRACON GESPON

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

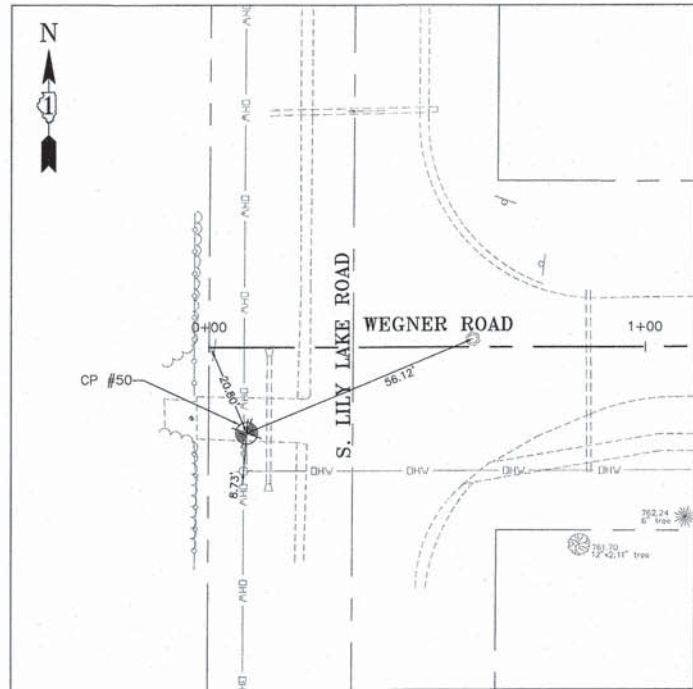
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT AND TIES
DARRELL ROAD**

SCALE: 1"=50'

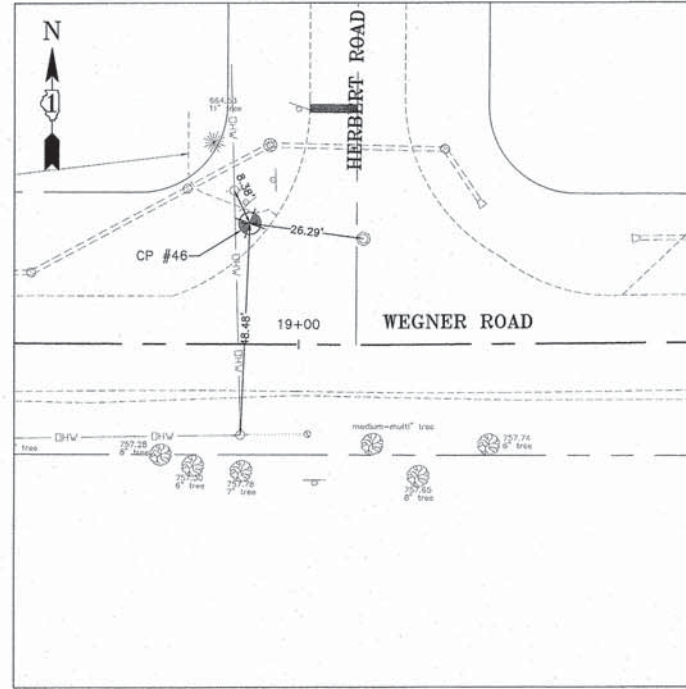
STA. 229+00 TO STA. 253+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	13
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D(1997)				



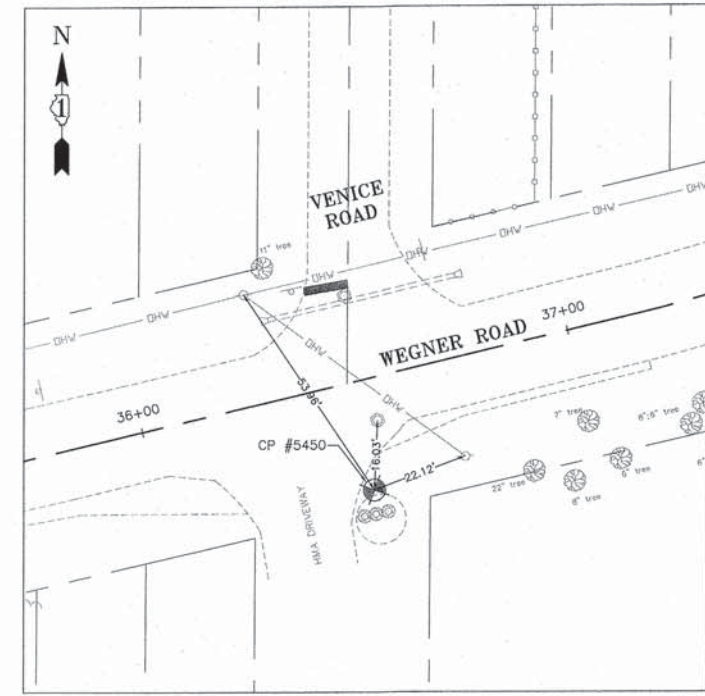
CONTROL POINT #50

P.K. NAIL IN ASPHALT PATH
 STA. 0+08.64, 19.63 RT.
 N = 1233.2718
 E = -405.9768
 ELEVATION = 762.58



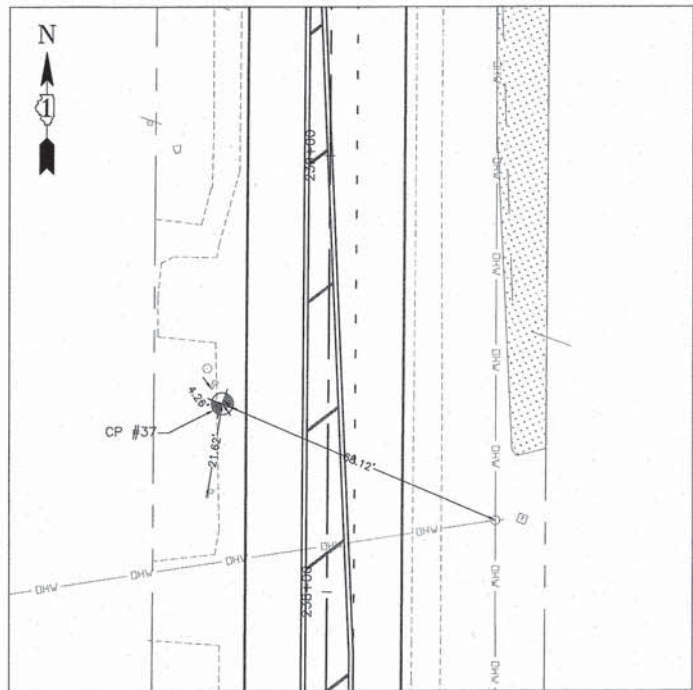
CONTROL POINT #46

P.K. NAIL IN ASPHALT DRIVEWAY
 STA. 18+88.60, 27.69 LT.
 N = 1899.8278
 E = 1352.1555
 ELEVATION = 756.17



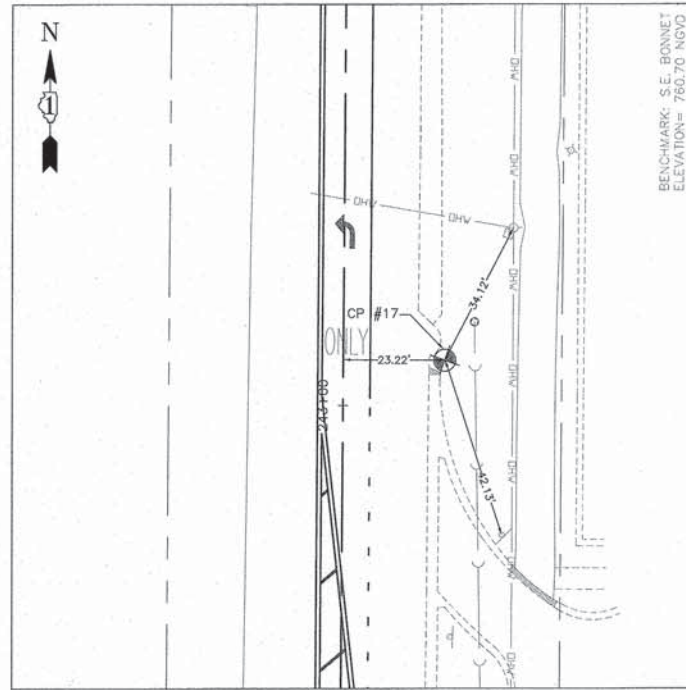
CONTROL POINT #5450

CUT CROSS IN CONCRETE LID
 STA. 36+48.69, 25.20 RT.
 N = 2594.3234
 E = 2959.7900
 ELEVATION = 753.04



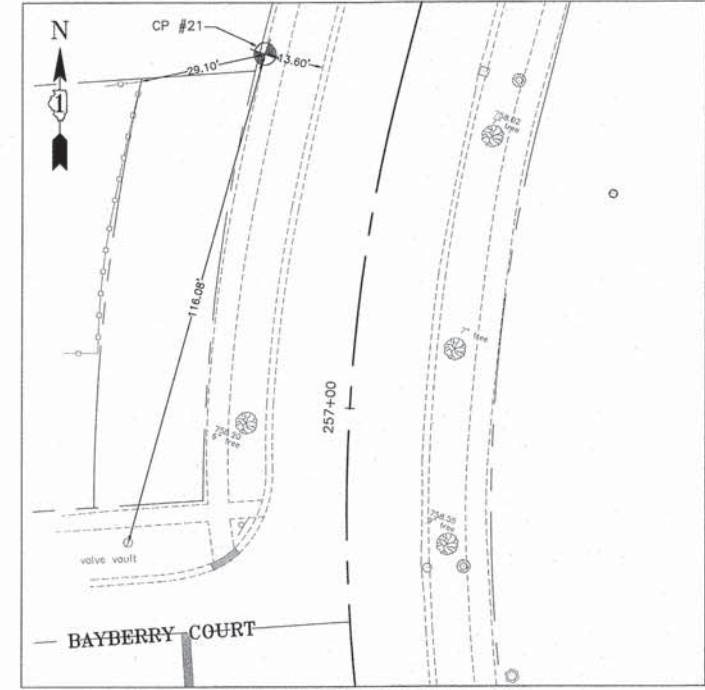
CONTROL POINT #37

P.K. NAIL IN ASPHALT SHOULDER
 STA. 238+42.92, 24.30 LT.
 N = 4254.1618
 E = 3362.4548
 ELEVATION = 758.37



CONTROL POINT #17

CUT CROSS IN BACK OF CONCRETE CURB
 STA. 243+10.44, 23.22 RT.
 N = 4710.8633
 E = 3251.7758
 ELEVATION = 755.70



CONTROL POINT #21

CUT CROSS IN CONCRETE WALK
 STA. 257+74.53, 31.74 LT.
 N = 6072.6537
 E = 2784.7948
 ELEVATION = 757.89

CONSULTING, INC.
 INFRACON GIBSON
 CIVIL ENGINEERING, SURVEYING & LAND SURVEYORS
 1000 W. WASHINGTON ST., SUITE 100, CHICAGO, IL 60606

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

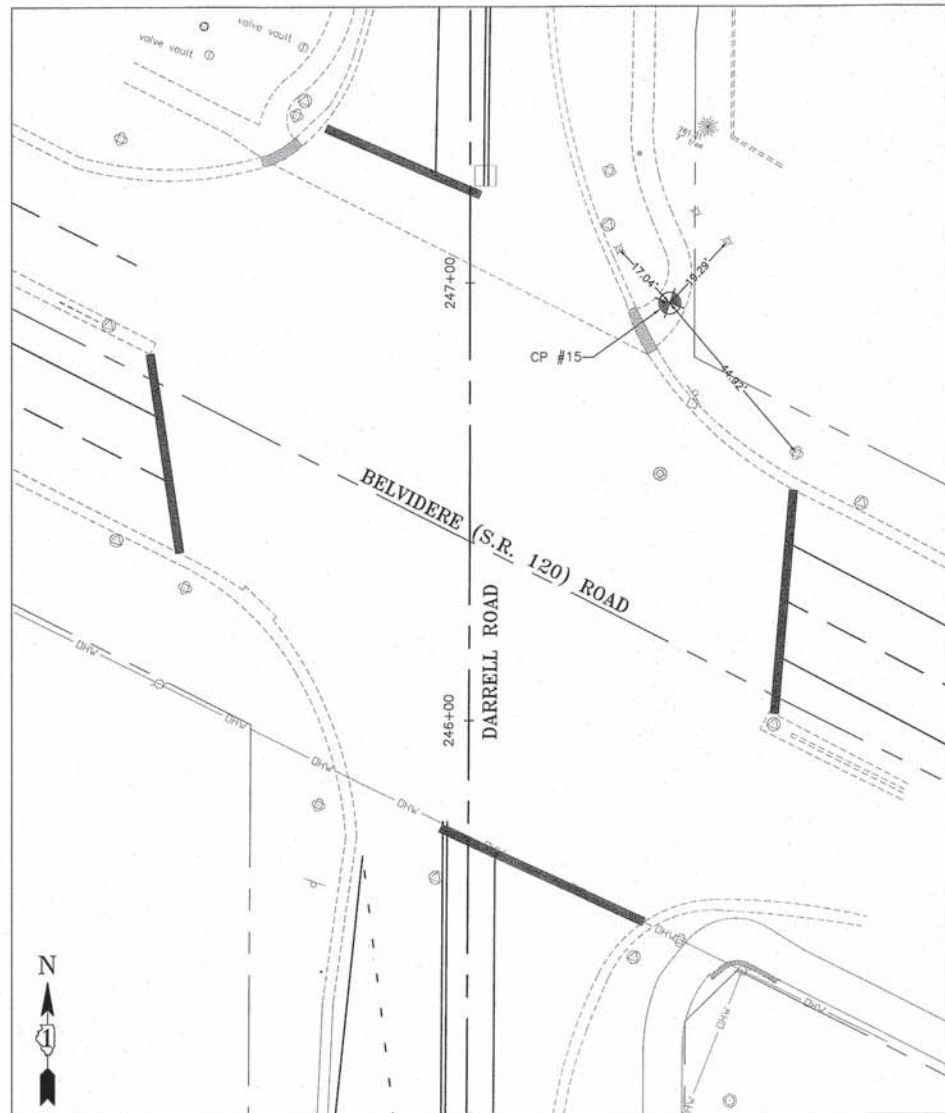
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES
DARRELL ROAD

SCALE: 1"=20'

STA. 229+00 TO STA. 253+00

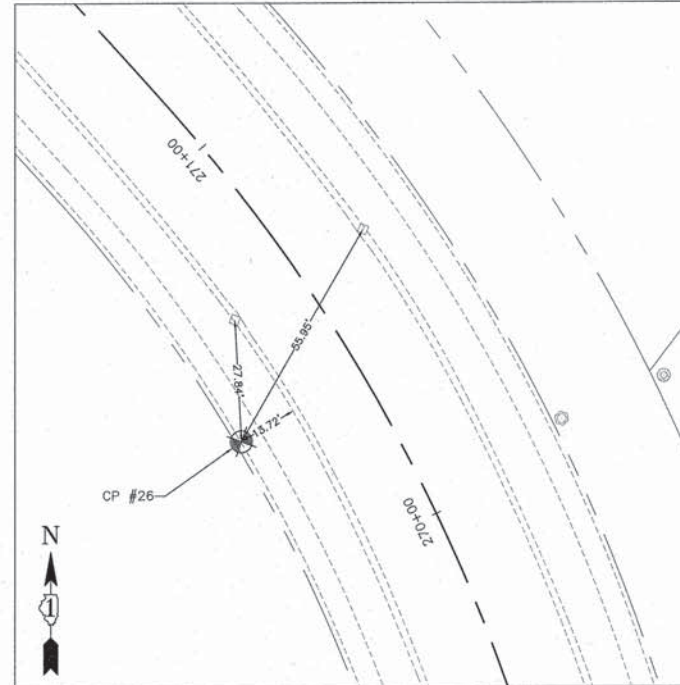
F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	14
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1(997)				



CONTROL POINT #15

CUT CROSS IN CONCRETE WALK

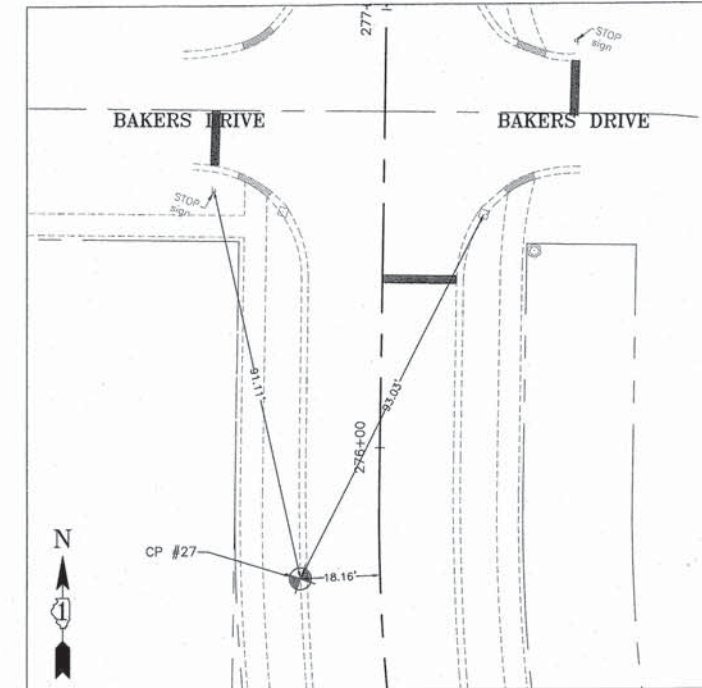
STA. 246+95.17, 45.82 RT.
 N = 5081.3500
 E = 3144.7650
 ELEVATION = 759.05



CONTROL POINT #26

CUT CROSS IN CONCRETE WALK

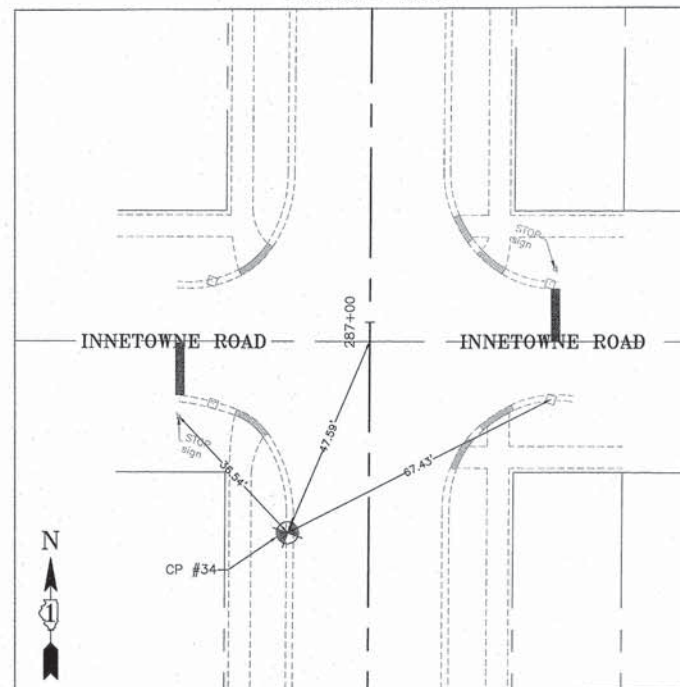
STA. 270+37.09, 31.67 LT.
 N = 7114.9385
 E = 2172.2790
 ELEVATION = 758.66



CONTROL POINT #27

CUT CROSS IN BACK OF CURB

STA. 275+70.83, 18.16 LT.
 N = 7463.6905
 E = 1773.4723
 ELEVATION = 758.27



CONTROL POINT #34

CUT CROSS IN BACK OF CURB

STA. 286+51.77, 18.60 LT.
 N = 8456.8755
 E = 1355.3645
 ELEVATION = 757.65

CONSULTING, INC.
 INFRACON GEOWON
 CONSULTING, INC. ENGINEERING & LAND SURVEYORS
 1000 N. WASHINGTON ST., SUITE 100, CHICAGO, IL 60610

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

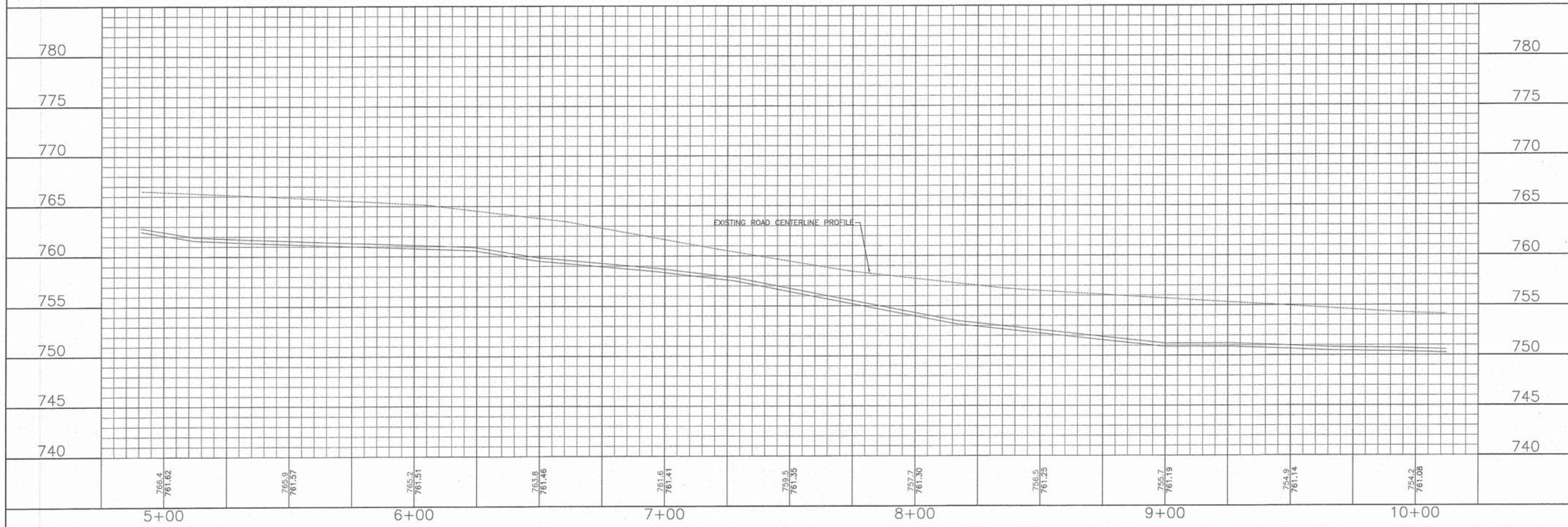
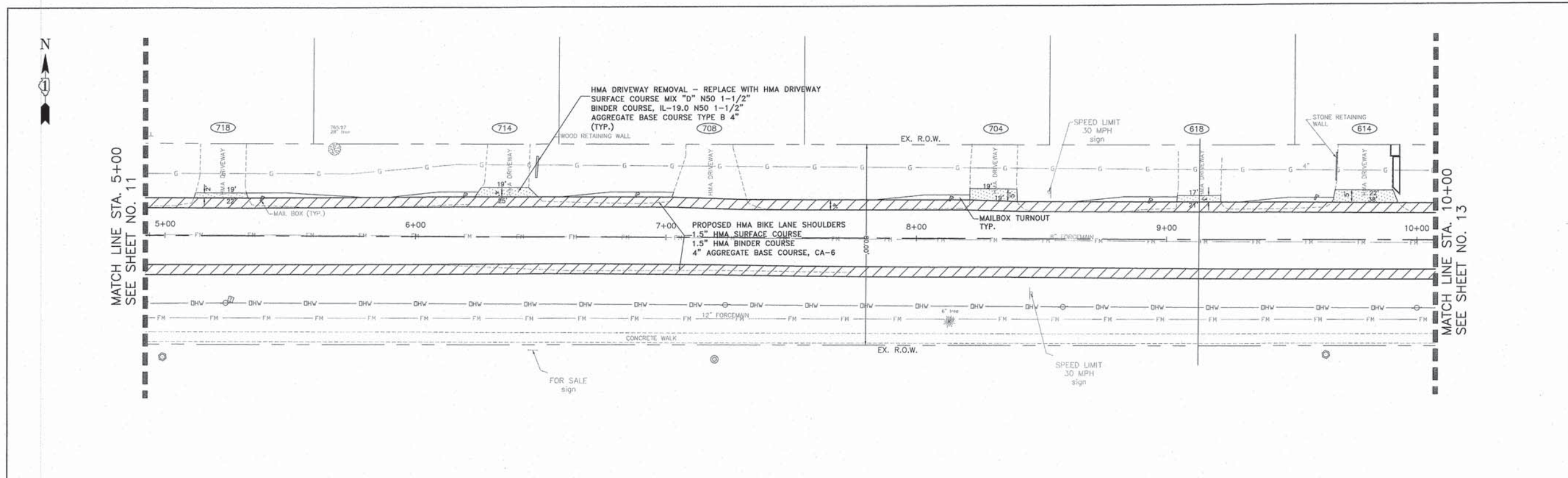
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT AND TIES
 DARRELL ROAD**

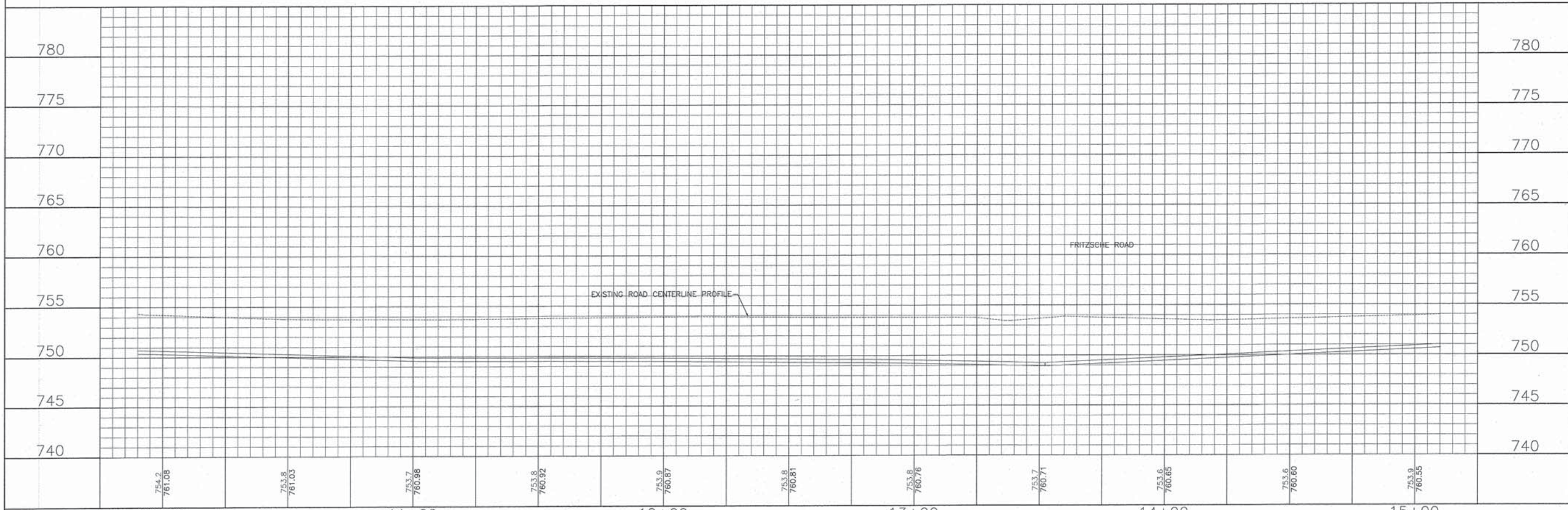
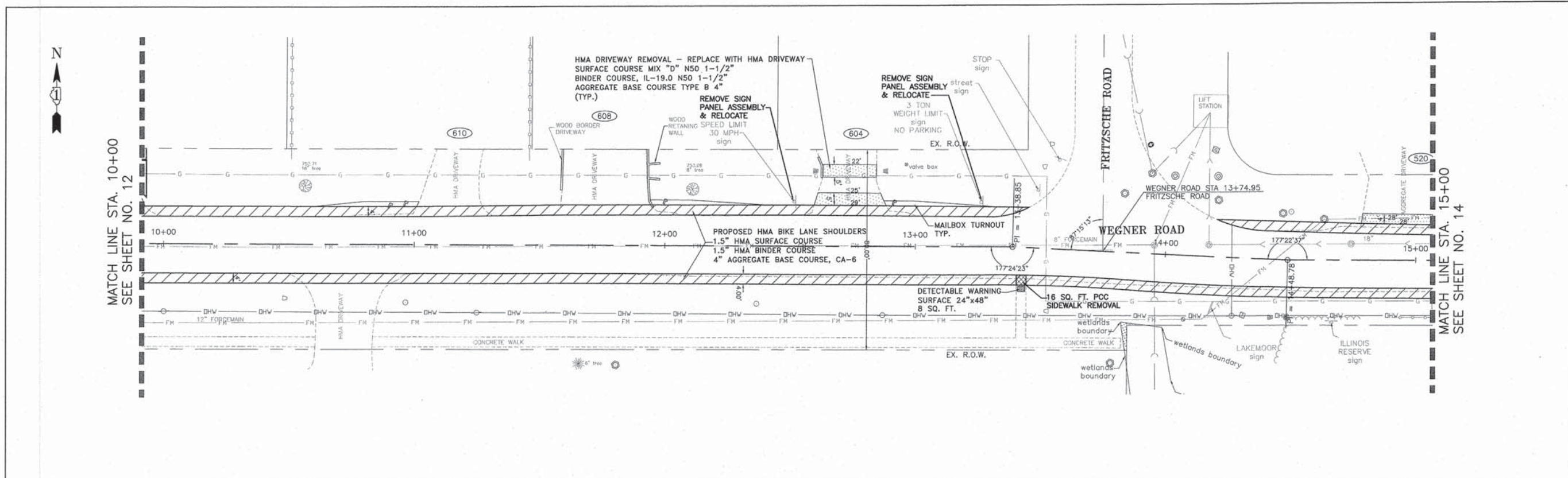
SCALE: 1"=20'

STA. 229+00 TO STA. 253+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	15
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



CONSULTING, INC. <small>INFRACON GEOTECH CONSULTING & LAND DEVELOPMENT</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE WEGNER ROAD		F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 17
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS		SCALE: H: 1"=20' V: 1"=5'		STA. 5+00	TO STA. 10+00	CONTRACT NO. 61C28		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW								
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS								



754.2 761.08	753.8 761.03	753.7 760.98	753.6 760.92	753.9 760.87	753.8 760.81	753.8 760.76	753.7 760.71	753.6 760.65	753.6 760.60	753.9 760.55
10+00		11+00		12+00		13+00		14+00		15+00

CONSULTING, INC.
INFRACON GENCON
 CONSULTING ENGINEERS & LAND SURVEYORS

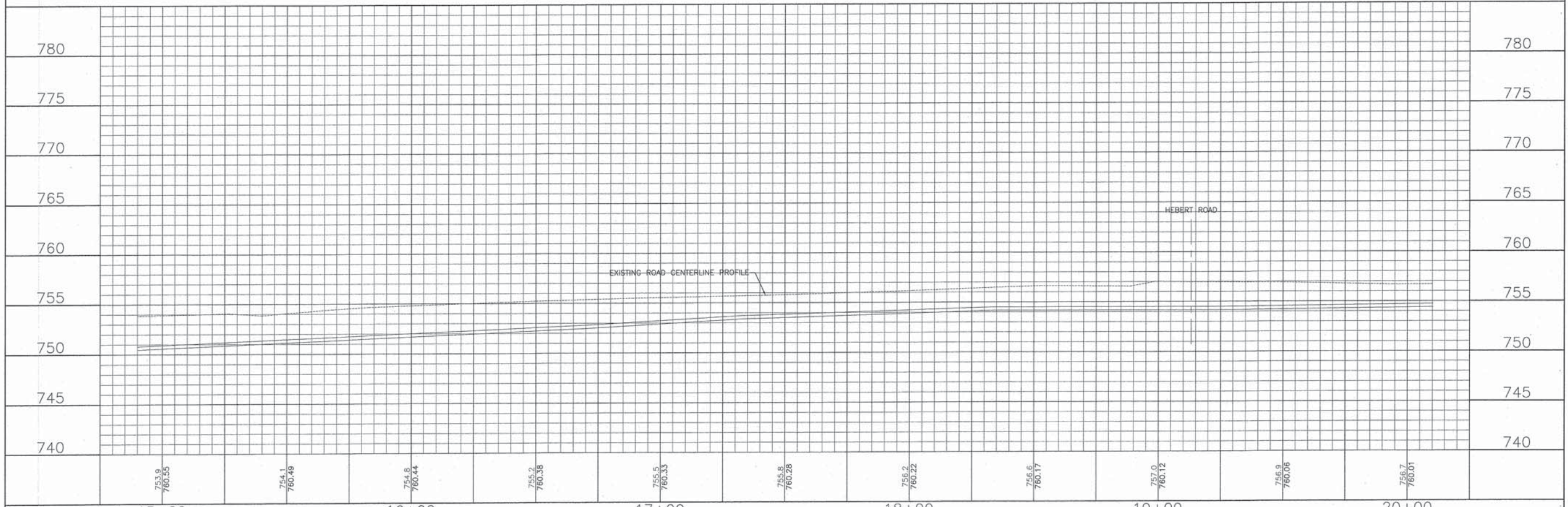
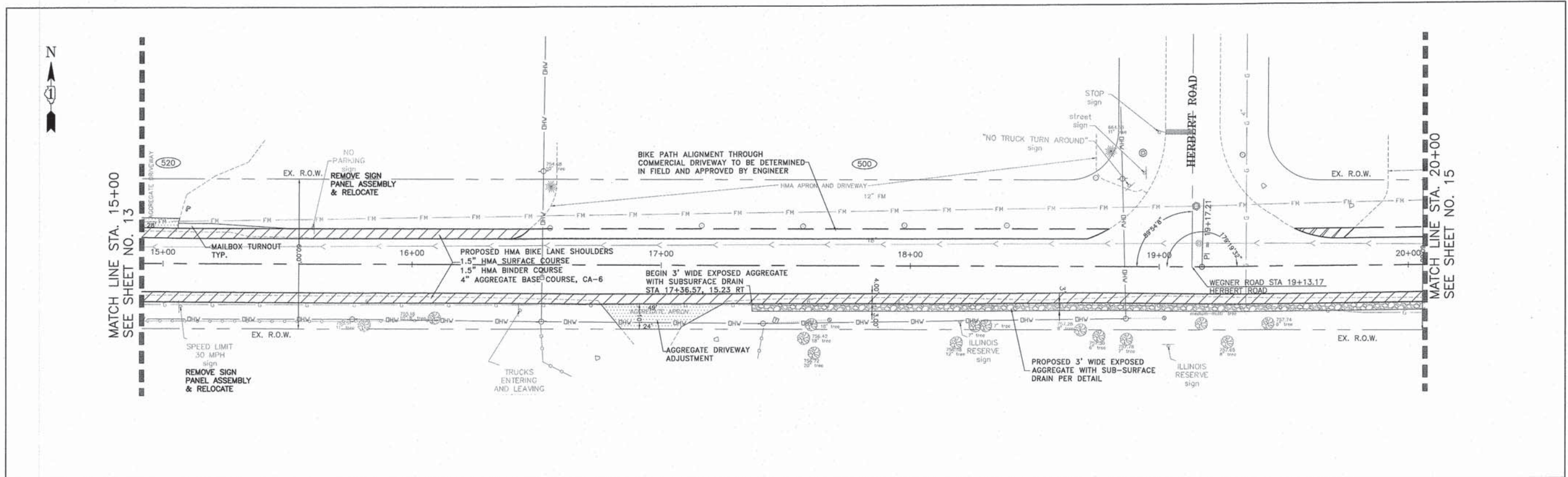
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
 WEGNER ROAD**

SCALE: H: 1"=20' V: 1"=5'
 STA. 10+00 TO STA. 15+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	18
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT YE-0001997				



753.9 760.55	754.1 760.49	754.6 760.44	755.2 760.38	755.5 760.33	755.8 760.28	756.2 760.22	756.6 760.17	757.0 760.12	756.9 760.06	756.7 760.01
15+00	16+00	17+00	18+00	19+00	20+00					

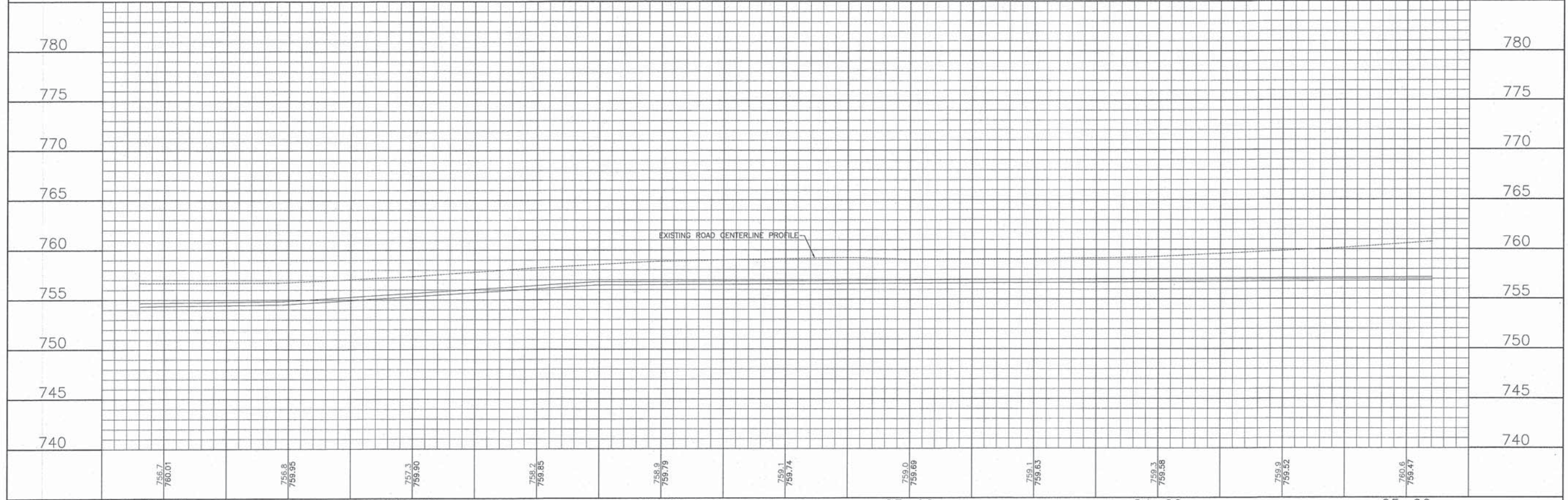
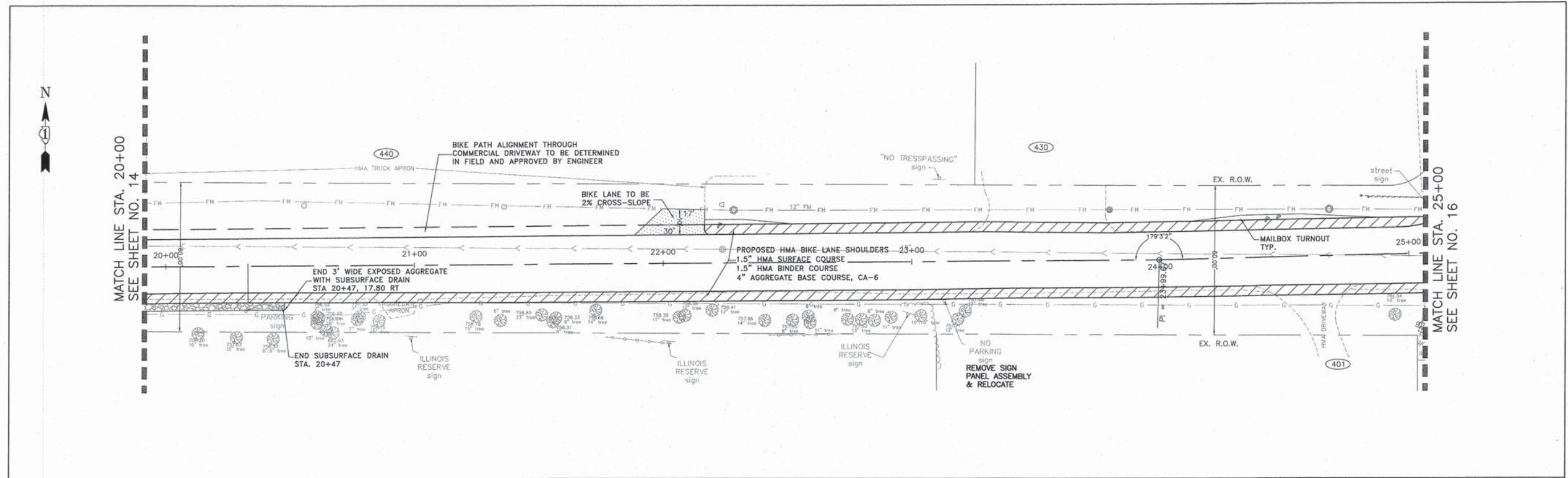
CONSULTING, INC.
 INFRACON GENCON
 CONSULTING ENGINEERS & LAND SURVEYORS
 1000 W. BROADWAY, SUITE 1000, CHICAGO, IL 60601

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
 WEGNER ROAD**
 SCALE: H: 1"=20' V: 1"=5'
 STA. 15+00 TO STA. 20+00

F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 19
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001997				



	756.7 760.01	756.8 759.95	757.3 759.90	758.2 759.85	759.9 759.79	759.1 759.74	759.0 759.69	759.1 759.63	759.3 759.58	759.9 759.52	760.6 759.47	
	20+00		21+00		22+00		23+00		24+00		25+00	

CONSULTING, INC.
INFRACON
 CONSULTING ENGINEERS & LAND SURVEYORS
 1000 W. WASHINGTON ST., SUITE 200, CHICAGO, IL 60606

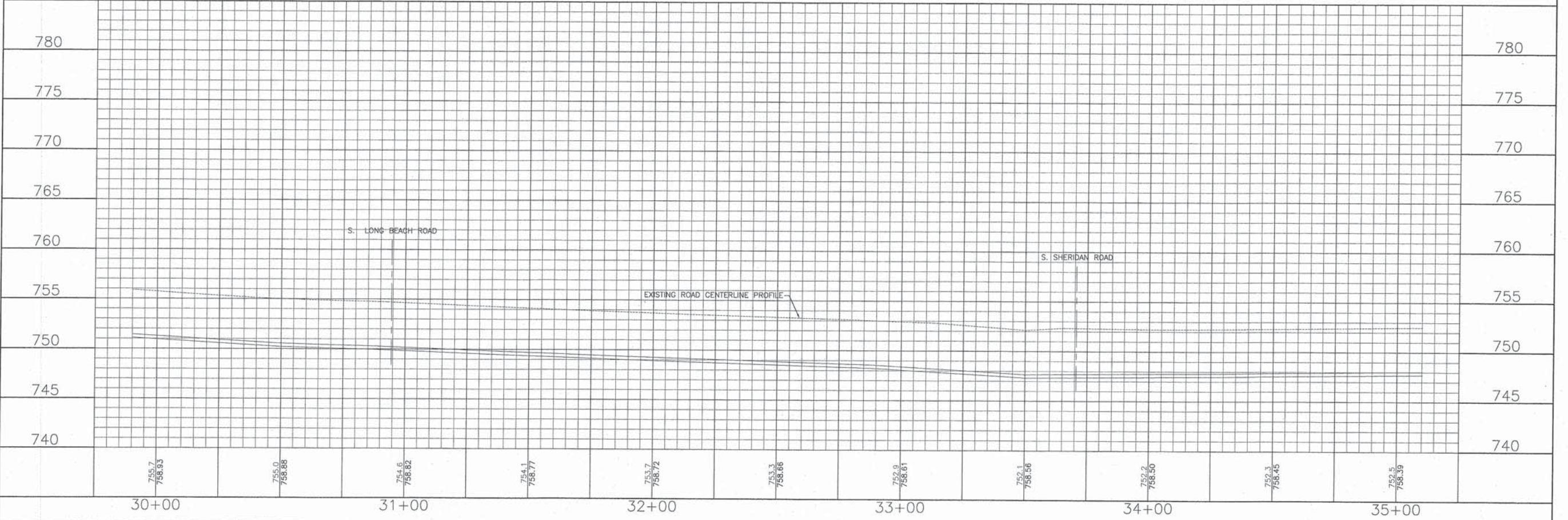
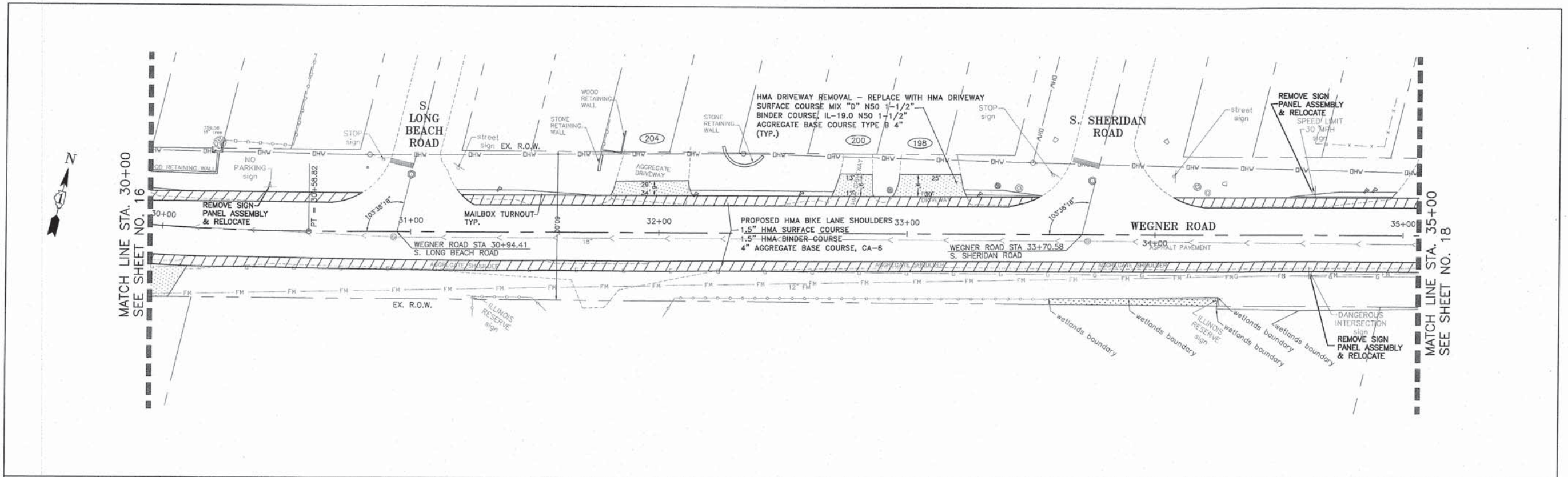
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
WEGNER ROAD

SCALE: H: 1"=20' V: 1"=5'
 STA. 20+00 TO STA. 25+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	20
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

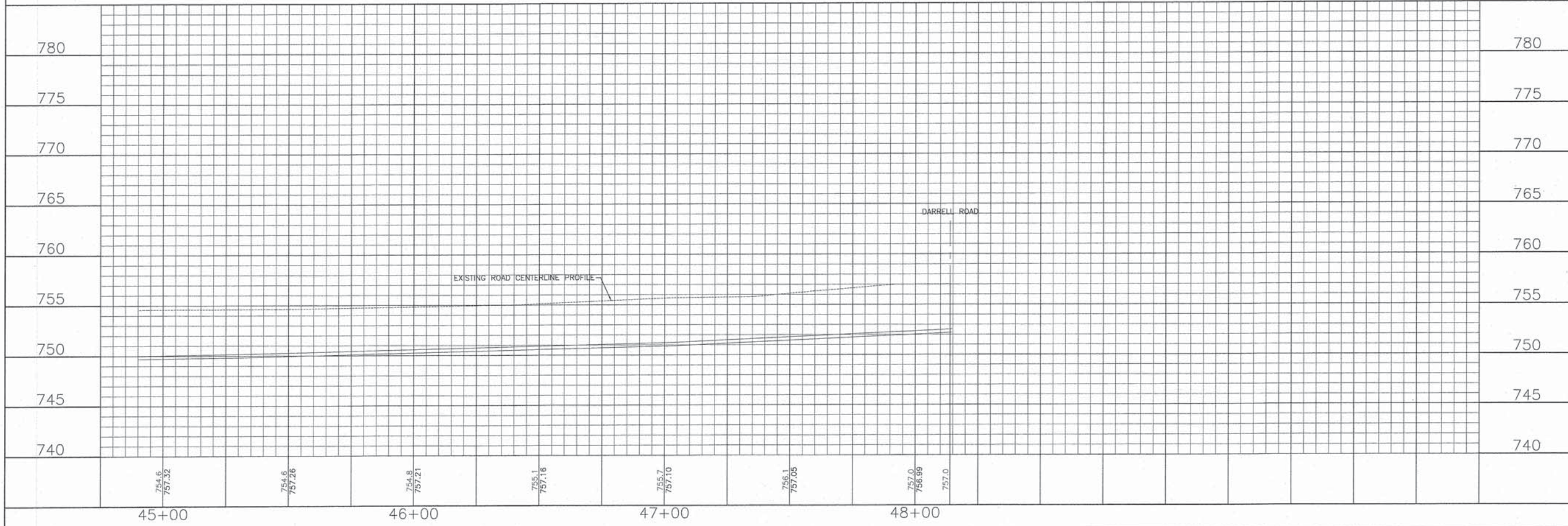
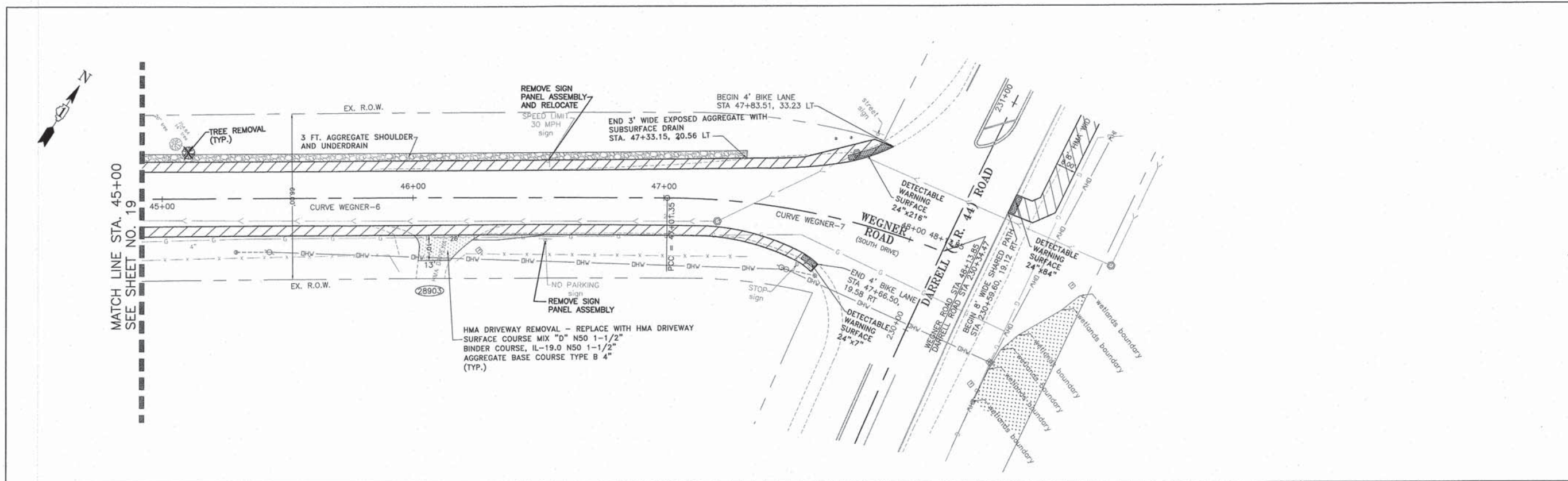
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
WEGNER ROAD**

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

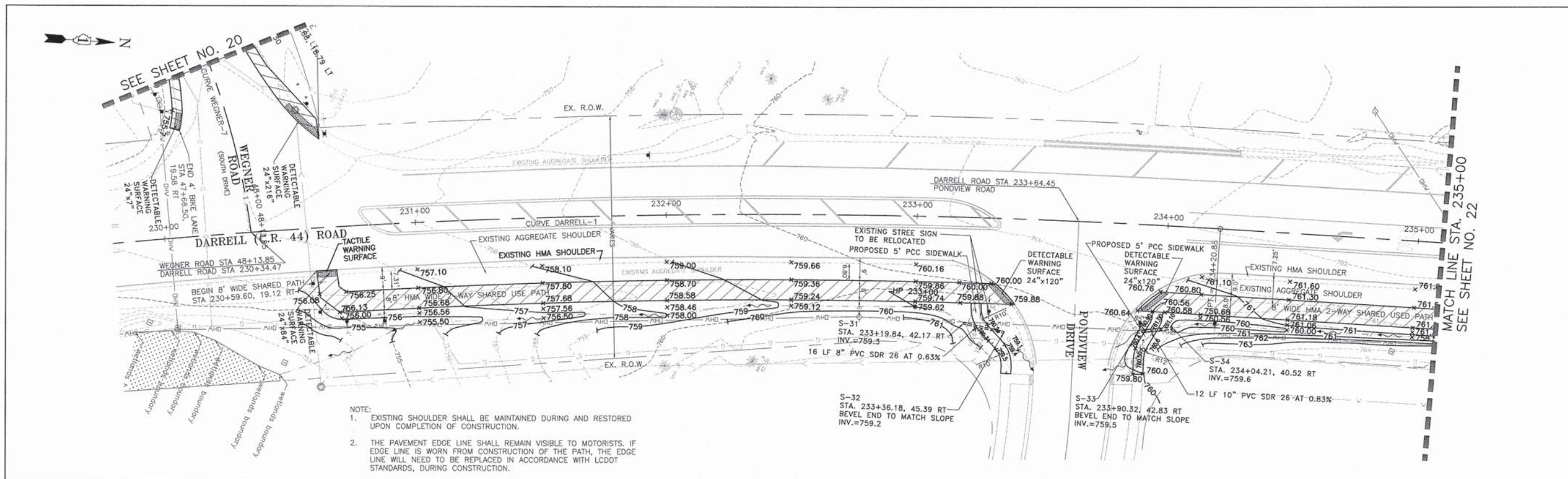
STA. 30+00 TO STA. 35+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	22
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

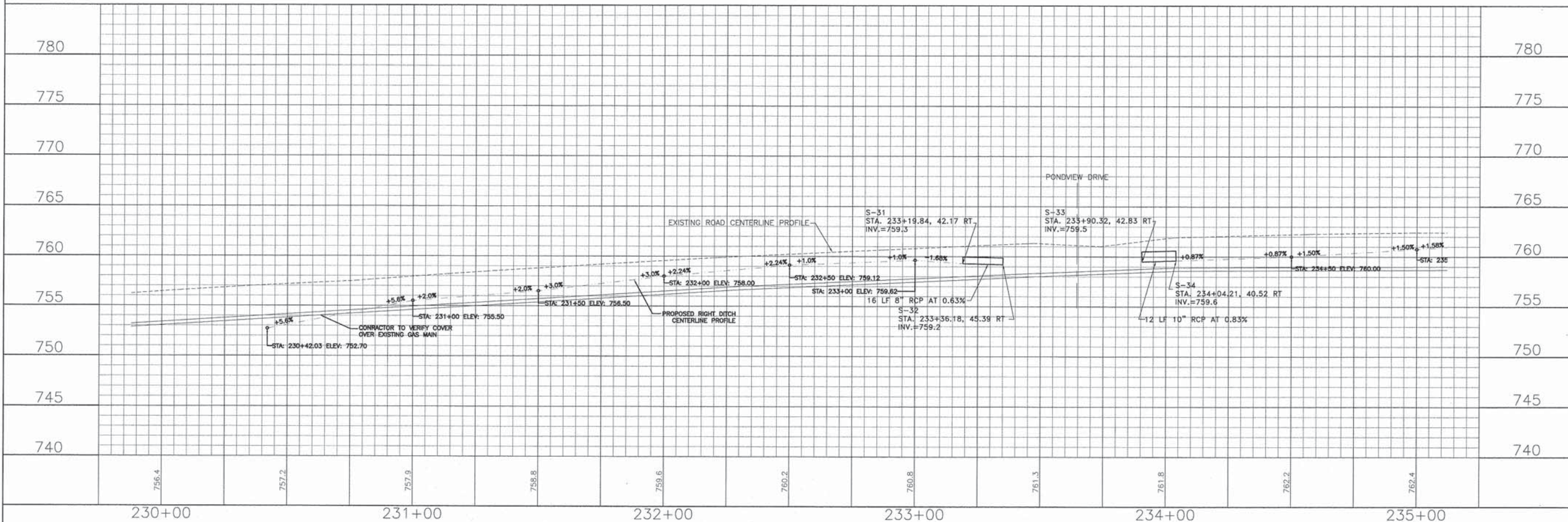


CONSULTING, INC. <small>INFRACON GEOTECH CONSULTING CORP. DIVISION OF LAND SURVEYING</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE WEGNER ROAD	F.A.U. STA. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 25
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			C-91-209-15	CONTRACT NO. 61C28			
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS							

SCALE: H: 1"=20' V: 1"=5' STA. 45+00 TO STA. 48+13.85



- NOTE:
1. EXISTING SHOULDER SHALL BE MAINTAINED DURING AND RESTORED UPON COMPLETION OF CONSTRUCTION.
 2. THE PAVEMENT EDGE LINE SHALL REMAIN VISIBLE TO MOTORISTS. IF EDGE LINE IS WORN FROM CONSTRUCTION OF THE PATH, THE EDGE LINE WILL NEED TO BE REPLACED IN ACCORDANCE WITH LCDOT STANDARDS, DURING CONSTRUCTION.



756.4	757.2	757.9	758.8	759.6	760.2	760.8	761.3	761.8	762.2	762.4
230+00	231+00	232+00	233+00	234+00	235+00					

CONSULTING, INC.
INFRACON GROUP
 CONSULTING ENGINEERS & LAND SURVEYORS
 1100 WEST WASHINGTON, SUITE 1000, CHICAGO, IL 60604-4202
 TEL: (312) 420-0000 FAX: (312) 420-0001
 WWW.INFRACON.COM

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE
 DARRELL ROAD**

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

STA. 230+00 TO STA. 235+00

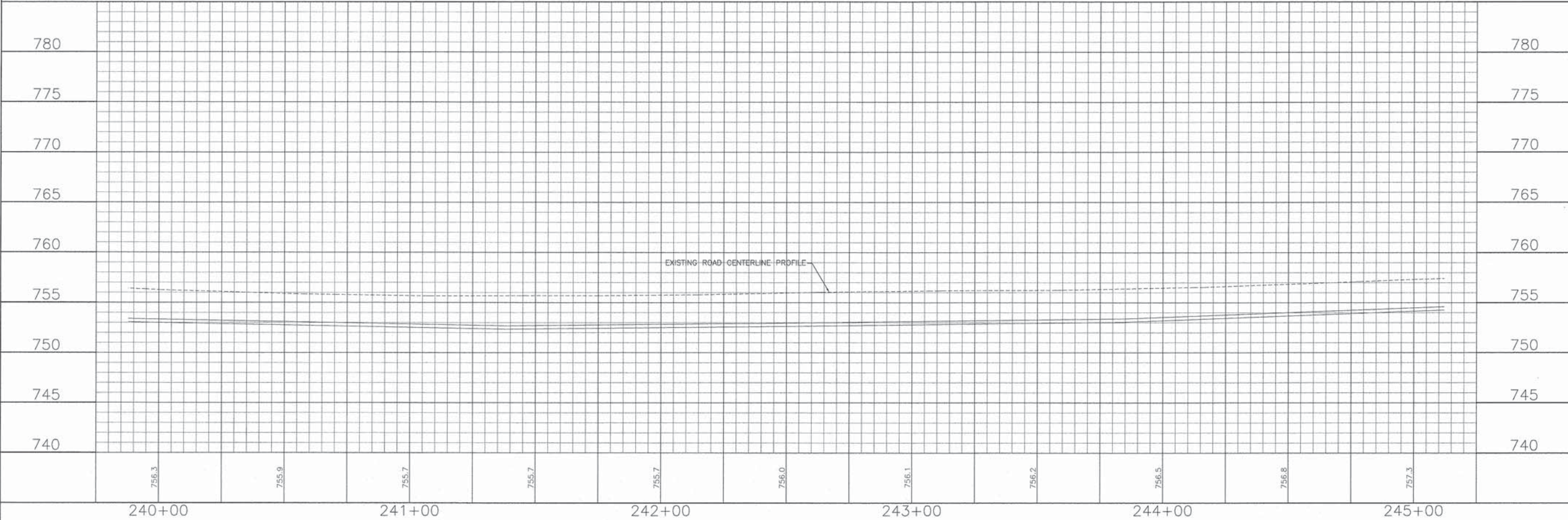
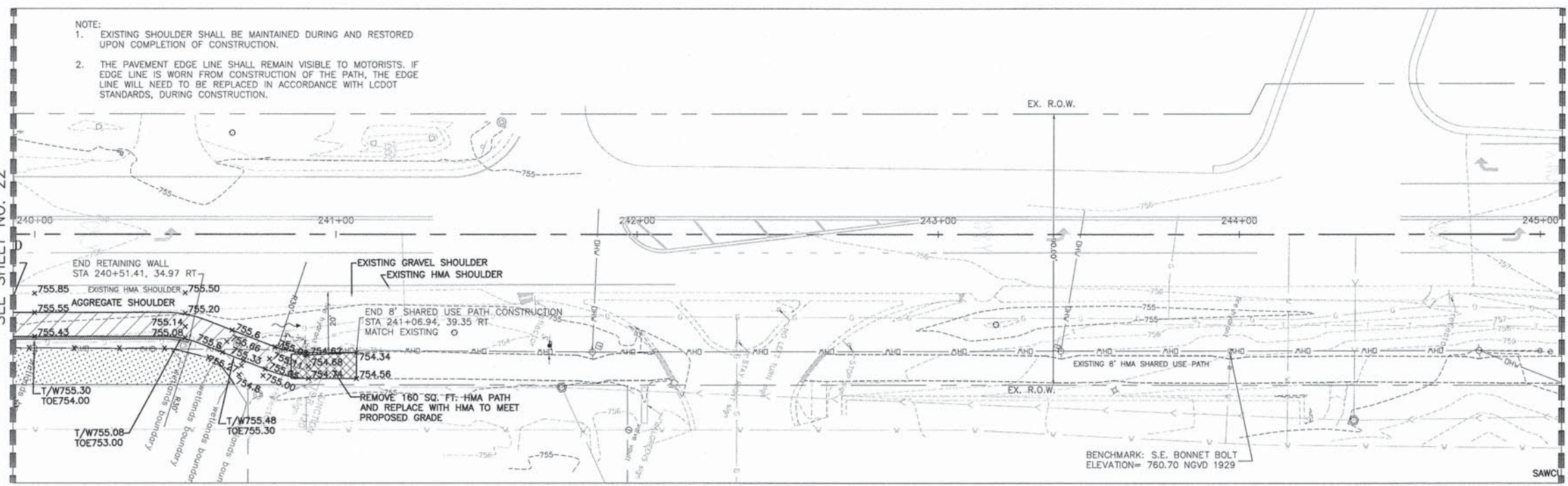
F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	26
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



- NOTE:
- EXISTING SHOULDER SHALL BE MAINTAINED DURING AND RESTORED UPON COMPLETION OF CONSTRUCTION.
 - THE PAVEMENT EDGE LINE SHALL REMAIN VISIBLE TO MOTORISTS. IF EDGE LINE IS WORN FROM CONSTRUCTION OF THE PATH, THE EDGE LINE WILL NEED TO BE REPLACED IN ACCORDANCE WITH LCDOT STANDARDS, DURING CONSTRUCTION.

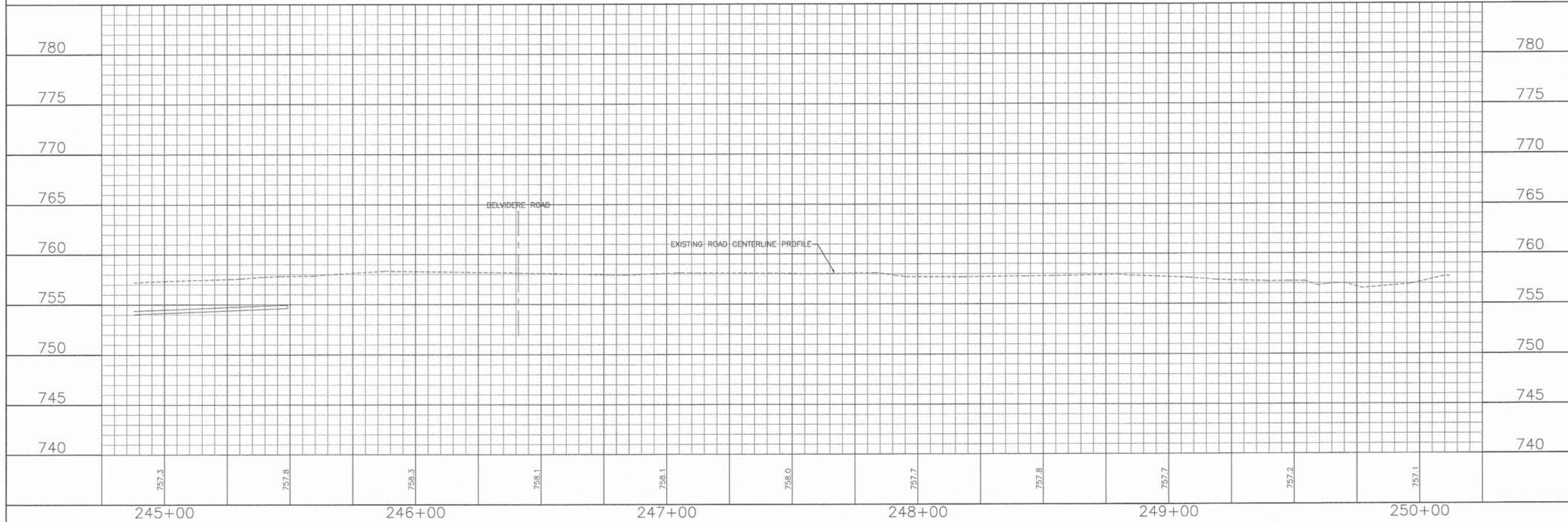
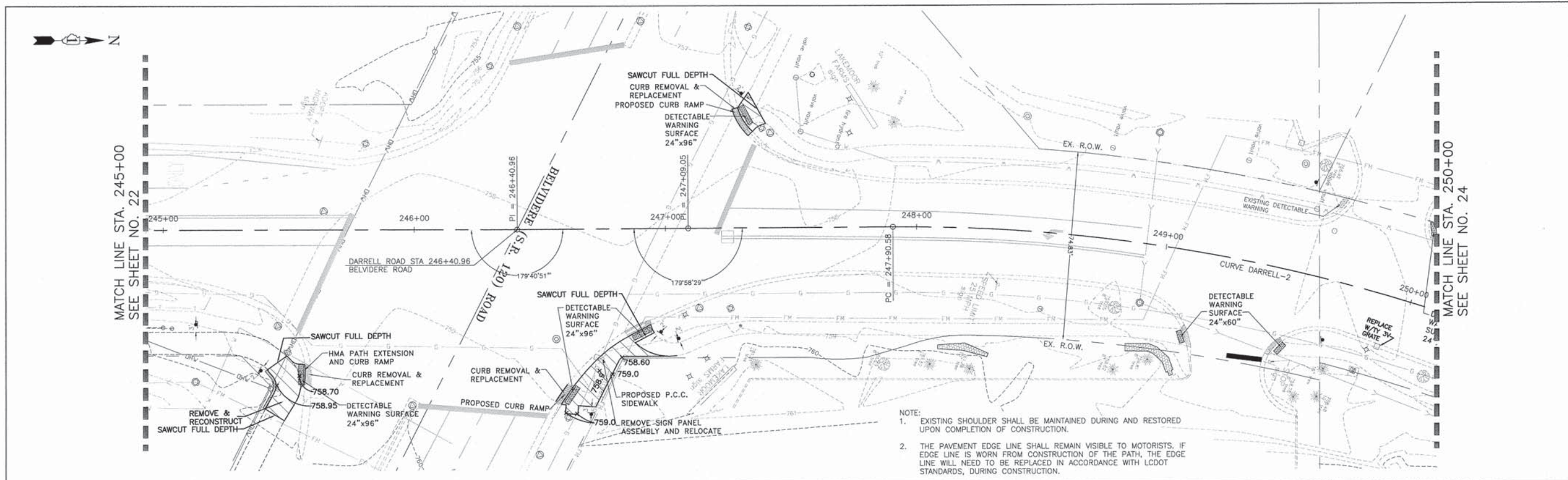
MATCH LINE STA. 240+00
SEE SHEET NO. 22

MATCH LINE STA. 245+00
SEE SHEET NO. 24



	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE DARRELL ROAD	F.A.U. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			0012	14-00011-00-BT	MCHENRY	104	28
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			C-91-209-15 CONTRACT NO. 61C28				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

SCALE: H: 1"=20' V: 1"=5' STA. 240+00 TO STA. 245+00



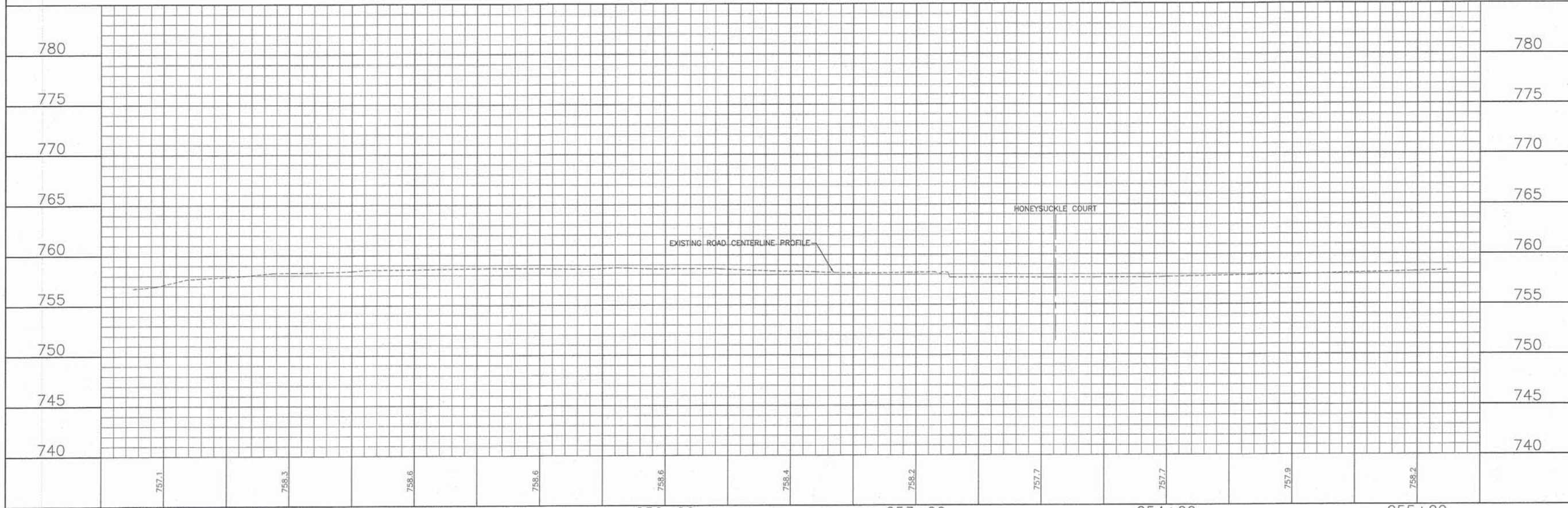
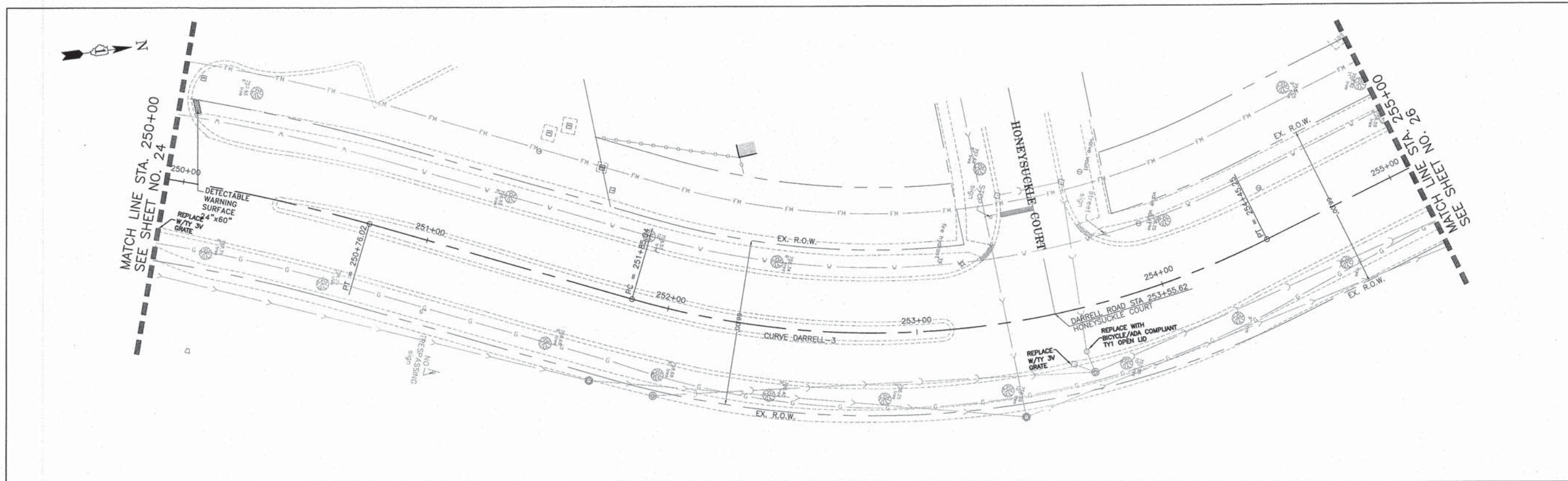
CONSULTING, INC. <small>INFRACON GENCON</small> <small>CONSULTING ENGINEERS & ARCHITECTS</small> <small>300 NORTH WASHINGTON STREET, SUITE 200, CHICAGO, ILLINOIS 60610</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
DARRELL ROAD

SCALE: H: 1"=20' V: 1"=5' STA. 245+00 TO STA. 250+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	29
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



757.1	758.3	758.6	758.6	758.6	758.4	758.2	757.7	757.7	757.9	758.2
250+00	251+00	252+00	253+00	254+00	255+00					

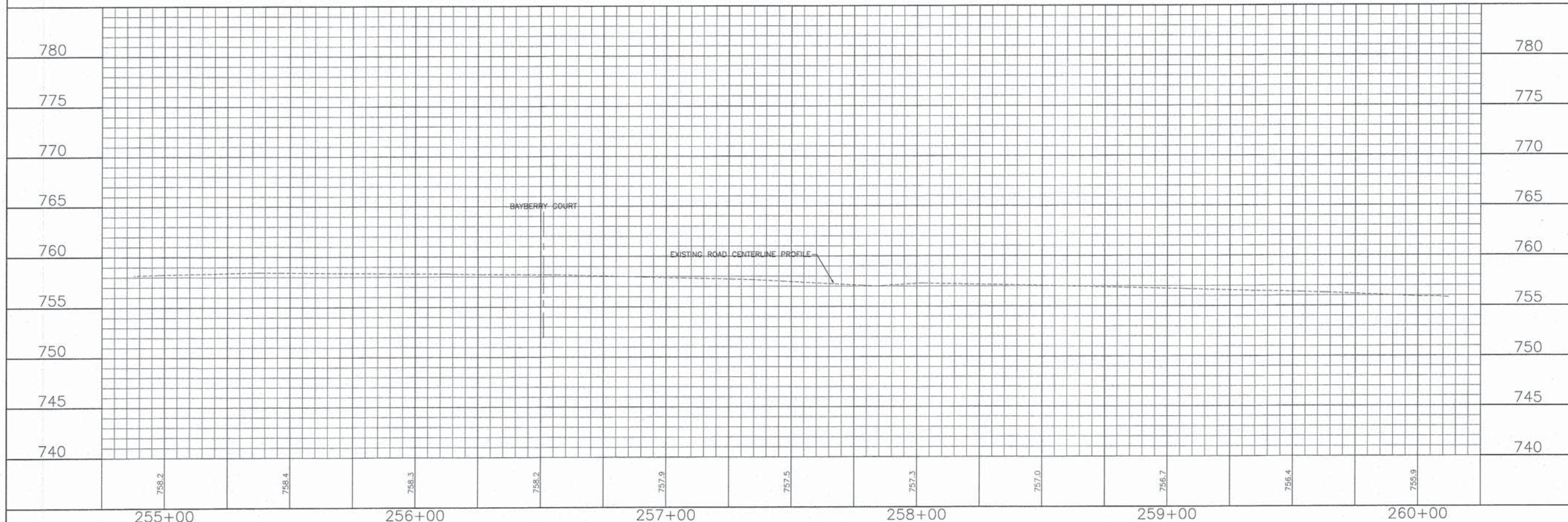
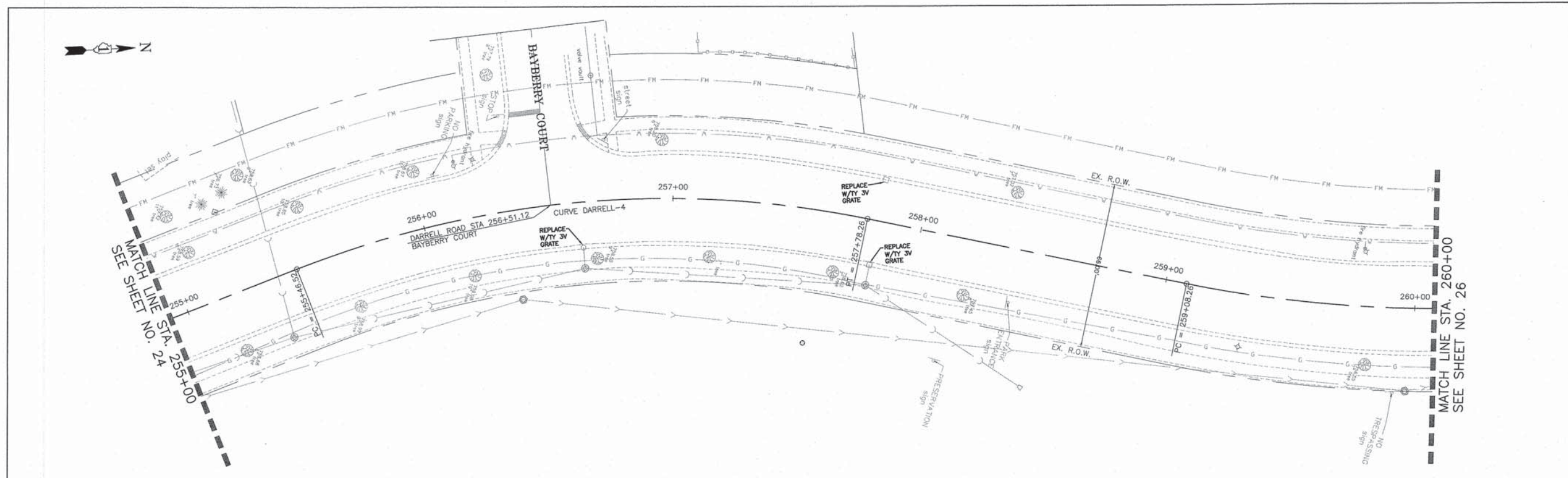
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

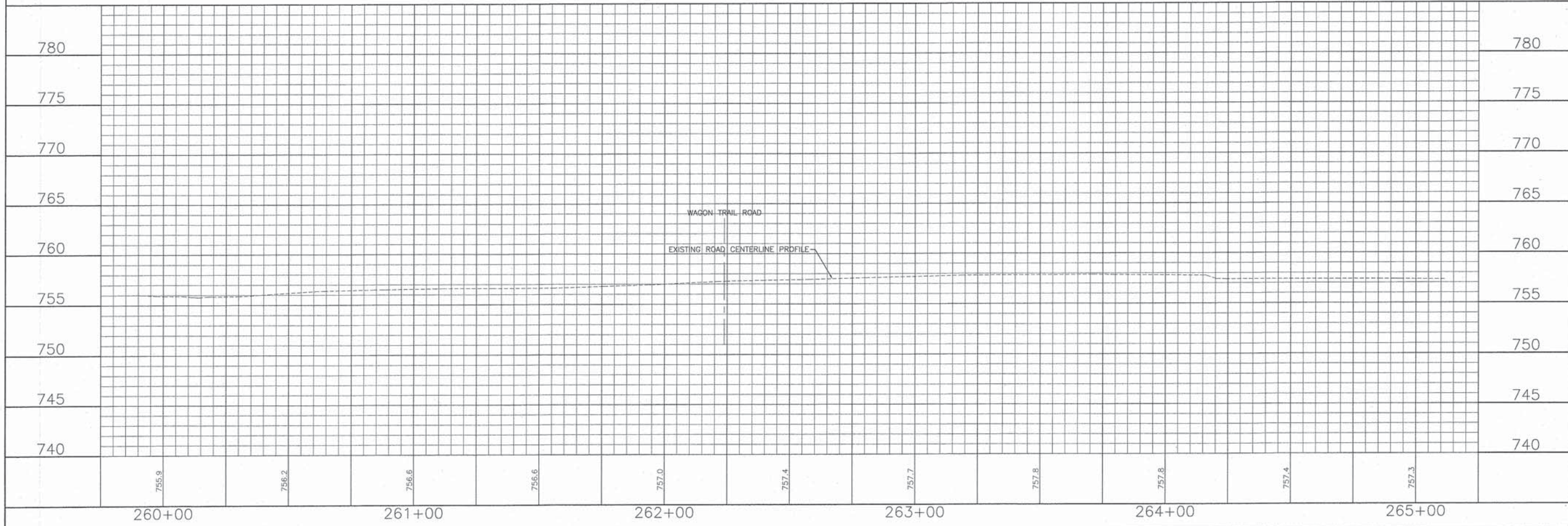
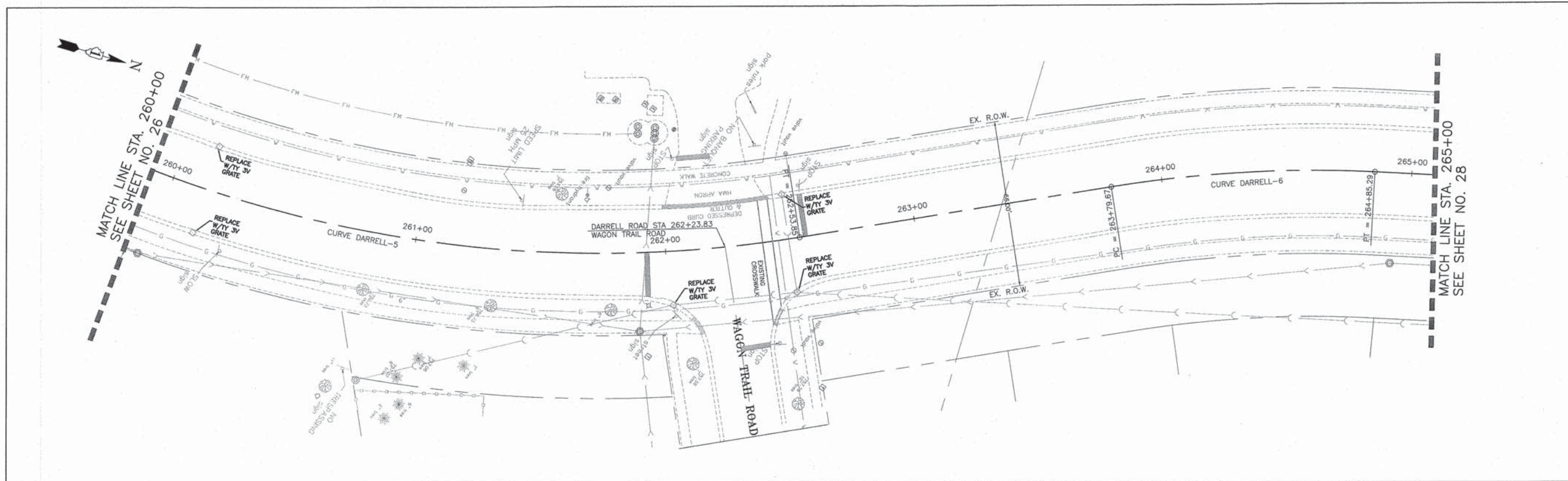
**PLAN AND PROFILE
DARRELL ROAD**

SCALE: H: 1"=20' V: 1"=5' STA. 250+00 TO STA. 255+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	30
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(097)				



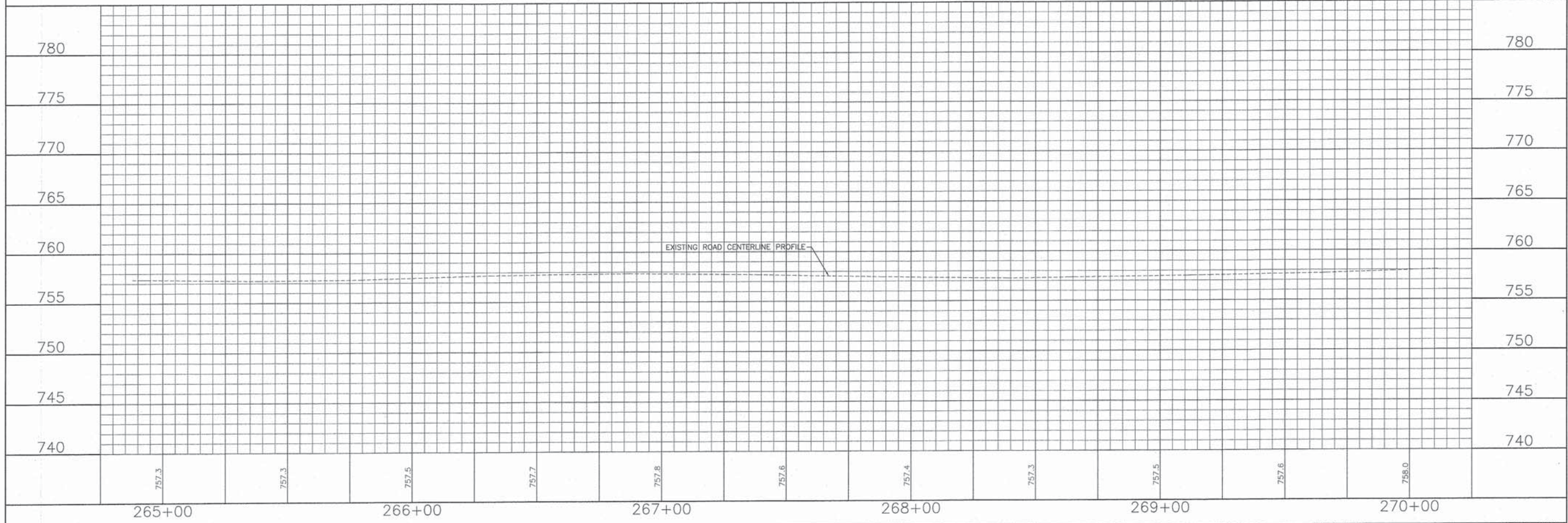
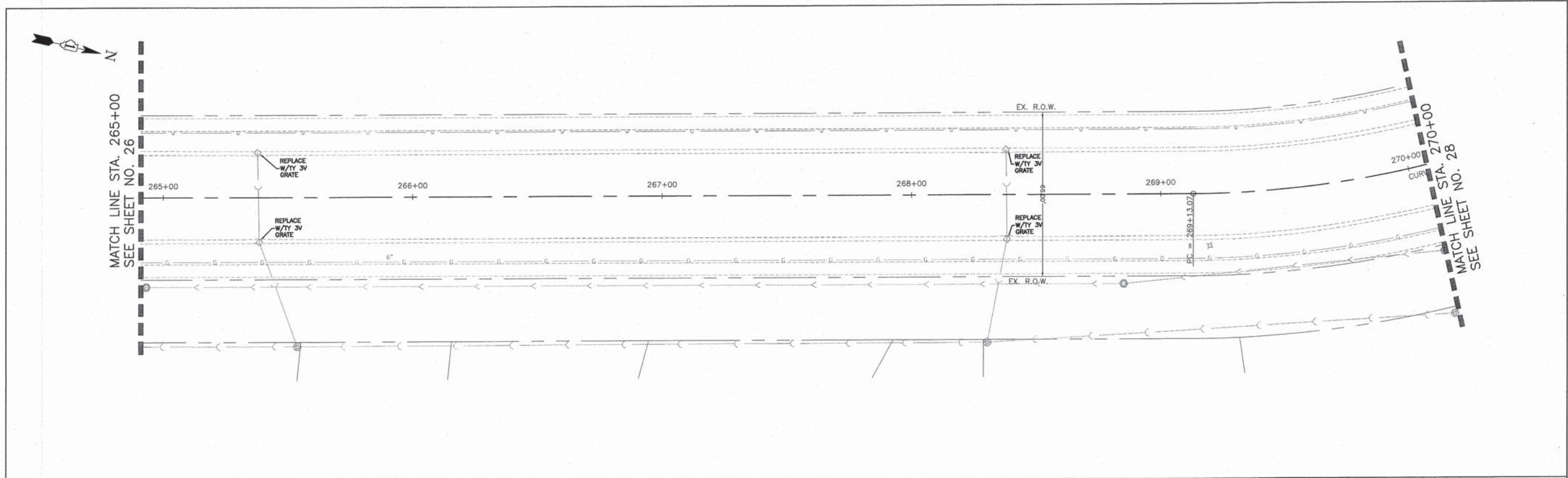
CONSULTING, INC. <small>INFRACON GENCON CONSULTING AND ENGINEERING</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE DARRELL ROAD	F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			0012	14-00011-00-BT	MCHENRY	104	31	
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			C-91-209-15		CONTRACT NO. 61C28			
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS			FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT TE-0001(997)			



CONSULTING, INC. <small>INFRACON GEOTECH CONSULTING & LAND SURVEYING</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

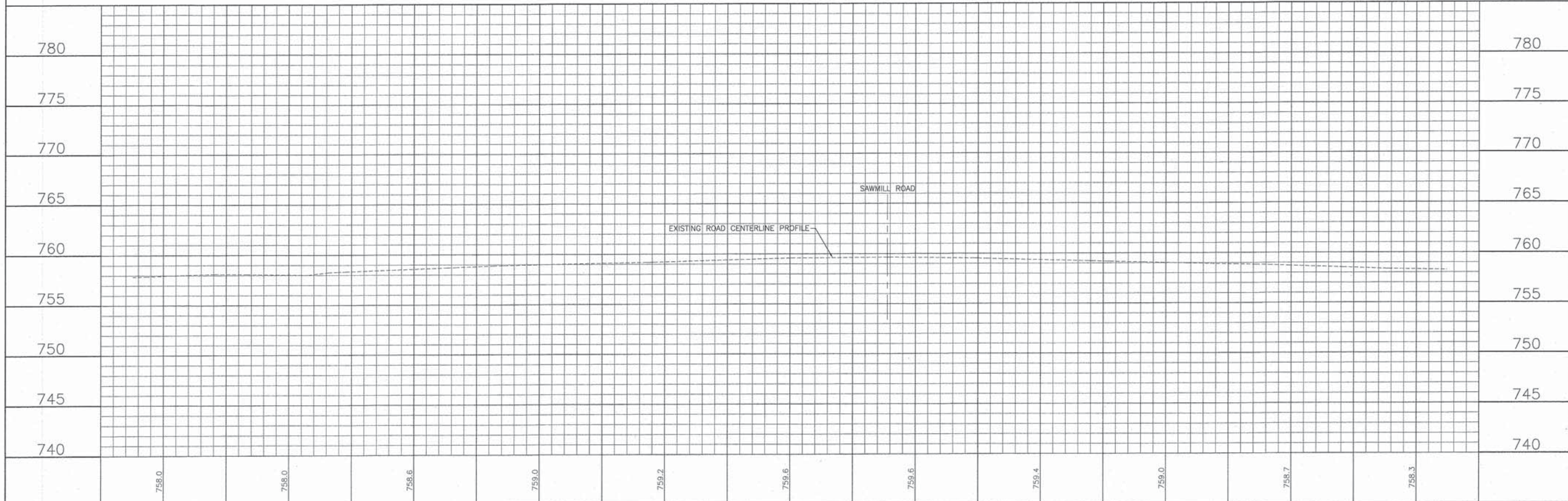
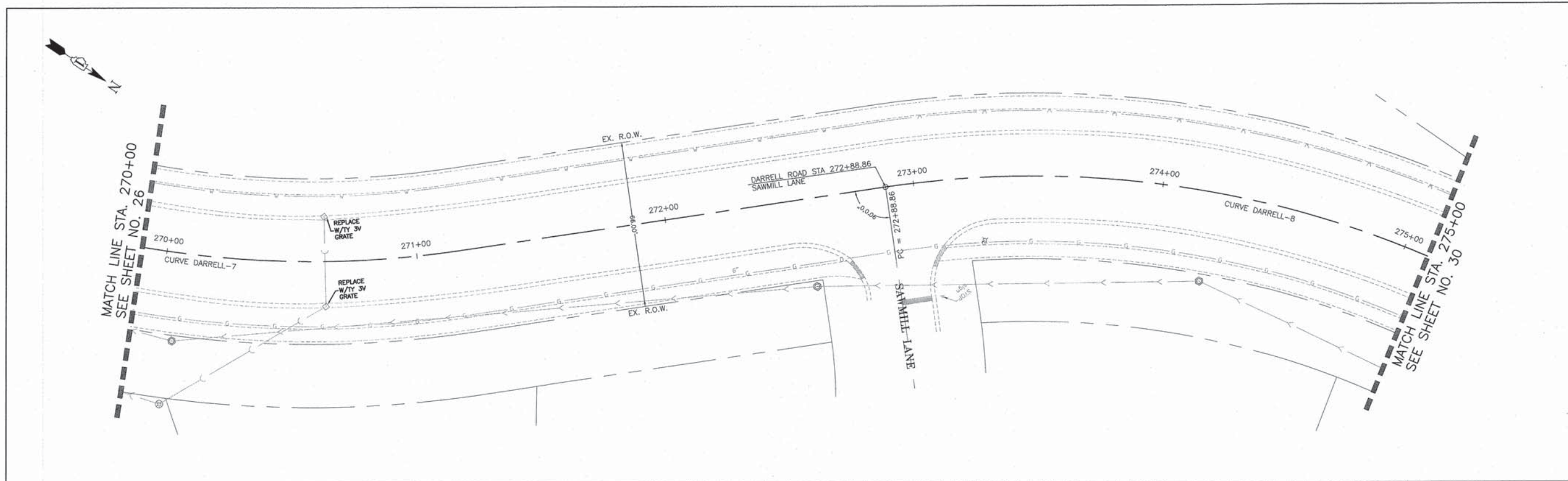
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE		F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 32
SCALE: H: 1"=20' V: 1"=5'		STA. 260+00 TO STA. 265+00		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)						

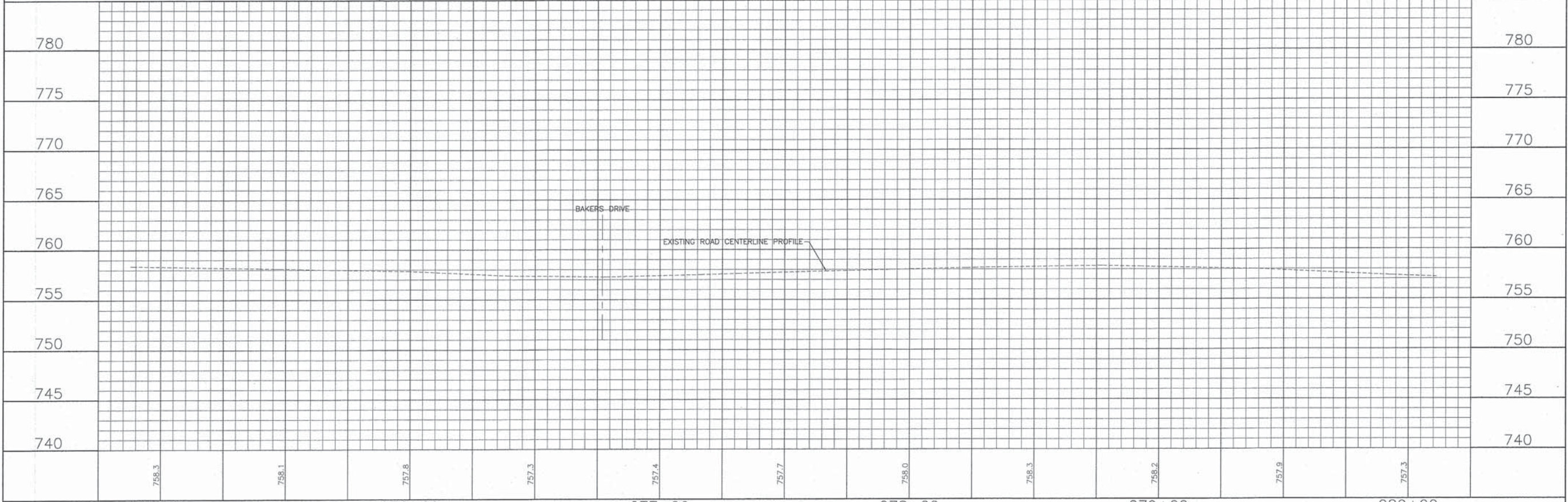
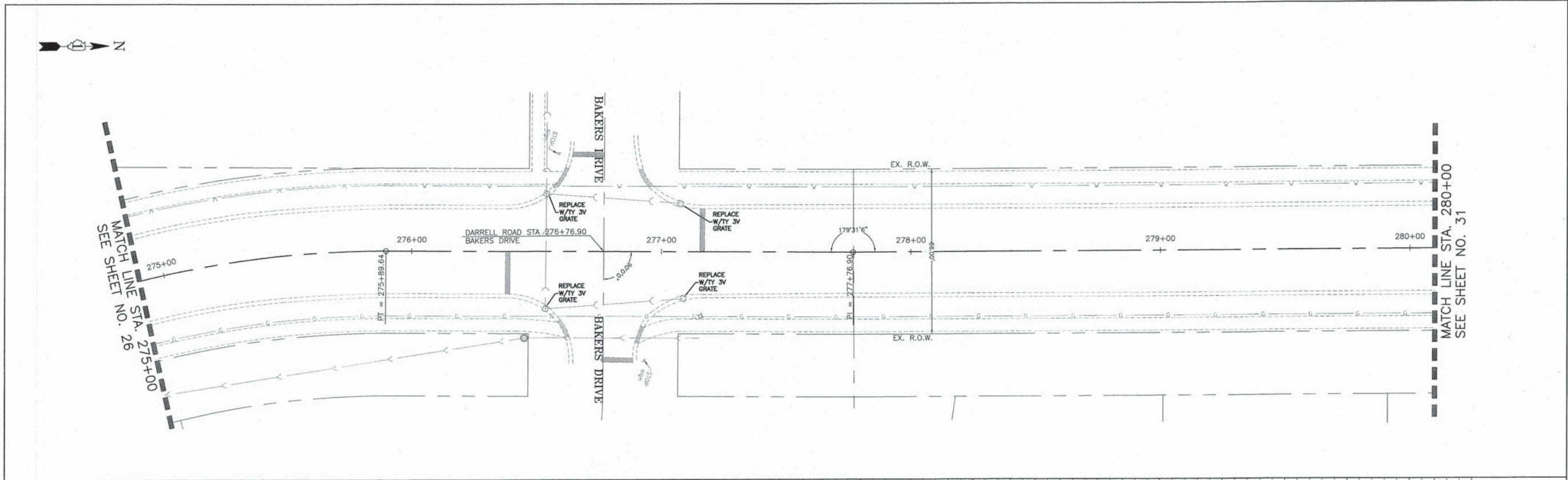


CONSULTING, INC. <small>INFRACON GEORCON</small> <small>CONSULTING ENGINEERS & LAND SURVEYORS</small> <small>1000 N. WASHINGTON ST. SUITE 200 CHICAGO, IL 60610</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE DARRELL ROAD	F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 33
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			C-91-209-15	CONTRACT NO. 61C28			
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS							

SCALE: H: 1"=20' V: 1"=5' STA. 265+00 TO STA. 270+00



		DESIGNED - C.K. DRAWN - S.R.M. CHECKED - J.K. DATE - 07/21/15	REVISED - 10/09/15 IDOT SUBMITTAL REVISED - 12/07/15 FINAL PLANS REVISED - 12/29/15 IDOT REVIEW REVISED - 01/29/16 FINAL PLANS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN AND PROFILE DARRELL ROAD		F.A.U. STE. 0012 C-91-209-15 FED. ROAD DIST. NO. 1 ILLINOIS	SECTION 14-00011-00-BT COUNTY MCHENRY CONTRACT NO. 61C28 FED. AID PROJECT TE-001(997)	TOTAL SHEETS 104 SHEET NO. 34
SCALE: H: 1"=20' V: 1"=5'		STA. 270+00 TO STA. 275+00								



758.3	758.1	757.8	757.3	757.4	757.7	758.0	758.3	758.2	757.9	757.3	
275+00	276+00	277+00	278+00	279+00	280+00						

CONSULTING, INC.
 INFRACON GEOTECH CONSULTING, INC.
 CONSULTING ENGINEERS & LAND SURVEYORS
 1000 N. WASHINGTON ST., SUITE 200, CHICAGO, IL 60610

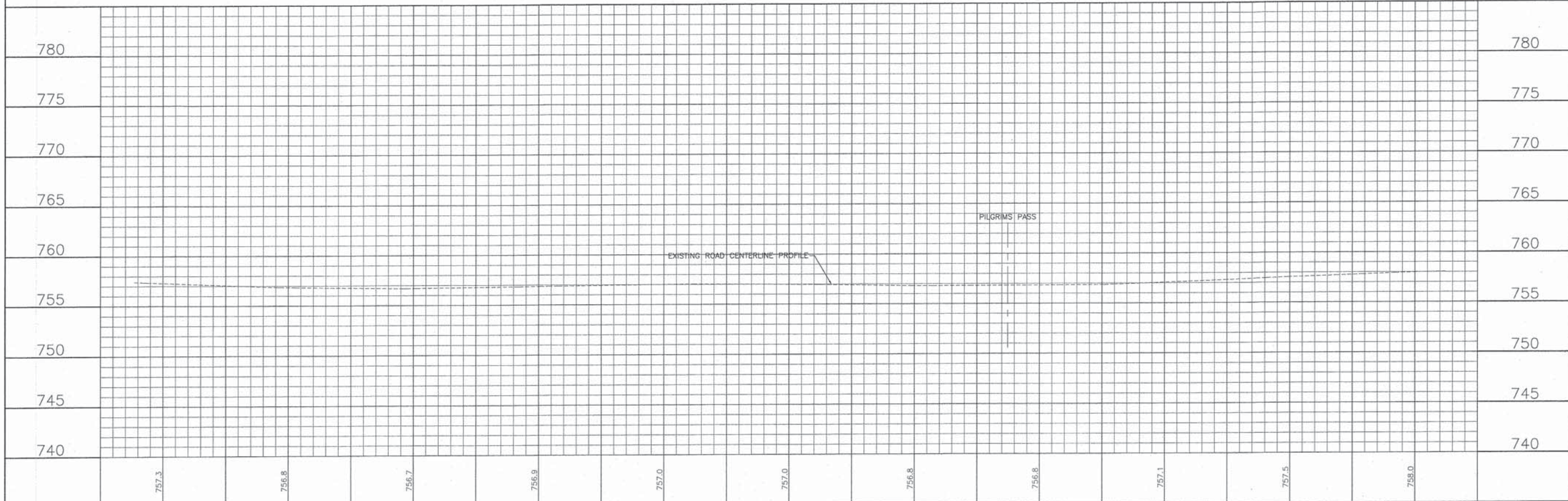
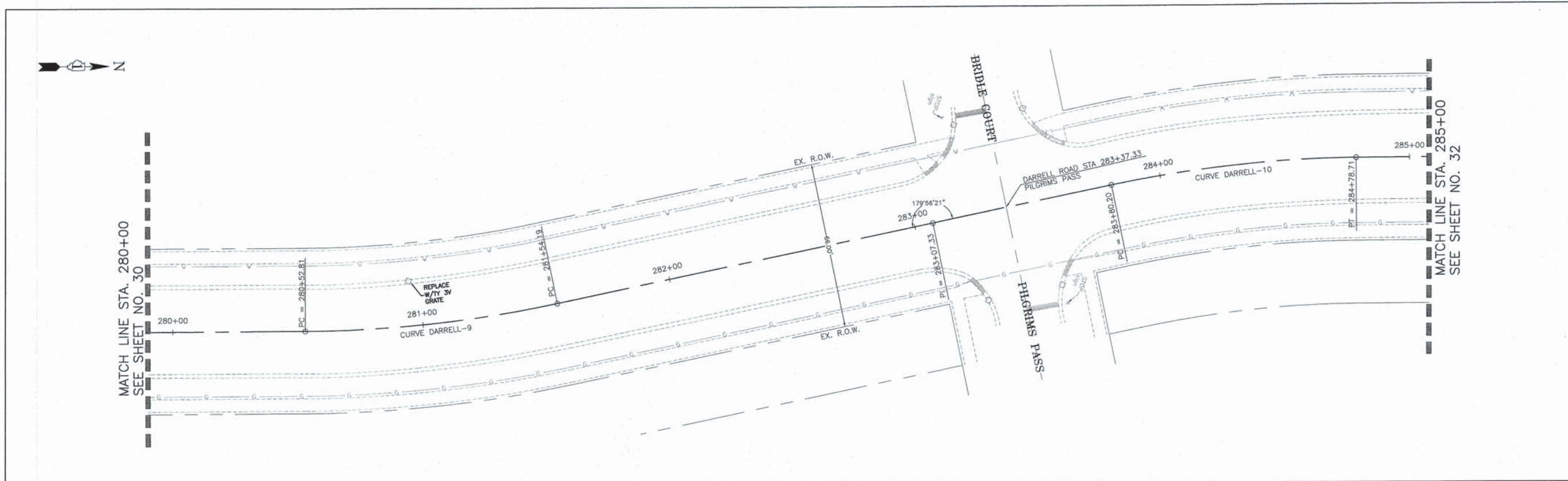
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

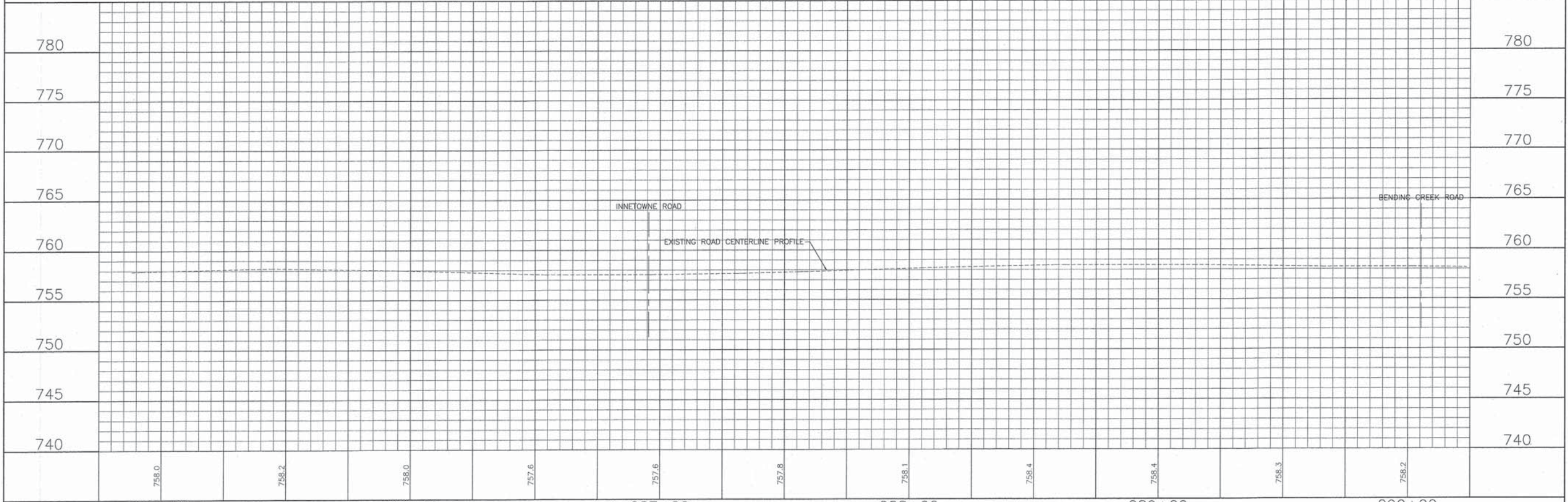
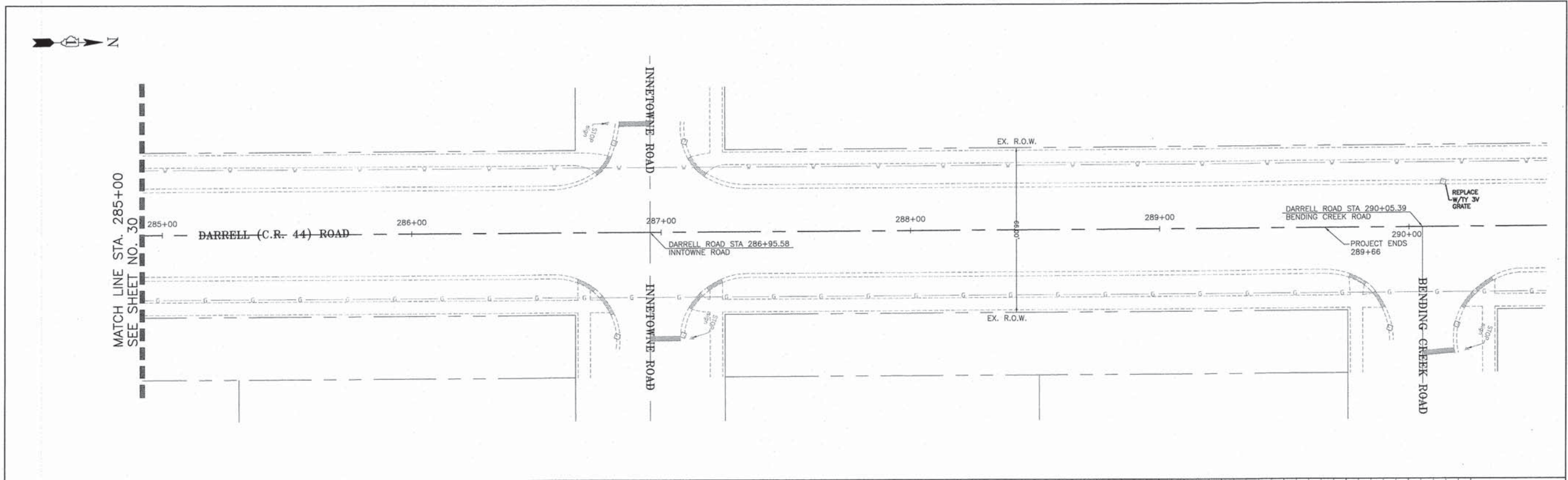
PLAN AND PROFILE
DARRELL ROAD

SCALE: H: 1"=20' V: 1"=5' STA. 275+00 TO STA. 280+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	35
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				



		DESIGNED - C.K. DRAWN - S.R.M. CHECKED - J.K. DATE - 07/21/15	REVISED - 10/09/15 IDOT SUBMITTAL REVISED - 12/07/15 FINAL PLANS REVISED - 12/29/15 IDOT REVIEW REVISED - 01/29/16 FINAL PLANS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN AND PROFILE DARRELL ROAD		F.A.U. STE. 0012 C-91-209-15 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1(997)	SECTION 14-00011-00-BT COUNTY MCHENRY CONTRACT NO. 61C28	TOTAL SHEETS 104 SHEETS NO. 36
SCALE: H: 1"=20' V: 1"=5'		STA. 280+00 TO STA. 285+00								



CONSULTING, INC. <small>INFRACON GEACON</small> <small>CONSULTING ENGINEERS & LAND SURVEYORS</small> <small>1000 WEST WASHINGTON STREET, SUITE 200, CHICAGO, ILLINOIS 60606</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE DARRELL ROAD	F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 37
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			C-91-209-15	CONTRACT NO. 61C28			
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1(997)				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS							

SCALE: H: 1"=20' V: 1"=5' STA. 285+00 TO STA. 290+00

McHENRY COUNTY STANDARD SOIL EROSION AND SEDIMENT CONTROL NOTES

1. CONTROL MEASURES SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL (WWW.AISWCD.ORG/IUM) UNLESS STATED OTHERWISE.
2. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.
3. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
4. STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
5. NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.
6. OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.
7. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
8. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED BELOW:
 - A. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; AND
 - B. IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
9. DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKED IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE.
10. PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
11. THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
12. IF DEWATERING SERVICES ARE USED, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP OR AN EQUIVALENT CONTROL MEASURE). THE ENFORCEMENT OFFICER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
13. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION OF THE DEVELOPMENT SITE IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.
14. STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.
15. EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:
 - A. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER; AND
 - B. MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.
16. ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITING OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE APPLICANT SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
17. THE ENFORCEMENT OFFICER MAY REQUIRE ADDITIONAL OR ALTERNATE SOIL EROSION AND SEDIMENT CONTROL MEASURES, BASED ON DEVELOPMENT SITE SPECIFIC CONSIDERATIONS AND THE EFFECTIVENESS OF THE INSTALLED CONTROL MEASURES.

STANDARD DRAIN TILE NOTES

1. DRAIN TILES DISTURBED DURING REGULATED DEVELOPMENT SHALL BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE, UNLESS THE DEVELOPMENT PLANS SPECIFY ABANDONMENT OF THE DRAIN TILES.
2. ALL ABANDONED DRAIN TILES WITHIN DISTURBED AREAS SHALL BE REMOVED IN THEIR ENTIRETY.
3. DRAIN TILES WITHIN THE DISTURBED AREA OF A DEVELOPMENT SITE SHALL BE REPLACED, BYPASSED AROUND THE DEVELOPMENT SITE OR INTERCEPTED AND CONNECTED TO THE STORMWATER MANAGEMENT SYSTEM FOR THE DEVELOPMENT SITE. THE SIZE OF THE REPLACED OR BYPASSED DRAIN TILE SHALL BE EQUIVALENT TO THE EXISTING DRAIN TILE.

LAKE COUNTY STORMWATER MANAGEMENT COMMISSION SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES

- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
 - AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA?1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- I. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
- M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.



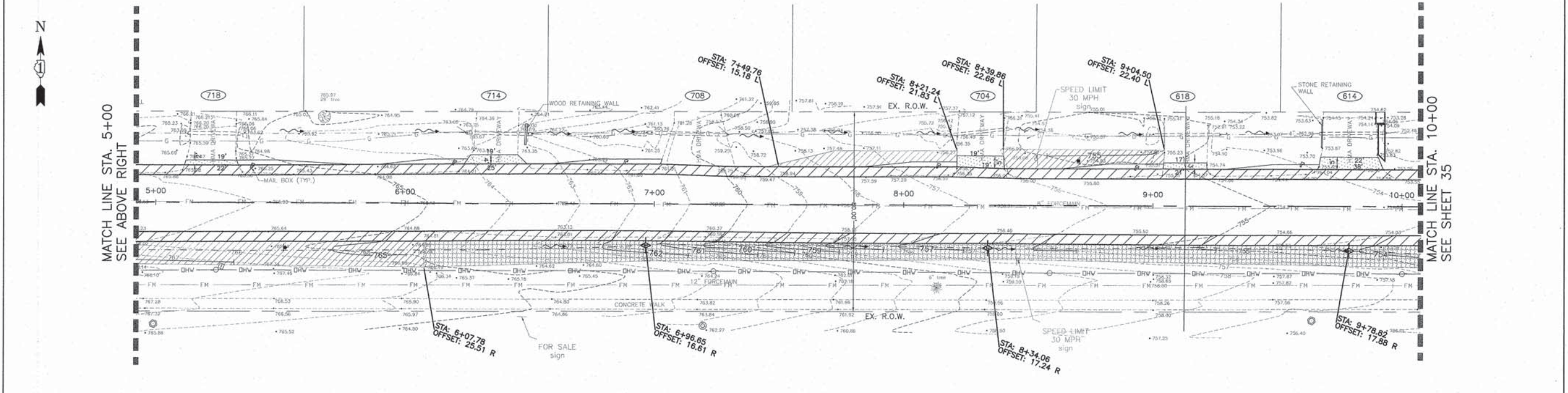
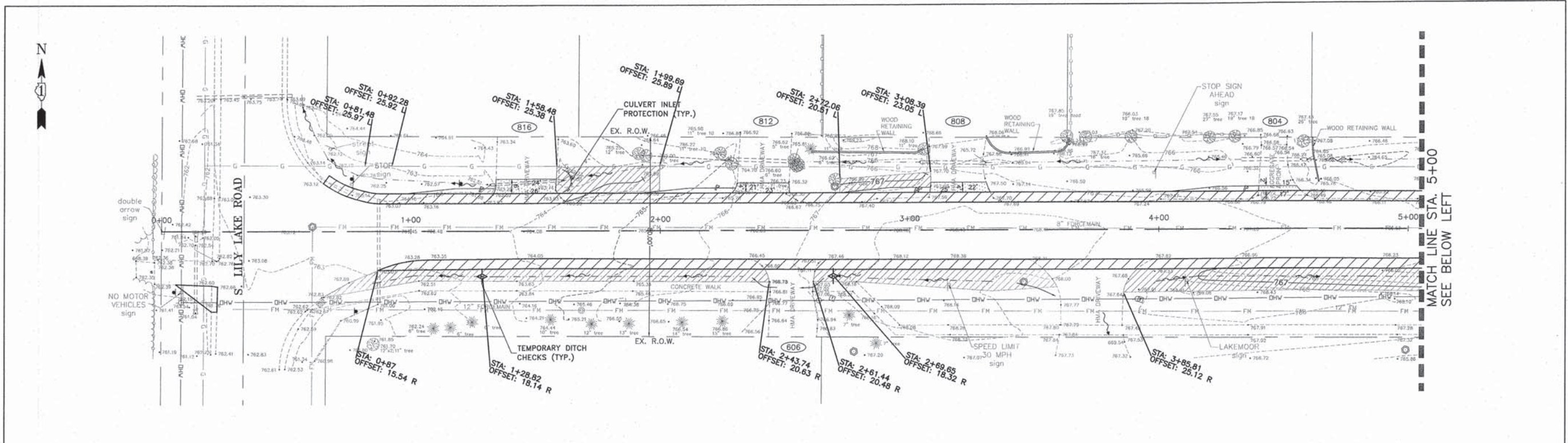
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DRAWN -- S.R.M.	REVISED -- 12/07/15 FINAL PLANS
CHECKED -- J.K.	REVISED -- 12/29/15 IDOT REVIEW
DATE -- 07/21/15	REVISED -- 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL NOTES

SCALE: N/A STA. 229+00 TO STA. 253+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	McHENRY	104	38
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				



EROSION CONTROL LEGEND:

	PERIMETER EROSION BARRIER		SEEDING, CLASS "3" N. SLOPE MIX & WITH MULCH, METHOD 3A (SEE NOTE 3)
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)		SEEDING, CLASS 2A WITH MULCH, METHOD 3A
	TEMPORARY DITCH CHECK		SEEDING CLASS 4A WITH MULCH, METHOD 3A
	INLET FILTER		EXISTING WETLANDS (AVOID DISTURBANCE)
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 21 SALT TOLERANT ROAD SIDE MIX		

- 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 BY THE MANUFACTURER.

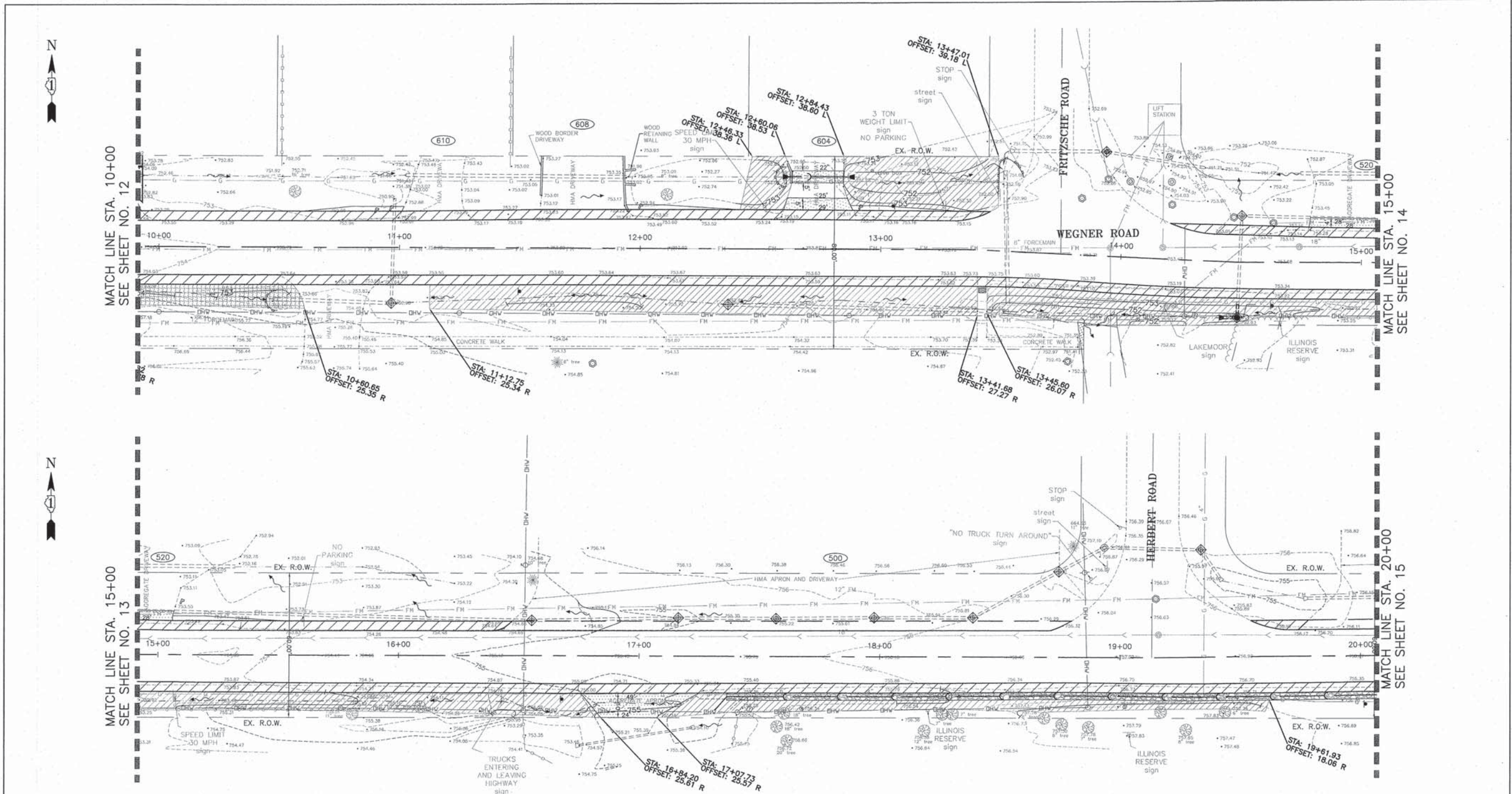
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DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN
WEGNER ROAD

SCALE: 1"=20'
STA. 0+00 TO STA. 10+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	39
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1997				



MATCH LINE STA. 10+00
SEE SHEET NO. 12

MATCH LINE STA. 15+00
SEE SHEET NO. 14

MATCH LINE STA. 15+00
SEE SHEET NO. 13

MATCH LINE STA. 20+00
SEE SHEET NO. 15

EROSION CONTROL LEGEND:	
	PERIMETER EROSION BARRIER
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)
	TEMPORARY DITCH CHECK
	INLET FILTER
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 21 SALT TOLERANT ROAD SIDE MIX
	SEEDING, CLASS "3" N. SLOPE MIX & WITH MULCH, METHOD 3A (SEE NOTE 3)
	SEEDING, CLASS 2A WITH MULCH, METHOD 3A
	SEEDING CLASS 4A WITH MULCH, METHOD 3A
	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 BY THE MANUFACTURER.

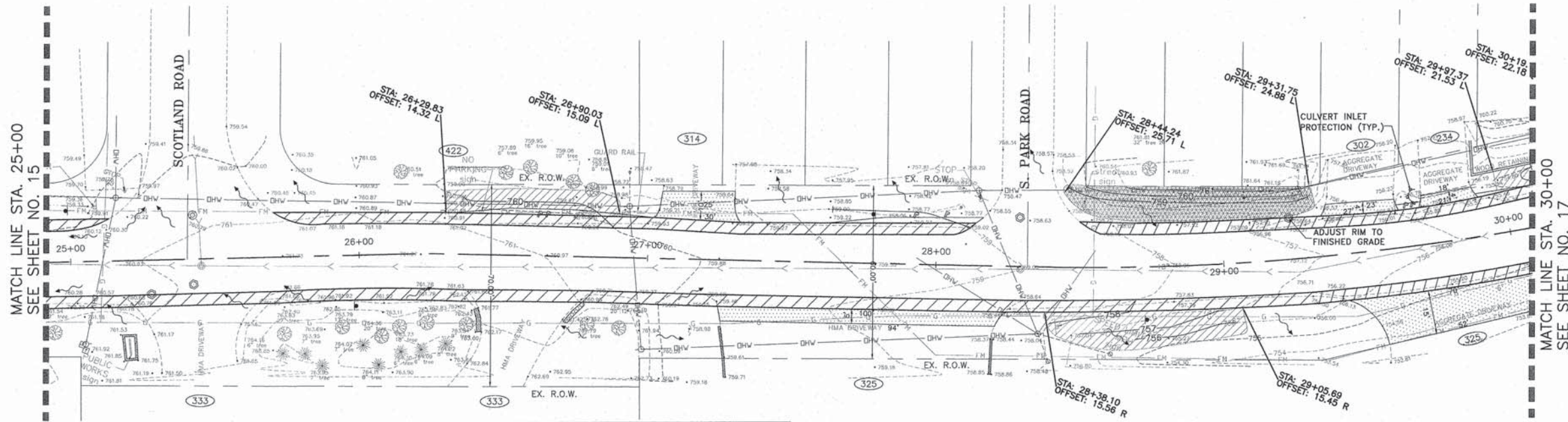
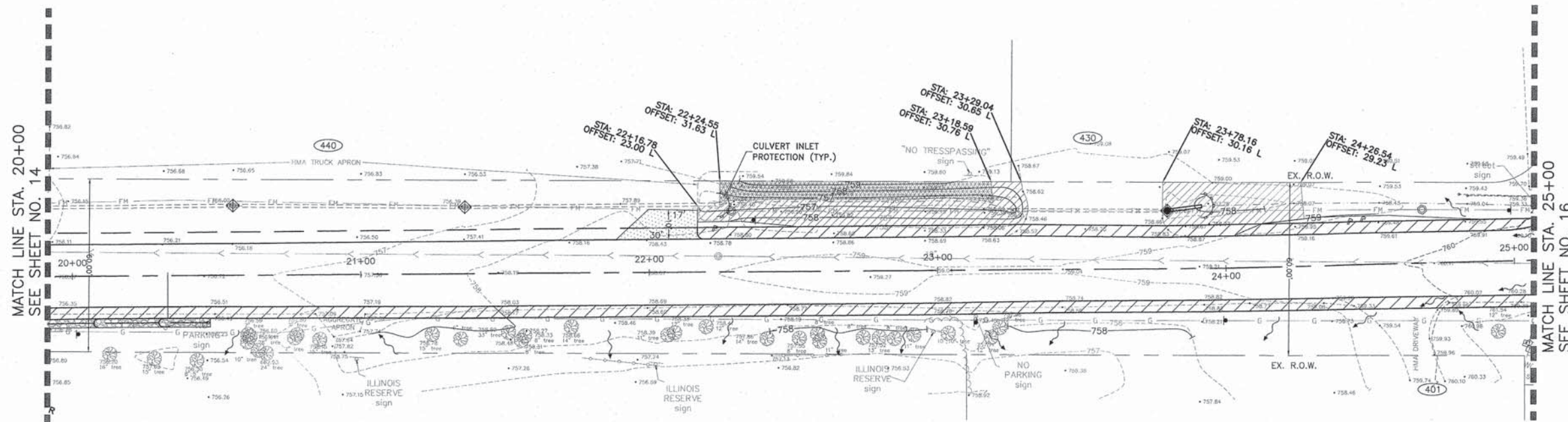
CONSULTING, INC.
INFRACON GENCON

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN
WEGNER ROAD
SCALE: 1"=20'
STA. 10+00 TO STA. 20+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	40
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



EROSION CONTROL LEGEND:	
	PERIMETER EROSION BARRIER
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)
	TEMPORARY DITCH CHECK
	INLET FILTER
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 21 SALT TOLERANT ROAD SIDE MIX
	SEEDING, CLASS "3" N. SLOPE MIX & WITH MULCH, METHOD 3A (SEE NOTE 3)
	SEEDING, CLASS 2A WITH MULCH, METHOD 3A
	SEEDING CLASS 4A WITH MULCH, METHOD 3A
	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 BY THE MANUFACTURER.

CONSULTING, INC.
 INFRACON GEBCON
 CONSULTING ENGINEERS & LAND SURVEYORS

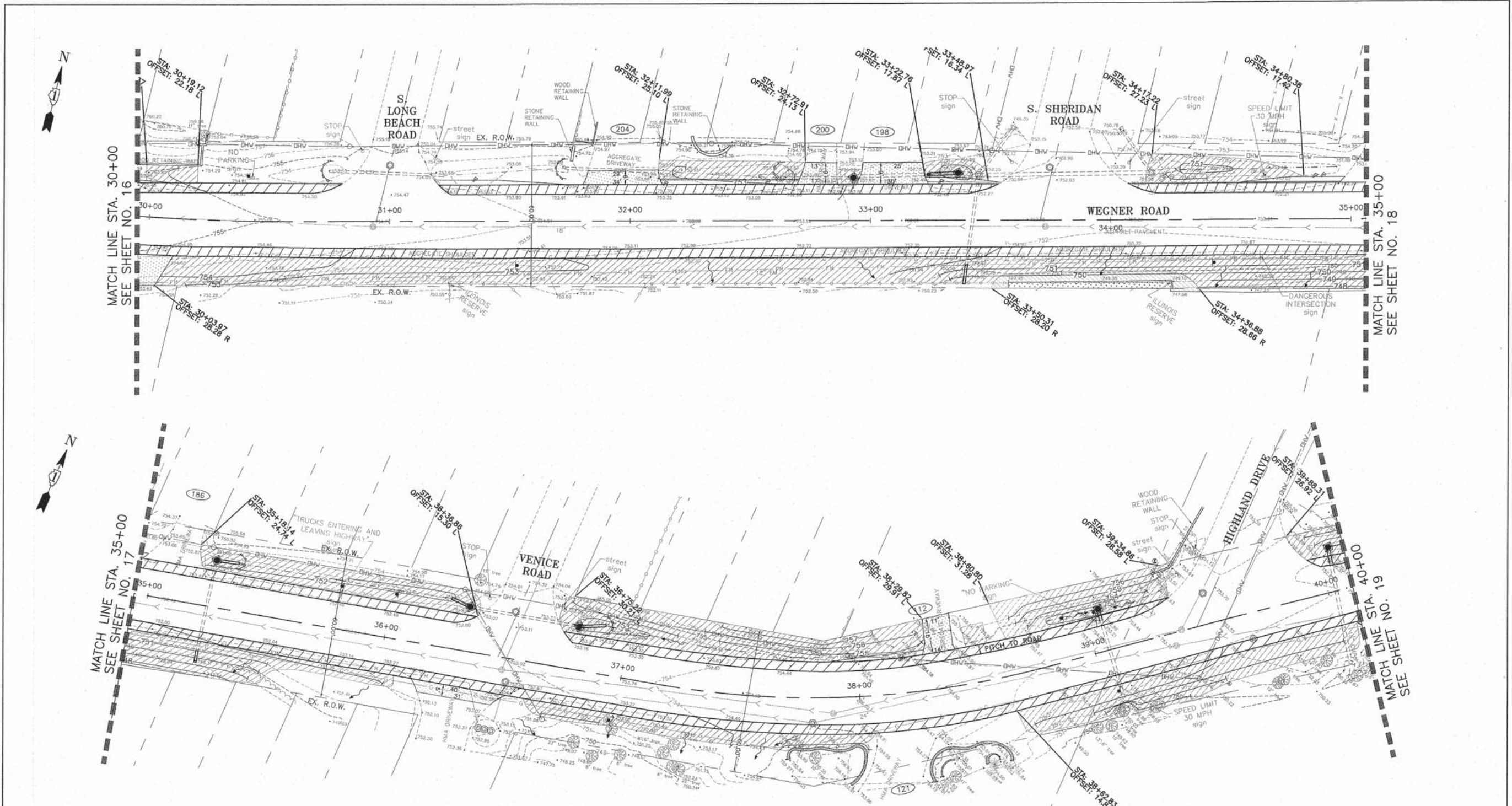
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN
WEGNER ROAD

SCALE: 1"=20'
 STA. 20+00 TO STA. 30+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	41
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				



MATCH LINE STA. 30+00
SEE SHEET NO. 16

MATCH LINE STA. 35+00
SEE SHEET NO. 18

MATCH LINE STA. 35+00
SEE SHEET NO. 17

MATCH LINE STA. 40+00
SEE SHEET NO. 19

EROSION CONTROL LEGEND:	
	PERIMETER EROSION BARRIER
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)
	TEMPORARY DITCH CHECK
	INLET FILTER
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 21 SALT TOLERANT ROAD SIDE MIX
	SEEDING, CLASS "3" N. SLOPE MIX & WITH MULCH, METHOD 3A (SEE NOTE 3)
	SEEDING, CLASS 2A WITH MULCH, METHOD 3A
	SEEDING CLASS 4A WITH MULCH, METHOD 3A
	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 BY THE MANUFACTURER.

CONSULTING, INC.
INFRACON GEBSON
CONSULTING ENGINEERS & LAND SURVEYORS

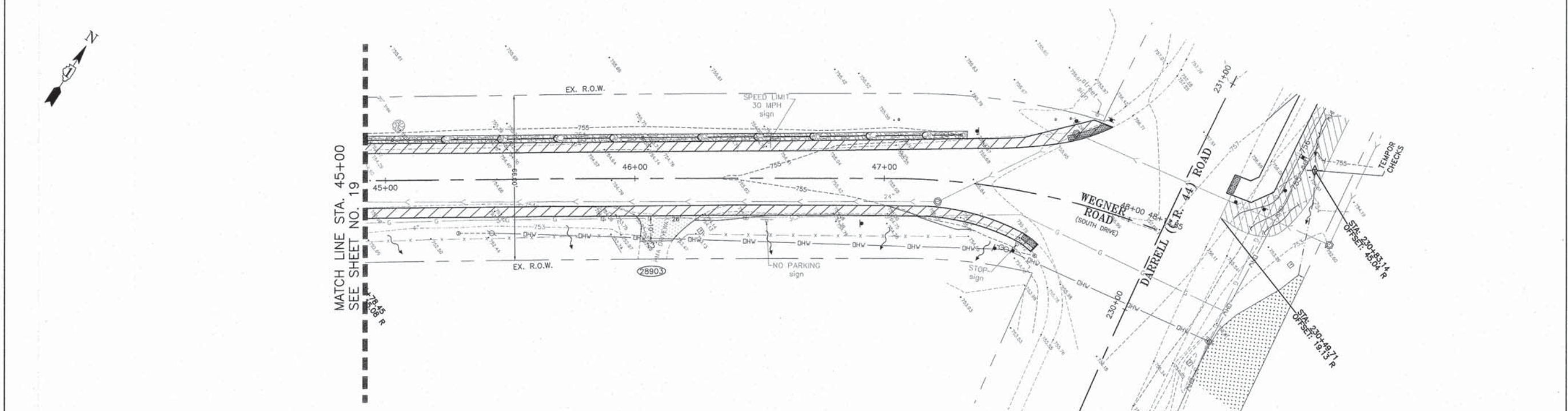
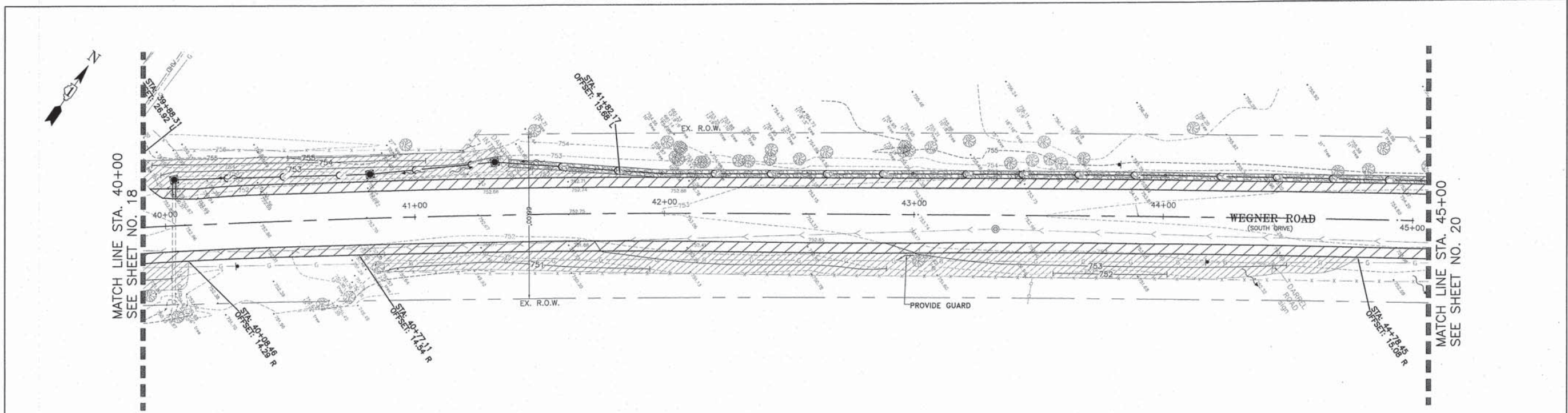
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
WEGNER ROAD**

SCALE: 1"=20'
STA. 30+00 TO STA. 40+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	42
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



EROSION CONTROL LEGEND:	
	PERIMETER EROSION BARRIER
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)
	TEMPORARY DITCH CHECK
	INLET FILTER
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 21 SALT TOLERANT ROAD SIDE MIX
	SEEDING, CLASS "3" N. SLOPE MIX & WITH MULCH, METHOD 3A (SEE NOTE 3)
	SEEDING, CLASS 2A WITH MULCH, METHOD 3A
	SEEDING CLASS 4A WITH MULCH, METHOD 3A
	EXISTING WETLANDS (AVOID DISTURBANCE)

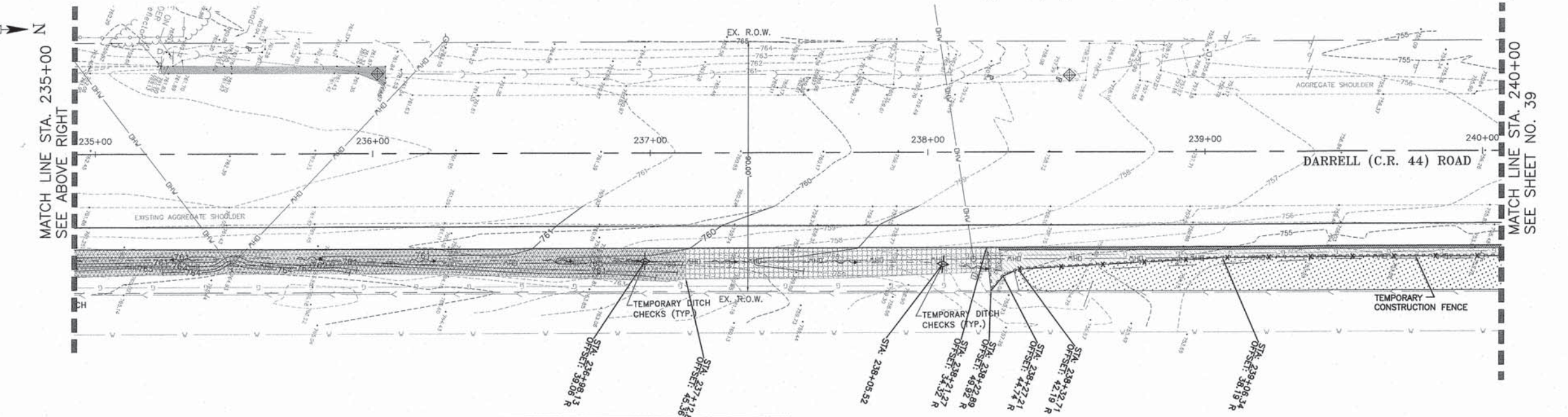
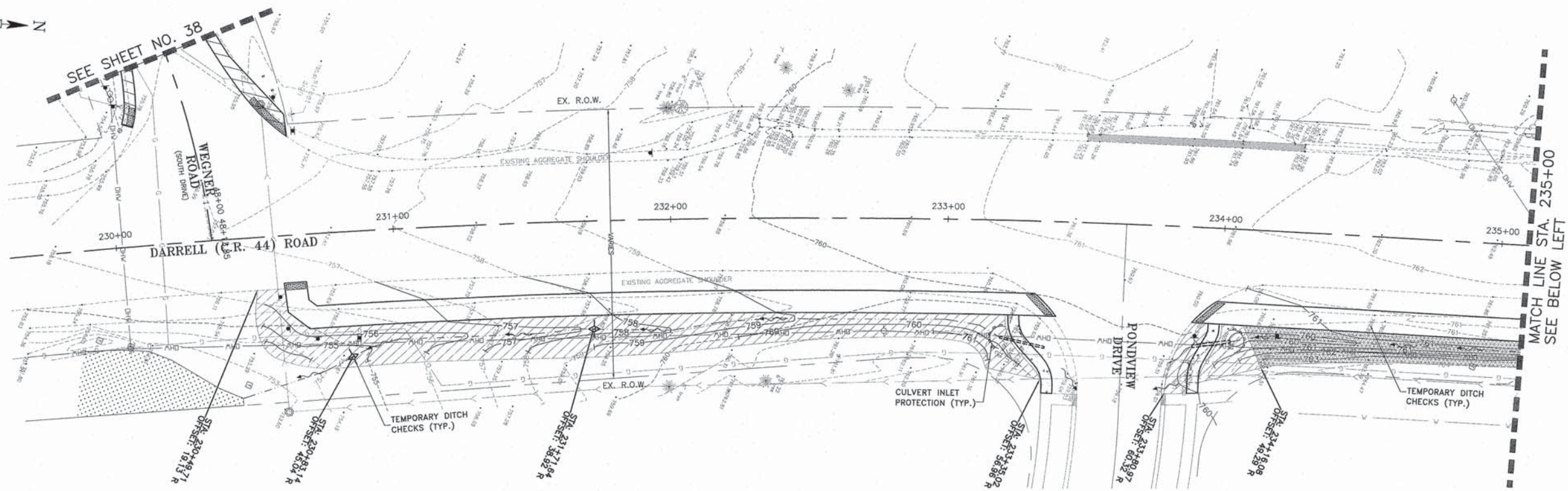
- NOTE:
- SEEDING, CLASS 2A AND MULCH, METHOD 3A WILL BE INSTALLED IN ALL OTHER GRASSED AREAS OF DISTURBANCE.
 - TEMPORARY EROSION CONTROL SEEDING WITH TEMPORARY EROSION CONTROL BLANKET SHALL BE USED UNTIL PERMANENT SEEDING AND SODDING CAN BE INSTALLED.
 - APPLICATION RATE OF MULCH, METHOD 3A SHALL BE INCREASED BY THE MANUFACTURER.

	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN	
WEGNER ROAD	
SCALE: 1"=20'	STA. 40+00 TO STA. 48+13.85

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	43
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



EROSION CONTROL LEGEND:	
	PERIMETER EROSION BARRIER
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)
	TEMPORARY DITCH CHECK
	INLET FILTER
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 21 SALT TOLERANT ROAD SIDE MIX
	SEEDING, CLASS "3" N. SLOPE MIX & WITH MULCH, METHOD 3A (SEE NOTE 3)
	SEEDING, CLASS 2A WITH MULCH, METHOD 3A
	SEEDING CLASS 4A WITH MULCH, METHOD 3A
	EXISTING WETLANDS (AVOID DISTURBANCE)

- NOTE:
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 - APPLICATION RATE OF MULCH, METHOD 3A SHALL BE INCREASED BY THE MANUFACTURER.

CONSULTING, INC.
 INFRACON GEOTECH
 CONSULTING ENGINEERS & LAND SURVEYORS

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

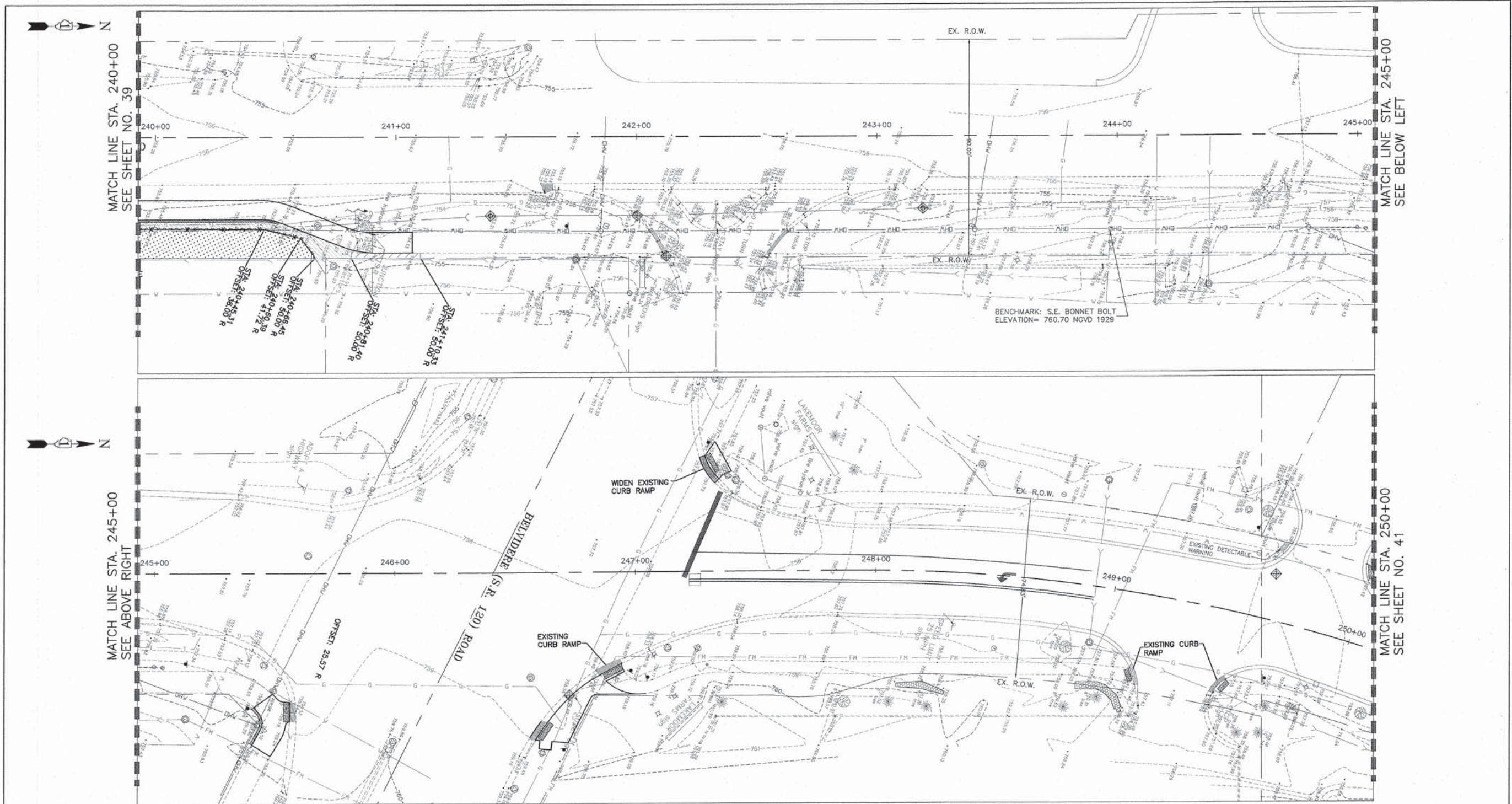
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN
S. DARRELL ROAD

SCALE: 1"=20'

STA. 230+00 TO STA. 240+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	44
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				



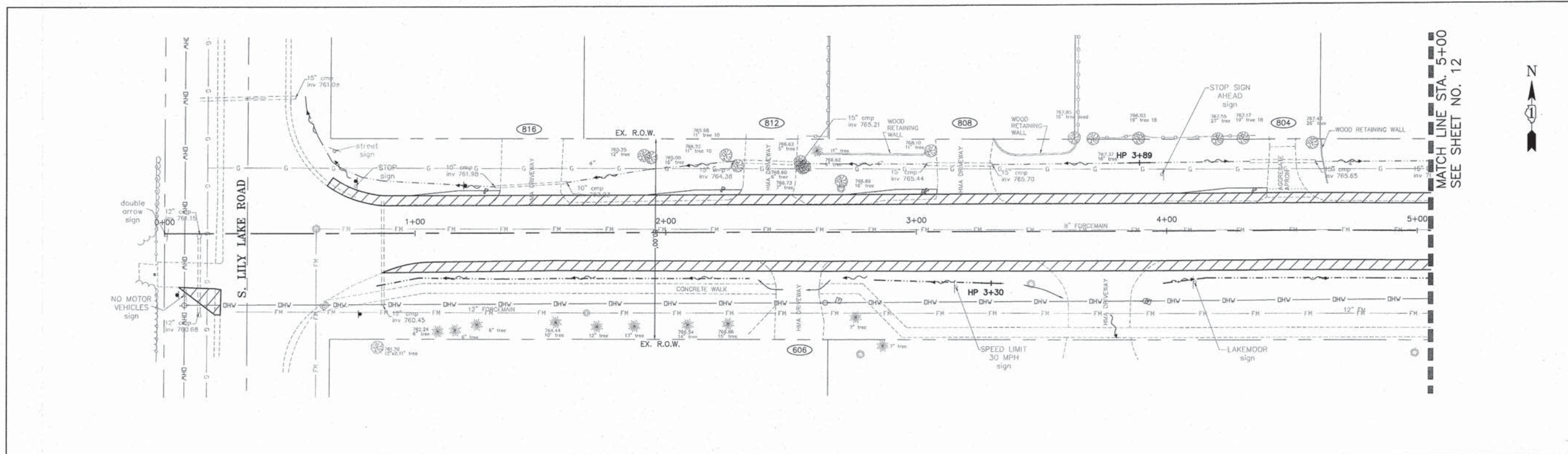
EROSION CONTROL LEGEND:	
	PERIMETER EROSION BARRIER
	CULVERT INLET PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER)
	TEMPORARY DITCH CHECK
	INLET FILTER
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 21 SALT TOLERANT ROAD SIDE MIX
	SEEDING, CLASS "3" N. SLOPE MIX & WITH MULCH, METHOD 3A (SEE NOTE 3)
	SEEDING, CLASS 2A WITH MULCH, METHOD 3A
	SEEDING CLASS 4A WITH MULCH, METHOD 3A
	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 BY THE MANUFACTURER.
 - ALL SOILS EXCAVATED IN THE RTE 120 ROW SHALL BE RESPREAD IN THE PARKWAY AND MAY NOT BE REMOVE OFFSITE. ADD TOPSOIL AND SEED PER SPECIFICATIONS.

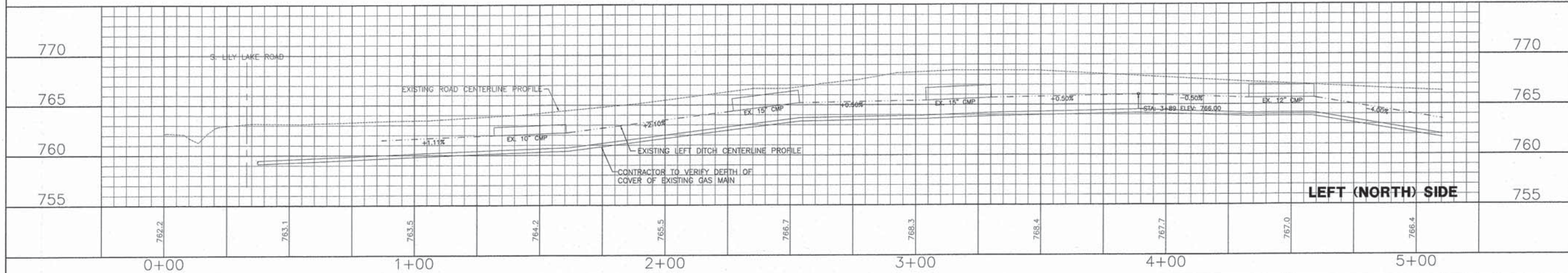
 INFRACON GERRON CONSULTING, INC.	DRAWN - S.R.M.	REVISED - 10/09/15 IDOT SUBMITTAL
	CHECKED - J.K.	REVISED - 12/07/15 FINAL PLANS
	DATE - 07/21/15	REVISED - 12/29/15 IDOT REVIEW
		REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

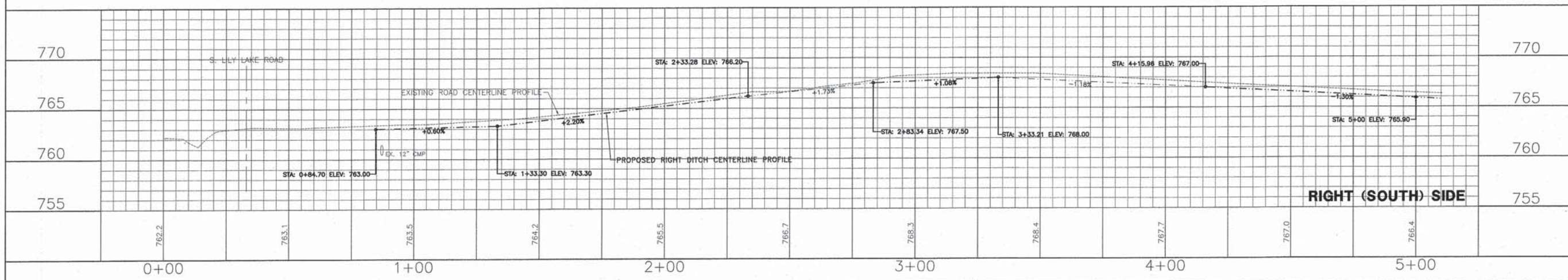
EROSION AND SEDIMENT CONTROL PLAN S. & N. DARRELL ROAD		F.A.U. STA.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		0012	14-00011-00-BT	MCHENRY	104	45
SCALE: 1"=20'		STA. 240+00	TO STA. 250+00	CONTRACT NO. 61C28		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1(997)				



MATCH LINE STA. 5+00
SEE SHEET NO. 12



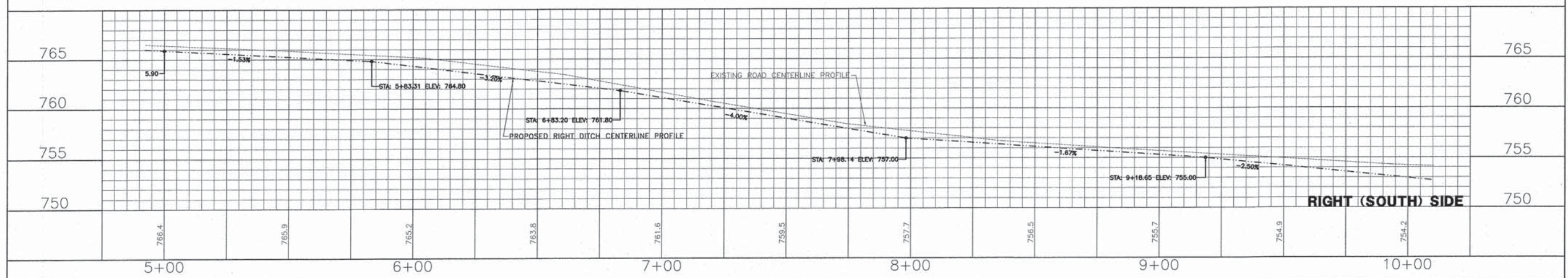
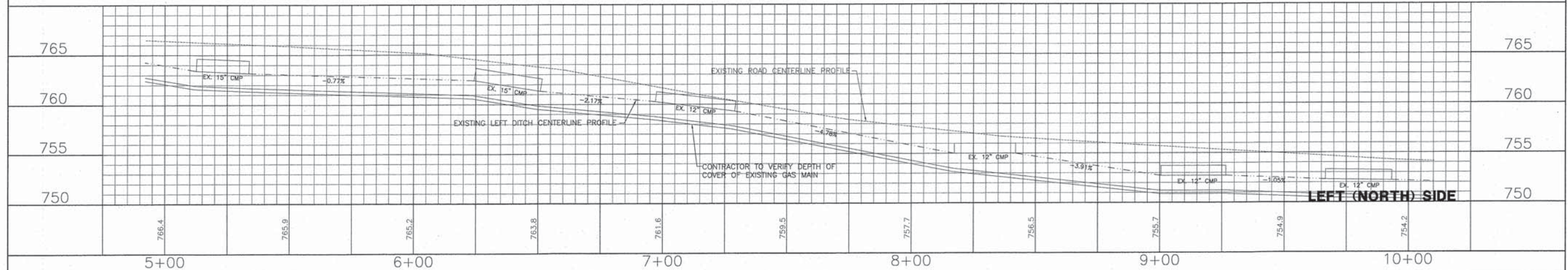
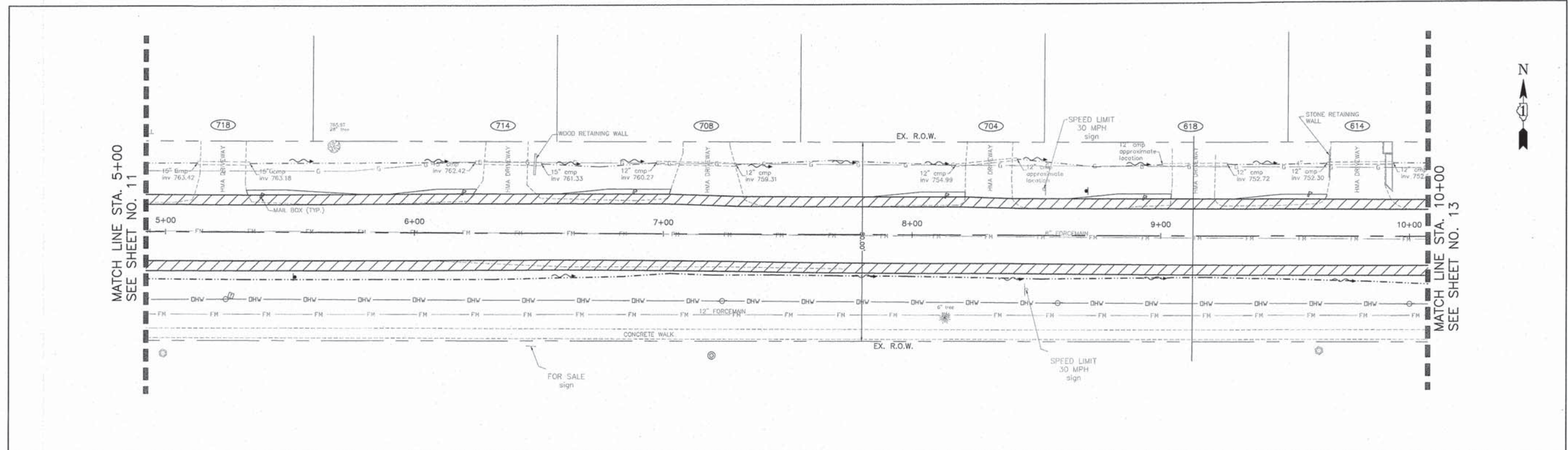
LEFT (NORTH) SIDE



RIGHT (SOUTH) SIDE

CONSULTING, INC. INFRACON GEOTECH <small>CONSULTING ENGINEERS & LAND SURVEYORS</small> <small>1100 N. WASHINGTON ST., SUITE 200, CHICAGO, IL 60610</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES WEGNER ROAD	F.A.U. SECTION COUNTY TOTAL SHEETS SHEET NO.
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			0012 14-00011-00-BT MCHENRY 104 46
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			C-91-209-15 CONTRACT NO. 61C28
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)

SCALE: 1"=20' STA. 0+00 TO STA. 5+00

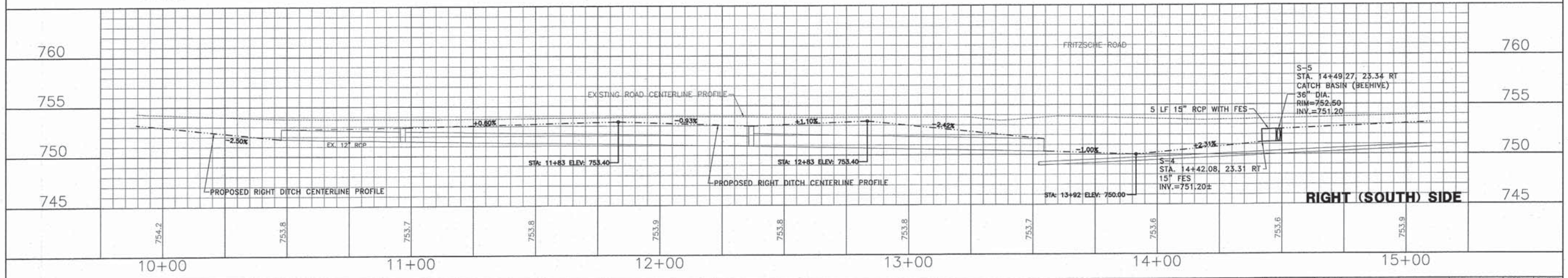
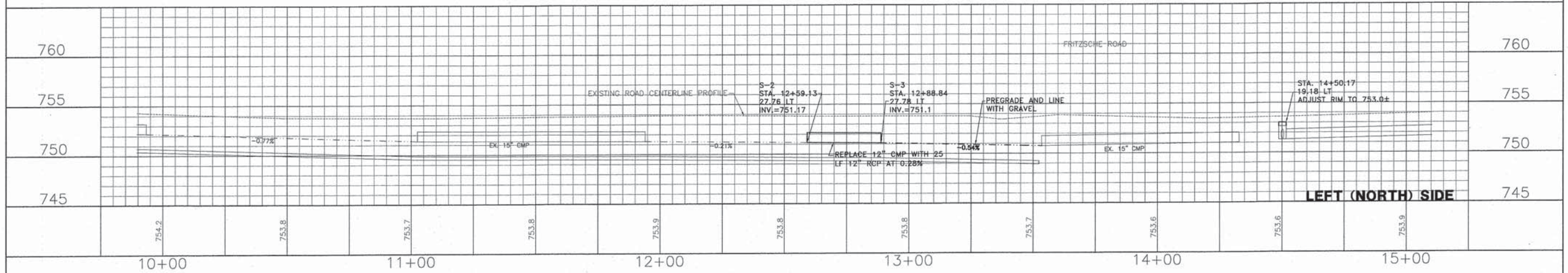
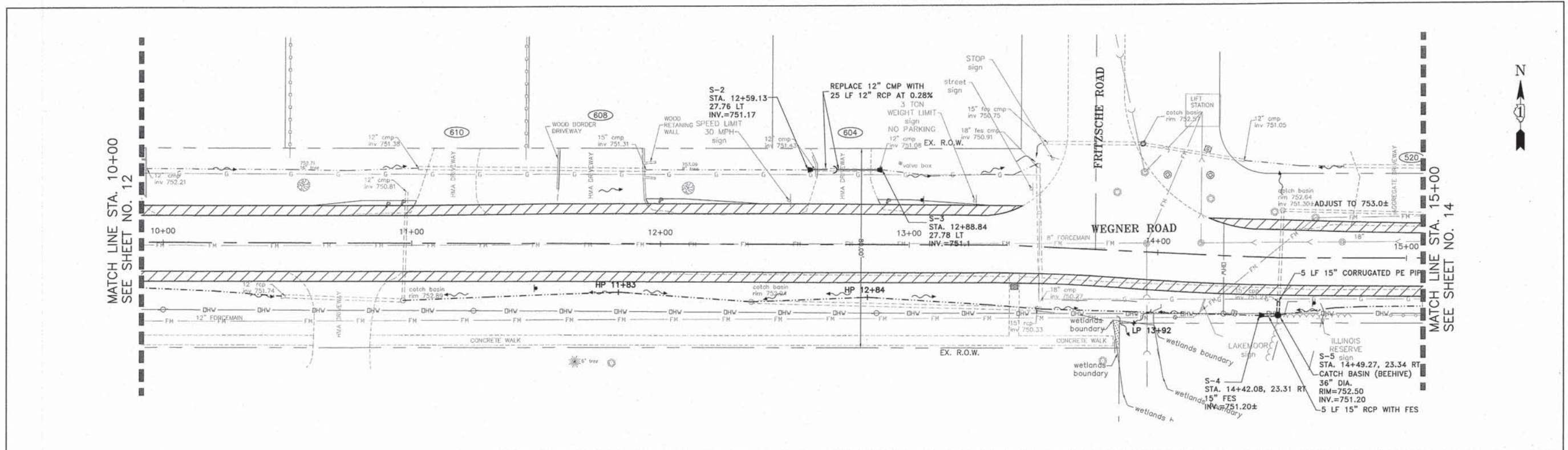


	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

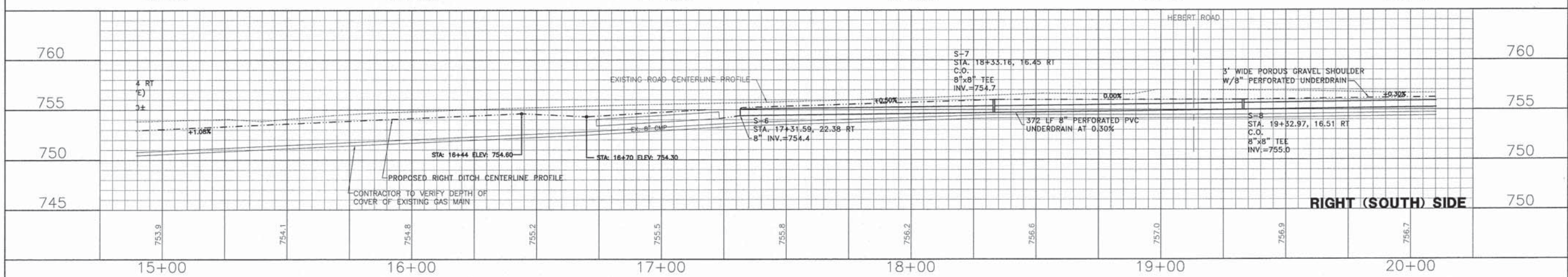
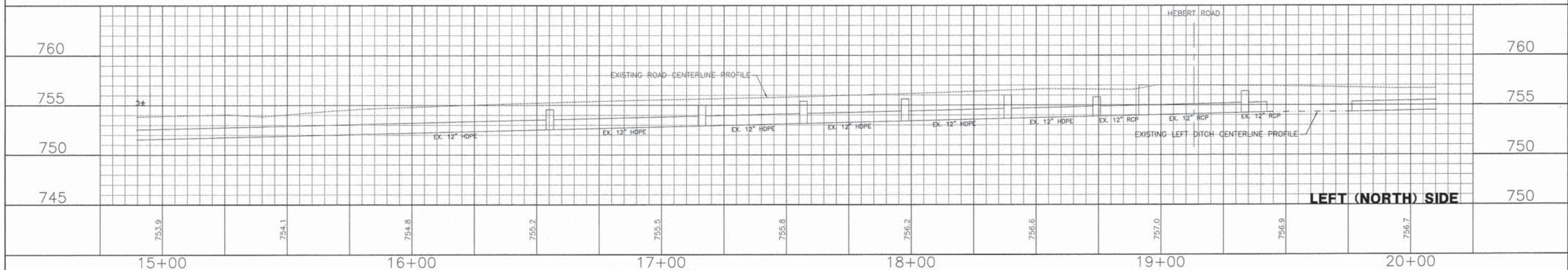
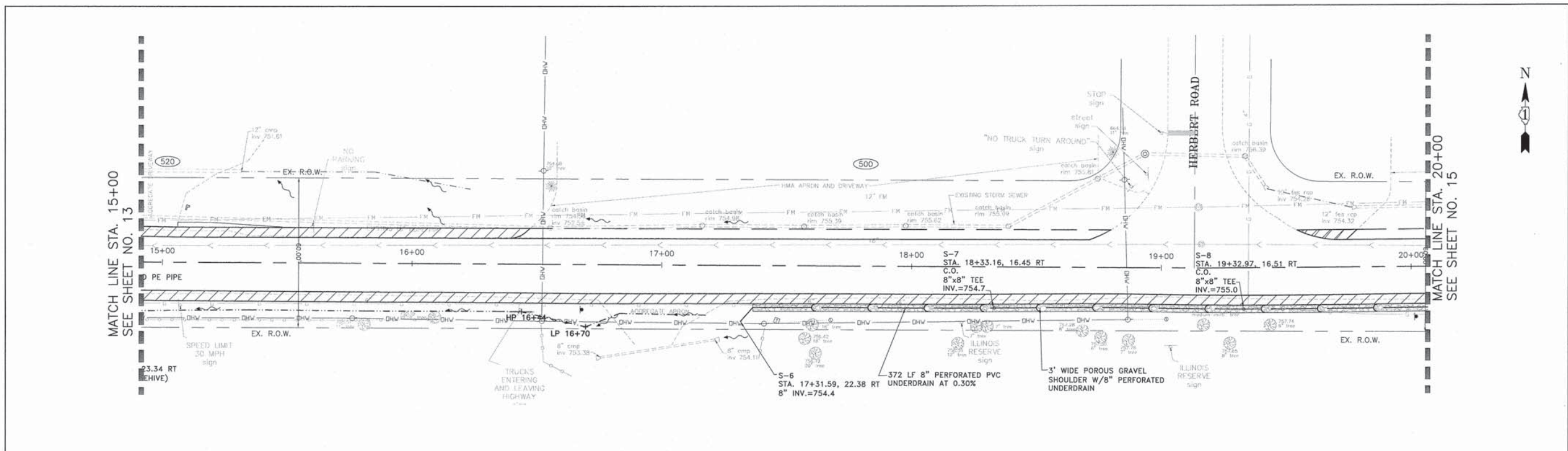
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES
WEGNER ROAD**

SCALE: 1"=20'	STA. 5+00 TO STA. 10+00	F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 47
		C-91-209-15		CONTRACT NO. 61C28		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				

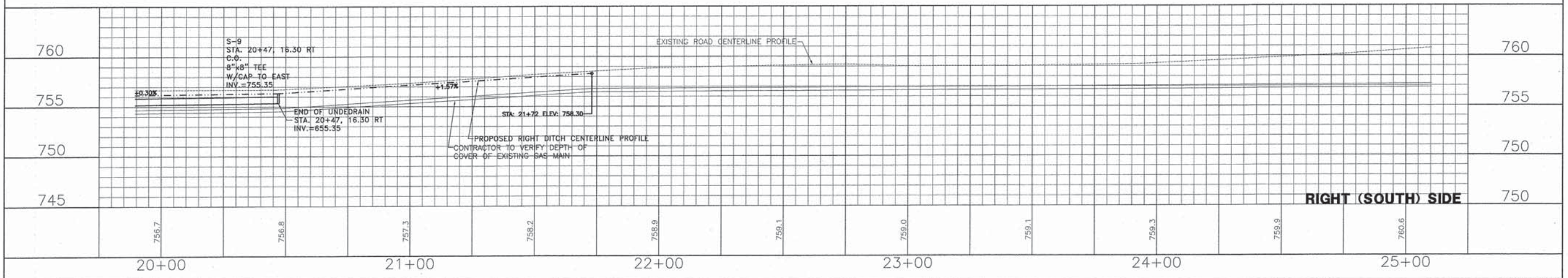
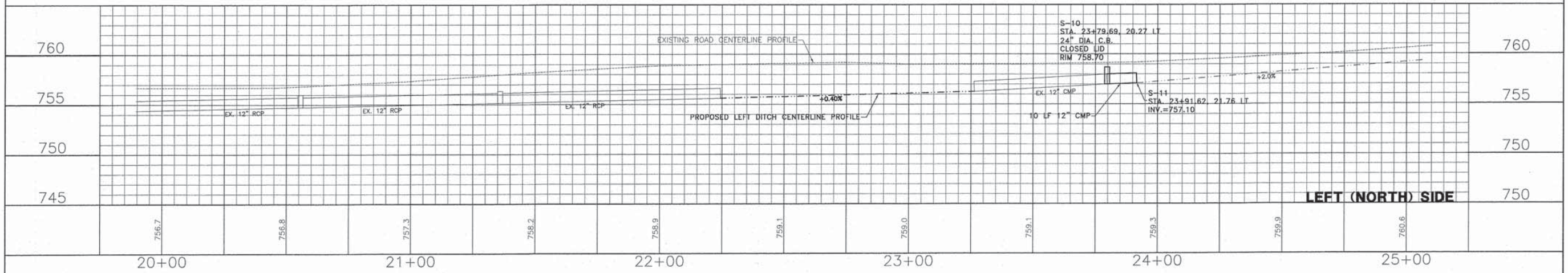
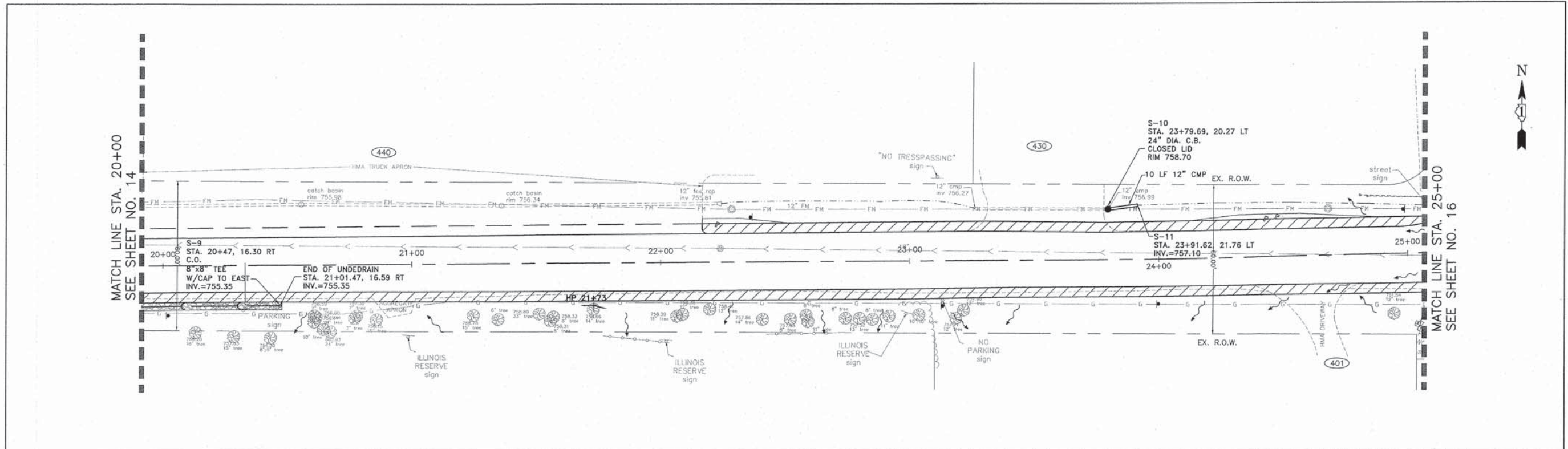


	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES WEGNER ROAD		F.A.U. STA. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 48	
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS				C-91-209-15	CONTRACT NO. 61C28				
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW				FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT TE-00D1(997)			
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS				SCALE: 1"=20'		STA. 10+00 TO STA. 15+00			



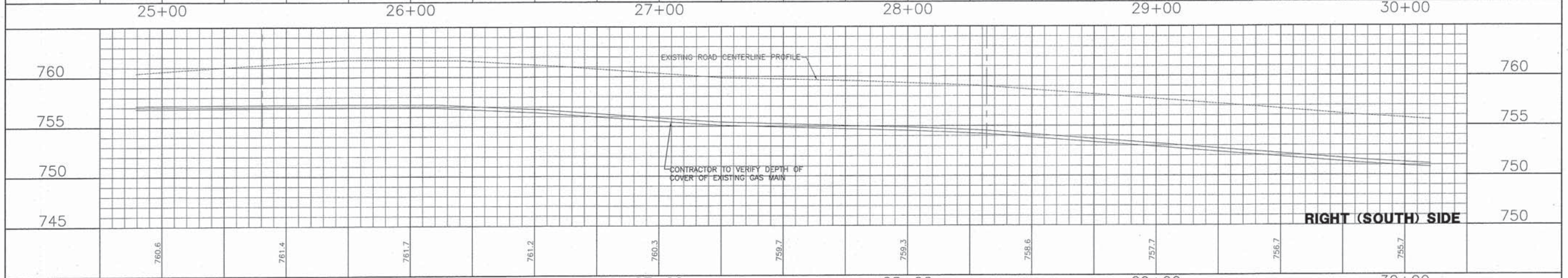
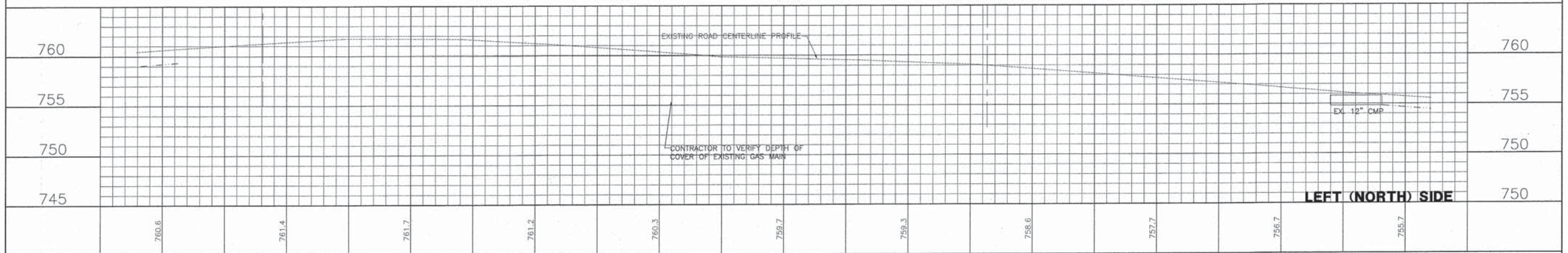
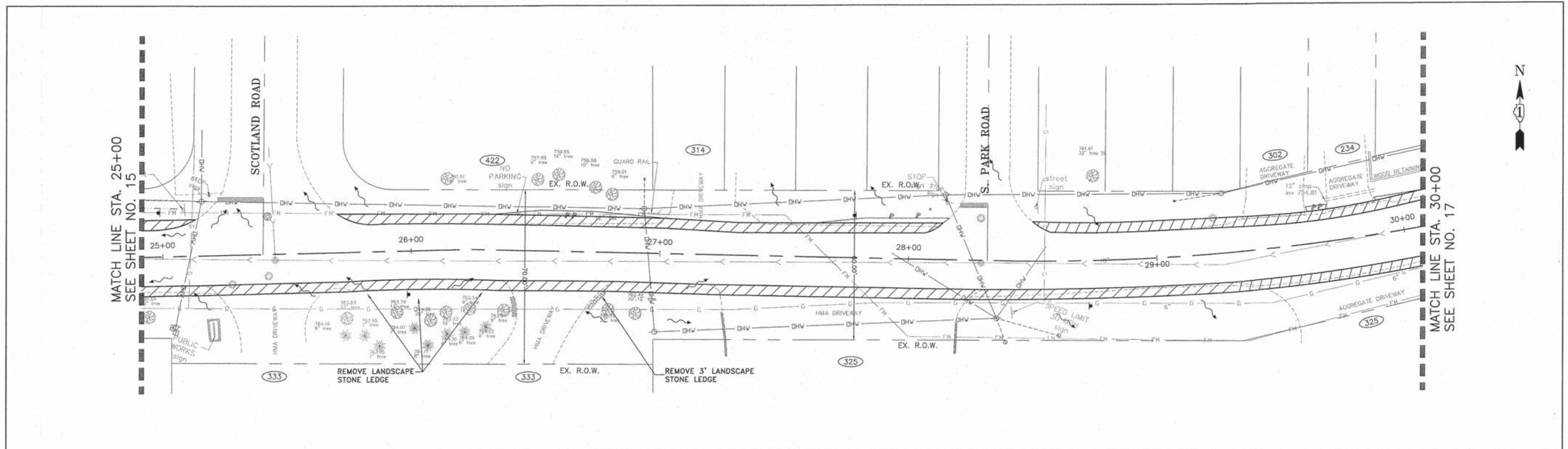
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	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			0012	14-00011-00-BT	MCHENRY	104	49
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			C-91-209-15		CONTRACT NO. 61C28		
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS			FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT TE-001(997)		

SCALE: 1"=20' STA. 15+00 TO STA. 20+00

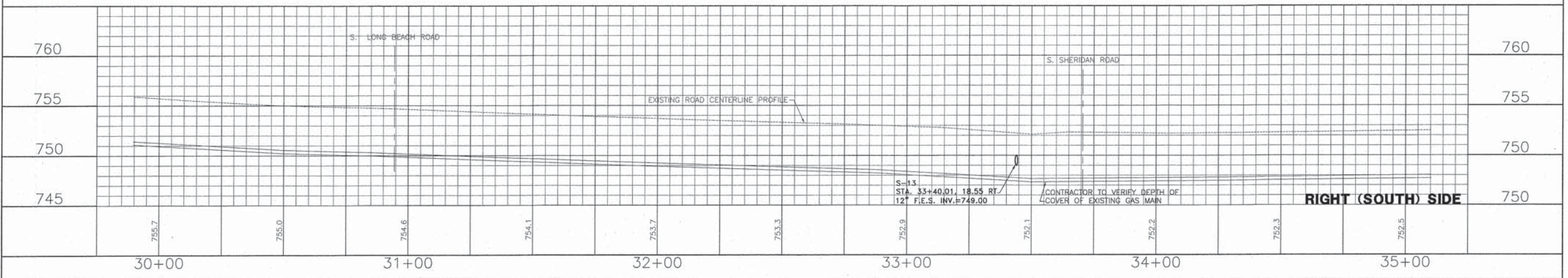
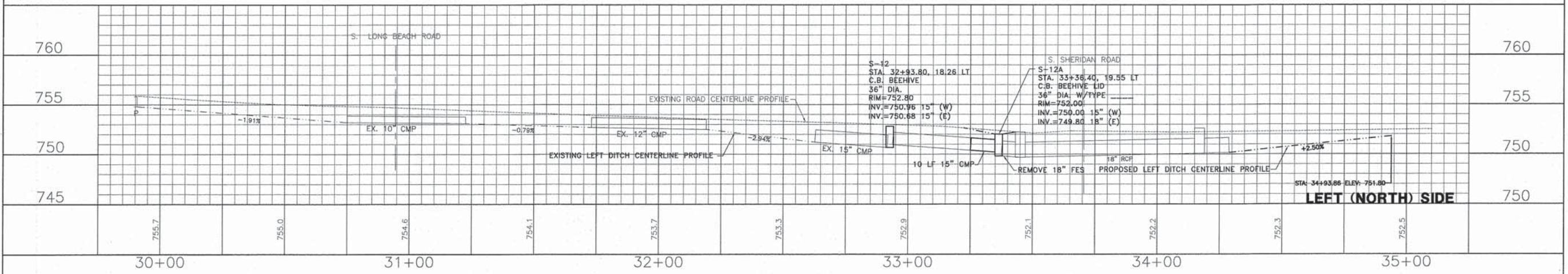
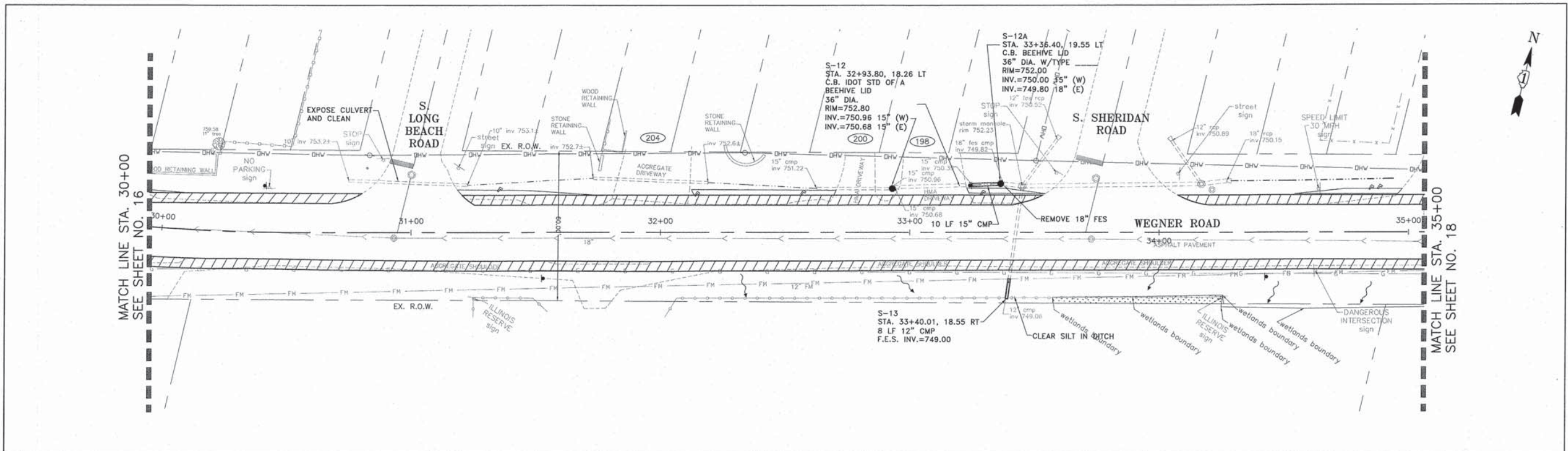


	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES WEGNER ROAD	F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			0012	14-00011-00-BT	MCHENRY	104	50
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			C-91-209-15		CONTRACT NO. 61C28		
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(097)				

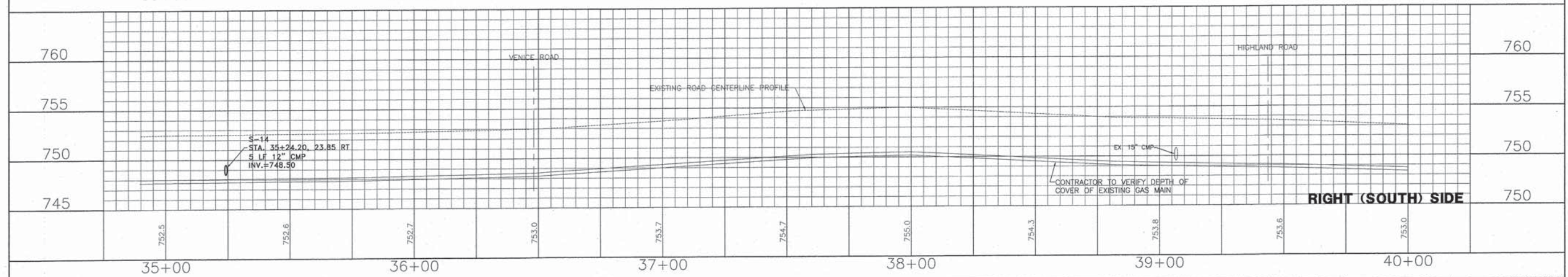
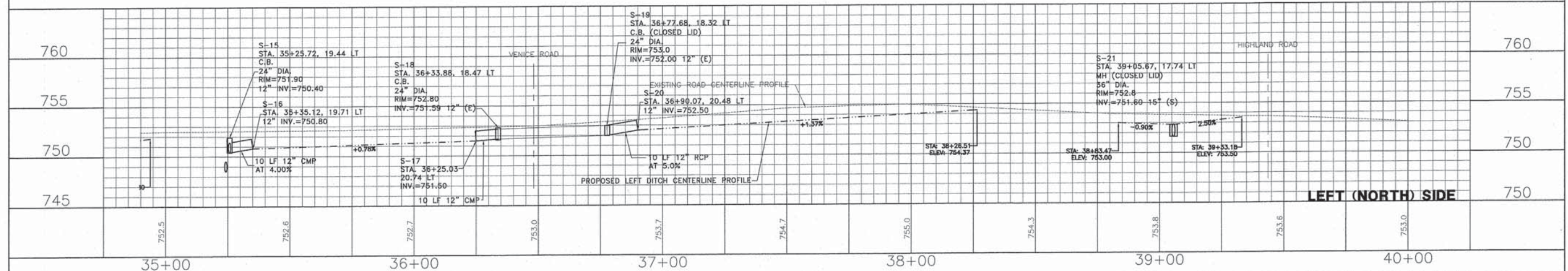
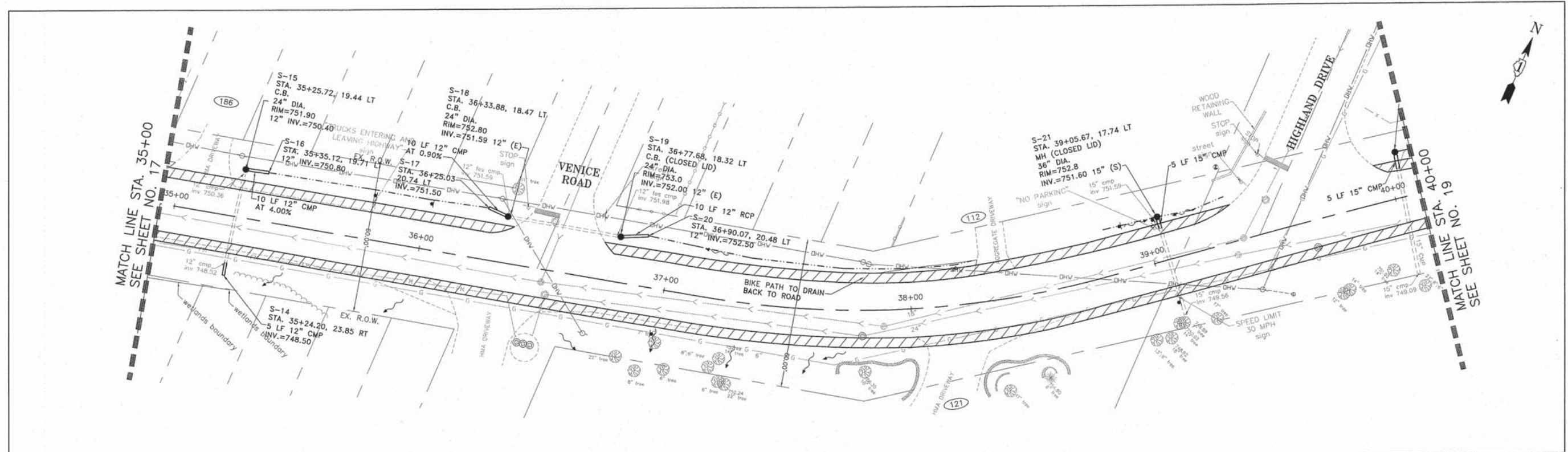
SCALE: 1"=20' STA. 20+00 TO STA. 25+00



	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES WEGNER ROAD	F.A.U. SITE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 51
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			C-91-209-15	CONTRACT NO. 61C28			
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS							

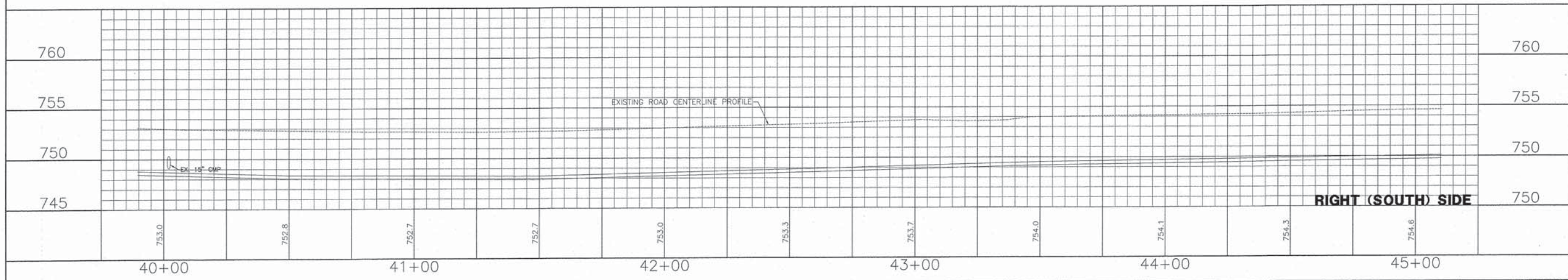
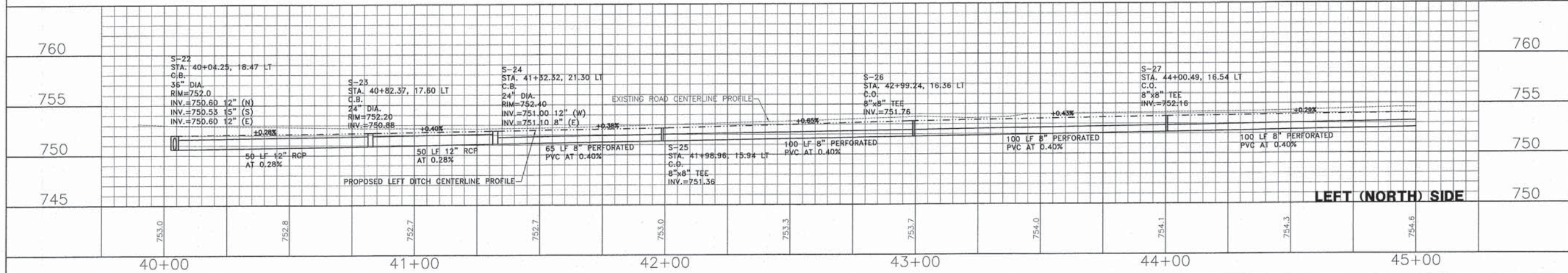
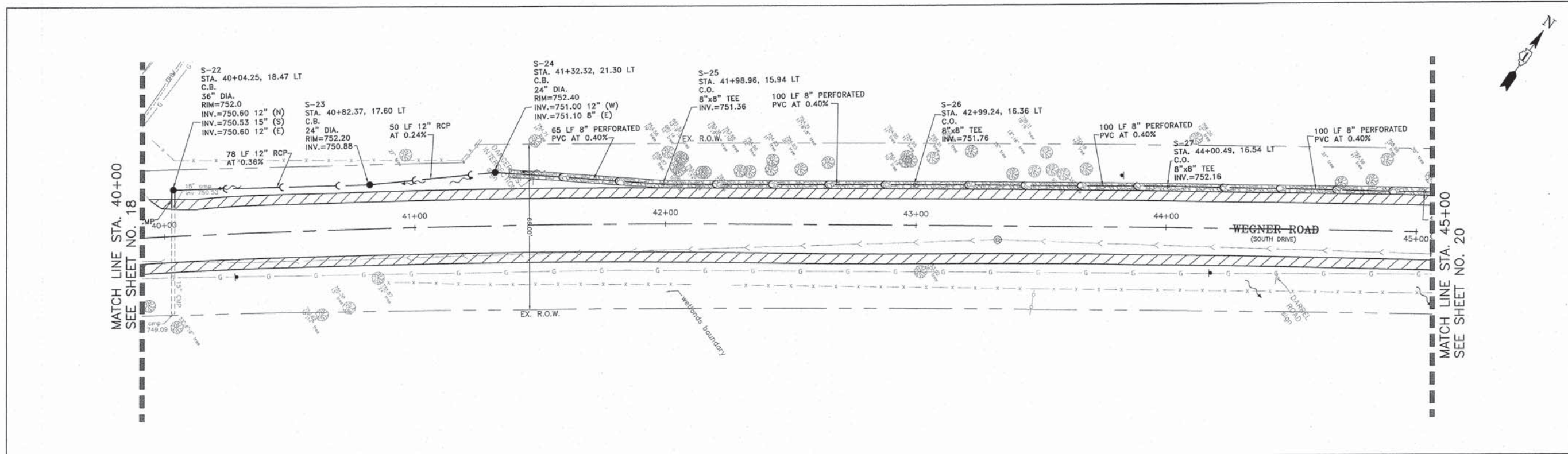


	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES WEGNER ROAD		F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS		0012	14-00011-00-BT	MCHENRY	104	52		
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW		C-91-209-15		CONTRACT NO. 61C28				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT TE-00D1(997)				

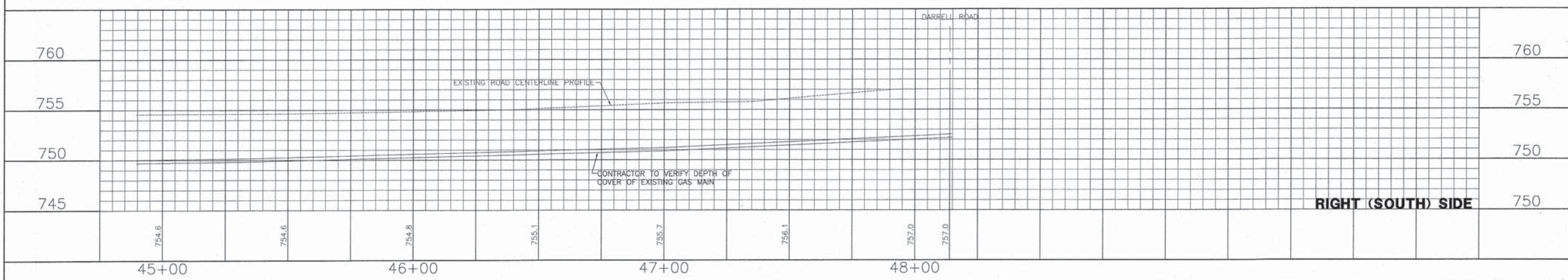
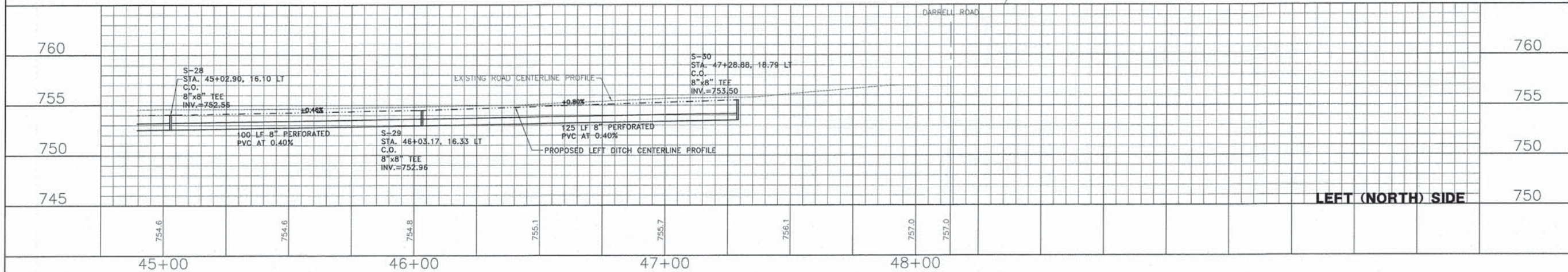
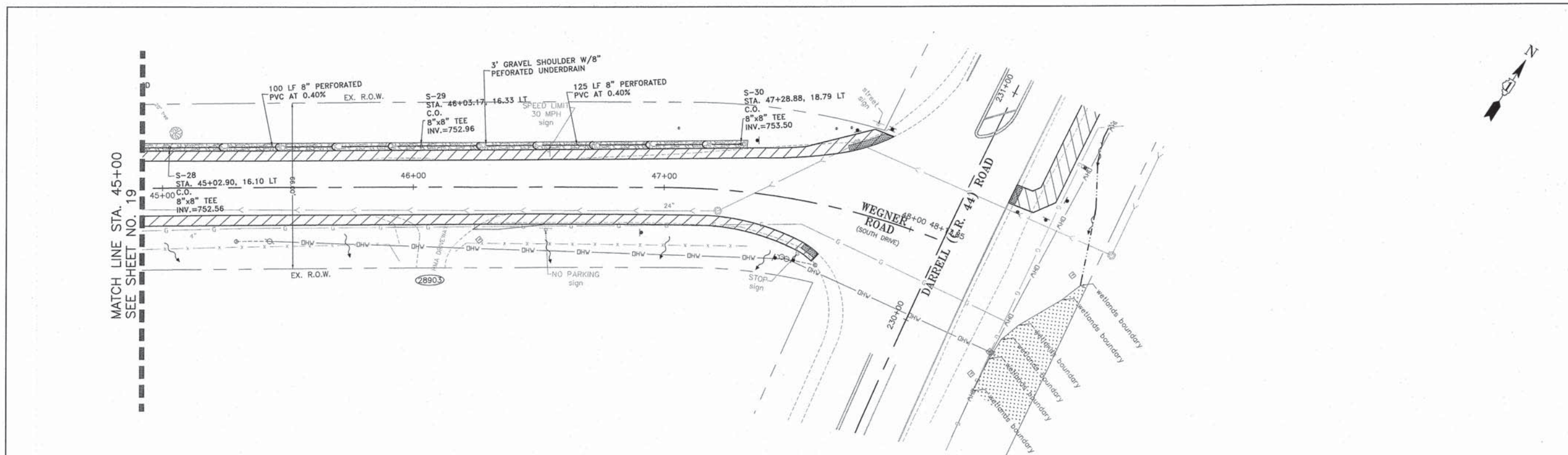


CONSULTING, INC. INFRACON GENCON <small>CONSULTING ENGINEERS & LAND SURVEYORS</small> <small>1000 WEST WASHINGTON STREET, SUITE 200, CHICAGO, ILLINOIS 60606</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES WEGNER ROAD	F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 53
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			C-91-209-15	CONTRACT NO. 61C28			
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS							

SCALE: 1"=20' STA. 35+00 TO STA. 40+00

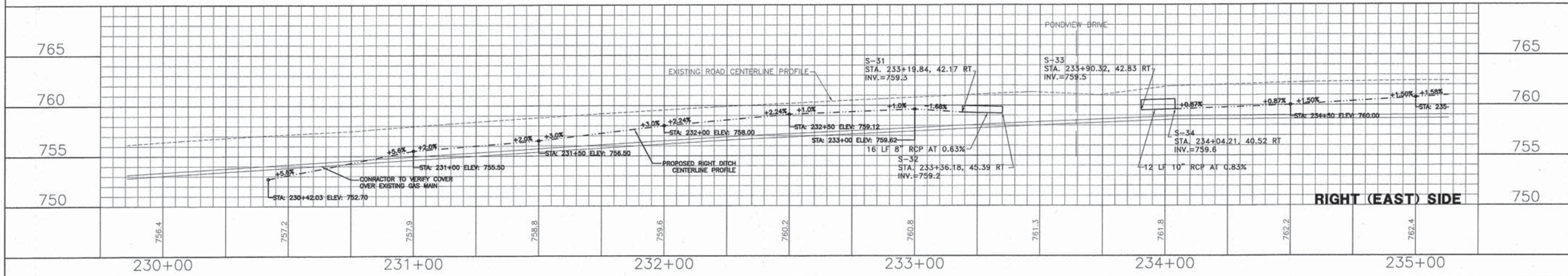
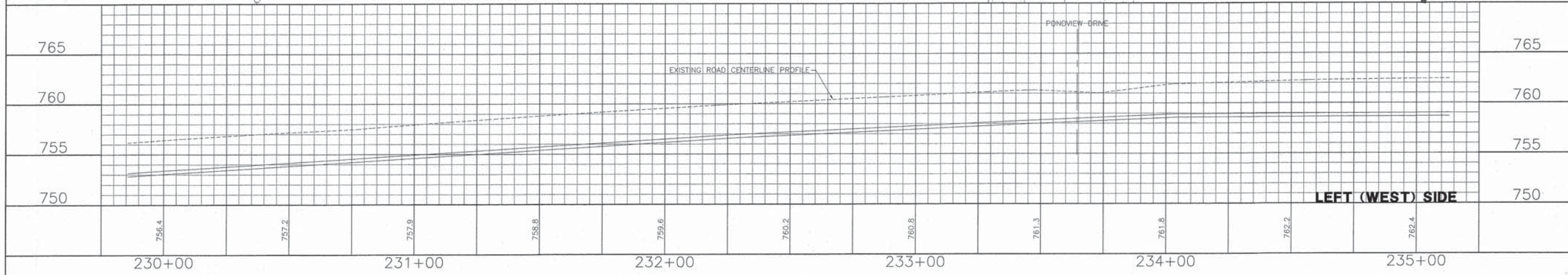
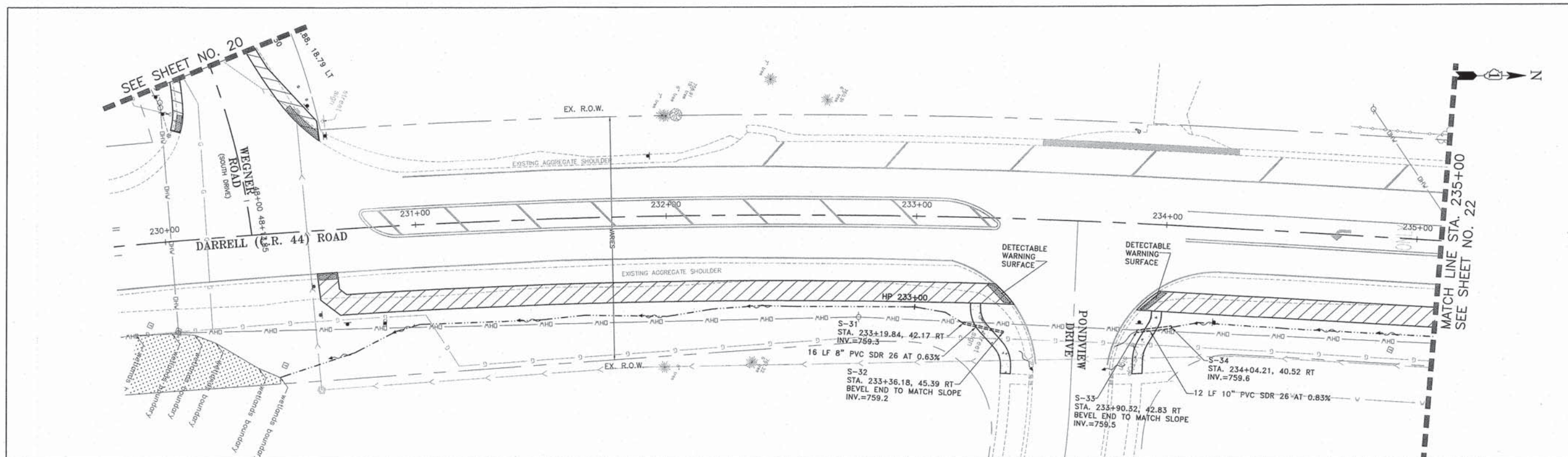


	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES WEGNER ROAD		F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS				0012	14-00011-00-BT	MCHENRY	104	54
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW				C-91-209-15				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS				CONTRACT NO. 61C28				
SCALE: 1"=20'						STA. 40+00 TO STA. 45+00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)		



	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES WEGNER ROAD	F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			0012	14-00011-00-BT	MCHENRY	104	55	
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			C-91-209-15		CONTRACT NO. 61C28			
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS			FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT TE-0001(997)			

SCALE: 1"=20' STA. 45+00 TO STA. 48+13.85



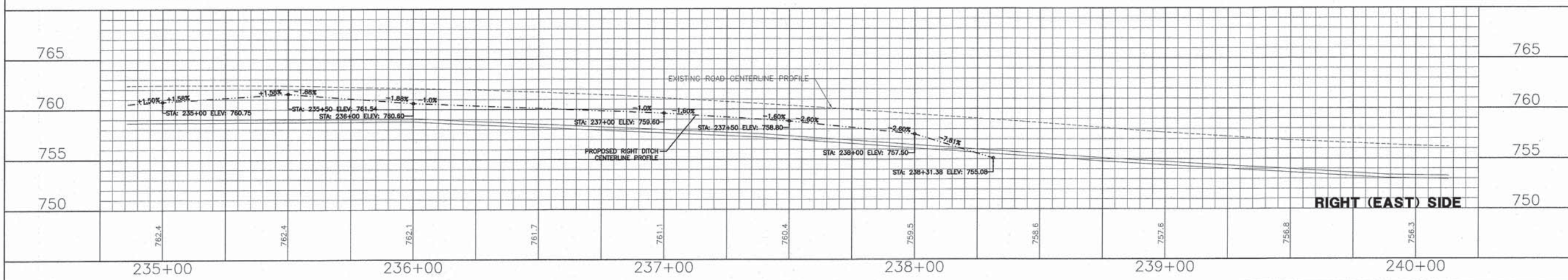
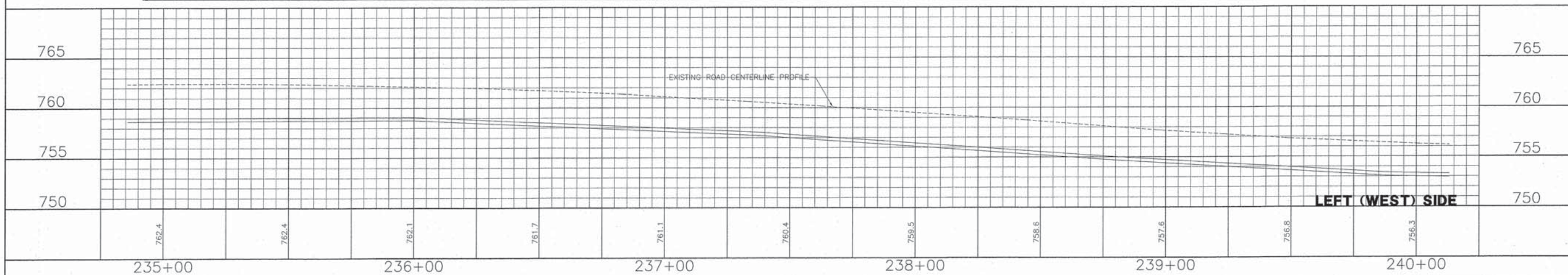
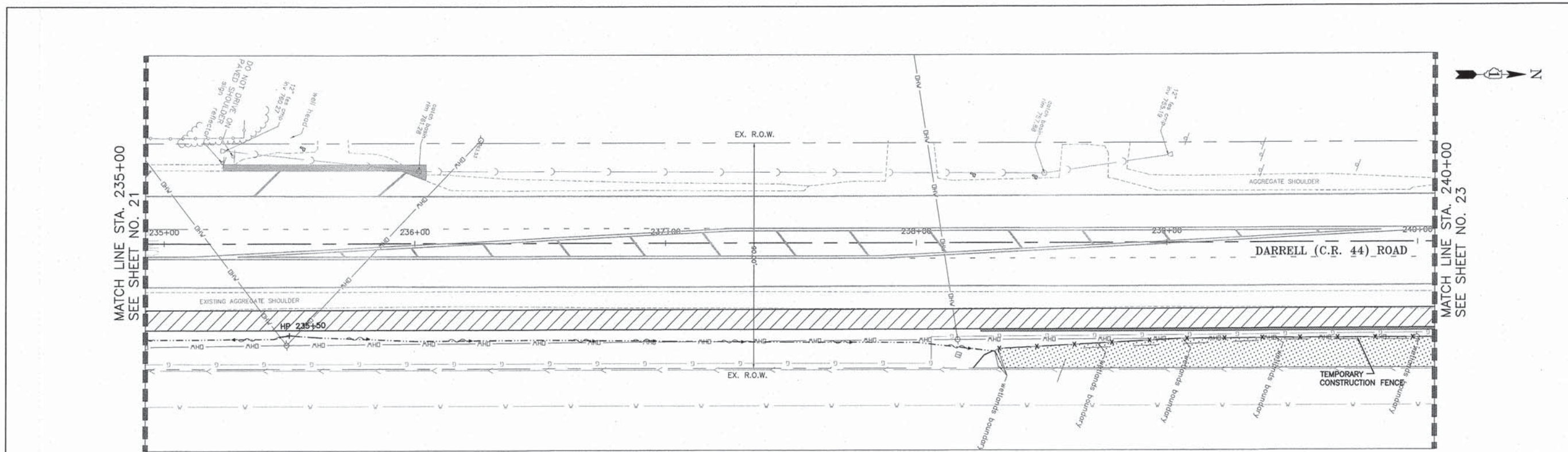
	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

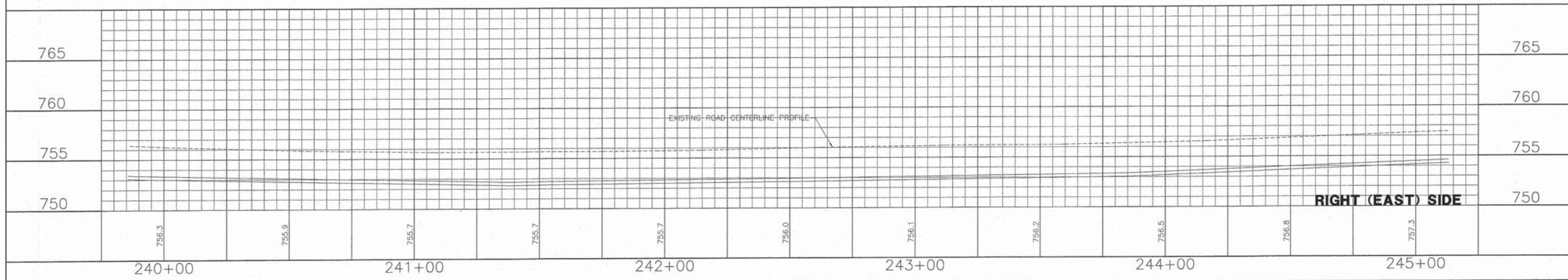
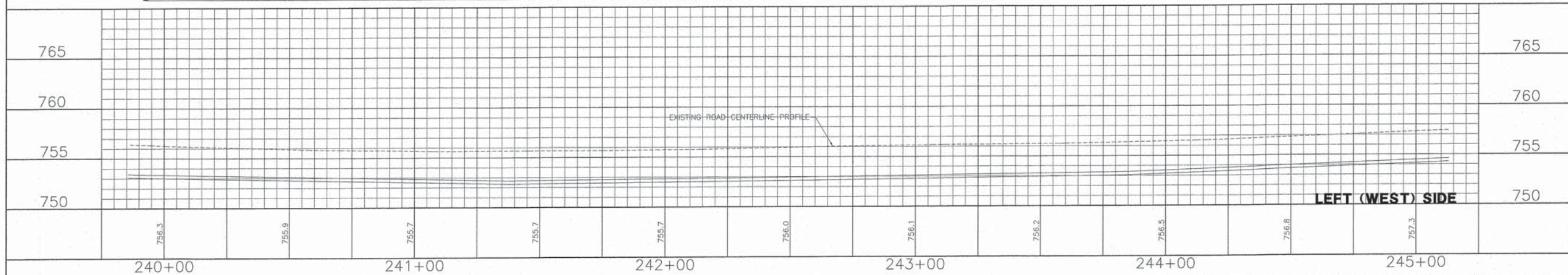
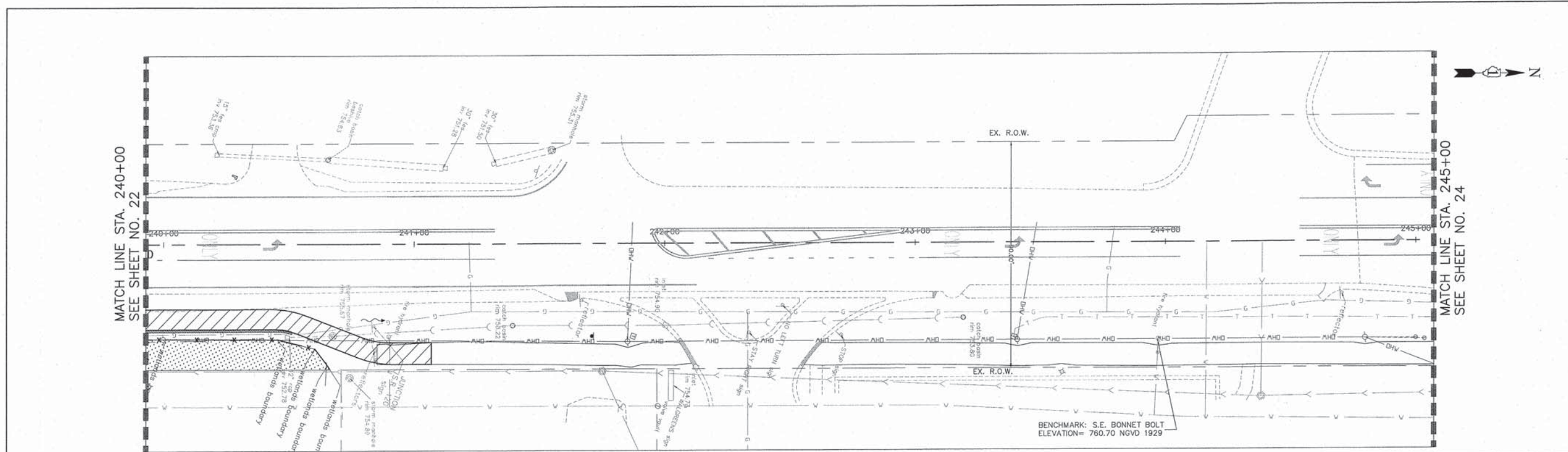
DRAINAGE AND UTILITIES
DARRELL ROAD

SCALE: 1"=20'
STA. 230+00 TO STA. 235+00

F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 56
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1(997)				

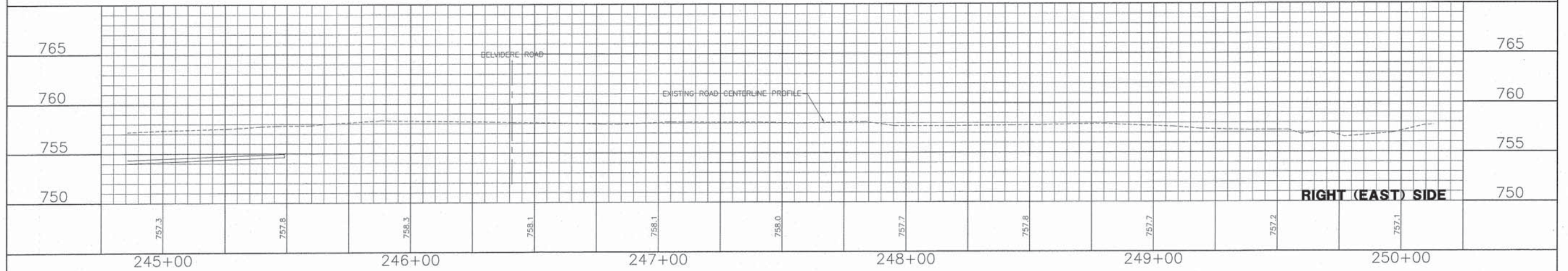
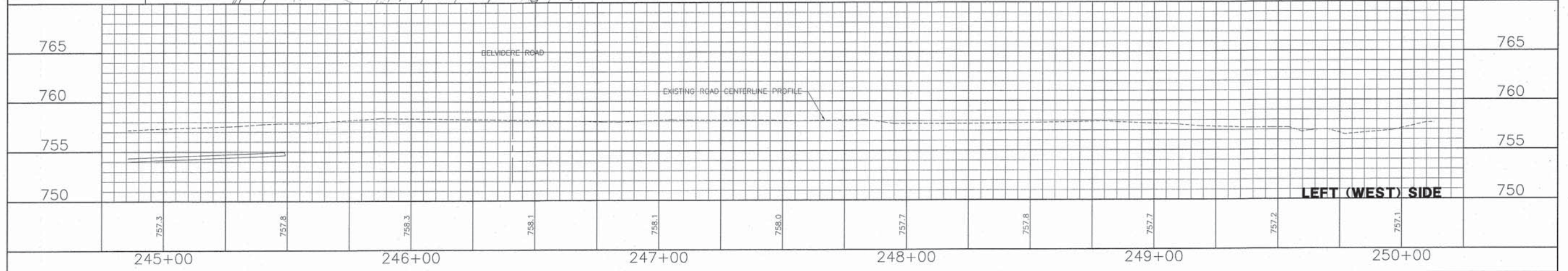
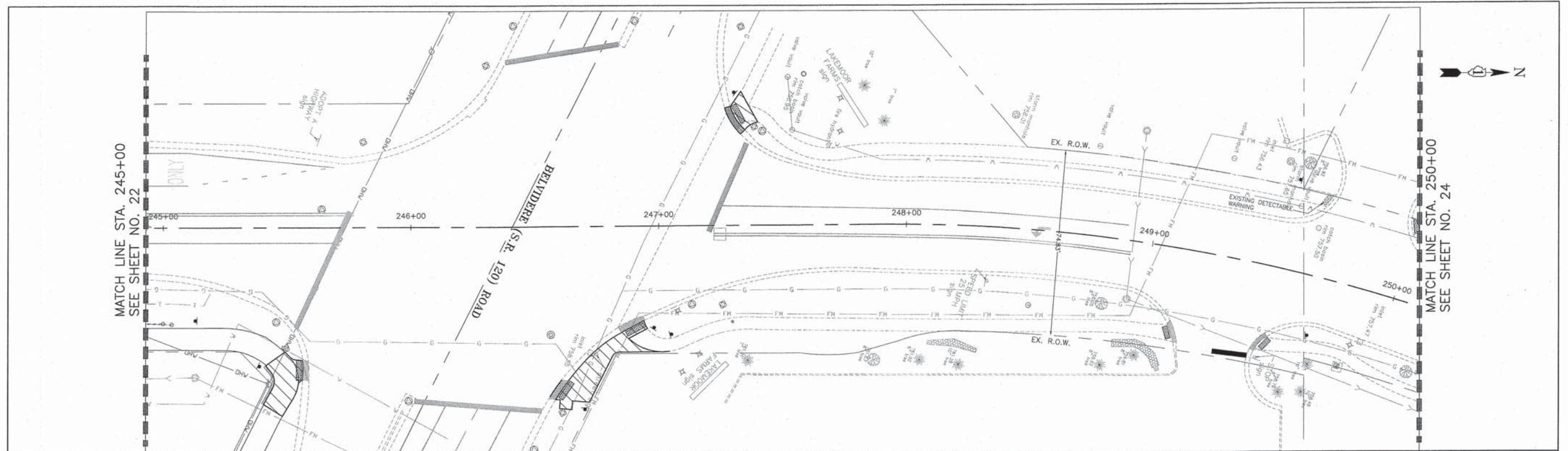


	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES DARRELL ROAD	F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 57
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			C-91-209-15	CONTRACT NO. 61C28			
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS							



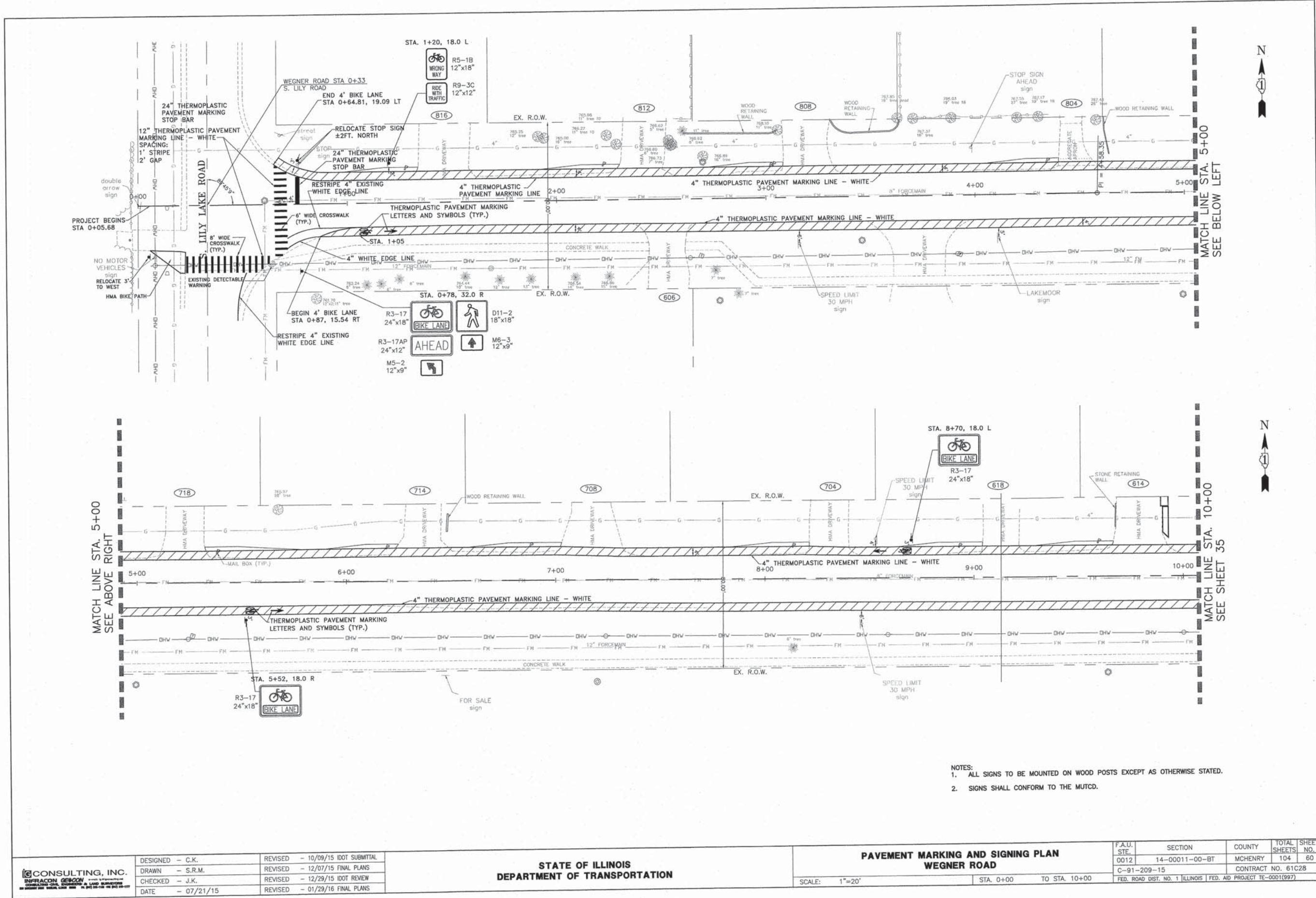
	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES DARRELL ROAD	F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 58
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			C-91-209-15	CONTRACT NO. 61C28			
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0011997				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS							

SCALE: 1"=20' STA. 240+00 TO STA. 245+00



	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES DARRELL ROAD	F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			0012	14-00011-00-BT	MCHENRY	104	59	
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			C-91-209-15			CONTRACT NO. 61C28		
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS			FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT TE-00D1(997)		

SCALE: 1"=20' STA. 245+00 TO STA. 250+00



- NOTES:
 1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

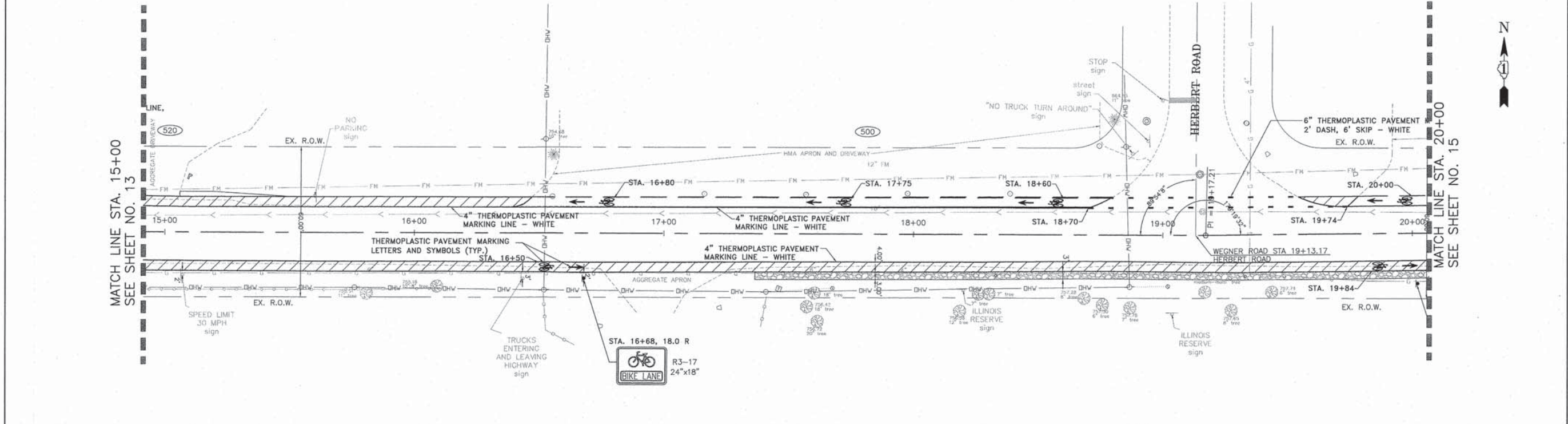
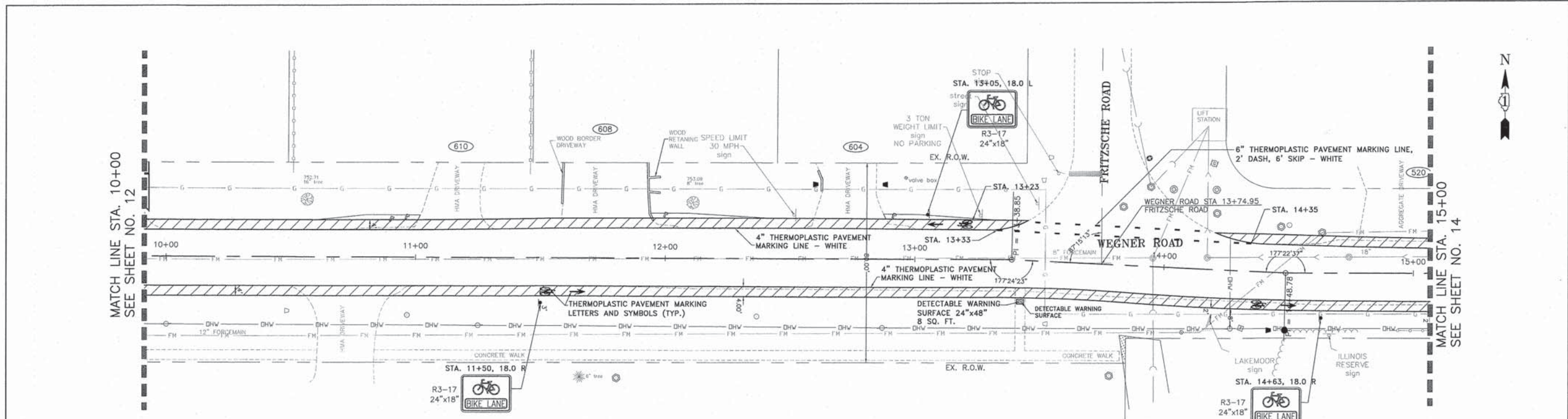
CONSULTING, INC. <small>INFRACON GEORGIN</small> <small>CONSULTING ENGINEERS, ARCHITECTS AND LAND SURVEYORS</small> <small>1000 WEST WASHINGTON STREET, SUITE 200, CHICAGO, ILLINOIS 60606</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
 WEGNER ROAD**

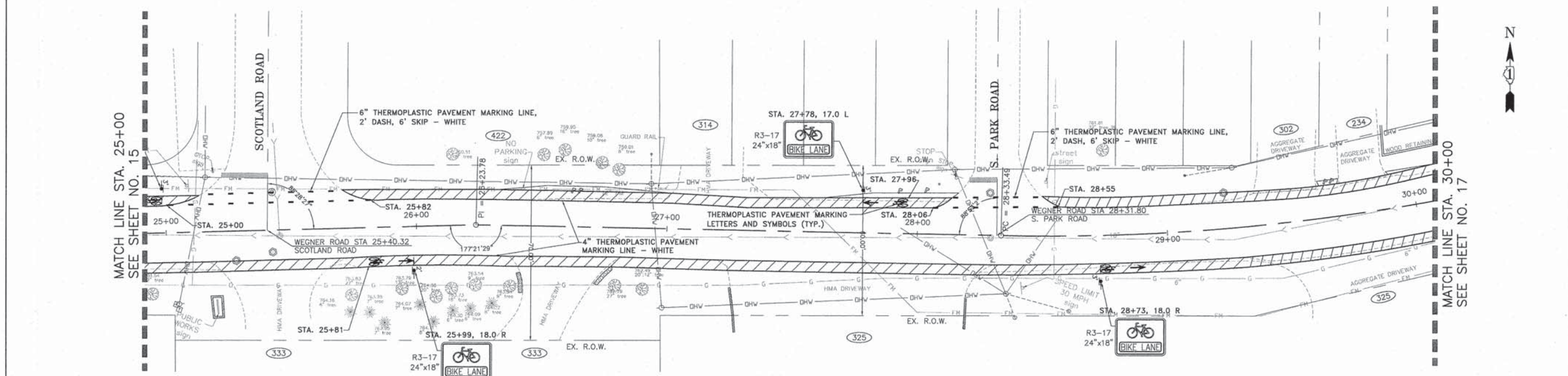
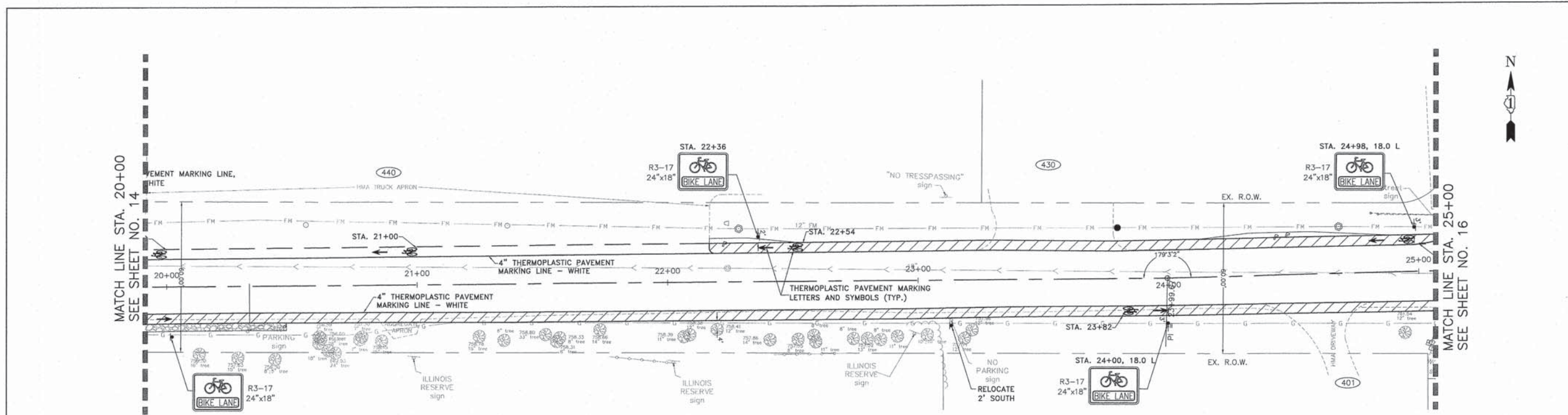
F.A.U. ST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	60
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT TE-0001(997)				

SCALE: 1"=20' STA. 0+00 TO STA. 10+00



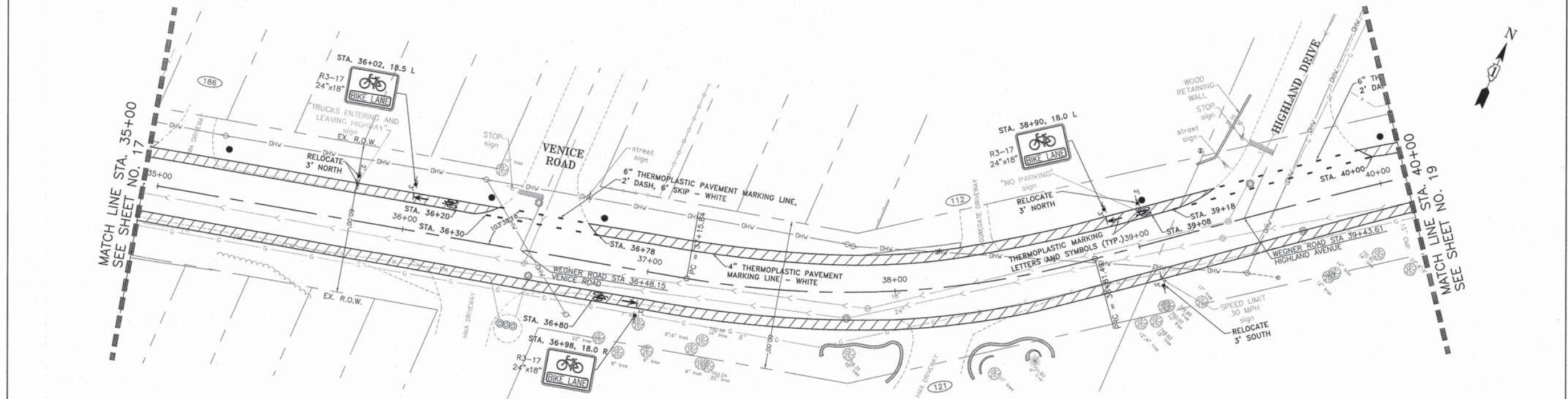
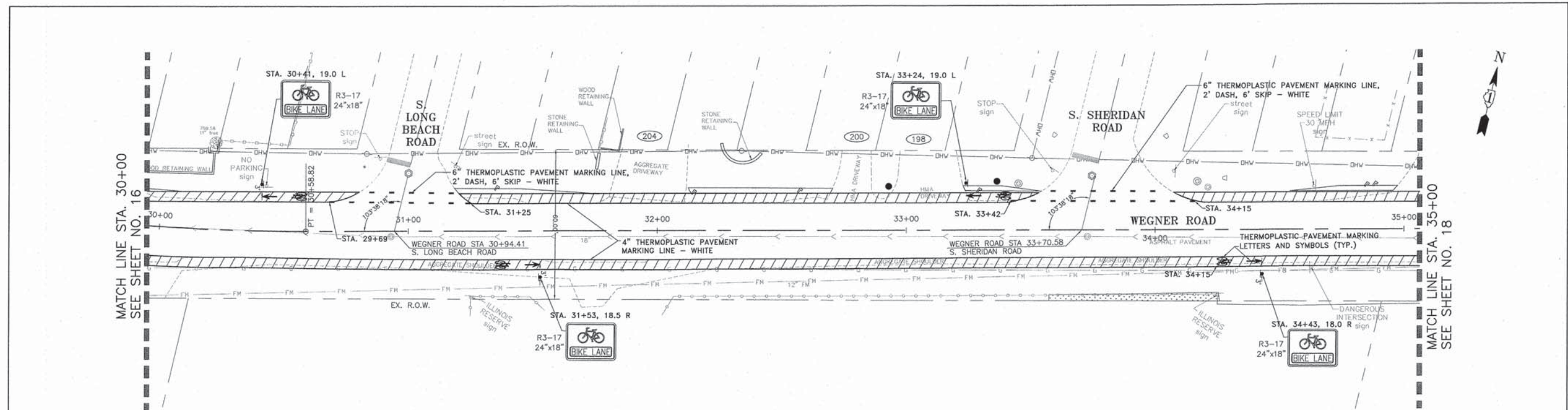
- NOTES:
1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN WEGNER ROAD		F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS		0012	14-00011-00-BT	MCHENRY	104	61			
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW		SCALE: 1"=20'		STA. 10+00 TO STA. 20+00		C-91-209-15		CONTRACT NO. 61C28	
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS						FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT TE-0001(997)	



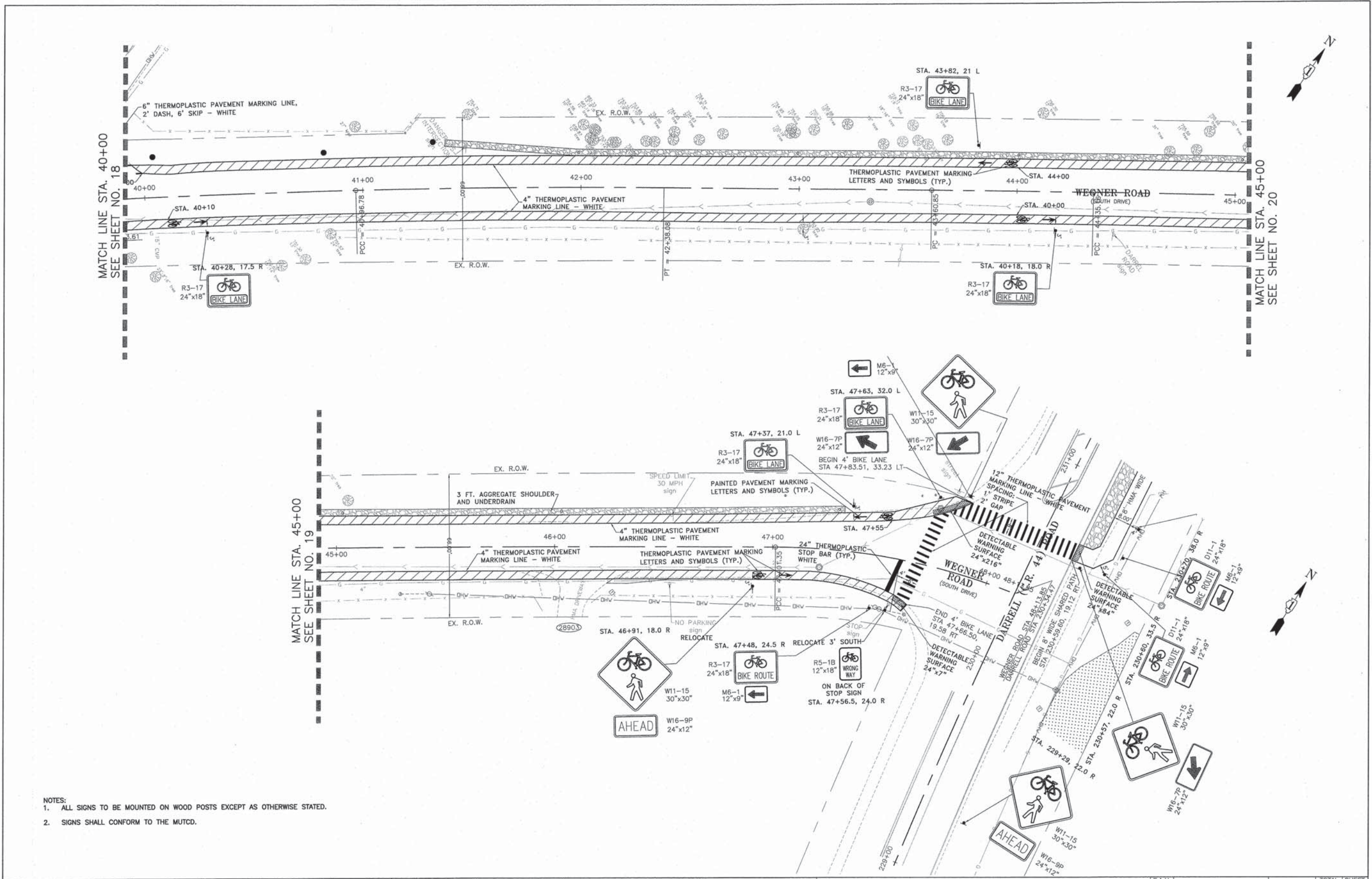
- NOTES:
1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN WEGNER ROAD		F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS		0012	14-00011-00-BT	MCHENRY	104	62		
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW		C-91-209-15				CONTRACT NO. 61C28		
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001997						



- NOTES:
1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN WEGNER ROAD		F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS		0012	14-00011-00-BT	MCHENRY	104	63		
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW		SCALE: 1"=20'		STA. 30+00 TO STA. 40+00		CONTRACT NO. 61C28		
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



- NOTES:
 1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

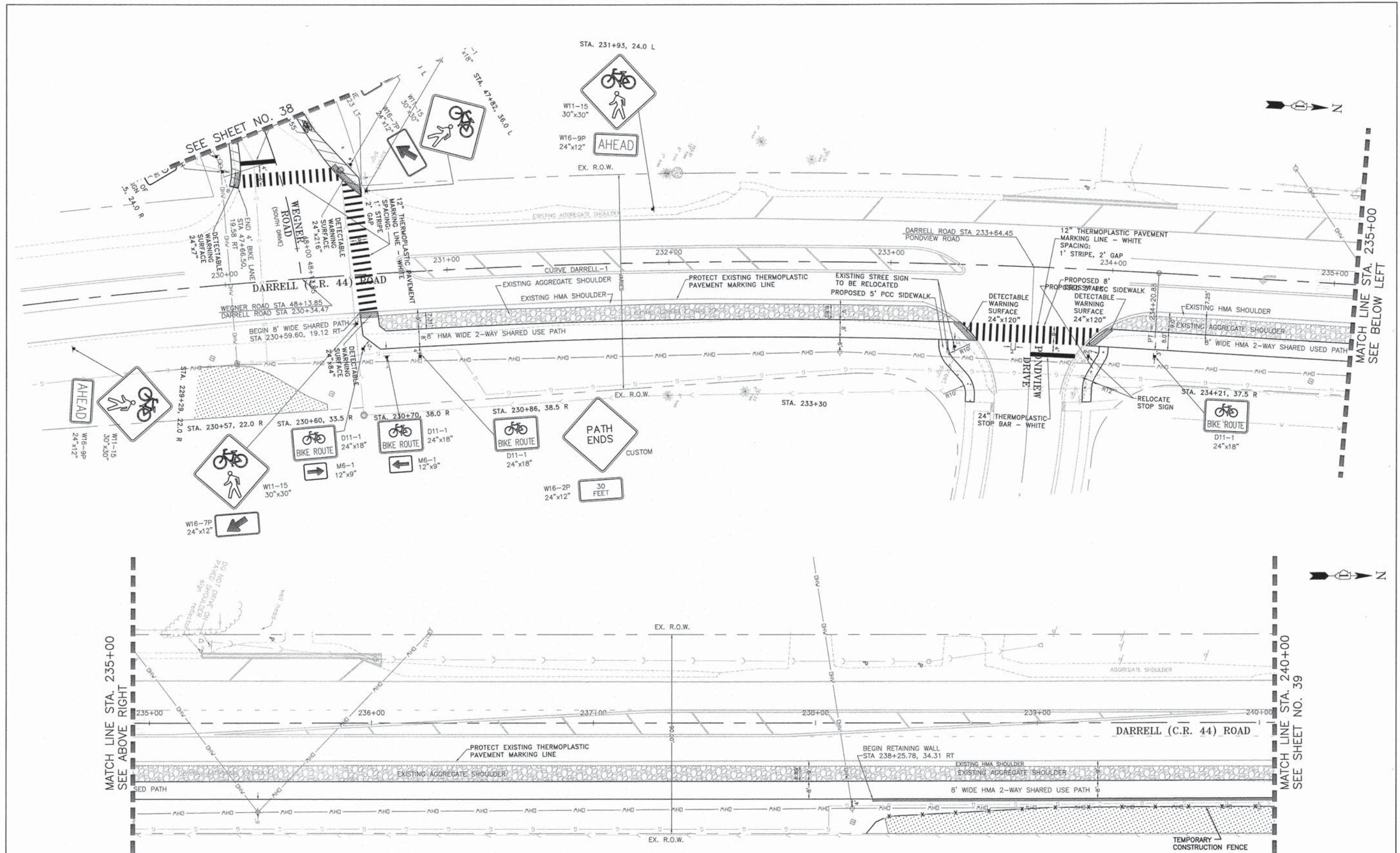
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
 WEGNER ROAD**

SCALE: 1"=20' STA. 40+00 TO STA. 48+13.85

F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 64
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D(997)				

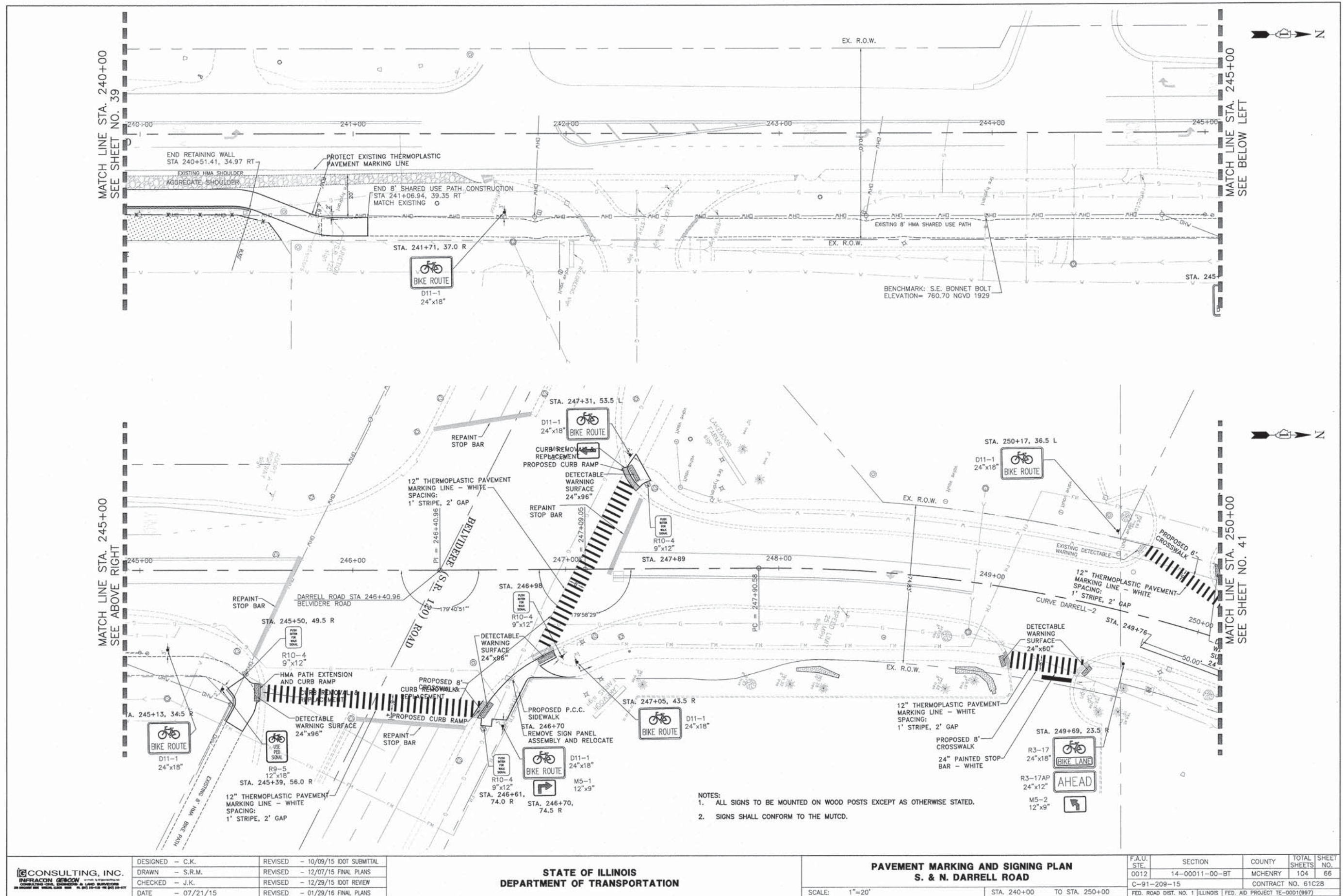


NOTES:
 1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING PLAN S. DARRELL ROAD		F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 65
SCALE: 1"=20'		STA. 230+00 TO STA. 240+00		CONTRACT NO. 61C28		
				FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT TE-0001(997)		



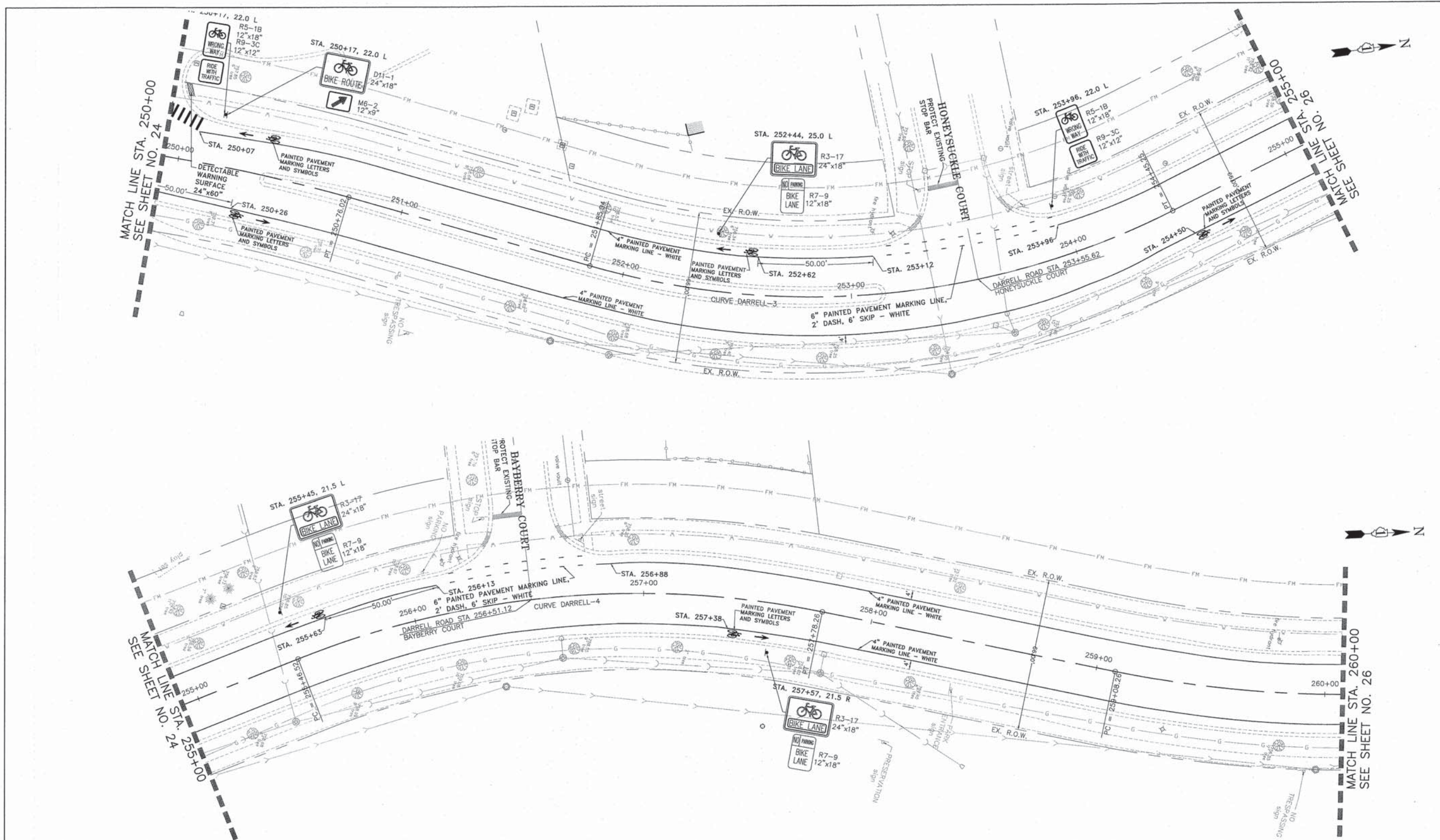
- NOTES:
 1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

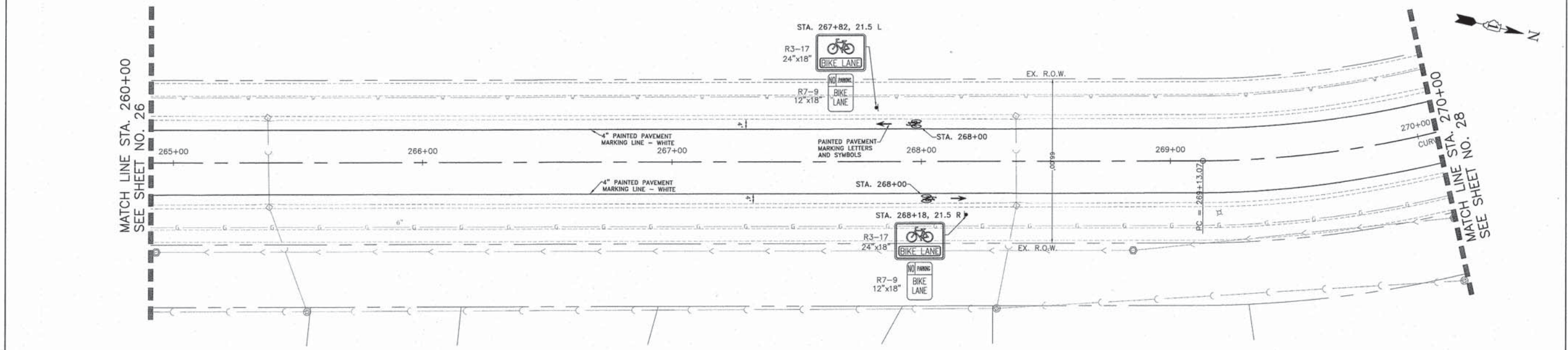
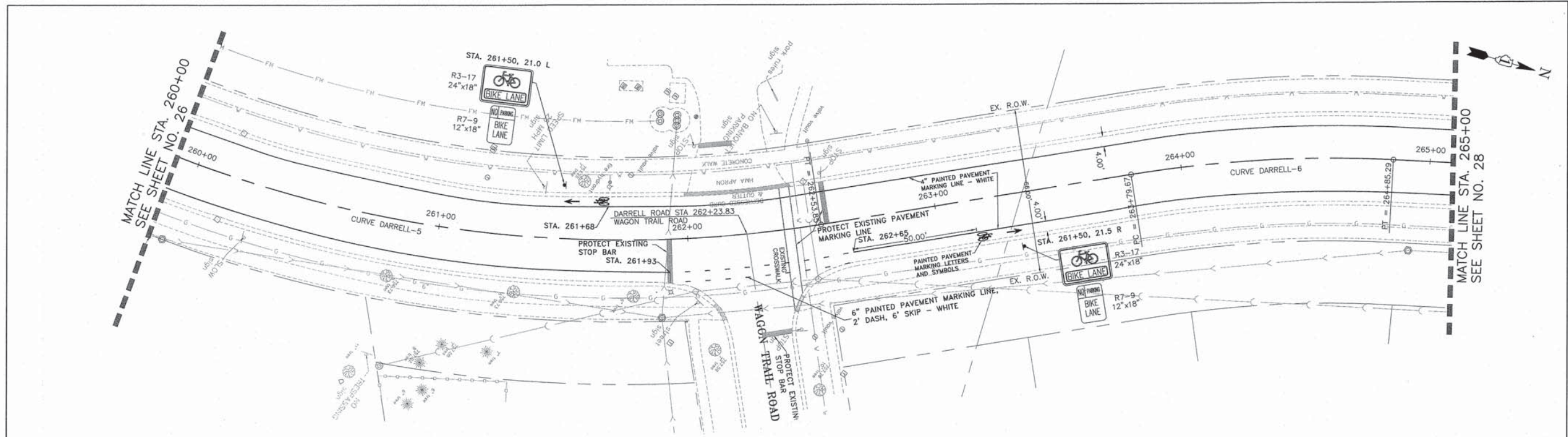
PAVEMENT MARKING AND SIGNING PLAN S. & N. DARRELL ROAD	
SCALE: 1"=20'	STA. 240+00 TO STA. 250+00

F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 66
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



- NOTES:
1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

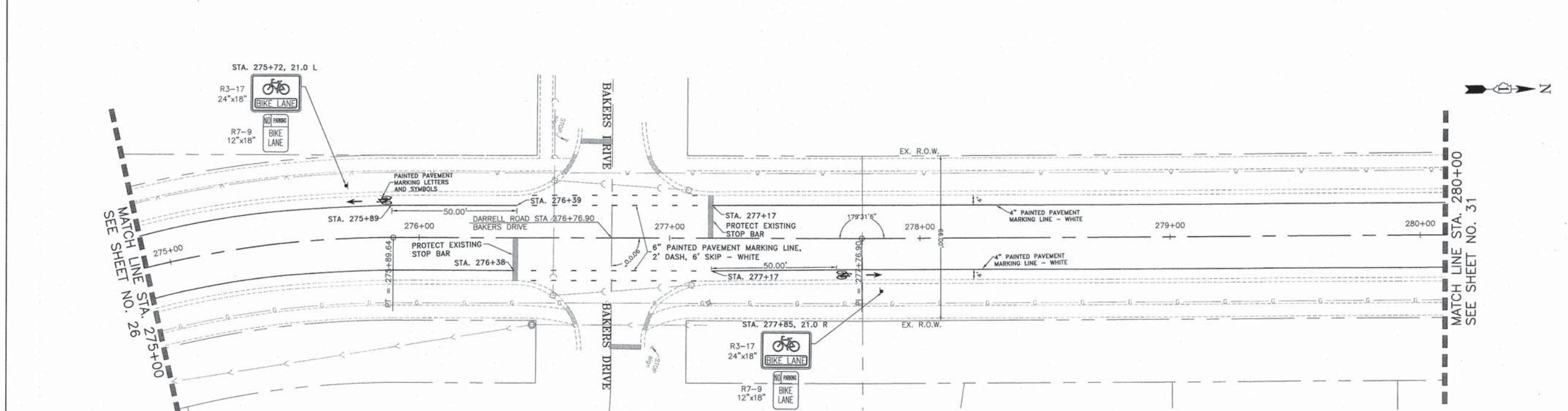
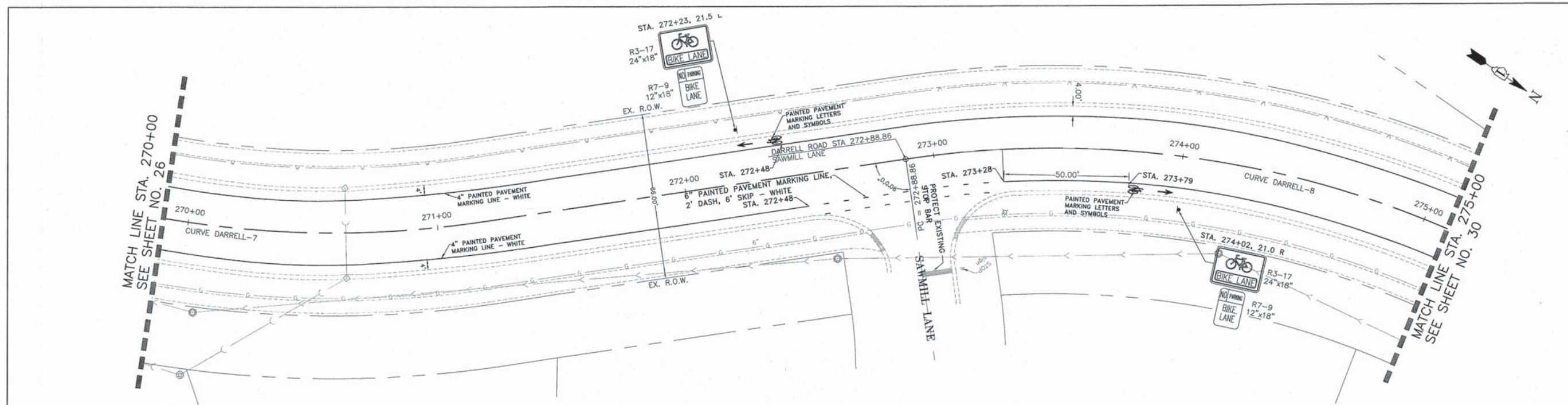
	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN N. DARRELL ROAD		F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS		0012	14-00011-00-BT	MCHENRY	104	67		
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW		SCALE: 1"=20'		STA. 250+00 TO STA. 260+00		C-91-209-15	CONTRACT NO. 61C28	
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS				FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT TE-0001(997)		



- NOTES:
1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

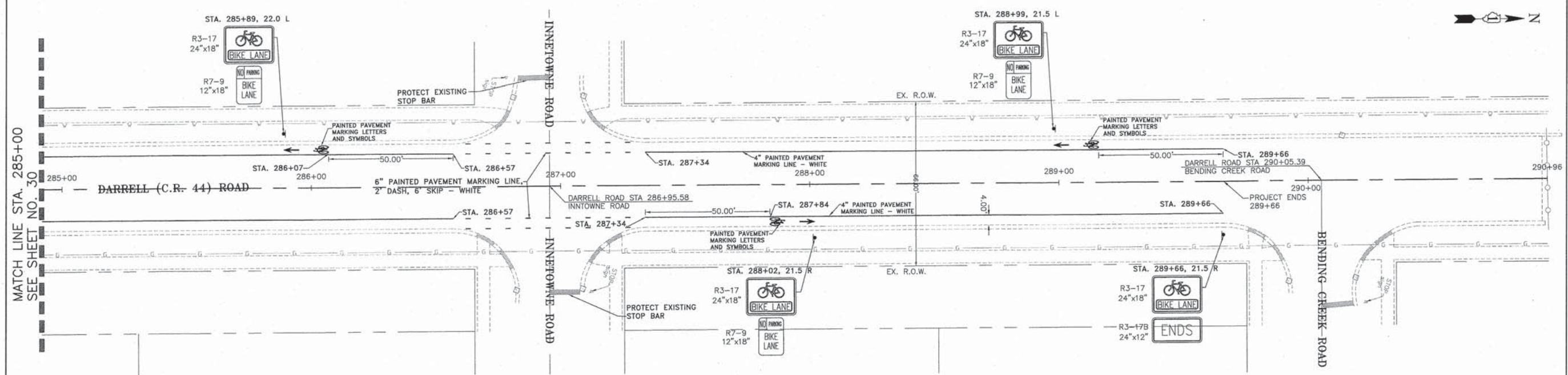
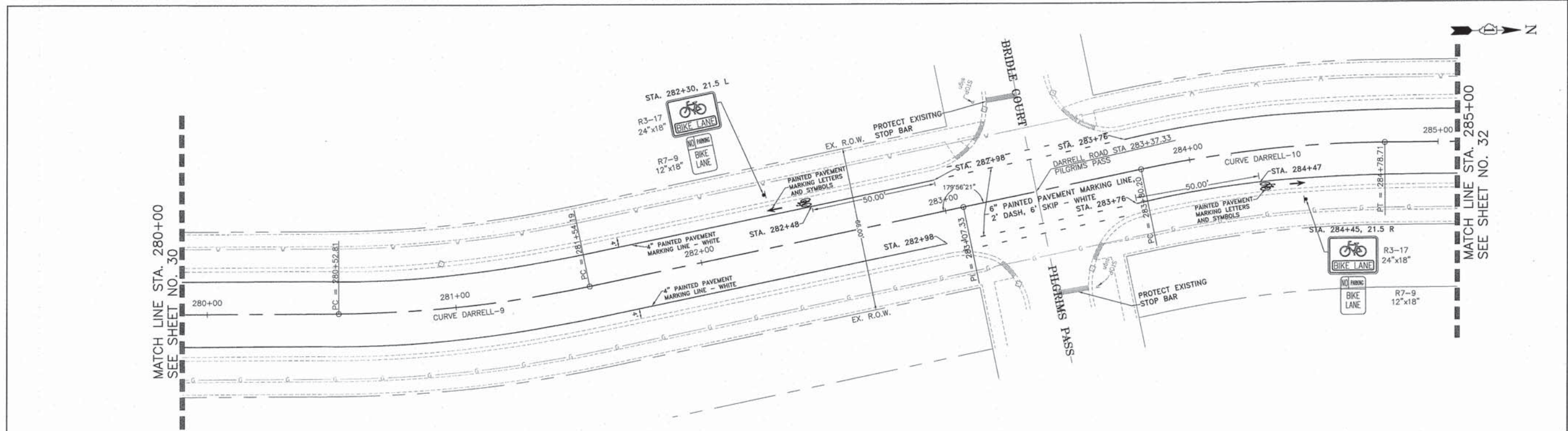
CONSULTING, INC. INFRACON GEOSCON <small>CONSULTING ENGINEERS & LAND SURVEYORS</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN N. DARRELL ROAD	F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS			0012	14-00011-00-BT	MCHENRY	104	68	
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW			C-91-209-15		CONTRACT NO. 61C28			
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT YE-0001997					

SCALE: 1"=20' STA. 260+00 TO STA. 270+00



- NOTES:
1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN N. DARRELL ROAD		F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS		0012	14-00011-00-BT	MCHENRY	104	69			
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW		SCALE: 1"=20'		STA. 270+00 TO STA. 280+00		C-91-209-15		CONTRACT NO. 61C28	
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)							



- NOTES:
1. ALL SIGNS TO BE MOUNTED ON WOOD POSTS EXCEPT AS OTHERWISE STATED.
 2. SIGNS SHALL CONFORM TO THE MUTCD.

	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN N. DARRELL ROAD		F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS		0012	14-00011-00-BT	MCHENRY	104	70		
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW		C-91-209-15		CONTRACT NO. 61C28				
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS		SCALE: 1"=20'		STA. 280+00 TO STA. 289+66		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(097)		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED																		
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE																					
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE																					
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA																					
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED																					
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F																					
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F																					
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F																					
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F																					
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE																					
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED																					
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED																					
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR																					
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR																					
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR																					
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">EXISTING</th> <th style="width: 25%;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td>RAILROAD CONTROL CABINET</td> <td></td> <td></td> </tr> <tr> <td>RAILROAD CANTILEVER MAST ARM</td> <td></td> <td></td> </tr> <tr> <td>FLASHING SIGNAL</td> <td></td> <td></td> </tr> <tr> <td>CROSSING GATE</td> <td></td> <td></td> </tr> <tr> <td>CROSSBUCK</td> <td></td> <td></td> </tr> </tbody> </table>					EXISTING	PROPOSED	RAILROAD CONTROL CABINET			RAILROAD CANTILEVER MAST ARM			FLASHING SIGNAL			CROSSING GATE			CROSSBUCK		
	EXISTING	PROPOSED																											
RAILROAD CONTROL CABINET																													
RAILROAD CANTILEVER MAST ARM																													
FLASHING SIGNAL																													
CROSSING GATE																													
CROSSBUCK																													
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED																									
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																									
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																									
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT																									
DETECTOR LOOP, TYPE I				RADIO REPEATER																									
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																									
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																									
VIDEO DETECTION CAMERA																													
VIDEO DETECTION ZONE																													
PAN, TILT, ZOOM CAMERA																													
WIRELESS DETECTOR SENSOR																													
WIRELESS ACCESS POINT																													

CONSULTING, INC. <small>ENGINEERING CONSULTING ARCHITECTURE</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

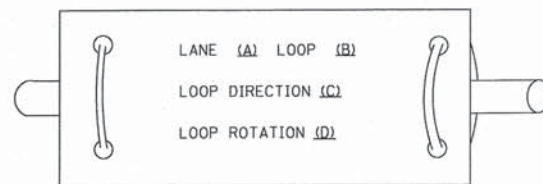
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	STA. TO STA.

F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 71
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

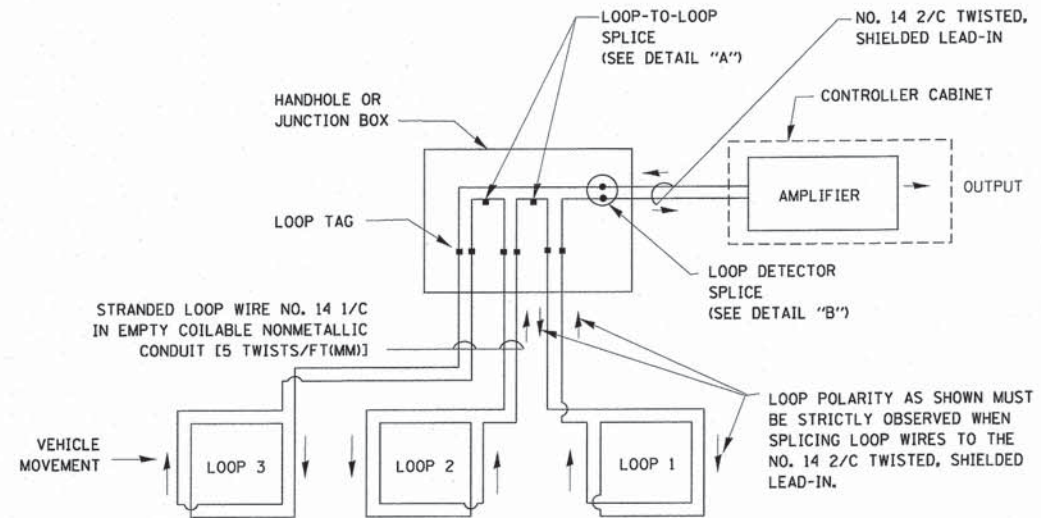
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

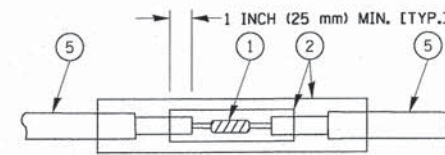


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

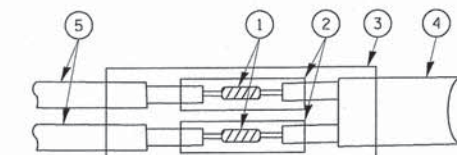


DETECTOR LOOP WIRING SCHEMATIC

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

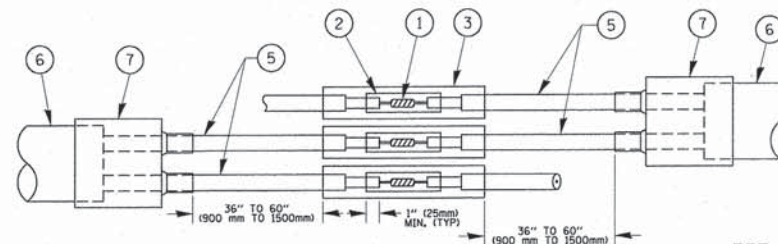


DETAIL "A"
LOOP-TO-LOOP SPLICE



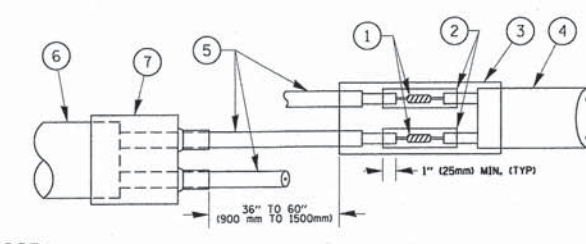
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

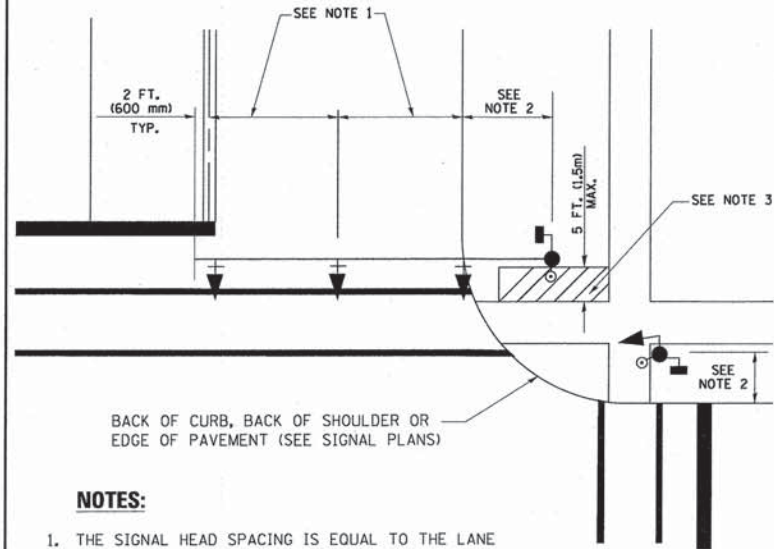
	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	72
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(097)				

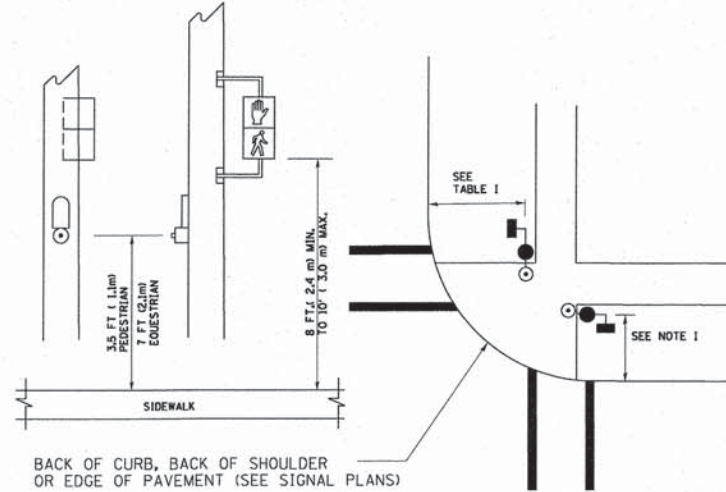
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

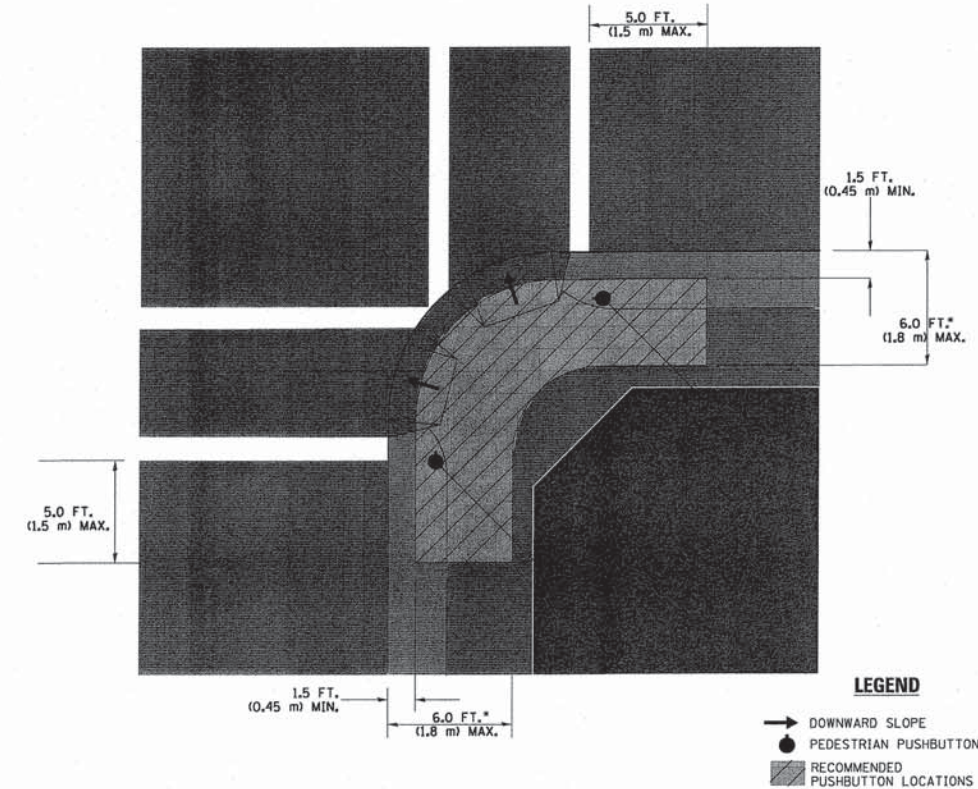
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

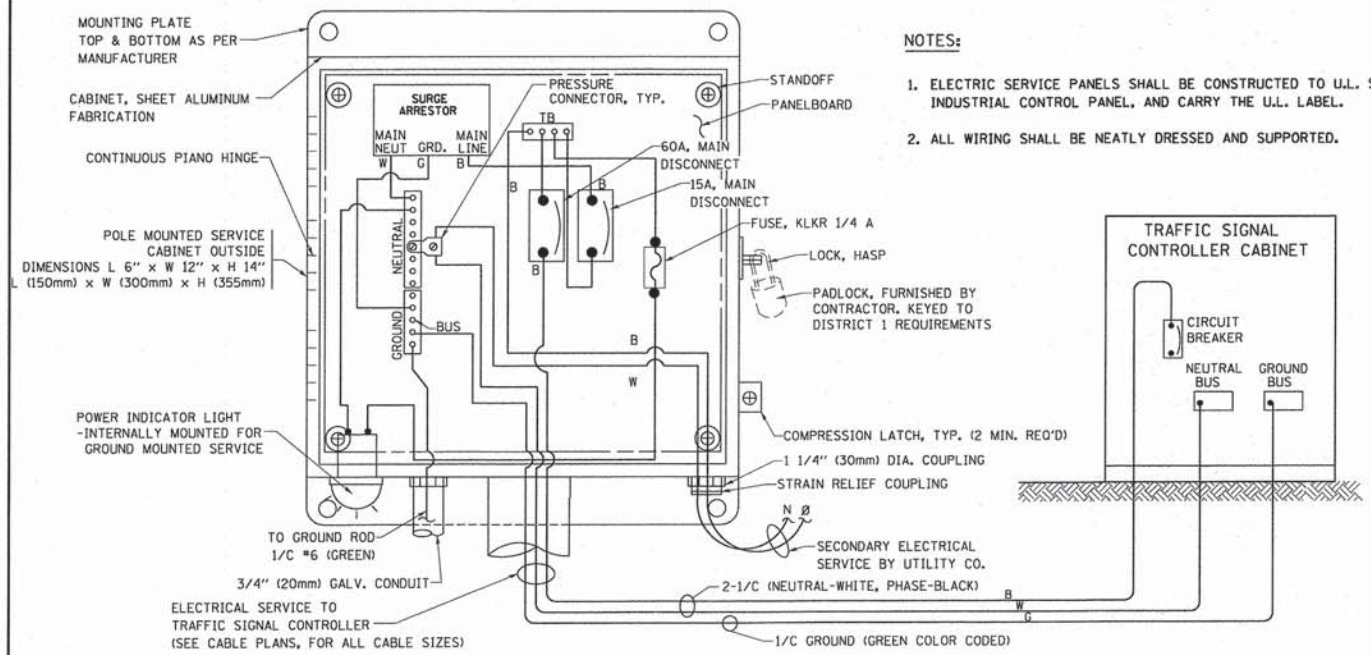
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

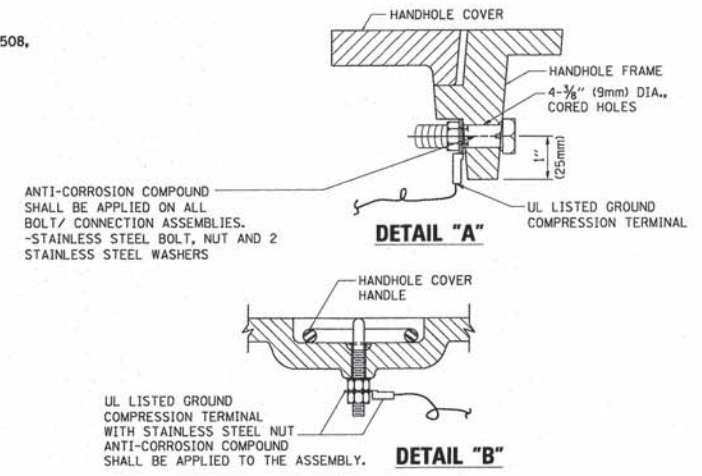
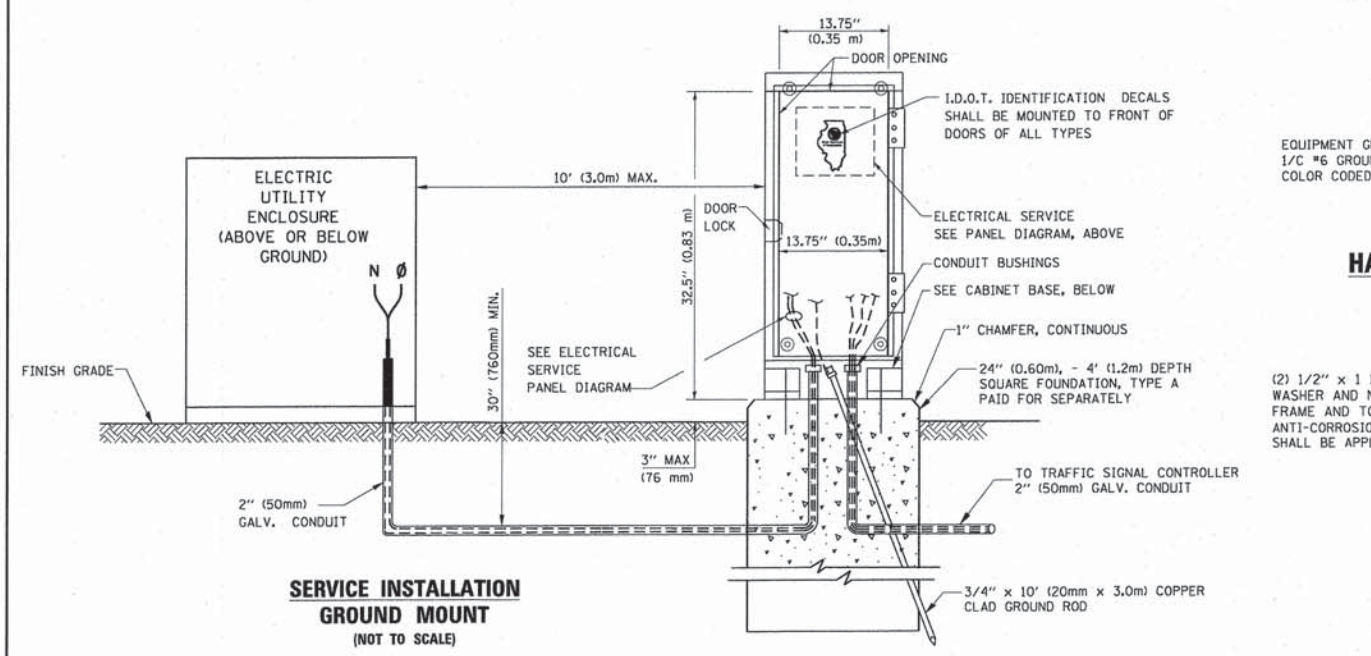
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STA. TO STA.

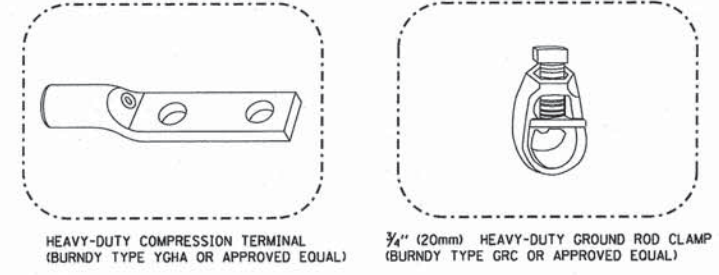
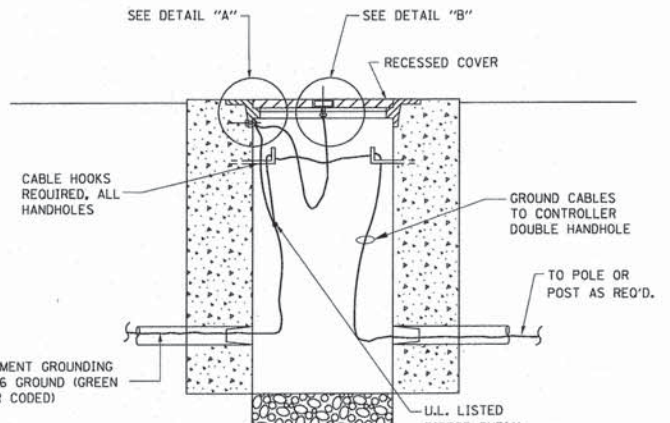
F.A.U. SITE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	73
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				



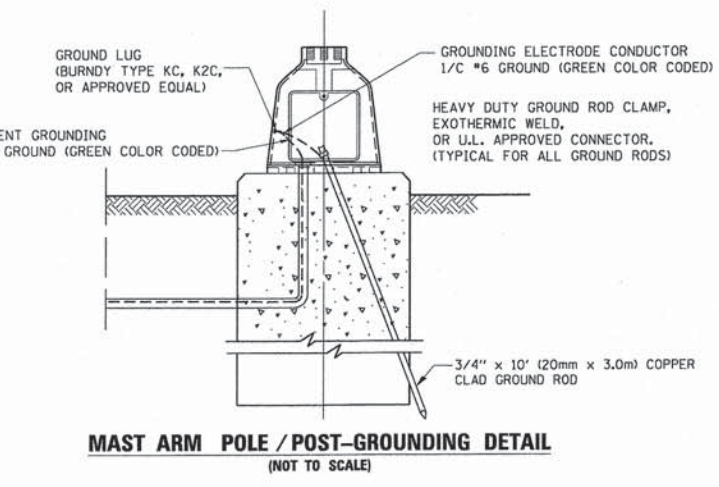
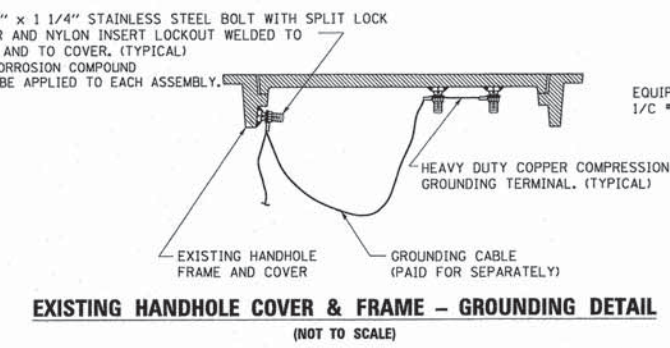
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



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



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

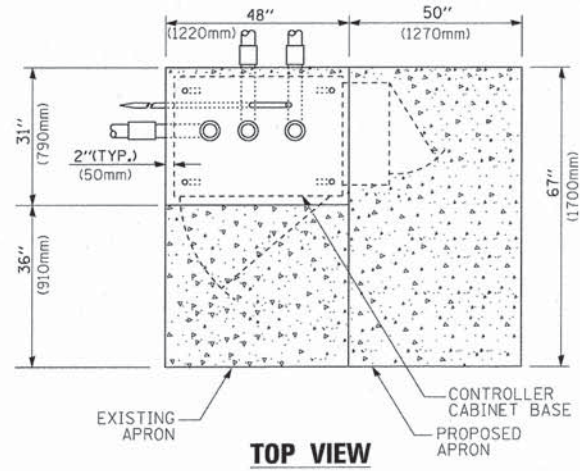


DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

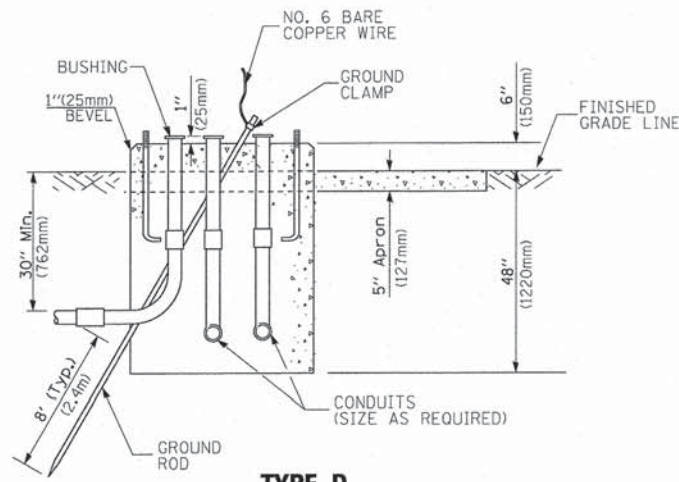
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	STA. TO STA.

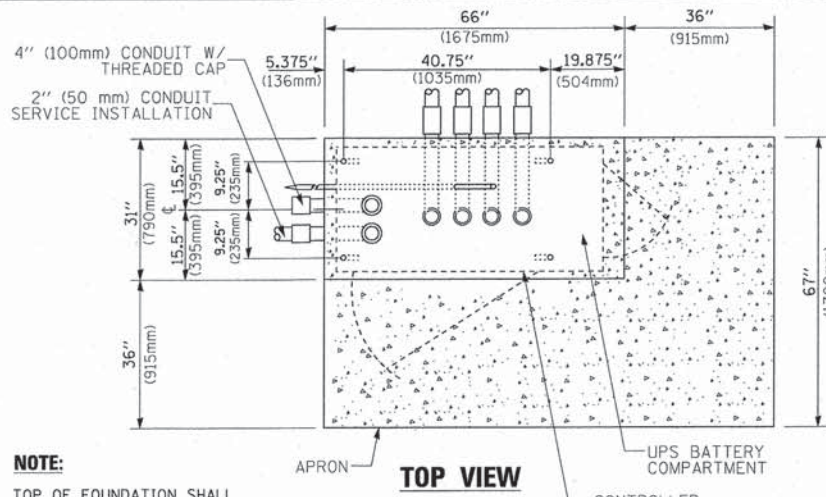
F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 74
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



TOP VIEW

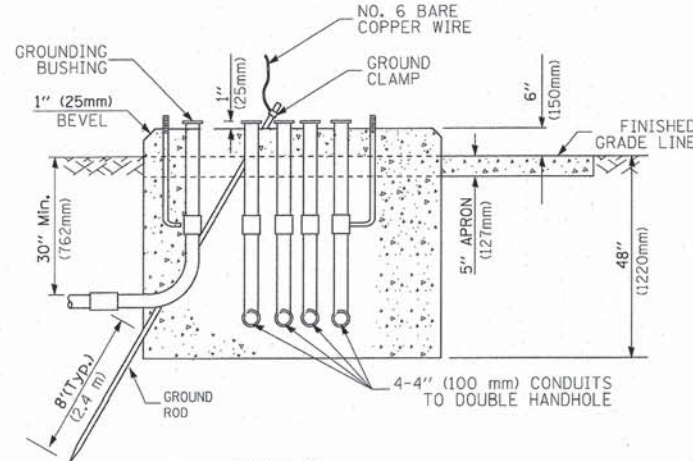


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

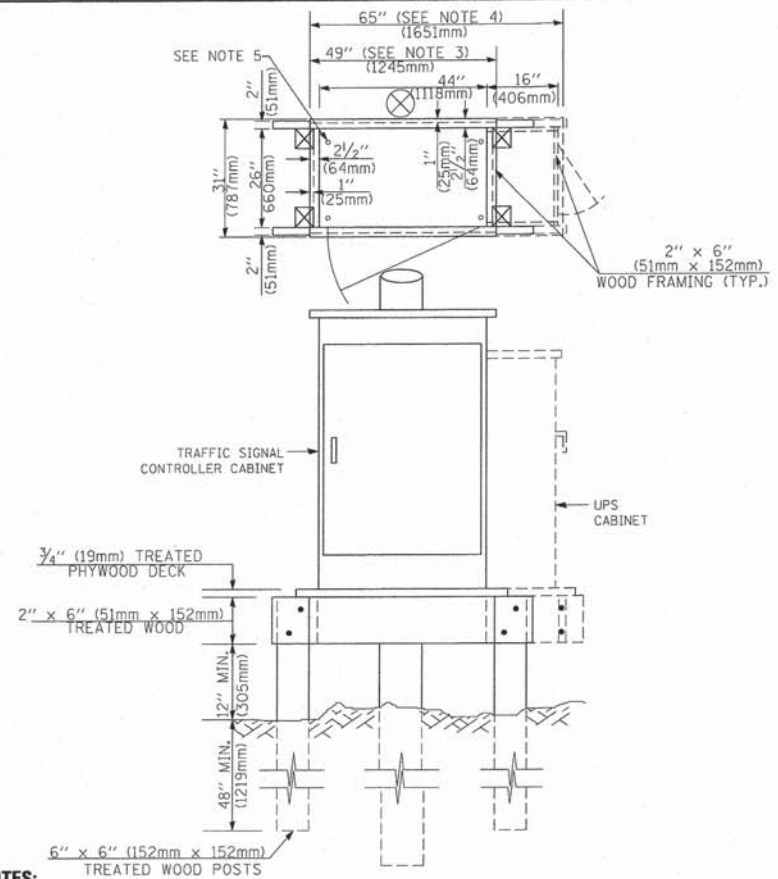


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

CONSULTING, INC.
ENGINEERING, ARCHITECTURE & LAND SURVEYING
CONSULTING, INC., GEORGETOWN, MD

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

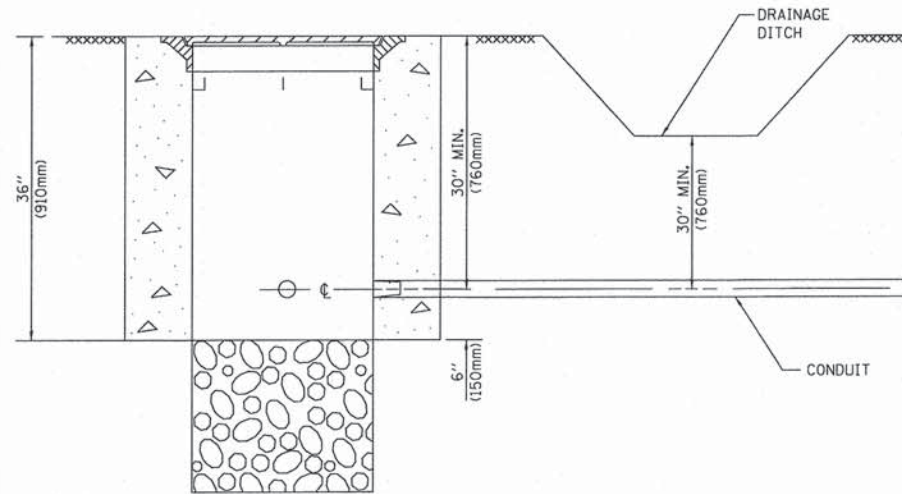
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE

STA. TO STA.

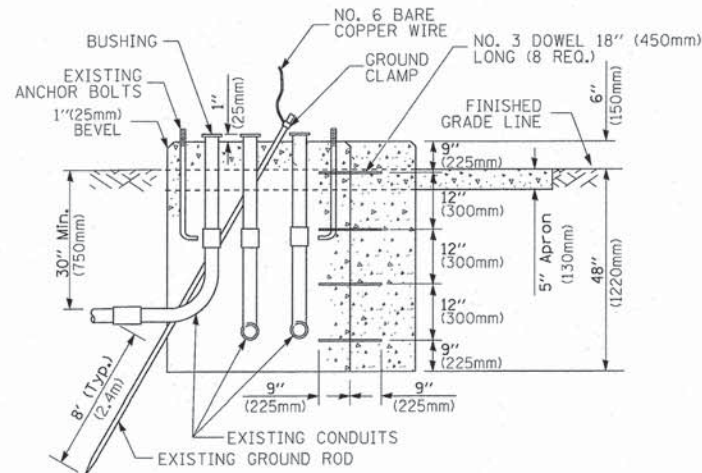
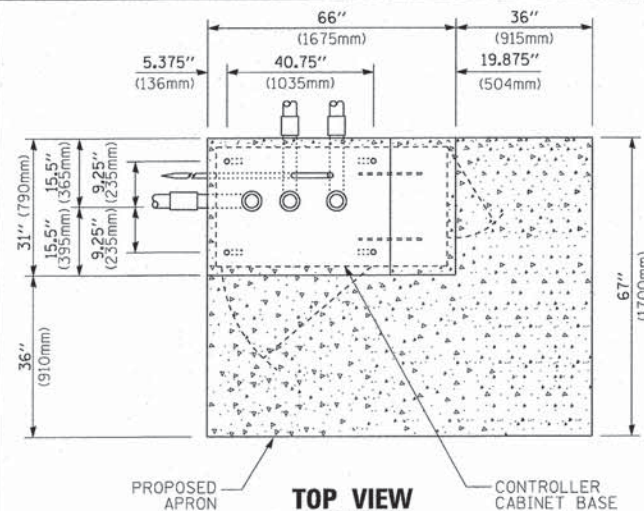
F.A.U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	75
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



NOTES:

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

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

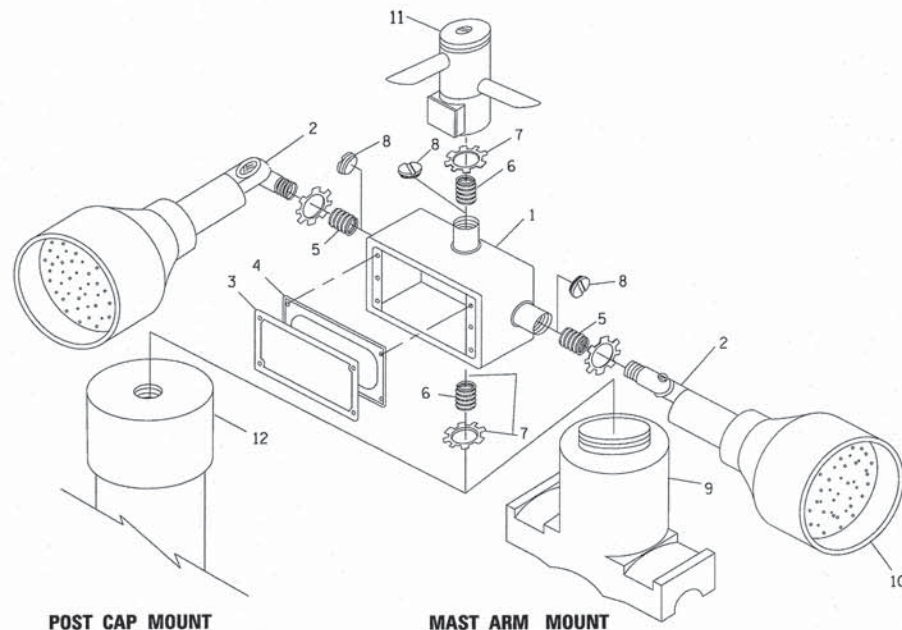


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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

NOTES:

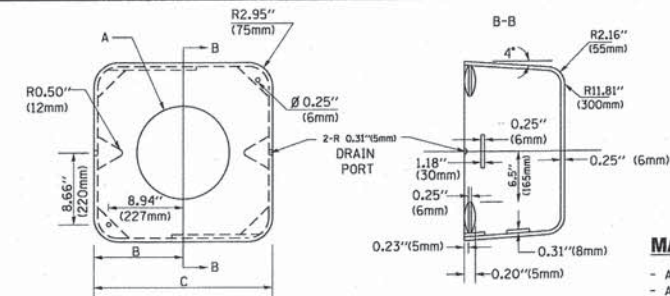
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



MATERIAL:

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

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

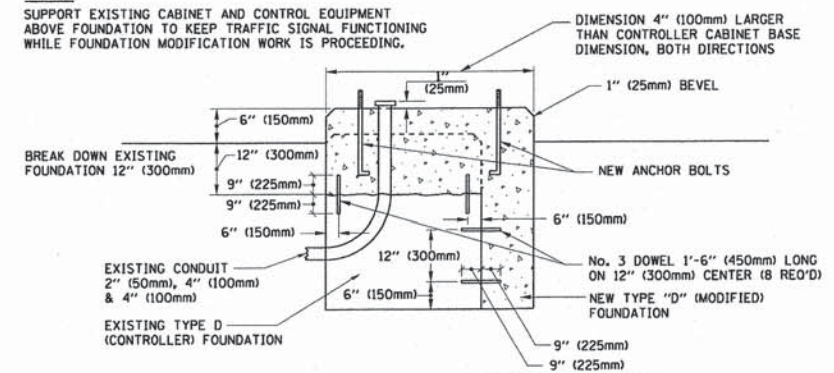
SHROUD

NOTES:

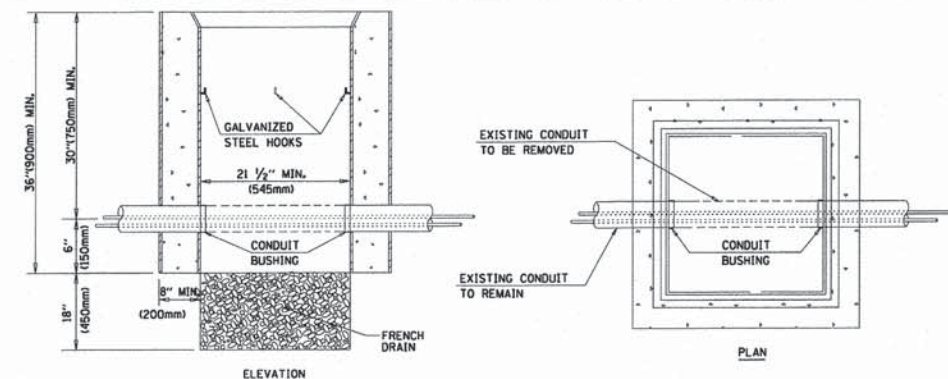
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

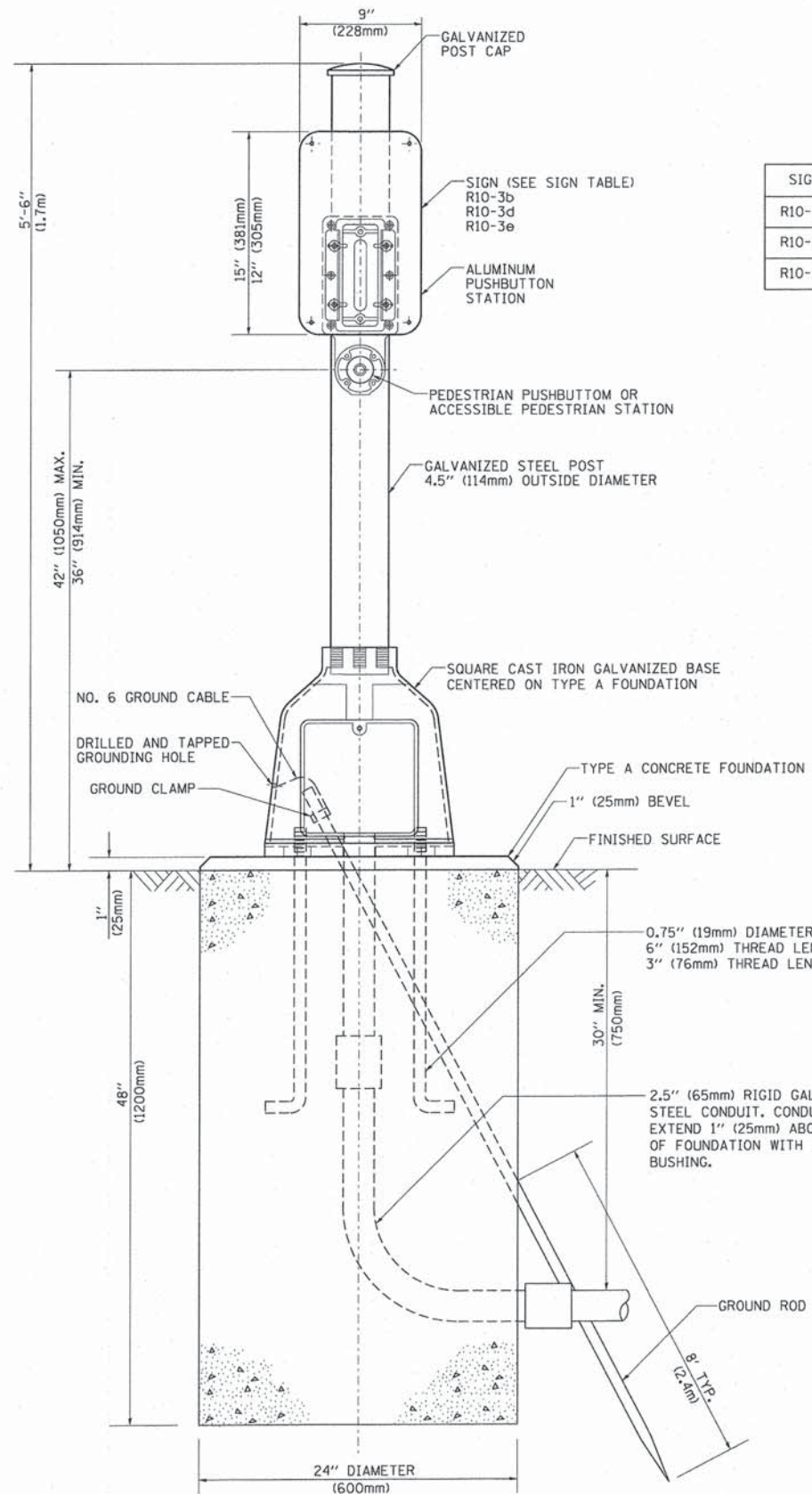
	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

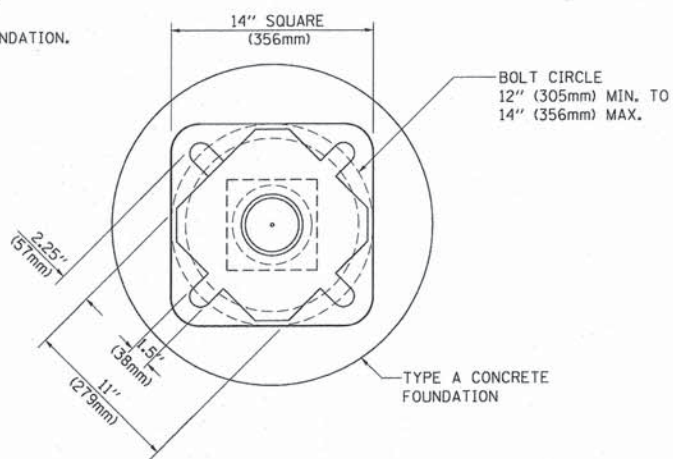
SCALE: NONE STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	76
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



SIGN TABLE

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



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

CONSULTING, INC.
 INFILACON DESIGN
 CONSULTING, INC. A LANE SUBSIDIARY
 1000 N. W. 10th St., Suite 100, Ft. Lauderdale, FL 33304-4000

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
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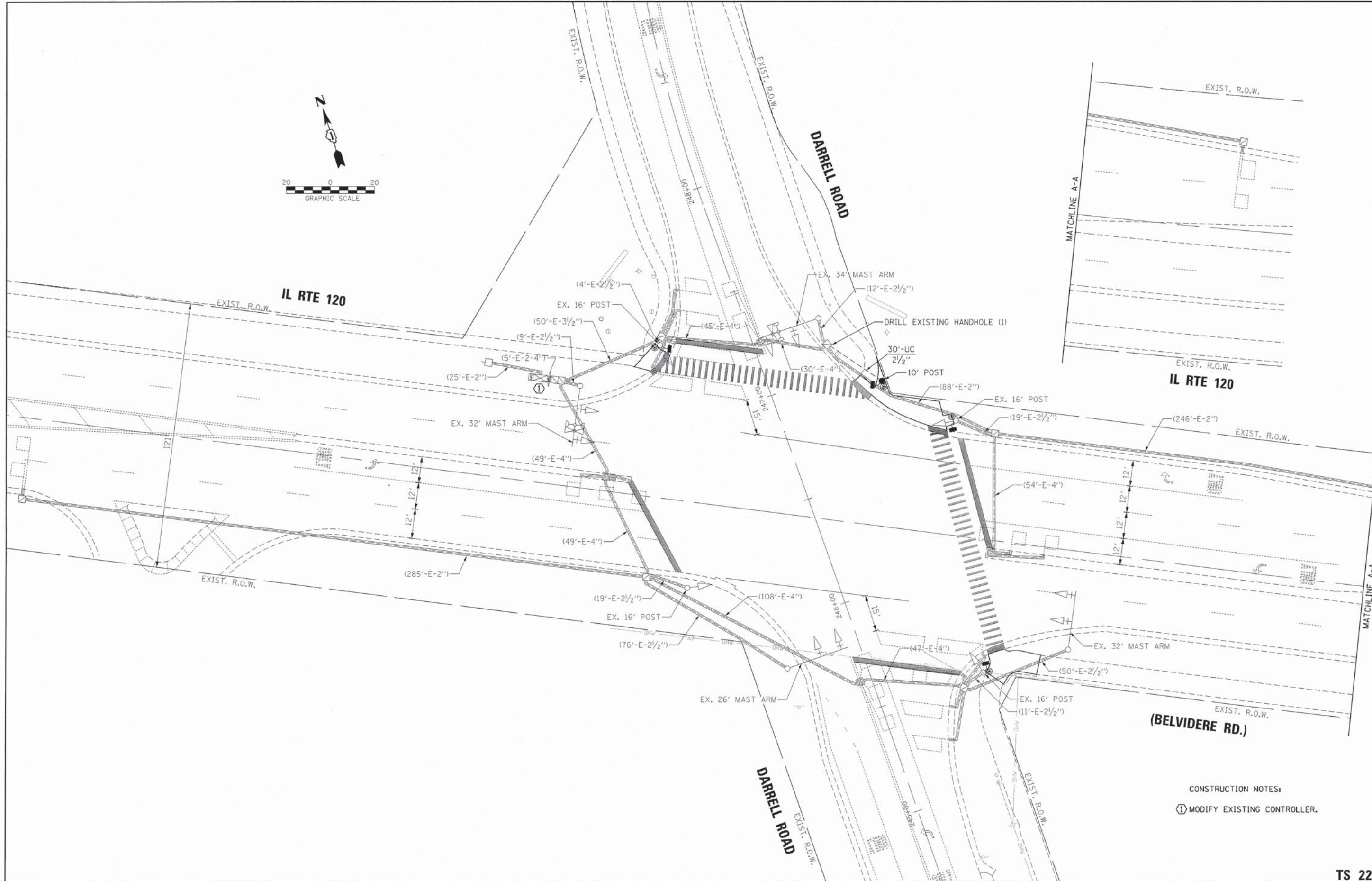
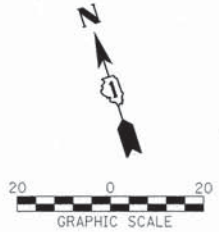
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	77
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



CONSTRUCTION NOTES:
 (1) MODIFY EXISTING CONTROLLER.

TS 22102

DESIGNED - TCM	REVISED -
DRAWN - TCM	REVISED -
CHECKED - MKS	REVISED -
DATE - 01/13/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
 IL RTE 120 (BELVIDERE RD.) AT DARRELL ROAD

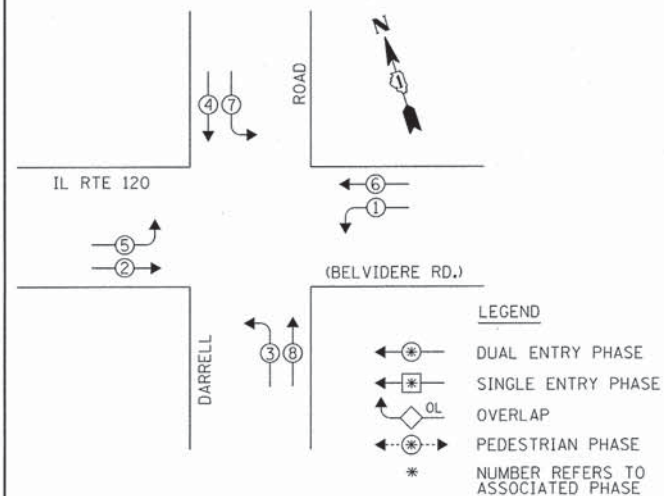
SCALE: 1" = 20'

STA. TO STA.

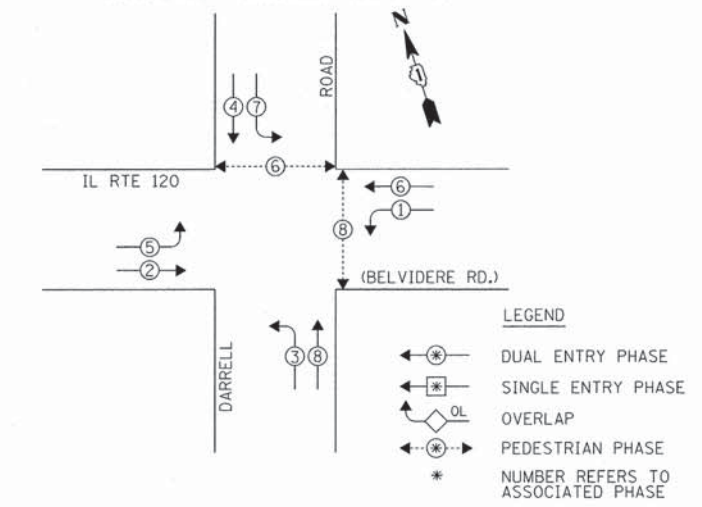
F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	McHenry	104	78
C-91-209-15		CONTRACT NO. 61C38		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				



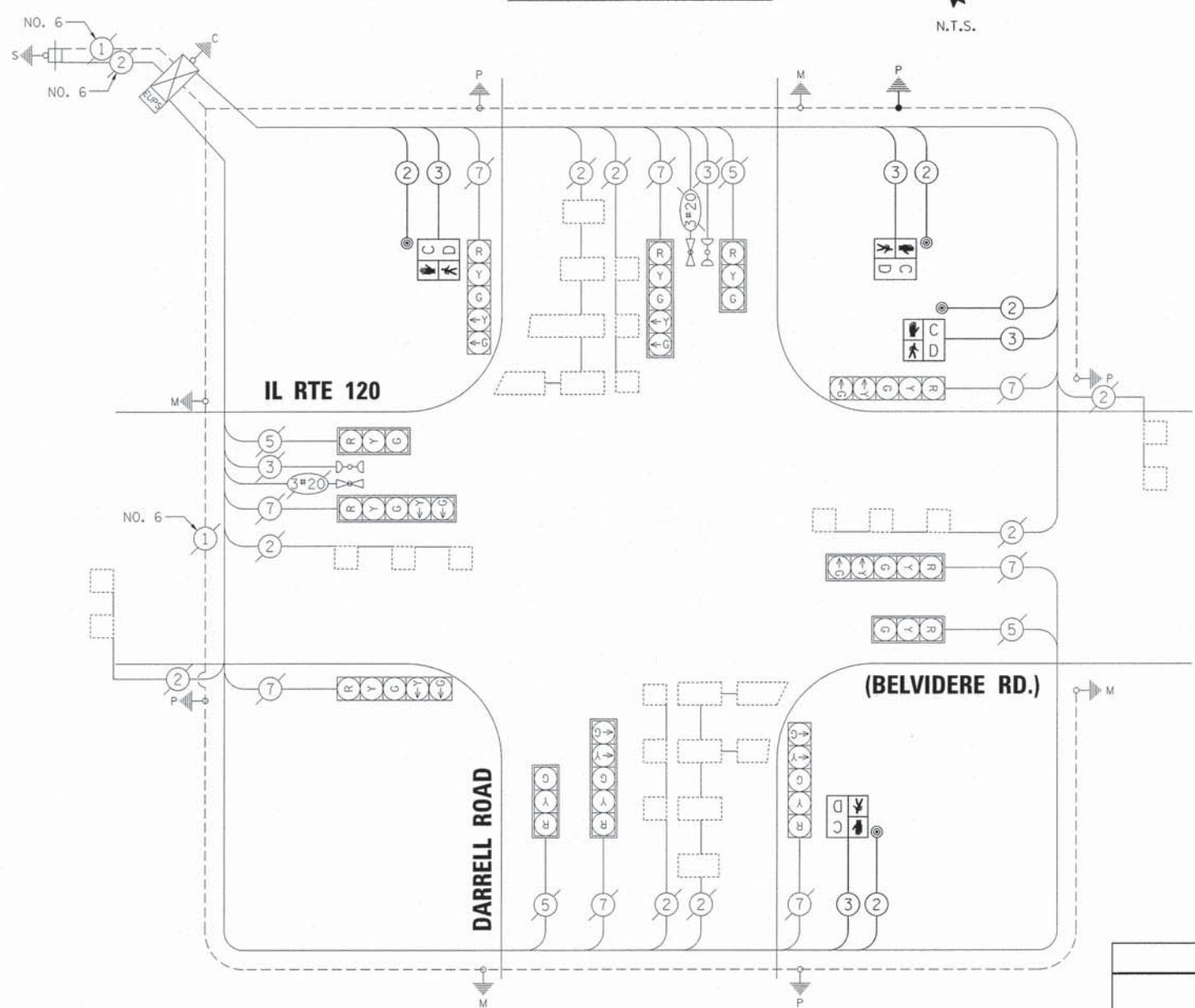
EXISTING CONTROLLER SEQUENCE



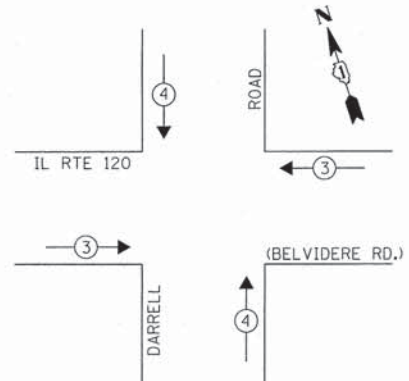
PROPOSED CONTROLLER SEQUENCE



PROPOSED CABLE PLAN



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50.00	66.00
(YELLOW)	12	20	5.00	12.00
(GREEN)	12	12	45.00	64.80
ARROW	16	10	10.0	16.00
PED. SIGNAL	4	20	100.00	-
CONTROLLER	1	100	100.00	100.00
ILLUM. SIGN	-	-	-	-
U.P.S.	1	25	100.00	25.00
TOTAL =				283.80

ENERGY COSTS TO: TOTAL = 283.80

VILLAGE OF LAKEMOOR
28874 W. IL RTE 120, SUITE C & D
LAKEMOOR, IL 60051

ENERGY SUPPLY: CONTACT: RUTH DELGADO
PHONE: (847) 816-5459
COMPANY: COMED

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	30
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	945
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	960
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	45
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
MODIFY EXISTING CONTROLLER	EACH	1

DESIGNED - TCM	REVISED -
DRAWN - TCM	REVISED -
CHECKED - MKS	REVISED -
DATE - 01/13/16	REVISED -

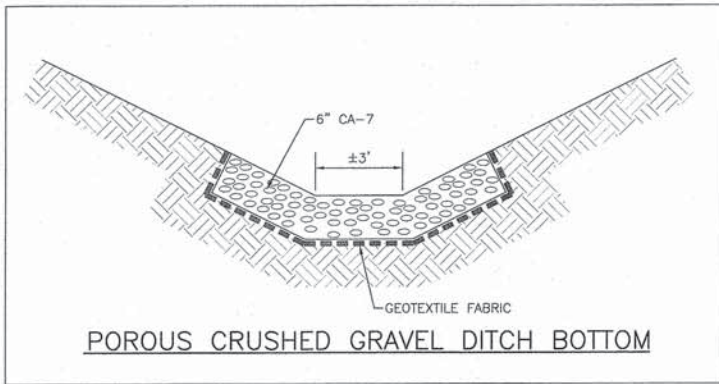
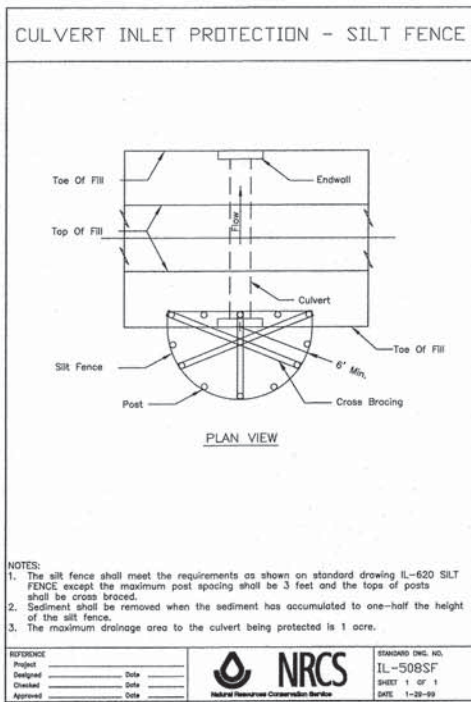
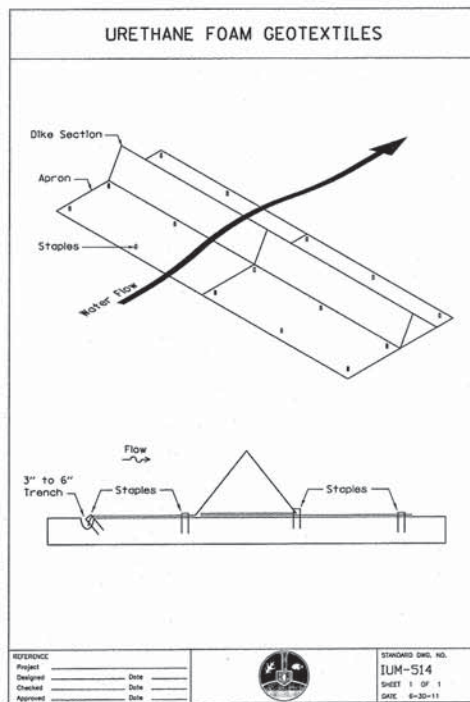
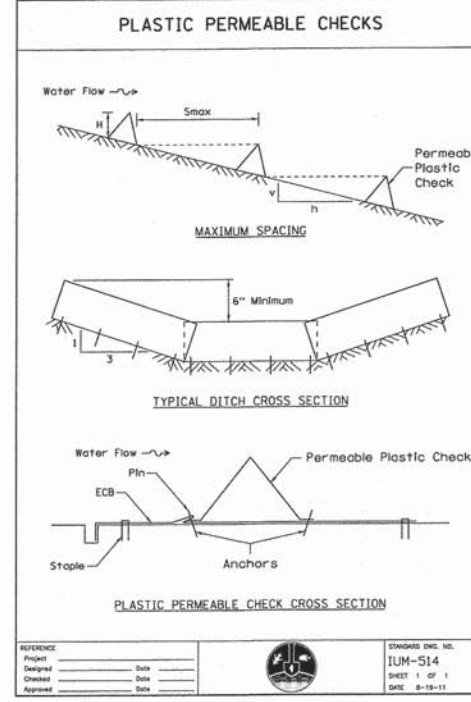
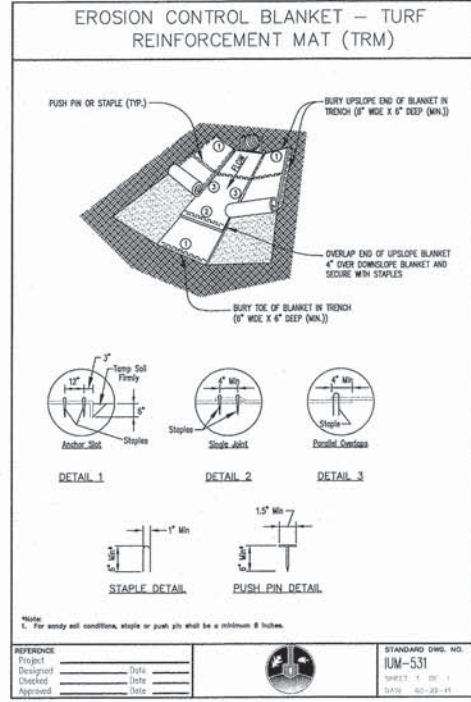
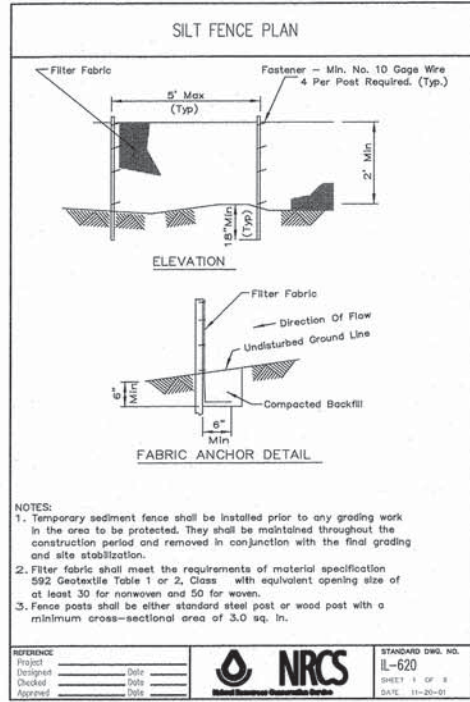
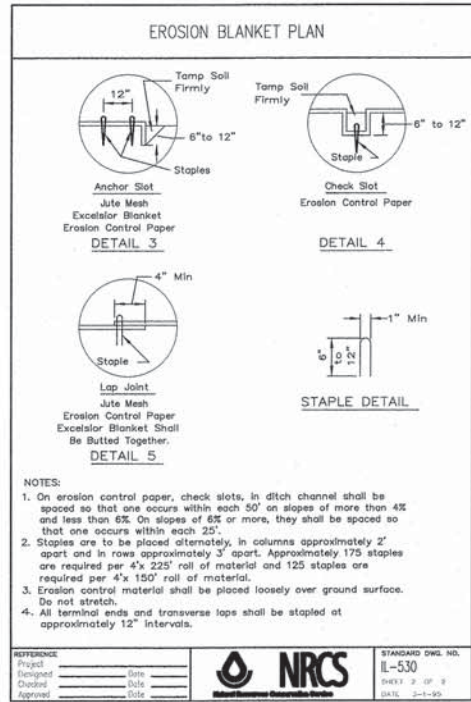
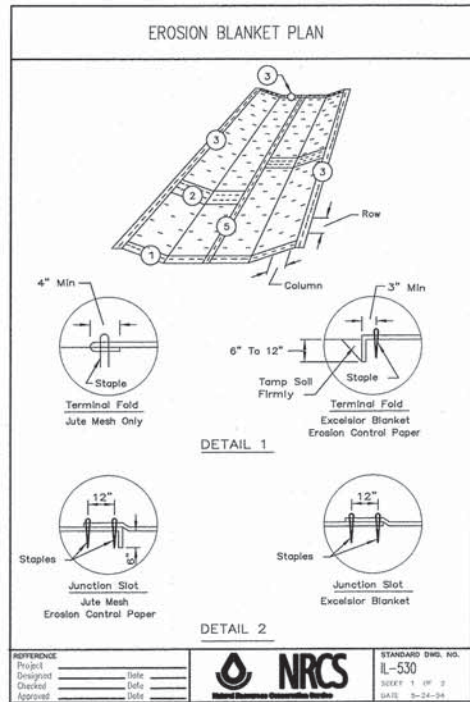
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE & SUMMARY OF QUANTITIES
IL RTE 120 (BELVIDERE RD.) AND DARRELL ROAD

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	McHenry	104	79
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



TS 22102

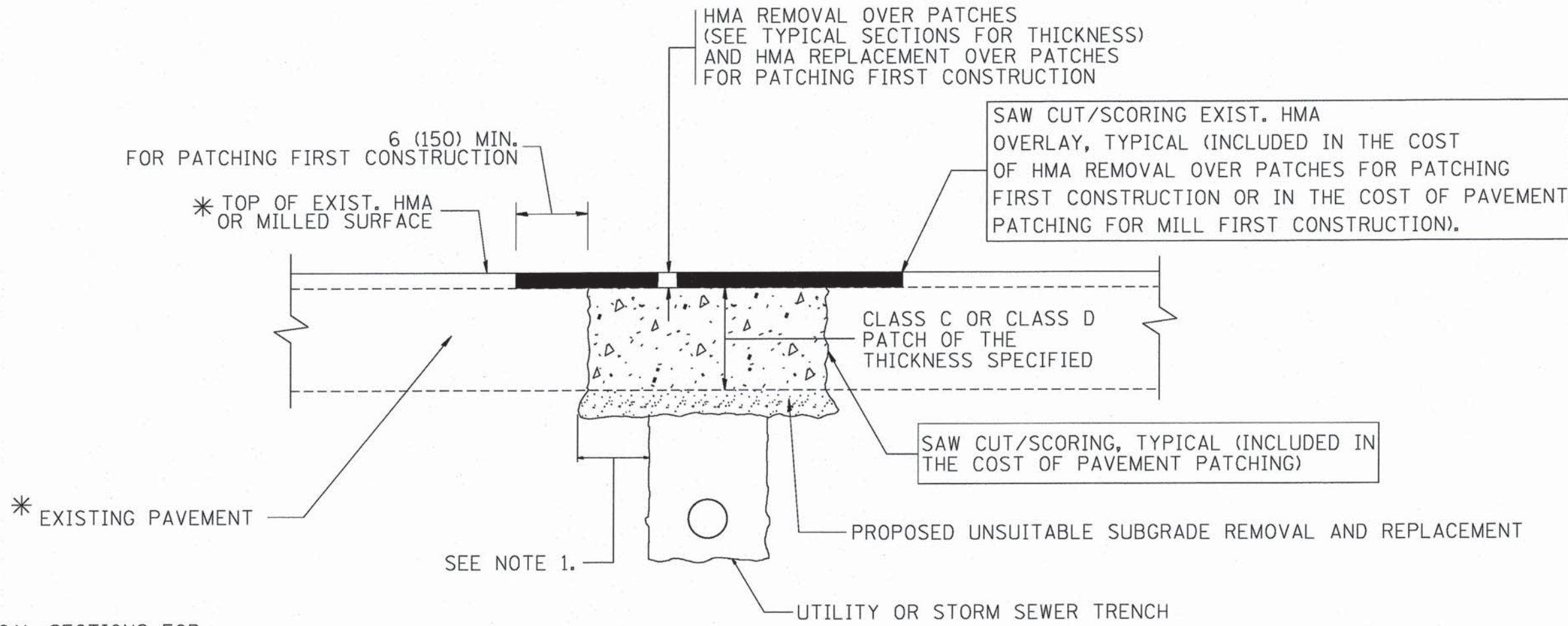


CONSULTING, INC. <small>ENGINEERING, ARCHITECTURE, ENVIRONMENTAL & LAND SURVEYING</small>	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS DETAILS	
SCALE: NONE	STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	80
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



* 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.

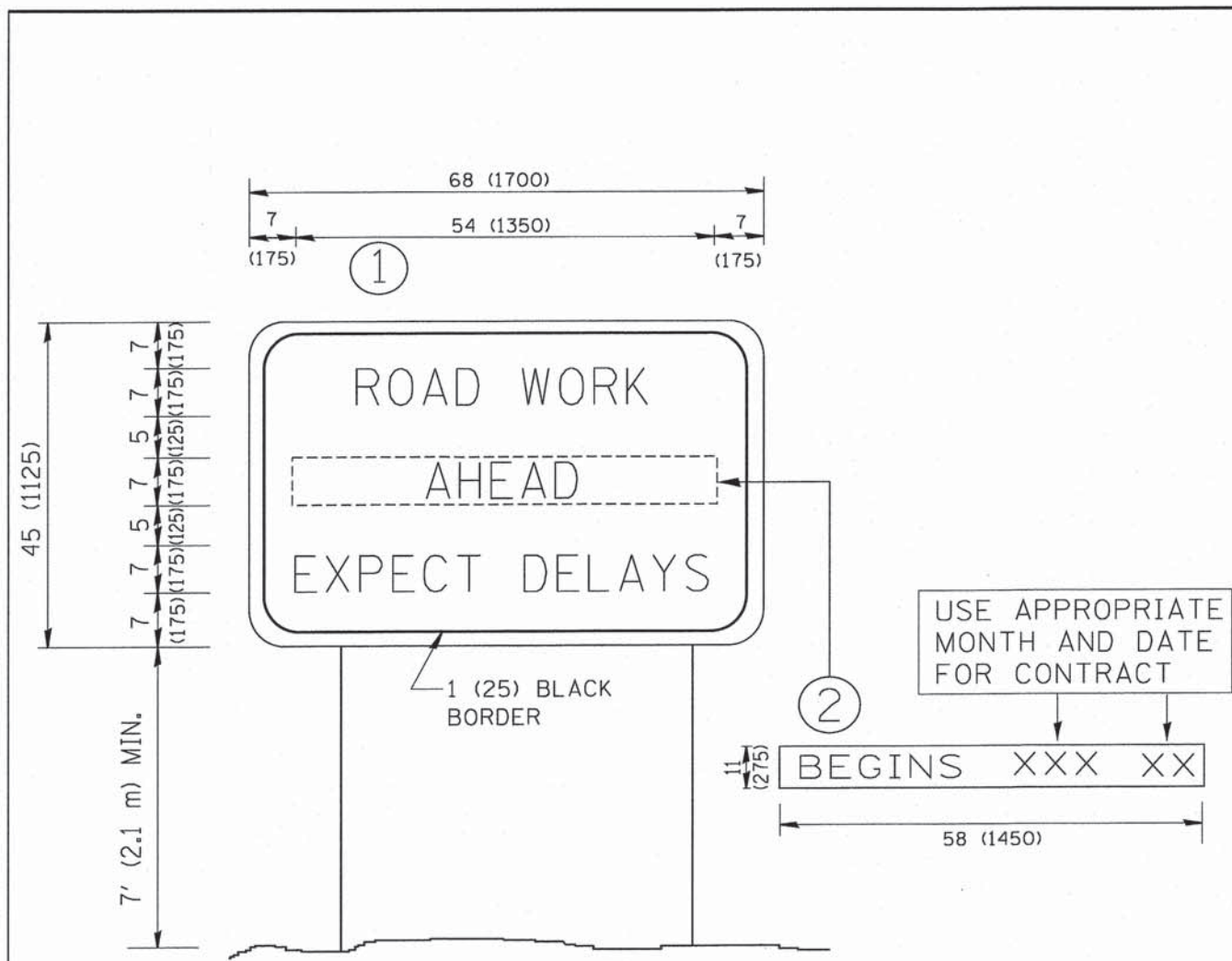
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: NONE STA. TO STA.

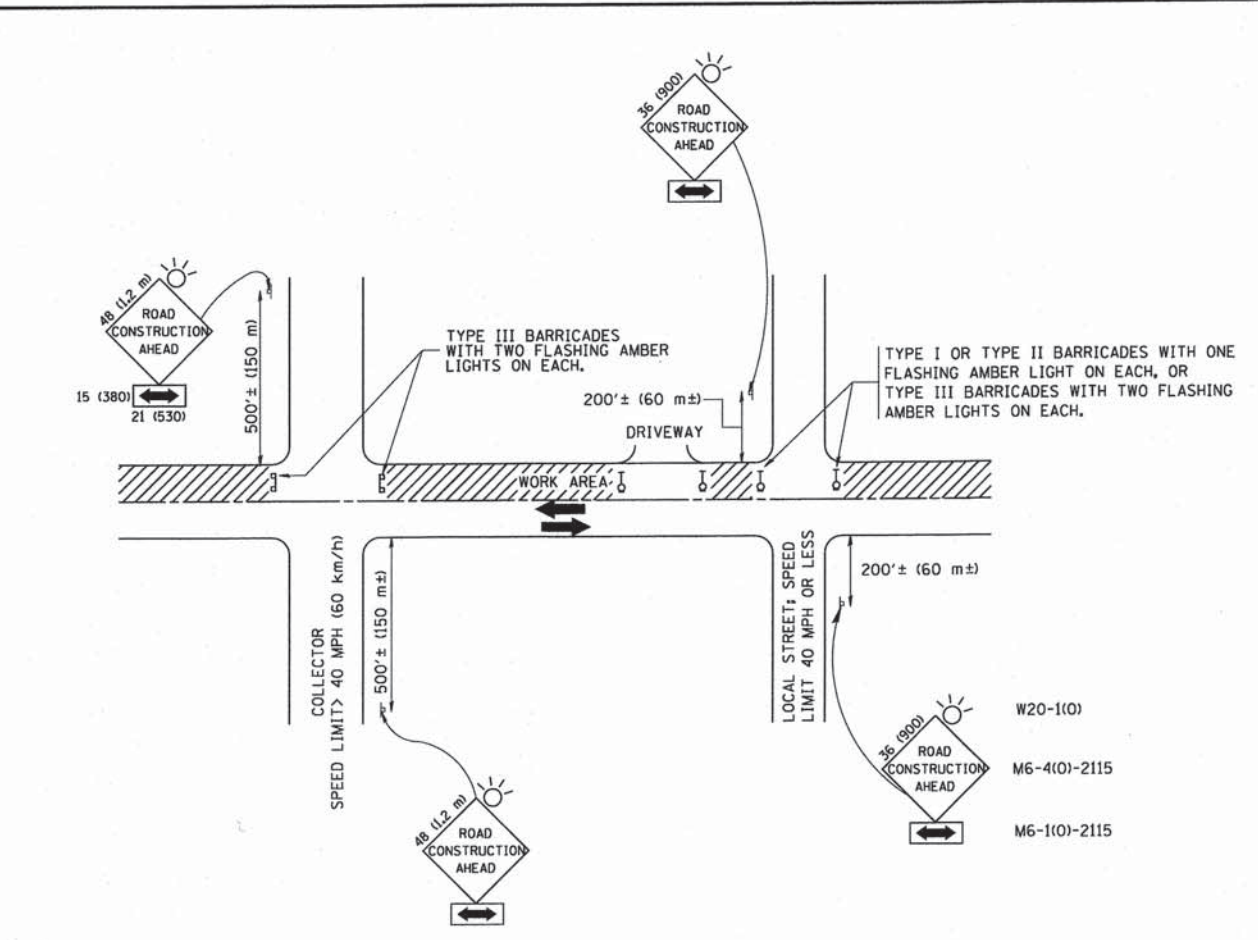
F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	81
BD400-04 (BD-22)		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



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.



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

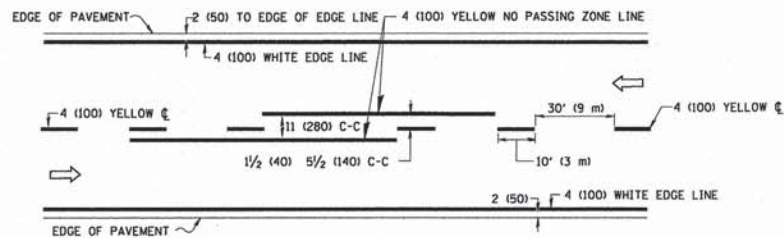
All dimensions are in millimeters (inches) unless otherwise shown.

DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

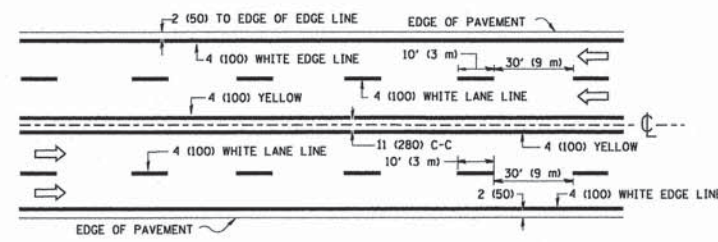
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	
SCALE: NONE	STA. TO STA.

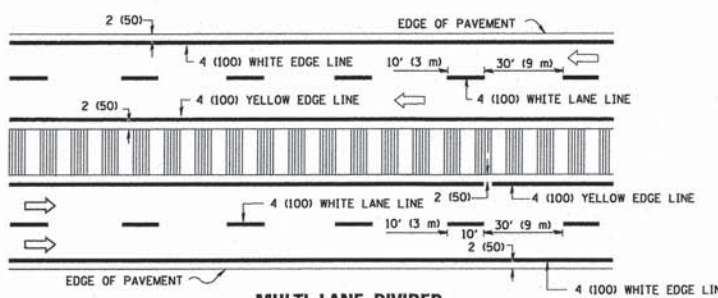
F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	82
TC-10 & TC-22			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



2-LANE ROADWAY

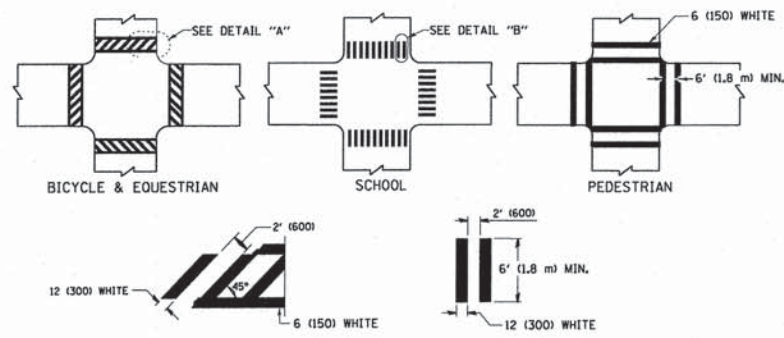


MULTI-LANE UNDIVIDED



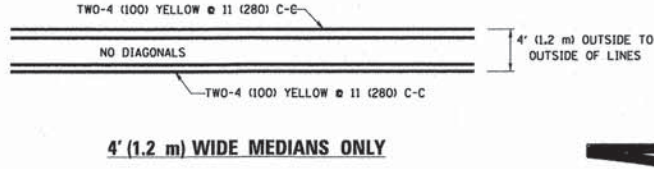
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

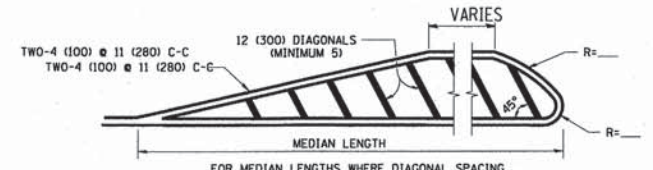


TYPICAL CROSSWALK MARKING

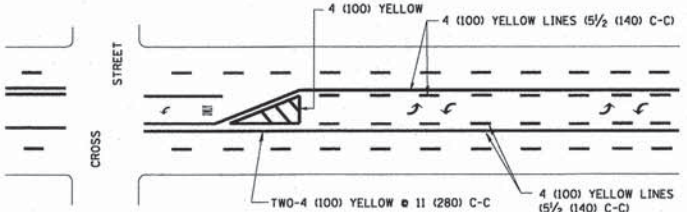
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



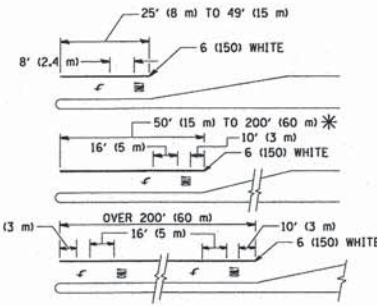
4' (1.2 m) WIDE MEDIANS ONLY



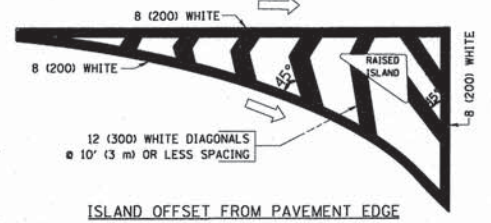
MEDIANS OVER 4' (1.2 m) WIDE



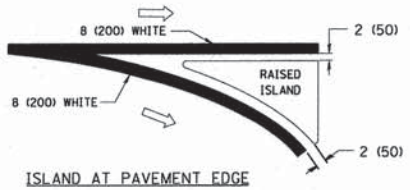
TYPICAL PAINTED MEDIAN MARKING



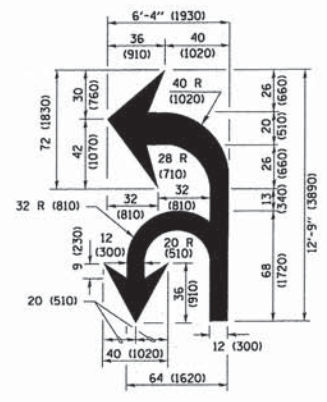
TYPICAL LEFT (OR RIGHT) TURN LANE MARKING



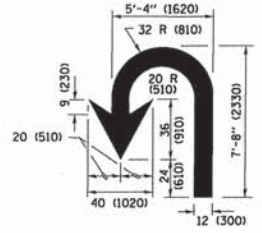
ISLAND OFFSET FROM PAVEMENT EDGE



TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

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

LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	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 MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) 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 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 CROSSWALK 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" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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





DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
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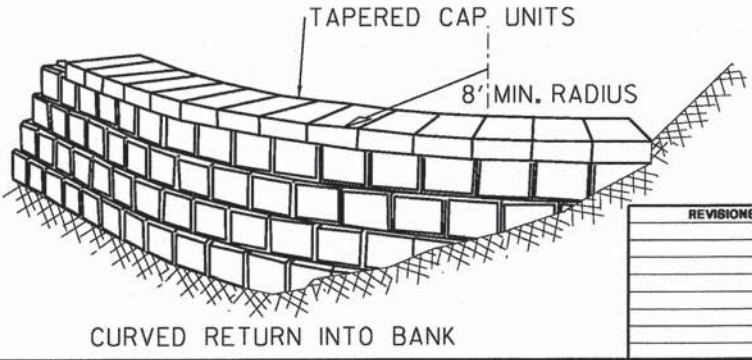
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE	STA. TO STA.	F.A.U. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		0012 14-00011-00-BT	MCHENRY	104	83
		TC-13	CONTRACT NO. 61C28		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)			

1. BLOCK FACING IS SPLIT FACE
2. CAP UNITS TO BE APPLIED WITH ADHESIVE. APPLICATION RATE IS ONE 10.5 OZ TUBE PER 18 FEET OF CAP LENGTH.
3. PLACEMENT METHOD IS BY HAND
4. STACKING ALIGNMENT MAY BE EITHER BATTERED OR VERTICAL
5. MINIMUM FACE RADIUS IN CURVE = 8'
6. DESIGN NOTE: MAX HEIGHT GRAVITY ONLY = 3 FEET
7. RETAINING WALL BLOCKS MUST BE CERTIFIED BY IDOT'S QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

SEGMENTAL CONCRETE BLOCK DETAILS						
		FACE WIDTH	BACK WIDTH	HEIGHT	DEPTH	WEIGHT
	STANDARD UNIT	8"	8"	6"	12"	45 LBS
	TAPERED UNIT	8"	6 7/8"	6"	12"	43 LBS
	TAPERED CAP	8"	7"	3"	14"	22 LBS
	RECTANGULAR CAP	24"	24"	3"	12"	68 LBS

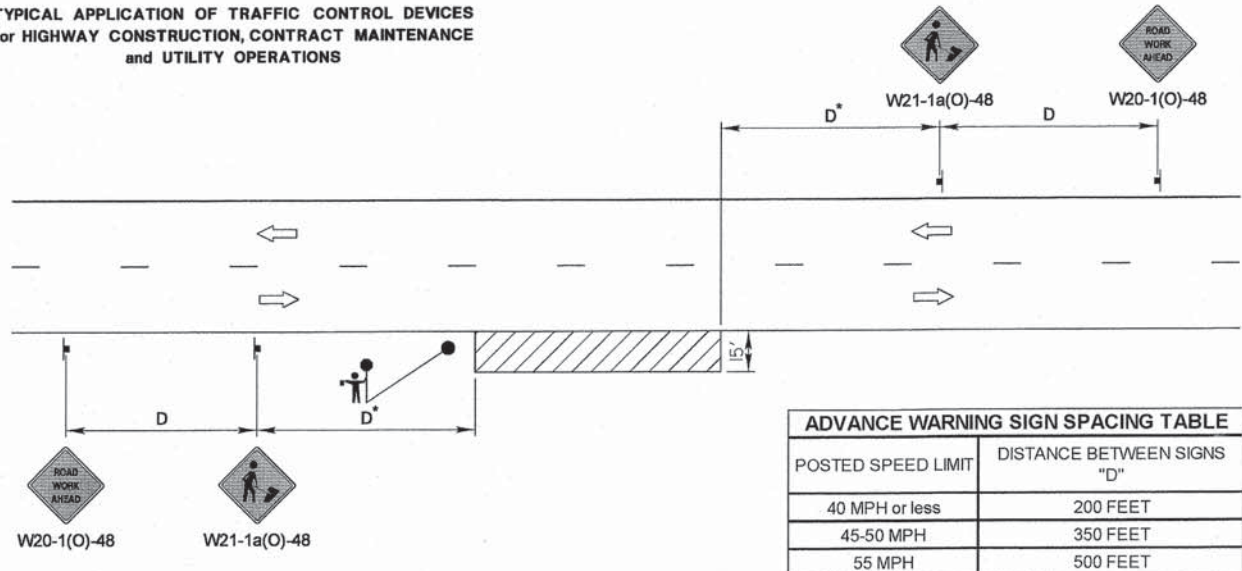


REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS DATE: APRIL 1, 2007

SEGMENTAL CONCRETE BLOCK WALL

LC2101

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE and UTILITY OPERATIONS



ADVANCE WARNING SIGN SPACING TABLE	
POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET




GENERAL NOTES:

This special detail is used at any time, any vehicle, equipment, workers or their activities require a stationary, intermittent or continuous moving operation within 15 feet of the traffic lane, where the average speed is 1 mph or less.

* Minimum distance "D" is shown in the Advance Warning Sign Spacing Table. If the work is a moving operation, the maximum distance "D" may be extended to 1/2 the length required for one normal working day's operation or 4 miles, whichever is less.

If the work operation does not exceed 60 minutes, traffic control may be according to I.D.O.T. Highway Standard 701301.

SYMBOLS

-  WORK AREA
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  FLAGGER WITH TRAFFIC CONTROL SIGN WHEN REQUIRED

REVISIONS	DATE	APPROVED BY: A. KHAWAJA DATE: APRIL 1, 2007
Title Block Revision	8/1/09	
Reformat LCDOT Standard	7/15/10	

TWO LANE, TWO WAY, OFF-ROAD OPERATIONS DAY OPERATIONS ONLY

LC7000

NOT TO SCALE

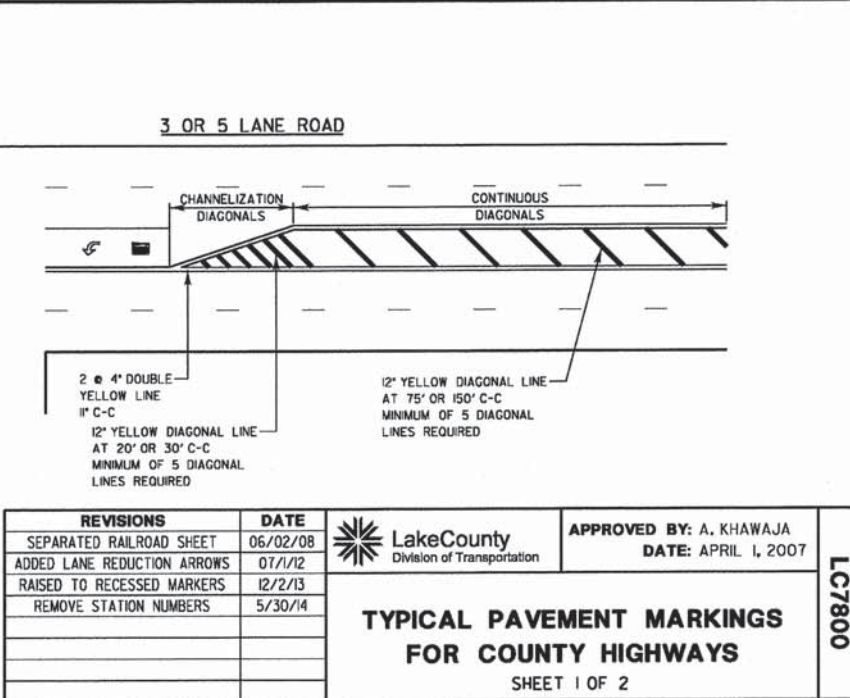
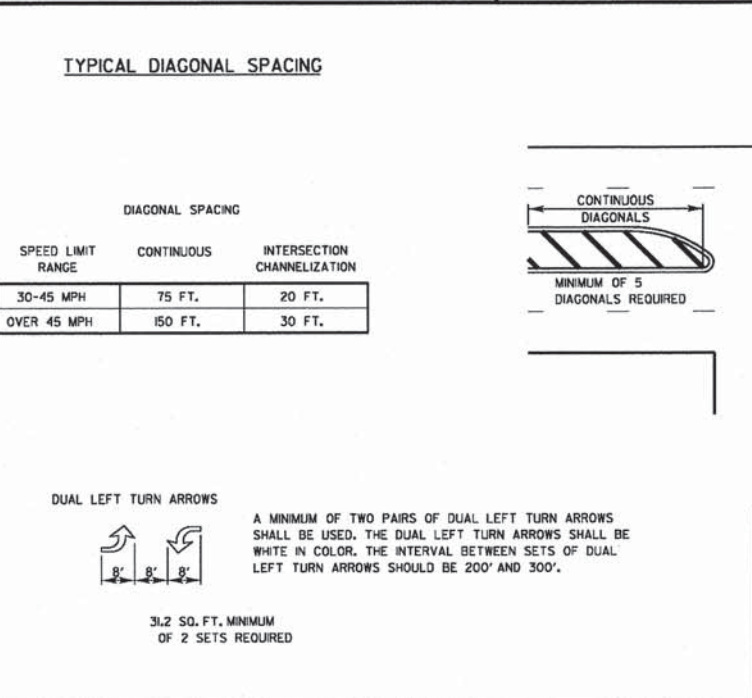
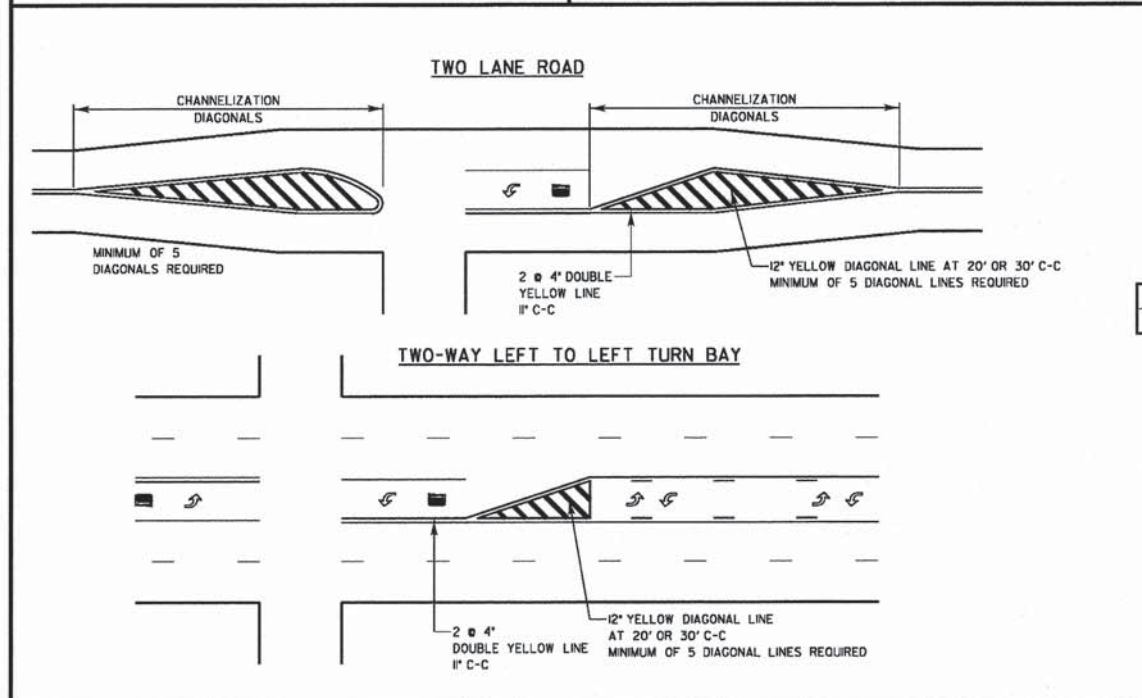
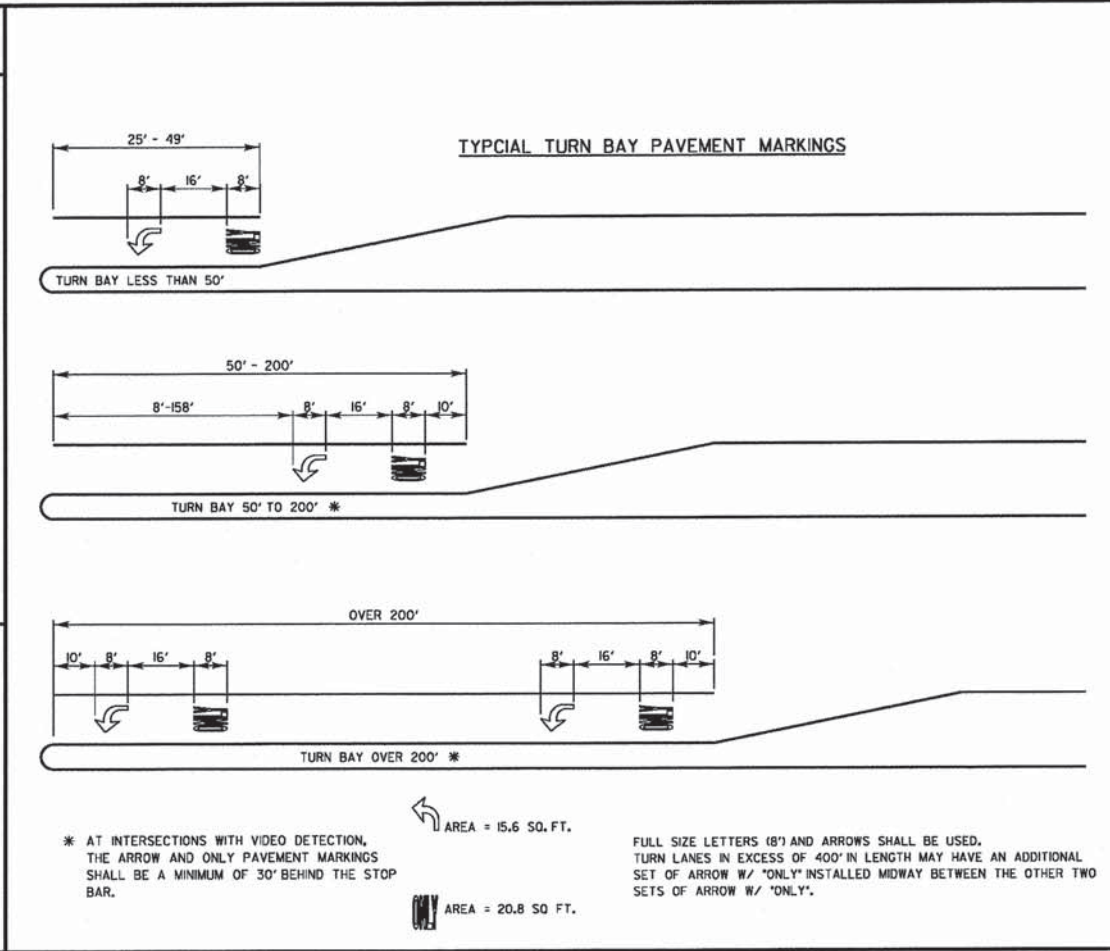
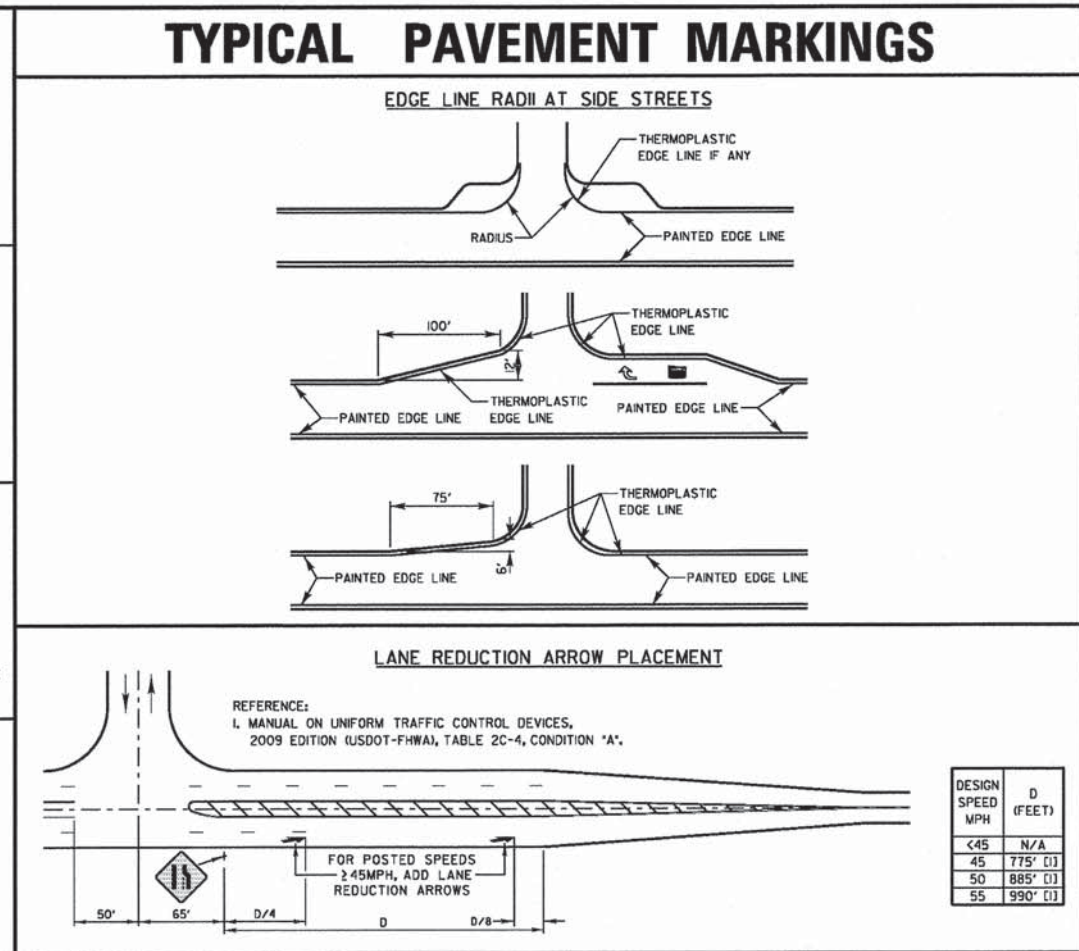
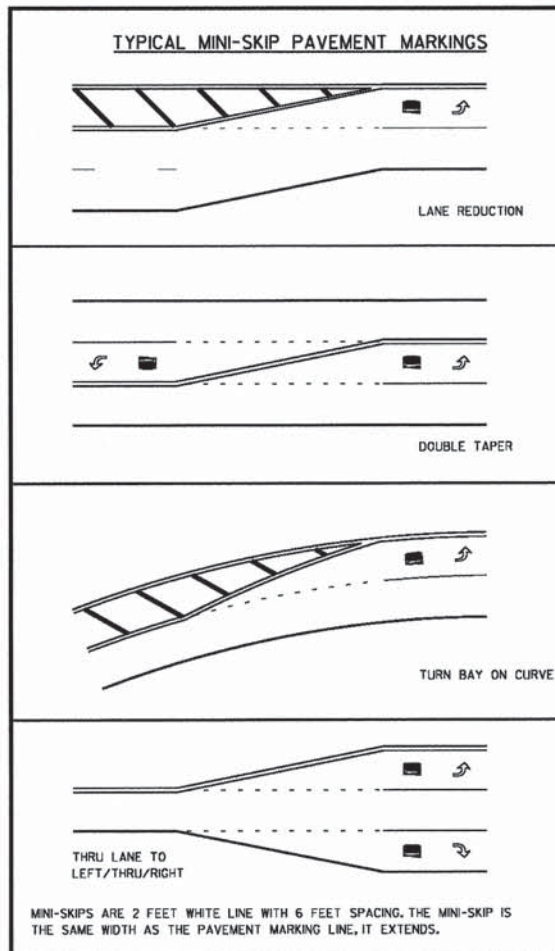
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
LAKE COUNTY DETAILS**

SCALE: NONE STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	84
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



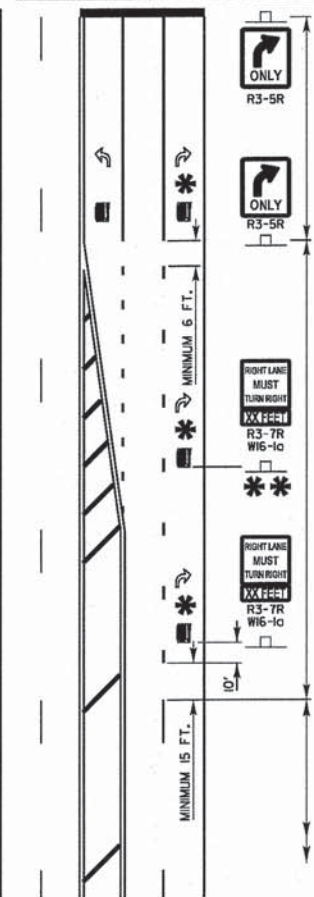
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITAL
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS LAKE COUNTY DETAILS	
SCALE: NONE	STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	85
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

THRU LANE TO
TURN LANE CONVERSION



TURN LANE
6' WHITE LINE
ADDITIONAL PAVEMENT MARKINGS AS SHOWN
ON SHEET ONE OF THE L.C.D.O.T TYPICAL
PAVEMENT MARKINGS DETAIL SHEETS!

TRANSITION ZONE
6' WHITE 3'/12' SKIP DASH
LANE LINE

MINIMUM TRANSITION ZONE LENGTH

POSTED SPEED	LENGTH
25 M.P.H.	255 FT
30 M.P.H.	330 FT
35 M.P.H.	405 FT
40 M.P.H.	480 FT
45 M.P.H.	555 FT
50 M.P.H.	630 FT
55 M.P.H.	705 FT

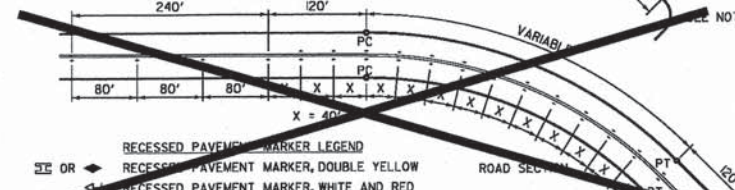
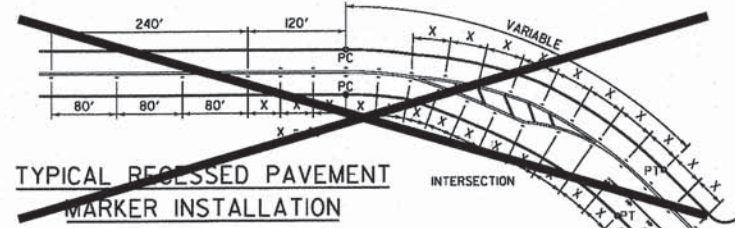
LOCATION OF PAV'T MARKINGS
(MEASURED FROM BEGINNING OF TRANSITION ZONE)

POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT, 260 FT
30 M.P.H.	10 FT, 170 FT, 340 FT
35 M.P.H.	10 FT, 210 FT, 410 FT
40 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT
45 M.P.H.	10 FT, 190 FT, 370 FT, 560 FT
50 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT, 640 FT
55 M.P.H.	10 FT, 180 FT, 350 FT, 520 FT, 710 FT

THRU LANE
4' WHITE 10'/30' SKIP DASH
LANE LINE

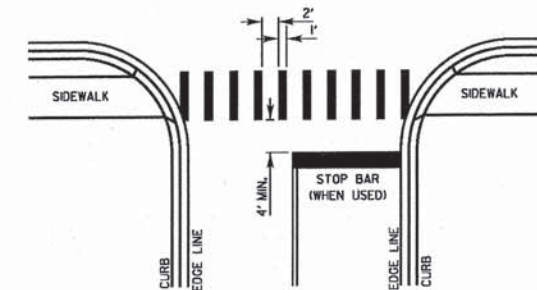
FOR POSTED SPEEDS 40 M.P.H. OR GREATER
A SECOND R3-7/W16-10 SIGN INSTALLATION
SHALL BE LOCATED HALFWAY BETWEEN THE
BEGINNING OF THE TRANSITION ZONE AND THE
BEGINNING OF THE TURN LANE

TYPICAL PAVEMENT MARKINGS AND RECESSED PAVEMENT MARKERS



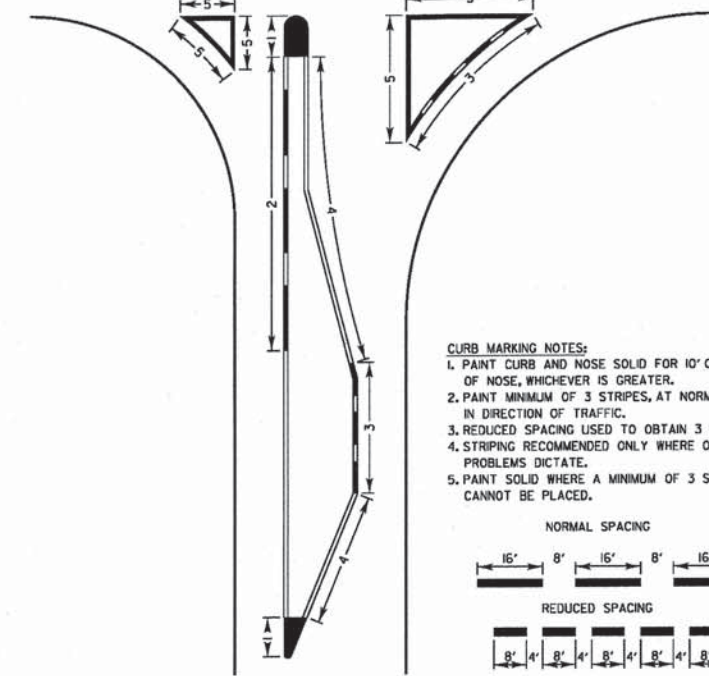
- RECESSED PAVEMENT MARKER NOTES:
- CENTERLINE RECESSED PAVEMENT MARKERS (RPM'S) SHALL BE PLACED ON ALL TWO AND THREE LANE HIGHWAYS WITH CURVES OVER 3 1/2 DEGREES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - SPACING 100' FOR CENTERLINE MARKERS.
 - ALL RPM'S ON CENTERLINE ARE 2-1/2" HIGH. YELLOW LANE LINE MARKERS ARE WHITE/RED.
 - MARKERS SHALL BE INSTALLED ACCORDING TO F.H.W.A. MEMORANDUM 910-21.
 - MARKERS SHALL BE ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
 - RPM'S WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
 - A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
 - RPM'S INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP/DASH LANE LINE ONLY. THESE RPM'S SHALL BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH LANE LINE.

CROSSWALKS



- CROSSWALK NOTES:
- WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND BICYCLE CROSSINGS, WHICH CAN BE 8'.
 - THE STOP BAR SHOULD BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

CURB MARKING

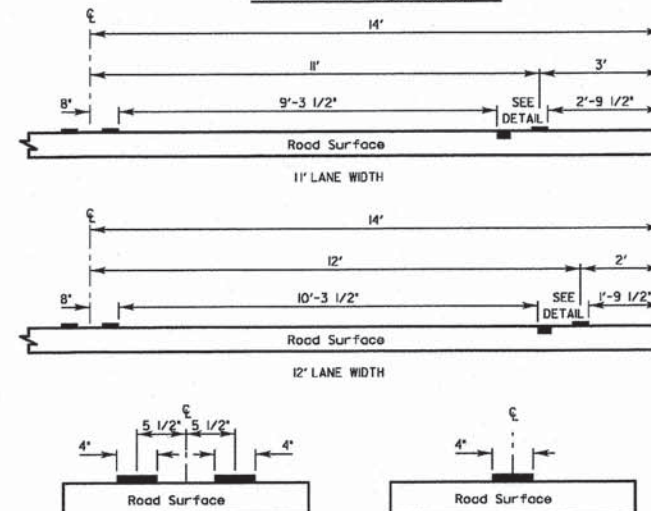


- CURB MARKING NOTES:
- PAINT CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
 - PAINT MINIMUM OF 3 STRIPES, AT NORMAL SPACING, IN DIRECTION OF TRAFFIC.
 - REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
 - STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
 - PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

PAVEMENT MARKING GUIDELINES				
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 IN.	SOLID	YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE
CENTERLINE ON MULTI-LANE UNDIVIDED LANE LINES	4 IN.	SKIP-DASH	WHITE	11 IN. C-C
DOTTED LINES (EXTENSIONS OF CENTERLINE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS 18 FT. J	SOLID	WHITE	TURN ARROW 5.6 SO. FT. STRAIGHT ARROW 11.5 SO. FT. COMB. ARROW 26.0 SO. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 5 1/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE
CROSSWALK	8 FT. LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
STOP BARS	12 IN. @ 90°	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
PAINTED MEDIANS	2 @ 4 IN. @ 45° 12 IN. DIAGONALS @ 45° NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW; 2-WAY TRAFFIC WHITE; 1-WAY TRAFFIC	11 IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL MINIMUM OF 5 DIAGONALS
CORB MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS IS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
R.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER 16 IN. LINE FOR "X"	SOLID	WHITE	SEE I.D.O.T. STD. 78000 50 FT. AREA OF "R" = 3.6 SO. FT. / "R" "X" = 54.0 SO. FT.
SHOULDER DIAGONALS (FOR PAVED SHOULDER ≥ 6 FT.)	12 IN. @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 100 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III 'MARKINGS' IN THE 'ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', THE 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION', AND THE LATEST I.D.O.T. HIGHWAY STANDARD 78000.

PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS (2-LANE ROADWAY)



NOTE:
CENTERLINE MARKINGS ARE 4" LINES AT 11" CENTERS.

REVISIONS	DATE
SEPARATED RAILROAD SHEET	06/02/08
REVISED RPM DETAILS	07/1/12
RAISED TO RECESSED MARKERS	12/2/13
REMOVE STATION NUMBERS	5/30/14

LakeCounty
Division of Transportation

APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS
FOR COUNTY HIGHWAYS
SHEET 2 OF 2

LC7800

THIS DETAIL SHEET APPLIES TO WAGNER ROAD EAST OF HIGHLAND AVENUE AND ALL OF DARREL ROAD IMPROVEMENTS

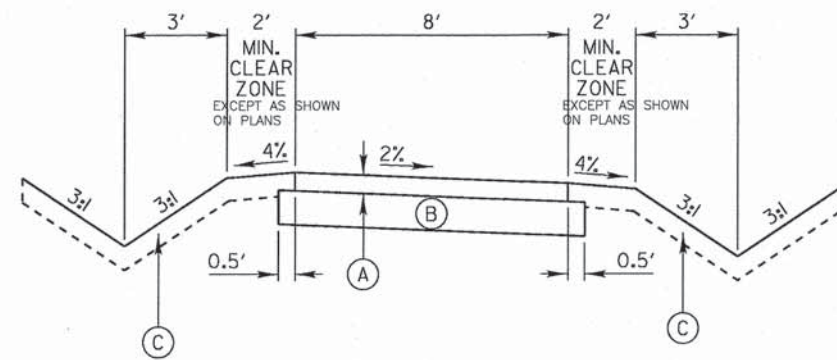
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
LAKE COUNTY DETAILS

SCALE: NONE STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	86
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
- (B) AGGREGATE BASE COURSE, TYPE B 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4", and SEEDING, CLASS 2A or SODDING

DESIGN NOTE:

If the Bike Path is being constructed in conjunction with the road improvement, then the Hot-Mix Asphalt mixes shall be the same as those used on the road in order to avoid multiple mix requirements.

SCALE:
VERTICAL 1" = 2'
HORIZONTAL 1" = 4'

REVISIONS	DATE
Changed BP to 3" Surface	5/1/2008
Modified Agg. Base Course	3/1/2011
CHANGE TO MIX "D"	2/20/12
Revised Type A to Type B Aggregate	12/20/12



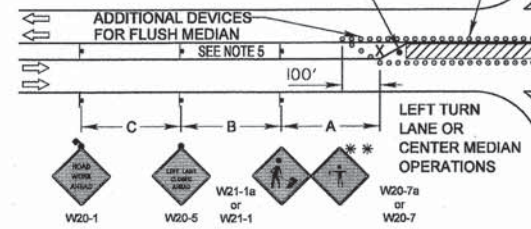
APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

**TYPICAL SECTION
8' HOT-MIX ASPHALT
BIKEPATH**

LC4051

**TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE
and UTILITY OPERATIONS**

CONES AT 25' CENTERS FOR 250'. ADDITIONAL CONES MAY BE PLACED AT 50' CENTERS. WHEN BARRICADES ARE USED, THE DISTANCE BETWEEN DEVICES MAY BE DOUBLED.



GENERAL NOTE:

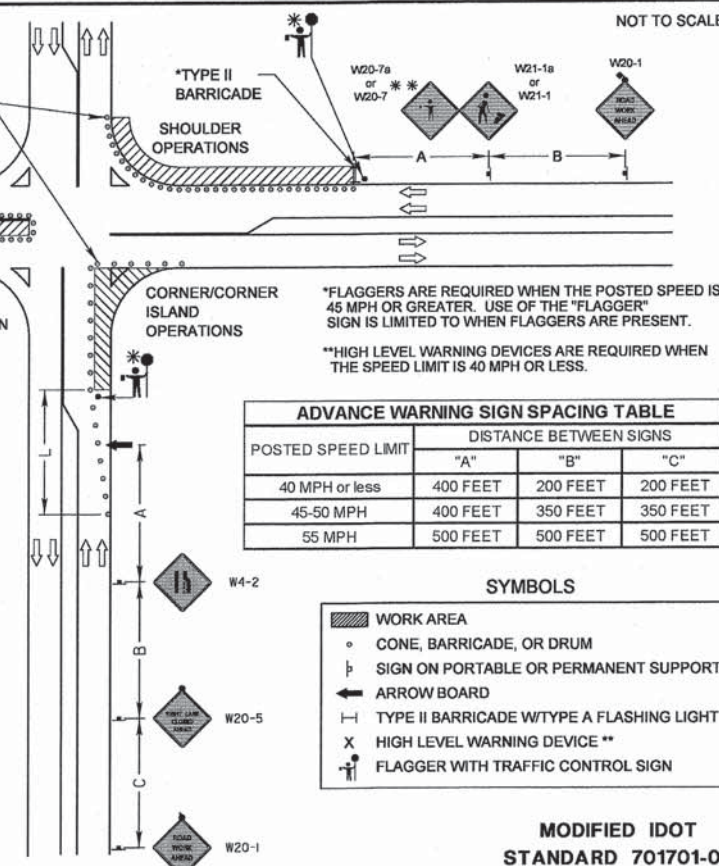
This Standard is used where at anytime, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

DESIGN NOTES:

- All warning signs shall have minimum dimensions of 48"x48". The Engineer may approve signs measuring 36"x36" when the posted speed limit is 30 mph or less.
- All signs not on the traveled way shall be post mounted if the closure time exceeds four calendar days. All signs shall be posted with the bottom of the sign not less than 7" above the edge of pavement. "NO PARKING" signs shall be installed throughout the work area at the discretion of the Engineer.
- The distance "L" shall be defined as:

SPEED	FORMULA
≤ 40 MPH	L = (WS) / 60
≥ 45 MPH	L = LW x S

W = Width of Closure in FEET
S = Normal Posted Speed Limit in MPH
LW = Lane Width in FEET
- Type II barricades with Type C steady burning lights shall be used in lieu of cones for night operations. All cones and barricades shall be according to IDOT Standard 701901.
- For raised median operations, where the raised median is less than 10' signing shall not be installed on the median. No signing shall be installed on any painted median.
- If the work operation is performed between 9:00 am and 3:00 pm and the work does not exceed 15 minutes, the traffic protection shall be as shown for IDOT Standard 701301. Signs, when required, shall be at the spacing specified in the advance warning sign spacing table.
- If the work area is in the parking lane and the parking exists during work hours, a "ROAD WORK AHEAD" sign shall be installed in advance of work area at the spacing specified in the Advance Warning Sign Spacing Table and the area protected with cones or barricades.
- Type A flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two sign in each series and the high level warning devices.
- Longitudinal dimensions may be adjusted to fit field conditions.
- Form BT 725 is required.



ADVANCE WARNING SIGN SPACING TABLE

POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS		
	"A"	"B"	"C"
40 MPH or less	400 FEET	200 FEET	200 FEET
45-50 MPH	400 FEET	350 FEET	350 FEET
55 MPH	500 FEET	500 FEET	500 FEET

SYMBOLS

- WORK AREA
- CONE, BARRICADE, OR DRUM
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ARROW BOARD
- TYPE II BARRICADE W/TYPE A FLASHING LIGHT
- HIGH LEVEL WARNING DEVICE **
- FLAGGER WITH TRAFFIC CONTROL SIGN

REVISIONS	DATE
Revised IDOT Reference	2/1/08
Title Block Revision	6/1/09
Reformat IDOT Standards	7/15/10
Removed "Worker" & "Flagger" signs	8/28/12



APPROVED BY: ANTHONY KHAWAJA
DATE: APRIL 1, 2007

**URBAN LANE CLOSURE
MULTILANE INTERSECTION**

LC7003



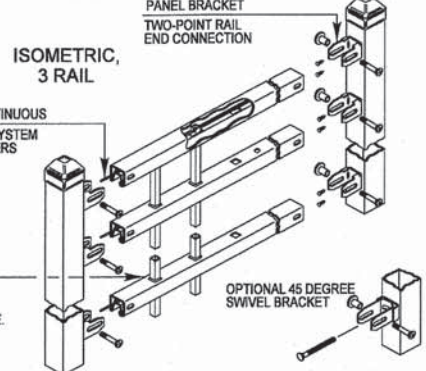
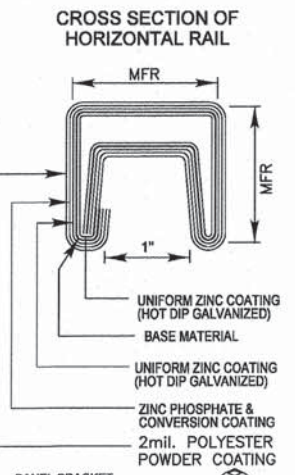
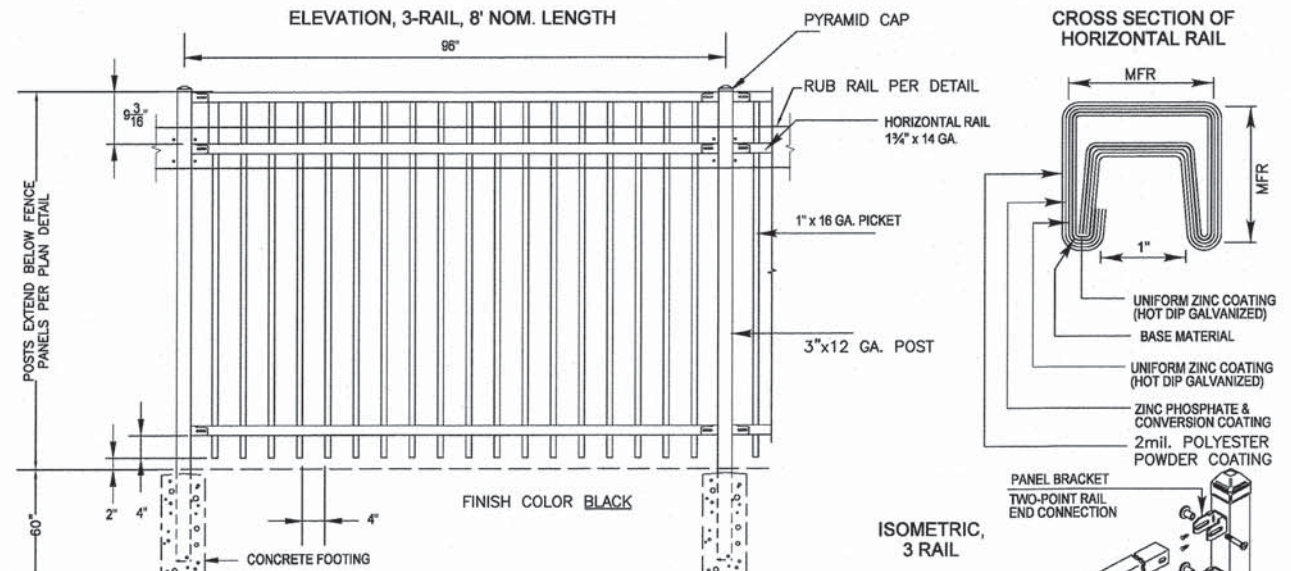
DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
LAKE COUNTY DETAILS**

SCALE: NONE STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	87
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



Post Selection for Fence Height 6' - 10'				
Wind Loading				
Fence Height (FT)	Rail Length (FT)	Post Size	Wind Load Capacity Factor (PSF)	Typical Wind Load Capacity (mph)
6	6	2 1/2" x 12 GA.	45.5	133.0
		3" x 12 GA.	54.6	146.0
	8	2 1/2" x 12 GA.	34.2	116.0
		3" x 12 GA.	41.0	127.0
7	6	2 1/2" x 12 GA.	33.4	114.0
		3" x 12 GA.	40.0	125.0
	8	2 1/2" x 12 GA.	25.0	99.0
		3" x 12 GA.	30.0	108.0
8	6	2 1/2" x 12 GA.	25.6	100.0
		3" x 12 GA.	30.7	110.0
	8	2 1/2" x 12 GA.	19.2	87.0
		3" x 12 GA.	23.0	95.0
9	4" x 12 GA.	30.6	110.0	
	4" x 12 GA.	32.0	113.0	
10	6	4" x 12 GA.	26.7	107.0

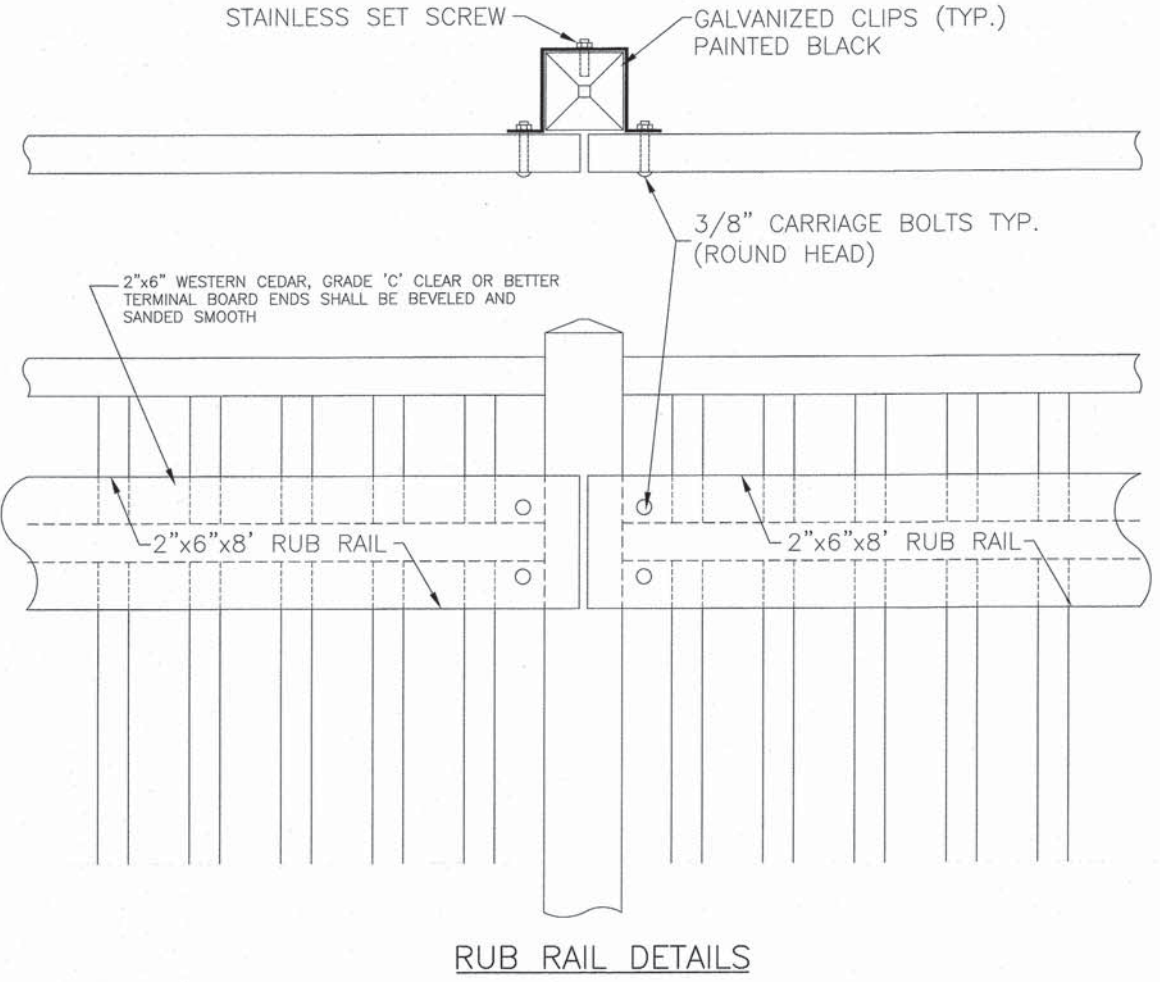
GATES: SPECIFY OPENING WIDTHS
 SINGLE _____ QUANTITY _____
 DOUBLE _____ QUANTITY _____

Lake County
 Division of Transportation
 APPROVED BY: M. G. ZEMAITIS
 DATE: APRIL 1, 2007

REVISIONS	DATE
Text Update	7/15/11

**ORNAMENTAL FENCE
 THREE RAIL
 (ONE MFGR'S DETAILS)**

LC6601



CONSULTING, INC.
 INFRACON GEOTECH
 CONSULTING, INC. ENGINEERS & LAND SURVEYORS
 200 WEST 10TH STREET, SUITE 200, MILWAUKEE, WI 53233-1000

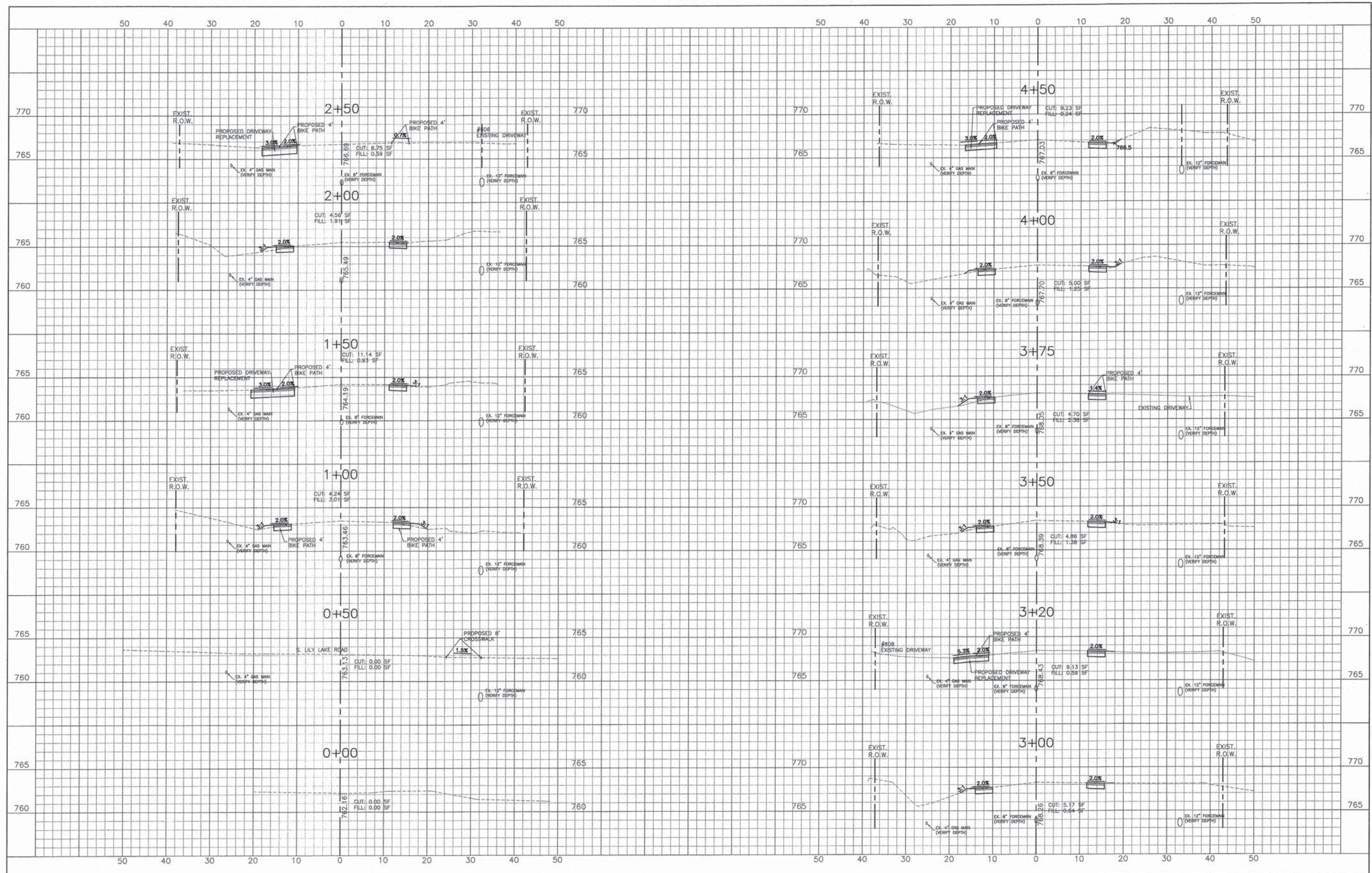
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DRAWN - S.R.M.	REVISED - 10/09/15 IDOT SUBMITTAL
CHECKED - J.K.	REVISED - 12/07/15 FINAL PLANS
DATE - 07/21/15	REVISED - 12/29/15 IDOT REVIEW
	REVISED - 01/06/16 IDOT REVIEW

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
 LAKE COUNTY DETAILS

SCALE: NONE STA. TO STA.

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	88
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

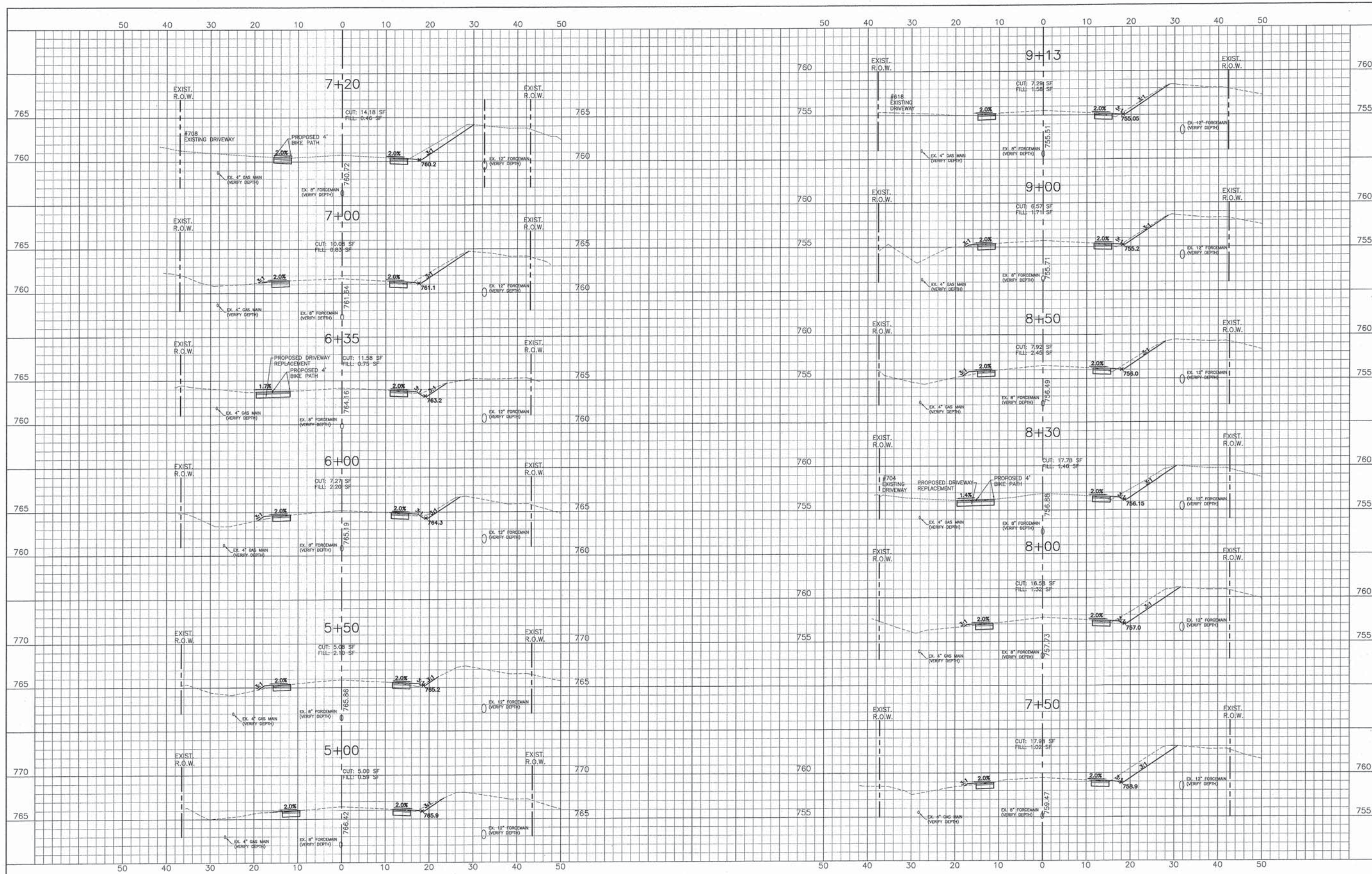


	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
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	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
WEGNER ROAD**

SCALE: H: 1"=10' V: 1"=5'	STA. 0+00 TO STA. 4+50	F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 89
		C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1(997)						



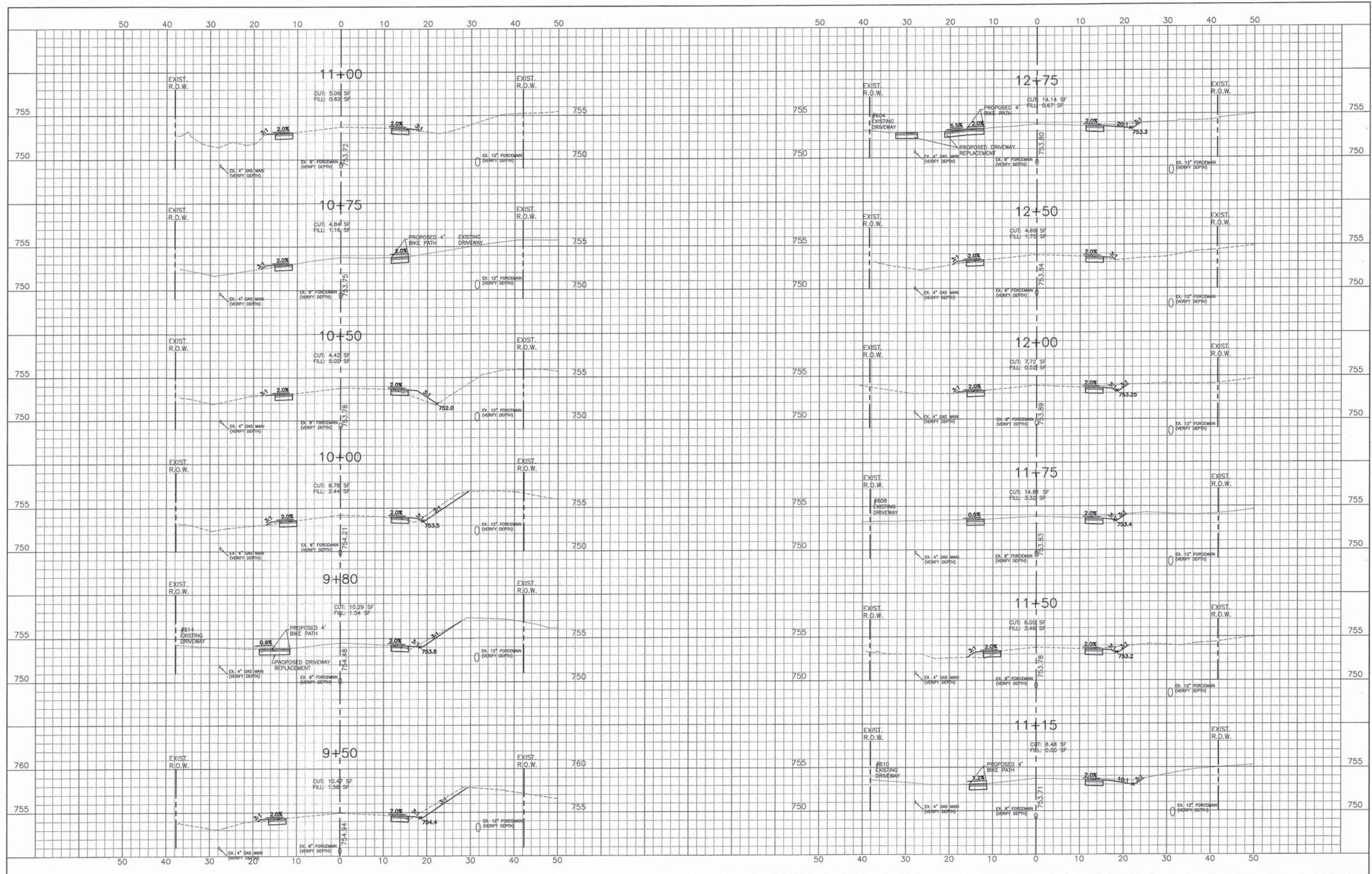
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	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
WEGNER ROAD**

SCALE: H: 1"=10' V: 1"=5' STA. 5+00 TO STA. 9+13

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	90
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				

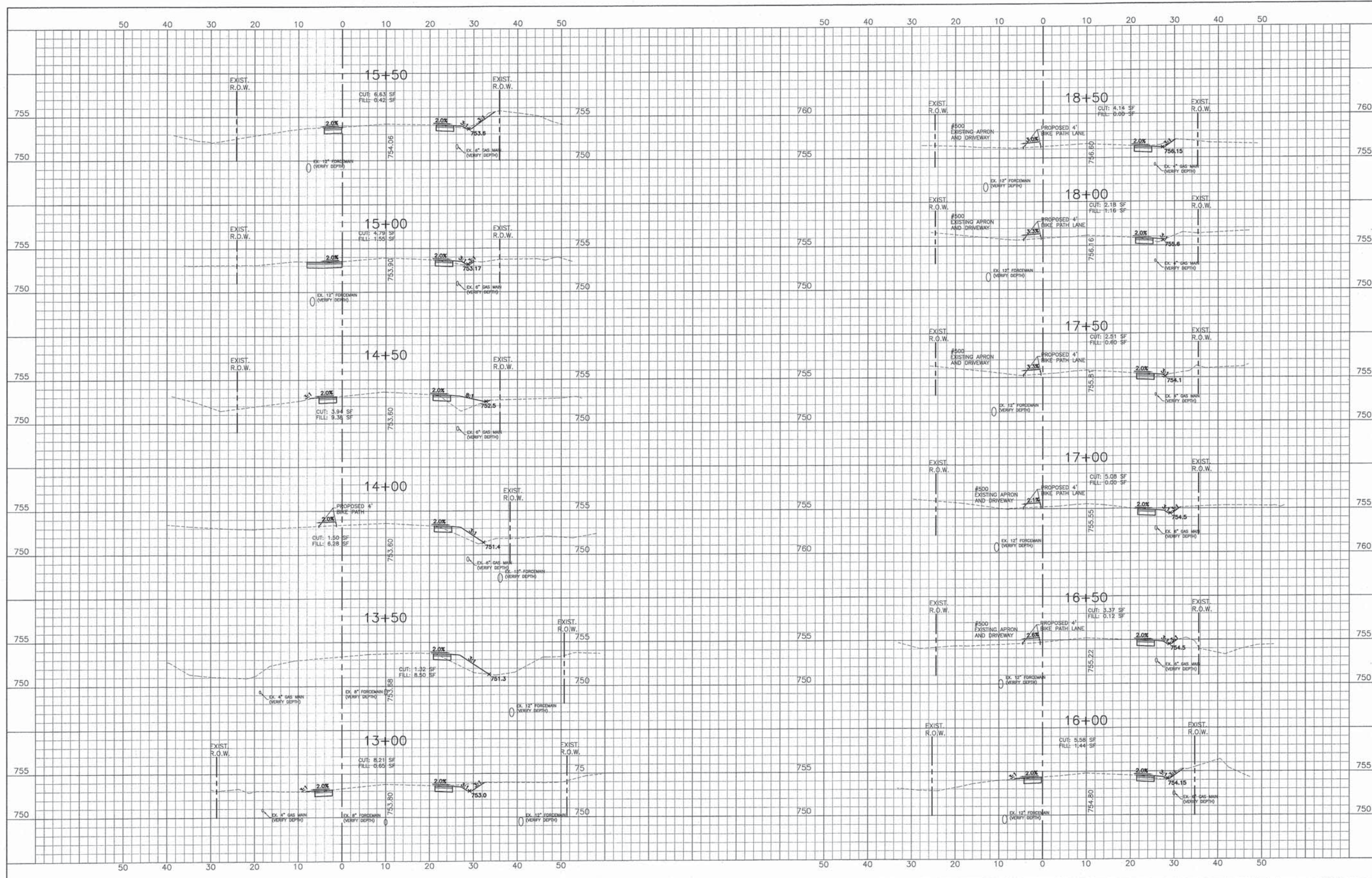


	DESIGNED — C.K.	REVISED — 10/09/15 IDOT SUBMITTAL
	DRAWN — S.R.M.	REVISED — 12/07/15 FINAL PLANS
	CHECKED — J.K.	REVISED — 12/29/15 IDOT REVIEW
	DATE — 07/21/15	REVISED — 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS WEGNER ROAD	
SCALE: H: 1"=10' V: 1"=5'	STA. 9+50 TO STA. 12+75

F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 91
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1(997)				



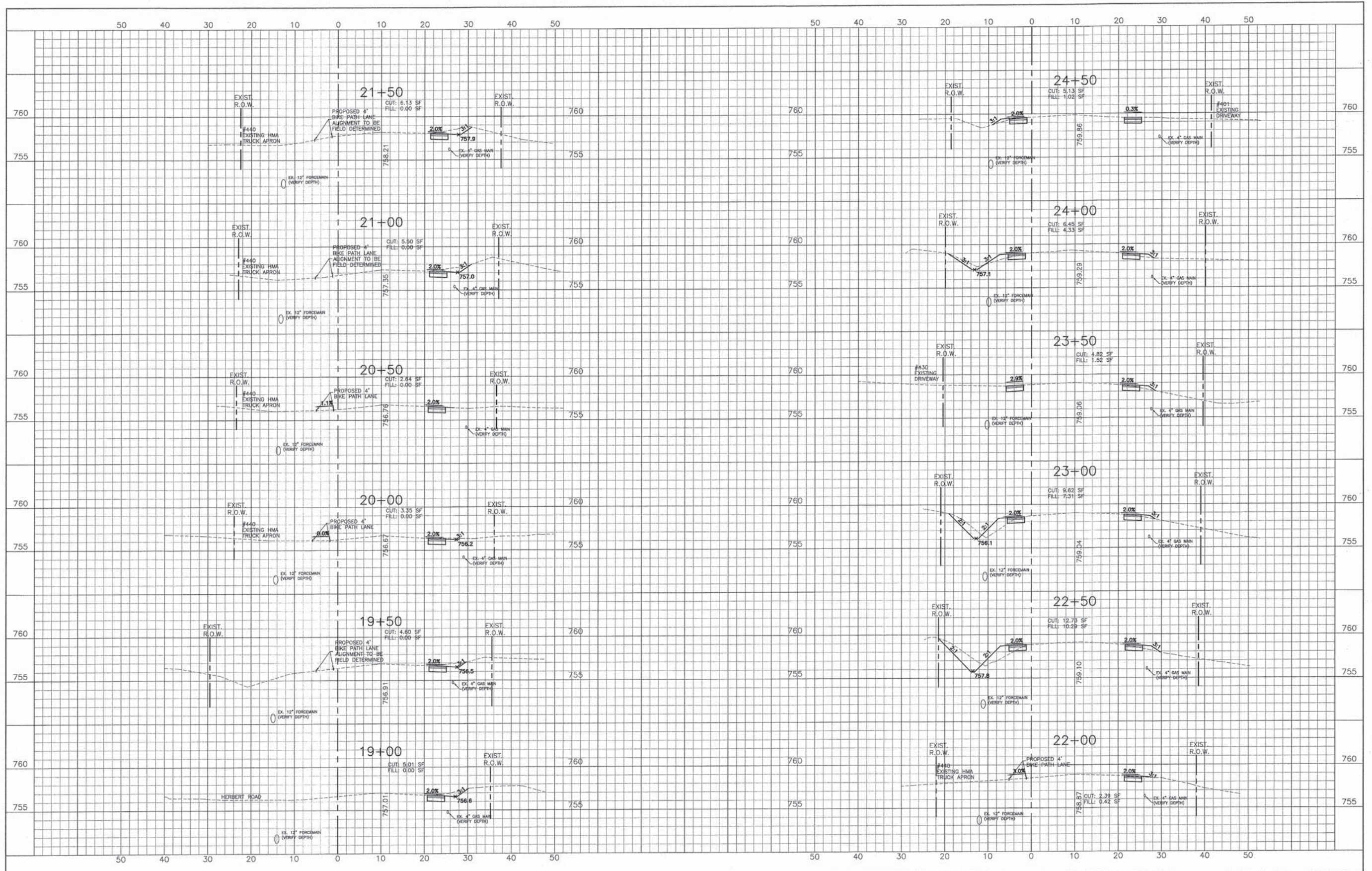
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	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
WEGNER ROAD**

SCALE: H: 1"=10' V: 1"=5' STA. 13+00 TO STA. 18+50

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	92
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

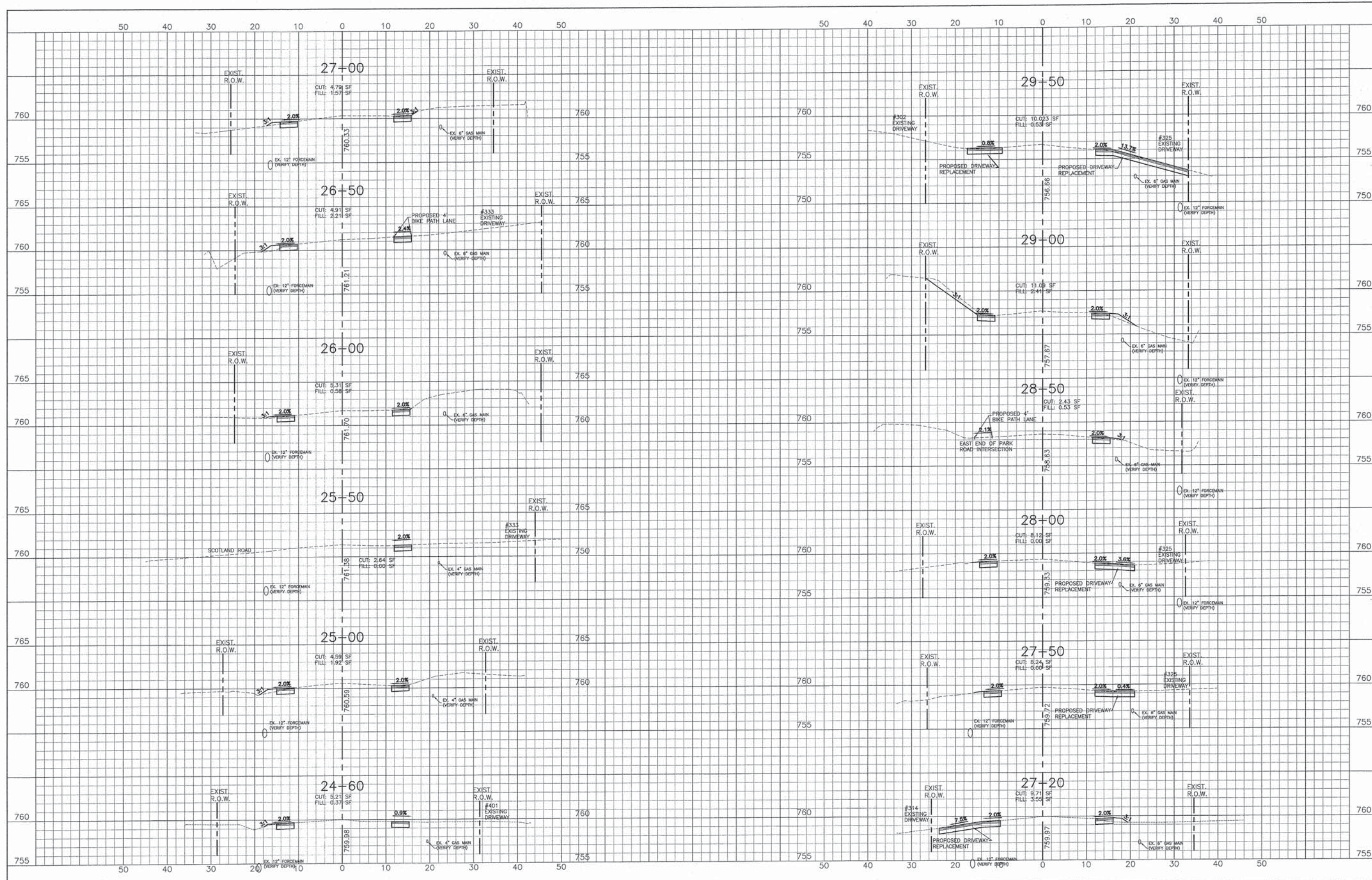


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	CHECKED -- J.K.	REVISED -- 12/29/15 IDOT REVIEW
	DATE -- 07/21/15	REVISED -- 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS WEGNER ROAD	
SCALE: H: 1"=10' V: 1"=5'	STA. 19+00 TO STA. 24+50

F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 93
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				

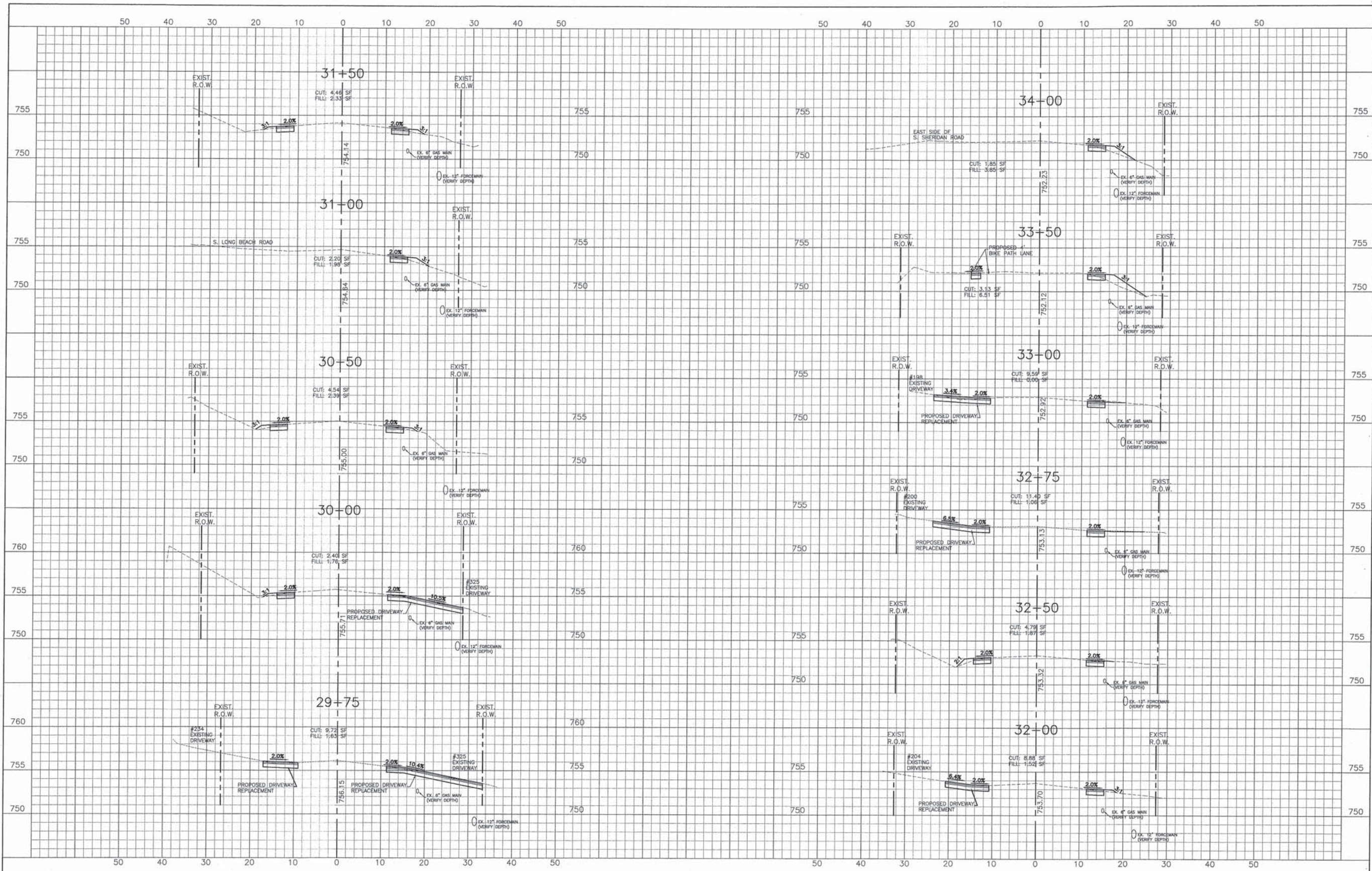


	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
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	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS WEGNER ROAD		
SCALE: H: 1"=10' V: 1"=5'	STA. 24+60	TO STA. 29+50

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	94
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



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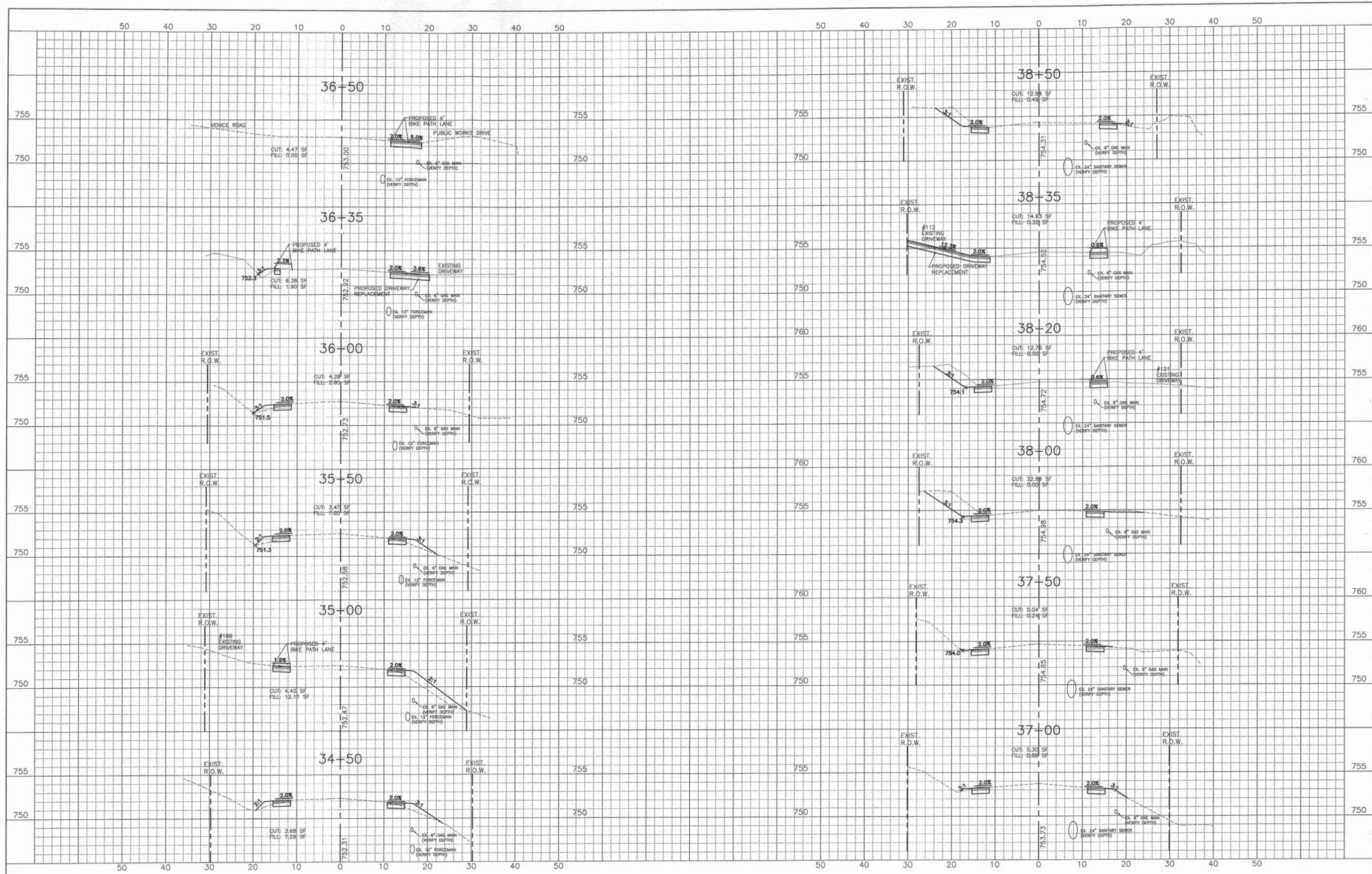
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
WEGNER ROAD**

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

STA. 29+75 TO STA. 34+00

F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 95
C-91-209-15		CONTRACT NO. 61C2B		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1(997)				



	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

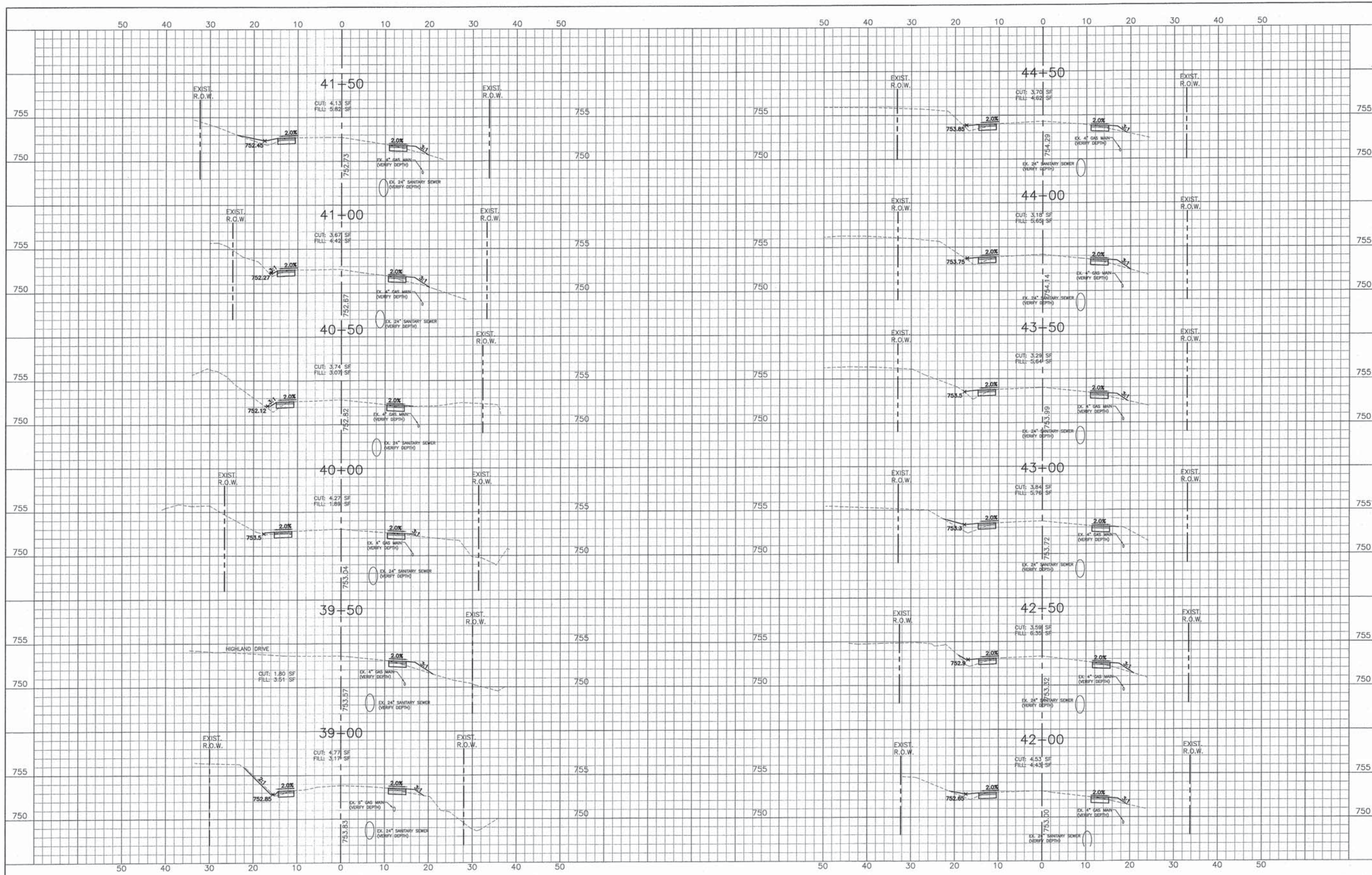
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
WEGNER ROAD**

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

STA. 34+50 TO STA. 38+50

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	96
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



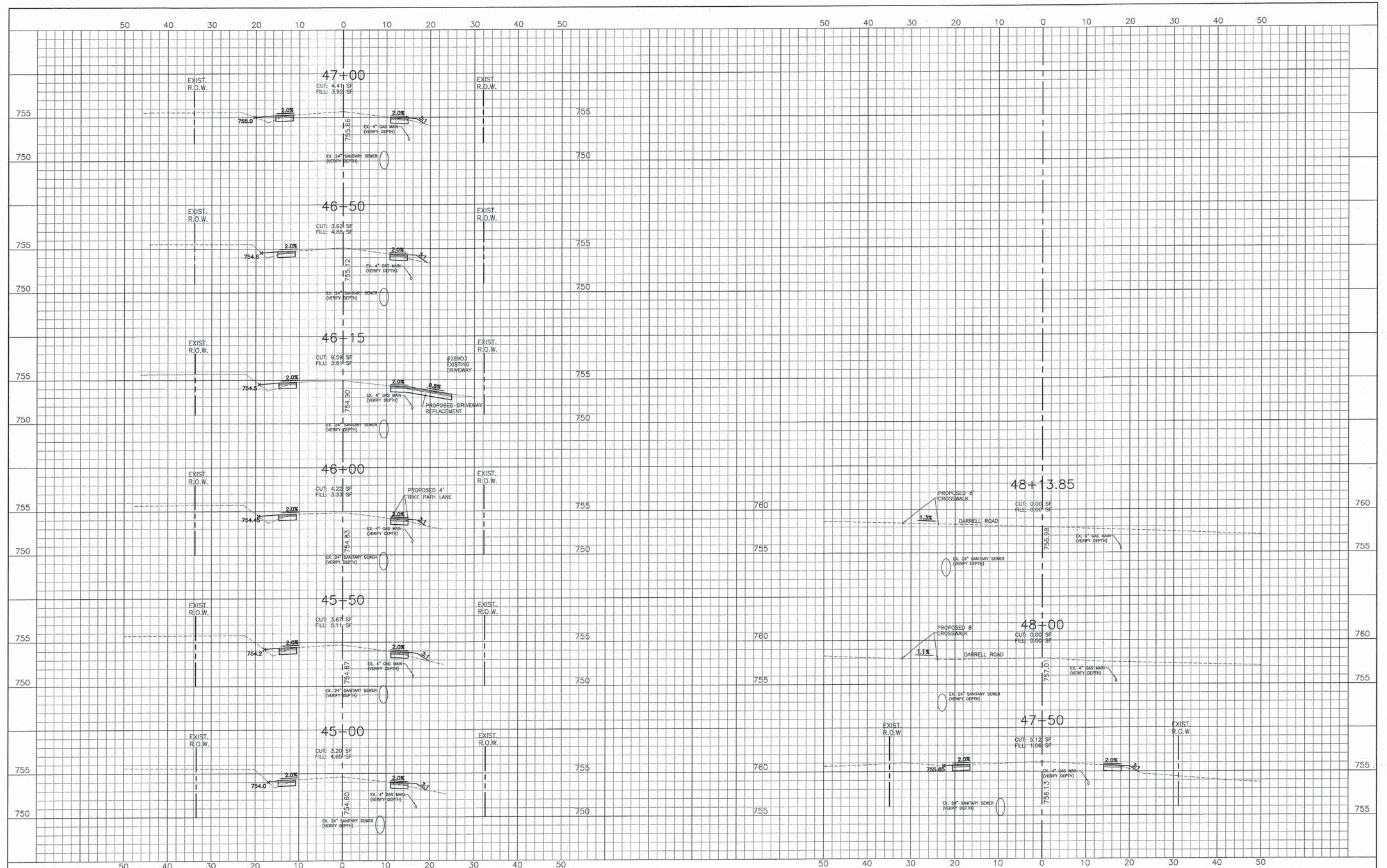
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	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
WEGNER ROAD**

SCALE: H: 1"=10' V: 1"=5'
STA. 39+00 TO STA. 45+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	97
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-001(997)				

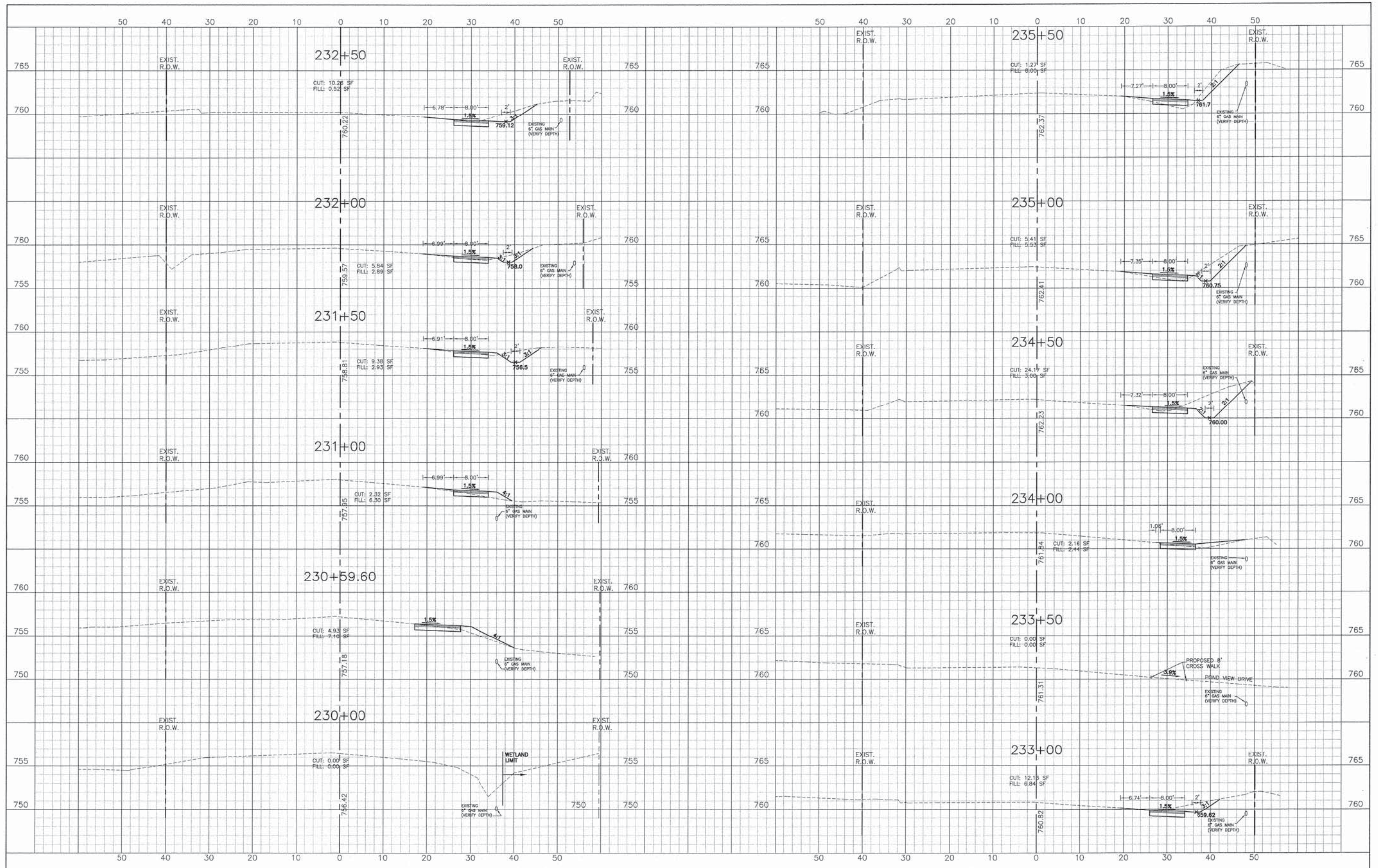


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	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
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	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS WEGNER ROAD	
SCALE: H: 1"=10' V: 1"=5'	STA. 45+00 TO STA. 48+13.85

F.A.U. STE. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 98
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
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	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

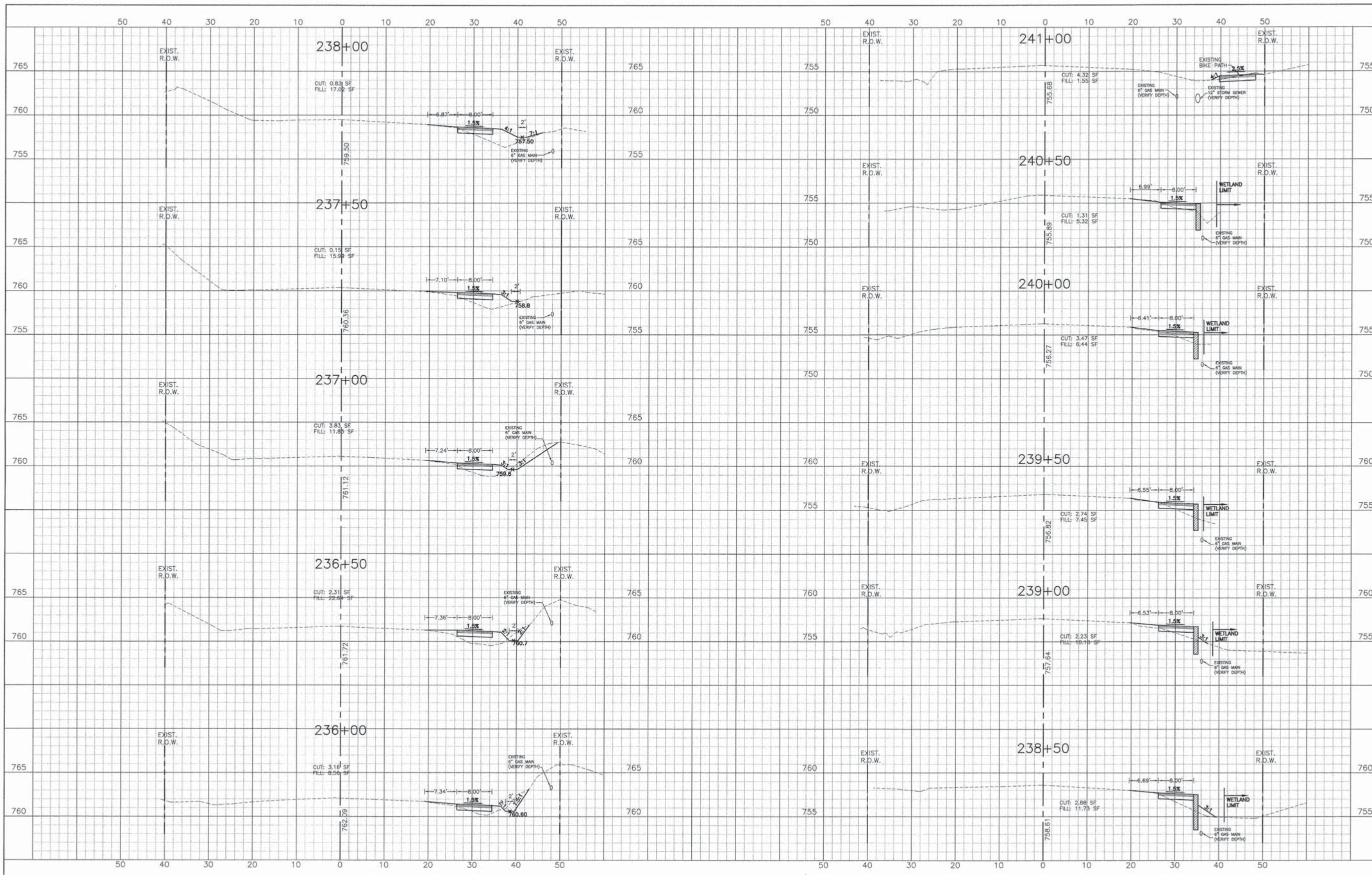
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
DARRELL ROAD**

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

STA. 230+06 TO STA. 235+50

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS
0012	14-00011-00-BT	MCHENRY	104 99
C-91-209-15		CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)			



DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

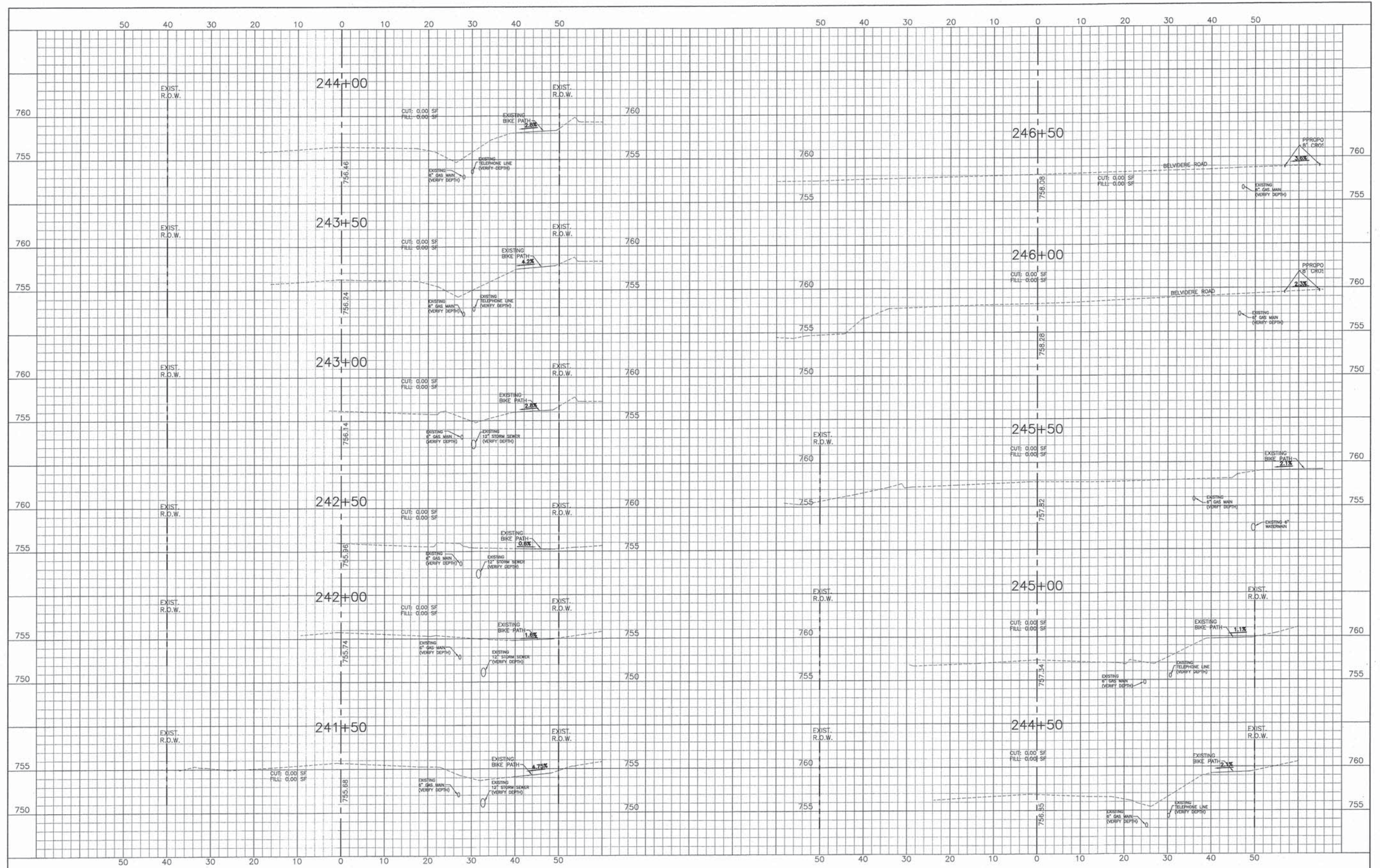
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
DARRELL ROAD**

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

STA. 236+00 TO STA. 241+00

F.A.U. ST. 0012	SECTION 14-00011-00-BT	COUNTY MCHENRY	TOTAL SHEETS 104	SHEET NO. 100
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



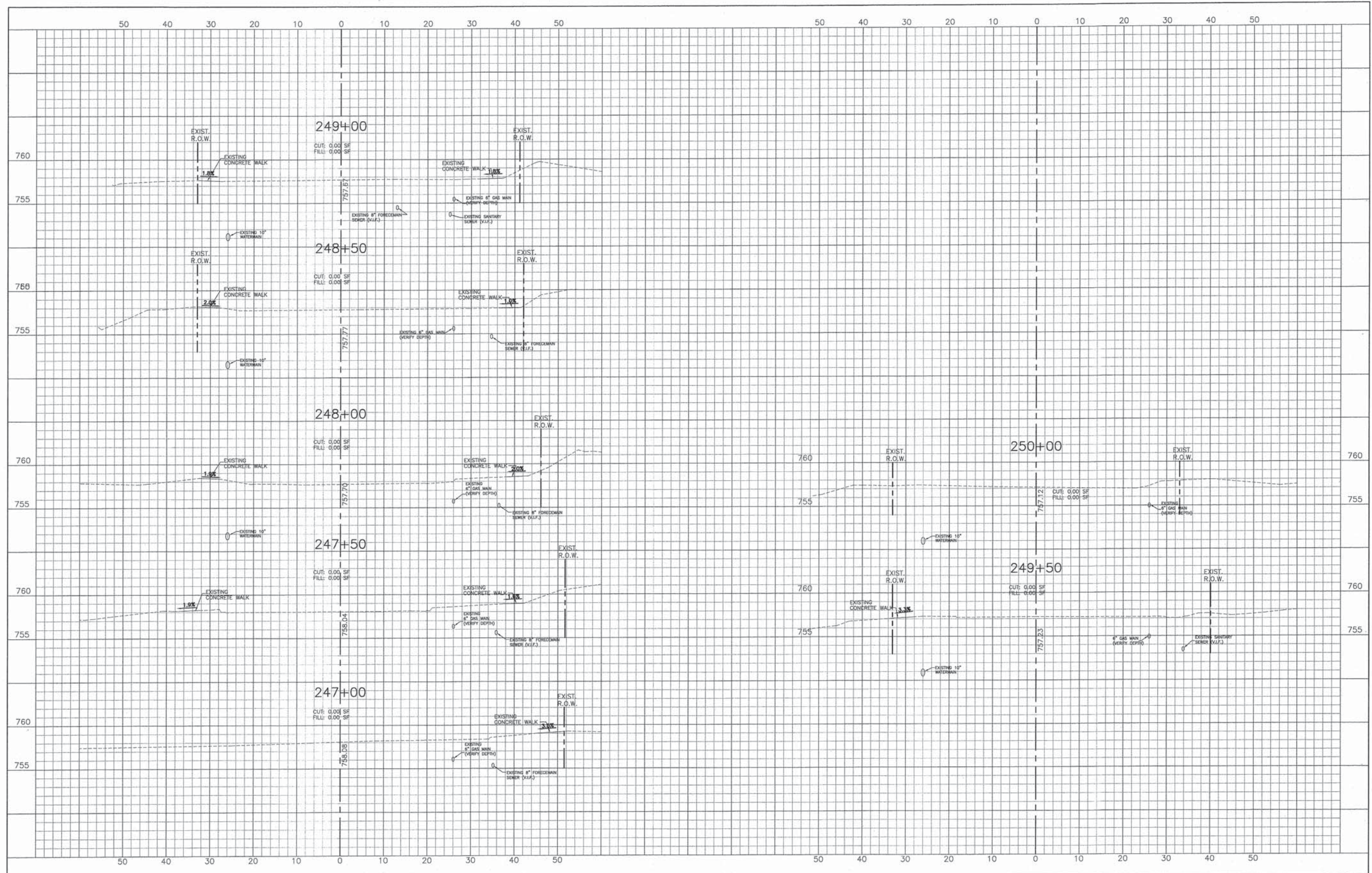
	DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
	DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
	CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
	DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
DARRELL ROAD**

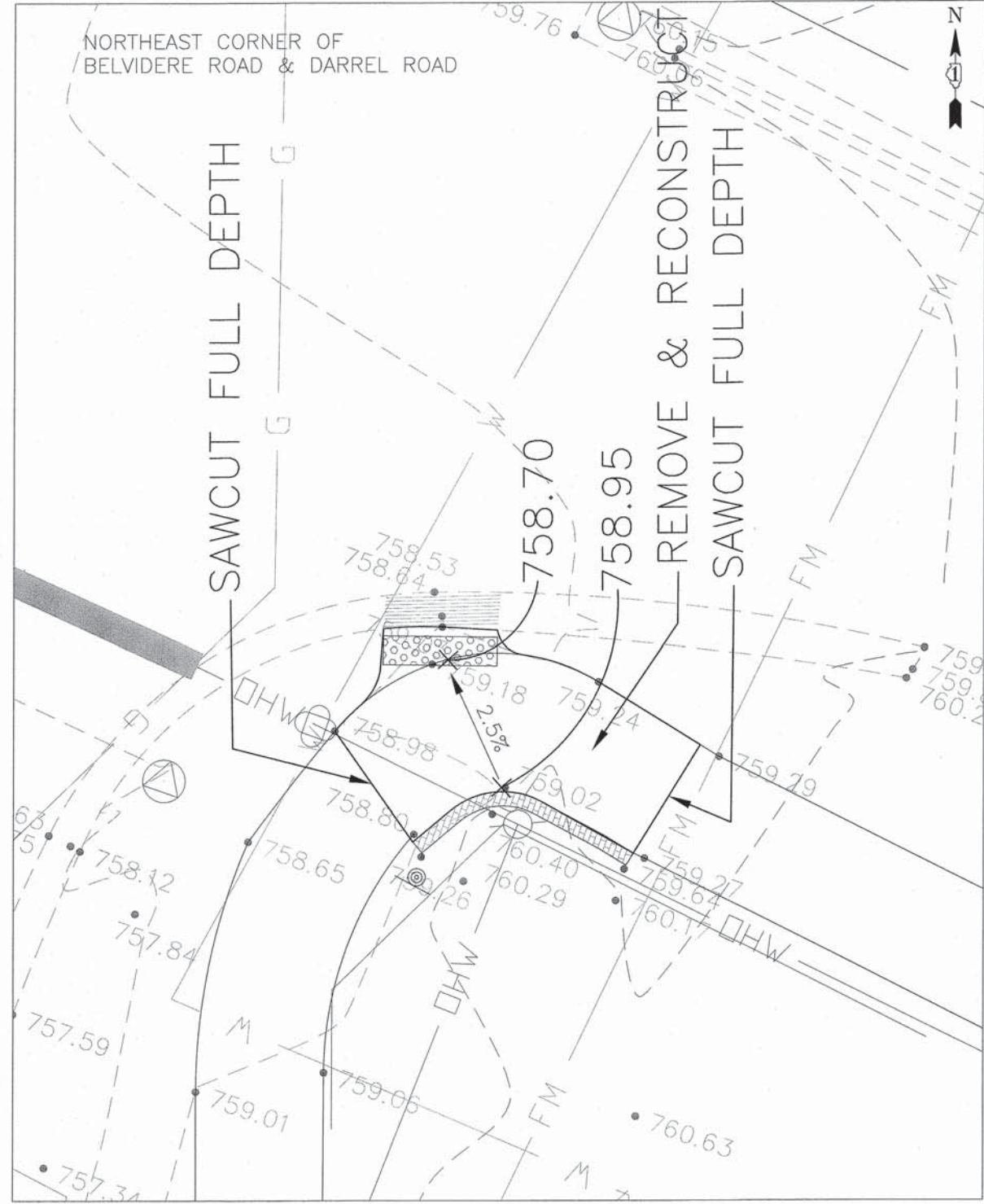
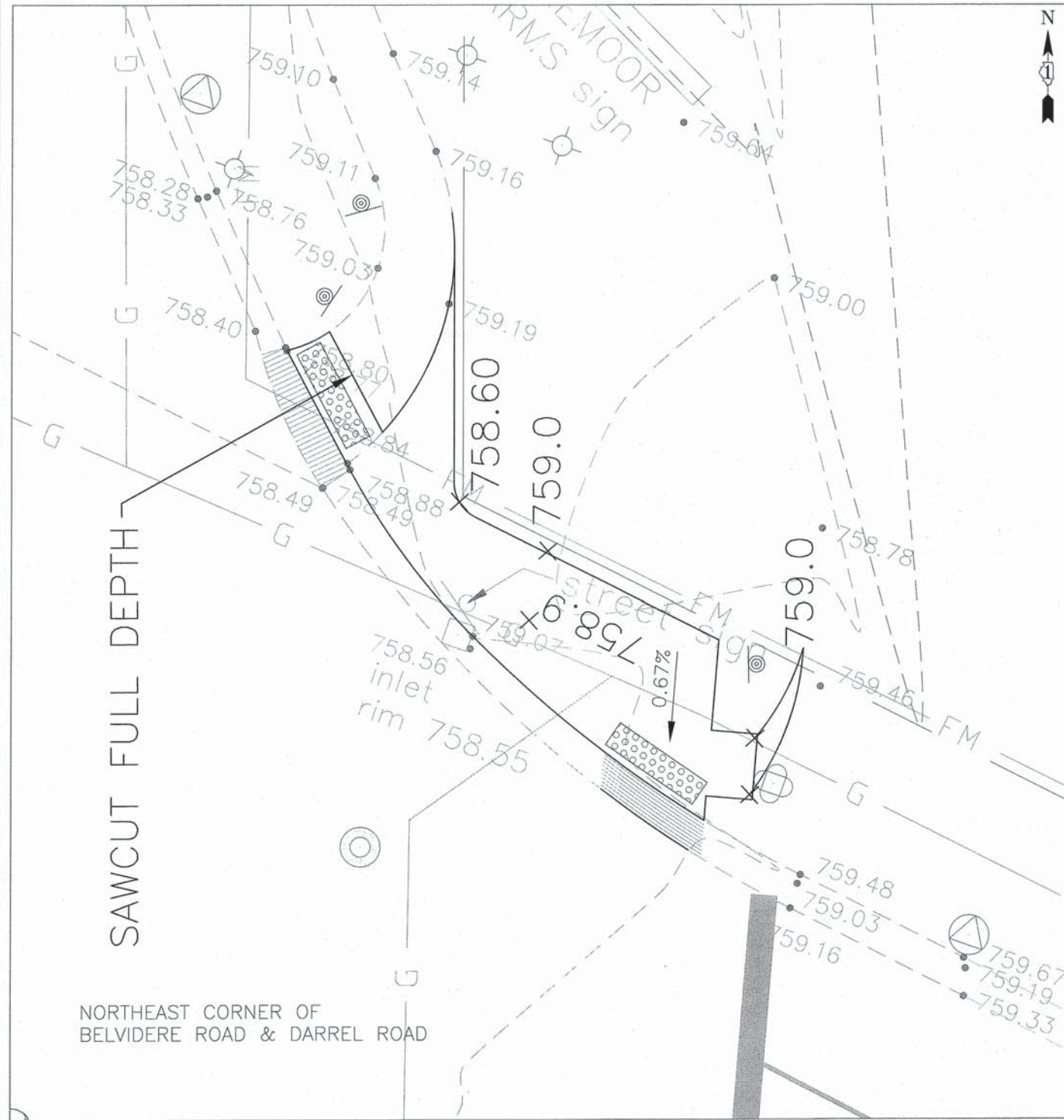
SCALE: H: 1"=10' V: 1"=5' STA. 241+50 TO STA. 246+50

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	101
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



	DESIGNED — C.K.	REVISED — 10/09/15 IDOT SUBMITTAL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS DARRELL ROAD		F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN — S.R.M.	REVISED — 12/07/15 FINAL PLANS		0012	14-00011-00-BT	MCHENRY	104	102		
	CHECKED — J.K.	REVISED — 12/29/15 IDOT REVIEW		C-91-209-15		CONTRACT NO. 61C28				
	DATE — 07/21/15	REVISED — 01/29/16 FINAL PLANS		STA. 247+00 TO STA. 250+00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-00D1997				

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

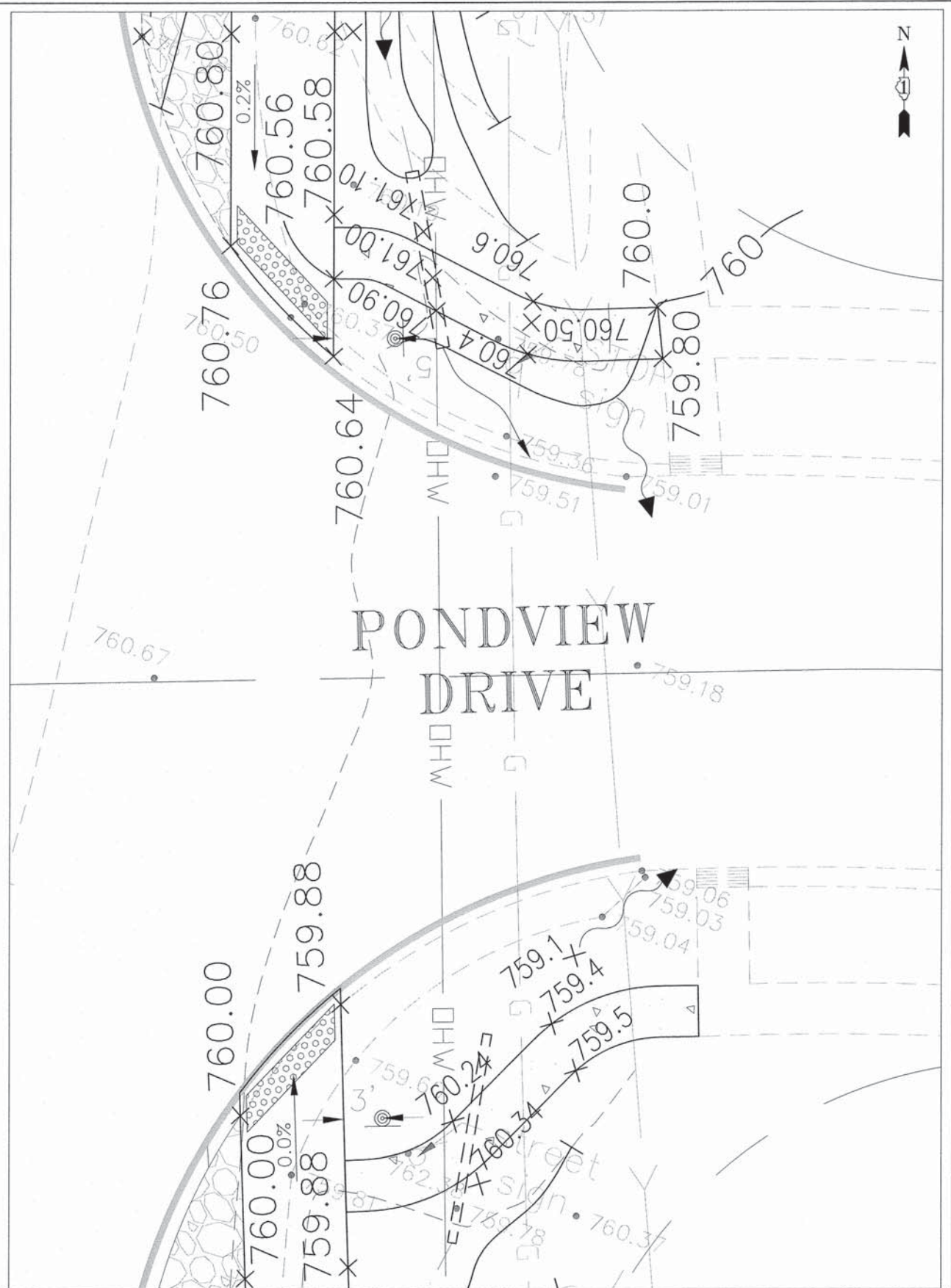
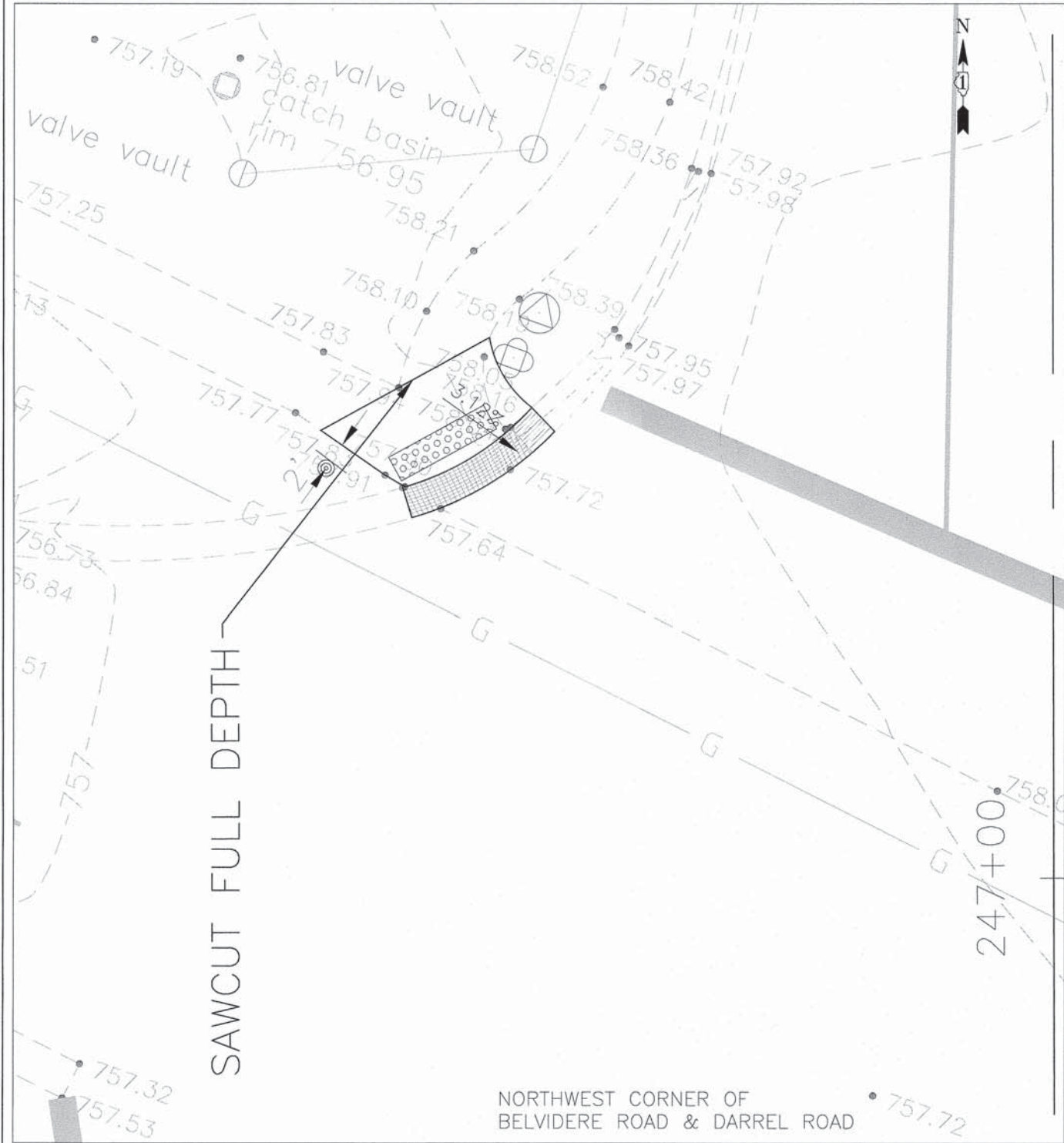


DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMPS AT CROSSWALKS BELVIDERE ROAD & DARRELL ROAD	
SCALE: 1"=5'	STA. 245+00 TO STA. 248+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	103
C-91-209-15		CONTRACT NO. 61C28		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				



DESIGNED - C.K.	REVISED - 10/09/15 IDOT SUBMITTAL
DRAWN - S.R.M.	REVISED - 12/07/15 FINAL PLANS
CHECKED - J.K.	REVISED - 12/29/15 IDOT REVIEW
DATE - 07/21/15	REVISED - 01/29/16 FINAL PLANS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ADA RAMP AT CROSSWALKS BELVIDERE ROAD & DARRELL ROAD	
SCALE: 1"=5'	STA. 245+00 TO STA. 248+00

F.A.U. STE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0012	14-00011-00-BT	MCHENRY	104	104
C-91-209-15			CONTRACT NO. 61C28	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TE-0001(997)				