

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	MCHENRY	108	1
ILLINOIS			CONTRACT NO. 62C34	

* 106 + 2 = 108 total sheets

D-91-338-16



LOCATION OF SECTION INDICATED THUS: -

FOR INDEX OF SHEETS AND STANDARDS,
SEE SHEET NO. 2

THIS PROJECT IS LOCATED
WITHIN UNINCORPORATED
MCHENRY COUNTY.

TRAFFIC DATA
IL ROUTE 47

ADT (2015) AT OBRIEN / VANDERKARR = 3863

ADT (2015) AT THAYER = 4483

POSTED SPEED LIMIT = 55 MPH

O'BRIEN ROAD

ADT = 1085

POSTED SPEED LIMIT = 55 MPH

VANDERKARR ROAD

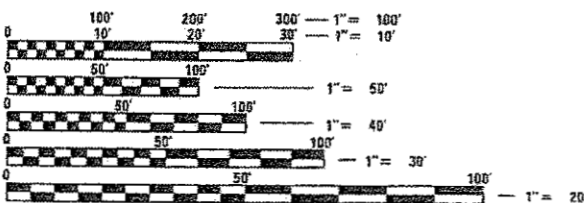
ADT = 875

POSTED SPEED LIMIT = 55 MPH

THAYER ROAD

ADT = 513

POSTED SPEED LIMIT = 55 MPH



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

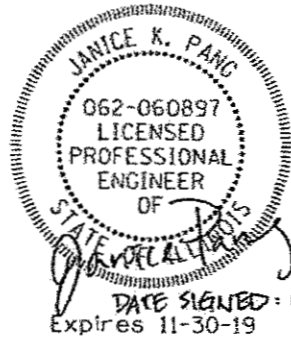
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT MANAGER: FAWAD AQUEEL, P.E. (847) 705-4247
PROJECT ENGINEER: RAGHAD ADEIS-DAHMAN, P.E. (847) 705-4237

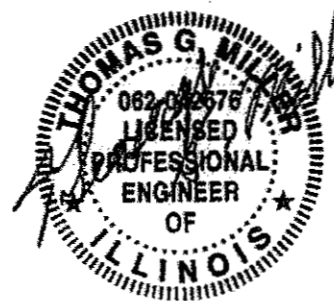
CONTRACT NO. 62C34

PROPOSED
HIGHWAY PLANS

FAP ROUTE 326 (IL ROUTE 47) AT
O'BRIEN/VANDERKARR ROAD AND
THAYER ROAD
SECTION: 104-N
PROJECT: HSIP-E59Q(751)
INTERSECTION IMPROVEMENTS
MCHENRY COUNTY
C-91-338-16



THIS SEAL IS FOR THE CIVIL WORK
FOR IL ROUTE 47 AT O'BRIEN / VANDERKARR

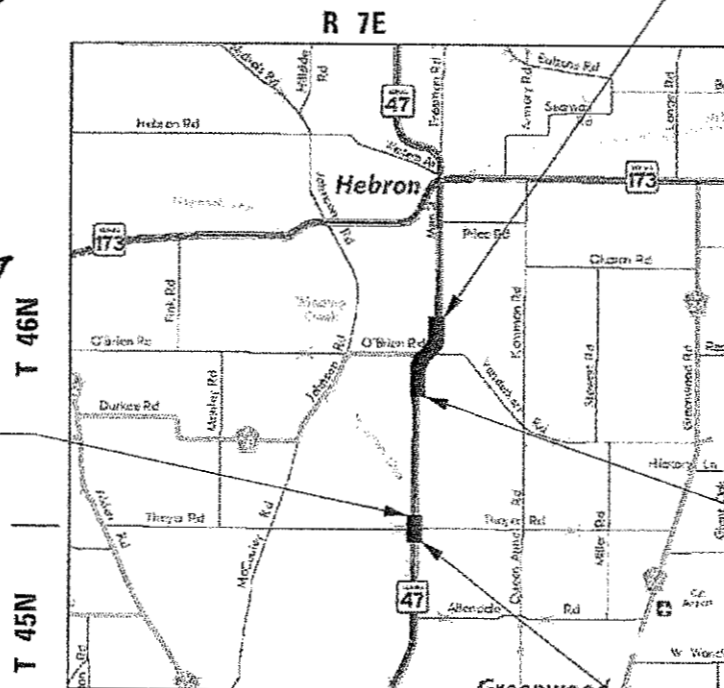


DATE SIGNED: 10/17/17
EXP. DATE: 11-30-17

THIS SEAL IS FOR THE CIVIL WORK
FOR IL ROUTE 47 AT THAYER ROAD

IMPROVEMENT ENDS
STA. 506 + 86

IMPROVEMENT ENDS
STA. 507 + 50



HEBRON TOWNSHIP
GREENWOOD TOWNSHIP

GROSS LENGTH = 2878 FT. = 0.54 MILE
NET LENGTH = 2878 FT. = 0.54 MILE



LOCATION MAP
(NOT TO SCALE)

IMPROVEMENT BEGINS
STA. 492 + 45

IMPROVEMENT BEGINS
STA. 493 + 13

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
SERVICE | SOLUTIONS | COMMITMENT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 19 20 17
Anthony J. Quinley REGIONAL ENGINEER
Nov 30 20 17
Maurice H. Adkins ENGINEER OF DESIGN AND ENVIRONMENT
Nov 30 20 17
Paula J. ... DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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DISTRICT ONE DETAILS

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TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
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TC-16	SHORT TERM PAVEMENT MARKING LETTERS & SYMBOLS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
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HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATES FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542411	SLOPED METAL END SECTIONS FOR PIPE CULVERTS 15" THRU 60" DIA.
542606-02	REINFORCED CONCRETE PIPE TEE
602011-02	CATCH BASIN TYPE C
604061-03	FRAME AND GRATE TYPE 12
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W 15' (4.5 mm) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	TYPICAL PAVEMENT MARKINGS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782001-01	CURB REFLECTORS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

PLOTTER

PLOTTER

FILE NAME = DIS2C34-INT-GENERAL.dgn
PLOTTER = HP-PLT

	USER NAME = jpong	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS AND THAYER ROAD INDEX OF SHEETS, HIGHWAY STANDARDS</p>	F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 2
	PLOT SCALE = 48.0000' / 1"	CHECKED -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 62C34	
184-001397	PLOT DATE = 11/3/2017	DATE -	REVISED -							

GENERAL NOTES


1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOURS NOTIFICATION REQUIRED)
- 1A. NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN INSTALLED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND MCHENRY COUNTY.
- 2A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. ANY PAVEMENT MARKINGS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
5. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
7. THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
8. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" AND AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOB SITE, NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE" AND "WETLAND PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
9. THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECTED WETLAND NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847)705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.
10. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
11. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
12. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
13. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
14. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
16. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION;
18. SILT FENCE SHOULD ONLY BE USED AS "PEB" IN AREAS WHERE THE WORK AREA IS HIGHER THAN THE PERIMETER. THE USE OF SILT FENCE AT THE TOP OF THE SLOPE/ELEVATIONS HIGHER THAN THE WORK AREA SHOULD ALWAYS BE AVOIDED. TEMPORARY FENCE SHOULD BE UTILIZED IN THESE LOCATIONS (WHERE THE TOP OF SLOPE/ELEVATION IS HIGHER THAN THE WORK AREA) IN PLACE OF SILT FENCE.
20. DRIVEWAYS ARE TO BE CONSTRUCTED TO THE R.O.W., UNLESS OTHERWISE NOTED.
21. WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
22. SHORT TERM PAVEMENT MARKING SHALL BE USED TO OUTLINE TRAVEL LANES FOR THE TACK COAT APPLICATION AND EACH RESURFACING LIFT.
23. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.
24. DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
25. STATIONING FOR ALL DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE DRAINAGE STRUCTURE, OFFSETS FOR CURB LINE INLETS AND CATCH BASINS ARE GIVEN TO THE EDGE OF PAVEMENT, OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE STRUCTURE. THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT ALL CURB LINE DRAINAGE STRUCTURES ARE PROPERLY ALIGNED WITH THE PROPOSED CURB & GUTTER.
26. ALL EXCESS MATERIAL (BROKEN CONCRETE, CULVERT PIPE, WASTE ROADWAY EXCAVATION, SURPLUS MATERIAL FROM SEWER TRENCHES, ETC.) SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITES AND OBTAIN PERMISSION AND ALL NECESSARY PERMITS TO USE SUCH DUMP SITES.
27. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW WASTE USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G. 1 AND 2 OF THE SWPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
28. IN THE CASE OF A WINTER SHUTDOWN, CONTRACTOR SHALL UTILIZE THERMOPLASTIC AND POLYUREA PAVEMENT MARKINGS IN LIEU OF PAVEMENT MARKING TAPE AS SHOWN ON THE SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN SHEETS.
29. THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.
30. TRENCH BACKFILL SHALL BE USED TO BACKFILL ALL TRENCHES WHERE THE EDGE OF THE TRENCH IS WITHIN 2 FEET OF THE PROPOSED EDGE OF PAVEMENT, CURB, CURB AND GUTTER OR SIDEWALK (BIKE PATH).
31. IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE MADE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
32. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
33. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
34. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT EMAIL: WALTER.CZARNY@ILLINOIS.GOV. A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
35. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
36. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
37. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS- RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" INCLUDED IN THE PLANS.
38. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
39. DE-ENERGIZING COMED'S DISTRIBUTION LINES (12 KV) MAY BE NECESSARY IN ORDER TO ACCOMMODATE THE CONTRACTOR'S EQUIPMENT. CALL 1-800-EDISONI.
40. MAINTENANCE OF TRAFFIC WIDTH RESTRICTION REQUIREMENT - THE CONTRACTOR SHALL NOTIFY THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, IN WRITING, WHEN THE CONTRACTOR RECEIVES AN AWARD LETTER FOR THE CONTRACT. THE LETTER SHALL STATE THE ANTICIPATED START DATE OF LANE WIDTH RESTRICTIONS. THE TWENTY-ONE (21) DAY NOTICE WILL START FROM THE AWARD DATE. NO WIDTH RESTRICTIONS WILL BE ALLOWED UNTIL TWENTY-ONE (21) DAYS AFTER RECEIVING NOTICE FROM THE CONTRACTOR. THE CONTRACTOR MAY ELECT TO PROVIDE THE ANTICIPATED START DATE OF LANE WIDTH RESTRICTIONS AT PRECONSTRUCTION MEETING AS LONG AS THERE IS A MINIMUM OF TWENTY-ONE (21) DAYS ADVANCED NOTICE.

COMMITMENTS:

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT IS MADE.

1. THERE IS NO TREE REMOVAL AS PART OF THIS PROJECT. NEITHER INTERSECTION IMPROVEMENT WILL INCLUDE TREE REMOVAL. SHOULD TREE REMOVAL BE IDENTIFIED IN PHASE III, PLEASE CONTACT VANESSA RUIZ, ESU AT (847) 705-4627 FOR FURTHER COORDINATION REGARDING THE NORTHERN LONG-EAR BAT (NLEB).

FILE NAME = D:\2017\11\18\11-18-17\11-18-17.dgn

 <p>CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397</p>	USER NAME = jparag	DESIGNED -	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS GENERAL NOTES AND COMMITMENTS</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.0000' / 1" =	DRAWN -	REVISED -			326	104-N	McHENRY	106	3
	PLOT DATE = 10/12/2017	CHECKED -	REVISED -			CONTRACT NO. 62C34			ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				HSIP FUNDS		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
				ROADWAY 0004 THAYER	ROADWAY 0004 O' BRIEN	STRUCTURAL 0010 O' BRIEN
20101000	TEMPORARY FENCE	FOOT	793	382	411	
20101200	TREE ROOT PRUNING	EACH	12	12		
20200100	EARTH EXCAVATION	CU YD	5391	1785	3606	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1974		1974	
20400800	FURNISHED EXCAVATION	CU YD	1512		1512	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	290			290
20800150	TRENCH BACKFILL	CU YD	72	45	27	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3460	992	2468	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	3270	860	2410	
25000210	SEEDING, CLASS 2A	ACRE	2.8	1.0	1.8	
25000310	SEEDING, CLASS 4	ACRE	1.3		1.3	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	349	80	269	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	349	80	269	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	349	80	269	

* = SPECIALTY ITEMS

#PLTDRVL*
 #PENTBL*
 FILE NAME = D:\2024\184-001397.dgn
 PLOT DATE = 10/19/2017

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 184-001397

USER NAME = jpeng	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/19/2017	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN/VANDERKARR ROADS
 SUMMARY OF QUANTITIES**

F.A.P. RTE. 326	SECTION 104-N	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 4
SCALE: SHEET 1 OF 10 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 62C34	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				HSIP FUNDS		
				90% FED 10% STATE ROADWAY	90% FED 10% STATE ROADWAY	90% FED 10% STATE STRUCTURAL
				0004 THAYER	0004 O' BRIEN	0010 O' BRIEN
25100630	EROSION CONTROL BLANKET	SQ YD	18921	4493	14428	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1713	178	1535	
28000305	TEMPORARY DITCH CHECKS	FOOT	370	120	250	
28000400	PERIMETER EROSION BARRIER	FOOT	4466	2698	1768	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	14428		14428	
28100127	STONE RIPRAP, CLASS B4	SQ YD	271			271
28200200	FILTER FABRIC	SQ YD	271			271
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	940	331	609	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	10052	3967	6085	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2853		2853	
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	466	142	324	
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	47	47		
35501306	HOT-MIX ASPHALT BASE COURSE, 5 1/2"	SQ YD	3497	1429	2068	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	33	33		

* = SPECIALTY ITEMS

#PLTDPVLS

#PENTBLS

FILE NAME = D:\62034\HW\5002.dgn
#SYSPRINTER.NAME

14

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = jpong	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN/VANDERKARR ROADS
SUMMARY OF QUANTITIES**

SCALE: SHEET 2 OF 10 SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 104-N	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C34	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				HSIP FUNDS		
				90% FED 10% STATE ROADWAY	90% FED 10% STATE ROADWAY	90% FED 10% STATE STRUCTURAL
				0004 THAYER	0004 O' BRIEN	0010 O' BRIEN
35501313	HOT-MIX ASPHALT BASE COURSE, 7 1/4"	SQ YD	2976	1152	1824	
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	413	89	324	
35501323	HOT-MIX ASPHALT BASE COURSE, 9 3/4"	SQ YD	440		440	
35600705	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4"	SQ YD	1509	1059	450	
35600715	HOT-MIX ASPHALT BASE COURSE WIDENING, 9 3/4"	SQ YD	507		507	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	14032	6370	7662	
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	816	339	477	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	63	49	14	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	57	20	37	
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	1909	796	1113	
44000100	PAVEMENT REMOVAL	SQ YD	3230		3230	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	11579	4481	7098	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	552	94	458	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	265		265	

* = SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN/VANDERKARR ROADS
SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	MCHENRY	106	6
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 3 OF 10 SHEETS STA. TO STA.

14

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				HSIP FUNDS		
				90% FED 10% STATE ROADWAY	90% FED 10% STATE ROADWAY	90% FED 10% STATE STRUCTURAL
				0004 THAYER	0004 O' BRIEN	0010 O' BRIEN
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	124	124		
44201867	CLASS D PATCHES, TYPE III, 18 INCH	SQ YD	18		18	
44201869	CLASS D PATCHES, TYPE IV, 18 INCH	SQ YD	383		383	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	371	41	330	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1
50105220	PIPE CULVERT REMOVAL	FOOT	324	324		
50200100	STRUCTURE EXCAVATION	CU YD	535			535
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	130			130
50800105	REINFORCEMENT BARS	POUND	48160			48160
50800515	BAR SPLICERS	EACH	124			124
51500100	NAME PLATES	EACH	1			1
52200010	TEMPORARY SHEET PILING	SQ FT	584			584
54003000	CONCRETE BOX CULVERTS	CU YD	255.8			255.8

* = SPECIALTY ITEMS

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 184-001397

USER NAME = jwang	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN/VANDERKARR ROADS
 SUMMARY OF QUANTITIES**

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 7
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 4 OF 10 SHEETS STA. TO STA.

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				HSIP FUNDS		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
				ROADWAY 0004 THAYER	ROADWAY 0004 O'BRIEN	STRUCTURAL 0010 O'BRIEN
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2		
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	5	4	1	
54216560	REINFORCED CONCRETE PIPE TEE, 18" PIPE WITH 15" RISER	EACH	2	2		
54260418	SLOPED METAL END SECTION, STANDARD 542411, 18", 1:4	EACH	6	6		
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	36	36		
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	120	120		
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	108	108		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	55		55	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	133		133	
55100500	STORM SEWER REMOVAL 12"	FOOT	62		62	
60208105	CATCH BASINS, TYPE C, TYPE 12 FRAME AND GRATE	EACH	1		1	
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1		1	
60500060	REMOVING INLETS	EACH	1		1	
60600605	CONCRETE CURB, TYPE B	FOOT	59		59	

* = SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN/VANDERKARR ROADS
SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	8
				CONTRACT NO. 62C34
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				HSIP FUNDS		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
				ROADWAY 0004 THAYER	ROADWAY 0004 O'BRIEN	STRUCTURAL 0010 O'BRIEN
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	30		30	
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	52		52	
60610900	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 (VARIABLE WIDTH GUTTER FLAG)	FOOT	61		61	
60625600	ISLAND PAVEMENT (6")	SQ YD	63		63	
63200310	GUARDRAIL REMOVAL	FOOT	692		692	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD				
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH				
67100100	MOBILIZATION	LSUM	1	0.5	0.5	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	6344	4224	2120	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1018	310	708	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	145.6		145.6	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18226		18226	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	780		780	

* = SPECIALTY ITEMS

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 184-001397

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN/VANDERKARR ROADS
 SUMMARY OF QUANTITIES**

F.A.P. RTE. 326	SECTION 104-N	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C34	

SCALE: SHEET 6 OF 10 SHEETS STA. TO STA.

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19

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				HSIP FUNDS		
				90% FED 10% STATE ROADWAY	90% FED 10% STATE ROADWAY	90% FED 10% STATE STRUCTURAL
				0004 THAYER	0004 O' BRIEN	0010 O' BRIEN
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	795		795	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	740		740	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	120		120	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	35268	12423	22845	
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	154	89	65	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3737.5	1400	2337.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3025	1325	1700	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	10	6	4	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	8	6	2	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	328	93	235	
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	8		8	
* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	6		6	
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	6	1	5	
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	2		2	

* = SPECIALTY ITEMS

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 184-001397

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN/VANDERKARR ROADS
 SUMMARY OF QUANTITIES**

SCALE: SHEET 7 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	10
				CONTRACT NO. 62C34
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				HSIP FUNDS		
				90% FED 10% STATE ROADWAY	90% FED 10% STATE ROADWAY	90% FED 10% STATE STRUCTURAL
				0004 THAYER	0004 O'BRIEN	0010 O'BRIEN
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	495		495	
72900100	METAL POST - TYPE A	FOOT	25	25		
72900200	METAL POST - TYPE B	FOOT	92	92		
73000100	WOOD SIGN SUPPORT	FOOT	31	31		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	146	73	73	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	17451	8338	9113	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	712	322	390	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	398		398	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	471	100	371	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	88	28	60	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	190	80	110	
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	428	168	260	
78100300	REPLACEMENT REFLECTOR	EACH	18	6	12	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	489	165	324	

* = SPECIALTY ITEMS

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 184-001397

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN/VANDERKARR ROADS
 SUMMARY OF QUANTITIES**

SCALE: SHEET 8 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	MCHEMRY	106	11
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

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14

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				HSIP FUNDS		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
				ROADWAY 0004 THAYER	ROADWAY 0004 O'BRIEN	STRUCTURAL 0010 O'BRIEN
* 78200020	CURB REFLECTORS	EACH	23		23	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	56	20	36	
X0301797	GATE REMOVAL	EACH	2	2		
X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	416			416
X0327301	RELOCATE EXISTING MAILBOX	EACH	1	1		
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5062	1019	4043	
X1200075	GRATING FOR CONCRETE FLARED END SECTION 18"	EACH	4	4		
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1	1		
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	4	2	2	
X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	1	1		
X4402805	ISLAND REMOVAL	SQ FT	402		402	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	0.5	0.5	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	98	42	56	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	11666	4319	7347	

* = SPECIALTY ITEMS

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 184-001397

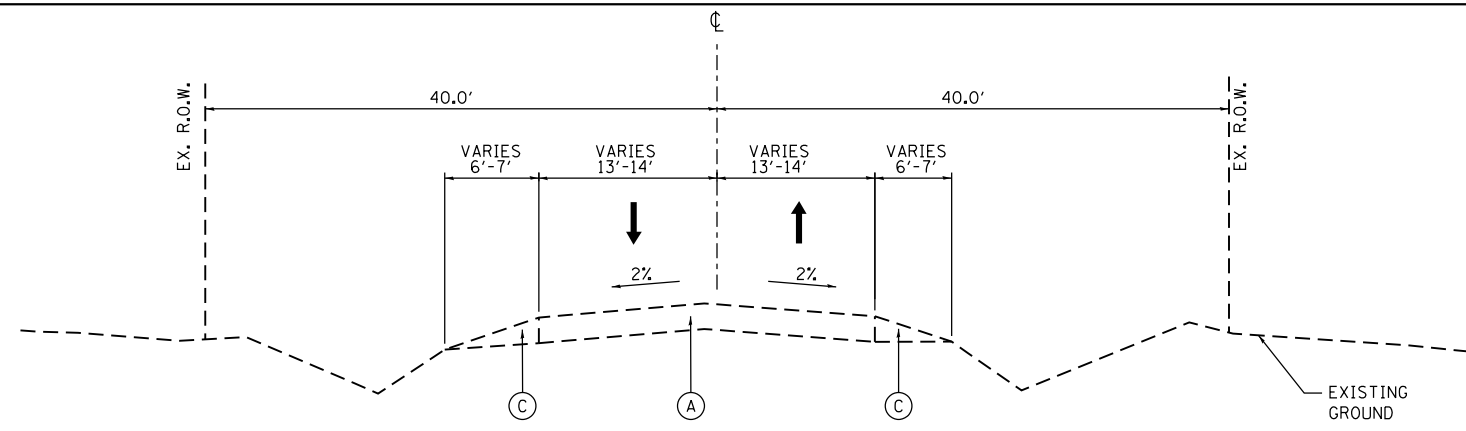
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN/VANDERKARR ROADS
 SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	12
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

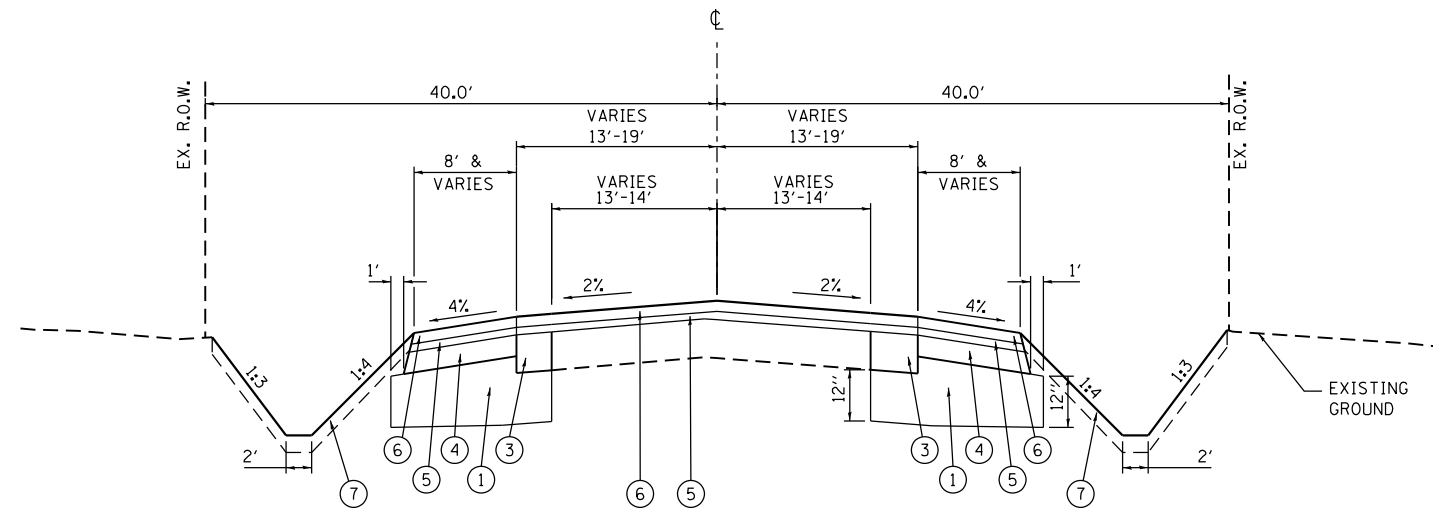
SCALE: SHEET 9 OF 10 SHEETS STA. TO STA.



EXISTING TYPICAL SECTION

IL ROUTE 47

STA. 493+13 TO STA. 506+86

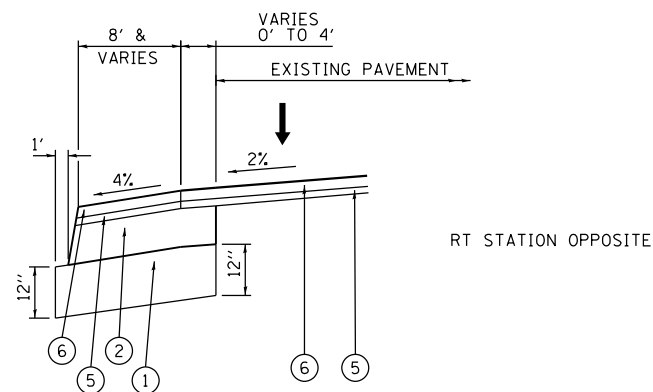


PROPOSED TYPICAL SECTION

IL ROUTE 47

STA. 493+13 TO STA. 506+86

(SEE SPECIAL SHOULDER DETAIL BELOW FOR SHOULDER EXCEPTION AT THE BEGINNING AND END OF IMPROVEMENT)



SPECIAL SHOULDER DETAIL

IL ROUTE 47

LT STA. 493+13 TO LT STA. 496+25
 RT STA. 493+13 TO RT STA. 495+35
 LT STA. 503+75 TO LT STA. 506+86
 RT STA. 504+45 TO RT STA. 506+86

EXISTING LEGEND

- (A) HMA PAVEMENT
- (B) CONCRETE BASE COURSE
- (C) AGGREGATE SHOULDER

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) HOT-MIX ASPHALT BASE COURSE, 7/4"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7/4"
- (4) HOT-MIX ASPHALT BASE COURSE, 5/2"
- (5) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (6) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- (7) TOPSOIL, 6"

HMA MIXTURE REQUIREMENTS CHART

OPERATION	MIXTURE TYPE	AIR VOIDS (%) @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING	POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	4% @ 70 GYR. 3.5% @ 50 GYR.	OCP QC/QA
PAVEMENT WIDENING	POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" HMA BASE COURSE, 7/4" (HMA BINDER IL-19.0) HMA BASE COURSE WIDENING, 7/4" (HMA BINDER IL-19.0).	4% @ 70 GYR. 3.5% @ 50 GYR. 4% @ 70 GYR. 4% @ 70 GYR.	OCP QC/QA OCP OCP
PAVEMENT WIDENING (MOT)	HMA BASE COURSE, 9 3/4" (HMA BINDER IL-19.0) HMA BASE COURSE WIDENING, 9 3/4" (HMA BINDER IL-19.0).	4% @ 70 GYR. 4% @ 70 GYR.	QC/QA QC/QA
SHOULDER PAVEMENT	POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" HMA BASE COURSE, 5/2" (HMA BINDER IL-19.0)	4% @ 70 GYR. 3.5% @ 50 GYR. 4% @ 70 GYR.	OCP QC/QA OCP
PATCHING	CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
PRIVATE ENTRANCE DRIVEWAY	HMA SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2" HMA BASE COURSE (HMA BINDER IL-19.0), 6"	4% @ 50 GYR. 4% @ 50 GYR.	QC/QA QC/QA
COMMERCIAL ENTRANCE DRIVEWAY	HMA SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2" HMA BASE COURSE (HMA BINDER IL-19.0), 8"	4% @ 50 GYR. 4% @ 50 GYR.	QC/QA QC/QA
RURAL FIELD ENTRANCE	HMA SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.	QC/QA
•TEMPORARY PAVEMENT	HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2" TEMP PAVEMENT (HMA BINDER IL-19.0), 6"	4% @ 70 GYR. 4% @ 70 GYR.	QC/QA QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR 76-22"; AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
- 5. THE PCC TEMPORARY PAVEMENT OPTION SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF SECTION 1020 OF THE STANDARD SPECIFICATIONS; THICKNESS SHALL BE 8". TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS. ALL TEMPORARY PAVEMENT SHALL BE PROVIDED OVER A 4" SUBBASE GRANULAR MATERIAL, TYPE B.

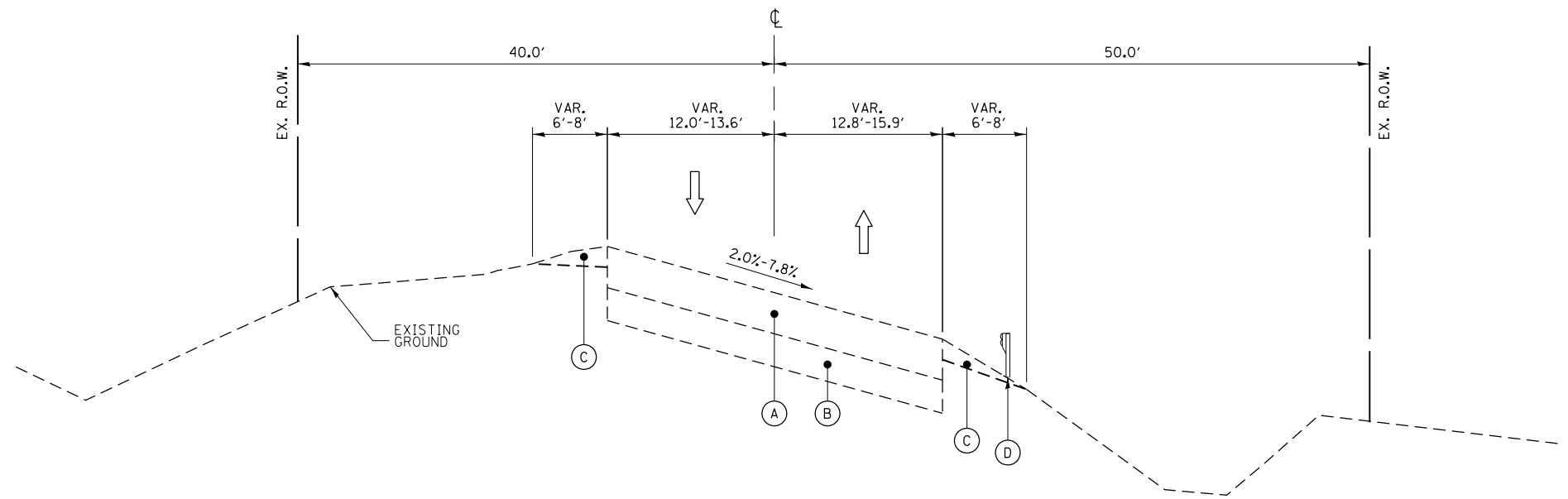
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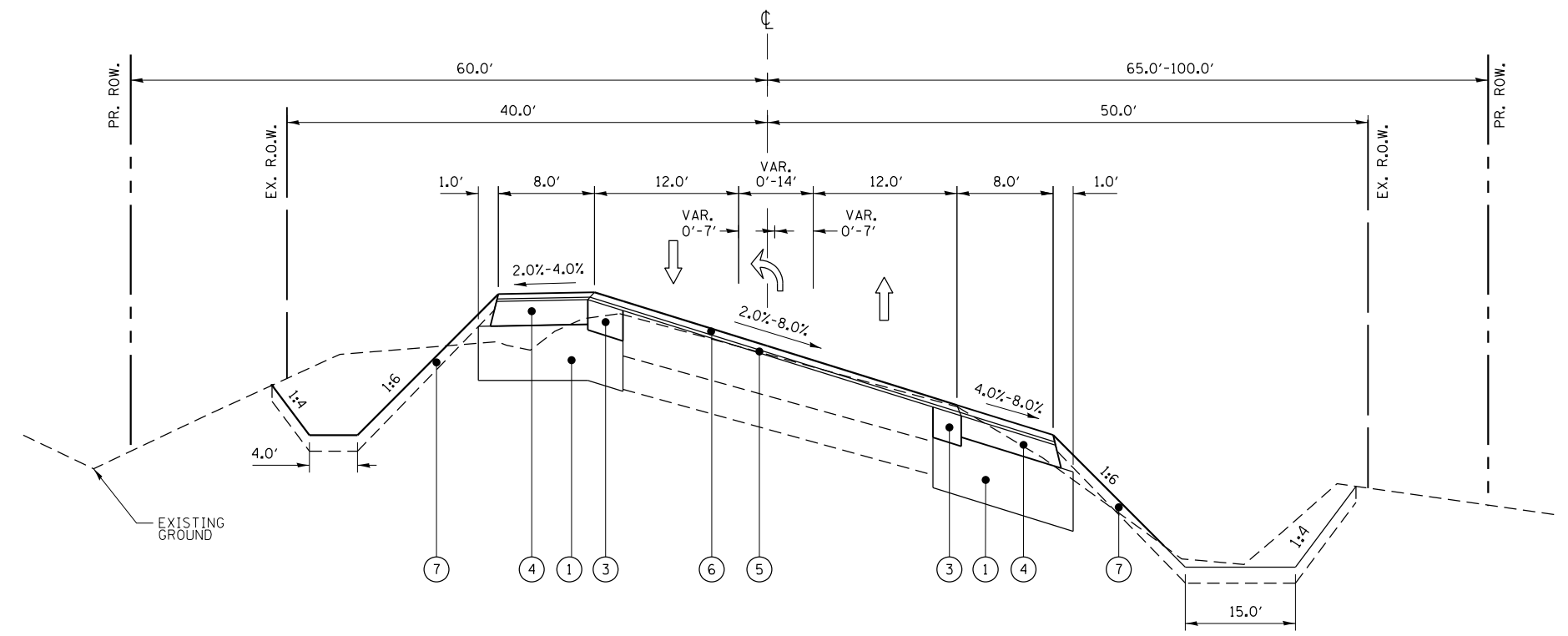
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 47 AT THAYER ROAD TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		326	104-N	McHENRY	106	13
SCALE:		SHEET OF SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT
						CONTRACT NO. 62C34



EXISTING TYPICAL SECTION
IL ROUTE 47
 STA. 492+45 TO STA. 498+50



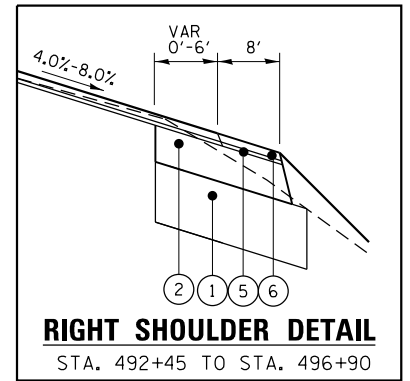
PROPOSED TYPICAL SECTION
IL ROUTE 47
 STA. 492+45 TO STA. 498+50

EXISTING LEGEND

- (A) HMA PAVEMENT
- (B) CONCRETE BASE COURSE
- (C) AGGREGATE SHOULDER
- (D) GUARDRAIL

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - (2) HOT-MIX ASPHALT BASE COURSE, 7 1/4" **
 - (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4" **
 - (4) HOT-MIX ASPHALT BASE COURSE, 5 1/2"
 - (5) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 - (6) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
 - (7) TOPSOIL, 6"
- ** IN AREAS WHERE HOT-MIX ASPHALT BASE COURSE WIDENING AND HOT-MIX ASPHALT BASE COURSE WILL BE UTILIZED FOR MAINTENANCE OF TRAFFIC STAGES, THE THICKNESS OF THESE COURSES SHALL BE 9 3/4" TO MATCH ADJACENT PAVEMENT.



RIGHT SHOULDER DETAIL
 STA. 492+45 TO STA. 496+90

\$PLOTDRVL\$

\$PENTBL\$

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CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 184-001397

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PLOT DATE = 10/12/2017	CHECKED -	REVISED -
	DATE -	REVISED -

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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	14
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

\$PLOTDRVL\$

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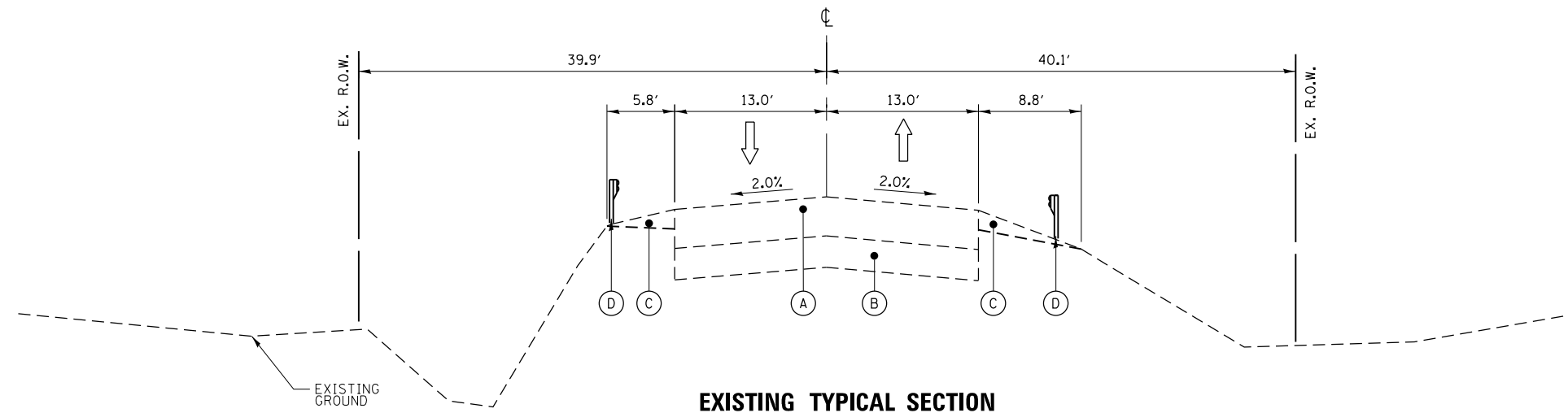
EXISTING LEGEND

- (A) HMA PAVEMENT
- (B) CONCRETE BASE COURSE
- (C) AGGREGATE SHOULDER
- (D) GUARDRAIL

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) HOT-MIX ASPHALT BASE COURSE, 7 1/4" **
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- (6) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
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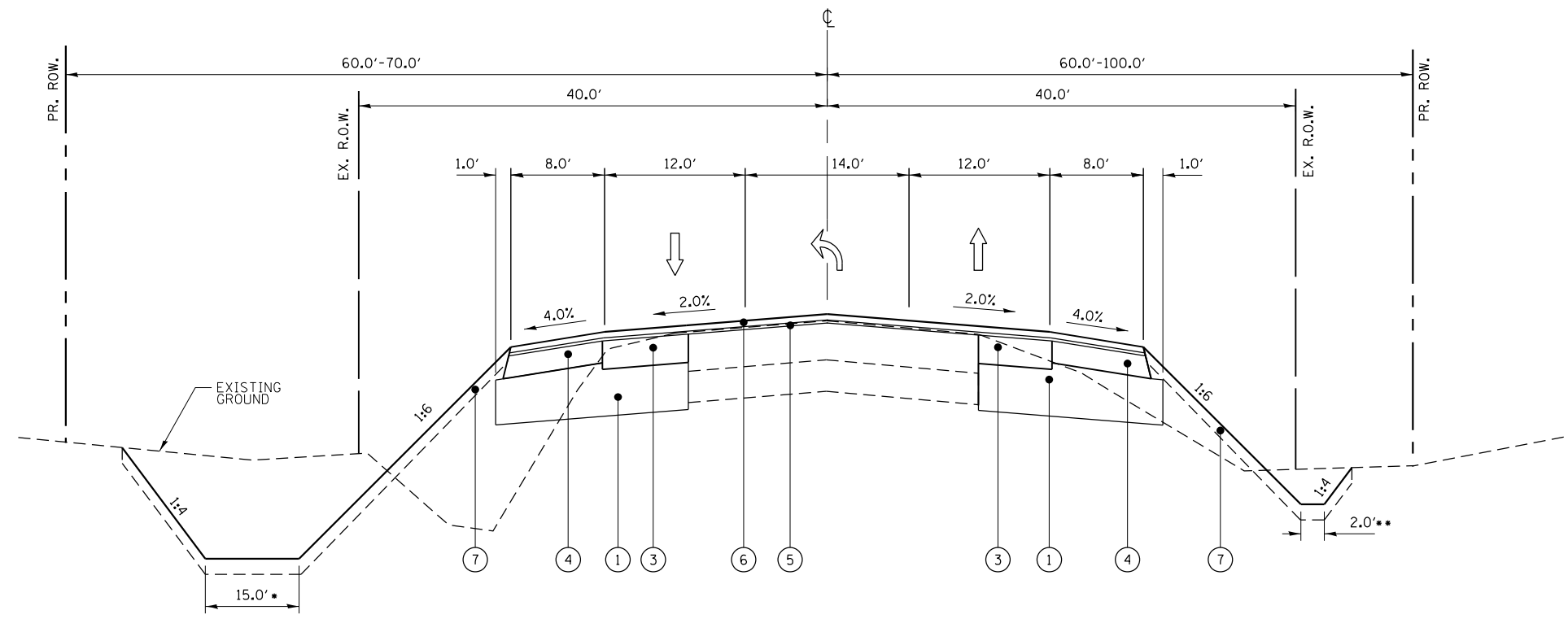
** IN AREAS WHERE HOT-MIX ASPHALT BASE COURSE WIDENING AND HOT-MIX ASPHALT BASE COURSE WILL BE UTILIZED FOR MAINTENANCE OF TRAFFIC STAGES, THE THICKNESS OF THESE COURSES SHALL BE 9 3/4" TO MATCH ADJACENT PAVEMENT.



EXISTING TYPICAL SECTION

IL ROUTE 47

STA. 498+50 TO STA. 499+70
STA. 500+30 TO STA. 502+00



PROPOSED TYPICAL SECTION

IL ROUTE 47

STA. 498+50 TO STA. 499+70
STA. 500+30 TO STA. 502+00

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

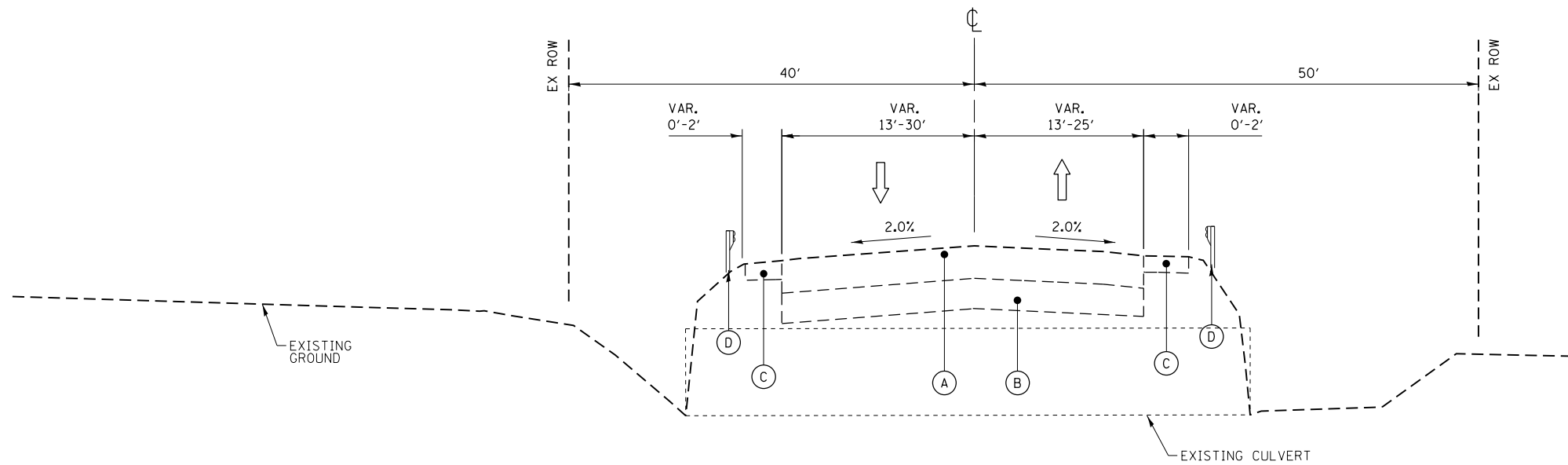
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	15
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

IL ROUTE 47

STA. 499+70 TO STA. 500+30

EXISTING LEGEND

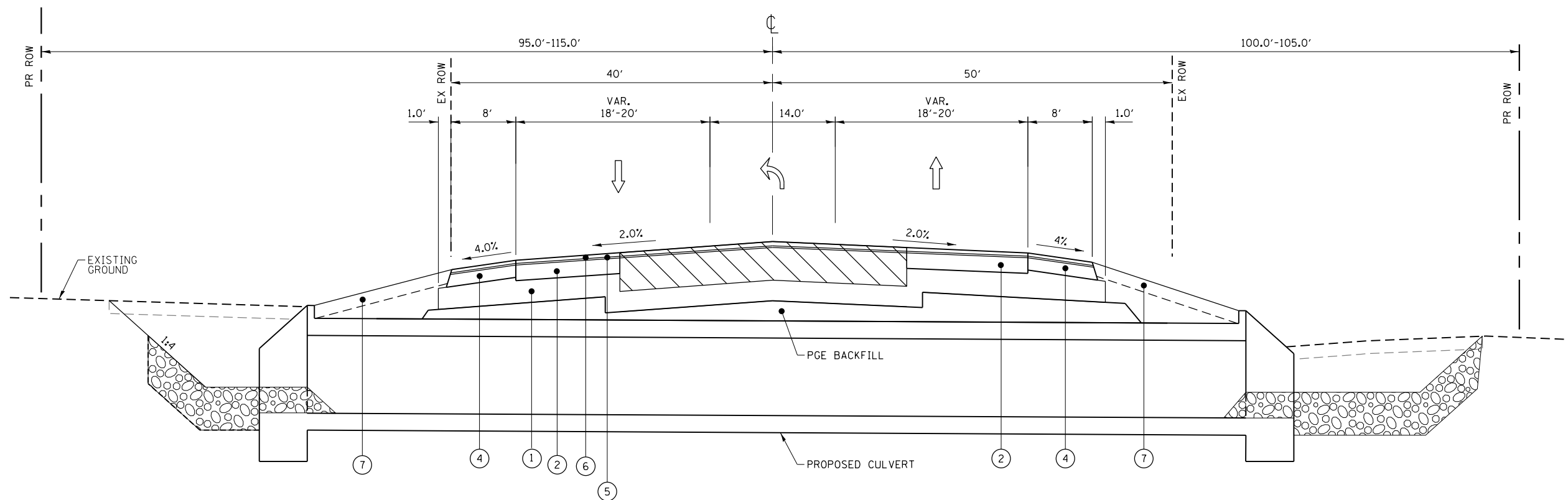
- (A) HMA PAVEMENT
- (B) CONCRETE BASE COURSE
- (C) AGGREGATE SHOULDER
- (D) GUARDRAIL

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) HOT-MIX ASPHALT BASE COURSE, 7 1/4" **
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4" **
- (4) HOT-MIX ASPHALT BASE COURSE, 5 1/2"
- (5) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (6) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- (7) TOPSOIL, 6"

** IN AREAS WHERE HOT-MIX ASPHALT BASE COURSE WIDENING AND HOT-MIX ASPHALT BASE COURSE WILL BE UTILIZED FOR MAINTENANCE OF TRAFFIC STAGES, THE THICKNESS OF THESE COURSES SHALL BE 9 3/4" TO MATCH ADJACENT PAVEMENT.

- CLASS D PATCH 18"



PROPOSED TYPICAL SECTION

IL ROUTE 47

STA. 499+70 TO STA. 500+30

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CONSULTING ENGINEERS
184-001397

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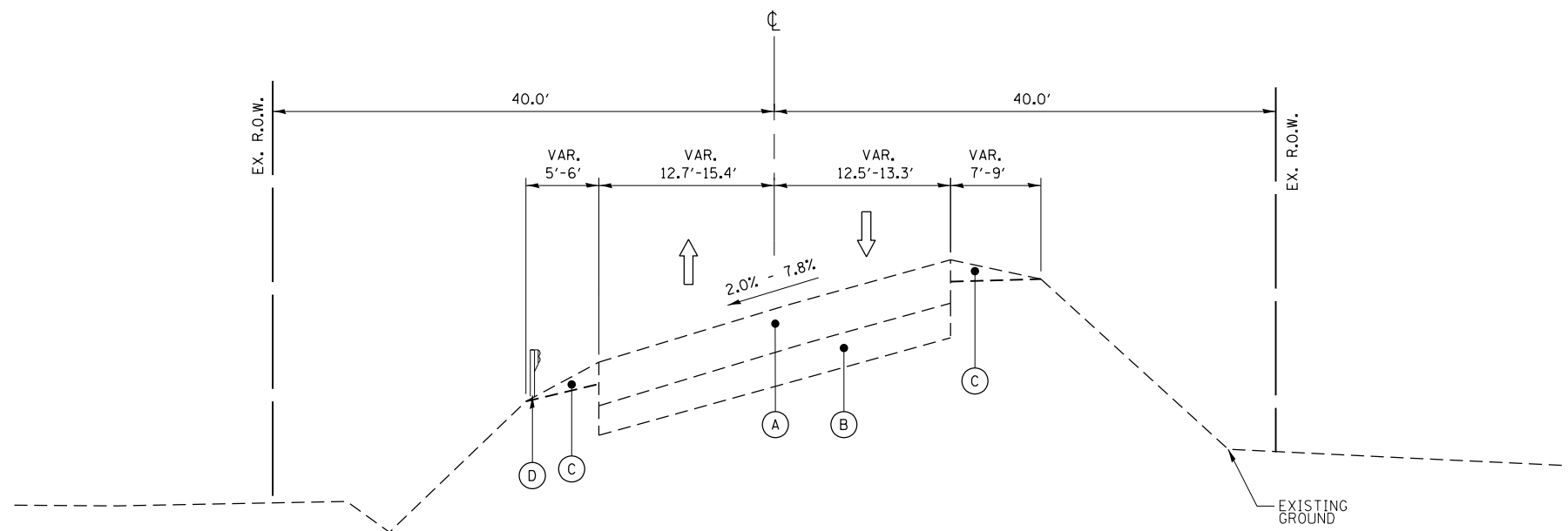
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DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	16
CONTRACT NO. 62C34			ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION

IL ROUTE 47

STA. 502+00 TO STA. 507+50

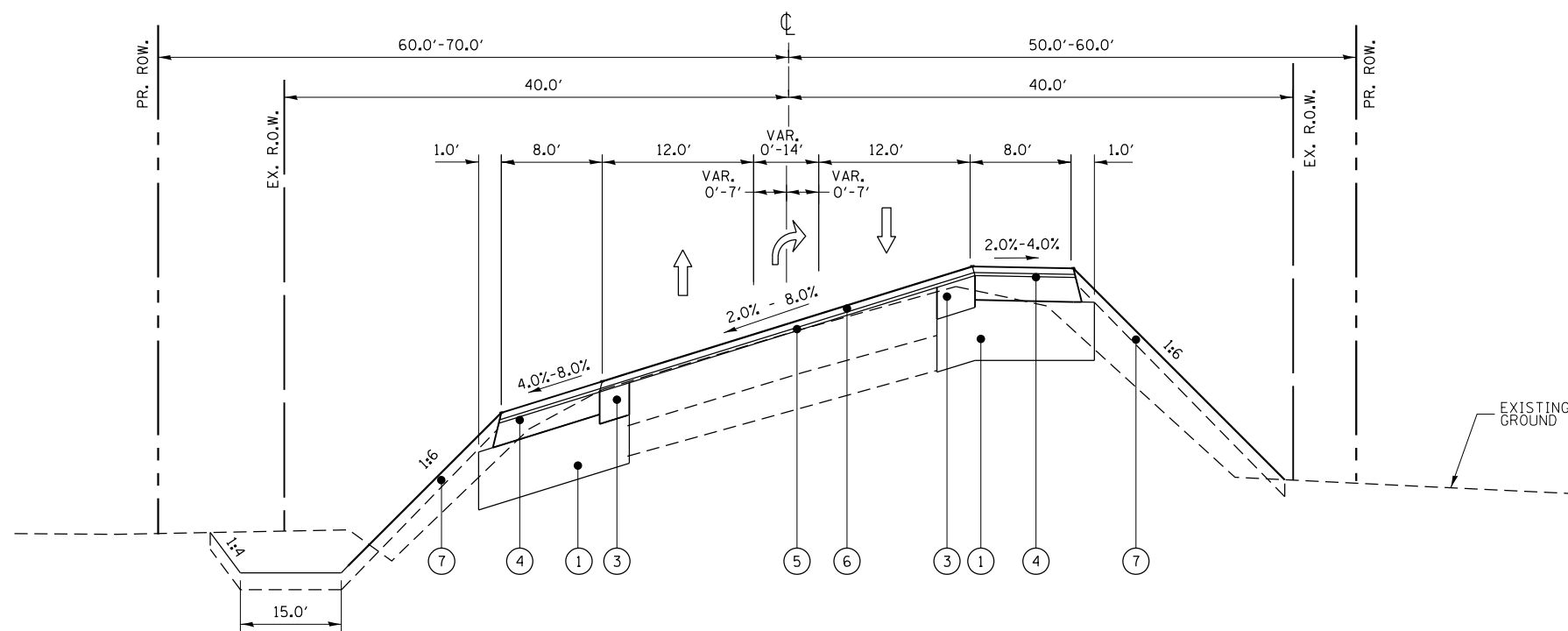
EXISTING LEGEND

- (A) HMA PAVEMENT
- (B) CONCRETE BASE COURSE
- (C) AGGREGATE SHOULDER
- (D) GUARDRAIL

PROPOSED LEGEND

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- (2) HOT-MIX ASPHALT BASE COURSE, 7 1/4" ***
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- (7) TOPSOIL, 6"

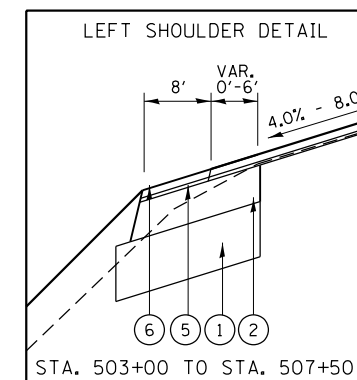
*** IN AREAS WHERE HOT-MIX ASPHALT BASE COURSE WIDENING AND HOT-MIX ASPHALT BASE COURSE WILL BE UTILIZED FOR MAINTENANCE OF TRAFFIC STAGES, THE THICKNESS OF THESE COURSES SHALL BE 9 3/4" TO MATCH ADJACENT PAVEMENT.



PROPOSED TYPICAL SECTION

IL ROUTE 47

STA. 502+00 TO STA. 507+50



STA. 503+00 TO STA. 507+50

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CHECKED -
PLOT DATE = 10/12/2017
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
TYPICAL SECTIONS

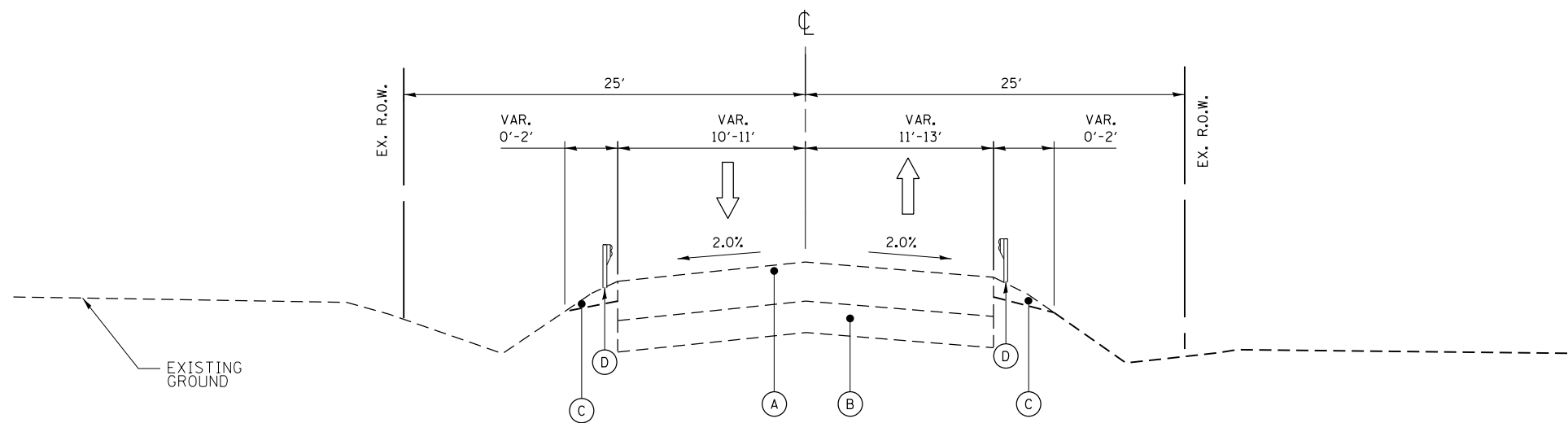
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	17
CONTRACT NO. 62C34			ILLINOIS FED. AID PROJECT	

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**EXISTING TYPICAL SECTION
O'BRIEN/VANDERKARR ROAD**

STA. 197+40 TO STA. 202+25

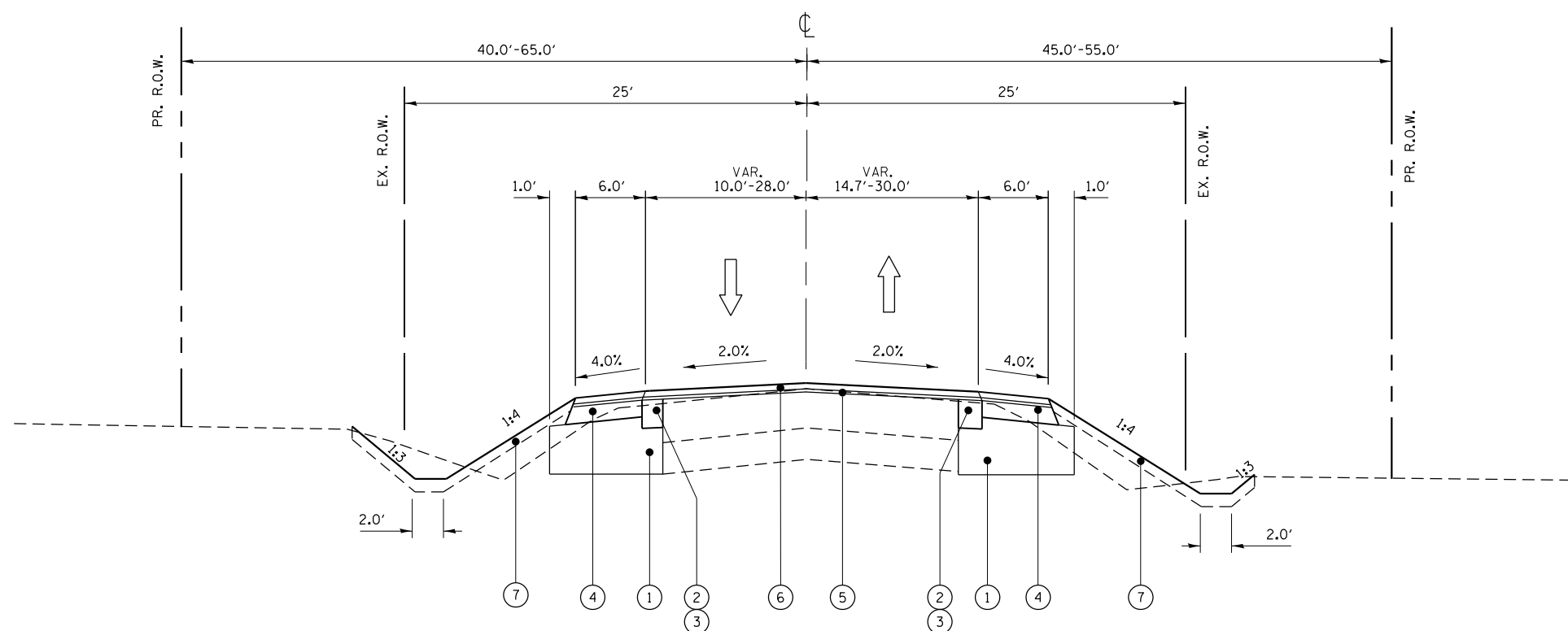
EXISTING LEGEND

- (A) HMA PAVEMENT
- (B) CONCRETE BASE COURSE
- (C) AGGREGATE SHOULDER
- (D) GUARDRAIL

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) HOT-MIX ASPHALT BASE COURSE, 7 1/4" **
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**PROPOSED TYPICAL SECTION
O'BRIEN/VANDERKARR ROAD**

STA. 197+40 TO STA. 202+25



USER NAME = jpong	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 13.3342' / 1"	CHECKED -	REVISED -
PLOT DATE = 10/12/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	18
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

HOT-MIX ASPHALT PAVEMENT SCHEDULE											
STATION	STATION	OFFSET (LT/RT)	HOT-MIX ASPHALT BASE COURSE, 8" (SQ YD)	HOT-MIX ASPHALT BASE COURSE, 6" (SQ YD)	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4" (SQ YD)	HOT-MIX ASPHALT BASE COURSE, 7 1/4" (SQ YD)	HOT-MIX ASPHALT BASE COURSE, 5 1/2" (SQ YD)	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50 (TON)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (TON)	HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (TON)	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT (SQ YD)
497+24	CE	RT	40							5	
498+02	FE	LT								5	
498+09	CE	RT	49							6	
493+13	496+25	LT					322				
493+13	495+35	RT					243				
503+75	506+86	LT					322				
504+45	506+86	RT					265				
496+25	499+87	LT			173			317			
495+35	499+91	RT			367			408			
500+11	503+75	LT			187			319			
500+13	504+45	RT			332			385			
493+13	499+42	LT & RT						147	345		
499+42	500+56	LT & RT						46	108		
500+56	506+86	LT & RT						146	343		
505+69	PE	LT		33						4	
493+13	IL 47										13
200+79	THAYER RD.										11
199+36	THAYER RD.										12
506+86	IL 47										13
TOTAL			89	33	1059	1152	1429	339	796	20	49

BITUMINOUS MATERIALS SCHEDULE			
STATION	STATION	OFFSET (LT/RT)	BITUMINOUS MATERIALS (TACK COAT) (POUND)
493+13	499+42	LT & RT	2375
499+42	500+56	LT & RT	746
500+56	506+86	LT & RT	2362
493+13	499+91	RT	229
493+13	499+87	LT	183
500+11	506+86	LT	187
500+13	506+86	RT	221
497+24	CE	RT	10
498+02	FE	LT	10
498+09	CE	RT	11
505+69	PE	LT	8
195+61	195+74	LT & RT	14
200+23	200+39	LT & RT	14
TOTAL			6370

AGGREGATE SHOULDERS SCHEDULE		
STATION	OFFSET (LT/RT)	AGGREGATE SHOULDERS, TYPE B 6" (SQ YD)
493+00	LT	8.0
493+00	RT	6.5
507+00	LT	7.9
507+00	RT	7.0
199+00	LT	4.2
199+00	RT	2.3
200+90	LT	2.2
200+90	RT	2.3
TOTAL		41

AGGREGATE SUBGRADE IMPROVEMENT SCHEDULE			
STATION	STATION	OFFSET (LT/RT)	AGGREGATE SUBGRADE IMPROVEMENT, 12" (SQ YD)
493+13	499+87	LT	902
493+13	499+91	RT	1095
500+11	506+86	LT	912
500+13	506+86	RT	1058
TOTAL			3967

HOT-MIX ASPHALT SURFACE REMOVAL SCHEDULE			
STATION	STATION	OFFSET (LT/RT)	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" (SQ YD)
493+13	499+50	LT & RT	1877
499+50	500+46	LT & RT	743
500+46	506+86	LT & RT	1861
TOTAL			4481

PERIMETER EROSION BARRIER SCHEDULE			
STATION	STATION	OFFSET (LT/RT)	PERIMETER EROSION BARRIER (FOOT)
493+13	497+09	RT	396
493+13	499+72	LT	684
497+41	497+84	RT	43
498+23	499+75	RT	221
500+31	506+86	RT	696
500+28	505+55	LT	554
505+81	506+86	LT	104
TOTAL			2698

AGGREGATE BASE COURSE SCHEDULE				
STATION	STATION	OFFSET (LT/RT)	AGGREGATE BASE COURSE, TYPE B 6" (SQ YD)	AGGREGATE BASE COURSE, TYPE B 8" (SQ YD)
497+24	CE	RT	47	
498+02	FE	LT		47
498+09	CE	RT	56	
505+69	PE	LT	39	
TOTAL			142	47

CLASS D PATCHES SCHEDULE			
STATION	STATION	OFFSET (LT/RT)	CLASS D PATCHES, TYPE IV, 10 INCH (SQ YD)
195+61	195+74	LT & RT	61
200+23	200+39	LT & RT	62
TOTAL			124

TEMPORARY FENCE SCHEDULE			
STATION	STATION	OFFSET (LT/RT)	TEMPORARY FENCE (FOOT)
500+28	500+28	LT	25
500+28	503+85	LT	357
TOTAL			382

LANDSCAPING SCHEDULE								
STATION	STATION	OFFSET (LT/RT)	SEEDING, CLASS 2A (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	EROSION CONTROL BLANKET (SQ YD)	TEMPORARY EROSION CONTROL SEEDING (POUND)
493+03	499+85	LT	0.24	20.5	20.5	20.5	1147	22.8
493+14	497+14	RT	0.15	12.7	12.7	12.7	709	14.1
497+36	497+89	RT	0.02	1.3	1.3	1.3	75	1.5
498+21	499+89	RT	0.05	4.7	4.7	4.7	262	5.2
500+15	505+63	LT	0.18	15.6	15.6	15.6	871	17.3
505+76	506+96	LT	0.05	4.4	4.4	4.4	245	4.9
500+13	506+96	RT	0.24	21.1	21.1	21.1	1183	23.5
ROUNDED TOTAL			1.0	80	80	80	4493	178

TEMPORARY DITCH CHECKS SCHEDULE		
STATION	OFFSET (LT/RT)	TEMPORARY DITCH CHECKS (FOOT)
493+13	38' RT	10
493+13	30' LT	10
497+60	34' RT	10
498+34	32' LT	10
498+45	34' RT	10
499+76	64' LT	10
499+81	79' RT	10
500+22	79' RT	10
500+22	64' LT	10
505+28	32' RT	10
506+86	30' RT	10
506+86	31' LT	10
TOTAL		120

TREE ROOT PRUNING SCHEDULE		
STATION	OFFSET (LT/RT)	TREE ROOT PRUNING (EACH)
500+25	LT	1
500+75	LT	1
501+00	LT	1
501+25	LT	1
501+50	LT	1
501+75	LT	1
502+25	LT	1
502+50	LT	1
502+75	LT	1
503+00	LT	1
503+25	LT	1
503+50	LT	1
TOTAL		12

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PLOT DATE = 10/13/2017	DATE - 10/13/2017	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 47 AT THAYER ROAD SCHEDULE OF QUANTITIES	
SCALE: _____	SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RE: 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 19
CONTRACT NO. 62C34				ILLINOIS FED. AID PROJECT

THERMOPLASTIC PAVEMENT MARKING - LINE 4"		
YELLOW SKIP DASH - 10' DASH AND 30' SKIP		
STATION	STATION	LENGTH (FT)
491+90	492+41	20
507+67	508+10	20
DOUBLE YELLOW LINES		
STATION	STATION	LENGTH (FT)
492+41	493+13	144
493+13	498+43	2120
498+43	499+58	460
500+41	501+56	460
501+56	506+86	2120
506+86	507+67	162
WHITE EDGE LINES		
STATION	STATION	LENGTH (FT)
493+13	499+91	1419
500+13	506+86	1413
TOTAL		8338

THERMOPLASTIC PAVEMENT MARKING - LINE 6"		
WHITE DOTTED LINE - 2' LINE AND 6' SPACE		
STATION	STATION	LENGTH (FT)
496+63	498+43	46
501+56	503+36	46
WHITE TURN LANE LINES		
STATION	STATION	LENGTH (FT)
498+43	499+58	115
500+41	501+56	115
TOTAL		322

THERMOPLASTIC PAVEMENT MARKING - LINE 24"		
STOP BARS		
STATION		LENGTH (FT)
199+50	THAYER ROAD	14
200+50	THAYER ROAD	14
TOTAL		28

PAVEMENT MARKING REMOVAL-WATER BLASTING		
STAGE I: SKIP DASHES 10' LINE-30' SPACE		
STATION	STATION	AREA (SQ FT)
491+77	499+65	70
500+39	508+24	70
STAGE I: WHITE EDGE LINES		
STATION	STATION	AREA (SQ FT)
492+82	499+53	223.7
500+50	507+22	224
STAGE II: WHITE EDGE LINES		
STATION	STATION	AREA (SQ FT)
493+13	499+64	217
500+43	506+86	214.3
TOTAL		1019

THERMOPLASTIC PAVEMENT MARKING - LINE 12"		
YELLOW DIAGONAL LINES		
STATION	STATION	LENGTH (FT)
493+13	498+43	50
501+56	506+86	50
TOTAL		100

THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS			
STATION	OFFSET	SYMBOL	AREA (SQ FT)
498+53	RT	ONLY	20.8
498+77	RT	ARROW	15.6
501+46	LT	ONLY	20.8
501+22	LT	ARROW	15.6
TOTAL			73

TEMPORARY IMPACT ATTENUATORS SCHEDULE			
LOCATION STATION TO STATION	OFFSET (LT/RT)	TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 (EACH)	RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 (EACH)
492+00	RT	1	
496+90	RT	1	
498+25	RT	1	
499+50	RT	1	
500+50	RT	1	
508+00	RT	1	
492+00	LT		1
499+50	LT		1
500+50	LT		1
505+25	LT		1
506+00	LT		1
508+00	LT		1
TOTAL		6	6

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE			
STATION	STATION	SYMBOL	EACH
493+13	495+12	TWO WAY AMBER	12
495+12	497+45	ONE WAY AMBER	12
497+45	499+58	TWO WAY AMBER	12
500+41	502+53	TWO WAY AMBER	14
502+53	504+87	ONE WAY AMBER	12
504+87	506+86	TWO WAY AMBER	10
498+43	499+58	ONE WAY CRYSTAL	4
500+41	501+56	ONE WAY CRYSTAL	4
TOTAL			80

SHORT TERM PAVEMENT MARKING		
DOUBLE YELLOW LINES		
STATION	STATION	LENGTH (FT)
492+41	493+13	24
493+13	498+43	224
498+43	499+58	32
500+41	501+56	32
501+56	506+86	224
506+86	507+67	24

SHORT TERM PAVEMENT MARKING REMOVAL		
DOUBLE YELLOW LINES		
STATION	STATION	AREA (SQ FT)
492+41	493+13	8
493+13	498+43	75
498+43	499+58	11
500+41	501+56	11
501+56	506+86	75
506+86	507+67	8

WHITE EDGE LINES		
STATION	STATION	LENGTH (FT)
493+13	499+64	68
500+35	506+86	68

WHITE EDGE LINES		
STATION	STATION	AREA (SQ FT)
493+13	499+64	23
500+35	506+86	23

REPLACEMENT REFLECTOR SCHEDULE			
STATION	STATION	SYMBOL	EACH
491+90	493+13	TWO WAY AMBER	3
506+86	508+10	TWO WAY AMBER	3
TOTAL			6

WHITE TURN LANE LINES		
STATION	STATION	LENGTH (FT)
498+43	499+58	16
500+41	501+56	16

WHITE TURN LANE LINES		
STATION	STATION	AREA (SQ FT)
498+43	499+58	5
500+41	501+56	5

WHITE SHOULDER DIAGONAL LINES 8"		
STATION	STATION	LENGTH (FT)
493+13	499+64	80
500+35	506+86	80

WHITE SHOULDER DIAGONAL LINES 8"		
STATION	STATION	AREA (SQ FT)
493+13	499+64	5
500+35	506+86	5

WHITE SOLID LINES (STOP BARS) 24"	
LOCATION	LENGTH (FT)
THAYER RD. (EAST)	84
THAYER RD. (WEST)	84
X 4 APPLICATIONS	
TOTAL	4224

WHITE SOLID LINES (STOP BARS) 24"	
LOCATION	AREA (SQ FT)
THAYER RD. (EAST)	28
THAYER RD. (WEST)	28
TOTAL	310

TEMPORARY CONCRETE BARRIER SCHEDULE			
STATION	TEMPORARY CONCRETE BARRIER (FOOT)	RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)	BARRIER WALL REFLECTORS, TYPE C (EACH)
STAGE I	1325		106
STAGE II	75	1325	59
TOTAL	1400	1325	165

TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE			
STATION	STATION	SYMBOL	EACH
STAGE I			
491+77	499+53	TWO WAY AMBER	42
500+50	508+24	TWO WAY AMBER	42
STAGE II			
491+76	499+64	TWO WAY AMBER	42
500+53	508+24	TWO WAY AMBER	42
TOTAL			168

GATES SCHEDULE	
STATION	GATE REMOVAL (EACH)
497+25	1
498+00	1
TOTAL	2

NOTE: ALL TEMPORARY CONCRETE BARRIER IS TO BE CONTINUOUSLY PINNED.

FILE NAME = Q:\Engineering\Live\Projects\13034 IDOT DUR Chest\NO 1\CAADD\CADD Sheets\C.v1\162C34-Sht-SchedQuant.dgn



USER NAME = johnn	DESIGNED - JMT	REVISED - _____
PLOT SCALE = 2.0000' / in.	DRAWN - JN	REVISED - _____
PLOT DATE = 10/13/2017	CHECKED - TGM	REVISED - _____
	DATE - 10/13/2017	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT THAYER ROAD SCHEDULE OF QUANTITIES	
SCALE: _____	SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 20
CONTRACT NO. 62C34				ILLINOIS FED. AID PROJECT

TEMPORARY PAVEMENT MARKING SCHEDULE				
STAGE I:		PAVEMENT MARKING TAPE TYPE IV, 4 INCH (FT)	PAVEMENT MARKING TAPE TYPE IV, 24 INCH (FT)	TEMPORARY PAVEMENT MARKING REMOVAL (SQ FT)
STATION	STATION			
491+77	499+65	788		262.7
492+82	499+53	530		176.7
500+39	508+24	785		261.7
500+50	507+22	672		224.0
200+09	201+40	142		47.3
200+09	201+40	141		47.0
DOUBLE YELLOW LINES				
STATION	STATION			
491+77	499+53	1552		517.3
500+50	508+24	1548		516.0
STAGE II:				
WHITE EDGE LINES				
STATION	STATION			
491+76	499+64	788		262.7
491+76	499+64	530		176.7
500+53	508+24	771		257.0
500+53	508+24	771		257.0
199+25	199+88	73		24.3
199+25	199+88	78		26.0
200+11	200+79	77		25.7
200+11	200+79	83		27.7
DOUBLE YELLOW LINES				
STATION	STATION			
491+76	499+53	1554		518.0
500+54	508+24	1540		513.3
STOP BARS				
LOCATION				
STAGE I				
THAYER RD. (EAST)			11	22
THAYER RD. (WEST)			14	28
STAGE II				
THAYER RD. (EAST)			12	24
THAYER RD. (WEST)			14	28
BEFORE MILLING				
THAYER RD. (EAST)			19	38
THAYER RD. (WEST)			19	38
TOTAL		12,423	89	4319

SUMMARY OF EARTHWORK						
LOCATION	CONSTRUCTION STAGE	EARTH EXCAVATION 20200100 (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE(-)	TOPSOIL EXCAVATION AND PLACEMENT
IL RTE. 47 AT THAYER RD.	STAGE I	970	825	70	755	425
	STAGE II	815	695	100	595	435
		1785			1350	860

RELOCATE SIGN PANEL ASSEMBLY			
STATION	OFFSET (LT/RT)	SIZE (IN)	TYPE
199+49	LT	24x36	WEIGHT LIMIT SIGN
TOTAL		1	

FILE NAME = D:\Engineering\LiveProjects\13034 IDOT DUR Chest\NO 1\CAADD\CADD Sheets\C.v1\162C34-Sht-SchedQuant.dgn



USER NAME = johnn	DESIGNED - JMT	REVISED - _____
DRAWN - JN	REVISOR - _____	
PLOT SCALE = 2.0000' / 1" =	CHECKED - TGM	REVISED - _____
PLOT DATE = 10/13/2017	DATE - 10/13/2017	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
SCHEDULE OF QUANTITIES**

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	21
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

FILE NAME = D:\62C34\11-Schedule 1.dgn
 \$SYSPRINTER.NAME\$

\$PLTDRAWL\$

\$PENTRBL\$

REFLECTOR AND TEMPORARY PAVEMENT MARKER SCHEDULE

STATION	STATION	DISTANCE	PAVEMENT MARKING TAPE TYPE IV 4" (FOOT)	PAVEMENT MARKING TAPE TYPE IV 24" (FOOT)	TEMPORARY CONCRETE BARRIER (FOOT)	RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER (EACH)	REPLACEMENT REFLECTOR (EACH)	BARRIER WALL REFLECTORS TYPE C (EACH)	TEMPORARY PAVEMENT REMOVAL (SQ FT)	PINNING TEMPORARY CONCRETE BARRIER (EACH)
IL 47											
489+10	TO 492+45	335						8			
492+45	TO 507+50	1505									
507+50	TO 508+70	120						4			
IL 47											
491+21	TO 498+71	750	750							248	
491+21	TO 499+46	825	1650				42			545	
491+21	TO 500+00	879	879							291	
500+11	TO 508+70	859	859							284	
500+11	TO 508+70	859	1718				44			567	
500+00	TO 508+70	870	870							288	
491+05	TO 507+99	1700			1700				136		
497+80	TO 502+31	450									108
O' BRIEN STOP BAR		28		28							
WILKE ROAD											
307+00	TO 308+00	173	173							58	
307+00	TO 308+75	207	414							137	
307+00	TO 309+85	285	285							95	
IL 47											
491+32	TO 498+00	668	668							221	
491+32	TO 498+80	748	1496				38			494	
491+32	TO 500+00	868	868							287	
499+72	TO 507+90	818	818							270	
499+45	TO 507+90	845	1690				44			558	
500+00	TO 507+90	790	790							261	
492+37	TO 507+37	1500				1500			120		
499+72	TO 506+55	687.5			487.5	200			56		
499+72	TO 504+27	450									108
492+37	TO 507+37	1500									360
O' BRIEN											
197+40	TO 498+00	298	298							99	
197+40	TO 200+46	206	412							136	
197+40	TO 499+72	273	273							91	
198+67	TO 499+72	150			150				12		36
STOP BAR		25		25							
IL 47											
489+10	TO 499+25	1015	1015							335	
489+10	TO 499+25	1015	2030				52			670	
489+10	TO 500+00	1090	1090							360	
500+72	TO 508+50	778	778							257	
500+72	TO 508+50	778	1556				40			514	
500+00	TO 508+50	850	850							281	
O' BRIEN											
197+40	TO 199+45	205	205								
197+40	TO 199+45	205	410								
STOP BAR		12		12							
TOTAL			22845	65	2337.5	1700	260	12	324	7347	612

LANDSCAPING SCHEDULE 1

STATION	STATION	OFFSET (LT/RT)	AREA (SQ FT)	TOPSOIL EXCAVATION AND PLACEMENT (CU YD)	SEEDING CLASS 2A (ACRE)	SEEDING CLASS 4 (ACRE)	NITROGEN FERTILIZER (POUND)	PHOSPHORUS FERTILIZER (POUND)	POTASSIUM FERTILIZER (POUND)	EROSION CONTROL BLANKET (SQ YD)
492+45	494+46	LT	5228	97	0.12		10.8	10.8	10.8	581
494+92	498+83	LT	14375	267	0.33		29.7	29.7	29.7	1598
197+40	197+66	RT	436	9	0.01		0.9	0.9	0.9	49
197+40	198+43	LT	7841	146	0.18		16.2	16.2	16.2	872
500+19	507+50	LT	27443	509	0.19	0.44	56.7	56.7	56.7	3050
492+45	499+82	RT	33106	614	0.2	0.56	68.4	68.4	68.4	3679
200+54	202+25	RT	5228	97	0.12		10.8	10.8	10.8	581
200+25	507+50	RT	22216	412	0.28	0.23	45.9	45.9	45.9	2469
			13940	259	0.32		28.8	28.8	28.8	1549
TOTAL			129813	2410	1.8	1.3	269	269	269	14428

LANDSCAPING SCHEDULE 2

STATION	STATION	OFFSET (LT/RT)	AREA (SQ FT)	TEMPORARY EROSION CONTROL SEEDING (POUND)	TEMPORARY EROSION CONTROL BLANKET (SQ YD)
492+45	494+46	LT	5228	65	581
494+92	498+83	LT	14375	170	1598
197+40	197+66	RT	436	10	49
197+40	198+43	LT	7841	95	872
500+19	507+50	LT	27443	320	3050
492+45	499+82	RT	33106	385	3679
200+54	202+25	RT	5228	65	581
200+25	507+50	RT	22216	260	2469
			13940	165	1549
TOTAL			129813	1535	14428

TEMPORARY DITCH CHECKS

STATION	OFFSET (LT/RT)	TEMPORARY DITCH CHECKS (FOOT)	STATION	OFFSET (LT/RT)	TEMPORARY DITCH CHECKS (FOOT)
202+25	LT	10.0	500+17	RT	10.0
202+25	RT	10.0	500+00	LT	10.0
308+81	RT	10.0	501+60	RT	10.0
309+55	RT	10.0	503+40	LT	10.0
492+44	RT	10.0	503+60	RT	10.0
492+47	LT	10.0	505+44	LT	10.0
494+04	LT	10.0	505+54	RT	10.0
494+50	RT	10.0	507+50	LT	10.0
495+98	LT	10.0	507+50	RT	10.0
496+58	RT	10.0	510+00	LT	10.0
498+06	LT	10.0	510+00	RT	10.0
498+53	LT	10.0			
498+57	RT	10.0			
499+67	LT	10.0			
TOTAL					250.0

TEMPORARY PAVEMENT AND PAVEMENT REMOVAL SCHEDULE

STATION	STATION	OFFSET	DISTANCE	TEMPORARY PAVEMENT (SQ YD)	SUBBASE GRANULAR MATERIAL, TYPE B 4" (SQ YD)	PAVEMENT REMOVAL (SQ YD)
IL 47						
491+05	TO 492+20	RT	115	88	118	88
496+77	TO 498+67	LT	190	53	112	53
499+21	TO 499+51	LT	30	45	45	45
500+11	TO 502+80	LT	269	114	203	114
510+28	TO 511+60	RT	132	88	108	88
WILKE ROAD						
307+00	TO 308+44	RT	144	124	176	124
IL 47						
490+36	TO 500+36	RT	1000	938	1006	938
501+07	TO 509+62		855	1032	1032	1032
507+50	TO 508+10	LT	60	53	53	53
TOTAL				2535	2853	2535

CURB AND GUTTER REMOVAL SCHEDULE

STATION	STATION	OFFSET (LT/RT)	COMBINATION CURB AND GUTTER REMOVAL (FOOT)
CE	494+75	LT	71
498+73	198+65	LT/RT	80
198+66	199+75	LT	114
TOTAL			265

TRENCH BACKFILL SCHEDULE

LOCATION	TRENCH BACKFILL (CU YD)
STM SEWER CB TO CULVERT (SWQ)	8
STM SEWER CULVERT TO FES (NEQ)	19
TOTAL	27



USER NAME = jpong
 DESIGNED -
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 CHECKED -
 DATE -
 PLOT SCALE = 48.0000' / in.
 PLOT DATE = 10/19/2017

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
 SCHEDULE OF QUANTITIES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 326 104-N McHENRY 106 22
 CONTRACT NO. 62C34
 ILLINOIS FED. AID PROJECT

SIGN SCHEDULE 1												
STATION	OFFSET (LT/RT)	REMOVE	NEW	RELOCATE	SIZE (IN)	TYPE	SIGN PANEL -TYPE 1 (SQ FT)	REMOVE SIGN PANEL ASSEMBLY -TYPE A (EACH)	REMOVE SIGN PANEL ASSEMBLY -TYPE B (EACH)	RELOCATE SIGN PANEL ASSEMBLY -TYPE A (EACH)	RELOCATE SIGN PANEL ASSEMBLY -TYPE B (EACH)	TELESCOPING SIGN SUPPORT (FOOT)
300+71	LT		X		24" X 24"	W14-2	4.00					15.0
300+71	RT		X		24" X 24"	W14-2	4.00					15.0
307+50	-		X		36" X 36"	W14-1	9.00					15.0
307+41	LT		X		36" X 36"	W14-1	9.00					15.0
307+41	RT		X		36" X 36"	W14-1	9.00					15.0
303+84	RT	X			30" X 30"	W3-1		1				
308+46	LT	X			24" X 30"	R12-2		1				
308+46	LT	X			12" X 12"	OVERWEIGHT PERMIT REQUIRED						
309+09	RT	X			36" X 36"	R1-1			1			
309+09	RT	X			30" X 18"	W4-I100						
492+44	RT	X	X		36" X 18"	I1-I106	4.50	1				15.0
492+44	RT	X	X		21" X 15"	M6-1L	2.20					
494+18	LT		X		36" X 36"	R1-1	9.00					15.0
494+18	LT		X		30" X 18"	W4-I100	3.75					
496+00	RT			X	21" X 15"	M2-1					1	15.0
496+00	RT			X	24" X 24"	M1-6						
496+00	RT			X	VARIES X 9"	W17-I100						
496+00	RT			X	21" X 15"	M5-1L						
496+00	LT	X	X		36" X 18"	I1-I106	4.50	1				15.0
496+00	LT	X	X		21" X 15"	M6-1R	2.20					
497+10	LT		X		30" X 36"	R2-1	7.50					15.0
498+00	LT	X	X		24" X 12"	M3-3	2.00	1				15.0
498+00	LT	X	X		24" X 24"	M1-I100	4.00					
499+31	RT			X	24" X 24"	M1-6				1		15.0
499+31	RT			X	VARIES X 9"	W17-I100						
499+31	RT			X	21" X 15"	M6-1L						
501+62	LT			X	24" X 24"	M1-6				1		15.0
501+62	LT			X	VARIES X 9"	W17-I100						
501+62	LT			X	21" X 15"	M6-1R						
502+80	RT	X	X		24" X 12"	M3-1	2.00	1				15.0
502+80	RT	X	X		24" X 24"	M1-I100	4.00					
504+00	LT			X	21" X 15"	M2-1					1	15.0
504+00	LT			X	24" X 24"	M1-6						
504+00	LT			X	VARIES X 9"	W17-I100						15.0
504+00	LT			X	21" X 15"	M5-1R						
504+00	RT		X		30" X 36"	R2-1	7.50					15.0

SIGN SCHEDULE 2												
STATION	OFFSET (LT/RT)	REMOVE	NEW	RELOCATE	SIZE (IN)	TYPE	SIGN PANEL -TYPE 1 (SQ FT)	REMOVE SIGN PANEL ASSEMBLY -TYPE A (EACH)	REMOVE SIGN PANEL ASSEMBLY -TYPE B (EACH)	RELOCATE SIGN PANEL ASSEMBLY -TYPE A (EACH)	RELOCATE SIGN PANEL ASSEMBLY -TYPE B (EACH)	TELESCOPING SIGN SUPPORT (FOOT)
199+32	RT		X		24" X 24"	M1-I100	4.00					15.0
199+32	RT		X		21" X 15"	M6-4	2.20					
199+32	RT	X	X		36" X 36"	R1-1	9.00		1			15.0
199+32	RT	X	X		30" X 18"	W4-I100	3.75					
199+34	LT		X		24" X 24"	M1-I100	4.00					15.0
199+34	LT		X		21" X 15"	M6-4	2.20					
199+34	LT	X	X		36" X 36"	R1-1	9.00		1			15.0
199+34	LT	X	X		30" X 18"	W4-I100	3.75					
199+56	LT			X	VARIES X 12"	D3-1				1		15.0
199+56	LT			X	VARIES X 12"	D3-1						
199+56	LT			X	VARIES X 12"	D3-1						
199+74	RT			X	24" X 12"	M4-6				1		15.0
199+74	RT			X	24" X 24"	M1-6						
199+74	RT			X	VARIES X 9"	W17-I100						
199+74	RT	X	X		24" X 24"	M1-I100	4.00	1				15.0
199+74	RT	X	X		21" X 15"	M6-4	2.20					
199+74	RT	X	X		36" X 36"	R1-1	9.00		1			15.0
199+74	RT	X	X		30" X 18"	W4-I100	3.75					
199+74	RT	X			36" X 36"	R5-1						-
199+74	RT		X		36" X 36"	R5-1	9.00					15.0
199+74	RT		X		30" X 36"	R3-5R	7.50					
200+60	RT	X	X		36" X 36"	R1-1	9.00		1			15.0
200+60	RT	X	X		30" X 18"	W4-I100	3.75					
200+60	RT	X	X		24" X 24"	M1-I100	4.00		1			15.0
200+60	RT	X	X		21" X 15"	M6-4	2.20					
200+70	LT		X		24" X 24"	M1-I100	4.00					15.0
200+70	LT		X		21" X 15"	M6-4	2.20					
200+70	LT	X	X		36" X 36"	R1-1	9.00		1			15.0
200+70	LT	X	X		30" X 18"	W4-I100	3.75					
200+81	RT			X	24" X 30"	R12-2				1		15.0
200+81	RT			X	12" X 12"	OVERWEIGHT PERMIT REQUIRED						
201+15	LT			X	36" X 36"	R1-1	9.00					15.0
201+15	LT			X	30" X 18"	W4-I100	3.75					
201+15	LT			X	24" X 24"	M1-I100	4.00					15.0
201+15	LT			X	21" X 15"	M6-4	2.20					
201+15	LT			X	36" X 36"	R5-1	9.00					15.0
201+15	LT			X	30" X 36"	R3-5R	7.50					
TOTAL							146.70	8	6	5	2	495.0

ISLAND SCHEDULE									
STATION	STATION	OFFSET (LT/RT)	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID (EACH)	REMOVING INLETS (EACH)	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06 (FOOT)	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 (FOOT)	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 (VARIABLE WIDTH GUTTER FLAG) (FOOT)	ISLAND PAVEMENT (6") (SQ YD)	ISLAND REMOVAL (SQ FT)
499+34		LT							402
499+38		LT	1						
499+38		LT		1					
499+22		LT						53.7	
500+74		RT						8.9	
499+04	499+41	LT				35			
500+67	500+83	RT				16.7			
499+04	499+13	LT			23.1				
500+78	500+83	RT			6.3				
499+13	499+39	LT				44.1			
500+70	500+78	RT				16.7			
TOTAL			1	1	30	52	61	63	402

GUARDRAIL REMOVAL			
STATION	STATION	OFFSET (LT/RT)	GUARDRAIL REMOVAL (FOOT)
497+19	500+55	RT	363.5
499+59	502+73	LT	328.5
TOTAL			692.0

AGGREGATE SHOULDERS			
STATION	STATION	OFFSET (LT/RT)	AGGREGATE SHOULDERS TYPE B 6" (SQ YD)
197+30	197+40	LT	6.7
197+30	197+40	RT	6.7
202+25	202+35	LT	6.7
202+25	202+35	RT	6.7
492+35	492+45	LT	9.0
492+35	492+45	RT	9.0
507+50	507+60	LT	9.0
507+50	507+60	RT	9.0
510+26	512+95	RT	265.5
TOTAL			328.3

PERIMETER EROSION BARRIER				
STATION	STATION	OFFSET (LT/RT)	PERIMETER EROSION BARRIER (FOOT)	
197+07	197+65	RT	58.0	
197+91	198+54	RT	63.0	
201+41	202+10	LT	69.0	
306+88	308+28	LT	140.0	
306+88	309+18	RT	230.0	
309+25	310+55	RT	130.0	
495+00	498+53	LT	353.0	
501+45	505+00	RT	355.0	
505+00	507+50	RT	250.0	
509+50	510+70	RT	120.0	
TOTAL			1768.0	

STONE RIP RAP, CLASS A4		
STATION	OFFSET (LT/RT)	STONE RIP RAP CLASS A4 (SQ YD)
500+31	US CULVERT	134.4
499+59	DS CULVERT	136.4
TOTAL		271

FILTER FABRIC		
STATION	OFFSET (LT/RT)	FILTER FABRIC (SQ YD)
500+31	US CULVERT	134.4
499+59	DS CULVERT	136.4
TOTAL		271.0

FILE NAME = D:\62C34\Int-Schedule 2.dgn
\$PLOTTERNAME\$



USER NAME = jpong
DESIGNED -
DRAWN -
PLOT SCALE = 48.0000' / in.
CHECKED -
PLOT DATE = 11/7/2017

REVISOR -
REVISOR -
REVISOR -
REVISOR -
DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
SCHEDULE OF QUANTITIES

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
326 104-N MCHENRY 106 23
CONTRACT NO. 62C34
ILLINOIS FED. AID PROJECT

PLOT.DWG

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		SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)	TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)	TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)	TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE SKIP-DASH)	TEMPORARY PAVEMENT MARKING - LINE 8"	TEMPORARY PAVEMENT MARKING - LINE 12" (YELLOW)	TEMPORARY PAVEMENT MARKING - LINE 12" (WHITE)	TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SKIP-DASH)	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	
STATION	STATION	FOOT	FOOT	SQ FT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	
IL 47		350	128	43			2800								1400				
492+45	TO 495+95	180	82	28			1440		90			58			720		45		
495+95	TO 497+75	150	287	95	72.8		600	300					36.4		300	150			
497+75	TO 499+25	710					1420							710					
492+45	TO 499+55	638					1276							638					
492+45	TO 498+83	150	287	95	72.8		600	300	90				36.4		300	150			
500+70	TO 502+20	180	82	28			1440					40			720		45		
502+20	TO 504+00	350	128	43			2800					46			1400				
504+00	TO 507+50	576					1152							576					
501+74	TO 507+50	700					1400							700					
500+50	TO 507+50																		
O' BRIEN		193	36	12			772								386				
197+40	TO 199+33	190					380							190					
197+40	TO 498+83	285					570							285					
197+40	TO 500+50								445		293.6	60						223	
ISLAND																			
VANDERKARR		164	30	10			656								328				
200+61	TO 202+25	252					504							252					
499+55	TO 202+25	208					416							208					
501+74	TO 202+25								350		251.4	60						175	
ISLAND																			
TOTAL		4367	2120	708	145.6	7118	11108	600	180	795	195	545	120	72.8	3559	5554	300	90	398

		78000600		78000650	X0327980	78100100	78200020	78300200	
		THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW)	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	PAVEMENT MARKING REMOVAL - WATER BLASTING	RAISED REFLECTIVE PAVEMENT MARKER	CURB REFLECTOR	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	
STATION	STATION	FOOT	FOOT	FOOT	SQ FT	EACH	EACH	EACH	
IL 47		350	29		491	18		9	
492+45	TO 495+95	180	26		287	15		5	
495+95	TO 497+75	150			211	12		4	
497+75	TO 499+25	710			235				
492+45	TO 499+55	638			211				
492+45	TO 498+83	150			211	12		4	
500+70	TO 502+20	180	20		281	15		5	
502+20	TO 504+00	350	23		485	18		9	
504+00	TO 507+50	576			191				
501+74	TO 507+50	700			231				
500+50	TO 507+50								
O' BRIEN		193			128	10			
197+40	TO 199+33	190			63				
197+40	TO 498+83	285			95				
197+40	TO 500+50			147	30	357			
ISLAND							15		
VANDERKARR		164			109	10			
200+61	TO 202+25	252			84				
499+55	TO 202+25	208			69				
501+74	TO 202+25			126	30	304			
ISLAND							8		
TOTAL		4367	98	273	60	4043	110	23	36

SUMMARY OF EARTHWORK							
LOCATION	CONSTRUCTION STAGE	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT (CU YD)	EARTHWORK BALANCE (+) or SHORTAGE (-)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	FURNISHED EXCAVATION (CU YD)
IL RTE. 47	STAGE 1	36.0	30.0	27.0	4.0	223.0	0.0
AT O' BRIEN AND VANDERKAR RDS.	STAGE 2	207.0	176.0	1577.0	1401.0	955.0	1401.0
WILKE ROAD	FINAL	3187.0	2709.0	1397.0	1312.0	720.0	0.0
	FINAL	176.0	149.0	260.0	106.0	76.0	111.0
		3606.0	3064.0	3261.0	2823.0	1974.0	1512.0

TEMPORARY FENCE			
STATION	STATION	OFFSET (LT/RT)	TEMPORARY FENCE (FOOT)
201+45	202+00	LT	68.5
202+00	202+25	LT	40.0
501+50	504+52.00	RT	302.0
TOTAL			411.0

IMPACT ATTENUATORS SCHEDULE			
LOCATION STATION	OFFSET (LT/RT)	IMPACT ATTENUATORS RELOCATE (FULLY REDIRECTIVE, TEST LEVEL 3 (EACH))	IMPACT ATTENUATORS TEMPORARY (FULLY REDIRECTIVE, TEST LEVEL 3 (EACH))
STAGE I			
491+00.00	RT		1
508+00.00	RT		1
STAGE II			
492+37.50	RT	1	
506+55.00	LT		1
507+37.00	RT	1	
198+67.00	LT		1
TOTAL		2	4



USER NAME = jpong	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
SCHEDULE OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	24
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

ASHPALT AND PAVEMENT REMOVAL SCHEDULE						
STATION	STATION	OFFSET (LT/RT)	HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4" (SQ YD)	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT (SQ YD)	PAVEMENT REMOVAL (SQ YD)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)
IL 47						
492+45	493+00		154.9	3.6		
493+00	494+00		311.9			
494+00	495+00		317.0			277.3
495+00	496+00		312.6			
496+00	497+00		297.0			
497+00	498+00		290.9			
498+00	499+00		290.1			
499+00	500+00		288.4			
500+00	501+00		288.4			
501+00	502+00		287.9			
502+00	503+00		298.8			
503+00	504+00		310.1			
504+00	505+00		311.3			
505+00	506+00		312.1			
506+00	507+00		310.7			
507+00	507+50		154.7	3.6		
HMA BASE COURSE 9 3/4"						
492+45	500+00	RT	397.1			
500+00	507+50	RT	548.3			
O' BRIAN ROAD						
197+40	198+00		163.8	3.2		180.0
198+00	198+66		180.9			
198+66	199+00		82.4			
199+00	199+72		173.6			
INTERSECTION (TRIANGLE SHAPE)						
SW CORNER (RT TURN LANE)			369.9			
NW CORNER @ IL 47			42.8			
VANDERKARR ROAD						
RETURNS AND THRU LANES TO 201+00			285.8			
201+00	202+00		230.7			
202+00	202+25		59.3	2.9		
WILKE ROAD						
307+10	310+63				694.7	
TOTAL			7098.0	14.0	695.0	458.0

HOT-MIX ASPHALT BASE COURSE SCHEDULE							
STATION	STATION	OFFSET (LT/RT)	HOT-MIX ASPHALT BASE COURSE 7 1/4" (SQ YD)	HOT-MIX ASPHALT WIDENING 7 1/4" (SQ YD)	HOT-MIX ASPHALT BASE COURSE 9 3/4" (SQ YD)	HOT-MIX ASPHALT BASE COURSE WIDENING 9 3/4" (SQ YD)	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)
492+45	497+92	LT		243			243
497+92	498+94	LT	195				195
492+45	496+90	RT	387				437
494+45	496+90	RT				77	77
496+90	499+32.6	RT				167	167
499+32.6	500+36	RT			153		153
500+41	503+75	LT		156			156
503+75	507+50	LT	532				574
500+65	502+02.8	RT			287		287
502+02.8	507+50	RT				263	263
198+00	198+40	LT		14			14
198+40	200+16	LT	273				273
197+49	198+04	RT		17			17
198+04	198+66	RT	63				63
198+66	198+69	RT		2			2
200+91	201+20	LT	47				47
201+20	201+52	LT		7			7
200+44	201+69	RT	207				207
201+69	202+00	RT		11			11
307+10	307+40	-	120				127
TOTAL			1,824	450	440	507	3,320

HMA SHOULDER BASE COURSE SCHEDULE				
STATION	STATION	OFFSET (LT/RT)	HOT-MIX ASPHALT BASE COURSE 5 1/2" (SQ YD)	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)
492+45	497+92	LT	468	529
497+92	197+95	LT/RT	139	161
197+40	197+68	RT	32	37
197+40	500+50	LT	186	217
500+50	503+75	LT	200	236
496+90	499+55	RT	234	263
499+55	202+25	RT	164	191
202+25	501+74	LT/RT	131	153
501+74	507+50	RT	513	577
TOTAL			2,068	2,364

COMMERCIAL ENTRANCE PAVEMENT SCHEDULE					
STATION	STATION	OFFSET (LT/RT)	AGGREGATE BASE COURSE TYPE B, 6" (SQ YD)	HOT-MIX ASPHALT BASE COURSE 8" (SQ YD)	HMA SURFACE COURSE MIX "D" N50, (TON)
494+05	495+21	LT	146	146	17
197+49	198+51	RT	178	178	20
TOTAL			324	324	37

HOT-MIX ASPHALT PAVEMENT SCHEDULE						
LOCATION	STATION	STATION	OFFSET (LT/RT)	POLYMERIZED LEVELING BINDER (MACHINE METHOD) IL-4.75, N50 (TON)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "E", N70 (TON)	
IL 47 MAINLINE	492+45	507+50	-	240.8	561.9	
IL 47 MAINLINE	492+45	496+90	RT	19.5	45.4	
IL 47 MAINLINE	503+75	507+50	LT	22.5	52.4	
IL 47 SHOULDER	492+45	497+92	LT	19.7	45.9	
IL 47 SHOULDER	496+90	499+55	RT	9.8	22.9	
IL 47 SHOULDER	500+50	503+75	LT	8.4	19.6	
IL 47 SHOULDER	501+74	507+50	RT	21.6	50.3	
O' BRIEN MAINLINE	197+40	199+78	-	55.9	130.4	
O' BRIEN SHOULDER	497+92	197+95	LT/RT	5.8	13.6	
O' BRIEN SHOULDER	197+40	197+68	RT	1.4	3.2	
O' BRIEN SHOULDER	197+40	500+50	LT	7.8	18.2	
VANDERKARR MAINLINE	200+27	202+25	-	46.3	108.0	
VANDERKARR SHOULDER	499+55	202+25	RT	6.9	16.1	
VANDERKARR SHOULDER	202+25	501+74	LT/RT	5.5	12.9	
WILKE MAINLINE	307+10	307+40	-	5.0	11.8	
TOTAL				477	1113	

BITUMINOUS MATERIALS			
LIFT	STATION	STATION	BITUMINOUS MATERIALS (TACK COAT) (POUND)
LEVEL BINDER	492+45.00	507+50.00	5108
SURFACE	492+45.00	507+50.00	2554
TOTAL			7662

CLASS D PATCHES					
STATION	STATION	OFFSET (LT/RT)	CLASS D PATCHES TYPE III, 18 INCH (SQ YD)	CLASS D PATCHES TYPE IV, 18 INCH (SQ YD)	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)
200+94	201+02	LT + RT	18		18
499+20	499+80	LT		57	57
499+66	500+41	LT + RT		265	265
500+20	501+03	RT		61	61
TOTAL			18	383	401

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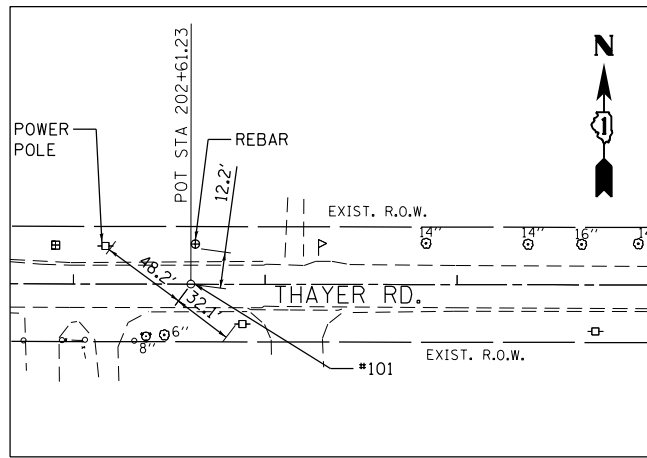
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
SCHEDULE OF QUANTITIES

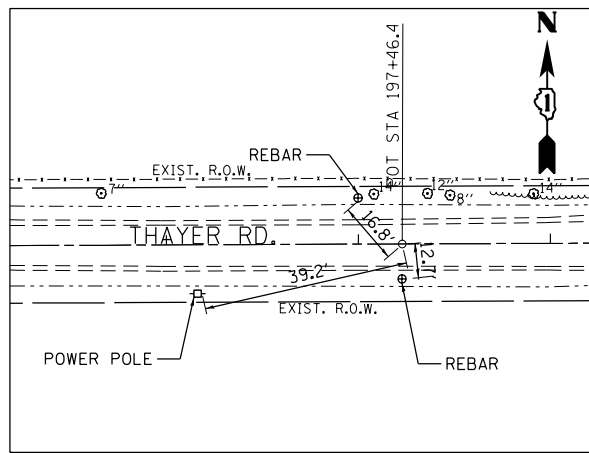
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	24A
CONTRACT NO. 62C34			ILLINOIS FED. AID PROJECT	



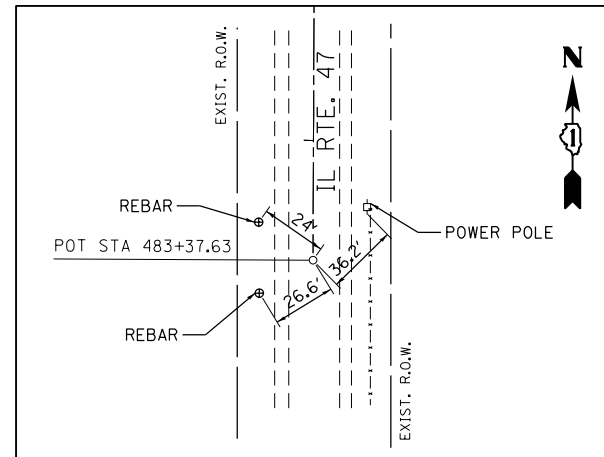
**CENTERLINE TIE #101
THAYER (EAST)**

MAG NAIL
STA. 202+61.23 THAYER RD.
N 2093606.18
E 956213.00
ELEV. 877.90



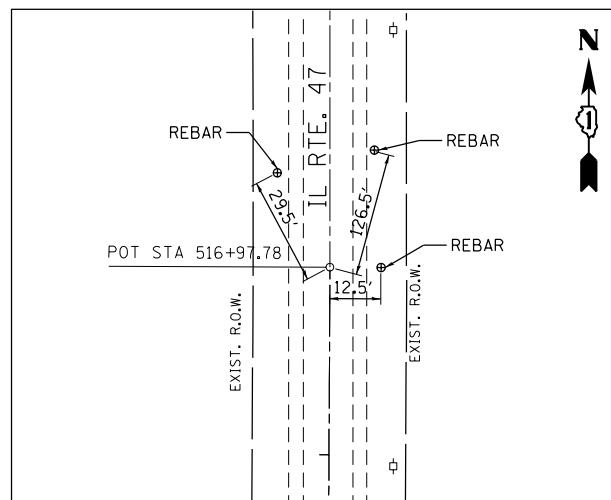
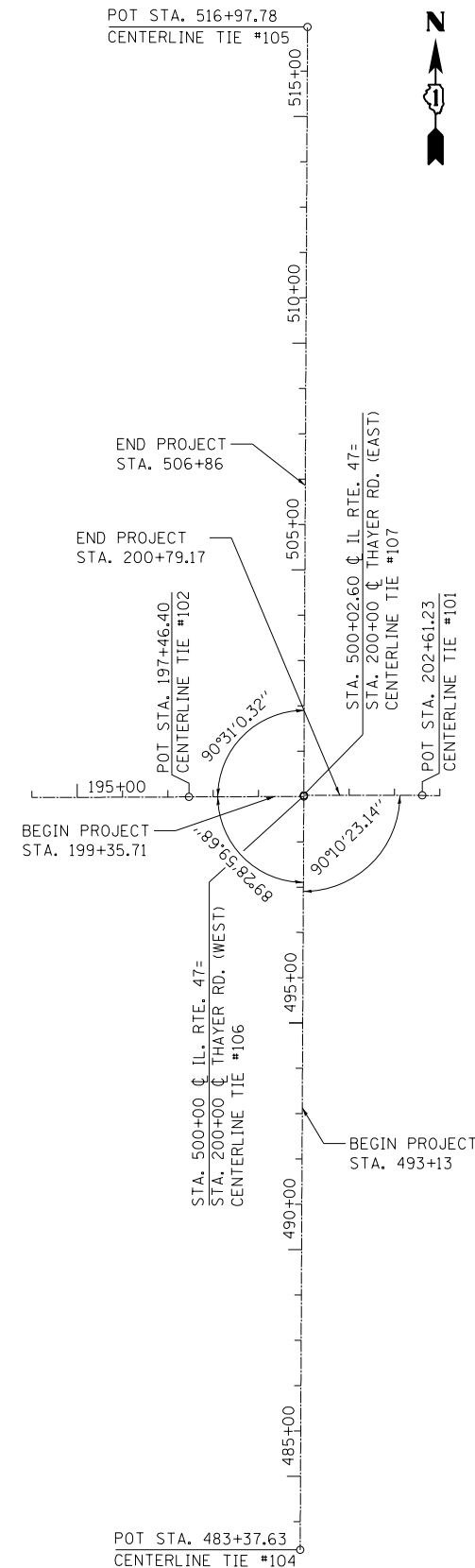
**CENTERLINE TIE #102
THAYER (WEST)**

MAG NAIL
STA. 197+46.40 \oslash THAYER RD. (WEST)
N 2093602.99
E 955697.95
ELEV. 876.59



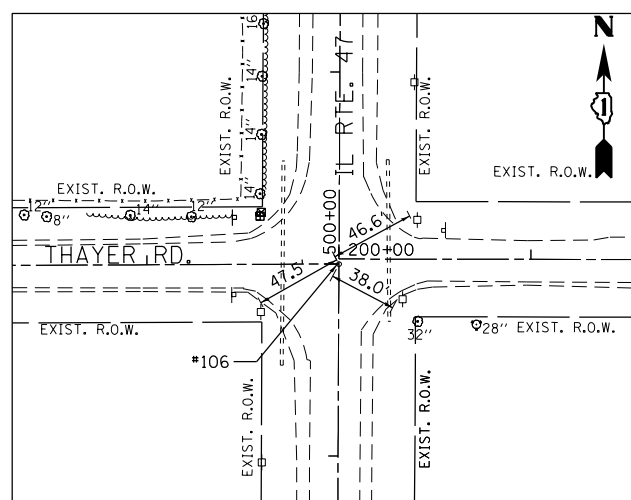
**CENTERLINE TIE #104
IL RTE. 47**

MAG NAIL
STA. 483+37.63 IL. RTE. 47
N 2091941.64
E 955943.60
ELEV. 874.41



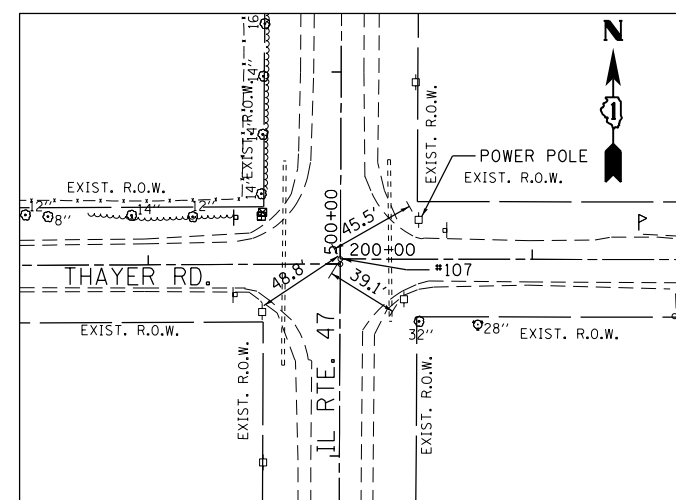
**CENTERLINE TIE #105
IL RTE. 47**

MAG NAIL
STA. 516+97.78 IL. RTE. 47
N 2095301.78
E 955959.73
ELEV. 884.24



**CENTERLINE TIE #106
THAYER (WEST)**

MAG NAIL
STA. 200+00 \oslash THAYER RD. (WEST)=
STA. 500+00 \oslash IL RTE. 47
N 2093604.11
E 955951.54
ELEV. 878.03



**CENTERLINE TIE #107
THAYER (EAST)**

MAG NAIL
STA. 200+00 \oslash THAYER RD. (EAST)=
STA. 500+02.60 \oslash IL RTE. 47
N 2093606.6
E 955951.57
ELEV. 878.05

BENCHMARKS:
POT STA. 483+37.63
CENTERLINE TIE #104
BM #1 - TOP OF R.O.W. MONUMENT IN NORTHWEST
CORNER OF IL RTE. 47 AND THAYER RD.
ELEVATION 878.71
BM #2 - "□" CUT IN BRIDGE WALL IN SOUTHEAST CORNER
OF BRIDGE ON THAYER RD. \pm 950' WEST OF IL RTE. 47.
ELEVATION 847.32

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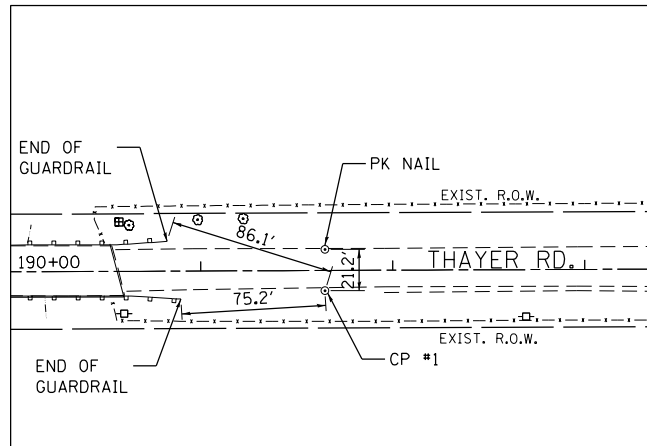
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PLOT DATE = 10/13/2017	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
ALIGNMENT, TIES AND BENCHMARKS - I**

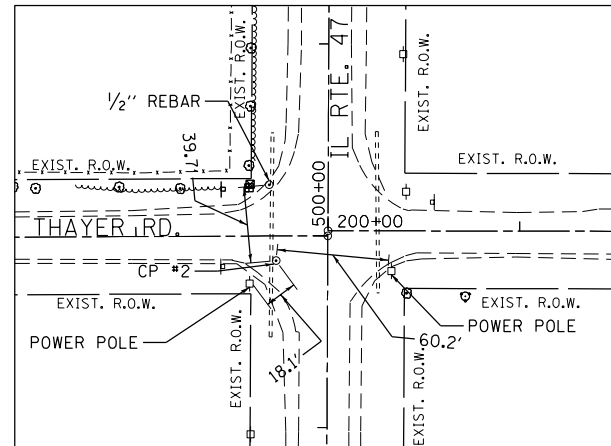
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	MCHENRY	106	25
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				



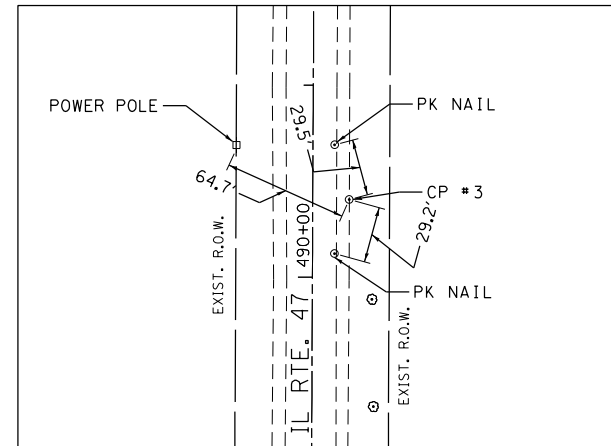
CONTROL POINT #1

IRON ROD
 STA. 191+64.67 THAYER RD.
 N 2093590.03
 E 955116.28
 ELEV. 873.00



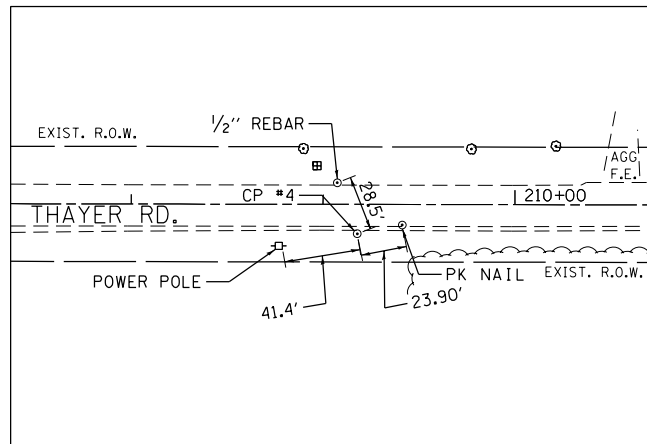
CONTROL POINT #2

MAG NAIL
 STA. 499+86.90 IL RTE. 47
 N 2093591.07
 E 955924.58
 ELEV. 875.59



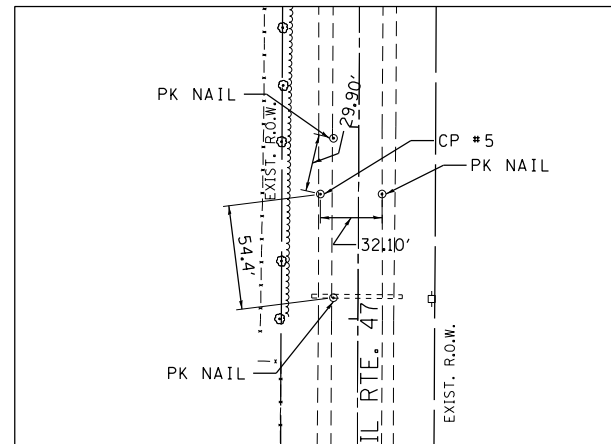
CONTROL POINT #3

IRON ROD
 STA. 490+40.59 IL RTE. 47
 N 2092644.54
 E 955965.93
 ELEV. 874.63



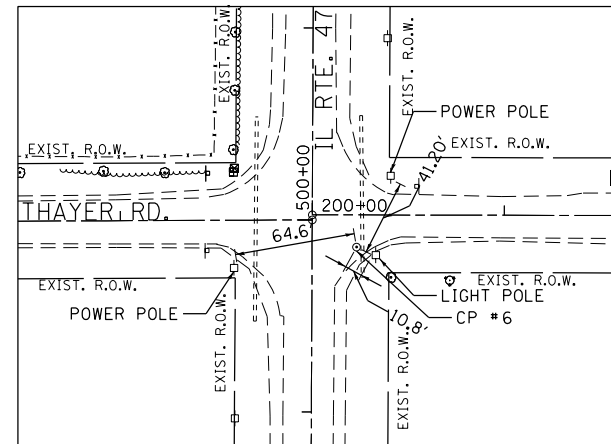
CONTROL POINT #4

IRON ROD
 STA. 209+17.97 THAYER RD.
 N 2093589.73
 E 956869.33
 ELEV. 877.54



CONTROL POINT #5

IRON ROD
 STA. 508+64.91 IL RTE. 47
 N 2094469.03
 E 955935.86
 ELEV. 883.52



CONTROL POINT #6

MAG NAIL
 STA. 499+86.00 IL RTE. 47
 N 2093589.92
 E 955974.64
 ELEV. 875.28

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	DRAWN - JN	REVISED -
PLOT SCALE = 400.0000' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 10/13/2017	DATE - 10/13/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT THAYER ROAD ALIGNMENT, TIES AND BENCHMARKS - II			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	26
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

ALIGNMENT COORDINATES - E_IL47N-1			
IL 47	STATION	N	E
POT	483+40.94	2,102,675.3799	955,999.7169
PC	485+42.99	2,102,877.4261	956,000.6021
PI	491+26.42	2,103,460.8527	956,003.1581
PT	496+51.34	2,103,877.1716	956,411.9021
PC	503+92.38	2,104,405.9536	956,931.0629
PI	509+76.21	2,104,822.5590	957,340.0882
PT	515+02.11	2,105,406.3720	957,345.0094
POT	517+79.82	2,105,684.0719	957,347.3502

ALIGNMENT COORDINATES - O'BRIEN-1			
O'BRIEN	STATION	N	E
POT	186+71.06	2,104,124.0794	955,327.2804
POT	197+07.83	2,104,129.8779	956,364.0342
POT	200+00.00	2,104,125.9453	956,656.1826

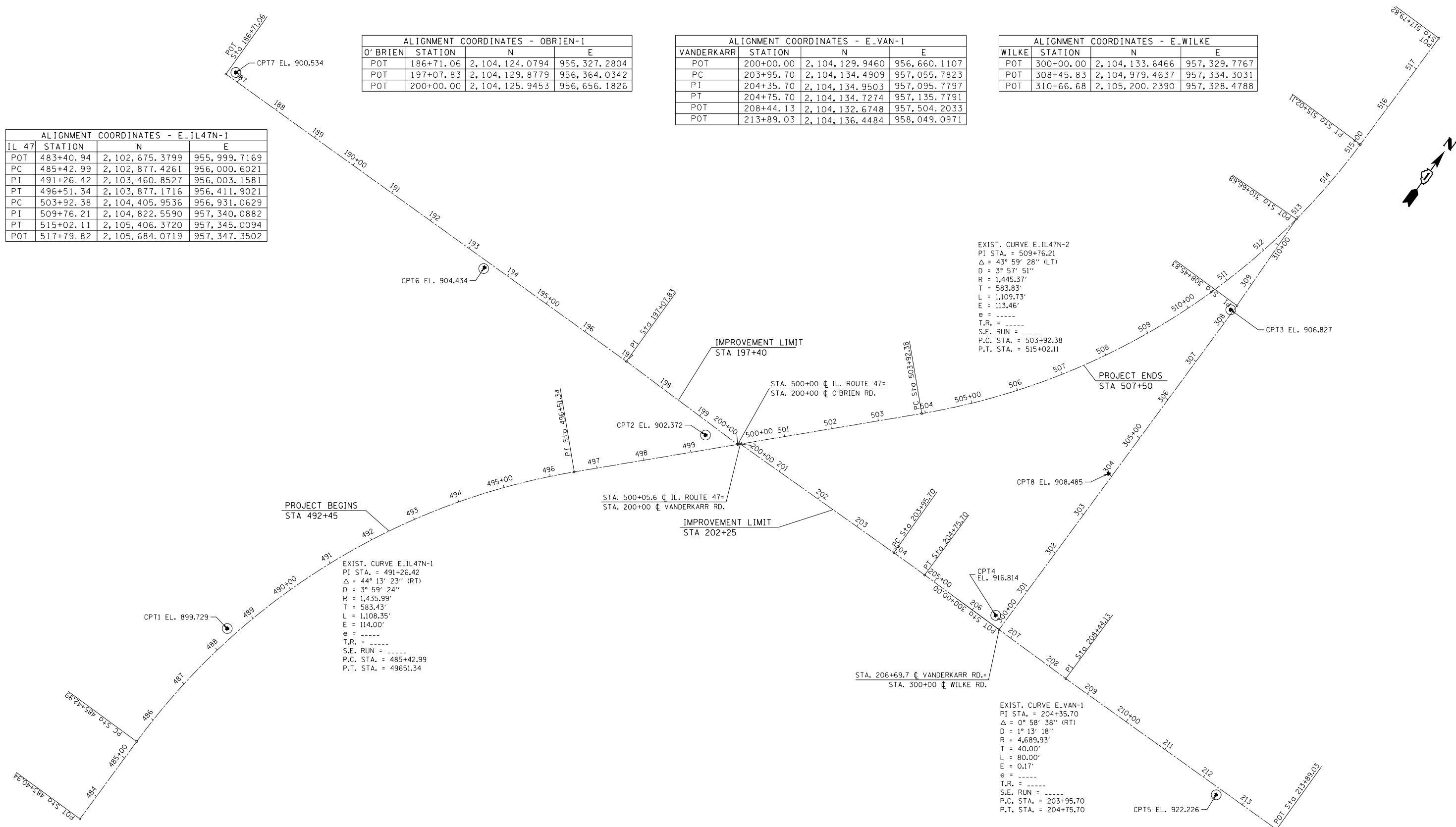
ALIGNMENT COORDINATES - E_VAN-1			
VANDERKARR	STATION	N	E
POT	200+00.00	2,104,129.9460	956,660.1107
PC	203+95.70	2,104,134.4909	957,055.7823
PI	204+35.70	2,104,134.9503	957,095.7797
PT	204+75.70	2,104,134.7274	957,135.7791
POT	208+44.13	2,104,132.6748	957,504.2033
POT	213+89.03	2,104,136.4484	958,049.0971

ALIGNMENT COORDINATES - E_WILKE			
WILKE	STATION	N	E
POT	300+00.00	2,104,133.6466	957,329.7767
POT	308+45.83	2,104,979.4637	957,334.3031
POT	310+66.68	2,105,200.2390	957,328.4788

EXIST. CURVE E_IL47N-2
 PI STA. = 509+76.21
 Δ = 43° 59' 28" (LT)
 D = 3° 57' 51"
 R = 1,445.37'
 T = 583.83'
 L = 1,109.73'
 E = 113.46'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 503+92.38
 P.T. STA. = 515+02.11

EXIST. CURVE E_IL47N-1
 PI STA. = 491+26.42
 Δ = 44° 13' 23" (RT)
 D = 3° 59' 24"
 R = 1,435.99'
 T = 583.43'
 L = 1,108.35'
 E = 114.00'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 485+42.99
 P.T. STA. = 496+51.34

EXIST. CURVE E_VAN-1
 PI STA. = 204+35.70
 Δ = 0° 58' 38" (RT)
 D = 1° 13' 18"
 R = 4,689.93'
 T = 40.00'
 L = 80.00'
 E = 0.17'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 203+95.70
 P.T. STA. = 204+75.70



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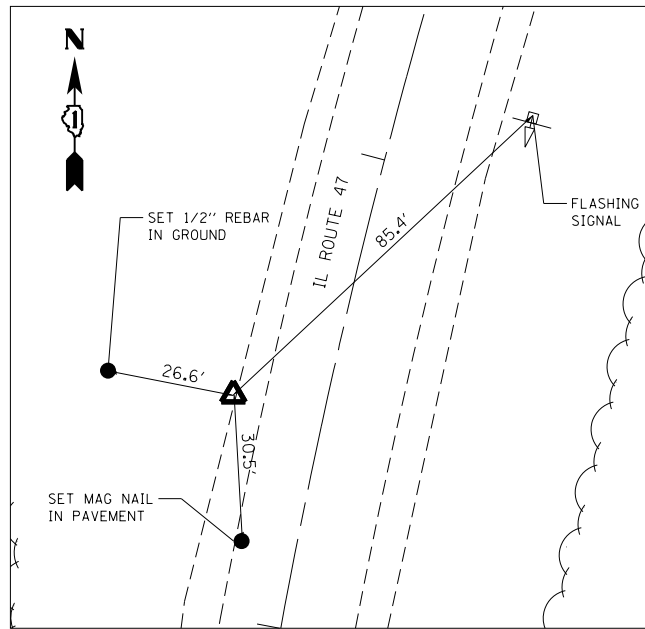
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
 ALIGNMENT, TIES AND BENCHMARKS - I

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	27
CONTRACT NO. 62C34				

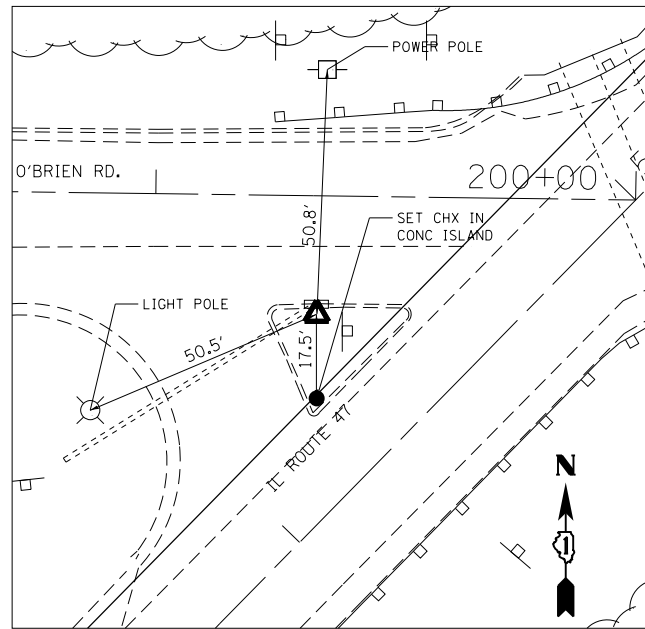
ILLINOIS FED. AID PROJECT



CONTROL POINT #1

SET 8" SPIKE IN GRASS
6.5' WEST OF E.O.P.

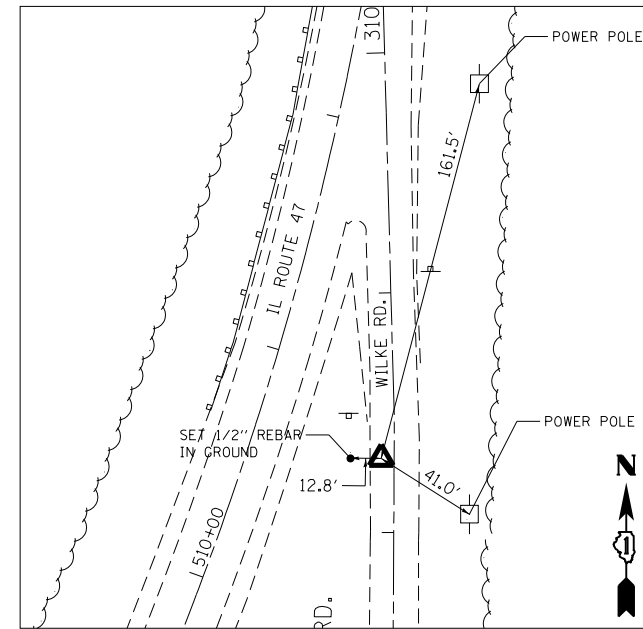
488+45.42, 19.29 LT IL RTE. 47
N. 2103181.5990
E. 956014.7970
ELEV. 899.729



CONTROL POINT #2

SET CHX IN CONCRETE ISLAND
1' SOUTH OF INLET

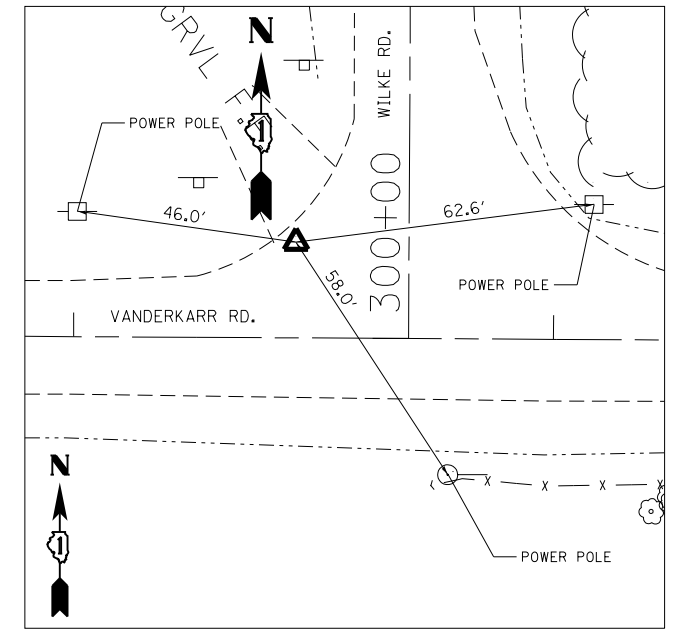
199+33.86, 24.69 RT O'BRIEN RD.
N. 2104102.1430
E. 956589.7090
ELEV. 902.372



CONTROL POINT #3

SET MAG NAIL IN PAVEMENT
WEST SIDE OF WILKE

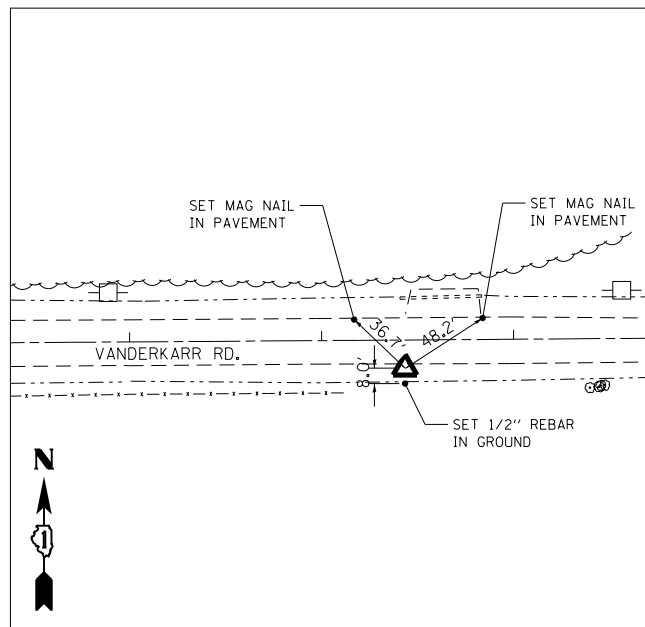
308+30.85, 5.42 LT WILKE RD.
N. 2104964.5170
E. 957328.8080
ELEV. 906.827



CONTROL POINT #4

SET MAG NAIL IN PAVEMENT
NORTHWEST CORNER OF WILKE
AND VANDERKARR

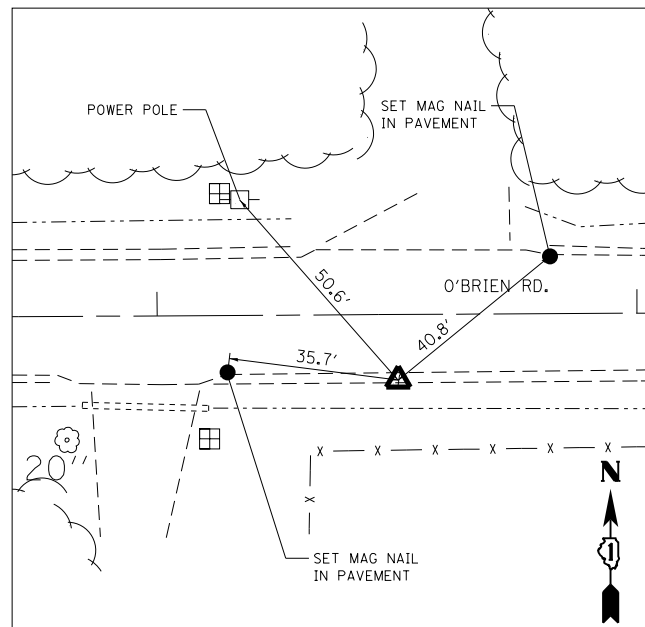
206+46.27, 19.92 LT VANDERKARR RD.
N. 2104153.6920
E. 957306.4590
ELEV. 916.814



CONTROL POINT #5

SET 1/2" REBAR WITH CAP
2' SOUTH OF E.O.P.

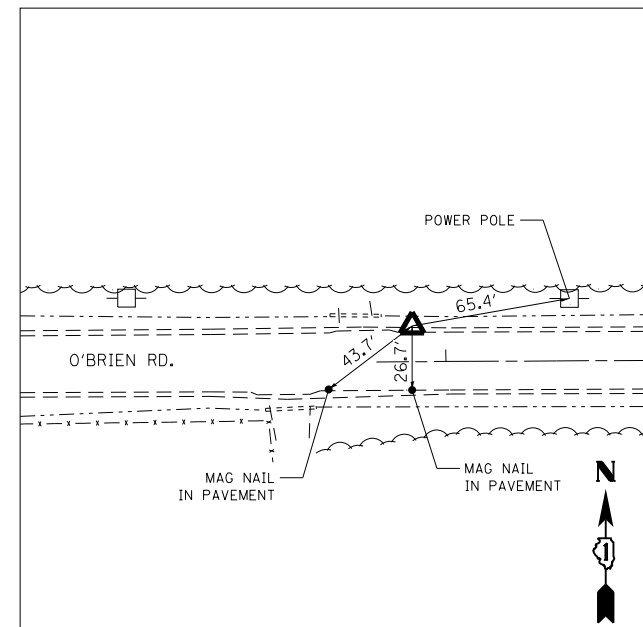
212+43.39, 14.68 RT VANDERKARR RD.
N. 2104120.7600
E. 957903.5630
ELEV. 922.226



CONTROL POINT #6

SET 1/2" REBAR WITH CAP
1.5' SOUTH OF E.O.P.

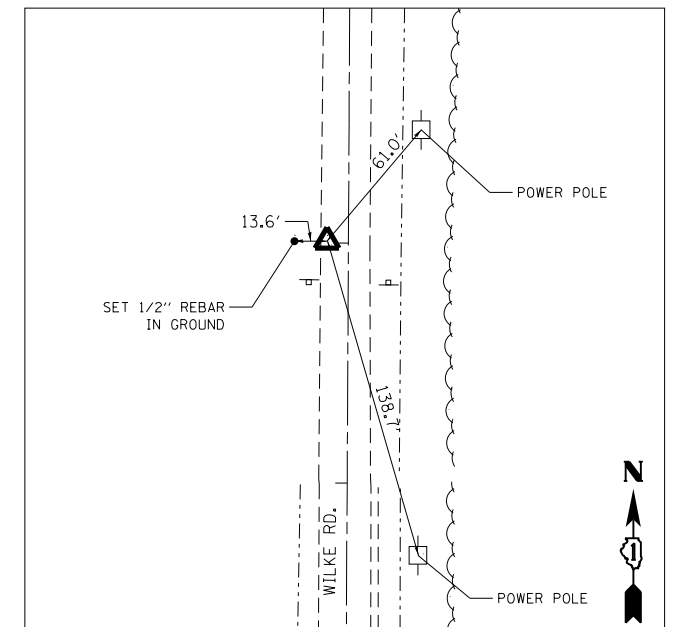
193+49.89, 16.55 RT O'BRIEN RD.
N. 2104114.2180
E. 956006.4470
ELEV. 905.078



CONTROL POINT #7

SET 1/2" REBAR WITH CAP
2.5' NORTH OF E.O.P.

186+85.99, 14.87 LT O'BRIEN RD
N. 2104139.0320
E. 955342.1280
ELEV. 900.534



CONTROL POINT #8

SET MAG NAIL IN PAVEMENT
WEST SIDE OF WILKE

304+00.81, 8.85 LT WILKE RD.
N. 2104534.5020
E. 957323.0720
ELEV. 908.485

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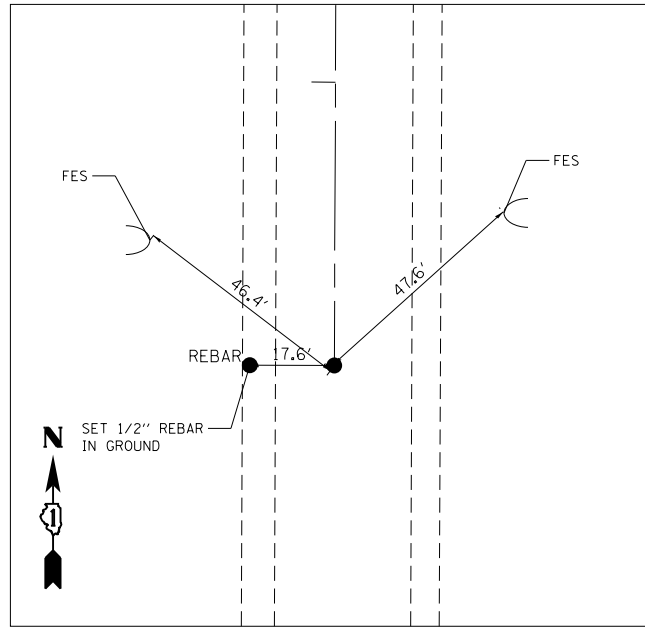
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
ALIGNMENT, TIES AND BENCHMARKS - II

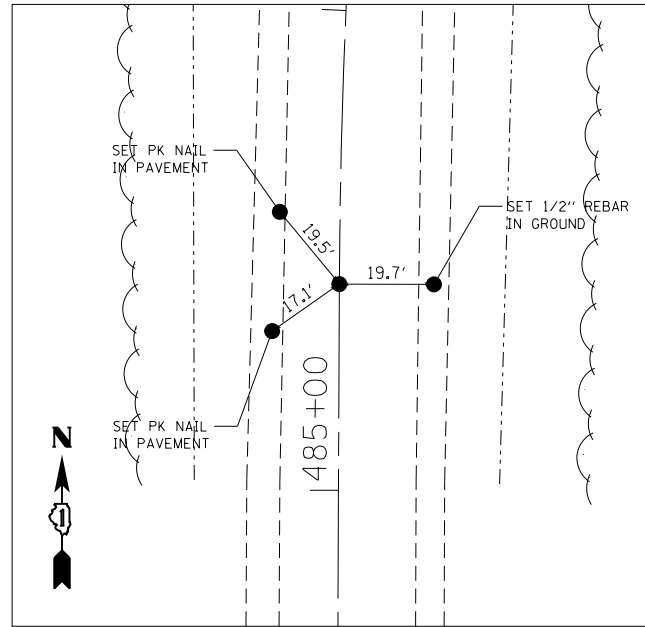
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	28
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				



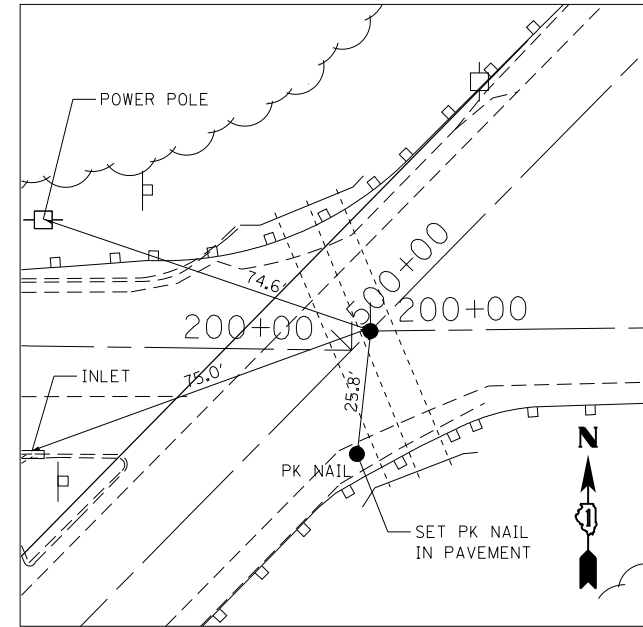
CENTERLINE TIE #12101
IL RTE. 47

PK NAIL IN PAVEMENT
483+40.94 IL RTE. 47
POT
N. 2102675.3799
E. 955999.7169
ELEV. 897.5490



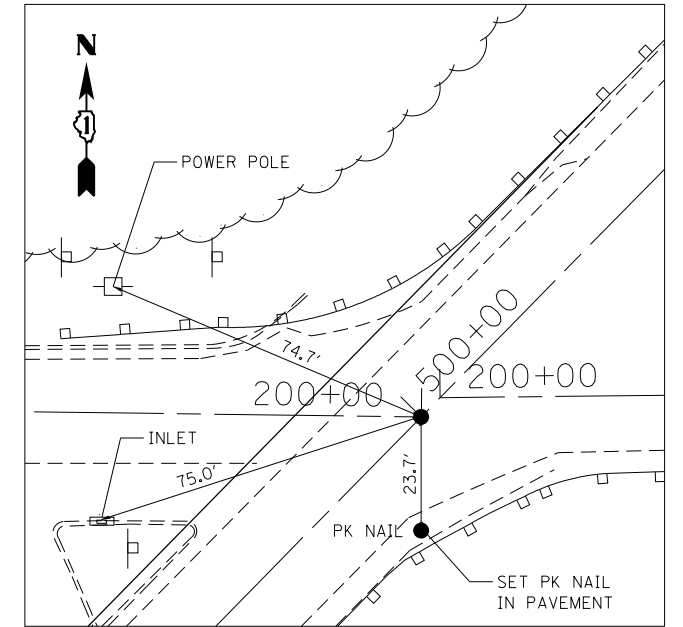
CENTERLINE TIE #12130
IL RTE. 47

PK NAIL IN PAVEMENT
485+42.99
PC
N. 2102877.4261
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ELEV. 898.3530



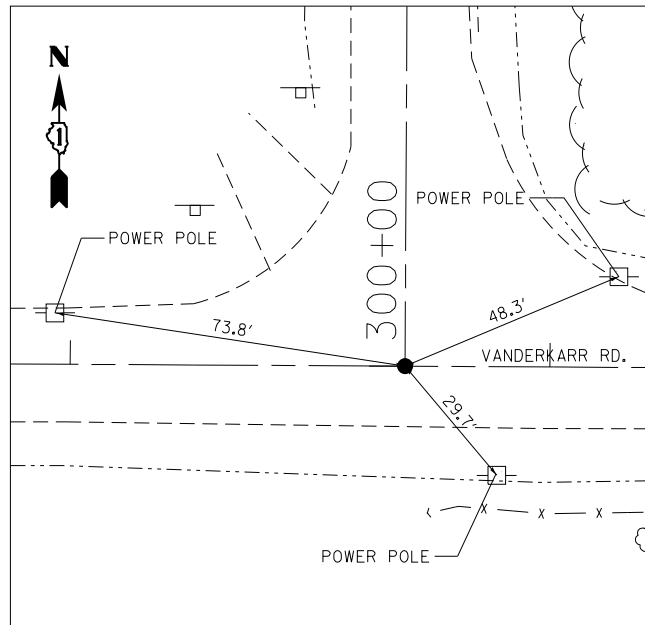
CENTERLINE TIE #12124
IL RTE. 47 & VANDERKARR RD.

PK NAIL IN PAVEMENT
500+05.60 CL IL. ROUTE 47
200+00 CL VANDERKARR RD.
N. 2104129.9460
E. 956660.1107
ELEV. 903.1900



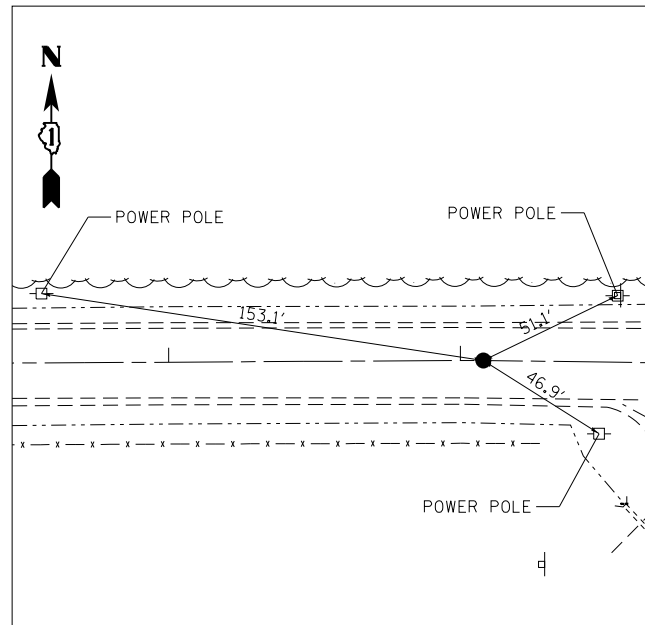
CENTERLINE TIE #12123
IL RTE. 47 & O'BRIEN RD.

PK NAIL IN PAVEMENT
500+00 CL IL. ROUTE 47
200+00 CL O'BRIEN RD.
N. 2104125.9453
E. 956656.1826
ELEV. 903.1580



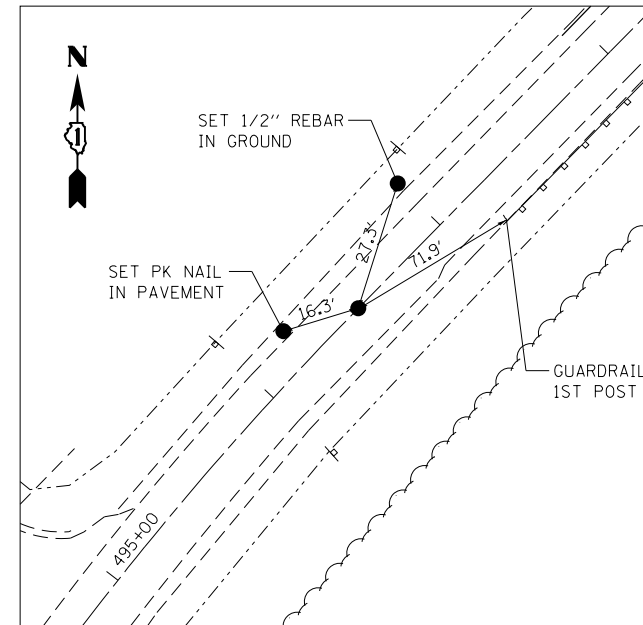
CENTERLINE TIE #12113
VANDERKARR RD. & WILKE RD.

PK NAIL IN PAVEMENT
206+69.70 CL VANDERKARR RD.
300+00 CL WILKE RD.
N. 2104133.6459
E. 957329.8925
ELEV. 918.4450



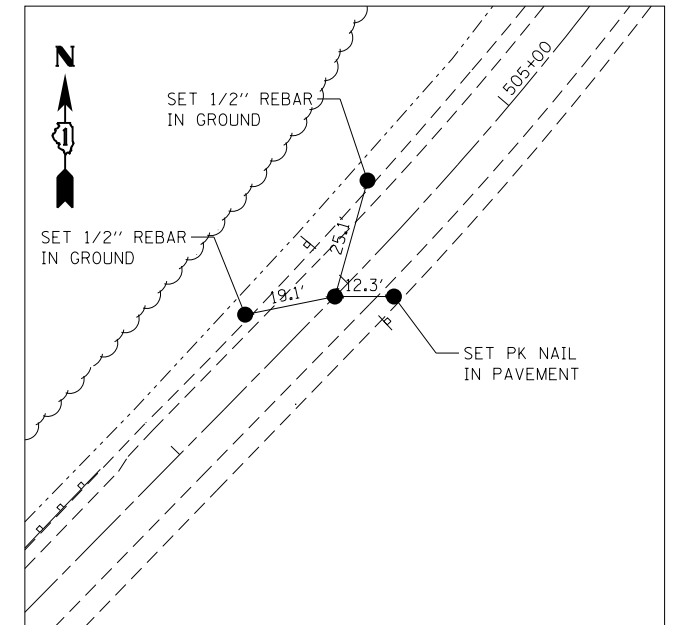
CENTERLINE TIE #12122
O'BRIEN RD.

PK NAIL IN PAVEMENT
197+07.83 O'BRIEN RD.
PI
N. 2104129.8779
E. 956364.0342
ELEV. 903.1320



CENTERLINE TIE #12131
IL RTE. 47

PK NAIL IN PAVEMENT
496+51.34 IL RTE. 47
PT
N. 2103877.1716
E. 956411.9021
ELEV. 901.9750



CENTERLINE TIE #12132
IL RTE. 47

PK NAIL IN PAVEMENT
503+92.38 IL RTE. 47
PC
N. 2104405.9536
E. 956931.0629
ELEV. 904.6860

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

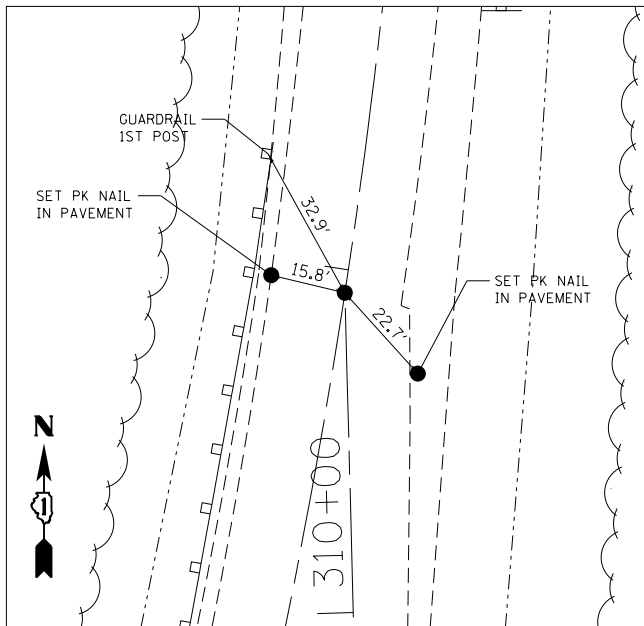
ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
ALIGNMENT, TIES AND BENCHMARKS III

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	29
CONTRACT NO. 62C34				

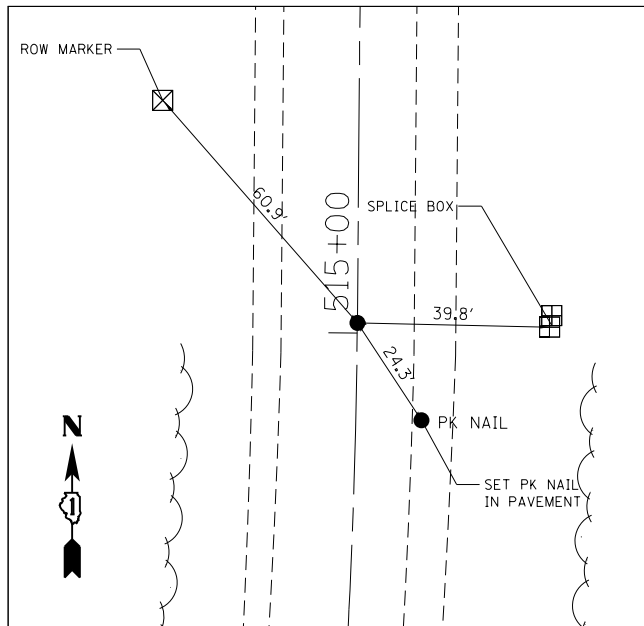
ILLINOIS FED. AID PROJECT

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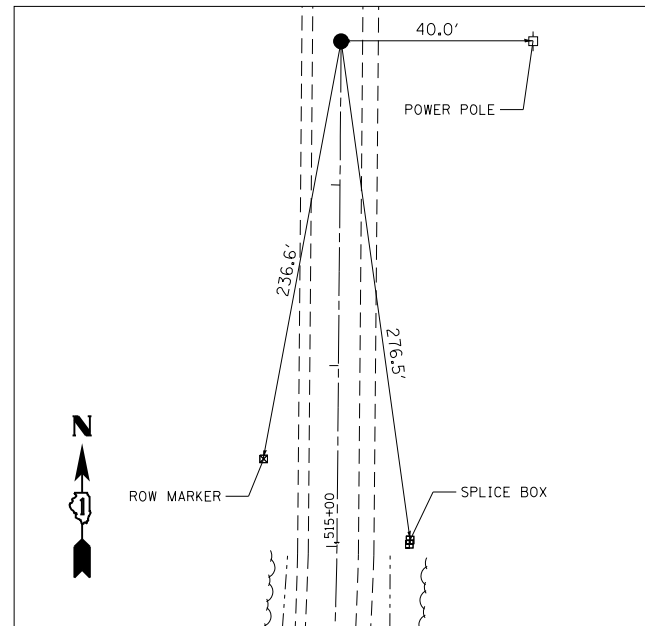
**CENTERLINE TIE #12133
WILKE RD**

PK NAIL IN PAVEMENT
310+66.68 WILKE RD.
POT
N. 2105200.2390
E. 957328.4780
ELEV. 907.7190



**CENTERLINE TIE #12134
IL RTE. 47**

PK NAIL IN PAVEMENT
517+79.82 IL RTE. 47
POT
N. 2105684.0719
E. 957347.3502
ELEV. 909.0260



**CENTERLINE TIE #12104
IL RTE. 47**

PK NAIL IN PAVEMENT
515+02.11 IL RTE. 47
POT
N. 2105406.3720
E. 957345.0094
ELEV. 908.4570

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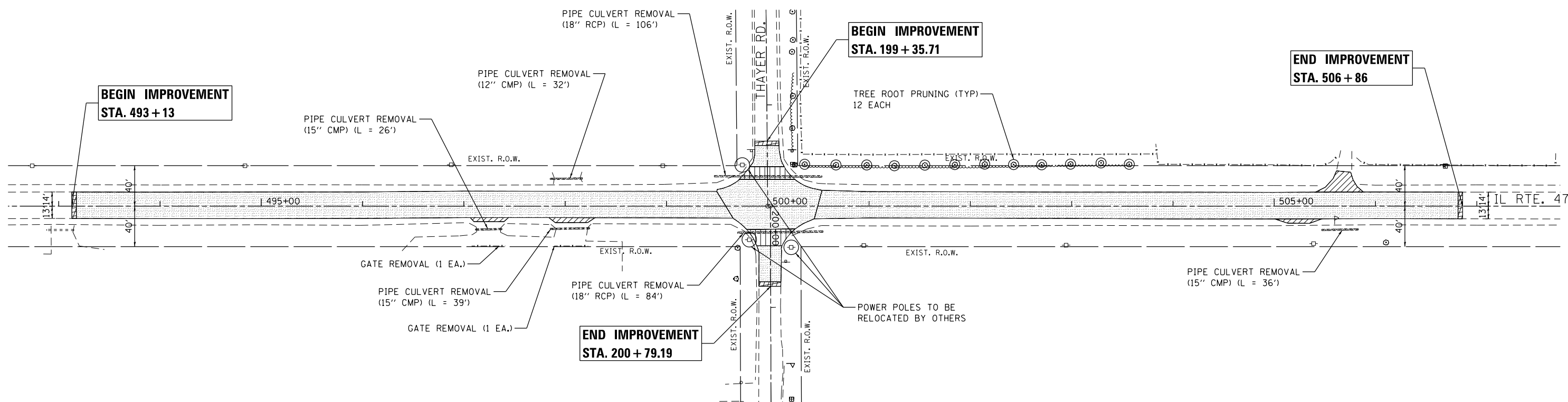
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
ALIGNMENT, TIES AND BENCHMARKS - IV**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	30
CONTRACT NO. 62C34			ILLINOIS FED. AID PROJECT	



LEGEND

- DRIVEWAY PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, 2 1/2"
- HMA SURFACE REMOVAL-BUTT JOINT
- FULL DEPTH PAVEMENT REMOVAL
- PIPE CULVERT REMOVAL

FILE NAME = 0:\Engineering\LiveProjects\13034 IDOT DUR Chest\MO 1\CAADD\CADD Sheets\C.v1\162C34-Sht-Removal.dgn



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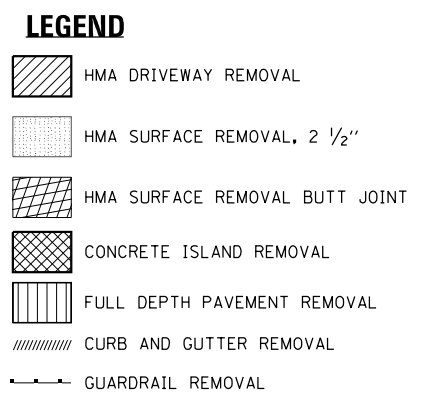
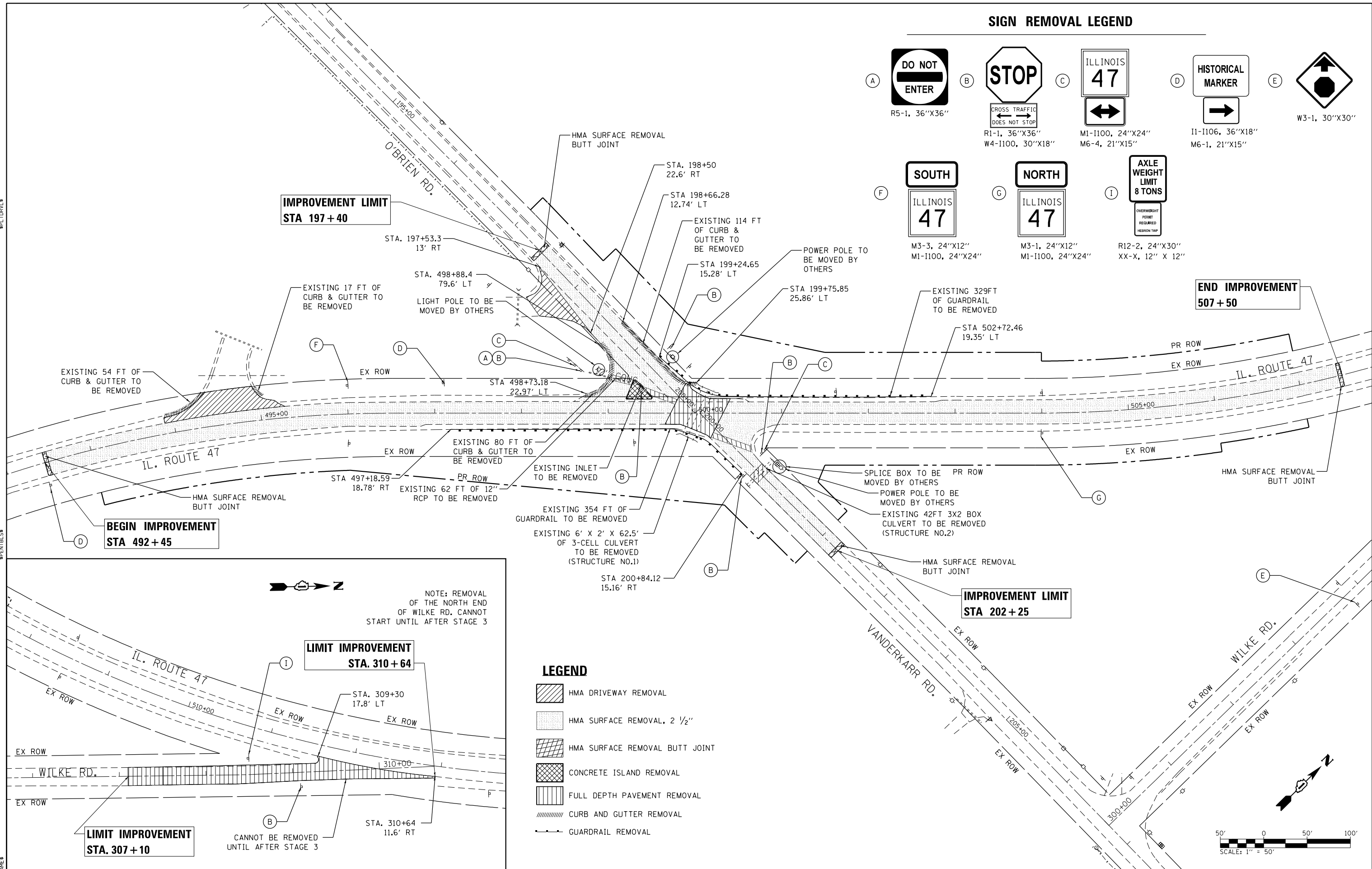
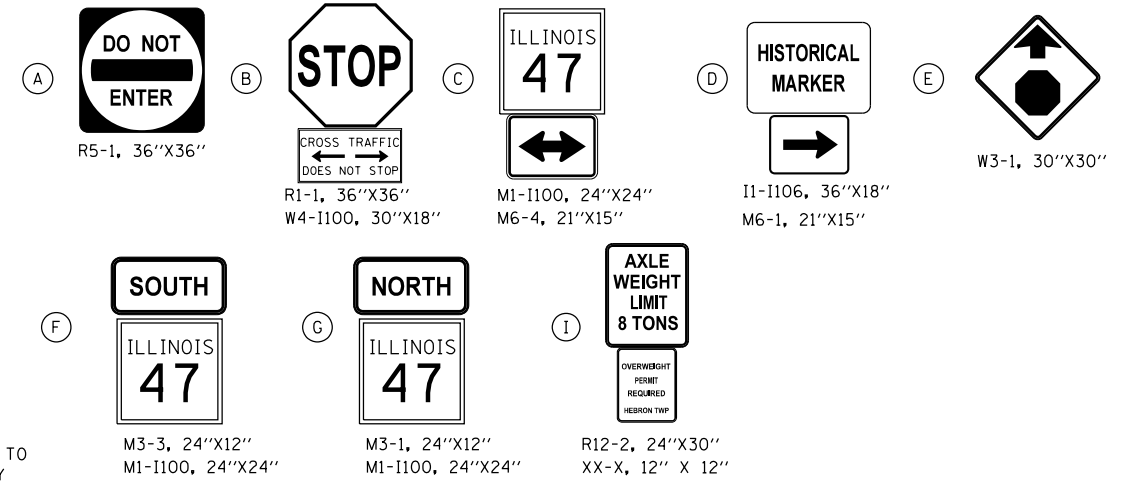
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
REMOVAL PLAN**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	31
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

SIGN REMOVAL LEGEND



NOTE: REMOVAL OF THE NORTH END OF WILKE RD. CANNOT START UNTIL AFTER STAGE 3

CANNOT BE REMOVED UNTIL AFTER STAGE 3

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = jpong	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
REMOVAL PLAN**

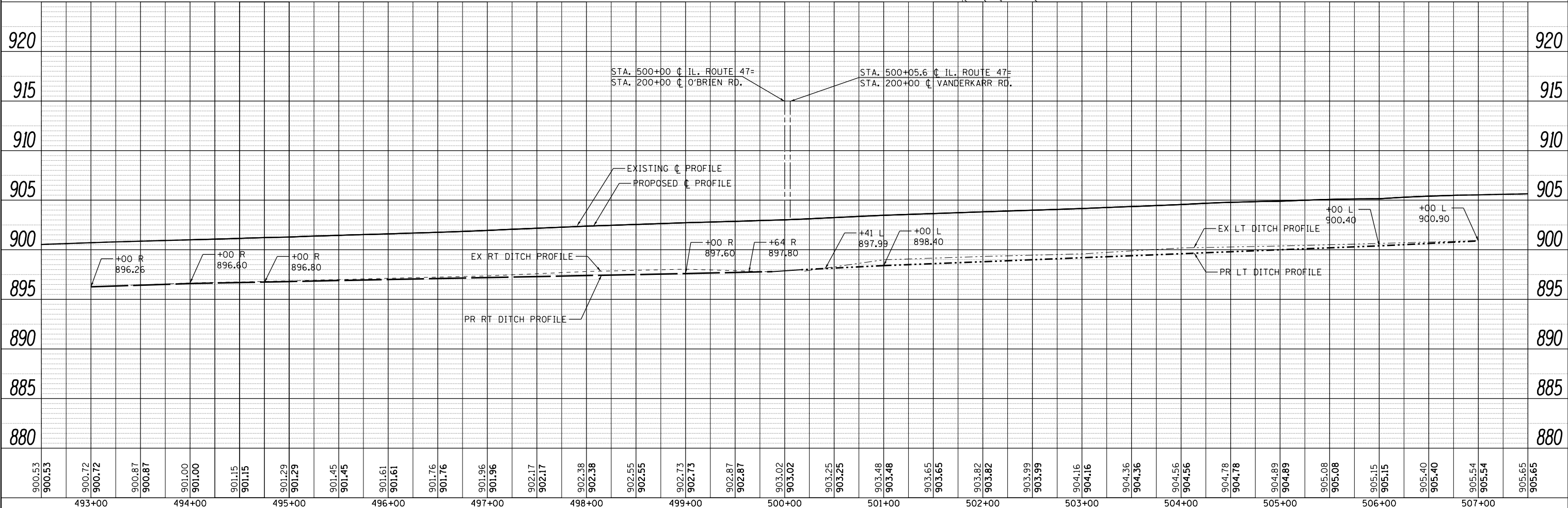
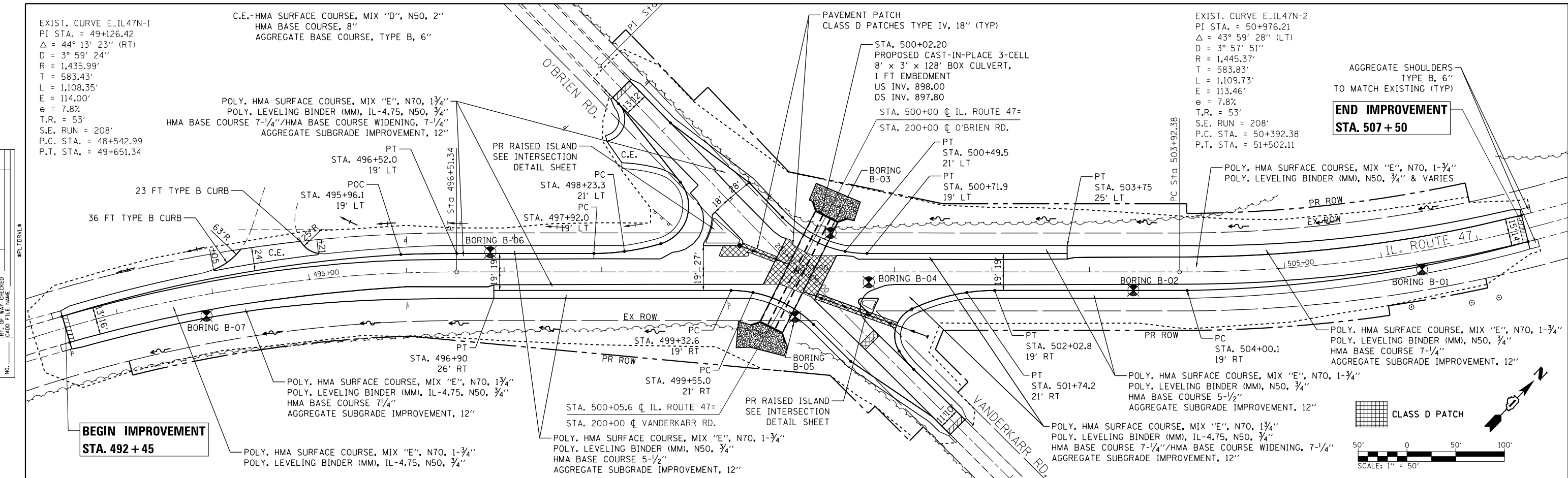
SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 104-N	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 32
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

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PLAN	SURVEYED
	PLOTTED
	ALIGNED
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	CONTRACT
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DATE	
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PROFILE	SURVEYED
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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
PLAN AND PROFILE

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 34
CONTRACT NO. 62C34				ILLINOIS FED. AID PROJECT

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR MAINTENANCE OF TRAFFIC.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
4. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING THE WORK.
5. IN ADVANCE OF ALL STAGE CHANGES ON IL ROUTE 47, THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG IL ROUTE 47 AS DIRECTED AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING STAGE CHANGE ON IL ROUTE 47. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER.
6. DRUMS OR TYPE II BARRICADES EQUIPPED WITH BI-DIRECTIONAL STEADY BURN LIGHT SHALL BE PROVIDED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
7. ALL "ROAD CONSTRUCTION AHEAD" AND "REDUCED SPEED AHEAD" SIGNS, AND TYPE III BARRICADES SHALL BE EQUIPPED WITH MONO-DIRECTIONAL TYPE A AMBER FLASHING LIGHTS.
8. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
9. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN.
10. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE MAINTENANCE OF TRAFFIC SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
11. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
12. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
13. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
14. WHEN THEY ARE NO LONGER NECESSARY, ALL TRAFFIC CONTROL DEVICES SHALL IMMEDIATELY BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC. W21-1 WORKER AND W20-7 FLAGGER SIGNS SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE FOR GREATER THAN ONE HOUR. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" X 6" DELINEATOR INSTALLED. THE COST OF THE DELINEATOR IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
15. TEMPORARY CONCRETE BARRIERS AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS SHOWN IN THE PLANS. FURNISHING, INSTALLING AND RELOCATING TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
16. TEMPORARY CONCRETE BARRIER SHALL BE CONTINUOUSLY PINNED TO THE PAVEMENT IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WHERE A 3.5 FOOT CLEAR ZONE FREE FROM DROP-OFFS, FIXED OBJECTS, OR OTHER OBSTACLES CANNOT BE PROVIDED BEHIND THE WALL. ANY HOLES LEFT IN EXISTING PAVEMENT AREAS THAT ARE NOT TO BE RESURFACED SHALL BE FILLED WITH A NON-SHRINK GROUT TO THE SURFACE OF THE EXISTING PAVEMENT. THE FILLING OF ANY HOLES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER.
17. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED OR OTHERWISE AFFECTED BY CONSTRUCTION.
18. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL STAGES OF CONSTRUCTION.
19. ACCESS TO ALL PRIVATE AND COMMERCIAL DRIVEWAYS AND ENTRANCES ARE TO BE MAINTAINED DURING CONSTRUCTION.

SUGGESTED SEQUENCE OF CONSTRUCTION & MAINTENANCE OF TRAFFIC

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER.

FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE PROJECT LIMITS.

SEQUENCE OF CONSTRUCTION:

PRE-STAGE

1. INSTALL PORTABLE CHANGEABLE MESSAGE SIGNS AS DIRECTED BY THE ENGINEER.
2. INSTALL EROSION CONTROL DEVICES PER THE EROSION CONTROL PLANS.

STAGE I

1. INSTALL STAGE I TRAFFIC CONTROL ON IL ROUTE 47 ACCORDING TO THE PLANS. SHIFT TRAFFIC WEST ON THE EXISTING PAVEMENT TO REDUCE TRAFFIC LANES TO 11' IN EACH DIRECTION.
2. UTILIZING HIGHWAY STANDARD 701201, DURING ALLOWABLE HOURS AS SPECIFIED IN THE SPECIAL PROVISION "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC", REMOVE THE EXISTING PIPE CULVERT AS INDICATED IN THE PLANS AND INSTALL THE PROPOSED PIPE CULVERT UNDER THAYER ROAD AND CONSTRUCT THE HMA PATCH ON THAYER ROAD.
3. CONSTRUCT THE PROPOSED EAST SIDE PAVEMENT WIDENING AND HMA SHOULDER THROUGH THE HMA BINDER/BASE COURSE. THE WIDENING AT AND OF THAYER ROAD SHALL BE LIMITED TO EXCAVATING AND COMPLETING THE WIDENED PAVEMENT ONE SIDE OF THAYER ROAD AT A TIME.
4. MAINTAIN ALL EROSION CONTROL DEVICES.

STAGE II

1. REMOVE STAGE I TRAFFIC CONTROL DEVICES AND INSTALL STAGE II TRAFFIC CONTROL ON IL ROUTE 47 ACCORDING TO THE PLANS. SHIFT TRAFFIC EAST TO PROVIDE 11' TRAFFIC LANES IN EACH DIRECTION.
2. UTILIZING HIGHWAY STANDARD 701201, DURING ALLOWABLE HOURS AS SPECIFIED IN THE SPECIAL PROVISION "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC", REMOVE THE EXISTING PIPE CULVERT AS INDICATED IN THE PLANS AND INSTALL THE PROPOSED PIPE CULVERT UNDER THAYER ROAD AND CONSTRUCT THE HMA PATCH ON THAYER ROAD.
3. CONSTRUCT THE PROPOSED WEST SIDE PAVEMENT WIDENING AND HMA SHOULDER THROUGH THE HMA BINDER/BASE COURSE. THE WIDENING AT AND OF THAYER ROAD SHALL BE LIMITED TO EXCAVATING AND COMPLETING THE WIDENED PAVEMENT ONE SIDE OF THAYER ROAD AT A TIME.
4. MAINTAIN ALL EROSION CONTROL DEVICES.

STAGE III

1. COMPLETE ALL UNFINISHED LANDSCAPING.
2. MILL EXISTING PAVEMENT AND PLACE HMA LEVELING BINDER AND HMA SURFACE COURSE OVER ALL PAVEMENT UTILIZING HIGHWAY STANDARD 701201.
3. INSTALL PERMANENT PAVEMENT MARKINGS AND SIGNAGE UTILIZING HIGHWAY STANDARD 701306 ON IL ROUTE 47.
4. REMOVE TEMPORARY EROSION CONTROL DEVICES.

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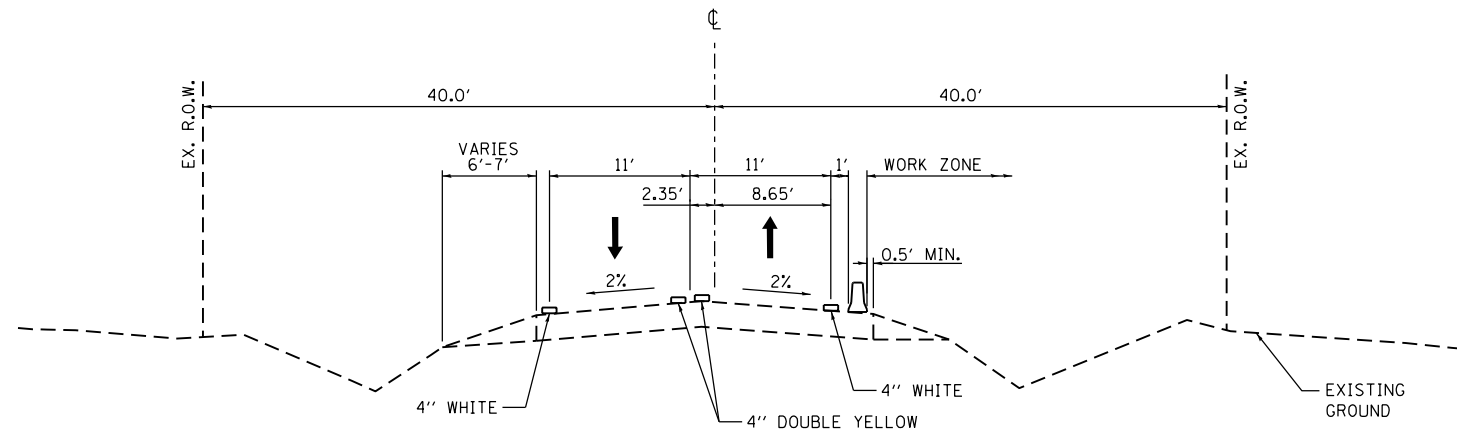
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

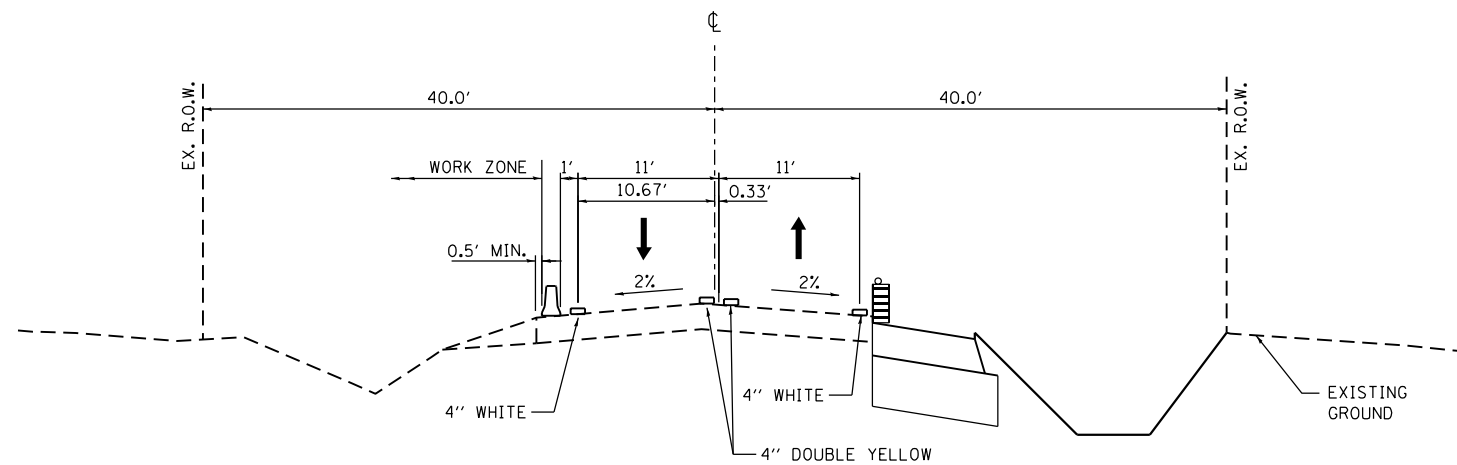
**ILLINOIS ROUTE 47 O'BRIEN/VANDERKARR RD AND THAYER ROAD
MAINTENANCE OF TRAFFIC GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	37
				CONTRACT NO. 62C34
ILLINOIS FED. AID PROJECT				







STAGE I
IL ROUTE 47
 STA. 491+77 TO STA. 508+24



STAGE II
IL ROUTE 47
 STA. 491+76 TO STA. 508+24

LEGEND

-  TEMPORARY PAVEMENT MARKING
-  TEMPORARY CONCRETE BARRIER WITH TYPE C MARKERS (IDOT STD. 782006)
-  DRUM OR TYPE II BARRICADES WITH STEADY BURNING BI-DIRECTIONAL LIGHT AT 50' C-C SPACING IN TANGENTS, 20' C-C SPACING IN TAPERS & 10' C-C SPACING IN RADII
-  DIRECTION OF TRAFFIC

FILE NAME = O:\Engineering\LiveProjects\13034 IDOT DUR Chest\MO I\CAADD\CADD Sheets\C.v1\162C34-Sht-M01-Top Section.dgn



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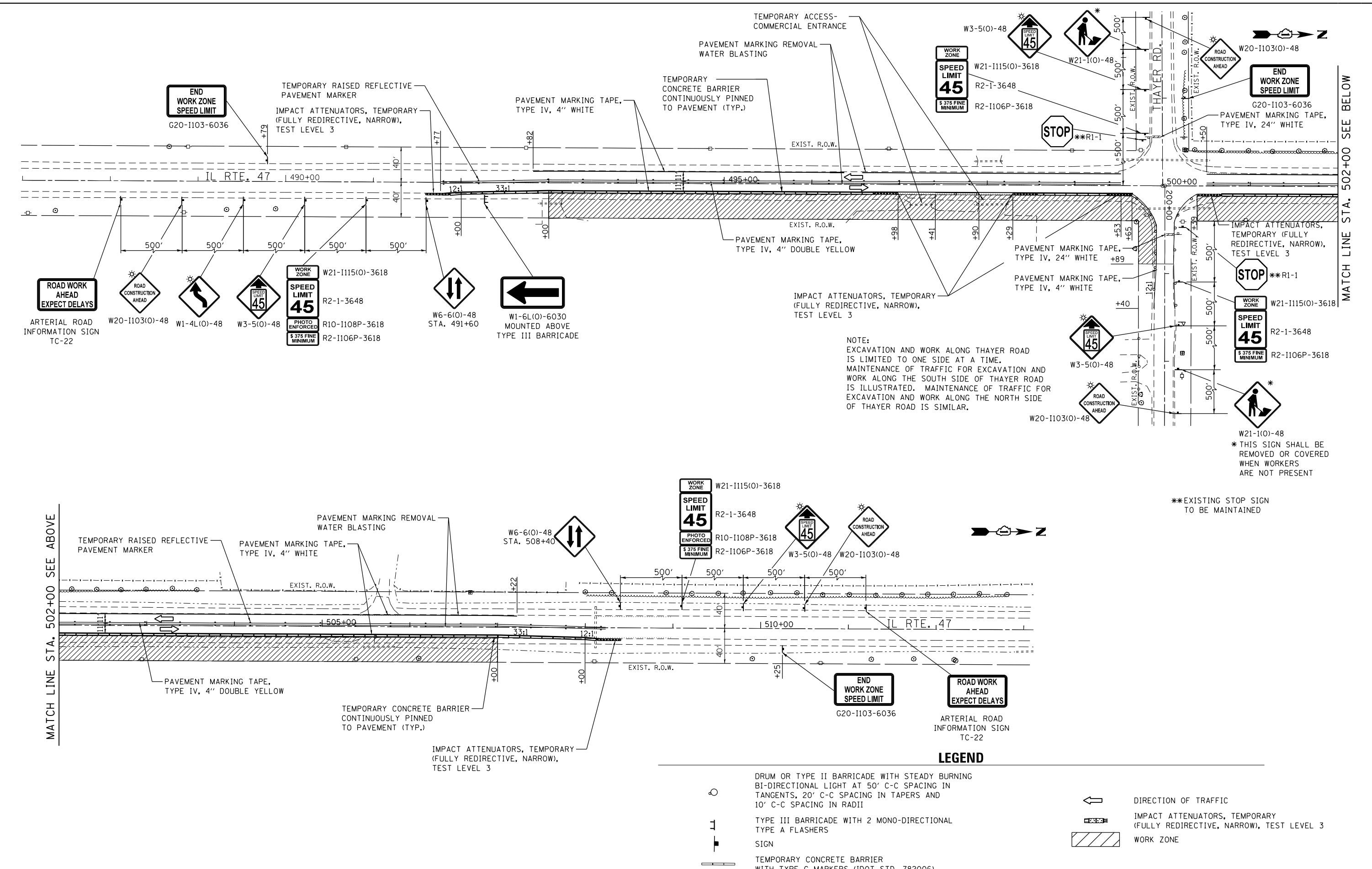
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT THAYER ROAD
MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	38
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

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NOTE:
EXCAVATION AND WORK ALONG THAYER ROAD IS LIMITED TO ONE SIDE AT A TIME. MAINTENANCE OF TRAFFIC FOR EXCAVATION AND WORK ALONG THE SOUTH SIDE OF THAYER ROAD IS ILLUSTRATED. MAINTENANCE OF TRAFFIC FOR EXCAVATION AND WORK ALONG THE NORTH SIDE OF THAYER ROAD IS SIMILAR.

* THIS SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT

**EXISTING STOP SIGN TO BE MAINTAINED

LEGEND

- DRUM OR TYPE II BARRICADE WITH STEADY BURNING BI-DIRECTIONAL LIGHT AT 50' C-C SPACING IN TANGENTS, 20' C-C SPACING IN TAPERS AND 10' C-C SPACING IN RADII
- TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS
- SIGN
- TEMPORARY CONCRETE BARRIER WITH TYPE C MARKERS (IDOT STD. 782006)
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- WORK ZONE



USER NAME = johnn	DESIGNED - SAT	REVISED -
	DRAWN - SAT	REVISED -
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PLOT DATE = 10/13/2017	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

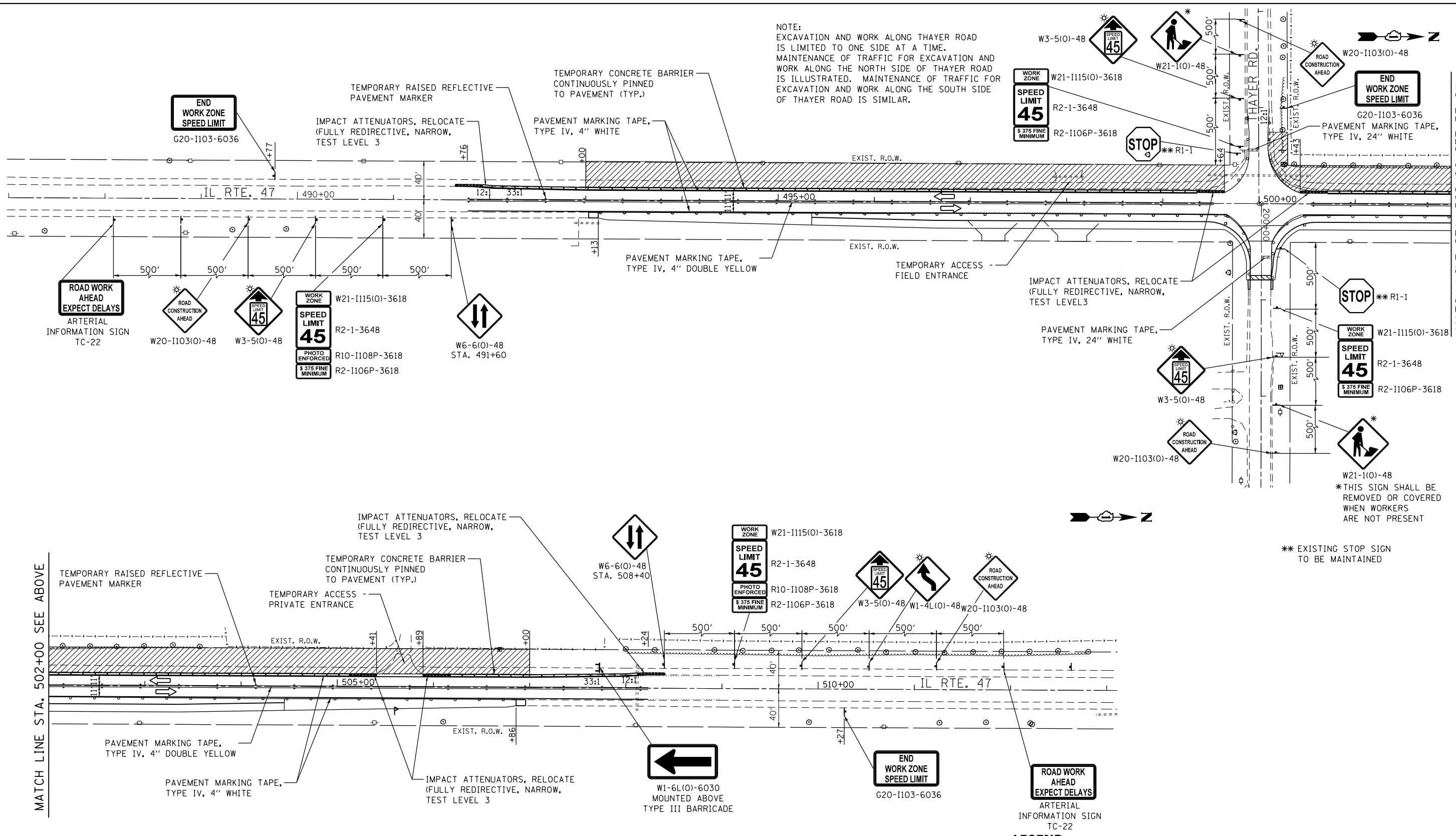
**ILLINOIS ROUTE 47 AT THAYER ROAD
MAINTENANCE OF TRAFFIC - STAGE I**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	39
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 502+00 SEE BELOW

NOTE:
 EXCAVATION AND WORK ALONG THAYER ROAD IS LIMITED TO ONE SIDE AT A TIME. MAINTENANCE OF TRAFFIC FOR EXCAVATION AND WORK ALONG THE NORTH SIDE OF THAYER ROAD IS ILLUSTRATED. MAINTENANCE OF TRAFFIC FOR EXCAVATION AND WORK ALONG THE SOUTH SIDE OF THAYER ROAD IS SIMILAR.



MATCH LINE STA. 502+00 SEE BELOW

MATCH LINE STA. 502+00 SEE ABOVE



** EXISTING STOP SIGN TO BE MAINTAINED

W21-1(0)-48
 * THIS SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT

LEGEND

- DRUM OR TYPE II BARRICADE WITH STEADY BURNING BI-DIRECTIONAL LIGHT AT 50' C-C SPACING IN TANGENTS, 20' C-C SPACING IN TAPERS AND 10' C-C SPACING IN RADII
- TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS
- SIGN
- RELOCATE TEMPORARY CONCRETE BARRIER WITH TYPE C MARKERS (IDOT STD. 782006)
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- WORK ZONE

FILE NAME = Q:\Engineering\LiveProjects\13034 IDOT DUR Chest\MO 1\CAD\CADD Sheets\C.v1\162C34-Sht-MOT Stage II.dgn



USER NAME = johnn	DESIGNED - SAT	REVISED -
	DRAWN - SAT	REVISED -
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PLOT DATE = 10/13/2017	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
 MAINTENANCE OF TRAFFIC - STAGE II**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	40
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				



LEGEND

- | | | | |
|--|--------------|--|---------------|
| | SPECIAL-3618 | | M4-8-2412 |
| | M4-9R-3024 | | M5-5-2412 |
| | M4-9L-3024 | | W20-2-48 |
| | SPECIAL-3024 | | M4-8A-2418 |
| | SPECIAL-3024 | | R11-4-3060 |
| | SPECIAL-3024 | | M1-11000-2424 |
| | SPECIAL-5436 | | M3-4-2412 |
| | R11-2-4830 | | M5-1R-2115 |
| | M4-10R-4818 | | M6-1-2115 |
| | | | M6-3-2115 |

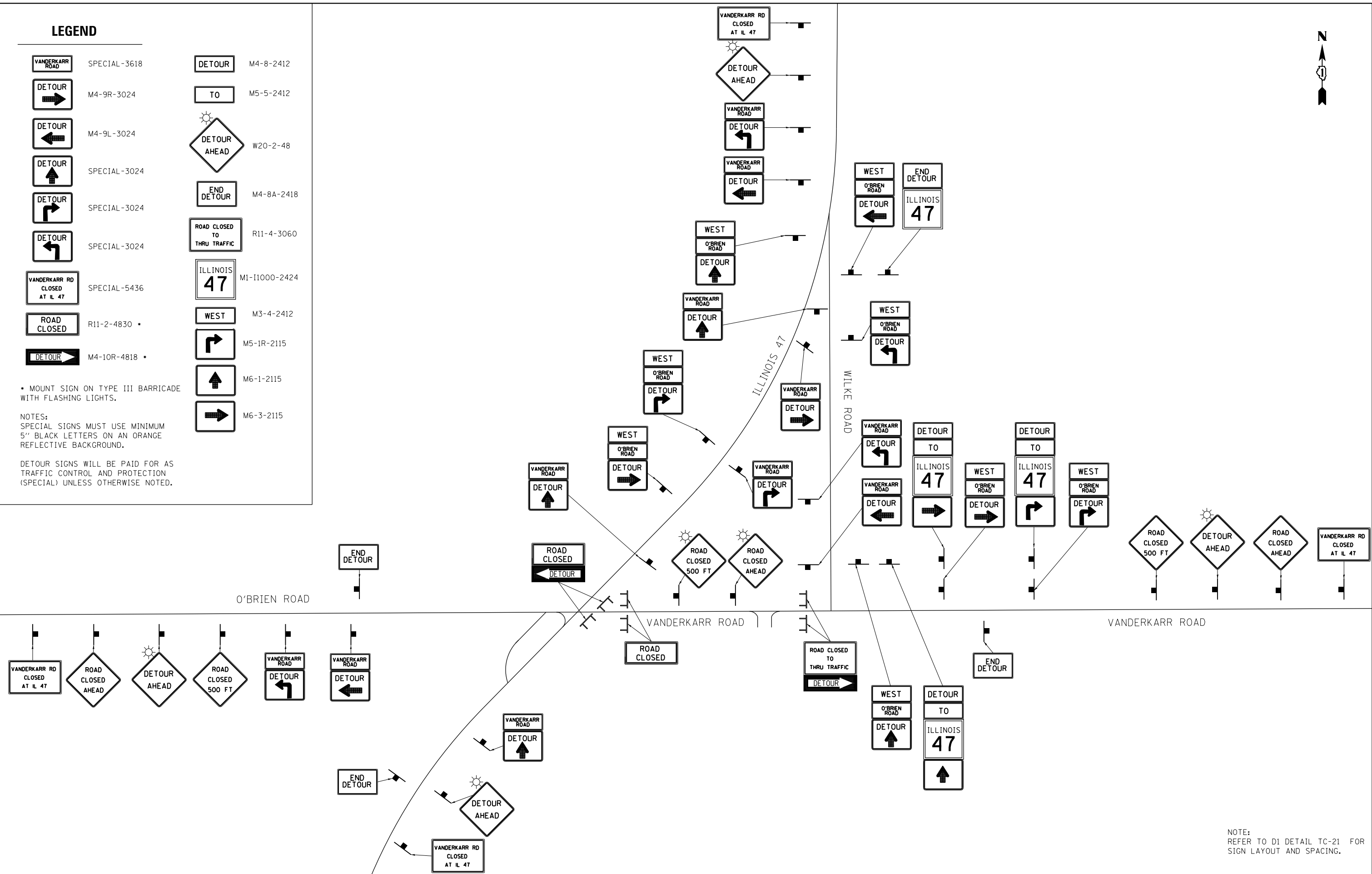
* MOUNT SIGN ON TYPE III BARRICADE WITH FLASHING LIGHTS.

NOTES:
SPECIAL SIGNS MUST USE MINIMUM 5" BLACK LETTERS ON AN ORANGE REFLECTIVE BACKGROUND.

DETOUR SIGNS WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE NOTED.

\$PLTDIVL\$

\$PENTBLS\$



NOTE:
REFER TO D1 DETAIL TC-21 FOR SIGN LAYOUT AND SPACING.

FILE NAME = D:\62C34\11\1\detour.dgn
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<p>CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397</p>	USER NAME = jpong	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS VANDERKARR ROAD DETOUR ROUTE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.000' / 1" =	CHECKED -	REVISED -			326	104-N	McHENRY	106	41
PLOT DATE = 11/3/2017	DATE -	REVISED -								CONTRACT NO. 62C34
										ILLINOIS FED. AID PROJECT

SUGGESTED SEQUENCE OF CONSTRUCTION & MAINTENANCE OF TRAFFIC

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER.

FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE PROJECT LIMITS.

SEQUENCE OF CONSTRUCTION:

PRE-STAGE

1. INSTALL PORTABLE CHANGEABLE MESSAGE SIGNS AS DIRECTED BY THE ENGINEER.
2. INSTALL EROSION CONTROL DEVICES PER THE EROSION CONTROL PLANS.
3. INSTALL DETOUR SIGNAGE.
4. CLOSE VANDERKARR ROAD, EAST OF ILLINOIS ROUTE 47.
5. REMOVE EXISTING INTERSECTION ISLANDS AND REPLACE WITH TEMPORARY PAVEMENT.

STAGE I

1. INSTALL TEMPORARY PAVEMENT AND EMBANKMENT FOR STAGE 1 TRAFFIC LANES
2. INSTALL STAGE I TRAFFIC CONTROL ON IL ROUTE 47 ACCORDING TO THE PLANS. SHIFT TRAFFIC WEST TO STAGE 1 TRAFFIC LANES
3. REMOVE THE STAGE 1 PORTION OF THE EXISTING CULVERT AS INDICATED IN THE PLANS AND INSTALL THE STAGE 1 PORTION OF THE PROPOSED CAST-IN-PLACE CULVERT.
4. CONSTRUCT THE PROPOSED EAST SIDE PAVEMENT WIDENING AND TEMPORARY PAVEMENT FOR THE STAGE 2 TRAFFIC LANES.
5. MAINTAIN ALL EROSION CONTROL DEVICES.

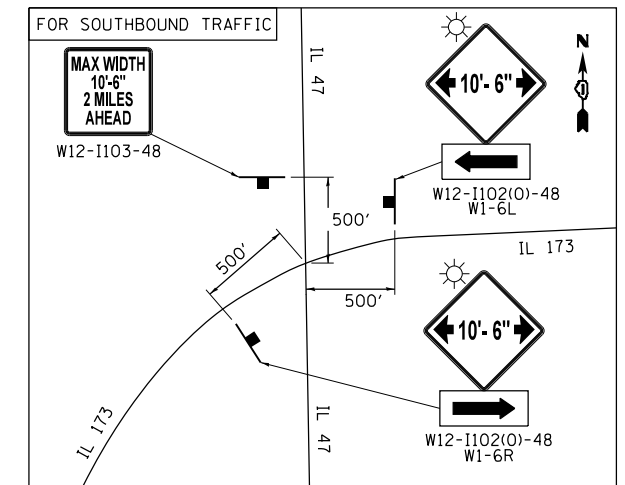
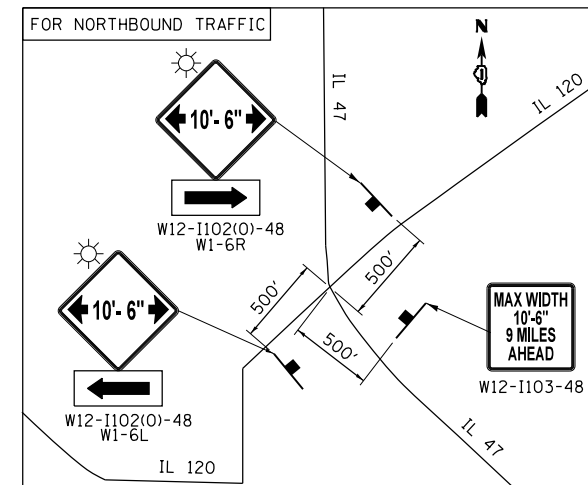
STAGE II

1. INSTALL TEMPORARY PAVEMENT NEEDED TO REALIGN THE O'BRIEN LEG OF THE INTERSECTION AS INDICATED ON THE PLANS
2. REMOVE STAGE I TRAFFIC CONTROL DEVICES AND INSTALL STAGE II TRAFFIC CONTROL ON IL ROUTE 47 ACCORDING TO THE PLANS. SHIFT TRAFFIC EAST TO THE TO STAGE 2 TRAFFIC LANES.
3. REMOVE THE REMAINING PORTION OF THE EXISTING CULVERT AS INDICATED IN THE PLANS AND INSTALL THE STAGE 2 PORTION OF THE PROPOSED CAST-IN-PLACE PIPE CULVERT.
4. CONSTRUCT THE PROPOSED WEST SIDE PAVEMENT WIDENING, INTERSECTION ISLAND AND HMA SHOULDER.
5. INSTALL TEMPORARY PAVEMENT MARKING TO SHIFT TRAFFIC TO THE WEST SIDE OF ILLINOIS ROUTE 47.
6. REMOVE STAGE 2 TRAFFIC LANE TEMPORARY BARRIER WALL AND SHIFT TRAFFIC TO WEST SIDE OF ILLINOIS ROUTE 47.

STAGE III

1. REMOVE REMAINING TEMPORARY PAVEMENT AND INSTALL INTERECTION ISLAND AND HMA SHOULDERS ALONG THE EAST SIDE OF ILLINOIS ROUTE 47.
2. INSTALL TEMPORARY PAVEMENT MARKING TO SHIFT TRAFFIC TO CENTER OF ILLINOIS ROUTE 47.
3. OPEN VANDERKARR ROAD AT ILLINOIS ROUTE 47 AND REMOVE DETOUR SIGNAGE.
4. REMOVE EXISTING PAVEMENT ALONG WILKE ROAD AT THE INTERSECTION OF ILLINOIS ROUTE 47 AND WILKE ROAD.
4. COMPLETE ALL UNFINISHED LANDSCAPING.
6. MILL EXISTING PAVEMENT AND PLACE HMA LEVELING BINDER AND HMA SURFACE COURSE OVER ALL PAVEMENT UTILIZING HIGHWAY STANDARD 701201.
7. INSTALL PERMANENT PAVEMENT MARKINGS UTILIZING HIGHWAY STANDARD 701306 AND SIGNAGE ON IL ROUTE 47.
8. REMOVE TEMPORARY EROSION CONTROL DEVICES.

ADVANCED SIGNAGE AT INTERSECTION



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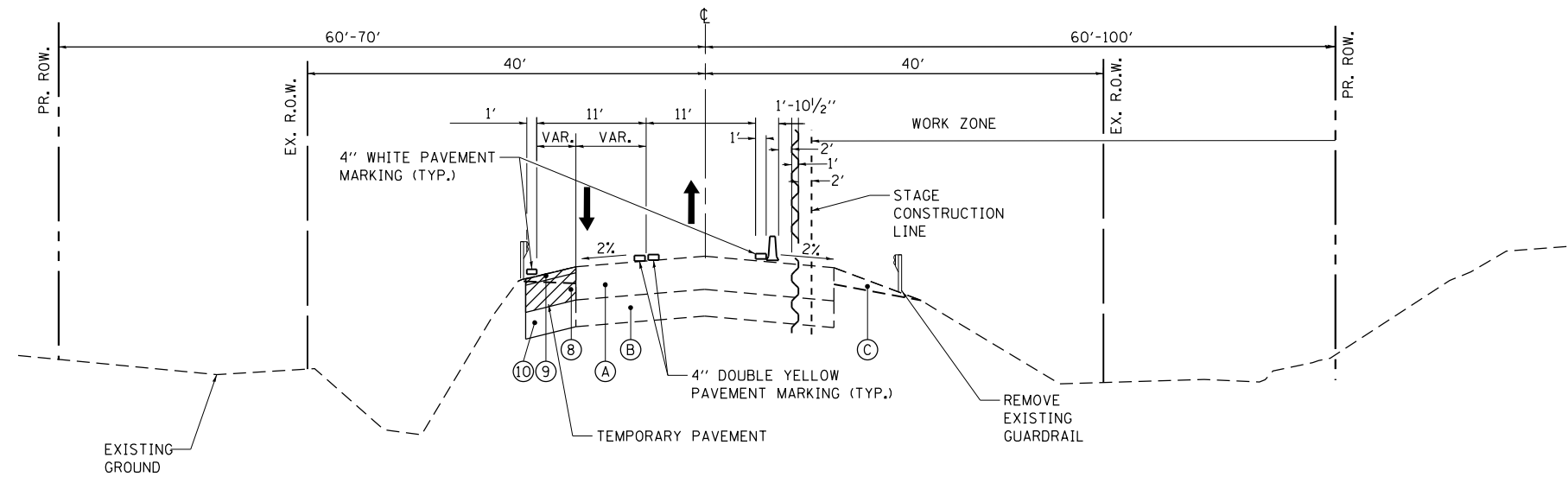
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
SEQUENCE OF CONSTRUCTION & MAINTENANCE OF TRAFFIC

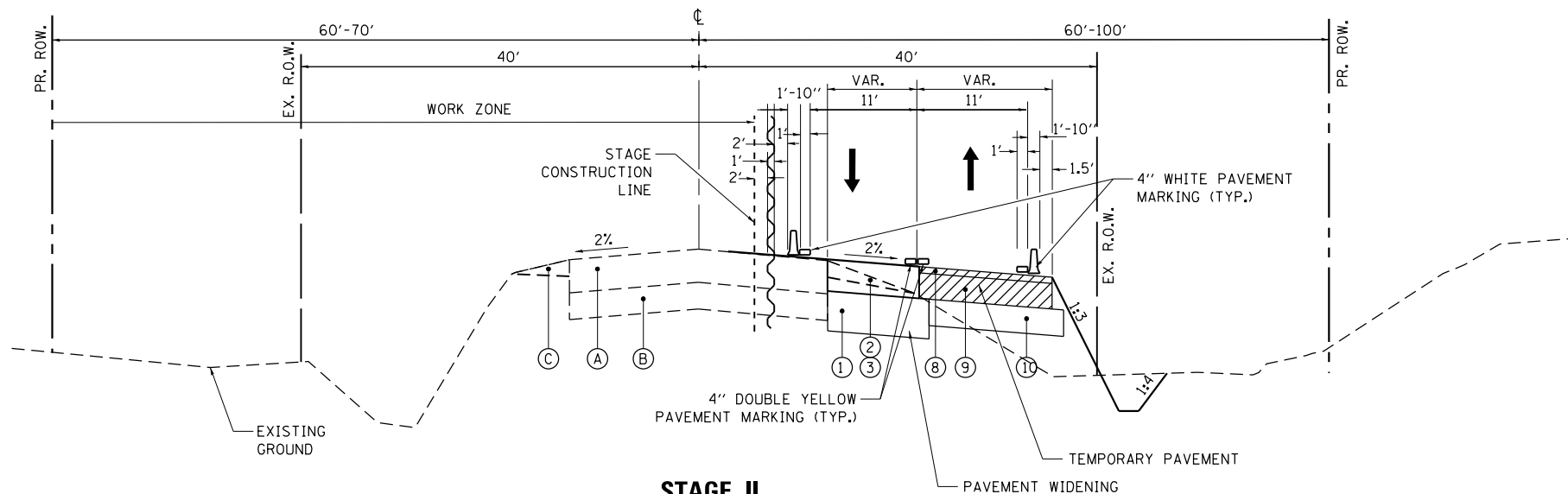
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	42
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				



**STAGE I
IL ROUTE 47**





STA. 492+45 TO STA. 507+50



**STAGE II
IL ROUTE 47**

STA. 492+45 TO STA. 507+50

LEGEND

-  TEMPORARY PAVEMENT MARKING
-  TEMPORARY CONCRETE BARRIER WALL WITH TYPE C MARKERS
-  DIRECTION OF TRAFFIC
-  TEMPORARY PAVEMENT

EXISTING LEGEND

- (A) BITUMINOUS SURFACE, 10"
- (B) CONCRETE BASE COURSE, 8"
- (C) GRAVEL SHOULDER
- (D) GUARDRAIL

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) HOT-MIX ASPHALT BASE COURSE, 7 1/4" **
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4" **
- (4) HOT-MIX ASPHALT BASE COURSE, 5 1/2"
- (5) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (6) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- (7) TOPSOIL, 6"
- (8) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- (9) HOT-MIX ASPHALT BASE COURSE, 6"
- (10) SUBBASE GRANULAR MATERIAL TYPE B (CA-6), 4"

** IN AREAS WHERE HOT-MIX ASPHALT BAE COURSE WIDENING AND HOT-MIX ASPHALT BAE COURSE WILL BE UTILIZED FOR MAINTENANCE OF TRAFFIC STAGES, THE THICKNESS OF THESE COURSES SHALL BE 9 3/4" TO MATCH ADJACENT PAVEMENT.

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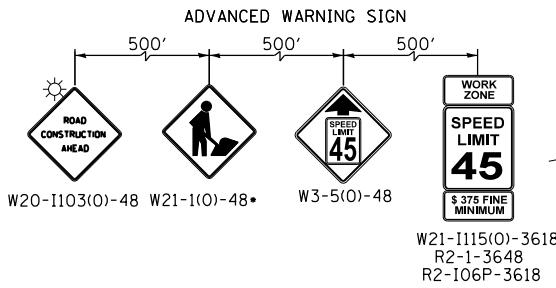
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	43
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				



**BEGIN IMPROVEMENT
STA. 492 + 45**

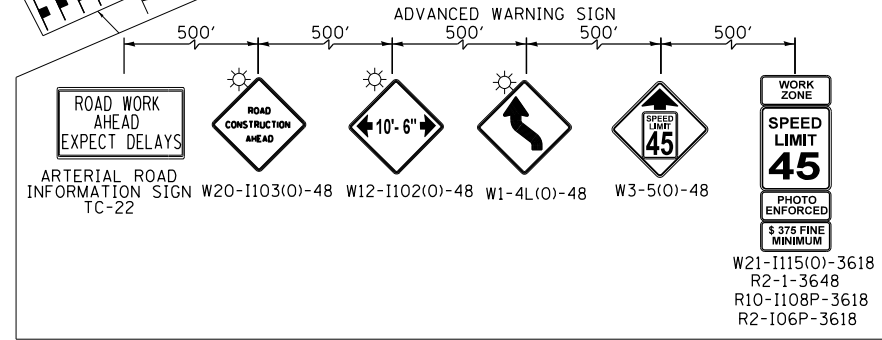
TAPER AT 25:1
STA 491+22.65, 15.30' RT TO
STA 492+19.75, 11.73' RT
TOTAL 96.25'

**END
WORK ZONE
SPEED LIMIT**

G20-1103-6036

TAPER AT 12:1
STA 491+32, 20.06' RT TO
STA 492+20, 12.73' RT
TOTAL 88'

TEMPORARY PAVEMENT
STA 491+30 TO 492+20



TAPER AT 25:1
STA 507+73, 9.3' RT TO STA 508+70, 13.3' RT
TOTAL 96.25'

TAPER AT 12:1
STA 507+73, 10.3' RT TO STA 507+99, 11.0' RT
TOTAL 24'

**END IMPROVEMENT
STA. 507 + 50**

**END
WORK ZONE
SPEED LIMIT**

G20-1103-6036

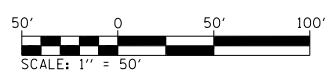
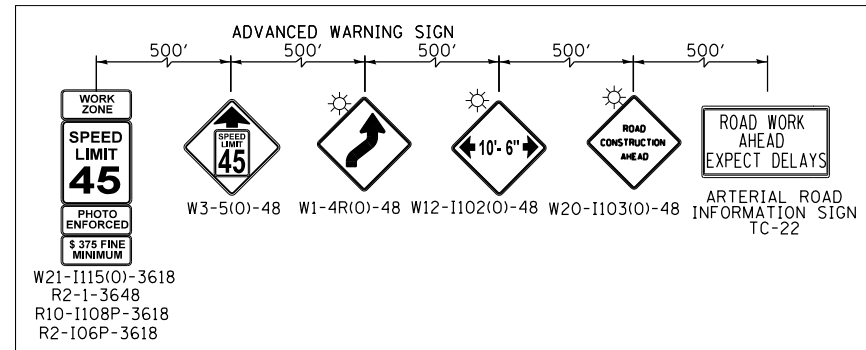
TEMPORARY PAVEMENT
STA 510+28 TO 511+60 (ILLINOIS 47)
STA 307+00 TO 308+44 (WILKE ROAD)

**IMPROVEMENT LIMIT
STA. 197 + 40**

TAPER AT 28:1
STA 496+77, 0.5' LT TO
STA 498+67, 7.3' LT
TOTAL 190'

**IMPROVEMENT LIMIT
STA. 201 + 25**

- ① STA 510+28, 12.8' RT
- ② STA 510+51, 40.0' RT
- ③ STA 510+38, 60.8' RT



LEGEND

- DRUM OR TYPE II BARRICADE WITH STEADY BURNING BI-DIRECTIONAL LIGHT AT 50' C-C SPACING IN TANGENT AND 20' C-C IN TAPERS AND 10' IN CURVES/RADI
- TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- TEMPORARY CONCRETE BARRIER WITH TYPE C MARKERS
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- WORK ZONE
- TEMPORARY PAVEMENT
- SHEETPILING
- DOUBLE VERTICAL PANEL @ 50' C-C SPACING

PLOTDRVL\$

PENTBL\$

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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

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PLOT DATE = 11/3/2017	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
MAINTENANCE OF TRAFFIC - STAGE 1**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	44
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

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184-001397

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS

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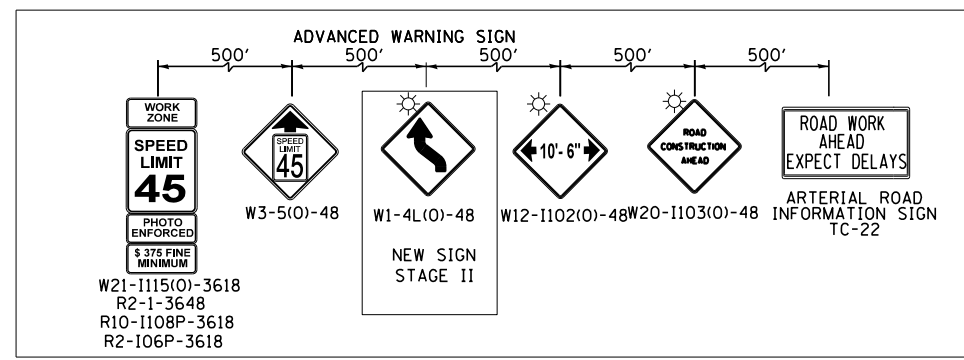
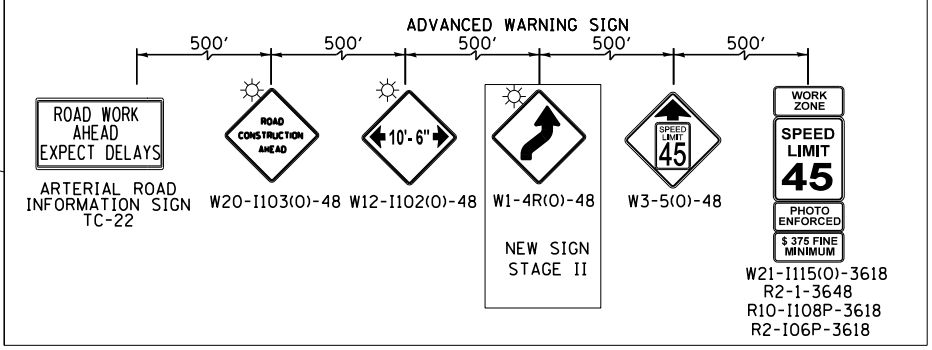
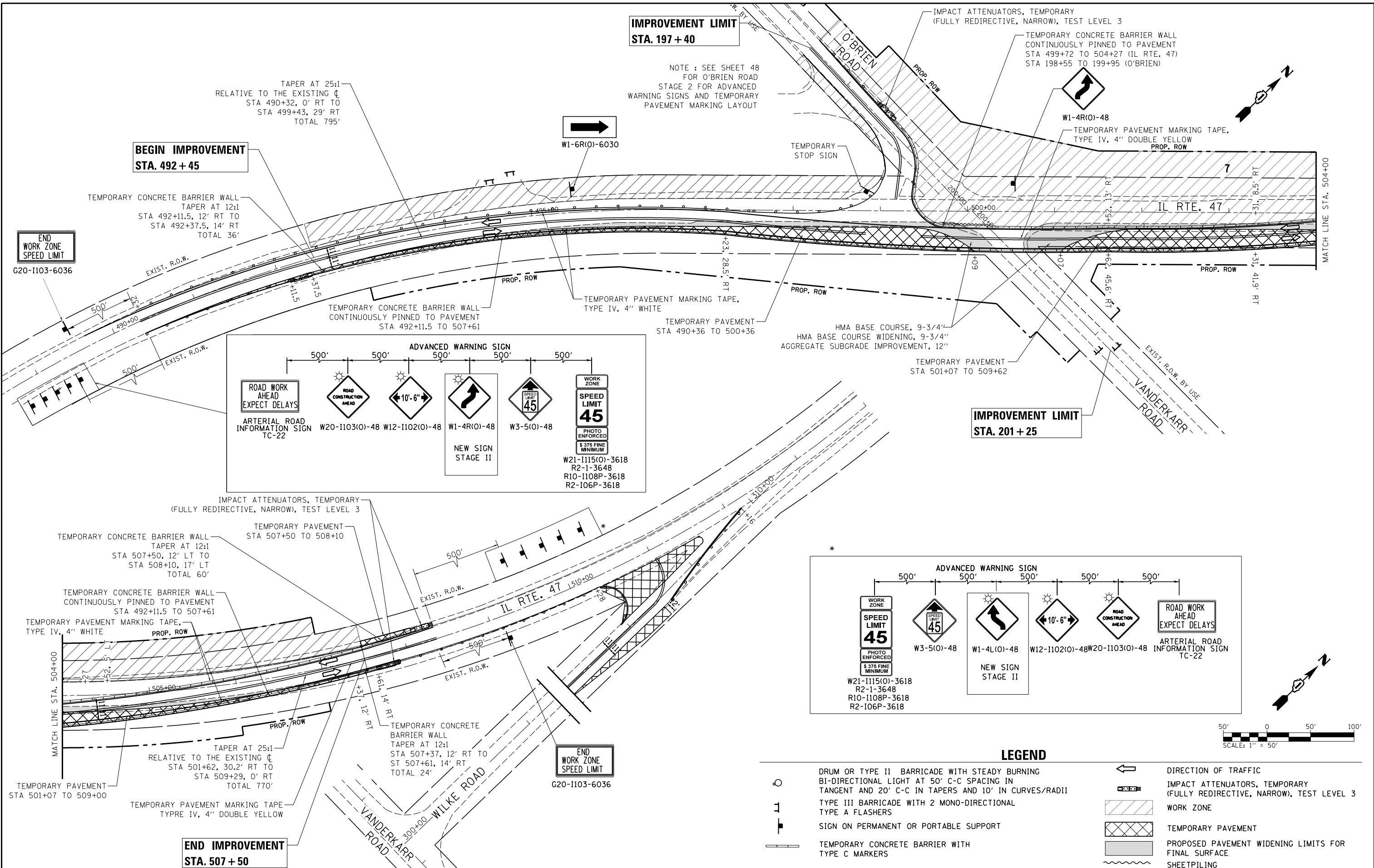
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
MAINTENANCE OF TRAFFIC - STAGE 2

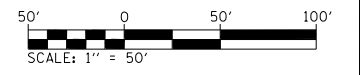
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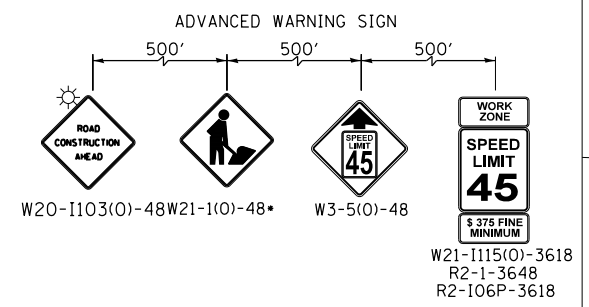
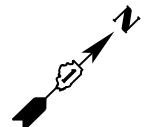
F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
326 104-N McHENRY 106 45
CONTRACT NO. 62C34
ILLINOIS FED. AID PROJECT



LEGEND

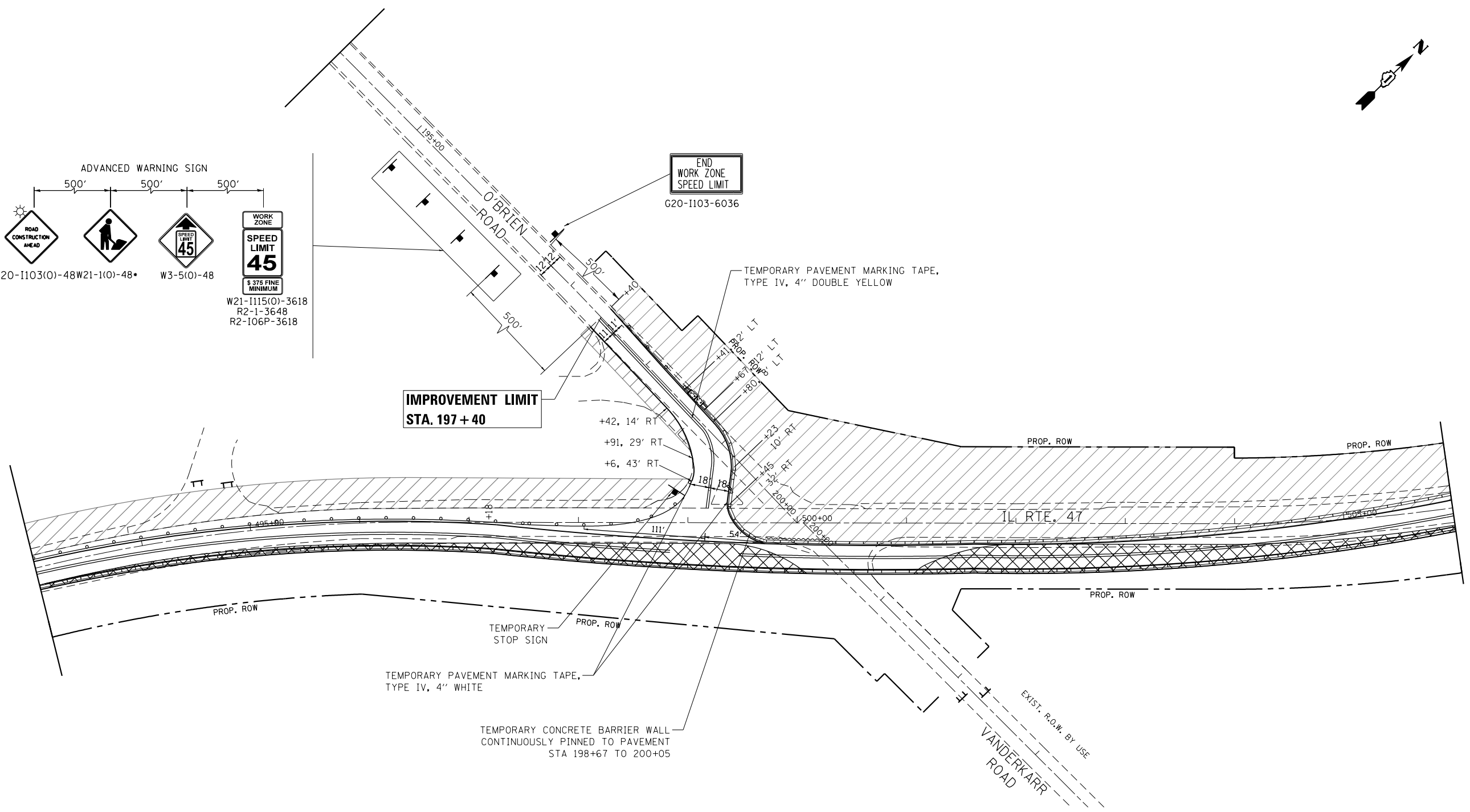
- DRUM OR TYPE II BARRICADE WITH STEADY BURNING
- ← DIRECTION OF TRAFFIC
- BI-DIRECTIONAL LIGHT AT 50' C-C SPACING IN TANGENT AND 20' C-C IN TAPERS AND 10' IN CURVES/RADII
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS
- WORK ZONE
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER WITH TYPE C MARKERS
- PROPOSED PAVEMENT WIDENING LIMITS FOR FINAL SURFACE
- SHEETPIILING





IMPROVEMENT LIMIT
STA. 197 + 40

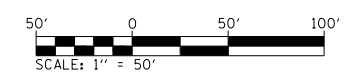
END WORK ZONE SPEED LIMIT
G20-1103-6036



TEMPORARY PAVEMENT MARKING TAPE,
TYPE IV, 4" WHITE

TEMPORARY CONCRETE BARRIER WALL
CONTINUOUSLY PINNED TO PAVEMENT
STA 198+67 TO 200+05

TEMPORARY PAVEMENT MARKING TAPE,
TYPE IV, 4" DOUBLE YELLOW



LEGEND

- DRUM OR TYPE II BARRICADE WITH STEADY BURNING BI-DIRECTIONAL LIGHT AT 50' C-C SPACING IN TANGENT AND 20' C-C IN TAPERS AND 10' IN CURVES/RADII
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS
- WORK ZONE
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER WITH TYPE C MARKERS
- SHEETPILING
- DIRECTION OF TRAFFIC

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CONSULTING ENGINEERS
184-001397

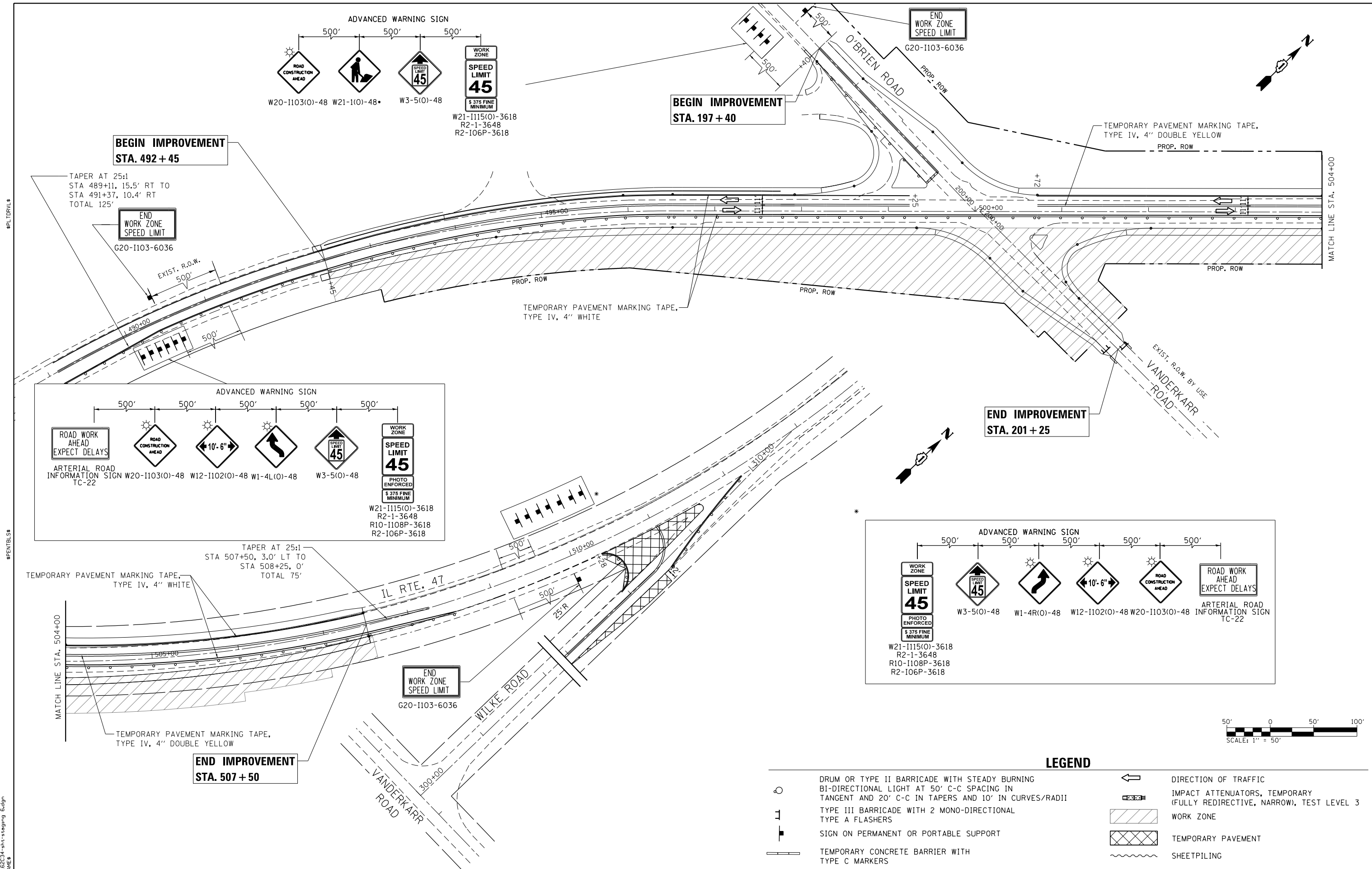
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

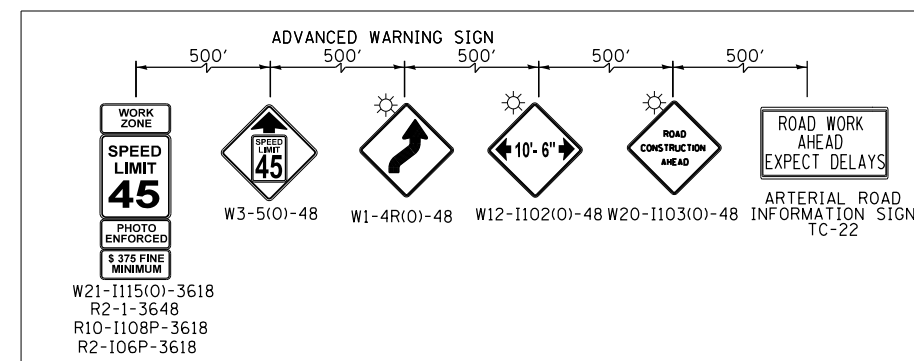
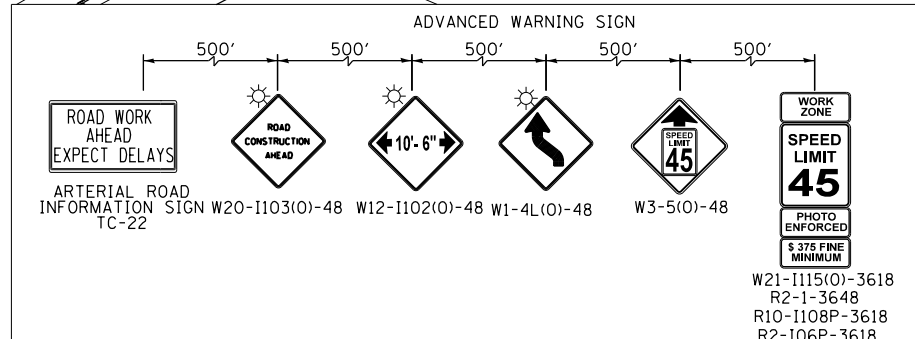
**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
MAINTENANCE OF TRAFFIC - STAGE 2**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	46
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

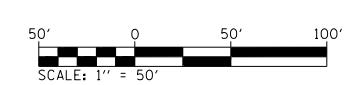


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LEGEND

	DRUM OR TYPE II BARRICADE WITH STEADY BURNING BI-DIRECTIONAL LIGHT AT 50' C-C SPACING IN TANGENT AND 20' C-C IN TAPERS AND 10' IN CURVES/RADII		DIRECTION OF TRAFFIC
	TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS		WORK ZONE
	TYPE A FLASHERS		TEMPORARY PAVEMENT
	TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS		SHEETPILING
	TYPE A FLASHERS		
	TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS		
	TYPE A FLASHERS		
	TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS		
	TYPE A FLASHERS		
	TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS		
	TYPE A FLASHERS		
	TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS		
	TYPE A FLASHERS		



 CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397	USER NAME = jpong	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
MAINTENANCE OF TRAFFIC - STAGE 3

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	47
CONTRACT NO. 62C34			ILLINOIS FED. AID PROJECT	

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL CONTROL MEASURES NECESSARY MUST MEET THE MINIMUM REQUIREMENTS AS DESCRIBED IN THE LATEST EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ADDITIONAL DETAILS AND BMPs ARE ALSO AVAILABLE AND CAN BE UTILIZED AS SHOWN IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL).
2. ALL THE SOIL EROSION AND SEDIMENT CONTROL FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND THE INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER, WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITIES.
5. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION ACTIVITY, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN ONE (1) CALENDAR DAY.
6. THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREA AS THE PROJECT PROGRESSES AND INSTALL EROSION PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE EARTHEN MATERIAL TO THE SATISFACTION OF THE ENGINEER OR AUTHORIZED IDOT PERSONNEL.
7. STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10-FT VERTICALLY OR THE FINISHED SLOPE EQUALS 30-FT, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.
8. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES TO BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS THROUGHOUT THE PROJECT.
9. THE CONTRACTOR'S REPRESENTATIVE HAS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES AND HAVE TAKEN AN ILLINOIS DEPARTMENT OF TRANSPORTATION OR APPROVED EQUAL EROSION AND SEDIMENT CONTROL COURSE. THIS PERSON SHALL HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTION CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN PROVIDED BY THE ENGINEER. THIS INDIVIDUAL AND THE ENGINEER MUST MAKE INSPECTIONS A MINIMUM OF ONCE EVERY SEVEN DAYS OF THE FOLLOWING:
 - A. DISTURBED AREAS OF THE PROJECT SITE THAT HAVE NOT BEEN FULLY STABILIZED.
 - B. STRUCTURAL CONTROL MEASURES (SUCH AS PERIMETER EROSION BARRIER, ETC.)
 - C. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE PROJECT SITE.
 - D. AN ADDITIONAL INSPECTION OF THE ITEMS LISTED ABOVE MUST BE MADE WITHIN 24-HOURS AFTER A 24-HOUR RAINFALL OR EQUIVALENT SNOWFALL EVENT GREATER THAN 0.5-INCH. DURING WINTER MONTHS, ALL MEASURES MUST BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
10. ALL THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON, AS WELL AS OVER THE WINTER SHUTDOWN PERIOD AND OTHER DAYS WHEN THE PROJECT IS CLOSED DOWN FOR A LONGER DURATION. ANY CONTROL MEASURES FILLED MORE THAN 75% MUST BE CLEANED AND RESET AND THESE SPOILS REMOVED TO AN APPROVED SITE.
11. SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND ACTIVE DRAINAGE PATHS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE. IMMEDIATELY AFTER THE FINAL SHAPING OF THE STOCKPILE, THE TOPSOIL WILL BE STABILIZED IN ACCORDANCE WITH THE METHOD APPROVED BY IDOT. THE CONTRACTOR WILL PROVIDE ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.
12. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR, THE COST OF THE CONTROLS WILL BE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER, THE DEPARTMENT WILL ASSUME THE COST OF INSTALLING AND MAINTAINING THE CONTROLS.
13. IF AND/OR WHEN THE CONTRACTOR REQUESTS CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH 25 FEET AWAY FROM THE SHOULDER OF THE ROAD PROVIDED THE FOLLOWING CONDITIONS ARE MET:
 - A. ALL AREAS BEING STABILIZED ARE 1:3 SLOPES OR FLATTER
 - B. THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH MULCH METHOD 3.
 - C. ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
14. TOPSOIL PLACEMENT: TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE NOR ON TEMPORARY STEEP SLOPES.
15. IN AREAS WHERE A PERMANENT VEGETATIVE COVER IS PRACTICABLE AND INCLUDED IN THE CONTRACT DOCUMENTS, A SPECIAL EFFORT SHOULD BE MADE TO ESTABLISH A COVER AS SOON AS A DISTURBED AREA IS BROUGHT TO FINAL GRADE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
16. THE CONTRACTOR'S REPRESENTATIVE AND THE ENGINEER MUST KEEP A WRITTEN REPORT SUMMARIZING THE REQUIRED INSPECTIONS. THE REPORTS MUST BE KEPT AT THE SITE DURING CONSTRUCTION. THE REPORT MUST ALSO BE RETAINED FOR THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED.
17. ANY SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING CONTROL MEASURE PRIOR TO RELEASE FROM THE PROJECT SITE.
18. NO WORK IS ALLOWED BEYOND THE PERMITTED AREA. ANY WORK WITHIN A CREEK OR DITCH CAPABLE OF CONVEYING WATER MUST BE CONDUCTED IN THE DRY. PROVISIONS MUST BE MADE TO BYPASS PUMP OR DEWATER ANY AREAS IN WHICH WORK WILL BE CONDUCTED. IN HIGH FLOW CHANNELS WHERE DEWATERING IS NOT POSSIBLE OR PRACTICAL, SILT FENCE OR SEDIMENT CURTAINS MAY BE INSTALLED PARALLEL TO THE STREAM BANK. IN NO CASE WILL THE CURTAINS BE INSTALLED PERPENDICULAR TO THE FLOW. DEWATERING MUST BE DISCHARGED TO A STABLE, NON-ERODIBLE SURFACE AND IN-STREAM WORK BARRIERS MUST BE COMPOSED OF NON-ERODIBLE MATERIAL.
19. SEEDING USAGE

CLASS 2A:
USED ON FINAL DISTURBED CONSTRUCTION AREAS INDICATED ON THE PLANS.

TEMPORARY EROSION CONTROL SEEDING:
USED IN AREAS REQUIRING SHORT TERM TEMPORARY SEEDING DURING CONSTRUCTION.
20. THE CONTRACTOR MUST COOPERATE WITH THE ENGINEER AND HIS/HER REPRESENTATIVE WHO WILL MAKE SITE VISITS TO REVIEW THE COMPLIANCE OF THE PLANS IN THE FIELD AND AUDIT IF NECESSARY. THE CONTRACTOR MUST PREPARE THE LOGS AND RECORDS WHEN REQUIRED AND SUBMIT TO IDOT AND/OR APPROPRIATE AGENCIES.
21. THE INSTALLATION, MAINTENANCE, REMOVAL AND RESTORATION OF THE AREA DISTURBED BY THE PLACEMENT OF THE PERIMETER EROSION BARRIER ARE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER. AFTER ALL PERIMETER EROSION BARRIER IS REMOVED, THE AREAS DAMAGED BY THE PERIMETER EROSION CONTROL BARRIER MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
22. STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN ONE (1) DAY AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF FOURTEEN (14) OR MORE CALENDAR DAYS.

SOIL PROTECTION SCHEDULE:

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PERMANENT SEEDING						→					→	
DORMANT SEEDING	→		→								→	→
TEMPORARY SEEDING										→		
EROSION BLANKET / HYDROMULCH											→	

SOIL EROSION AND SEDIMENT CONTROL STRATEGY:

1. ERECT PERIMETER EROSION BARRIERS AS SHOWN ON THE PLANS.
2. ESTABLISH STABILIZED CONSTRUCTION ENTRANCES.
3. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION.
4. TEMPORARY STABILIZATION OF EACH STAGE SHOULD BE COMPLETED BEFORE WORK BEGINS ON SUBSEQUENT STAGES.
5. STABILIZE DISTURBED AREAS WITH TEMPORARY EROSION CONTROL MEASURES. USE THE PERMANENT SEEDING WITH EROSION CONTROL BLANKET AS SHOWN ON THE PLANS FOR PERMANENT STABILIZATION.
6. WHEN THE PERMANENT STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

HIGHWAY STANDARD

STD. NO. TITLE
280001 TEMPORARY EROSION CONTROL SYSTEMS

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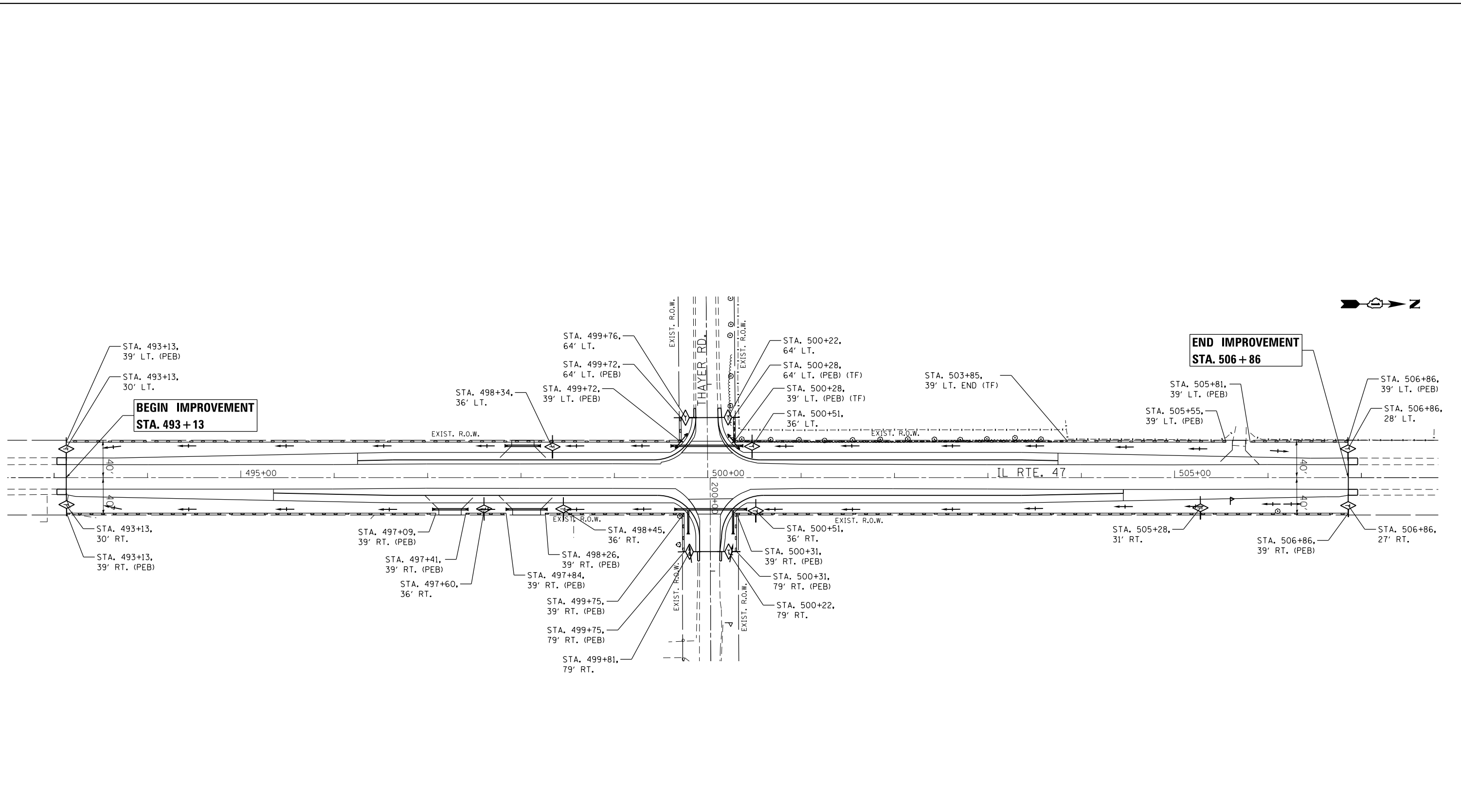
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
EROSION AND SEDIMENT CONTROL NOTES**



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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C34	

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LEGEND

-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER (PEB)







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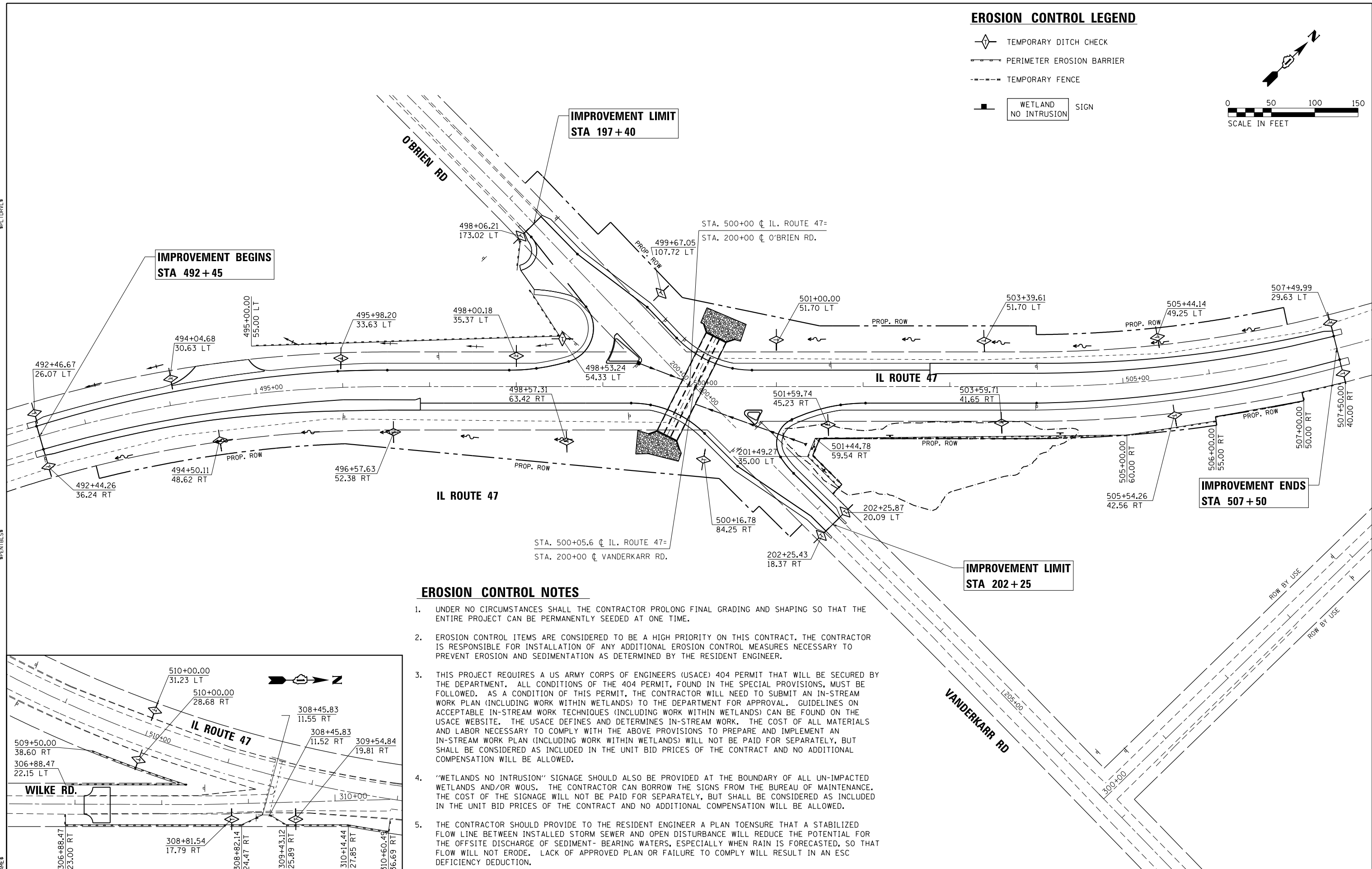
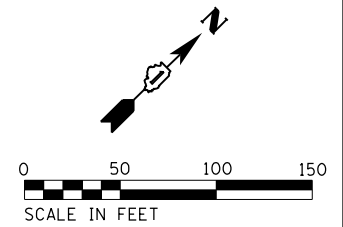
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 47 AT THAYER ROAD EROSION AND SEDIMENT CONTROL PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	49
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

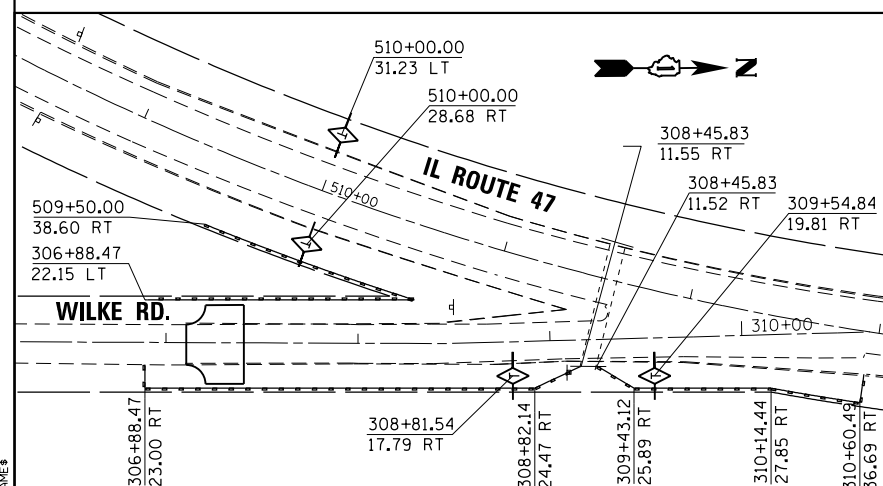
EROSION CONTROL LEGEND

-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY FENCE
-  WETLAND NO INTRUSION SIGN



EROSION CONTROL NOTES

1. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDING AT ONE TIME.
2. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.
3. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. "WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE. THE COST OF THE SIGNAGE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.



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 CONSULTING ENGINEERS
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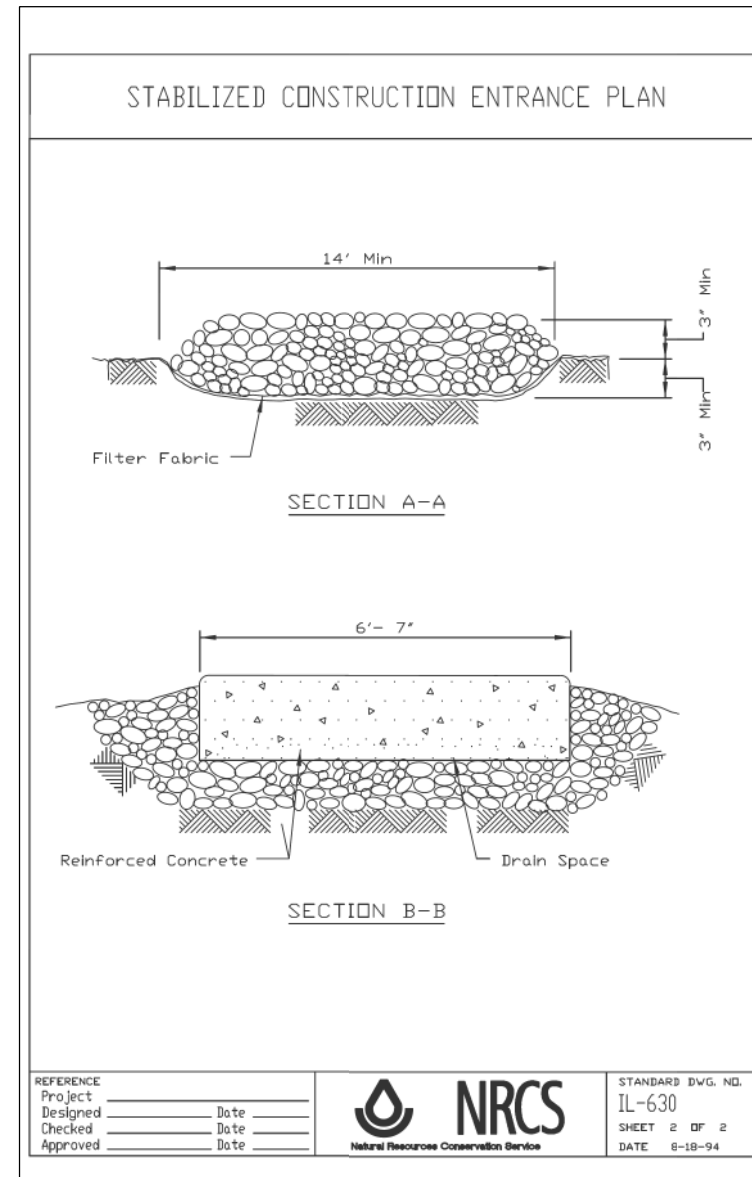
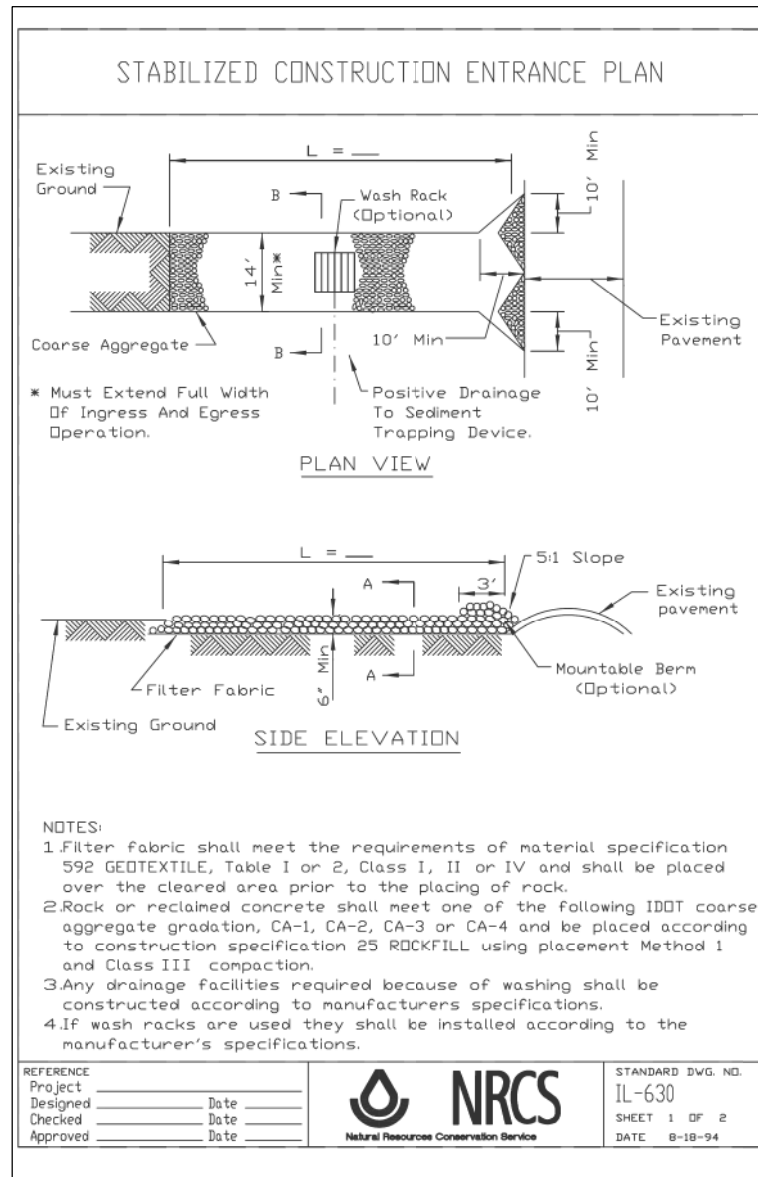
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STATE OF ILLINOIS
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ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS			
EROSION AND SEDIMENT CONTROL PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 326	SECTION 104-N	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 50
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
EROSION CONTROL DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	51
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

DRAINAGE STRUCTURE SCHEDULE				
STRUCTURE NO.	DESCRIPTION	STATION	OFFSET	INVERT EL.
1	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 18"	500+38.10	34.00' LT	875.58
2	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 18"	499+60.10	34.00' LT	875.19
3	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 18"	500+42.10	34.00' RT	875.44
4	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 18"	499+64.10	34.00' RT	875.21
*5	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 15"	*200+60.80	*24.30' LT	876.50
*6	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 15"	*200+60.70	*23.60' RT	876.50
7	REINFORCED CONCRETE PIPE TEE, 18" PIPE WITH 15" RISER	500+27.10	34.00' RT	875.40
8	REINFORCED CONCRETE PIPE TEE, 18" PIPE WITH 15" RISER	499+79.10	34.00' RT	875.25
9	SLOPED METAL END SECTION W/GRATE, STD 542411, 18" DIA, 1:4 SLOPE	498+21.40	34.00' LT	874.62
10	SLOPED METAL END SECTION W/GRATE, STD 542411, 18" DIA, 1:4 SLOPE	497+82.40	34.00' LT	874.46
11	SLOPED METAL END SECTION W/GRATE, STD 542411, 18" DIA, 1:4 SLOPE	498+28.60	34.00' RT	874.64
12	SLOPED METAL END SECTION W/GRATE, STD 542411, 18" DIA, 1:4 SLOPE	497+83.60	34.00' RT	874.46
13	SLOPED METAL END SECTION W/GRATE, STD 542411, 18" DIA, 1:4 SLOPE	497+43.90	34.00' RT	874.31
14	SLOPED METAL END SECTION W/GRATE, STD 542411, 18" DIA, 1:4 SLOPE	497+04.90	34.00' RT	874.23

* STATION AND OFFSET ARE SHOWN ALONG THAYER ROAD ALIGNMENT

PIPE CULVERT SCHEDULE									
PIPE NO.	FROM STR.	TO STR.	LENGTH (FT)	DIA. (IN)	PIPE TYPE	SLOPE %	TB (CY)	UPSTREAM INVERT	DOWNSTREAM INVERT
1	1	2	66	18	C-A T1	0.50	11	875.58	875.19
2	3	7	6	18	C-A T1	0.29	1	875.44	875.40
3	7	8	42	18	C-A T1	0.29	7	875.40	875.25
4	8	4	6	18	C-A T1	0.29	1	875.25	875.21
5	5	7	18	15	C-A T1	3.73	3	876.50	875.53
6	6	8	18	15	C-A T1	4.31	3	876.50	875.38
7	9	10	34	18	C-D T1	0.40	6	874.31	874.23
8	11	12	40	18	C-D T1	0.40	7	874.64	874.46
9	13	14	34	18	C-D T1	0.20	6	874.31	874.23
							45		

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DRAWN - JN	REVISIONS -	
PLOT SCALE = 100.0026' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 10/13/2017	DATE - 10/13/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

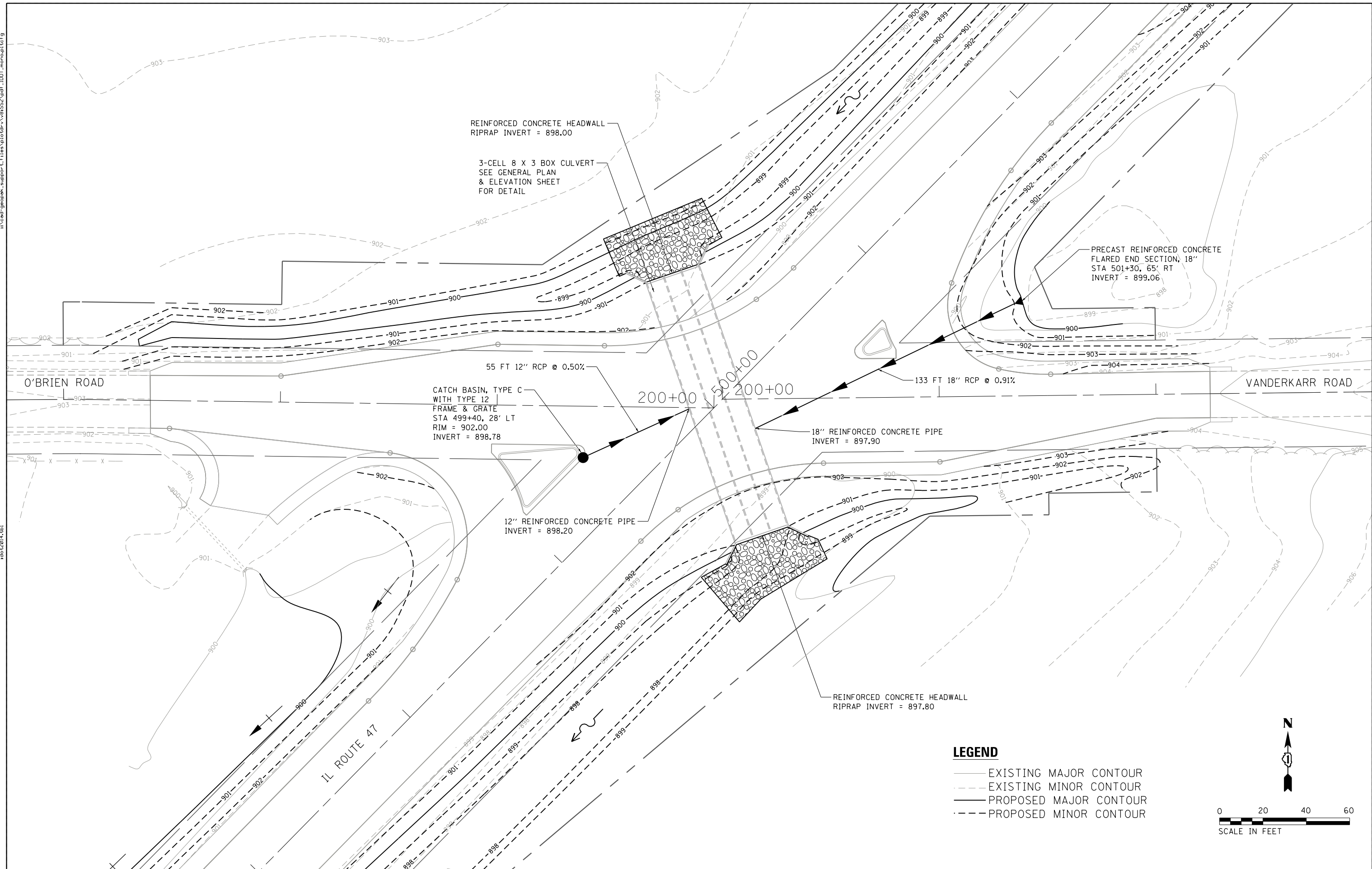
ILLINOIS ROUTE 47 AT THAYER ROAD DRAINAGE SCHEDULES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	53
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

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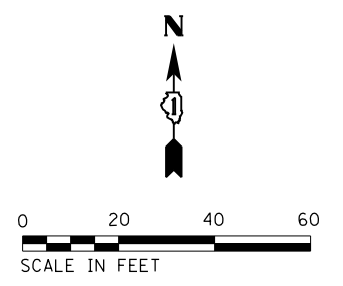
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LEGEND

- EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- - - PROPOSED MINOR CONTOUR



CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = dwoznarski	DESIGNED -	REVISED -
PLOT SCALE = 48.000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/12/2017	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN / VANDERKARR ROADS
DRAINAGE PLAN**

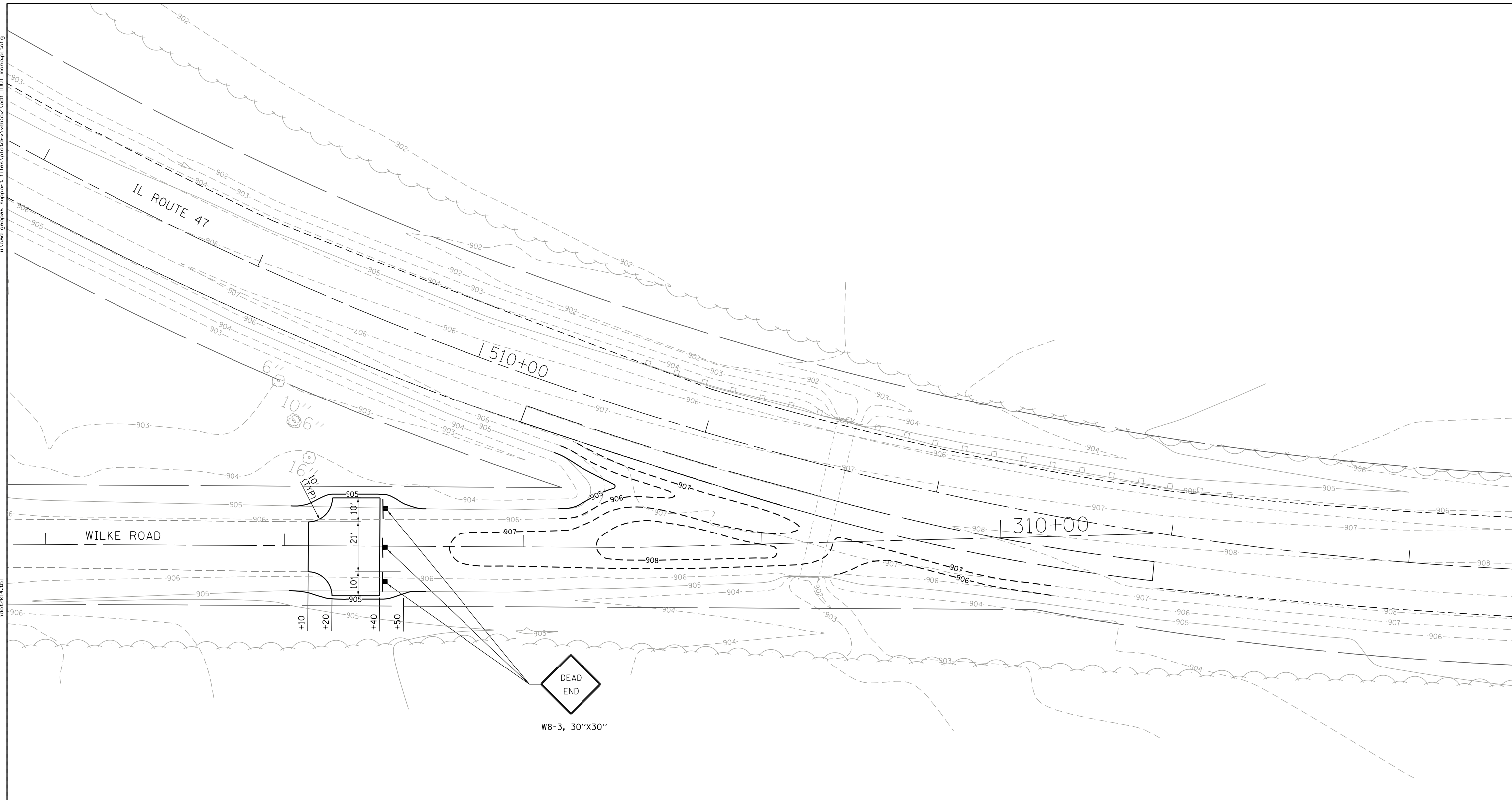
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 104-N	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 54
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

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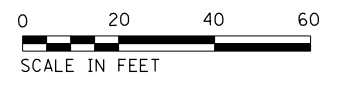
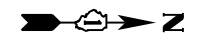
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LEGEND

- EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- - - PROPOSED MINOR CONTOUR



CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = dwoznarski	DESIGNED -	REVISED -
PLOT SCALE = 48.000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/12/2017	CHECKED -	REVISED -
	DATE -	REVISED -

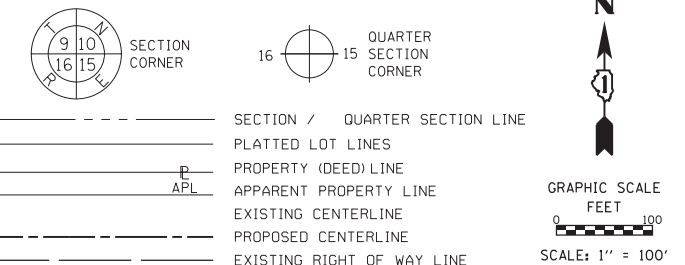
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
WILKE ROAD GRADING PLAN**

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

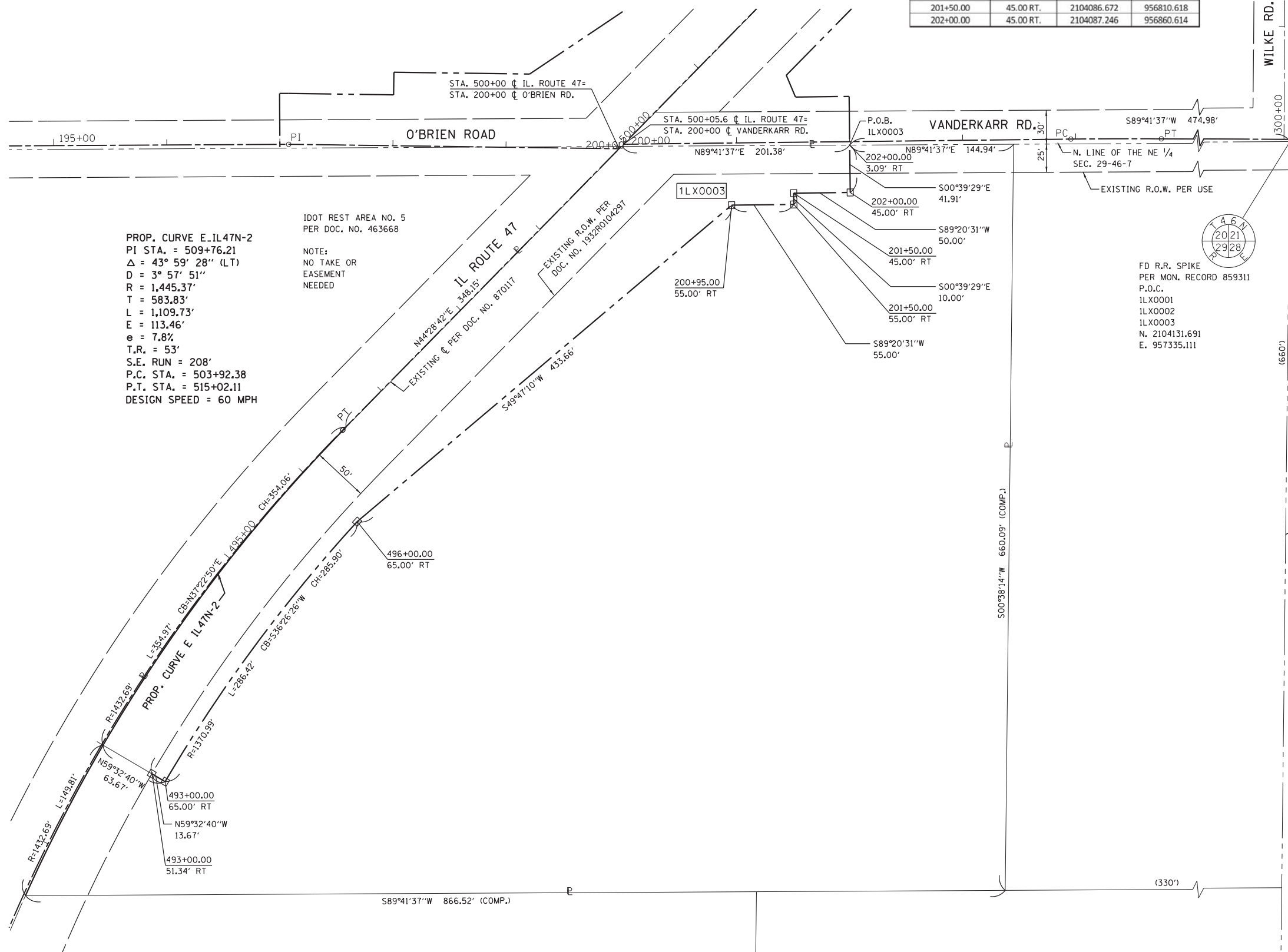
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	55
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

LEGEND



PARCEL NUMBER	TOTAL HOLDING	AREA TAKEN	AREA PREVIOUSLY USED	REMAINING AREA	EASEMENT AREA	PIN
1LX0003	9.711 Ac±	1.416 Ac±	0.911 Ac±	8.295 Ac±	NA	03-29-200-004

PROJECT COORDINATES ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)			
493+00	51.34 RT.	2103572.978	956242.975
493+00	65.00 RT.	2103566.051	956254.755
496+00	65.00 RT.	2103796.050	956424.576
200+95.00	55.00 RT.	2104076.041	956755.736
201+50.00	55.00 RT.	2104076.673	956810.733
201+50.00	45.00 RT.	2104086.672	956810.618
202+00.00	45.00 RT.	2104087.246	956860.614



PROP. CURVE E. IL 47N-2
 PI STA. = 509+76.21
 $\Delta = 43^\circ 59' 28''$ (LT)
 $D = 3^\circ 57' 51''$
 $R = 1,445.37'$
 $T = 583.83'$
 $L = 1,109.73'$
 $E = 113.46'$
 $e = 7.8\%$
 $T.R. = 53'$
 $S.E. RUN = 208'$
 $P.C. STA. = 503+92.38$
 $P.T. STA. = 515+02.11$
 DESIGN SPEED = 60 MPH

IDOT REST AREA NO. 5
 PER DOC. NO. 463668
 NOTE:
 NO TAKE OR
 EASEMENT
 NEEDED

FD R.R. SPIKE
 PER MON. RECORD 859311
 P.O.C.
 1LX0001
 1LX0002
 1LX0003
 N. 2104131.691
 E. 957335.111

- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
 COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, ERIC HAGLUND, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 20 AND 29 TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS ____ DAY OF _____ 20__ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3446
 LICENSE EXPIRATION DATE: NOV. 30, 2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, FOR THAT PART SHOWN AS PROPOSED RIGHT-OF-WAY.

FIELD WORK COMPLETED 01/29/2016.



HAMPTON, LENZINI AND RENWICK, INC.
 CIVIL ENGINEERS • STRUCTURAL ENGINEERS • LAND SURVEYORS
HLR
 380 SHEPARD DRIVE
 ELGIN, ILLINOIS 60123
 847.697.6700 www.hlrengineering.com
 184.000959
 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION
 JOB: 15.0410.230

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 47

LIMITS: O'BRIEN/VANDERKARR & THAYER RD. COUNTY: MCHENRY
 SECTION: _____ TO STA. _____ JOB NO.: R-91-029-13
 STA. _____ TO STA. _____
 SCALE: 1" = 50' SHEET 3 OF 3 SHEETS

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196

ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
 BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
 ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.9999382645.

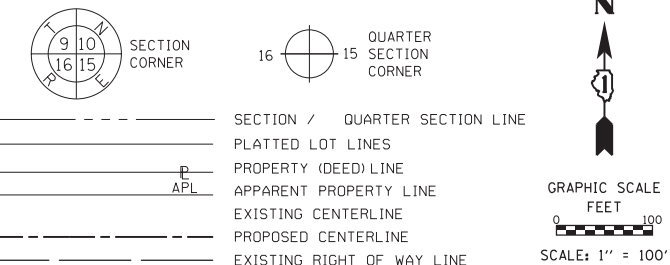
PART OF SE 1/4 SECTION 20 & NE 1/4 SECTION 29, TWP. 46 N., R. 7 E. OF THE 3RD. P.M., IN MCHENRY COUNTY, ILLINOIS.

LEGEND

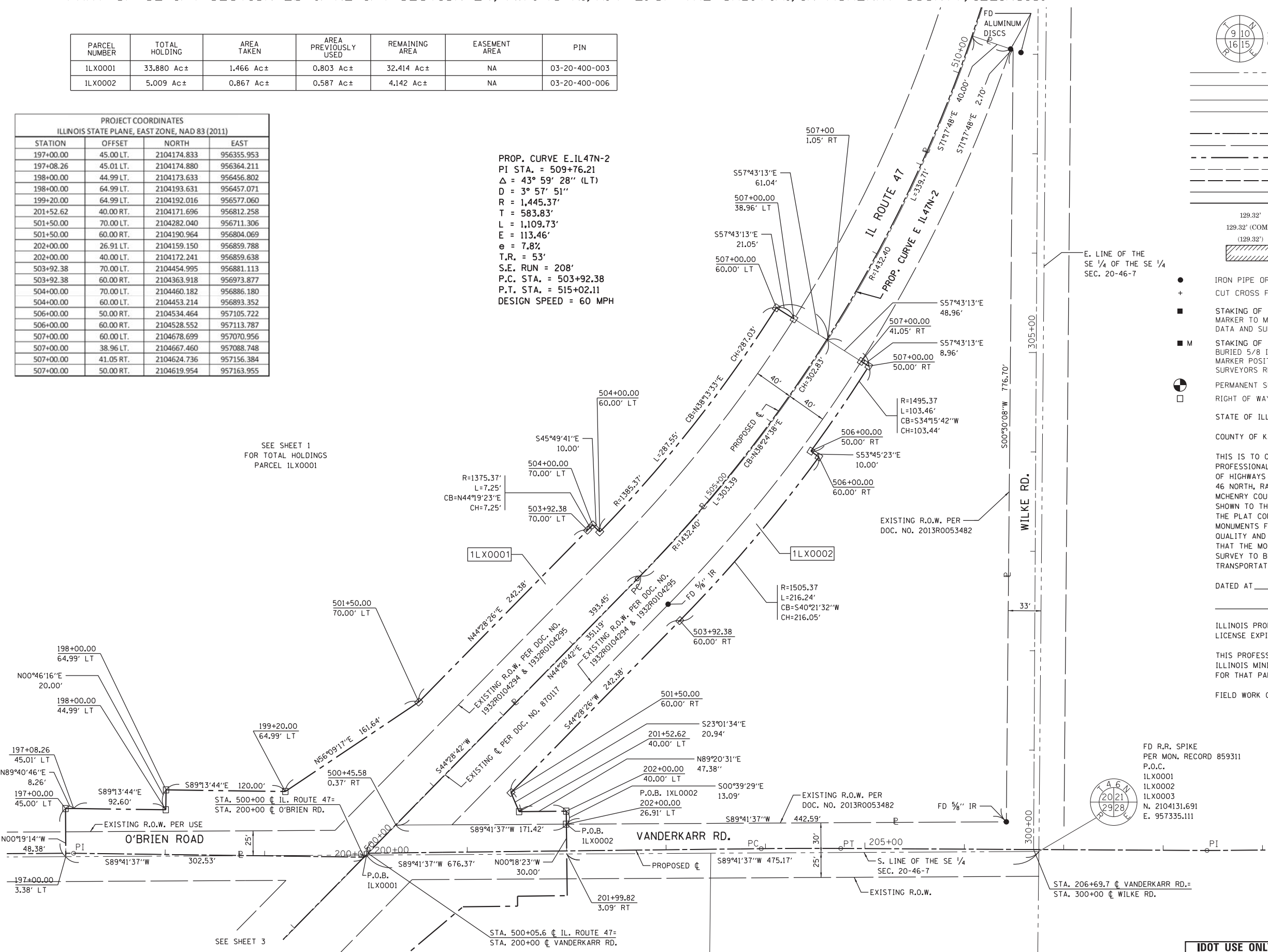
PARCEL NUMBER	TOTAL HOLDING	AREA TAKEN	AREA PREVIOUSLY USED	REMAINING AREA	EASEMENT AREA	PIN
1LX0001	33.880 Ac±	1.466 Ac±	0.803 Ac±	32.414 Ac±	NA	03-20-400-003
1LX0002	5.009 Ac±	0.867 Ac±	0.587 Ac±	4.142 Ac±	NA	03-20-400-006

PROJECT COORDINATES ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)			
STATION	OFFSET	NORTH	EAST
197+00.00	45.00 LT.	2104174.833	956355.953
197+08.26	45.01 LT.	2104174.880	956364.211
198+00.00	44.99 LT.	2104173.633	956456.802
198+00.00	64.99 LT.	2104193.631	956457.071
199+20.00	64.99 LT.	2104192.016	956577.060
201+52.62	40.00 RT.	2104171.696	956812.258
501+50.00	70.00 LT.	2104282.040	956711.306
501+50.00	60.00 RT.	2104190.964	956804.069
202+00.00	26.91 LT.	2104159.150	956859.788
202+00.00	40.00 LT.	2104172.241	956859.638
503+92.38	70.00 LT.	2104454.995	956881.113
503+92.38	60.00 RT.	2104363.918	956973.877
504+00.00	70.00 LT.	2104460.182	956886.180
504+00.00	60.00 LT.	2104453.214	956893.352
506+00.00	50.00 RT.	2104534.464	957105.722
506+00.00	60.00 RT.	2104528.552	957113.787
507+00.00	60.00 LT.	2104678.699	957070.956
507+00.00	38.96 LT.	2104667.460	957088.748
507+00.00	41.05 RT.	2104624.736	957156.384
507+00.00	50.00 RT.	2104619.954	957163.955

PROP. CURVE E. IL47N-2
 PI STA. = 509+76.21
 $\Delta = 43^\circ 59' 28''$ (LT)
 $D = 3^\circ 57' 51''$
 $R = 1,445.37'$
 $T = 583.83'$
 $L = 1,109.73'$
 $E = 113.46'$
 $e = 7.8\%$
 $T.R. = 53'$
 $S.E. RUN = 208'$
 $P.C. STA. = 503+92.38$
 $P.T. STA. = 515+02.11$
 $DESIGN SPEED = 60 MPH$



SEE SHEET 1
FOR TOTAL HOLDINGS
PARCEL 1LX0001



- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
 COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, ERIC HAGLUND, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 20 AND 29 TOWNSHIP 46 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS ____ DAY OF _____ 20__ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3446
 LICENSE EXPIRATION DATE: NOV. 30, 2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, FOR THAT PART SHOWN AS PROPOSED RIGHT-OF-WAY.

FIELD WORK COMPLETED 01/29/2016.



FD R.R. SPIKE
 PER MON. RECORD 859311
 P.O.C.
 1LX0001
 1LX0002
 1LX0003
 N. 2104131.691
 E. 957335.111

HAMPTON, LENZINI AND RENWICK, INC.
 CIVIL ENGINEERS- STRUCTURAL ENGINEERS- LAND SURVEYORS
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 184.000959
 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION
 JOB: 15.0410.230

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 47

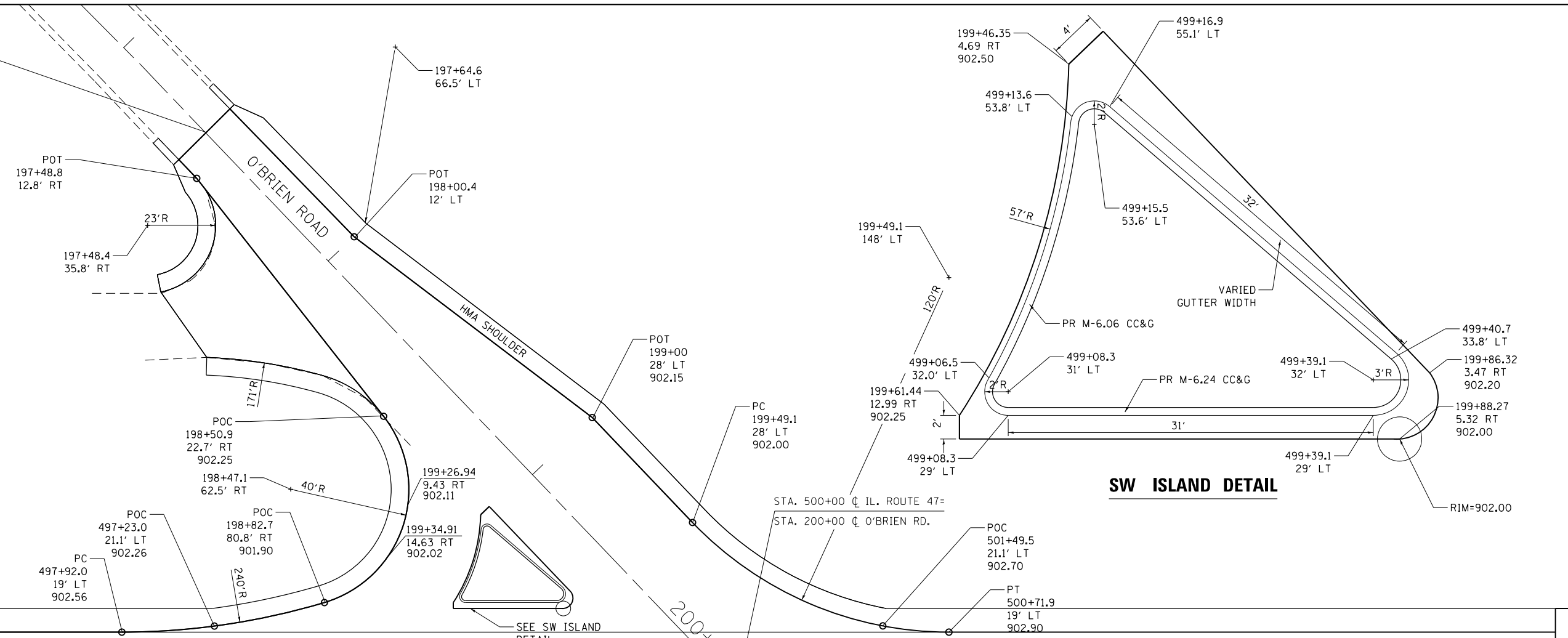
LIMITS: O'BRIEN/VANDERKARR & THAYER RD. COUNTY: MCHENRY
 SECTION: _____ JOB NO.: R-91-029-13
 STA. _____ TO STA. _____
 SCALE: 1" = 100' SHEET 2 OF 3 SHEETS

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196

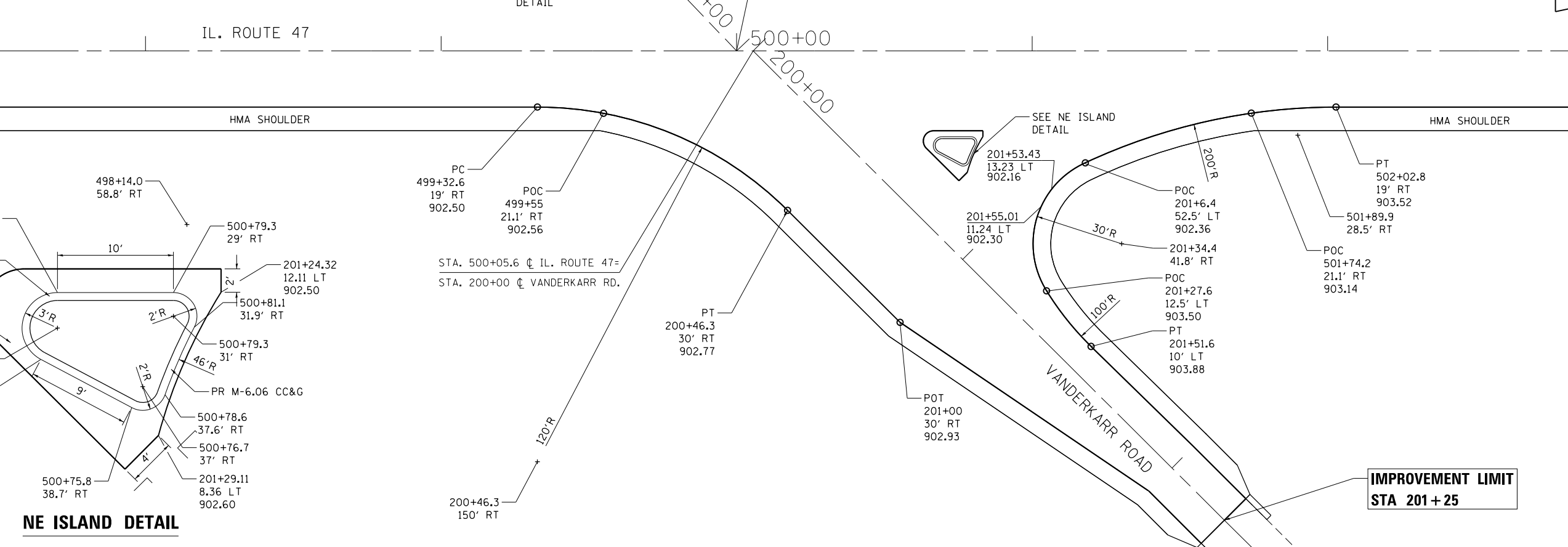
ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
 BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) GRID.
 ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.9999382645.

REVISION DATE: / / REVISION MADE BY:

**IMPROVEMENT LIMIT
STA 197+40**

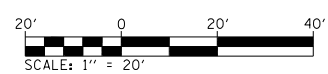


SW ISLAND DETAIL



NE ISLAND DETAIL

**IMPROVEMENT LIMIT
STA 201+25**



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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = jpong	DESIGNED -	REVISED -
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PLOT DATE = 10/12/2017	CHECKED -	REVISED -
	DATE -	REVISED -

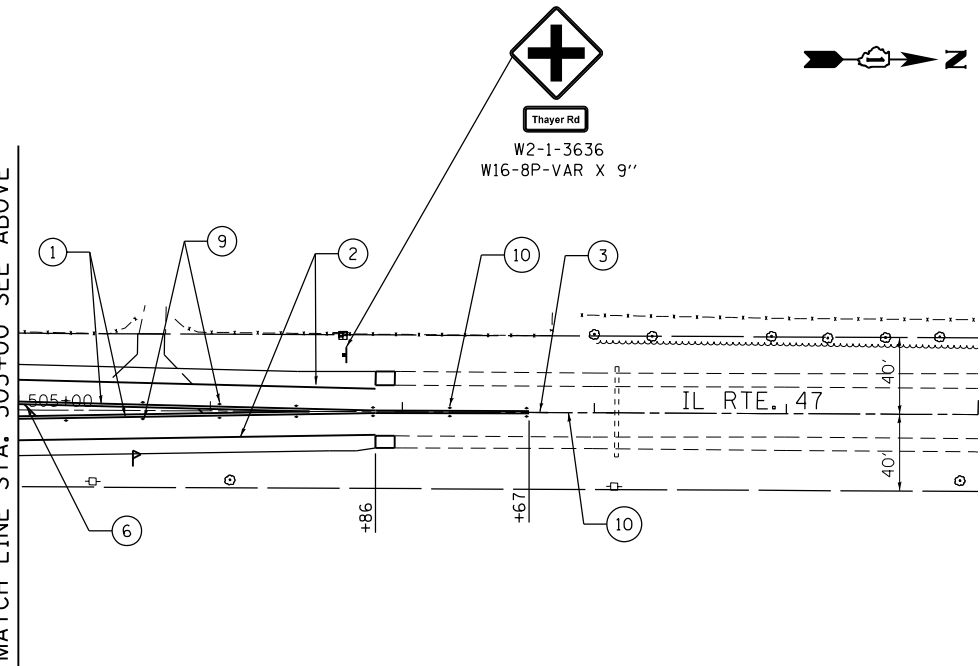
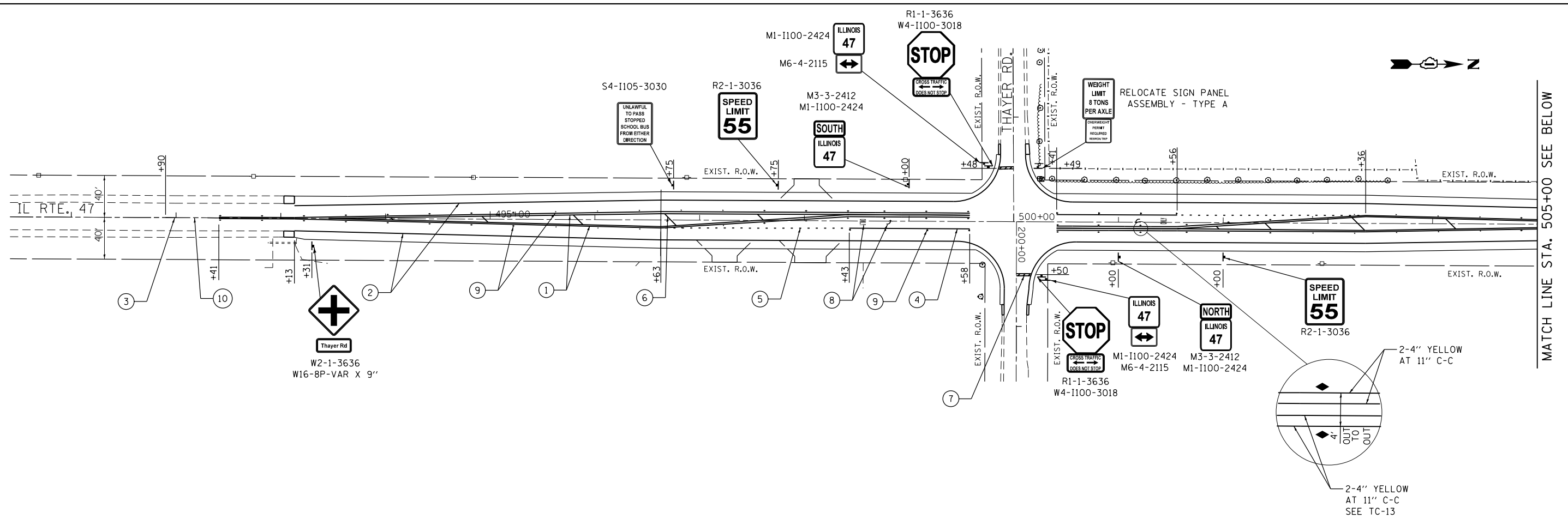
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
INTERSECTION PLAN**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 104-N	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 58
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

FILE NAME = O:\Engineering\Live\Projects\130234 IDOT DUR Chest\MO 1\CAADD\CAOD Sheets\Civil\130234-Sht-Pmnt-Marking.dgn



PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
STA. 492+41 TO STA. 499+58
STA. 500+41 TO STA. 507+67
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
STA. 493+13 TO STA. 499+64
STA. 500+41 TO STA. 506+86
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH, 10' LINE, 30' SPACE)
STA. 491+90 TO STA. 492+41
STA. 507+67 TO STA. 508+10
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE)
STA. 498+43 TO STA. 499+58
STA. 500+41 TO STA. 501+56
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DASH LINES, 2' LINE, 6' SPACE)
STA. 496+63 TO STA. 498+43
STA. 501+56 TO STA. 503+36
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS),
SEE DISTRICT DETAIL TC-13 FOR PROPER SPACING
STA. 493+13 TO STA. 498+43
STA. 501+56 TO STA. 506+86
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)
STA. 199+48, RT
STA. 200+50, LT
- ⑧ THERMOPLASTIC PAVEMENT MARKING-LETTERS AND SYMBOLS (WHITE)
STA. 498+53
STA. 501+46
- ⑨ RAISED REFLECTIVE PAVEMENT MARKER
2 WAY AMBER - STA. 492+41 TO STA. 495+12
STA. 497+45 TO STA. 499+58
STA. 500+41 TO STA. 502+53
STA. 504+87 TO STA. 507+67
1 WAY AMBER - STA. 495+12 TO STA. 497+45
STA. 502+53 TO STA. 504+87
1 WAY CRYSTAL MARKER - STA. 498+43 TO 499+58
STA. 500+41 TO 501+56
- ⑩ REPLACEMENT REFLECTOR
2 WAY AMBER - STA. 491+90 TO STA. 492+41
STA. 507+67 TO STA. 508+10



USER NAME = johnn	DESIGNED - PP	REVISED -
DRAWN - PP	REVISIONS -	
PLOT SCALE = 100.0000' / 1" =	CHECKED - TGM	REVISED -
PLOT DATE = 10/13/2017	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
PAVEMENT MARKING & SIGNING**

SCALE: SHEET OF SHEETS STA. TO STA.

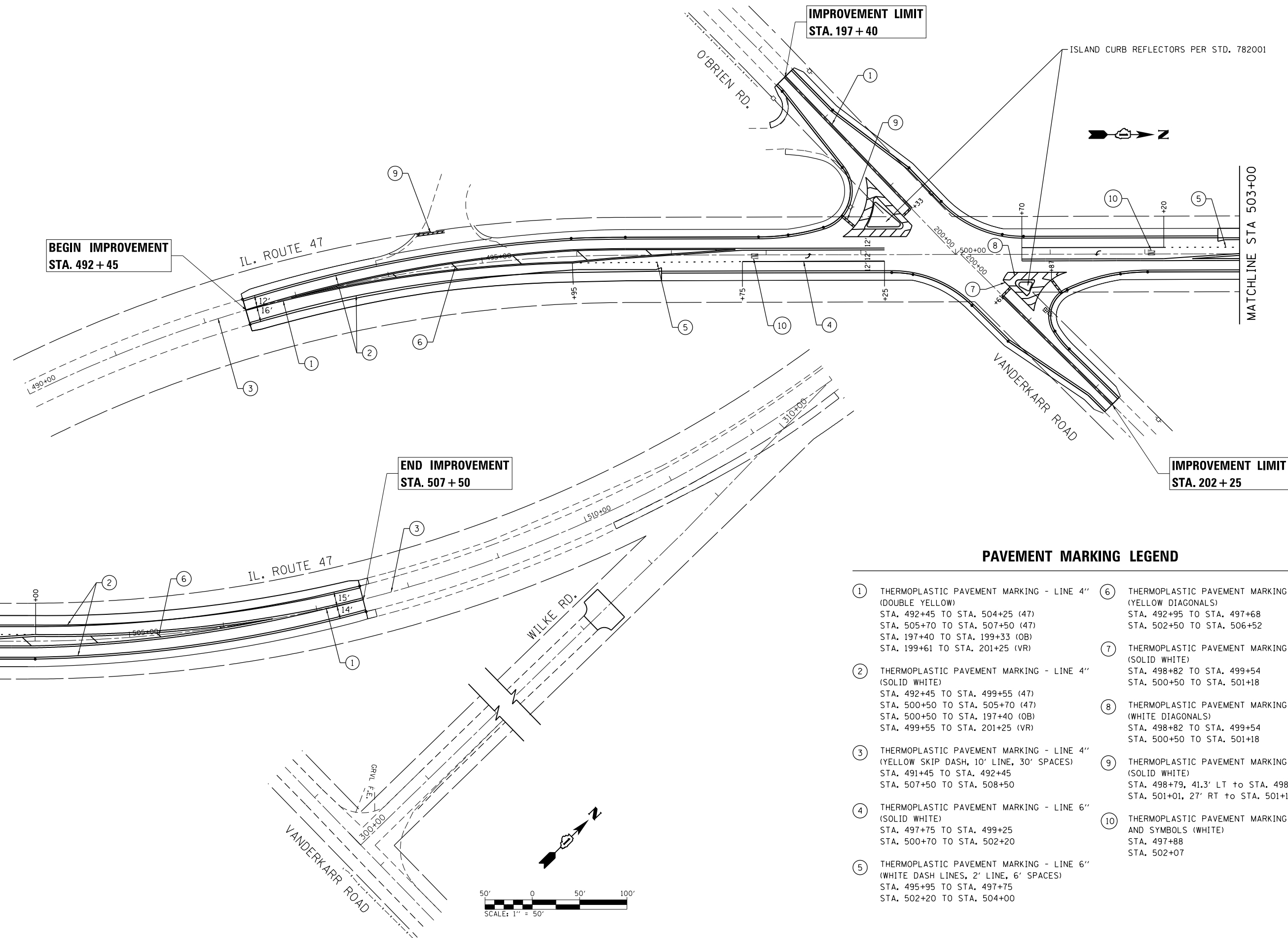
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	MCHENRY	106	59
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 505+00 SEE BELOW

\$PLOTDRVL\$

\$PENTBLS\$

FILE NAME = D:\62C34\11\1\pml.dgn
\$SYSPRINTER.NAME\$



PAVEMENT MARKING LEGEND

- | | |
|---|---|
| <p>① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
STA. 492+45 TO STA. 504+25 (47)
STA. 505+70 TO STA. 507+50 (47)
STA. 197+40 TO STA. 199+33 (OB)
STA. 199+61 TO STA. 201+25 (VR)</p> <p>② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
STA. 492+45 TO STA. 499+55 (47)
STA. 500+50 TO STA. 505+70 (47)
STA. 500+50 TO STA. 197+40 (OB)
STA. 499+55 TO STA. 201+25 (VR)</p> <p>③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH, 10' LINE, 30' SPACES)
STA. 491+45 TO STA. 492+45
STA. 507+50 TO STA. 508+50</p> <p>④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE)
STA. 497+75 TO STA. 499+25
STA. 500+70 TO STA. 502+20</p> <p>⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DASH LINES, 2' LINE, 6' SPACES)
STA. 495+95 TO STA. 497+75
STA. 502+20 TO STA. 504+00</p> | <p>⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS)
STA. 492+95 TO STA. 497+68
STA. 502+50 TO STA. 506+52</p> <p>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
STA. 498+82 TO STA. 499+54
STA. 500+50 TO STA. 501+18</p> <p>⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS)
STA. 498+82 TO STA. 499+54
STA. 500+50 TO STA. 501+18</p> <p>⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)
STA. 498+79, 41.3' LT to STA. 498+93, 29.6' LT
STA. 501+01, 27' RT to STA. 501+12, 41.3' RT</p> <p>⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
STA. 497+88
STA. 502+07</p> |
|---|---|

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = jpong	DESIGNED -	REVISED -
PLOT SCALE = 100.000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/19/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
PAVEMENT MARKING PLAN

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	60
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

PR SIGN LEGEND

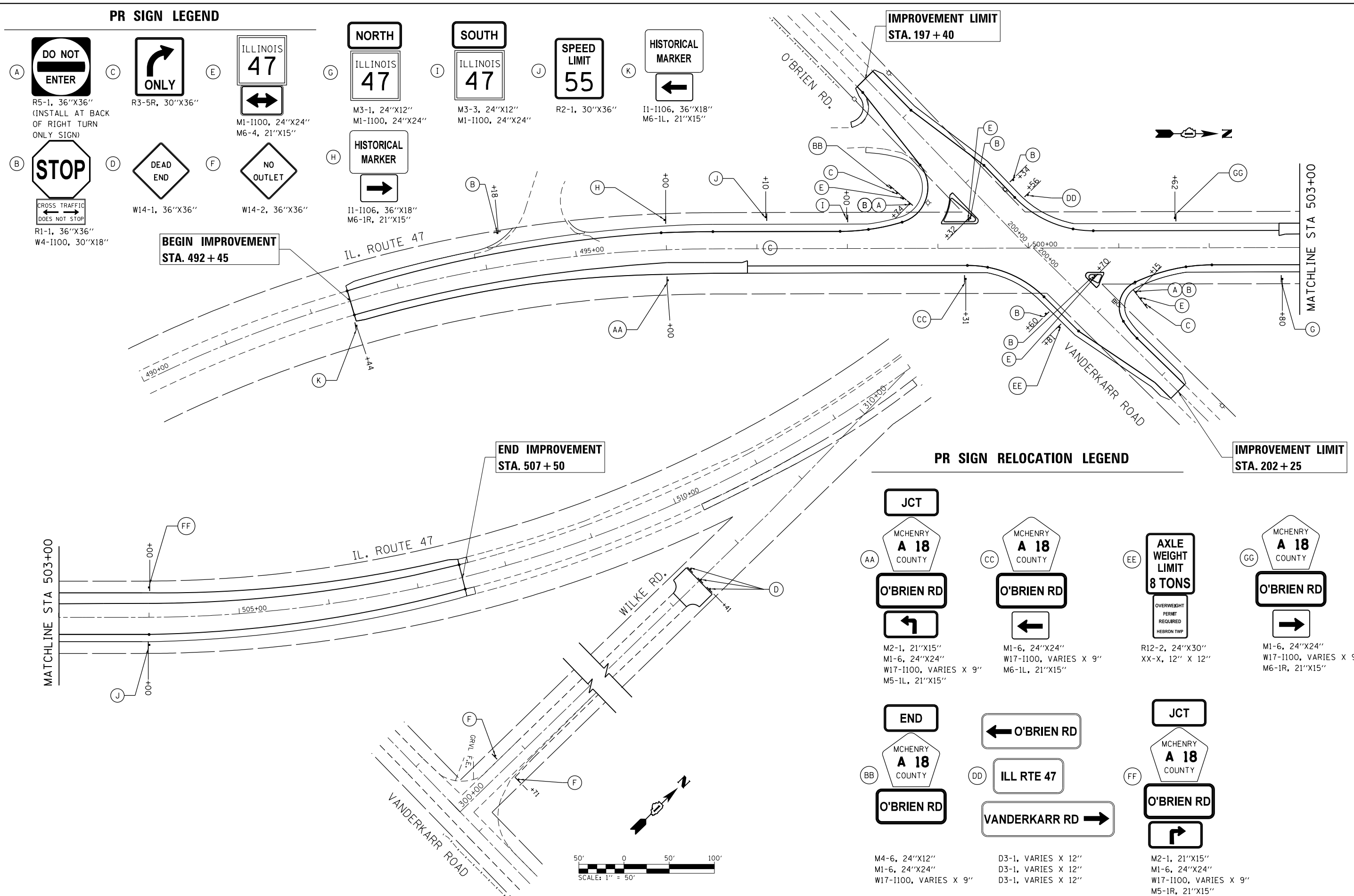
(A) R5-1, 36"x36" (INSTALL AT BACK OF RIGHT TURN ONLY SIGN)	(C) R3-5R, 30"x36"	(E) M1-I100, 24"x24" M6-4, 21"x15"	(G) M3-1, 24"x12" M1-I100, 24"x24"	(I) M3-3, 24"x12" M1-I100, 24"x24"	(J) R2-1, 30"x36"	(K) I1-I106, 36"x18" M6-1L, 21"x15"
(B) R1-1, 36"x36" W4-I100, 30"x18"	(D) W14-1, 36"x36"	(F) W14-2, 36"x36"	(H) I1-I106, 36"x18" M6-1R, 21"x15"			

**BEGIN IMPROVEMENT
STA. 492 + 45**

**END IMPROVEMENT
STA. 507 + 50**

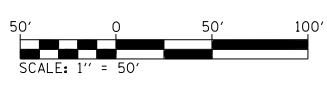
**IMPROVEMENT LIMIT
STA. 197 + 40**

**IMPROVEMENT LIMIT
STA. 202 + 25**



PR SIGN RELOCATION LEGEND

(AA) M2-1, 21"x15" M1-6, 24"x24" W17-I100, VARIES X 9" M5-1L, 21"x15"	(CC) M1-6, 24"x24" W17-I100, VARIES X 9" M6-1L, 21"x15"	(EE) R12-2, 24"x30" XX-X, 12" X 12" OVERWEIGHT PERMIT REQUIRED HEBRON TWP	(GG) M1-6, 24"x24" W17-I100, VARIES X 9" M6-1R, 21"x15"
(BB) M4-6, 24"x12" M1-6, 24"x24" W17-I100, VARIES X 9"	(DD) D3-1, VARIES X 12" D3-1, VARIES X 12" D3-1, VARIES X 12"	(FF) M2-1, 21"x15" M1-6, 24"x24" W17-I100, VARIES X 9" M5-1R, 21"x15"	



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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = jpong	DESIGNED -	REVISED -
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	DATE -	REVISED -

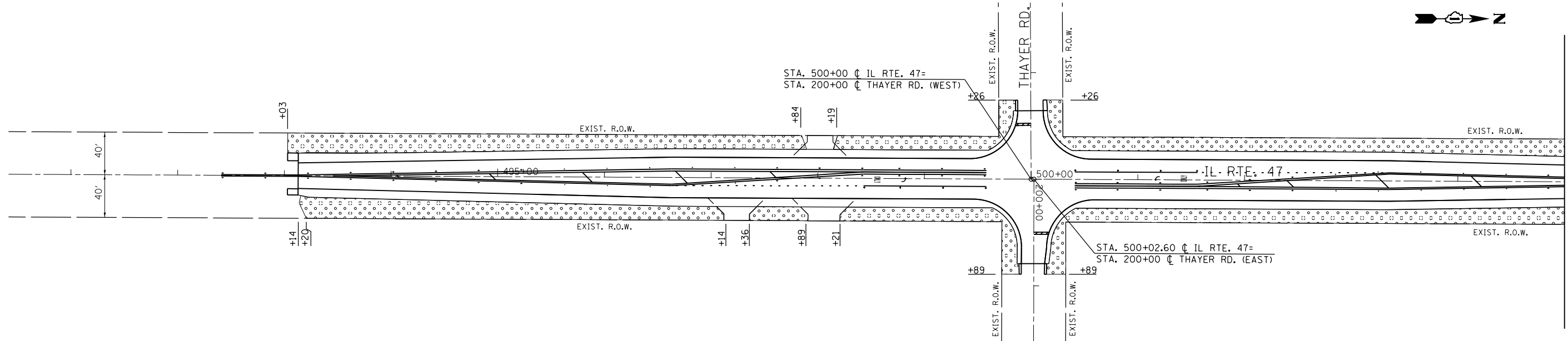
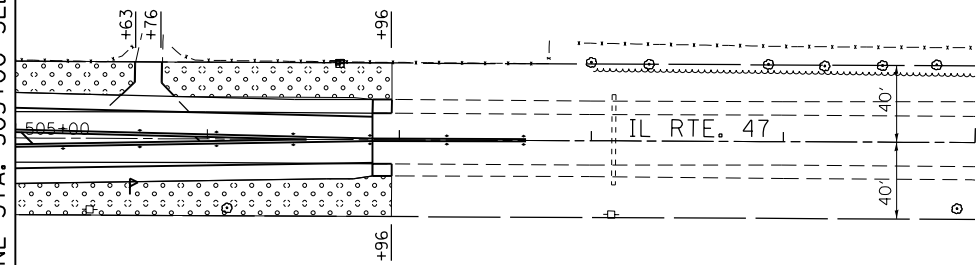
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS SIGNING PLAN	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 61
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

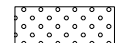
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MATCH LINE STA. 505+00 SEE ABOVE



MATCH LINE STA. 505+00 SEE BELOW

LANDSCAPING LEGEND

 SEEDING, CLASS 2A
W/EROSION CONTROL BLANKET



USER NAME = johnn	DESIGNED - PP	REVISED - _____
DRAWN - PP	REVISIONS - _____	REVISED - _____
PLOT SCALE = 100.0000' / 1in.	CHECKED - TGM	REVISED - _____
PLOT DATE = 10/13/2017	DATE - 10/13/2017	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
LANDSCAPING**

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	62
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

Existing Structure (056-0238):
Originally built in 1932 as SBI 47, Section 104
a 60' long 3 cell 6'x2' CIP concrete box culvert
and wing walls on a 23°21' skew.

No salvage.

Traffic Control:
Two lanes of traffic on IL 47 and O'Brien shall be
maintained utilizing Stage Construction, with Vanderkarr
Rd closed and traffic detour through Wilke Rd to IL 47.

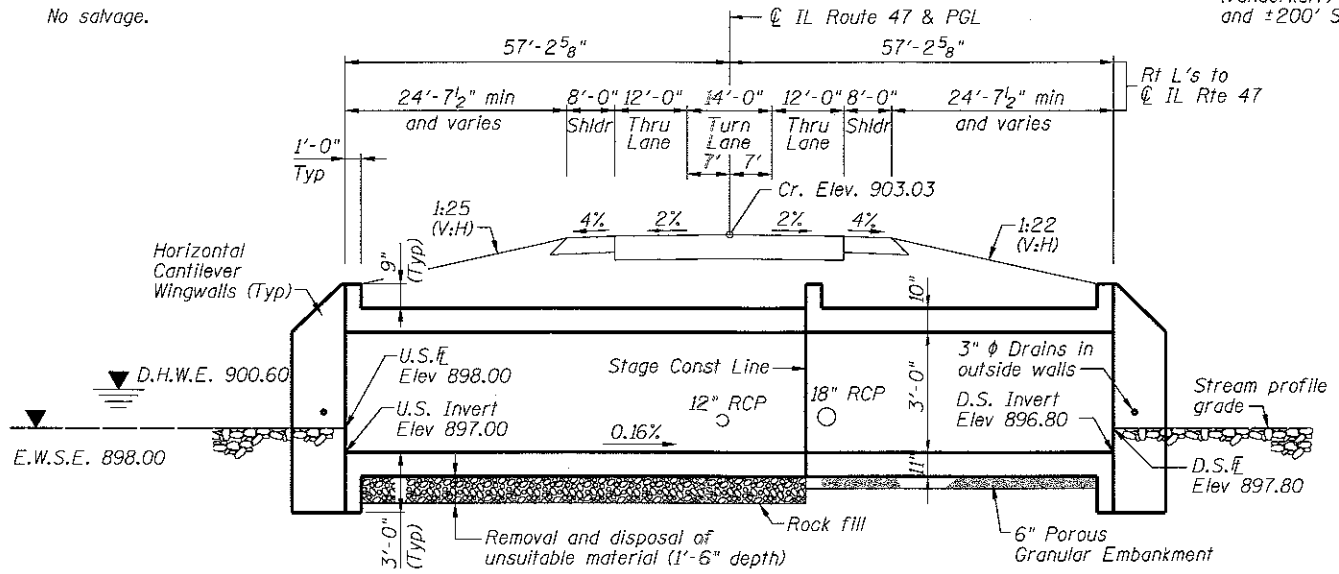
Benchmark:
"□" in center of concrete slab W.
side of parking area in SW quad
of intersection of IL 47 & O'Brien
(Vanderkarr) ±200' west of IL 47
and ±200' S. of O'Brien. Elev. 901.58

STATION 500+02.20
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 326 SEC. 104-N
LOADING HL-93
STR. NO. 056-0300

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	255.8
Porous Granular Embankment	Cu. Yd.	290
Bar Splicers	Each	124
Reinforcement Bars	Pound	48,160
Temporary Sheet Piling	Sq. Ft.	584
Membrane Waterproofing for Buried Structures	Sq. Yd.	416
Stone Riprap, Class B4	Sq. Yd.	271
Filter Fabric	Sq. Yd.	271
Rock Fill	Cu. Yd.	130
Removal and Disposal of Unsuitable Material	Cu. Yd.	130



GENERAL NOTES

1. Precast alternate is not allowed.
2. All excavation required for construction of the culvert as shown in these plans and in accordance with the standard specifications shall be included in the cost for Concrete Box Culverts.
3. The Contractor shall be responsible to divert the stream during construction to keep construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the cost for Concrete Box Culverts.
4. Layout of the slope protection system may be varied to suit ground conditions in the field and as directed by the Engineer
5. The limits and quantities of unsuitable soil removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 and 2016 Interims

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

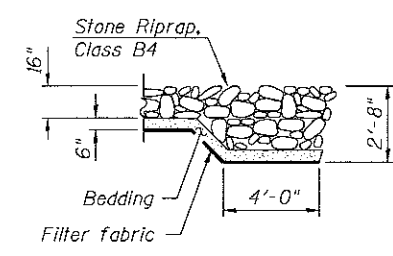
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

WATERWAY INFORMATION

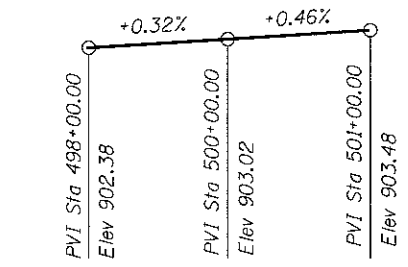
Drainage Area = 1.4 sq. mi. Exist Overtopping Elev. = 902.52 at Sta. 199+76 (O'Brien)
Prop Overtopping Elev. = 902.81 at Sta. 199+50 (O'Brien)

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	153	36	48	900.20	0.53	0.00	900.73	900.06
Base	50	225	36	48	900.60	0.90	0.33	901.50	900.93
Overtop exist	100	254	36	48	900.70	1.15	0.56	901.85	901.26
Overtop prop	330	303	36	48	900.86	1.66		902.52	
Max Calc	>500	371		48	901.06		1.75	902.81	
	>500	371		48	901.06		1.75	902.81	

10 Year Velocity through Existing Structure = 4 ft/s
10 Year Velocity through Proposed Structure = 3 ft/s



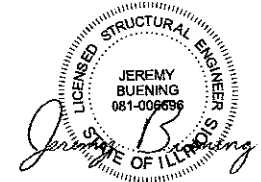
SECTION A-A



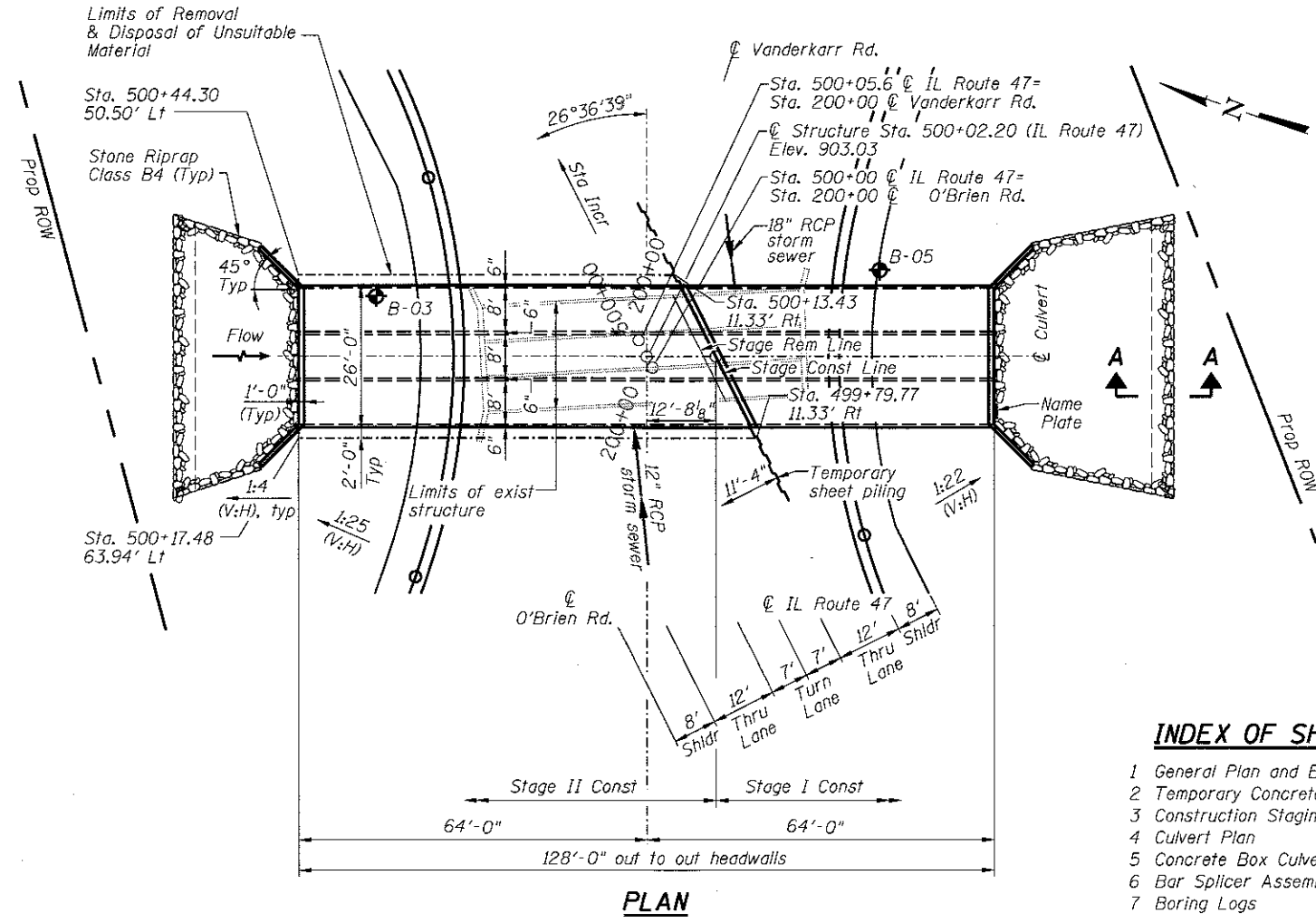
PROFILE GRADE - IL RTE 47

APPROVED
For Structural Adequacy Only

Jeremy Buening
Engineer of Bridges & Structures

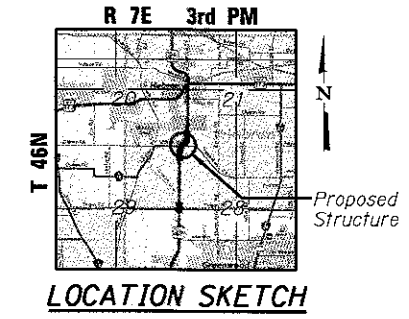


Jeremy Buening, P.E., S.E. Date 11/13/2017
License Expires 11/30/18



INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Temporary Concrete Barrier For Stage Construction
- 3 Construction Staging Details
- 4 Culvert Plan
- 5 Concrete Box Culvert Details
- 6 Bar Splicer Assembly and Mechanical Splicer Details
- 7 Boring Logs



GENERAL PLAN AND ELEVATION
IL RTE. 47 OVER UNNAMED DITCH
AT O'BRIEN / VANDERKARR RD.
F.A.P. RTE. 326 SEC. 104-N
McHENRY COUNTY
STATION 500+02.20
S.N. 056-0300

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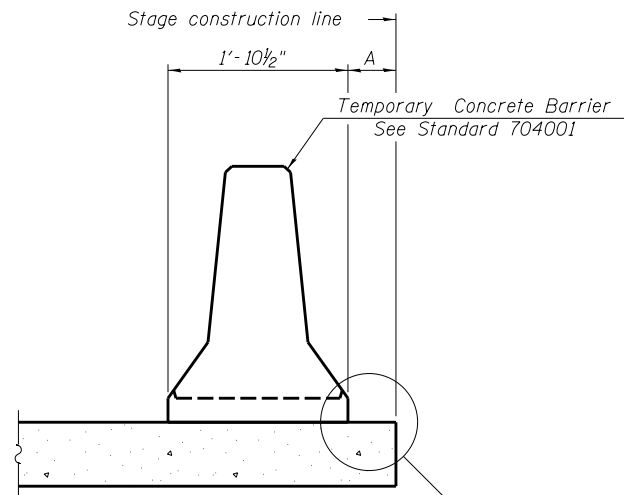
CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

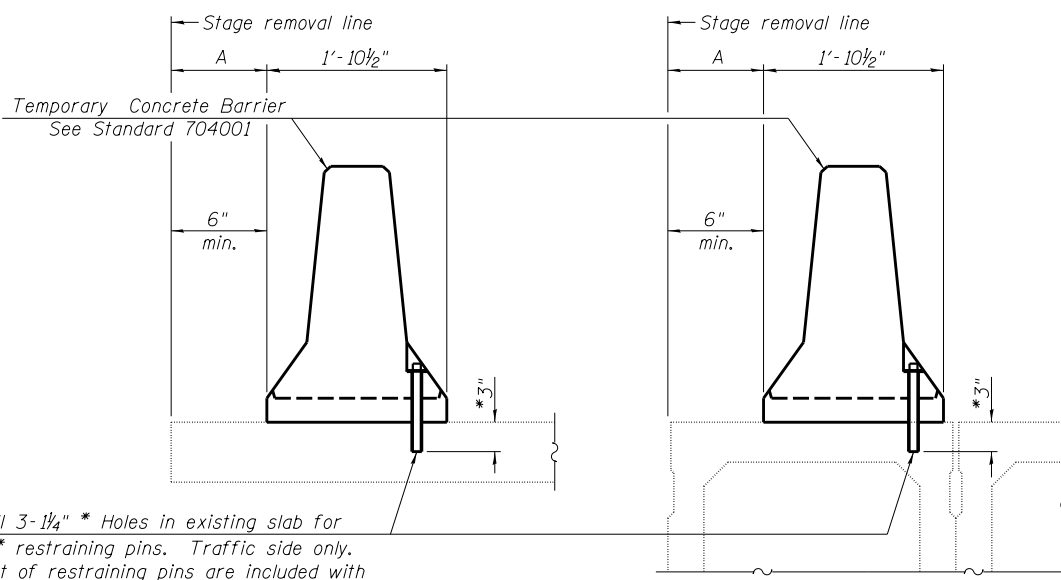
ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
GENERAL PLAN AND ELEVATION
SHEET NO. 1 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	64
SN 056-0300		CONTRACT NO. 62C34		
[ILLINOIS] FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

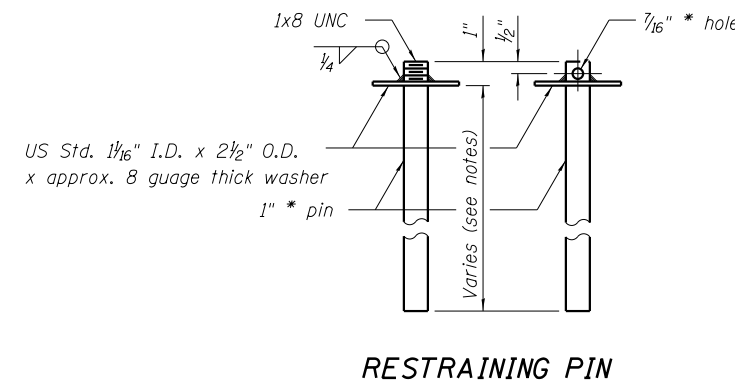


Drill 3-1/4" * Holes in existing slab for 1" * restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

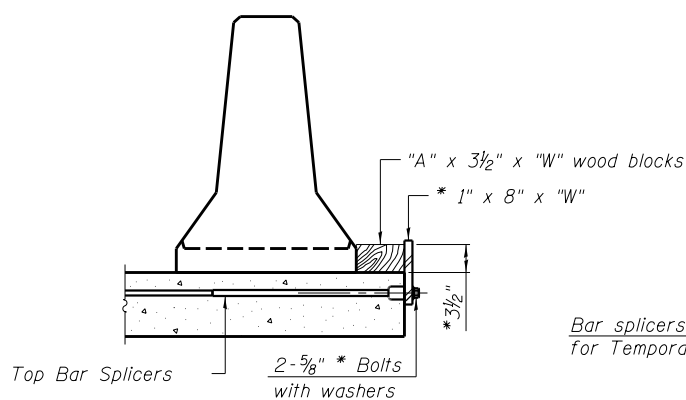
EXISTING SLAB

EXISTING DECK BEAM

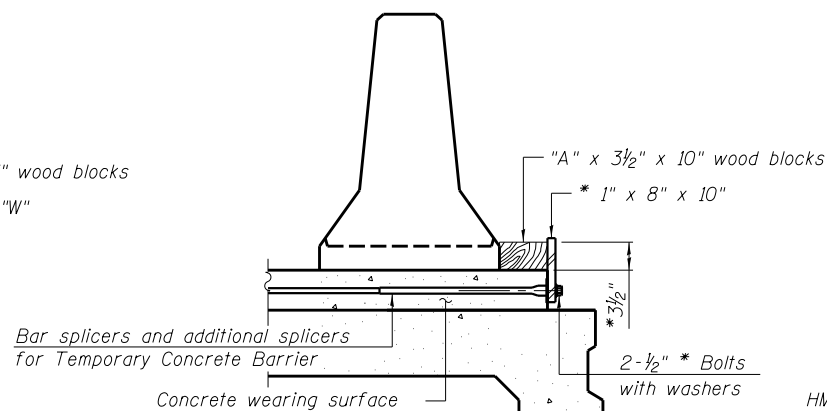
SECTIONS THRU SLAB OR DECK BEAM



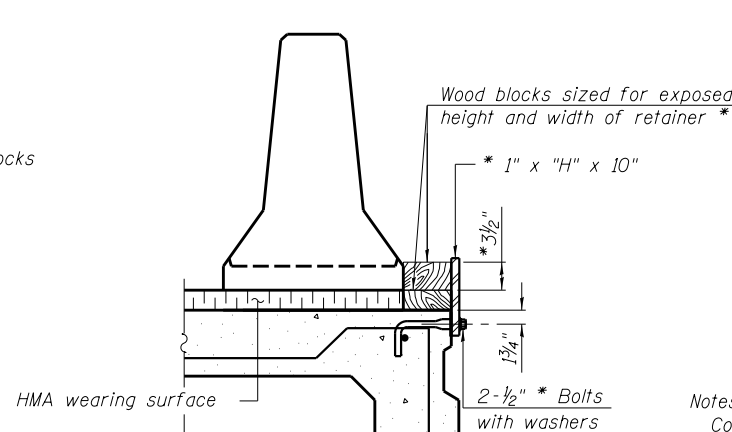
RESTRAINING PIN



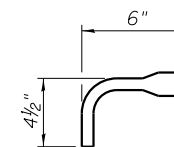
DETAIL I



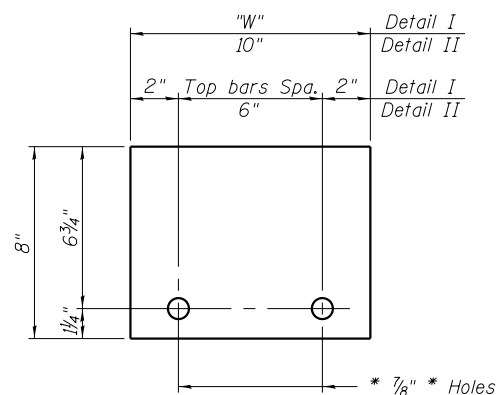
DETAIL II



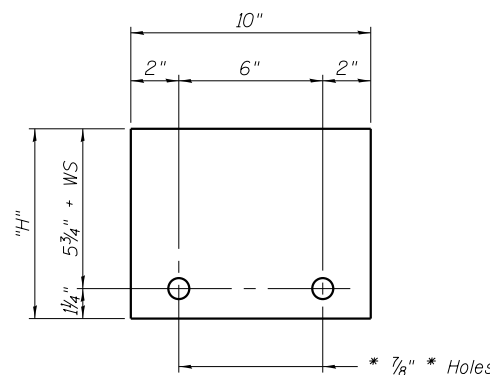
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER * 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER * 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate * of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.
 Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

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R-27

2-17-2017

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

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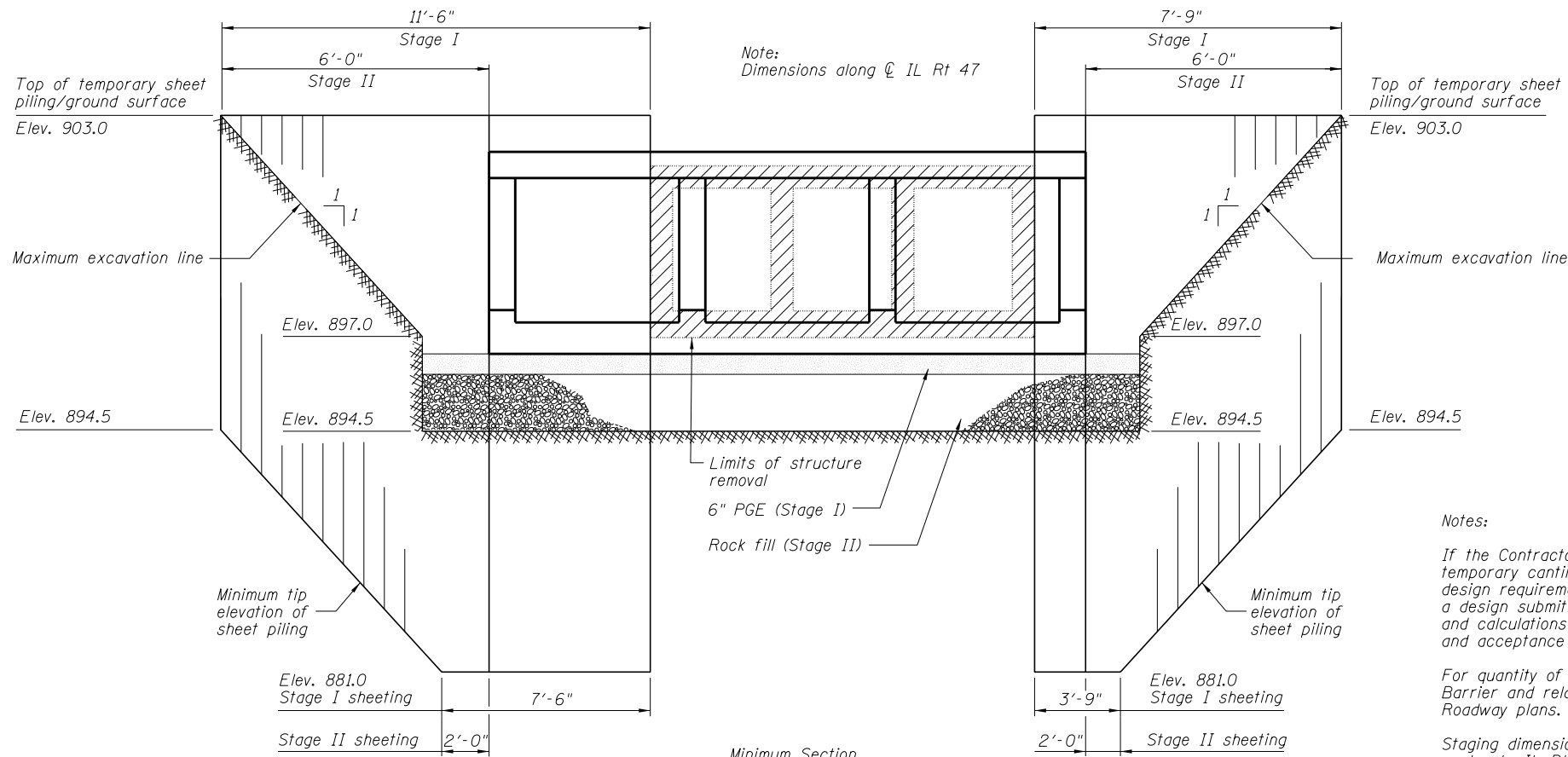
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION

SHEET NO. 2 OF 7 SHEETS

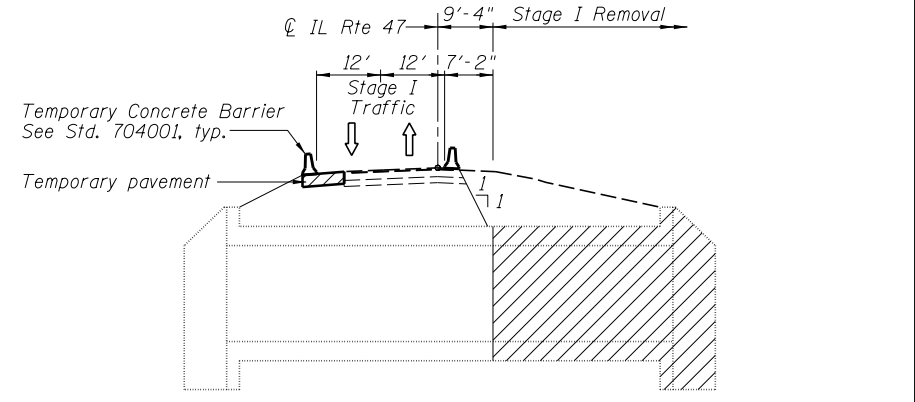
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326	104-N	McHENRY	106	65
SN 056-0300		CONTRACT NO. 62C34		

ILLINOIS FED. AID PROJECT

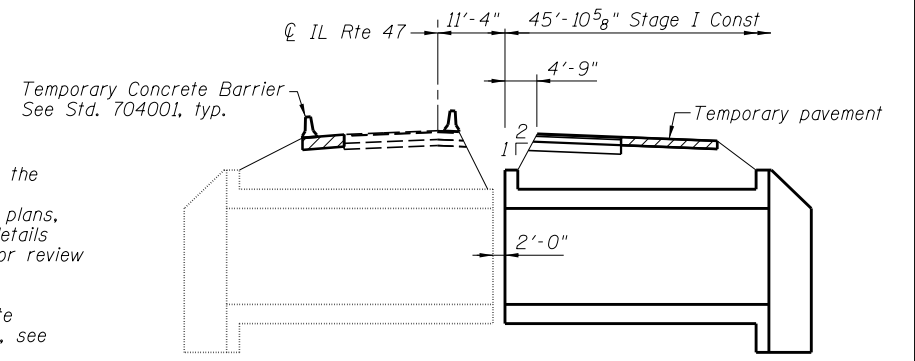


TEMPORARY SHEET PILING DETAIL
(Looking Northwest)

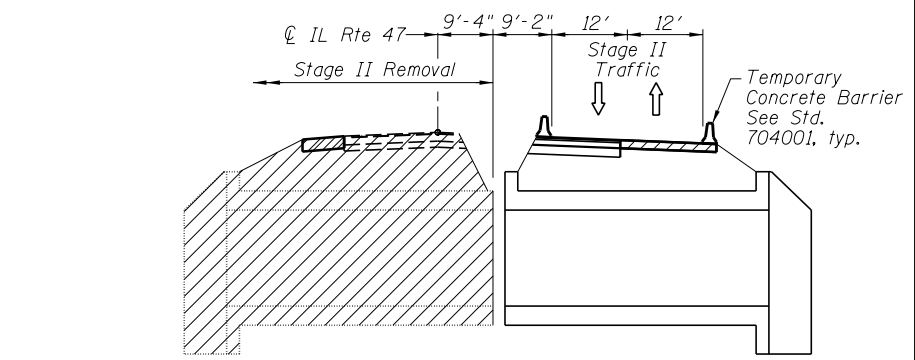
Notes:
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
For quantity of Temporary Concrete Barrier and related traffic control, see Roadway plans.
Staging dimensions measured at Rt angles to IL Rt 47.
Hatched area indicates removal of existing structure.



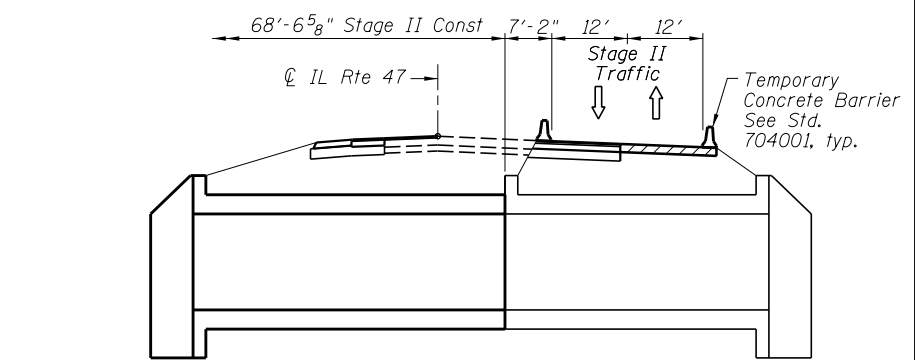
STAGE I REMOVAL



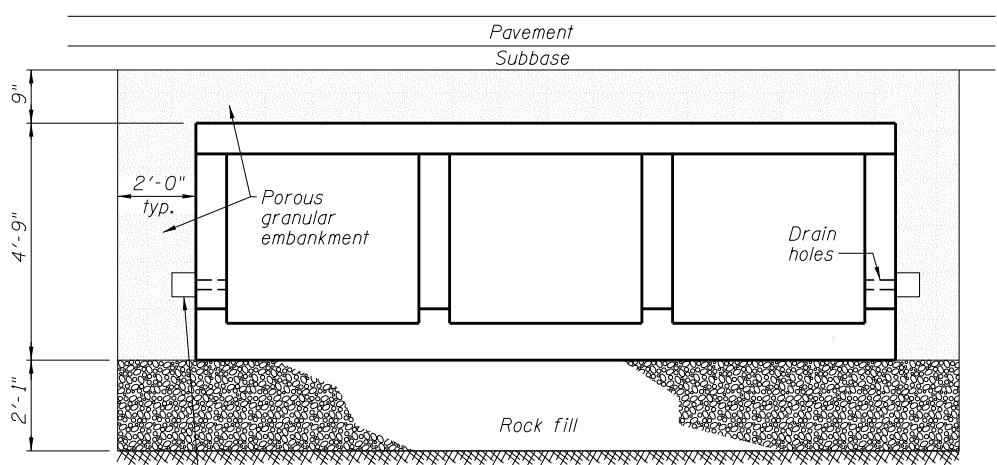
STAGE I CONSTRUCTION



STAGE II REMOVAL

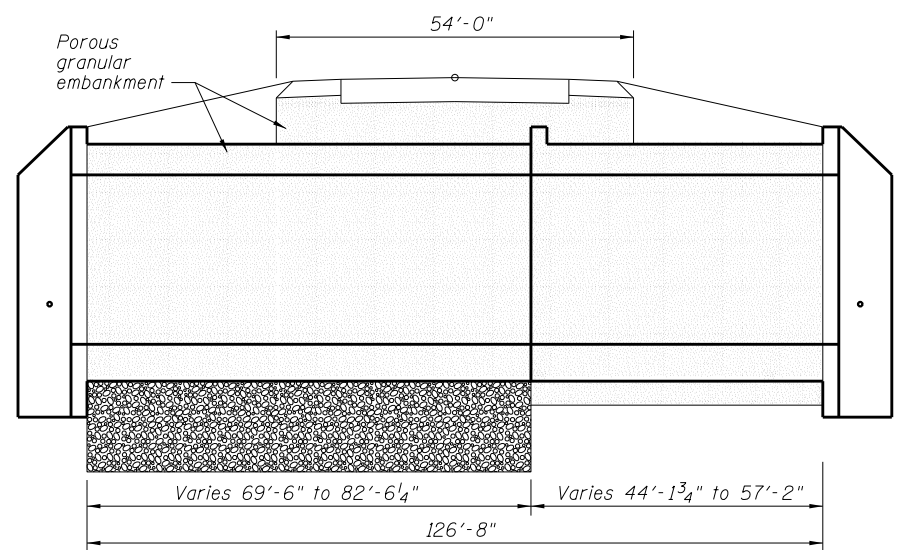


STAGE II CONSTRUCTION



SECTION THRU BARREL

2' x 2' x 2' deposit of CA 5, 7, or 11 in fabric envelope in accordance with Article 502.10 of the Standard Specifications (Typical)



LONGITUDINAL SECTION

- Notes:
- Except as specified in this detail, the placement and compaction of backfill shall be in accordance with Article 502.10 of the Standard Specifications.
 - Porous granular embankment shall be placed in accordance with Section 207 of the Standard Specifications.
 - If no undercut is required, a 6" minimum layer of porous granular embankment shall be placed below the elevation of the bottom of box culvert.
 - Rock fill shall be according to the Special Provisions.

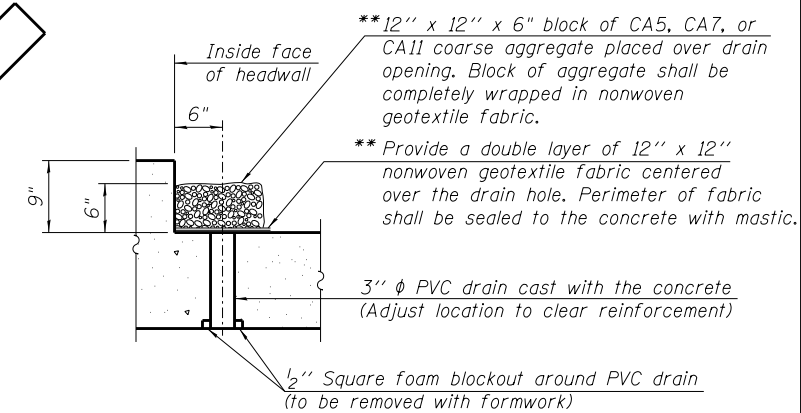
DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS

BILL OF MATERIAL

Item	Unit	Quantity
Temporary Sheet Piling	Sq. Ft.	584

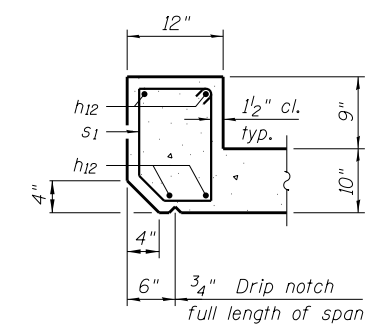
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**Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

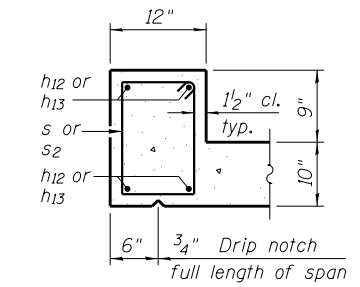


DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

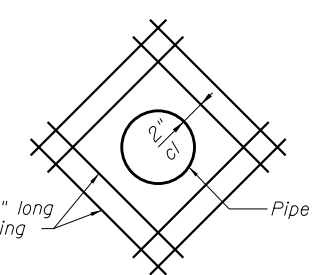


UPSTREAM

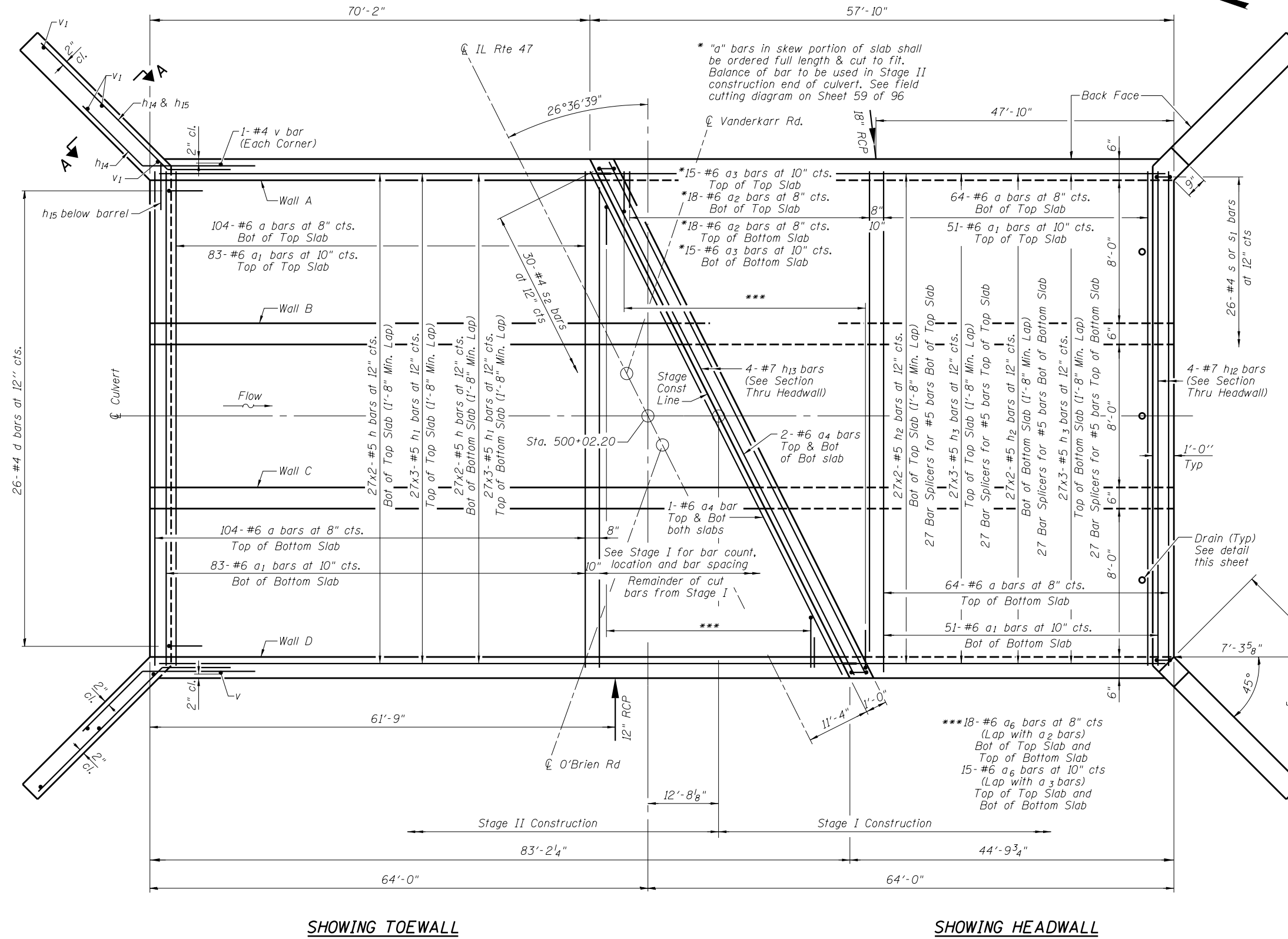


DOWNSTREAM & STAGE LINE

SECTION THRU HEADWALL



REINFORCING AT WALL PENETRATIONS



SHOWING TOEWALL

SHOWING HEADWALL

PLAN

MIN BAR LAP

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 27x2- #5 etc. indicates 27 lines of bars with 2 lengths per line.
For Section A-A see Sheet 5 of 7.

#6 bar = 2'-7"

FILE NAME = H:\P\J\DOT\65988 PTB 181 006\Work Op-der-1\CADD\Structural\0162C34-sht-culvert.tbl.dgn

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

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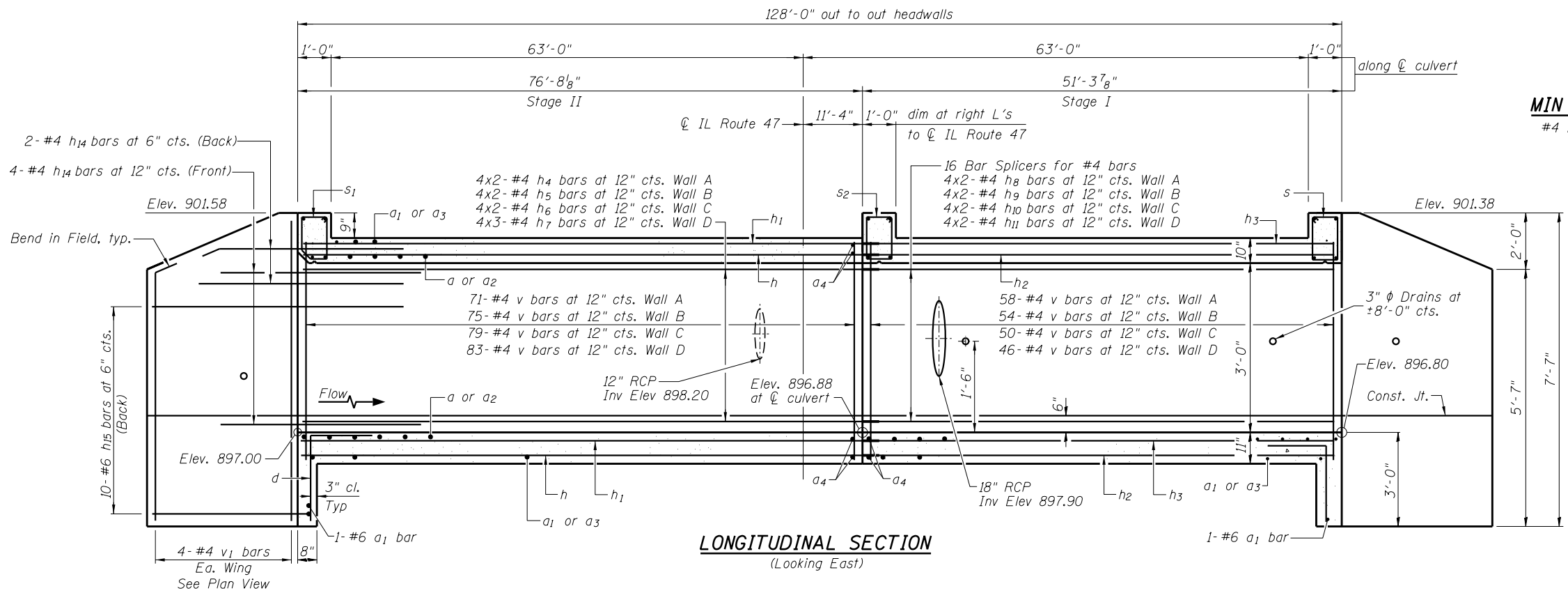
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
CULVERT PLAN

F.A.P. RTE. 326	SECTION 104-N	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 67
SN 056-0300			CONTRACT NO. 62C34	

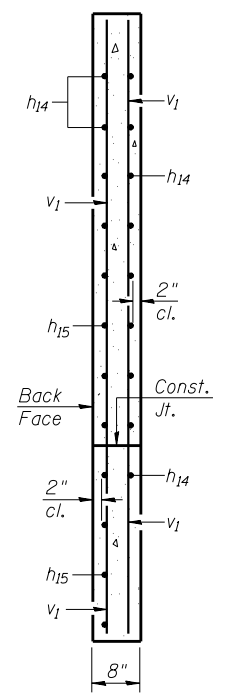
SHEET NO. 4 OF 7 SHEETS

ILLINOIS FED. AID PROJECT

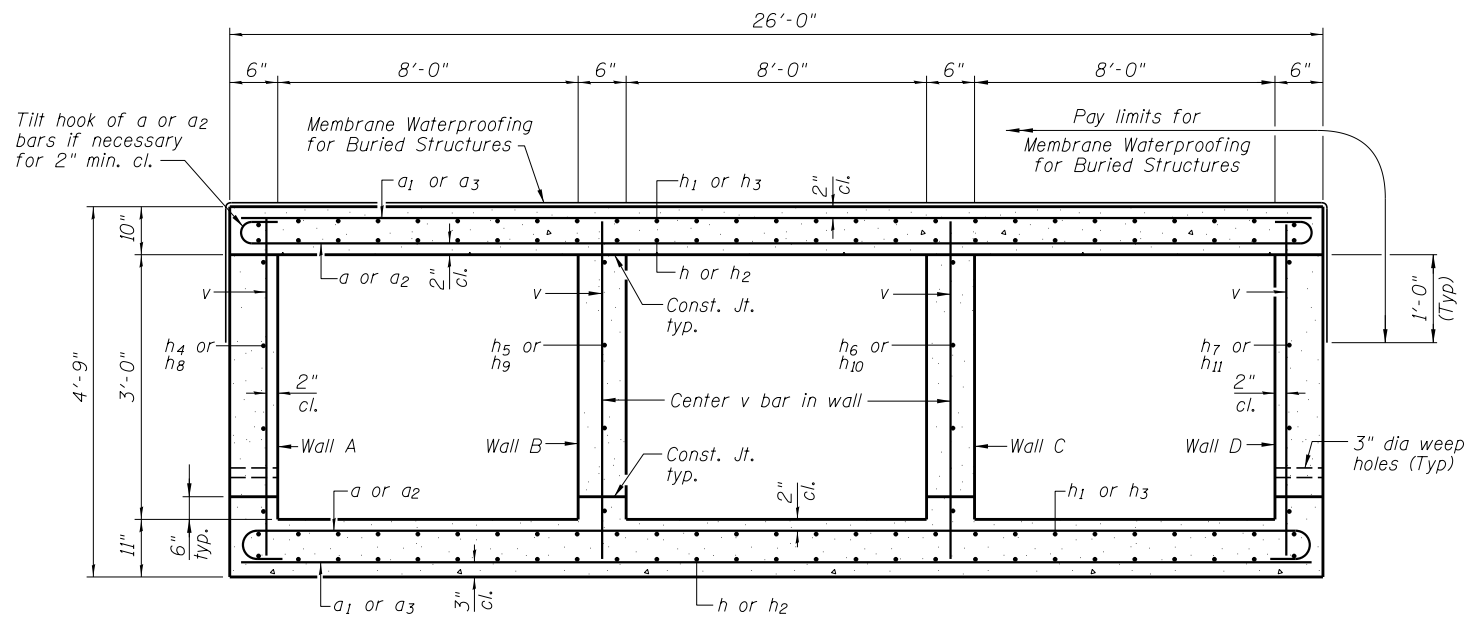


LONGITUDINAL SECTION
(Looking East)

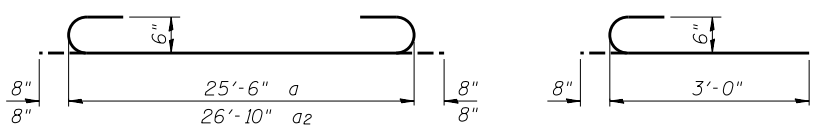
MIN BAR LAP
#4 bars = 1'-4"



SECTION A-A

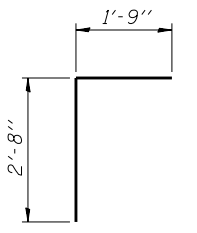


SECTION THRU BARREL
(Looking North)

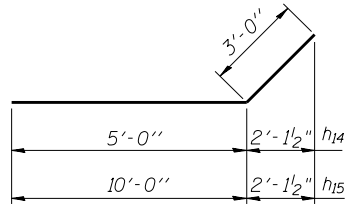


BARS a & a2

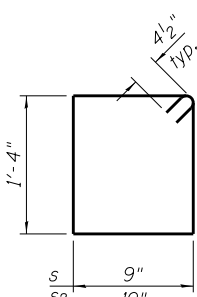
BAR a6



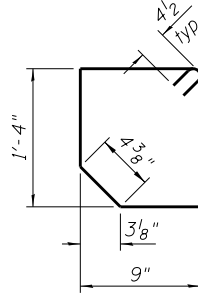
BAR d



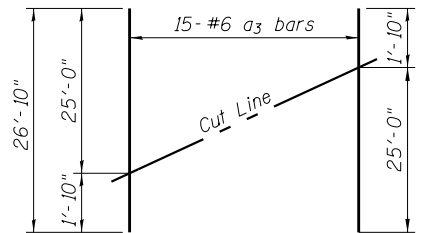
BARS h14 & h15



BARS s & s2

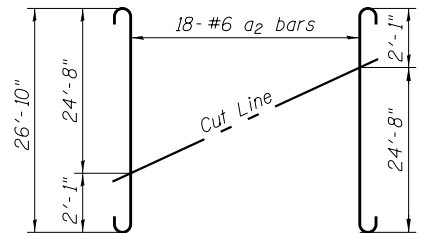


BAR s1



FIELD CUTTING DIAGRAM

Order a3 full length. Cut as shown and use remainder of bars in Stage II const.



FIELD CUTTING DIAGRAM

Order a2 full length. Cut as shown and use remainder of bars in Stage II const.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	336	#6	26'-10"	U
a1	270	#6	25'-6"	U
a2	36	#6	28'-2"	U
a3	30	#6	26'-10"	U
a4	6	#6	28'-9"	U
a5	16	#4	2'-8"	U
a6	66	#6	3'-8"	U
d	52	#4	4'-5"	L
h	108	#5	42'-0"	U
h1	162	#5	28'-7"	U
h2	108	#5	29'-6"	U
h3	162	#5	20'-3"	U
h4	8	#4	35'-6"	U
h5	8	#4	37'-7"	U
h6	8	#4	39'-9"	U
h7	12	#4	28'-6"	U
h8	8	#4	29'-4"	U
h9	8	#4	27'-3"	U
h10	8	#4	25'-1"	U
h11	8	#4	23'-0"	U
h12	8	#7	25'-8"	U
h13	4	#7	28'-9"	U
h14	24	#4	8'-0"	U
h15	48	#4	13'-0"	U
s	26	#4	4'-11"	U
s1	26	#4	4'-5"	U
s2	30	#4	5'-1"	U
v	520	#4	4'-4"	U
v1	16	#4	7'-2"	U
Concrete Box Culverts			Cu. Yd.	255.8
Reinforcement Bars			Pound	48,160
Membrane Waterproofing for Buried Structures			Sq. Yd.	416

FILE NAME = H:\P\1\DOT\65988 PTB 181 006\Work Or-der-1\CA000-Structural\0162C34-sht-culvert.tbl.dgn

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

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PLOT DATE = 11/14/2017

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CHECKED - JMB
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CHECKED - JMB

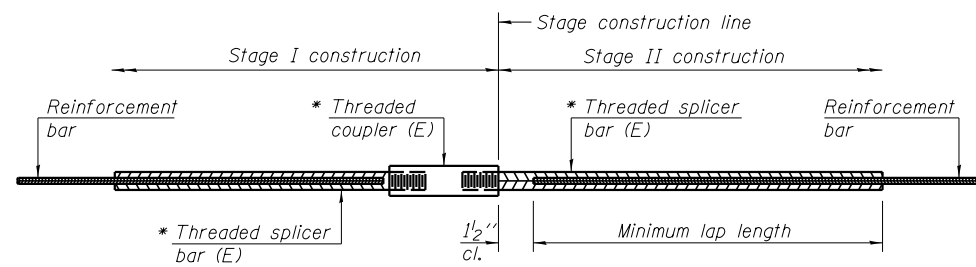
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
CONCRETE BOX CULVERT DETAILS

SHEET NO. 5 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	MCHEURY	106	68
SN 056-0300			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

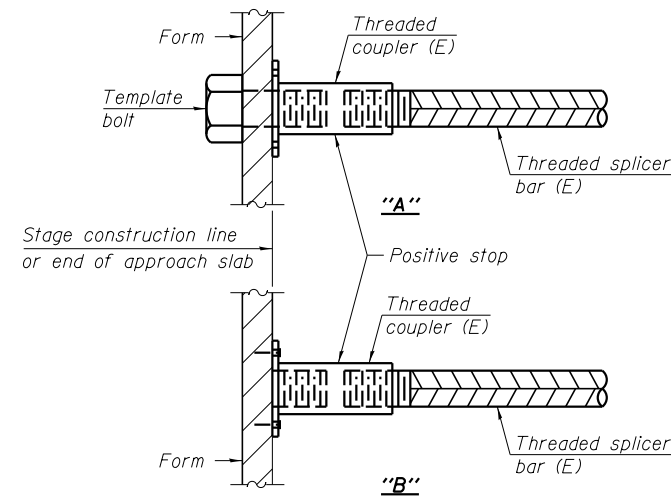


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1/2" + thread length

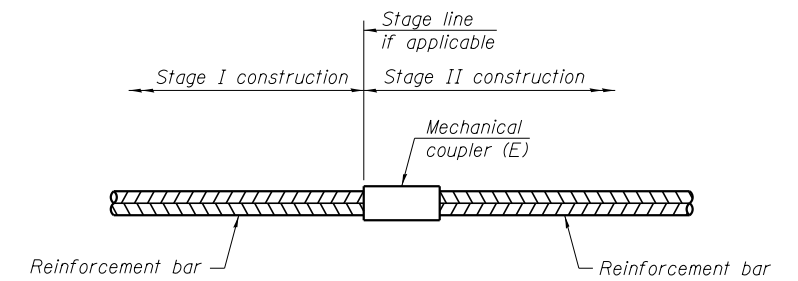
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#5	54	1'-8"
Bottom Slab	#5	54	1'-8"
Walls	#4	16	1'-4"



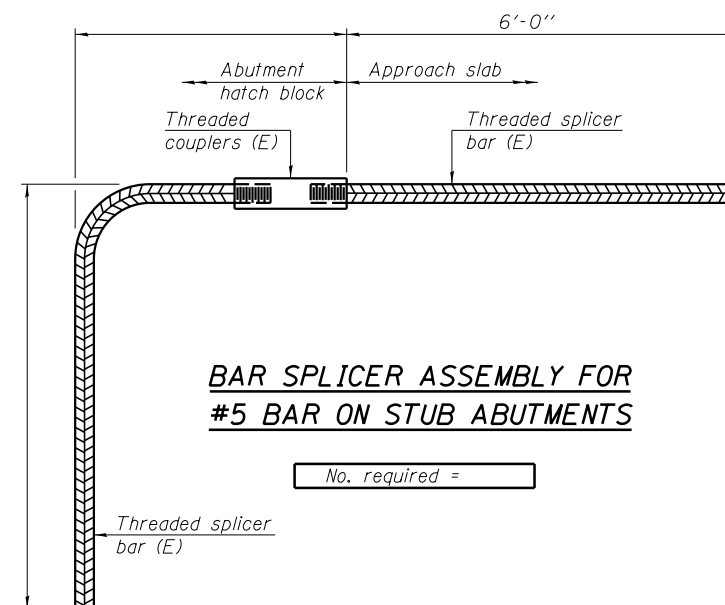
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = H:\P\J\DOT\65988 PTB 181 006\Work Order - 1\CA000.Structural\0162C34-shr-bar splicer.dgn

BSD-1

2-17-2017



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DESIGNED - ACB
 CHECKED - JMB
 DRAWN - RLK
 CHECKED - JMB
 REVISED - _____
 REVISED - _____
 REVISED - _____
 REVISED - _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROADS
 BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

SHEET NO. 6 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHENRY	106	69
SN 056-0300			CONTRACT NO. 62C34	

ILLINOIS FED. AID PROJECT

ROUTE IL Route 47 DESCRIPTION Proposed IL Route 47 Culvert LOGGED BY J.W.

SECTION 104 - N LOCATION IL Rte. 47 at O'Brien / Vanderkarr Road F.A.P. Rte. 326

COUNTY McHenry County DRILLING METHOD 3 1/4" Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	Stream Bed Elev.	P	L	C	O
BORING NO.	T	W	S	I	Groundwater Elev.:	T	W	Qu	S
Station	H	S	Qu	T	First Encounter	H	S	Qu	T
Offset	(ft)	(/6")	(tsf)	(%)	Upon Completion	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After	(ft)	(/6")	(tsf)	(%)
056-0300 N/A					N/A				
B-03 500+34.57					6				
39.98LT					4				
901.05					N/A				
TOPSOIL: Black silty clay, trace sand and gravel					Very loose to dense brown silty SAND with clay, trace gravel (A-2-7) (continued)				
899.72	2		1.7	34		9			
FILL: Brown and black silty clay with sand, trace gravel	3		B			13			
	3					19			
	2			13		10			
	2					11			
	-5	3				-25	21		
894.55	4					11			
Very loose to dense brown silty SAND with clay, trace gravel (A-2-7)	2					13			
	2					23			
	3					13			
	3					15			
	-10	4				-24	24		
	5								
	5								
	9								
	5								
	7								
	-15	13				-35			
	10								
	17								
	24								
	9								
	9								
	-20	12				-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

ROUTE IL Route 47 DESCRIPTION Proposed IL Route 47 Culvert LOGGED BY J.W.

SECTION 104 - N LOCATION IL Rte. 47 at O'Brien / Vanderkarr Road F.A.P. Rte. 326

COUNTY McHenry County DRILLING METHOD 3 1/4" Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	Stream Bed Elev.	P	L	C	O
BORING NO.	T	W	S	I	Groundwater Elev.:	T	W	Qu	S
Station	H	S	Qu	T	First Encounter	H	S	Qu	T
Offset	(ft)	(/6")	(tsf)	(%)	Upon Completion	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After	(ft)	(/6")	(tsf)	(%)
056-0300 N/A					N/A				
B-05 499+98.16					8				
45.97RT					3				
899.82					N/A				
TOPSOIL: Black silty clay, trace sand and gravel					Medium dense to dense brown silty SAND with clay, trace gravel (A-2-7) (continued)				
898.49	2		1.7	26		9			
Medium stiff brown and gray silty CLAY, trace sand and gravel (A-6)	3		B			15			
	4					20			
	3		0.8	16		17			
Loose to medium dense brown gravelly SAND with fines (A-3)	4		B			24			
	-5	6				-25	24		
	8					14			
	9					15			
	8					19			
	5					15			
	4					15			
890.32	-10	5				-30	19		
Medium dense to dense brown silty SAND with clay, trace gravel (A-2-7)									
	6								
	7								
	10								
	7								
	8								
	-15	11				-35			
	6								
	9								
	15								
	15								
	18								
	-20	23				-40			

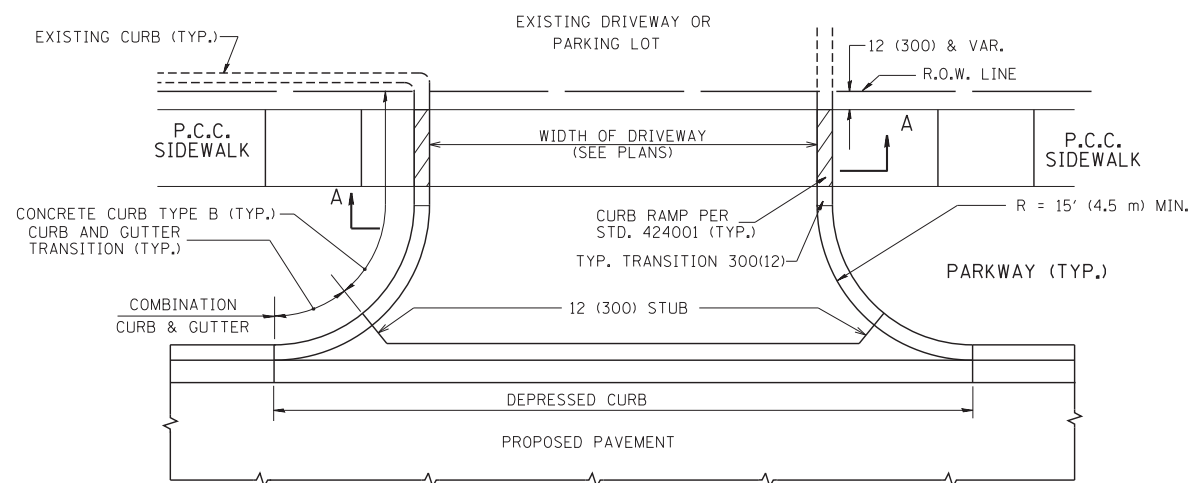
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

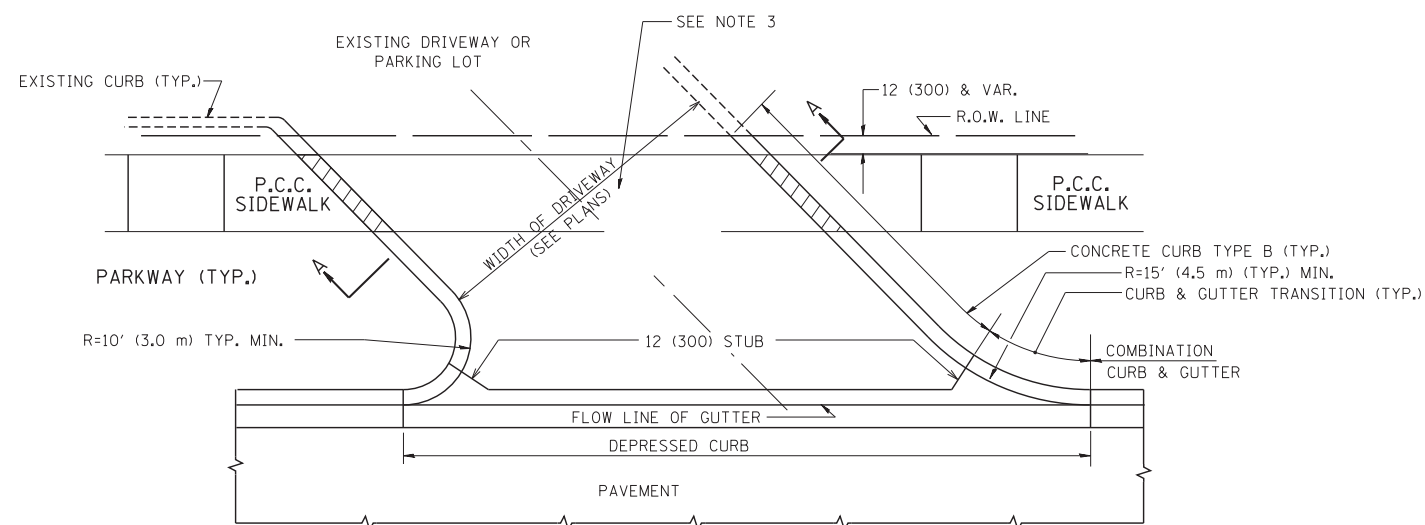
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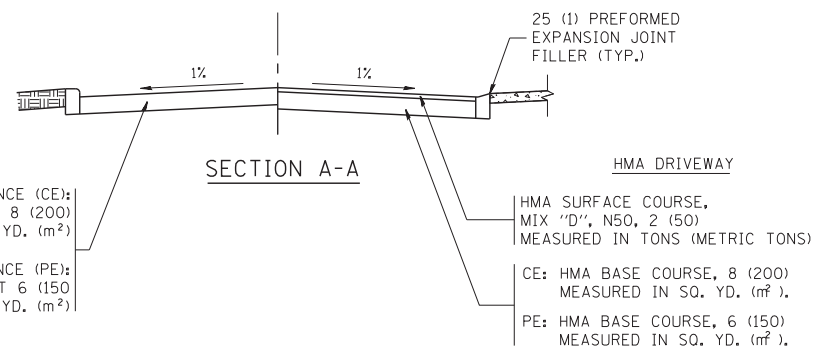
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WITH CONCRETE CURB, TYPE B

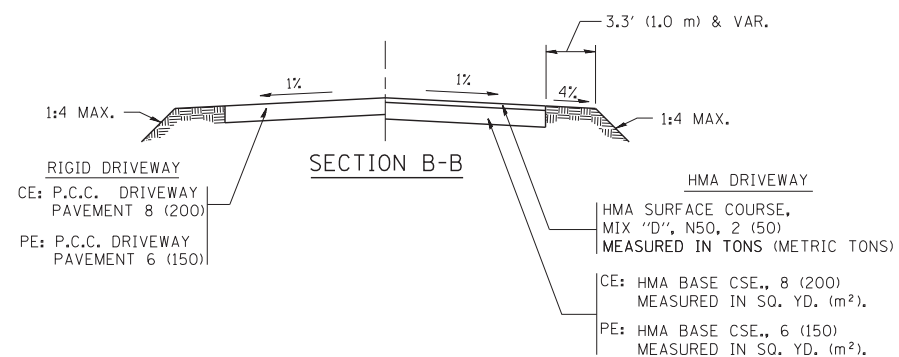
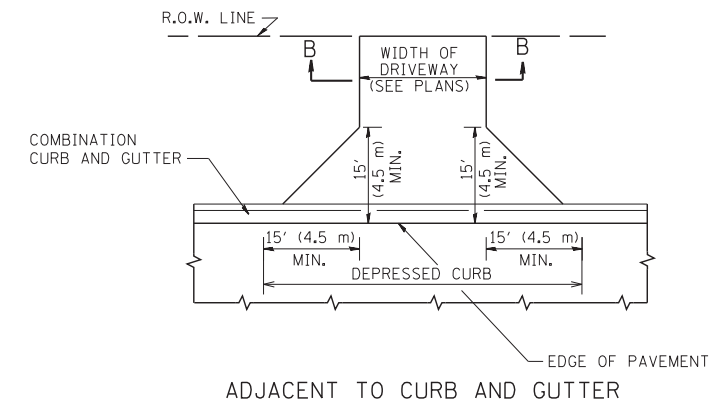
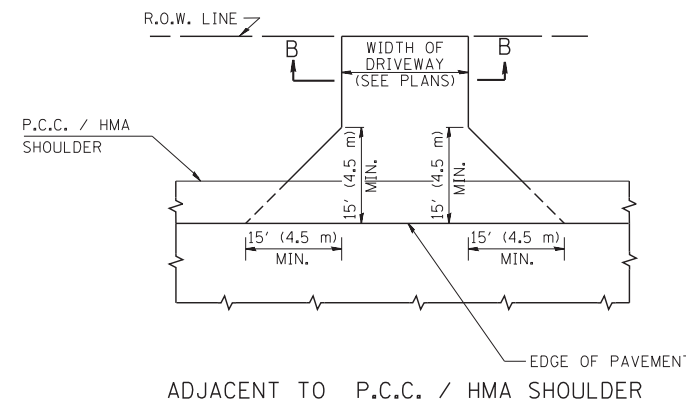


WITH CONCRETE CURB, TYPE B



RIGID DRIVEWAY
 COMMERCIAL ENTRANCE (CE):
 P.C.C. DRIVEWAY PAVEMENT 8 (200)
 MEASURED IN SQ. YD. (m²)
 NON-COMMERCIAL ENTRANCE (PE):
 P.C.C. DRIVEWAY PAVEMENT 6 (150)
 MEASURED IN SQ. YD. (m²)

HMA DRIVEWAY
 HMA SURFACE COURSE,
 MIX "D", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE COURSE, 8 (200)
 MEASURED IN SQ. YD. (m²),
 PE: HMA BASE COURSE, 6 (150)
 MEASURED IN SQ. YD. (m²).



GENERAL NOTES:

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

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

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

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

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

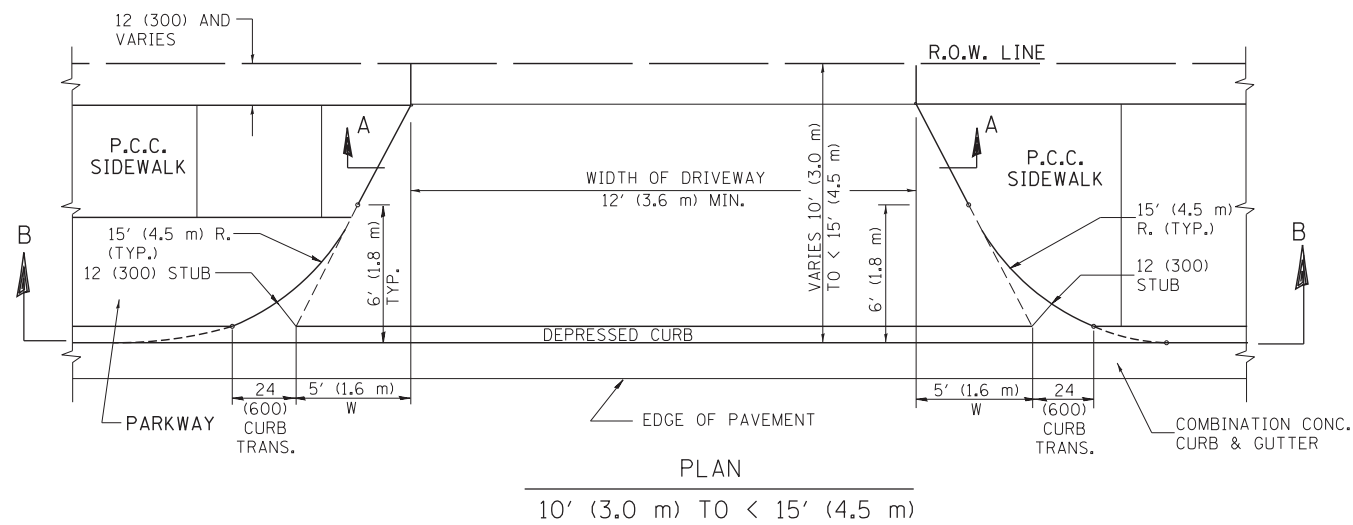
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

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	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

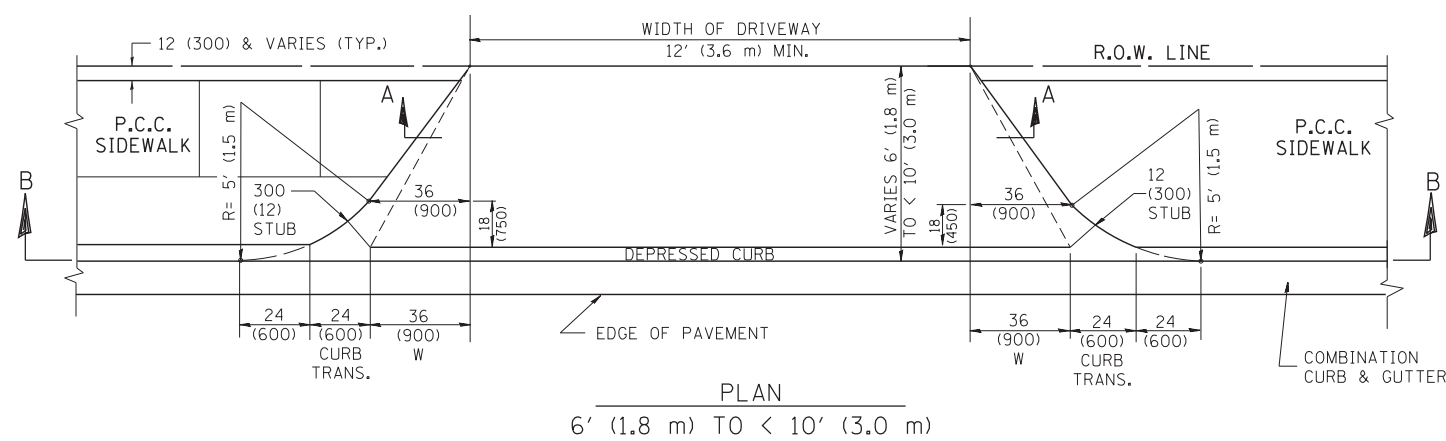
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

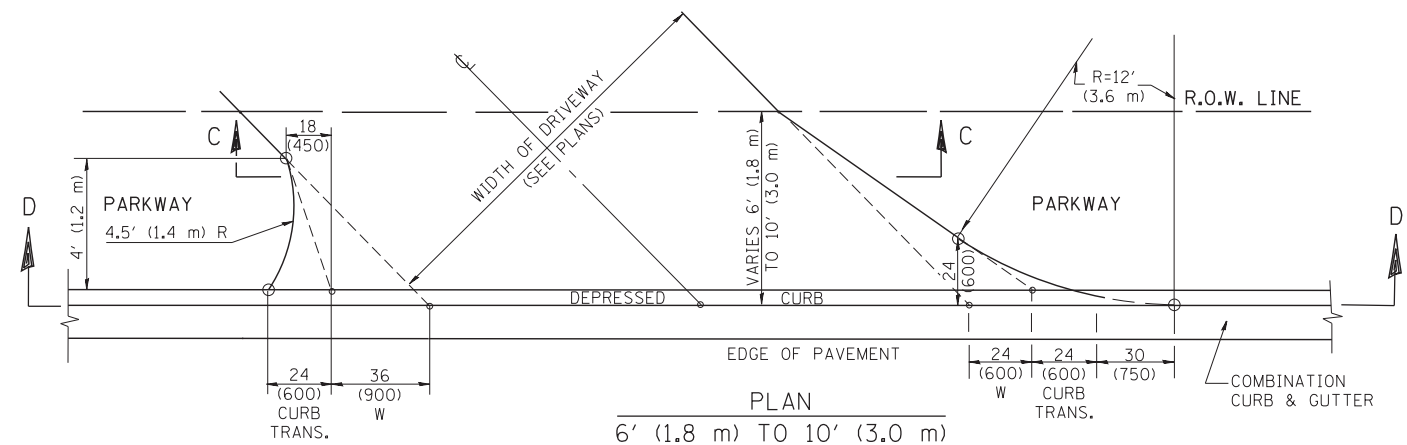
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD0156-07 (BD-01)			CONTRACT NO. 62C34	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



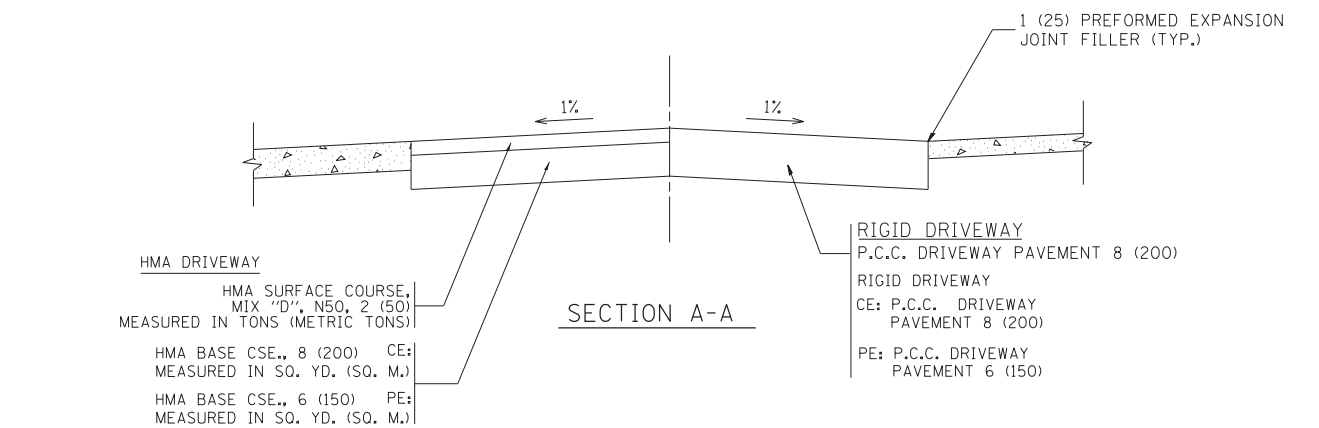
PLAN
10' (3.0 m) TO < 15' (4.5 m)



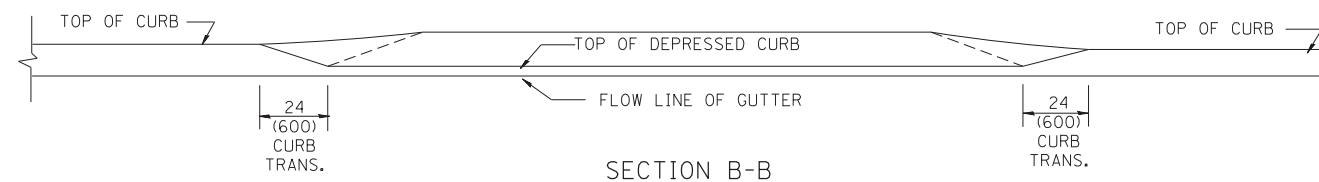
PLAN
6' (1.8 m) TO < 10' (3.0 m)



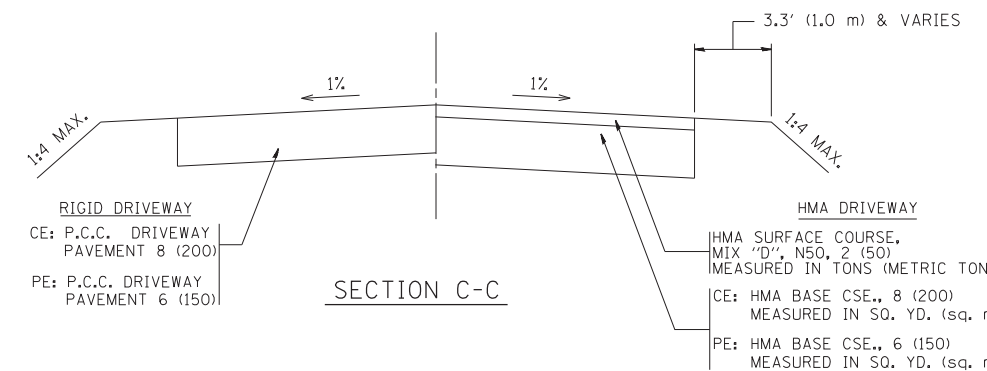
PLAN
6' (1.8 m) TO 10' (3.0 m)



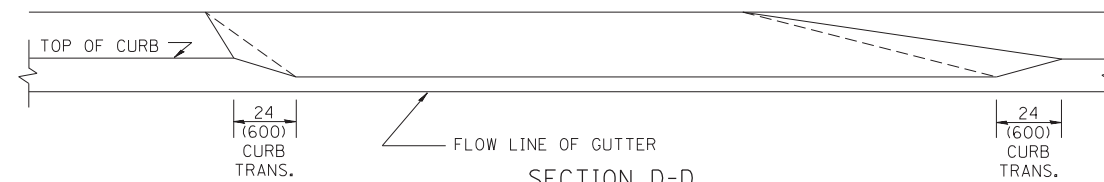
SECTION A-A
HMA DRIVEWAY
HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)
HMA BASE CSE., 8 (200) MEASURED IN SQ. YD. (SQ. M.)
CE: P.C.C. DRIVEWAY PAVEMENT 8 (200)
PE: P.C.C. DRIVEWAY PAVEMENT 6 (150)



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

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

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

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

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

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

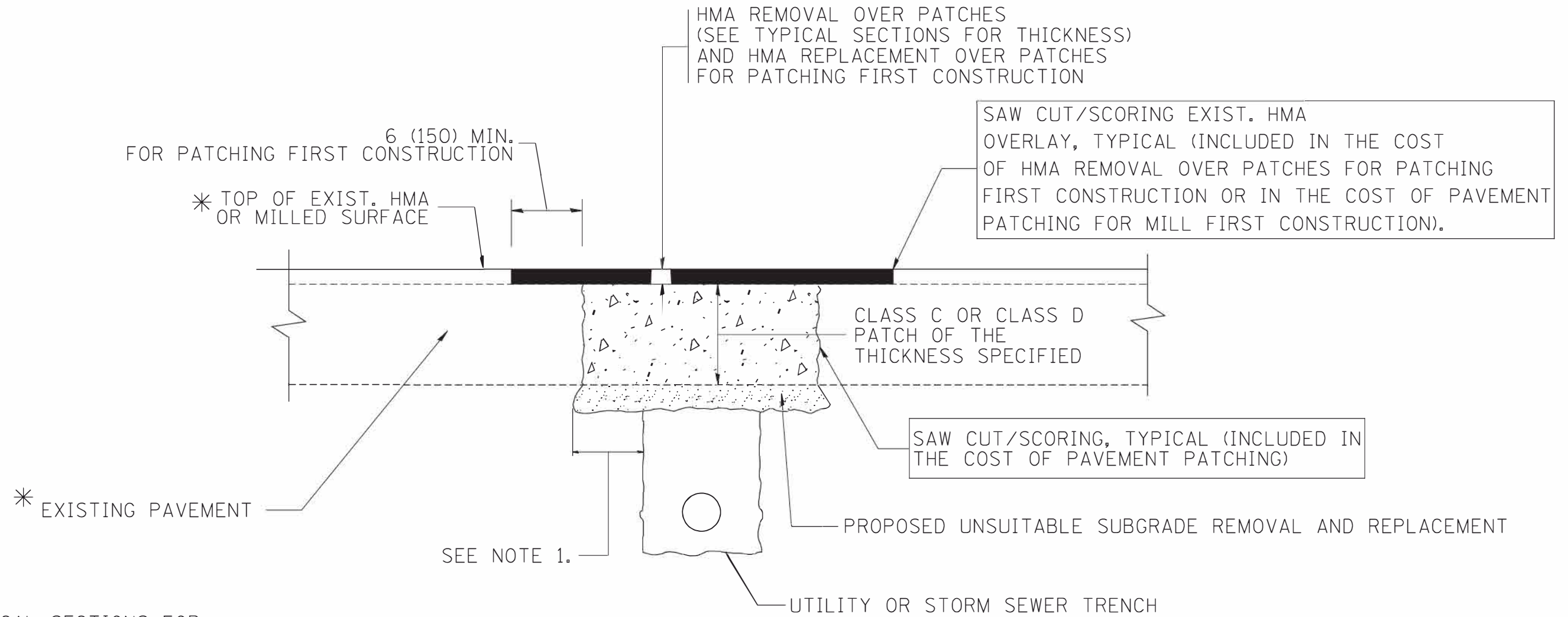
"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

FILE NAME =	USER NAME = l1eyso	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
ct:\pw\work\p1dot\1eyso\d0108315\bd02.dgn		DRAWN -	REVISED - P. LOFLEUR 04-15-03
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	PLOT DATE = 10/28/2011	DATE - 11-06-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)		326	104-N	McHenry	106	72
SCALE: NONE		BD400-02 (BD-02)		CONTRACT NO. 62C34		
SHEET NO. 1 OF 1 SHEETS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

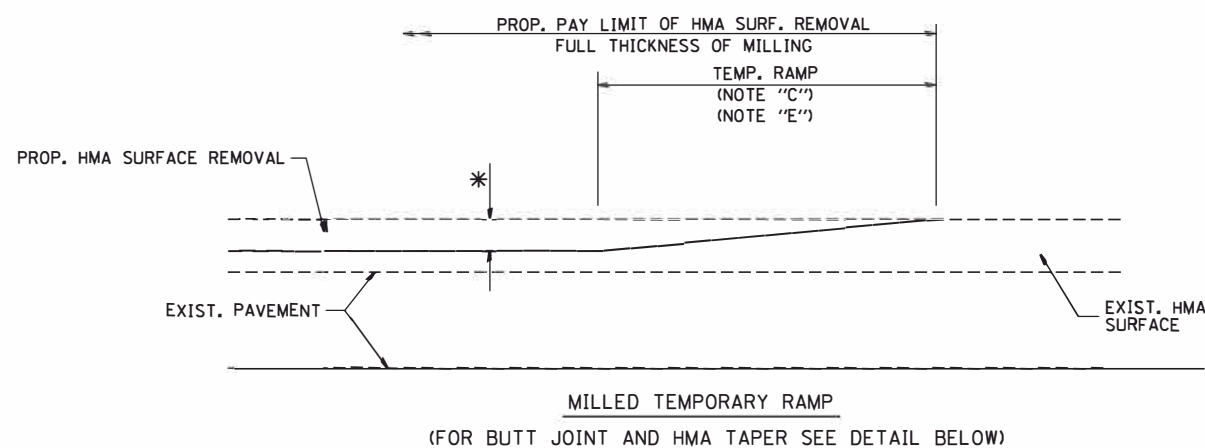
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

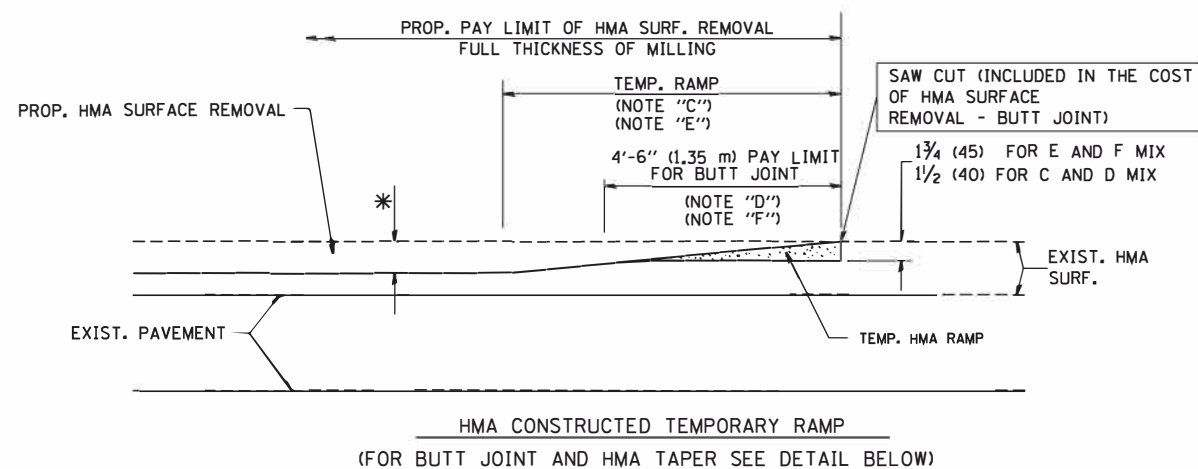
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	326	104-N	McHenry	106	73
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07					BD400-04 (BD-22)		CONTRACT NO. 62C34			
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

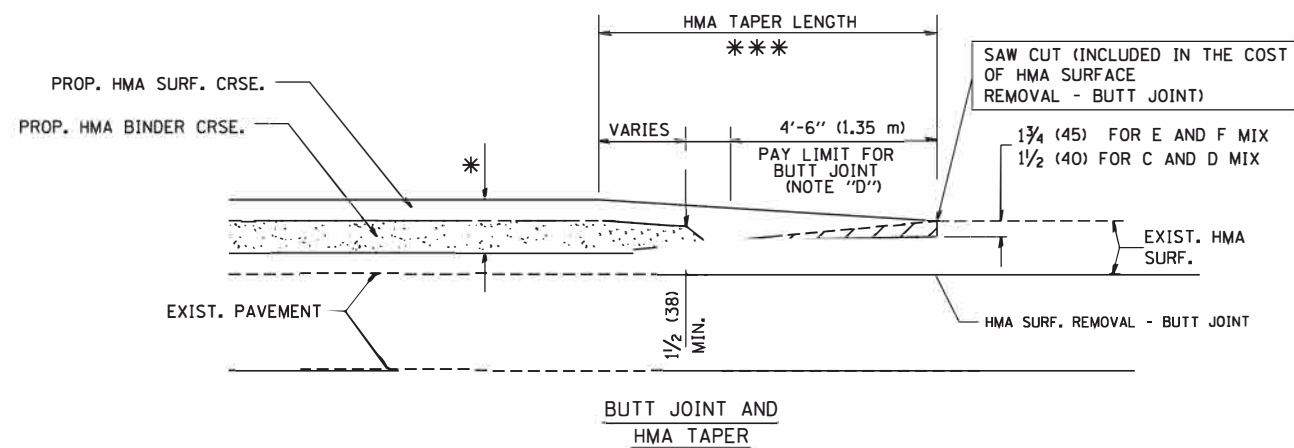


OPTION 1

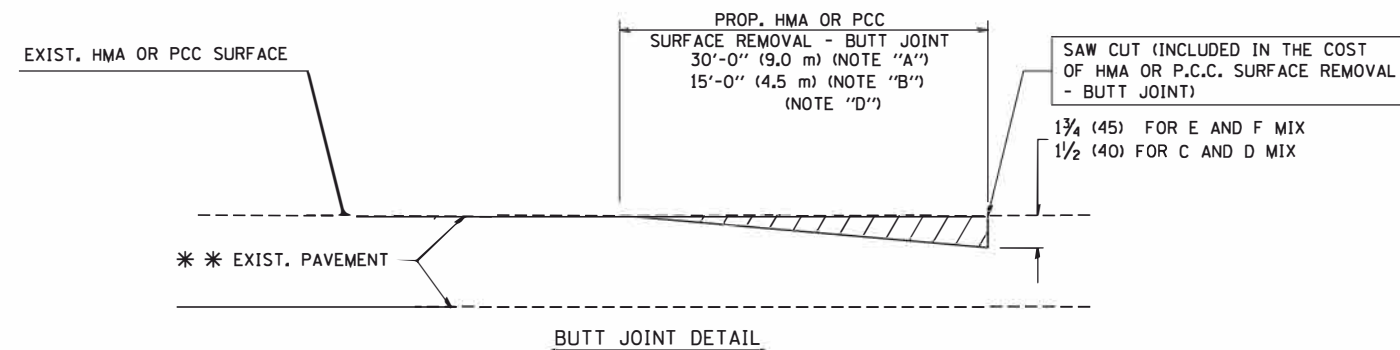


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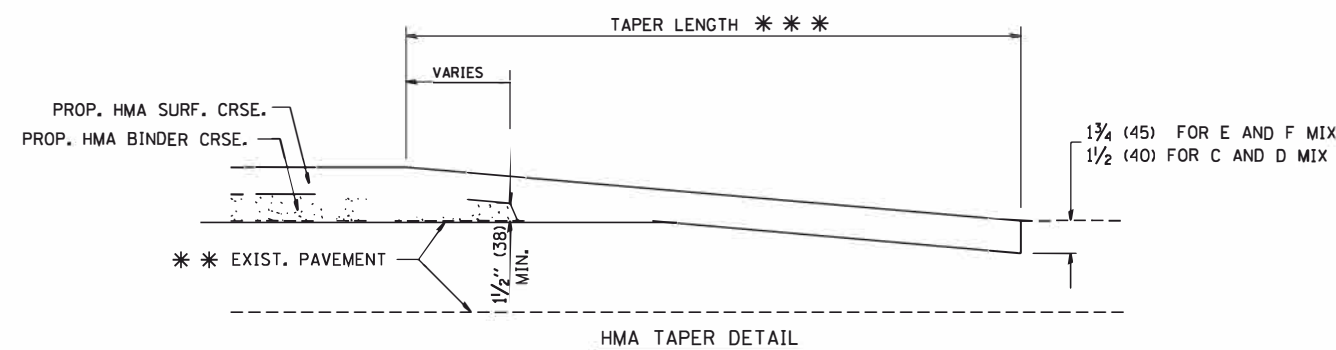
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

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

BASIS OF PAYMENT:

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

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

FILE NAME = W:\datastd\22x34\bd32.dgn

USER NAME = geglanoht
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/4/2008

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 06-13-90

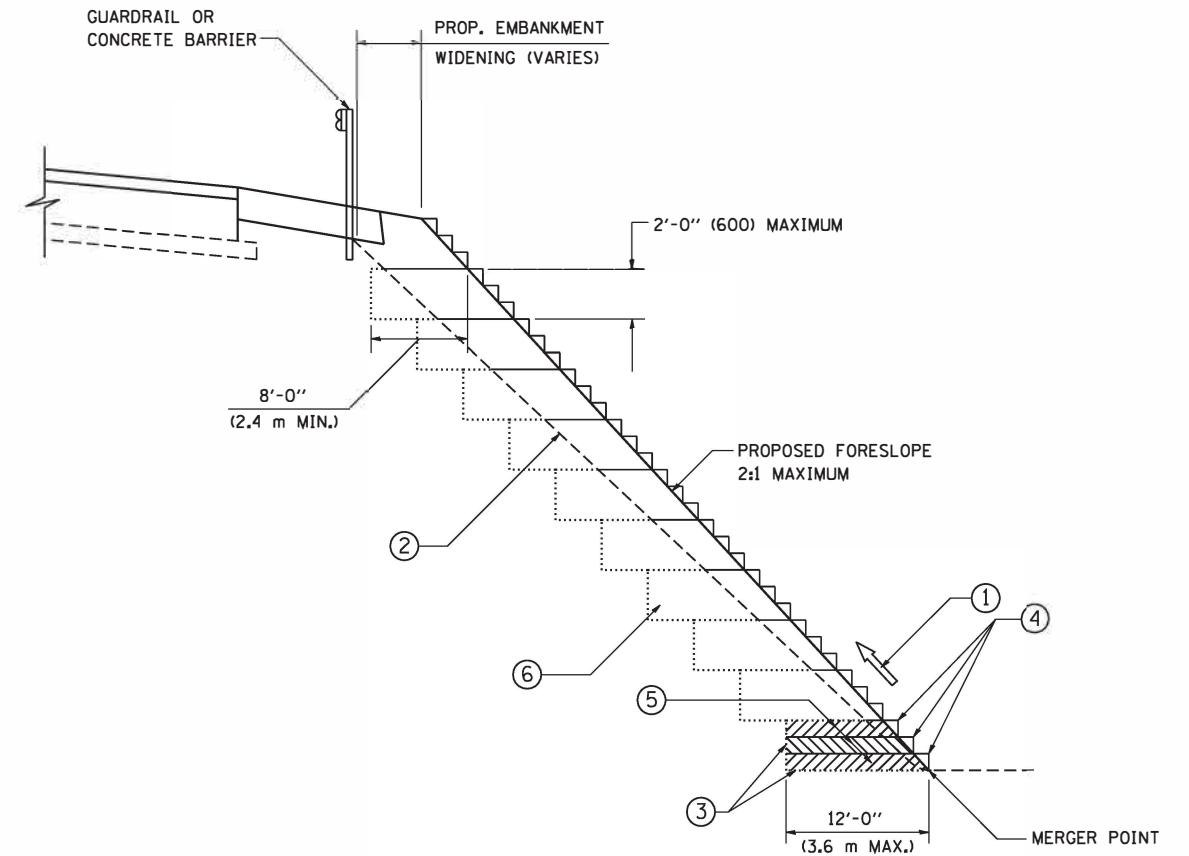
REVISED - R. SHAH 10-25-94
REVISED - A. ABBAS 03-21-97
REVISED - M. GOMEZ 04-06-01
REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHenry	106	74
BD400-05 BD32			CONTRACT NO. 62C34	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



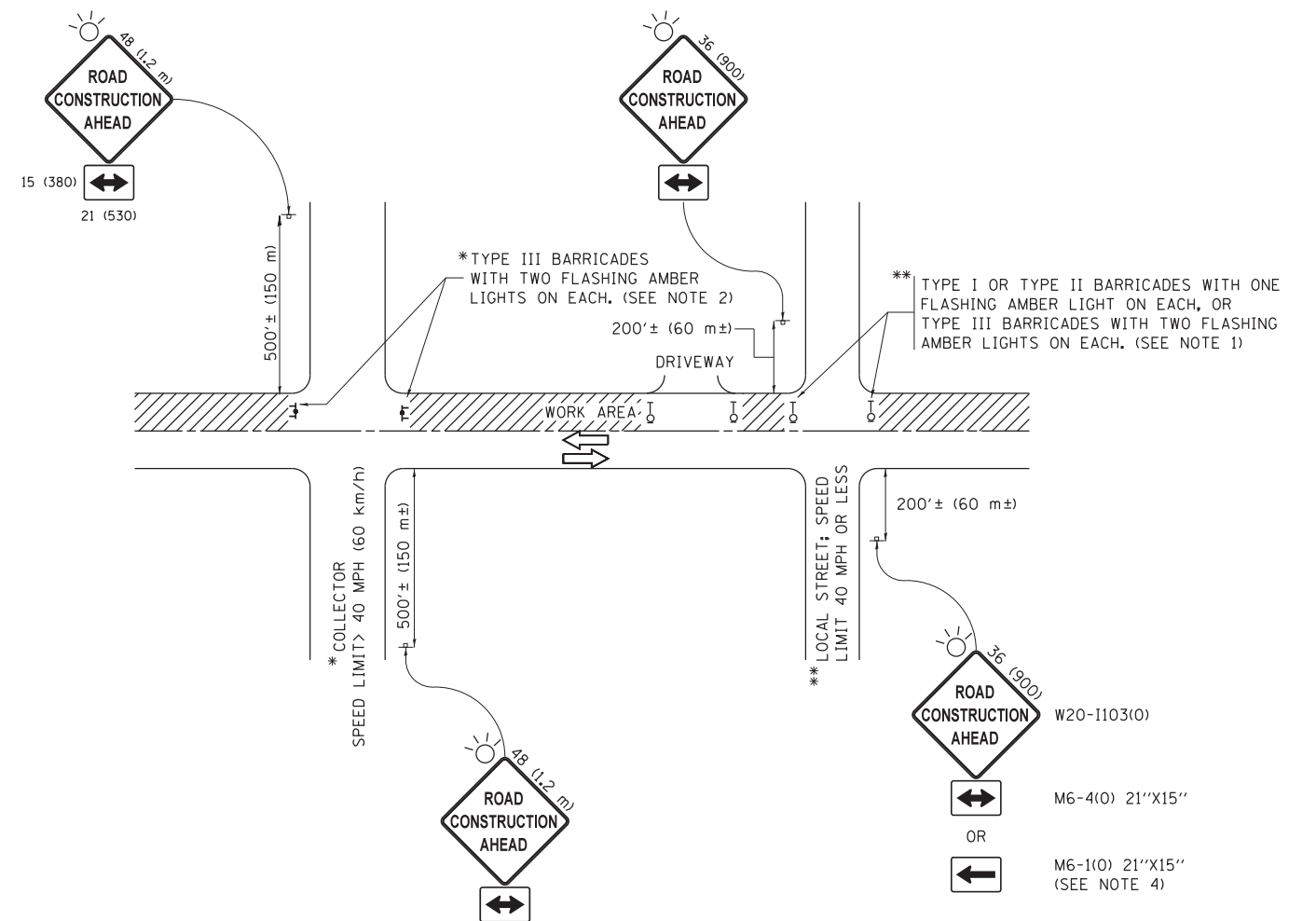
TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = gegl1anobt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BENCHING DETAIL FOR EMBANKMENT WIDENING		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN - CADD	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	326	104-N	McHenry	106
PLOT DATE = 1/4/2008	DATE = 06-16-04	CHECKED - S.E.B.	REVISED -				BD-51		CONTRACT NO. 62C34		
		DATE = 06-16-04	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

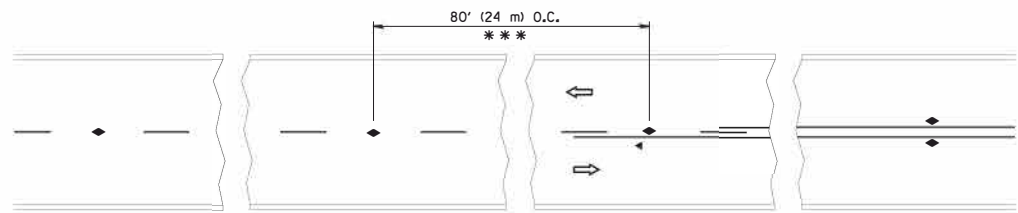
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p:\11084EBID\INTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\11084EBID\CADD\to\CAD\sheets\tc10.dgn			REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

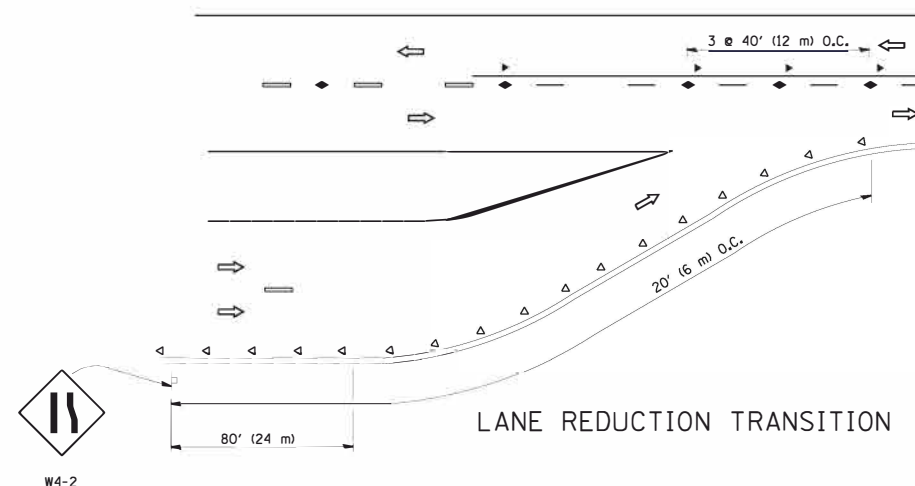
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

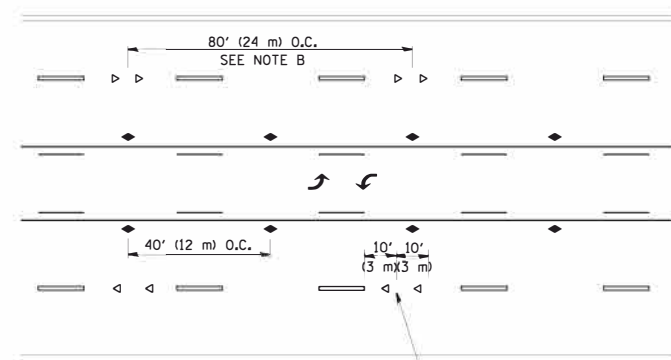


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

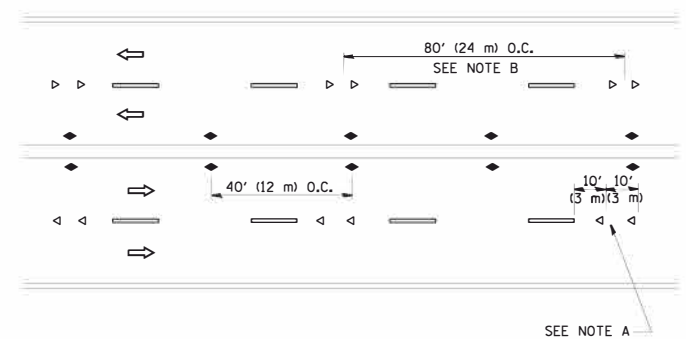
TWO-LANE/TWO-WAY



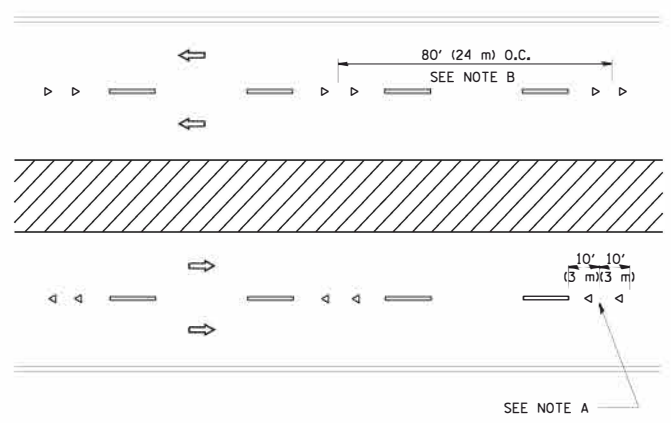
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

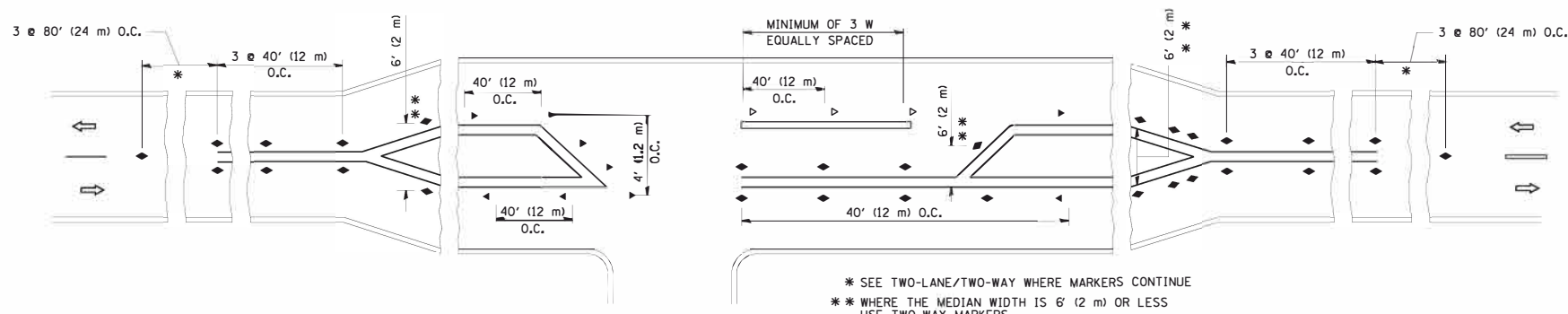
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



LEFT TURN

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

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

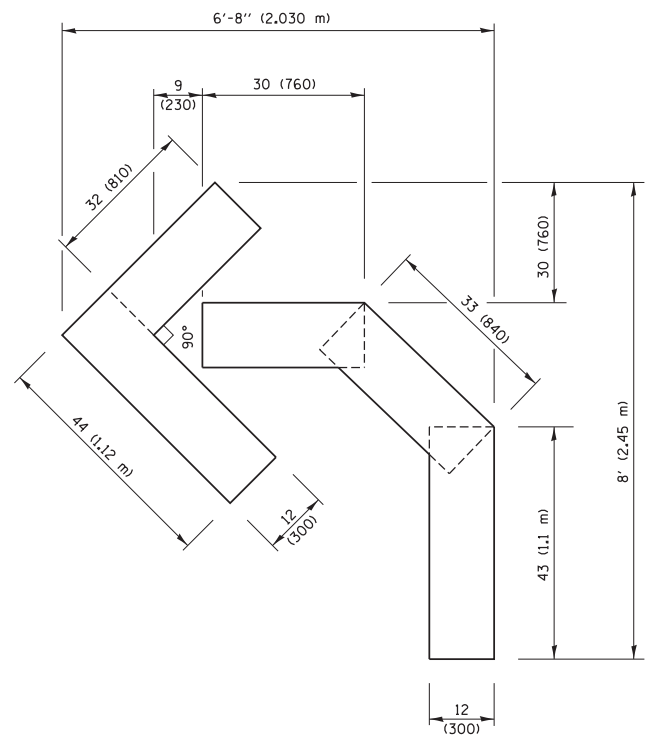
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

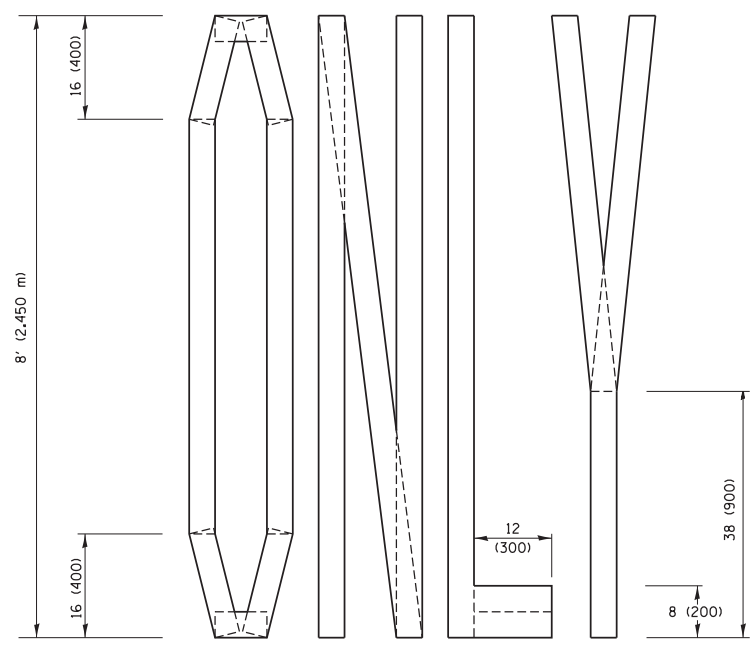
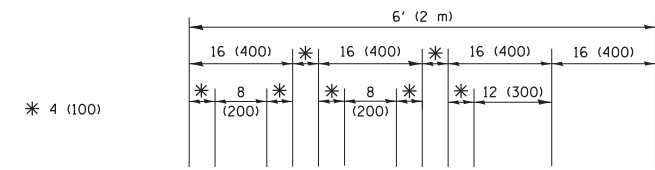
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHenry	106	77
TC-11		CONTRACT NO.	62C34	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

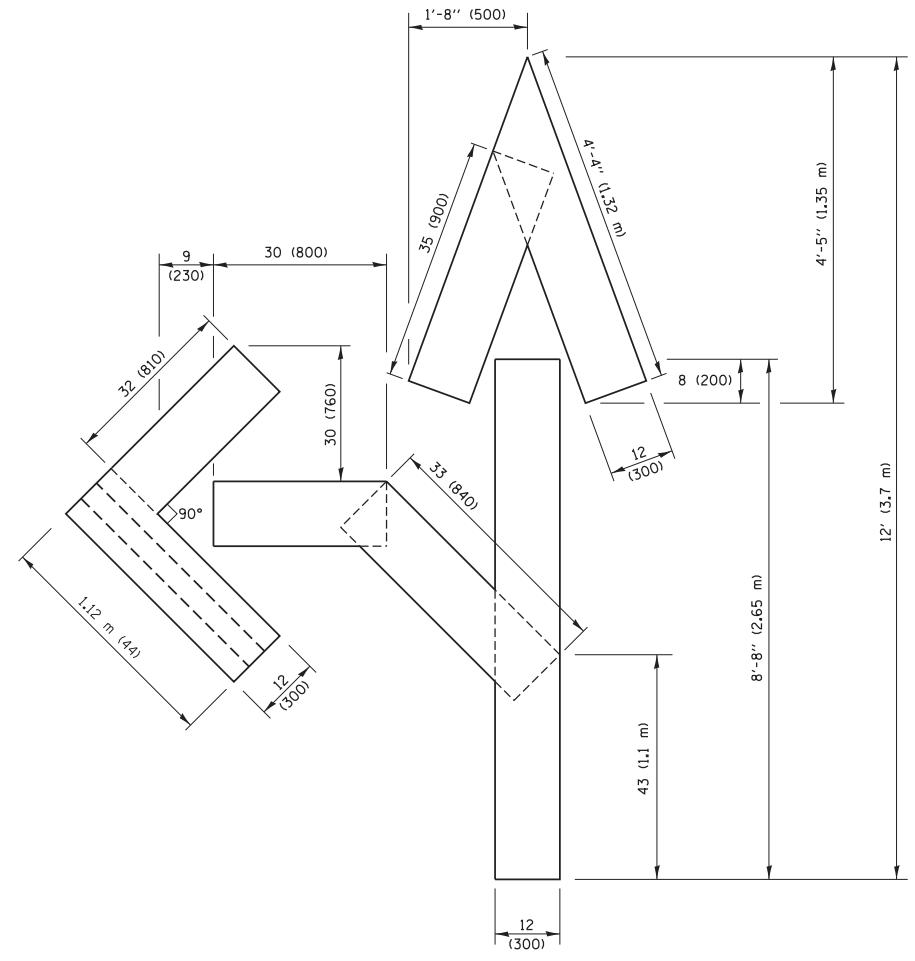
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

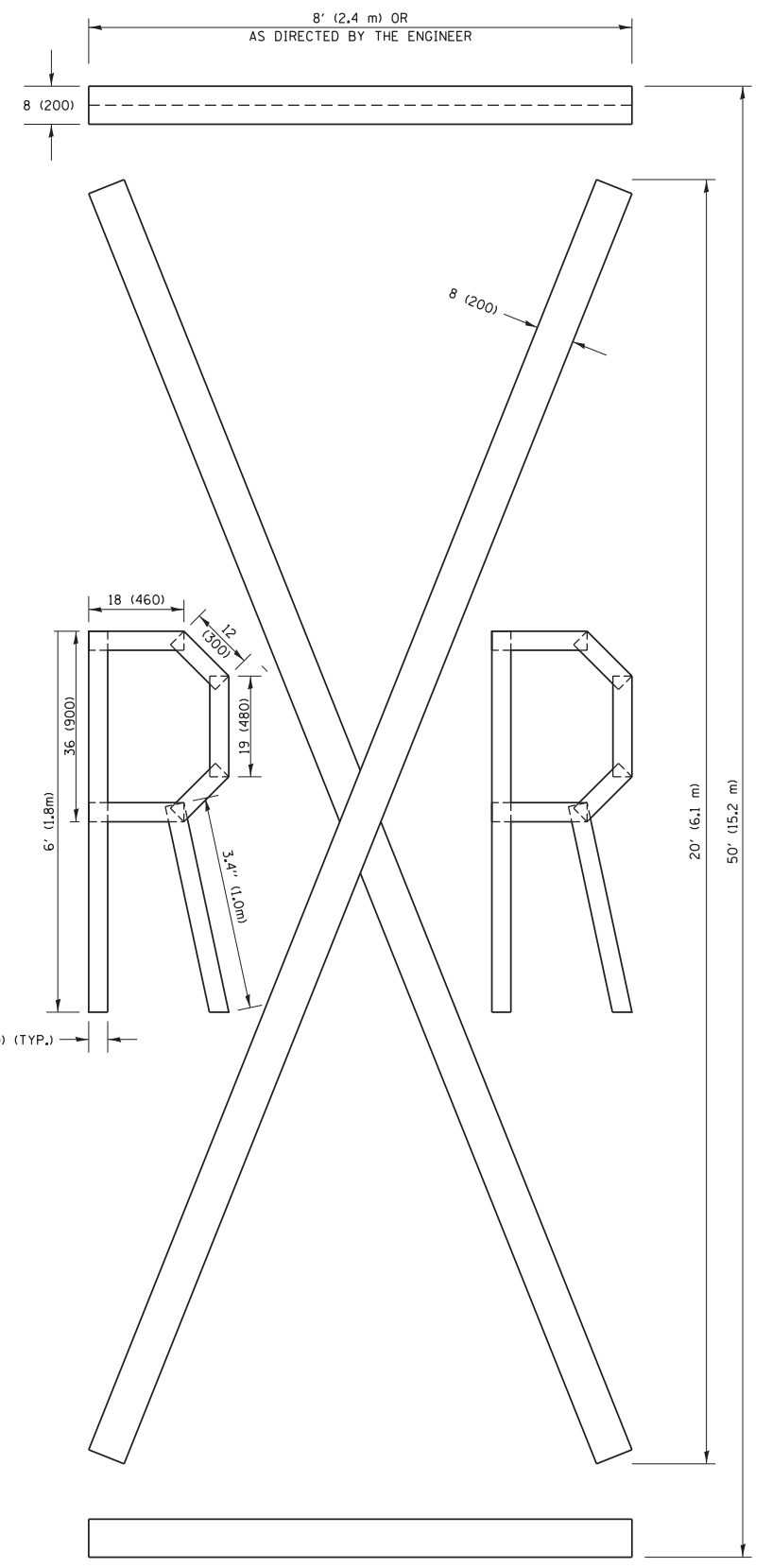


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

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




FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED -T. RAMMACHER 03-02-98
pw:\11\084EBIDINTEG\11\inois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBIDINTEG\CADD\Drawings\to16.dgn		CHECKED -	REVISED -E. GOMEZ 08-28-00
		DATE -	REVISED -E. GOMEZ 08-28-00
			REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**






SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHenry	106	79
TC-16			CONTRACT NO. 62C34	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				






ROUTE MARKERS

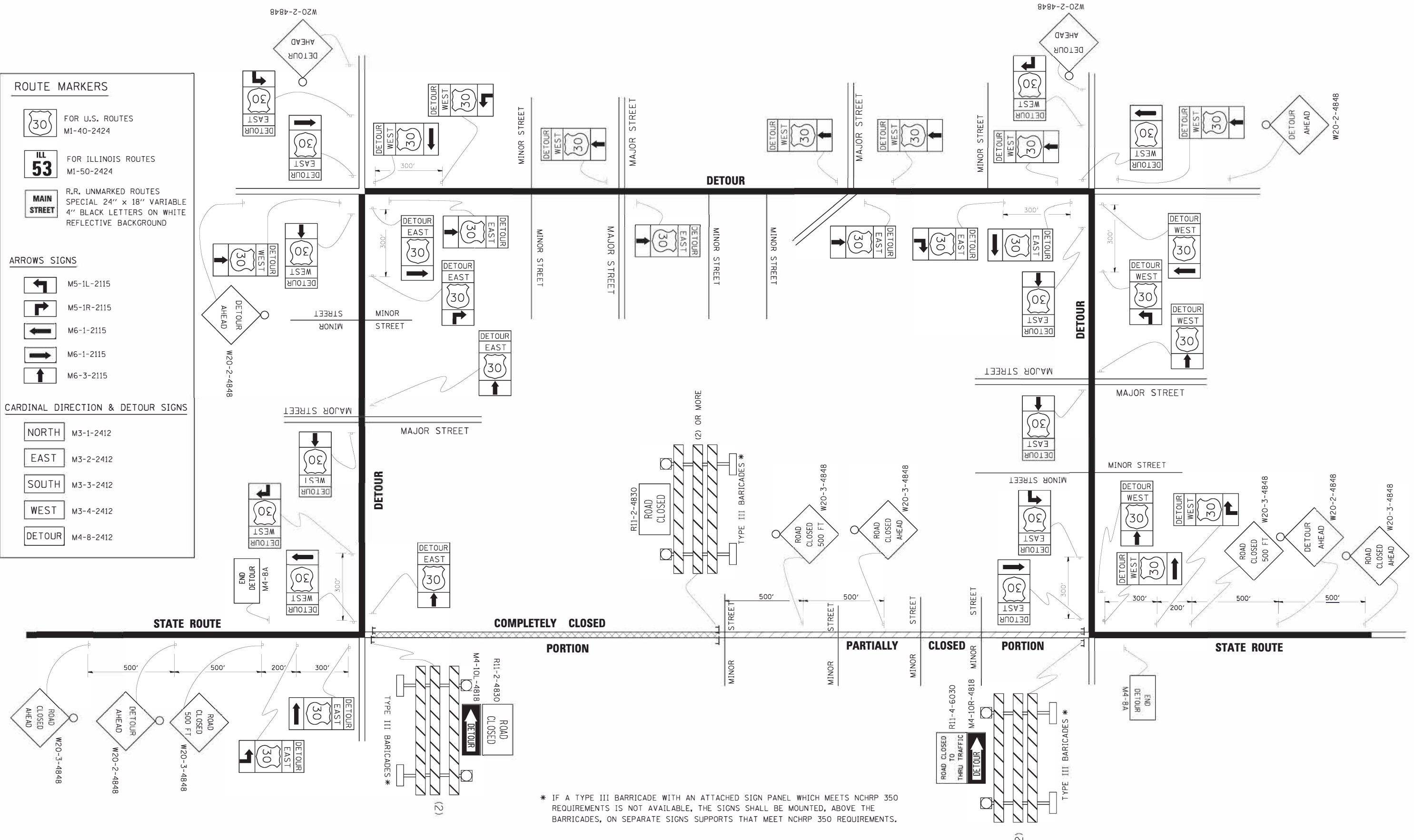
-  FOR U.S. ROUTES
M1-40-2424
-  FOR ILLINOIS ROUTES
M1-50-2424
-  R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

-  M5-1L-2115
-  M5-1R-2115
-  M6-1-2115
-  M6-1-2115
-  M6-3-2115

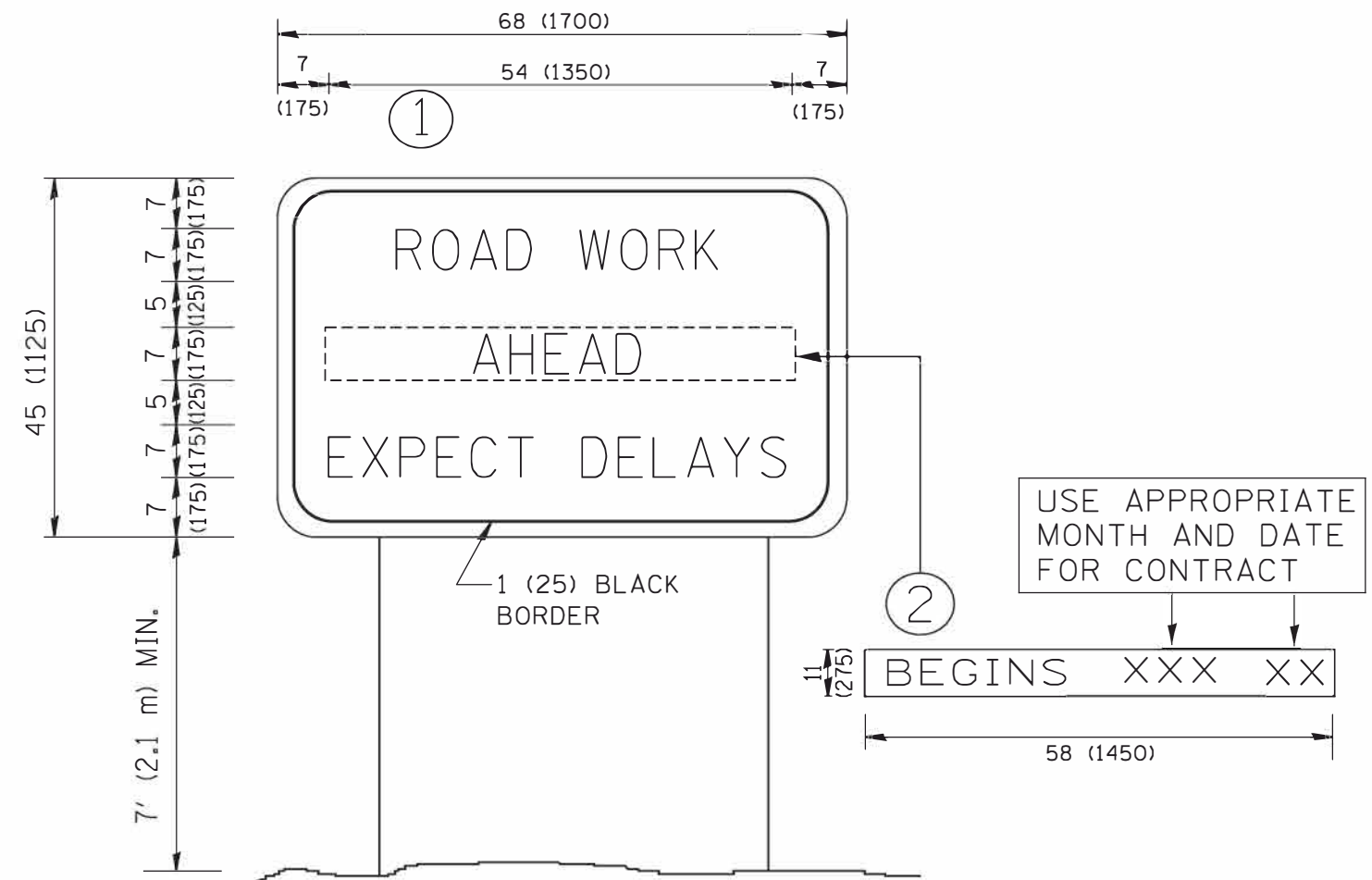
CARDINAL DIRECTION & DETOUR SIGNS

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



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

FILE NAME =	USER NAME = drvakosgn	DESIGNED =	REVISED = 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pwwork\p\WIDT\DRIVAKOSGN\0108315\1	21.dgn	DRAWN =	REVISED = R. BORO 09-14-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	326	104-N	McHenry	106	80
		CHECKED =	REVISED =					TC-21		CONTRACT NO. 62C34			
		DATE = 9/14/2009	REVISED =					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



NOTES:

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

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

FILE NAME = W:\d\stsd\22x34\tc22.dgn	USER NAME = geglanoht	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / 1IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

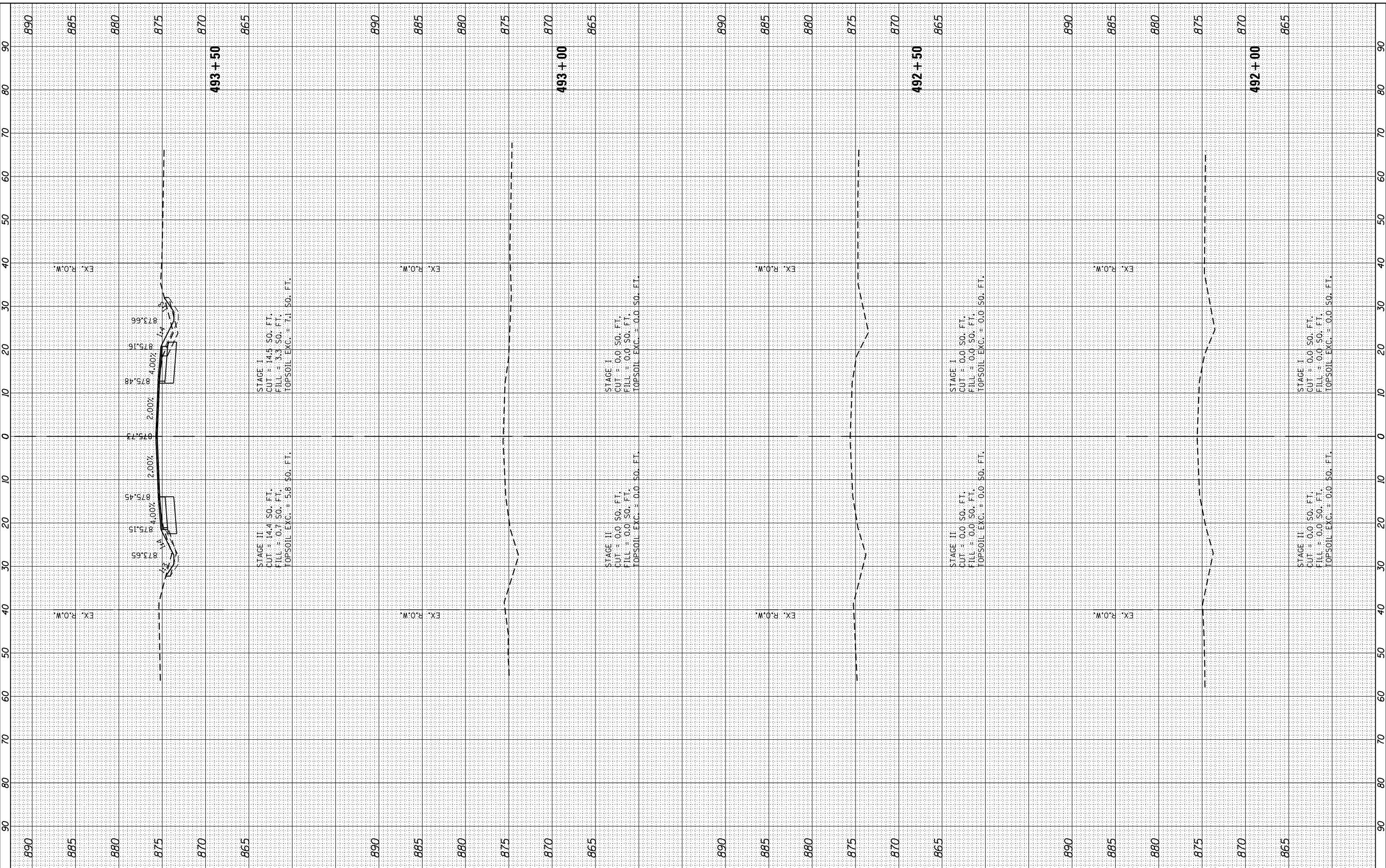
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	McHenry	106	81
TC-22			CONTRACT NO. 62C34	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	CHECKED		

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USER NAME = johnn	DESIGNED - JN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 10/13/2017	CHECKED - TGM	REVISED -
	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
CROSS SECTIONS**

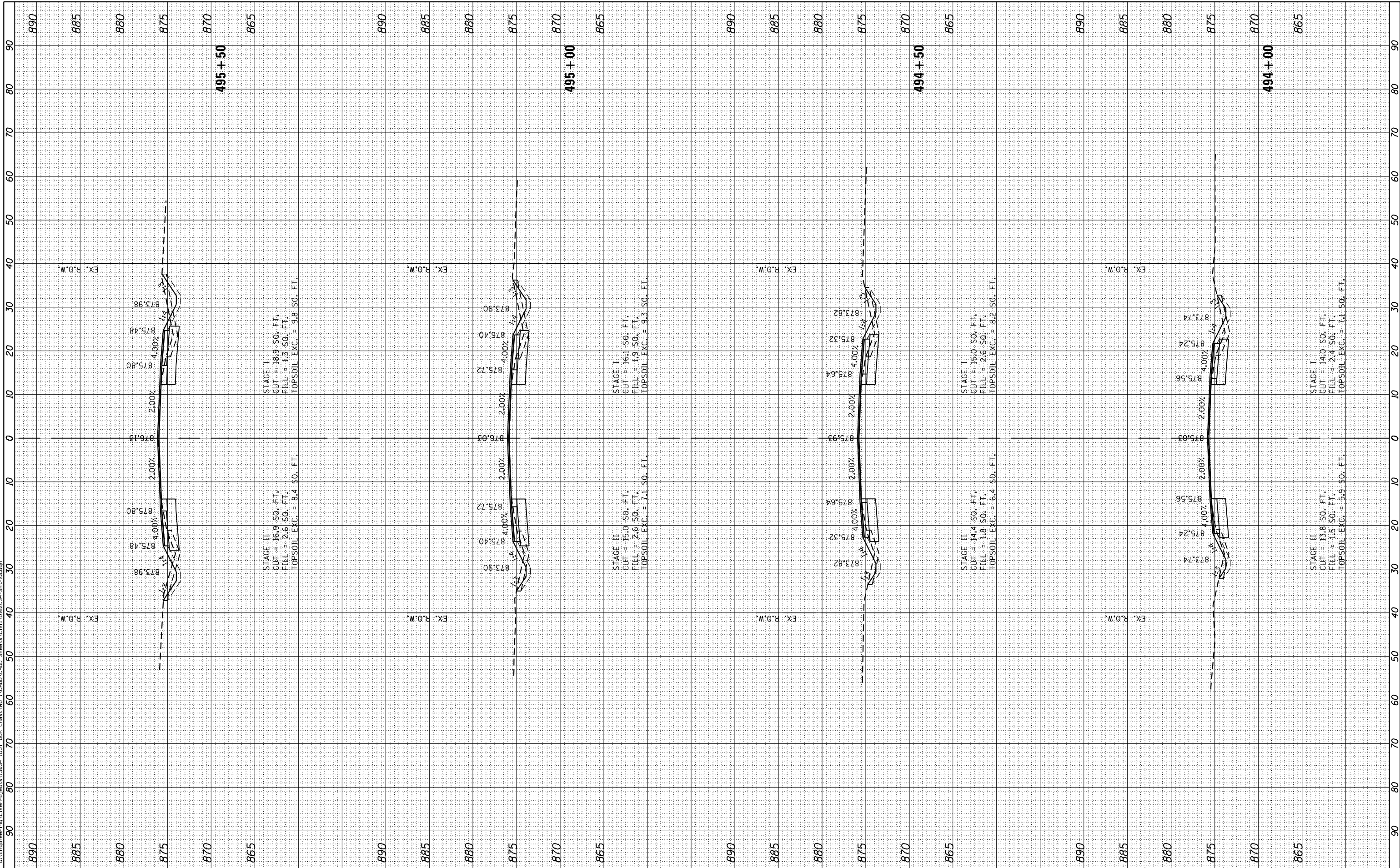
SCALE: SHEET OF SHEETS STA. 492+00 TO STA. 493+50

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 82
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 10/13/2017	CHECKED - TGM	REVISED -
	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
CROSS SECTIONS**

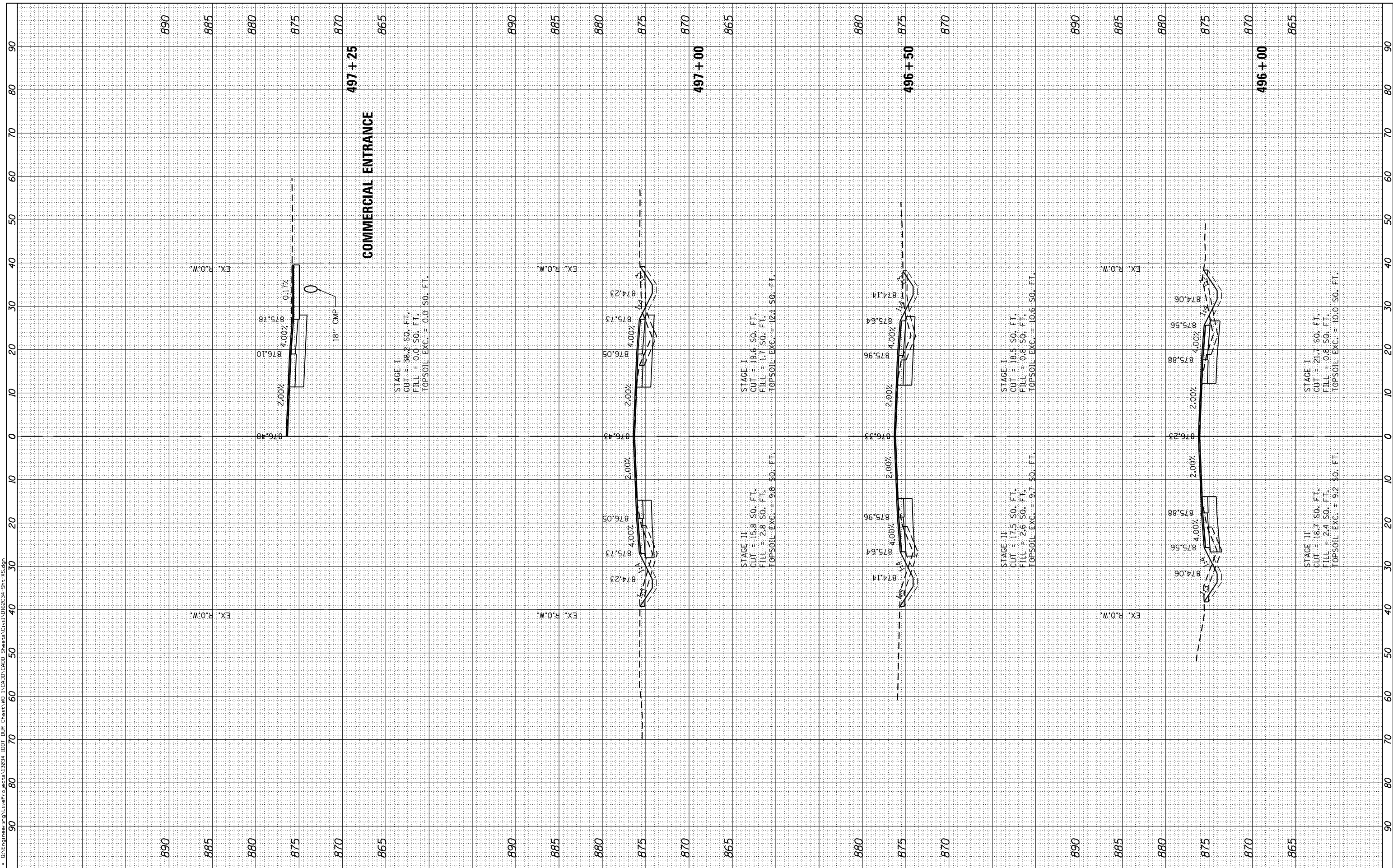
SCALE: SHEET OF SHEETS STA. 494+00 TO STA. 495+50

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 83
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

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PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 10/13/2017	CHECKED - TGM	REVISED -
	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

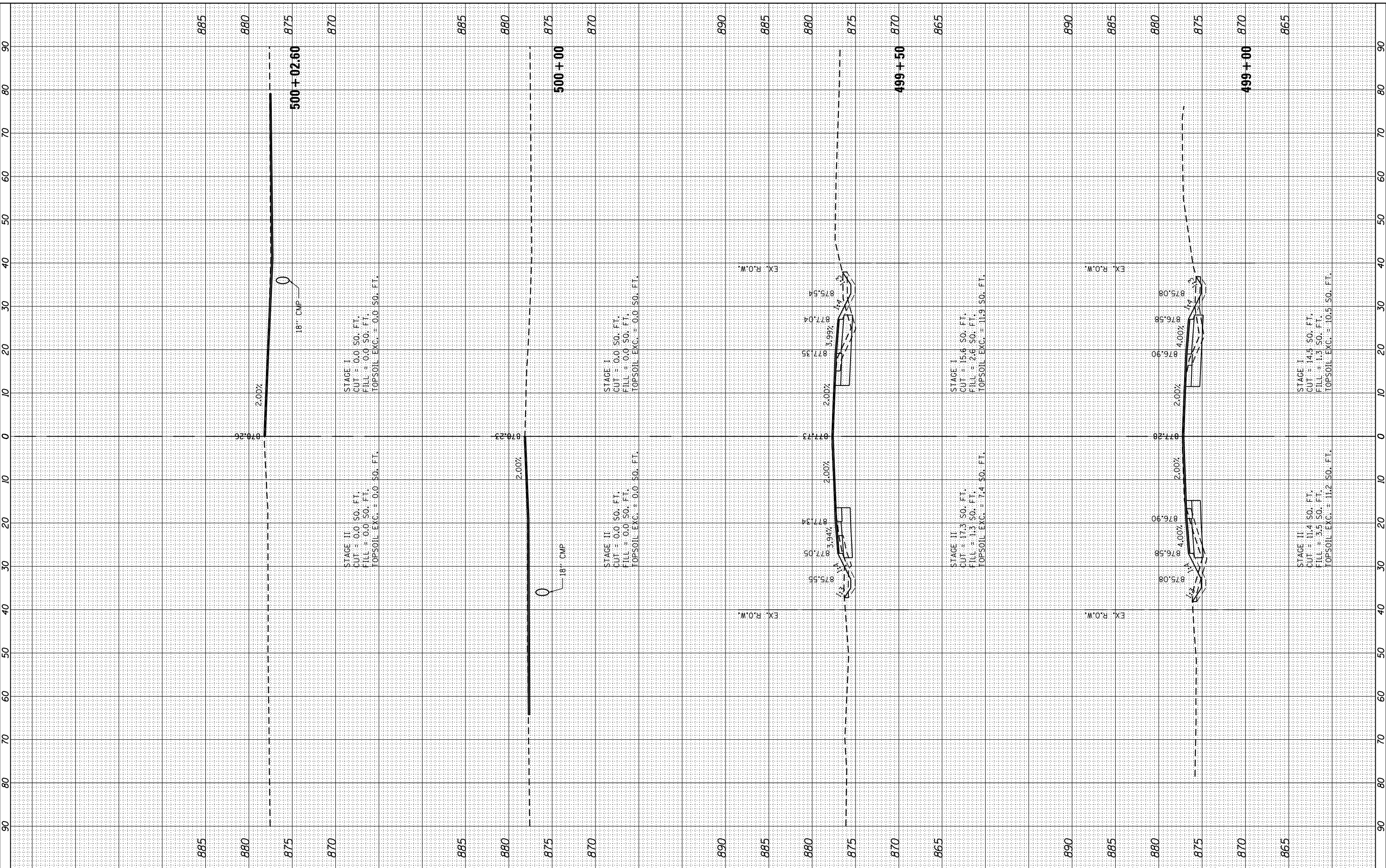
ILLINOIS ROUTE 47 AT THAYER ROAD CROSS SECTIONS	
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F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 84
CONTRACT NO. 62C34			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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PLOT DATE = 10/13/2017	CHECKED - TGM	REVISED -
	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
CROSS SECTIONS**

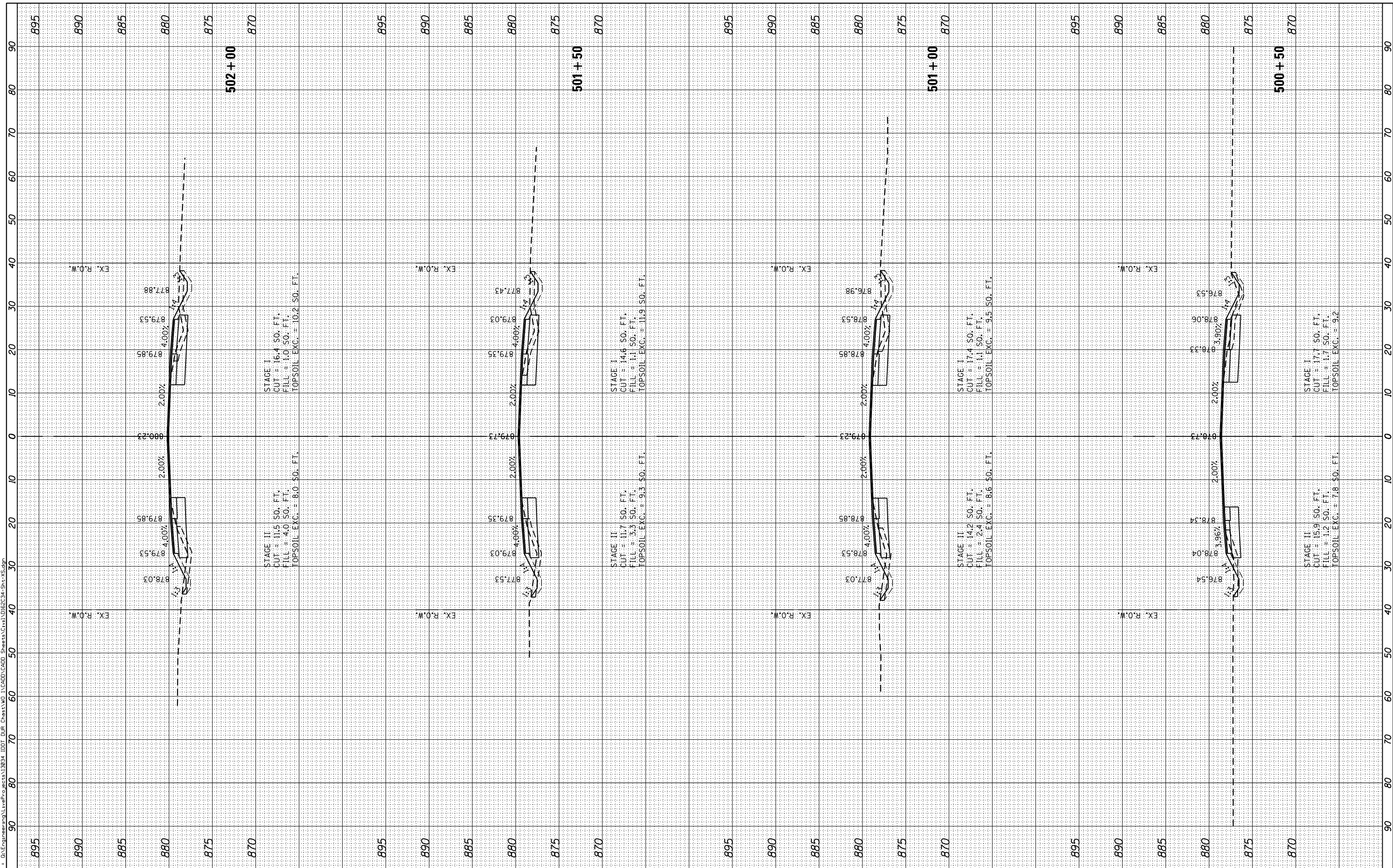
SCALE: SHEET OF SHEETS STA. 499+00 TO STA. 500+02

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 86
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

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USER NAME = johnn	DESIGNED - JN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 10/13/2017	CHECKED - TGM	REVISED -
	DATE - 10/13/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 47 AT THAYER ROAD
CROSS SECTIONS

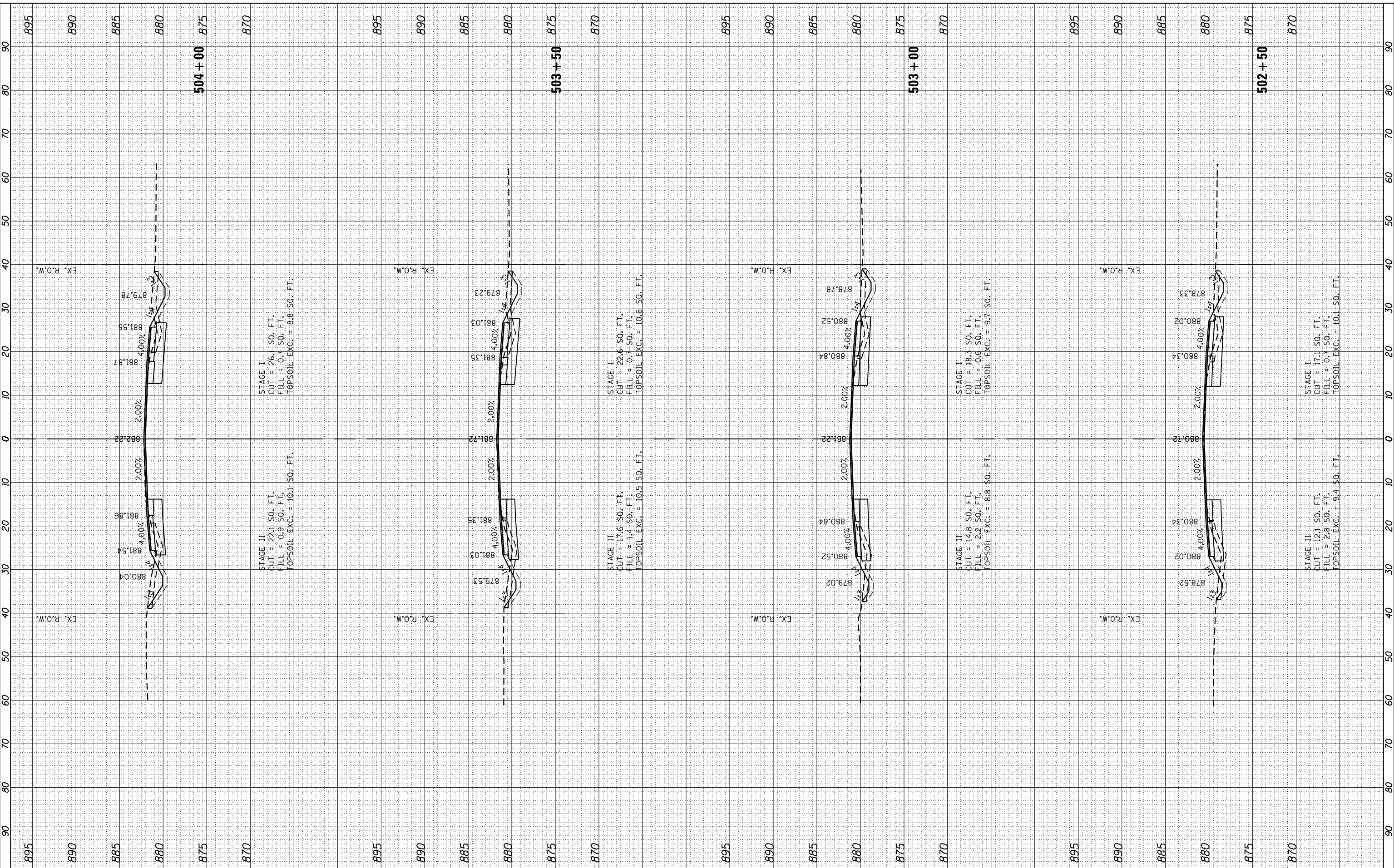
SCALE: SHEET OF SHEETS STA. 500+50 TO STA. 502+00

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 87
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

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	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

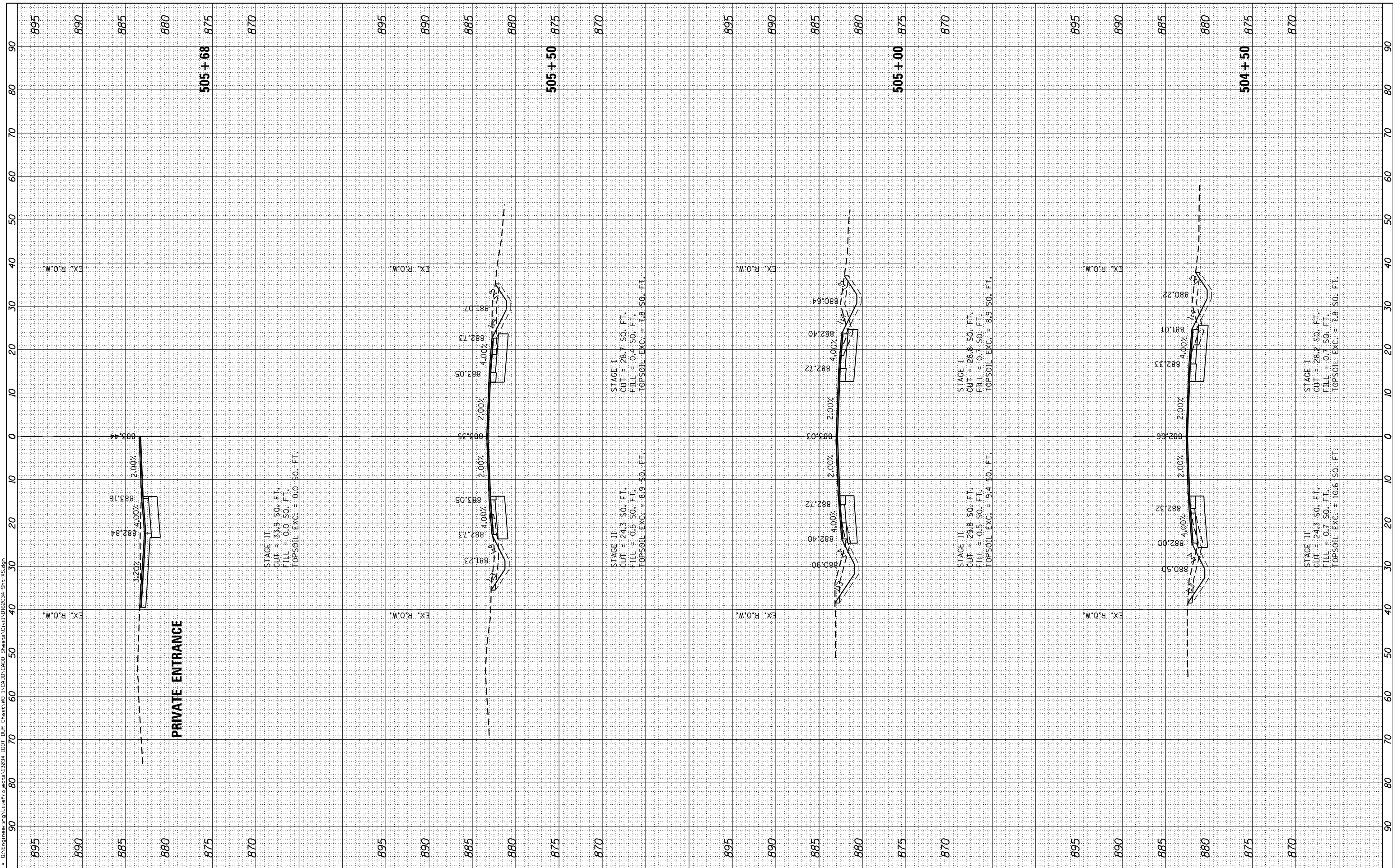
ILLINOIS ROUTE 47 AT THAYER ROAD CROSS SECTIONS	
SCALE:	SHEET OF SHEETS STA. 502+50 TO STA. 504+00

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 88
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

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USER NAME = johnn	DESIGNED - JN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 10/13/2017	CHECKED - TGM	REVISED -
	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
CROSS SECTIONS**

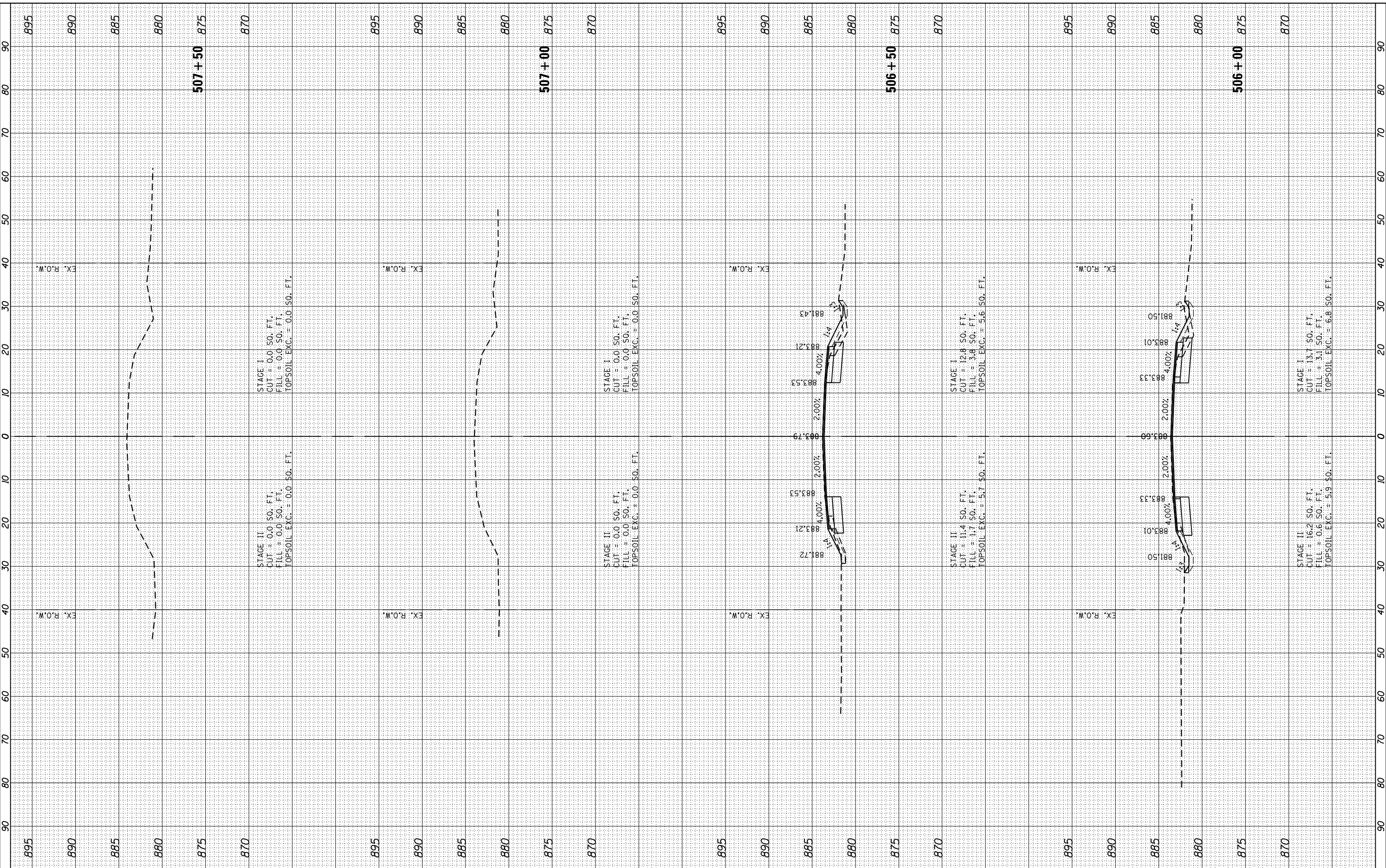
SCALE: SHEET OF SHEETS STA. 504+50 TO STA. 505+68

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 89
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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PLOT SCALE = 20.0000' / in.	DRAWN - JN	REVISED -
PLOT DATE = 10/13/2017	CHECKED - TGM	REVISED -
	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT THAYER ROAD
CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 506+00 TO STA. 507+50

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 90
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

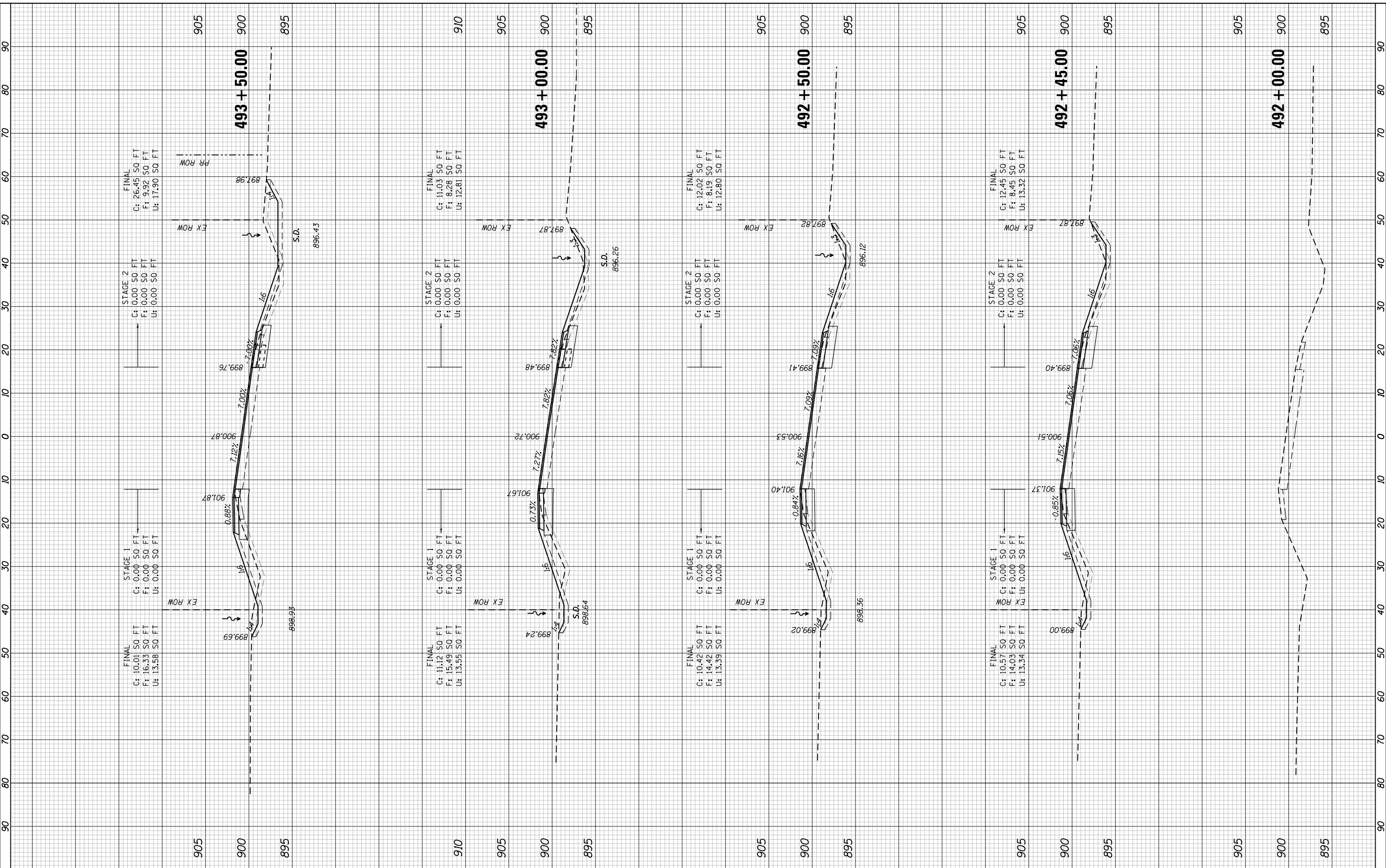
BY DATE
494 + 73.35

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BY DATE

ORIGINAL SURVEY SURVEYED PLOTTED TEMPLATE AREAS CHECKED

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CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 184-001397

USER NAME = dwoznarski
 DESIGNED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROAD
 CROSS SECTIONS - ILLINOIS ROUTE 47**

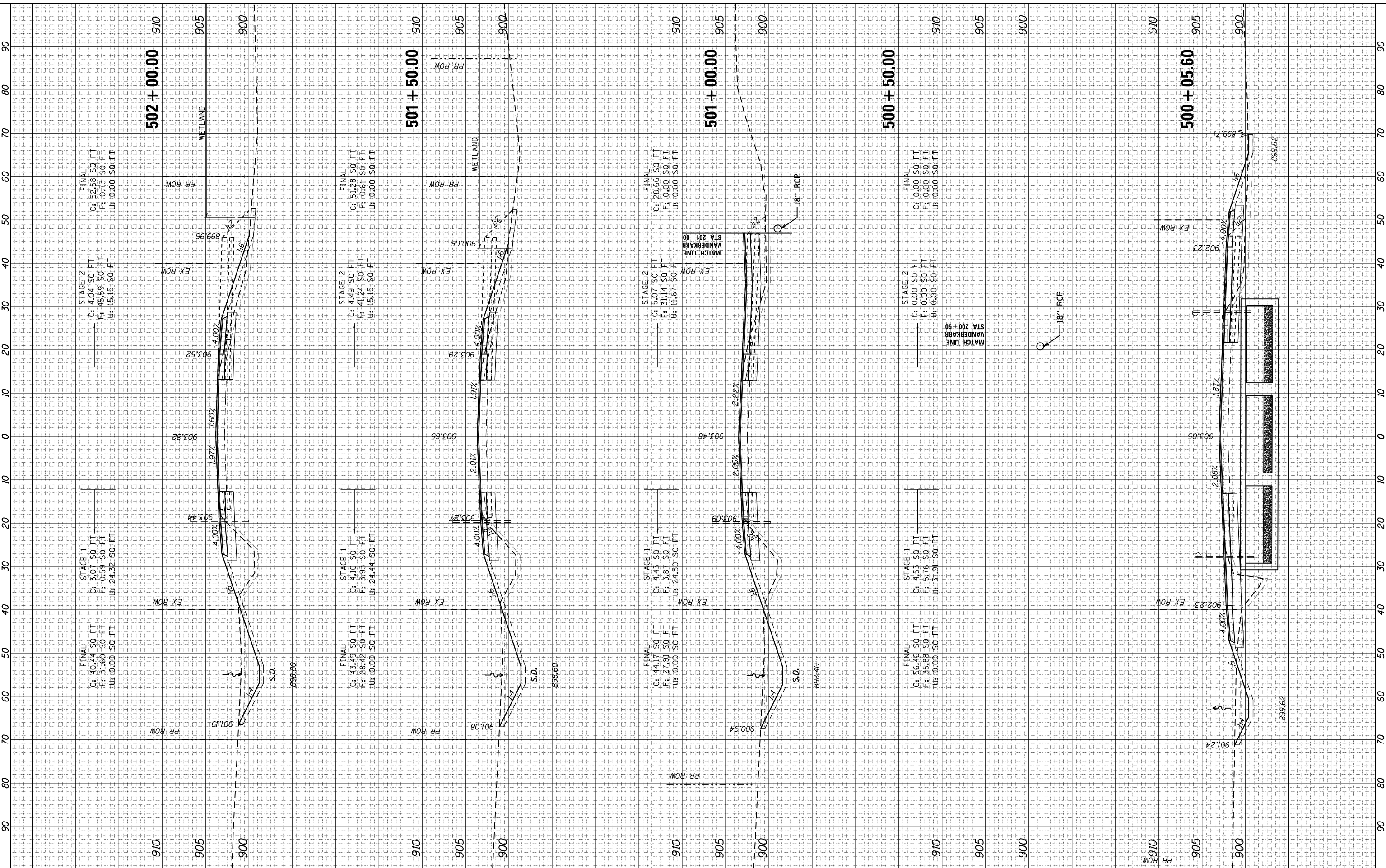
SCALE: 1:10H/1:5V SHEET 1 OF 8 SHEETS STA. 492+00.00 TO STA. 493+50.00

F.A.P. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	MCHENRY	106	91
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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 CONSULTING ENGINEERS
 184-001397

USER NAME = dwoznarski	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/12/2017	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROAD
CROSS SECTIONS - ILLINOIS ROUTE 47
 SCALE: 1:10H/1:5V SHEET OF SHEETS STA. 500+05.60 TO STA. 502+00.00

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 95
CONTRACT NO. 62C34				ILLINOIS FED. AID PROJECT

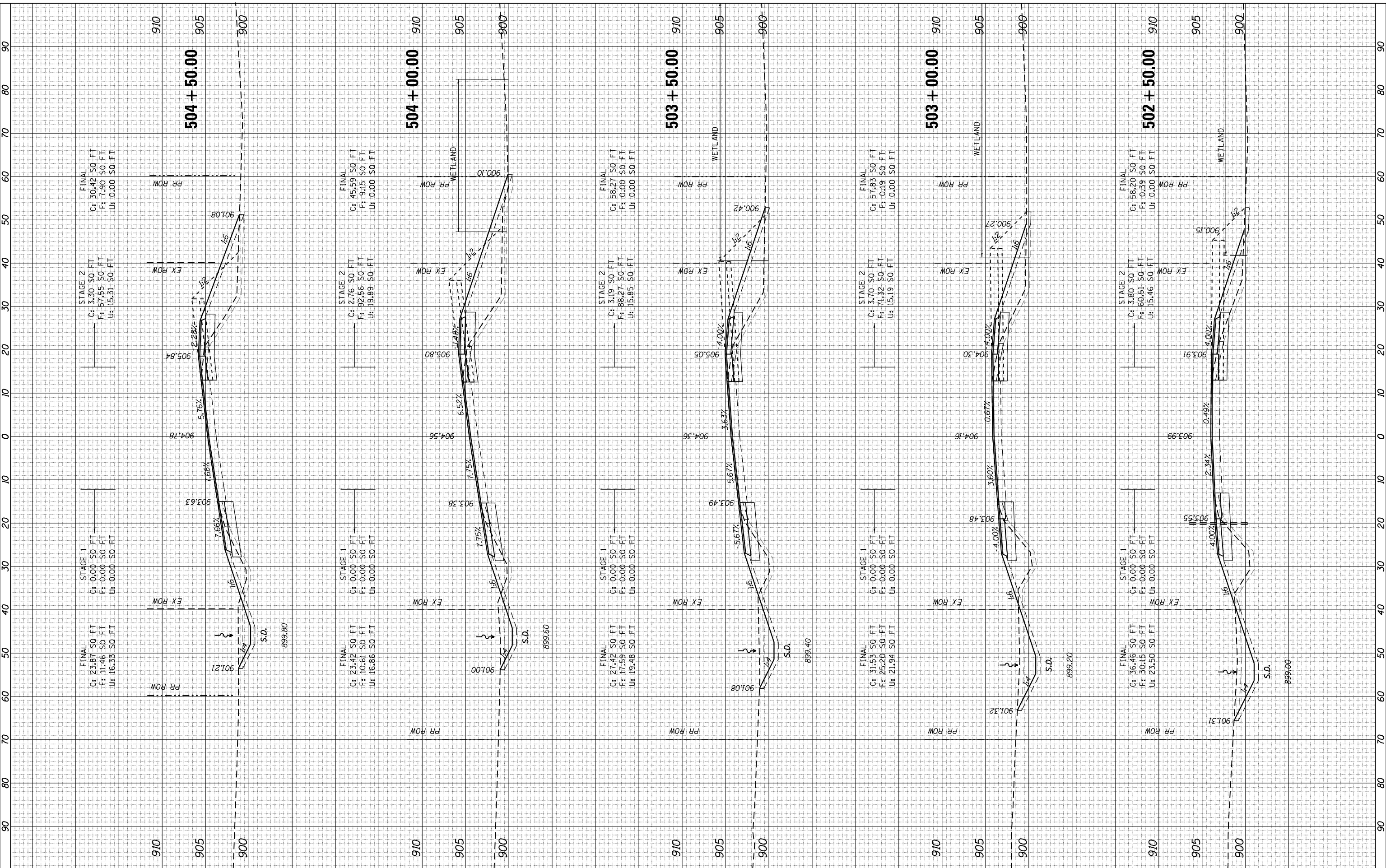
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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100-2014.tbl

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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = dwoznarski	DESIGNED -	REVISOR -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISOR -
PLOT DATE = 10/12/2017	CHECKED -	REVISOR -
	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROAD
CROSS SECTIONS - ILLINOIS ROUTE 47
SCALE: 1:10H/1:5V SHEET OF SHEETS STA. 502+50.00 TO STA. 504+50.00

F.A.P. RT. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 96
			CONTRACT NO. 62C34	
ILLINOIS FED. AID PROJECT				

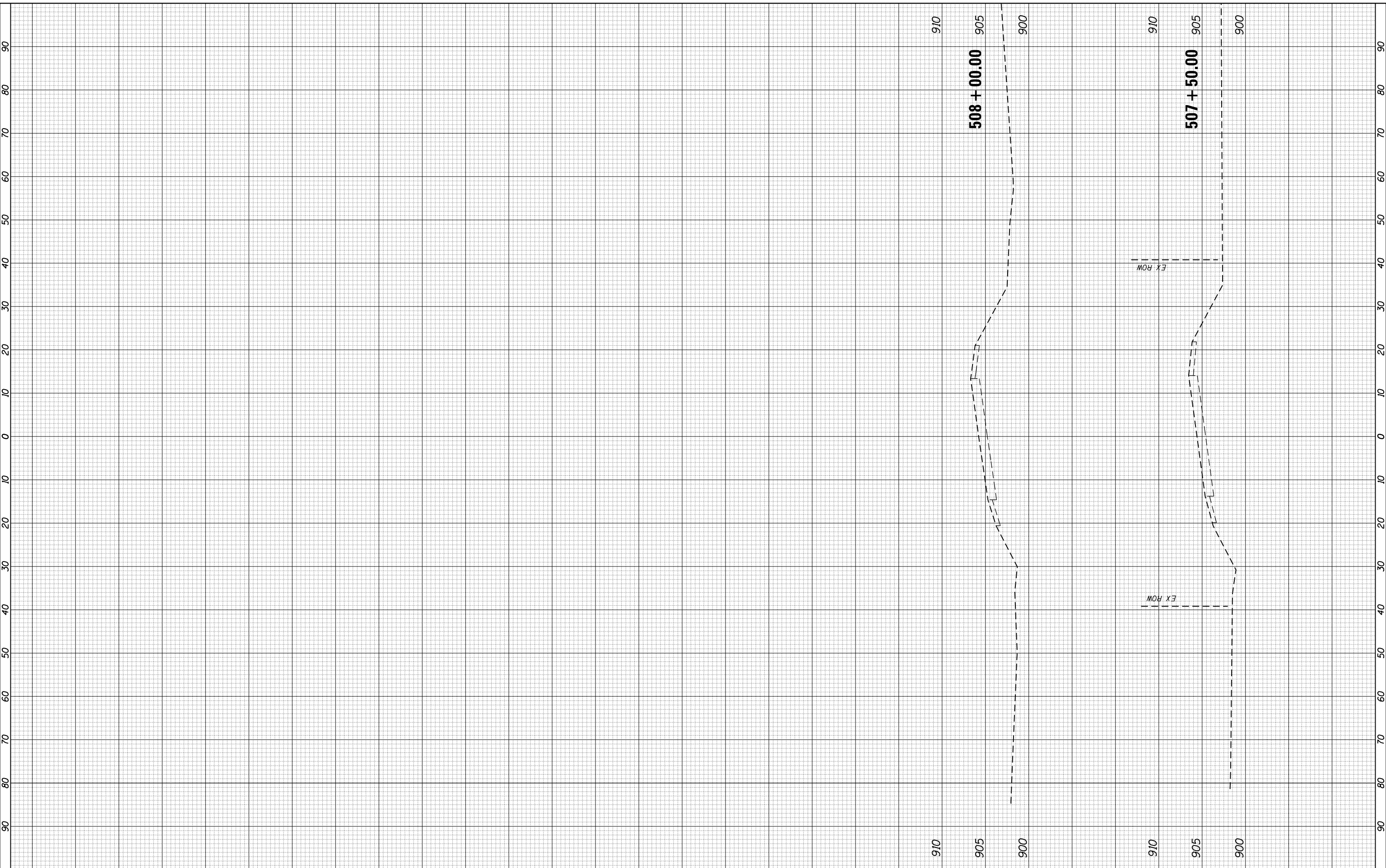
FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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CONSULTING ENGINEERS
184-001397

USER NAME = dwozniarski	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/12/2017	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

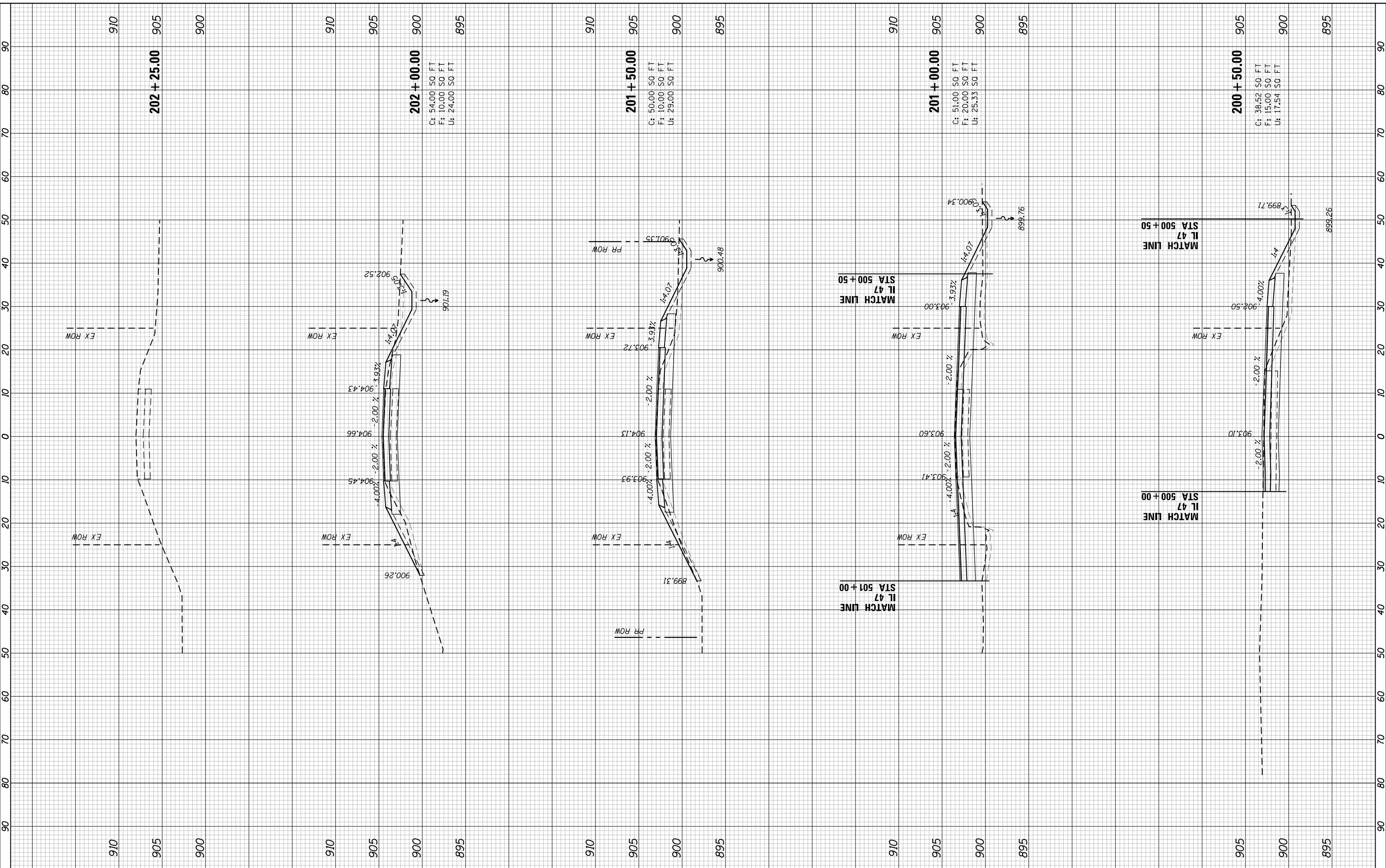
ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROAD
CROSS SECTIONS - ILLINOIS ROUTE 47
SCALE: 1:10H/1:5V SHEET OF SHEETS STA. 507+50.00 TO STA. 508+00.00

F.A.P. RTE. 326	SECTION 104-N	COUNTY MCHENRY	TOTAL SHEETS 106	SHEET NO. 98
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

NO.	NO.
ORIGINAL SURVEY	FINAL SURVEY
NOTE BOOK	NOTE BOOK
AREAS CHECKED	AREAS CHECKED
PLOTTED	PLOTTED
TEMPLATE	TEMPLATE
DATE	DATE
BY	BY

NO.	NO.
ORIGINAL SURVEY	FINAL SURVEY
NOTE BOOK	NOTE BOOK
AREAS CHECKED	AREAS CHECKED
PLOTTED	PLOTTED
TEMPLATE	TEMPLATE
DATE	DATE
BY	BY

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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = dwoznarski
DESIGNED -
DRAWN -
CHECKED -
DATE -

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REVISIED -
REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROAD
CROSS SECTIONS - VANDERKARR ROAD**

SCALE: 1:10H/1:5V SHEET OF SHEETS STA. 201+00.00 TO STA. 202+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	MCHENRY	106	100
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

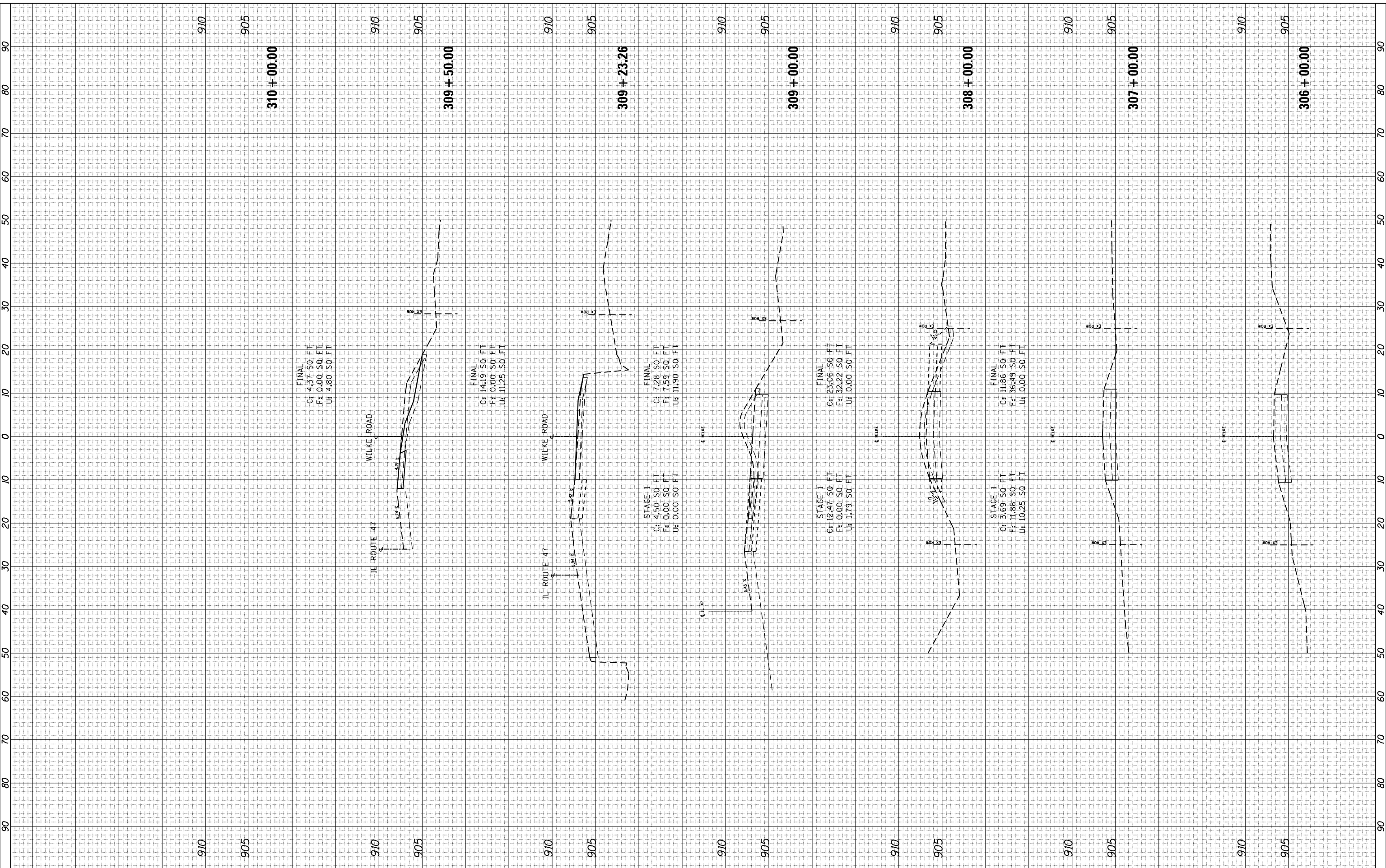
FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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104-2014.tbl

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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME	= dwoznarski
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT SCALE	= 20.0000' / in.
PLOT DATE	= 10/12/2017

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 47 AT O'BRIEN /VANDERKARR ROAD CROSS SECTIONS - WILKE ROAD			
SCALE: 1:10H/1:5V	SHEET	OF	SHEETS
STA. 306+00.00	TO	STA. 310+00.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	104-N	MCHENRY	106	101
CONTRACT NO. 62C34				
ILLINOIS FED. AID PROJECT				

