87+4=91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE ☆ 87		1

CONTRACT #60B95

D-91-049-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGE OF GLEN ELLYN AND THE VILLAGE OF LOMBARD

PROJECT DESCRIPTION

THIS WORK INCLUDES REMOVAL OF EXISTING PAVEMENT, COMPLETE PAVEMENT RECONSTRUCTION, AND EARTH EXCAVATION OF COMPENSATORY STORAGE AREAS (2).

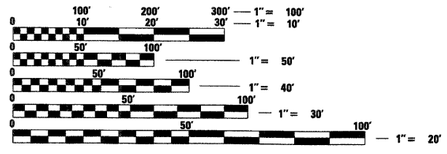
STRUCTURAL WORK INCLUDES REMOVAL OF THE EXISTING STRUCTURE, STRUCTURE EXCAVATION, CONSTRUCTION OF A NEW BRIDGE, AND APPROACH SLABS.

DESIGN DESIGNATION

URBAN OTHER PRINCIPAL ARTERIAL (TWS-2)

TRAFFIC VOLUMES AND SPEEDS

ADT	DESIGN SPEED	POSTED SPEED
35,000 (2030)	45 MPH	40 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

CONTRACT NO. 60B95

IDOT Project Manager: Brian Kuttab (847) 705-4431 (District 1)

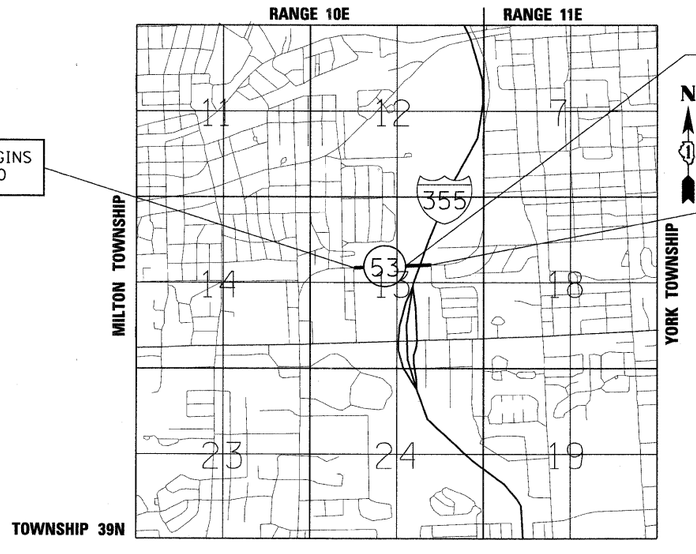
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 870 (ILLINOIS 53)
OVER EAST BRANCH DUPAGE RIVER

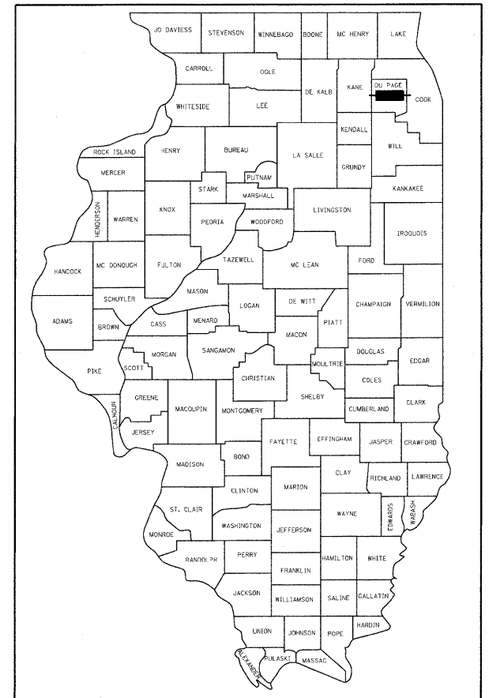
BRIDGE REPLACEMENT &
APPROACH ROADWAY RECONSTRUCTION
SECTION 533 X-B-R-1

PROJECT : F-0870(010)
DUPAGE COUNTY
C-91-049-07



LOCATION MAP
(N.T.S.)

NET LENGTH OF PROJECT 1,300 ft. = 0.25 mi.
GROSS LENGTH OF PROJECT 1,300 ft. = 0.25 mi.



LOCATION OF SECTION INDICATED THUS: –

PHILIP J. MINGA
062-045292
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

SIGNED Philip J. Minga
DATE August 15, 2008
EXPIRES November 30, 2009
FOR DRAWINGS ALL OTHER DRAWINGS

JAMES S. SZCZUPAJ
081-005608
LICENSED STRUCTURAL ENGINEER
ILLINOIS

SIGNED James S. Szczupaj
DATE August 15, 2008
EXPIRES November 30, 2008
FOR DRAWINGS STR-1 TO STR-26

CECIL D. STOVALL
062-052253
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

SIGNED Cecil D. Stovall
DATE August 15, 2008
EXPIRES November 30, 2008
FOR DRAWINGS LTG-1 TO LTG-4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 7/28 2008
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER
December 5, 2008
Eric E. Harm
Interim ENGINEER OF DESIGN AND ENVIRONMENT
December 5, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

JE JACOBS
ONE NORTH FRANKLIN
SUITE 500
CHICAGO, IL 60606
312-251-3000

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

IDOT DISTRICT ONE CADD DETAILS

BD-32	BUTT JOINTS AND HMA TAPER DETAILS
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	PAVEMENT MARKINGS LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

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001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEM
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATES FOR BRIDGES
601001-03	SUB-SURFACE DRAINS
630001-08	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE I SPECIAL TRAFFIC BARRIER TERMINAL
631011-05	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-07	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
638001-02	GLARE SCREEN, BLADES
664001-02	CHAIN LINK FENCE
701001-02	OFF-ROAD OPERATIONS, 2L 2W, MORE THAN 4.5 M (15') AWAY
701006-03	OFF-ROAD OPERATIONS , 2L 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS , 2L 2W, DAY ONLY
701201-03	LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS > OR = 45 MPH
701301-03	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L 2W, MOVING OPERATIONS-DAY ONLY
701321-10	LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
701501-05	URBAN LANE CLOSURE, 2L 2W, UNDIVIDED
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
780001-02	TYPICAL PAVEMENT MARKINGS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF ALL UNDERGROUND FACILITIES INCLUDING BURIED ELECTRIC, TELEPHONE, WATER, SEWER AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. WHERE SECTION AND SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER OR AN AUTHORIZED SURVEYOR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE, IF PROVIDED, SHOWS PLACEMENT OF RIGHT OF WAY MARKERS SHALL REMAIN UNDISTURBED.
3. THE CONTRACTOR SHALL NOT SET UP A YARD OR FIELD OFFICE ON I.D.O.T. PROPERTY WITHOUT WRITTEN PERMISSION FROM I.D.O.T.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
5. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND THE ADJOINING COMMERCIAL AND RESIDENTIAL AREAS.
6. ALL ELEVATIONS IN THIS PLAN SET REFER TO NAVAD88.
7. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
8. THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF ALL ROADWAYS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTORS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, INLETS AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL INSTALLATION IS COMPLETE INCLUDING PAVEMENT. THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
9. ALL STORM SEWER CONNECTIONS WITH PIPES 27 INCH DIAMETER AND SMALLER SHALL BE MADE WITH PRECAST "TEE" OR "WYE" PIPES. FOR PROPOSED STORM SEWER PIPES LARGER THAN 27 INCH DIAMETER, OPENINGS OF THE SPECIFIED DIAMETER SHALL BE MADE IN THE PIPE AT THE SAME TIME IT IS MANUFACTURED. PRECAST "TEE" OR "WYE" PIPE CONNECTIONS FOR THE PROPOSED STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST FOR THE STORM SEWER.
10. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MILES PER HOUR OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MILES PER HOUR. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
11. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
12. HOT-MIX ASPHALT QUANTITIES ARE BASED ON A UNIT WEIGHT OF 112 LB/SQ YD/IN FOR BINDER AND SURFACE COURSES.
13. LOCATIONS OF ACCESS CONTROL FENCING AS SHOWN ON HE PLANS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO BETTER FIT FIELD CONDITIONS.
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED FENCING OR WHERE PROPOSED FENCING TERMINATES AND EXISTING FENCE REMAINS IN PLACE.
15. TEN FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
16. TEMPORARY CONCRETE BARRIER - THE BARRIER UNIT AT EACH END OF THE INSTALLATIONS SHALL BE SECURED TO THE PAVEMENT OR SHOULDER USING THREE ANCHORING PINS FOR F SHAPE OR 'THREE DOWEL BARS.
17. TEMPORARY CONCRETE BARRIER - THE BARRIER SHALL BE ANCHORED TO THE PAVEMENT AND/OR BRIDGE DECK BETWEEN STAGING.

[ ] INDICATES THAT THE ITEM IS INCLUDED IN THE COST OF ANOTHER ITEM

18. THE LOCAL AGENCIES REQUIRE A 1-WEEK ADVANCE NOTICE PRIOR TO CHANGING TRAFFIC STAGES. THE CONTRACTOR MUST CONTACT JOE CARACCI AT VILLAGE OF GLEN ELLYN, 630-469-6756 EXT-5515
19. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.
20. BEFORE ORDERING STORM SEWERS, CATCH BASINS, PIPE CULVERTS, PIPE DRAINS, AND MANHOLES, THE CONTRACTOR SHALL CONTACT THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.
21. AT LEAST (2) TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKING, CONTACT WALTER CZARNI, AREA TRAFFIC FIELD ENGINEER AT 773-685-8386
22. THE ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.
23. THE CONTRACTOR'S ATTENTION CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE TO THE VILLAGE OF GLEN ELLYN, THE VILLAGE OF LOMBARD AND THE FOREST PRESERVE DISTRICT OF DUPAGE COUNTY. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
24. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A 'TREE PROTECTION ZONE' BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE" REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
25. THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING ANY EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. HAND EXCAVATION SHALL BE PREFORMED IN MAJOR ROOTS ARE PRESENT. MAJOR ROOTS OF A TREE THAT ARE TO REMAIN IN PLACE EXTENDING INTO THE EXCAVATION AREAS AT THAN ELEVATION THAT WOULD INTERFERE WITH ANY PORTION OF THE PLANNED CONSTRUCTION SHALL BE SEVERED AT A POINT IMMEDIATELY OUTSIDE OF THE EXCAVATION AREA IN A MANNER THAT WILL CAUSE THE LEAST AMOUNT OF SYSTEMIC TO THE REMAINING TREE STRUCTURE. THE EXPENSE OF ANY REQUIRED HAND EXCAVATION AND/OR THE CUTTING OF MAJOR TREE ROOTS, AS DESCRIBED ABOVE, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT LINE ITEM BEING REMOVED OR INSTALLED AT THAT LOCATION. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
26. CONTRACTOR MUST USE EXTREME CAUTION TO PROTECT EXISTING WATERMAINS ON THE PROJECT SITE. PRIOR TO COMMENCEMENT OF WORK NEAR EXISTING WATERMAINS, THE CONTRACTOR MUST CONTACT THE VILLAGE OF GLENN ELLYN AT 630.469.6756. THE COST OF PROTECTION OF THE WATERMAIN IS INCLUDED IN THE COST OF OTHER CONTRACT WORK ITEMS.
27. CONTRACTOR MUST USE EXTREME CAUTION TO PROTECT THE EXISTING STORM SEWER AND OUTFALL ON THE PROJECT SITE. THE COST OF PROTECTION OF THE STORM SEWER AND OUTFALL STRUCTURE IS INCLUDED IN THE COST OF OTHER CONTRACT WORK ITEMS.
28. PRIOR TO COMMENCEMENT AND AFTER COMPLETION OF WORK NEAR THE EXISTING STORM SEWER AND OUTFALL, THE CONTRACTOR MUST VIDEOTAPE THE EXISTING SEWER AND STRUCTURE. SEE SPECIAL PROVISIONS FOR REQUIREMENTS AND PAYMENT.
29. THE SANITARY MANHOLE TO BE RECONSTRUCTED IS PER VILLAGE OF GLEN ELLYN REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, ANY WORK DONE ON THE SANITARY SEWER PRECAST STRUCTURE REQUIRES THAT THE JOINTS BE TREATED WITH AN EXTERNAL WATERPROOF WRAP, AND THAT AN EXTERNAL CHIMNEY SEAL BE INSTALLED. THE VILLAGE TYPICALLY USES THE WRAPID SEAL MANHOLE ENCAPSULATION SYSTEM OR EQUIVALENT SYSTEM APPROVED BY THE VILLAGE . IN ADDITION, TWO ROWS OF EXTRUDIBLE PRE-FORMED MASTIC GASKET SHOULD BE INSTALLED AT EACH MANHOLE JOINT AND UNDER THE MANHOLE FRAME. THE INSIDE SURFACE OF ALL MANHOLE JOINTS SHOULD BE "BUTTERED" WITH HYDRAULIC CEMENT. THE COST FOR THE ADDITIONAL ITEMS NOTED ABOVE/SHOWN ON THE VILLAGE STANDARD PLAN OR EQUIVALENT SHALL BE INCLUDED IN THE COST OF MANHOLES TO BE RECONSTRUCTED.

PROJECT COMMITMENTS

TEMPORARY NON-INTRUSION FENCING IS USED AT ENVIRONMENTALLY SENSITIVE AREAS TO PREVENT INTRUSIONS BY CONSTRUCTION PERSONNEL.

Rev.

JACOBS

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		DRAWN - KEB	REVISED -
	PLOT SCALE = 1" = 50'	CHECKED - PJM	REVISED -
	PLOT DATE = 10/10/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

GENERAL NOTES, INDEX OF SHEETS, STATE STDS, & COMMITMENTS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	2
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE	ITEM DESCRIPTION	UNIT	URBAN 80% FED, 20% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
					BITUMINOUS PAVEMENT		PROPOSED IL 53 OVER E. BR. DuPAGE RIVER (SN 022-0181)	LIGHTING
					1000-2A		X031-2A	Y030-1E
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	10	10			
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	112	112			
	20101000	TEMPORARY FENCE	FOOT	90	90			
	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	5	5			
	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	5	5			
	20200100	EARTH EXCAVATION	CU YD	7,962	7,962			
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,505	2,505			
	20400800	FURNISHED EXCAVATION	CU YD	5,713	5,713			
	20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	63			63	
	20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	823	823			
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2,556	2,556			
*	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	16,795	16,795			
*	21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	359	359			
*	25000210	SEEDING, CLASS 2A	ACRE	2.50	2.50			
*	25100630	EROSION CONTROL BLANKET	SQ YD	30,798	30,798			
*	25200200	SUPPLEMENTAL WATERING	UNIT	5	5			
*	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	340	340			
*	28000720	MULCH, METHOD 2	ACRE	0.5	0.5			
	28100107	STONE RIPRAP, CLASS A4	SQ YD	1,194			1,194	
	28200200	FILTER FABRIC	SQ YD	1919	636		1,283	
	35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	948	948			
	40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	106	106			
	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	6.3	6.3			
	40600300	AGGREGATE (PRIME COAT)	TON	5	5			
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	19	19			
	40603090	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	133	133			
	40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	118	118			
	40701891	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/2"	SQ YD	2,497	2,497			
	42001165	BRIDGE APPROACH PAVEMENT	SQ YD	390	390			
	44000100	PAVEMENT REMOVAL	SQ YD	3,271	3,271			
	44000166	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"	SQ YD	1,053	1,053			

*Specialty Items

SOQ-1

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PLOT DATE = 10/10/2008	DATE - 10/15/08	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	3
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE	ITEM DESCRIPTION	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
				BITUMINOUS PAVEMENT		PROPOSED IL 53 OVER E. BR. DuPAGE RIVER (SN 022-0181)	LIGHTING
				1000-2A		X031-2A	Y030-1E
44000700	APPROACH SLAB REMOVAL	SQ YD	316	316			
44004250	PAVED SHOULDER REMOVAL	SQ YD	105	105			
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	1,187	1,187			
48203039	HOT-MIX ASPHALT SHOULDERS, 10 1/2"	SQ YD	2,786	2,786			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1	
50200100	STRUCTURE EXCAVATION	CU YD	66			66	
50300225	CONCRETE STRUCTURES	CU YD	224.4			224.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	355.7			355.7	
50300260	BRIDGE DECK GROOVING	SQ YD	611			611	
50300280	CONCRETE ENCASEMENT	CU YD	22.4			22.4	
50300300	PROTECTIVE COAT	SQ YD	717			717	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	91,030			91,030	
50800515	BAR SPLICERS	EACH	258			258	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	3960			3960.	
51202305	DRIVING PILES	FOOT	3960			3960	
51203600	TEST PILE STEEL HP12X53	EACH	4			4	
51204650	PILE SHOES	EACH	68			68	
51500100	NAME PLATES	EACH	1			1	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	46			46	
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	8	8			
60107700	PIPE UNDERDRAINS 6"	FOOT	284	284			
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	211			211	
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1			
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	662.5	662.5			
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4	4			
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4			
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4			
63200310	GUARDRAIL REMOVAL	FOOT	412.5	412.5			
63801205	TEMPORARY MODULAR GLARE SCREEN	FOOT	308	308			
66400305	CHAIN LINK FENCE, 6'	FOOT	401	401			

* Specialty Items

S00-2

Rev.

JACOBS

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	PLOT SCALE = 1" = 52'	DRAWN - AEG	REVISED -
	PLOT DATE = 10/6/2008	CHECKED - PJM	REVISED -
		DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	4
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE	ITEM DESCRIPTION	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE: BITUMINOUS PAVEMENT		PROPOSED IL 53 OVER E. BR. DuPAGE RIVER (SN 022-0181)	LIGHTING
					1000-2A		X031-2A	Y030-1E
	66410300	CHAIN LINK FENCE REMOVAL	FOOT	401	401			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9			
	67000600	ENGINEER'S FIELD LABORATORY	CAL MO	9	9			
	67100100	MOBILIZATION	L SUM	1	1			
	70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1			
	70106700	TEMPORARY RUMBLE STRIP	EACH	6	6			
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	18	18			
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	295	295			
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,534	1,534			
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3,451	3,451			
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,534	1,534			
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,440	1,440			
	72000100	SIGN PANEL - TYPE 1	SQ FT	69	69			
	72000200	SIGN PANEL - TYPE 2	SQ FT	20	20			
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	51	51			
	72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	20	20			
	73000100	WOOD SIGN SUPPORT	FOOT	132	132			
	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	78	78			
	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8,638	8,638			
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	197	197			
	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	170	170			
	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	30	30			
	78003110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	954	954			
	78003150	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 12"	FOOT	71	71			
	78200100	MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	62	62			
	78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16			
	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4			
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	798	798			
*	81100200	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., GALVANIZED STEEL	FOOT	50				50
*	81100400	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., GALVANIZED STEEL	FOOT	50				50

*Specialty Items

S00-3

Rev.

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	PLOT DATE = 10/8/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	5
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE	ITEM DESCRIPTION	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE: BITUMINOUS PAVEMENT		PROPOSED IL 53 OVER E. BR. DuPAGE RIVER (SN 022-0181)	LIGHTING
				1000-2A		X031-2A	Y030-1E
81800320	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	817				817
82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	6				6
83057150	LIGHT POLE, WOOD, 30 FOOT, CLASS 4	EACH	1				1
X0325948	TEMPORARY LIGHTING SYSTEM, REMOVAL, NO SALVAGE	L SUM	1				1
A2002466	TREE, BETULA NIGRA HERITAGE (HERITAGE RIVER BIRCH), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	7	7			
A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	14	14			
A2005116	TREE, JUGLANS NIGRA (BLACK WALNUT), 2" CALIPER, BALLED AND BURLAPPED	EACH	8	8			
A2006568	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 7' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	18	18			
A2006714	TREE, QUERCUS MACROCARPA (BUR OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10	10			
A2007666	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	12	12			
B2000766	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	3	3			
B2001666	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	7	7			
C2001636	SHRUB, CORNUS SERICEA (REDOSIER DOGWOOD) 3' HEIGHT, BALLED AND BURLAPPED	EACH	66	66			
C2009636	SHRUB, SAMBUCUS CANADENSIS (AMERICAN ELDER), 3' HEIGHT, BALLED AND BURLAPPED	EACH	34	34			
C2012448	SHRUB, VIBURNUM LENTAGO (NANNYBERRY VIBURNUM), 4' HEIGHT, BALLED AND BURLAPPED	EACH	52	52			
K1005863	TREE ROOT PRUNING	EACH	5	5			
~~X0321141~~	~~REMOVE TEMPORARY WOOD POLE~~	~~EACH~~	~~9~~				~~9~~
~~X0322766~~	~~BARE COPPER WIRE, 1/C NO. 6~~	~~FOOT~~	~~200~~				~~200~~
80400200	ELECTRIC SERVICE CONNECTION (UTILITY)	L SUM	1				1
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1				1
X0326243	SEDIMENT CONTROL, SILT CURTAIN	L SUM	1	1			
X0323973	SEDIMENT CONTROL, SILT FENCE	FOOT	5,298	5,298			
X0323974	SEDIMENT CONTROL, SILT FENCE MAINTENANCE	FOOT	5,298	5,298			
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,877	1,515		362	
X0324767	RUBBLIZING PAVEMENT	SQ YD	1,954	1,954			
~~X0325295~~	~~REMOVE ELECTRIC SERVICE~~	~~EACH~~	~~1~~				~~1~~
X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	13,430	13,430			

* Specialty Items

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	6

CONTRACT NO. 60B95

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

SUMMARY OF QUANTITIES

	CODE	ITEM DESCRIPTION	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
					BITUMINOUS PAVEMENT		PROPOSED IL 53 OVER E. BR. DuPAGE RIVER (SN 022-0181)	LIGHTING
					1000-2A		X031-2A	Y030 - 1E
	X0325841	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	22	22			
*	~~X0325867~~	~~COMBINATION POLE MOUNTED ELECTRIC SERVICE BOX~~	~~EACH~~	~~1~~				~~1~~
*	X0325949	ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL	EACH	1				1
	X0712400	TEMPORARY PAVEMENT	SQ YD	1,684	1,684			
	X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1			1	
	X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1			1	
	X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6				6
*	XX006144	SEEDING, MESIC PRAIRIE	ACRE	3.0	3.0			
	XX006381	CRUSHED AGGREGATE CA-1	CU YD	54.0	54			
*	XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	4				4
*	X0325078	TRAFFIC SIGNAL WOOD POLE, 60 FT., CLASS 4	EACH	3				3
	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	5,298	5,298			
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
	Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	4	4			
	Z0030340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	4	4			
	Z0055100	RUMBLE RESURFACING	SQ YD	80	80			
⊙	Z0076600	TRAINEES	HOUR	1500	1500			
	X0325553	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 20FT. MAST ARM	EACH	6				6
*	C2009410	SHRUB, SALIX DISCOLOR (PUSSY WILLOW), 3' HEIGHT, BALLED AND BURLAPPED	EACH	36	36			
*	X0326239	SEEDING, SEDGE MEADOW MIX	ACRE	0.50	0.50			
*	X0326238	SEEDING, WETLAND EDGE MIX	ACRE	1.50	1.50			

⊙ Y080
* Specialty Items

S00-5

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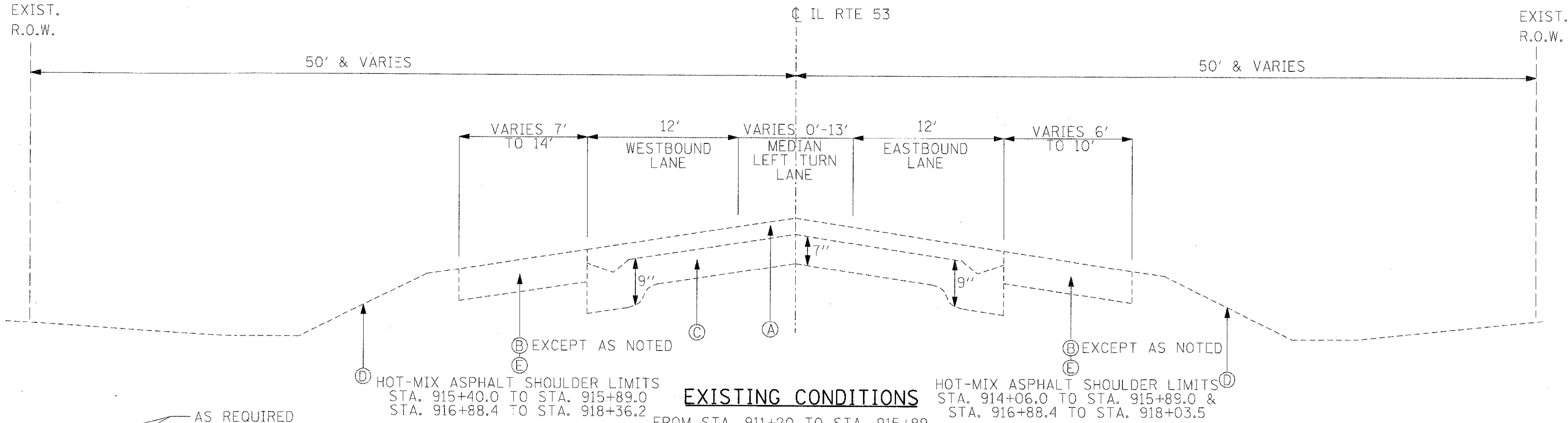
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUMMARY OF QUANTITIES

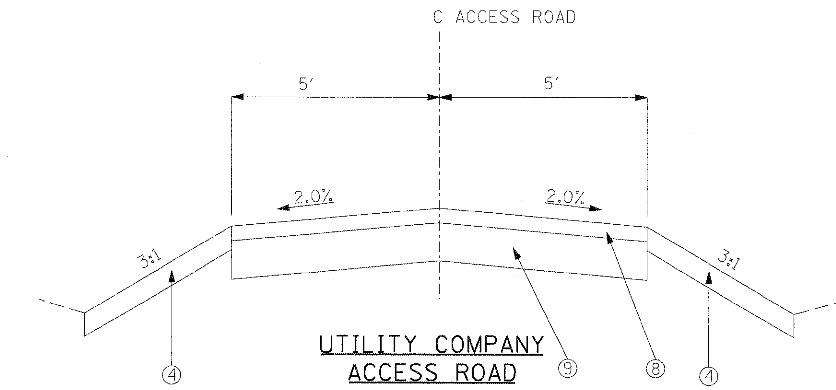
SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	7
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

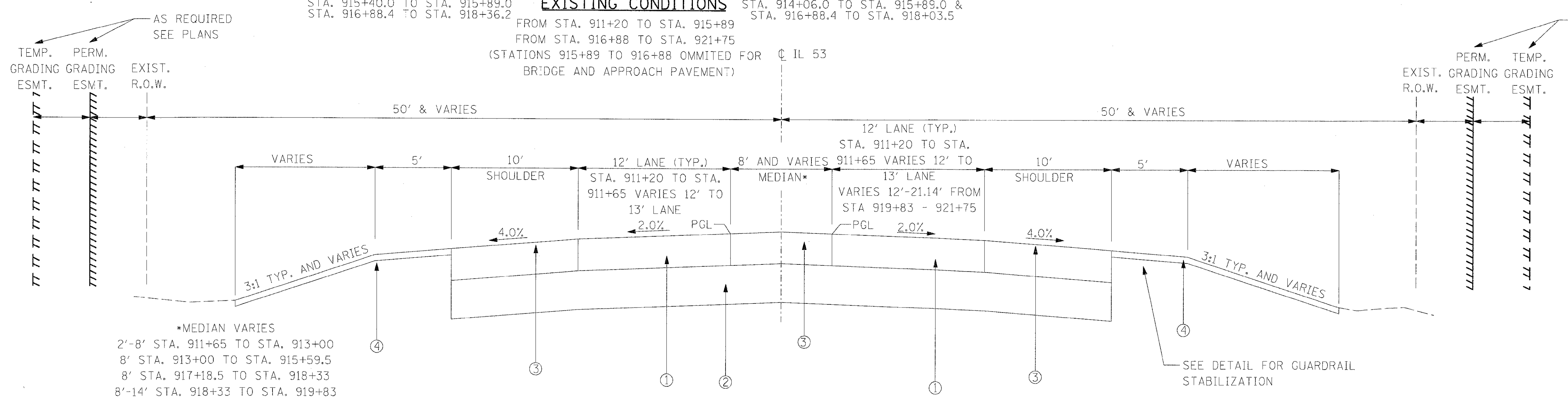


EXISTING CONDITIONS

FROM STA. 911+20 TO STA. 915+89
FROM STA. 916+88 TO STA. 921+75
(STATIONS 915+89 TO 916+88 OMMITED FOR BRIDGE AND APPROACH PAVEMENT)



UTILITY COMPANY ACCESS ROAD



*MEDIAN VARIES
2'-8' STA. 911+65 TO STA. 913+00
8' STA. 913+00 TO STA. 915+59.5
8' STA. 917+18.5 TO STA. 918+33
8'-14' STA. 918+33 TO STA. 919+83
14'-4.9' STA. 919+83 TO STA. 921+75

PROPOSED CONDITIONS

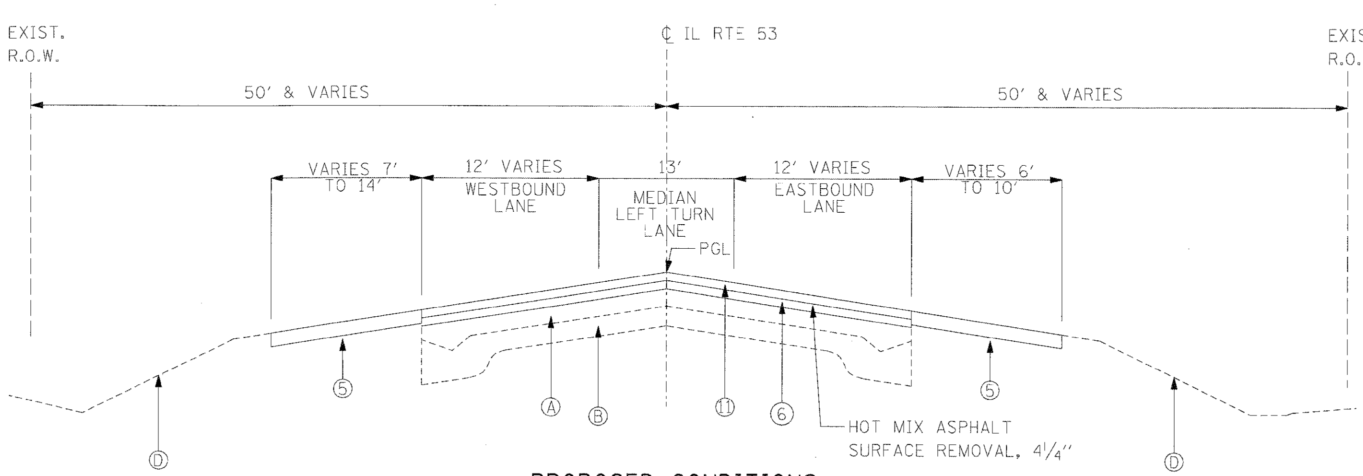
FROM STA. 911+20 TO STA. 915+59.5
FROM STA. 917+18.5 TO STA. 921+75
(STATIONS 915+59.5 TO 917+18.5 OMITTED FOR BRIDGE AND APPROACH PAVEMENT)

LEGEND - EXISTING

Ⓐ HOT-MIX ASPHALT OVERLAY 4 5/8'' TYPICAL AND VARIES
Ⓑ AGGREGATE SHOULDERS
Ⓒ PCC BASE COURSE 9''-7''-9''
Ⓓ EXISTING GROUND
Ⓔ HOT-MIX ASPHALT SHOULDER

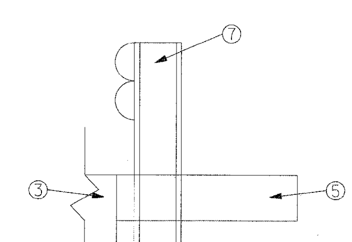
LEGEND - PROPOSED

① HOT-MIX ASPHALT PAVEMENT (FULL DEPTH) 10 1/2''
② AGGREGATE SUBGRADE 12''
③ HOT-MIX ASPHALT SHOULDERS, 10 1/2'' (3 LIFTS)
④ TOPSOIL FURNISH AND PLACE, 4'', SEEDING AS SHOWN IN LANDSCAPING PLANS
⑤ AGGREGATE SHOULDER, TYPE B 6''
⑥ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4'' MIN.
⑦ PROPOSED TYPE A GUARDRAIL OR TERMINAL SECTION
⑧ AGGREGATE SURFACE COURSE, TYPE B, 4''
⑨ AGGREGATE BASE COURSE, TYPE B, 8''
⑩ TEMPORARY PAVEMENT, 10 1/2''
⑪ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX ''F'', N90, 2''
⑫ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 8 1/2'' (IN 3 LIFTS)



PROPOSED CONDITIONS

FROM STA. 921+75 TO STA. 924+20.80



PROPOSED GUARDRAIL STABILIZATION

EASTBOUND
FROM STA. 911+76 TO STA. 914+32
FROM STA. 914+52 TO STA. 915+89
FROM STA. 916+89 TO STA. 918+76
WESTBOUND
FROM STA. 913+99 TO STA. 915+89
FROM STA. 916+89 TO STA. 918+81
FROM STA. 919+04 TO STA. 921+00

HOT-MIX ASPHALT REQUIREMENTS

MIXTURE TYPE	AC TYPE	VOIDS
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX ''F'', N90 (IL-9.5mm), 2''	SBS/SBR PG 70-22	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4''	SBS/SBR PG 70-22	4% @ 90 GYR.
FULL DEPTH PAVEMENT		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX ''F'', N90 (IL-9.5mm), 2''	SBS/SBR PG 70-22	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N90, 8 1/2''	SBS/SBR PG 70-22	4% @ 90 GYR.
SHOULDERS, 10 1/2''		
HMA SHOULDER	PG 64-22*	2% @ 30 GYR.
TEMPORARY PAVEMENT, 10 1/2'' **		
HMA SURFACE COURSE, MIX ''D'', N50 (IL 9.5mm), 1 1/2''	PG 64-22	4% @ 50 GYR.
TEMP PAVEMENT (HMA BINDER IL-19mm), 9'' (3 LIFTS)	PG 64-22*	4% @ 50 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PC 58-22.
** FOR TEMPORARY PAVEMENT CONTRACTOR HAS OPTION TO USE 10 1/2'' PCC PAVEMEMT INSTEAD OF HOT-MIX ASPHALT.

STRUCTURAL DESIGN TRAFFIC: YEAR 2014
PV= 24,313 SU= 760 MU= 253
ROAD/STREET CLASSIFICATION: CLASS II
P= 96% S= 3% M= 1%
TRAFFIC FACTOR: ACTUAL TF= 0.93 AC TYPE= 20
MINIMUM TF= 1.9
AC GRADE: BINDER:= PG 70-22 SURFACE:= PG 70-22
SUBGRADE SUPPORT RATING: SR= P002

TYP-1

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	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	8

CONTRACT NO. 60B95

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

TREE REMOVAL (6-15 UNITS DIAMETER)

LOCATION	STATION	OFFSET	UNIT
IL 53	915+29.00	37 LT.	10
		TOTAL	10

TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION	STATION	OFFSET	UNIT
IL 53	911+98	39' LT.	30
	915+61	38' LT.	16
	915+64	40' LT.	16
	915+81	35' LT.	30
	915+99	37' LT.	20
		TOTAL	112

SIGNAGE ITEMS

LOCATION	STATION	OFFSET	SIGN PANEL - TYPE 1 (SQ FT)	SIGN PANEL - TYPE 2 (SQ FT)	REMOVE SIGN PANEL - TYPE 1 (SQ FT)	REMOVE SIGN PANEL - TYPE 2 (SQ FT)	WOOD SIGN SUPPORT (FOOT)
IL 53	904+85	LT.		20			16
IL 53	909+22	RT.	9				17.2
IL 53	913+19	LT.	4		4		14
IL 53	914+38	LT.	9				17.2
IL 53	915+05	LT.	16		16		17
IL 53	915+11	RT.	8		8		15
IL 53	915+18	LT.				20	
IL 53	918+29	RT.	14		14		18.4
IL 53	920+24	RT.	9		9		17.2
			69	20	51	20	132

PROPOSED TREE & SHRUB ITEMS

	TREE, HERITAGE RIVER BIRCH (EACH)	TREE, COMMON HACKBERRY (EACH)	TREE, BLACK WALNUT (EACH)	TREE, SWAMP WHITE OAK (EACH)	TREE, BUR OAK (EACH)	TREE, BALD CYPRESS (EACH)	TREE, AUTUMN BRILLIANCE SERVICEBERRY (EACH)	TREE, THORNLESS COCKSPUR HAWTHORN (EACH)	SHRUB, REDOSIER DOGWOOD (EACH)	SHRUB, AMERICAN ELDER (EACH)	SHRUB, NANNYBERRY VIBURNUM (EACH)	SHRUB, PUSSY WILLOW (EACH)	TREE PRUNING 1 TO 10 INCH DIAMETER (EACH)	TREE PRUNING OVER 10 INCH DIAMETER (EACH)	TREE ROOT PRUNING (EACH)
IL 53					2			7					5	5	5
COMP STORAGE 1		4	5	9	4				66	34	52	36			
COMP STORAGE 2	7	10	3	9	4	12	3								
TOTAL	7	14	8	18	10	12	3	7	66	34	52	36	5	5	5

ROADWAY REMOVAL ITEMS

STATION TO STATION	HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT (SQ YD)	PAVEMENT REMOVAL (SQ YD)	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4" (SQ YD)	APPROACH SLAB REMOVAL (SQ YD)	PAVED SHOUDER REMOVAL (SQ YD)	GUARDRAIL REMOVAL (FOOT)	RUBBLIZE PAVEMENT (SQ YD)
911+20 913+75		737			93		
913+75 915+89						150	876
915+89 916+88				316	12	112.5	
916+88 919+50						150	1,078
919+50 920+86		850					
920+86 921+75	19						
921+75 923+72			802				
923+72 924+09			185				
924+09 924+21			66				
TEMP PAVE		1,684					
TOTAL	19	3,271	1,053	316	105	412.5	1,954

DRAINAGE ITEMS

STATION	PIPE UNDERDRAIN 6" (FOOT)	CONCRETE HEADWALL FOR PIPE DRAINS (EACH)
911+25	140	4
920+50	144	4
TOTAL	284	8

FENCING ITEMS

	CHAIN LINK FENCE, 6' (FOOT)	CHAIN LINK FENCE REMOVAL (FOOT)
COMPENSATORY STORAGE SITE 2	401	401
TOTAL	401	401

ROADWAY PAVEMENT ITEMS

STATION TO STATION	AGGREGATE BASE COURSE, TYPE B, 8" (SQ YD)	AGGREGATE SURFACE COURSE, TYPE B (CU YD)	BITUMINOUS MATERIALS (PRIME COAT) (TON)	AGGREGATE (PRIME COAT) (TON)	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 2" (TON)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 2 1/4" (TON)	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/2" (SQ YD)	BRIDGE APPROACH PAVEMENT (SQ YD)	AGGREGATE SHOULDERS, TYPE B, 6" (SQ YD)	HOT-MIX ASPHALT SHOULDERS, 10 1/2 " (SQ YD)	AGGREGATE SUBGRADE, 12" (SQ YD)
907+97 911+20									544.7		
911+20 913+00							490		31.4	475	980
913+00 915+60							692		66.9	819	1500
915+60 917+18								390	49.3		
917+18 918+33							306		35.8	347	663
918+33 919+83							401		14.8	518	919
919+83 921+75							608			627	1236
921+75 923+72			4.8	3	101	90			411.4		
923+72 924+09			1.1	1	24	21			28.4		
924+09 924+21			0.4	1	8	7			4.3		
ACCESS ROAD 1	211	24									
ACCESS ROAD 2	319	35									
ACCESS ROAD 3	284	32									
SN 022-0181	134	15									
TOTAL	948	106	6.3	5	133	118	2,497	390	1,187	2,786	5,298

SAFTEY ITEMS

ALIGNMENT	GUARDRAIL TYPE	STA	STA	OFFSET	QUANTITY	TOTAL
IL 53	SPBGR TY A (FOOT)	912+41.10	914+16.10	RT	175	662.5
		915+02.60	915+46.35	RT	50	
		917+31.65	918+56.65	RT	125	
		914+46.35	915+46.35	LT	100	
		917+31.65	918+25.40	LT	100	
		919+23.10	920+35.60	LT	112.5	
IL 53	TRAF BAR TERM T2 (EACH)	914+16.10	914+28.60	RT	1	4
		918+56.65	918+69.15	RT	1	
		914+33.85	914+46.35	LT	1	
		919+10.60	919+23.10	LT	1	
IL 53	TR BAR TRM T1 SPL TAN (EACH)	911+91.10	912+41.10	RT	1	4
		914+52.60	915+02.60	RT	1	
		918+25.40	918+75.40	LT	1	
		920+35.60	920+85.60	LT	1	
IL 53	TRAF BAR TERM T6 (EACH)	915+46.35	915+90.10	RT	1	4
		916+87.90	917+31.65	RT	1	
		916+87.90	917+31.65	LT	1	
		915+46.35	915+90.10	LT	1	
IL 53	GUARDRAIL MKR TYPE A (EACH)			RT	7	16
				LT	6	
IL 53	TERMINAL MARKER - DA (EACH)			RT	2	4
				LT	1	

SCH-1

JACOBS

FILE NAME =		DESIGNED - TAI	REVISED 11/19/08
P:_2002\020019.004\Cadd\Sheet Files\Part 1\09_SCH_QUAN_1.SHT		DRAWN - KEB	REVISED -
	PLOT SCALE = 1' = 50'	CHECKED - PJM	REVISED -
	PLOT DATE = 11/20/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	9
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING ITEMS

	THERMOPLASTIC PAVEMENT MARKING - LT & SYM (SQ FT)	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (FOOT)	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (FOOT)	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (FOOT)	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (FOOT)	PREFORMED PLASTIC PAVEMENT MARKING - LINE 4" (FOOT)	PREFORMED PLASTIC PAVEMENT MARKING - LINE 12" (FOOT)
905+45 907+60		359					
907+60 911+20		1,440		28			
911+20 915+60		2,640		40			
915+60 917+19						954	71
917+19 918+75		936		18			
918+75 920+00		750		30			
920+00 922+13		1,331		54			
922+13 924+10	78	1,182	197		30		
TOTAL	78	8,638	197	170	30	954	71

TEMPORARY SOIL RETENTION SYSTEM

START STATION	END STATION	LENGTH (FOOT)	HEIGHT (FOOT)	AREA (SQ FT)
911+20.0	911+50.0	30.0	0.01	0.4
911+50.0	912+00.0	50.0	0.13	6.7
912+00.0	912+50.0	50.0	0.45	22.5
912+50.0	913+00.0	50.0	0.96	47.8
913+00.0	913+50.0	50.0	1.55	77.5
913+50.0	913+75.0	25.0	1.55	38.8
913+75.0	914+00.0	25.0	1.21	30.2
914+00.0	914+50.0	50.0	1.88	94.0
914+50.0	915+00.0	50.0	2.51	125.5
915+00.0	915+50.0	50.0	3.03	151.7
915+50.0	915+89.5	39.5	3.43	135.5
915+89.5	915+91.5	2.0	4.38	8.8
916+86.5	917+00.0	13.5	3.55	47.9
917+00.0	917+50.0	50.0	3.24	162.0
917+50.0	918+00.0	50.0	2.66	133.0
918+00.0	918+50.0	50.0	2.14	107.0
918+50.0	919+00.0	50.0	1.72	86.2
919+00.0	919+50.0	50.0	1.25	62.5
919+50.0	920+00.0	50.0	1.68	84.0
920+00.0	920+50.0	50.0	1.11	55.5
920+50.0	921+00.0	50.0	0.55	27.3
921+00.0	921+50.0	50.0	0.18	9.0
921+50.0	921+85.0	35.0	0.03	1.1
			TOTAL	1,515

LANDSCAPING ITEMS (SEEDING)

	SEEDING, CLASS 2A (ACRE)	SEEDING MESIC PRAIRIE (ACRE)	SEEDING, SEDGE MEADOW MIX (ACRE)	SEEDING, WETLAND EDGE MIX (ACRE)
STA 911+20- RT	0.35	0.15		0.01
STA 916+30 LT	0.30	0.20		0.10
STA 916+50- RT	0.30	0.25		0.02
STA 921+75 LT	0.30	0.25		0.02
COMPENSATORY STORAGE SITE 1		0.40	0.20 0.05	0.30
COMPENSATORY STORAGE SITE 2		0.25		0.30
SUBTOTAL	1.25	1.50	0.25	0.75
APPLICATIONS	2	2	2	2
TOTAL	2.50	3.00	0.50	1.50

LANDSCAPING ITEMS

	TOPSOIL FURNISH AND PLACE, 4" (SQ YD)	TOPSOIL FURNISH AND PLACE, 12" (SQ YD)	EROSION CONTROL BLANKET (SQ FT)
STA 911+20- RT	2,387	359	2,387
STA 916+30 LT	2,699		2,699
STA 916+50- RT	2,607		2,607
STA 921+75 LT	2,655		2,655
COMPENSATORY STORAGE SITE 1	3,857		3,857
COMPENSATORY STORAGE SITE 2	2,590		2,590
TOTAL	16,795	359	16,793

EROSION CONTROL ITEMS

	EROSION CONTROL BLANKET (SQ YD)	TEMPORARY EROSION CONTROL SEEDING (POUND)	MULCH, METHOD 2 (ACRE)	CRUSHED AGGREGATE CA-1 (SQ YD)	FILTER FABRIC (SQ YD)	SEDIMENT CONTROL, SILT FENCE (FOOT)	SEDIMENT CONTROL, SILT FENCE MAINTENANCE (FOOT)
STA 911+20- RT	2,590	53.5		9	105	737	737
STA 916+30 LT	2,716	56.1		9	105	938	938
STA 916+50- RT	2,497	51.6		9	105	724	724
STA 921+75 LT	2,593	53.3		9	105	747	747
COMPENSATORY STORAGE SITE 1	2,018	68.7	0.27	9	108	1,164	1,164
COMPENSATORY STORAGE SITE 2	1,375	51.4	0.23	9	108	988	988
TOTAL	14,005	340	0.5	54	636	5,298	5,298

MAINTENANCE OF TRAFFIC ITEMS

	TEMPORARY MODULAR GLARE SCREEN (FOOT)	SHORT-TERM PAVEMENT MARKING (FOOT)	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH (FOOT)	TEMPORARY PAVEMENT MARKING - LINE 6 "(FOOT)	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 24 INCH (FOOT)	WORK ZONE PAVEMENT MARKING REMOVAL (SQ FT)	TEMPORARY CONCRETE BARRIER (FOOT)	RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)	MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR (EACH)	PAVEMENT MARKING REMOVAL (SQ FT)	TEMPORARY PAVEMENT (SQ YD)	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2 (EACH)	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2 (EACH)	CHANGEABLE MESSAGE SIGN (CAL MO)
PRE-STAGE														
STA 907+57-STA 911+20			363			121.0								9
STA 911+20-STA 915+60			440			146.7								
STA 915+60-STA 917+19			159			53.0								
STA 917+19-STA 921+75			456			152.0								
STA 921+75-STA 924+07			232			77.3								
STAGE I														
STA 907+15-STA 911+20			1,620	48		540.0	48		2	246	246	1		
STA 911+20-STA 915+60	76		1,346	547			547		22	147	611	1		
STA 915+60-STA 917+19	159		318	318	22		318		13	54	102			
STA 917+19-STA 921+75	73		1,412	578			578		23	152	447	1		
STA 921+75-STA 924+08			932	47		310.7	47		2	199	60	1		
STAGE II														
STA 908+70-STA 911+20			1,000			333.3		47			137		1	
STA 911+20-STA 915+60			1,760			585.3		525			27		1	
STA 915+60-STA 917+19			636			213.3		218						
STA 917+19-STA 921+75			1,824			608.0		602					1	
STA 921+75-STA 924+08			932			310.7		48			54		1	
RESURFACING STAGE														
STA 921+75-STA 924+08		295												9
TOTAL	308	295	13,430	1,534	22	3,451.3	1,534	1,440	62	798	1,684	4	4	18

SCH-2

JE JACOBS

FILE NAME = P:_2002\020019.004\Cadd\Sheet Files\Part 1\SCH_QUAN_2.SHT		DESIGNED - TAI	REVISED -
	PLOT SCALE = 1' = 50'	DRAWN - KEB	REVISED -
	PLOT DATE = 10/8/2008	CHECKED - PJM	REVISED -
		DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SCHEDULE OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	10
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

EARTHWORK QUANTITIES

ROADWAY EARTHWORK

STATION	PRE-STAGE CUT (SY)	PRE-STAGE FILL (SY)	PRE-STAGE CUT (CY)	PRE-STAGE FILL (CY)	STAGE 1 CUT (SY)	STAGE 1 FILL (SY)	STAGE 1 CUT (CY)	STAGE 1 FILL (CY)	STAGE 2 CUT (SY)	STAGE 2 FILL (SY)	STAGE 2 CUT (CY)	STAGE 2 FILL (CY)
911+20.00	7.00	7.17			45.47	0.84			45.56	0.05		
			7.00	10.00			48.00	0.00			51.00	2.00
911+50.00	6.32	10.46			41.58	0.00			47.00	3.97		
			10.00	38.00			74.00	10.00			80.00	23.00
912+00.00	4.51	30.87			38.71	11.33			38.94	20.46		
			10.00	52.00			60.00	37.00			63.00	44.00
912+50.00	6.03	24.88			26.19	28.18			29.34	26.97		
			12.00	35.00			39.00	60.00			41.00	51.00
913+00.00	6.63	12.97			15.70	36.83			15.37	27.82		
			16.00	21.00			15.00	82.00			17.00	59.00
913+50.00	10.49	9.55			0.73	52.16			3.24	35.65		
			18.00	15.00			1.00	113.00			3.00	84.00
914+00.00	8.42	6.11			0.00	70.08			0.00	55.15		
			15.00	7.00			0.00	119.00			0.00	122.00
914+50.00	7.63	1.61			0.00	58.10			0.00	76.44		
			13.00	2.00			38.00	167.00			0.00	187.00
915+00.00	5.97	0.97			40.68	122.56			0.00	125.84		
			11.00	2.00			70.00	246.00			0.00	264.00
915+50.00	5.99	0.94			35.29	142.69			0.00	159.39		
			9.00	3.00			65.00	217.00			0.00	261.00
915+89.50	5.96	3.44			53.41	153.38			0.00	196.81		
OMISSION BRIDGE SN 022-0181												
916+89.50	5.76	2.11			0.00	151.45			0.00	166.24		
			2.00	1.00			0.00	63.00			0.00	67.00
917+00.00	6.09	1.07			0.00	142.72			0.00	146.88		
			12.00	8.00			0.00	277.00			0.00	283.00
917+50.00	6.43	7.72			0.00	156.24			0.00	158.58		
			11.00	10.00			0.00	249.00			0.00	253.00
918+00.00	5.14	2.69			0.00	112.93			0.00	114.18		
			11.00	5.00			0.00	187.00			0.00	184.00
918+50.00	6.40	2.48			0.00	88.60			0.00	84.88		
			12.00	4.00			0.00	152.00			0.00	119.00
919+00.00	6.83	1.59			0.00	75.99			0.00	44.00		
			12.00	4.00			1.00	120.00			1.00	60.00
919+50.00	5.82	2.33			1.52	53.56			0.96	20.41		
			11.00	4.00			13.00	87.00			13.00	31.00
920+00.00	6.25	1.58			12.71	40.60			13.21	13.12		
			11.00	4.00			39.00	57.00			40.00	26.00
920+50.00	5.67	2.30			29.12	20.60			29.71	15.00		
			7.00	14.00			71.00	19.00			63.00	28.00
921+00.00	2.26	13.13			47.38	0.00			38.41	14.91		
			8.00	13.00			95.00	0.00			84.00	14.00
921+50.00	6.22	1.01			55.28	0.00			52.56	0.05		
			6.00	1.00			55.00	0.00			52.00	0.00
921+75.00	6.24	1.36			62.80	0.00			59.35	0.00		
MAINTENANCE ROAD A			0.0	0.0			0.00	356.35			0.0	0.00
MAINTENANCE ROAD B			0.0	0.0			0.00	276.79			0.0	0.00
MAINTENANCE ROAD C			0.0	0.0			0.00	0.0			0.0	403.32
PRE-STAGE SUBTOTAL			224	253	STAGE 1 SUBTOTAL		684	2895	STAGE 2 SUBTOTAL		508	2565

COMPENSATORY STORAGE SITE 1

STATION	CUT (SY)	FILL (SY)	CUT (CY)	FILL (CY)
1+00.00	171.34	0.00		
			116.00	0.00
1+10.00	456.77	0.00		
			352.00	0.00
1+30.00	492.98	0.00		
			344.00	0.00
1+50.00	434.77	0.00		
			436.00	0.00
1+80.00	349.79	0.00		
			231.00	0.00
2+00.00	275.19	0.00		
			199.00	0.00
2+27.00	123.61	0.00		
			9.00	0.00
2+30.00	43.84	0.00		
SUBTOTAL			1687	0

BRIDGE EARTHWORK

SIDE	STAGE 1 CUT (CY)	STAGE 1 FILL (CY)	STAGE 2 CUT (CY)	STAGE 2 FILL (CY)
W. ABUTMENT	326.48	0.00	273.23	0.00
E. ABUTMENT	248.72	0.00	208.74	0.00
SUBTOTAL	575.20	0.00	481.97	0.00

UNDERCUT NOTES

1. 1,682 CU YD OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL IS INCLUDED IN THE CONTRACT QUANTITIES FOR REMOVAL OF 1' OF TOPSOIL AT ALL LOCATIONS WHERE EMBANKMENT IS CONSTRUCTED ON TOP OF VEGETATED GROUND.

2. AS DIRECTED BY THE ENGINEER, A 6 INCH THICK LAYER OF UNDERCUT MAY BE REQUIRED BELOW THE ACCESS ROADS. THIS UNDERCUT IS TO BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT, SUBGRADE UNDERLAIN BY GEOTECHNICAL FABRIC FOR GROUND STABILIZATION. SEE UNDERCUT LOCATIONS CHART FOR CONTRACT QUANTITIES.

3. PER THE GEOTECHNICAL REPORT, A 24 INCH THICK LAYER OF UNDERCUT IS REQUIRED AT LOCATIONS SHOWN IN THE UNDERCUT LOCATION CHART. THE UNDERCUT IS TO BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT, SUBGRADE UNDERLAIN BY GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.

UNDERCUT LOCATIONS

LOCATION	TREATMENT	DEPTH	WIDTH	QUANTITY GEOTECH. FABRIC	QUANTITY PGES	QUANTITY REMOVAL AND DISPOSAL OF UNSUITABLE MAT.
STA. 915+00 TO STA. 915+89.50	PGES & GEOTECHNICAL FABRIC	24 IN.	25 FT. LEFT TO 40 FT. LEFT AND 25 FT. RIGHT TO 40 FT. RIGHT OF THE CENTERLINE	298 SQ YDS	199 CU YDS	199 CU YDS
STA. 916+88.50 TO STA. 918+00	PGES & GEOTECHNICAL FABRIC	24 IN.	25 FT. LEFT TO 40 FT. LEFT OF THE CENTERLINE	186 SQ YDS	124 CU YDS	124 CU YDS
ACCESS ROAD A	PGES & GEOTECHNICAL FABRIC	6 IN.	AS DIRECTED	633 SQ YDS	106 CU YDS	106 CU YDS
ACCESS ROAD B	PGES & GEOTECHNICAL FABRIC	6 IN.	AS DIRECTED	745 SQ YDS	159 CU YDS	159 CU YDS
ACCESS ROAD C	PGES & GEOTECHNICAL FABRIC	6 IN.	AS DIRECTED	693 SQ YDS	116 CU YDS	116 CU YDS
DRAINAGE SWALE 914+60 TO 916+30	PGES	12 IN.	63 FT. RIGHT TO 82 FT. RIGHT OF THE CENTERLINE	NONE	120 CU YDS	120 CU YDS
TOPSOIL STRIPPING	NONE	12 IN.	AS REQUIRED	NONE	NONE	1,682
			TOTAL	2,556 CU YDS	823 CU YDS	2,505 CU YDS

COMPENSATORY STORAGE SITE 2

STATION	CUT (SY)	FILL (SY)	CUT (CY)	FILL (CY)
100+78.92	477.54	0.00		
			604.00	0.00
100+99.32	1121.85	0.00		
			1091.00	0.00
101+30.00	798.26	0.00		
			599.00	0.00
101+60.00	280.59	0.00		
			178.00	0.00
101+92.25	16.70	0.00		
			13.00	0.00
102+09.77	21.98	0.00		
			195.00	0.00
102+50.00	240.34	0.00		
			341.00	0.00
102+90.00	220.36	0.00		
			306.00	0.00
103+30.00	192.16	0.00	-	-
			260.00	0.00
103+70.00	158.71	0.00		
			214.00	0.00
104+10.94	124.18	0.00		
SUBTOTAL			3801	0

EARTHWORK TOTALS

DESCRIPTION	EARTH EXCAVATION (CY)	FURNISHED EXCAVATION (CY)
PRE-STAGE	225	253
STAGE 1	684	2895
STAGE 2	508	2565
COMP. STORAGE 1	1687	0
COMP. STORAGE 2	3801	0
BRIDGE STAGE 1	575	0
BRIDGE STAGE 2	482	0
GRAND TOTAL	7962	5713

SCH-3

JE JACOBS

FILE NAME = P:_2002\022019.004\Cadd\Sheet Files\Part 1\SCH_QUAN_3.SHT

PLOT SCALE = 1" = 50'

PLOT DATE = 10/8/2008

DESIGNED - TAI | DRAWN - | CHECKED - PJM | DATE - 10/15/08

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

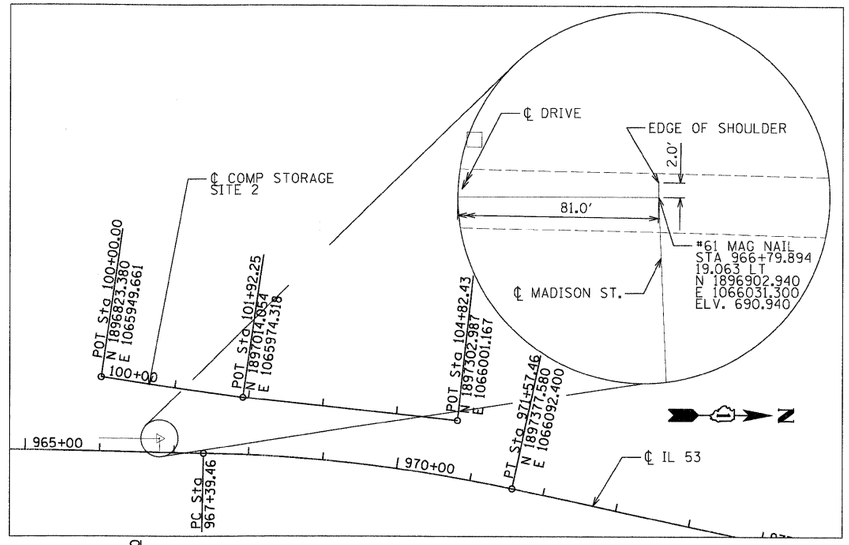
SCHEDULE OF QUANTITIES

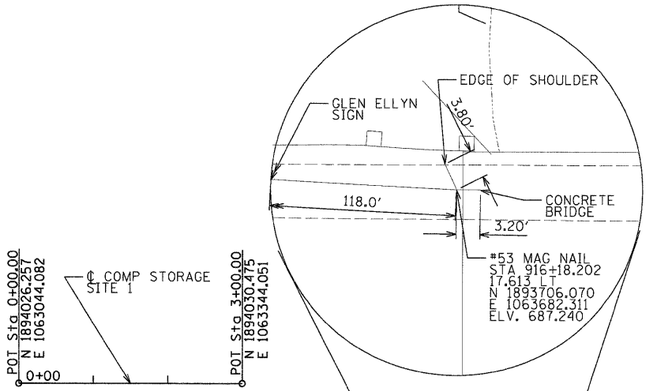
SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

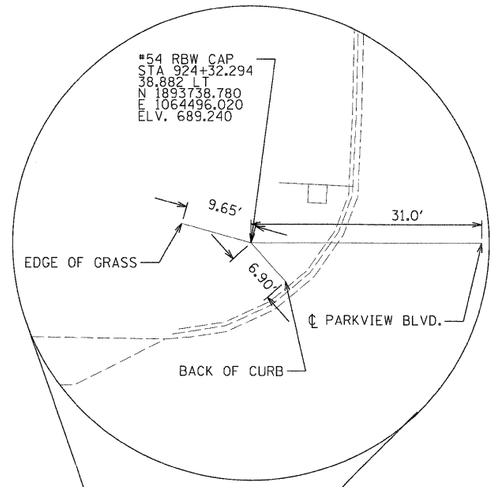
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	11

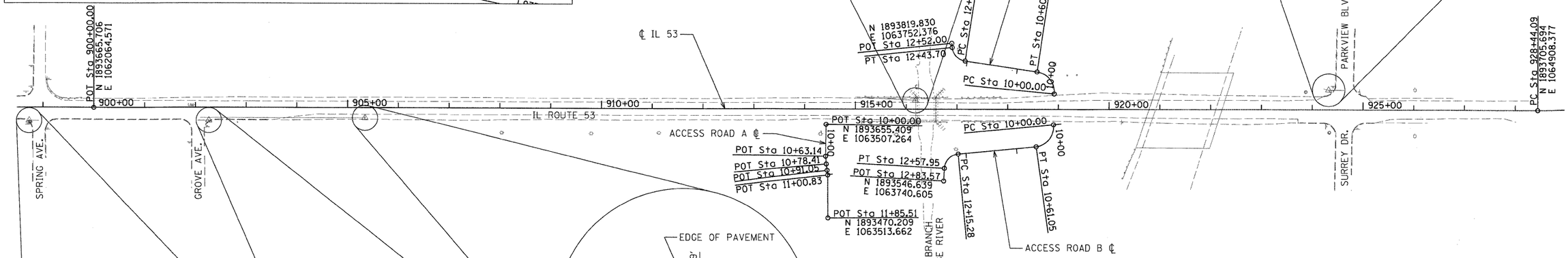
CONTRACT NO. 60B95

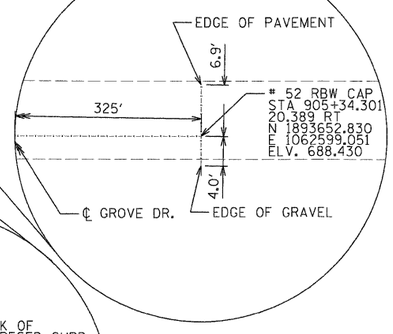
FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

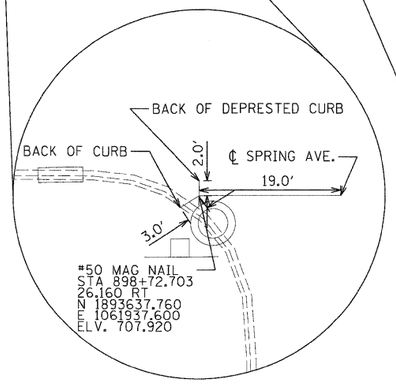


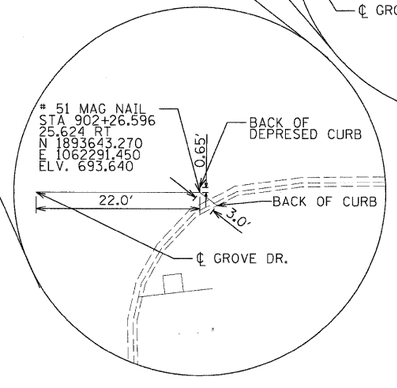












PROP. CURVE ACCESS ROAD A
POT STA = 10+63.14
N 1893592.270
E 1063507.264
POT STA = 10+78.41
N 1893577.079
E 1063508.865
POT STA = 10+91.05
N 1893564.568
E 1063510.646
P.T. STA = 11+00.83
N 1893554.867
E 1063511.882

PROP. CURVE ACCESS ROAD B-1
PI STA. = 10+38.25
Δ = 87° 26′ 41″ (RT)
D = 143° 14′ 22″
R = 40.00′
T = 38.25′
L = 61.05′
E = 15.35′
P.C. STA = 10+00.00
N 1893661.596
E 1063955.300
P.T. STA = 10+61.05
N 1893617.751
E 1063921.611

PROP. CURVE ACCESS ROAD B-2
PI STA. = 12+41.13
Δ = 81° 29′ 26″ (LT)
D = 190° 59′ 09″
R = 30.00′
T = 25.85′
L = 42.67′
E = 9.60′
P.C. STA = 12+15.28
N 1893600.894
E 1063768.303
P.T. STA = 12+57.95
N 1893572.243
E 1063741.604

PROP. CURVE ACCESS ROAD C-1
PI STA. = 10+37.94
Δ = 86° 58′ 40″ (LT)
D = 143° 14′ 22″
R = 40.00′
T = 37.94′
L = 60.72′
E = 15.13′
P.C. STA = 10+00.00
N 1893723.017
E 1063955.601
P.T. STA = 10+60.72
N 1893765.954
E 1063921.138

PROP. CURVE ACCESS ROAD C-2
PI STA. = 12+27.39
Δ = 75° 39′ 09″ (RT)
D = 190° 59′ 09″
R = 30.00′
T = 23.29′
L = 39.61′
E = 7.98′
P.C. STA = 12+04.09
N 1893785.309
E 1063779.079
P.T. STA = 12+43.70
N 1893811.593
E 1063753.327

ALN-1

JACOBS

FILE NAME = P:_2002\02001I9.004\Cadd\Sheet Files\Part I\ALIGN.SHT		DESIGNED - TAI	REVISED -
		DRAWN - KEB	REVISED -
		PLOT SCALE = 1" = 100'	CHECKED - PJM	REVISED -
		PLOT DATE = 10/8/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

ALIGNMENTS, TIES, AND BENCHMARKS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	12
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR EXISTING UTILITY LOCATIONS, SEE SHEET SUE-1 AND SUE-2.
2. FOR SHOULDER TRANSITIONS AT APPROACH PAVEMENT, SEE DRAWING DET-1
3. ALL RUBBLIZED PAVEMENT TO BE BROKEN INTO PIECES NOT EXCEEDING 3 SQ. FT.
4. FOR GUARDRAIL TERMINAL LOCATIONS SEE SHEET SCH-1
5. FOR PAVEMENT DETAILS BETWEEN STA. 911+20 & STA. 911+65, SEE DRAWING DET-2

RUBBLIZE PAVEMENT
PAVEMENT REMOVAL
APPROACH SLAB REMOVAL
HOT-MIX ASPHALT REMOVAL

EXISTING CONDITIONS

PROPOSED CONDITIONS

RDY-1

PROFILE

SURVEYED	PLOTTED	ALIGNMENT CHECKED	RT. OF WAY CHECKED	CADD FILE NAME
NOTE BOOK				
NO.				

DATE	BY

FILE NAME =		DESIGNED - TAI	REVISED 11/19/08
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	PLOT SCALE = 1" = 50'	CHECKED - PJM	REVISED -
	PLOT DATE = 11/20/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

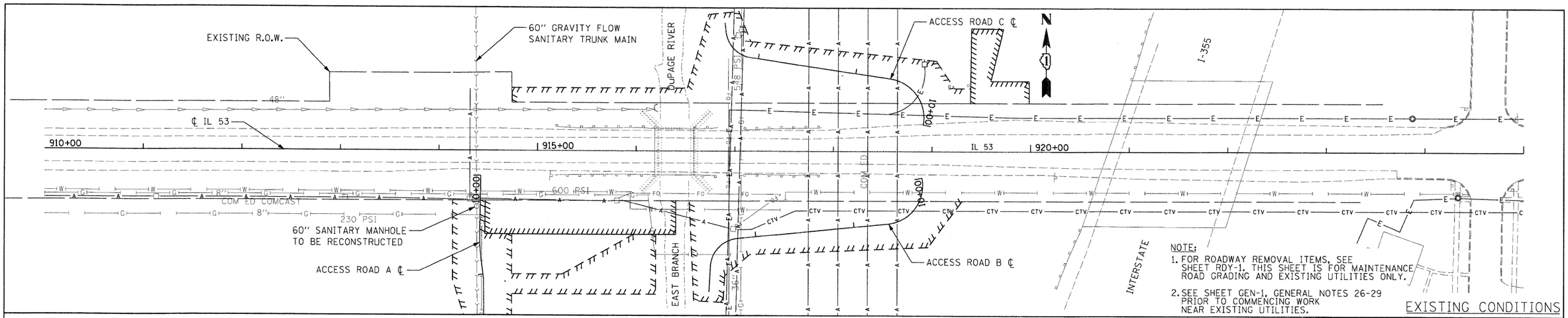
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

PLAN AND PROFILE – IL 53

SCALE: NONE | SHEET NO. OF SHEETS | STA. 910+00 TO STA. 925+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	13
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

JACOBS



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PLOT SCALE = 1" = 50'	CHECKED - PJM	REVISED -	
PLOT DATE = 10/8/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

PLAN AND PROFILE – UTILITY COMPANY ACCESS ROADS

SCALE: NONE | SHEET NO. OF SHEETS | STA. N/A | TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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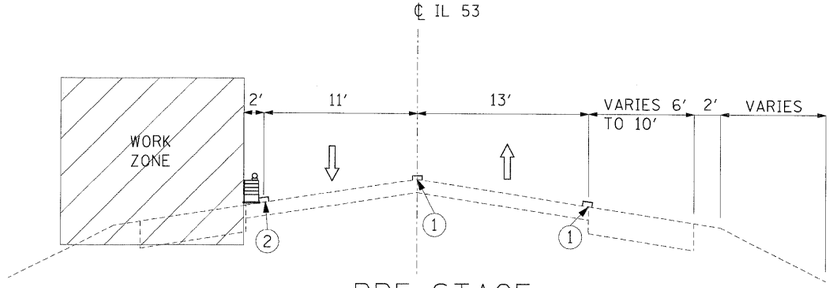
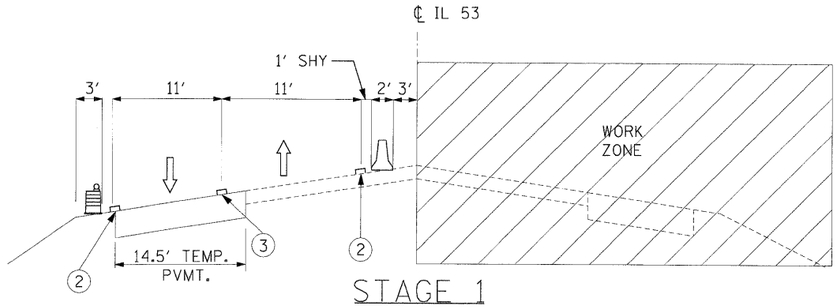
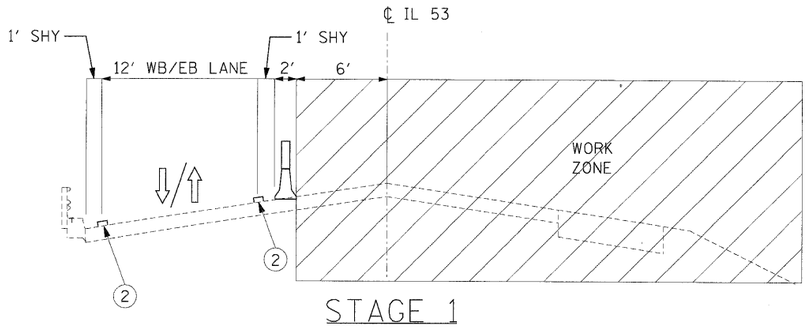
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



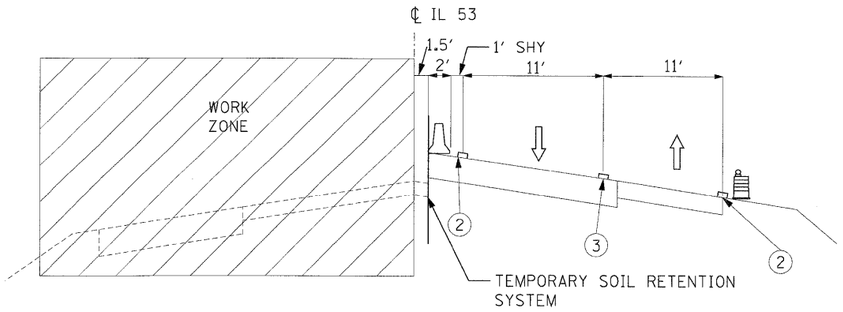
PRE-STAGE



STAGE 1
(EAST AND WEST OF BRIDGE)



STAGE 1
(OVER BRIDGE AND APPROACH PAVEMENT)



STAGE 2

SUGGESTED CONSTRUCTION STAGING

PRESTAGE

-CLOSE WESTBOUND SHOULDER AND MAINTAIN WESTBOUND AND EASTBOUND LANES.

-REMOVE EXISTING WESTBOUND GRAVEL SHOULDER AND CONSTRUCT TEMPORARY PAVEMENT ON NORTH SIDE

-INSTALL TEMPORARY LIGHTING AND SIGNALS REQUIRED FOR STAGE 1

STAGE 1

-SHIFT TRAFFIC NORTH TO THE EXISTING WESTBOUND LANE AND TEMPORARY PAVEMENT.

-CLOSE AND CONSTRUCT EASTBOUND LANES, SHOULDER, SOUTH HALF OF MEDIAN, AND TEMPORARY PAVEMENT.

-CONSTRUCT TEMPORARY SOIL RETENTION SYSTEM.

-CONSTRUCT SOUTH PORTION OF SN022-0181. (SEE DRAWING STR-3)

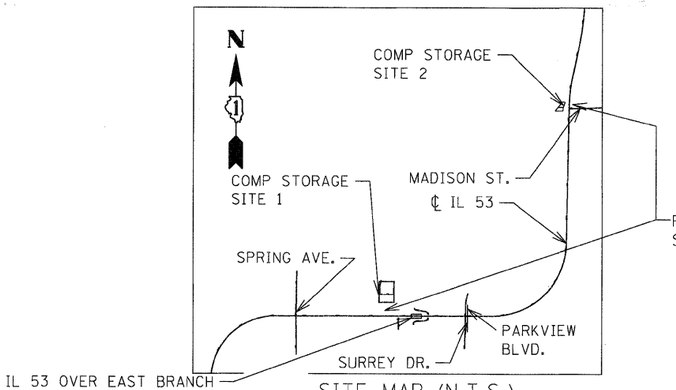
-LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER. SEE IDOT STANDARD 701321

STAGE 2

-SHIFT TRAFFIC SOUTH TO NEW EASTBOUND LANE, SHOULDER, AND TEMPORARY PAVEMENT.

-CLOSE AND CONSTRUCT SOUTH HALF OF MEDIAN, NEW WESTBOUND LANE AND SHOULDER.

-CONSTRUCT NORTH PORTION OF SN022-0181. (SEE DRAWING STR-3)



SITE MAP (N.T.S.)

LEGEND

(1) EXISTING PAVEMENT MARKINGS

(2) WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" (WHITE)

(3) WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" (DOUBLE YELLOW)

TEMPORARY CONCRETE BARRIER

DRUM (SPACED 25' C-C IN TAPER)
(SPACED 50' C-C IN TANGENT)

WORK ZONE

NOTES

1. FIRST TWO WARNING SIGNS SHALL HAVE MONO - DIRECTIONAL FLASHING LIGHTS.
2. ONE CHANGEABLE MESSAGE SIGN WILL BE PLACED AT EACH END OF THE JOB FOR THE DURATION OF THE PROJECT.
3. THE CONTRACTOR IS RESPONSIBLE FOR ACCESS POINTS TO THE CONSTRUCTION ONE AND MUST SUBMIT AN ACCESS PLAN TO RESIDENT ENGINEER FOR APPROVAL.
4. THE CONTRACTOR IS RESPONSIBLE FOR WORKER VEHICLE PARKING LOCATION AND MUST SUBMIT A PARKING PLAN TO THE RESIDENT ENGINEER FOR APPROVAL. ON STREET PARKING WILL NOT BE ALLOWED IN RESIDENTIAL AREAS.
5. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ROADWAY CLEAN AT ACCESS POINTS FOR COMPENSATORY STORAGE AND ACCESS POINTS TO THE WORK ZONE.
6. THE CONTRACTOR IS RESPONSIBLE FOR PLACING SIGNING PER IDOT DISTRICT ONE DETAIL TC-18, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS, AT COMPENSATORY STORAGE AND ALL OTHER WORK ACCESS POINTS.
7. FOR TEMPORARY LIGHTING AND TRAFFIC SIGNALS REQUIRED FOR STAGE 1, SEE DRAWINGS SIG-1 TO SIG-3 AND LTG-1 TO LTG-4.
8. A QUANTITY OF 80 SQ YD OF RUMBLE RESURFACING HAS BEEN INCLUDED TO REPAIR PAVEMENT IMPRESSIONS FROM RUMBLE STRIPS OUTSIDE OF THE CONTRACT PAVING LIMITS THAT WERE PLACED DURING STAGE 1 MAINTENANCE OF TRAFFIC.

FOR IDOT DISTRICT ONE DETAIL TC-18, SEE SHEET DIST-8

JACOBS

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		DRAWN - AEG	REVISED -
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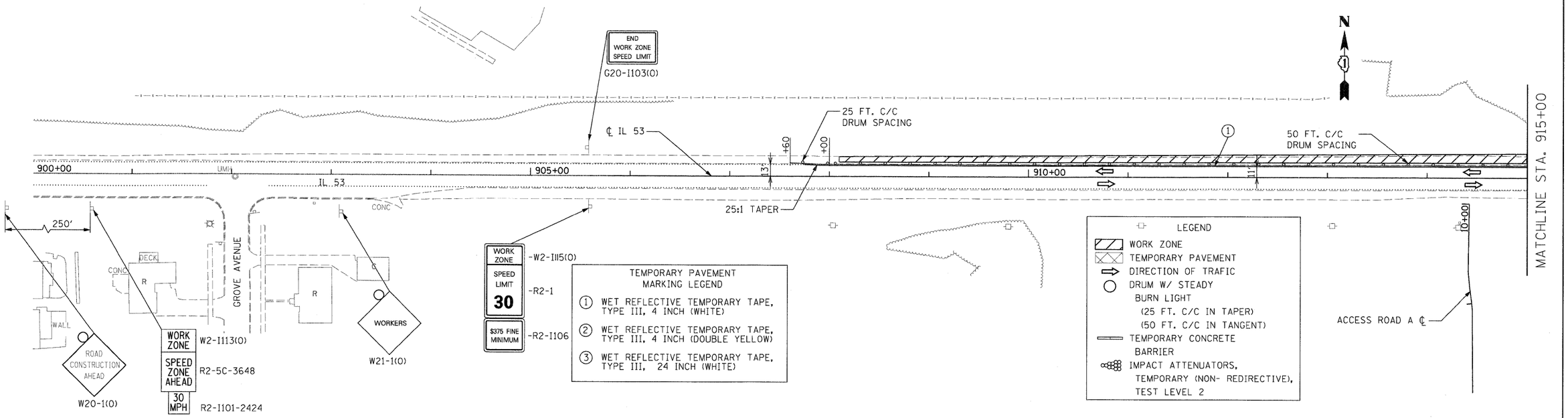
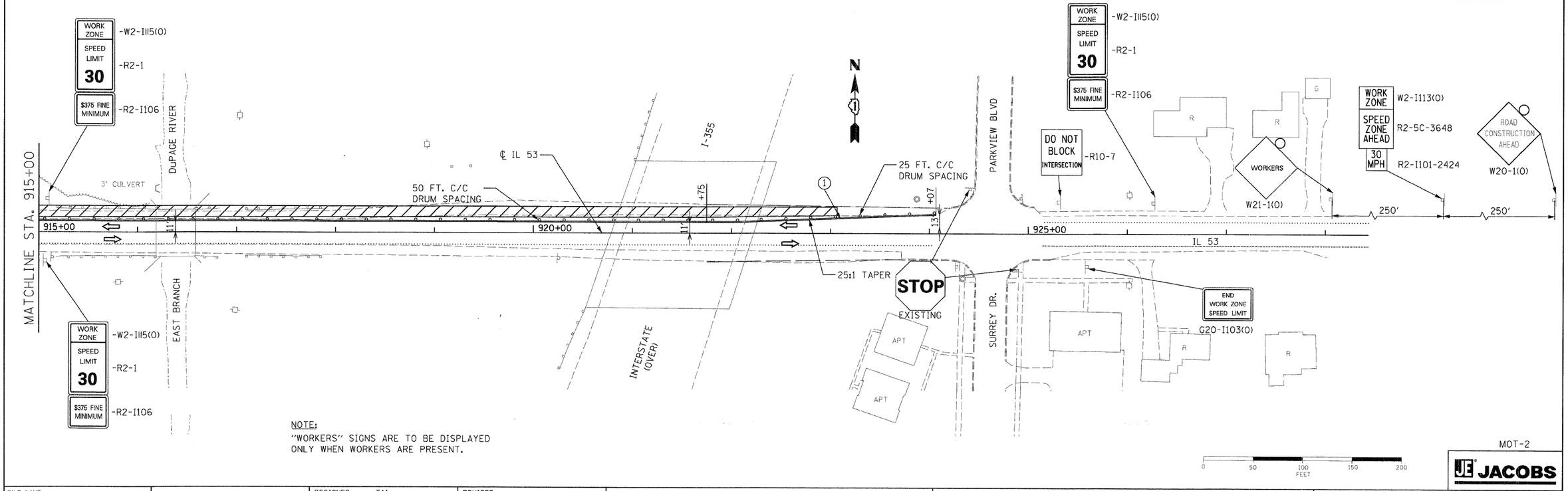
	PLOT DATE = 12/8/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL – TYPICAL SECTIONS & GENERAL NOTES
SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	15
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





NOTE:
"WORKERS" SIGNS ARE TO BE DISPLAYED ONLY WHEN WORKERS ARE PRESENT.

MOT-2

JACOBS

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		DRAWN - AEG	REVISED - ---
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	PLOT DATE = 10/6/2008	DATE - 10/15/08	REVISED - ---

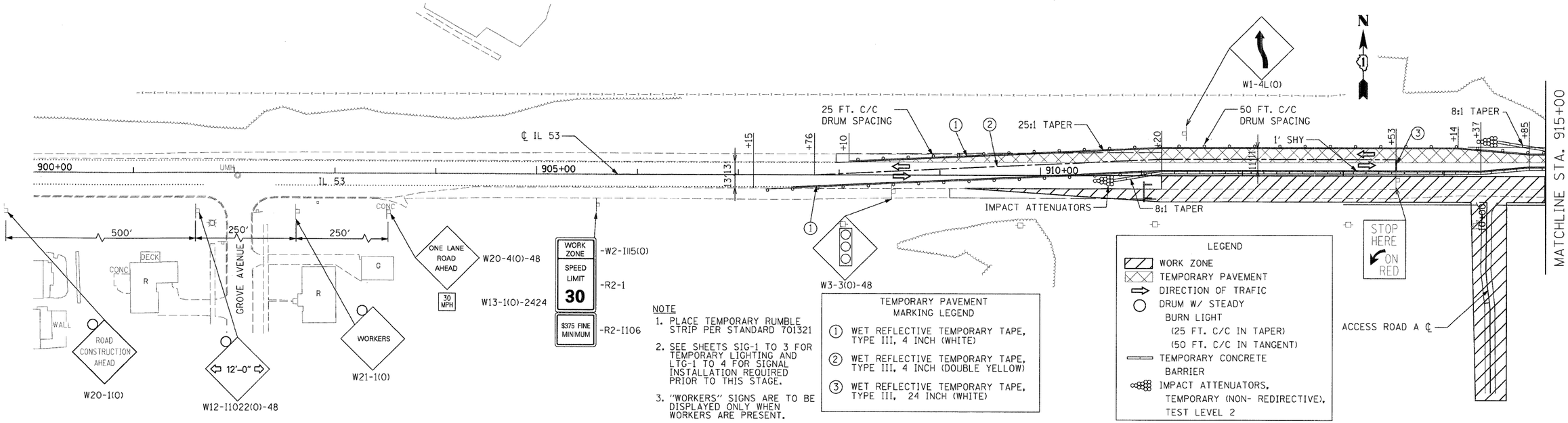
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL – PRESTAGE

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	16
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



MOT-3

JACOBS

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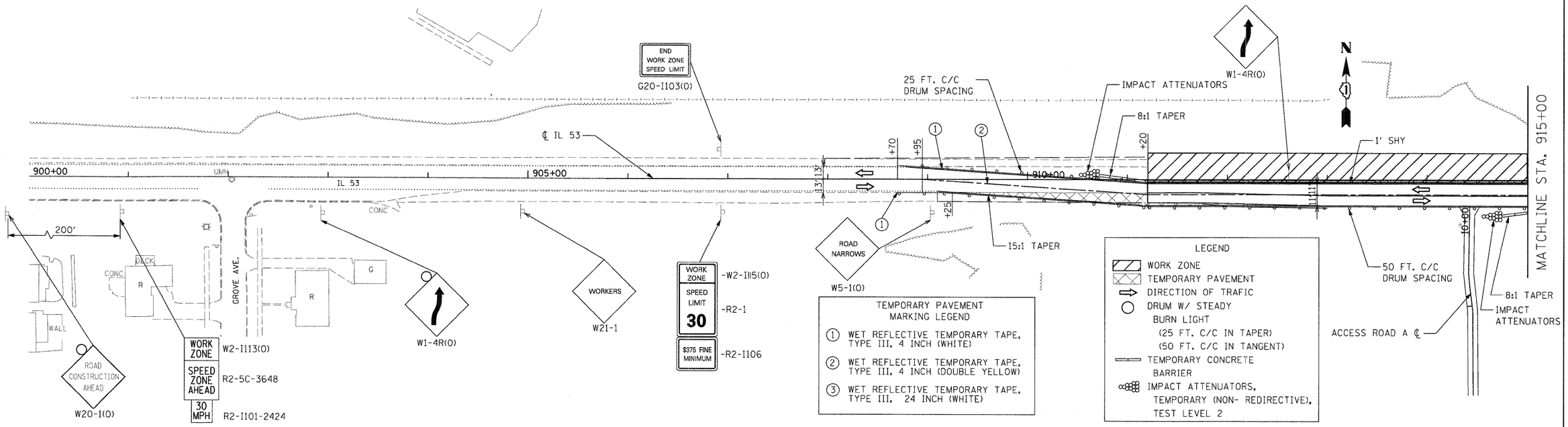
	DRAWN - AEG	REVISED - ---	
PLOT SCALE = 1' = 50'	CHECKED - PJM	REVISED - ---	
PLOT DATE = 10/8/2008	DATE - 10/15/08	REVISED - ---	

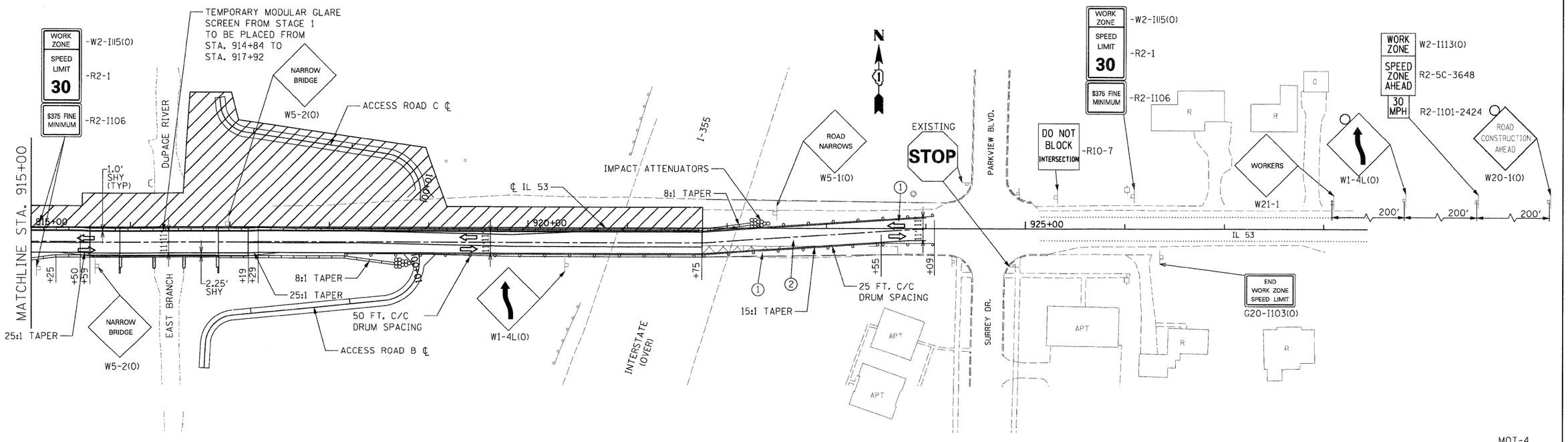
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL – STAGE 1

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	17
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





NOTE:
"WORKERS" SIGNS ARE TO BE DISPLAYED ONLY WHEN WORKERS ARE PRESENT.

MOT-4

JACOBS

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	PLOT DATE = 10/8/2008	CHECKED - PJM	REVISED - ---
		DATE - 10/15/08	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL – STAGE 2

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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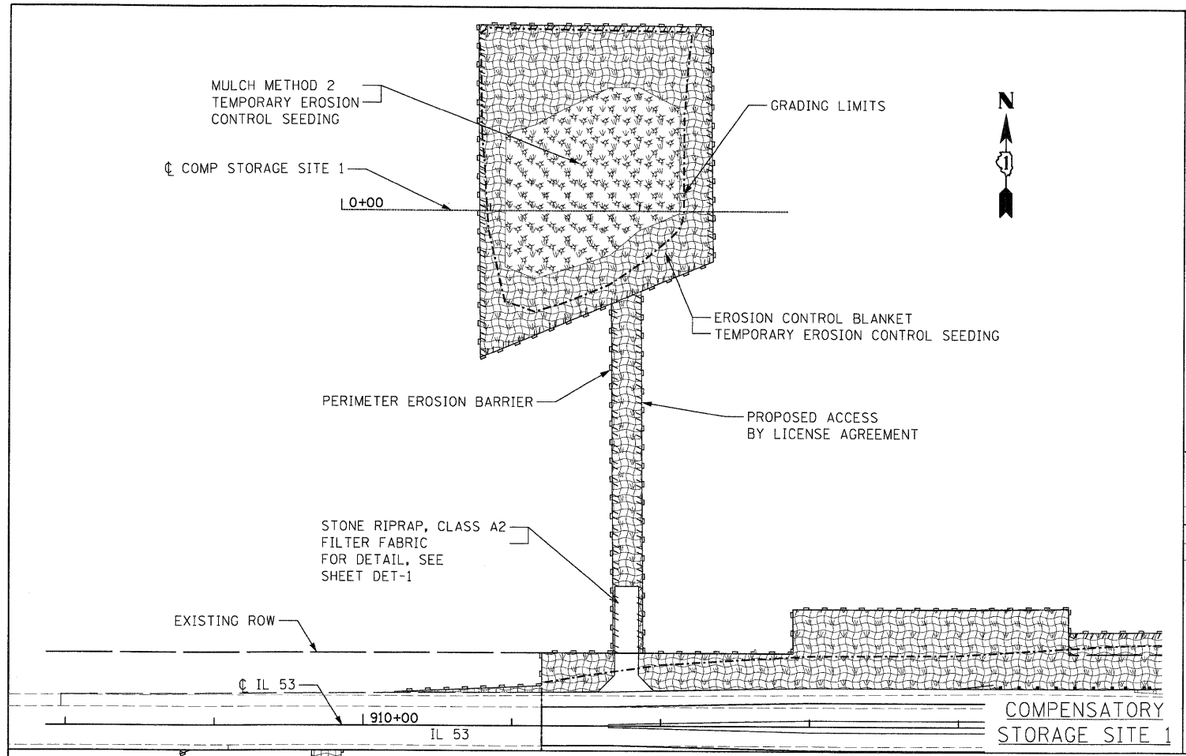
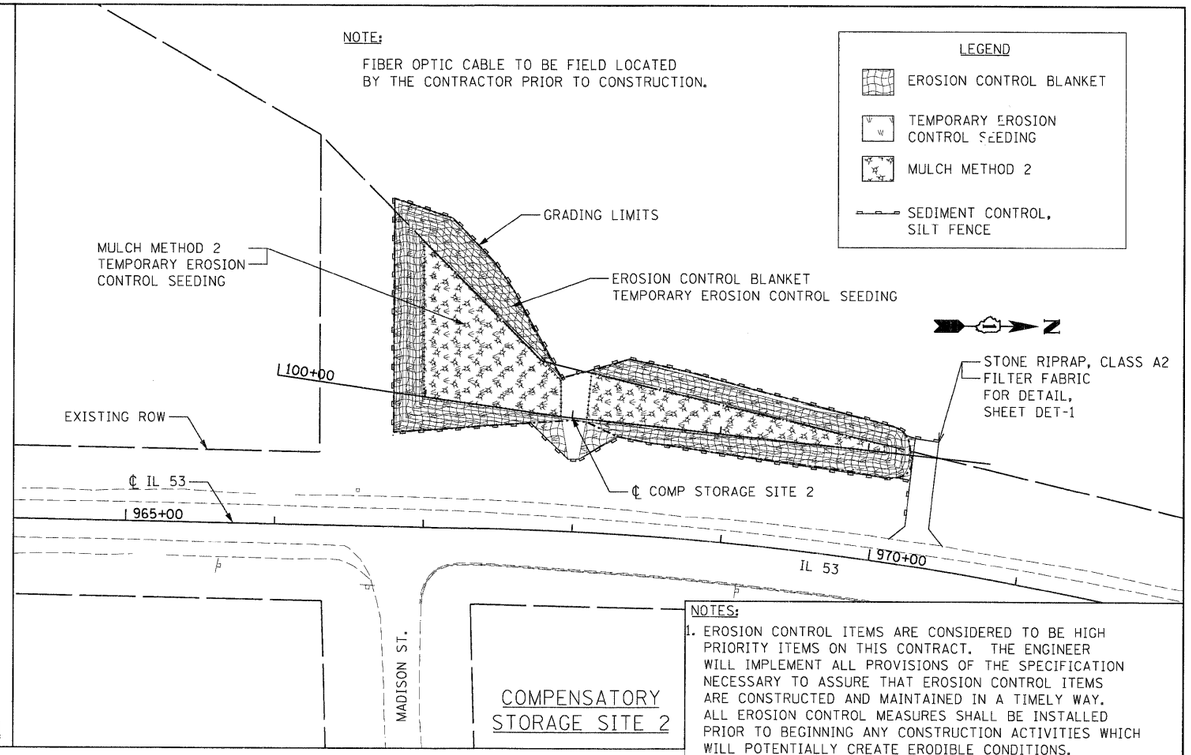
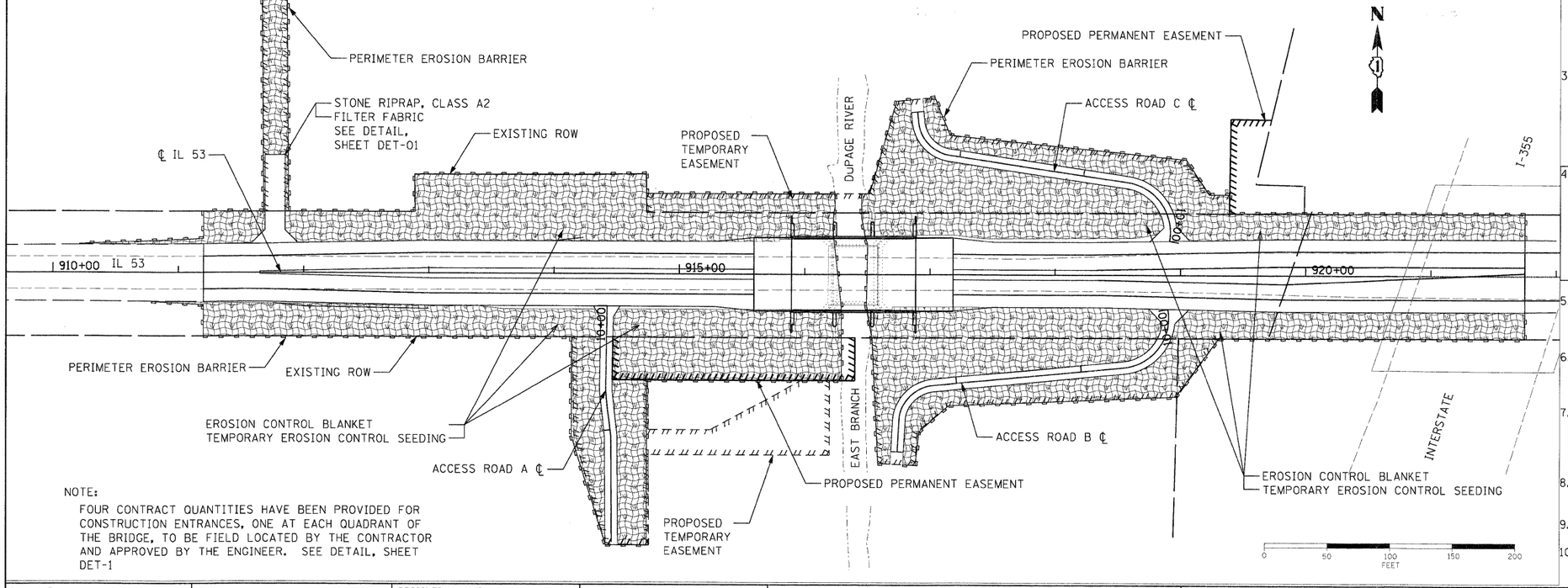
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		







NOTE:
FOUR CONTRACT QUANTITIES HAVE BEEN PROVIDED FOR CONSTRUCTION ENTRANCES, ONE AT EACH QUADRANT OF THE BRIDGE, TO BE FIELD LOCATED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. SEE DETAIL, SHEET DET-1

NOTES:

1. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.
2. THE EROSION CONTROL MEASURES SHOWN ARE A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOB SITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
3. THE CONSTRUCTION LIMIT WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
4. CONTRACTOR TO PLACE NON-INTRUSION SIGNING IN CONJUNCTION WITH SEDIMENT CONTROL SILT FENCE AS SHOWN IN THE CONTRACT DOCUMENTS. THE NON-INTRUSION SIGNS SHALL BE FURNISHED BY THE DEPARTMENT. PLEASE CONTACT IDOT- ROADSIDE DEVELOPMENT UNIT, MR. RICK WANNER AT 847-705-4172. COORDINATION AND PLACEMENT OF THE NON INTRUSION SIGNING SHALL BE CONSIDERED INCLUDED IN THE COST OF SEDIMENT CONTROL SILT FENCE.
5. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURED PRIOR TO STRIPPING EXISTING VEGETATION.
6. TEMPORARY EROSION CONTROL SEEDING SHALL BE PROVIDED PER SUB- STAGE AS SOON AS ROUGH GRADING IS COMPLETED IN A SECTION.
7. NO SEDIMENT SHALL BE ALLOWED TO FLOW DOWNSTREAM AT ANY TIME. ALL WATER FROM DEWATERING OPERATIONS SHALL BE FILTERED TO REMOVE SEDIMENT BEFORE IT IS DISCHARGED INTO THE CREEK.
8. ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.

ERO-1

9. SEE DRAWING DET-1 FOR CONSTRUCTION ENTRANCE DETAIL
10. A QUANTITY OF 1 L.SUM SEDIMENT CONTROL, SILT CURTAIN HAS BEEN ADDED TO THE EROSION CONTROL PLAN

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	DRAWN - KEB	REVISED - ---	
PLOT SCALE = 1' = 50'	CHECKED - PJM	REVISED - ---	
PLOT DATE = 10/8/2008	DATE - 10/15/08	REVISED - ---	

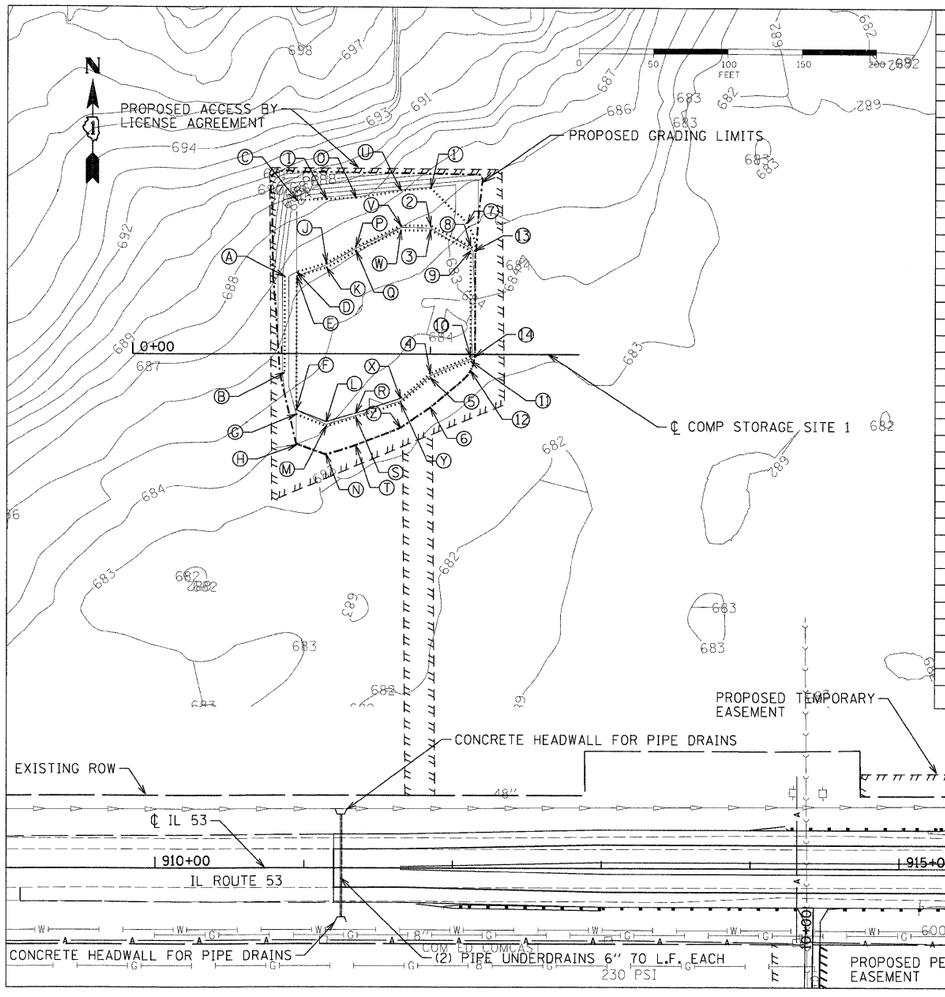
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

EROSION AND SEDIMENT CONTROL PLAN

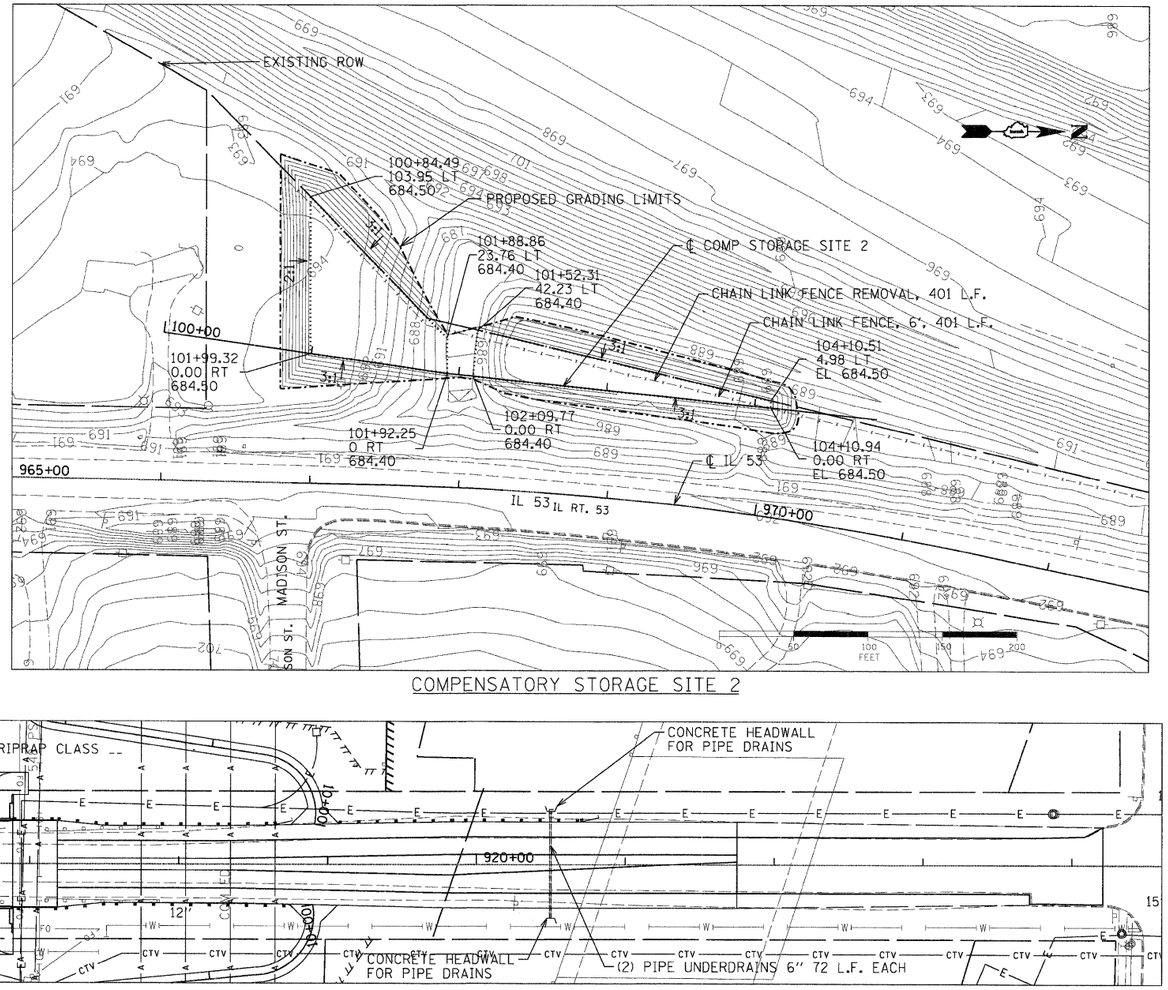
SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	19
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

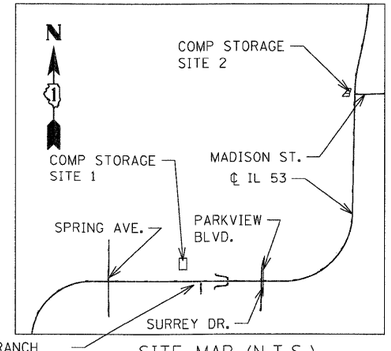


COMPENSATORY STORAGE SITE 1

	STA	O/S	ELEV
A	1+02	52.00 LT	687.44
B	1+02	12.79 RT	684.49
C	1+10	102.71 LT	684.00
D	1+10	55.00 LT	684.00
E	1+10	52.00 LT	683.00
F	1+10	38.00 RT	683.00
G	1+10	41.00 RT	684.00
H	1+10	62.00 RT	684.00
I	1+30	103.63 LT	683.40
J	1+30	61.00 LT	683.40
K	1+30	58.00 LT	682.40
L	1+30	46.00 RT	682.40
M	1+30	49.00 RT	683.40
N	1+30	68.00 RT	683.40
O	1+50	104.55 LT	683.40
P	1+50	72.00 LT	683.40
Q	1+50	69.00 LT	682.40
R	1+50	40.00 RT	682.40
S	1+50	43.00 RT	683.40
T	1+50	62.00 RT	683.40
U	1+80	109.43 LT	683.40
V	1+80	86.00 LT	683.40
W	1+80	83.00 LT	682.40
X	1+80	30.00 RT	682.40
Y	1+80	33.00 RT	683.40
Z	1+80	50.00 RT	683.40
1	2+00	111.34 LT	683.50
2	2+00	86.00 LT	683.50
3	2+00	83.00 LT	682.50
4	2+00	13.00 RT	682.50
5	2+00	16.00 RT	683.50
6	2+00	63.00 RT	683.50
7	2+24	87.47 LT	684.98
8	2+27	72.51 LT	684.49
9	2+27	69.51 LT	683.64
10	2+27	1.53 RT	682.53
11	2+27	4.53 RT	683.45
12	2+27	10.99 RT	683.37
13	2+30	69.51 LT	684.80
14	2+30	1.53 RT	683.53



COMPENSATORY STORAGE SITE 2



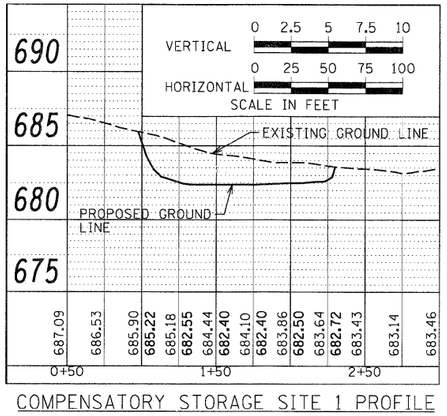
SITE MAP (N.T.S.)

NOTE:
COMPENSATORY STORAGE EXCAVATION TO BE PAID FOR AS EARTH EXCAVATION, SEE SHEET SCH-3

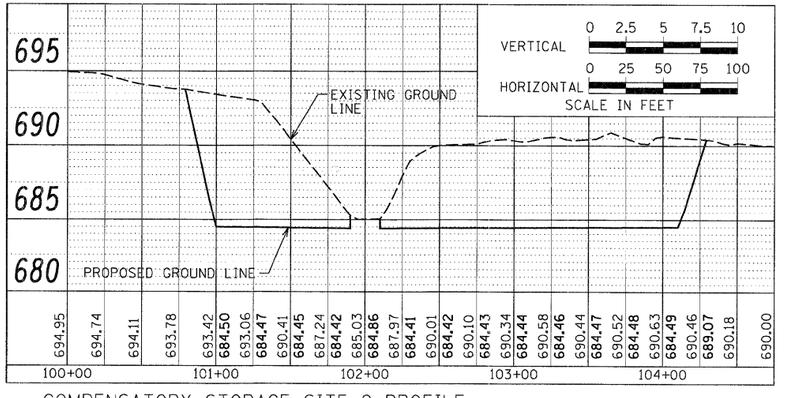
LEGEND

- PROPOSED CONTOURS
- PROPOSED GRADING LIMITS
- PROPOSED TEMPORARY EASEMENTS
- PROPOSED PERMANENT EASEMENTS
- EXISTING ROW
- PROPOSED ROW
- BREAK LINE

PROPOSED CONDITIONS



COMPENSATORY STORAGE SITE 1 PROFILE



COMPENSATORY STORAGE SITE 2 PROFILE

DU-1

JACOBS

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	DRAWN - KEB	REVISED -
PLOT SCALE = 1" = 50'	CHECKED - PJM	REVISED -
PLOT DATE = 10/9/2020	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

DRAINAGE AND COMPENSATORY STORAGE GRADING PLAN

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	20
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

N

EXISTING ROW

GRADING LIMITS

EAST BRANCH DUPAGE RIVER

TEMPORARY EASEMENT

ACCESS ROAD C

BRIDGE ABUTMENT

1 V: 3 H

14'

14'

1 V: 2 H

915+00

IL 53

10+00

BRIDGE WINGWALL

BRIDGE PIER

PERMANENT EASEMENT

ACCESS ROAD B

ACCESS ROAD A

℄ IL 53

CRD-1

0 20 40 60 80 FEET

JACOBS

FILE NAME = P:_2022\020019.004\Cadd\Sheet Files\Part 1\Bridge Grading Plan.SHT	DESIGNED - TAI	REVISED -	
	DRAWN - AEG	REVISED -	
PLOT SCALE = 1' = 50'	CHECKED - PJM	REVISED -	
PLOT DATE = 10/9/2020	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

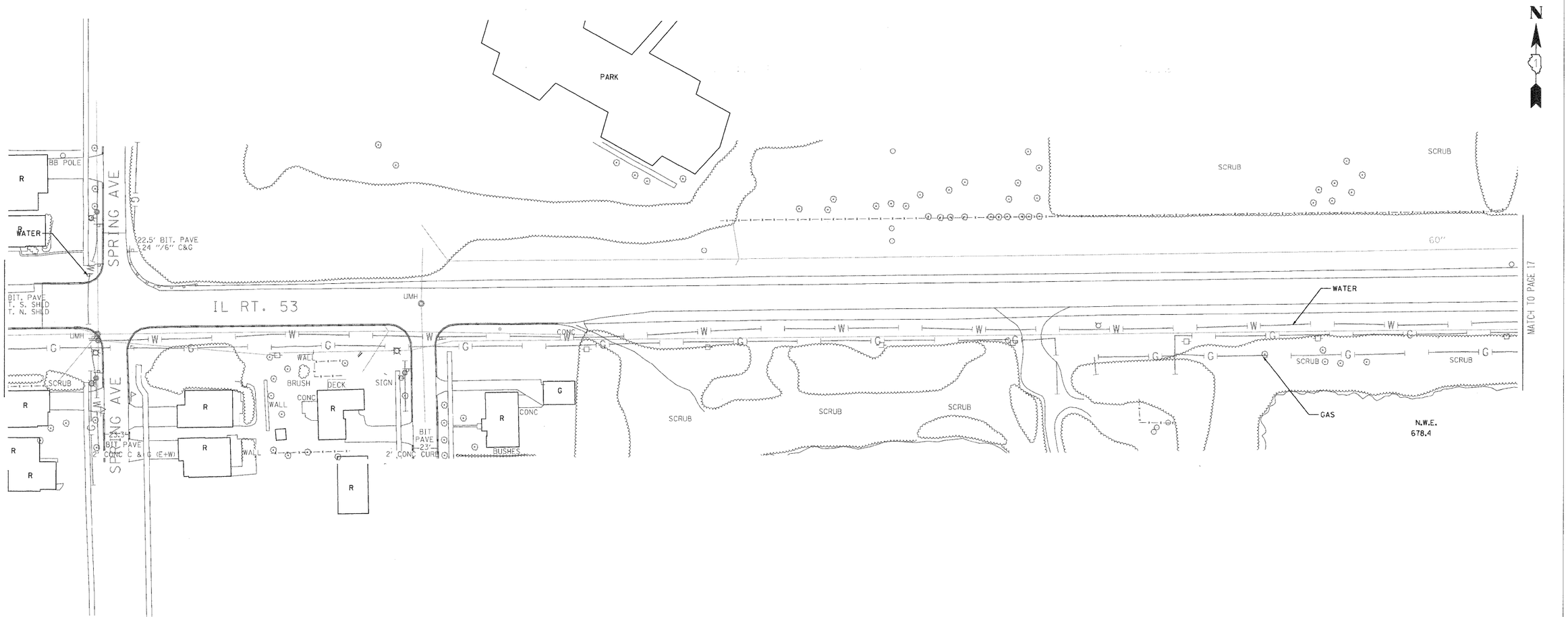
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

BRIDGE GRADING PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	21
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	533 X-B-R-1	Dupage	87	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



All utilities Quality Level "B" unless noted otherwise.

The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.) to help verify the locations of the'r existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.

SUE-1

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

IL09500102
TBE SUE PAGE NO: 16 of 28
Checked by: _____

SUE Quality Level "B" : Designating

SEWER	
FORCE MAIN	
CATV	
FIBER OPTIC	
TELEPHONE	
WATER	
GAS	
ELECTRIC	

Utilities shown in color on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. Changes to utilities after 8/27/01 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE
UPDATED BORDER	11/21/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

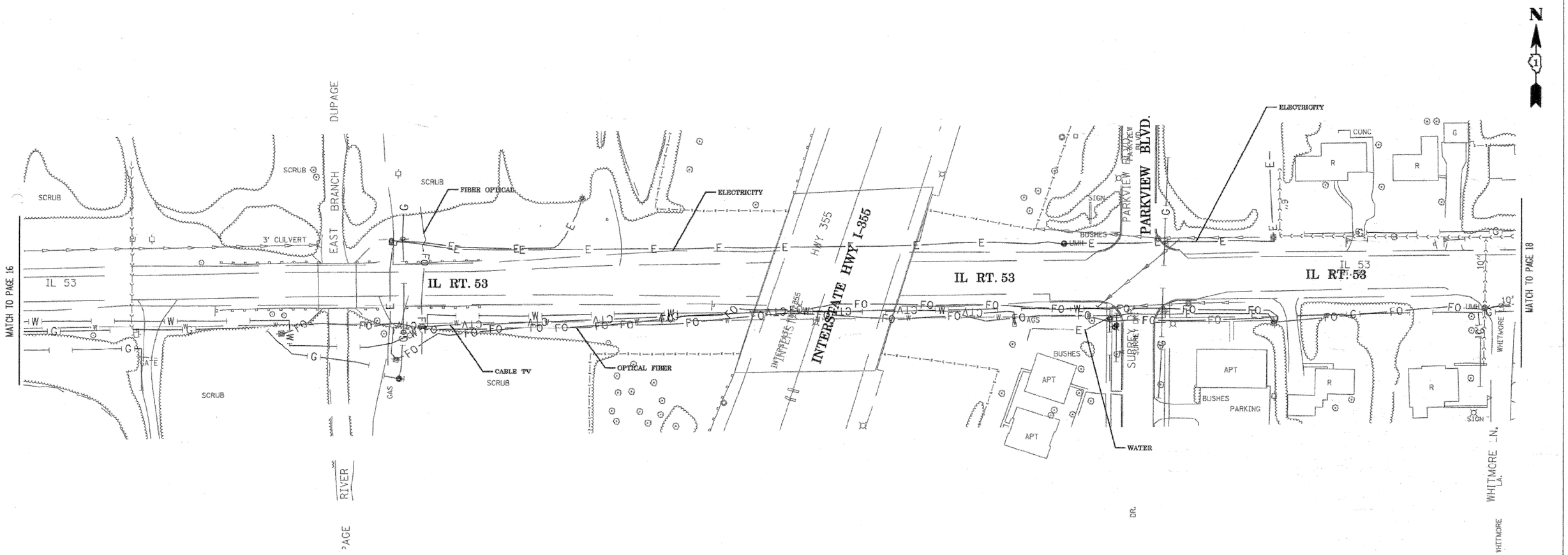
SUE Investigation of Underground Utilities

ILL RTE 53
FROM PARK BLVD TO PETERSON AVE
Contract No. 60994
Section No. (533,533) SV-1 & X (RS-8)

SCALE : 1" = 50'
DATE : AUG. 27, 2001

DRAWN BY : D.C.
CHECKED BY : Z.C.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	Dupage	87	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



All utilities Quality Level "B" unless noted otherwise.

The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.) to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.

SUE-2

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL
* PLANNING * UTILITY ENGINEERING/LOCATING

IL09500102
TBE SUE PAGE NO: 17 of 28
Checked by: _____

SUE Quality Level "B" : Designating

SEWER	
FORCE MAIN	
CATV	
FIBER OPTIC	
TELEPHONE	
WATER	
GAS	
ELECTRIC	

Utilities shown in color on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. Changes to utilities after 8/27/01 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE
UPDATED BORDER	11/21/06
DELETE WATER MAIN	3/19/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

ILL RTE 53
FROM PARK BLVD TO PETERSON AVE
Contract No. 60994
Section No. (533,533) SV-1 & X (RS-8)

SCALE : 1" = 50'
DATE : AUG. 27, 2001

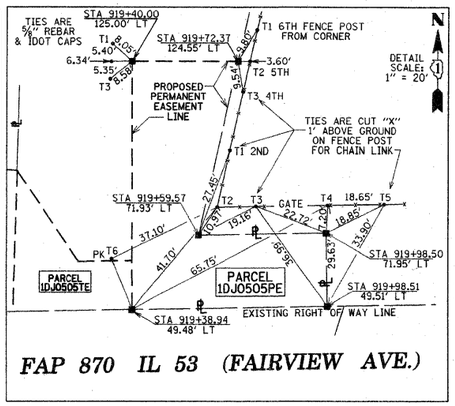
DRAWN BY : D.C.
CHECKED BY : Z.C.

PART OF THE SOUTHEAST QUARTER OF SECTION 13, TOWNSHIP 39 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, DuPAGE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDING	PART TAKEN	REMAINDER	PREVIOUSLY DEDICATED	EASEMENT	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	ACRES	ACRES	ACRES			
1DJ0501TE	FOREST PRESERVE DISTRICT OF DUPAGE COUNTY	0.101				0.049	FOR ROADWAY CONSTRUCTION	5-13-401-004	
1DJ0502PE	FOREST PRESERVE DISTRICT OF DUPAGE COUNTY					0.152	FOR ROADWAY CONSTRUCTION	5-13-313-039 5-13-405-007	
1DJ0502TE-A						0.303	FOR ROADWAY CONSTRUCTION		
1DJ0502TE-B		1.000				0.068	FOR ROADWAY CONSTRUCTION	5-13-405-007	
1DJ0503TE	COMMONWEALTH EDISON COMPANY	3.060				0.350	FOR ROADWAY CONSTRUCTION	5-13-402-001, 002	
1DJ0504TE	COMMONWEALTH EDISON COMPANY	4.190				0.259	FOR ROADWAY CONSTRUCTION	5-13-405-002	
1DJ0505TE	FOREST PRESERVE DISTRICT OF DUPAGE COUNTY	1.519				0.019	FOR ROADWAY CONSTRUCTION	5-13-402-020	
1DJ0505PE						0.063	FOR ROADWAY CONSTRUCTION		
1DJ0506TE	ILLINOIS STATE TOLL HIGHWAY AUTHORITY					0.017	FOR ROADWAY CONSTRUCTION		

POINT	TIE	DISTANCE
919+38.94 49.48' LT	T2	41.46'
	T4	65.68'
	T6	16.80'
919+40.00 125.00' LT	T1	8.05'
	T2	6.34'
	T3	8.58'
919+59.57 71.93' LT	T1	27.45'
	T2	10.97'
	T3	19.16'

POINT	TIE	DISTANCE
919+72.37 124.55' LT	T1	9.80'
	T2	3.60'
	T3	9.54'
919+98.50 71.95' LT	T3	22.72'
	T4	7.20'
	T5	18.85'
919+98.51 49.51' LT	T3	36.99'
	T4	29.63'
	T5	33.90'



F.A.P.	SECTION	COUNTY	TOTAL SHEET	SHEET NO.
870		DuPAGE	87	24
STATION 913+00.00 TO STATION 921+00.00				
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

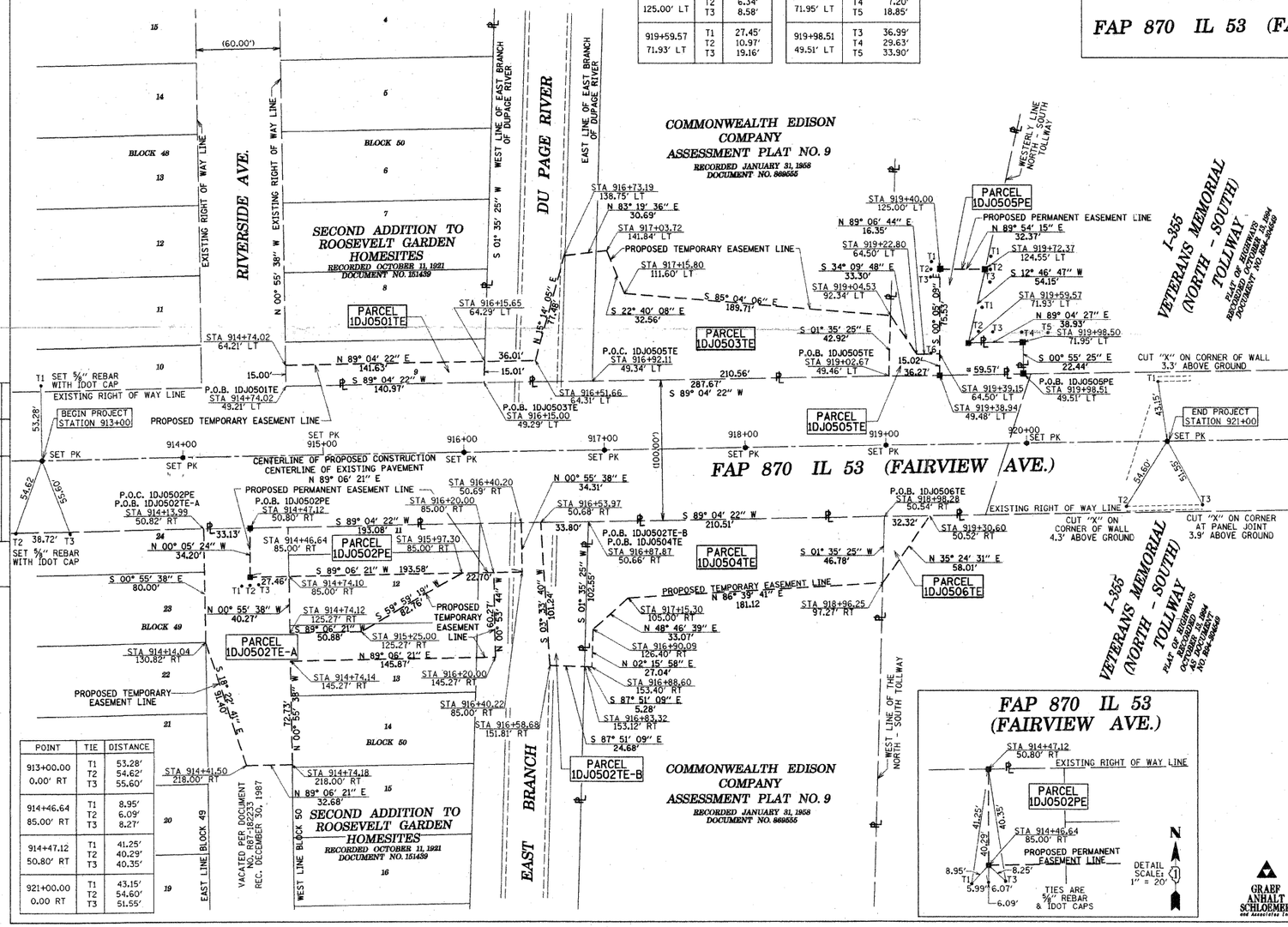
SECTION CORNER — QUARTER SECTION CORNER

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- ( ) RECORDED DATA
- EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD '83, EAST ZONE, ON THE CENTERLINE OF EXISTING AND PROPOSED CONSTRUCTION OF FAP 870 (IL 53) OF N 89° 06' 21" E

GRAPHIC SCALE - FEET (40 0 40)

- ● IRON PIPE OR ROD FOUND — ○ SET ⅝"x 30" REBAR
- \+ CUT CROSS FOUND OR SET — PK● FOUND PK NAIL — PK○ SET PK NAIL
- ● T1 T2 T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET ⅝ INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ **STAKING OF PROPOSED RIGHT OF WAY OR PERMANENT EASEMENTS.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ◕ PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.



POINT	TIE	DISTANCE
913+00.00 0.00' RT	T1	53.28'
	T2	54.62'
	T3	55.60'
914+46.64 85.00' RT	T1	8.95'
	T2	6.09'
	T3	8.27'
914+47.12 50.80' RT	T1	41.25'
	T2	40.29'
	T3	40.35'
921+00.00 0.00 RT	T1	43.15'
	T2	54.60'
	T3	51.55'

STATE OF ILLINOIS } S.S.
COUNTY OF COOK }

THIS IS TO CERTIFY THAT I, WILLIAM J. FLEMING, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 39 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, DuPAGE 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 ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATED AT CHICAGO, ILLINOIS THIS 15TH DAY OF DECEMBER, A.D. 2007.

WILLIAM J. FLEMING 35-3226 PROFESSIONAL LAND SURVEYOR

ILLINOIS PROFESSIONAL LAND SURVEYOR 35-3226
EXPIRES 11/30/2008

GROUND COORDINATES ON THE CROSS OF PK NAILS AT THE BEGIN PROJECT ℄ STATION 913+00.00 HAVE A VALUE OF 1,893,681.603 NORTH - 1,063,364.515 EAST AND ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD '83, EAST ZONE

STATION	OFFSET	NORTH	EAST
913+00.00	0.00' LT	1,893,681.603	1,063,364.515
914+74.02	49.21' LT	1,893,733.525	1,063,537.749
914+74.02	64.21' LT	1,893,748.523	1,063,537.507
916+15.65	49.29' LT	1,893,750.815	1,063,679.123
916+51.66	64.31' LT	1,893,751.398	1,063,715.132
916+73.19	138.75' LT	1,893,826.159	1,063,735.494
917+03.72	141.84' LT	1,893,829.726	1,063,765.972
917+15.80	111.60' LT	1,893,799.677	1,063,778.522
919+04.53	92.34' LT	1,893,783.368	1,063,967.531
919+22.80	64.50' LT	1,893,755.813	1,063,986.231
919+39.15	64.50' LT	1,893,756.066	1,064,002.581
919+40.00	125.00' LT	1,893,816.575	1,064,002.490
919+59.57	71.93' LT	1,893,763.818	1,064,022.880
919+72.37	124.55' LT	1,893,816.629	1,064,034.859
919+98.50	71.95' LT	1,893,764.447	1,064,061.806
919+98.51	49.51' LT	1,893,742.012	1,064,062.168
921+00.00	0.00' LT	1,893,694.086	1,064,164.417

STATION	OFFSET	NORTH	EAST
914+13.99	50.82' RT	1,893,632.566	1,063,479.287
914+14.04	130.82' RT	1,893,552.577	1,063,480.581
914+41.50	218.00' RT	1,893,465.837	1,063,509.399
914+46.64	85.00' RT	1,893,598.901	1,063,512.462
914+47.12	50.80' RT	1,893,633.105	1,063,512.409
914+74.10	85.00' RT	1,893,599.329	1,063,539.920
914+74.12	125.27' RT	1,893,559.065	1,063,540.572
914+74.14	145.27' RT	1,893,539.067	1,063,540.896
914+74.18	218.00' RT	1,893,466.347	1,063,542.073
915+25.00	125.27' RT	1,893,559.859	1,063,591.442
915+97.30	85.00' RT	1,893,601.252	1,063,663.104
916+20.00	85.00' RT	1,893,601.606	1,063,685.801
916+20.00	145.27' RT	1,893,541.343	1,063,686.743
916+40.20	50.69' RT	1,893,636.227	1,063,705.464
916+40.22	85.00' RT	1,893,601.922	1,063,706.019
916+53.97	50.68' RT	1,893,636.449	1,063,719.232
916+58.68	151.81' RT	1,893,535.408	1,063,725.520
916+83.32	153.12' RT	1,893,534.483	1,063,750.182
916+88.60	153.40' RT	1,893,534.285	1,063,755.460
916+90.09	126.40' RT	1,893,561.305	1,063,756.530
917+15.30	105.00' RT	1,893,583.096	1,063,781.402
918+96.25	97.27' RT	1,893,593.644	1,063,962.214
919+30.60	50.52' RT	1,893,640.925	1,063,995.826

REVISION	
DATE	DESCRIPTION

PTB 138/001
WORK ORDER 20
GASAI PROJECT
20063022.20

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
ENGINEERS & LAND SURVEYORS
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631
(773) 399-0112

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP 870 (IL 53)
SECTION AT DuPAGE RIVER DuPAGE COUNTY
PROJECT JOB NO. R-91-067-00
STATION 913+00.00 TO STATION 921+00.00
SCALE: 1" = 40' SHEET 24 OF 87

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

SHEET 1 OF 2 IS A COVER SHEET AND IS NOT RECORDED

RECORDING: RECORDED ON AS DOCUMENT NO.

DATE | BY | R.O.W. PLAT | MAPPED PLOTTED | BOOK # | PAGE #

PART OF THE NE 1/4 OF SEC. 13, TWP. 39 N., R. 10 E. AND PART OF THE NW FRACTIONAL 1/4 OF SEC. 18, TWP. 39 N., R. 11 E. OF THE 3RD. P.M., IN DuPAGE COUNTY, ILLINOIS.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
966+01.75	202.32' Rt.	1,896,823.560	1,066,252.168
966+03.92	250.23' Rt.	1,896,825.474	1,066,300.093
966+17.71	50.51' Rt.	1,896,840.322	1,066,100.446
966+23.00	55.51' Rt.	1,896,845.585	1,066,105.472
966+23.56	65.51' Rt.	1,896,846.096	1,066,115.474
966+31.18	200.66' Rt.	1,896,852.992	1,066,250.667
966+32.73	50.50' Rt.	1,896,855.346	1,066,100.520
966+43.99	250.22' Rt.	1,896,865.536	1,066,300.291
966+79.10	59.51' Lt.	1,896,902.304	1,065,990.753
966+79.20	54.51' Lt.	1,896,902.378	1,065,995.754
966+79.30	49.51' Lt.	1,896,902.452	1,066,000.754
967+32.89	50.47' Rt.	1,896,955.501	1,066,101.020

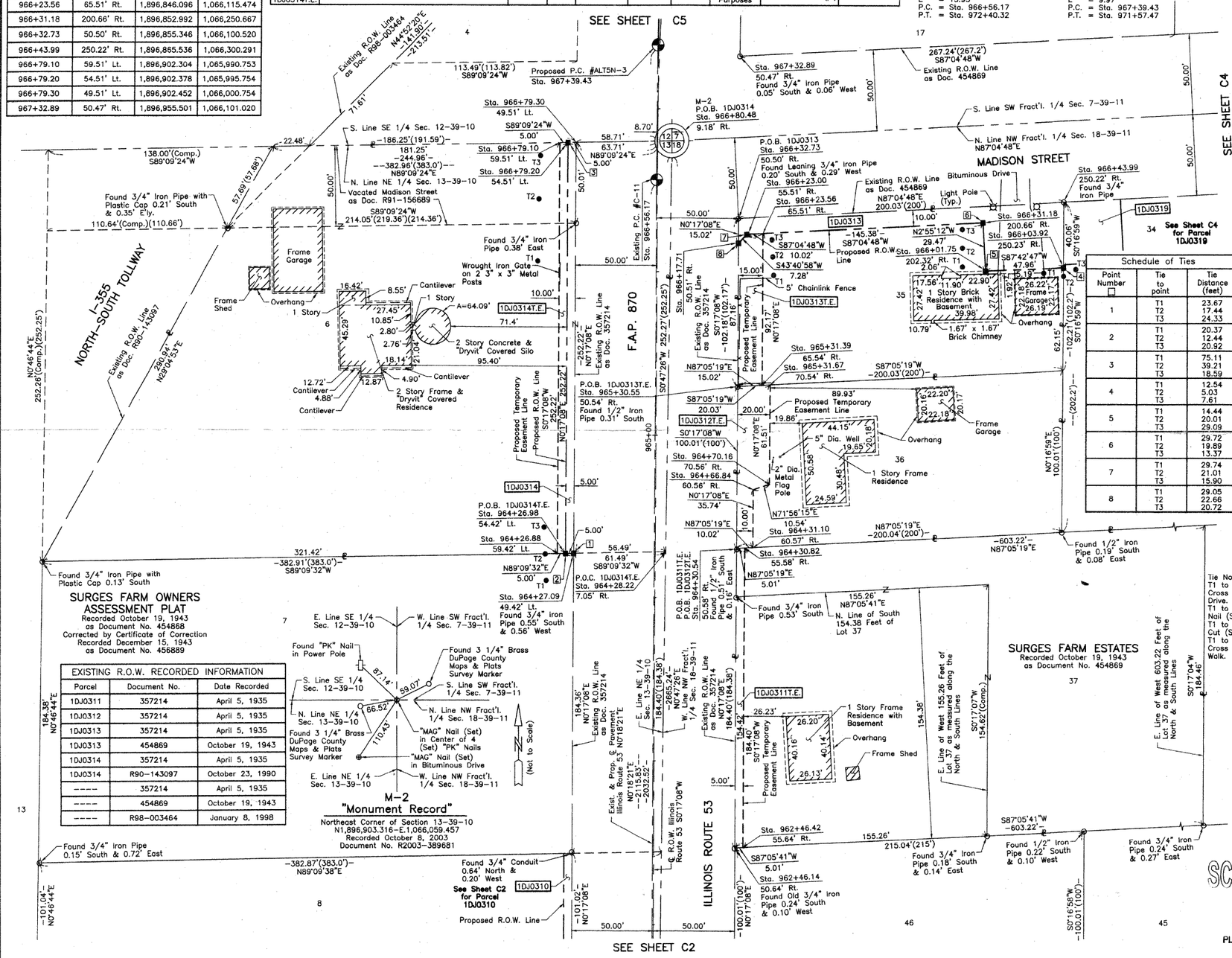
PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1DJ0311T.E.	Ronald H. Wnenkowski, a bachelor	2.550	N/A	N/A	2.550	0.021	Construction Purposes	06-18-100-024 06-18-100-025	
1DJ0312T.E.	Nick A. Nelson and Angela M. Nelson, husband and wife, as tenants by the entirety	0.459	N/A	N/A	0.459	0.037	Construction Purposes	06-18-100-002	
1DJ0313 1DJ0313T.E.	Deborah Ann Brackmann and Richard W. Brackmann, wife and husband, in joint tenancy	0.469	0.080	N/A	0.389	0.031	Construction Purposes	06-18-100-001	
1DJ0314 1DJ0314T.E.	Steve Hilliard	1.817	0.362	0.333	1.455	0.029	Construction Purposes	05-13-203-015(pt)	

Existing ℄ Pavement Illinois Route 53 Curve #C-11

P.I. = Sta. 969+49.13
Δ = 10°53'13"
R = 3074.26'
T = 292.96'
L = 584.15'
E = 13.93'
P.C. = Sta. 966+56.17
P.T. = Sta. 972+40.32

Proposed ℄ Pavement Illinois Route 53 Curve #ALT5N-3

P.I. = Sta. 969+49.08
Δ = 10°53'13"
R = 2200.04'
T = 209.65'
L = 418.04'
E = 9.97'
P.C. = Sta. 967+39.43
P.T. = Sta. 971+57.47



EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1DJ0311	357214	April 5, 1935
1DJ0312	357214	April 5, 1935
1DJ0313	357214	April 5, 1935
1DJ0313	454869	October 19, 1943
1DJ0314	357214	April 5, 1935
1DJ0314	R90-143097	October 23, 1990
----	357214	April 5, 1935
----	454869	October 19, 1943
----	R98-003464	January 8, 1998

M-2
"Monument Record"
Northeast Corner of Section 13-39-10
N1,896,903.316-E.1,066,059.457
Recorded October 8, 2003
Document No. R2003-389681

Schedule of Ties		
Point Number	Tie to point	Tie Distance (feet)
1	T1	23.67
	T2	17.44
	T3	24.33
2	T1	20.37
	T2	12.44
	T3	20.92
3	T1	75.11
	T2	39.21
	T3	18.59
4	T1	12.54
	T2	5.03
	T3	7.61
5	T1	14.44
	T2	20.01
	T3	29.09
6	T1	29.72
	T2	19.89
	T3	13.37
7	T1	29.74
	T2	21.01
	T3	15.90
8	T1	29.05
	T2	22.66
	T3	20.72

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
962+46.14	50.64' Rt.	1,896,468.766	1,066,098.594
962+46.42	55.64' Rt.	1,896,469.020	1,066,103.595
964+26.88	59.42' Lt.	1,896,650.091	1,065,989.496
964+26.98	54.42' Lt.	1,896,650.165	1,065,994.497
964+27.09	49.42' Lt.	1,896,650.238	1,065,999.497
964+28.22	7.05' Rt.	1,896,651.068	1,066,055.976
964+30.54	50.58' Rt.	1,896,653.160	1,066,099.513
964+30.82	55.58' Rt.	1,896,653.414	1,066,104.514
964+31.10	60.57' Rt.	1,896,653.669	1,066,109.516
964+66.84	60.56' Rt.	1,896,689.405	1,066,109.694
964+70.16	70.56' Rt.	1,896,692.672	1,066,119.710
965+30.55	50.54' Rt.	1,896,753.168	1,066,100.011
965+31.39	65.54' Rt.	1,896,753.931	1,066,115.015
965+31.67	70.54' Rt.	1,896,754.185	1,066,120.016

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

N

SCALE: 1"=30'

Bearings are referenced to the Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1 T2 T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 **THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
- ■ **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 STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 13, TOWNSHIP 39N., RANGE 10E. AND FRACTIONAL SECTION 18, TOWNSHIP 39N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, DuPAGE 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 LAKE VILLA, ILLINOIS THIS 8th DAY OF October 20 03 A.D.

Christian H. Jorgensen PRESIDENT

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2004

NOTE: COORDINATES ARE GROUND VALUES AND CAN BE CONVERTED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION PROVIDED GRID VALUES BY MULTIPLYING THE PUBLISHED GROUND COORDINATES BY A SCALE FACTOR OF 0.99998247.

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. 870 (IL 53)

SECTION DuPAGE COUNTY
PROJECT JOB NO. R-91-067-00
STATION 962+00 TO STATION 967+00
SCALE: 1"=30' SHEET 25 OF 87 SHEETS

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

SCANNED

RECEIVED
APR 24 2008
PLATS & LEGALS

MADE BY

REVISION DATE March 7, 2008 September 24, 2002
REVISION Update Topography on Parcel 1DJ0314 Parcel 1DJ0313 & T.E. Configuration

ROUTE F.A.P. 870 (IL 53) SECTION COUNTY DuPAGE JOB NO. R-91-067-00

RECORDING: RECORDED ON AS DOCUMENT NO.

ROW PLAT	NOTEBOOK NO	MADE	CHECKED	INKED	BY	DATE

PART OF THE SE 1/4 OF SEC. 12, TWP. 39 N., R. 10 E. AND PART OF THE SW FRACTIONAL 1/4 OF SEC. 7, TWP. 39 N., R. 11 E. OF THE 3RD. P.M., IN DuPAGE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1DJ0315–A 1DJ0315–B 1DJ0315T.E.	Gilbert H. Sorensen and Jeffrey G. Sorensen, as joint tenants	0.931	A=0.033 B=0.064	N/A	0.834	0.091	Construction Purposes	06-07-304-007	
1DJ0316 1DJ0316T.E.	Jeffrey G. Sorensen and Helen Sorensen, husband and wife, as tenants by the entirety	0.893	0.029	N/A	0.864	0.080	Construction Purposes	06-07-304-035	
1DJ0317 1DJ0317T.E.	Robert J. Benard, Jr. and Mary A. Benard, as joint tenants	0.518	0.033	N/A	0.485	0.034	Construction Purposes	06-07-304-027	

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
967+58.48	55.90' Rt.	1,896,980.581	1,066,106.666
967+75.26	113.98' Lt.	1,897,000.602	1,065,937.116
967+84.80	237.71' Rt.	1,897,001.513	1,066,288.927
967+91.32	302.46' Rt.	1,897,005.444	1,066,353.811
968+87.93	45.51' Rt.	1,897,107.365	1,066,101.776
968+88.57	50.47' Rt.	1,897,107.622	1,066,106.770
968+89.20	55.42' Rt.	1,897,107.878	1,066,111.753
968+91.79	75.34' Rt.	1,897,108.910	1,066,131.801
969+66.16	51.59' Rt.	1,897,183.001	1,066,114.756
969+66.62	54.34' Rt.	1,897,183.144	1,066,117.538
970+07.89	68.47' Rt.	1,897,221.321	1,066,136.291
970+12.80	94.16' Rt.	1,897,222.719	1,066,162.375
970+41.72	39.99' Rt.	1,897,257.853	1,066,112.510
970+44.84	55.44' Rt.	1,897,258.664	1,066,128.245
970+46.83	65.19' Rt.	1,897,259.175	1,066,138.169
970+52.08	90.44' Rt.	1,897,260.499	1,066,163.886
971+17.26	63.44' Rt.	1,897,326.937	1,066,147.406
971+23.81	88.74' Rt.	1,897,328.666	1,066,173.427
971+34.78	37.47' Rt.	1,897,348.455	1,066,124.943
971+38.67	53.19' Rt.	1,897,349.287	1,066,141.094
971+47.50	88.10' Rt.	1,897,351.137	1,066,176.992

Schedule of Ties

Point Number ☐	Tie to point	Tie Distance (feet)
1	T1 T2 T3	16.29 36.97 54.88
2	T1 T2 T3	35.20 19.45 30.27
3	T1 T2 T3	56.67 30.91 12.66
4	T1 T2 T3	54.80 30.52 17.17
5	T1 T2 T3	15.15 19.15 38.53
6	T1 T2 T3	22.68 26.86 43.59
7	T1 T2 T3	20.58 35.21 57.46
8	T1 T2 T3	37.03 36.29 46.81
9	T1 T2 T3	39.91 29.71 40.77
10	T1 T2 T3	38.18 26.92 38.51

T3 to Point Nos. 1 & 2 is a "MAG" Nail (Set) in Bituminous Drive.

EXISTING R.O.W. RECORDED INFORMATION

Parcel	Document No.	Date Recorded
1DJ0315	357214	April 5, 1935
1DJ0315	454869	October 19, 1943
1DJ0316	R88–016490	February 18, 1988
1DJ0316	R88–067931	June 27, 1988
1DJ0317	88 ED 028	*September 13, 1988
----	357214	April 5, 1935
----	454869	October 19, 1943
----	456350	November 29, 1943
----	R90–143097	October 23, 1990
----	R98–003464	January 8, 1998
----	R98–003465	January 8, 1998
----	R99–059283	March 10, 1999
----	R99–059284	March 10, 1999

* Date Filed

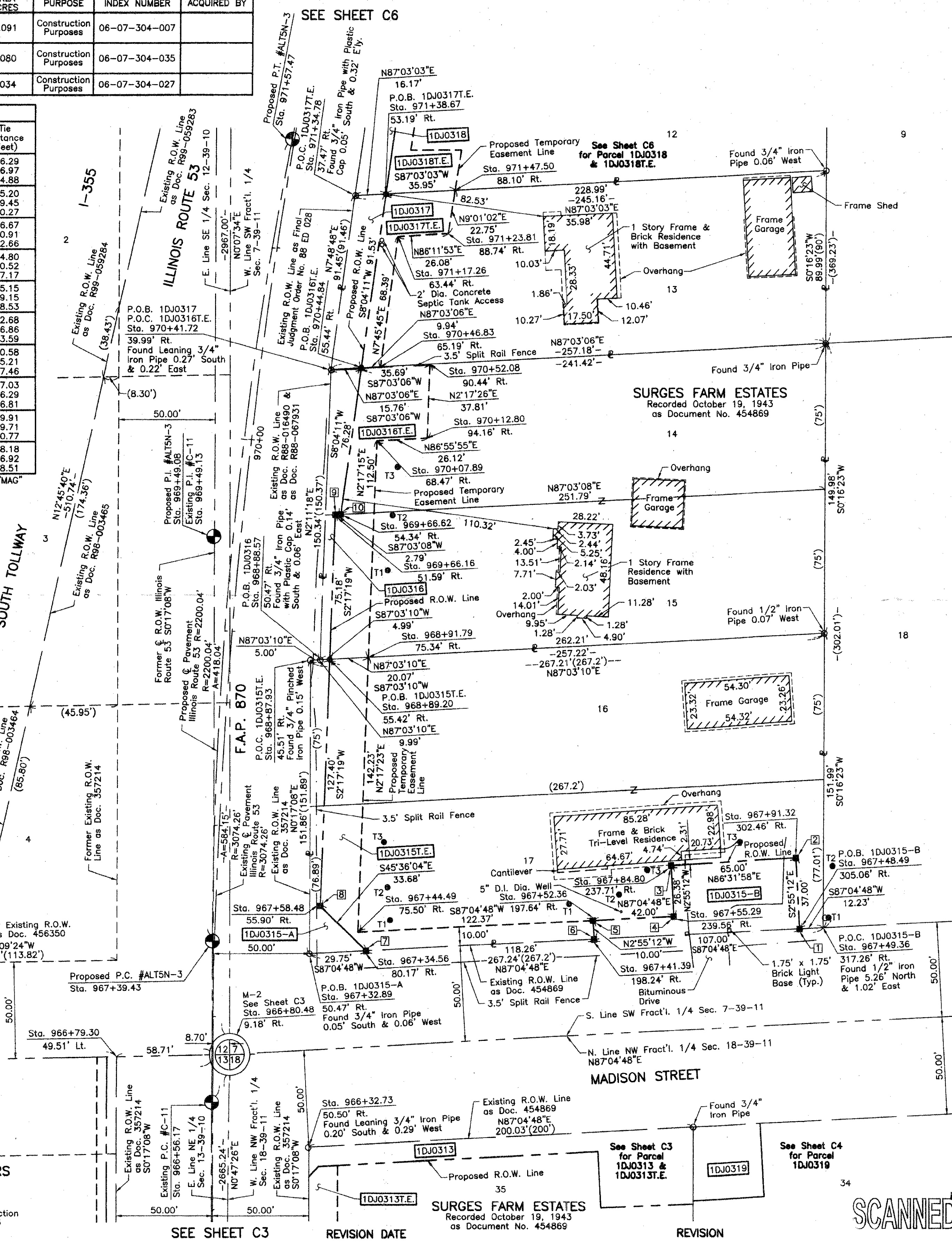
DATE				
BY				
	MADE	CHECKED	INKED	
ROW PLAT				NOTEBOOK NO

Existing ℄ Pavement Illinois Route 53 Curve #C–11

P.I. = Sta. 969+49.13
Δ = 10°53'13"
R = 3074.26'
T = 292.96'
L = 584.15'
E = 13.93'
P.C. = Sta. 966+56.17
P.T. = Sta. 972+40.32

Proposed ℄ Pavement Illinois Route 53 Curve #ALT5N–3

P.I. = Sta. 969+49.08
Δ = 10°53'13"
R = 2200.04'
T = 209.65'
L = 418.04'
E = 9.97'
P.C. = Sta. 976+39.43
P.T. = Sta. 971+57.47



SURGES FARM OWNERS ASSESSMENT PLAT
Recorded October 19, 1943
as Document No. 454868
Corrected by Certificate of Correction
Recorded December 15, 1943
as Document No. 456889

SURGES FARM ESTATES
Recorded October 19, 1943
as Document No. 454869

LEGEND

SECTION CORNER
QUARTER SECTION CORNER
SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
120.32' MEASURED DIMENSION
129.32'(Comp.) COMPUTED DIMENSION
( ) RECORD DATA
EXISTING BUILDING

N

SCALE: 1"=30' (0 30' 60')

Bearings are referenced to the Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

○ IRON PIPE OR ROD FOUND
⊕ "MAG" NAIL SET
\+ CUT CROSS FOUND OR SET
● 5/8" REBAR SET

● T1 T2 T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● BT1 BT2 BT3 **THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER

■ **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 STD 2135 (TO BE SET BY OTHERS)

☐ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184–2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 12, TOWNSHIP 39N., RANGE 10E. AND FRACTIONAL SECTION 7, TOWNSHIP 39N., RANGE 11E., OF THE THIRD PRINCIPAL MERIDIAN, DuPAGE 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 LAKE VILLA, ILLINOIS THIS 26th DAY OF September 20 03 A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35–2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2004

NOTE: COORDINATES ARE GROUND VALUES AND CAN BE CONVERTED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION PROVIDED GRID VALUES BY MULTIPLYING THE PUBLISHED GROUND COORDINATES BY A SCALE FACTOR OF 0.99998247.

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
966+32.73	50.50' Rt.	1,896,855.346	1,066,100.520
966+75.57	235.73' Lt.	1,896,899.710	1,065,814.519
966+76.02	213.25' Lt.	1,896,900.041	1,065,837.002
966+79.30	49.51' Lt.	1,896,902.452	1,066,000.754
966+80.48	9.18' Rt.	1,896,903.316	1,066,059.457
967+32.89	50.47' Rt.	1,896,955.501	1,066,101.020
967+34.56	80.17' Rt.	1,896,957.017	1,066,130.730
967+41.39	198.24' Rt.	1,896,963.041	1,066,248.835
967+44.49	75.50' Rt.	1,896,966.794	1,066,126.118
967+48.49	305.06' Rt.	1,896,968.492	1,066,355.696
967+49.36	317.26' Rt.	1,896,969.115	1,066,367.912
967+52.36	197.64' Rt.	1,896,973.028	1,066,248.326
967+55.29	239.56' Rt.	1,896,975.168	1,066,290.271

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356–3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 870 (IL 53)

SECTION
PROJECT
STATION 966+00 TO STATION 971+50
SCALE: 1"=30'
DuPAGE COUNTY
JOB NO. R–91–067–00
SHEET 26 OF 87

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

RECEIVED
APR 3 0 2008
MML
PLATS & LEGALS

SCANNED

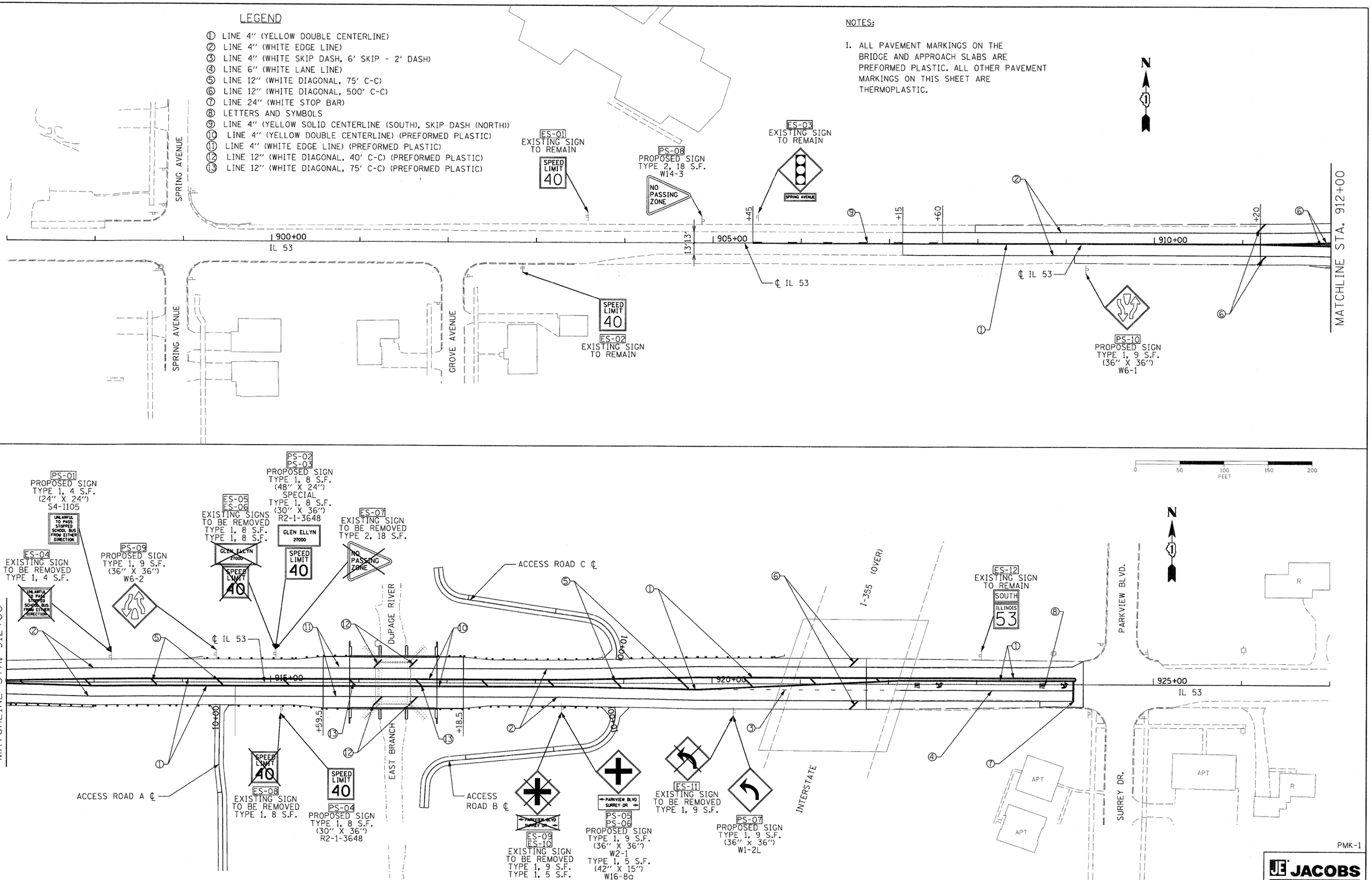
REVISION DATE | REVISION | MADE BY

LEGEND

① LINE 4" (YELLOW DOUBLE CENTERLINE)
② LINE 4" (WHITE EDGE LINE)
③ LINE 4" (WHITE SKIP DASH, 6' SKIP - 2' DASH)
④ LINE 6" (WHITE LANE LINE)
⑤ LINE 12" (WHITE DIAGONAL, 75' C-C)
⑥ LINE 12" (WHITE DIAGONAL, 500' C-C)
⑦ LINE 24" (WHITE STOP BAR)
⑧ LETTERS AND SYMBOLS
⑨ LINE 4" (YELLOW SOLID CENTERLINE (SOUTH), SKIP DASH (NORTH))
⑩ LINE 4" (YELLOW DOUBLE CENTERLINE) (PREFORMED PLASTIC)
⑪ LINE 4" (WHITE EDGE LINE) (PREFORMED PLASTIC)
⑫ LINE 12" (WHITE DIAGONAL, 40' C-C) (PREFORMED PLASTIC)
⑬ LINE 12" (WHITE DIAGONAL, 75' C-C) (PREFORMED PLASTIC)

NOTES:

1. ALL PAVEMENT MARKINGS ON THE BRIDGE AND APPROACH SLABS ARE PREFORMED PLASTIC. ALL OTHER PAVEMENT MARKINGS ON THIS SHEET ARE THERMOPLASTIC.



PMK-1

JACOBS

FILE NAME = P:_2002\020019.004\Cadd\Sheet Files\Part 1\PVMT_MAKR.SHT	DESIGNED - TAI	REVISED - ---	
	DRAWN - KEB	REVISED - ---	
PLOT SCALE = 1' = 50'	CHECKED - PJM	REVISED - ---	
PLOT DATE = 10/8/2008	DATE - 10/15/08	REVISED - ---	

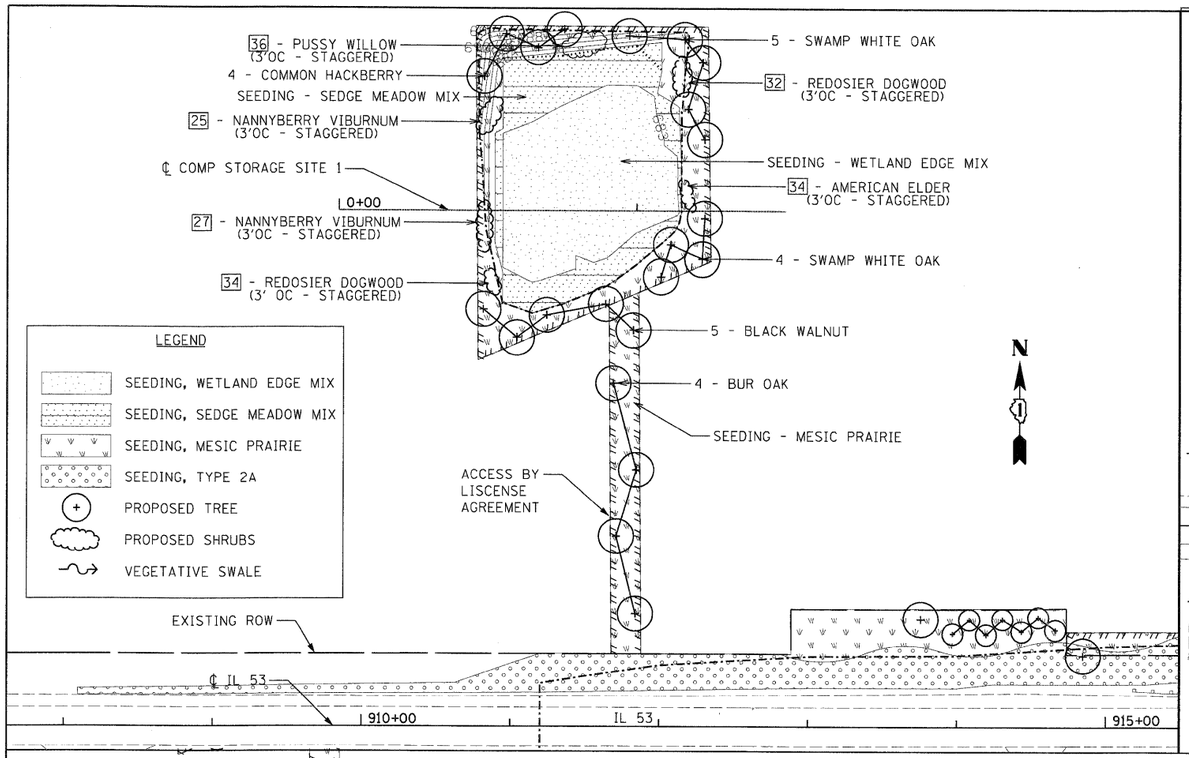
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

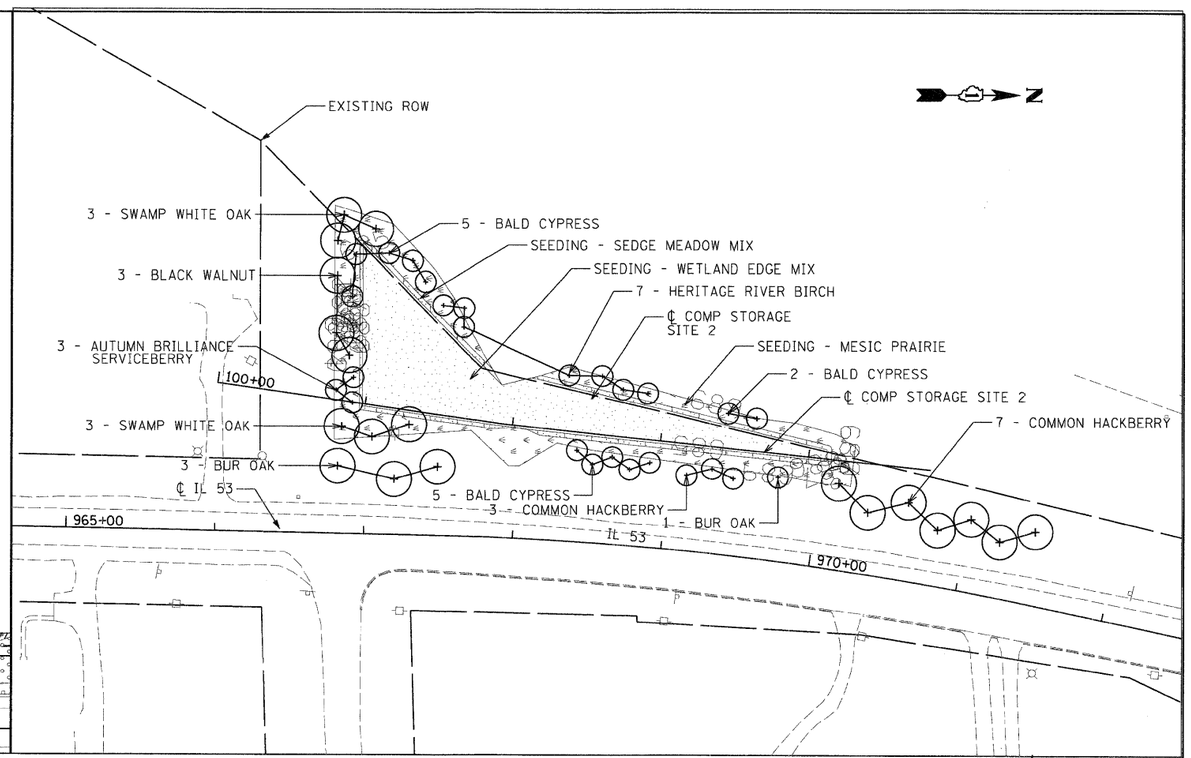
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

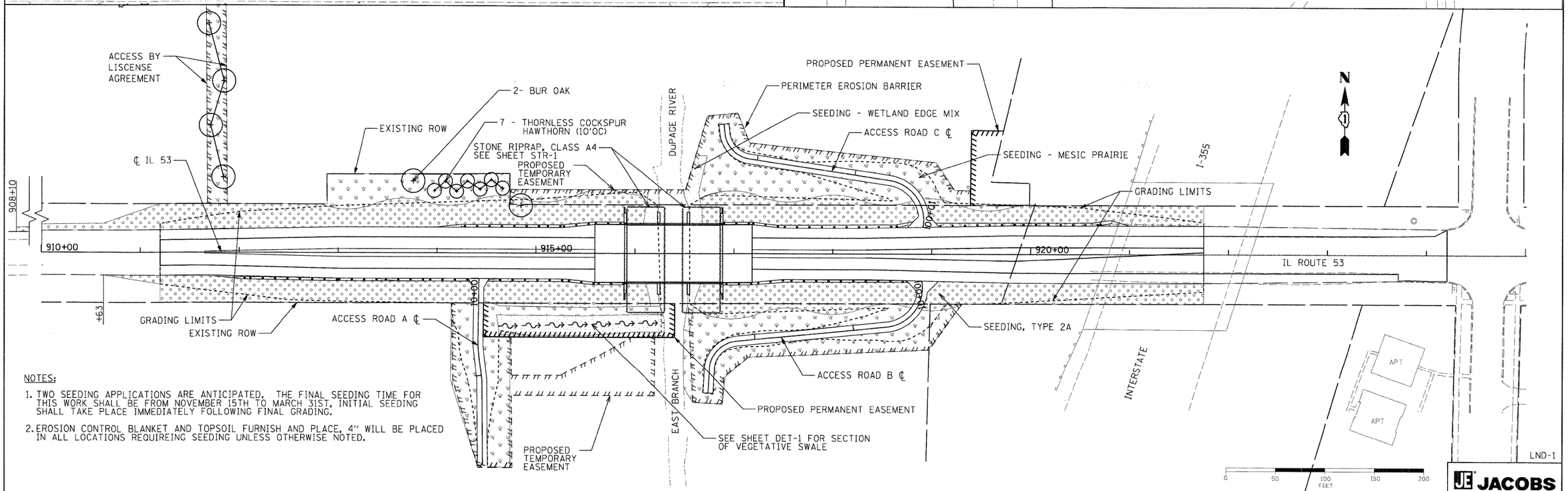
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	27
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		







NOTES:

1. TWO SEEDING APPLICATIONS ARE ANTICIPATED. THE FINAL SEEDING TIME FOR THIS WORK SHALL BE FROM NOVEMBER 15TH TO MARCH 31ST, INITIAL SEEDING SHALL TAKE PLACE IMMEDIATELY FOLLOWING FINAL GRADING.
2. EROSION CONTROL BLANKET AND TOPSOIL FURNISH AND PLACE, 4" WILL BE PLACED IN ALL LOCATIONS REQUIREING SEEDING UNLESS OTHERWISE NOTED.

LND-1

JACOBS

FILE NAME = P:_2002\020019.004\Cadd\Sheet Files\Part 1\LAND.SHT	DESIGNED - TAI	REVISED -	
	DRAWN - KEB	REVISED -	
PLOT SCALE = 1" = 50'	CHECKED - PJM	REVISED -	
PLOT DATE = 10/10/2008	DATE - 10/15/08	REVISED -	

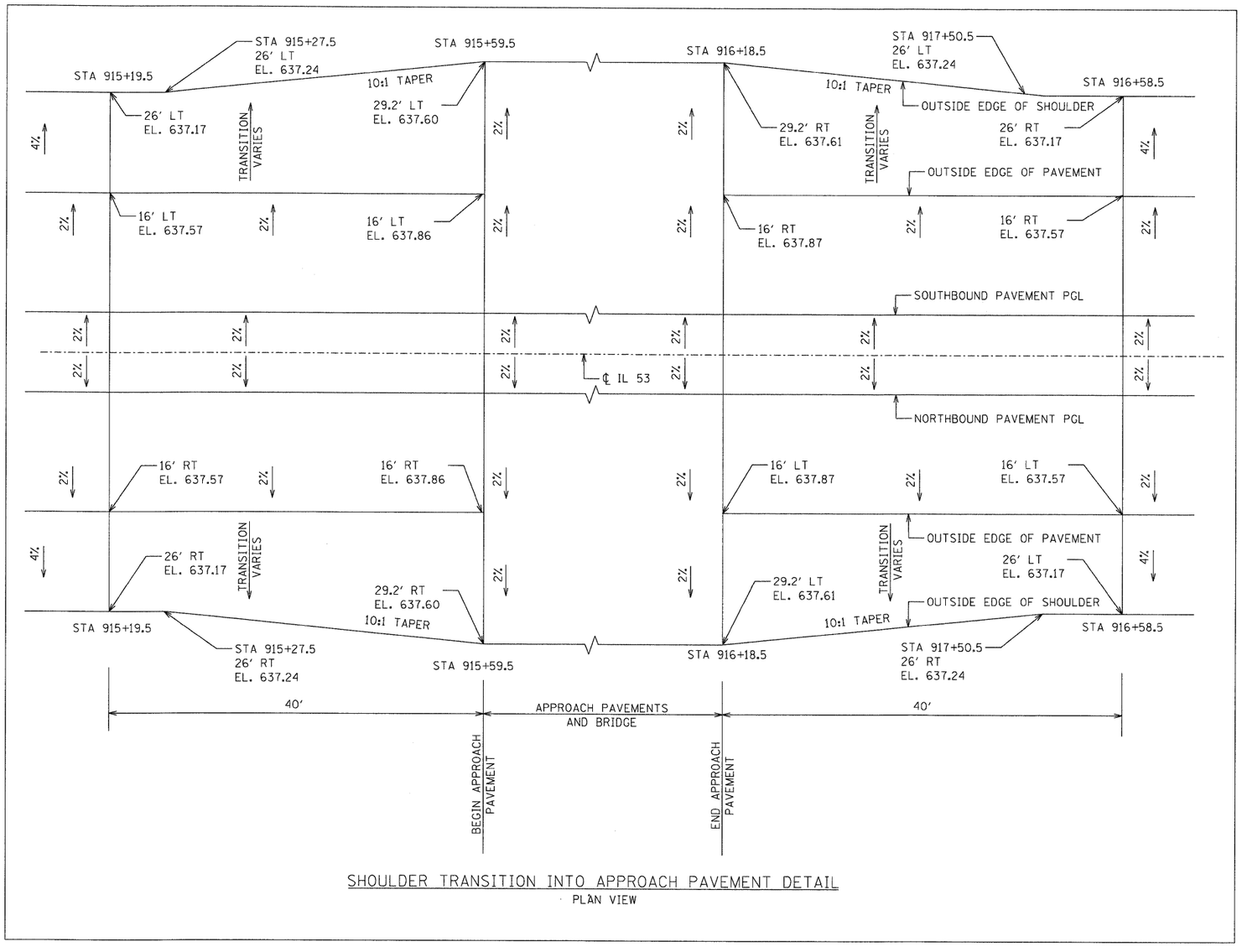
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

LANDSCAPING PLAN

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

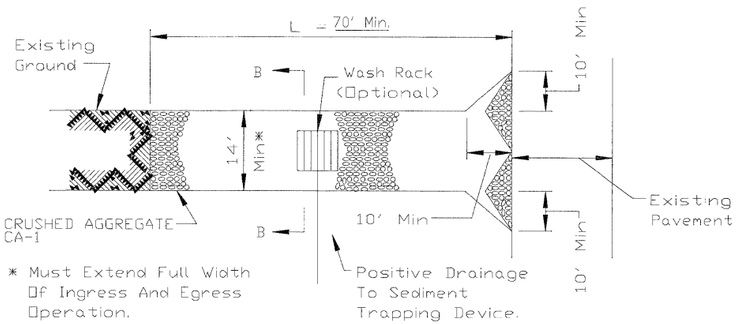
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	28
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



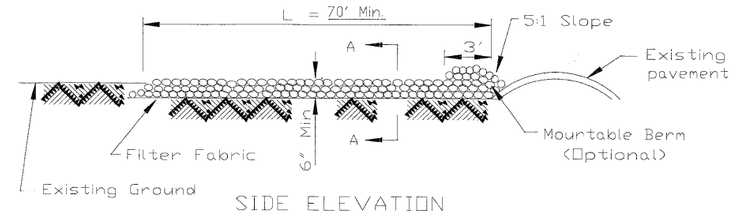
SHOULDER TRANSITION INTO APPROACH PAVEMENT DETAIL

PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW



SIDE ELEVATION

NOTES:

1. Filter fabric shall meet the requirements of material specification Section 210. FABRIC FOR GROUND STABILIZATION, and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1 or CA-2.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-630
Designed	Date		DATE 8-18-94
Checked	Date		
Approved	Date		

DET-1

JACOBS

FILE NAME = P:\..2022\220019.204\Cadd\Sheet Files\Part 1\C..DETAIL_1.SHT		DESIGNED - TAI	REVISED -
		DRAWN - KEB	REVISED -
	PLOT SCALE = 1' = 50'	CHECKED - PJM	REVISED -
	PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -

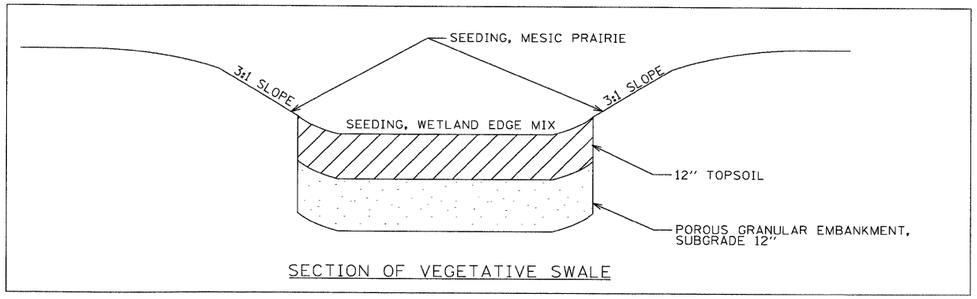
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

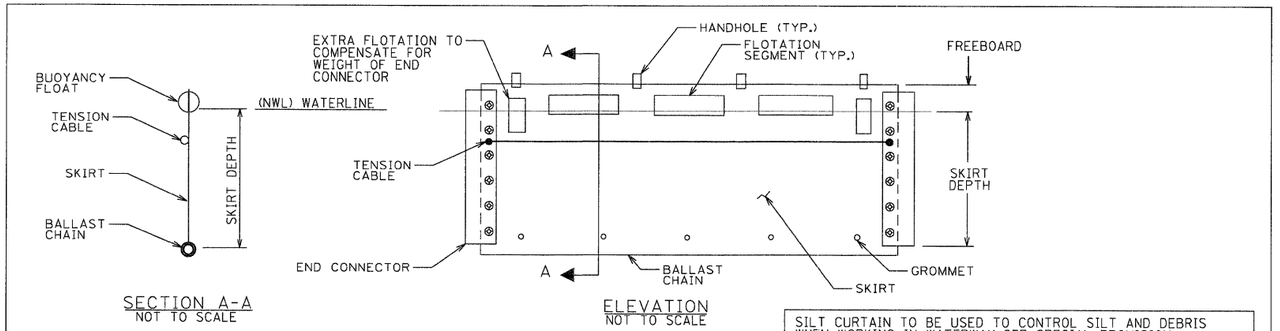
CIVIL DETAILS

SCALE: 1" = 50' | SHEET NO. 29 OF SHEETS | STA. | TO STA.

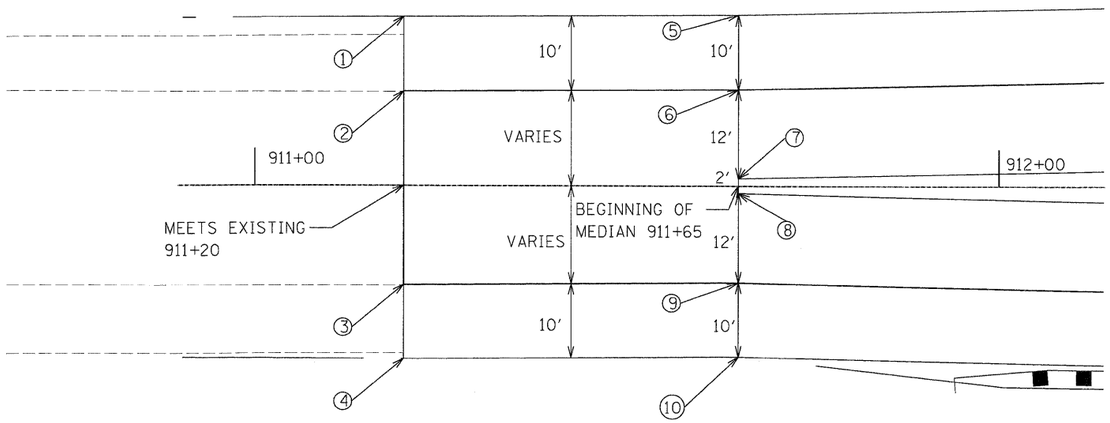
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	29
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SECTION OF VEGETATIVE SWALE



SEDIMENT CONTROL, SILT CURTAIN DETAIL



PAVEMENT AND MEDIAN DETAIL

POINT	STATION	OFFSET
1	911+20	22.7 LT
2	911+20	12.7 LT
3	911+20	13.3 RT
4	911+20	23.3 RT
5	911+65	23.5 LT
6	911+65	13.0 LT
7	911+65	1.0 LT
8	911+65	1.0 RT
9	911+65	13.0 RT
10	911+65	24.0 RT

JACOBS

FILE NAME = P:_2002\020019.024\Cadd\Sheet Files\Part 1\C_DETAIL_2.SHT	DESIGNED - TAI	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1" = 50'	CHECKED - PJM	REVISED -	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED -	

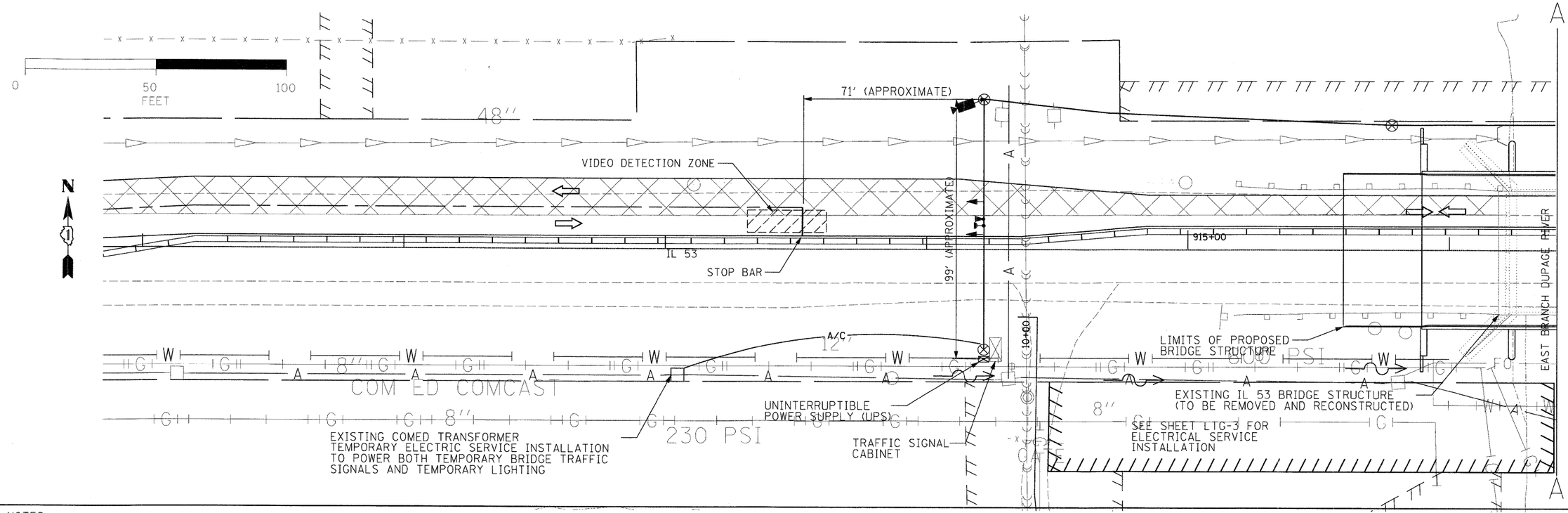
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

CIVIL DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	30
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

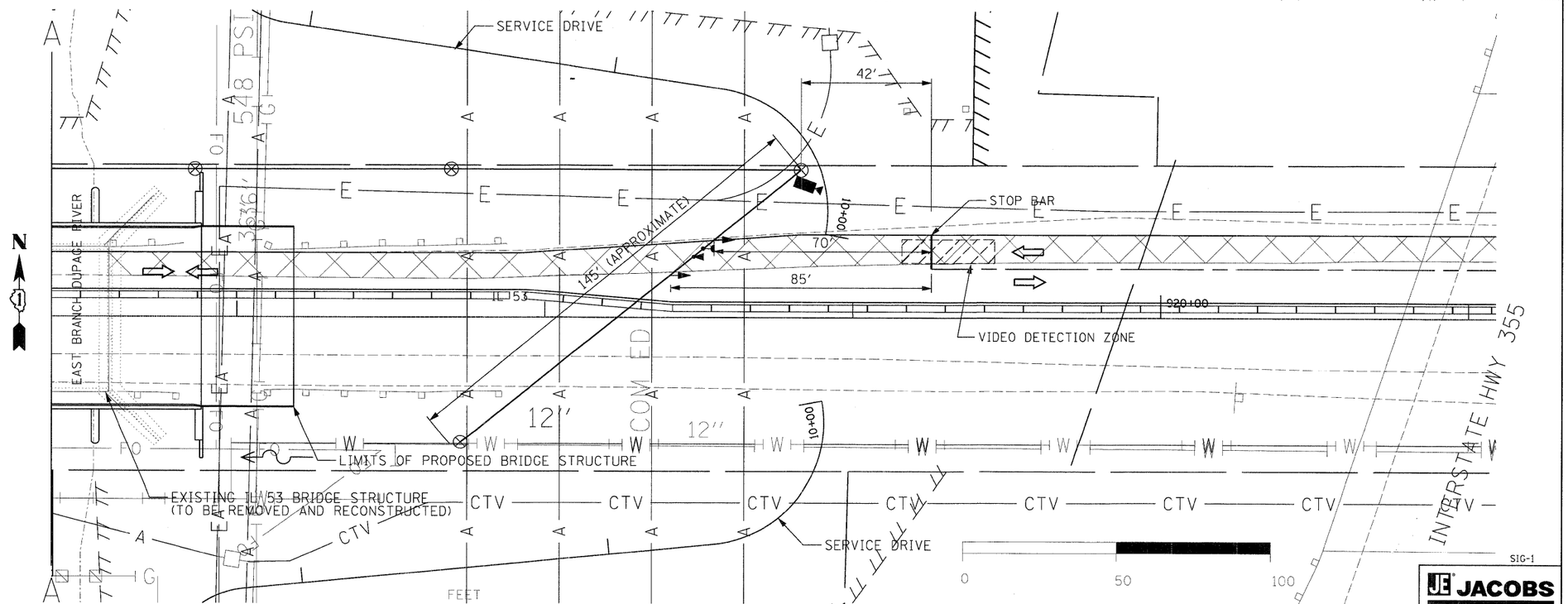


NOTES:

1. TEMPORARY WOOD POLES TO BE PAID FOR SEPARATELY. TEMPORARY WOOD POLES DIMENSIONED ON SHEET LTG-2.

TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER)
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTION ZONE
- CT COMMON TRENCH
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- HANDHOLE
- H HEAVY DUTY HANDHOLE
- VIDEO DETECTION CAMERA
- SIGN PANEL TO BE MOUNTED TO SPAN WIRE



SIG-1

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		DRAWN - CRH	REVISED -
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	PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TEMPORARY TRAFFIC SIGNAL PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	31
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY SIGNALS SHALL BE FULLY ACTUATED NEMA MICRO-PROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS SHALL BE 12" L.E.D. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL LABOR AND MATERIAL REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL TO THE BID PRICE OF TEMPORARY SIGNAL INSTALLATION.

5. THE TEMPORARY TRAFFIC SIGNAL WILL BE IN OPERATION DURING STAGE 1.

6. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED WHEN NOT IN USE. ONLY IF TWO-WAY TRAFFIC OPERATION IS PERMITTED.

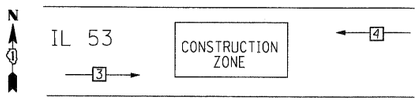
7. PROVIDE MINIMUM OF 18 FOOT CLEARANCE FOR THE BOTTOM OF THE SIGNAL HEAD OVER THE ROADWAY.

8. TEMPORARY ELECTRICAL SERVICE INSTALLATION TO POWER BOTH TEMPORARY BRIDGE TRAFFIC SIGNALS AND TEMPORARY LIGHTING.

9. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE TRAFFIC SIGNALS TIMING WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

TEMPORARY CONTROLLER SEQUENCE

TO BE USED AT ALL TIME DURING ONE LANE OPERATION



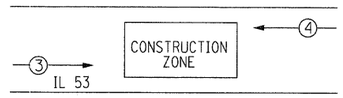
LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- SINGLE ENTRY PHASE
- • NUMBER REFERS TO ASSOCIATED PHASE

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	4	135	17	0.50	34.00
(YELLOW)	4	135	25	0.25	25.00
(GREEN)	4	135	15	0.25	15.00
ARROW	0	135	12	0.10	-
PED. SIGNAL	0	90	25	1.00	-----
CONTROLLER	1	100	100	1.00	100.00
EMER.VEH.PREEMP	2	50		0.05	5.0
VIDEO DETECTION	2	20		1.00	40.0
FLASHER	--			0.50	----
ENERGY COSTS TO: CONTRACTOR - TBD				TOTAL =	219.00

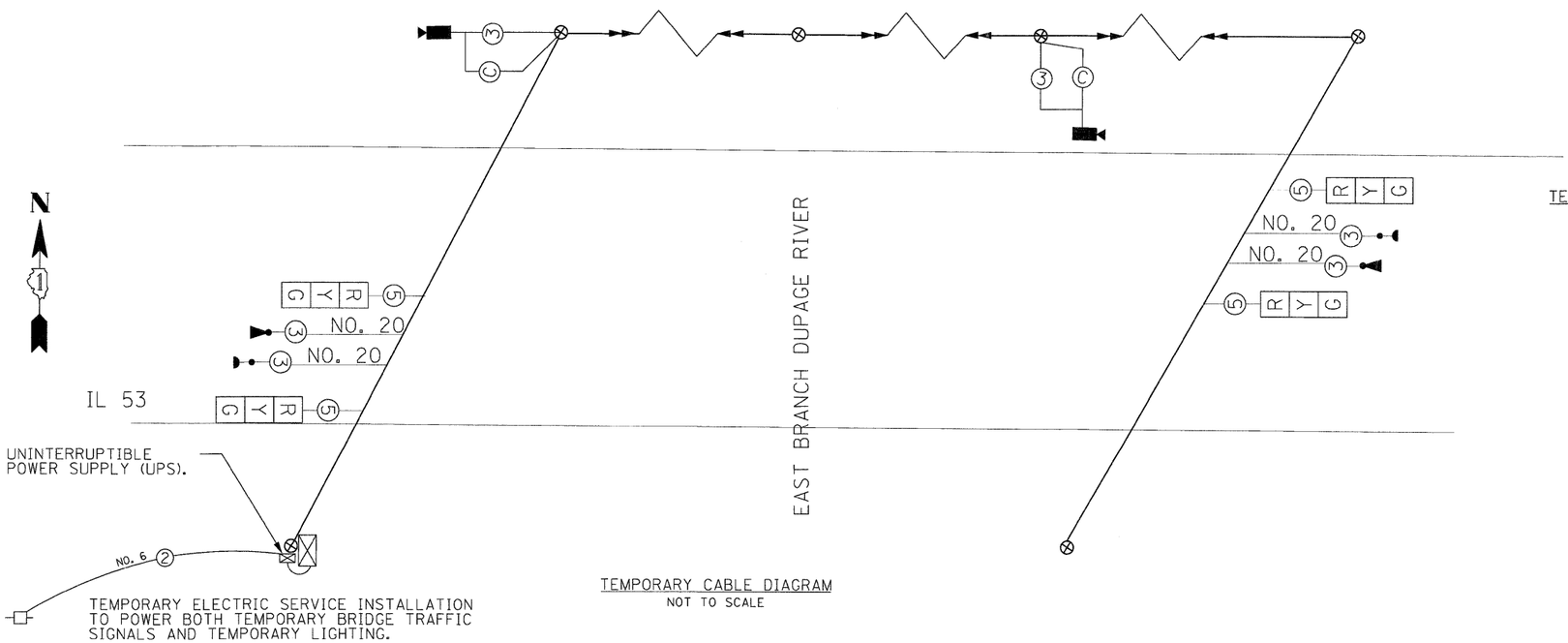
ENERGY SUPPLY CONTACT: DEBRA RANKIN
PHONE: (630) 691-4379
COMPANY: COM. ED.

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



N

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



TEMPORARY CABLE DIAGRAM
NOT TO SCALE

TEMPORARY CABLE DIAGRAM LEGEND

- CABLE ROUTED AERIALLY
- [R] TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- (5) INDICATES NUMBER OF CONDUCTORS IN CABLE, ALL CONDUCTORS TO BE NUMBER 14 A.W.G. UNLESS OTHERWISE NOTED
- TEMPORARY EMERGENCY VEHICLE LIGHT DETECTOR
- TEMPORARY CONFIRMATION BEACON
- TEMPORARY VEHICLE DETECTION ZONE
- TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- TEMPORARY 12" (300mm) PEDESTRIAN SIGNAL SECTION
- TEMPORARY VIDEO DETECTION CAMERA

SIG-2

JACOBS

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		DRAWN - CJH	REVISED -
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	PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED -

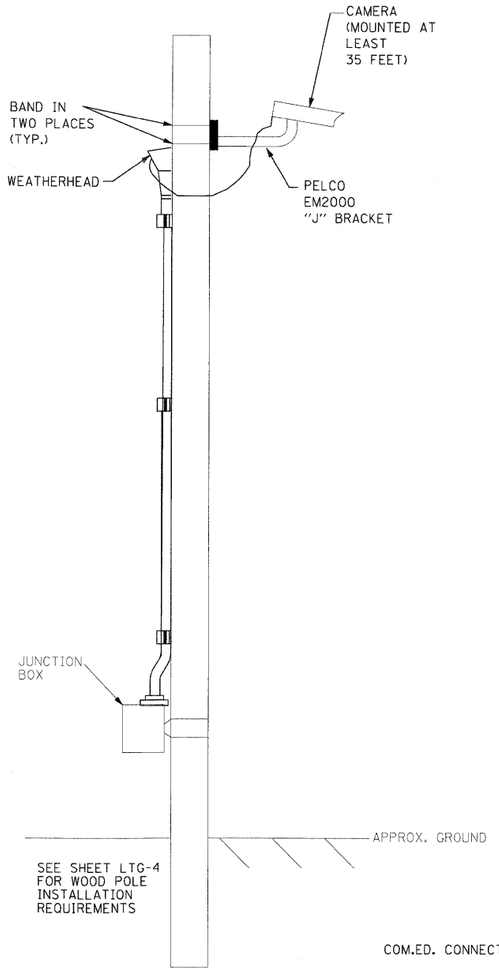
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TEMPORARY TRAFFIC SIGNAL PLAN WIRING

SCALE: N.T.S | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	32
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

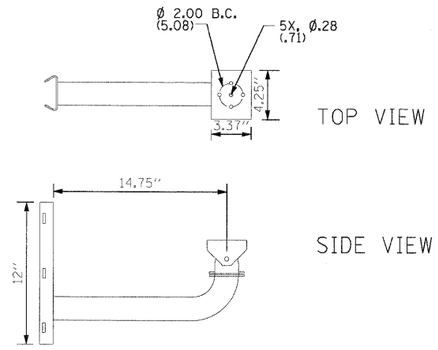


CAMERA MOUNTED TO WOOD POLE

NOT TO SCALE

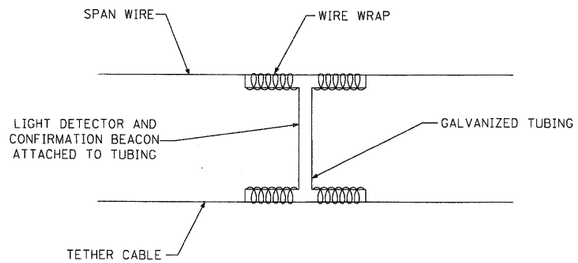
NOTES:

1. SEE SHEET LTG-4 FOR POLE DETAILS



EM2000 DIMENSION DRAWING

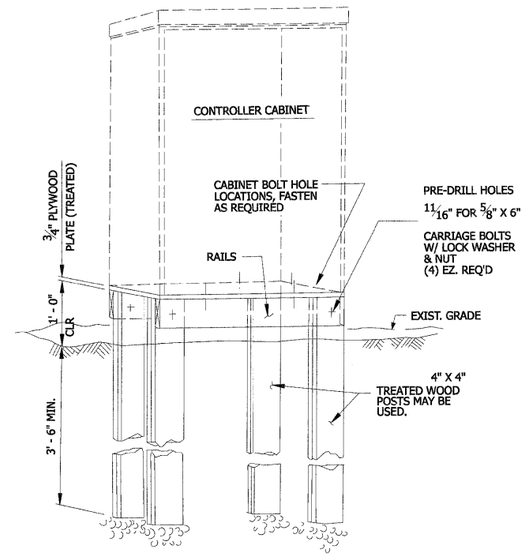
NOT TO SCALE



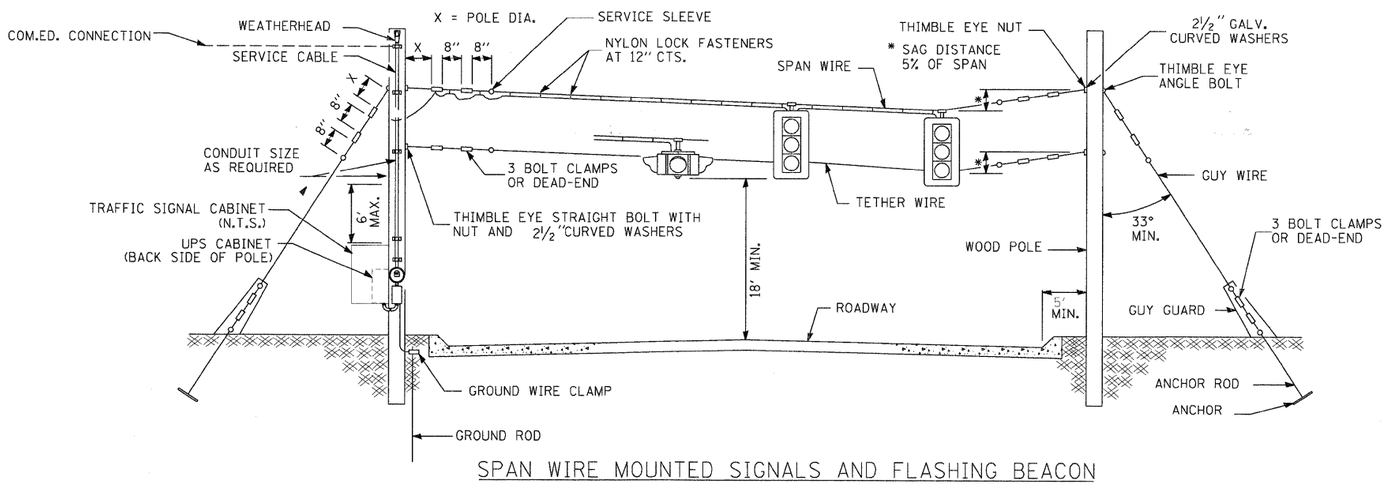
LIGHT DETECTOR AND CONFIRMATION BEACON
MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

CONTROLLER CABINET TYPE 8 DIMENSIONS VARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT CABINET DIMENSIONS PRIOR TO THE CONSTRUCTION OF THE CABINET MOUNTING PLATFORM SHOWN BELOW.

CABINET PLATFORM LEGS & RAILS SHALL BE CONSTRUCTED OF 2" X 6" TREATED WOOD TO RESIST WEATHERING.



TEMPORARY CONTROLLER PLATFORM



SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON

NOT TO SCALE

SIG-3

JACOBS

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	DRAWN - CRH	REVISED -	
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PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TEMPORARY TRAFFIC SIGNAL PLAN STANDARD DETAIL

SCALE: N.T.S. | SHEET NO. 33 OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	33
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

ELECTRICAL GENERAL NOTES

1- THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRICAL SERVICE WORK.

2- TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE LIGHT POLES WILL NOT BE PAID FOR UNTIL THE POLES ARE FULLY APPROVED AND THE LUMINAIRES ARE INSTALLED.

3- THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE A SOLID, SOFT DRAWN VC NO.2 BARE COPPER CONDUCTOR INSTALLED ACCORDING TO THE NEC REQUIREMENTS FOR BONDING OF COPPER GROUND RODS, DISCONNECT SWITCHES, TRAFFIC SIGNAL CONTROLLER, LUMINAIRES, AND BARE MESSENGER CABLE.

4- SPECIAL CARE SHALL BE TAKEN DURING AUGER OPERATIONS IN EARTH TO NOT DAMAGE PROPOSED FIBER OPTIC CABLES AND ANY UTILITIES AND/OR TREES ALONG IL 53 WITHIN THE PROJECT LIMITS.

5- ALL TEMPORARY LIGHTING UNITS SHALL BE INSTALLED ON WOOD POLES.

6- UNLESS OTHERWISE INDICATED THE PROPOSED TEMPORARY LIGHT POLES SHALL BE SET BACK FROM CENTERLINE OF STREET 30 FEET.

7- TEMPORARY WOOD POLES SHALL BE ERECTED TO MAINTAIN PROPOSED LUMINAIRE HEIGHT ABOVE ROADWAY PER PLANS.

8- A GROUND ROD SHALL BE INSTALLED EVERY THIRD POLE FOR TEMPORARY LIGHTING.

LIGHTING INDEX OF SHEETS

ELECTRICAL SYMBOLS FOR PROPOSED WORK

SYMBOL	DESCRIPTION
T XA1 STA. 230+10 60' M.H. 20' M.A. 400W	TEMPORARY LIGHTING UNIT; POLE MOUNTED, SINGLE ARM AND LUMINAIRE. POLE SHALL BE 60' HEIGHT UNLESS NOTES OTHERWISE: CIRCUIT NUMBER STATION NUMBER AS INDICATED (TYP.) MOUNTING HEIGHT MAST ARM LENGTH LUMINAIRE WATTAGE
A/C	AERIAL ELECTRIC CABLE, 3-1/C #4 WITH MESSENGER WIRE
⏚	GROUND ROD
⊗	TEMPORARY WOOD POLE
⟛	POLE GUYING
—— A ——	COMED AERIAL POWER LINE
—— E ——	EXISTING COMED UNDERGROUND POWER LINE

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	PLOT DATE = 11/20/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TEMPORARY LIGHTING - GENERAL NOTES, INDEX & SYMBOLS

SCALE: N.T.S | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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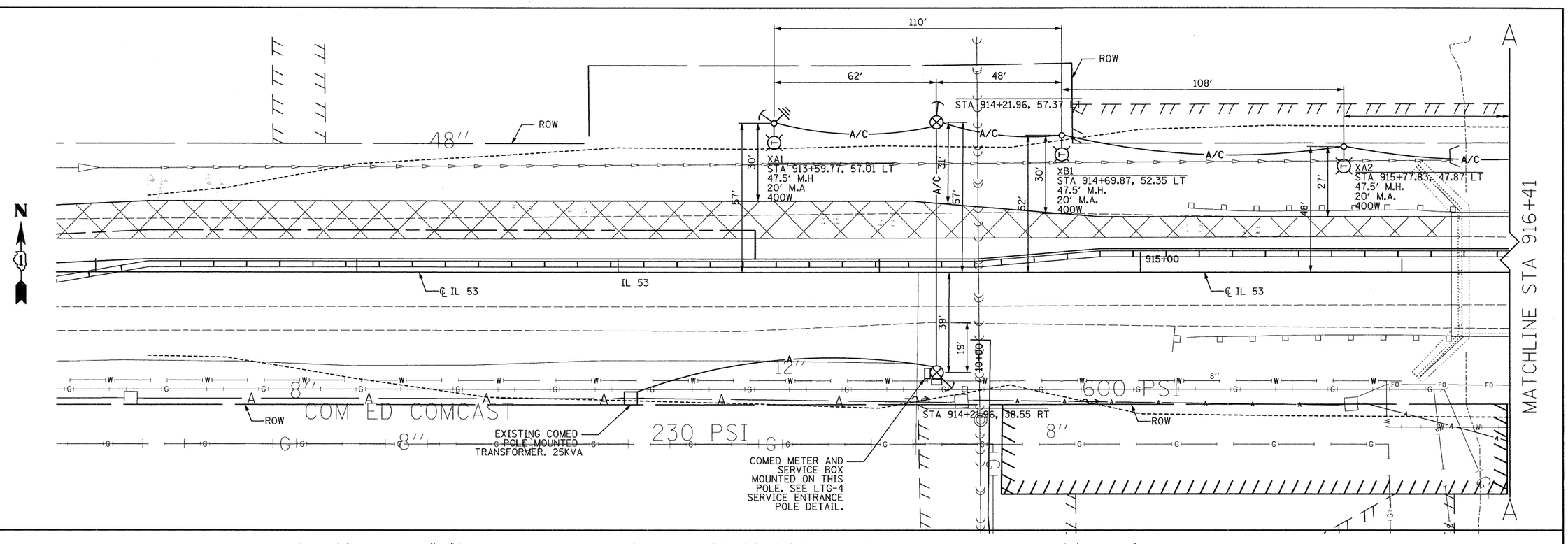
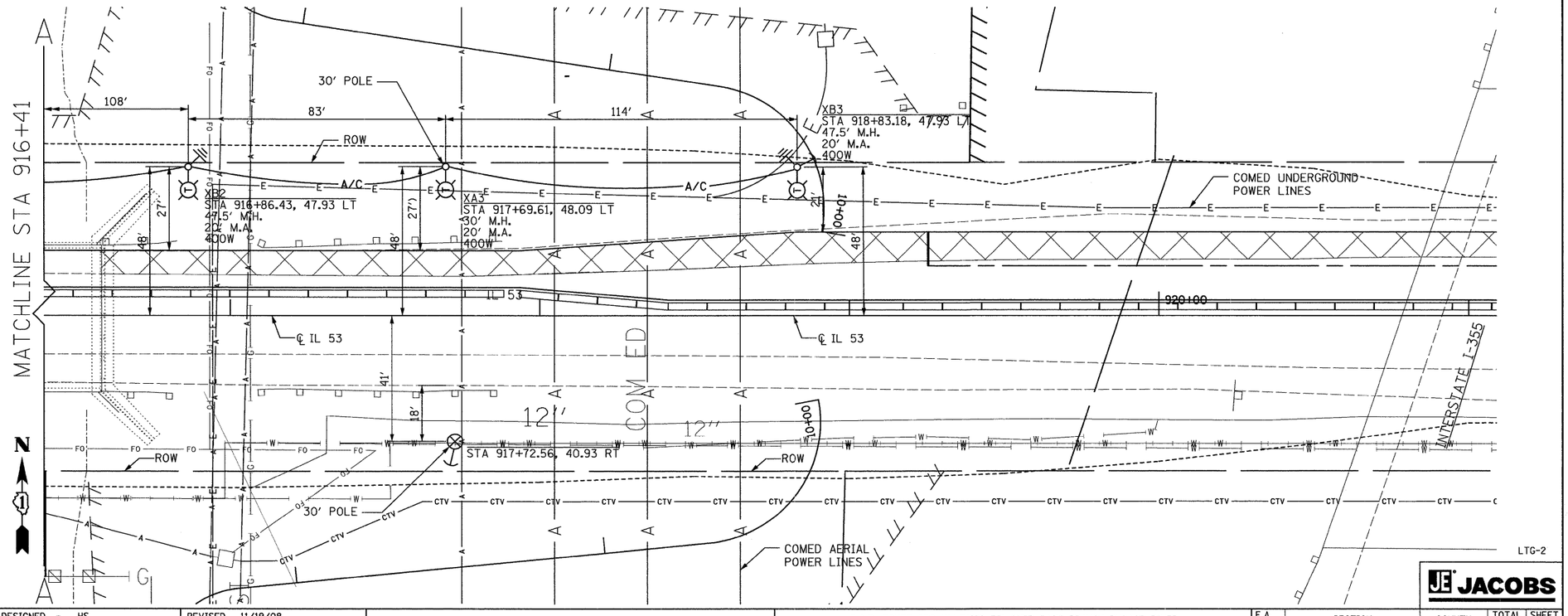
		CONTRACT NO. 60B95		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT



TEMPORARY LIGHTING NOTES

1. TEMPORARY LUMINAIRE. 400 WATT HPS, 120 VOLT, HORIZONTAL MOUNT, TYPE III, MEDIUM, FULL-CUTOFF WITH PHOTOCELL.
2. TEMPORARY LIGHTING TO BE REMOVED AS DIRECTED BY IDOT WHEN ROADWAY CONSTRUCTION IS COMPLETE.
3. ALL SYSTEMS ARE TO REQUIRED TO REMAIN OPERATIONAL DURING STAGED CONSTRUCTION.
4. NOT USED.
5. NOT USED.
6. GROUND EVERY THIRD POLE WITH TEMPORARY LUMINAIRE UNLESS NOTED OTHERWISE ON PLAN.
7. TEMPORARY POLES SHALL BE 60 FEET ABOVE GRADE UNLESS OTHERWISE NOTED.



LTG-2

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	PLOT DATE = 11/21/2008	DATE - 10/15/08	REVISED -

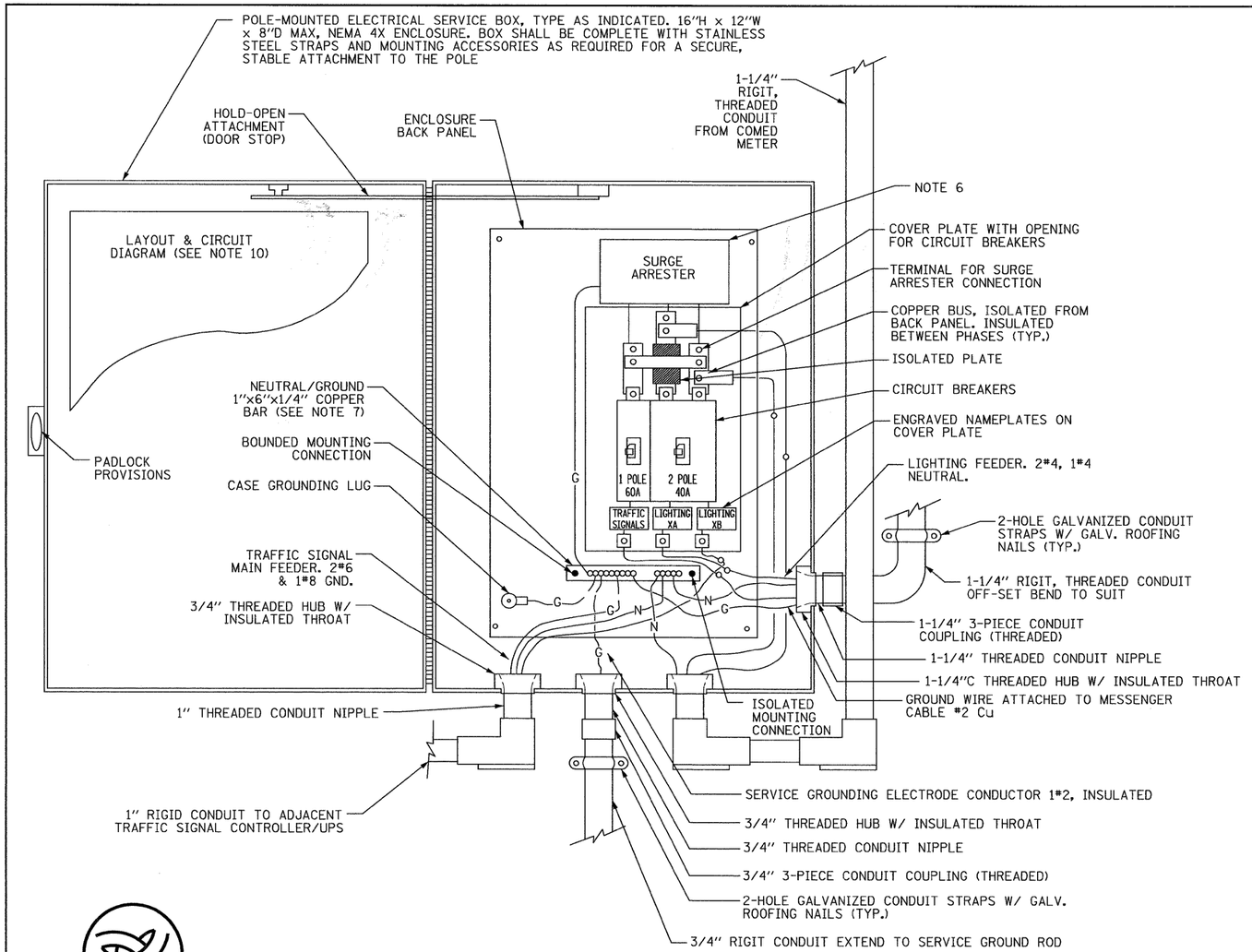
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TEMPORARY LIGHTING – PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	35
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



COST OF TEMPORARY POLE CAP MODIFICATION AND CONNECTION HARDWARE SHALL BE INCIDENTAL TO AERIAL CABLE PAY ITEM.

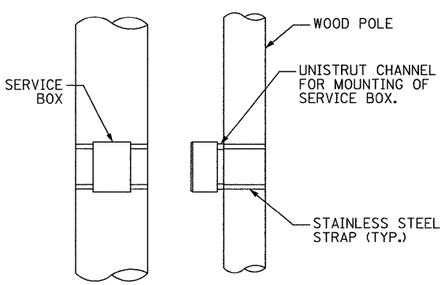
NOTES

1. ELECTRICAL SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
2. THE POLE-MOUNTED ELECTRICAL SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS.
3. THE ELECTRICAL SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
4. THE ELECTRICAL SERVICE EQUIPMENT SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W x 16"H x 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANLE, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP. HOFFMAN CATALOG NO. A-16HI2O8SSGLP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 120 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICROSECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.
7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTRNING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN, THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
9. THE WIRING TERMINALS, INCLUDNG THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
11. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
12. LUGS AND CONNECTORS SHALL BE RATED FOR 75 DEGREE C CONDUCTOR.
13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS.

6" DECAL ON FRONT COVER

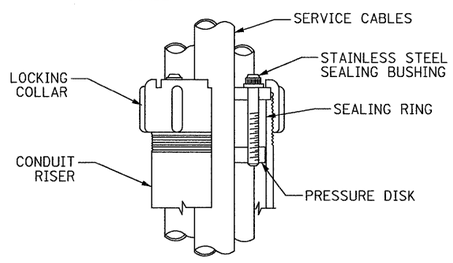
POLE-MOUNTED ELECTRICAL SERVICE ENTRANCE GENERAL LAYOUT DIAGRAM

NOT TO SCALE



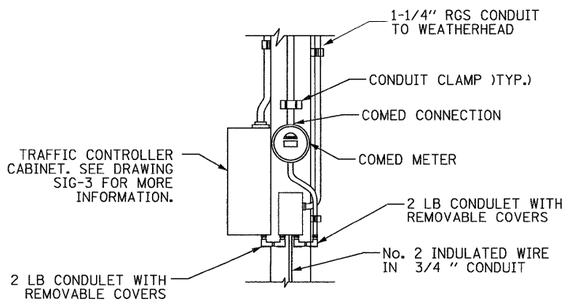
SERVICE BOX MOUNTING DETAIL

NOT TO SCALE



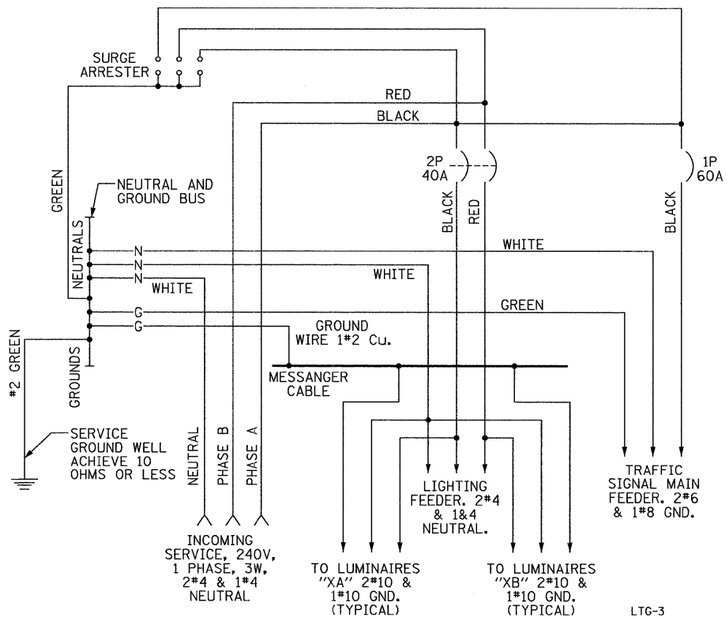
SEALING BUSHING DETAIL

NOT TO SCALE



SERVICE ENTRANCE DETAIL

NOT TO SCALE



SCHEMATIC DIAGRAM

NOT TO SCALE

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	PLOT DATE = 11/20/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TEMPORARY LIGHTING - DETAILS

SCALE: N.T.S | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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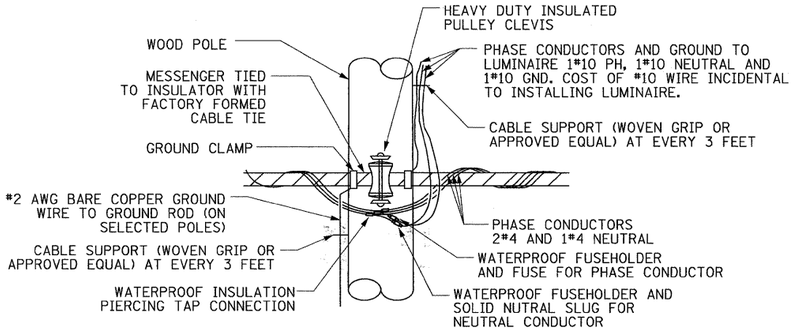
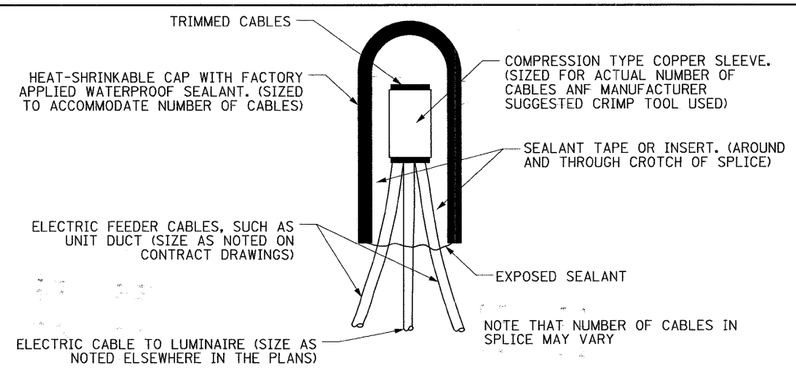
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



TEMPORARY LIGHT POLE CABLE ATTACHMENT DETAILS

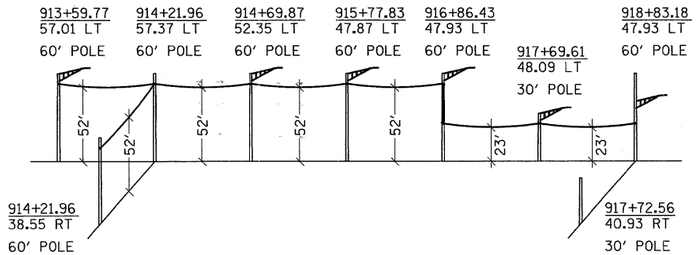
NOT TO SCALE



TYPICAL SPLICE DETAIL

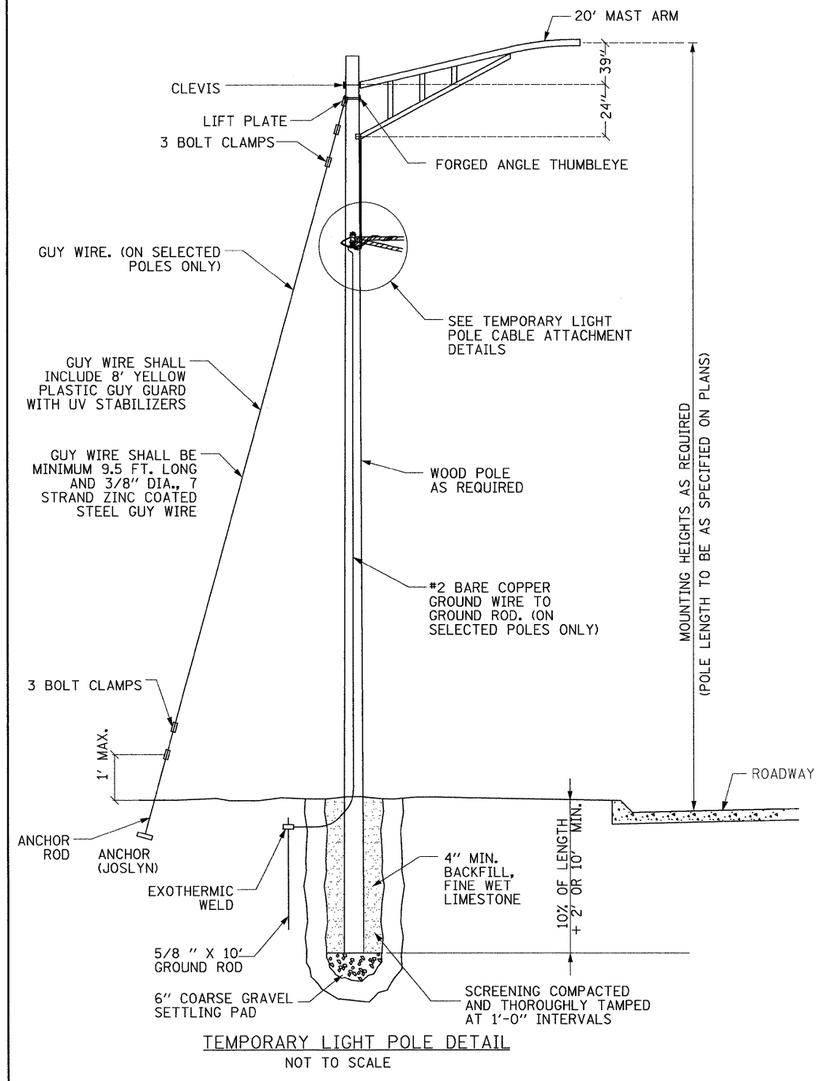
NOT TO SCALE

COST OF TEMPORARY POLE CAP MODIFICATION AND CONNECTION HARDWARE SHALL BE INCIDENTAL TO AERIAL CABLE PAY ITEM.



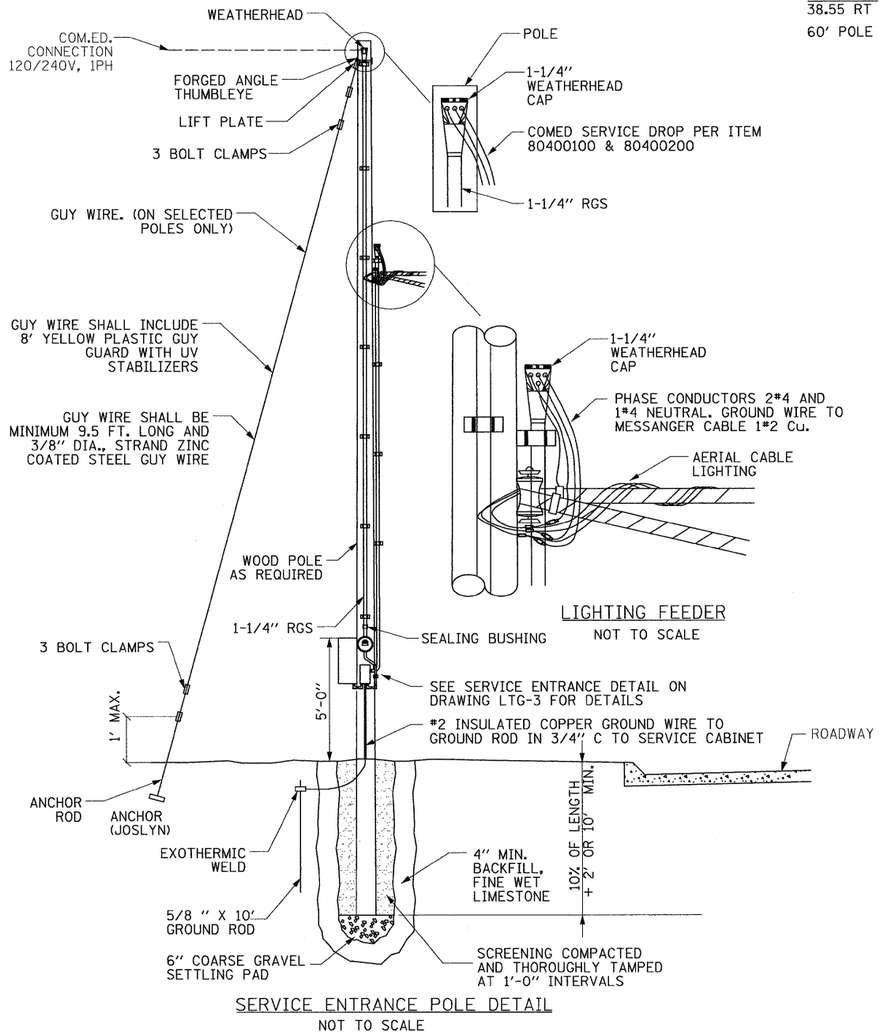
WIRING ELEVATION

NOT TO SCALE



TEMPORARY LIGHT POLE DETAIL

NOT TO SCALE

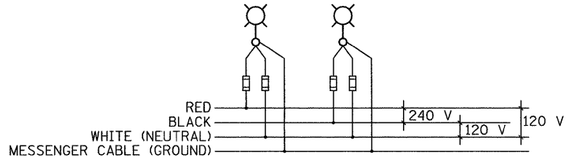


SERVICE ENTRANCE POLE DETAIL

NOT TO SCALE

LIGHTING FEEDER

NOT TO SCALE



TYPICAL POLE TO POLE

SINGLE LINE WIRING DIAGRAM

NOT TO SCALE

LTG-4

JACOBS

FILE NAME =		DESIGNED - HS	REVISED 11/19/08
P:_2002\020019.024\Cadd\Sheet Files\Part 1\37_LIT E04.sht		DRAWN - HS	REVISED -
	PLOT SCALE = N.T.S	CHECKED - CS	REVISED -
	PLOT DATE = 11/21/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TEMPORARY LIGHTING - DETAILS

SCALE: N.T.S | SHEET NO. OF SHEETS | STA. TO STA.

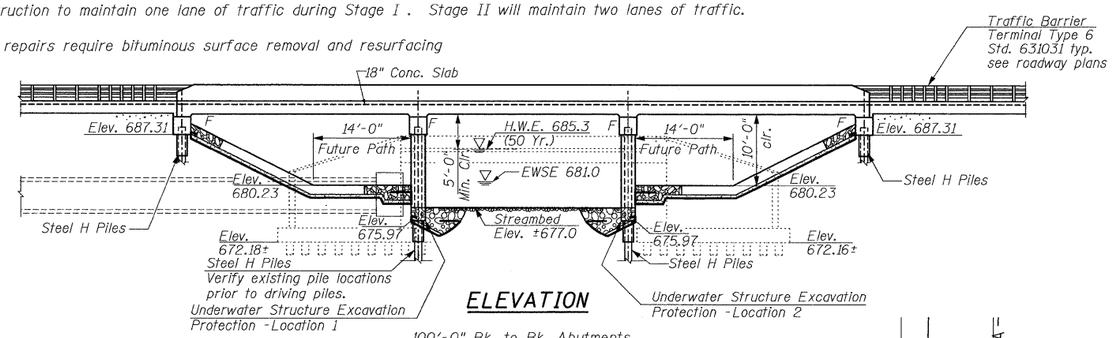
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	37
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

Benchmark: Mag Nail set in N. shoulder of W. bridge approach left of Sta. 916+18.20, Elev. 687.24

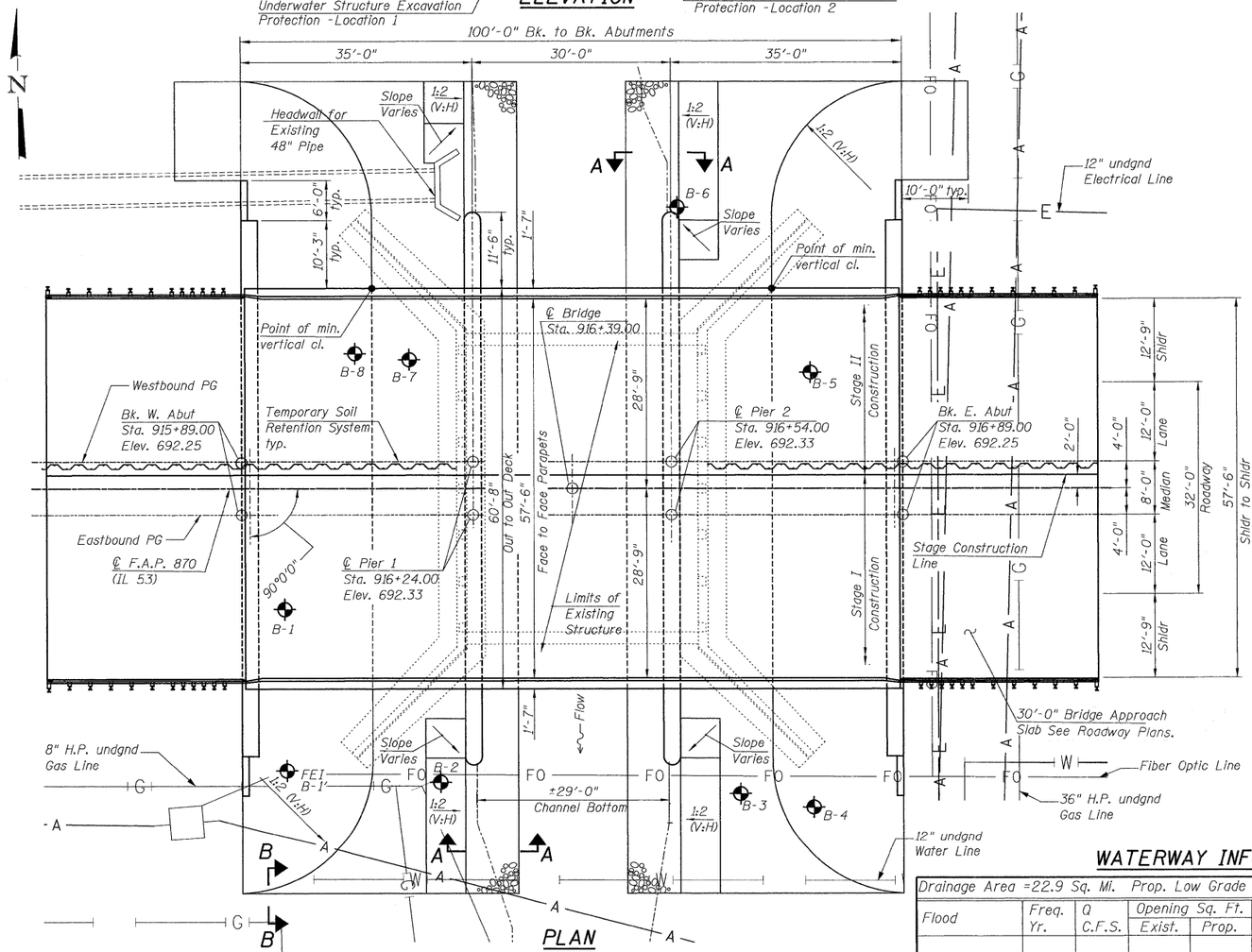
Existing Structure: SN 022-0077 was built in 1934 as S.B.I. Rte. 53, Section 533-X. Structure consists of a single span reinforced concrete T-beam superstructure with closed abutments on timber piles. The bridge is 38'-0" back-to-back abutments and 47'-0" out-to-out deck. Structure is to be removed and replaced using staged construction to maintain one lane of traffic during Stage I. Stage II will maintain two lanes of traffic.

Pre Stage I repairs require bituminous surface removal and resurfacing

No salvage.



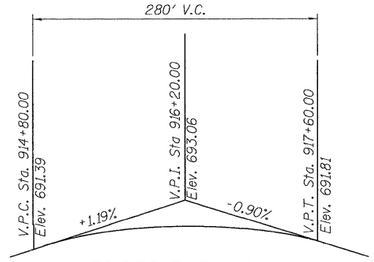
ELEVATION



PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	687.31	672.76	672.76	687.31



PROFILE GRADE

(4' Offset from ℄ Roadway)

STATION 916+39
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RT. 870 SEC. 533-X-B-R-1
LOADING HL-93
STR. NO. 022-0181

NAME PLATE

See Std. 515001

INDEX OF SHEETS

LOADING HL-93

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

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

FIELD UNITS

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 3.8%g
Site Coefficient (S) = 1.0

WATERWAY INFORMATION

Drainage Area =22.9 Sq. Mi. Prop. Low Grade Elevation: 688.4 ft. @ Sta. 922+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1200	199	325	684.4	0.5	0.1	684.9	684.5
Design	50	1710	199	390	685.3	0.7	0.1	686.0	685.4
Base	100	1940	199	420	685.7	0.8	0.1	686.5	685.8
Max. Calc.	500	2470	199	474	686.4	1.0	0.1	687.4	686.5

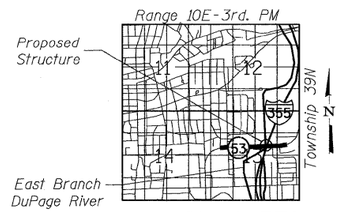
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

LICENSED STRUCTURAL ENGINEER — JAMES S. SZCZUPAK — 081-005608 — CHICAGO, ILLINOIS — STATE OF ILLINOIS

SIGNED 11-24-2008

EXPIRES: 11-30-2008



LOCATION SKETCH

STR-1 OF 26

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

GENERAL PLAN AND ELEVATION

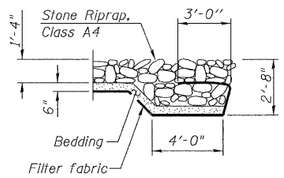
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	38
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

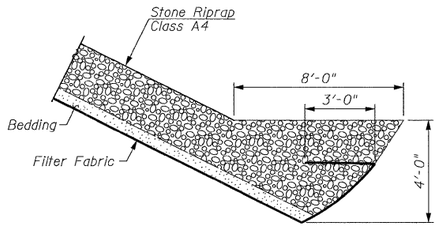
FILE NAME = P:_2082\822081\2041\Cadd\Structural\SN022-0181_Final\Sheet\822081-60B95-001-GPE.dgn

GENERAL NOTES

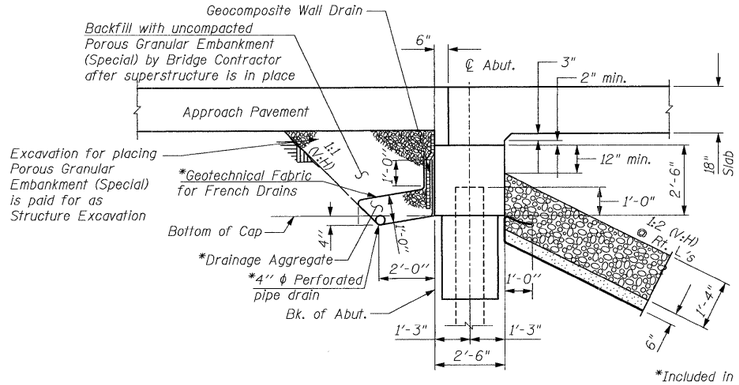
1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
4. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
5. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach pavement.
6. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
7. See sheet GEN-1, General Notes 26-28 prior to commencing work near existing utilities.



SECTION B-B



SECTION A-A



SECTION THRU ABUTMENT

*Included in the cost of Pipe Underdrains for Structures.

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	-	63	63
Stone Riprap, Class A4	Sq. Yd.	-	1194	1194
Filter Fabric	Sq. Yd.	-	1283	1283
Removal of Existing Structures	Each	1	-	1
Structure Excavation	Cu. Yd.	-	66	66
Concrete Structures	Cu. Yd.	-	224.4	224.4
Concrete Superstructure	Cu. Yd.	355.7	-	355.7
Bridge Deck Grooving	Sq. Yd.	611	-	611
Concrete Encasement	Cu. Yd.	-	22.4	22.4
Protective Coat	Sq. Yd.	717	-	717
Reinforcement Bars, Epoxy Coated	Pound	70,290	20,740	91,030
Bar Splicers	Each	178	80	258
Name Plates	Each	1	-	1
Geocomposite Wall Drain	Sq. Yd.	-	46	46
Pipe Underdrains for Structures 4"	Foot	-	211	211
Furnishing Steel Piles HP12x53	Foot	-	3,960	3,960
Driving Piles	Foot	-	3,960	3,960
Test Pile Steel HP12x53	Each	-	4	4
Pile Shoes	Each	-	64	64
Temporary Soil Retention System	Sq. Ft.	-	362	362
Underwater Structure Excavation Protection - Location 1	Each	-	1	1
Underwater Structure Excavation Protection - Location 2	Each	-	1	1

JACOBS

FILE NAME = P:_2002\020813.004\Cadd\Structural\SN022-2181 Final\Sheet\022018I-60B95-002-GEND.dgn

	DESIGNED - LJH	REVISED - 11/24/08	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

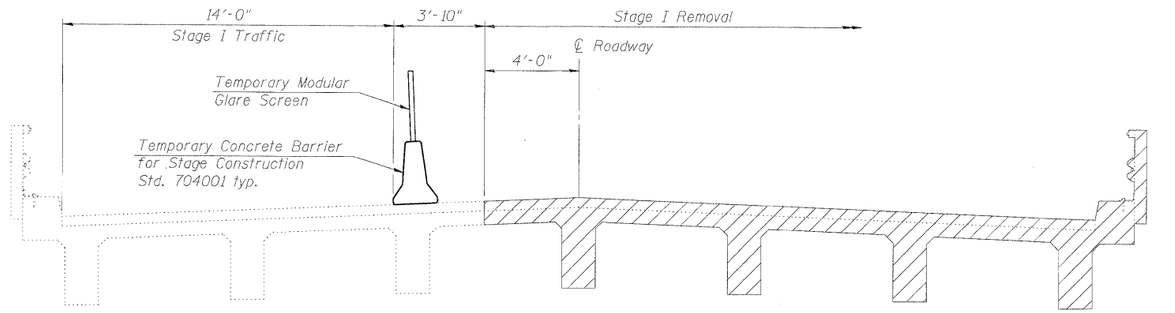
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

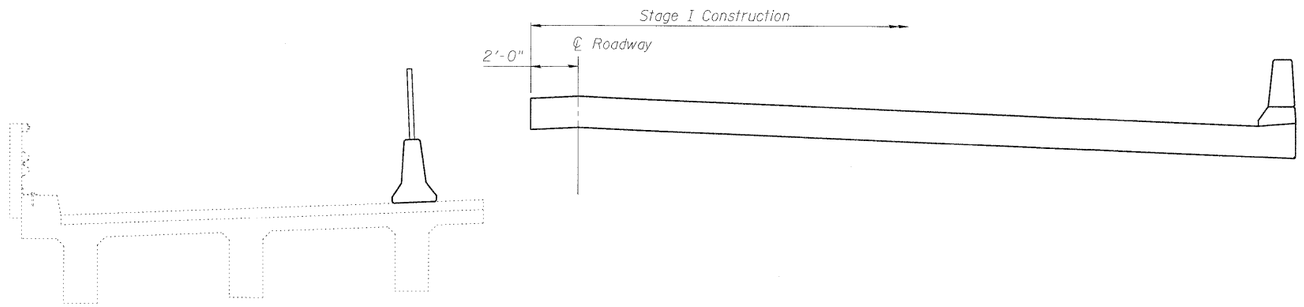
GENERAL DATA

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

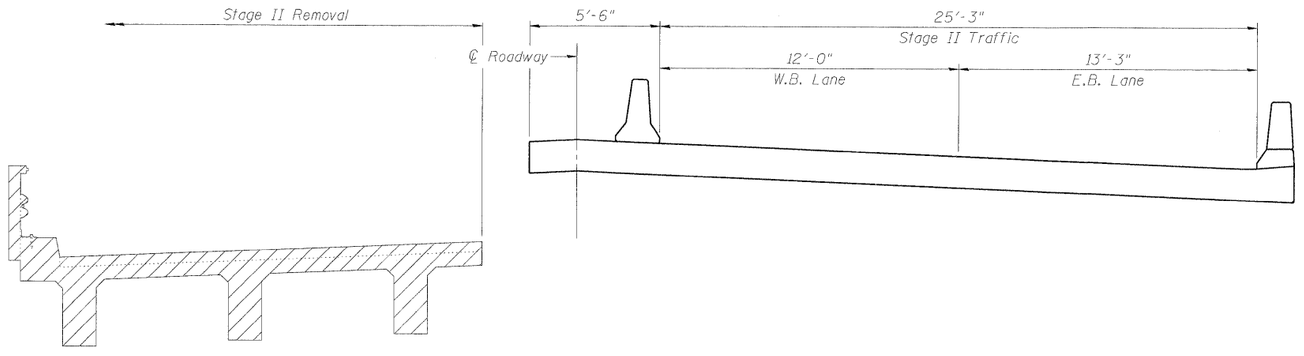
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	39
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



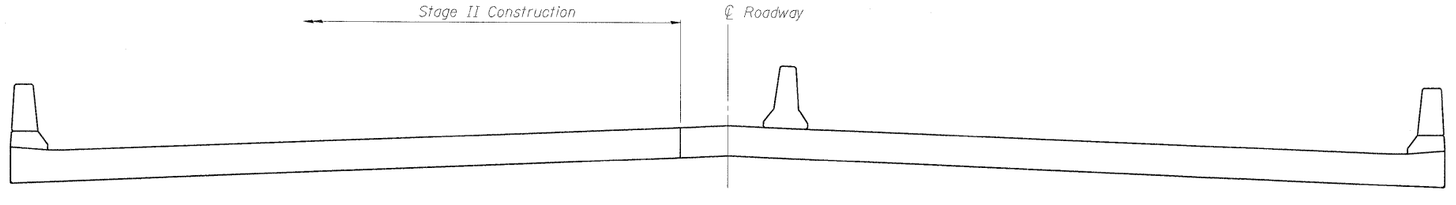
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

STAGE CONSTRUCTION NOTES

1. Hatched area indicates Removal of Existing Structures.
2. The cross sections are viewed looking east.
3. For quantity of Temporary Concrete Barrier and Temporary Modular Glare Screen, see Roadway plans.

STR-3 OF 26

JACOBS

	DESIGNED - LJH	REVISED -
	DRAWN - FJD	REVISED -
PLOT SCALE =	CHECKED - JSS	REVISED -
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

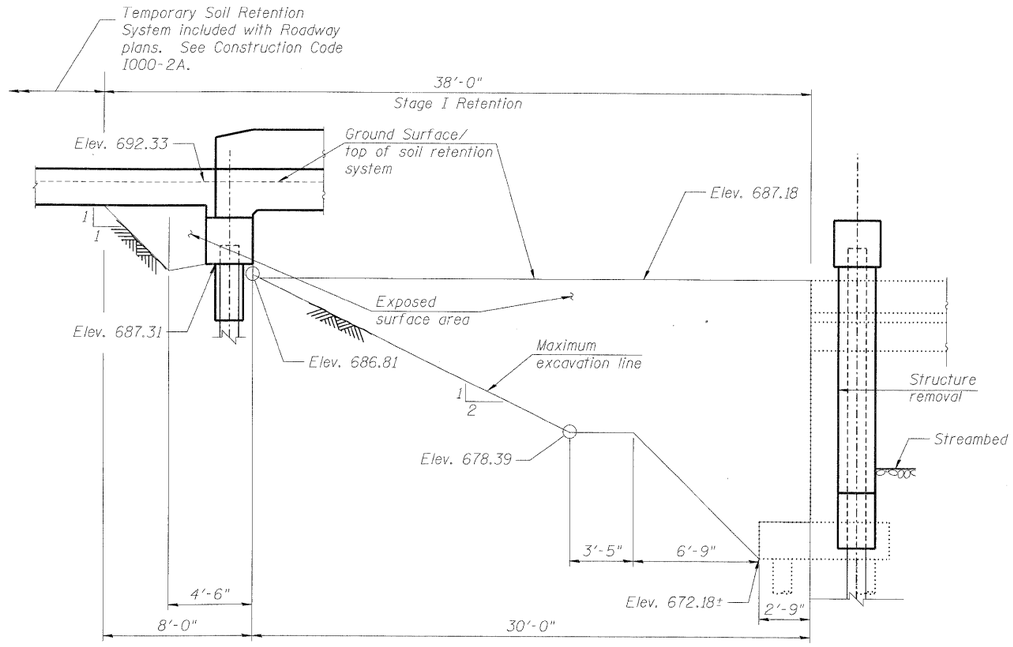
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

STAGE CONSTRUCTION DETAILS

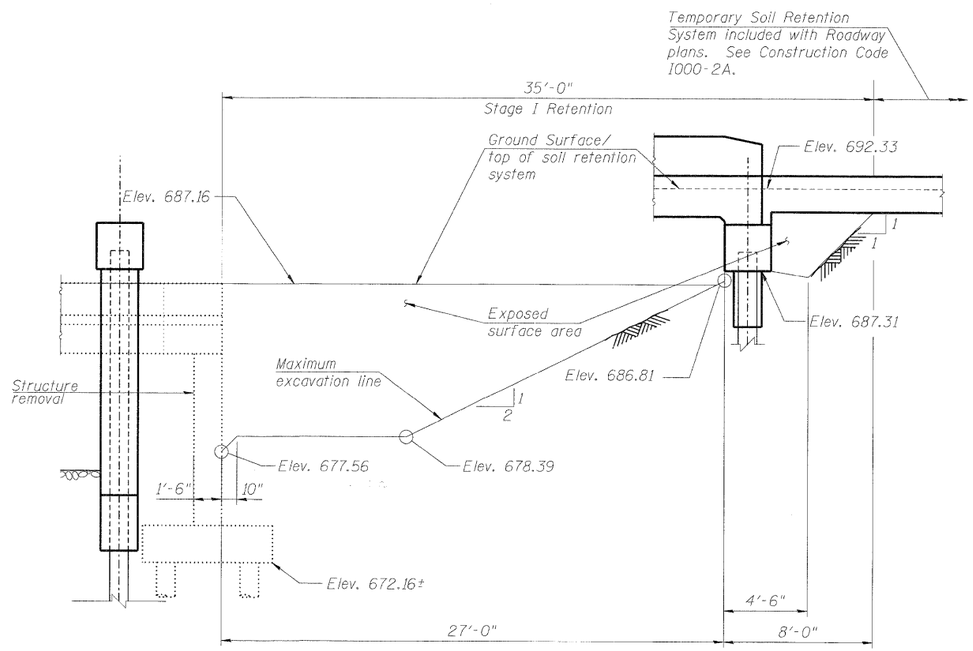
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DUPAGE	87	40
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:_2002\82001n.004\Cadd\Structural\S0822-0181 Final\Sheet\82201B1-60B95-023-STCCON_1.dgn



WEST ABUTMENT
TEMPORARY SOIL RETENTION SYSTEM



EAST ABUTMENT
TEMPORARY SOIL RETENTION SYSTEM

TEMPORARY SOIL RETENTION SYSTEM NOTES

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

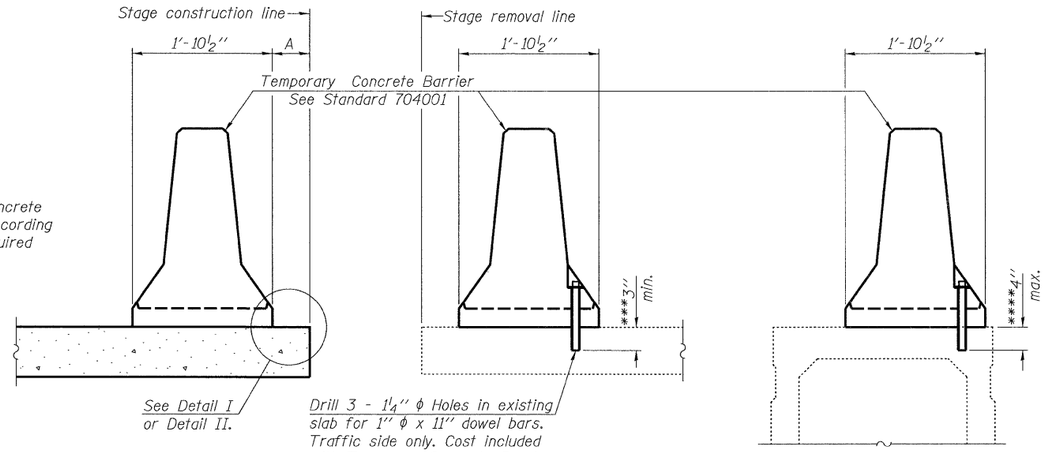
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

STAGE CONSTRUCTION DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DUPAGE	87	41
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℙ to the top layer of coupiers with 2-$\frac{5}{8}$" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel ℙ to the concrete slab or concrete wearing surface with 2-$\frac{5}{8}$"ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

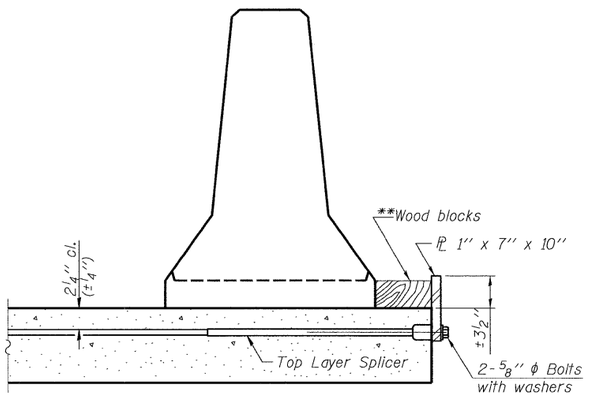
Cost of anchorage is included with Temporary Concrete Barrier.

The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

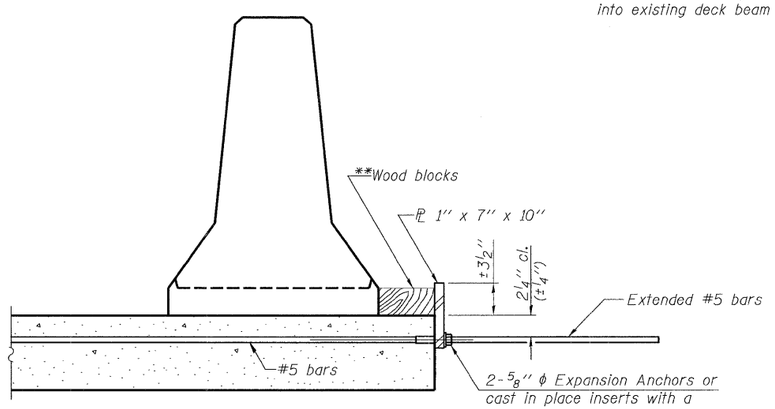
SECTIONS THRU SLAB OR DECK BEAM

***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

****If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.

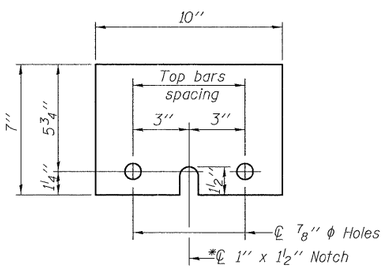


DETAIL I



DETAIL II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER ℙ 1" x 7" x 10"

* Required only with Detail II

STR-5 OF 26

JACOBS

	DESIGNED - LJH	REVISED - 11/24/08	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

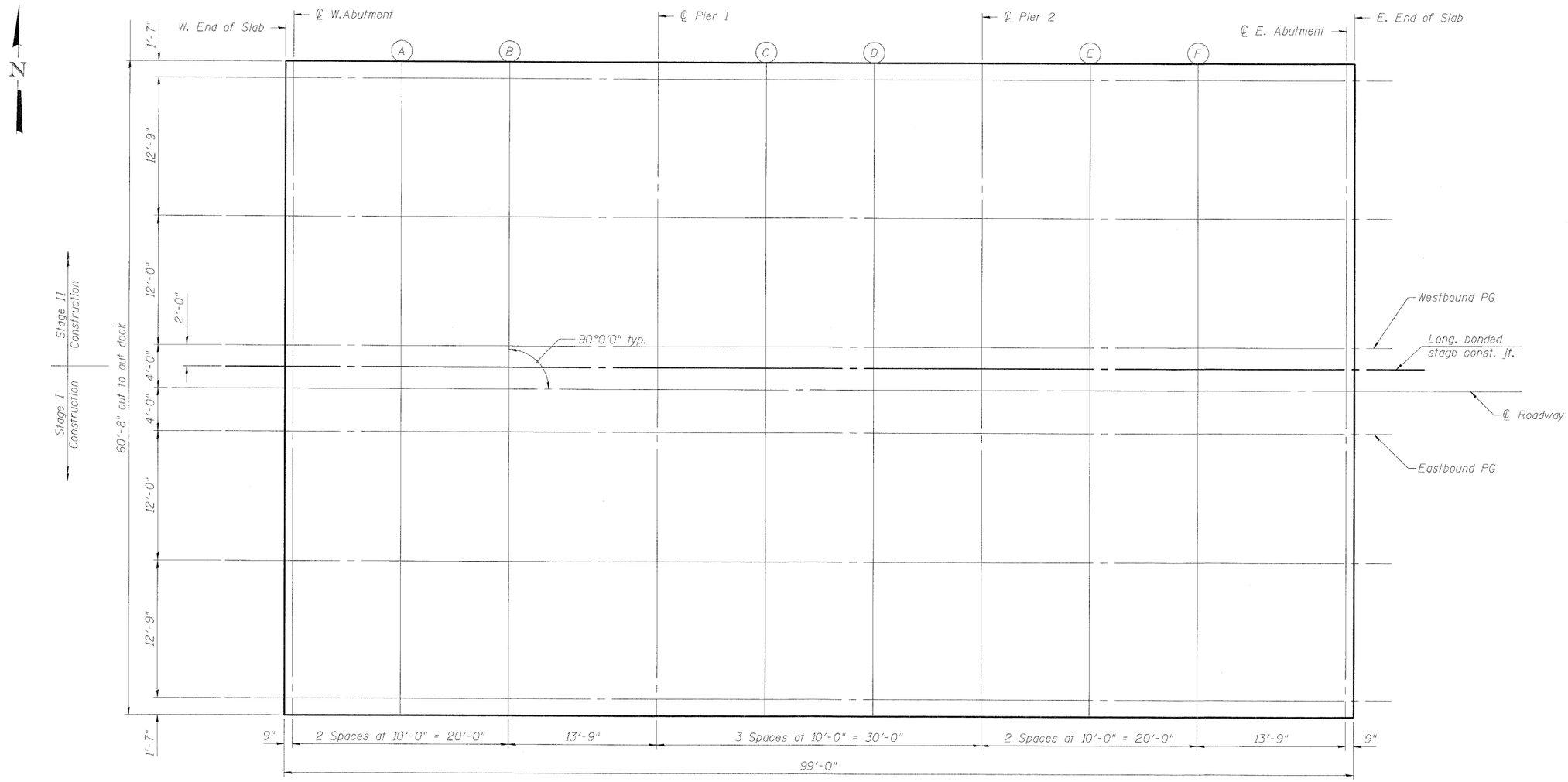
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

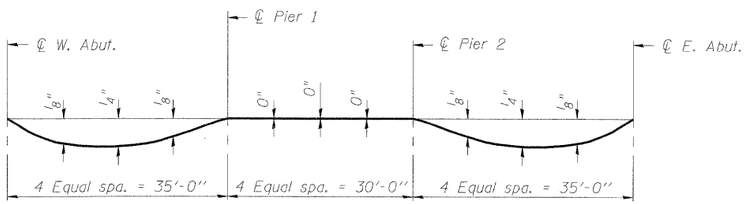
TEMPORARY CONCRETE BARRIER FOR STAGED CONSTRUCTION

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	42
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:_2002\620019.0041\Cadd\Structural\SN622-0181 Final\Sheet\622018I-60B95-005-TBR.dgn





DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load locations as shown on sheet 7 of 26.

JACOBS

	DESIGNED - SJB	REVISED -
	DRAWN - FJD	REVISED -
PLOT SCALE =	CHECKED - JSS	REVISED -
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TOP OF SLAB ELEVATIONS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	43
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

OFFSET 28'-9" LEFT

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
W. End of Slab	915+89.50	-28.75	691.75	691.75
C/L W. Abut.	915+90.25	-28.75	691.76	691.76
A	916+00.25	-28.75	691.79	691.81
B	916+10.25	-28.75	691.82	691.83
C/L Pier 1	916+24.00	-28.75	691.84	691.84
C	916+34.00	-28.75	691.85	691.84
D	916+44.00	-28.75	691.85	691.84
C/L Pier 2	916+54.00	-28.75	691.84	691.84
E	916+64.00	-28.75	691.83	691.84
F	916+74.00	-28.75	691.80	691.82
C/L E. Abut.	916+87.75	-28.75	691.76	691.76
E. End of Slab	916+88.50	-28.75	691.76	691.76

OFFSET 16' LEFT

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
W. End of Slab	915+89.50	-16.00	692.01	692.01
C/L W. Abut.	915+90.25	-16.00	692.01	692.01
A	916+00.25	-16.00	692.05	692.06
B	916+10.25	-16.00	692.07	692.09
C/L Pier 1	916+24.00	-16.00	692.09	692.09
C	916+34.00	-16.00	692.10	692.10
D	916+44.00	-16.00	692.10	692.10
C/L Pier 2	916+54.00	-16.00	692.09	692.09
E	916+64.00	-16.00	692.08	692.09
F	916+74.00	-16.00	692.06	692.08
C/L E. Abut.	916+87.75	-16.00	692.02	692.02
E. End of Slab	916+88.50	-16.00	692.01	692.01

WESTBOUND PG

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
W. End of Slab	915+89.50	-4.00	692.25	692.25
C/L W. Abut.	915+90.25	-4.00	692.25	692.25
A	916+00.25	-4.00	692.29	692.30
B	916+10.25	-4.00	692.31	692.33
C/L Pier 1	916+24.00	-4.00	692.33	692.33
C	916+34.00	-4.00	692.34	692.34
D	916+44.00	-4.00	692.34	692.34
C/L Pier 2	916+54.00	-4.00	692.33	692.33
E	916+64.00	-4.00	692.32	692.33
F	916+74.00	-4.00	692.30	692.32
C/L E. Abut.	916+87.75	-4.00	692.26	692.26
E. End of Slab	916+88.50	-4.00	692.25	692.25

STAGE CONSTRUCTION LINE

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
W. End of Slab	915+89.50	-2.00	692.29	692.29
C/L W. Abut.	915+90.25	-2.00	692.29	692.29
A	916+00.25	-2.00	692.33	692.34
B	916+10.25	-2.00	692.35	692.37
C/L Pier 1	916+24.00	-2.00	692.37	692.37
C	916+34.00	-2.00	692.38	692.38
D	916+44.00	-2.00	692.38	692.38
C/L Pier 2	916+54.00	-2.00	692.37	692.37
E	916+64.00	-2.00	692.36	692.37
F	916+74.00	-2.00	692.34	692.36
C/L E. Abut.	916+87.75	-2.00	692.30	692.30
E. End of Slab	916+88.50	-2.00	692.29	692.29

℄ ROADWAY

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
W. End of Slab	915+89.50	0.00	692.33	692.33
C/L W. Abut.	915+90.25	0.00	692.33	692.33
A	916+00.25	0.00	692.37	692.38
B	916+10.25	0.00	692.39	692.41
C/L Pier 1	916+24.00	0.00	692.41	692.41
C	916+34.00	0.00	692.42	692.42
D	916+44.00	0.00	692.42	692.42
C/L Pier 2	916+54.00	0.00	692.41	692.41
E	916+64.00	0.00	692.40	692.41
F	916+74.00	0.00	692.38	692.40
C/L E. Abut.	916+87.75	0.00	692.34	692.34
E. End of Slab	916+88.50	0.00	692.33	692.33

EASTBOUND PG

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
W. End of Slab	915+89.50	4.00	692.25	692.25
C/L W. Abut.	915+90.25	4.00	692.25	692.25
A	916+00.25	4.00	692.29	692.30
B	916+10.25	4.00	692.31	692.33
C/L Pier 1	916+24.00	4.00	692.33	692.33
C	916+34.00	4.00	692.34	692.34
D	916+44.00	4.00	692.34	692.34
C/L Pier 2	916+54.00	4.00	692.33	692.33
E	916+64.00	4.00	692.32	692.33
F	916+74.00	4.00	692.30	692.32
C/L E. Abut.	916+87.75	4.00	692.26	692.26
E. End of Slab	916+88.50	4.00	692.25	692.25

OFFSET 16' RIGHT

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
W. End of Slab	915+89.50	16.00	692.01	692.01
C/L W. Abut.	915+90.25	16.00	692.01	692.01
A	916+00.25	16.00	692.05	692.06
B	916+10.25	16.00	692.07	692.09
C/L Pier 1	916+24.00	16.00	692.09	692.09
C	916+34.00	16.00	692.10	692.10
D	916+44.00	16.00	692.10	692.10
C/L Pier 2	916+54.00	16.00	692.09	692.09
E	916+64.00	16.00	692.08	692.09
F	916+74.00	16.00	692.06	692.08
C/L E. Abut.	916+87.75	16.00	692.02	692.02
E. End of Slab	916+88.50	16.00	692.01	692.01

OFFSET 28'-9" RIGHT

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
W. End of Slab	915+89.50	28.75	691.75	691.75
C/L W. Abut.	915+90.25	28.75	691.76	691.76
A	916+00.25	28.75	691.79	691.81
B	916+10.25	28.75	691.82	691.83
C/L Pier 1	916+24.00	28.75	691.84	691.84
C	916+34.00	28.75	691.85	691.84
D	916+44.00	28.75	691.85	691.84
C/L Pier 2	916+54.00	28.75	691.84	691.84
E	916+64.00	28.75	691.83	691.84
F	916+74.00	28.75	691.80	691.82
C/L E. Abut.	916+87.75	28.75	691.76	691.76
E. End of Slab	916+88.50	28.75	691.76	691.76

STR-7 OF 26

JACOBS

	DESIGNED - SJB	REVISED -	11/24/08
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TOP OF SLAB ELEVATIONS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	44
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:\2002\02B019.02A\Cadd\Structural\SN022-0181 Final\Sheets\022B181-60B95-007-TOS_2.dgn

WESTBOUND PG

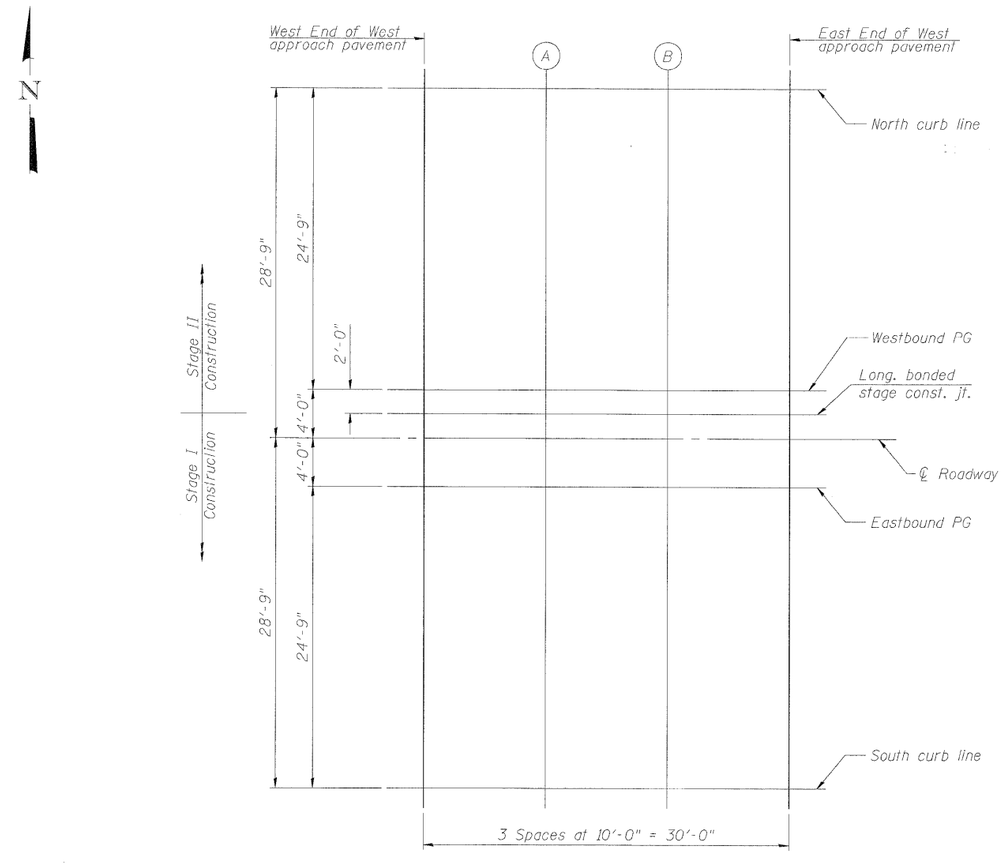
Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Pvmt.	915+59.50	-4.00	692.10
A	915+69.50	-4.00	692.16
B	915+79.50	-4.00	692.21
E. End W. Appr. Pvmt.	915+89.50	-4.00	692.25

EASTBOUND PG

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Pvmt.	915+59.50	4.00	692.10
A	915+69.50	4.00	692.16
B	915+79.50	4.00	692.21
E. End W. Appr. Pvmt.	915+89.50	4.00	692.25

STAGE CONSTRUCTION JOINT

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Pvmt.	915+59.50	-2.00	692.14
A	915+69.50	-2.00	692.20
B	915+79.50	-2.00	692.25
E. End W. Appr. Pvmt.	915+89.50	-2.00	692.29



PLAN

SOUTH CURB LINE

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Pvmt.	915+59.50	28.75	691.61
A	915+69.50	28.75	691.67
B	915+79.50	28.75	691.71
E. End W. Appr. Pvmt.	915+89.50	28.75	691.75

NORTH CURB LINE

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End W. Appr. Pvmt.	915+59.50	-28.75	691.61
A	915+69.50	-28.75	691.67
B	915+79.50	-28.75	691.71
E. End W. Appr. Pvmt.	915+89.50	-28.75	691.75

JACOBS

	DESIGNED - JRW	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TOP OF WEST APPROACH SLAB ELEVATIONS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DUPAGE	87	45
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:_2002\X220019.2041\Cadd\Structural\SN022-0181 Final\Sheet\X2220181-60B95-020-APRW.dgn

WESTBOUND PG

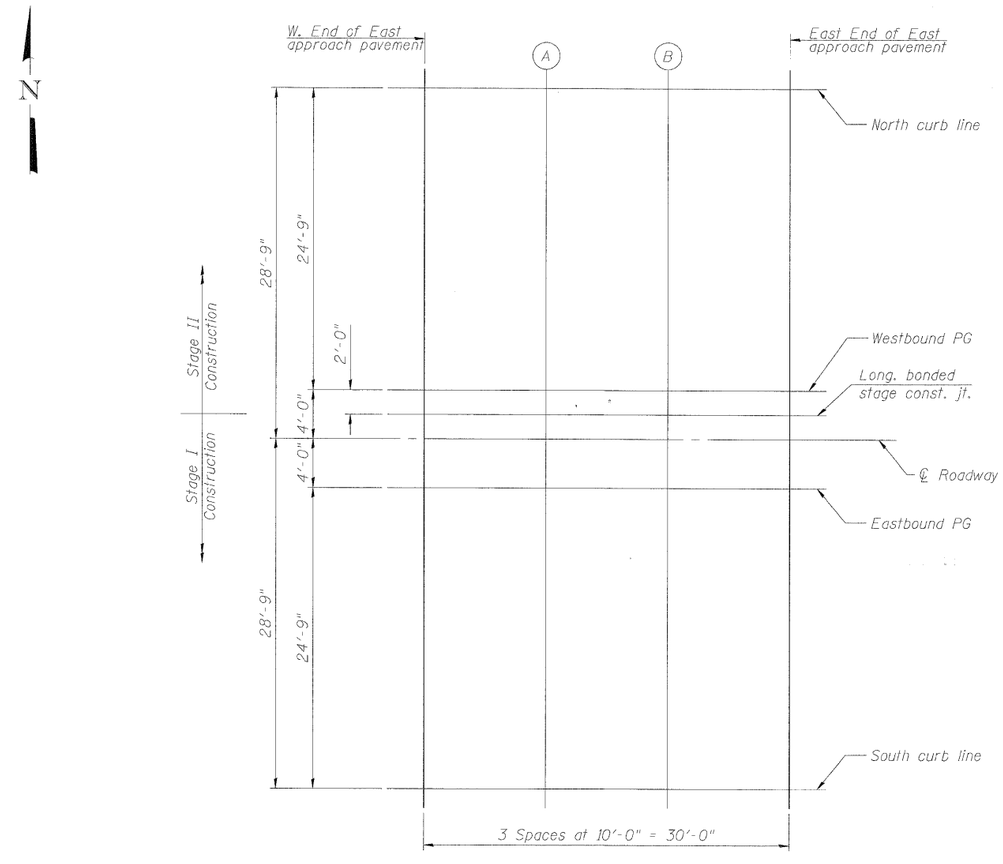
Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Pvmt.	916+88.50	-4.00	692.25
A	916+98.50	-4.00	692.21
B	917+08.50	-4.00	692.16
E. End E. Appr. Pvmt.	917+18.50	-4.00	692.11

EASTBOUND PG

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Pvmt.	916+88.50	4.00	692.25
A	916+98.50	4.00	692.21
B	917+08.50	4.00	692.16
E. End E. Appr. Pvmt.	917+18.50	4.00	692.11

STAGE CONSTRUCTION JOINT

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Pvmt.	916+88.50	-2.00	692.29
A	916+98.50	-2.00	692.25
B	917+08.50	-2.00	692.20
E. End E. Appr. Pvmt.	917+18.50	-2.00	692.15



PLAN

SOUTH CURB LINE

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Pvmt.	916+88.50	28.75	691.76
A	916+98.50	28.75	691.72
B	917+08.50	28.75	691.67
E. End E. Appr. Pvmt.	917+18.50	28.75	691.61

NORTH CURB LINE

Location	Station	Offset (ft.)	Theoretical Grade Elevations
W. End E. Appr. Pvmt.	916+88.50	-28.75	691.76
A	916+98.50	-28.75	691.72
B	917+08.50	-28.75	691.67
E. End E. Appr. Pvmt.	917+18.50	-28.75	691.61

JACOBS

	DESIGNED - JRW	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

TOP OF EAST APPROACH SLAB ELEVATIONS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	46
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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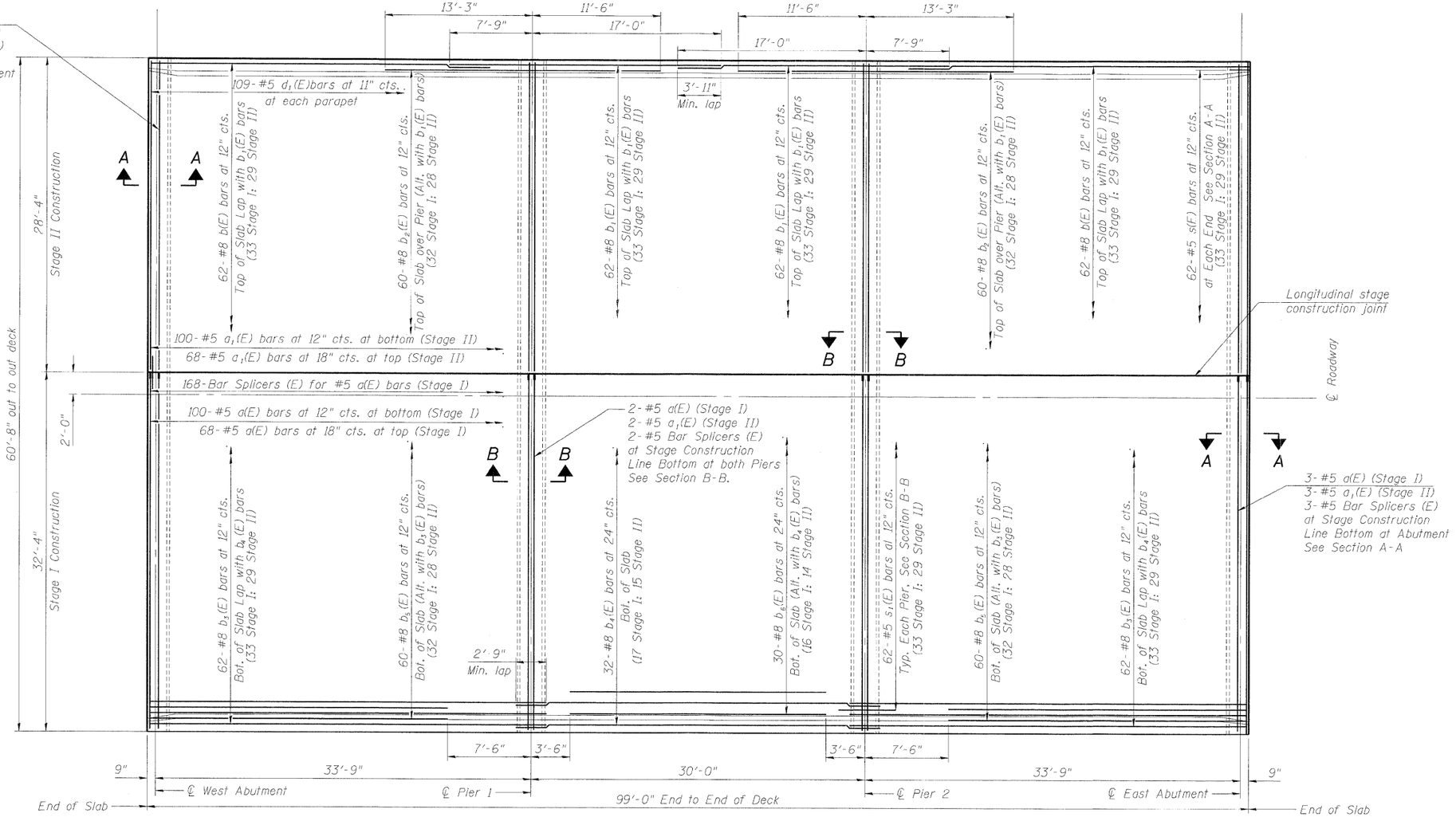

PLAN

NOTES:

1. See Sheet 12 of 26 for bridge railing details and Bill of Material.
2. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach pavement.

STR-10 OF 26

JE JACOBS

	DESIGNED - LJH	REVISED -
	DRAWN - FJD	REVISED -
PLOT SCALE =	CHECKED - JSS	REVISED -
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUPERSTRUCTURE

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	47
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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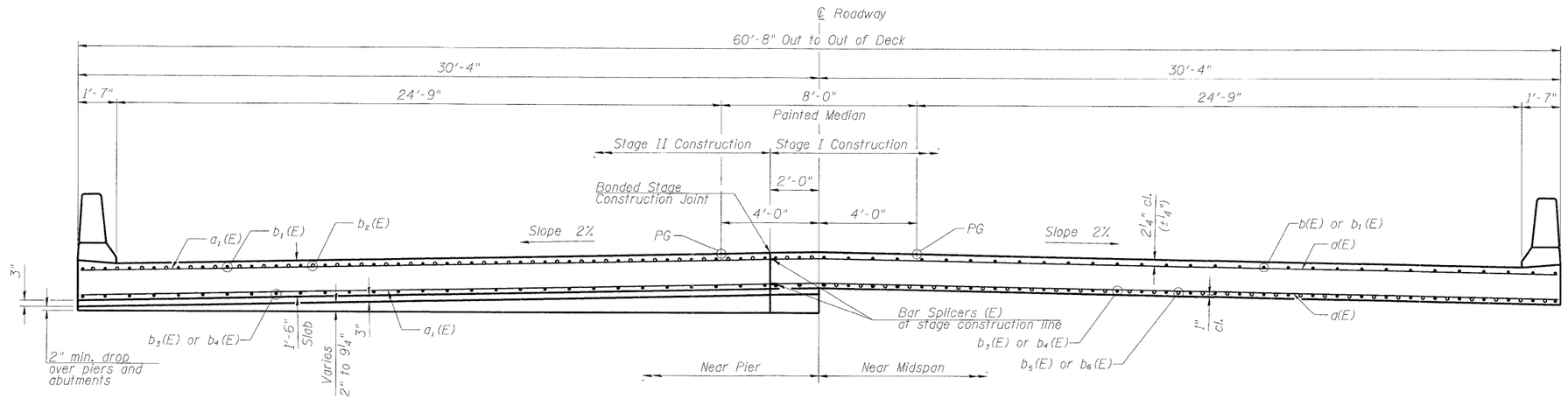
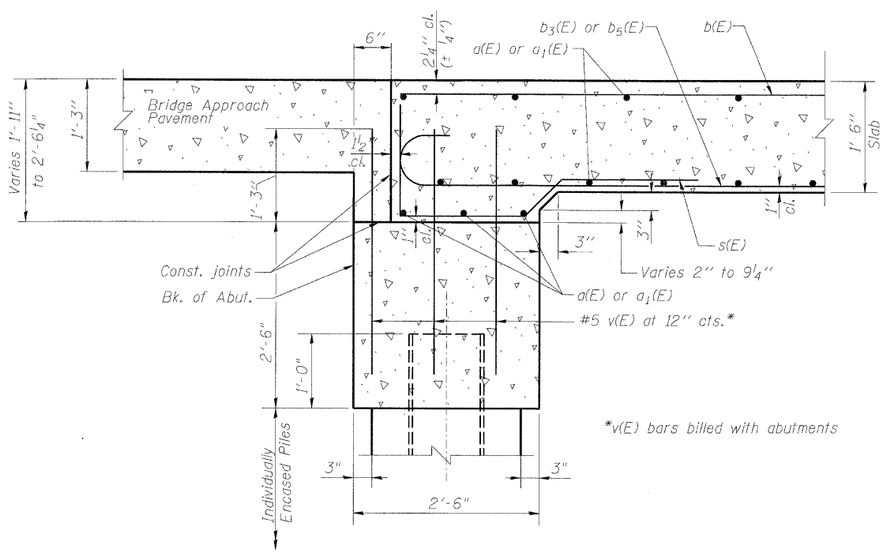
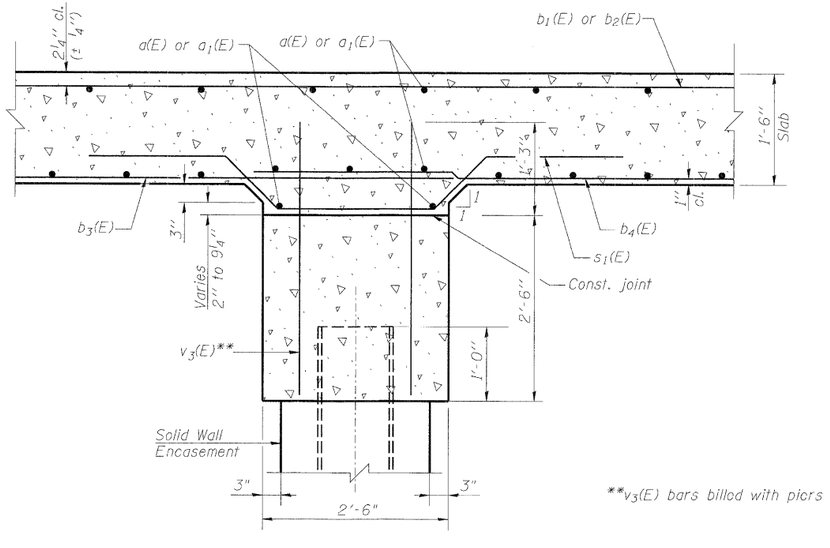


CROSS SECTION
(Looking East)



SECTION A-A



SECTION B-B

JACOBS

	DESIGNED - LJH	REVISED -
	DRAWN - FJD	REVISED -
PLOT SCALE =	CHECKED - JSS	REVISED -
PLOT DATE = 12/9/2020	DATE - 10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SUPERSTRUCTURE DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	48
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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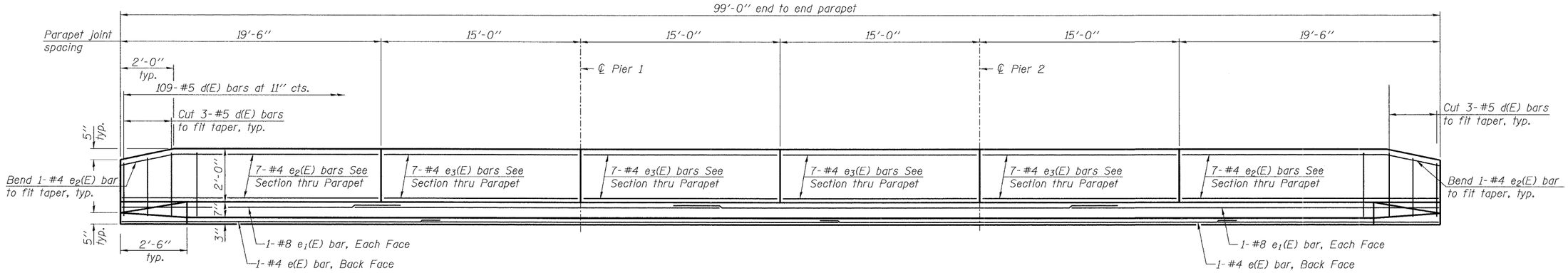
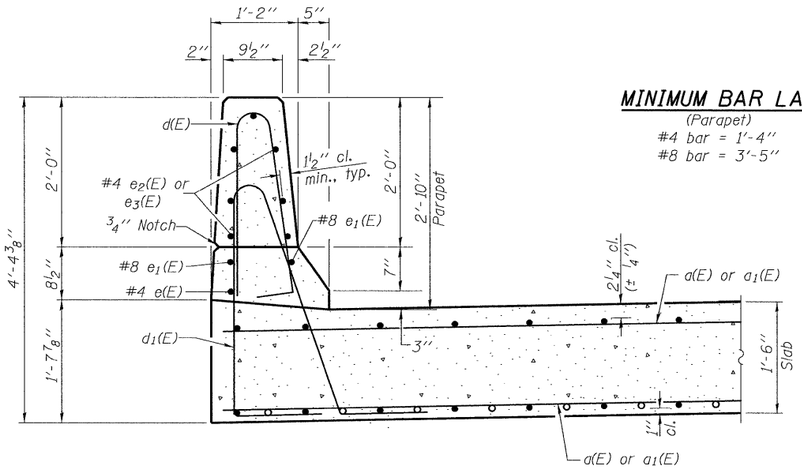
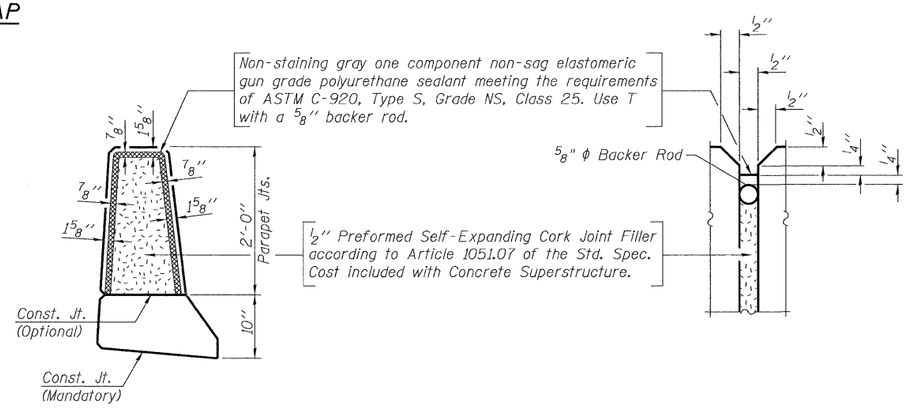




MINIMUM BAR LAP

(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"

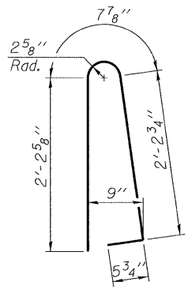
INSIDE ELEVATION OF PARAPET



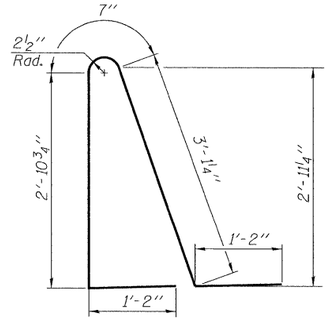
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	178	#5	31'-11"	
d1(E)	178	#5	28'-0"	
b(E)	124	#8	30'-6"	
b1(E)	124	#8	24'-9"	
b2(E)	120	#8	24'-9"	
b3(E)	124	#8	36'-7"	
b4(E)	32	#8	32'-9"	
b5(E)	120	#8	27'-9"	
b6(E)	30	#8	23'-0"	
d(E)	218	#5	5'-7"	
d1(E)	218	#5	8'-11"	
e(E)	8	#4	26'-1"	
e1(E)	16	#8	28'-2"	
e2(E)	28	#4	19'-1"	
e3(E)	56	#4	14'-8"	
s(E)	124	#5	5'-9"	
s1(E)	124	#5	7'-10"	
Reinforcement Bars, Epoxy Coated		Pound	70,290	
Concrete Superstructure		Cu. Yds.	355.7	
Bar Splicers (E)		Each	178	

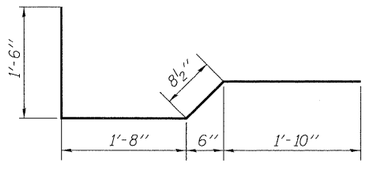
SECTION THRU PARAPET



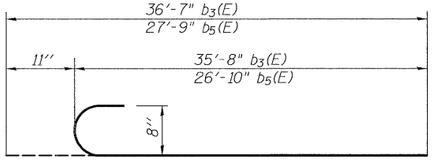
BAR d(E)



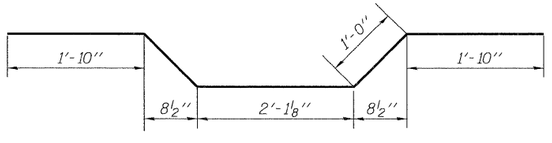
BAR d1(E)



BAR s(E)



BAR b3(E) & b5(E)



BAR s1(E)

PARAPET JOINT DETAILS

STR-12 OF 26

JACOBS

	DESIGNED - LJH	REVISED - 11/24/08	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

BRIDGE RAILING DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	49
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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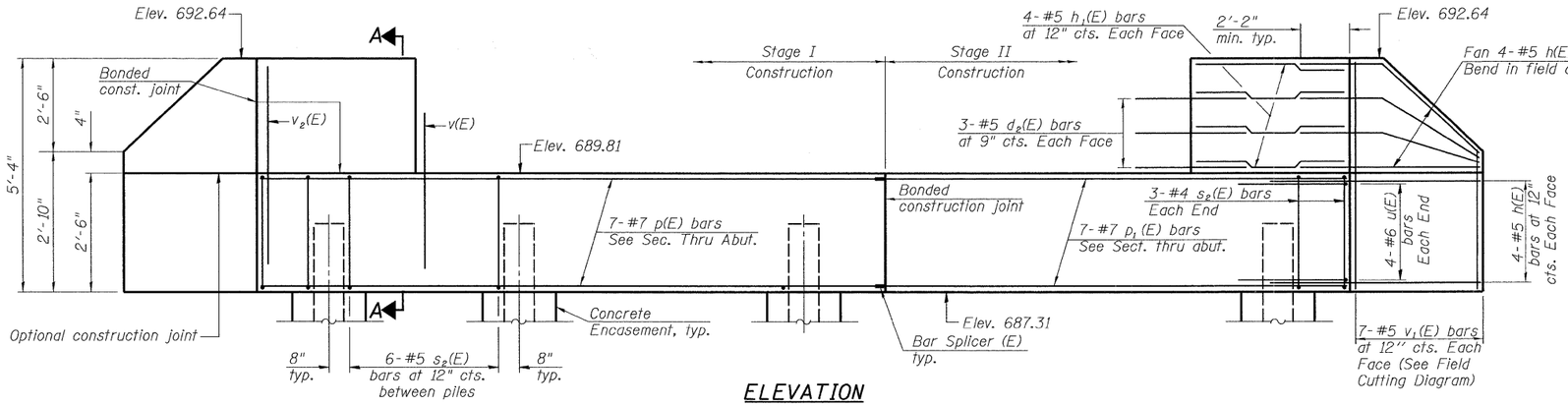
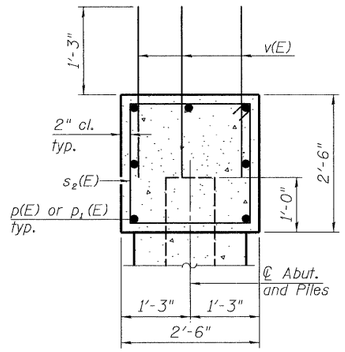


ELEVATION



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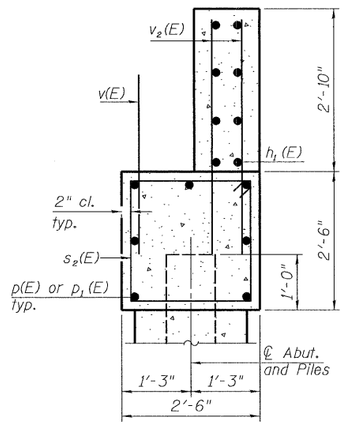
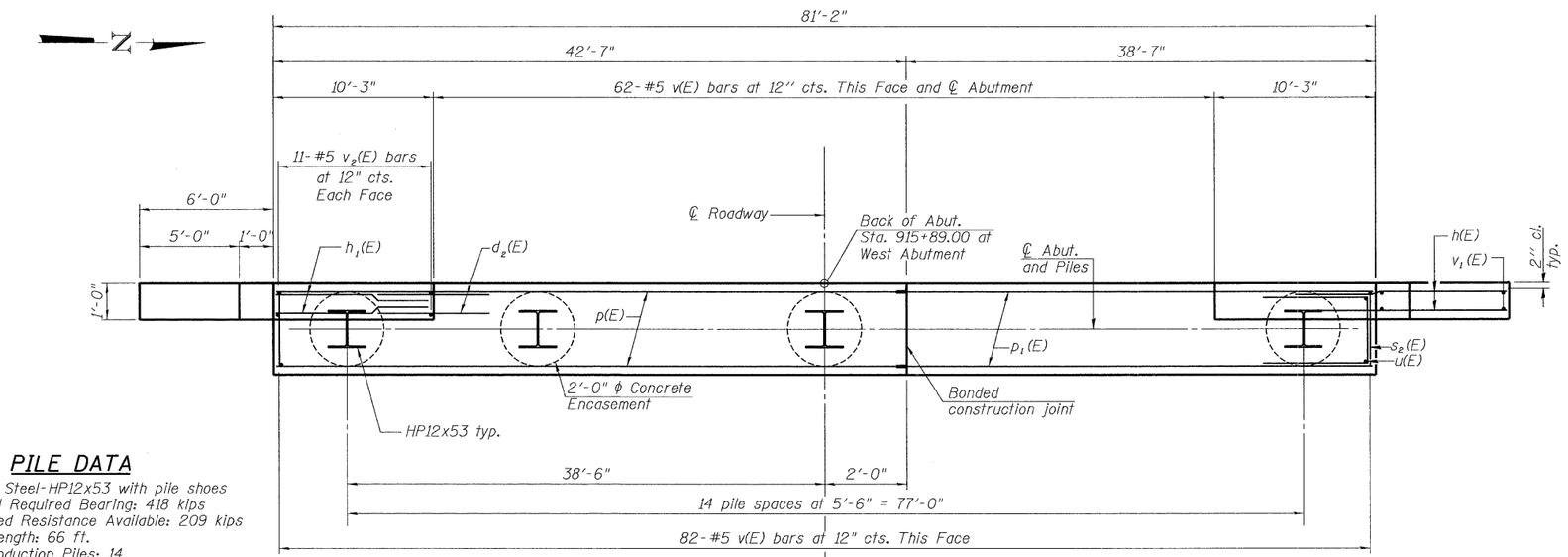


SECTION A-A



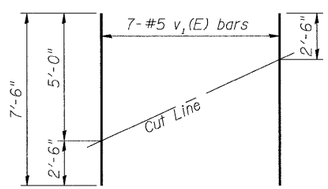
PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d_2(E)$	12	#5	4'-4"	
h(E)	32	#5	8'-9"	
$h_1(E)$	16	#5	9'-11"	
p(E)	7	#7	42'-2"	
$p_1(E)$	7	#7	38'-3"	
$s_2(E)$	90	#4	9'-5"	
u(E)	8	#6	7'-3"	
v(E)	206	#5	2'-9"	
$v_1(E)$	14	#5	7'-6"	
$v_2(E)$	44	#5	4'-2"	
Structure Excavation		Cu. Yd.	6	
Concrete Structures		Cu. Yd.	22.9	
Reinforcement Bars, Epoxy Coated		Pound	3,210	
Bar Splicers (E)		Each	7	
Furnishing Steel Piles HP12x53		Foot	924	
Driving Piles		Foot	924	
Pile Shoes		Each	15	
Test Pile		Each	1	
Concrete Encasement		Cu. Yd.	5.3	

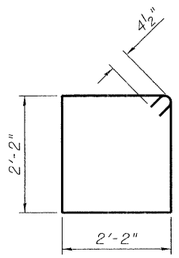
PILE DATA

Type: Steel-HP12x53 with pile shoes
Nominal Required Bearing: 418 kips
Factored Resistance Available: 209 kips
Est. Length: 66 ft.
No. Production Piles: 14
No. Test Piles: 1

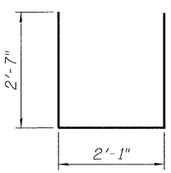


FIELD CUTTING DIAGRAM

Order $v_1(E)$ full length. Cut as shown and use remainder of bars in opposite face.



BAR $s_2(E)$



BAR u(E)

STR-13 OF 26

JACOBS

	DESIGNED - SJB	REVISED - 11/24/08	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

WEST ABUTMENT

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	50
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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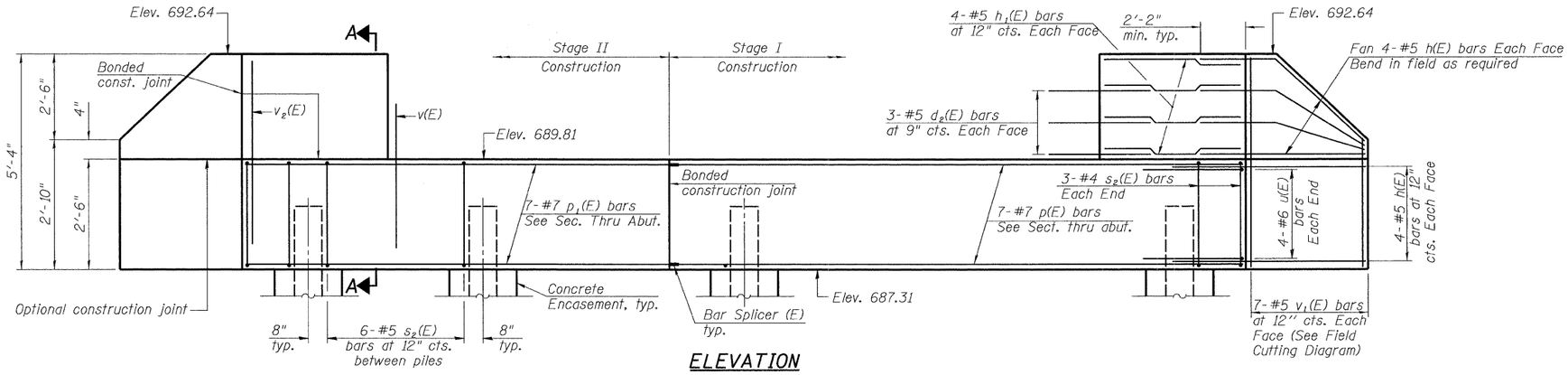
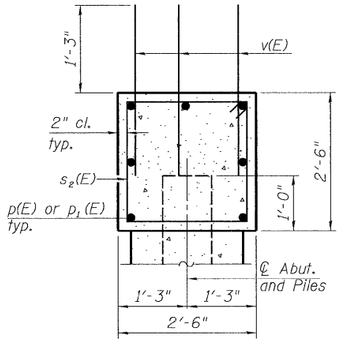
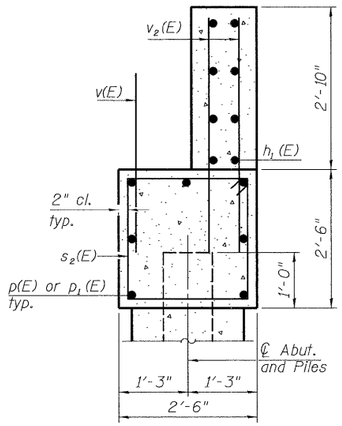


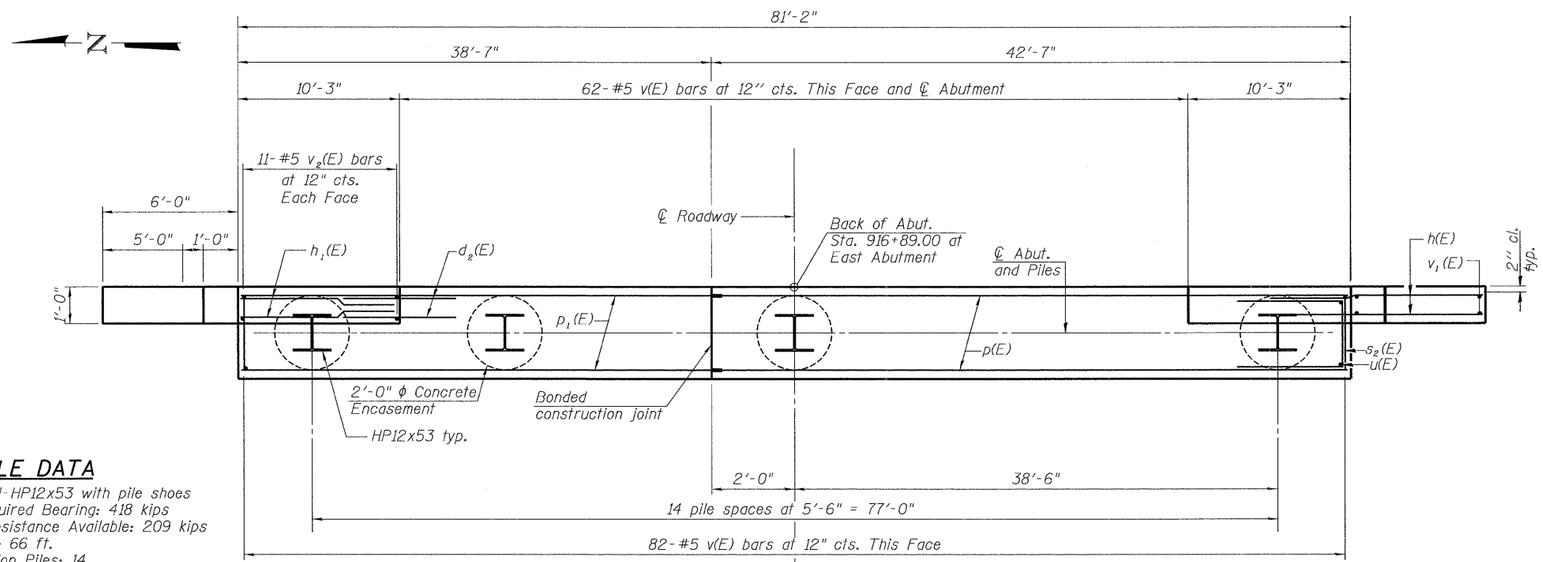
ELEVATION



SECT. THRU ABUT.



SECTION A-A



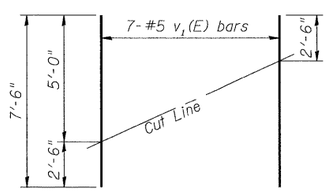
PLAN

PILE DATA

Type: Steel-HP12x53 with pile shoes
Nominal Required Bearing: 418 kips
Factored Resistance Available: 209 kips
Est. Length: 66 ft.
No. Production Piles: 14
No. Test Piles: 1

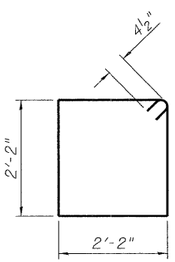
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d_2(E)$	12	#5	4'-4"	——
h(E)	32	#5	8'-9"	——
$h_1(E)$	16	#5	9'-11"	——
p(E)	7	#7	42'-2"	——
$p_1(E)$	7	#7	38'-3"	——
$s_2(E)$	90	#4	9'-5"	⌐
u(E)	8	#6	7'-3"	⌐
v(E)	206	#5	2'-9"	——
$v_1(E)$	14	#5	7'-6"	——
$v_2(E)$	44	#5	4'-2"	——
Structure Excavation		Cu. Yd.		6
Concrete Structures		Cu. Yd.		22.9
Reinforcement Bars, Epoxy Coated		Pound		3,210
Bar Splicers (E)		Each		7
Furnishing Steel Piles HP12x53		Foot		924
Driving Piles		Foot		924
Pile Shoes		Each		15
Test Pile		Each		1
Concrete Encasement		Cu. Yd.		5.3

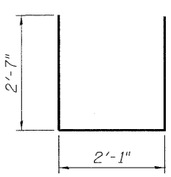


FIELD CUTTING DIAGRAM

Order $v_1(E)$ full length. Cut as shown and use remainder of bars in opposite face.



BAR $s_2(E)$



BAR u(E)

JACOBS

	DESIGNED - SJB	REVISED - 11/24/08	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

EAST ABUTMENT

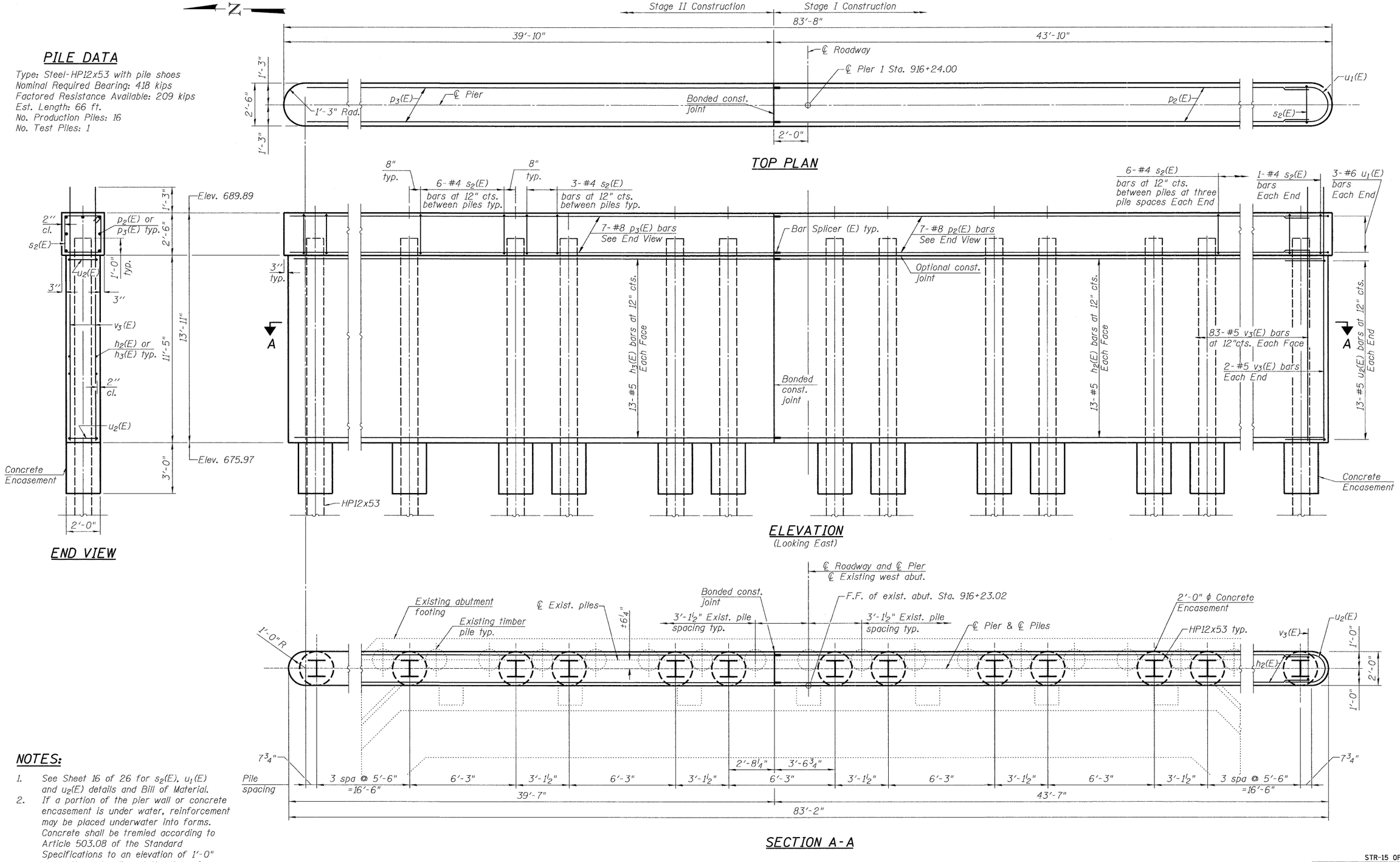
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	51
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:_2002\020019.024\Cadd\Structural\SN822-018I Final\Sheets\822018I-60B95-B14-EABUT.dgn

PILE DATA

Type: Steel-HP12x53 with pile shoes
Nominal Required Bearing: 418 kips
Factored Resistance Available: 209 kips
Est. Length: 66 ft.
No. Production Piles: 16
No. Test Piles: 1



END VIEW

ELEVATION
(Looking East)

SECTION A-A

NOTES:

1. See Sheet 16 of 26 for s_2(E), u_1(E) and u_2(E) details and Bill of Material.
2. If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

JACOBS

	DESIGNED - LJH	REVISED - 11/24/08	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

PIER 1

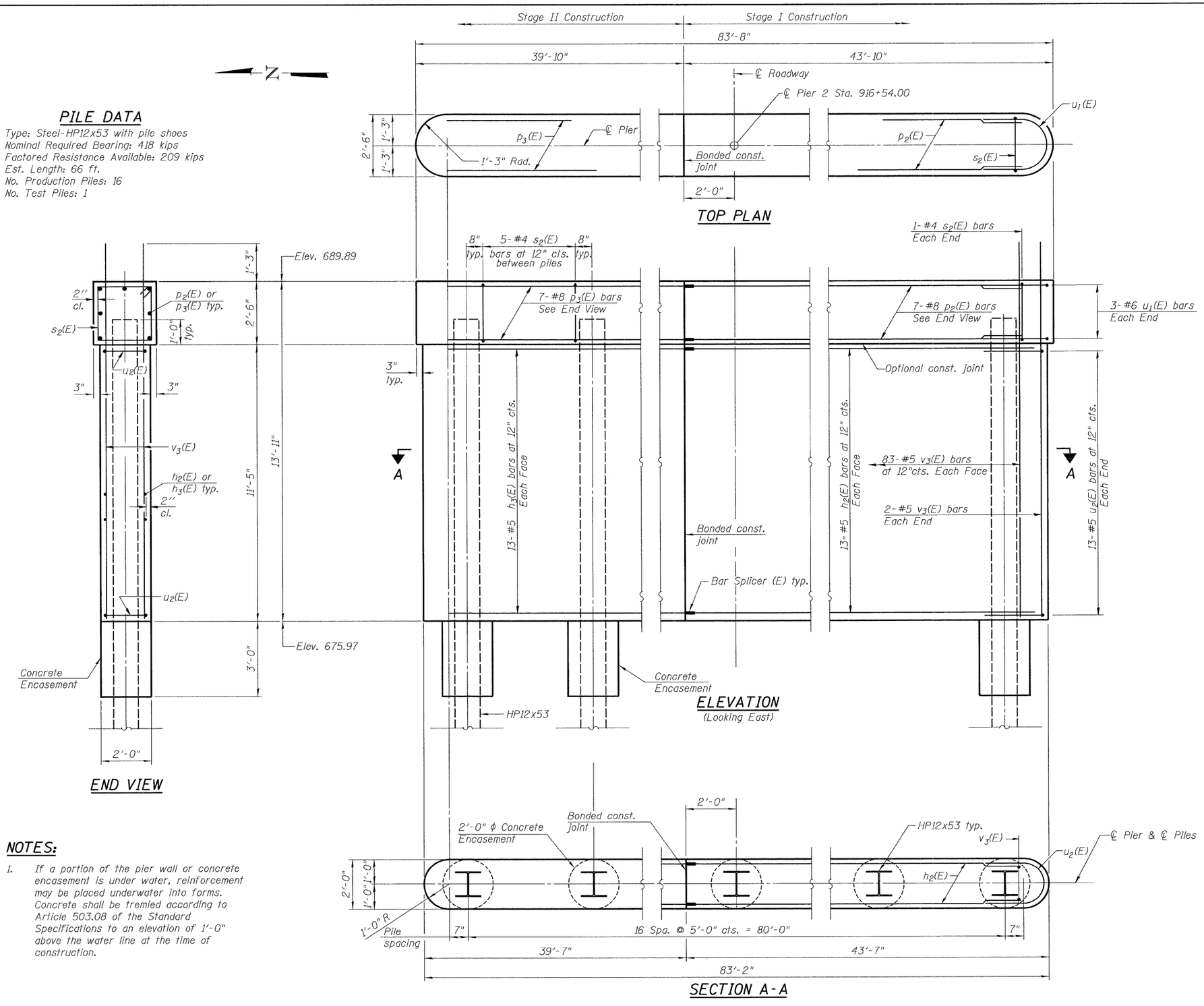
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

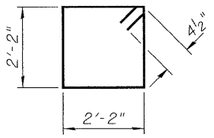
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	52
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:_2002\02001%004\Cadd\Structural\SN022-01.01 Final Sheets\022001-60B95-015-PR01.dgn

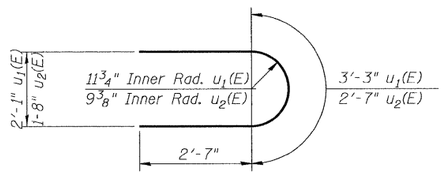
PILE DATA

Type: Steel-HP12x53 with pile shoes
Nominal Required Bearing: 418 kips
Factored Resistance Available: 209 kips
Est. Length: 66 ft.
No. Production Piles: 16
No. Test Piles: 1





BAR $s_2(E)$



BARS $u_1(E)$ & $u_2(E)$

BILL OF MATERIAL FOR TWO PIERS

Bar	No.	Size	Length	Shape
$h_2(E)$	52	#5	42'-4"	——
$h_3(E)$	52	#5	38'-5"	——
$p_2(E)$	14	#8	42'-4"	——
$p_3(E)$	14	#8	38'-5'	——
$s_2(E)$	165	#4	9'-5"	□
$u_1(E)$	12	#6	8'-5"	⊃
$u_2(E)$	52	#5	7'-9"	⊃
$v_3(E)$	340	#5	15'-0"	——
Structure Excavation		Cu. Yd.		54
Concrete Structures		Cu. Yd.		178.6
Reinforcement Bars, Epoxy Coated		Pound		14,320
Bar Splicers		Each		66
Furnishing Steel Piles HP12x53		Foot		2,112
Driving Piles		Foot		2,112
Pile Shoes		Each		34
Test Piles		Each		2
Concrete Encasement		Cu. Yd.		11.8
Underwater Structure Excavation Protection - Location 1		Each		1
Underwater Structure Excavation Protection - Location 2		Each		1

NOTES:

1. If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

JACOBS

	DESIGNED - SJB	REVISED - 11/24/08
	DRAWN - FJD	REVISED -
PLOT SCALE =	CHECKED - JSS	REVISED -
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -

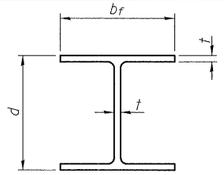
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

PIER 2

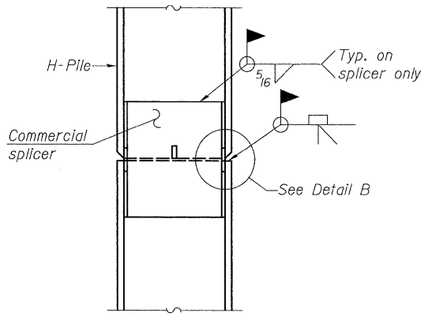
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	53
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

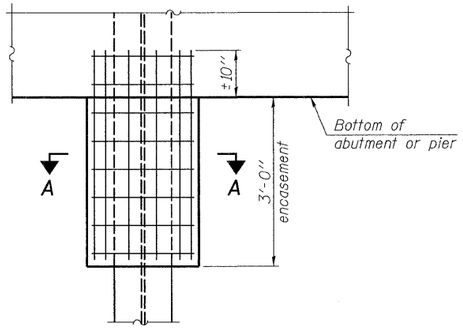


STEEL PILE TABLE

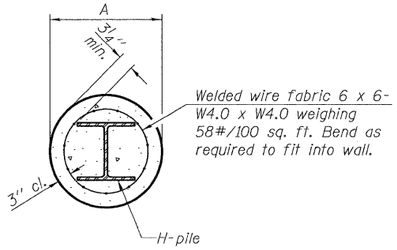
Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	1/16"	18"



ELEVATION



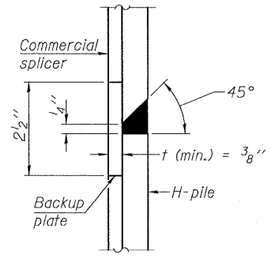
ELEVATION



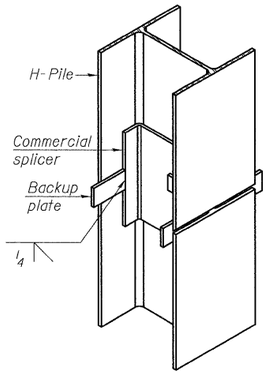
SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

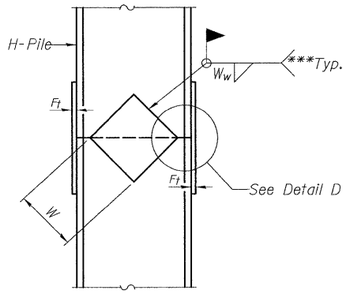
PILE ENCASEMENT



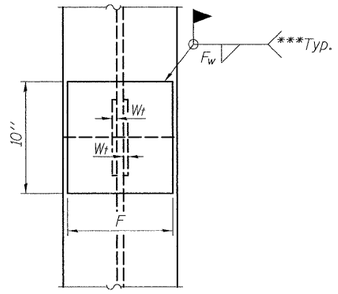
DETAIL "B"



ISOMETRIC VIEW

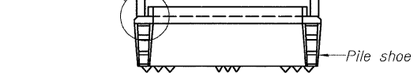


ELEVATION

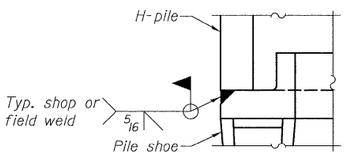


END VIEW

WELDED COMMERCIAL SPLICE

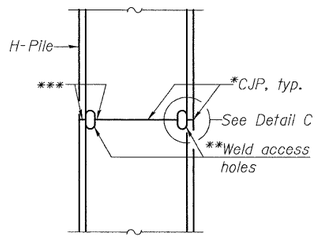


ELEVATION

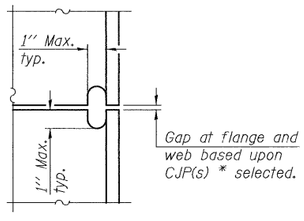


DETAIL A

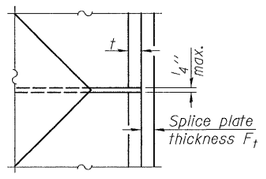
H-PILE SHOE ATTACHMENT



ELEVATION



DETAIL C



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

COMPLETE PENETRATION WELD SPLICE

WELDED PLATE FIELD SPLICE

*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.

**Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.

***Interrupt welds 1/4" from end of each pile.

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

JACOBS

	DESIGNED - SJB	REVISED - 11/24/08	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

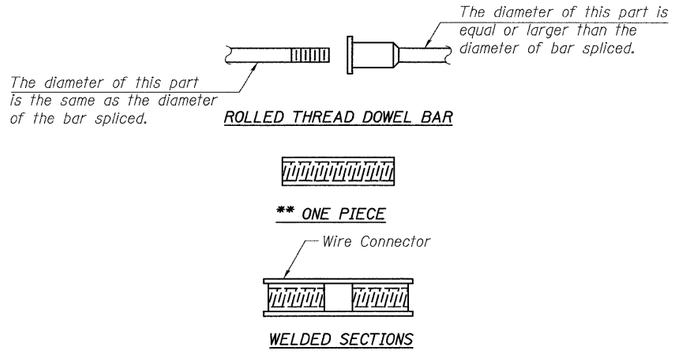
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

PILE DETAILS

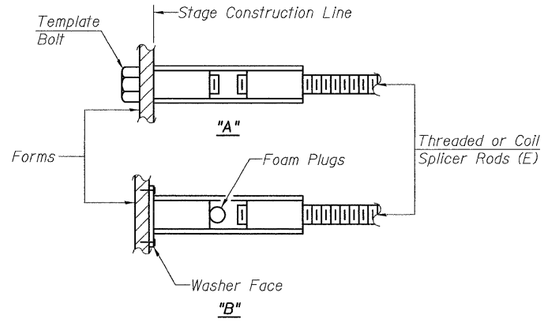
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	54
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



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.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

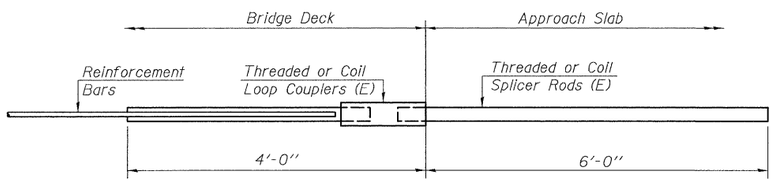
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times fy \times A_t$

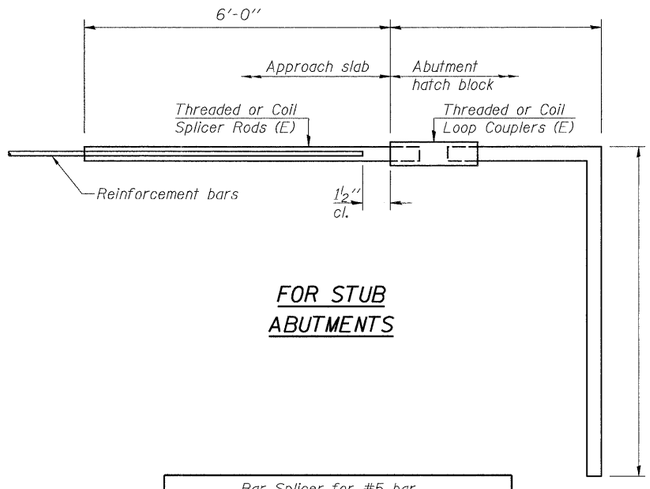
Where fy = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



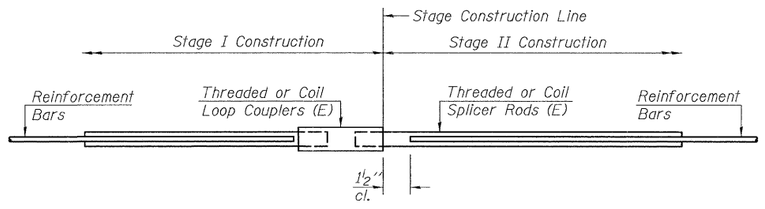
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



STANDARD

Bar Size	No. Assemblies Required	Location
#5	178	Slab
#7	7	W. Abut.
#7	7	E. Abut.
#5	52	Piers 1 & 2
#8	14	Piers 1 & 2

JACOBS

	DESIGNED - LJH	REVISED - 11/24/08	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 11/24/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

BAR SPLICER ASSEMBLY DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	55
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:_2002\02200\9.0241\Cadd\Structural\SW022-0181 Final\Sheet\02200181-60B95-018-BRSPL.dgn

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Page 1 of 2

Date 12/18/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-1
Station 915+95
Offset 18.00ft Rt.
Ground Surface Elev. 687.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 670.8 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6" Asphalt over crushed stone			
686.20			
Peat and topsoil, some silty clay, dark gray, medium dense	4		
	5		40.0
	7		
684.30			
Silty clay, trace roots, brown, gray, and some dark gray, very stiff	4		
	6		24.0
-5	8		
681.30			
Peat and topsoil, dark gray, stiff	4		
	5	1.6	54.0
	8	P	
679.30			
Silty clay and fine stone, some sand, dark brown, very stiff	4		
	5	2.4	12.0
-10	5	P	
677.30			
Silty clay, some sand, dark gray, wet, medium stiff	5		
	6	0.6	44.0
	6	P	
674.30			
Fine to coarse sand and silty clay, gray, wet, medium dense	4		
	6		15.0
-15	9		
671.30			
Silt, gray, wet	5		
	7		23.0
	9		
669.30			
Silty loam, some stone, gray, wet, dense	12		
	23	1.6	26.0
-20	25	P	
Silty loam, some stone, gray, wet, dense *(continued)*			
666.30			
Fine to coarse sand and fine gravel, gray, wet, medium dense	5		
	8		12.0
	11		
664.30			
Silty clay, some stones, gray, stiff	4		
	6	1.1	22.0
-25	7	P	
	4		
	5	1.2	21.0
	7	B	
659.30			
Fine to coarse sand and fine gravel, gray, wet, medium dense	5		
	4		20.0
-30	6		
	5		
	8		
-35	9		
650.30			
Fine to coarse sand and gravel, gray, wet, medium dense	5		
	7		9.0
-40	9		

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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Page 2 of 2

Date 12/18/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-1
Station 915+95
Offset 18.00ft Rt.
Ground Surface Elev. 687.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 670.8 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to coarse sand and gravel, gray, wet, medium dense *(continued)*			
645.30			
Fine gravel, gray, wet, dense	25		
	40		6.0
-45	25		
639.30			
Weathered limestone, gray, wet, dense	40		
	35		9.0
637.30 -50	37		
End of Boring			
-55			
-60			

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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Page 1 of 2

Date 12/18/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-2
Station 916+19
Offset 44.00ft Rt.
Ground Surface Elev. 682.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 676.0 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silty clay and topsoil, dark brown, stiff	2		
	3	1.6	15.0
	4	P	
679.00			
Silty clay, some stone, dark brown, wet, stiff	3		
	4	1.6	17.0
677.00 -5	5	P	
Silty clay and sand, trace wood, dark gray, medium dense	5		
	5		16.0
	7		
674.00			
Fine to coarse sand and silty clay, some stone, dark gray, wet, medium dense	4		
	6		11.0
-10	7		
671.00			
Fine gravel, some stone, gray, wet, medium dense	5		
	8		7.0
	12		
	10		
	8		10.0
-15	12		
666.00			
Silty clay, trace sand and stone, gray, stiff	5		
	7	1.4	20.0
	11	P	
	5		
-20	6	1.2	12.0
	8	B	
Silty clay, trace sand and stone, gray, stiff *(continued)*			
661.00			
Silty clay, some stones, gray, stiff to very stiff	5		
	7	1.2	12.0
	12	B	
	5		
-25	8	3.4	8.0
	10	S	
656.00			
Weathered limestone, silty sand, some clay, gray, wet, dense	26		
	36		9.0
	16		
654.00			
Fine gravel, some coarse sand, gray, wet, dense	35		
	18		8.0
-30	18		
650.00			
Fine gravel and coarse sand, gray, wet, dense	27		
	16		8.0
-35	14		
645.00			
Weathered limestone, silt and stone, light gray, wet, dense	37		
	15		10.0
-40	44		

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)

FILE NAME = P:_2007\07B019.024\Cadd\Structure\SN022-2181_Final Sheets\022B181-60B95-B19-BOR.dgn

STR-19 OF 26

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SOIL BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	56
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/18/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-2
Station 916+19
Offset 44.00ft Rt
Ground Surface Elev. 682.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 676.0 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Weathered limestone, silt and stone, light gray, wet, dense *(continued)*			
640.00			
Weathered limestone, silt, and stone, gray, wet, medium dense to dense			
	5		
-45	5 7		13.0
	5		
	20 26		8.0
632.00 -50			
End of Boring			
-55			
-60			

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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/17/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-3
Station 916+64
Offset 46.00ft Rt
Ground Surface Elev. 683.60 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 678.1 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Black peat			
682.60			
Peat, topsoil, some clay, trace stone, moist, dark brown, loose	3		
	4 4		54.0
680.60			
Silty clay, topsoil, trace roots and stone, dark gray, medium stiff	2		
	3 3	0.8 B	29.0
-5			
677.60			
Fine to medium sand, some silty clay, gray, wet, loose	2		
	3 3		20.0
675.60			
Silty loam, gray, wet, loose	3		
	4 5	1.9 P	22.0
-10			
672.60			
Fine to medium sand, some stone and silt, gray, wet, medium dense	5		
	10 13		20.0
670.60			
Fine to coarse sand, trace silt, gray, wet, medium dense	5		
	7 10		19.0
-15			
667.60			
Silty clay, gray, very stiff	4		
	5 10	1.9 P	19.0
665.60			
Fine gravel and coarse sand, some stone, gray, wet, medium dense	5		
-20	7 10		7.0

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine gravel and coarse sand, some stone, gray, wet, medium dense *(continued)*			
662.60			
Sandy clay loam, gray, wet, dense	10		
	19 21		13.0
660.60			
Coarse sand and stone, gray, wet, medium dense	5		
-25	7 12		11.0
	7		
	9 13		8.0
655.60			
Coarse sand and fine gravel, gray, wet, medium dense	7		
	10 14		11.0
-30			
651.60			
Fine to large stones and coarse sand, gray, wet, medium dense	9		
	11 14		11.0
-35			
647.60			
Weathered limestone, silt, some stone, light gray, wet, medium dense	5		
-40	9 13		12.0

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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/17/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-3
Station 916+84
Offset 46.00ft Rt
Ground Surface Elev. 683.60 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 678.1 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Weathered limestone, silt, some stone, light gray, wet, medium dense *(continued)*			
641.60			
Coarse sand and weathered limestone, gray, wet, medium dense	4		
-45	5 13		16.0
	3		
	5 9		12.0
633.60 -50			
End of Boring			
-55			
-60			

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)

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 10/9/2020	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SOIL BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DUPAGE	87	57
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:\2002\02001\024\Lead\Structures\SN022-0181 Final\Sheets\022181-60B95-022-BOR-2.dgn

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/17/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station
BORING NO. B-4
Station 916+75
Offset 48.00ft Rt
Ground Surface Elev. 684.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 678.0 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Silty clay, very stiff
683.00				
	3			Silty clay, some sand and stone, dark brown, moist, stiff
	4		15.0	
	4			
681.00				
	4			Stone and silty clay, some wood, dark brown, moist, loose
	4		16.0	
-5	5			
678.00				
	3			Peat, some silty clay, dark gray, wet, loose
	3		88.0	
676.00	4			
	2			Fine to coarse sand, some clay, gray, wet, loose
	3		17.0	
-10	2			
673.00				
	4			Sandy loam, gray, wet, medium dense
	5		20.0	
671.00	6			
	3			Fine to medium stone and silty clay, gray, wet, loose
	4		18.0	
-15	2			
668.00				
	4			Silty clay and stone, gray, wet, medium dense
	4		18.0	
666.00	6			
	4			Fine gravel and coarse sand, trace stone, gray, wet, medium dense
	7		9.0	
664.00 -20	10			
				Gravel and stone, some coarse sand, gray, wet, medium dense to dense
	4			
	4		8.0	
	6			
	20			
	23		11.0	
-25	13			
658.00				
	6			Fine to coarse sand and gravel, gray, wet, medium dense
	9		9.0	
	13			
	8			
	14		9.0	
-30	19			
	5			
	10		8.0	
-35	14			
648.00				
	4			Weathered limestone silt, light gray, wet, medium dense
	7		12.0	
-40	8			

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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/17/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station
BORING NO. B-4
Station 916+75
Offset 48.00ft Rt
Ground Surface Elev. 684.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 678.0 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Weathered limestone silt, light gray, wet, medium dense *(continued)*
	5			
-45	8		19.0	
638.00				
				Weathered limestone silt and stone, light gray, wet, medium dense
	7			
	9		11.0	
634.00 -50	13			
				End of Boring
-55				
-60				

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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/4/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station
BORING NO. B-5
Station 916+75
Offset 18.00ft Lt
Ground Surface Elev. 687.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 675.3 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				8" Asphalt over 9" crushed stone
685.90	3			
	4	3.1	28.0	Silty clay and topsoil, trace stone, dark gray, very stiff
	4	S		
684.30				
				Silty clay, some topsoil, dark gray and dark brown, stiff
	5			
	5	1.4	31.0	
682.30 -5	5	P		
				Peat, dark gray, some silty clay, stiff
	4			
	4	1.1	81.0	
679.80	5	P		
				Silty clay and sand, some gravel, dark brown, moist, loose
	3			
	4		15.0	
677.30 -10	5			
				Fine to coarse sand, some clay, trace gravel, gray, wet, medium dense
	4			
	5		18.0	
674.30	7			
				Gravelly sand, trace clay and stone, gray, wet, medium dense
	4			
	5		17.0	
-15	7			
671.30				
	5			Silt, some clay, gray, wet, medium dense
	7	1.9	19.0	
	9	P		
668.30				
	8			Silt, some stone, gray, wet, medium dense
-20	8		19.0	
	10			
				Silt, some stone, gray, wet, medium dense *(continued)*
666.30				
	7			Crushed limestone, some sand and silt, gray, wet, dense
	9		10.0	
664.30	12			
				Silty clay, trace stone and sand, gray, stiff
	3			
	4	1.6	20.0	
-25	6	P		
	5			
	7	1.1	25.0	
659.30	10	P		
				Weathered limestone, some sand and silt, gray, wet, medium dense to dense
	11			
	17		9.0	
-30	20			
655.30				
				Fine to coarse gravel, some sand and stone, gray, wet, dense to medium dense
	25			
	20		11.0	
-35	20			
	10			
	12		10.0	
-40	13			

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)

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SOIL BORING LOGS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	58
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:_2002\02201S.004\Cadd\Structural\SN022-0181 Final\Sheets\022018I 60B95 021 BOR 3.dgn

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/4/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-5
Station 916+75
Offset 18.00ft Lt
Ground Surface Elev. 687.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 675.3 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to coarse gravel, some sand and stone, gray, wet, dense to medium dense *(continued)*			
645.30			
Silt, some clay and weathered limestone, light gray, wet, medium dense to dense	7		
-45	12 13		12.0
	45		
-50	40 32	4.1 S	16.0
634.30			
Weathered limestone, light gray, wet, dense	25		
-55	40 48		10.0
	28		
-60	32 42		8.0

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Weathered limestone, light gray, wet, dense *(continued)*			
625.30			
Stone, weathered limestone, gray, wet, very dense			
623.80			
Refusal on bedrock	100/1"		19.0
-65			
End of Boring			
-70			
-75			
-80			

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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/12/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-6
Station 916+55
Offset 43.00ft Lt
Ground Surface Elev. 680.40 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 674.9 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silty clay and topsoil, some sand, dark gray, wet, medium stiff to soft	2		
	2 2	0.8 B	36.0
	1		
-5	1 2	0.6 P	65.0
	1		
	1 1	0.7 B	68.0
672.40			
Fine to coarse sand and silty clay, gray, wet, loose	1		
	1 2		19.0
670.40 -10			
Fine to coarse sand, gray, wet, medium dense	4		
	5 7		20.0
667.40			
Fine to coarse sand, some silt and clay, gray, wet, loose to medium dense	3		
	4 4		19.0
-15			
	4		
	5 8		15.0
662.40			
Fine to coarse sand and silty clay, gray, wet, loose	4		
	4 5		15.0
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to coarse sand and silty clay, gray, wet, loose *(continued)*			
659.40			
Silty clay, trace sand and stone, gray, stiff to medium stiff	4		
	5 5	1.3 P	21.0
	4		
-25	7 11	1.1 P	21.0
	4		
	12 14	0.8 B	21.0
652.40			
Silty clay and stone, gray, wet, medium desen	5		
	7 11		16.0
-30			
646.40			
Fine gravel, gray, wet, dense	5		
	19 35		5.0
-35			
643.40			
Weathered limestone, light gray, wet, very dense	100/5"		
			8.0
-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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/12/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-6
Station 916+55
Offset 43.00ft Lt
Ground Surface Elev. 680.40 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 674.9 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Weathered limestone, light gray, wet, very dense *(continued)*			
	20		
-45	30 45		12.0
633.40			
Weathered limestone silt, light gray, wet, dense	50		
	20 25		16.0
-50			
628.40			
Weathered limestone, light gray, wet, very dense	30		
	39 54/1"		10.0
625.40 -55			
Cored rock, dolomite, racine formation Recovery 100% RQD 99%			
	100/3"		
-60			13.0

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Cored rock, dolomite, racine formation Recovery 100% RQD 99% *(continued)*			
615.40 -65			
End of Boring			
-70			
-75			
-80			

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)

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SOIL BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	59
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:\2007\020019.024\CaddStructural\SW022-0181 Final\Sheet\022B181 60B95 022-B0R 4.dgn

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/3/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station
BORING NO. B-7
Station 916+15
Offset 19.00ft Lt.
Ground Surface Elev. 687.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 677.3 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4" Asphalt over concrete and gravel			
686.30			
Silty clay, some stone, brown, very stiff	3		
	4	2.6	11.0
	4	P	18.0
684.30			
Silty clay, trace stone and topsoil, brown and rust-brown, very stiff	2		
	2	3.1	19.0
-5	2	S	
681.30			
Silty clay and sand, some topsoil, loose	2		
	2		
	3		
	2		
	3		20.0
▼-10	3		
676.30			
Silty clay, some topsoil and sand, moist, dark gray, loose	2		
	2	2.1	24.0
	2	P	
	1		
	1	1.4	17.0
-15	2	P	
671.30			
Fine to coarse sand, some clay, gray, wet, loose	3		
	3		16.0
	4		
	2		
	3		20.0
667.30 -20	3		
Silt, some sand, gray, wet, loose	2		
	2	1.8	23.0
	3	P	
664.30			
Stone and gravel, some silt, gray, wet, medium dense	11		
	5		12.0
-25	7		
661.30			
Silty clay, trace stone, gray, very stiff	2		
	1	2.6	19.0
	5	P	
659.30			
Silty clay, trace stone, gray, stiff	3		
	4	1.4	20.0
-30	4	P	
	4		
	6	1.2	20.0
-35	11	B	
651.30			
Silty clay, some stone, gray, very stiff	13		
	14	2.4	13.0
-40	17	P	

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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/3/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station
BORING NO. B-7
Station 916+15
Offset 19.00ft Lt.
Ground Surface Elev. 687.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 677.3 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silty clay, some stone, gray, very stiff *(continued)*			
645.30			
Weathered limestone, some silt, light gray, wet, dense	18		
	56		18.0
-45	37		
640.30			
Weathered limestone silt, some stone, light gray, wet, dense	37		
	32		15.0
637.30 -50	36		
End of Boring			

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)

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/3/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station
BORING NO. B-8
Station 916+06
Offset 20.00ft Lt.
Ground Surface Elev. 687.20 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 677.2 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8" Asphalt over crushed stone			
685.70	4		
Silty clay, some stone, brown, very stiff	5	2.6	22.0
	8	P	
684.20			
Silty clay, some topsoil and stone, gray and dark gray, wet, medium stiff	3		
	3	0.8	28.0
-5	4	B	
681.20			
Silty clay, some organics, gray and black, medium stiff	2		
	2	0.8	32.0
	2	B	
679.20			
Silty clay, some stone, trace topsoil, gray, stiff	2		
	3	1.2	21.0
▼-10	5	B	
676.20			
Fine to coarse sand, some gravel and clay, gray, moist to wet, loose	0		
	3		14.0
	3		
	3		
	3		17.0
-15	5		
671.20			
Fine to coarse sand, some gravel, gray, wet, loose	4		
	3		15.0
	5		
669.20			
Silt, some clay, gray, wet, loose	3		
	3	2.6	21.0
-20	3	P	
Silt, some clay, gray, wet, loose *(continued)*	1		
	2	1.4	22.0
	4	P	
664.20			
Fine to coarse sand, gray, wet, medium dense	5		
	7		14.0
-25	15		
	29		
	35		12.0
659.20	29		
Silty clay, gray, stiff	4		
	5	1.1	21.0
-30	5	P	
	2		
	10	1.9	13.0
-35	10	P	
	4		
	3	1.1	15.0
-40	5	P	

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)

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SOIL BORING LOGS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DUPAGE	87	60
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:\2007\02B019.004\Cadd\Structural\SN022-0181 Final\Sheet\022B181-60B95-B23-BOR-5.dgn

Illinois Department of Transportation
Division of Highways
Applied GeoScience, Inc.

SOIL BORING LOG

Date 12/3/07

ROUTE FAP 870 (IL 53) DESCRIPTION Over the East Branch of the DuPage River LOGGED BY Kabir Ahmad

SECTION 533X LOCATION SEC. 13, TWP. 39 N, RNG. 10 E

COUNTY DuPage DRILLING METHOD Mud Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 022-0181 (prop.) 022-0077 (exist.)
Station

BORING NO. B-8
Station 916+06
Offset 20.00ft Lt
Ground Surface Elev. 687.20 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 677.2 ft ▼
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silty clay, some stone, gray, very stiff to stiff *(continued)*				
645.20				
Weathered limestone, gray, wet, very dense		10		
	-45	50/1"		10.0
640.20				
Weathered limestone, trace silt, light gray, wet, medium dense		5		
		7	2.6	15.0
637.20	-50	10	P	
End of Boring				
	-55			
	-60			

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)

FOUNDATION ENGINEERING, INC.
STRUCTURE BORING LOG

Page 1 of 1
Date 7/24/96

ROUTE DESCRIPTION Scour Study Various Location, Work Order No. 11, PSB 94/5

SECT. STRUCT. NO. 022-0077 DRILLED BY BP

COUNTY DuPage LOCATION IL 53/E Branch DuPage Riv. S. 13, TWP. 39N, RNG. 10E

Boring No. B-1'
Station 705+43
Offset 18.0 ft South
Surface Elev. 687.3 ft

Surface Water Elev.
Groundwater Elev.:
when drilling
at Completion
after Hrs.

	DEPTH	BLOWS	Qu tsf	W %
Stiff & very stiff brown gray & black mixed clay & organic FILL		5 5 7		13
		2 3 4	1.5 P	26
	-5			
		5 6 8	2.2 P	50
		2 2 5	1.2 P	14
676.80	-10			
Med. dense gray SILT		9 5 6		20
		5 6 7		14
	-15			
		7 8 10		8
		6 6 6		22
663.30	-20			
Stiff gray SILTY CLAY		9 8 7		8
		9 10 14	1.9 P	20
	-25			

	DEPTH	BLOWS	Qu tsf	W %
		9 10 11	1.7 P	19
		5 7 9	1.8 P	20
656.80	-30			
Med. dense to very dense light gray med. coarse SAND & GRAVEL		17 20 23		7
		16 12 14		9
	-35			
		31 35 31		8
		13 15 14		8
	-40			
		40 57 10		8
		20 32 46		6
641.80	-45			
Extremely dense mixed GRAVEL & BROKEN ROCKS		100/3"		5
		50 28 82		4
637.30	-50			
END OF BORING				

SPT. (N) = Sum of last two blow values in sample.
(Qu) B = Bulge S = Shear P = Penetrometer

STR-24 OF 26

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

SOIL BORING LOGS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DUPAGE	87	61
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

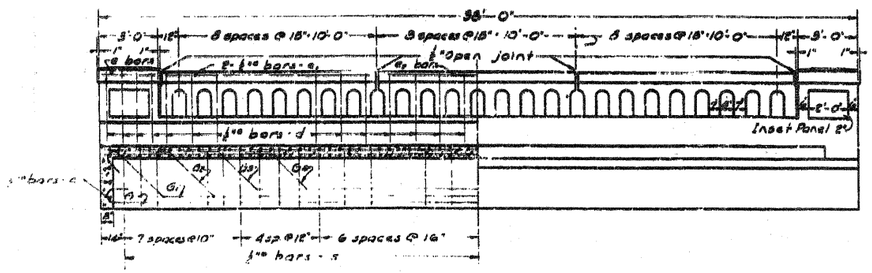
FILE NAME = P:\2007\02B019.201\Cadd\Structural\SN022-0181 Final\Sheet\022B181-60B95-B24-BOR-6.dgn

B.V. #6.5 - P.N. 8W in 12" Poplar - Lt. 2.0. 706+10
Elevation - 684.18
No Existing Structure.

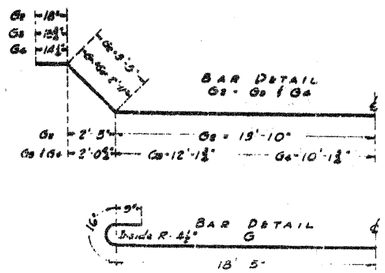
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

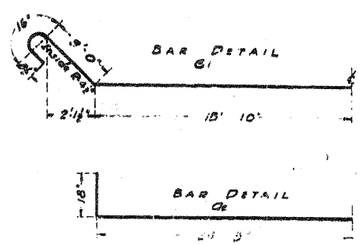
ROUTE	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
53	533-X	DuPage	29	26
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

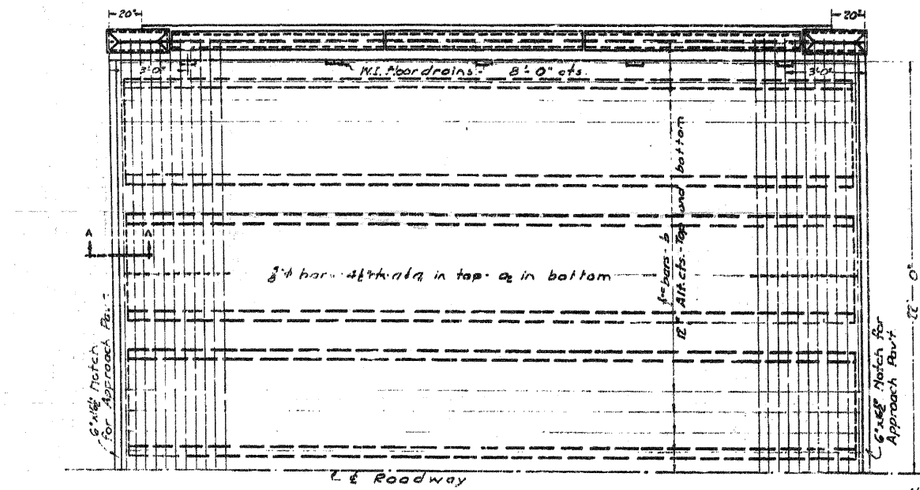
SHEET NO. 1
2 SHEETS

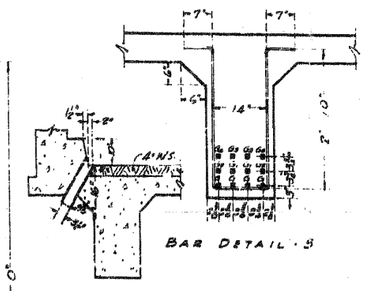


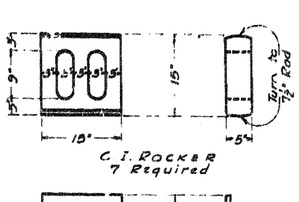
HALF LONGITUDINAL SECTION HALF ELEVATION



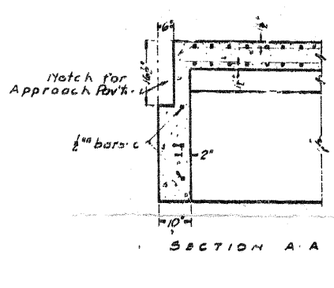








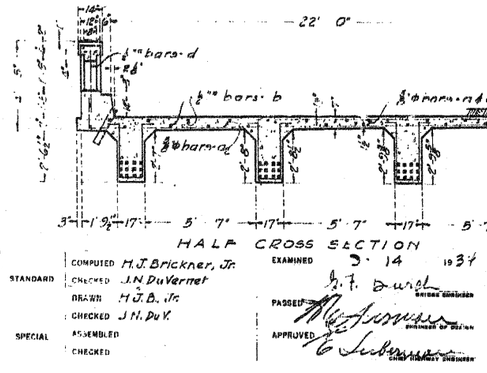
Note: Rockers & Plates shall be given one shop coat of blue lead paint and two field coats of white lead paint. Surface of plates adjacent to Rockers shall be planed.



BILL OF MATERIAL

BAR	No.	SIZE	LENGTH
c	100	½"	21'-0"
G1	100	"	28'-0"
G2	200	"	25'-9"
b	98	½"	19'-6"
d	68	"	3'-6"
e	8	"	3'-0"
e1	8	"	10'-6"
e2	4	"	9'-6"
G	28	½"	41'-0"
G1	14	"	41'-5"
G2	14	"	37'-6"
G3	14	"	32'-9"
G4	14	"	28'-6"
S	245	½"	8'-0"
C	12	½"	22'-6"

Class X Conc - Rail - Cu. Yds.	4.7
Class X Conc - Slab - Cu. Yds.	82.6
Reinforcing Steel -	Lbs. 27752
C.I. Rockers -	Lbs. 1715
Steel Plates -	Lbs. 480
Floor Drains -	ea. 10



STANDARD	COMPUTED	M.J. Brickner, Jr.	EXAMINED: D. 14 1937
	CHECKED	J.N. DuVernet	
	DRAWN	M.J.B. Jr.	PASSED:
	CHECKED	J.N. DuV.	
SPECIAL	ASSEMBLED		APPROVED:
	CHECKED		

Note:
Class X concrete shall be used throughout.
All reinforcing steel shall be wired securely in place before concrete is poured.

EAST BRANCH OF DUPAGE RIVER
S.B.I. Rts. 53 - Sec. 533-X
DUPAGE COUNTY
STA. 706+88

FOR INFORMATION ONLY

STR-25 OF 26

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

EXISTING BRIDGE PLANS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPAGE	87	62
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

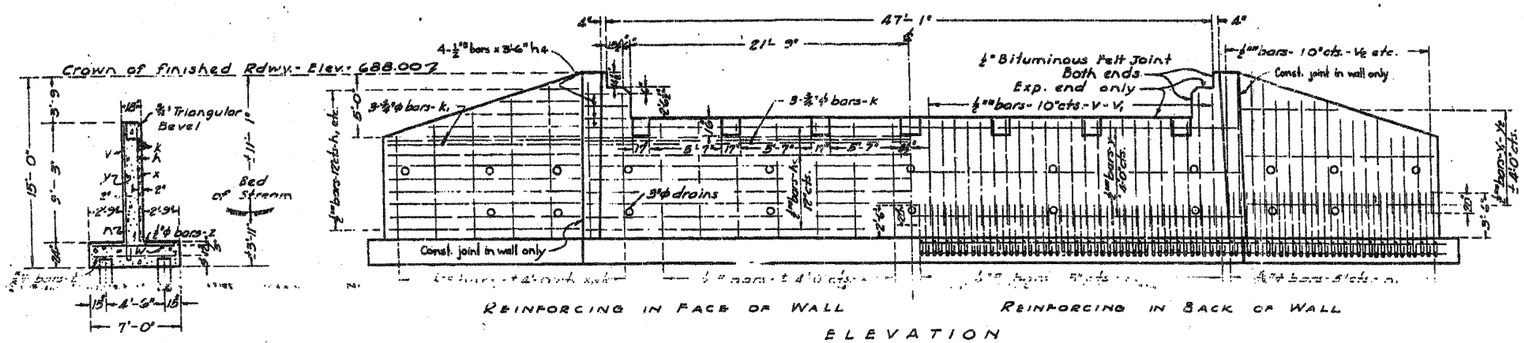
FILE NAME = P:\2007\02809.001\Cadd\Structural\SN02-0181_Final\Sheet\02809181_60B95_B25-EXBR.dgn

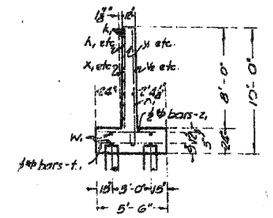
B.M. = "68 - R.N. & W. in 12" Poplar - 1.2 ft Sta. 706+10 - Elev. 684.18

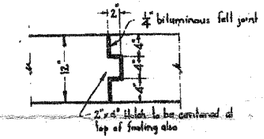
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

CROSSROADS POINTS NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
53	533-X	DuPage	27	27
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

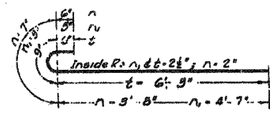
SHEET NO. 2
2 SHEETS



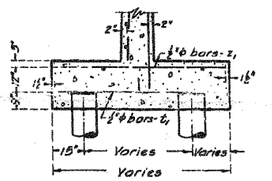




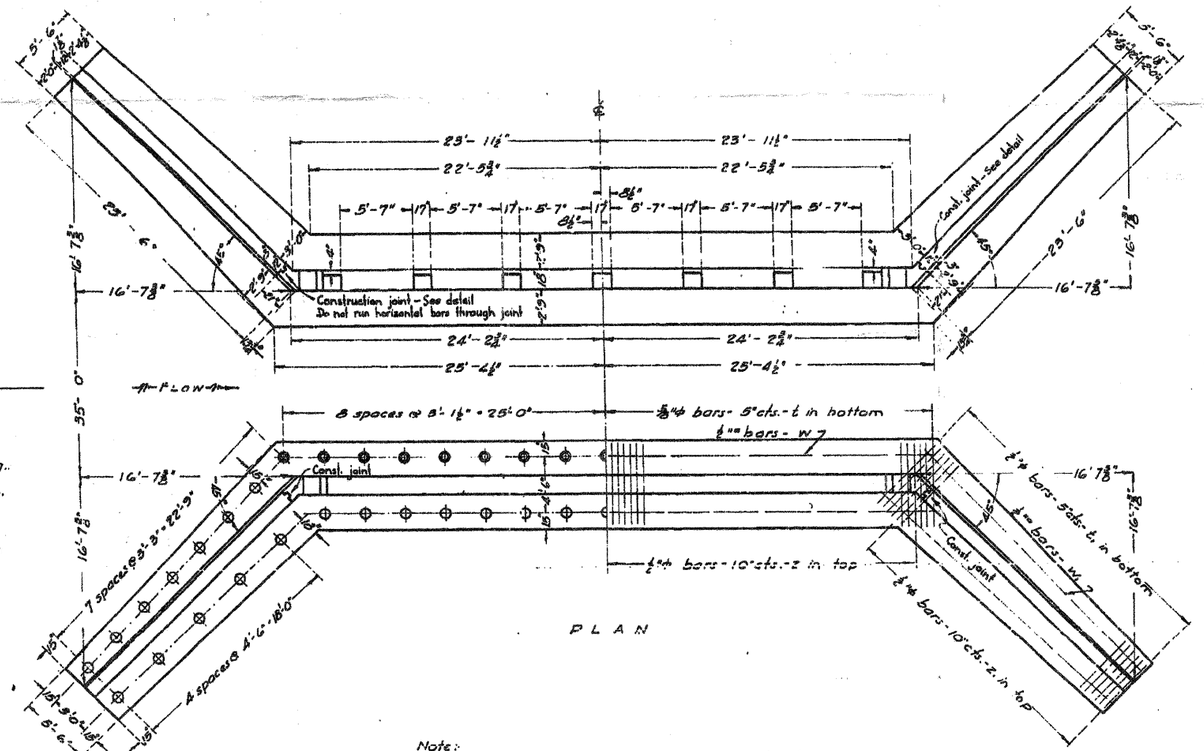
DETAIL OF CONSTRUCTION JOINT AT TOP OF WING WALL



BAR DETAIL - n, n, & t



SECTION THROUGH WING FOOTING



○ Denotes 10 ton untr. piling. 78 Required.
◉ Denotes 15 ton untr. piling. 34 Required.

Contractor shall drive one test pile as directed by the Engineer before ordering piling.

Note:
Class X concrete shall be used throughout.
All reinforcing steel shall be wired securely in place before concrete is poured.

BILL OF MATERIAL

BAR	No	SIZE	LENGTH
V	106	½"ø	8'-3"
V1	8	"	10'-6"
V2	12	"	10'-9"
V3	28	"	9'-6"
V4	32	"	8'-0"
V5	20	"	7'-0"
V6	16	"	6'-0"
X	20	½"ø	9'-0"
X1	16	"	11'-6"
X2	8	"	9'-6"
X3	4	"	8'-0"
n	36	½"ø	26'-9"
n1	32	"	21'-6"
n2	8	"	18'-0"
n3	8	"	10'-0"
K	12	⅝"ø	27'-3"
Y	12	½"ø	6'-3"
Y1	8	"	21'-6"
Y2	4	"	12'-0"
K1	12	⅝"ø	21'-6"
n	228	½"ø	4'-9"
n1	220	½"ø	5'-3"
t	244	"	7'-6"
z	116	½"ø	6'-9"
z1	236	"	5'-3"
z2	108	"	5'-3"
W	16	½"ø	26'-6"
W1	16	"	24'-9"
h4	16	"	3'-6"

Class X Conc. - C.Y. Yds. 1829
Reinforcing Steel Lbs. 11,520
Test Pile Ea. 1
Untreated Piling - Lin. Ft. 2340

STANDARD	COMPUTED M.J. BRICKNER, JR.	EXAMINED 9-14 1934
	CHECKED J.N. DuVernet	PASSED
	DRAWN M.J.B., JR.	APPROVED
	CHECKED J.N.DuV.	
SPECIAL	ASSEMBLED	
	CHECKED	

Rev. 1-18-35 - Const. joints added -

FOR INFORMATION ONLY

EAST BRANCH OF DUPAGE RIVER
S.B.I. RTE 53 - SEC. 533 X
DUPAGE COUNTY
STA. 705+88

STR-26 OF 26

JACOBS

	DESIGNED - LJH	REVISED -	
	DRAWN - FJD	REVISED -	
PLOT SCALE =	CHECKED - JSS	REVISED -	
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

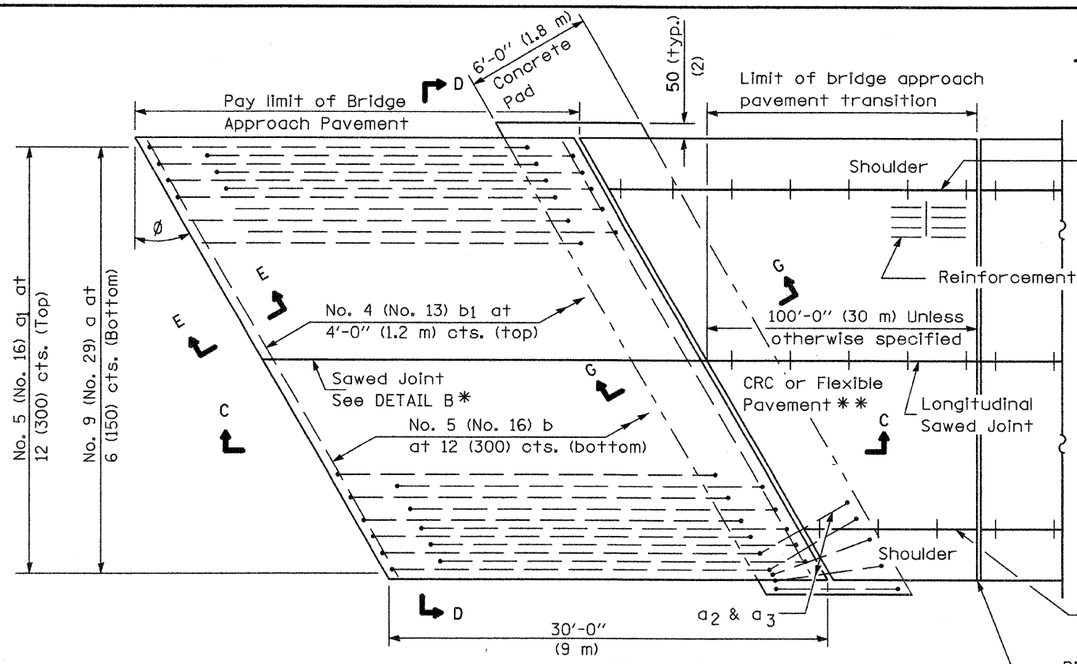
EXISTING BRIDGE PLANS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

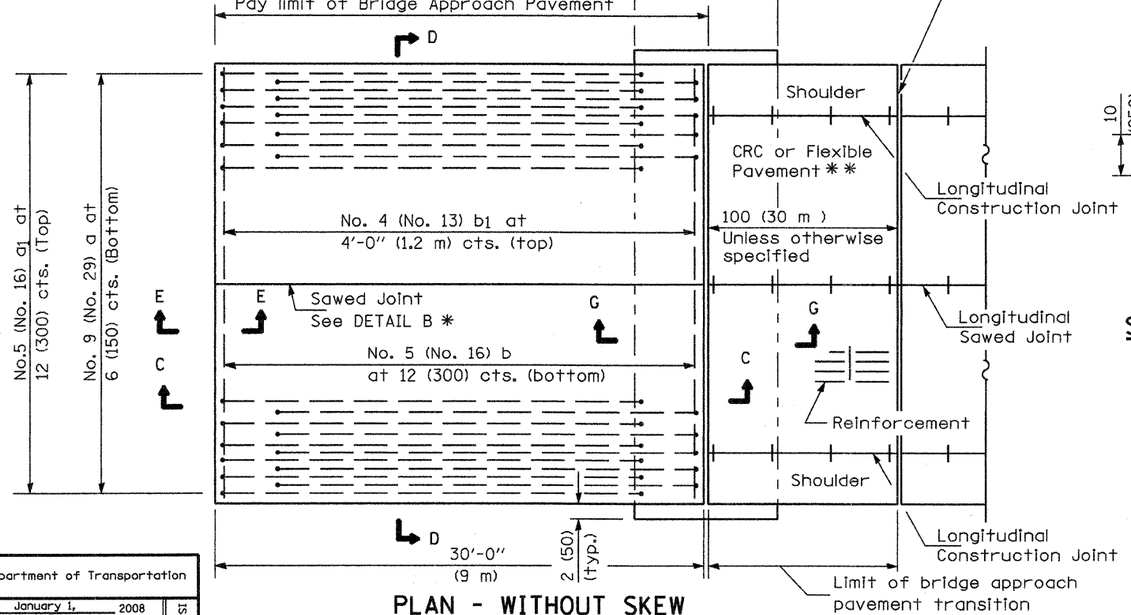
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533-X-B-R-1	DuPage	87	63
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:\2007\07B19.00A\Cadd\Structural\SN07219181 Final\Sheet\07219181-60B95-026-EXBR.dgn

NEW CONSTRUCTION



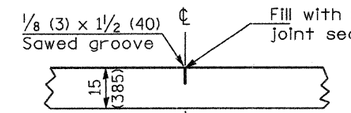
PLAN - WITH SKEW



PLAN - WITHOUT SKEW

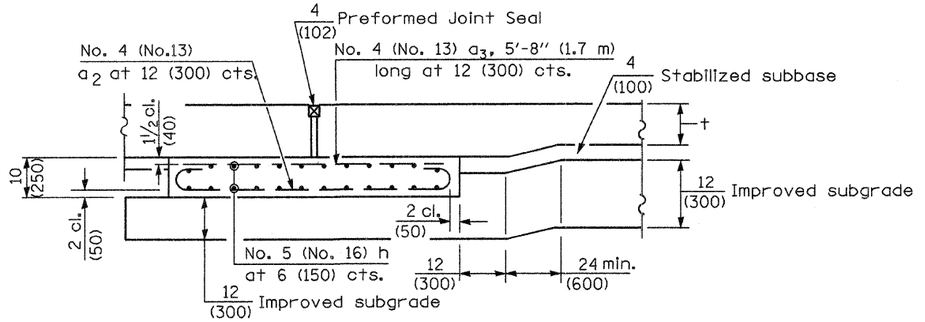
* Saw ℄ or lane edge if poured two or more lane widths at a time.

** Omit Reinforcement, tie bars and Long. sawed Jt. for Flexible Pavement.



DETAIL B*

(Reinforcement Not Shown)

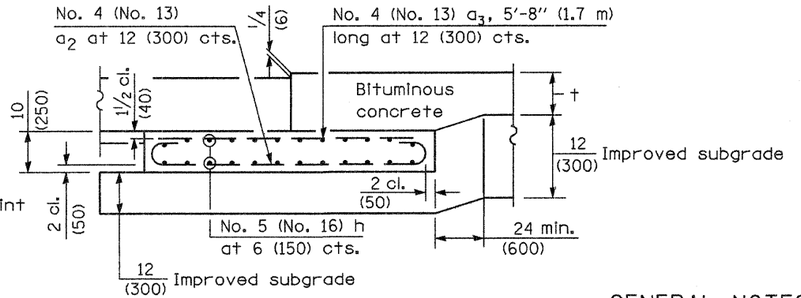


SECTION G-G - RIGID PAVEMENT

(Showing reinforcement)

Rigid Pavement only:

Wide Flange Beam Terminal Joint (See DETAIL AT BEAM - Standard 421101 or 421106) or 2 (50) Trans. Exp. Joint as detailed on Standard 420001.



SECTION G-G - FLEXIBLE PAVEMENT

(Showing reinforcement)

GENERAL NOTES

THICKNESS-"t"=Thickness of Pavement.

See Standard 421001 for reinforcement details not shown.

See Standard 420001 for joint details not shown.

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

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2008
Lee E. Han
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

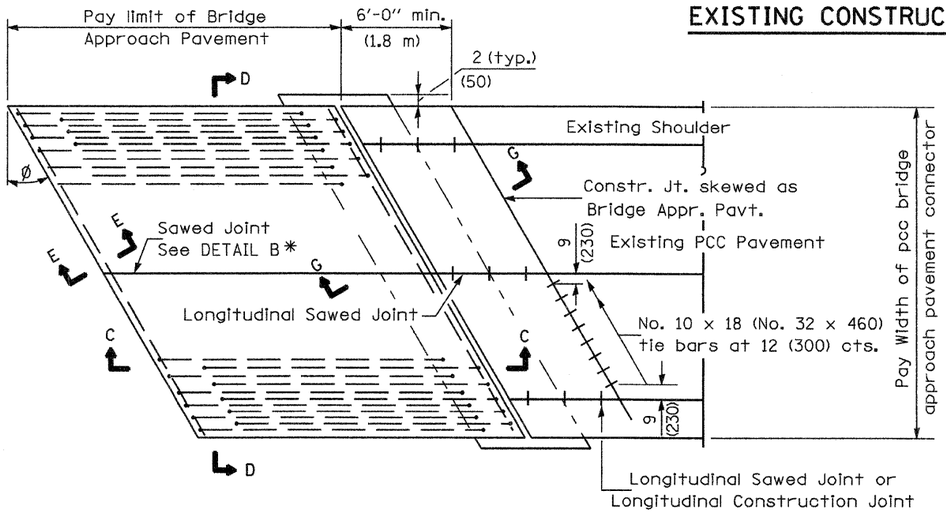
DATE	REVISIONS
1-1-08	Switched units to English
	(metric). Moved rebar epoxy
	coat note to Standard Spec.
1-1-04	Rev. size of Trans. Exp.
	Jt. and soft converted
	metric reinf.

BRIDGE APPROACH PAVEMENT

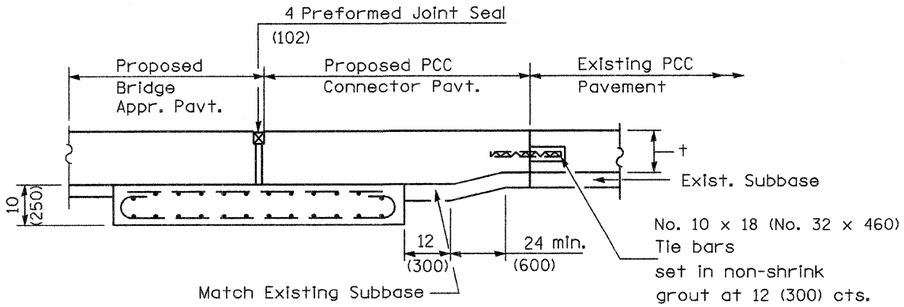
(Sheet 1 of 4)

CONTRACT 60895 Sheet 63A.

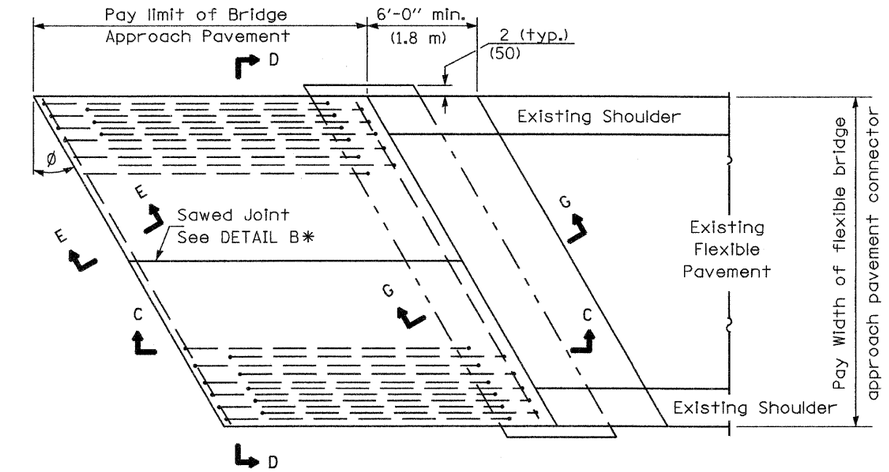
EXISTING CONSTRUCTION



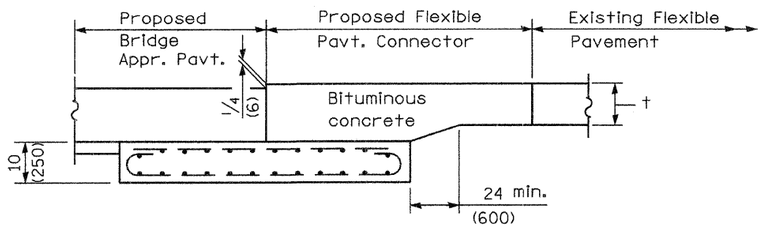
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



SECTION G-G - RIGID PAVEMENT



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)



SECTION G-G - FLEXIBLE PAVEMENT

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

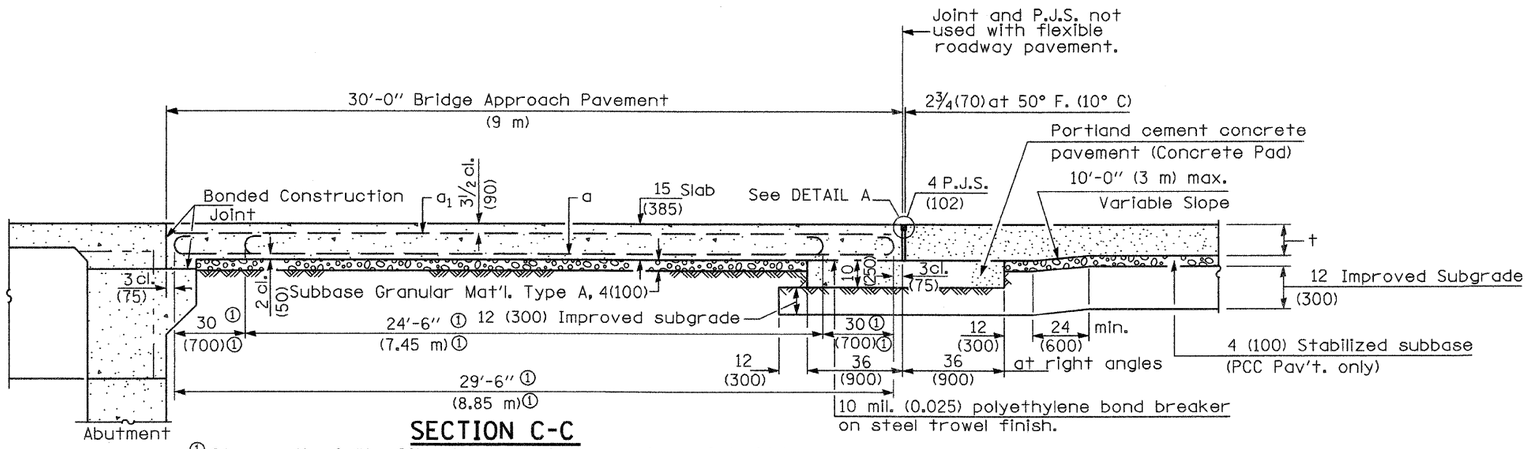
APPROVED January 1, 2008
Lynn E. Hess
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT

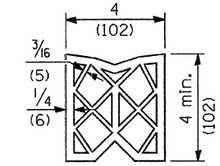
(Sheet 2 of 4)

CONTRACT 60895 Sheet 638.

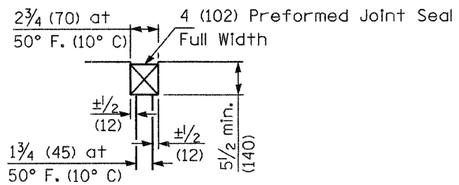


SECTION C-C

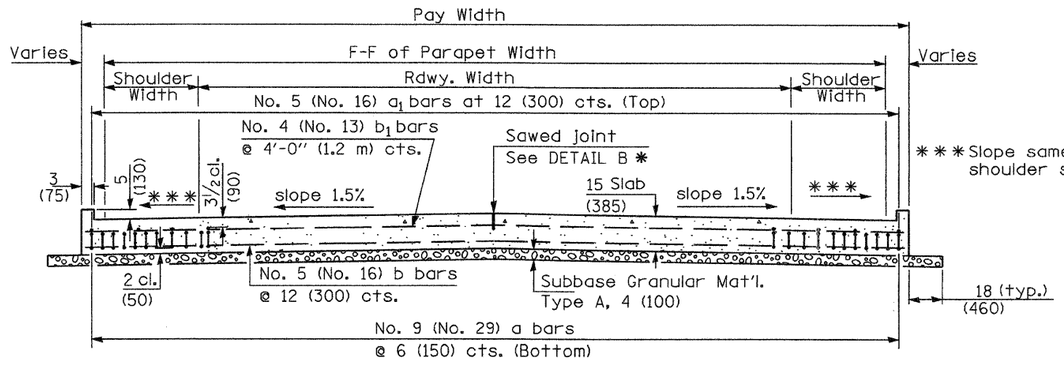
① Stagger No. 9 (No. 29) a bars as shown on plan - full width



PREFORMED JOINT SEAL



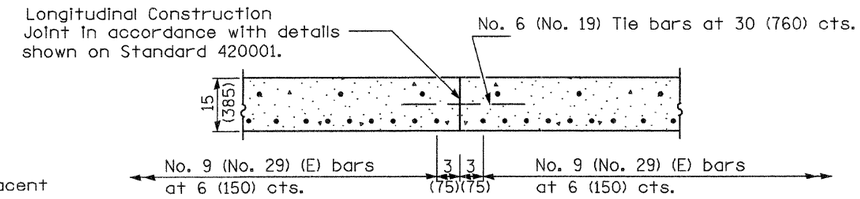
DETAIL A



*** Slope same as adjacent shoulder slope.

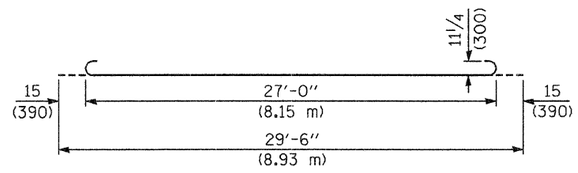
SECTION D-D

(See Plan for Dimensions not shown)

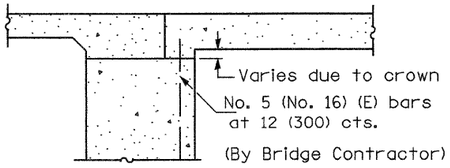


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.

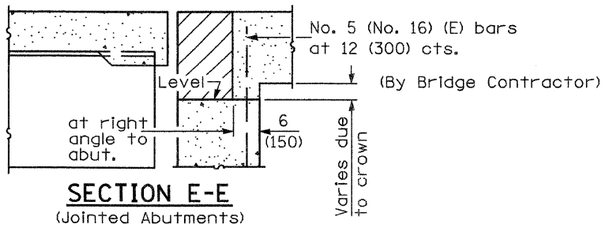


BAR a



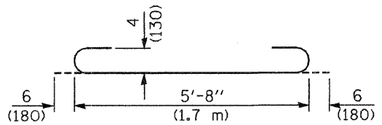
SECTION E-E

(Integral Abutments)



SECTION E-E

(Jointed Abutments)



BAR a2

DESIGN STRESSES

fy = 60,000 p.s.i. (400 MPa)
f'c = 3,500 p.s.i. (24 MPa)
n = 8.5

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

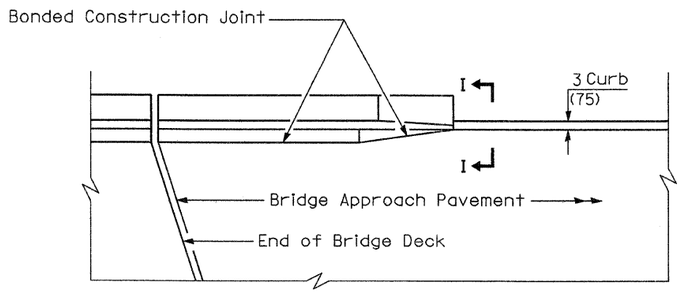
APPROVED January 1, 2008
Gene E. Hou
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

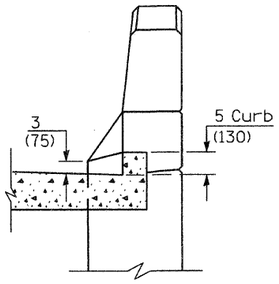
BRIDGE APPROACH PAVEMENT

(Sheet 3 of 4)

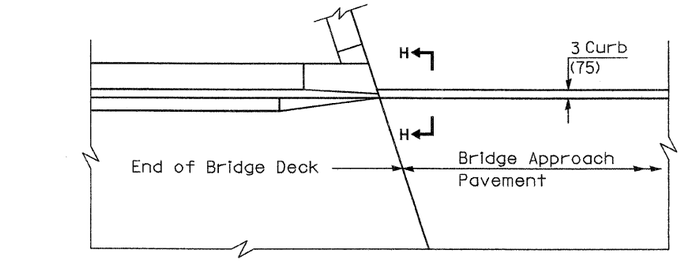
CONTRACT 60895 sheet 63C.



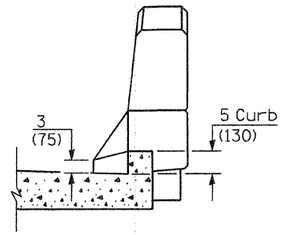
PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT



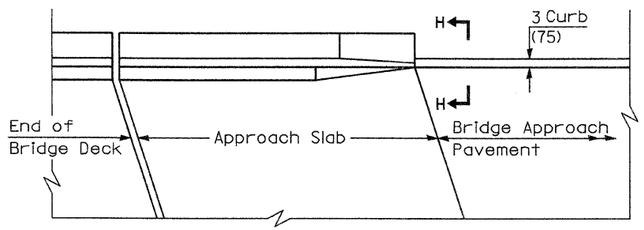
SECTION I - I



PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT



SECTION H - H



PARAPET TO CURB TRANSITION
VAULTED ABUTMENT

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

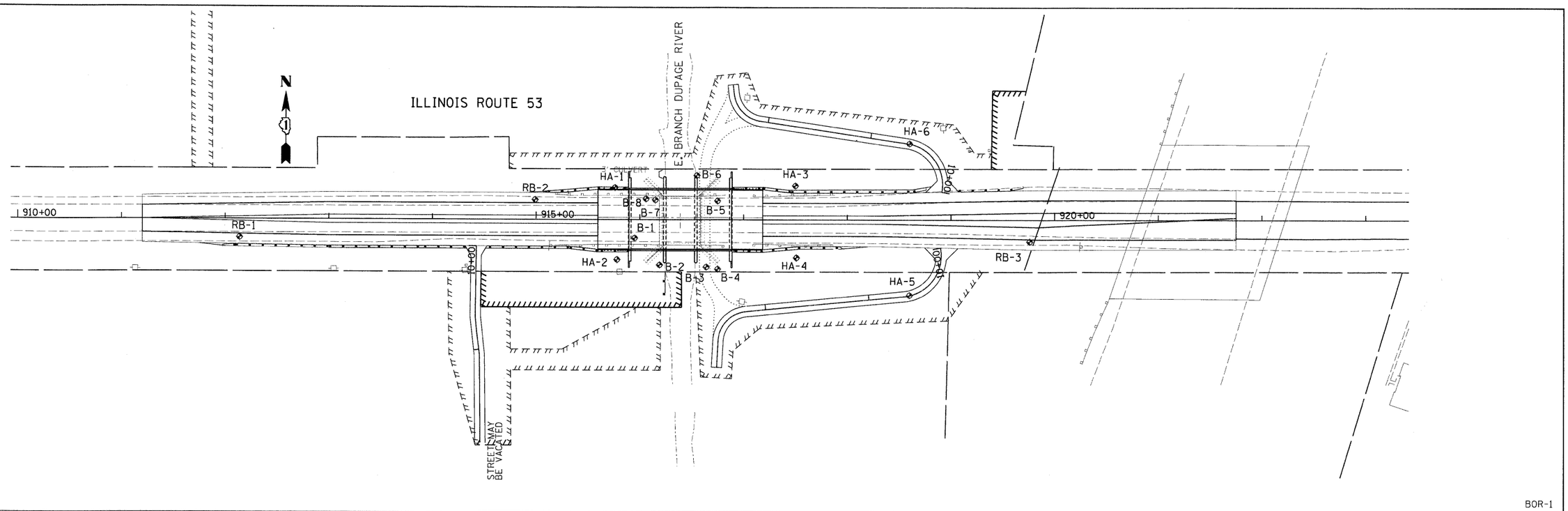
APPROVED January 1, 2008
Lee E. Han
ENGINEER OF DESIGN AND ENVIRONMENT

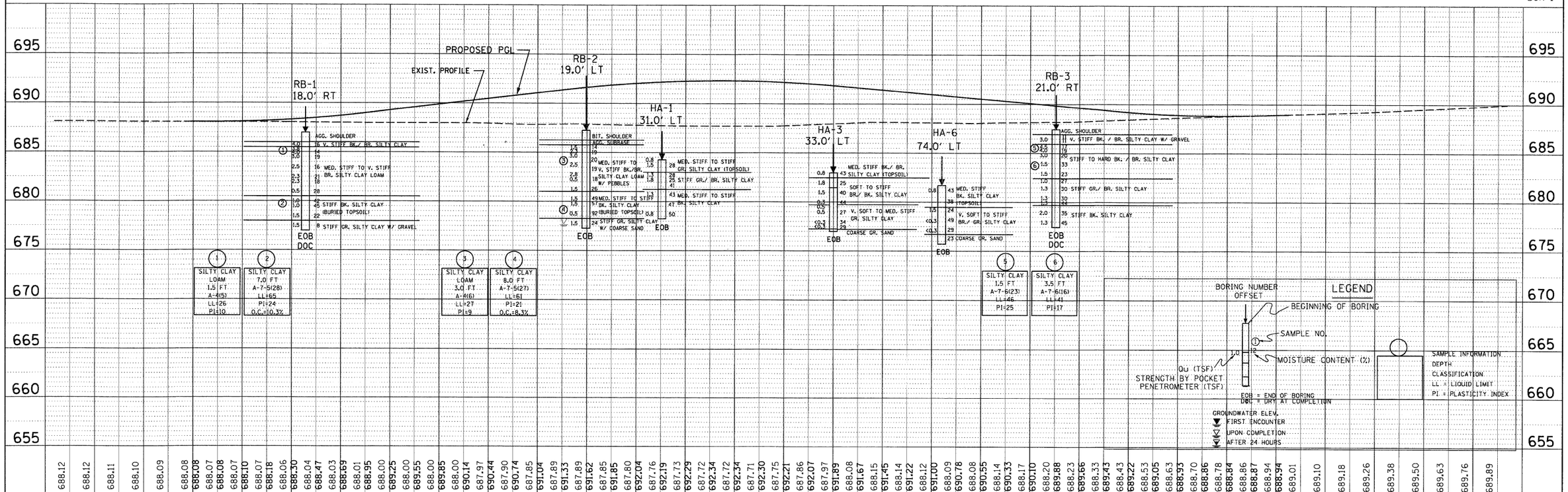
ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT

(Sheet 4 of 4)

CONTRACT 60895 Sheet 630.





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PREPARED BY IDOT	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 53 OVER THE EAST BRANCH DUPAGE RIVER
SOILS PROFILE (WITH NORTHSIDE HAND AUGERS)

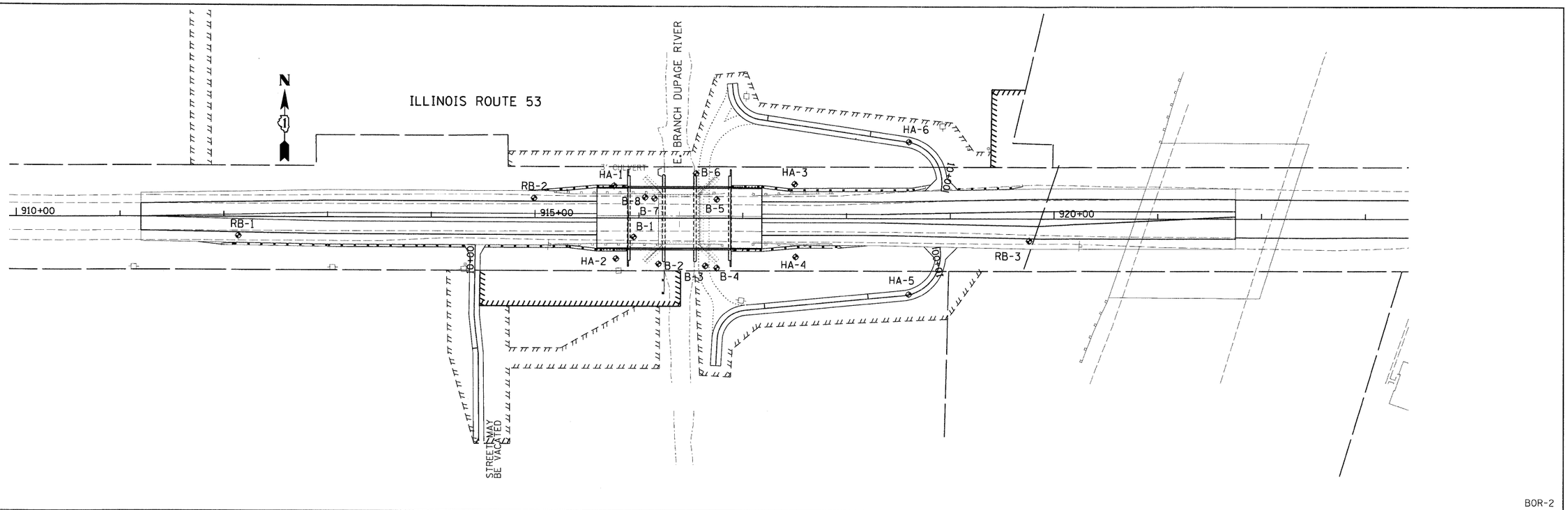
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533X	DUPAGE	87	64
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN

BY	DATE

SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
STRUCTURE NO. 016-0040
CHECKED
CADD FILE NAME

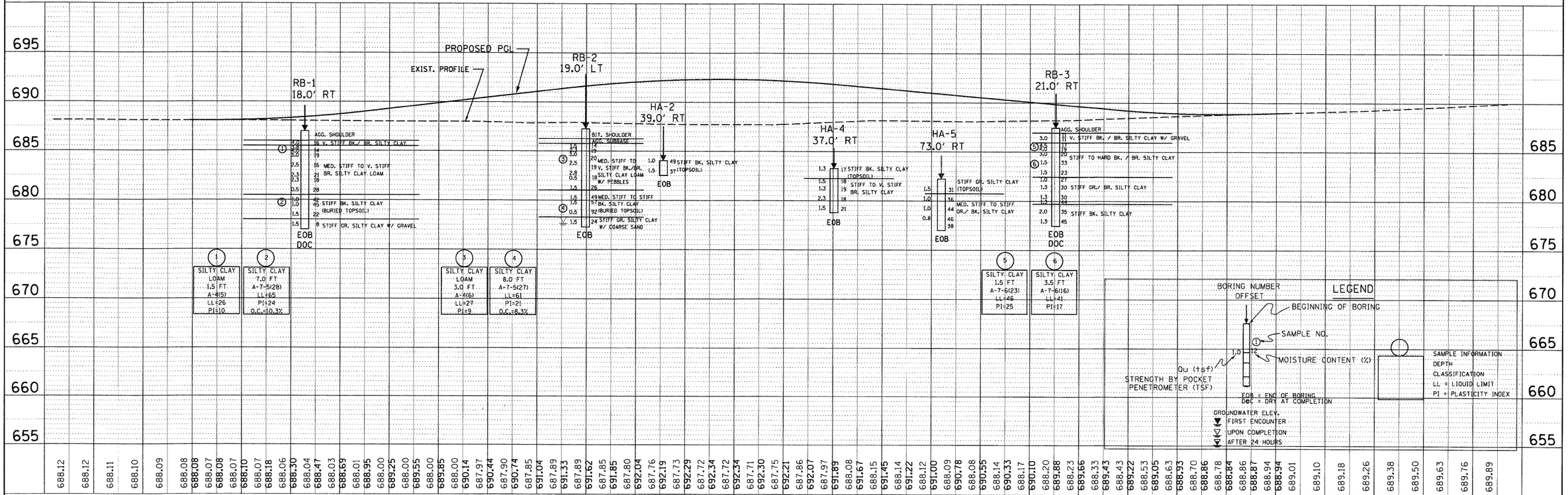


BOR-2

PROFILE

BY	DATE

SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
STRUCTURE NO. 016-0040



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

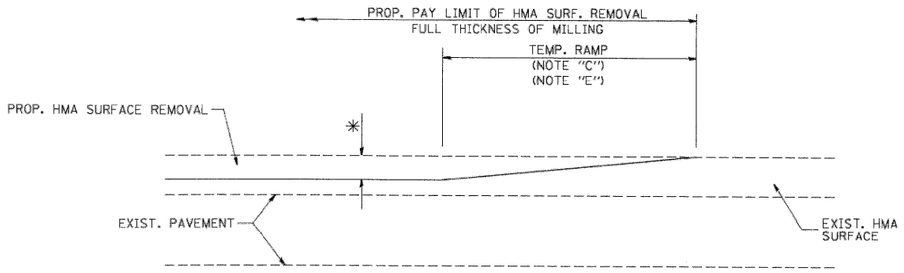
ILLINOIS ROUTE 53 OVER THE EAST BRANCH DUPAGE RIVER
SOILS PROFILE (WITH SOUTHSIDE HAND AUGERS)

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533X	DUPAGE	87	65
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B95

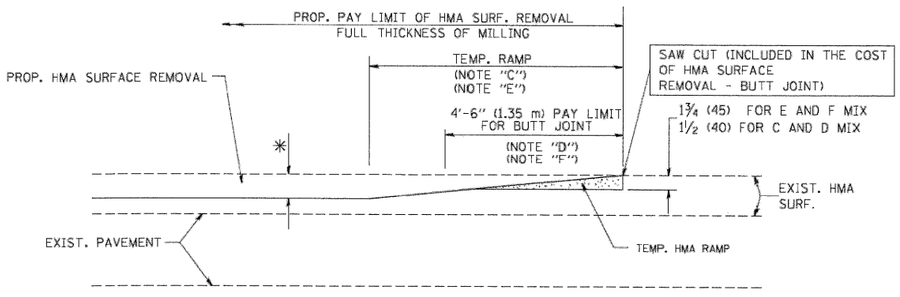
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	66
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

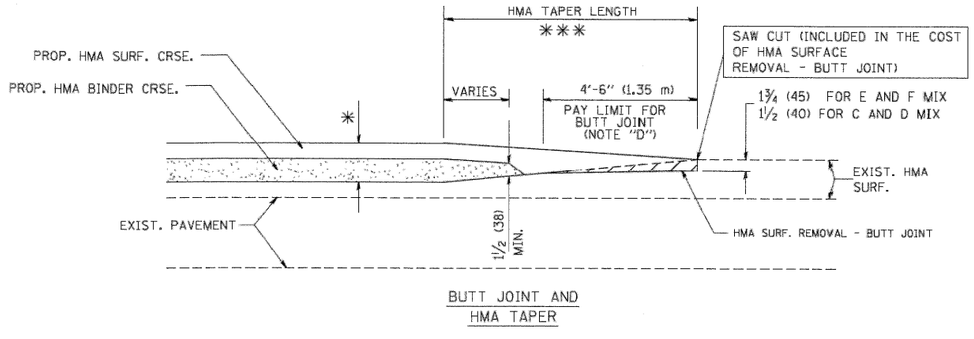


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

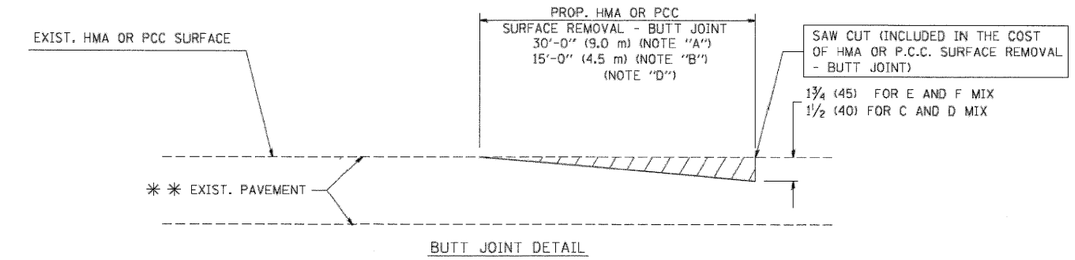
OPTION 2

TYPICAL TEMPORARY RAMP

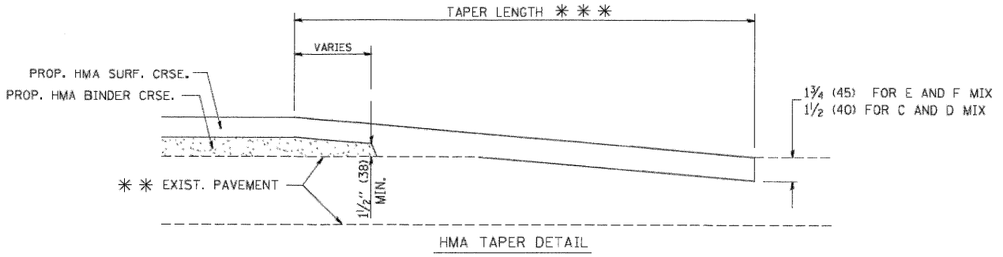


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

* * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

DIST-1

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".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE
HORIZ.

DRAWN BY

CHECKED BY

BD400-05 (VI=BD32)

PLOT DATE = 3/5/2007
FILE NAME = K:\dcstech\bd32.dgn
PLOT SCALE = 4.0000 '/ In.
USER NAME = bauerdl

CONTRACT NO. 60B95

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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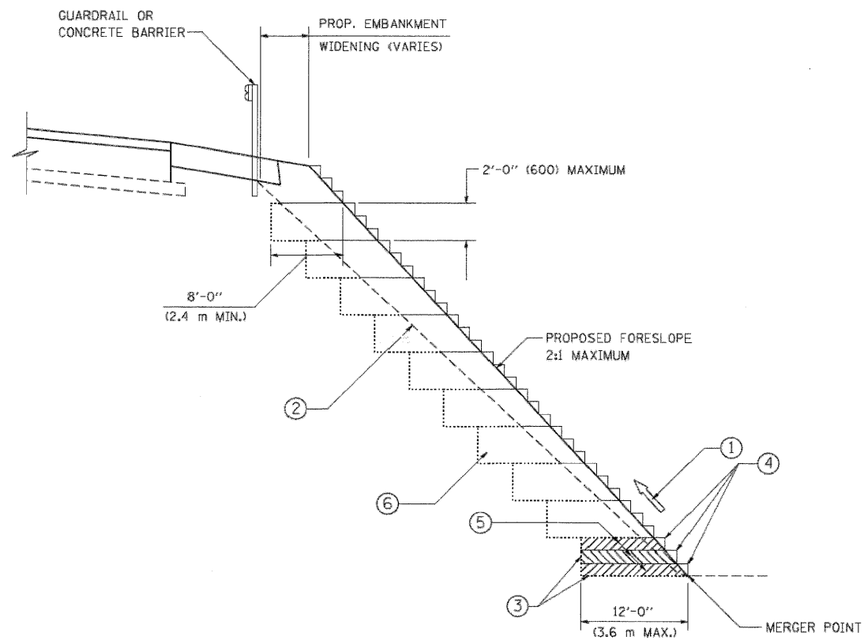
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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.

DIST-2

REVISIONS NAME	DATE
	06/16/04

ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT
WIDENING

SCALE: VERT. NONE
HORIZ.

DRAWN BY: CADD

CHECKED BY: S.E.B.

BD-51

PLOT DATE = 3/5/2007
FILE NAME = k:\data\roy\bd51.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = bauerd1

CONTRACT NO. 60B95

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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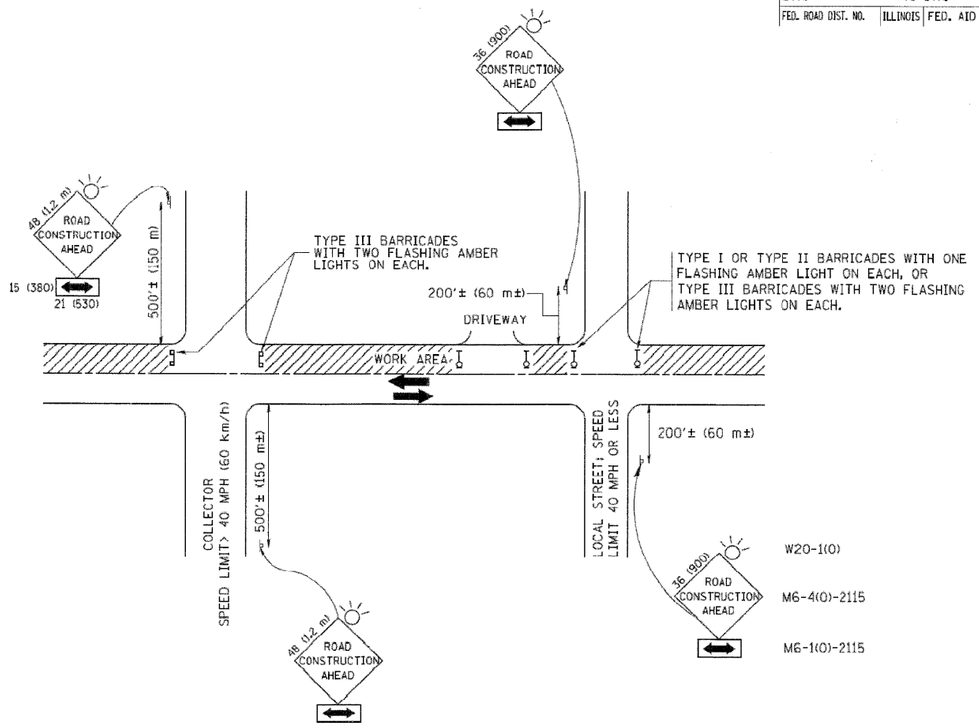
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

DIST-3

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE

DRAWN BY

CHECKED BY

TC-10

PLOT DATE = 3/6/2007
FILE NAME = c:\projects\tc10.dgn
PLOT SCALE = 50.000 '/ IN.
USER NAME = baumrdl

CONTRACT NO. 60B95

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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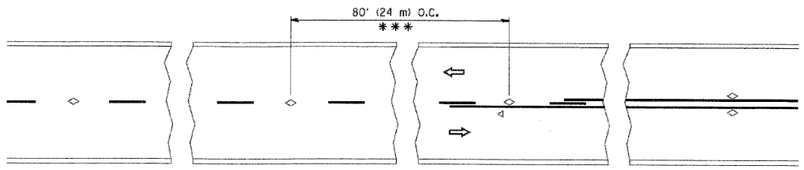
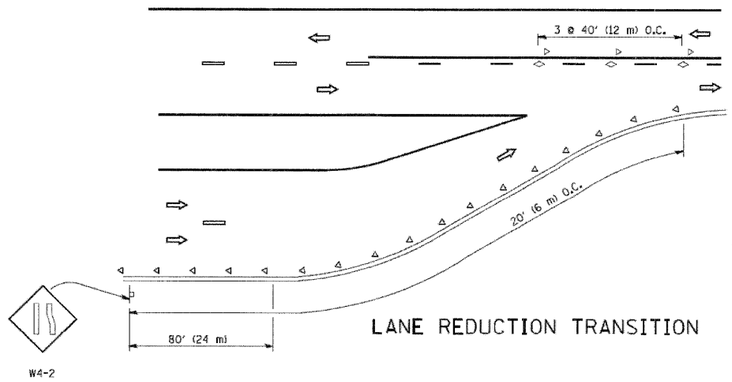
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

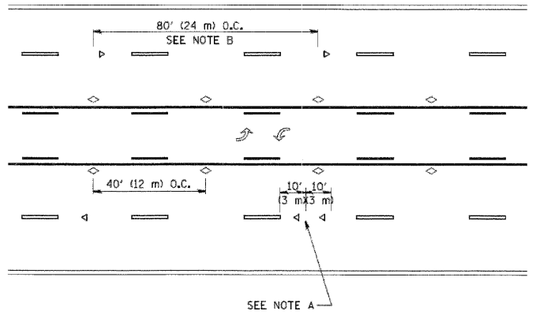


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

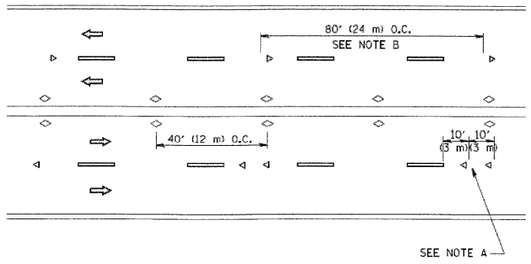
TWO-LANE/TWO-WAY



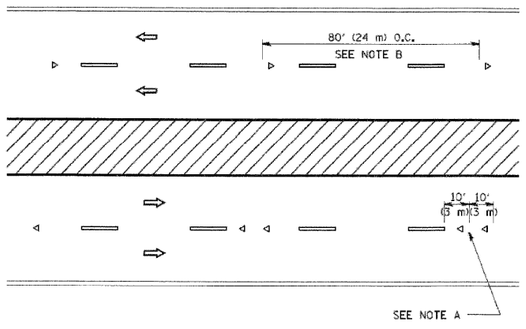
LANE REDUCTION TRANSITION



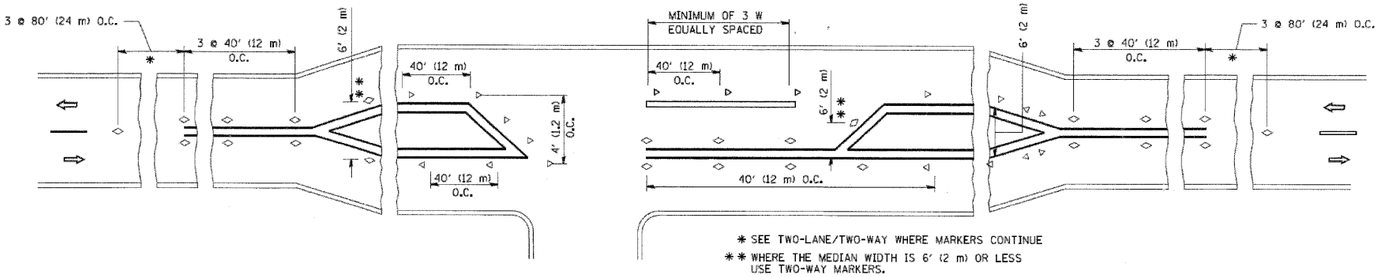
TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

LEFT TURN

GENERAL NOTES

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

LANE MARKER NOTES

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.

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

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

DESIGN NOTES

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

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

DIST-4

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-11

PLOT DATE = 3/6/2007
FILE NAME = K:\dsstd\tc11ldgn
PLOT SCALE = 50.000 ' / IN.
USER NAME = bauerdl

CONTRACT NO. 60B95

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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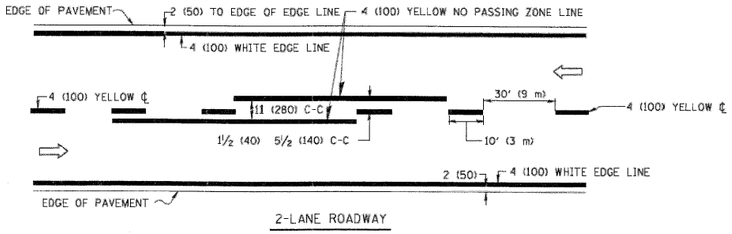
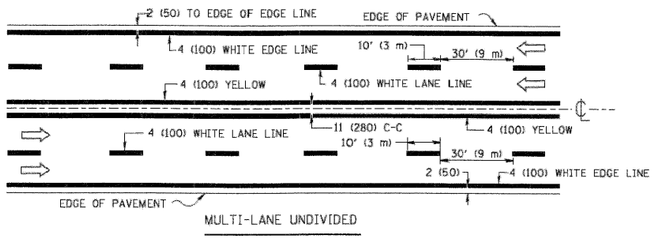
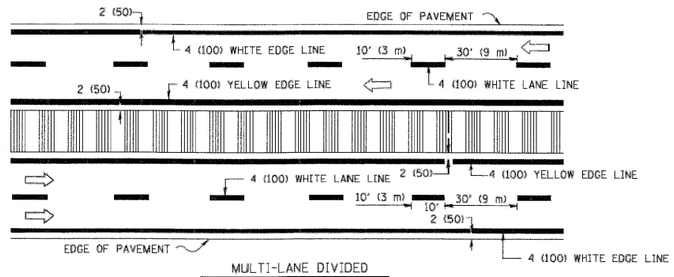
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



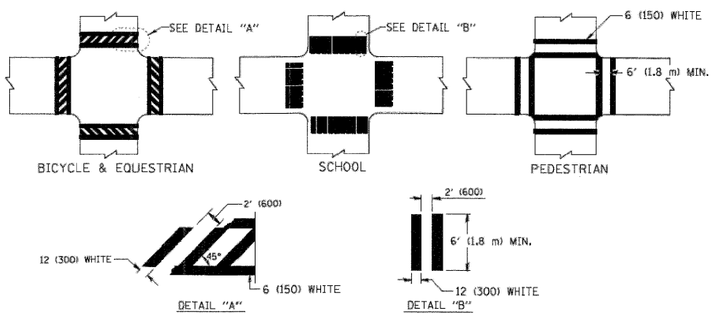
MULTI-LANE UNDIVIDED



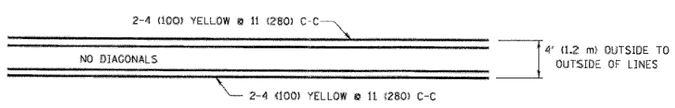
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

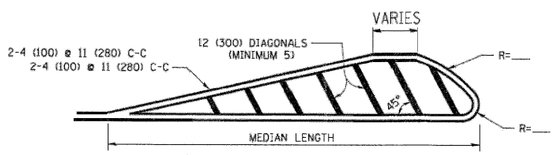
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



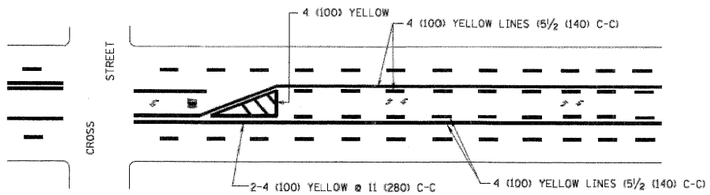
4' (1.2 m) WIDE MEDIANS ONLY



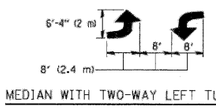
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

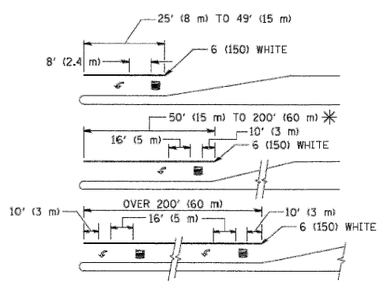


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

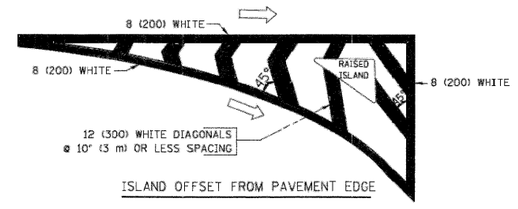


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

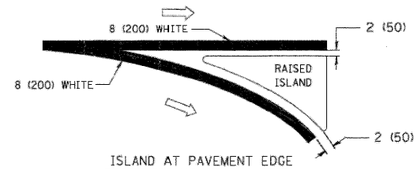
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 ø 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ø 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ø 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ø 6 (150) 12 (300) ø 45° 12 (300) ø 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ø 4 (100) WITH 12 (300) DIAGONALS ø 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ø 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) ø 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

DIST-5

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-13

PLOT DATE = 3/6/2007
FILE NAME = K:\dist1\tc\tc13.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = bauer-d1

CONTRACT NO. 60B95

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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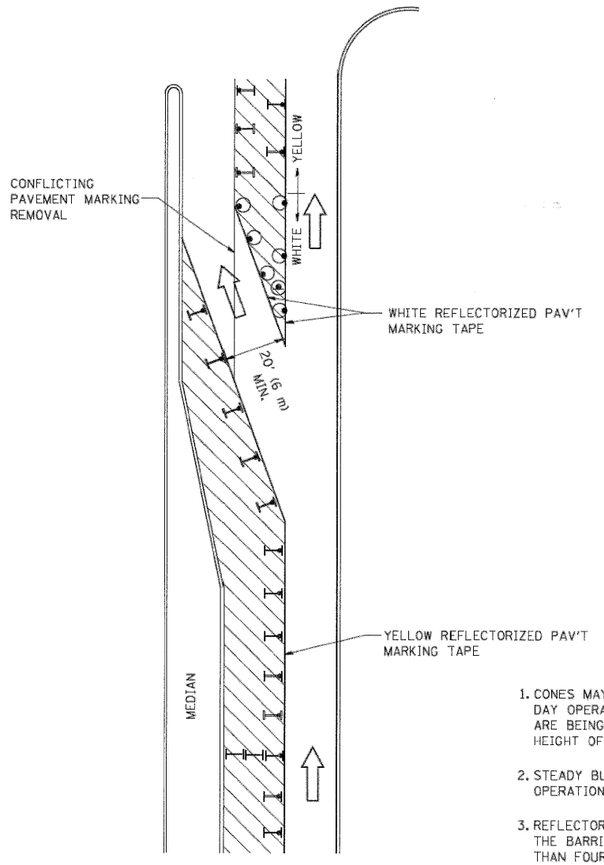
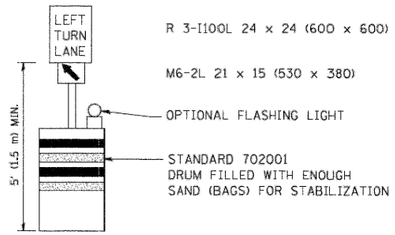
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

WORK AREA

LANE OPEN TO TRAFFIC

TYPE I OR II BARRICADE WITH STEADY BURN LIGHT

DRUM WITH STEADY BURN LIGHT

DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL

TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

DIST-6

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

SCALE: NONE

DRAWN BY

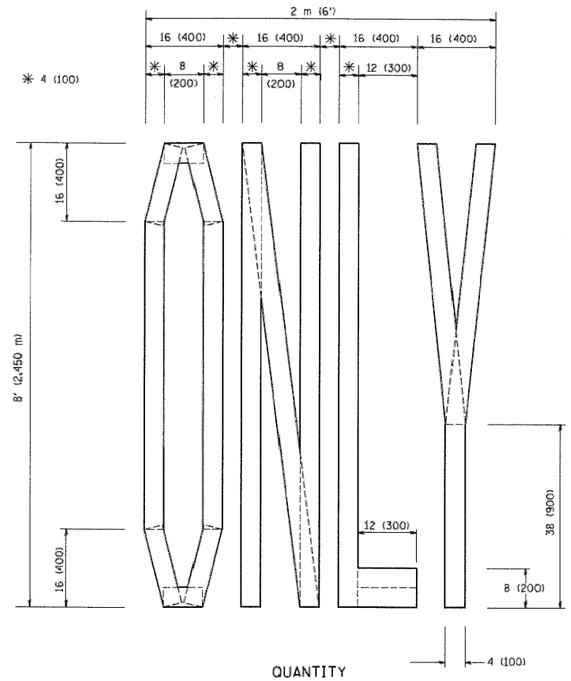
CHECKED BY LHA

TC-14

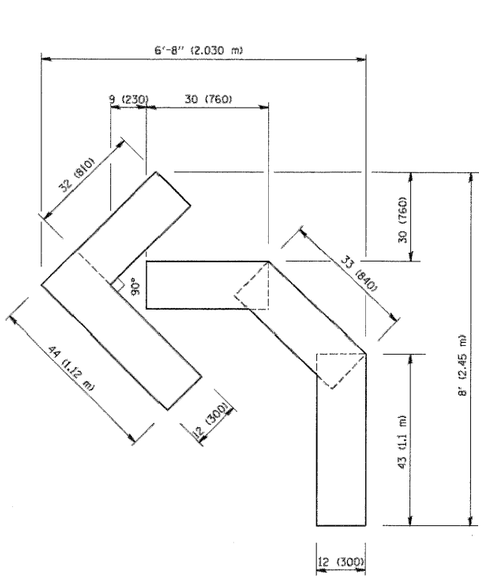
PLOT DATE = 3/6/2007
FILE NAME = K:\dist6\std\tc14.dgn
PLOT SCALE = 80.0000 ' / IN.
USER NAME = bauerd

CONTRACT NO. 60B95

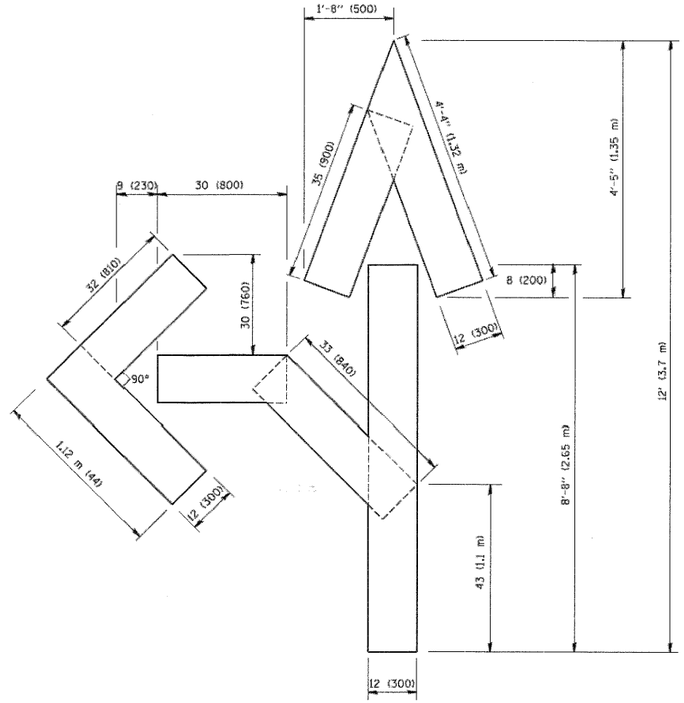
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	72
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)

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

DIST-7

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-16

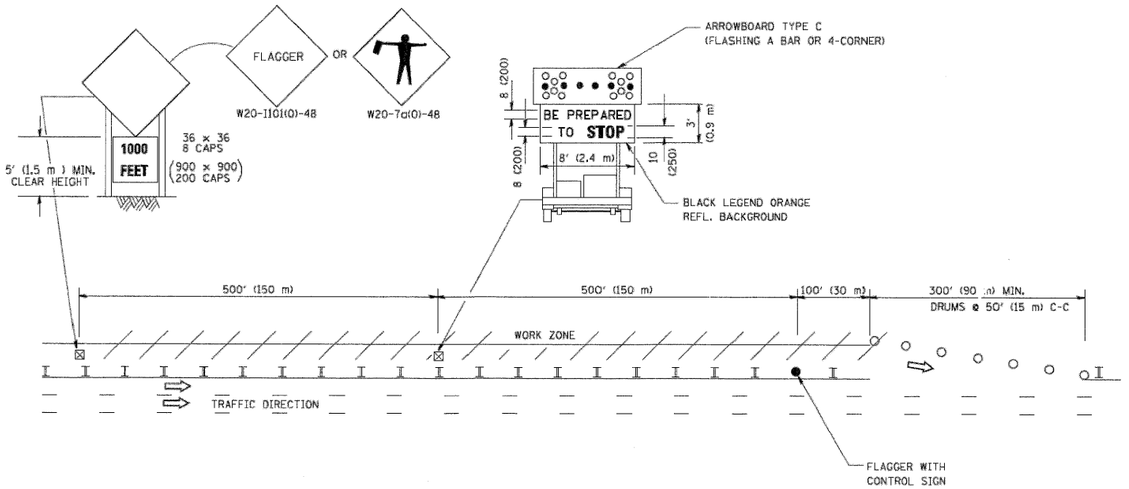
PLOT DATE = 3/7/2007
FILE NAME = K:\dsrsstd\tc16.dgn
PLOT SCALE = 60.0000 ' / IN.
USER NAME = Dsrsstd

CONTRACT NO. 60B95

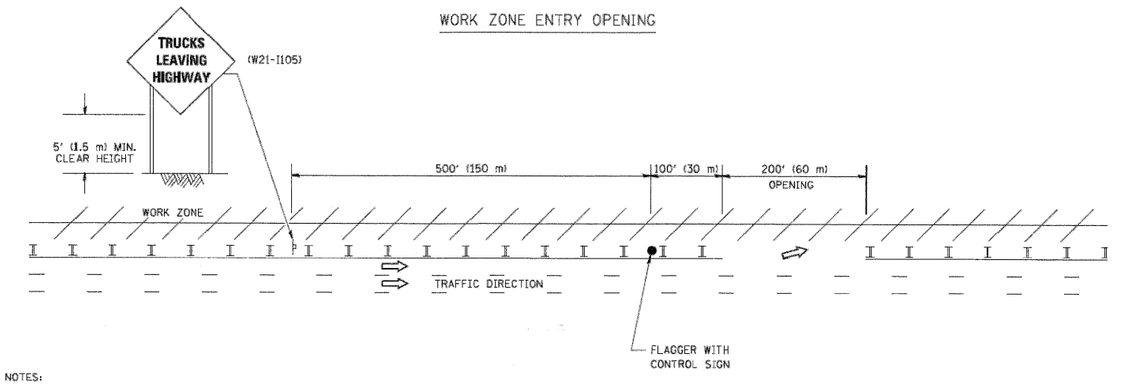
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DuPAGE	87	73
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

DIST-8

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-18

PLOT DATE = 3/7/2007
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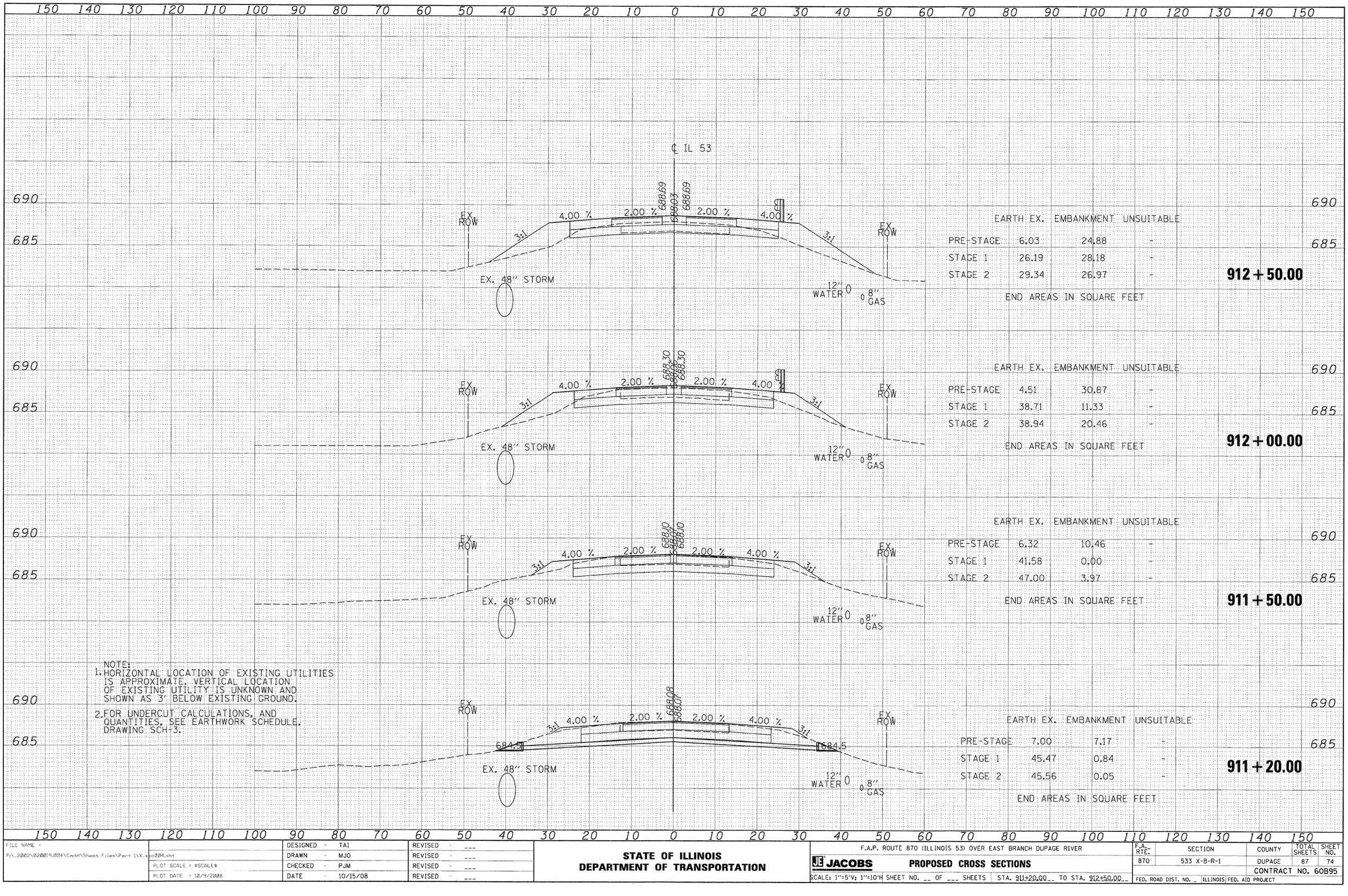
PLOT SCALE = 60.000 '/ IN.
USER NAME = bkward1



NOTE:
1. HORIZONTAL LOCATION OF EXISTING UTILITIES IS APPROXIMATE. VERTICAL LOCATION OF EXISTING UTILITY IS UNKNOWN AND SHOWN AS 3" BELOW EXISTING GROUND.
2. FOR UNDERCUT CALCULATIONS, AND QUANTITIES, SEE EARTHWORK SCHEDULE, DRAWING SCH-3.

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

FILE NAME = P:\..2002\020019.004\Cadd\Sheet Files\Part 1\X_sec204.sht	DESIGNED - TAI	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - MJO	REVISED - ---	
PLOT SCALE = $SCALE$	CHECKED - PJM	REVISED - ---	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED - ---	

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JACOBS — PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS STA. 911+20.00__ TO STA. 912+50.00__

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	74
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

NOTE:
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EARTH EX. EMBANKMENT

PRE-STAGE	8.42	6.11
STAGE 1	0.0	70.08
STAGE 2	0.0	55.15

END AREAS IN SQUARE FEET

EARTH EX. EMBANKMENT UNSUITABLE

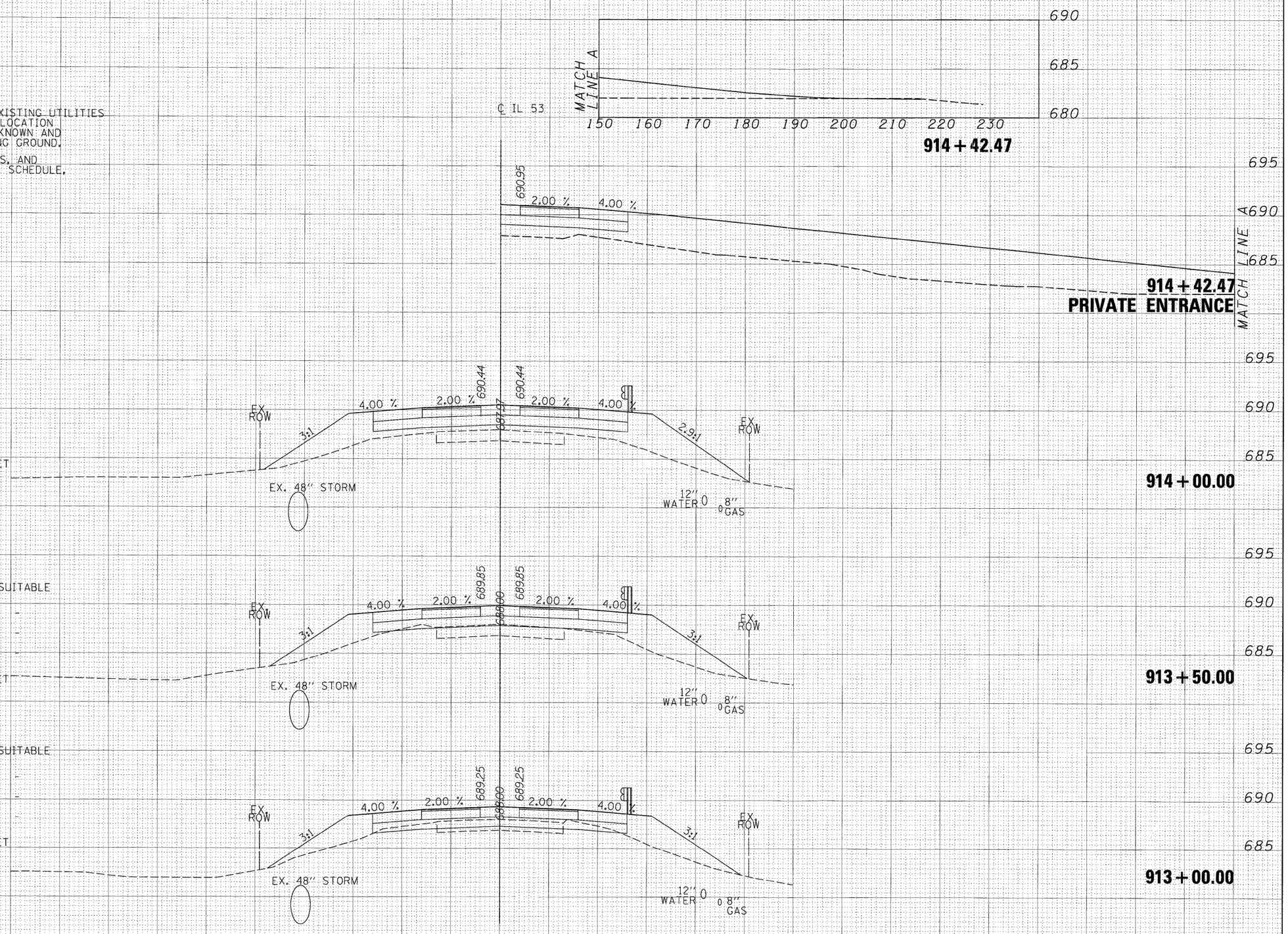
PRE-STAGE	10.49	9.55
STAGE 1	0.73	52.16
STAGE 2	3.24	35.65

END AREAS IN SQUARE FEET

EARTH EX. EMBANKMENT UNSUITABLE

PRE-STAGE	6.63	12.97
STAGE 1	15.70	36.83
STAGE 2	15.37	27.82

END AREAS IN SQUARE FEET



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	DRAWN - MJO	REVISED - ---	
PLOT SCALE = $SCALE$	CHECKED - PJM	REVISED - ---	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED - ---	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JACOBS

PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS | STA. 913+00.00 TO STA. 914+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	75
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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

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

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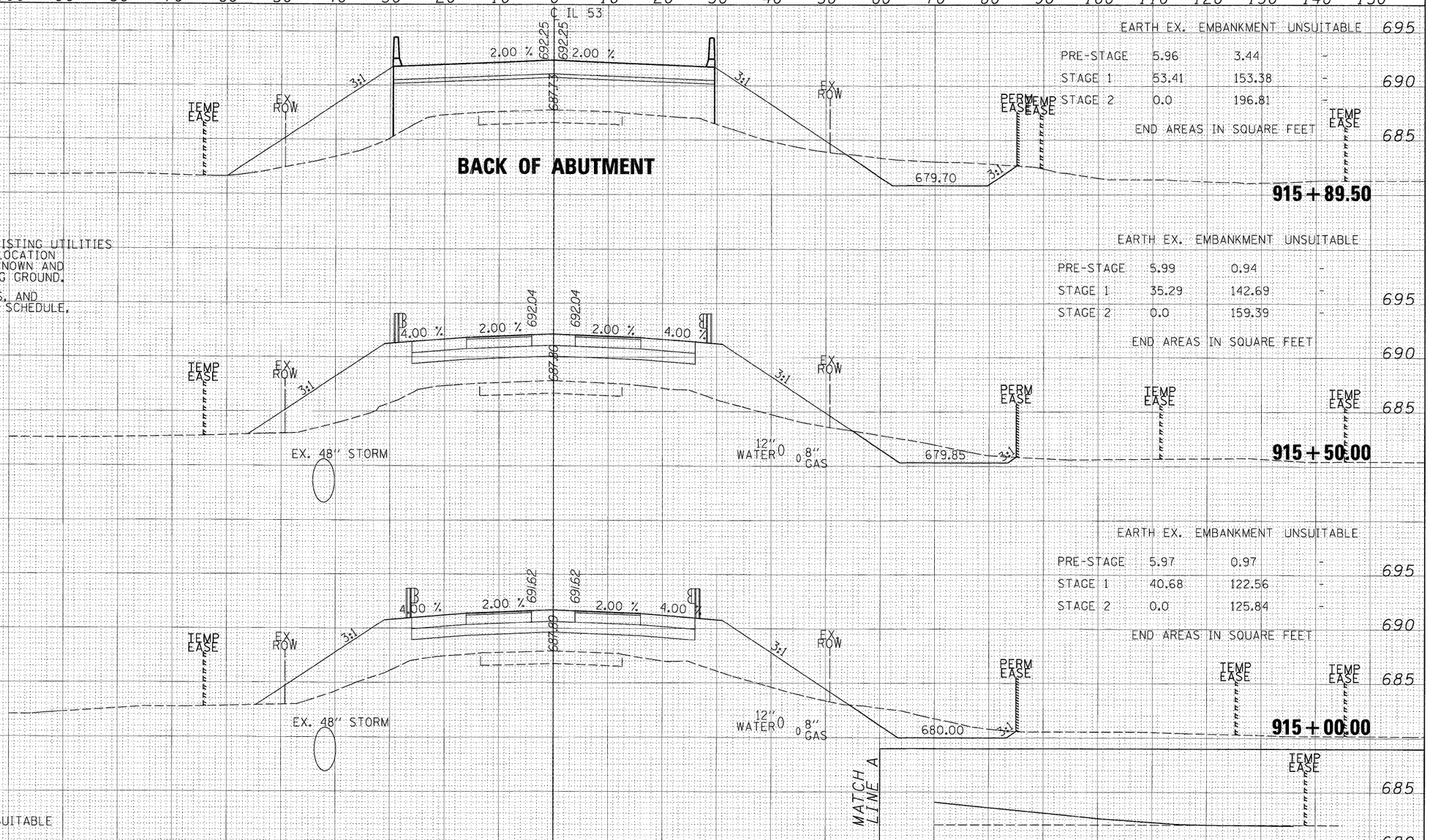

BACK OF ABUTMENT

NOTE:
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2. FOR UNDERCUT CALCULATIONS, AND QUANTITIES, SEE EARTHWORK SCHEDULE, DRAWING SCH+3.

EARTH EX. EMBANKMENT UNSUITABLE

PRE-STAGE	5.96	3.44	-
STAGE 1	53.41	153.38	-
STAGE 2	0.0	196.81	-

END AREAS IN SQUARE FEET

915 + 89.50

EARTH EX. EMBANKMENT UNSUITABLE

PRE-STAGE	5.99	0.94	-
STAGE 1	35.29	142.69	-
STAGE 2	0.0	159.39	-

END AREAS IN SQUARE FEET

915 + 50.00

EARTH EX. EMBANKMENT UNSUITABLE

PRE-STAGE	5.97	0.97	-
STAGE 1	40.68	122.56	-
STAGE 2	0.0	125.84	-

END AREAS IN SQUARE FEET

915 + 00.00

914 + 50.00

EARTH EX. EMBANKMENT UNSUITABLE

PRE-STAGE	7.63	1.61	-
STAGE 1	0.0	58.10	-
STAGE 2	0.0	76.44	-

END AREAS IN SQUARE FEET

914 + 50.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = P:_2002\020019.004\Cadd\Sheet Files\Part 1\X_sec004.sht	DESIGNED - TAI	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - MJO	REVISED - ---	
PLOT SCALE = $SCALE$	CHECKED - PJM	REVISED - ---	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED - ---	

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JACOBS

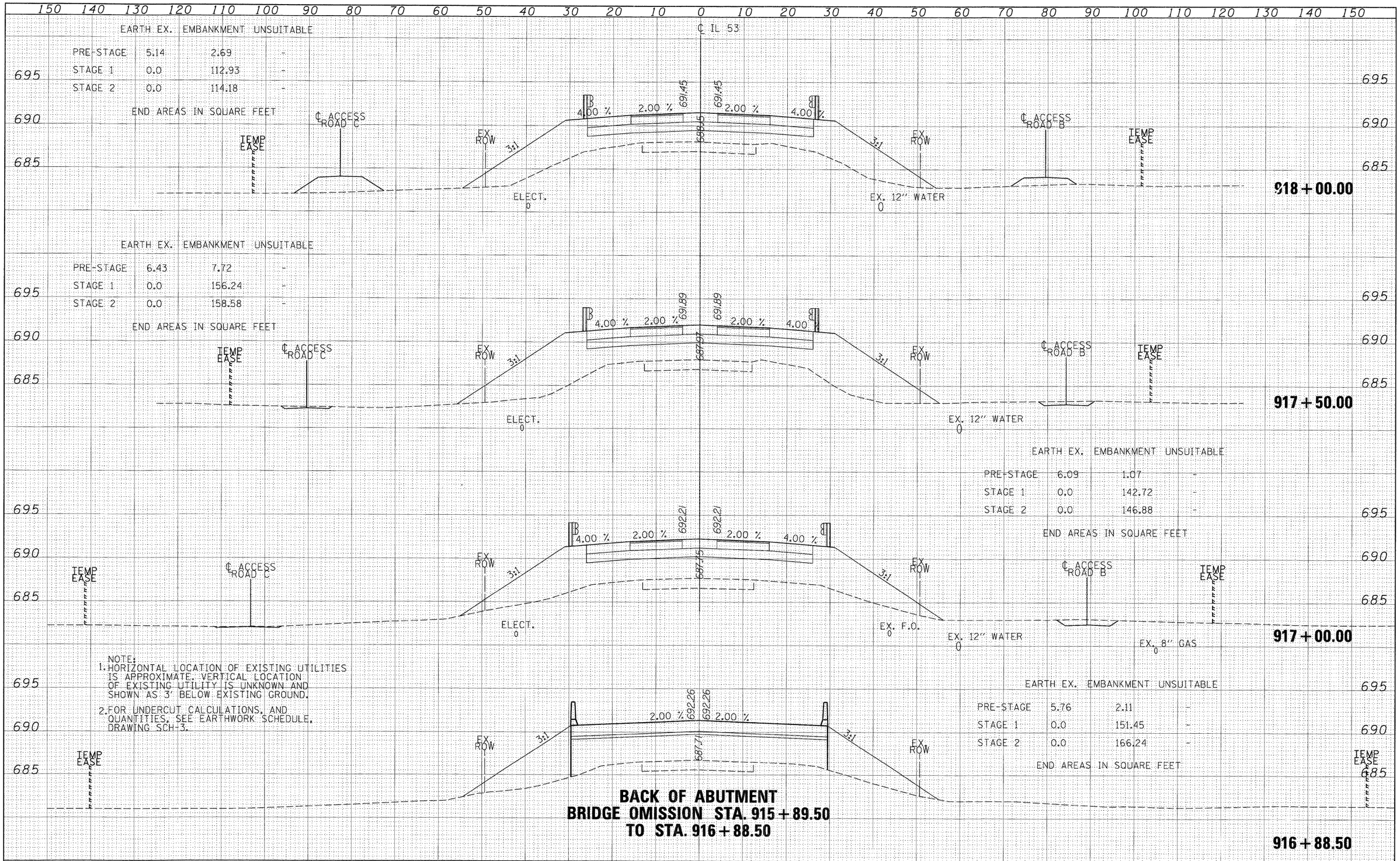
PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H | SHEET NO. __ OF ___ SHEETS | STA. 915+00.00 _ TO STA. 916+00.00 _

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	76
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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

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



NOTE:
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BACK OF ABUTMENT
BRIDGE OMISSION STA. 915+89.50
TO STA. 916+88.50

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

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

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	DRAWN - MJO	REVISED - ---	
PLOT SCALE = $SCALE$	CHECKED - PJM	REVISED - ---	
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED - ---	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JACOBS

PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS STA. 916+10.00 __ TO STA. 917+00.00 __

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	77
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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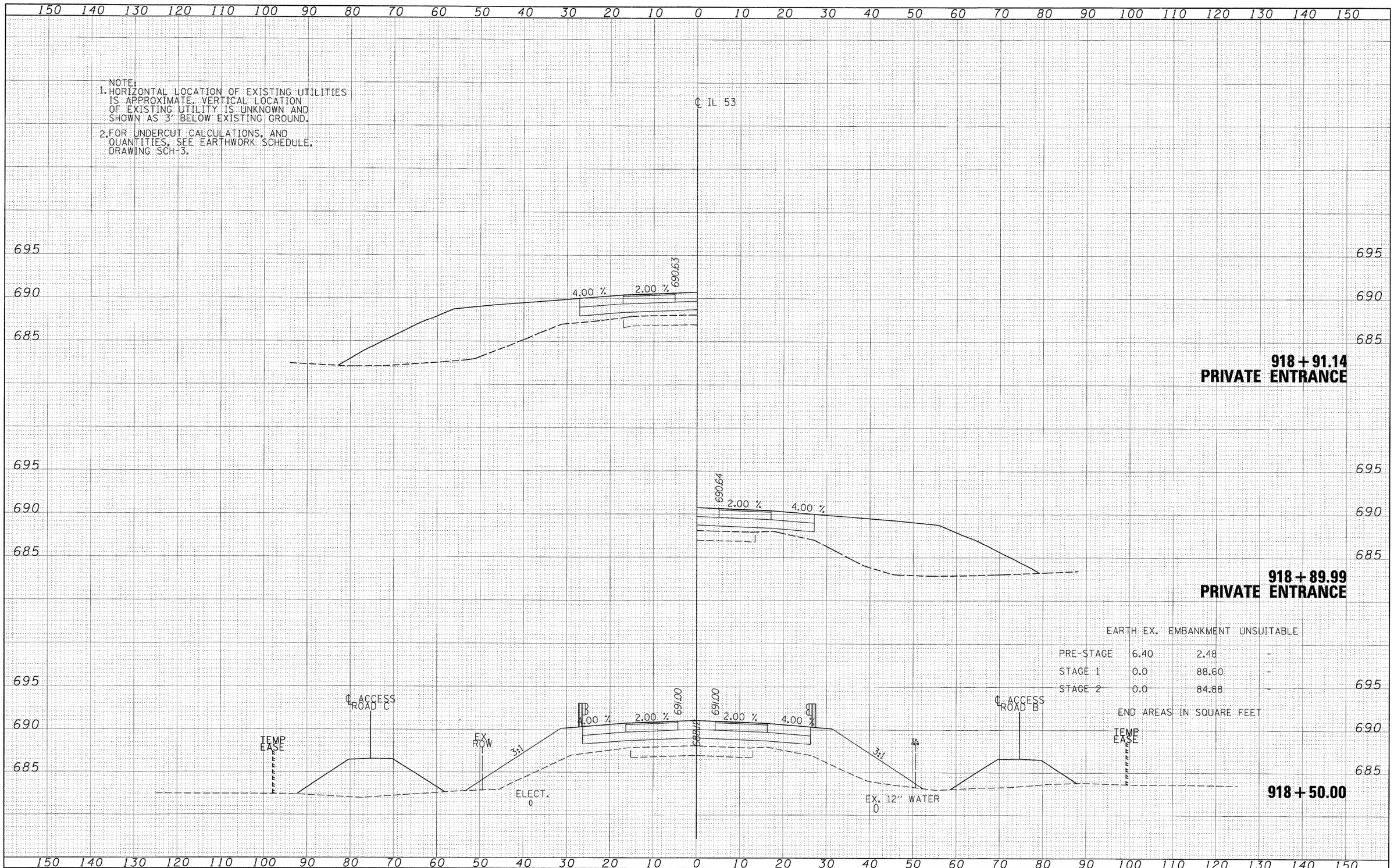

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	DRAWN - MJO	REVISED - ---	
P_OT SCALE = $SCALE$	CHECKED - PJM	REVISED - ---	
P_OT DATE = 10/9/2008	DATE - 10/15/08	REVISED - ---	

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

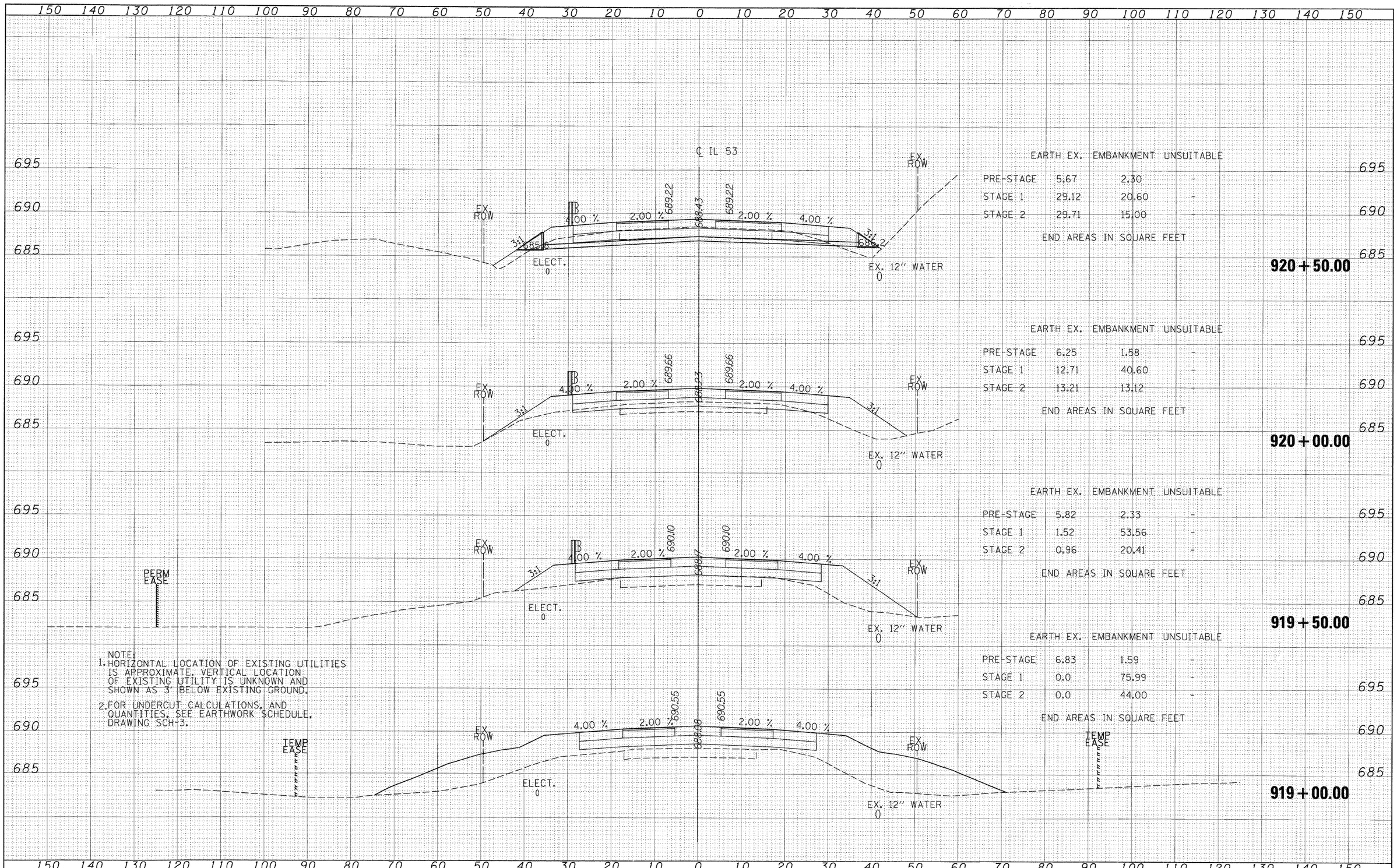
JACOBS — PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS | STA. 917+50.00__ TO STA. 918+50.00__

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	78
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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

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



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

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

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	DRAWN - MJO	REVISED -	
P_OT SCALE = $SCALE$	CHECKED - PJM	REVISED -	
P_OT DATE = 10/9/2008	DATE - 10/15/08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

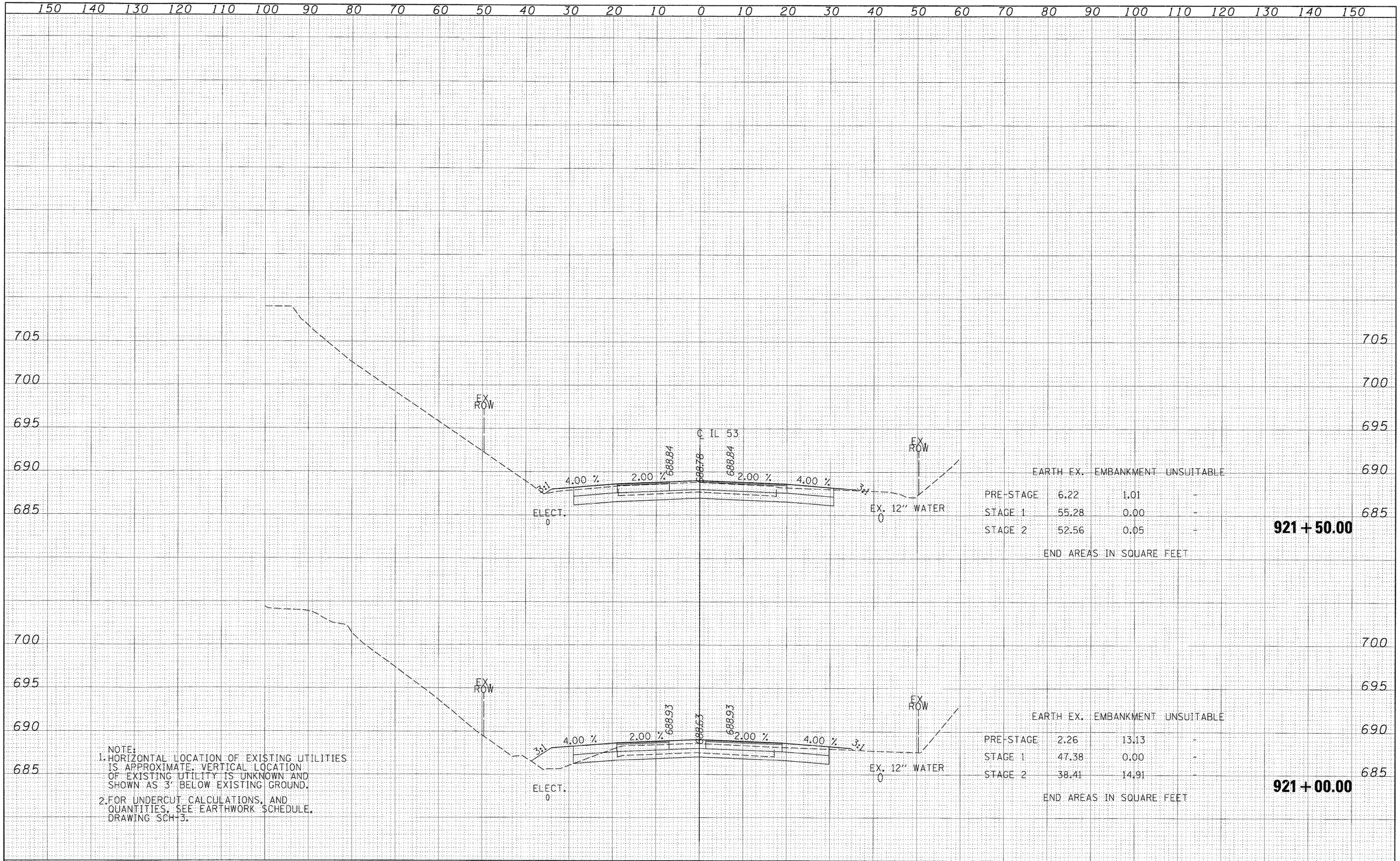
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JACOBS **PROPOSED CROSS SECTIONS**

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS STA. 919+00.00 TO STA. 920+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	79
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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



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

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PLOT SCALE = $SCALE$

PLOT DATE = 10/9/2008

DESIGNED - TAI	REVISED -	---
DRAWN - MJO	REVISED -	---
CHECKED - PJM	REVISED -	---
DATE - 10/15/08	REVISED -	---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JACOBS

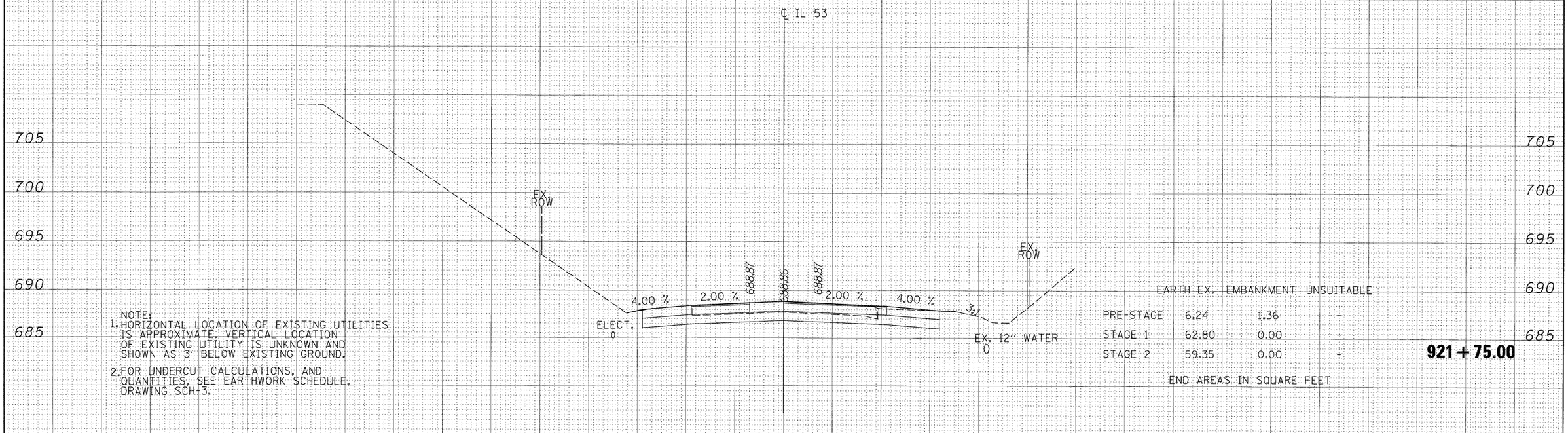
PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS STA. 921+00.00__ TO STA. 921+50.00__

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	80
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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

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



NOTE:
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EARTH EX. EMBANKMENT UNSUITABLE

PRE-STAGE	6.24	1.36	-
STAGE 1	62.80	0.00	-
STAGE 2	59.35	0.00	-

END AREAS IN SQUARE FEET

921 + 75.00

FILE NAME = P:_2022\020019.024\Cadd\Sheet Files\Part 1\X_sec024.sht		DESIGNED - TAI	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER
		DRAWN - MJO	REVISED -		JACOBS PROPOSED CROSS SECTIONS
	PLOT SCALE = $SCALE$	CHECKED - PJM	REVISED -		SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS STA. 921+75.00__ TO STA. 921+75.00__
	PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	81
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

℄ COMPENSATORY STORAGE 1

685

3:1 0.00 % 3:1 0.00 % 3:1 0.00 %

EARTH EX. EMBANKMENT UNSUITABLE
434.77 0.00 -
END AREAS IN SQUARE FEET

685

1+50.00

690

685

3:1 0.00 % 3:1 0.00 % 3:1 0.00 %

EARTH EX. EMBANKMENT UNSUITABLE
492.98 0.00 -
END AREAS IN SQUARE FEET

690

685

1+30.00

690

685

3:1 0.00 % 3:1 0.00 % 3:1 0.00 %

EARTH EX. EMBANKMENT UNSUITABLE
456.77 0.00 -
END AREAS IN SQUARE FEET

690

685

1+10.00

690

685

28.17 % 4.17 % 0.01 % 4.31 %

EARTH EX. EMBANKMENT UNSUITABLE
171.34 0.00 -
END AREAS IN SQUARE FEET

690

685

1+00.00

NOTE:
FOR UNDERCUT CALCULATIONS, AND QUANTITIES, SEE EARTHWORK SCHEDULE, DRAWING SCH-3.

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

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

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

FILE NAME = P:_2022\020019.004\Cadd\Sheet Files\Part 1\X_sec024.sht	DESIGNED - TAI	REVISED - ---	
	DRAWN - MJO	REVISED - ---	
PLOT SCALE = $SCALES	CHECKED - PJM	REVISED - ---	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED - ---	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

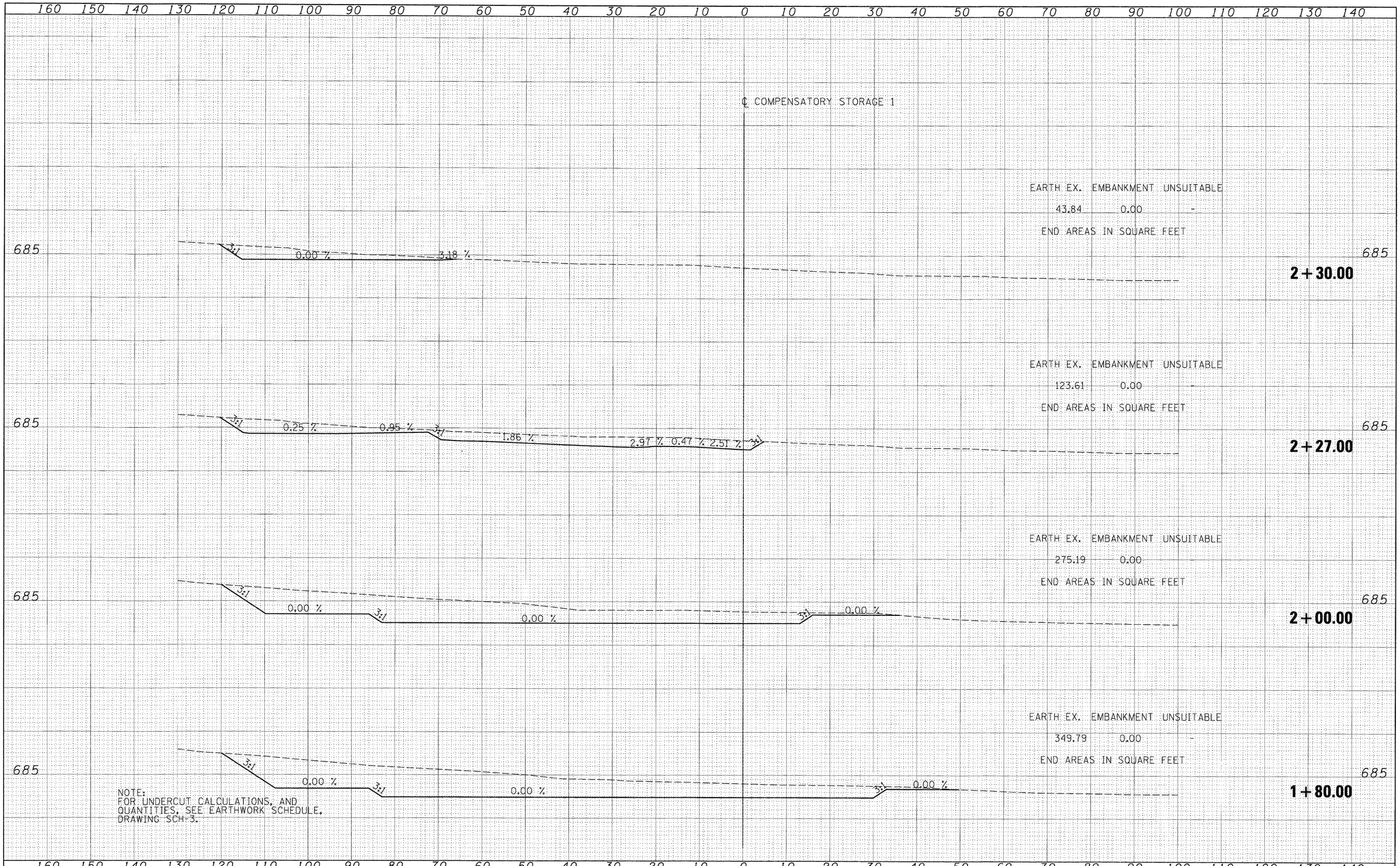
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JACOBS

PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS STA. 1+00.00___ TO STA. 1+50.00___

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	82
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME = P:_2002\020019.004\Cadd\Sheet Files\Part 1\X_sec004.sht	DESIGNED - TAI	REVISED - ---	
	DRAWN - MJO	REVISED - ---	
PLOT SCALE = $SCALE$	CHECKED - PJM	REVISED - ---	
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED - ---	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JE JACOBS

PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H | SHEET NO. __ OF ___ SHEETS | STA. 1+80.00___ TO STA. 2+30.00___

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	83
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

℄ COMPENSATORY STORAGE 2

695
690
685

EARTH EX. EMBANKMENT UNSUITABLE

798.26 0.00 -

END AREAS IN SQUARE FEET

3.8:1

0.00 %

2.8:1

101 + 30.00

695
690
685

EARTH EX. EMBANKMENT UNSUITABLE

1121.85 0.00 -

END AREAS IN SQUARE FEET

3.7:1

0.00 %

2.9:1

100 + 99.32

695
690
685

EARTH EX. EMBANKMENT UNSUITABLE

477.54 0.00 -

END AREAS IN SQUARE FEET

NOTE:
FOR UNDERCUT CALCULATIONS, AND QUANTITIES, SEE EARTHWORK SCHEDULE, DRAWING SCH-3.

2.5:1

15:1

100 + 78.92

220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

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

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

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	DRAWN - MJO	REVISED - ---	
PLOT SCALE = $SCALE$	CHECKED - PJM	REVISED - ---	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED - ---	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

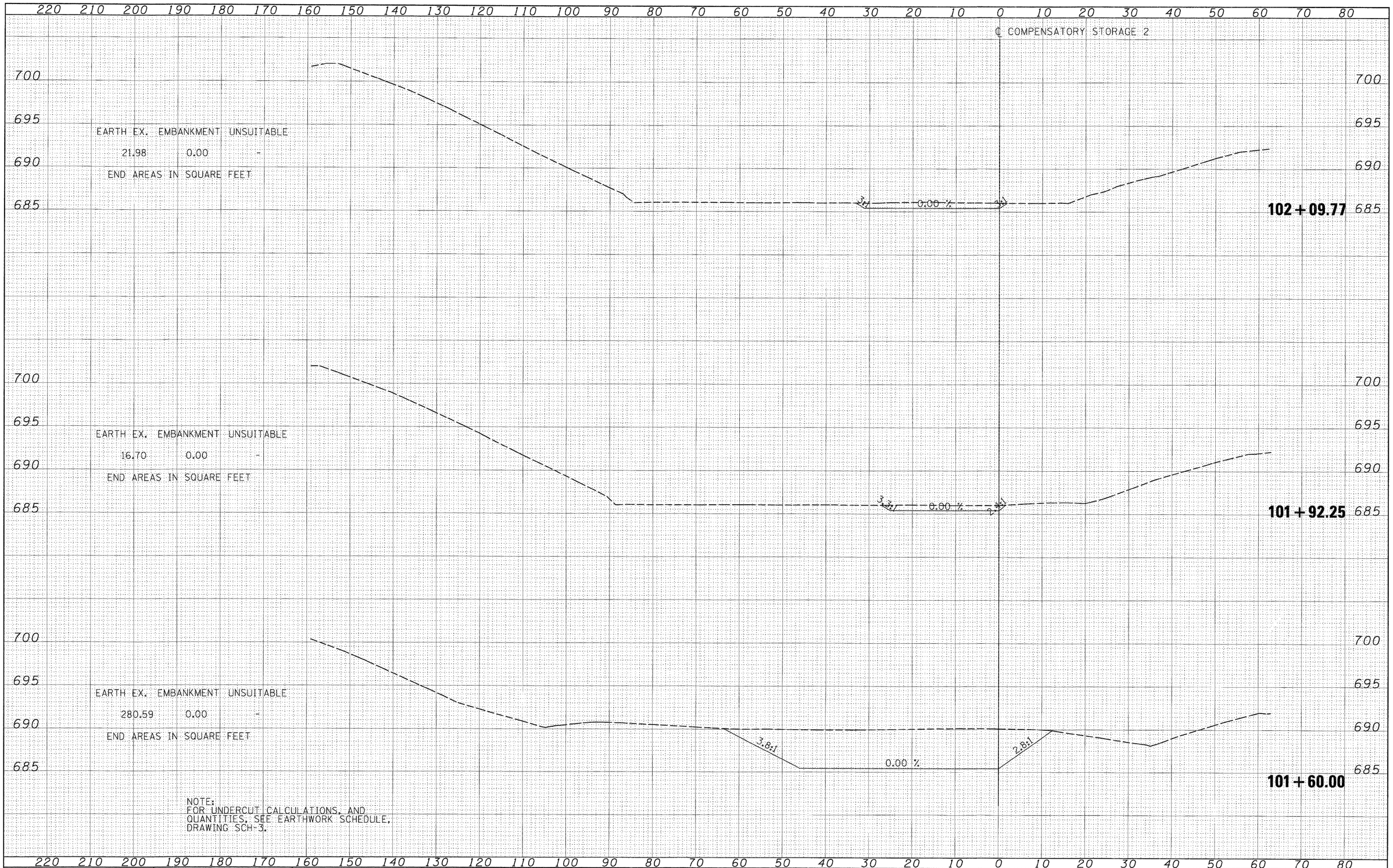
F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JACOBS

PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS STA. 100+50.00__ TO STA. 101+00.00__

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	84
		CONTRACT NO. 60B95		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



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

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

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PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED - ---	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

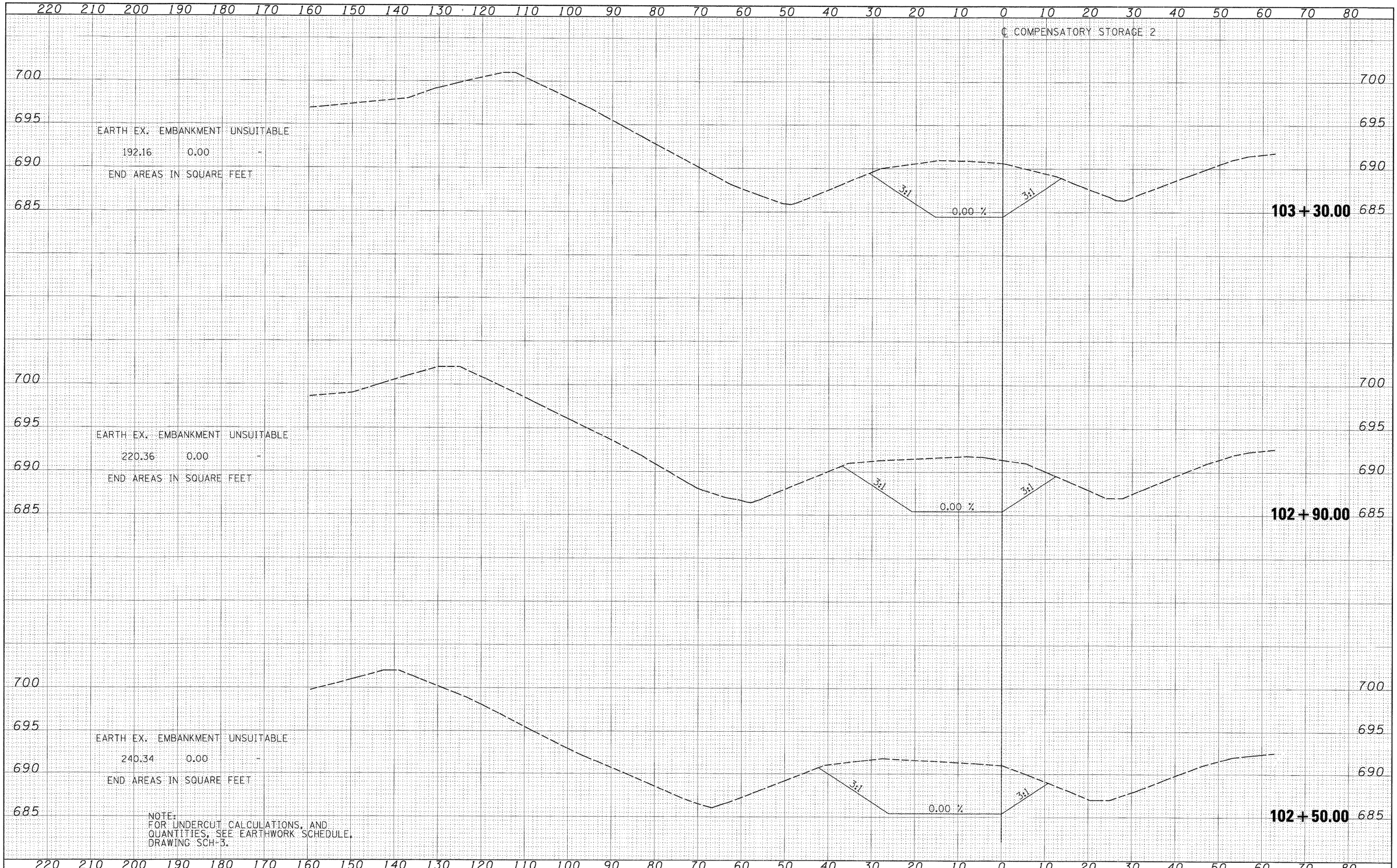
JACOBS

PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H | SHEET NO. __ OF ___ SHEETS | STA. 101+21.00 __ TO STA. 101+50.00 __

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	85
		CONTRACT NO. 60B95		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT



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

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

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	DRAWN - MJO	REVISED - ---	
PLOT SCALE = $SCALE#	CHECKED - PJM	REVISED - ---	
PLOT DATE = 10/9/2008	DATE - 10/15/08	REVISED - ---	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

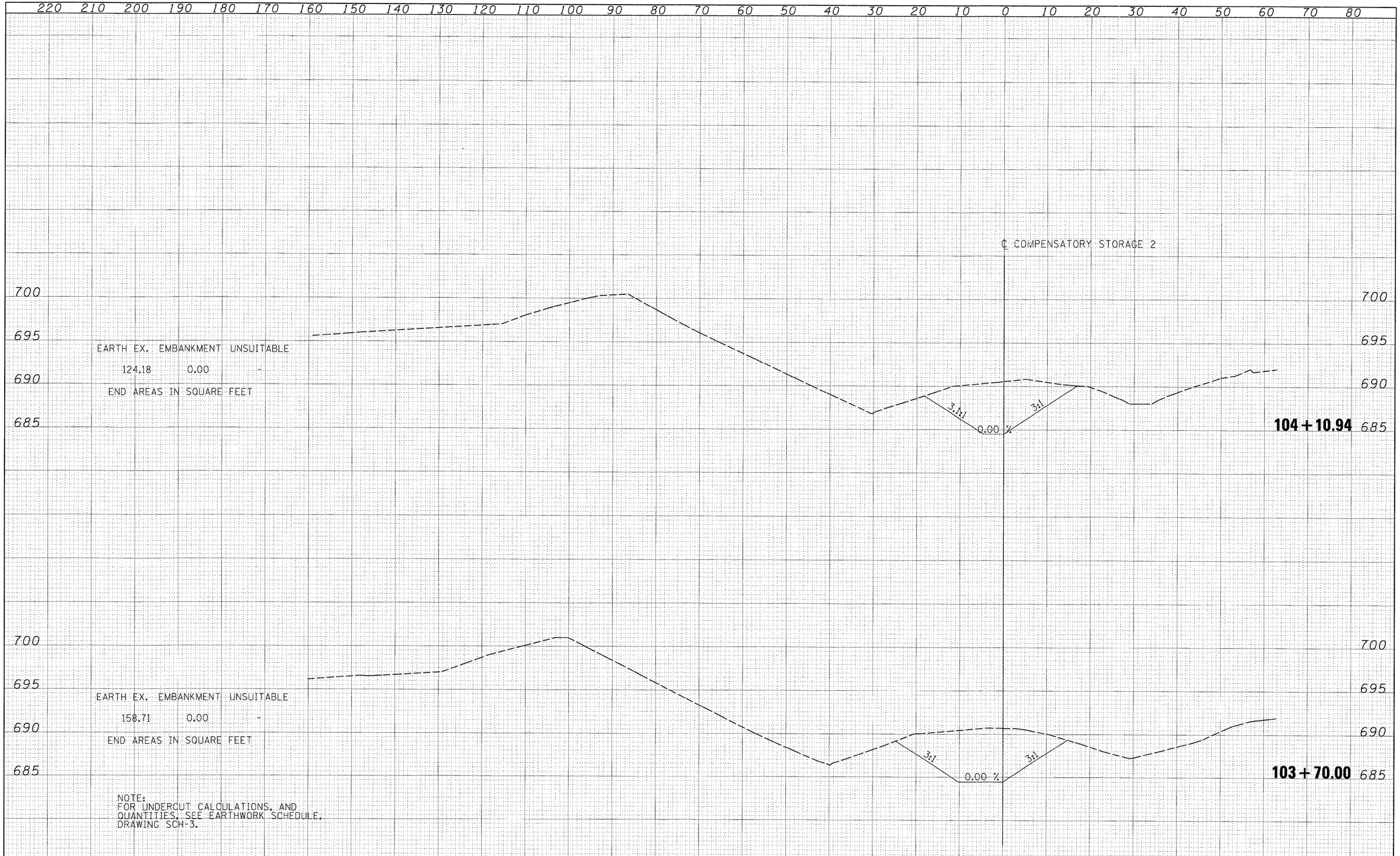
JACOBS **PROPOSED CROSS SECTIONS**

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS STA. 101+90.00__ TO STA. 102+14.00__

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	86
		CONTRACT NO. 60B95		

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

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



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

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	DRAWN - MJO	REVISED - ---	
PLOT SCALE = $SCALE$	CHECKED - PJM	REVISED - ---	
PLOT DATE = 12/9/2008	DATE - 10/15/08	REVISED - ---	

F.A.P. ROUTE 870 (ILLINOIS 53) OVER EAST BRANCH DUPAGE RIVER

JACOBS

PROPOSED CROSS SECTIONS

SCALE: 1"=5'V; 1"=10'H SHEET NO. __ OF ___ SHEETS STA. 102+16.00__ TO STA. 102+16.00__

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	533 X-B-R-1	DUPAGE	87	87

CONTRACT NO. 60B95

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT