INDEX OF SHEETS STATE STANDARDS SEE SHEET 02

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

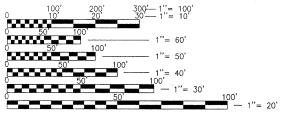
PROPOSED PLANS FOR FEDERAL AID HIGHWAY

AUSTIN AVENUE OVER INDIAN CREEK BRIDGE REPLACEMENT

SECTION NO. 03-01130-00-BR PROJECT BH0S-00D1 (653) AURORA TOWNSHIP KANE COUNTY C-91-352-04

DESIGN FUNCTIONAL CLASSIFICATION: MINOR COLLECTOR
DESIGN TRAFFIC: 757(2010), 1,000(2030) ADT; 38 (2010), 50(2030) DHV
DESIGN SPEED: 30 MPH

SCALES PLAN 1" = 10', 20', 30', 40', 60'
PROFILE HORIZ. 1" = 20'
PROFILE VERT. 1" = 5'
CROSS SECTIONS 1" = 10'



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.

ď

CHARLES

ENGINEER:

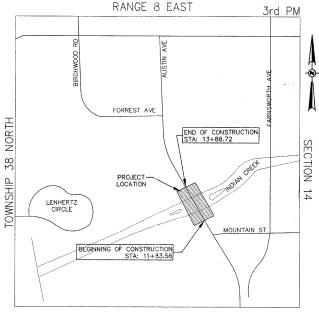
OFFICE

AND

CONTRACT NO. 63660



EXISTING STRUCTURE NO. 045-3087 PROPOSED STRUCTURE NO. 045-3091



LOCATION MAP

ENGINEER SEALS

TEBRUGGE ENGINEERING
Sheets 1-12. 24-33

Sheets 1–12, 24–33

061828

061828

PROFESSIONAL

2008338

PROFESSIONAL

200838

PROFESSIONAL

20083

JOHN J. TEBRUGGE, P.E. EXPRIES NOV 30, 2013

LONCO, INC. Sheets 13-23

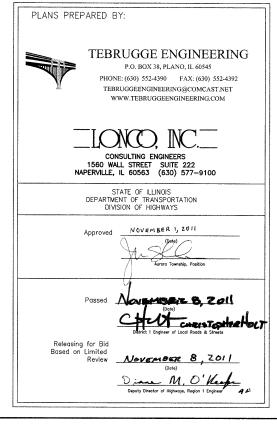


WILLIAM EPP, SE EXPIRES NOV 30, 2012
 SECTION
 COUNTY
 TOWNSHIP
 TOTAL SHEET
 SHEET NO.

 03-01130-00-BR
 KANE
 AURORA
 3-3
 1

 FED. ROAD DIST. NO.
 ILLINOIS
 CONTRACT 63660





TOTAL NET & GROSS LENGTH OF PROJECT = 205.16' = 0.039MI

INDEX OF SHEETS

SHEET NO.	<u>DESCRIPTION</u>
1.	COVER SHEET
2.	INDEX OF SHEETS AND GENERAL NOTES
3.	SUMMARY OF QUANTITIES
4.	ALIGNMENTS, TIES, & BENCHMARKS
5.	EXISTING CONDITIONS AND DEMOLITION PLAN
6.	PROPOSED PLAN AND PROFILE
7.	STORM WATER POLLUTION & PREVENTION PLAN
8.	STORM WATER POLLUTION & PREVENTION PLAN NOTES
9.	PAVEMENT MARKING PLAN
10.	NATIVE LANDSCAPE I
11.	NATIVE LANDSCAPE II
12.	TRAFFIC CONTROL
13.	BRIDGE GENERAL PLAN AND PROFILE
14.	STEEL RAILING TYPE SM
15.	SUBSTRUCTURE LAYOUT & SLOPE PROTECTION
16.	SUPERSTRUCTURE DETAILS
17.	27X48 PCC DECK BEAMS I
18.	27X48 PCC DECK BEAMS II
19.	27X36 PCC DECK BEAMS I
20.	27X36PCC DECK BEAMS II
21.	SOUTH ABUTMENT & PILING DETAILS
22.	NORTH_ABUTMENT & PILING DETAILS
23.	HP PILE DETAILS
24.	GUARDRAIL DETAILS
25.	APPROACH PAVEMENT
26.	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
27.	BUTT JOINT AND HMA TAPER DETAILS
28.	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
29.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
30.	TYPICAL ROADWAY CROSS SECTIONS
31.	INDIAN CREEK CROSS SECTIONS
32.	SOIL BORINGS
33.	MISCELLANEOUS DETAILS

LIST OF STATE STANDARDS

DESCRIPTION

STANDARD NO

STANDAND NO.	WENT MALE
000001 - 06 001001 - 02	STANDARD SYMBOLS, ABBREVIATION AND PATTERNS AREAS OF REINFORCEMENT BARS
280001 - 06	TEMPORARY EROSION CONTROL SYSTEMS
420401 08	BRIDGE APPROACH PAVEMENT CONNECTOR
515001 - 03	NAME PLATE FOR BRIDGES
631032 - 07	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006 - 03	REFLECTOR & TERMINAL MARKER PLACEMENT
701901 - 02	TRAFFIC CONTROL DEVICES
720001 - 01	SIGN PANEL MOUNTING DETAILS
720006 - 03	SIGN PANEL ERECTION DETAILS
720011 - 01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001 - 01	TELESCOPING STEEL SIGN SUPPORT
729001 - 01	APPLICATIONS FOR TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001 - 03	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
RIR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

COMED ELECTRICAL TERESA DISMUKES TWO LINCOLN CENTER OAKBROOK TERRACE, IL 60181 630-576-7141

NICOR GAS CONSTANCE LANE 1844 FERRY ROAD

NAPERVILLE, IL 60563 630-388-3830 AT&T BROADBAND CABLE EARL FLEMMING 1000 COMMERCE DR. 2ND FLOOR OAKBROOK, IL 60523 630-573-6462

CITY OF AURORA SEWER & WATER RAY HULL 649 S RIVER ST AURORA, IL 60506 630-256-3710

FOX METRO RECLAMATION DISTRICT SEWER JEFF HUMM 630-892-4378 682 ILLINOIS 31 OSWEGO, IL 60543

AURORA SCHOOL DISTRICT #131 630-299-8340

CITY OF AURORA POLICE DEPARTMENT 630-256-5330

CITY OF AURORA FIRE DEPARTMENT 630-256-4000

1. THE CONTRACTOR WILL BE ALLOWED TO SET UP A YARD AND/OR FIELD OFFICE IN THE CONTRACTOR'S STAGING AREA

2. BEFORE STARTING ANY EXCAVATION WORK, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC. TELEPHONE, CABLE AND GAS FACILITIES. (48-HOUR NOTIFICATION IS REQUIRED.)

3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE PIPE OUTLETS FROM ALL CATCH BASINS ARE FREE OF BLOCKAGES AND DEBRIS.

5. ALL EXISTING GRASS AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESEEDED AND PROTECTED FROM EROSION WITH EROSION CONTROL BLANKETS.

6. THE CONTRACTOR SHALL PROTECT ALL IDENTIFIED TREES DURING ONSTRUCTION. AT THE CONTRACTOR'S EXPENSE, ALL BROKEN TREE LIMBS OVER ONE-INCH (1") IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. ALL LIMBS, BRANCHES, SCRUB BRUSH, AND OTHER DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE LIMITS OF THE PROJECT.

7. ALL TREES IN OR ADJACENT TO THE WORK AREA WITH DIAMETERS LARGER THAN TEN-INCHES (10") SHALL HAVE THEIR TRUNKS PROTECTED FROM CONSTRUCTION ACTIVITY.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL STREETS USED BY CONTRACTOR, SUB-CONTRACTORS, AND SUPPLIERS CLEAN AND FREE OF ALL DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS, AND WILL BE REQUIRED TO CLEAN THEM AS IS NECESSARY IN ORDER TO MAINTAIN THEM IS A SAFE CONDITION. THE CONTRACTOR SHALL BE ESPECIALLY RESPONSIVE TO REQUESTS FROM THE ENGINEER, AURORA TOWNSHIP, POLICE AND FIRE DEPARTMENTS, OR ANY OFFICIAL OF THE OWNER TO COOPERATE THROUGHOUT THE PROJECT DURATION. THIS WORK WILL NOT BE PAID FOR SEPARATELY BU'SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

9. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN CONFORMANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", STATE OF ILLINOIS, AND ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS. BARRICADES AND OTHER REQUIRED TRAFFIC CONTROL WILL PAID UNDER THE LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY SETUP.

10. LAYOUT OF SLOPE PROTECTION SYSTEM MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

11. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE

12. UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE AND FIRE DEPARTMENTS SHOULD BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

13. DURING THE CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED, AT HIS EXPENSE, TO HAVE AVAILABLE A WATER TRUCK OR SIMILAR EQUIPMENT TO CONTROL DUST. IF NECESSARY, THE CONTRACTOR SHALL BE REQUIRED TO CONTROL DUST DURING NON-WORKING HOURS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT

14. SPECIAL CARE SHALL BE TAKEN DURING EXCAVATION NEAR UTILITIES AND TREES TO BE SAVED-IN ORDER TO AVOID UNNECESSARY DAMAGE.

15. ALL WORK PERFORMED SHALL COMPLY WITH ALL APPLICABLE RULES AND RECULATIONS OF THE OSHA. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SAFE AND HEALTHFUL WORKING CONDITION THROUGHOUT THE CONSTRUCTION OF THE VARIOUS IMPROVEMENTS.

16. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL SECTION/SUBSECTION MONUMENTS OR PROPERTY MONUMENTS.

17. COST OF SAWCUTS SHALL BE INCLUDED IN THE COST OF PAVEMENT

18. DISPOSAL OF UNUSED AND SURPLUS EXCAVATED MATERIALS AND DEBRIS

THIS WORK SHALL CONSIST OF THE SATISFACTORY REMOVAL AND DISPOSAL OF EXCAVATED MATERIALS, EXCAVATED UNSUITABLE MATERIALS, UNUSED MATERIALS, CONSTRUCTION DEBRIS FROM ROADWAY AND UTILITY WORK, FROM THE EXISTING BRIDGE REMOVAL, AND WORK TO ADDRESS SCOPE OF WORK ELEMENTS OF THE WATERWAY OPENING AS SHOWN ON THE PLANS, AND ANY OTHER ORGANIC WASTE MATERIALS.

THIS WORK SHALL BE PERFORMED ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS FOR REMOVAL OF UNSUITABLE MATERIAL AND ORGANIC WASTE.

UTILITY COORDINATION:

1. UTILITIES IN THE VICINITY OF THE PROJECT ARE SHOWN ON SHEETS 5 OF THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY.

2. THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY THE UTILITY. THE EXACT LOCATIONS AND ELEVATION ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE UTILITY.

CONCRETE GENERAL NOTES:

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42, OR M-53 GRADE 60.

2. REINFORCING BARS DESIGNATED (E) SHALL BE EPOXY—COATED. DAMAGE TO THE POXY COATING DURING HANDLING, PLACEMENT, ETC., SHALL BE REPAIRED WITH A COMPATIBLE EPOXY.

3. ALL ACCESSORIES, INCLUDING BOLSTERS, CHAIRS, TIE WIRE, ETC., USED TO TIE OR SUPPORT THE EPOXY-COATED BARS SHALL BE EPOXY-COATED.

4. STRUCTURAL CONCRETE: CONCRETE SHALL BE IDOT CLASS SLHAVING A MINIMUM COMPRESSIVE STRENGTH (FC) OF 3,500 PSI AT 14 DAYS. THE CONCRETE MIX SHALL HAVE AN AIR CONTENT BETWEEN 5 AND 8 PERCENT OF THE VOLUME OF THE CONCRETE. THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS TO THE ENGINEER FOR APPROVAL.

5. THE BACK FACE OF THE ABUTMENT WINGWALLS AND RETAINING WALLS SHALL BE WATERPROOFED ACCORDING TO ARTICLE 503.18 OF THE STANDARD SPECIFICATIONS.

6. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR THE LATERAL DEFLECTION OF FORMS, SHRINKAGE AND SETTLEMENT OF FALSEWORK OR BRACES, IN ADDITION TO ALLOWANCE FOR DEADLOAD DEFLECTION, AS APPLICABLE.

7. DESIGN AND CONSTRUCTION OF FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH ACI 347 AND THE STANDARD SPECIFICATIONS.

1. THE EXTENT OF DEMOLITION WORK IS SHOWN ON AND REASONABLY INFERABLE FROM THE DRAWINGS.

2. PROVIDE FOR OFF-SITE DISPOSAL OF ALL DEMOLISHED MATERIAL.

3. THE ITEM "REMOVAL OF EXISTING STRUCTURE" SHALL INCLUDE THE ENTIRE SUPERSTRUCTURE AND PORTIONS OF THE SUBSTRUCTURE OF THE EXISTING BRIGGE AS NOTED ON THE DEMOLITION PLAN.

MOISTURE PROTECTION

1. DESIGNATED CONCRETE SURFACE SHALL BE COATED WITH A SILANE SURFACE SEALER. THE SEALER SHALL BE ISOBUTYL TRIMETHOXY SILANE IN A 40% SOLIDS SOLUTION OF ANHYDROUS ISOPROPYL ALCOHOL. SURFACES TO RECEIVE SILANE INCLUDE THE RIGID CONCRETE PAVEMENT, AND OTHER ENGINEER

2. THE SILANE SURFACE SEALER SHALL BE CONSIDERED AN ALTERNATE TO THE DEPARTMENT'S PROTECTIVE COAT REQUIREMENTS FOR CONCRETE CAST IN THE

1. ALL DRILLED—IN REINFORCING BAR DOWELS SHALL BE SET WITH IDOT PRE—QUALIFIED EPOXY ADHESIVE GROUTING MATERIAL MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. REINFORCING BARS TO BE EPOXY—GROUTED MAY BE EPOXY COATED, AS SHOWN ON THE PLANS.

2. FOLLOWING DRILLING, ANCHOR HOLES SHALL BE THOROUGHLY CLEANED WITH OIL-FREE AND MOISTURE-FREE COMPRESSED AIR, USING A NOZZLE EXTENDED TO THE BOTTOM OF THE HOLE, AND SUPPLEMENTED WITH A PERMITTED TO DRY. CORE-DRILLED HOLES SHALL BE FLUSHED WITH CLEAN WATER IMMEDIATELY FOLLOWING DRILLING, BLOWN OUT WITH COMPRESSED AIR, AND BRUSH OR OTHER TOOL AS NECESSARY TO REMOVE ALL DUST AND LOOSE MATERIAL.

3. UNLESS OTHERWISE INDICATED, ADHESIVE OR GROUT SHALL BE PLACED THROUGH A TUBE OF GUN EXTENSION, BEGINNING AT THE MAXIMUM DEPTH OF THE HOLE AND WITHDRAWN AS ADHESIVE IS PUMPED, FOLLOWED BY INSERTION OF THE ANCHOR TO THE SPECIFIED DEPTH. SPACES AROUND ANCHORS AT THE SURFACE SHALL BE SEALED AT VERTICAL AND OVERHEAD LOCATIONS WHERE NECESSARY TO PREVENT ESCAPE OF THE ADHESIVE DURING CURING.

4. EPOXY-GROUTED REINFORCING BARS SHALL NOT BE BENT AFTER BEING EMBEDDED IN HARDENED, SOUND CONCRETE UNLESS PERMITTED BY THE ENGINEER.

REFERENCE STANDARDS:

ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)
 A) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (ADOPTED JANUARY 1, 2012)
 B) SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

(ADOPTED JANUARY 1, 2012) C) HIGHWAY STANDARDS

2. AMERICAN ASSOCIATION OF STATE HIGHWAYS AND TRANSPORTATION

OFFICIALS (AASHTO)
A) STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES
B) STANDARD SPECIFICATIONS FOR TRANSPORTATION MATERIALS AND METHODS OF SAMPLING AND TESTING

C) BRIDGE WELDING CODE (ANSI/AASHTO/AWS D1.5)

3. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) A) CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES

HOT-MIX ASPHALT MIXTURE REQUIREMENTS DESIGN AIR MIXTURE TYPE THICKNESS ROADWAY RESURFACING HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) 4% @ 50 GYR HMA BINDER COURSE, IL-19.0, N50 4% @ 50 GYR 2 4" & VARIES ROADWAY RECONSTRUCTION HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) 4% @ 50 GYR HMA BINDER COURSE, IL-19.0, N50 4% @ 50 GYR 2 1 & VARIES BRIDGE APPROACH PAVEMENT CONNECTOR FLEXIBLE, 15" HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) 4% @ 50 GYR HMA BINDER COURSE, IL-19.0, N50 4% @ 50 GYR

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112LBS/SQ YD/IN. 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE SBS/SBR PG 76-22 AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE 64-22 UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP"

3. SEE SHEET 30 FOR TYPICAL SECTIONS

SEE SPECIAL PROVISIONS

TEBRUGGE ENGINEERING PO. BOX 13, PAJANO, II. 66465	DESIGNE	ED — JJT	REVISED —
	DRAWN	- ASK	REVISED —
	CHECKE	D — JJT	REVISED —
PHONE: (630) 552-4390 FAX: (630) 552-4392	DATE	- 10/7/2011	REVISED -

INDEX TO SHEETS & GENERAL NOTES	F.A.P. SECTION COUNTY TOTAL SHEETS NO.
AUSTIN AVE OVER INDIAN CREEK	03-01130-00-BR KANE 33 2
TOOTH TITE OF THE MINISTRUCTURE	D-91-352-04 CONTRACT NO. 63660
SCALE: NONE SHEET NO. 1 OF 1 STA. 11+83.56 TO STA. 13+88.72	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT

		SUMMARY OF QUANTITIES	80% FEDERAL, 20% STATE				
SP	ITEM NUMBER	DESCRIPTION	UNIT	TOTAL	ROADWAY 0004	BRIDGE 0011	
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	39	39		
	20101100	TREE TRUNK PROTECTION	EACH	5	5		
***************************************	20200100	EARTH EXCAVATION	CU YD	30	30		
	20300100	CHANNEL EXCAVATION	CU YD	90	90		
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	60.0	60.0	***************************************	
*	25000110	SEEDING, CLASS 1A	ACRE	0.07	0.07		
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10	10		
*	25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	10	10		
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	10	10		
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	20	20		
	28000400	PERIMETER EROSION BARRIER	FOOT	381	381		
***************************************	28100107	STONE RIP RAP, CLASS A4	SQ YD	350		350	
	28200200	FILTER FABRIC	SQ YD	350		350	
	31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	63.0	63.0		
	40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	283	283		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	. 21	21		
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19, N50	TON	62	62		
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	71	71		
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	35	35		
	44000100	PAVEMENT REMOVAL	SQ YD	201	201		
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	170	170	2	
	48101200	AGGREGATE SHOULDERS, TYPE B	TONS	46	46		
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
	50200100	STRUCTURE EXCAVATION	CU YD	187		187	
	50300225	CONCRETE STRUCTURES	CU YD	49.8	12.8	37.0	
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	48.1		48.1	
	50300280	CONCRETE ENCASEMENT	CU YD	3.6		3.6	
	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1642		1642	
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	19760		19760	
*	50901050	STEEL RAILING, TYPE SM	FOOT	130		130	

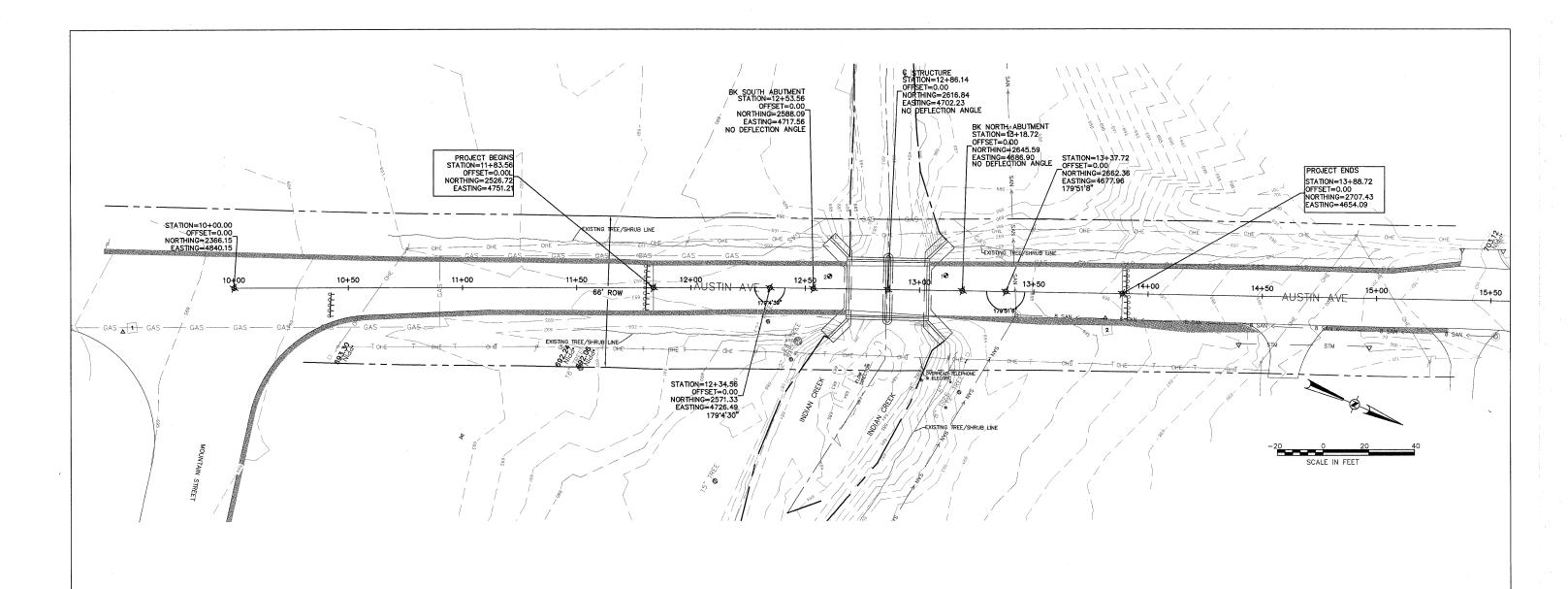
		SUMMARY OF QUANTITIES	8	30% FEDERA	L, 20% STAT	E
SP	ITEM NUMBER	DESCRIPTION	UNIT	TOTAL	ROADWAY 0004	BRIDGE 0011
	51201610	FURNISHING STEEL PILES HP 12X63	FOOT	292		292
	51202305	DRIVING PILES	FOOT	292		292
	51203610	TEST PILE STEEL HP 12X63	EACH	2		2
	51204650	PILE SHOES	EACH	10		10
	51500100	NAME PLATES	EACH	1		1
	58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	443		443
-	58700300	CONCRETE SEALER	SQ FT	432		432
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	66		66
	60300350	MANHOLE FRAMES TO BE ADJUSTED	EACH	1	1	
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
	67100100	MOBILIZATION	L SUM	1	1	
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
*	78 000200	THERMOPLASTIC PAVEMENT MARKING-LINE 4"	FOOT	820	560	260
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4	
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
	X0326806	WASHOUT BASIN	L SUM	1	1	
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	99	99	
*	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	453	453	
	X5810100	WATERPROOFING MEMBRANE SYSTEM (SPECIAL)	SQ YD	183		183
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	108		108
*	A2000170	TREE, ACER X FREEMANH AUTUMN BLAZE (AUTUMN BLAZE MAPLE), 8' HEIGHT CLUMP FORM, BALLED AND BURLAPPED	EACH	2	2	
*	K1005421	SEEDING, SPECIAL	ACRE	0.03	0.03	

* SPECIALTY ITEMS

				the state of the s	
		DESIGNED	- JJT	REVISED -	Г
		DRAWN.	- ASK	REVISED —	1
TEBRUGGE ENGINEERING		CHECKED	– JJT	REVISED	1
PHONE: (630) 352-4390 FAX: (630) 552-4392	 -	DATE	- 10/7/2011	REVISED	1

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	
	SCALE: NO

F.A.P. RTE.		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
	03	-01130)-00-B	R	Т	KANE	33	3
D-91-352-04				T	CONTRACT	NO. 6	3660	
FED. RO	DAD DIST.	NO	ILLINOIS	FED.	AID	PROJECT		

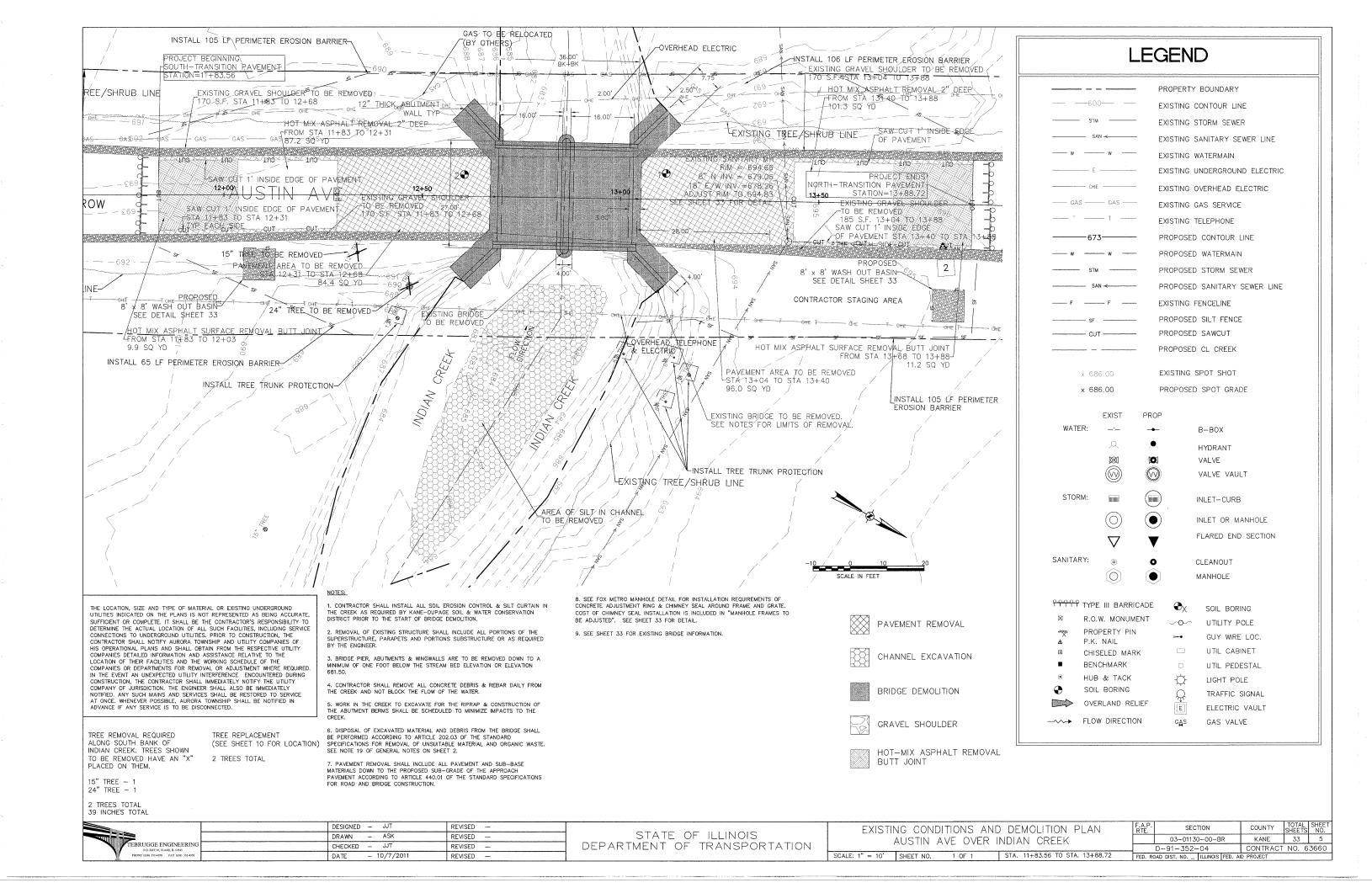


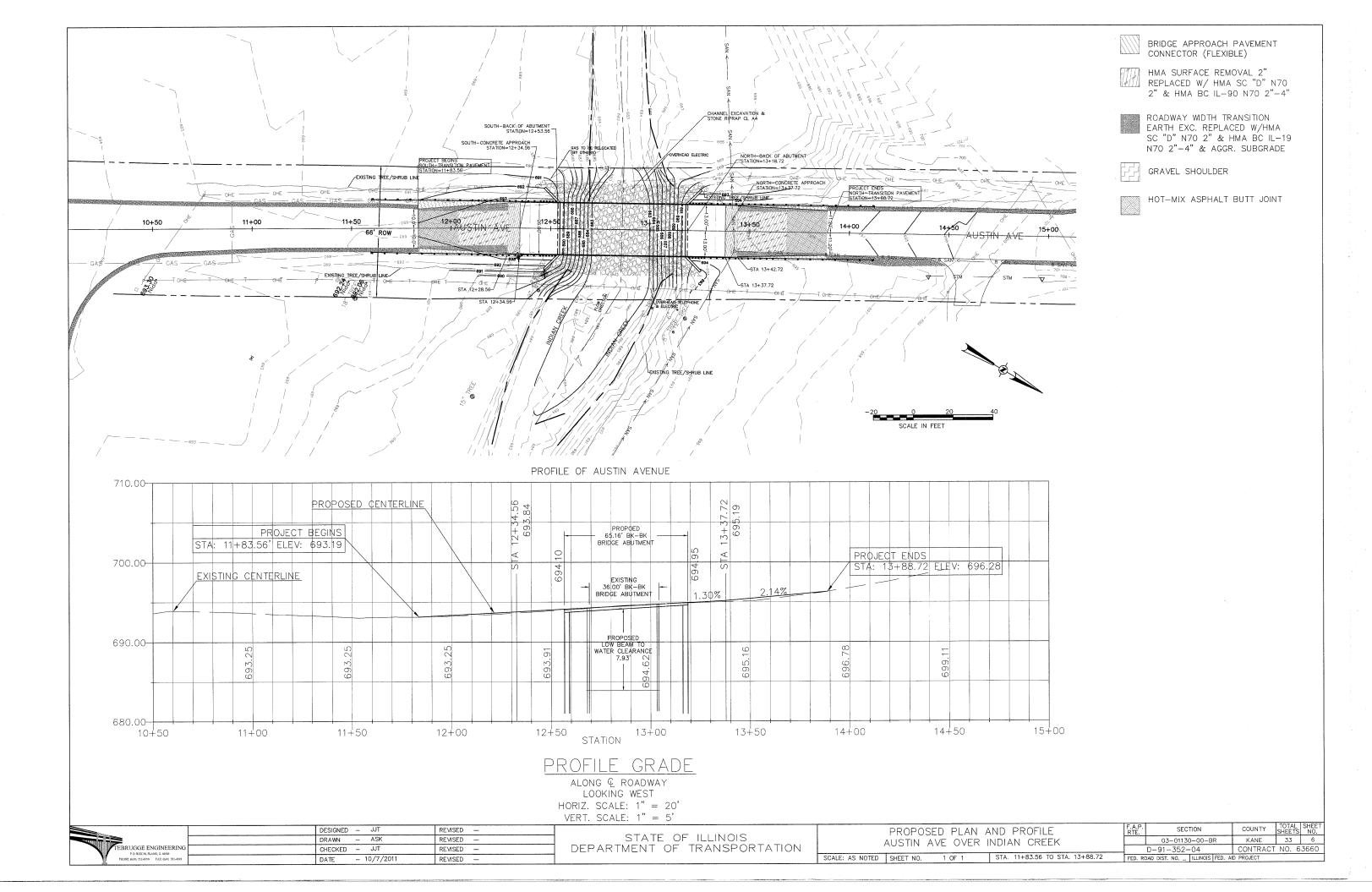
	HORIZONTAL/VERTICAL CONTROL POI	NTS
1	N: 2332.6809 E: 4880.2039 LOCATED 313' SOUTH OF BRIDGE SE CORNER OF MOUNTAIN AVE AND AUSTIN AVE	695.84
2	N: 2706.0591 E: 4666.9300 LOCATED 76' NORTH OF BRIDGE ON EAST SIDE OF AUSTIN AT STA 13+81.00	695.63
3	N: 2974.4255 E: 4507.0072 LOCATED 388' NORTH OF BRIDGE ON WEST SIDE OF AUSTIN AVE STA 16+93 (NOT SHOWN ON THIS SHEET)	705.67

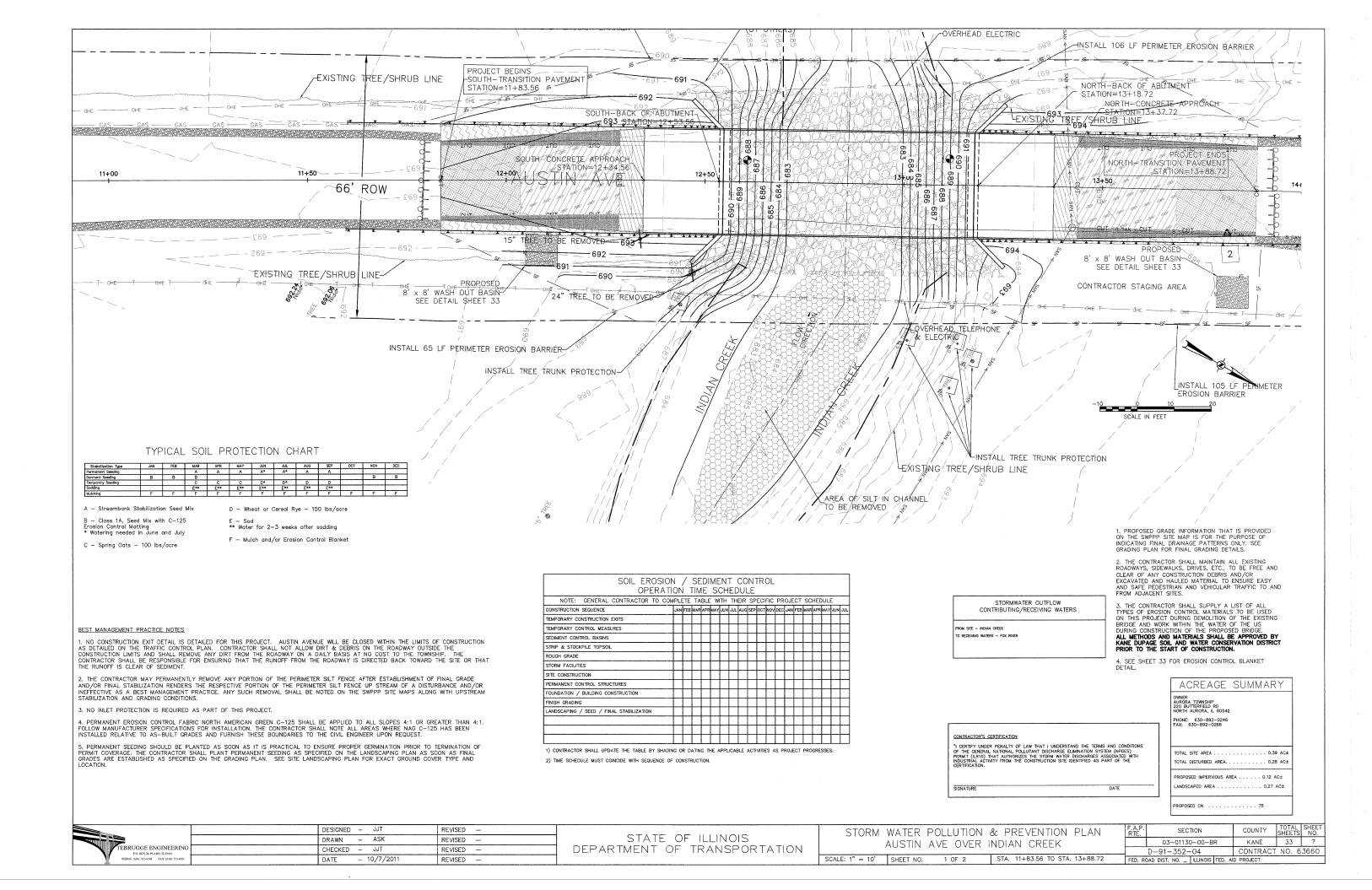
С	ITY OF AURORA CONTROL PO	DINTS
BM #20 N	COA CONTROL MONUMENT #20 NORTH N: 1864092.657 E: 998319.873 (NOT SHOWN ON THIS SHEET)	709.80
BM #20 S	COA CONTROL MONUMENT #20 SOUTH N: 1863244.718 E: 998250.965 (NOT SHOWN ON THIS SHEET)	709.91

NAVD 88 DATUM

	MENTS, TIES, & BENCHMARKS F.A.P. SECTION COU	UNTY SHEETS NO.
DRAWN - ASK REVISED - STATE OF ILLINOIS		ANE 33 4
TEBROUGE BROINEDRING CHECKED - JJ1 REVISED - DEPARTMENT OF TRANSPORTATION	D-91-352-04 CON	ITRACT NO. 63660
78 PROVE (2016) 512-0998 FAX: (201) 512-0992 F	NO. 1 OF 1 STA. 11+83.56 TO STA. 13+88.72 FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT	ECT







1. GENERAL NOTES & DESCRIPTIONS

The Storm Water Pollution Prevention Plan (SWPPP) includes, but is not limited to the Erosion and Demolition Plan included in the Engineering Plans with the Detail Sheet, Permit Authorization, General Fermit. All records of inspection and activities which are created during the course of the project, and other documents as may be included by reference to this SWPPP. Changes, modifications, revisions, additions, or deletions shall become part of this

All Contractors and sub-contractors that are responsible for implementing and measur of the SMPPP must be identified and must certify this SMPPP by signing the SMPPP certification in accordance with Part V.U. (Signatory Requirements) of the ILRIO Permit.

All signed certifications must be kept with the SWPPP documents and be available for inspection.

The Contractor and all sub-contractors involved with construction activity that disturbs alte soil or who implement a pollutant control measure identified in the Storm Water Pollution Prevention Plan must comply with the following requirements of the National Pollutant Discharge Eliminator System (NPDES) General Permit, the NPDES Permit No. ILR10 for the State of Illinois and any local governing agency having jurisdiction concerning erosion and sediment control.

A. GENERAL PERMIT INFORMATION
All construction sites that will result in the disturbance of one core or more must be
permitted under the Illinois General NPDES Permit. A Notice of Intent (NOI) will not be required
for this site due to the area of disturbancre being under one acre.

There are no requirements for a pre-construction meeting from any of the reviewing agencies.

B. PUBLIC POSTING
The following documents will be supplied to the contractor and must be posted on the
Entrance Sign in a prominent place for public viewing until termination of permit coverage has
been obtained.

The location of the SWPPP must be clearly visible.

C. RETENTION OF RECORDS A complete copy of the SWPPP, including copies of all inspection reports, plan revisions, etc., must be retained at the project site at all times during the duration of the project (until NOT is filed) and kept in the permanent project records of the Contractor for at least three years.

D. CONTRACTOR/SUB-CONTRACTOR LIST The Contractor must provide names and addresses of all sub-antractors working on this project who will be involved with the major construction activities that disturb site soil. This information must be kept with the SWPPP.

E. CONTRACTOR/SUB—CONTRACTOR CERTIFICATION FORM

The Contractor and oil sub—contractors involved with ground disturbing or installation and maintenance of any Best Management Practice (BMP) on site must sign a copy of the Contractor Certification that will be supplied to the Contractor. This information must be kept with the SWPP of the Contractor.

F. INSPECTIONS

At least once every seven calendar days and with 24 hours of a 0.5 in rainfall event, inspections by documented Contractor Compliance Officer must be made to determine the effectiveness of the SWPPP. If the State or Local agencies have a required inspection form, the both forms must be completed. The SWPPP, including the best management practices implemented on the biblite, shall be modified as needed to reduce or prevent pollutants from discharging from the site.

A delegation of authority letter authorizing the Contractor Compliance Officer to sign the inspection forms will also be supplied to the Contractor.

The Inspector must be a person familiar with the site, the nature of major construction activities, and qualified to evaluate both overall system performance and individual component performance. The inspector must either be someone empowered to implement modifications to this SWPPP and the pollutant control devices, if needed, in order to increase effectiveness to an acceptable level, or someone with the authority to cause such things to happen. Additional the inspector shall be properly authorized in accordance with the applicable General Permit to conduct the certified site storm water inspections.

See Section WII on this sheet for further reporting requirements.

SWPPP UPDATES & AMENDMENTS
This SWPPP must be updated each time there are significant modifications to the pollution prevention system or a change of Contractors working on the project that disturb site soils. The SWPPP must be amended as necessary during the course of construction in order to keep it current with the pollutant control measures utilized on the site. Amending the SWPPP does not meen that it has to be reprinted, it is acceptable to add addends, sketches, new sections, and/or revised drawings. The site map showing the locations of all starm water controls must be posted on the site and updated to reflect the progress of construction and changes to the comended by the Engineer. Substitution of sediment control BMPs beyond those specified in the SWPPP is considered a hydrologic design component.

H. DISCHARGE OF PETROLEUM PRODUCTS OR HAZARDOUS SUBSTANCES
Discharge of Petroleum products or other hozordous substances into storm water or the
storm water (storm sewer) system is subject to reporting and clean up requirements. See
section VLB.8 of this SWPPP for State and local information on reporting spills. Refer to the
General Permit for additional information.

FINAL INSPECTION
Once the site reaches final stabilization as defined in the General Permit, with all permanent
reason and sedimentation controls installed and all temporary erosion and sedimentation
controls removed, the Contractor and Owner's representative must complete a final inspection
and approval by the Owner's representative.

J. CONTRACTORS RESPONSIBILITY
This SWPPP intends to control water-bourne and liquid pollutant discharges by some
combination of interception, sedimentation, filtration, and containment. The Contractor and
sub-contractors implementing this SWPPP must remain alert to the need to periodically refine
and update the SWPPP in order to accomplish the intended goals. The Contractor is ultimately
responsible for all site conditions and permit compliance.

RESPONSIVE for an inter-constant on permitting the permitting and the permitting and the permitting and the permitting activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated or completed must be maintained until the final inspection is approved. A log for keeping such records is included. Controls must be in place down gradient of any ground-disturbing solutions and construction activity plates.

This SWPPP includes the elements necessary to comply with the natural baseline general permit for construction activities administered by the US Environmental Protection Agency (EPA) under the National Pollutant Discharge Elimination System (NPDS) program, the NPDS Permit No. ILR10 for the State of Illinois, and all Local governing agency requirements. This SWPPP must be implemented at the start of construction.

Construction phase pollutant sources anticipated at the site are disturbed (bore) soil, vehicle fuels and lubriconts, chemicals associated with building construction, and building materials. Without deepute control there is a potential for each type of pollutant to be transported by Project construction will consist primarily of site grading, utility service connections, and site powing to facilitate constructions.

A. PURPOSE A major goal of pollution prevention efforts during project construction is to control soil and pollutants that originate on the site and prevent them from flowing to surface waters. The purpose of this SWPPP is to provide guidelines for achieving that goal. A successful pollution prevention program also relies upon careful inspection and adjustments during the construction process in order to enhance its effectiveness.

9. SCOPE.

This SWPP must be implemented before construction begins on the site. It primarily addresses the impact of storm rainfall and runoff on areas of the ground surface disturbed during the construction process. In addition, there are recommendations for controlling other sources of pollution that could accompany the major construction activities. The SWPPP will terminate when disturbed areas or a stabilized, permanent erasion and sedimentation controls are installed, temporary areason and sedimentation activities are installed, temporary areason and sedimentation to activities.

3. PROJECT DESCRIPTION

Described below are the major construction activities that are subject of this SWPPP. Also

EBRUGGE ENGINEERING

included in the sequence are BMP installation activities that must take place prior to construction activities. NOTE: Down alope protective measures must always be in place before soil is disturbed. Activities are presented in the order (sequence) they are expected to be completed.

All activities and time frames (beginning and ending dates) shall be noted on the Site Map. The sequence of construction is as follows:

Upon implementation and installation of the following areas: trailers, parking, lay down, porta-poty, wheel weak, concrete weekoult, mason's area, fuel and material storage containers, solid waste containers, etc., immediately denote them on the Site Maps and note any changes in location as they occur throughout the construction process.

Phase I

I Install elit fence(s) on the site (clear only those areas necessary to install silt fence).

Complete traffic control & staging areas.

Install Stream Silt Curtain.

Complete existing bridge demolition.

- Phase II
 5. Temporarily seed, throughout construction, denuded areas that will be inactive for 14 days or more.

 Install new obutments & underdrains

 Permanently stabilize areas to be vegetated as they are brought to final grade.

 Prepare roadway for bridge opproach powements.

 Prepare roadway for paving.

 Ito. Complete grading and installation of permanent stabilization over all areas including

- autots.

 11. Call Engineer after the site appears to be fully stabilized for inspection.

 12. Remove all temporary erosion and sediment control devices after approval of the Engineer and stabilize any areas disturbed by the removal of the BMP.
- NOTE: The Contractor may complete construction—related activities concurrently only if all preceding BMPs have been completely installed.

The octual schedule for implementing pollutant control measures will be determined by project construction progress and recorded by the Contractor on the Sall Eraelon/Sediment Control Operation Time Schedule on the Eraelon and Sediment Control Plans. Down alope protective measures must always be in place before sail is disturbed.

4. SITE DESCRIPTION

1. Site description
Site description
Of sittating bridge demolition, new bridge construction,
Of sittation in channel and installation of riprap &

or s mkment stabilization. Construction sequence of work shall be: a) general site clearing & bridge demolition b) new bridge construction d) creek improvements & restoration

- 3. Total area of site = 0.39 acres
 Total disturbed area on site = 0.28 acres
- 4. Estimated site runoff coefficient after construction activities are complete: CN=76.
- 5. Site map included indicating existing & proposed slopes across site is included in SWPPF
- 6. Site drainage is received by Indian Creek located under the development.

5. STORM WATER POLLUTION PREVENTION MEASURES AND CONTROLS

A variety of storm water pollutant controls are recommended for this project. Some controls are intended for function temporarily and will be used as needed for pollutant control during retention ponds (which can also function as temporary sediment bosina). Permanent stabilization will be accomplished in all disturbed areas by covering the soil with povement, building foundation, vegetation, or other forms of soil stabilization.

A. EROSION AND SEDIMENT CONTROLS

Soil Stabilization
 The purpose of soil stabilization is to prevent soil from erading and leaving the site. In the natural condition, soil is stabilized by native vegetation. The primary technique to be used at this project for stabilizing site soils will be to provide a protective cover of grass, powement, or building structure.

c) Temporary Seeding or Stabilization – All denuded areas that will be inactive for 14 days or more, must be stabilized temporarily with the use of fast-germinating annual grass/grain varieties, straw/hay mulch, wood cellulose fibers, tackfilers, netting or blankets.

b) Permonent Seeding or Sodding — All areas at final grade must be seeded or sodded within 14 days after completion of work in any area. The entire site must have permonent vegetative cover established in all areas not covered by hardscape at the completion of all soil disturbing activities on site. Except for small level spots, seeded areas should generally be protected with mulch or a rolled erosion control product. All areas to be sealed will have topsoil and other soil amendments as specified on the Landscape Plan.

DESIGNED - JJT

CHECKED -

DRAWN - ASK

DATE - 10/7/2011

seoled will have topsol and other and untertained a system or non-weven geotextile (). Sitt Fence - Sitt fence is a synthetic permecble woven or non-weven geotextile fobric incorporating metal support stakes at intervals sufficient to support the fence (5-feat maximum distance between posts), water, and sediment retained by the fence. The fence is designed to retain sediment-laden storm water and allow settlement of suspended soils before the storm water flows through the fobric and discharges off-site. Sit fence shall be forced the storm water flows through the fobric and discharges off-site. Sit fence shall be forced to the storm water flows through the fobric and discharges off-site. Sit fence shall be forced to the storm water flows through the fobric and discharges off-site of the storm water flows through the storm water flows the storm wat

b) Construction Exit — All access points from the public street into the construction shall include a construction exit composed of course stone to the dimensions shown on Existing Conditions and Demolition Plan. The rough texture of the stone helps to over clumps of soil adhering to the construction vehicles three through the action of cloth and pring over the rough surface and the friction of the stone matrix against a attached to vehicle tires. (N/A for this project)

In addition to the stone at the construction exit, it may be necessary to install devices such as pipes (cattle guard) to increase the vibration and jurring. It may also be necessary to install a wheel weak system. If this is done, a sediment trop control must be installed to treat the wash water before it discharges from the site.

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o, Storm Sewer Inlet Protection — Curb and grated inlets are protected from the intrusion of sediment through a variety of measures as shown on the details included in the Construction drawings. The principly monoinains is to place controls in the polin of flow sufficient the storm sever. It is possible that as construction progresses from storm sever installation through powing that the liniet protection devices should change. All inlet protection devices should shope. All inlet protection devices create pending of storm water. This should be taken into consideration when deciding on which device and devices should change. All inlet protection devices are should be used. (N/A for this project).

d) Inspection and any necessary cleaning of the underground detention system shall be included as part of this SWPPP.

B. OTHER POLLUTANT CONTROLS
This section includes the controls of pollutants other than sediment and additional requirements of the General Permit.

Dust Control
Construction traffic must enter and exit the site at the stabilized construction exit. Water
trucks or other dust control agents will be used as needed during construction to reduce
dust generated on the site. Dust control must be provided by the Contractor to a degree
that is in compliance with opplicable Local and State dust control regulations.

2. Solid Waste Disposal No solid materials, including building materials, are allowed to be discharged from the site with storm water. All solid weste, including disposable materials incidental to the major construction activities, must be collected and placed in containers. The containers will esten construction the containers will be provided as necessary to meet State and Local requirements. The location of solid waste receptacles shall be shown on the Site Maps.

Substances that have the potential for polluting surface and/or groundwater must be controlled by whatever means necessary in order to ensure that they do not discharge from the site. As on example, speedle care must be exercised during equipment fueling and servicing operations. If a spill occurs, it must be contained and disposed of so that it will not flow from the site or enter groundwater, even if this requires removal, treatment, and disposed of soil. In this regard, potentially polluting substances should be handled in a manner consistent with the impact they represent.

3. Sanitary Facilities All personnel involved with construction activities must comply with State and Local sanitary or septic regulations. Temporary sanitary facilities will be provided at the site throughout the construction phase. They must be utilized by all construction personnel and will be serviced by a commercial operator. The location of sanitary facilities shall be shown on the Site Map.

Non-Storm (where Discharge of site discharges are not permitted under ILR10 except as follows: discharges from fire flighting activities; fire hydron flushings; water used to wash validate, uncontained the fire flighting control to control dust probable water source which is the storm of the flighting uncontained the fire flighting to control dust probable water source washbody within does not use detergents; powerient washbody where spills or leaks of toxic or hozardous materials have not occurred (unless oil spilled material has been removed) and where detergents are not used; oir conditioning condensate; springs, uncontrol materials such as solvents.

5. Concrete Waste from Concrete Ready—Mix Trucks Discharge of excess or waste concrete and/or wash water from concrete trucks will be allowed on the construction site, but only in specifically designated diked areas prepared to prevent contact between the concrete and/or wash water and storm water that will be discharged from the site. Alternatively, waste concrete com be placed into forms to make rap or other useful concrete products. The cured residue from the concrete washout diked areas shall be disposed in occordance with opplicable State and Federal regulations. The joistle superintendent is responsible for assuring that these procedures are followed. The location of concrete washout areas shall be shown on the Site Maps.

6. Moson's Area Contractor shall identify mason's area on the site and indicate location on the Site Map. To the extent practical, all masonry tools, material, including sand and socked cement or mortar materials, and equipment shall be located within the area identified. Runoff control, such as berms or diversion dicthes, slift fence, straw watties, or other means of containment shall be provided to prevent the migration of storm water pollutants in runoff from the mason's area. Receptacles for debris and trash disposal shall also be provided.

7. Fuel Tanks

Temporary on-site fuel tanks for construction vehicles shall meet all State and Federal regulations. Tanks shall have approved spill containment with the capacity required by the applicable regulations. The tanks shall be in sound condition free of rust or other damage applicable regulations. The tanks shall be in sound condition free of rust or other damage regulatory requirements for signage, fire extinguisher, etc. Hoses, valves, fittings, caps, filler regulatory requirements for signage, fire extinguisher, etc. Hoses, valves, fittings, caps, filler tanks. The location of fuel tanks shall be shown on the Site Maps.

A Spill Prevention, Control and Countermeasure (SPCC) Plan must be developed if aboveground oil storage capacity at the construction site exceeds 1,320-galans. Containers with storage capacity, and the control of the

8. Hazardous Moterial Management and Spill Reporting Plan Any hazardous or potentially hazardous material that is bought onto the construction site will be handled properly in order to reduce the potential for storm water pollution. All materials used on this construction site will be properly stored, handled, dispensed and disposed of foliowing all applicable lobel directions. Material Safety Data Sheets (MSDS) information will be kept on site for any and all applicable materials.

In the event of an accidental spill, immediate action will be undertaken by the Contractor to contain and remove the spilled material. All hazardous materials will be disposed of by the Contractor in the manner specified by Federal, State and Local regulations and by the manufacturer of such products. As soon as possible, the spill will be reported to the propropriate agencies. As required under the provisions of the Clean Nater Act, any spill or discharge entering waters of the United States will be properly reported. The Contractor will prepare any entering regulation of the spill.

of the spill.

Any spills of petroleum products or hazardous materials in excess of Reportable Quantities as defined by EPA, shall be immediately reported to the EPA Notional Response Center of Self-Model (1997) and the spill of the Self-Model (1997) and the Self-Model (1997) a

In order to minimize the potential for a spill of petroleum product or hazardous materials to come in contact with storm water, the following steps will be implemented:

a) All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, point solvents, additives for soil stabilization, concrete, curing compounds and additives, etc.) will be stored in a secure location, under cover, when not in use.

c)A spill control and containment kit (containing for example, absorbent material such as kitty litter or sawdust, acid neutralizing agent, brooms, dust pans, mops, rags, gloves, gaggles, plastic and metal trash containers, etc.) will be provided at the storage site. d) All of the products in a contolner will be used before the container is disposed of. All such containers will be triple rinsed, with water prior to disposed. The rinse water used in these containers will be disposed of in a manner in compliance with State and Federal regulations and will not be allowed to mix with storm water discharges.

f) All products will be used in strict compliance with instructions on the product label.

g) The disposal of excess or used products will be in strict compliance with instructions on the product label.

Long Term Pollutant Controls
 Storm water pollutant control measures installed during construction, that will also provide
 storm water management benefits after construction, include turf areas in sufficient quantity
 so as to provide a site impervious ratio (ISR) or 0.76.

C. CONSTRUCTION PHASE "BEST MANAGEMENT PRACTICES" (BMPs)

During the construction phase, the Contractor shall implement the following measures:

Materials resulting from the clearing and grubbing or excavation operations shall be stockpiled up slope from adequate sedimentation controls. Materials removed to an off-site location shall be protected with appropriate controls and property permitted.

2. The Contractor shall designate areas on the Site Map for equipment cleaning, maintenance, and repair. The Contractor and sub-contractors shall utilize such designated areas. Cleaning, maintenance, and repair areas shall be protected by a temporry perimeter berm, shall not occur within 150 feet of any waterway water body or wetland, and in areas located as for as practical from storm water index.

4. Chemicals, points, solvents, fertilizers, and other toxic materials must be stored in waterproof containers. Except during application, the containers, the contents must be kept in trucks or within storage facilities. Runoff containing such material must be collected, removed from the state, treated, and disposed of at an approved solid waste and chemical disposal.

D. OFF-SITE FACILITIES IN THE OPERATIONAL CONTROL OF THE CONTRACTOR Whenever dirt, rock, or other moteroids are imported to the construction site or exported for placement in oreas of our the primary construction site, the Contractor is responsible of the contractor is responsible to the contractor of the moteroids are taken. Prior to the disturbance of ony such site, Contractor will confirm that the operators of the site they are importing to or exporting from have properly obtained all required permits, and will comply with all laws, regulations and permit conditions explicable to such alses.

At a minimum, each off-site area that provides or receives material or is disturbed by project activities must implement erosion and sediment control measures consisting of perimeter controls on all down slope and side slope boundaries and must also provide for both temporary stobilization and for permanent re-vegetation after all disturbances has ended.

In addition to this SWPPP, construction activities associated with this project must comply with any guidelines set forth by Local regulatory agencies. The Contractor shall maintain documents evidencing such compliance in this SWPPC.

5. INSPECTIONS AND SYSTEM MAINTENANCE

Between the time this SWPPP is implemented and final inspection has been approved, all disturbed areas and pollutant controls must be inspected weekly. The purpose of all inspections is to assess a superintense of processing the processing of the purpose of all inspections is to assess a superintense of processing the processing the control of the purpose of the processing the processing the control and technique them it is measure to modify this SWPPP, add or relocate controls, or revise or implement additional Best Management Practices in order to prevent poliutant from leaving the site via storm water runoff. The Contractor has the duty to cause poliutant control measures to be repaired, modified, supplemented, or take additional despe as ancessary in order to achieve effective poliutant control.

Examples of specific items to evaluate during site inspections are listed below. This list is not intended to be comprehensive. During each inspection, the inspector must evaluate overall poll control system performance as well as particular details of individual system components. Addit factors should be considered as appropriate to the circumstances.

A. CONSTRUCTION EXIT AND TRACK OUT Locations where vehicles enter and exit the site must be inspected for evidence of off-site sediment tracking. A stabilized construction exit shall be constructed where vehicles enter and exit. Exits shall be maintained or supplemented with additional rock as necessary to prevent the release of sediment from vehicles leaving the site. Any sediment deposited on the roadway and opportunities of the property o

B. SEDIMENT CONTROL DEVICES
Sediment barriers, trops and basins must be inspected and they must be cleaned out at such
Sediment barriers or in the sediment barriers or in trops and basins shall be incorporated into on-site solds or
spread out on an upland portion of the site and stabilized. Additional sediment barriers or use the
constructed on needed.

C. MATRALS STORAGE AREAS Inspections shall evaluate disturbed areas and areas used for storing materials that are exposed to rainfall for evidence of, or the potential for, pollutants entering the drainage syste or discharging from the site. If necessary, the materials must be covered or original covers must be repaired or supplemented. Also, protective berns must be constructed, if needed, in order to contain runoff from material storage areas. All State and Local regulations pertaining to material storage areas will be othered to. D. MEGETATION
Grassed areas shall be inspected to confirm that a healthy stand of grass is maintained. The
site has othered final stabilization once all areas are covered with building foundation or
powement, or have a stand of grass with a minimum of 70 percent density or greater over the
entire vegetated area in accordance with the General Permit requirements. The vegetative
density must be maintained to be considered stabilized. Area must be watered, fertilized, and
re-seceda on seeded to ochieve this requirement.

E. DISCHARGE POINTS L INJURIANCE PUNTS
All discharge points must be inspected to determine whether erosion and sediment control measures are effective in preventing discharge of sediment from the site or impacts to receiving workers.

The Inspection Report Form must identify all deficiencies, any corrections, whether they are identified during the current inspection or have occurred since the previous inspection, and any additional comments. Based on inspection results, any modification necessary to increase effectiveness of this SWPPP to an acceptable level must be made immediately but no longer than within 48 hours of inspection. The inspections reports must be complete and additional information should be included in needed to fully describe a situation. An important espect of the inspection report is the description of additional measures that need to be token to enhance place effectiveness. The inspection report and processing the inspection is provided in the complete of the inspection of the provided in the complete of the inspection of the provided in the complete of the inspection of the provided in the complete of the inspection of the complete of the complete of the inspection and specifically identify all incidents of non-completions.

The inspection Report Form must summarize the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this SWPP, and actions taken in accordance with section 4.b shall be made and retained as part of the plan for at least six years after the date of the inspection. The report shall be signed in accordance with Part VLG of the General Permit.

If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Contractor's Compliance Officer shall complete and file an "incidence of Noncompliance" ((ON) report for the identified violation. The Contractor's Compliance Officer shall us forms provided by the IEPA and shall include specific information on the cause of noncompliance, actions which were token to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted in noncompliance. All reports of noncompliance shall be simple unitarity in accordance with part V.G of the General Permit. The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Attn: Compliance Assurance Section 1021 North Grand East P.O. Box 19276 Springfield, IL 62794—9276

Ultimately, it is the responsibility of the General Contractor to assure the adequacy of site pollutant discharge controls. Actual physical site conditions or Contractor practices acould make it necessary to install more structural controls than are shown on the plans. For example, Localized concentrations of runoff could make it necessary to install additional sediment barriers. Assessing the need for additional controls and implementing them or adjusting existing controls will be a continuing aspect of this SWPP until the site achieves final stabilization. Any modifications, additions or deletions of sediment control devices must be approved by the Engineer through written communications.

A. Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed according to minimum standards and specifications in the Illinois urban manual revised February 2002.

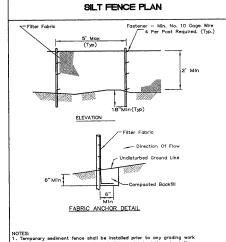
B. The kane—dupage soil and water conservation district (KDSWCD) must be notified one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activities, and one week prior to

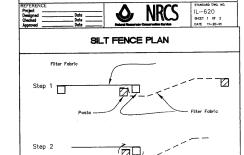
C. A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.

D. Prior to commencing land-disturbing activities in areas other than indicated on these plans (including but not limited to, additional phases of development and off-site borrow or waste areas) a supplementary erosion control plan shall be submitted to the owner for review by the KDSWCD.

F. During de-watering operations, water will be pumped into sediment basins or silt traps. de-watering directly into field tiles or stormwater structures is prohibited.

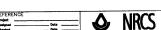
 All disturbed areas and work areas must be isolated from creek flows at all times. The diversion/isolation of the creek flows must be constructed from non-erable materials. The KCSWCD must be in agreement with overa exact method of diversion/solation prior to the commencement of construction. J. Contractor shall install silt curtains in the creek during demolition of the existing bridge.





Step 3 ATTACHING TWO SILT FENCES

OTES:
Place the end post of the second fence inside the end post of the first fence.
Rotate both posts at least 180 degrees in a clockwise direction to create a tight secure with the fabric material.
Drive both posts a minimum of 18 inches into the ground and bury the flap.



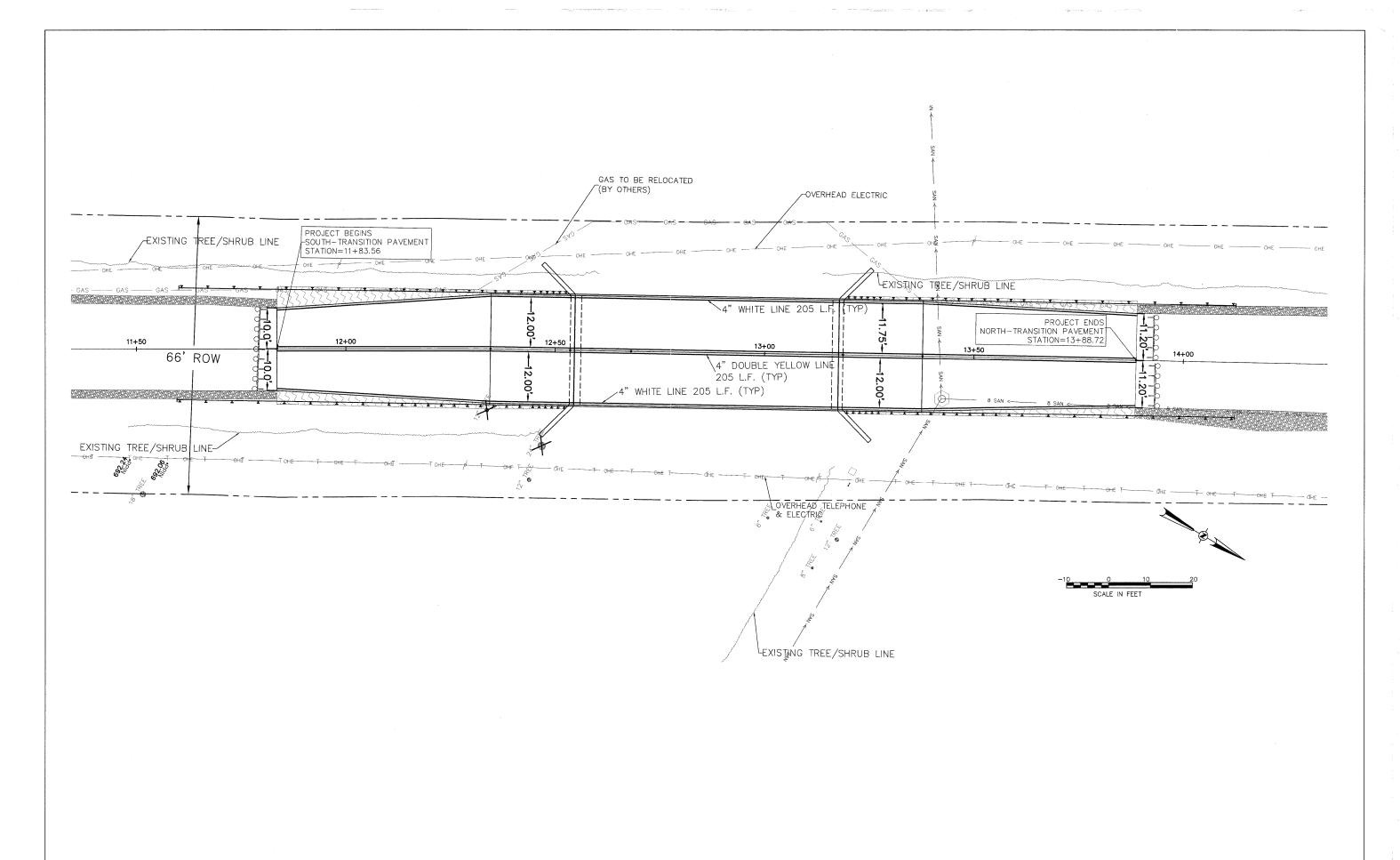
IL-620(W) SHEET 2 OF 2 DATE 1-29-99

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

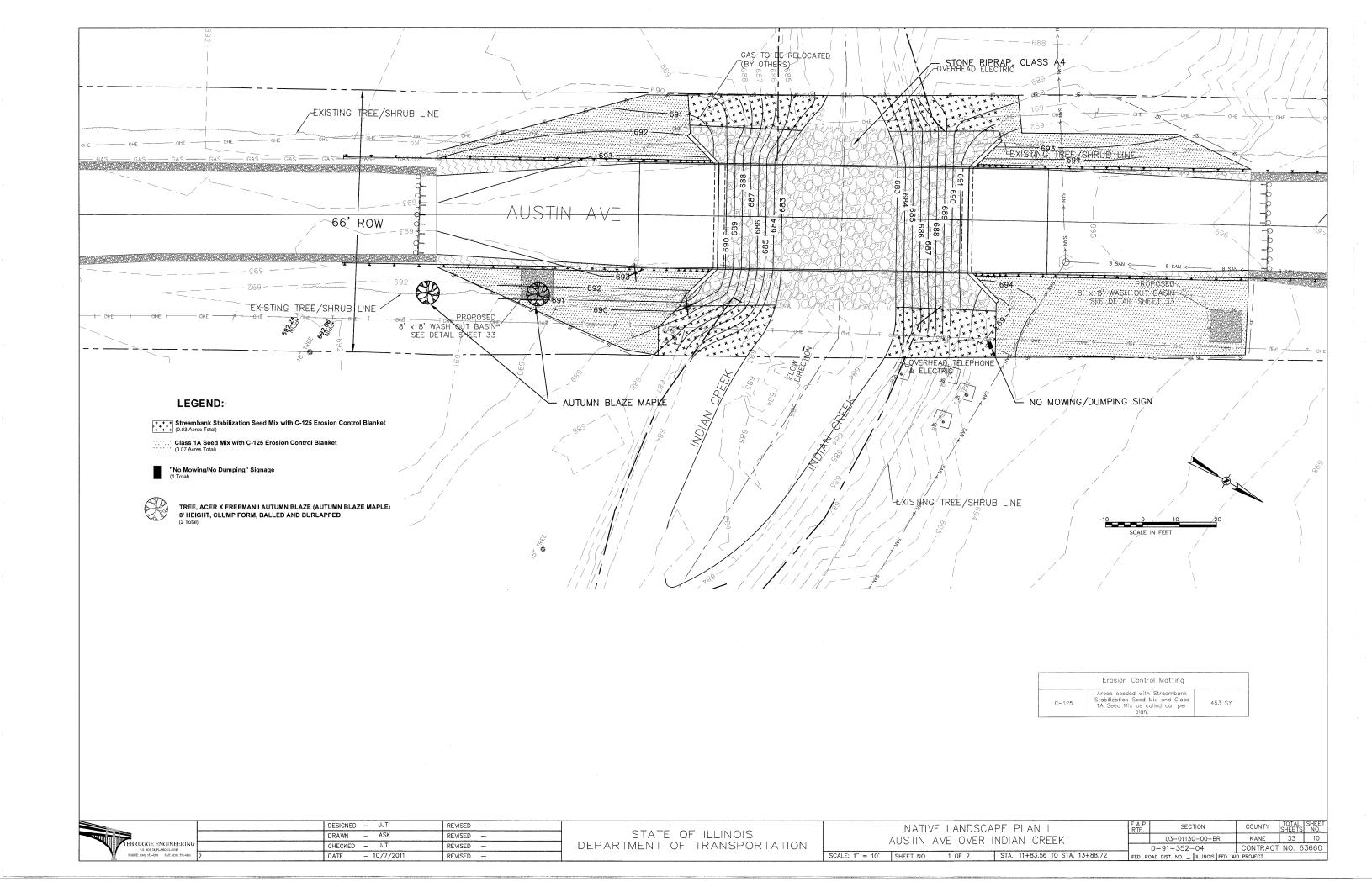
AUSTIN AVE OVER INDIAN CREEK SCALE: NONE SHEET NO. 2 OF 2 STA. 11+83.56 TO STA. 13+88.72

STORM WATER POLLUTION & PREVENTION PLAN NOTES

SECTION COUNTY 03-01130-00-BR KANE 33 8 D-91-352-04 CONTRACT NO. 63660 FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT



	DESIGNED - JJT	REVISED -		PAVEMENT MARKING PLAN	F.A.P. SECTION	COUNTY TOTAL SHEET
	DRAWN — ASK	REVISED -	STATE OF ILLINOIS	AUSTIN AVE OVER INDIAN CREEK	03-01130-00-BR	KANE 33 9
TEBRUGGE ENGINEERING P.O. BOX SI, PLANO, IL 60545	CHECKED - JJT	REVISED —	DEPARTMENT OF TRANSPORTATION	AUSTIN AVE OVER INDIAN CITEER	D-91-352-04	CONTRACT NO. 63660
PHONE: (610) 552-4390 FAX: (610) 552-4392	DATE - 10/7/2011	REVISED		SCALE: 1" = 10' SHEET NO. 1 OF 1 STA. 11+83.56 TO STA. 13+88.72	FED. ROAD DIST. NO ILLINOIS FED.	. AID PROJECT



1.0 PURPOSE

A native plant community shall be established within graded areas along Indian Creek. The vegetation shall provide bank stabilization as well as water quality benefits.

2.0 CONTRACTOR QUALIFICATIONS

The Native Landscape Contractor chosen for the establishment and enhancement of the natural area must be experienced in the restoration, installation, and management of said areas. They must have a minimum of five years experience in the field. There shall be a supervisor available at all times that can identify non-native and native plants by genus and species. The goal of installing successful native plant communities is a long-term process. Therefore, it is imperative that a qualified Native Landscape Contractor perform the initial installation and maintenance.

3.0 QUALITY AND CONDITION

- Native seed shall be obtained from sources east of the Mississippi River within the same EPA Level III Ecoregion as the project site (Central Corn Belt Plains).
- 2. Native seeds shall be blended by the vendor, and the mixture and ratio shall be guaranteed in writing to be as specified. The amount of seed indicated on the specifications shall mean the total amount of pure live seed (PLS) per acre for all species listed. It is the sole responsibility of the Native Landscape Contractor to provide approved seed that meets industry—standard PLS requirements.
- 3. Native Landscape Contractor shall provide the Aurora Township with the name and location of the seed supplier, origin of the various kinds of plants, and a statement of the purity of the seed.
- 4. Seed shall conform to applicable State and Federal regulations as in effect on the date of letting. Unless otherwise specified, seed shall not contain in excess of 1 percent weed seeds; 0 percent is desirable.
- All storage requirements, stratification, and scarification considerations shall be the sole responsibility of the Native Landscape Contractor.
- 6. Mycorrhizal inoculants shall be palletized and mixed at 1 lb. per acre with the fine seeds before installation. The inoculants shall contain a diverse mixture of Glomales fungal species (Glomus spp.) in palletized form.
- Under no circumstances shall Wheat (Triticum aestivum), Cereal Rye (Secale cereale), Perennial Rye (Lalium perenne), or Barley (Hordeum vulgare) be used as a temporary cover crop.

4.0 HANDLING

- Native Landscape Contractor shall be solely responsible for the proper handling and storage of the seed according to the best seed handling and storage practices, including fungicide treatments and stratification considerations. Owner shall make no compensation for damage to the seed because of improper storage, cleaning, threshing, or screening operations.
- 2. All native seeds shall be packed and covered in such a manner as to ensure adequate protection against damage and maintain dormancy while in transit, storage, or during planting operations.
- Seed shall be kept dry and unopened until needed for use. Seed shall not be stored or temporarily stored in locations or vehicles where the temperature will be in excess of 90 degrees F.

5.0 SITE PREPARATION

- 1. The General Contractor and Native Landscape Contractor shall be responsible for performing all work necessary to achieve and maintain an acceptable seedbed prior to seeding. All areas must be properly prepared before seeding begins. Underground utility location maps and plans should be reviewed prior to work. Equipment having low unit pressure ground contact shall be utilized within the planting areas.
- 2. Unless the Aurora Township agrees to another approach, the seedbed shall be prepared by working the topsoil to a depth of 3 inches. Site preparation equipment shall be of a design that can be utilized efficiently by the Native Landscape Contractor to meet the requirements for the work specified.
- 3. Prior to seeding, at least 6 inches of topsoil shall be present and free of all clods, stones, roots, sticks, rivulets, guillies, crusting, and cracking. The soil aggregate size will be no greater than 2 inches in the largest diameter.
- 4. If present, compacted soils shall be disked or raked prior to seeding. Remedial measures for the access area may, at the direction of the Aurora Township, involve ripping from 12 to 18 inches of the soil horizon prior to disking. If compaction is not a concern and the seedbed needs to be loosened prior to seeding to ensure good seed—soil contact, disking or raking shall be performed using equipment and the approach recommended by the Native Landscape Contractor, subject to approval by the City of Aurora.
- 5. If needed, cultivation shall occur within 24 hours prior to seeding. Seeding should occur immediately after the last cultivation preferably before a rain.

6.0 PLANT MATERIALS

Table 1. Streambank Stabilization Seed Mix

Scientific Name	Common Name Lbs	Ac Plugs	
Alisma subcordatum	Water Plantain	0.250	100
Andropogon gerardi	Big Bluestem 5.0	000	
Andropogon scoparius	Little Bluestem	5.000	
Aster novae-angliae	New England Aste	r 0.125	
Bouteloua curtipendula	Side Oats Gramme	5.000	
Carex vulpinoidea	Fox Sedge	0.500	200
Eleocharis spp	Spike Rush	0.125	
Elymus canadensis	Canadian Wild Rye 8.0	000	
Elymus villosus	Silky Wild Rye	4.000	
Elymus virginicus	Virginia Wild Rye	8.000	
Glyceria striata	Fowl Manna Grass	1.000	
Helenium autumnale	Sneezeweed	0.125	
Juncus spp	Rush Species	0.125	
Leersia oryzoides	Rice Cut Grass	1.000	200
Panicum virgatum	Switch Grass	1.000	200
Scirpus validus	Great Bulrush	0.125	100
Sorghastrum nutans	Indian Grass	10.00	
Spartina pectinata	Prairie Cord Grass	0.500	200
Agrostis alba	Red Top Grass	1.000	
Avena sativa	Seed Oats	30.00	
Lolium multiflorum	Annual Rye	10.00	
	Total 90.	875 1000	

7.0 SEED INSTALLATION

- 1. Except where site conditions preclude their use, seeding shall be performed using a Truax drill, Truax Trillion seeder, or comparable equipment designed specifically for installation of native seed. For areas where site conditions preclude the use of specialized equipment, seed may be installed through hand broadcasting and lightly raking in the seed. Hand broadcast seed shall be spread at twice the specified rate. Other methods of seed installation may be used with prior approval from the City of
- 2. Seasonal Considerations

November 1 through February 28: Less cover crop will be observed during the following spring due to frost damage.

March 1 through June 29: Seeding during this period is appropriate but germination of a portion of the seed may not occur until the following season due to lack of cold stratification to break seed dormancy. Cover crop e

June 30 through September 15: Installation of native seed should be suspended unless irrigation can be provided or unseasonably cool conditions persist. Also, any annual forbs planted with the mix during this time period may germinate but not have sufficient time to flower before fall senescence.

September 15 through October 31: Less cover crop will be observed during the following spring due to frost damage.

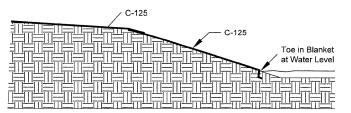
- 3. Prior to starting work, all seeding equipment shall be calibrated and adjusted to sow seeds at the proper seeding rate. In general, the optimum seeding depth is 0.25 inch below the soil surface. Areas where the seed has not been incorporated into the soil to the proper depths will not be accepied, and no compensation for materials or labor for the rejected work will be made by the City of Aurors.
- 4. Equipment shall be operated in a manner to ensure complete, uniform coverage of the entire area to be seeded and to avoid damage to existing woody plants. Any area inadequately covered, as solely determined by the City of Aurora, shall be retreated at no additional cost to the City.
- Seeding and soil tracking/firming shall not be done during periods of rain, severe drought, high winds, excessive moisture, frozen ground, or other conditions that preclude satisfactory results.
- To achieve best results, seed boxes should be kept more than one-quarter full at all times and ground speed should be no more than 2 to 3 mph.
- Native plant seed shall not receive fertilizer.
- Wet seed that is moldy or otherwise damaged in transit or storage shall not be used.

7. Seeding operations must occur when soil moisture is appropriate for seeding operatio

- 10. After seeding operation is completed, install erosion control blanket per manufacturer's specifications as necessary.
- 11. Nursery packing lists indicating the species and quantities of material installed must be provided to the City of Aurora

8.0 PLUGGING IMPLEMENTATION

- Plugs shall be installed in the spring or other date guaranteed by the Native Landscape Contracto
- 2. Plugs shall be installed on one foot centers from the toe of slope to three feet up slope
- Plugs shall be planted in a hole dug with a trowel, spade, planting bar, or suitable instrument such that the hole is of a minimum diameter and depth to accommodate the plug, with its roots, without damage.



TYPICAL CROSS SECTION N.T.S.

- 4. The soil excavated from the planting hole should be used to backfill around the plant and lightly packed to secure the roots in the soil.
- 5. If planting is delayed more than six hours after delivery, store plugs in the shade, protect from the weather and mechanical damage, and keep them moist and cool. All plugs should be planted within 24 hours of delivery.
- 6. Plugs shall be obtained from a reputable nursery or grown from seed. Plugs shall not be collected from wild populations of plants.

9.0 EROSION CONTROL

- 1. Bank grading and stabilization shall occur during periods of low flow. All areas are recommended to be covered with erosion control blanket. North American Green C-125 or equivalent will be used at a minimum within the area seeded Class 1A seed. The area seeded with the Streambank Stabilization Mix shall be covered with North American Green C-125 or equivalent. Erosion control blanket shall be installed within 24 hours after an area is seeded and trenched in at the toe of slope (or up to the edge of water if the water level is above the toe of slope at the time of planting). See manufacturer's specifications for erosion control blanket composition and installation instructions.
- 2. Use existing stone toe whenever possible

10.0 "No Mowing and/or Dumping" Signage

 No Mowing and/or Dumping" or other signage approved by the Aurora Township shall be installed along the perimeter of the native plantings as indicated on the plan to define the boundary of the naturalized area.

11.0 CLEAN-UP AND PROTECTION

- During landscape work, store materials and equipment where directed. Keep pavements clean and work areas and adjoining areas in an orderly condition.
- Protect landscape work and materials from damage due to landscape operations or operations by other trades and trespassers. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged landscape work as directed by the Aurora Township.

12.0 INSPECTIONS AND ACCEPTANCE

- The City of Aurora reserves the right to inspect all seeds and plants either at place
 of growth or at site before planting for compliance with requirements for name,
 variety, size, quantity, quality or mix proportion.
- Native Landscape Contractor is to keep records of the certificates of composition or invoices of seed mixtures and integrity of plant materials with respect to species, variety, and source after purchase.
- Native Landscape Contractor is to notify the Aurora Township within five days after completing initial and/or supplemental plantings in each area.

MONITORING AND MANAGEMENT PLAN

1.0 MONITORING METHODOLOGY

The planted area will be monitored annually for a one—year period to ensure successful establishment of the vegetation. The primary objective of the monitoring program is to track the success of the planted species over the 1—year period of regularly scheduled spring and fall monitoring sessions. The monitoring documents changes in plant community composition and reveals the need for management changes to improve floristic quality. Specific goals of the monitoring are to determine the vegetative species present, the percent cover by vegetation, and identify hydrology and erosion problems.

Monitoring within the planted area shall be conducted semi—annually utilizing a meander survey methodology. The monitoring shall identify 1) the dominant vegetative species, 2) the approximate percent vegetative coverage by native species and 3) water level or drainage problems.

Observations shall be made during the monitoring to identify specific management strategies necessary to reach design goals. Site conditions shall be photo documented during monitoring sessions.

2.0 PERFORMANCE CRITERIA

- 1. By the end of the first full growing season, the planted area shall exhibit 90% vegetative cover, primarily by species contained in the temporary erosion control seed mix. There shall be no areas greater than 0.25 square meters devoid of vegetation and 25% of the species present as measured by aerial coverage shall be native and non-invasive.
- 2. By the end of the second growing season, 90% of the ground as measured by aerial coverage shall be vegetated and 50% of the species present as measured by aerial coverage shall be native and non-invasive.
- coverage shall be native and non-invasive.

 3. By the end of the third growing season, 90% of the ground as measured by aerial coverage shall be vegetated and 75% of the species present shall be native and non-invasive. The native floristic quality index value (native FQI) must be greater than or equal to 15 as measured over the planted area. The floristic quality assessment method is described in Swink and Wilhelm, Plants of the Chicago Region.

 4. At the end of each growing season, none of the three most dominant species within
- 4. At the end of each growing season, none of the three most dominant species within the planted area shall be non-native or invasive species, including but not limited to: Purple Loosestrife (Lythrum salicaria), Reed Canary Grass (Phalaris arundinacea), White Sweet Clover (Melliotus aiba), Common Buckthorn (Rhamnus cathartica), Kentucky Blue Grass (Poa pratensis), Canada Thistle (Cirsium arvense), Honeysuckle (Lonicera sp.), Common Reed (Phragmites australis), Cattalis (Typhaspp.), or Sandbar Willow (Salix exigue).

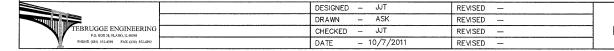
3.0 REPORTING

An annual vegetation monitoring report will be submitted to the Aurora Township and the U.S. Army Corps of Engineers by January 31st following the monitoring season each year. This report will be used to determine if the planted area is meeting performance standards. The report shall include a summary of the annual monitoring observations; a description of the management performed during the year; a list of recommendations for management during the upcoming year; and representative photographs of the planted area.

SCALE: NONE

Herbicide should be applied by a trained and licensed applicator. Non-selective 4.0 MANAGEMENT PLAN

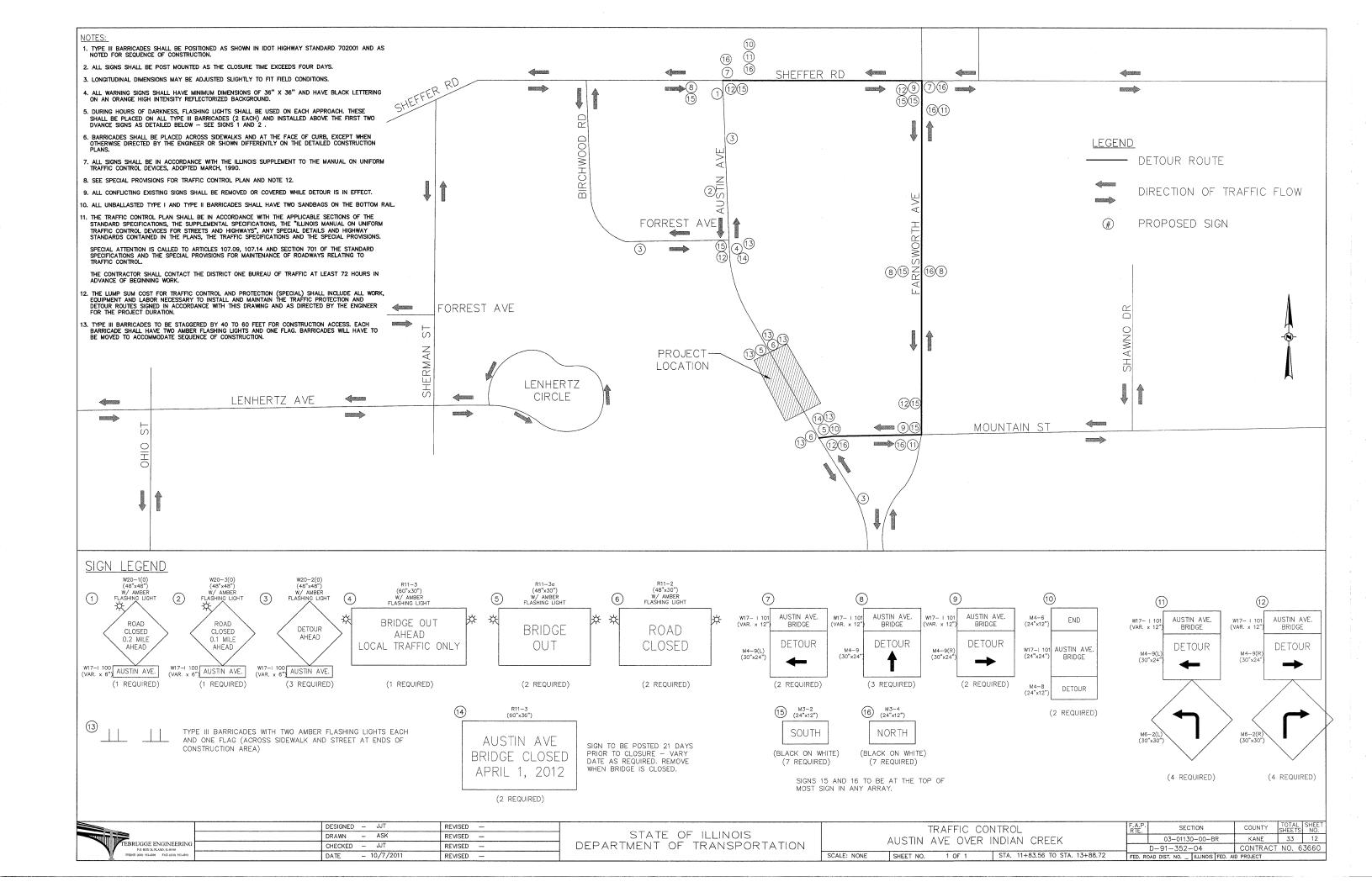
- 1. First Year. Mow the planted area to a height of 6—8 inches 2—4 times during the early growing season and as needed to control non—native and invasive species. Mowing (including weed whipping) shall take place prior to a when non—native and invasive species are flowering so as to prevent seed set. Control undesirable plant species, when present in small quantities, by hand pulling prior to the development and maturity of the plant. Hand removal shall include the removal of all aboveground and belowground stems, roots and flower masses prior to development of seeds. Apply herbicide (as necessary) to non—native and invasive species within the naturalized areas with appropriate herbicides are absorbed through the plant tissues and work their way into the root system, effectively killing the plant. The only acceptable non—selective herbicides are glyphosate based such as RoundUp, Rodeo, or Razor. The only acceptable selective herbicides (i.e. targeting broad leaf and woody plants) are 2,4—D (2,4—Dichlorophenoxyacetic acid) based or triclopyr based such as Garlon 4.
- 2. Second Year. Control of undesirable plant species during the second growing season shall consist primarily of herbicide application. Mowing (including weed whipping) shall be conducted two to four times during the early growing season and as needed to a height of 6 to 8 inches to prevent annual weeds from producing seed. This work is not part of the construction contract and will be completed by Aurora Township.
- 3. Long Term. Undesirable plant species will be controlled (as necessary) by mowing (including weed whipping), to prevent seed set of undesirable species and spot herbicide application when and where applicable. This work is not part of the construction contract and will be completed by Aurora Township.

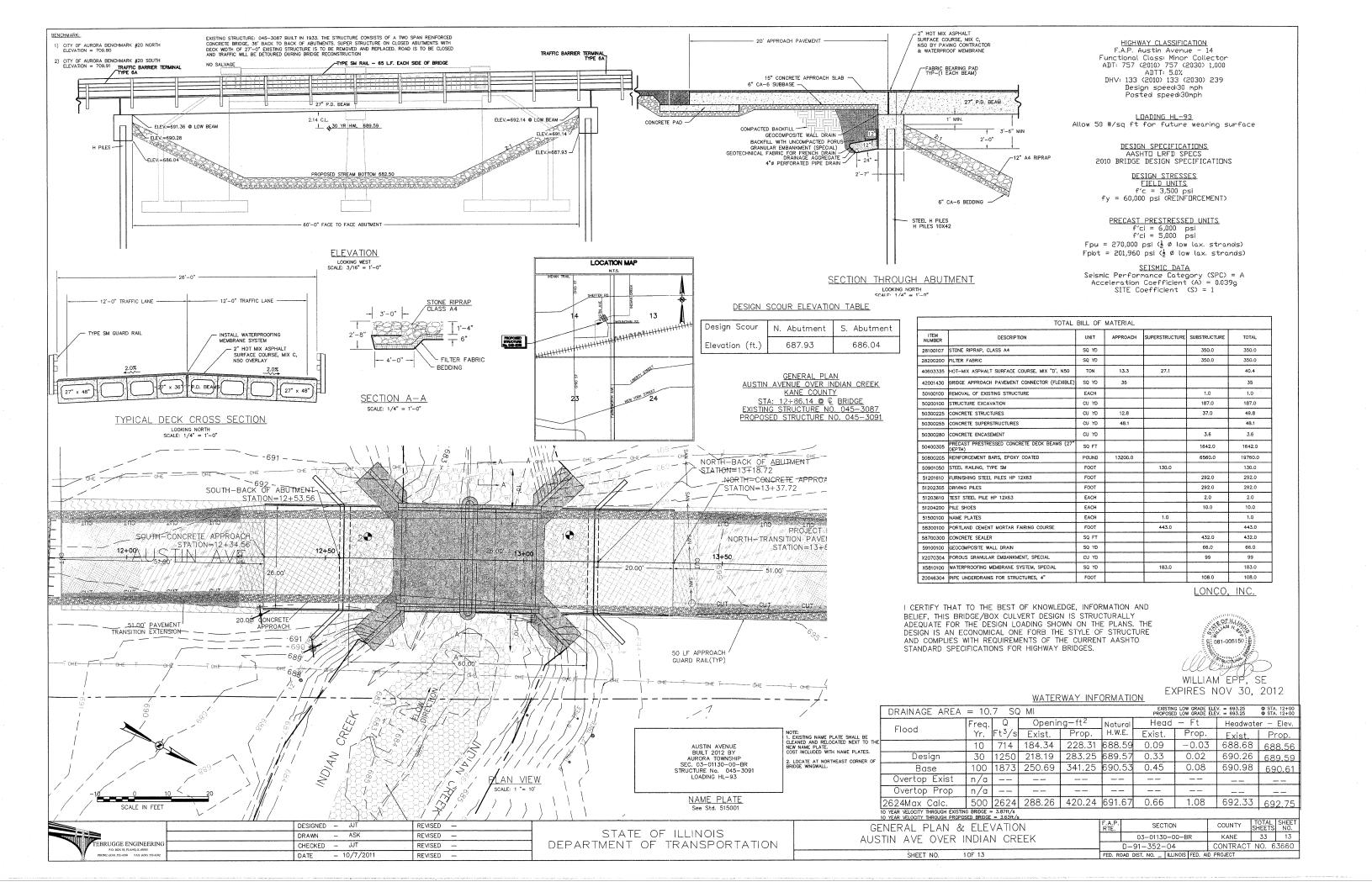


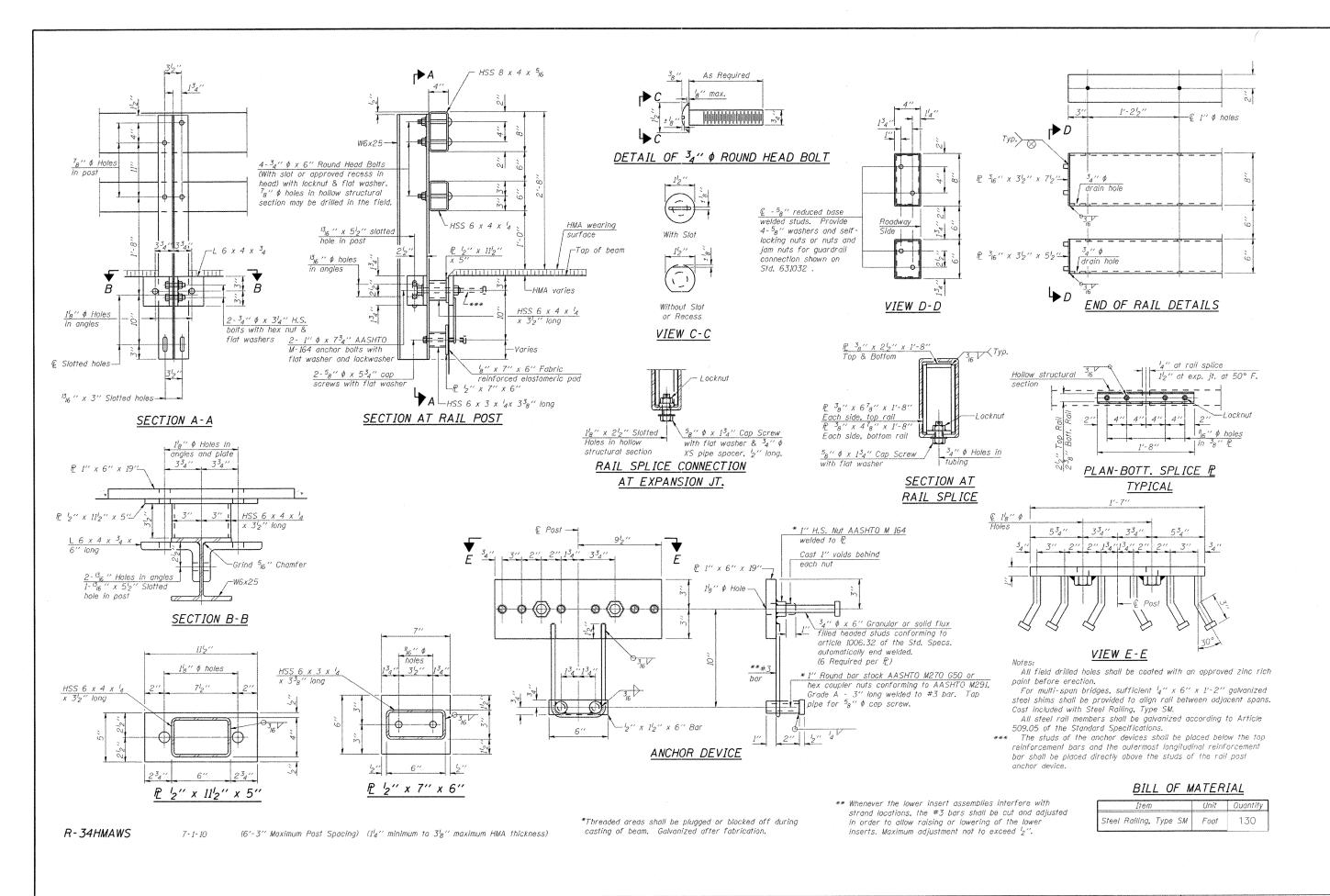
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION NATIVE LANDSCAPE II
AUSTIN AVE OVER INDIAN CREEK

I SHEET NO. 2 OF 2 STA. 11+83.56 TO STA. 13+88.72

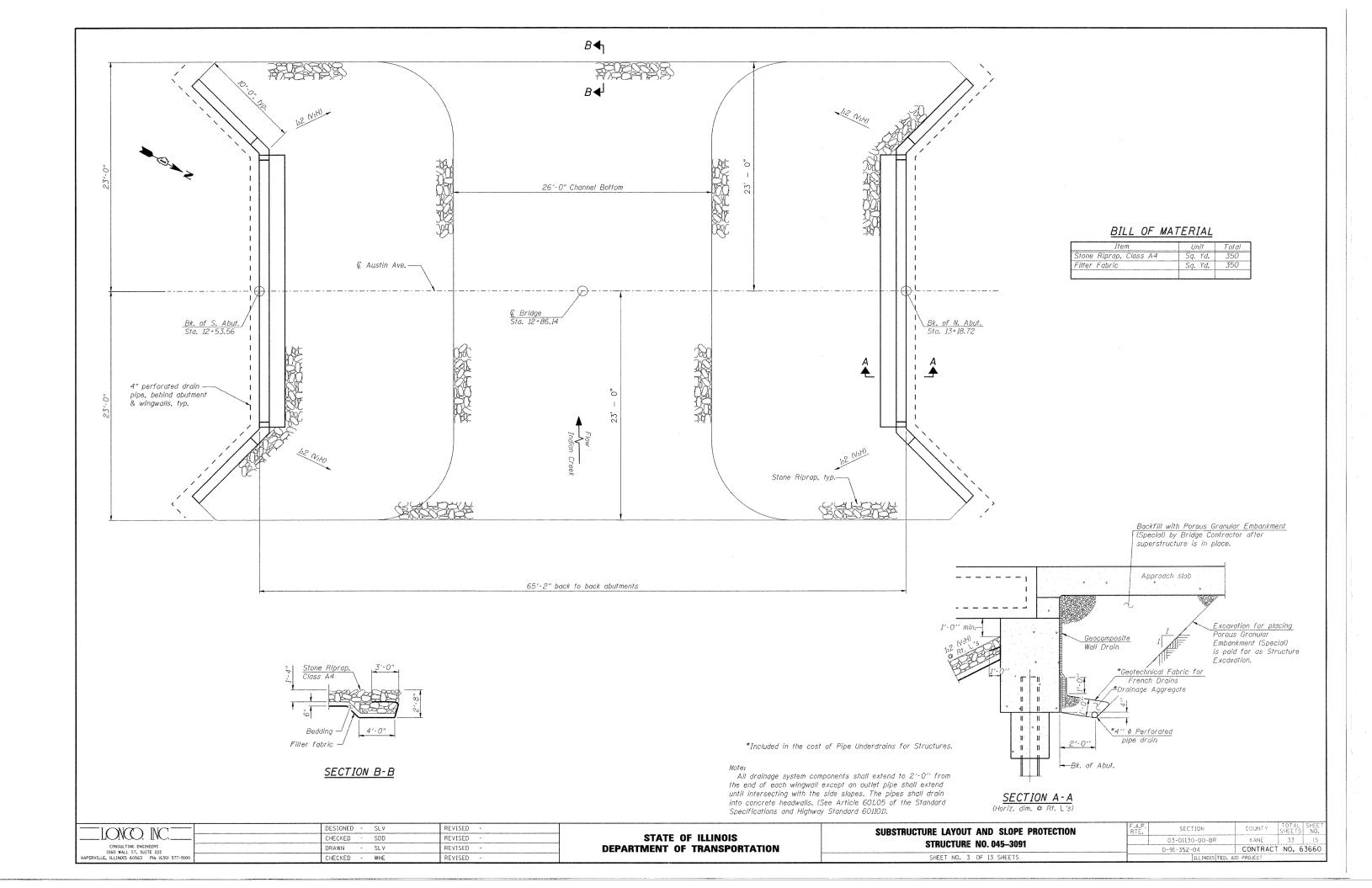
A.P.	SECTION	COUNTY	TOTAL SHEETS	NO.
03-01130-00-BR	KANE	33	11	
D-91-352-04	CONTRACT	NO.	63660	
ED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	

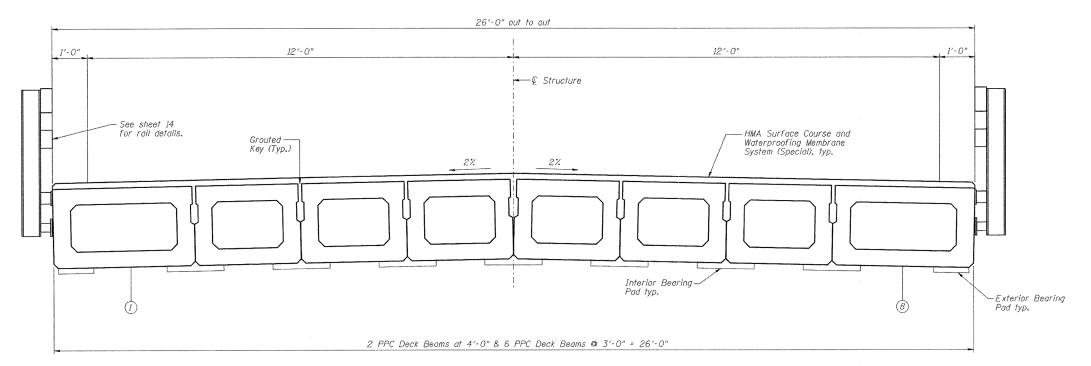




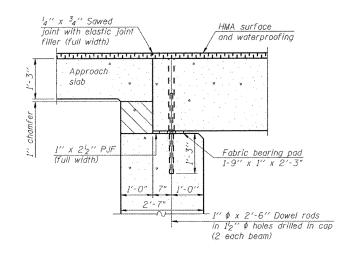


DESIGNED - SLV REVISED SECTION STEEL RAILING, TYPE SM CHECKED SDD REVISED STATE OF ILLINOIS 03-01130-00-BR **STRUCTURE NO. 045-3091** CONSULTING ENGINEERS REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 63660 DRAWN D-91-352-04 REVISED SHEET NO. 2 OF 13 SHEETS CHECKED





CROSS SECTION



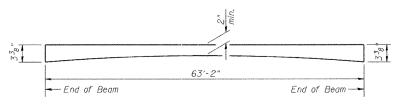
SECTION THRU FIXED ABUTMENTS

(Dimensions are at Rt. L's)

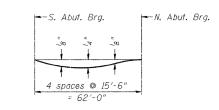
Notes

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

All horizontal dimensions are at right angles to beam ends. See sheet 18 and 20 for bearing pad details. Hatched area to be poured after beams have been erected and shear keys grouted.



BITUMINOUS WEARING SURFACE PROFILE



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of HMA only.)

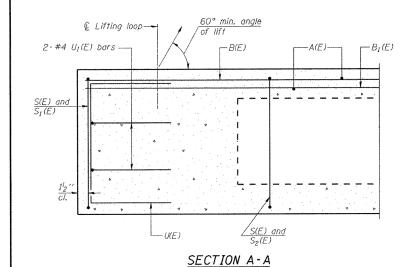
<u>NOTES</u>

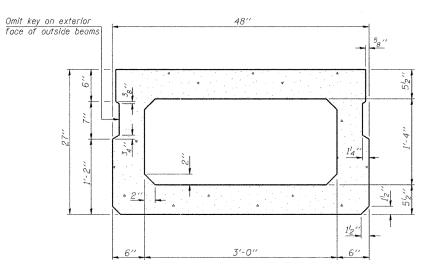
Drill and Grout bars shall be Installed according to Article 521.06 & 584 of the Standard Specifications.

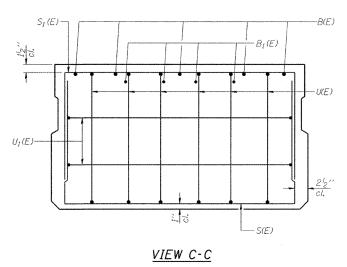
BILL OF MATERIAL

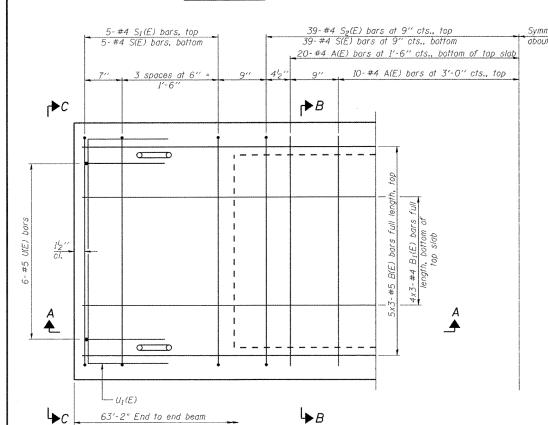
Item	Unit	Quantity
Waterproofing Membrane System (Special)	Sq. Yd.	183
Portland Cement Mortar Fairing Course	Foot	443

	DESIGNED - SLV REVISED -		SUPERSTRUCTURE DETAILS	F.A.P. SEC	CTION COUNTY TOTAL SHEET NO.
CONSULTING ENGINEERS	CHECKED - SDD REVISED - DRAWN - SLV REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 045-3091	03-0113	CONTRACT NO 63660
1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	CHECKED - WHE REVISED -	DEFARIMENT OF THANSFORTATION	SHEET NO. 4 OF 13 SHEETS	0-31-325	ILLINOIS FED. AID PROJECT

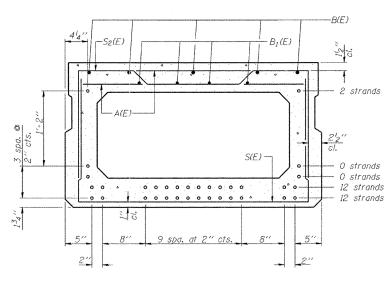








<u>SECTION B-B</u> (Showing dimensions)



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST ONE BEAM ONLY

	ion only)	informat	(For		
Shape	Length	Size	No.	Bar	
	3'-7"	#4	60	A(E)	
	22'-9"	#5	15	B(E)	
	22'-5"	#4	12	$B_I(E)$	
ـــا	7'-5"	#4	88	S(E)	
	6'-11''	#4	10	S ₁ (E)	
~~	7'-2"	#4	78	$S_2(E)$	
	4'-6"	#5	12	U(E)	
	61-011	#1	1	11.(F)	

Note: See sheet 18 for additional details and Bill of Material.

PLAN VIEW

Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

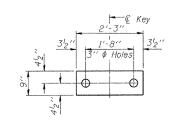
Bars indicated thus 5 \times 3-#5 etc. indicates 5 lines of bars with 3 lengths per line.

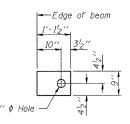
MINIMUM BAR LAP #4 bar = 2'-0" #5 bar = 2'-6"

		DESIGNED -	SLV	REVISED -
		CHECKED -	SDD	REVISED -
COMSULTING ENGINEERS 1560 WALL ST. SUITE 222		DRAWN -	SLV	REVISED -
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100		CHECKED -	WHE	REVISED ~
	······································			

	27X48	PPC	DECK	BEAMS	
	STRUC	TURE	NO. 0	45-3091	
-	CHEET	NO 5	OF 13	SHEETS	

.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	03-01130-00-BR	KANE	33	17			
	D-91-352-04	CONTRACT	NO. 6	3660			
	ILLINOIS FED. AID PROJECT						





FABRIC BEARING PAD (Interior)

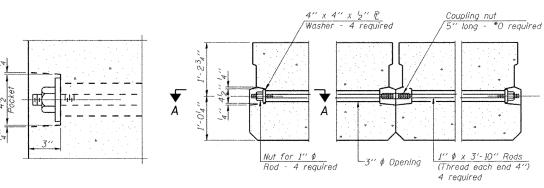
21'-3"

FABRIC BEARING PAD (Exterior)

FIXED

tie diaphragm

Notes: All bearing pads shall be 1" thick.

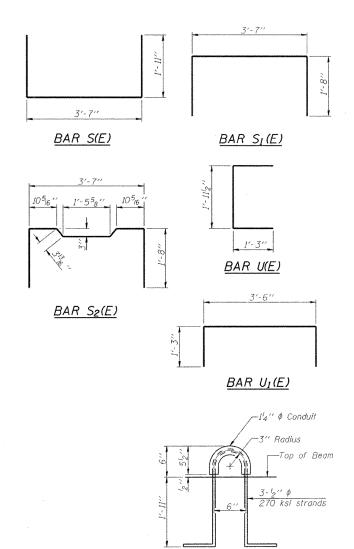


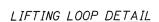
SECTION A-A

21'-3"

TYPICAL TRANSVERSE TIE ASSEMBLY

* Couplers to connect 48" wide beam to 36" wide beam is included in the 36" wide beam total, see sht, 20 for details.





KANE

33 18 CONTRACT NO. 63660

BILL OF MATERIAL

Precast Prestressed Sg. Ft. 505 onc. Deck Bms. (27"

1'-3'', ⊈ Lifting loops 1 2 each end m + m쒸 墨 0 0 1111 1111 IIII 1111 1111 101 mi i i'n 1111 $\mathbf{IIII} + \mathbf{I}_{\mathbf{B}}^{\mathbf{B}}\mathbf{I}$ IIII $m + i \frac{\pi}{n}$ 1₁₁1 1₁₁1 1111 1111 Ш 101 101 Ш 0 -0 11 111 111 $I_{ii}I_{ij}I_{i$ l d'' φ Vent holes top, typ. 11 holes bott. 1 1 typ. 0 0

€ 3" ¢ Hole for transverse

PLAN VIEW

63'-2"

Exterior

Note: Connect beams in pairs with the transverse tie configuration shown.

typ.

7" € 2" \$ Holes for dowel rods, each end

<u>NOTES</u>

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $^{l}_{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in. The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).

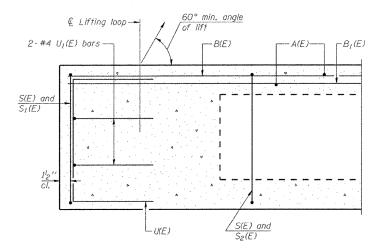
Two 'g'' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum $2 \frac{1}{2} \sqrt{\theta}$ lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(bX12) and 1021.06 of the Standard Specifications, shall be used

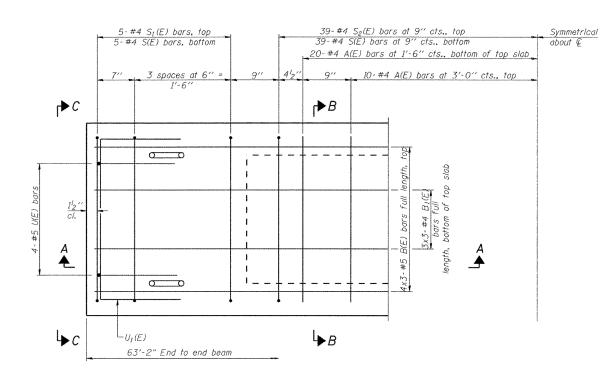
in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

	DESIGNED - SLV	REVISED -		27X48 PPC DECK BEAM DETAILS	F.A.P. SECTION
	CHECKED - SDD	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 045-3091	03-01130-00-BR
CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	DRAWN - SLV	REVISED -	DEPARTMENT OF TRANSPORTATION	SINUCIONE NO. 043-3031	D-91~352-04
NAPERVILLE, ILLINOIS 60563 PM: (630) 577-9100	CHECKED - WHE	REVISED -		SHEET NO. 6 OF 13 SHEETS	ILLINOIS FED.



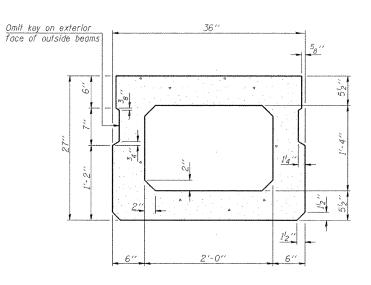
SECTION A-A



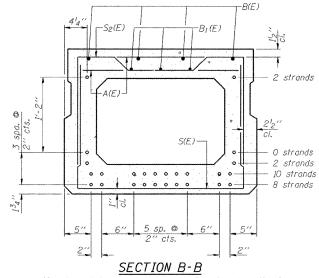
PLAN VIEW

Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Bars indicated thus 4 \times 3-#5 etc. indicates 4 lines of bars with 3 lengths per line.



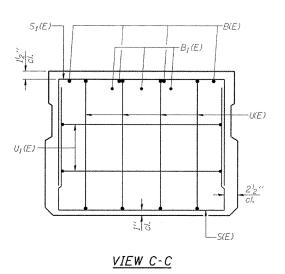
SECTION B-B (Showing dimensions)



(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row
symmetrically about the centerline of beam in the
permissible strand locations shown.

MINIMUM BAR LAP

#4 bar = 2'-0'' #5 bar = 2'-6''



BAR LIST ONE BEAM ONLY

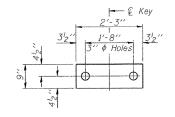
	ion only)	informat	(For	
Shape	Length	Size	No.	Bar
	2'-7"	#4	60	A(E)
	22'-9"	#5	12	B(E)
	22'-5"	#4	9	$B_1(E)$
	6'-5"	#4	88	S(E)
	5′-11′′	#4	10	$S_I(E)$
<u></u>	6'-2"	#4	78	S ₂ (E)
	4'-6''	#5	8	U(E)
	5'-0"	#4	4	$U_{\ell}(F)$

Note: See sheet 20 for additional details and Bill of Material.

	DESIGNED	-	SLV	REVISED -
	CHECKED	-	SDD	REVISED -
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DRAWN	-	SLV	REVISED -
	CHECKED	-	WHE	REVISED -

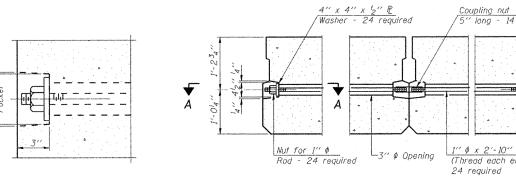
27X36	PP	C	DEC	K	BEAMS	
STRUC	TUF	E	NO	. 0	45–3091	
SHEET	NO.	7	OF	13	SHEETS	

Ρ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-01130-00-BR	KANE	33	19
	D-91-352-04	CONTRACT	NO. 6	3660
	ILLINOIS FED. A	D PROJECT		

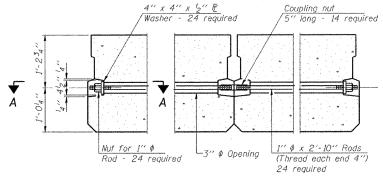


FIXED FABRIC BEARING PAD

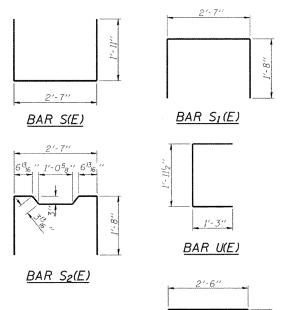
All bearing pads shall be 1" thick.



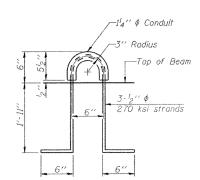
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY







BAR U1(E)

LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast	Prestres	sed		Ca.	<i>E</i> +	1137
Conc. D	eck Bms.	(27"	depth)	<i>5y</i> .	F 1.	1151

21'-3" 21'-3" 20'-8" <u>€ Transverse</u> tie diaphragm 1'-3". € Lifting loops | 2 each end © 3" ¢ Hole for transverse tie assemblies क्षां ! क्षां 1111 | 1111 冊 册 **'** 0 1111 ! 1111 IIII ! i_ni ! iii 1111 $I_{\mathrm{H}} \vdash \mathrm{HH}$ 1₁₁1 | 1111 1₁₁1 | 1111 $\eta_0 = \eta_0$ 1111 Ш 1,1 iji iii 101 101 淵 1111 Ü # 0 m + q $\mathbf{m} + \mathbf{m}$ $m_1 + m_1$ l d'' \phi Vent top, typ. 1111 1111 typ. 1111 0 1111 1111 Connect to 48" wide beam, typ. 7"! € 2" # Holes for dowel 18'-8" 17'-9" 2'-6" 63'-2"

PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $^{1}2^{\prime\prime}$ and the nominal cross-sectional area shall be 0.153 sq. in. The 1'' ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads

set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

<u>NOTES</u>

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).

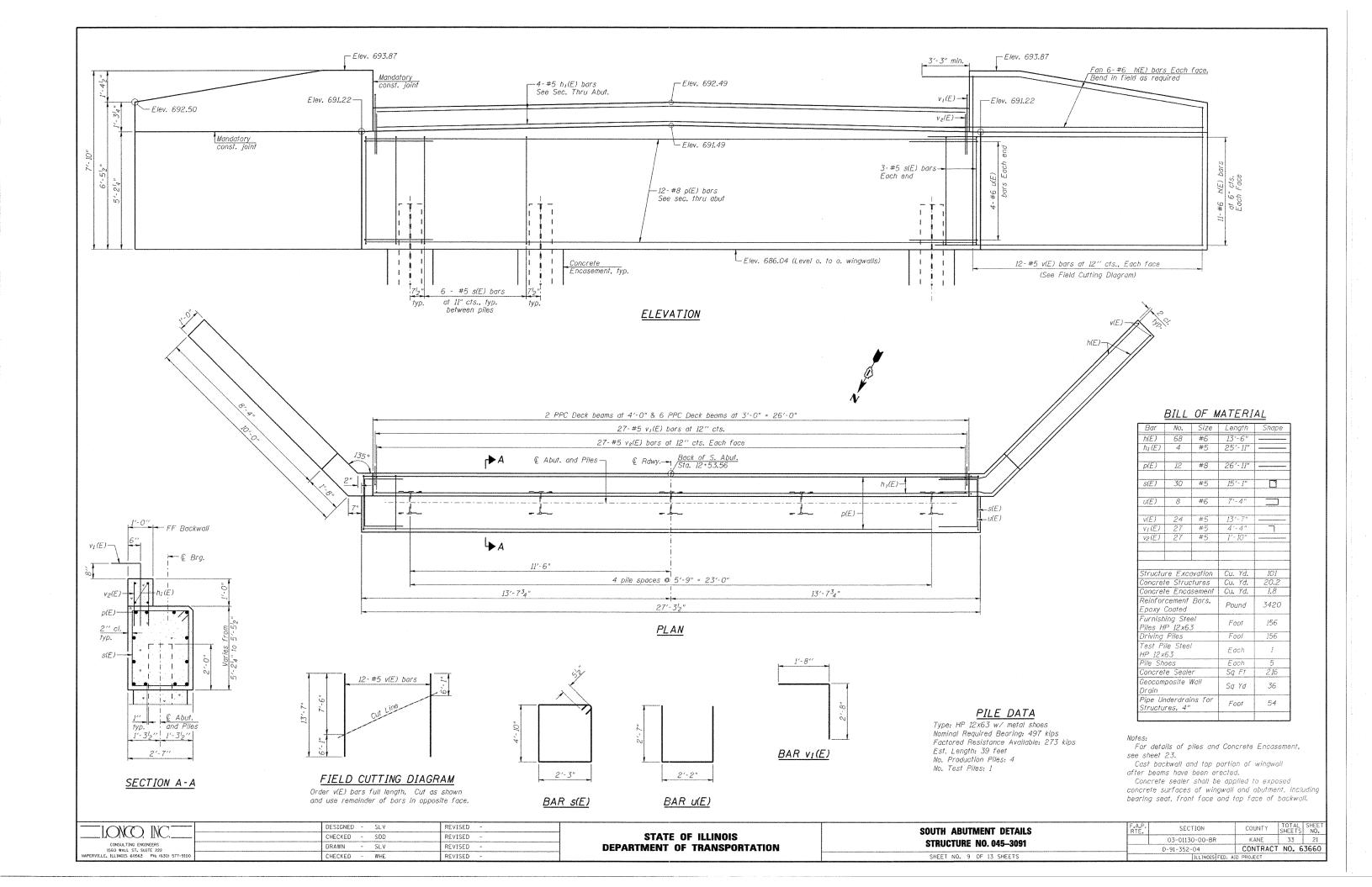
Two $^{1}8^{\prime\prime}$ fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

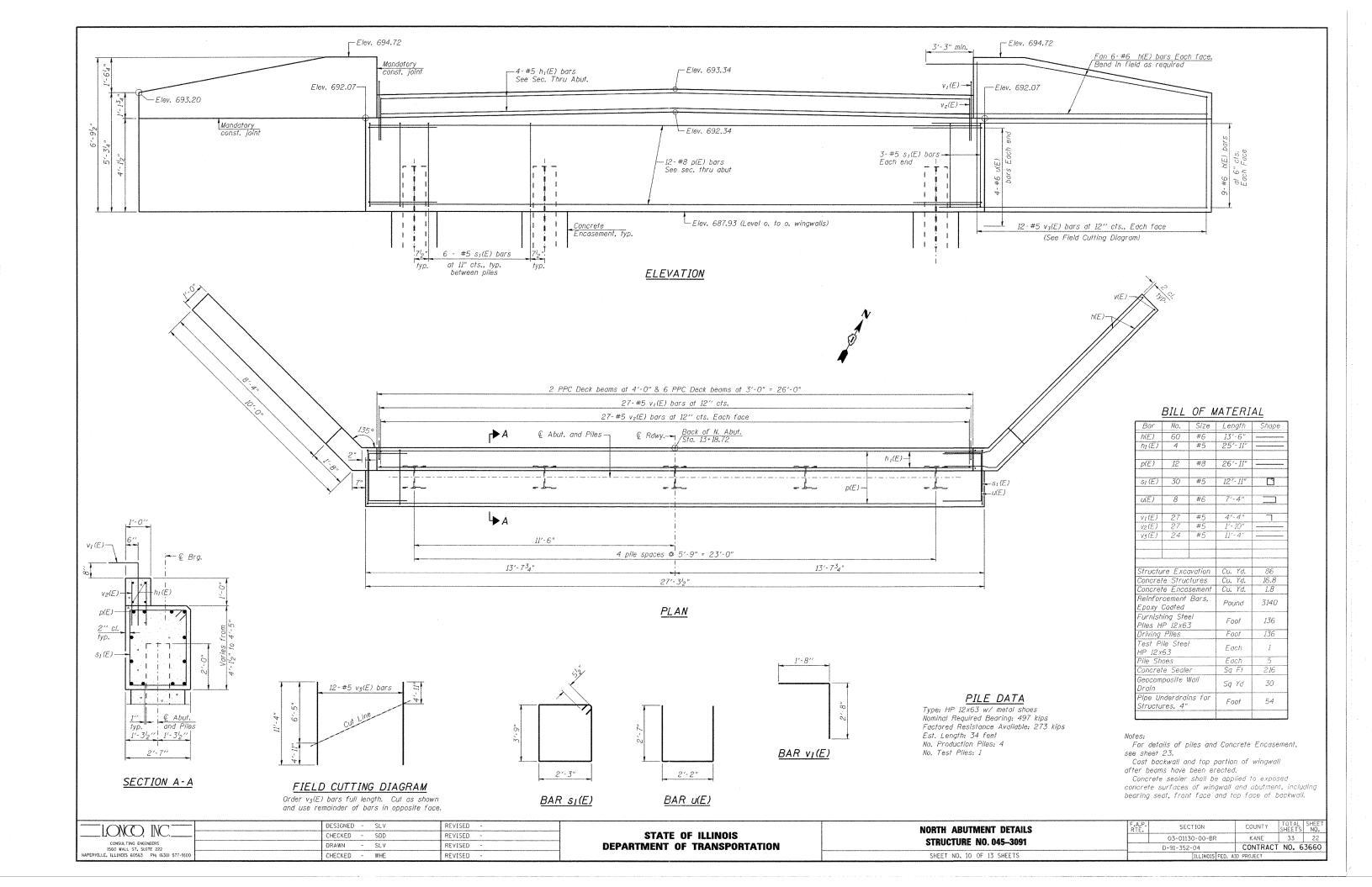
A minimum $2!_2^{\prime\prime}$ ϕ lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

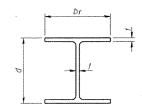
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

	DESIGNED - SLV	REVISED -		27X36 PPC DECK BEAM DETAILS	F.A.P. RTE.	SECTION	COUNTY	SHEETS	NO.
	CHECKED - SDD	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 045-3091		03-01130-00-BR	KANE	33	20
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH; (630) 577-9100	DRAWN - SLV CHECKED - WHE	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 8 OF 13 SHEETS		D-91-352-04 ILLINOIS FED.	AID PROJECT	T NO. 6	3660

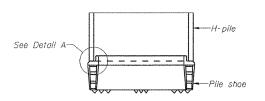




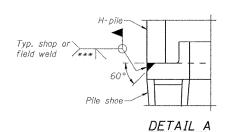


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	144"	14 ⁷ 8"	¹³ 16 ′′	30′′
x102	14''	1434''	11/6''	30''
x89	137 ₈ ′′	1434"	5 ₈ ′′	30′′
x73	13 ⁵ 8′′	1458''	2"	30′′
HP 12x84	124"	124''	116''	24''
x74	1218''	124"	5 _{8′′}	24''
x63	12''	1218''	2"	24''
x53	11 ³ 4''	12''	7 ₁₆ ''	24''
HP 10x57	10''	1014''	916''	24''
x42	934''	1018''	7 ₁₆ ′′	24''
HP 8x36	8''	818''	716''	18''



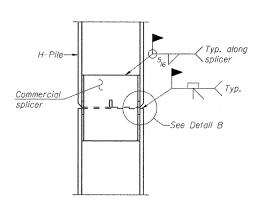
ELEVATION

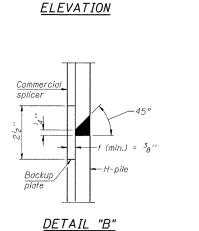


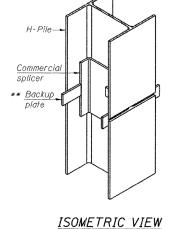
F-HP

7-1-10

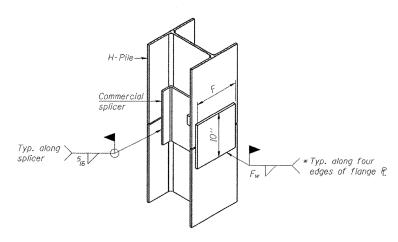
H-PILE SHOE ATTACHMENT







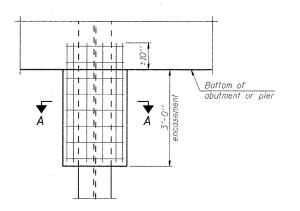
WELDED COMMERCIAL SPLICE

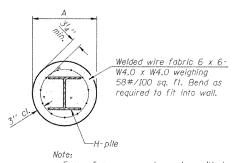


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds $^{l}_{4}$ " from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (${}^{5}_{l6}$ ${}^{\prime\prime}$ min.).



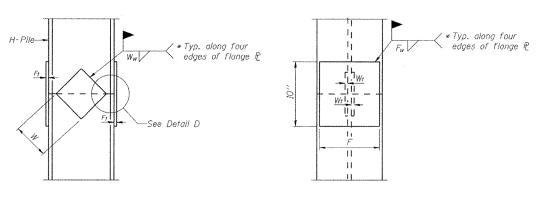


Forms for encasement may be omitted when soil conditions permit.

ELEVATION

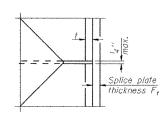
SECTION A-A

PILE ENCASEMENT



ELEVATION

END VIEW



DE	TA	ĪL	D

*****************************	Committee Association and Association Committee Committee Committee Committee Committee Committee Committee Co					
Designation	F	Ft	Fw	W	W _f	Ww
HP 14x117	12'2''	1"	78''	734''	5 ₈ ′′	2"
×102	12'2''	78''	34''	734"	⁵ 8 ′′	2"
x89	1212''	34''	1/16''	734''	5 ₈ ′′	2"
x73	12'2''	58''	9,6 ''	734''	5 ₈ ′′	2"
HP 12x84	10′′	78′′	1/6''	62''	58''	2"
x74	10′′	78''	1/6′′	612"	5 ₈ ′′	2"
х63	10′′	5 ₈ ′′	2"	62"	2"	38''
x53	10''	58''	12"	62''	2"	38''
HP 10x57	8′′	34"	916 ''	54"	2"	38''
x42	8′′	5 _{8′′}	916 ''	5 ^l 4''	2"	38''
HP 8x36	7''	5 ₈ ′′	7 ₁₆ ′′	414"	12"	38''

WELDED PLATE FIELD SPLICE

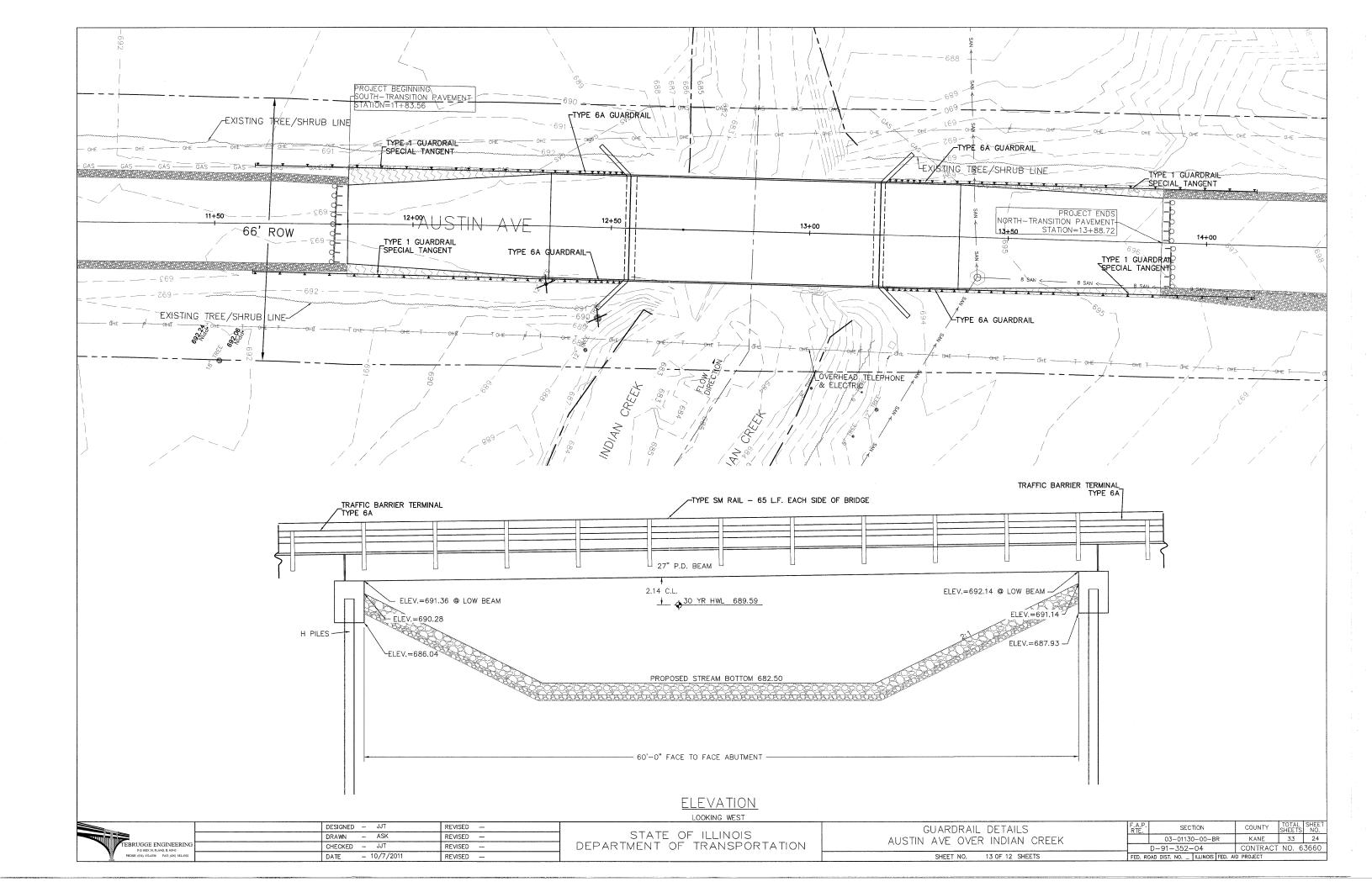
Note: The steel H-piles shall be according to AASHTO M270 Grade 50.

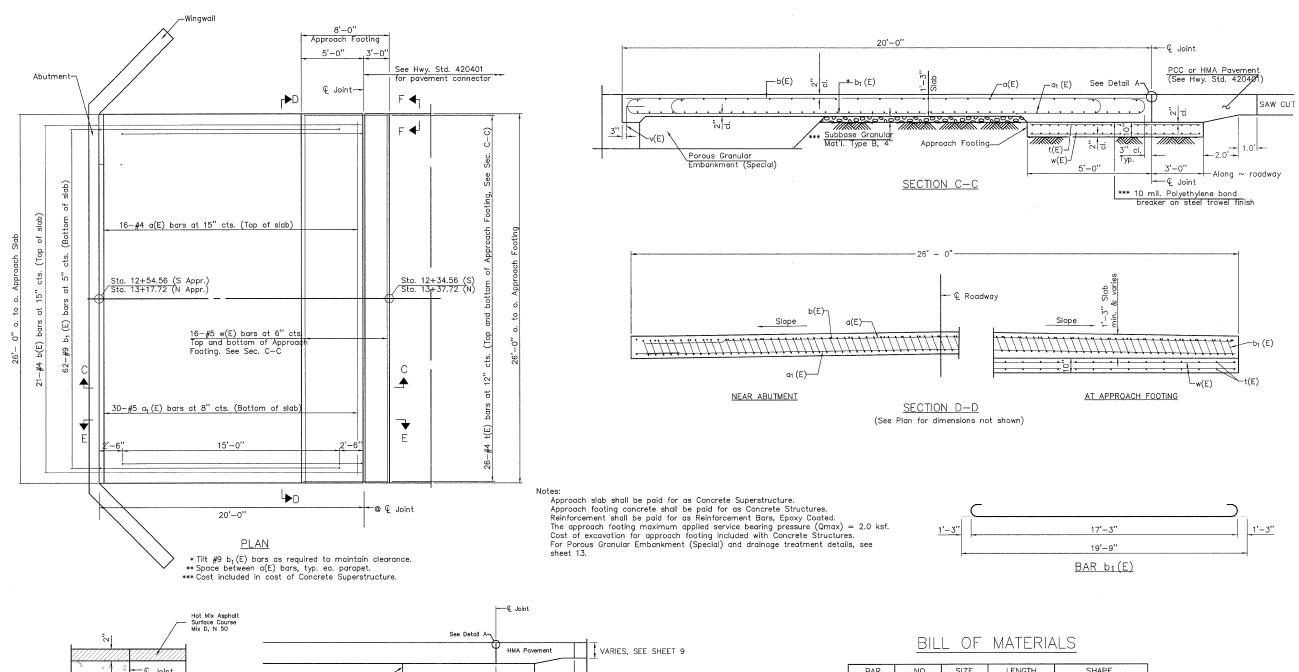
DESIGNED - SLV REVISED SDD REVISED CHECKED -DRAWN SLV REVISED CHECKED

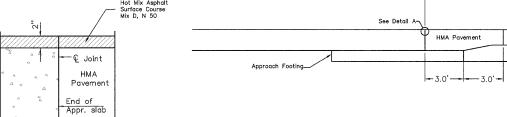
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

HP PILE DETAILS STRUCTURE NO. 045-3091 SHEET NO. 11 OF 13 SHEETS

TOTAL SHEE SHEETS NO. COUNTY SECTION KANE 03-01130-00-BR CONTRACT NO. 63660 D-91-352-04







BRIDGE APPROACH PAVEMENT CONNECTOR DETAIL

GENERAL NOTES:

- 1. SEE STANDARD 421001 FOR REINFORCEMENT DETAILS
- 2. SEE STANDARD 420001 FOR JOINT DETAILS
- 3. SEE PLANS FOR DETAILS OF BRIDGE APPROACH FOOTING AND PREFORMED JOINT.

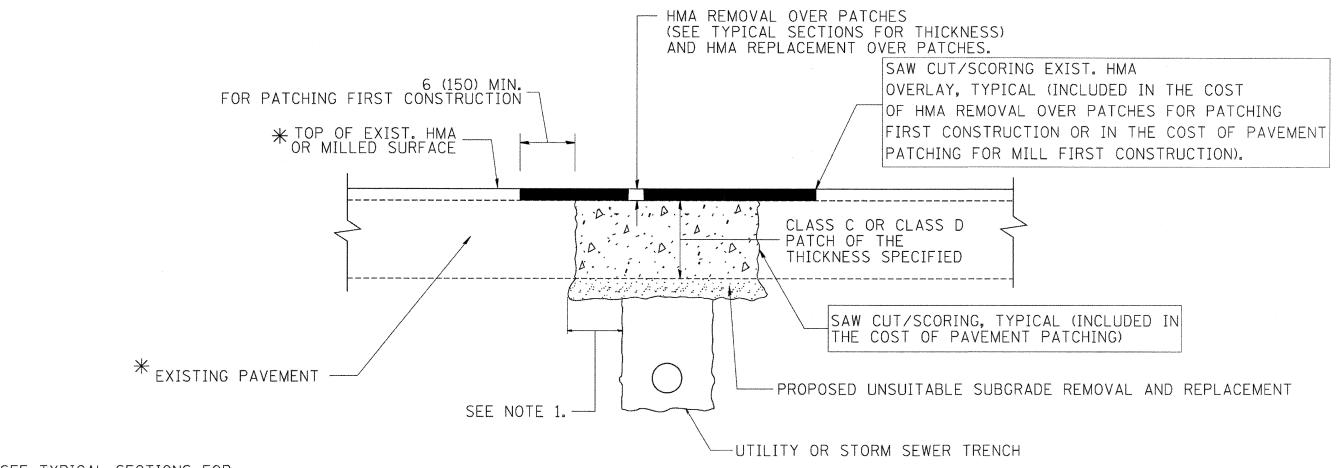
BAR	NO.	SIZE	LENGTH	SHA	PE
			25'-8"	311/	
a (E)	32	#4		-	
a1(E)	60	#5	25'-8"		
b (E)	42	#4	19'-8"		
b1(E)	124	#9	19'-9"	<u> </u>	
t (E)	104	#4	7'-8"		
w (E)	64	#5	25'-8"		
	l	L	l		
CONCRET	E STRUCTU	RES		CU. YD.	12.8
REINFORG	CEMENT BAI	RS, EPOXY	COATED	POUND	13,200
CONCRET	E SUPERST	RUCTURE		CU. YD.	48.1

	DESIGNED	-	JJT	REVISED	
	DRAWN		ASK	REVISED	
TEBRUGGE ENGINEERING	CHECKED	_	JJT	REVISED	
PHONE: (630) 552-4390 FAX: (630) 552-4392	DATE	_ 1	0/7/2011	REVISED	****

DETAIL A

AF	PRO	ACH P	AVEMEN	1T
AUSTIN	AVE	OVER	INDIAN	CREEK
	SHEET	NO	13 OF 13 SH	FFTS

F.A.P. RTE.		SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	03	-01130	0-00-B	R	KANE	33	25
	D-91-	-352-	-04		CONTRACT	NO. 6	3660
FED. RO	DAD DIST.	NO	ILLINOIS	FED. A	ID PROJECT		



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: VERT. NONE

CHECKED BY

DESIGNED - JJT REVISED -DRAWN - ASK STATE OF ILLINOIS REVISED -REVISED -

DISTRICT ONE DETAILS AUSTIN AVE OVER INDIAN CREEK

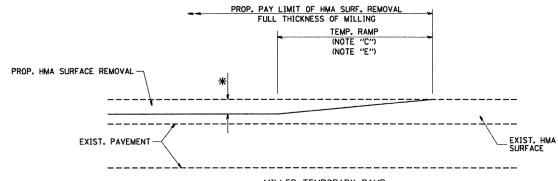
1 OF 4 SHEETS

SHEET NO.

_								
	F.A.P. RTE.	SEC.	TION			COUNTY	TOTAL SHEETS	SHEE NO.
		03-01130	0-00-B	R	I	KANE	33	26
		D-91-352-	-04		T	CONTRACT	NO. 6	3660
	FED. R	OAD DIST. NO	ILLINOIS	FED. /	ND	PROJECT		

BRUGGE ENGINEERING CHECKED - JJT - 10/7/2011 REVISED

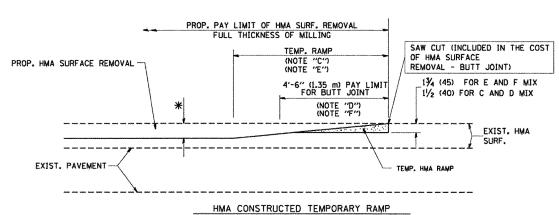
DEPARTMENT OF TRANSPORTATION



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

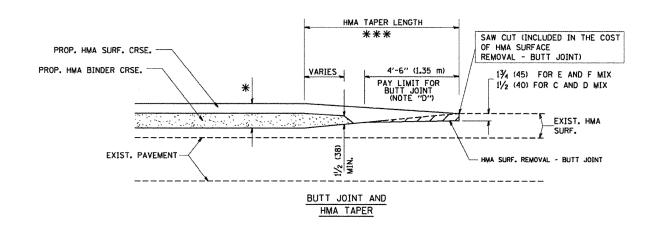
OPTION 1



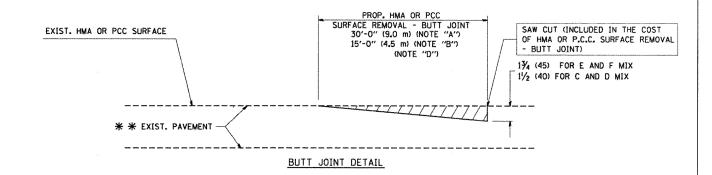
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

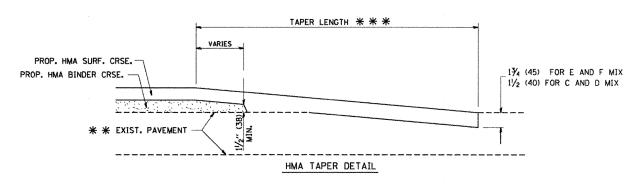
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

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

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

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

BASIS OF PAYMENT:

REVISIO	SNC
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

DRAWN BY CHECKED BY

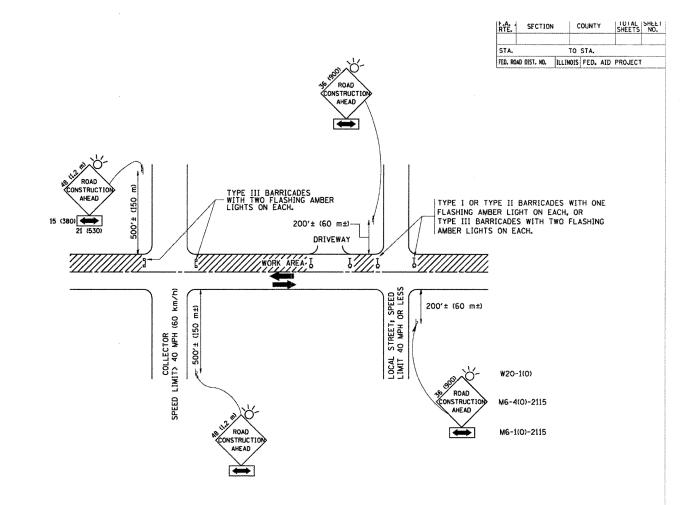
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SOUARE YARD (SOUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

Mayora	DESIGNED - JJT	REVISED —	
	DRAWN ASK	REVISED	STATE OF ILLINOIS
TEBRUGGE ENGINE P.O. BOX 38, PLANO, IL 6954	CHECKED - JJT	REVISED —	DEPARTMENT OF TRANSPORTATION
PHONE: (626) 552-4190 FAX: (636)	DATE - 10/7/2011	REVISED —	

DIS	STRIC	T ONE	DETAIL	S	
AUSTIN	AVE	OVER	INDIAN	CREEK	

2 OF 4 SHEETS

F.A.P. RTE.	SECTION			COUNTY	TOTAL	SHEET NO.
	03-01130-00-BR			KANE	33	27
D-91-352-04			CONTRACT	NO. 6	3660	
FED. R	DAD DIST. NO	ILLINOIS	FED. A	D 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:
- O) 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 ROLITE.
- 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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-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 SIGN FORD LAMF 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.

REVISIO	NS
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
	L
	L

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION
FOR
SIDE ROADS, INTERSECTIONS, AND

DRIVEWAYS

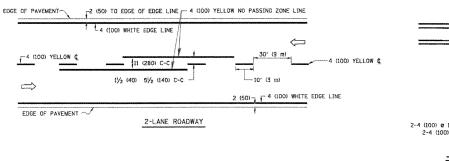
SCALE: NONE

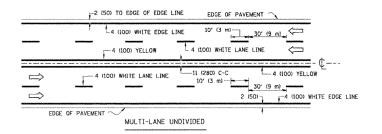
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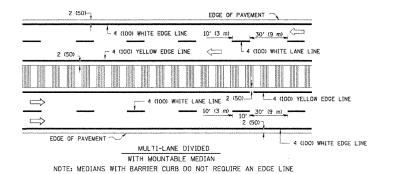
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE DETAILS AUSTIN AVE OVER INDIAN CREEK

SHEET NO. 3 OF 4 SHEETS

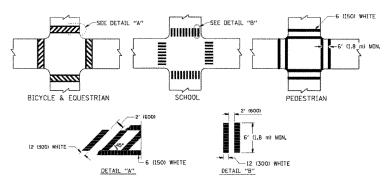




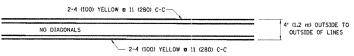




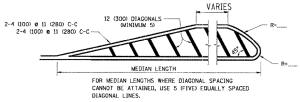
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



4' (1.2 m) WIDE MEDIANS ONLY

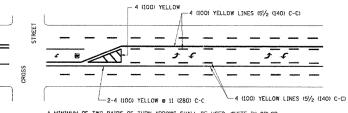


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))

75' (25 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h))

150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

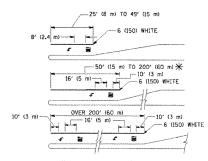


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

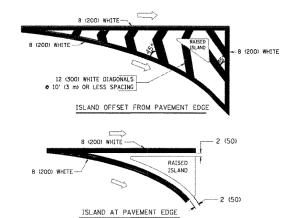


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. $\ref{eq:harman}$ AREA = 15.6 SO. FT. (1.5 m²) $\ref{eq:harman}$ AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	B' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (500) APART 2' (500) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 & 4 (100) WITH 12 (300) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	e 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) & 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h) 1150' (45 m) C-C (0YER 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.

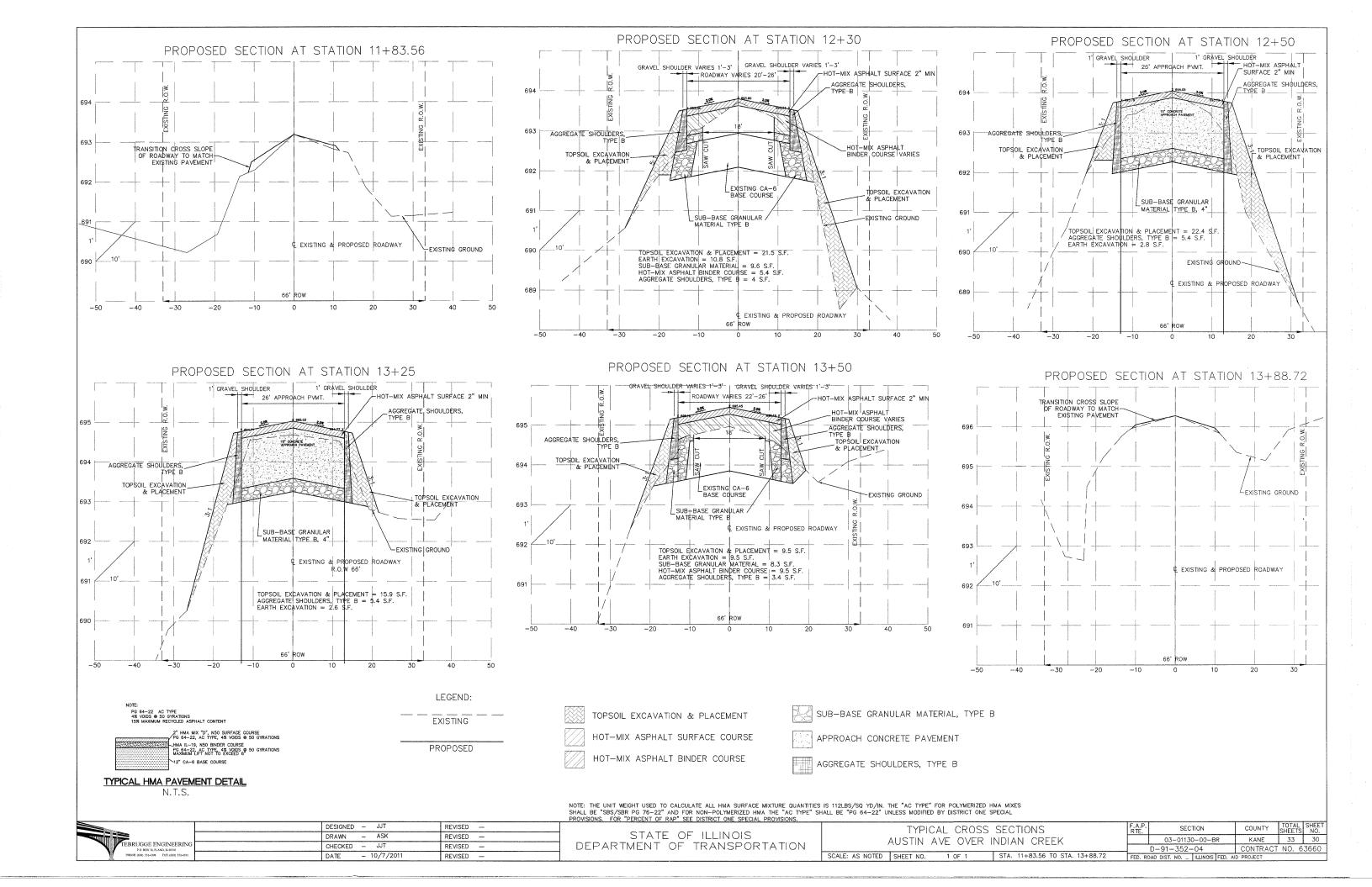
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION				
NAME	DATE	ILLINOIS DEFANI	MENT OF TRANSPORTATION			
EVERS	03-19-90					
T. RAMMACHER	10-27-94	רכות	TRICT ONE			
C. JUCIUS	09-09-09					
		TYPICA	AL PAVEMENT			
		6.4	ARKINGS			
		Iγι	ARKINGS			
		SCALE: NONE	DRÁWN BY CADD			
		SCALES NONE	URAWN BT CAUD			
			CHECKED BY			

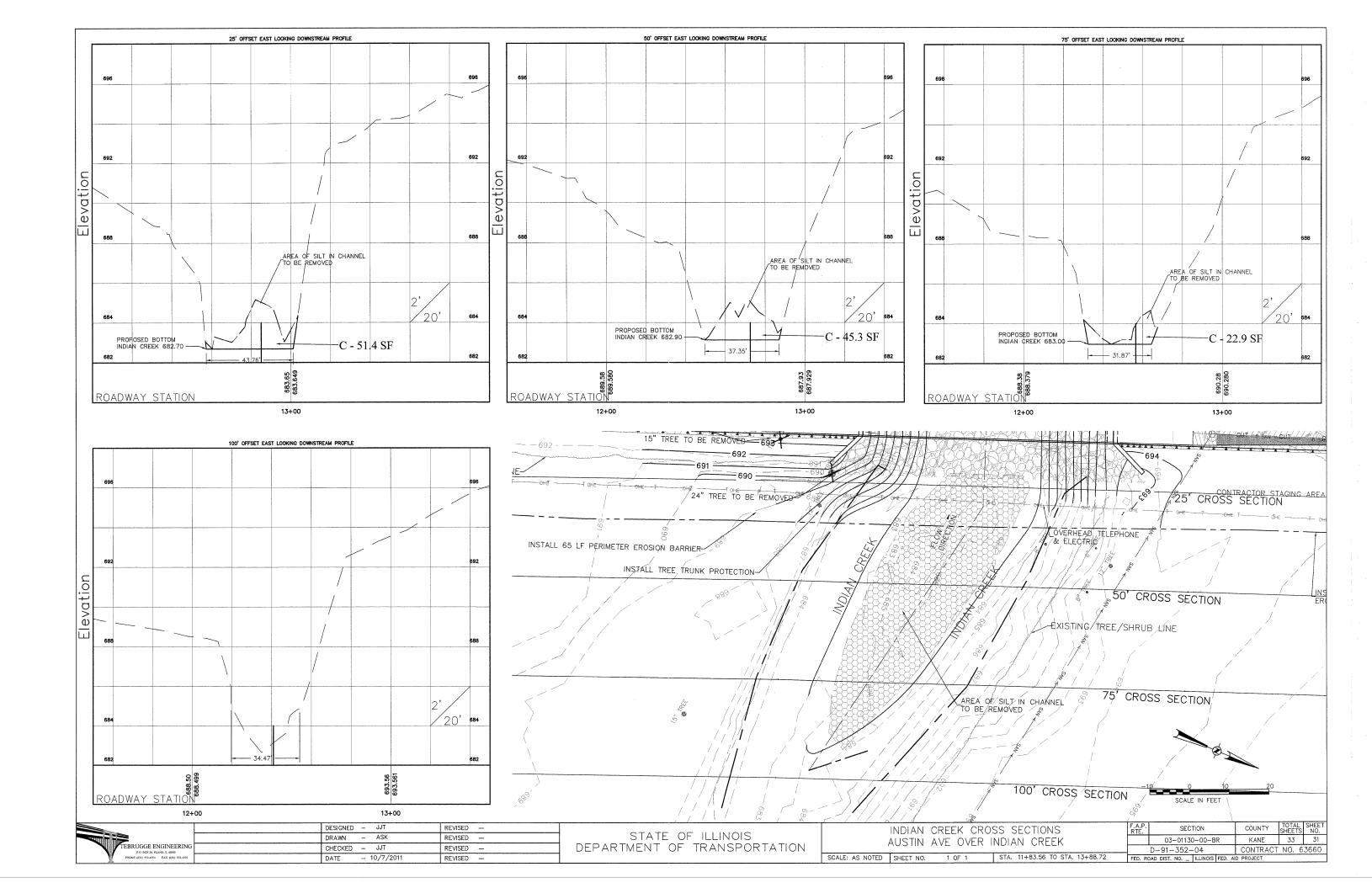
	DESIGNED	_ JJT	REVISED -
TEBRUGGE ENGINEERING	DRAWN	- ASK	REVISED -
TEBRUGGE ENGINEERING	CHECKED	JJT	REVISED —
PHONE (G0) 552-4390 PAX: (G0) 552-4392	DATE	- 10/7/2011	REVISED -

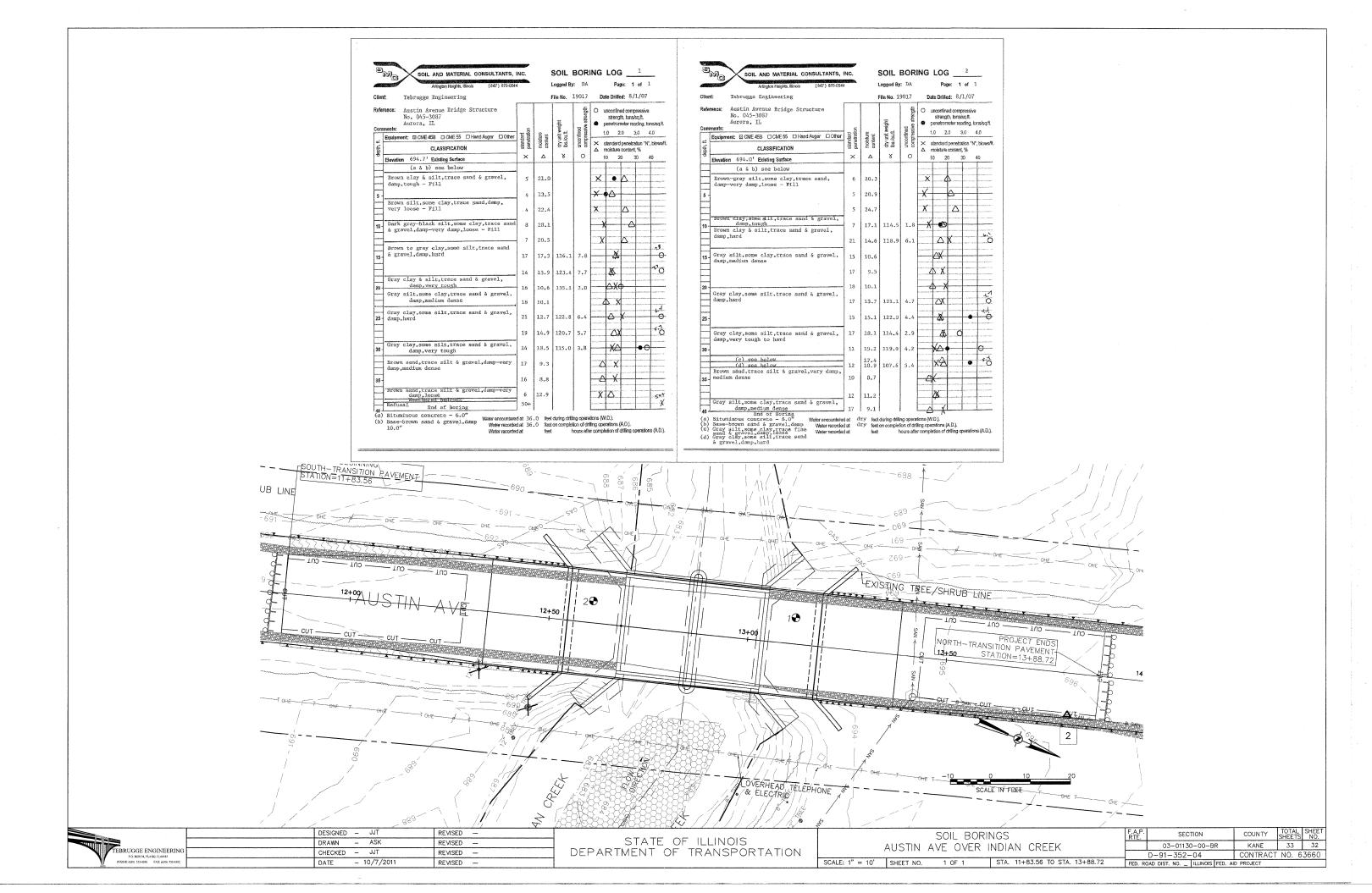
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE DETAILS AUSTIN AVE OVER INDIAN CREEK

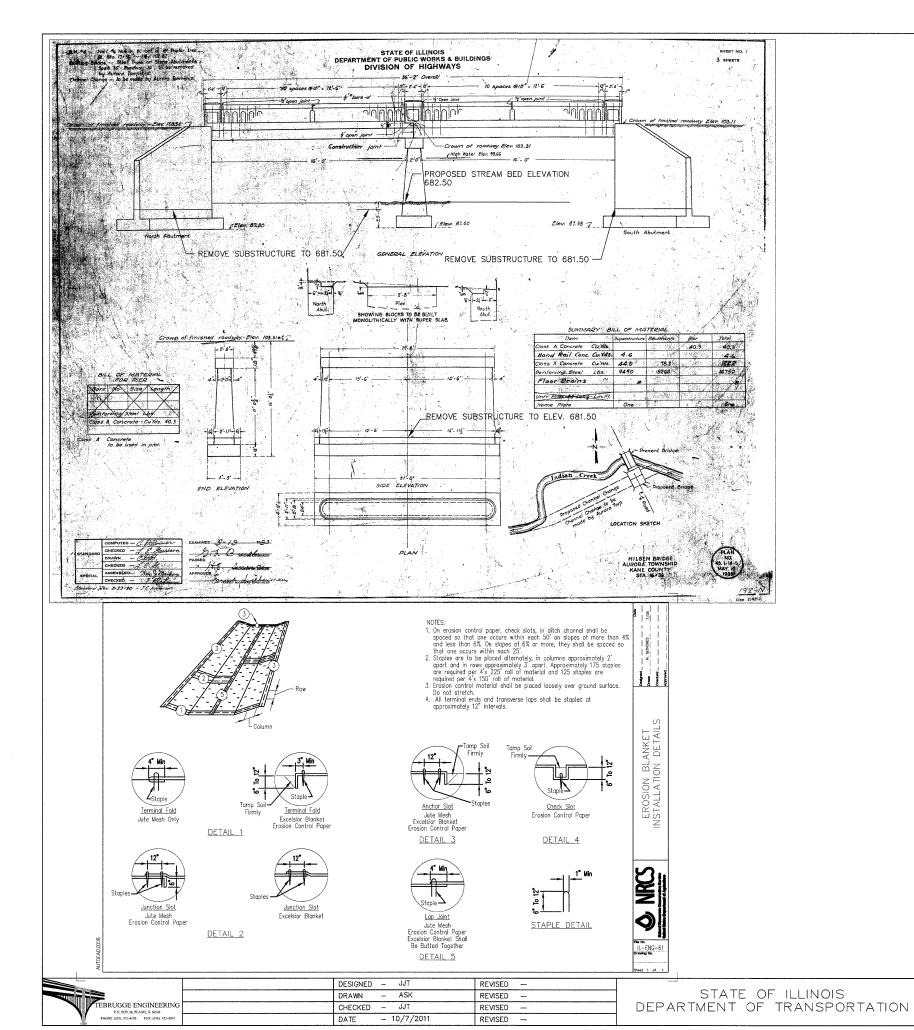
SHEET NO. 4 OF 4 SHEETS

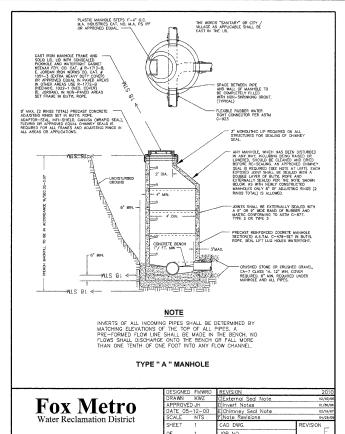
F.A.P. RTE.	SECTION				COUNTY	TOTAL SHEETS	SHEET NO.
	03-01130-00-BR				KANE	33	29
D-91-352-04				CONTRACT	NO. 6	3660	
FED. R	DAD DIST. NO	ILLINOIS	FED.	AID	PROJECT		



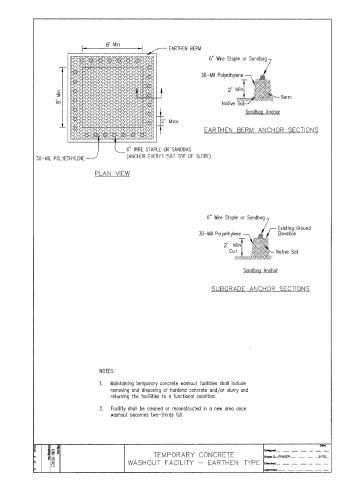








NOTE: CONTRACTOR SHALL CONTACT FOX METRO WATER RECLAMATION DISTRICT IN ADVANCE OF WORK TO ADJUST MANHOLE FRAME & GRATE & SCHEDULE INSPECTION FOR DISTRICT PERSONNEL TO OBSERVE WORK ON DISTRICT FACILITIES.



MISCELLANEOUS DETAILS						
Δ	AUSTIN AVE	OVER IN	IDIAN CRE	EK		
SCALE: NONE	SHEET NO. 1	OF 1	STA. 11+83.56	TO STA. 13+88.72		

	F.A.P. RTE.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.	
		03-01130	KANE	33	33	
_		D-91-352-	-04	CONTRACT	NO. 6	3660
FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT						