11-21-14 LETTING ITEM 034

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	1
	ILLINOIS	CONTRACT NO. 63761		

80 + 1 = 81

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL–AID HIGHWAY
WILLIAMS ROAD
MORRIS COURT TO BATAVIA ROAD
BRIDGE REMOVAL AND REPLACEMENT
SECTION 09–00030–00–BR
PROJECT NUMBER: BRM–4003(344)
CITY OF WARRENVILLE
DUPAGE COUNTY
JOB NUMBER: C–91–515–10

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

WILLIAMS ROAD
396(30) LOCAL ROAD 0.12 (FD–20)
ADT: 2,350 (2009)
ADT: 4,400 (2030)
POSTED SPEED: 30 MPH
DESIGN SPEED: 30 MPH

PROJECT LOCATED IN CITY OF WARRENVILLE

LOCATION OF SECTION INDICATED THUS: –

SE 1/4 SECT. 27
T39N, R9E, 3RD PM, WINFIELD TOWNSHIP

LOCATION MAP (SCALE 1" = 1000')
TOTAL GROSS AND NET LENGTH OF PROJECT = 1,254 FEET (0.238 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED _____ 8/14/2014
SUPERINTENDENT OF PUBLIC WORKS, CITY OF WARRENVILLE

PASSED _____ Sept 4, 2014
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW September 4 2014
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

DATE: August 14, 2014	DATE: August 14, 2014
BY: Luke Martin	BY: Timothy V. Weidner
LUKE MARTIN	TIMOTHY V. WEIDNER
LICENSE EXPIRES: NOVEMBER 30, 2014	LICENSE EXPIRES: NOVEMBER 30, 2015
SHEETS: 35 – 58	SHEETS: 1 – 34, 59 – 80
SEAL: LICENSED STRUCTURAL ENGINEER · LUKE C. MARTIN 081.007429 · STATE OF ILLINOIS	SEAL: TIMOTHY V. WEIDNER · 59549 · LICENSED PROFESSIONAL ENGINEER · OF ILLINOIS

RS&H IMPROVING YOUR WORLD

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (630) 466–6700

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100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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.

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Simply Call 811

CONTRACT NO. 63761

FEDERAL AID PROGRAM ENGINEER FAWAD AQUEEL, P.E. 847-705-4021 SCHAUMBURG, IL
CONSULTING ENGINEER: ENGINEERING ENTERPRISES, INC. CONTACT: TIMOTHY V. WEIDNER 630-466-6700

Plotted: 7/30/2014 4:36:33 PM By: JSchmidt

Path: H:\SDSdPro\WW0801-Micro\Dgn\Dgn Final Eng\WW0801-Cvr.dgn

INDEX OF SHEETS

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442201-03	CLASS C AND D PATCHES
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SUPPLEMENTAL LEGEND

SEE IDOT HIGHWAY STANDARDS FOR ADDITIONAL INFORMATION

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT TO BE REMOVED
- HOT-MIX ASPHALT SURFACE REMOVAL
- EXISTING CONCRETE CURB AND GUTTER AND SIDEWALK TO BE REMOVED
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- EXISTING CURB OR CURB & GUTTER
- PROPOSED CURB OR CURB & GUTTER
- W — PROPOSED WATER MAIN (HDD)
- PROPOSED SANITARY FORCE MAIN (OPEN CUT)
- PROPOSED SANITARY FORCE MAIN (HDD)

STORM SEWER STRUCTURE AND PIPE NOTATION

STRUCTURE TYPE	CB TY C, 2' DIA.	DIAMETER
FRAME & GRATE/LID TYPE	W/ TY IIV FR & GR	
	13+50, 15.58' LT	STATION & OFFSET
RIM OR	TC 674.64	
CURB (TC) ELEVATION	INV N,S 670.53, 12"	INVERT DIRECTION, ELEVATION & SIZE

PIPE DIAMETER	12" SS TY 1	SEWER TYPE
MATERIAL	PVC SDR 26	MATERIAL CLASS
LENGTH	8' @ 1.00%	SLOPE
TRENCH BACKFILL QUANTITY	TB 1.3 CY 2'	TRENCH BACKFILL LENGTH

WATER MAIN STRUCTURE AND PIPE NOTATION

STRUCTURE DESCRIPTION	VALVE VAULT	
STRUCTURE TYPE,	A-1C 5' DIA.	DIAMETER
FRAME & LID TYPE	20+37, 36' LT	STATION & OFFSET
	RIM 702.10	RIM ELEVATION
VALVE TYPE AND SIZE	W/ GATE VALVE, 12"	

PIPE TYPE	WATER MAIN, 8"	PIPE SIZE
MATERIAL	D.I. CL 52	MATERIAL CLASS
LENGTH	94 LIN FT	
TRENCH BACKFILL QUANTITY	TB 1.3 CY 2'	TRENCH BACKFILL LENGTH

SANITARY SEWER STRUCTURE AND PIPE NOTATION

STRUCTURE DESCRIPTION	SANITARY MANHOLE	
STRUCTURE TYPE,	A-1C, 4' DIA.	DIAMETER
FRAME & LID TYPE	18+20, 28' LT	STATION & OFFSET
	RIM 698.15	RIM ELEVATION
	INV 692.00 N, 8"	INVERT ELEVATION, DIRECTION & SIZE

PIPE TYPE	SANITARY SEWER, 8"	PIPE SIZE
MATERIAL	PVC SDR 26	MATERIAL CLASS
LENGTH	222' @ 1.00%	SLOPE
TRENCH BACKFILL QUANTITY	TB 1.3 CY 2'	TRENCH BACKFILL LENGTH

REMOVAL NOTATION

- ⊠ DENOTES STRUCTURE TO BE REMOVED
- ⊗ TREE REMOVAL

Engineering Enterprises, Inc.
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630.466.6700 / www.eeiweb.com

CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED - TVW	REVISED - JPS 10/17/12		
DRAWN - JPS	REVISED - JPS 11/30/12		
CHECKED - JRL	REVISED - JPS 01/28/13		
DATE - 8/23/2012	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
INDEX OF SHEETS, HIGHWAY STANDARDS, AND LEGEND

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	2
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT	BRM-4003(344)	

Plotted: 10/2/2014 10:28:58 AM By: tweidner

GENERAL NOTES

SPECIFICATIONS, STANDARDS, AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." ADOPTED JANUARY 1, 2012 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS." ADOPTED JANUARY 1, 2014, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION AND REVISIONS THERETO, THE CODES AND ORDINANCES OF THE CITY OF WARRENVILLE, ILLINOIS, THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

NO SUBSTITUTIONS OR VARIANCES WILL BE PERMITTED TO ANY STANDARD NOTES OR ORDINANCES UNLESS APPROVED OTHERWISE IN WRITING PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS AND THE PLANS

STRUCTURE

THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC AS-BUILT OR OTHER RECORD PLANS AND DOCUMENTS MUST CONTACT THE OWNER OF RECORD TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION.

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IF ANY UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, FIELD TILES AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND NOT NECESSARILY COMPLETE; THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE OCCURRED. THIS WORK SHALL BE ARRANGED BY THE UTILITY COMPANY AND SHALL BE AT THE CONTRACTOR'S EXPENSE.

IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, THE OWNER'S AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE BACK OF CURB, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN AT POINTS OF CURVE, ETC., ARE TOP OF CURB UNLESS OTHERWISE NOTED.

STRUCTURE OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS:
A) STRUCTURES FALLING IN THE CURB LINE ARE MEASURED TO THE BACK OF CURB
B) ALL OTHER STRUCTURES ARE MEASURED TO THE CENTER OF THE STRUCTURE

ELEVATIONS ARE NGVD 29 DATUM, ESTABLISHED FROM THE DUPAGE COUNTY GEODETIC SURVEY BENCHMARK NETWORK.

ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS FOR STRUCTURES, ETC., ARE FROM THE PROPOSED BASELINE AS SHOWN ON THE PLANS.

SEWERS AND WATER MAINS

ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY, PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

THE COST OF INTERCONNECTIONS BETWEEN THE PROPOSED AND EXISTING SEWER SYSTEMS AND PROPOSED AND EXISTING WATER MAIN SYSTEMS SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES ON THE ITEMS BEING CONNECTED UNLESS NOTED OTHERWISE. THE COSTS OF PLUGGING ANY EXISTING SEWER CONNECTIONS AS INDICATED ON THE PLANS SHALL BE INCLUDED IN THE COST OF SEWER REMOVAL.

ALL FRAMES, GRATES, OR LIDS SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES SHALL REMAIN THE PROPERTY OF THE CITY, AS APPLICABLE. ANY ITEMS DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT THEIR OWN EXPENSE. THE COST OF SALVAGING EXISTING FRAMES, GRATES, OR LIDS AND/OR STOCKPILING THEM ON THE JOB SITE FOR PICKUP BY THE CITY OR DELIVERY TO THE CITY MAINTENANCE YARD SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM.

ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR ANY MANHOLE, CATCH BASIN, INLET, OR VALVE VAULT SHALL HAVE ONE OF THE FOLLOWING WORDS CAST INTO THE LID: "STORM", "SANITARY", OR "WATER" AS APPLICABLE. SANITARY MANHOLE LIDS SHALL BE SELF-SEALING WITH CONCEALED PICK HOLES. FRAMES AND LIDS IDENTIFIED AS "BOLTED LID" ON THE PLANS SHALL BE FASTENED WITH TAMPER PROOF BOLTS. ANY ADDITIONAL COST FOR THESE REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE FRAME AND CLOSED LID PROVIDED.

FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS SLOPE OF THE AREA IN WHICH THEY ARE LOCATED. ALL FINAL ADJUSTMENTS OF FRAMES WILL BE ACCOMPLISHED BY THE USE OF CONCRETE ADJUSTING RINGS SET IN BUTYL ROPE JOINT SEALANT; MORTAR JOINTS WILL NOT BE ALLOWED. HEIGHT OF ADJUSTING RINGS SHALL NOT EXCEED EIGHT INCHES (8"). THE COST OF THE ADJUSTMENT TO FINAL ELEVATION IS INCLUDED IN THE COST OF THE ITEM CONSTRUCTED.

ALL STORM SEWERS 18" DIAMETER AND LESS SHALL BE PVC SDR 26 MEETING ASTM D-3034 OR ASTM F-679 AS APPLICABLE UNLESS NOTED OTHERWISE. JOINTS SHALL BE GASKET TYPE MEETING ASTM D-3212.

ALL STORM SEWERS GREATER THAN 18" DIAMETER SHALL BE RCCP CLASS IV WITH RUBBER GASKETS.

WATER MAIN SHALL HAVE A MINIMUM COVER OF 5½FEET FROM TOP OF MAIN.

WATER MAIN SHALL BE CLASS 52 DUCTILE IRON MEETING AWWA C-151 WITH PUSH-ON GASKETED JOINTS MEETING AWWA C-111. ALL FITTINGS SHALL HAVE RESTRAINED JOINTS. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE ENCASED IN 8-MIL POLYETHYLENE MEETING AWWA C-105. WATER MAIN, HDD SHALL BE HDPE PIPE MEETING AWWA C906 AND ASTM D3350.

SANITARY SEWER SHALL BE PVC SDR 26 PIPE MEETING ASTM D-2241. JOINTS SHALL BE GASKET TYPE MEETING ASTM D3139.

SANITARY FORCE MAIN SHALL BE PVC DR14 PIPE MEETING AWWA C900. ALL FITTINGS SHALL HAVE RESTRAINED JOINTS. SANITARY FORCE MAIN, HDD SHALL BE HDPE PIPE MEETING AWWA C906 AND ASTM D3350.

BACKFILL

ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER, SANITARY SEWER, AND WATER MAIN HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE.

STORM SEWER, SANITARY SEWER, AND WATER MAIN SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY, OR AS DIRECTED BY THE ENGINEER, WITH THE FOLLOWING MODIFICATIONS.

INITIAL TRENCH BACKFILL SHALL BE CA-7. FINAL TRENCH BACKFILL SHALL BE GRADATION CA-6. THE FINAL TRENCH BACKFILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED IN PLACE TO NINETY FIVE PERCENT (95%) OF MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY THE MODIFIED PROCTOR TEST.

SIGNS

PRIOR TO THE START OF CONSTRUCTION, THE CITY WILL REMOVE ALL SIGNS. THE CITY SHALL ALSO REPLACE SIGNS AND FURNISH AND INSTALL PERMANENT SIGNS AS INDICATED ON THE PLANS.

MISCELLANEOUS

THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH ADJACENT PROJECTS UNDER SEPARATE CONTRACTS. THE CITY ANTICIPATES WATER MAIN AND SANITARY SEWER CONSTRUCTION PROCEEDING NORTH OF THIS CONTRACT CONCURRENTLY IN 2015.

THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET, DRIVEWAY AND PEDESTRIAN ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT, UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE ITEM "AGGREGATE FOR TEMPORARY ACCESS".

SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

AT ALL BUTT JOINT LOCATIONS, THE EXISTING SURFACE SHALL BE CUT TO A MINIMUM THICKNESS OF TWO (2) INCHES AS INDICATED ON THE PLANS.

THE THICKNESS OF ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE ASPHALT MIXTURES ARE TO BE PLACED.

PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE AND TOP OF CURB, PCC SIDEWALK, PCC DRIVEWAY PAVEMENT, CONCRETE BRIDGE ITEMS, AND AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FRESH CONCRETE FROM DAMAGE AND VANDALISM. ANY DAMAGED OR VANDALIZED CONCRETE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE REQUIRED TO MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS, STRUCTURES, POLES, CABLES AND PIPE LINES, BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER AND CITY AT THEIR OWN EXPENSE. ANY SHEETING AND/OR SHORING USED FOR THIS IMPROVEMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES (E.G. CURB, DRIVEWAYS, PAVEMENT) THAT ARE NOT INDICATED TO BE REMOVED ON THE PLANS. ANY FACILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE OCCURRED AT THE CONTRACTOR'S EXPENSE.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.

EXISTING PAVEMENT THICKNESSES SHOWN ON THE PLANS ARE APPROXIMATE, BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. ANY ADDITIONAL COSTS REQUIRED BY THE CONTRACTOR DUE TO THICKNESSES OTHER THAN THOSE SHOWN ON THE PLANS WILL BE INCLUDED IN THE COST OF THE PAVEMENT ITEMS.

WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.

THE CONTRACTOR SHALL PREPARE THE SUBGRADE IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS PRIOR TO THE REMOVAL OF ANY UNSTABLE MATERIALS.

ALL DISTURBED AREAS WITHIN THE PROJECT THAT ARE NOT OTHERWISE SURFACED SHALL BE CLEANED, LAYERED WITH TOPSOIL, AND SEEDED AS SHOWN IN THE PLANS. LIMITS SHOWN ON THE PLANS ARE THE MAXIMUM PAY WIDTHS FOR PAYMENT PURPOSES. ADDITIONAL AREAS DAMAGED BY MACHINERY, CONSTRUCTION EQUIPMENT, CONTRACTOR NEGLIGENCE OR OVER-EXCAVATION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE OCCURRED AT THE COST OF THE CONTRACTOR.

THE CONTRACTOR SHALL DISPOSE OF AND REMOVE FROM THE SITE EACH DAY ALL CURB AND GUTTER, PAVEMENT AND ALL OTHER EXCAVATED MATERIAL NOT FOR SALVAGE. THE COST FOR HAULING AND TRUCKING TO DISPOSAL LOCATIONS WILL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL EXISTING MAILBOXES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS. AFTER COMPLETION OF ROADWAY CONSTRUCTION, THE CONTRACTOR SHALL SET THE MAILBOXES IN THEIR PERMANENT LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN CONFORMANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS, AND THE COST WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

THE NEED FOR REMOVAL OF UNSTABLE SOILS AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED, THE SOILS SHALL BE REMOVED AND REPLACED WITH WITH AGGREGATE SUBGRADE IMPROVEMENT. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY WILL BE DEDUCTED FROM THE CONTRACT WITH NO ADDITIONAL COMPENSATION PAID TO THE CONTRACTOR. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PLACED AT ALL LOCATIONS REQUIRING REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND AGGREGATE SUBGRADE IMPROVEMENT AS APPROVED BY THE ENGINEER.

THE ENGINEER AND CITY ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

DRIVEWAY PAVEMENT REMOVAL SHALL INCLUDE REMOVAL OF ALL EXISTING PAVEMENT WHETHER ASPHALT OR CONCRETE TO THE DEPTH REQUIRED FOR INSTALLATION OF THE NEW DRIVEWAY.

GUARDRAIL REMOVAL SHALL INCLUDE REMOVAL OF THE EXISTING TRAFFIC BARRIER TERMINALS. THE SALVAGED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR.

PAVEMENT WIDENING AREAS FOUR FOOT AND LESS IN WIDTH, ADJACENT TO PROPOSED CURB AND GUTTER, SHALL BE BACKFILLED WITH CLASS SI CONCRETE AND HAVE A HMA SURFACE COURSE AS SHOWN IN THE SPECIAL DETAIL. THE CLASS SI CONCRETE WILL BE CONSIDERED INCLUDED IN THE COST OF THE PAVEMENT.

ALL STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINALS SHALL HAVE A FACTORY-APPLIED POLYESTER POWDER PAINT FINISH. THE COLOR SHALL BE BLACK. A 2 INCH X 4 INCH COLOR SAMPLE SHALL BE SUBMITTED FOR APPROVAL.

POSTS AND ASSEMBLIES SHALL BE PAINTED BLACK IN THE FIELD. THE COST OF THE PAINT FINISH AND PAINTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE GUARDRAIL OR TERMINAL SECTIONS AS APPLICABLE.

PCC SIDEWALK AND PCC DRIVEWAY PAVEMENT SHALL HAVE FIBER MESH INSTALLED PER CITY REQUIREMENTS.

DETECTABLE WARNINGS SHALL BE BRICK RED IN COLOR.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR, AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ANY RESIDENT OR BUSINESS OF ANY REMOVAL AND REPLACEMENT ACTIVITIES THAT WILL INHIBIT OR PROHIBIT ACCESS TO THEIR DRIVEWAY, IN WRITING, A MINIMUM OF 48 HOURS BUT NOT MORE THAN 72 HOURS, PRIOR TO THE COMMENCEMENT OF THESE ACTIVITIES. THE MORNING OF THE WORK, THE CONTRACTOR SHALL AGAIN NOTIFY THE OWNER VERBALLY, TO ALLOW THE OWNER TIME TO MOVE THEIR VEHICLE SO AS NOT TO PROHIBIT THE VEHICLE FROM LEAVING THE DRIVEWAY UPON REMOVAL OF ANY MATERIAL. THE NOTICE GIVEN OUT BY THE CONTRACTOR SHALL PROVIDE INFORMATION REGARDING THE ANTICIPATED DATE THAT FULL ACCESS WILL BE RESTORED. COORDINATION BETWEEN ACTIVITIES SHOULD ALLOW ALL WORK TO BE DONE IN A TIMELY MATTER SO AS TO PERMIT ACCESS TO THE ROADWAY. ANY ADDITIONAL COST OF STAGING REQUIRED TO MAINTAIN ACCESS IS CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

GRATING FOR CONCRETE FLARED END SECTION AS INDICATED ON PLAN SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PRECAST REINFORCED CONCRETE FLARED END SECTION IT IS ATTACHED TO.

Engineering Enterprises, Inc.
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52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED - TVW		REVISED - JPS 10/17/12	
DRAWN - JPS		REVISED - JPS 11/30/12	
CHECKED - JRL		REVISED - JPS 01/28/13	
DATE - 8/23/2012		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
GENERAL NOTES

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	3
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-4003(344)			

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SUMMARY OF QUANTITIES

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	FEDERAL = 80% CITY = 20% ROADWAY 0004	FEDERAL = 80% CITY = 20% BRIDGE 0011	FEDERAL = 80% CITY = 20% TRAINEES 0042	FEDERAL = 0% CITY = 100% ROADWAY 0004	FEDERAL = 0% CITY = 100% UTILITIES 0043
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	704	681			23	
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	798	798				
Δ		20200100	EARTH EXCAVATION	CU YD	1,236	1,130			106	
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	242	242				
Δ		20300100	CHANNEL EXCAVATION	CU YD	85	85				
Δ		20400800	FURNISHED EXCAVATION	CU YD	3,326	3,326				
		20800150	TRENCH BACKFILL	CU YD	1,379	205			93	1,081
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	4,316	4,316				
	*	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	6,119	5,344			775	
		21301072	EXPLORATION TRENCH 72" DEPTH	FOOT	100	100				
Δ		21400100	GRADING AND SHAPING DITCHES	FOOT	293				293	
	*	25000210	SEEDING, CLASS 2A	ACRE	0.98	0.82			0.16	
	*	25000300	SEEDING, CLASS 3	ACRE	0.25	0.25				
	*	25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25				
	*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	111	96			15	
	*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	111	96			15	
	*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	111	96			15	
Δ	*	25100630	EROSION CONTROL BLANKET	SQ YD	6,099	5,324			775	
Δ	*	25100900	TURF REINFORCEMENT MAT	SQ YD	20	20				
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	256	224			32	
		28000305	TEMPORARY DITCH CHECKS	FOOT	96	72			24	
		28000315	AGGREGATE DITCH CHECKS	TON	8	8				
		28000400	PERIMETER EROSION BARRIER	FOOT	2,120	2,045			75	
		28000500	INLET AND PIPE PROTECTION	EACH	2	2				
		28000510	INLET FILTERS	EACH	33	31			2	
		28100107	STONE RIPRAP, CLASS A4	SQ YD	899	899				
		28200200	FILTER FABRIC	SQ YD	927	927				
Δ		30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	242	242				
Δ		30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3,590	3,590				
		35101400	AGGREGATE BASE COURSE, TYPE B	TON	104	98			6	
		35501303	HOT-MIX ASPHALT BASE COURSE, 4 3/4"	SQ YD	2,990	2,990				
		40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	16	16				
Δ		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	700	700				
		40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	30	30				
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	76	76				
		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	378	378				
		40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	398	398				
Δ		40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	35	35				
		42001300	PROTECTIVE COAT	SQ YD	1,410	1,366			44	
		42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	36	36				
		42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	250	250				
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5,435	5,045			390	

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	FEDERAL = 80% CITY = 20% ROADWAY 0004	FEDERAL = 80% CITY = 20% BRIDGE 0011	FEDERAL = 80% CITY = 20% TRAINEES 0042	FEDERAL = 0% CITY = 100% ROADWAY 0004	FEDERAL = 0% CITY = 100% UTILITIES 0043
		42400400	PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH	SQ FT	400	400				
		42400800	DETECTABLE WARNINGS	SQ FT	78	78				
		44000100	PAVEMENT REMOVAL	SQ YD	1,323	1,323				
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	852	852				
		44000600	SIDEWALK REMOVAL	SQ FT	4,949	4,559			390	
		44003100	MEDIAN REMOVAL	SQ FT	266	266				
		44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	27	27				
		44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	340	340				
		48101200	AGGREGATE SHOULDERS, TYPE B	TON	33	33				
		48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	92	92				
		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1			
		50200100	STRUCTURE EXCAVATION	CU YD	58		58			
		50200300	COFFERDAM EXCAVATION	CU YD	183		183			
Δ		50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1		1			
Δ		50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1		1			
		50300225	CONCRETE STRUCTURES	CU YD	214.9		214.9			
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	123.5		123.5			
		50300260	BRIDGE DECK GROOVING	SQ YD	647		647			
		50300280	CONCRETE ENCASEMENT	CU YD	4.2		4.2			
		50300300	PROTECTIVE COAT	SQ YD	889		889			
Δ		50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	5,088		5,088			
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	53,470		53,470			
		51201400	FURNISHING STEEL PILES HP10X42	FOOT	1,049		1,049			
		51202305	DRIVING PILES	FOOT	1,049		1,049			
		51203400	TEST PILE STEEL HP10X42	EACH	4		4			
		51204650	PILE SHOES	EACH	28		28			
		51500100	NAME PLATES	EACH	1		1			
		54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1				
		54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1				
		54215550	METAL END SECTIONS 15"	EACH	4	4				
		550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	35	35				
		550A2350	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 21"	FOOT	128	128				
		550A2360	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	FOOT	171	171				
		550A2560	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24"	FOOT	100	100				
		550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	338	338				
		550B0070	STORM SEWERS, CLASS B, TYPE 1 15"	FOOT	75	75				
		550B0090	STORM SEWERS, CLASS B, TYPE 1 18"	FOOT	125				125	
		550B0340	STORM SEWERS, CLASS B, TYPE 2 12"	FOOT	430	430				
		550B0360	STORM SEWERS, CLASS B, TYPE 2 15"	FOOT	62	62				
		550B0380	STORM SEWERS, CLASS B, TYPE 2 18"	FOOT	401	63			338	
		55100500	STORM SEWER REMOVAL 12"	FOOT	126	126				
		55100700	STORM SEWER REMOVAL 15"	FOOT	37	37				

Δ SEE SPECIAL PROVISIONS
* SPECIALTY ITEMS

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CITY OF WARRENVILLE
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WARRENVILLE, IL 60555

DESIGNED - TVW
DRAWN - JPS
CHECKED - JRL
DATE - 8/23/2012

REVISED - JPS 10/17/12
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REVISED - JPS 01/28/13
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	4
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

SUMMARY OF QUANTITIES

SPECIAL PROVISION / SPECIALTY ITEM		CODE NO.	ITEM	UNIT	TOTAL QUANTITY	FEDERAL = 80%			FEDERAL = 0%	
						CITY = 20%			CITY = 100%	
						ROADWAY	BRIDGE	TRAINEES	ROADWAY	UTILITIES
						0004	0011	0042	0004	0043
Δ	*	56100900	WATER MAIN 12"	FOOT	180					180
Δ	*	56103100	DUCTILE IRON WATER MAIN 8"	FOOT	94					94
Δ	*	56103300	DUCTILE IRON WATER MAIN 12"	FOOT	1,140					1,140
Δ	*	56105000	WATER VALVES 8"	EACH	1					1
Δ	*	56105200	WATER VALVES 12"	EACH	5					5
Δ	*	56200300	WATER SERVICE LINE 1"	FOOT	112					112
Δ	*	56201400	CORPORATION STOPS 1"	EACH	10					10
Δ	*	56400600	FIRE HYDRANTS	EACH	1					1
Δ	*	56500800	DOMESTIC WATER SERVICE BOXES	EACH	6					6
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	65		65			
		60107700	PIPE UNDERDRAINS 6"	FOOT	60	60				
		60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	5	3			2	
		60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	4	4				
		60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	9	9				
		60204825	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	1	1				
		60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2	2				
		60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	1	1				
		60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4				
		60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4				
		60240312	INLETS, TYPE B, TYPE 11V FRAME AND GRATE	EACH	9	9				
	*	60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1					1
	*	60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5					5
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,960	1,960				
		60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	113	113				
	*	63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	37.5	37.5				
	*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4				
Δ	*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4				
		63200310	GUARDRAIL REMOVAL	FOOT	227	227				
	*	66400305	CHAIN LINK FENCE, 6'	FOOT	84					84
		67100100	MOBILIZATION	L SUM	1	1				
		70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1				
	*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2,662	2,662				
	*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	125	125				
	*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	160	160				
	*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	50	50				
Δ	*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4				
Δ	*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	2					2
Δ	*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1					1
	*	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	35					35
	*	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	288					288
	*	81200120	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	56					56
	*	81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	2					2
Δ	*	81603037	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2,080					2,080
Δ	*	81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	35					35
	*	A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2				
	*	B2000774	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 3" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	4	4				
	*	B2004120	TREE, MALUS PRAIRIFIRE (PRAIRIFIRE CRABAPPLE), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	5	5				
	*	B2004170	TREE, MALUS PRAIRIFIRE (PRAIRIFIRE CRABAPPLE), 8' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	8	8				
	*	B2005720	TREE, PYRUS CALLERYANA CHANTICLEER (CHANTICLEER CALLERY PEAR), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	5	5				
	*	B2006320	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	3	3				
Δ		X0322936	REMOVE EXISTING FLARED END SECTION	EACH	2	2				
Δ	*	X0324769	SANITARY SEWER LIFT STATION	L SUM	1					1
Δ	*	X0325003	REMOVE EXISTING VALVE AND VAULT	EACH	1					1
Δ	*	X0325670	CONCRETE BRIDGE RAIL, SIDEWALK MOUNTED	FOOT	136		136			
Δ		X0325862	CONCRETE BRIDGE RAILING	FOOT	136		136			
Δ	*	X0783300	PUMP STATION ELECTRICAL WORK	L SUM	1					1
Δ	*	X0839900	SANITARY SEWER REMOVAL 6"	FOOT	15					15
Δ		X2011000	TEMPORARY FENCE (SPECIAL)	FOOT	223	223				
Δ		4060027S	BITUMINOUS MATERIALS (PRIME COAT)	POUND	10,346	10,346				
Δ		X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	474	474				
Δ		X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	447		447			
Δ	*	X5610708	WATER MAIN REMOVAL, 8"	FOOT	60					60
Δ	*	X5630712	CONNECTION TO EXISTING WATER MAIN 12"	EACH	1					1
Δ	*	X5640175	FIRE HYDRANT COMPLETE	EACH	5					5
Δ		X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	93		93			
Δ		X6022712	CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	1	1				
Δ	*	X6022810	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5					5
Δ	*	X6026055	SANITARY MANHOLE, SPECIAL	EACH	1					1
Δ	*	X6026057	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1					1
Δ		X6062400	CONCRETE GUTTER (SPECIAL)	FOOT	59	59				
Δ	*	X6640308	CHAIN LINK GATES (SPECIAL)	EACH	1					1
Δ		X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
Δ	*	X8011010	TELEPHONE SERVICE INSTALLATION	L SUM	1					1
Δ	*	X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	15					15
Δ	*	X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1					1
Δ	*	X8360110	LIGHT POLE FOUNDATION, SPECIAL	FOOT	41					41
Δ	*	X0003803	SANITARY SEWER SERVICE 6"	FOOT	96					96
Δ	*	X0004603	CONCRETE SLAB	SQ YD	56					56
Δ	*	X0006167	FORCE MAIN, 4"	FOOT	56					56
Δ	*	X0006263	STEEL CASING PIPE AUGERED AND JACKED 30"	FOOT	60				60	
Δ	*	X0007811	FORCE MAIN, 8"	FOOT	10					10
Δ	*	X0007940	INSULATION	SQ FT	288					288
Δ		X0008200	STABILIZED DRIVEWAY PAVEMENT	SQ YD	166	166				
Δ		X0008257	STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	1,328	1,328				
Δ		Z0022800	FENCE REMOVAL	FOOT	495	495				
Δ		Z0023201	SEDIMENT CONTROL, SILT CURTAIN	EACH	1	1				
Δ		Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	142		142			
Δ	*	Z0056900	SANITARY SEWER 8"	FOOT	235					235
Δ	*	Z0057000	SANITARY SEWER 10"	FOOT	525					525
Δ		Z0066700	STABILIZED DRIVEWAYS 10"	SQ YD	342	342				
Δ		Z0076600	TRAINEES	HOUR	1,000			1,000		
Δ		Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000			1,000		
Δ	*	XX0078?5	FORCE MAIN, 4" (SPECIAL)	FOOT	748					748

Δ SEE SPECIAL PROVISIONS
* SPECIALTY ITEMS

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DESIGNED - TVW	REVISED - JPS 10/17/12		
DRAWN - JPS	REVISED - JPS 11/30/12		
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DATE - 8/23/2012	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 2 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	5
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

Plotted: 8/14/2014 3:35:48 PM By: JSchmidt

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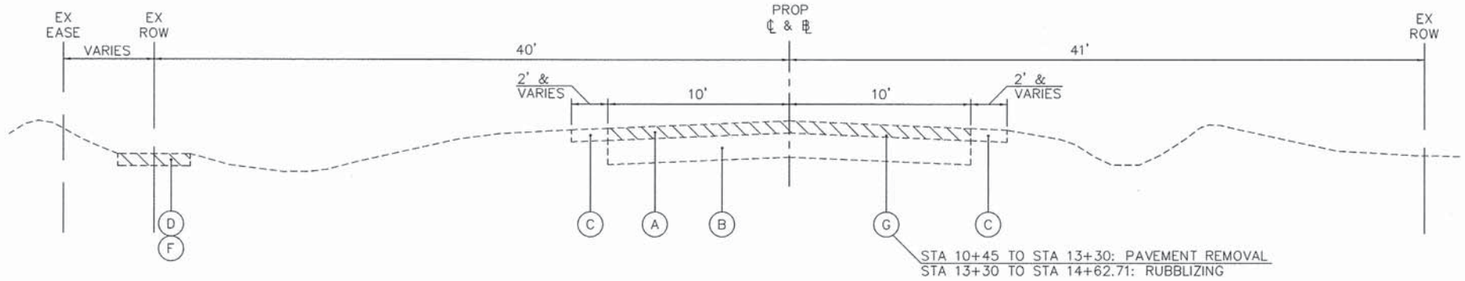
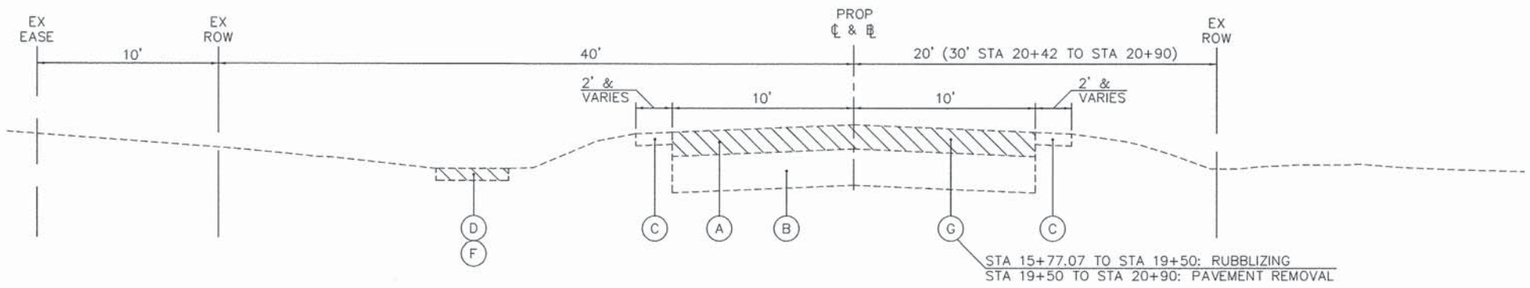
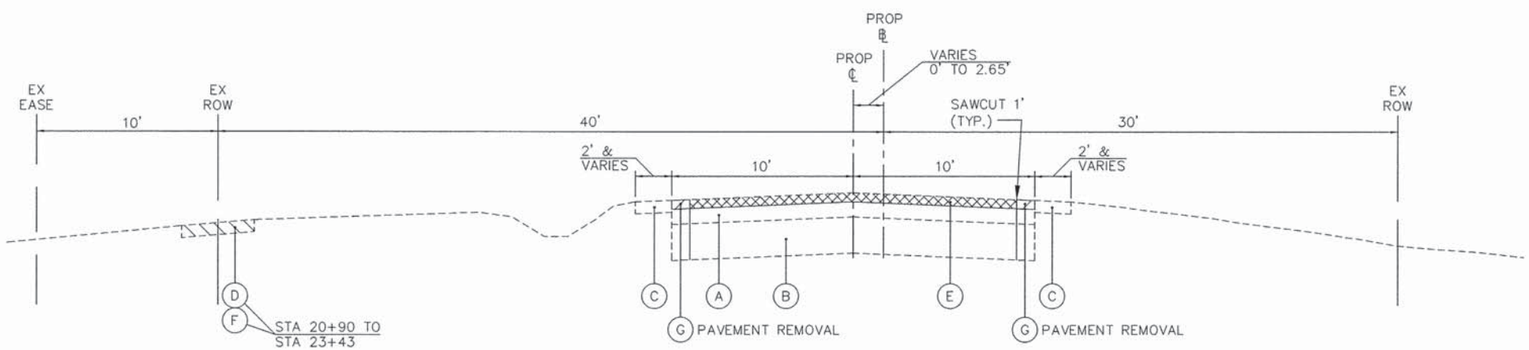


EXISTING TYPICAL SECTION
WILLIAMS ROAD STA 10+16 TO 14+62.71
(N.T.S.)

STA 14+62.71 TO STA 15+77.07 – EXISTING BRIDGE



EXISTING TYPICAL SECTION
WILLIAMS ROAD STA 15+77.07 TO 20+90
(N.T.S.)



EXISTING TYPICAL SECTION
WILLIAMS ROAD STA 20+90 TO 22+70
(N.T.S.)

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING AGGREGATE BASE
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING SIDEWALK
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- (F) SIDEWALK REMOVAL
- (G) PAVEMENT REMOVAL (PAID FOR AS EARTH EXCAVATION) OR RUBBLIZING

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (3) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- (4) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
- (5) HOT-MIX ASPHALT BASE COURSE, 4 3/4"
- (6) LEVELING BINDER (MACHINE METHOD), N50, VARIES
- (7) BITUMINOUS MATERIALS (PRIME COAT)
- (8) AGGREGATE (PRIME COAT) AS NEEDED, - NOT MEASURED FOR PAYMENT
- (9) AGGREGATE SHOULDERS, TYPE B, 6"
- (10) PCC SIDEWALK W/ FIBER MESH, 5" (7" AT DRIVEWAYS)
- (11) AGGREGATE BASE COURSE, TYPE B, 2"
- (12) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (13) TOPSOIL, 4", SEEDING (SEE PLANS FOR TYPE), FERTILIZER AND EROSION CONTROL BLANKET
- (14) STEEL PLATE BEAM GUARDRAIL
- (15) GUARDRAIL STABILIZATION
- (16) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (17) STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK W/ FIBER MESH, 5 INCH

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED	TVW	REVISED	JPS 10/17/12
DRAWN	JPS	REVISED	JPS 11/30/12
CHECKED	JRL	REVISED	JPS 01/28/13
DATE	8/23/2012	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	6
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

Plotted: 7/30/2014 4:37:15 PM By: JSchmidt
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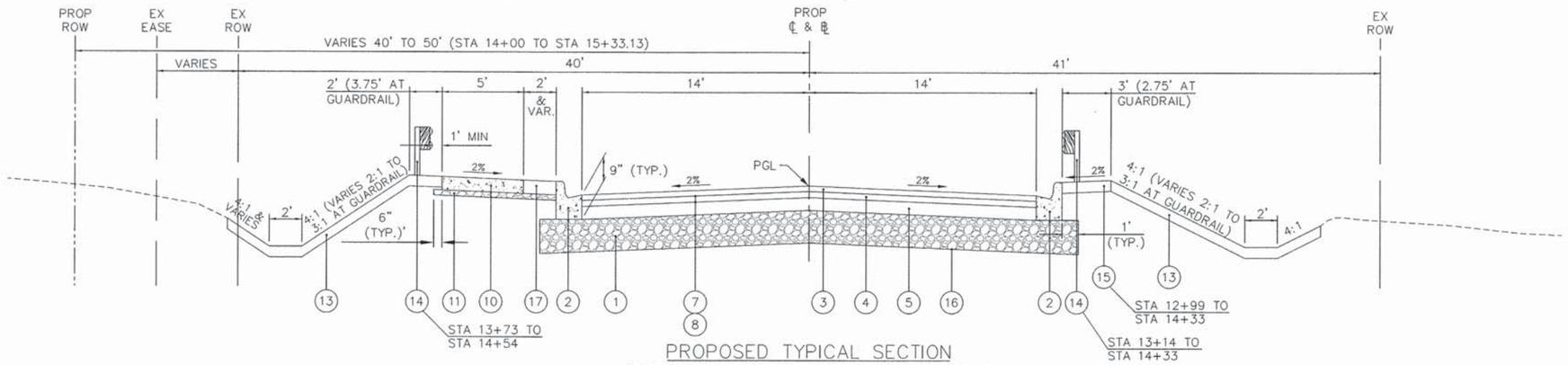
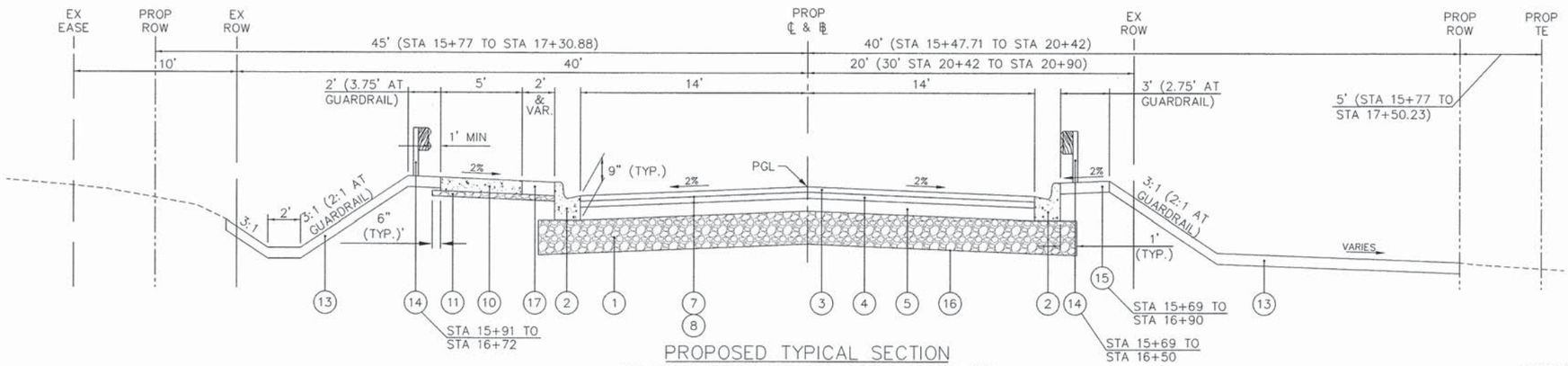
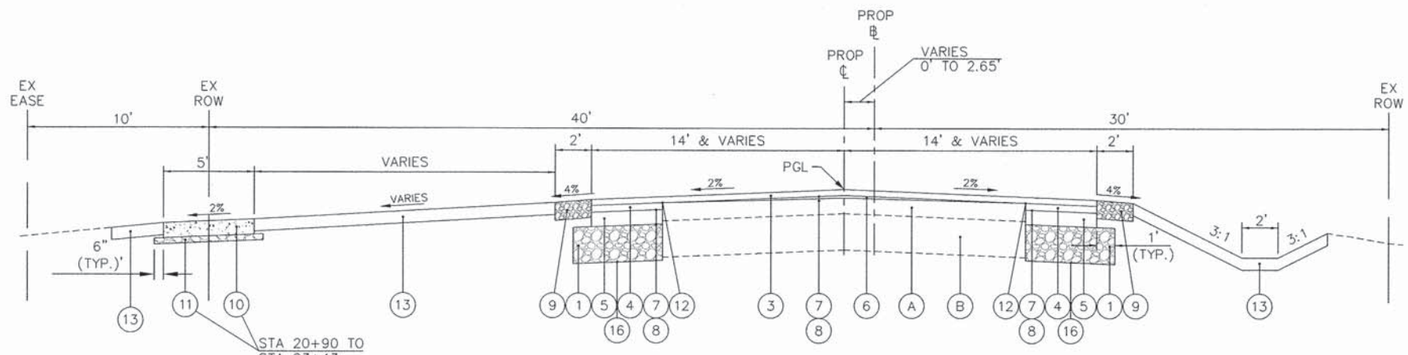


PROPOSED TYPICAL SECTION
WILLIAMS ROAD STA 10+45 TO 14+12.97
(N.T.S.)

STA 14+12.97 TO STA 16+07.03 – BRIDGE AND BRIDGE APPROACH SLABS



PROPOSED TYPICAL SECTION
WILLIAMS ROAD STA 16+07.33 TO 20+90
(N.T.S.)



PROPOSED TYPICAL SECTION
WILLIAMS ROAD STA 20+90 TO 22+70
(N.T.S.)

PAVEMENT DESIGN INFORMATION

WILLIAMS ROAD
HOT-MIX ASPHALT PAVEMENT
CLASS II
80,000 LB
TWO LANE URBAN
2023 ADT 3,717
PV 3,661 (98.5%)
SU 45 (1.2%)
MU 11 (0.3%)
TF = 0.12
SSR POOR
AC MIX TEMP 77.5°
PG 64-28
MODULUS 613 KSI
THICKNESS REQUIRED = 6"
THICKNESS PROVIDED = 9"

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING AGGREGATE BASE
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING SIDEWALK
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- (F) SIDEWALK REMOVAL
- (G) PAVEMENT REMOVAL (PAID FOR AS EARTH EXCAVATION) OR RUBBLIZING

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (3) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- (4) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
- (5) HOT-MIX ASPHALT BASE COURSE, 4 3/4"
- (6) LEVELING BINDER (MACHINE METHOD), N50, VARIES
- (7) BITUMINOUS MATERIALS (PRIME COAT)
- (8) AGGREGATE (PRIME COAT) AS NEEDED, - NOT MEASURED FOR PAYMENT
- (9) AGGREGATE SHOULDERS, TYPE B, 6"
- (10) PCC SIDEWALK W/ FIBER MESH, 5" (7" AT DRIVEWAYS)
- (11) AGGREGATE BASE COURSE, TYPE B, 2"
- (12) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (13) TOPSOIL, 4", SEEDING (SEE PLANS FOR TYPE), FERTILIZER AND EROSION CONTROL BLANKET
- (14) STEEL PLATE BEAM GUARDRAIL
- (15) GUARDRAIL STABILIZATION
- (16) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (17) STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK W/ FIBER MESH, 5 INCH

PATCHING SHALL BE PERFORMED BEFORE MILLING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATION	MIXTURE TYPE	AIR VOIDS @ N_{des}
WILLIAMS ROAD RECONSTRUCTION / WIDENING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 2"	4% @ 50 Gyr.
	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"	4% @ 50 Gyr.
	HOT-MIX ASPHALT BASE COURSE, 4 3/4" HMA BINDER COURSE, IL-19.0, N50 (IN 2 LIFTS)	4% @ 50 Gyr.
WILLIAMS ROAD RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 2"	4% @ 50 Gyr.
	LEVELING BINDER (MACHINE METHOD), N50, VARIES	4% @ 50 Gyr.
DRIVEWAY RECONSTRUCTION (PE)	STABILIZED DRIVEWAYS, 10" HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 MM), 2"	4% @ 50 Gyr.
DRIVEWAY RECONSTRUCTION (CE)	STABILIZED DRIVEWAY PAVEMENT HMA BINDER COURSE, IL-19.0, N50, 2 1/4"	4% @ 50 Gyr.
	HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 MM), 2"	4% @ 50 Gyr.
INCIDENTAL HMA	INCIDENTAL HOT-MIX ASPHALT SURFACING HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 MM), 2" & VARIES	4% @ 50 Gyr.
PATCHING	CLASS D PATCHES, 9 INCH HMA BINDER, IL-19.0, 9" (IN 3 LIFTS)	4% @ 50 Gyr.
HMA SHOULDERS	HOT-MIX ASPHALT SHOULDERS, 6" HMA BINDER, IL-19.0, 6" (IN 2 LIFTS)	4% @ 50 Gyr.

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS

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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED	TVW	REVISED	JPS 10/17/12
DRAWN	JPS	REVISED	JPS 11/30/12
CHECKED	JRL	REVISED	JRW 01/28/13
DATE	8/23/2012	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 2 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	7
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

REMOVAL

STATION	HMA SURF REM BUTT JT	PAVEMENT REM	DRIVE PAVEMENT REM	SIDEWALK REM	MEDIAN REMOVAL	STORM SEWER REM 12	STORM SEWER REM 15	GUARDRAIL REMOV	REMOV EX FLAR END SEC	REMOVE EXISTING VALVE AND VAULT	SANITARY SEWER REMOVAL 6"	HMA SURF REM VAR DP	WATER MAIN REMOVAL, 8"	FENCE REMOVAL
	SQ YD	SQ YD	SQ YD	SQ FT	SQ FT	FOOT	FOOT	FOOT	EACH	EACH	FOOT	SQ YD	FOOT	FOOT
10+00 TO 14+00	54	760	233	1621	266	126		59	2	1	15	121	60	31
14+00 TO 18+50			235	953			9	168						276
18+50 TO 22+70	22	563	384	1985			28					353		188
22+70 TO 23+43				390 **										
TOTAL	**76**	**1323**	**852**	**4949**	**266**	**126**	**37**	**227**	**2**	**1**	**15**	**474**	**60**	**495**

** NON-PARTICIPATORY

ROADWAY QUANTITIES

LOCATION	GEOTECH FAB F/GR STAB	AGG SUBGRADE IMPR 12	HMA BASE CSE 4 3/4	BIT MATLS PR CT	LEV BIND MM N50	HMA BC IL-19.0 N50	HMA SC "D" N50	BR APPR PVT CON (FLX)	STRIP REF CR CON TR	AGGREGATE SHLDS B	HMA SHOULDERS 6	COMB CC&G TB6.12
	SQ YD	SQ YD	SQ YD	POUND	TON	TON	TON	SQ YD	FOOT	TON	SQ YD	FOOT
10+16 TO 14+00	1398	1398	1133	3990	2	143	147			2	38	934
14+00 TO 14+41.81	27	27	23	77		3	3	18			10	26
15+78.19 TO 20+00	1427	1427	1205	4025		152	135	18			44	786
20+00 TO 22+70	738	738	629	2254	28	80	113		340	31		214
UNDERCUT	726											
TOTAL	**4316**	**3590**	**2990**	**10346**	**30**	**378**	**398**	**36**	**340**	**33**	**92**	**1960**

TREE REMOVAL

STATION	LT/RT	OFFSET	TREE REMOV 6-15 UNIT	TREE REMOV OVER 15 UNIT
12+43.06	LT	29.81	7.5	
12+65.00	LT	29.25	10	
12+85.28	LT	30.30	8.5	
12+85.72	LT	31.36	8.5	
12+91.96	LT	29.84		24
12+98.97	LT	28.51	9	
13+11.38	LT	31.35		20
13+30.53	LT	30.95		17
13+39.58	LT	29.05	7.5	
13+49.61	LT	30.67		29.5
13+68.10	LT	30.14		19
13+83.81	LT	28.77	8.5	
14+26.18	LT	31.24	10.5	
14+40.00	LT	28.12	10.5	
14+43.83	LT	21.98	7	
14+46.60	LT	27.56	13	
14+51.52	LT	31.01		30
14+51.74	LT	26.15		19
14+55.05	LT	31.17	7	
14+55.05	LT	31.17	12	
14+62.99	LT	24.08	12	
14+63.28	LT	39.61	8	
15+72.09	LT	18.44	10	
15+72.26	LT	16.97	10	
15+80.49	LT	42.45	12	
15+99.69	LT	18.97	12	
16+01.33	LT	18.30	13.5	
16+02.20	LT	17.74	14.5	
16+21.27	LT	18.93		17
16+68.85	LT	43.71	8	
16+69.41	LT	43.16	8	
16+76.98	LT	27.00		19
17+01.46	LT	18.96	11.5	
17+01.76	LT	17.53	15	
17+09.52	LT	32.94	8.5	
17+14.23	LT	30.96	10.5	
17+17.01	LT	31.08		17.5
17+17.64	LT	32.32	12	
17+18.78	LT	32.18	10.5	
17+27.19	LT	31.41	14	
17+27.34	LT	32.54	8	
17+37.53	LT	29.91		16
17+56.29	LT	28.01	8	
17+66.29	LT	18.32	8	
17+83.76	LT	30.53	9.5	
18+02.01	LT	20.07		17.5
18+21.70	LT	18.70		17
18+97.64	LT	32.34	8	
19+17.78	LT	32.19		21
19+21.25	LT	19.36		17
19+62.05	LT	19.36		18.5
19+82.00	LT	19.32		16
20+02.89	LT	19.28		19
SUB-TOTAL (FROM ABOVE)			351	354

STATION	LT/RT	OFFSET	TREE REMOV 6-15 UNIT	TREE REMOV OVER 15 UNIT
20+04.72	LT	25.14	10	
20+13.97	LT	23.24		18
20+22.13	LT	19.60	9	
20+68.98	LT	33.54		17.5
20+88.42	LT	34.22	14	
20+90.34	LT	33.15	9.5	
20+92.01	LT	33.95	11	
20+95.14	LT	32.76	14.5	
20+97.25	LT	32.88	6	
22+22.96	LT	33.67	12	
22+27.16	LT	28.91	7	
22+51.60	LT	21.83	14	
22+52.86	LT	21.12	9	
22+52.94	LT	20.14	7	
23+29.24	LT	35.68	12 **	
23+30.12	LT	34.57	11 **	
10+43.23	RT	36.24	7	
10+43.23	RT	36.24	7.5	
11+68.29	RT	39.30		19
12+61.52	RT	33.59		16
12+72.55	RT	34.34	10	
12+82.58	RT	34.01	9	
13+76.47	RT	38.16		20
14+34.59	RT	24.95	6	
15+13.23	RT	41.53	11	
15+54.29	RT	28.73	14	
15+69.99	RT	27.80	15	
15+79.40	RT	23.42	10	
15+79.85	RT	22.49	9	
16+01.79	RT	34.63	11	
16+02.20	RT	35.26	13	
16+11.88	RT	28.39	12	
16+12.52	RT	34.42	13.5	
16+13.31	RT	35.39		16.5
16+98.81	RT	38.79		38
17+17.05	RT	35.85		17.5
17+17.36	RT	38.24		29
17+52.97	RT	38.36		36
17+71.82	RT	39.14		31.5
17+90.30	RT	39.05		43.5
18+28.59	RT	37.81		41
18+38.68	RT	31.08	8.5	
18+65.04	RT	28.62	6.5	
19+13.86	RT	29.93	8	
19+23.99	RT	29.03	8.5	
19+44.90	RT	20.84		16
19+88.70	RT	29.38		38
20+13.34	RT	24.83	6.5	
20+18.08	RT	28.10	6	
20+53.52	RT	53.71	15	
20+71.19	RT	26.27		26
21+04.68	RT	22.97		20.5
SUB-TOTAL (FROM ABOVE)			353	444
SUB-TOTAL (OTHER SIDE)			351	354
TOTAL			704	798

** NON-PARTICIPATORY

SUB-TOTAL (PART.)	**681**	**798**
SUB-TOTAL (NON-PART.)	**23**	**0**
TOTAL	**704**	**798**

EARTHWORK

LOCATION	EARTH EXCAVATION (CU YD)	CHANNEL EXCAVATION (CU YD)	EXCAVATION ADJUSTED FOR SHRINKAGE (20%) (CU YD)	EMBANKMENT (CU YD)	EARTH WORK BALANCE WASTE(+) OR SHORTAGE (-) (CU YD)
10+16 TO 14+00	586	0	469	461	8
14+00 TO RIVER	9	85	76	387	-311
RIVER TO 20+00	117	0	94	3,496	-3,402
20+00 TO 22+70	418	0	335	41	294
22+70 TO 23+43 **	106	0	85	0	85
TOTAL	**1,236**	**85**	**1,059**	**4,385**	**-3,326**

EARTH EXCAVATION 1,236 CU YD
CHANNEL EXCAVATION 85 CU YD
EARTHWORK BALANCE 3,326 CU YD (FURNISHED EXCAVATION)

** NON-PARTICIPATORY

TREES

STA	OFFSET	LT./RT.	T-QUERCUS BICOL 2-1/2 EACH	T-AMEL X GF AB TF 3 EACH	T-MALUS PF TF 2-1/2 EACH	T-MALUS PF CL 8' EACH	T-PYRUS C CH TF 2-1/2 EACH	T-SYRG RT IS TF 2-1/2 EACH
12+80	28.0	LT	1					
13+30	28.0	LT	1					
17+90	29.0	LT					1	
18+10	29.0	LT					1	
18+55	32.0	LT		1				
18+75	32.0	LT		1				
18+95	32.0	LT		1				
19+20	32.0	LT		1				
19+75	31.0	LT					1	
19+95	31.0	LT					1	
21+15	31.0	LT					1	
17+17	27.0	RT				1		
17+37	27.0	RT				1		
17+57	27.0	RT				1		
17+77	27.0	RT				1		
17+97	27.0	RT				1		
18+17	27.0	RT				1		
18+37	27.0	RT				1		
18+57	27.0	RT				1		
19+00	36.0	RT						1
19+20	36.0	RT						1
19+40	36.0	RT						1
23+75	26.0	RT			1			
23+95	26.0	RT			1			
24+15	26.0	RT			1			
24+35	26.0	RT			1			
24+55	26.0	RT			1			
TOTAL			**2**	**4**	**5**	**8**	**5**	**3**

DRIVEWAY PAVEMENT, MEDIAN, AND SIDEWALK

LOCATION	LT./RT.	AGG BASE CSE B TON	AGG SURF CSE B TON	PCC DRIVEWAY PAVT 7 SQ YD	PC CONC SIDEWALK 5 SQ FT	PC CONC SIDEWALK 7 SQ FT	DETECTABLE WARNINGS SQ FT	CONC MEDIAN SURF 4 SQ FT	CONC GUTTER SPL FOOT	STAB DRIVE PAVEMENT SQ YD	STAB DRIVEWAYS 10 SQ YD	STAMP COL PCC SDWLK 5 SQ FT
10+51 TO 11+95	LT	14.4			785		22					232
12+17 HMA CE	LT	1.5					16	113		122		
12+40 TO 14+55	LT	19.4			1090		8					297
15+85 TO 17+55	LT	15.0			846							228
17+65 HMA PE	LT	1.3		5		100					184	
17+85 TO 19+29	LT	15.0			770							304
19+38 CONC PE	LT	1.2		64		90						
19+47 TO 20+42	LT	9.2			475							186
20+54 CONC PE	LT	1.6		147		120						
20+66 TO 21+25	LT	5.5			295							81
21+34 CONC PE	LT	1.2		34		90					11	
21+43 TO 22+70	LT	9.9			635							
22+70 TO 23+43	LT	6.0 **			390 **							
10+03 TO 10+23	RT	2.2			149		32					
11+18 HMA PE	RT								59		41	
12+44 HMA PE	RT										37	
12+93 AGG PE	RT		16								10	
LIFT STATION	RT									44		
22+19 HMA PE	RT										59	
SUB-TOTAL (PART.)		**98**	**16**	**250**	**5045**	**400**	**78**	**113**	**59**	**166**	**342**	**1328**
SUB-TOTAL (NON-PART.)		**6**	**0**	**0**	**390**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
TOTAL		**104**	**16**	**250**	**5435**	**400**	**78**	**113**	**59**	**166**	**342**	**1328**

** NON-PARTICIPATORY

LANDSCAPING

LOCATION	LT./RT.	TOPSOIL F & P 4 SQ YD	GRADING & SHAP DITCH FOOT	SEEDING CL 2A ACRE	SEEDING CL 3 ACRE	SEEDING CL 4B ACRE	NITROGEN, PHOSPHORUS & POTASSIUM FERT NUTR POUND	TURF REINF MAT SQ YD	EROSION CONTR BLANKET SQ YD	TEMP EROS CONTR SEED POUND
PARTICIPATORY ITEMS (STA 10+16 TO STA 22+70)										
10+16 TO 12+17	LT	359.6		0.07	0.00	0.00	6.3		359.6	14
12+17 TO 13+50	LT	242.4		0.05	0.00	0.00	4.5		242.4	10
13+50 TO 14+49	LT	212.4		0.00	0.04	0.00	3.6	20	192.4	8
14+49 TO RIVER	LT	10.0		0.00	0.00	0.01	0.0		10.0	2
RIVER TO 16+06	LT	105.8		0.00	0.00	0.03	0.0		105.8	6
16+06 TO 17+65	LT	527.2		0.02	0.09	0.00	9.9		527.2	22
17+65 TO 19+38	LT	528.7		0.11	0.00	0.00	9.9		528.7	22
19+38 TO 20+54	LT	331.0		0.07	0.00	0.00	6.3		331.0	14
20+54 TO 21+34	LT	164.5		0.03	0.00	0.00	2.7		164.5	6
21+34 TO 22+70	LT	296.6		0.06	0.00	0.00	5.4		296.6	12
10+16 TO 11+18	RT	250.3		0.05	0.00	0.00	4.5		250.3	10
11+18 TO 12+44	RT	314.7		0.07	0.00	0.00	6.3		314.7	14
12+44 TO 12+93	RT	98.2		0.02	0.00	0.00	1.8		98.2	4
12+93 TO 13+50	RT	120.0		0.02	0.00	0.00	1.8		120.0	4
13+50 TO 14+17	RT	168.8		0.00	0.03	0.00	2.7		168.8	6
14+17 TO RIVER	RT	6.3		0.00	0.00	0.01	0.0		6.3	2
RIVER TO 15+75	RT	42.3		0.00	0.00	0.01	0.0		42.3	2
15+75 TO 17+00	RT	367.2		0.00	0.08	0.00	7.2		367.2	16
17+00 TO MORRIS CT.	RT	864.6		0.18	0.00	0.00	16.2		864.6	36
MORRIS CT. TO 22+19	RT	247.5		0.05	0.00	0.00	4.5		247.5	10
22+19 TO 22+70	RT	85.2		0.02	0.00	0.00	1.8		85.2	4
SUB-TOTAL (PART.)		**5344**	**0**	**0.82**	**0.24**	**0.06**	**96**	**20**	**5324**	**224**
NON-PARTICIPATORY ITEMS (STA 22+70 TO STA 25+35)										
22+70 TO IROQUOIS CT.	LT	207.3		0.04	0.00	0.00	3.6		207.3	8
22+70 TO 25+35	RT	566.9	293	0.12	0.00	0.00	10.8		566.9	24
SUB-TOTAL (NON-PART.)		**775**	**293**	**0.16**	**0.00**	**0.00**	**15**	**0**	**775**	**32**
TOTAL		**6119**	**293**	**0.98**	**0.24**	**0.06**	**111**	**20**	**6099**	**256**

NOTE: 0.25 ACRES MINIMUM QUANTITY FOR SEEDING PER BDE

Engineering Enterprises, Inc.
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52 Wheeler Road
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630.466.6700 / www.eeiweb.com

CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED - TVW	REVISED - JPS 10/17/12	STATE OF ILLINOIS	WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
DRAWN - JPS	REVISED - JPS 11/30/12	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES
CHECKED - JRL	REVISED - JPS 01/28/13		SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. N/A | TO STA. N/A
DATE - 8/23/2012	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	8
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

Plotted: 7/30/2014 4:35:01 PM By: JSchmidt
C:\Eng Projects\Projects\Warrenville Manual\Dgn Files\Engineering\Sheets\Schedule of Quantities.dgn

STORM SEWER AND STORM SEWER STRUCTURES

STATION	OFFSET	LT./RT.	PRC FLAR END SEC 15 EACH	PRC FLAR END SEC 24 EACH	MET END SEC 15 EACH	CB TA 4 DIA T8G EACH	CB TA 4 DIA T11F&G EACH	CB TA 4 DIA T11V F&G EACH	CB TA 5 DIA T11V F&G EACH	CB TC T8G EACH	CB TC T11F&G EACH	MAN TA 4 DIA T1F CL EACH	MAN TA 5 DIA T1F CL EACH	INLETS TB T11V F&G EACH	CB TA 4 DIA W/SPL F&G EACH	PIPE DIA. INCH	LENGTH FOOT	SLOPE %	TRENCH BACKFILL CU YD	SS RG CL A1 15 FOOT	SS RG CL A1 21 FOOT	SS RG CL A1 24 FOOT	SS RG CL A2 24 FOOT	STORM SEW CL B 1 12 FOOT	STORM SEW CL B 1 15 FOOT	STORM SEW CL B 1 18 FOOT	STORM SEW CL B 2 12 FOOT	STORM SEW CL B 2 15 FOOT	STORM SEW CL B 2 18 FOOT	PIPE UNDER-DRAINS, 6" FOOT	STL CAS P AUG/JKD 30" FOOT
SOUTHERN STORM SEWER SYSTEM (FROM SOUTH TO NORTH OUTLET AT RIVER)																																
11+00	30	RT								1						12"	69	3.00	6.5					69							
11+69	15.58	LT												1		12"	29	1.00	4.1								29				
11+69	15.58	RT						1								12"	16	1.00	1.6								16				
11+69	30	RT										1				12"	56	3.00	0.0					56							
12+25	30	RT				1										12"	41	3.00	10.1					41							
12+66	15.58	LT												1		12"	29	1.00	4.1								29				
12+66	15.58	RT						1								12"	16	1.00	1.7								16				
12+66	30	RT				1										12"	71	3.00	13.0					71							
13+37	15.58	LT												1		12"	29	1.00	6.5								29				
13+37	15.58	RT													1	12"	16	1.00	4.3								16				
13+37	30	RT										1				12"	62	0.34	0.0									62			
14+15	15.58	LT												1		12"	10	1.00	2.3								10				
14+05	15.58	LT						1								12"	30	1.00	7.5								30				
13+89	15.58	RT												1		12"	10	1.00	8.0								10				
13+99	15.58	RT						1								12"	16	1.00	5.1								16				
13+99	30	RT										1				15"	35	0.34	0.0	35											
14+40	30	RT	1																												
NORTHERN STORM SEWER SYSTEM (FROM NORTH TO SOUTH OUTLET AT RIVER)																																
24+80	21	RT				1 **										18"	125	0.36	0.0 **							125 **					
23+55	21	RT				1 **										18"	253	0.36	36.7 **										253 **		60 **
21+02	22	RT				1										18"	27	0.59	2.5 **										27 **		
21+50	20	LT								1						12"	75	1.00	9.9					75							
20+75	15.58	LT						1								12"	38	1.00	13.8								38				
20+58.30	25.53	RT									1					12"	18	1.00	0.7								18			20	
20+75	22	RT										1				18"	58	0.59	54.3 **										58 **		
20+16.99	22.82	RT						1								18"	63	0.59	56.8										63		
19+57	15.58	LT												1		12"	29	1.00	4.4								29				
19+57	15.58	RT						1								12"	8	1.00	0.7					8							
19+57	22	RT											1			21"	128	1.11	0.0		128										
18+37	15.58	LT					1									12"	10	1.00	1.3								10			10	
18+27	15.58	LT					1									12"	29	1.00	5.0								29			10	
18+37	15.58	RT					1									12"	10	1.00	1.6								10			10	
18+27	15.58	RT					1									12"	8	1.00	0.7					8						10	
18+27	22	RT											1			24"	100	0.17	0.0				100								
17+27	15.58	LT												1		12"	29	1.00	4.4								29				
17+27	15.58	RT						1								12"	8	1.00	1.3								8				
17+27	22	RT											1			24"	122	0.17	0.0			122									
16+31	15.58	LT												1		12"	10	1.00	1.3					10							
16+21	15.58	LT						1								12"	33	1.00	9.9								33				
16+15	15.58	RT												1		12"	10	1.00	8.0								10				
16+05	15.58	RT							1							12"	15	1.00	2.2								15				
16+05	29	RT											1			24"	49	0.18	0.0			49									
15+50	30	RT		1																											
AT WEST DRIVEWAYS																																
19+57	40	LT			1											15"	33	2.43	2.0						33						
19+20	40	LT			1																										
17+88	40	LT			1											15"	42	0.26	5.7						42						
17+42	40	LT			1																										
SUB-TOTAL (PART.)			1	1	4	3	4	9	1	2	1	4	4	9	1	SUB-TOTAL (PART.)			205	35	128	171	100	338	75	0	430	62	63	60	0	
SUB-TOTAL (NON-PART.)			0	0	0	2	0	0	0	0	0	0	0	0	0	SUB-TOTAL (NON-PART.)			93	0	0	0	0	0	0	125	0	0	338	0	60	
TOTAL			1	1	4	5	4	9	1	2	1	4	4	9	1	TOTAL			298	35	128	171	100	338	75	125	430	62	401	60	60	

FOR STORM SEWERS: STATION SHOWN IS FOR THE DOWNSTREAM END OF THE PIPE
ALL PRC FLARED END SECTIONS WILL HAVE GRATING
** NON-PARTICIPATORY

WATER MAIN AND APPURTENANCES

LOCATION	TRENCH BACKFILL CU YD	WATER MAIN 12 FOOT	D I WATER MAIN 8 FOOT	D I WATER MAIN 12 FOOT	WATER VALVES 8 EACH	WATER VALVES 12 EACH	VV TA 4 DIA T1F CL EACH	VV TA 5 DIA T1F CL EACH	CONN TO EX W MAIN 12 EACH	FIRE HYDRANT COMPLETE EACH	FIRE HYDRANTS EACH
10+00 TO 14+00	168			375		1		1	1	2	
14+00 TO 20+00	46	180		425		2		2		1	
20+00 TO 25+50	360		94	340	1	2	1	2		2	1
TOTAL	574	180	94	1140	1	5	1	5	1	5	1

SANITARY SEWER, AND LIFT STATION APPURTENANCES

LOCATION	TRENCH BACKFILL CU YD	MAN SAN 4 DIA T1F CL EACH	SAN MANHOLE SPL EACH	SAN MH REC NEW T1F CL EACH	CH LK FENCE 6 FOOT	CH LK GATES SPL EACH	CONCRETE SLAB SQ YD	FORCE MAIN 4" FOOT	FORCE MAIN 8" FOOT	INSULATION SQ FT	SAN SEW 8 FOOT	SAN SEW 10 FOOT	FORCE MAIN, 4" (SPECIAL) FOOT
10+00 TO 14+00	8	1	1	1				38	10	288		116	190
14+00 TO 20+00	28	1			84	1	56	18			219		558
20+00 TO 25+50	471	3									16	409	
TOTAL	507	5	1	1	84	1	56	56	10	288	235	525	748

WATER SERVICE

ADDRESS	STATION	B-BOX OFFSET	SERVICE LENGTH (FT)
2S735 WILLIAMS RD	SERVICE FROM BATAVIA RD		-
2S729 WILLIAMS RD	11+78	39' RT	77
2S630 WILLIAMS RD	18+00	42' LT	7
2S580 WILLIAMS RD	19+13	42' LT	7
2S603 WILLIAMS RD	FUTURE SERVICE FROM MORRIS CT		-
2S580 WILLIAMS RD	20+78	41' LT	7
2S570 WILLIAMS RD	21+61	41' LT	7
2S550 WILLIAMS RD	22+45	41' LT	7
2S555 WILLIAMS RD	FUTURE SERVICE		-
TOTAL			112

THE LOCATIONS OF ALL WATER SERVICES SHOWN ARE FOR REFERENCE ONLY. THE FINAL LOCATION OF ALL SERVICES SHALL BE DETERMINED BY THE CITY OF WARRENVILLE PRIOR TO THE START OF ANY WORK.

ALL PROPOSED SERVICES WILL HAVE ONE (1) DOMESTIC WATER SERVICE BOXES AND ONE (1) CORPORATION STOPS 1" (6 EACH)

TWO (2) PERMANENT TAP CORPORATION STOPS 1" REQUIRED AT EACH VALVE VAULT LISTED BELOW:
STA 14+35, 36' LT
STA 16+10, 36' LT

SANITARY SEWER SERVICE

ADDRESS	STATION	END OF SERVICE OFFSET	SERVICE LENGTH (FT)
2S735 WILLIAMS RD	11+45	40' RT	5
2S729 WILLIAMS RD	11+59	40' RT	5
2S630 WILLIAMS RD	18+30	41' LT	14
2S580 WILLIAMS RD	19+03	41' LT	14
2S603 WILLIAMS RD	19+98	39' RT	9
2S580 WILLIAMS RD	20+68	41' LT	14
2S570 WILLIAMS RD	21+51	41' LT	14
2S550 WILLIAMS RD	22+35	41' LT	14
2S555 WILLIAMS RD	23+10	22' LT	7
TOTAL			96

THE LOCATIONS OF ALL SANITARY SERVICES SHOWN ARE FOR REFERENCE ONLY. THE FINAL LOCATION OF ALL SERVICES SHALL BE DETERMINED BY THE CITY OF WARRENVILLE PRIOR TO THE START OF ANY WORK.

PAVEMENT MARKING

LOCATION	MOD URETH PM LINE 4 FOOT	MOD URETH PM LINE 6 FOOT	MOD URETH PM LINE 12 FOOT	MOD URETH PM LINE 24 FOOT
10+16 TO 14+00	682	125	160	35
14+00 TO 18+50	900			
18+50 TO 22+70	1080			15
TOTAL	2662	125	160	50

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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED - TVW	REVISED - JPS 10/17/12
DRAWN - JPS	REVISED - JPS 11/30/12
CHECKED - JRL	REVISED - JPS 01/28/13
DATE - 8/23/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SCHEDULE OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 2 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	9
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

Plotted: 7/30/2014 4:39:47 PM By: JSchmidt

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N

0 50 100
SCALE FEET

BENCHMARK #1656
STA. 11+49.05, 263.08' LT.
MUELLER FLANGE BOLT ON
FIRST FIRE HYDRANT WEST OF
WILLIAMS RD. ON NORTH SIDE BATAVIA RD.
N 1880235.91
E 1022953.95
ELEV = 713.19

BATAVIA ROAD

CONTROL POINT #9
STA. 12+16.75, 15.79' LT.
SET MAGNAIL
N 1880302.37
E 1023201.58
ELEV = 706.43

LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 1

IROQUOIS COURT S.

CONTROL POINT #8002
STA. 21+81.26, 27.05' LT.
CUT CROSS IN WALK
N 1881266.93
E 1023195.13
ELEV = 704.48

WILLIAMS ROAD

10+00 PR BL STA. 15+00.00 N 1880585.54 E 1023218.78 15+00 1500.00' N00°17'10"E 20+00 25+00

PROJECT BEGINS
STA. 10+16.00
N 1880101.54
E 1023216.36

STA. 10+00.00
N 1880085.54
E 1023216.28

CL PR BRIDGE
15+10.00
N 1880595.54
E 1023218.83

DUPAGE COUNTY SURVEY MONUMENT WI27001
STA. 15+67.71, 15.75' RT.
N 1880653.17
E 1023234.86
ELEV = 697.71

STA. 20+00.00
N 1881085.53
E 1023221.28

STA. 20+90.00
N 1881175.53
E 1023221.73

CL WILLIAMS ROAD
@ CL MORRIS COURT
STA. 20+38.25
N 1881123.78
E 1023221.47

PROJECT ENDS
STA. 22+70.00
N 1881355.53
E 1023222.62

STA. 25+00.00
N 1881585.53
E 1023223.77

MORRIS COURT S

BENCHMARK #1778
STA. 9+60.92, 111.34' RT.
RR SPIKE IN UTILITY POLE
N 1879996.76
E 1023327.18
ELEV = 711.39

BM#1
STA. 14+51.75, 17.02' RT
DISC ON SOUTHEAST WINGWALL OF
WILLIAMS ROAD BRIDGE OVER RIVER.
ELEV = 697.67
N 1880537.20
E 1023235.55

CONTROL POINT #9
STA. 12+16.75, 15.79' LT.
SET MAGNAIL

14.5'
10.2'

WILLIAMS ROAD

16" TREE
TELEPHONE PEDISTAL
32.3'
35.4'
37.5'
UTILITY POLE
CONTROL POINT #8002
STA. 21+81.26, 27.05' LT.
CUT CROSS IN WALK

WILLIAMS ROAD

GROUND SCALE FACTOR = 0.9999470869

Coordinates are referenced to the Illinois State Plane Coordinate System, NAD83, East Zone. Coordinates are on the ground. All measured and calculated distances are on the ground.

Plotted: 1/11/2013 2:41:06 PM By: JSchmidt

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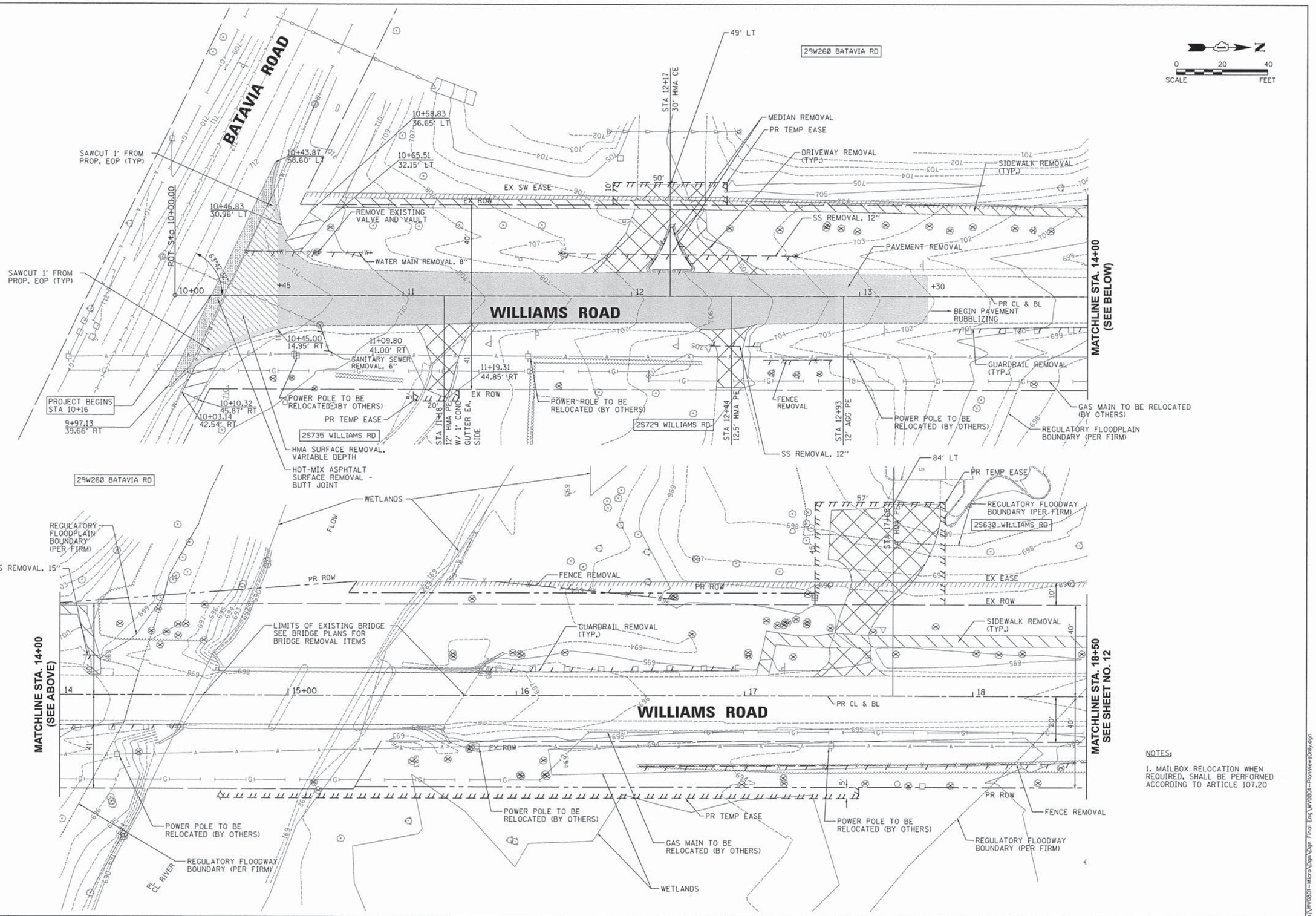
Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	CITY OF WARRENVILLE 3S258 MANNING AVENUE WARRENVILLE, IL 60555	DESIGNED - TVW DRAWN - JPS CHECKED - JRL DATE - 8/23/2012	REVISED - JPS 10/17/12 REVISED - JPS 11/30/12 REVISED - TVW 1/15/13 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1"=50' | SHEET NO. 1 OF 1 SHEETS | STA. 10+00 TO STA. 25+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	10
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			



NOTES:

1. MAILBOX RELOCATION WHEN REQUIRED, SHALL BE PERFORMED ACCORDING TO ARTICLE 107.20

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	CITY OF WARRENVILLE 3S258 MANNING AVENUE WARRENVILLE, IL 60555	DESIGNED - TVW	REVISED - JPS 10/17/12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT REMOVAL PLAN
		DRAWN - JPS	REVISED - JPS 11/30/12		
		CHECKED - JRL	REVISED - TVW 1/15/13		SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. 10+00 TO STA. 18+50
		DATE - 8/23/2012	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	11
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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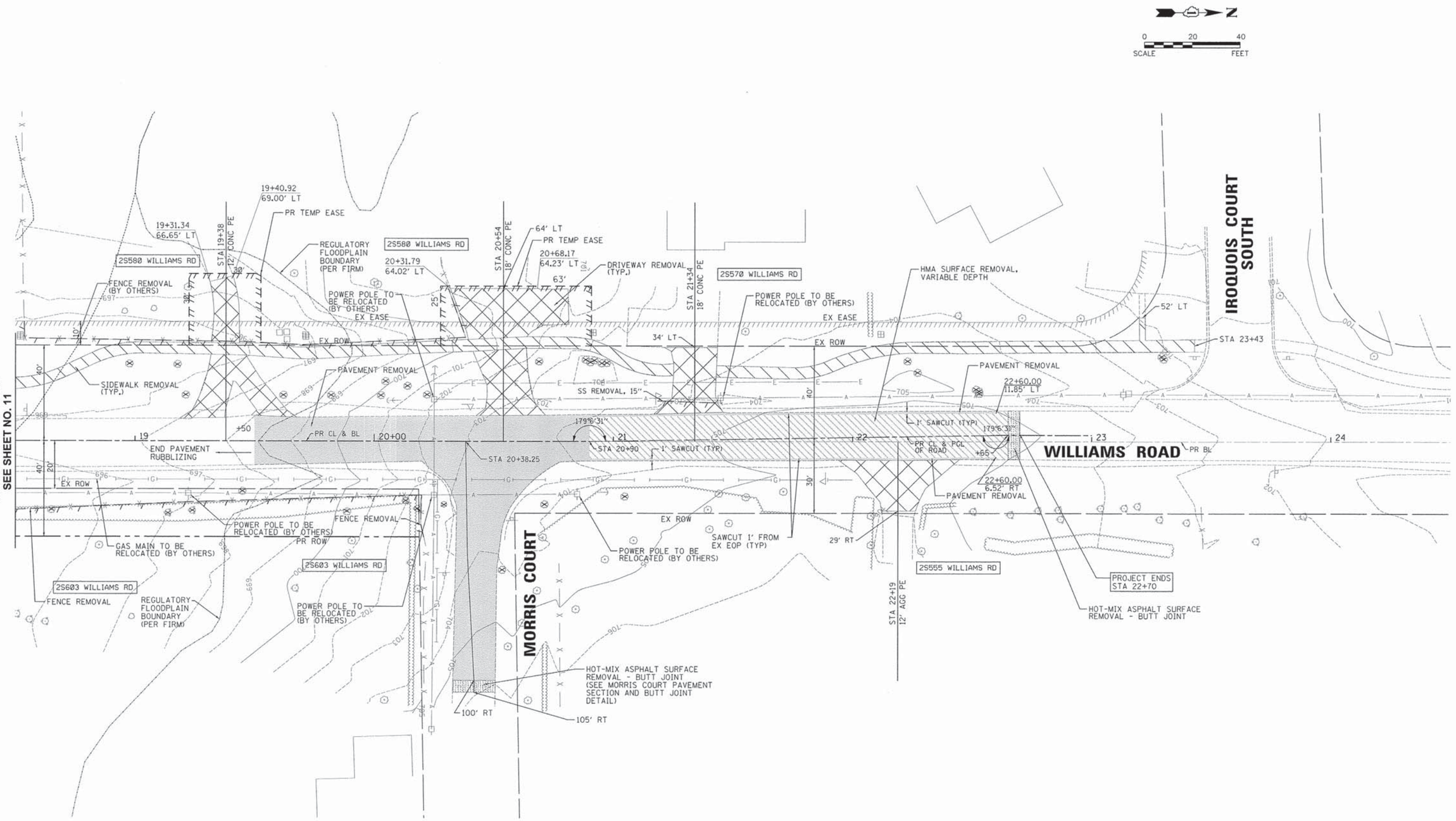

NOTES:

1. MAILBOX RELOCATION WHEN REQUIRED, SHALL BE PERFORMED ACCORDING TO ARTICLE 107.20

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3S258 MANNING AVENUE
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DESIGNED - TVW	REVISED - JPS 10/17/12		
DRAWN - JPS	REVISED - JPS 11/30/12		
CHECKED - JRL	REVISED - JPS 01/28/13		
DATE - 8/23/2012	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
REMOVAL PLAN

SCALE: 1"=20' | SHEET NO. 2 OF 2 SHEETS | STA. 18+50 TO STA. 23+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	12
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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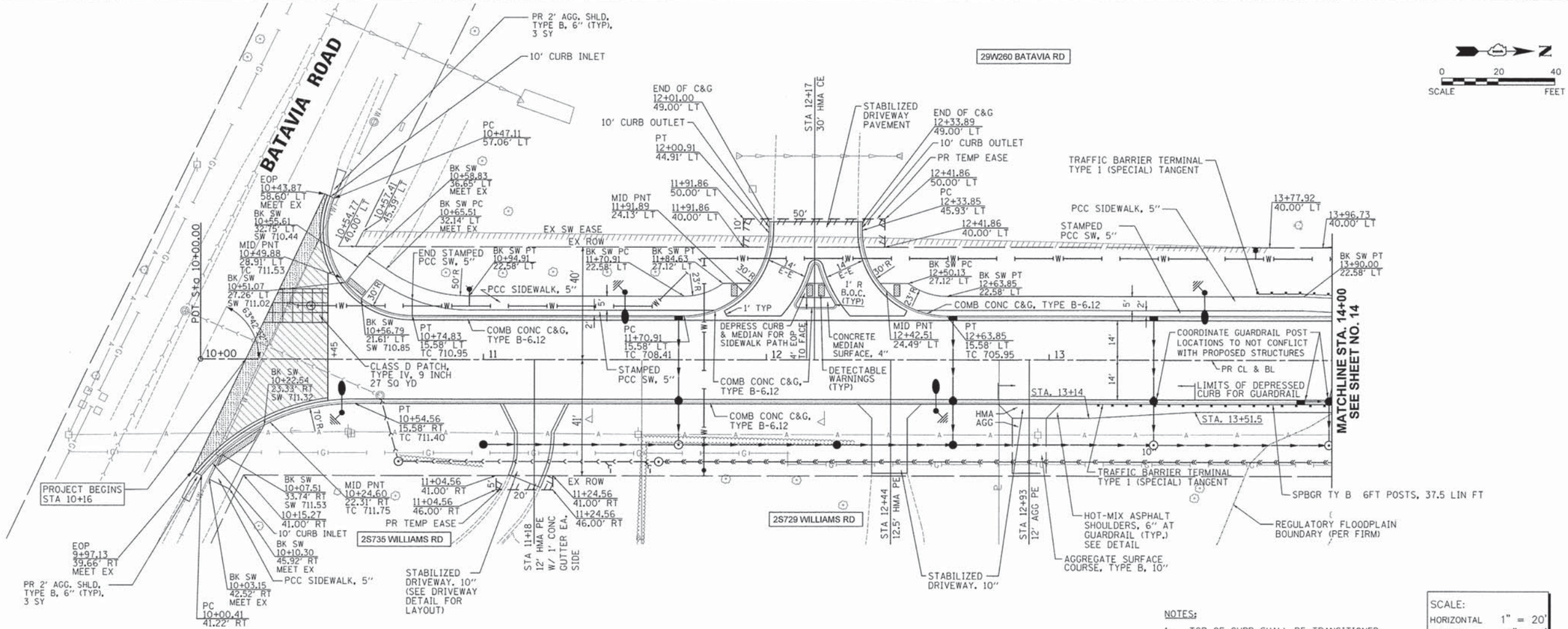
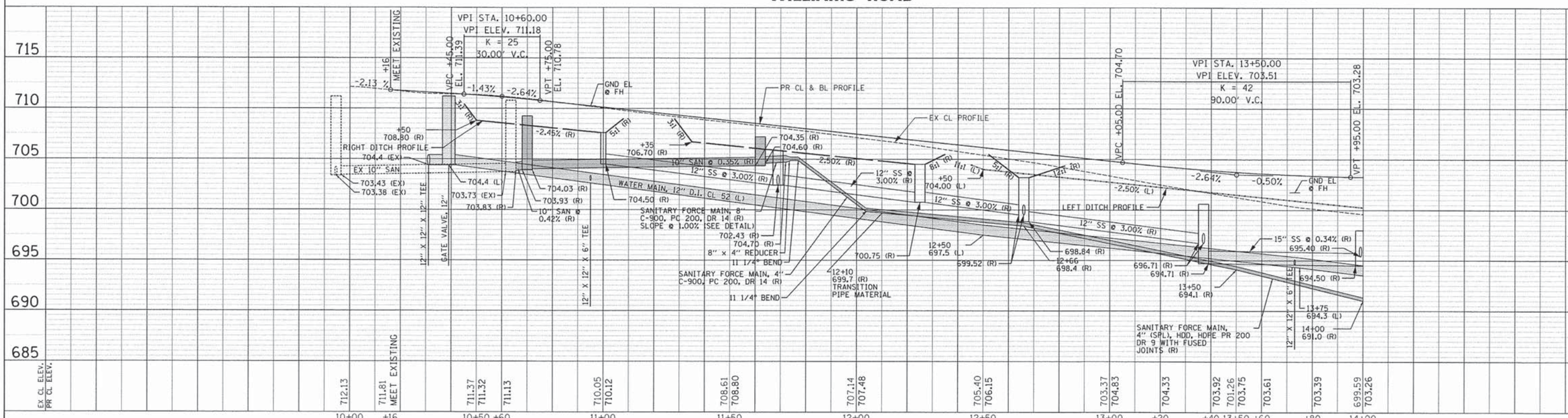


NOTES:

1. TOP OF CURB SHALL BE TRANSITIONED IN 2' AT DEPRESSED CURB UNLESS NOTED OTHERWISE (TYP)

SCALE:	
HORIZONTAL	1" = 20'
VERTICAL	1" = 5'

WILLIAMS ROAD



DESIGNED	TVW	REVISED	JPS 10/17/12
DRAWN	JPS	REVISED	JPS 11/30/12
CHECKED	JRL	REVISED	JPS 01/28/13
DATE	8/23/2012	REVISED	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
PLAN AND PROFILE

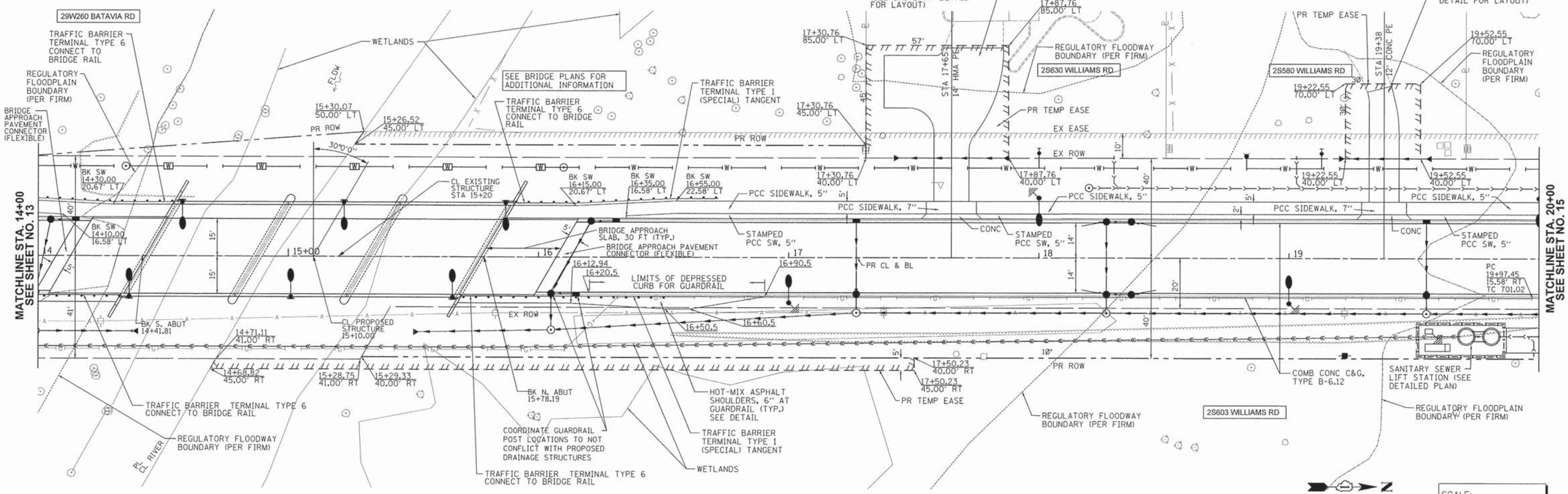
SCALE: 1"=20' | SHEET NO. 1 OF 3 SHEETS | STA. 10+00 TO STA. 14+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	13
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

PLAN / PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, ALL ARE CHECKED, STRUCTURE NO(S)/TYPE/CHKD, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

Plotted: 7/31/2014 3:35:40 PM By: JSchmidt

Xrefs: XNSSDFPA1WRSBDR1Micro\Dgn\pln Final Eng\Wrsbdr1Pf.dgn

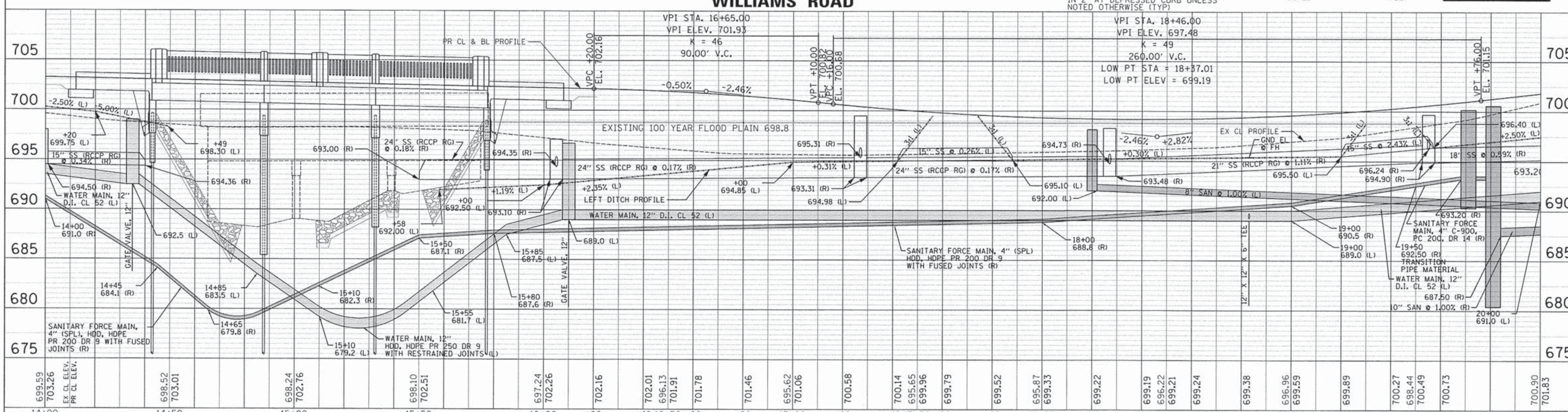


NOTES:

1. TOP OF CURB SHALL BE TRANSITIONED IN 2' AT DEPRESSED CURB UNLESS NOTED OTHERWISE (TYP)

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

WILLIAMS ROAD



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 3 SHEETS | STA. 14+00 TO STA. 20+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	14
	C-91-515-10	CONTRACT NO. 63761		
		ILLINOIS FED. AID PROJECT BRM-9003(638)		

Plotted: 7/31/2014 3:36:23 PM By: JSchmidt

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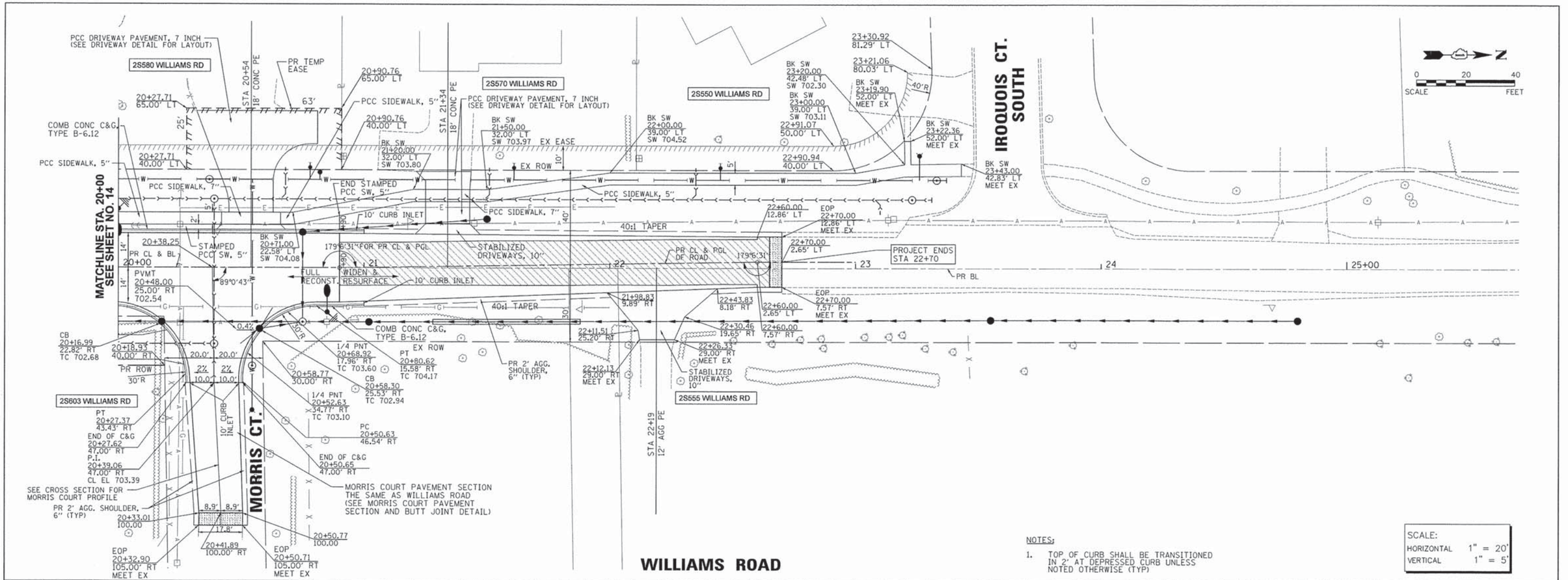
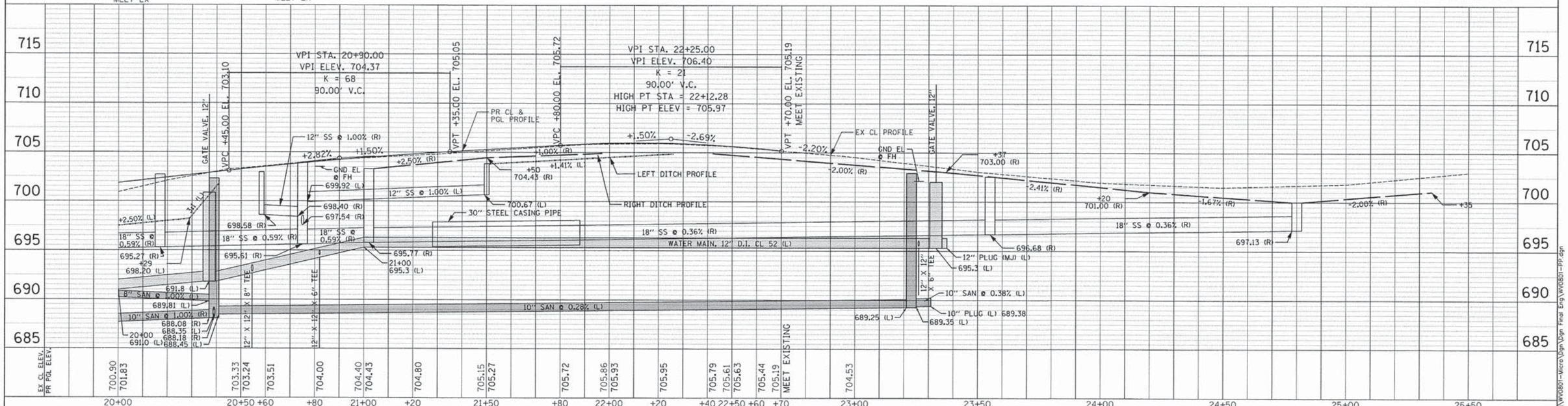


NOTES:

1. TOP OF CURB SHALL BE TRANSITIONED IN 2' AT DEPRESSED CURB UNLESS NOTED OTHERWISE (TYP)

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

WILLIAMS ROAD



Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	CITY OF WARRENVILLE 3S258 MANNING AVENUE WARRENVILLE, IL 60555	DESIGNED - TVW	REVISED -
		DRAWN - JPS	REVISED -
		CHECKED - JRL	REVISED -
		DATE - 8/23/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 3 OF 3 SHEETS | STA. 20+00 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	15
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

PLAN: SURVEYED, PLOTTED, AUTHORIZED, R/T. OF WAY CHECKED, NOTE BOOK, NO.____, CADD FILE NAME, BY, DATE
PROFILE: SURVEYED, PLOTTED, AUTHORIZED, R/T. OF WAY CHECKED, NOTE BOOK, NO.____, BLM. NOTED, STRUCTURE NO(S).(TYS) CHKD

Plotted: 9/26/2012 3:41:14 PM By: JSchmidt

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①	ROAD CLOSED	R11-2 48X30
②	ROAD CLOSED 500 FT	W20-3 48X48
③	DETOUR AHEAD	W20-2 48X48
④	ROAD CLOSED AHEAD	W20-3 48X48
⑤	DETOUR	M4-10R 48X18
⑥	DETOUR	M4-10L 48X18
⑦	BRIDGE OUT 3/4 MILE AHEAD LOCAL TRAFFIC ONLY	R11-3b 60X30
⑧	BRIDGE OUT LOCAL TRAFFIC ONLY	R11-3b 60X30
⑨	Williams Road CLOSED AT DuPage River	PROPOSED SIGN 60X30 W/ 7" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND
⑩	END DETOUR	M4-8a 24X18
⑪	SIDEWALK CLOSED	R11-1101 24X18 TYPE II BARRICADES WITH 1 FLASHING LIGHT ON BARRICADE
⑫	Williams Road	30" X 24"
⑬	NORTH	M3-1(O) 24X12
⑭	SOUTH	M3-3(O) 24X12
⑮	DETOUR	M4-9R 30X24
⑯	DETOUR	M4-9L 30X24
⑰	DETOUR	M4-9 30X24
⑱	DETOUR	M4-9 (MODIFIED) 30X24
⑲	DETOUR	M4-9 (MODIFIED) 30X24

N

0 500 1000
SCALE FEET

LEGEND

- BRIDGE
- ROAD CLOSED TO THROUGH TRAFFIC
- SIGN WITH HIGH INTENSITY WARNING LIGHT
- TYPE III BARRICADE WITH 2 HIGH INTENSITY WARNING LIGHTS AND SIGNS AS NOTED.
- CM — CHANGEABLE MESSAGE SIGN
- FULL ROAD CLOSURE

NOTES:

1. LOCATIONS OF ALL SIGNS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE BASED ON FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER.
2. SIGN SPACING = 500 FEET (TYP.), UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
3. CHANGEABLE MESSAGE SIGNS TO BE INSTALLED A MINIMUM OF TWO WEEKS IN ADVANCE OF ANY CONSTRUCTION WORK NOTIFYING THE PUBLIC OF PENDING ROAD CLOSURE. THE CHANGEABLE MESSAGE SIGNS SHALL BE REMOVED ONCE THE BRIDGE IS CLOSED AND TYPE III BARRICADES ARE PLACED.
4. DURING WATER MAIN CONNECTION AND WATER MAIN CONSTRUCTION NEAR THE INTERSECTION OF BATAVIA ROAD AND WILLIAMS ROAD, ONE LANE OF BATAVIA ROAD MAY BE CLOSED BY THE CONTRACTOR USING FLAGGERS AND IDOT HIGHWAY STANDARD 701501-06.
5. AN OPEN HOLE WILL NOT BE ALLOWED OVERNIGHT AT THE INTERSECTION OF BATAVIA ROAD AND WILLIAMS ROAD DURING CONSTRUCTION OF THE WATER MAIN CONNECTION. THE HOLE SHALL BE FILLED AND BARRICADED AS NECESSARY. CONTRACTOR TO INSTALL AGGREGATE FOR TEMPORARY ACCESS OR TRENCH BACKFILL IMMEDIATELY AFTER WATER MAIN CONNECTION AND ADJACENT WATER MAIN IS INSTALLED. THE STONE SHALL BE INSTALLED UP TO A LEVEL SO THAT THE MAXIMUM DROP OFF FROM EXISTING PAVEMENT IS NOT MORE THAN 2" DURING THE INTERIM PERIOD PRIOR TO PLACEMENT OF THE PATCH. IMMEDIATELY PRIOR TO THE PLACEMENT OF THE PATCH, THE DEPTH OF STONE REQUIRED TO CONSTRUCT THE PATCH SHALL BE REMOVED.

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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

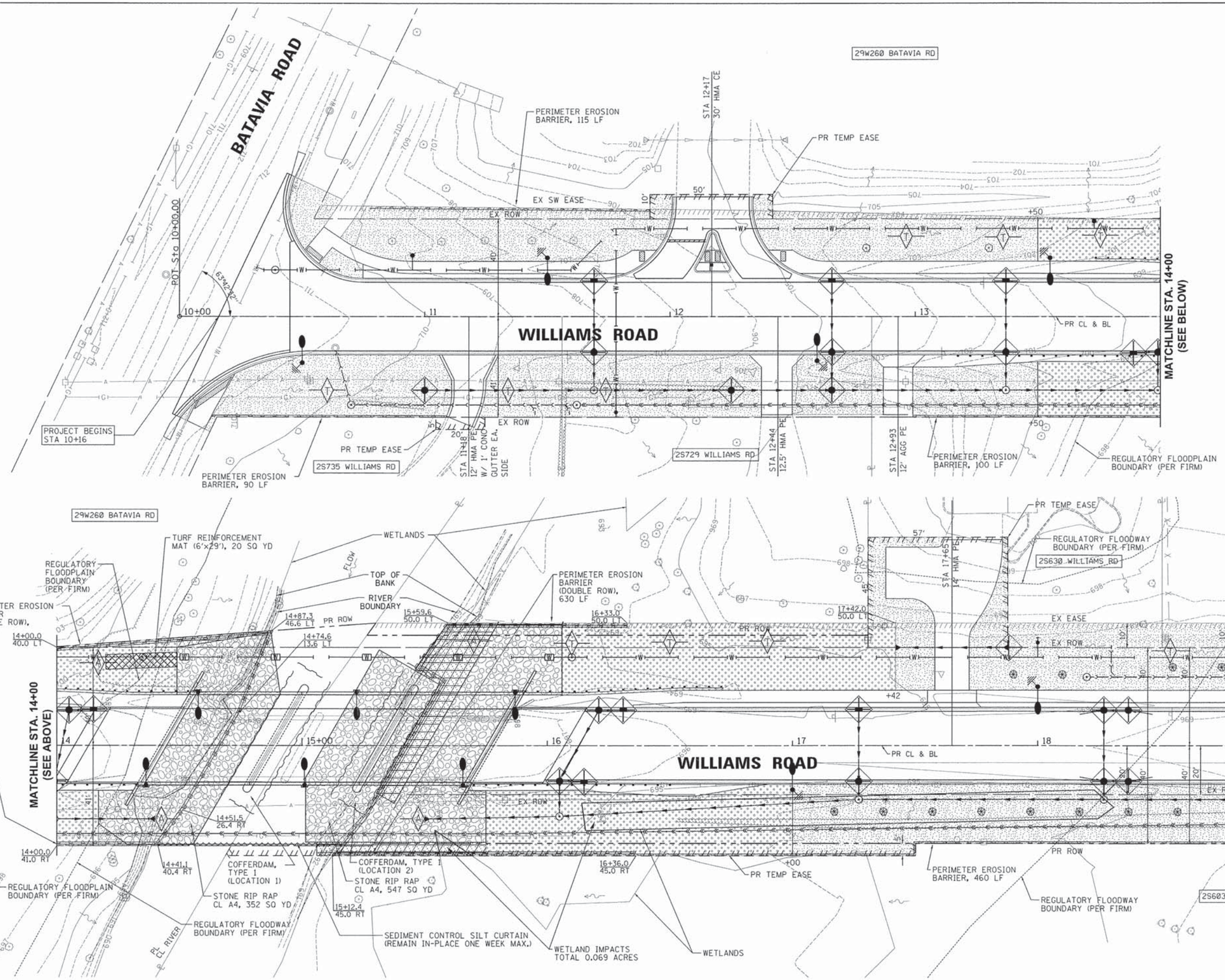
DESIGNED	TVW	REVISED	JPS 10/17/12
DRAWN	JPS	REVISED	JPS 11/30/12
CHECKED	JRL	REVISED	JPS 01/28/13
DATE	8/23/2012	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
DETOUR PLAN

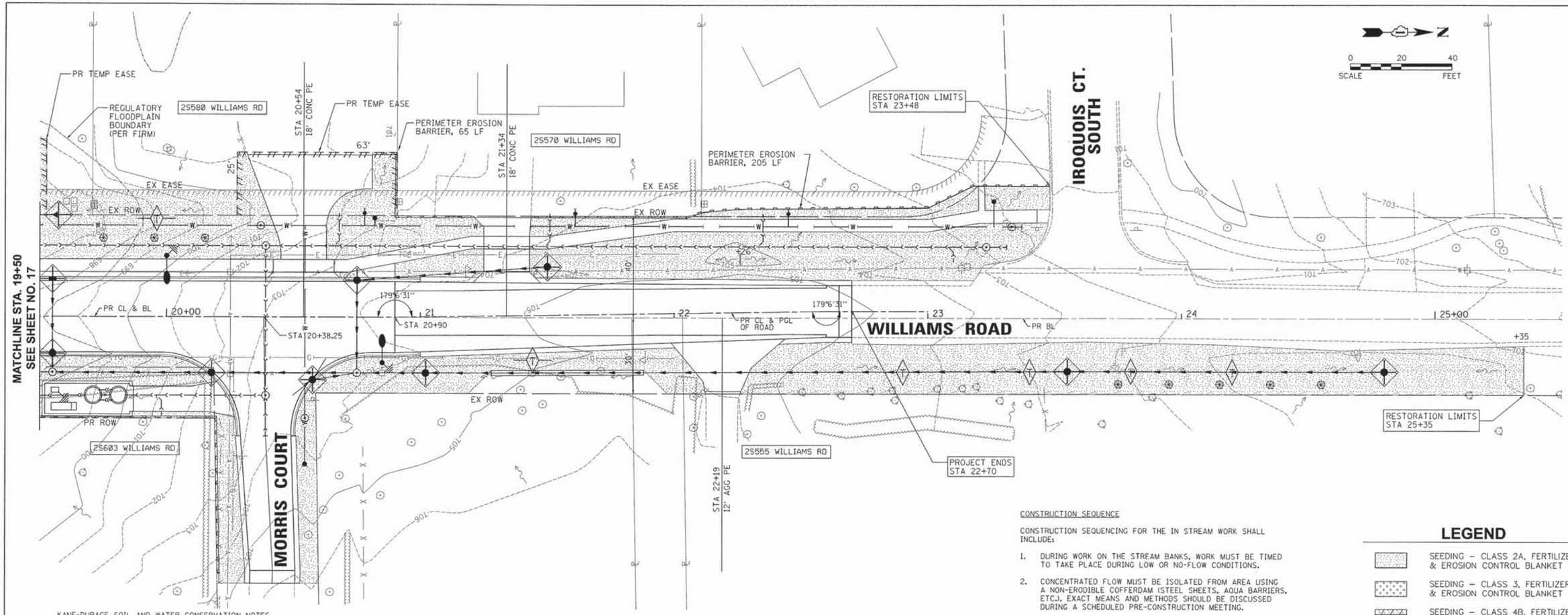
SCALE: 1"=500' | SHEET NO. 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	16
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-4003(344)			



Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	**CITY OF WARRENVILLE 3S258 MANNING AVENUE WARRENVILLE, IL 60555**	DESIGNED - TVW	REVISED - JPS 10/17/12	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT EROSION CONTROL AND LANDSCAPING PLAN**
		DRAWN - JPS	REVISED - JPS 11/30/12		SCALE: 1"=20' | SHEET NO. 1 OF 2 SHEETS | STA. 10+00 TO STA. 19+50
		CHECKED - JRL	REVISED - ~~JRW 01/08/13~~		
		DATE - 8/23/2012	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	17
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			



KANE-DUPAGE SOIL AND WATER CONSERVATION NOTES

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, LATEST EDITION.

THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) (630-584-7961) 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 THE FINAL INSPECTION.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

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.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.

WHEN WATER IS ENCOUNTERED IN A TRENCH OR ANY EXCAVATION, IT SHALL BE REMOVED DURING CONSTRUCTION OPERATIONS. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN ABOVE GROUND DEWATERING/PUMPING BASIN. DEWATERING DIRECTLY INTO FIELD TILES, STORMWATER STRUCTURES, SANITARY SEWERS, OR THE RIVER IS PROHIBITED. DEWATERING, IF REQUIRED, SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT DEWATERING PLANS TO DUPAGE COUNTY FOR REVIEW AND APPROVAL.

IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

SEDIMENT CONTROL MEASURES WILL BE SELECTED BY CONTRACTOR, METHODS APPROVED BY ENGINEER AND THE KDSWCD.

EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION AND SHALL BE REMOVED UPON APPROVAL OF THE ENGINEER.

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH ½" RAIN EVENT. ADDITIONAL SEDIMENT CONTROL WILL BE ADDED IF RIVER FLOW APPEARS TURBID.

SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES AND IN CRITICAL AREAS IMMEDIATELY UPON FINAL GRADING.

IF COFFERDAMS ARE TO BE USED THE CONTRACTOR SHALL SUBMIT PLANS AND CALCULATION TO DUPAGE COUNTY FOR REVIEW AND APPROVAL.

IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 14 DAYS OR MORE. TEMPORARY STABILIZATION SHALL OCCUR BY THE 7TH DAY AFTER WORK HAS CEASED.

WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.

ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS. INSPECTED DAILY AND CLEANED WHEN NECESSARY.

WHERE THERE IS LOW, INTERMITTENT AMOUNTS OF DEWATERING, PUMPS WITH FILTRATION BAGS SHALL BE USED. FILTRATION BAGS SHALL BE ATTACHED TO PUMP DISCHARGES AND SURROUNDED WITH A SECONDARY CONTAINMENT OR ON A STABILIZED AREA. FILTER BAGS SHALL NOT BE PLACED, WHOLE OR PARTIALLY, WITHIN AQUATIC AREAS (WETLANDS, STREAMS, ETC.) THE MATERIAL FOR THE FILTRATION BAG SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE OF THE ILLINOIS URBAN MANUAL, TABLE 2, CLASS I WITH A MINIMUM TENSILE STRENGTH OF 200 LBS. THE FILTRATION BAG SHALL BE SIZED PER MANUFACTURER RECOMMENDATIONS AND BASED ON THE SIZE OF THE PUMP.

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES, NOT BEING ACTIVITY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

IF THE CONTRACTOR USES A STABILIZED CONSTRUCTION ENTRANCE, IT SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL ON THE PLANS AT LOCATIONS APPROVED BY THE ENGINEER. A STABILIZED CONSTRUCTION ENTRANCE, IF REQUIRED, SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

IF LOOSE GRAY SANDY LOAM IS ENCOUNTERED DURING CONSTRUCTION OF THE COFFERDAMS, THE COFFERDAM SHALL BE CONSTRUCTED WITH A SEAL COAT. SEAL COAT, IF REQUIRED BY THE ENGINEER OR BY THE CONTRACTOR DUE TO SITE CONDITIONS, THE SEAL COAT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE COFFERDAM.

TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE USED AS REQUIRED AND DIRECTED BY THE ENGINEER. THE WASHOUT FACILITIES SHALL NOT BE LOCATED WITHIN THE FLOODPLAIN. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

SEDIMENT CONTROL SILT CURTAIN SHALL BE USED ONLY DURING INSTALLATION OF COFFERDAMS AND DURING BRIDGE REMOVAL. THE SILT CURTAIN SHALL REMAIN IN PLACE A MAXIMUM OF ONE WEEK.

CONSTRUCTION SEQUENCE

CONSTRUCTION SEQUENCING FOR THE IN STREAM WORK SHALL INCLUDE:

1. DURING WORK ON THE STREAM BANKS, WORK MUST BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
2. CONCENTRATED FLOW MUST BE ISOLATED FROM AREA USING A NON-ERODIBLE COFFERDAM (STEEL SHEETS, AQUA BARRIERS, ETC.). EXACT MEANS AND METHODS SHOULD BE DISCUSSED DURING A SCHEDULED PRE-CONSTRUCTION MEETING.
3. IF BYPASS IS NECESSARY, THE INLET OF THE HOSE SHALL BE PLACED IN A SUMP PIT AND THE OUTLET PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW.
4. IF DEWATERING THE CONSTRUCTION AREA IS NECESSARY, PLEASE BE SURE TO FILTER ALL WATER BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE ORIGINAL STREAM.
5. THE SIDE SLOPES MUST BE RE-SEEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS.

NOTES

1. TURF REINFORCEMENT MAT TO COVER 2' DITCH BOTTOM AND 2' UP EACH SIDE SLOPE (TYP.).
2. TEMPORARY DITCH CHECKS SHALL BE ROLLED EXCELSIOR AND PLACED AFTER INSTALLATION OF TURF REINFORCEMENT MAT, SEEDING, AND EROSION CONTROL BLANKET.
3. INLET FILTERS SHALL BE USED AT CURB STRUCTURES FOR INLET AND PIPE PROTECTION.
4. INLET AND PIPE PROTECTION SHALL BE SILT FILTER FABRIC TYPE.
5. FILTER FABRIC SHALL BE USED AT ALL RIP RAP AREAS.
6. NO STOCKPILES SHALL BE ALLOWED IN THE FLOODPLAIN.
7. AGGREGATE DITCH CHECKS WITH FILTER FABRIC SHALL BE INSTALLED IMMEDIATELY AFTER INITIAL GRADING ACTIVITIES. FILTER FABRIC WILL BE PAID FOR SEPARATELY.

LEGEND

- SEEDING – CLASS 2A, FERTILIZER & EROSION CONTROL BLANKET
- SEEDING – CLASS 3, FERTILIZER & EROSION CONTROL BLANKET
- SEEDING – CLASS 4B, FERTILIZER & EROSION CONTROL BLANKET
- SEEDING – CLASS 3, FERTILIZER & TURF REINFORCEMENT MAT
- PROPOSED RIPRAP
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- AGGREGATE DITCH CHECK W/ FILTER FABRIC
- COFFERDAM, TYPE 1
- SEDIMENT CONTROL SILT CURTAIN
- INLET AND PIPE PROTECTION
- TREE (50' C-C MIN SPACING)
- ORNAMENTAL TREE (20' C-C MIN SPACING)

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WARRENVILLE, IL 60555

DESIGNED	-	TVW	REVISED	-	JPS 10/17/12
DRAWN	-	JPS	REVISED	-	JPS 11/30/12
CHECKED	-	JRL	REVISED	-	JPS 01/28/13
DATE	-	8/23/2012	REVISED	-	PER DUPAGE CO. 1/28/13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1"=20' | SHEET NO. 2 OF 2 SHEETS | STA. 19+50 TO STA. 23+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	18
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

Plotted: 1/29/2013 at 1423 PM By: JScheidt

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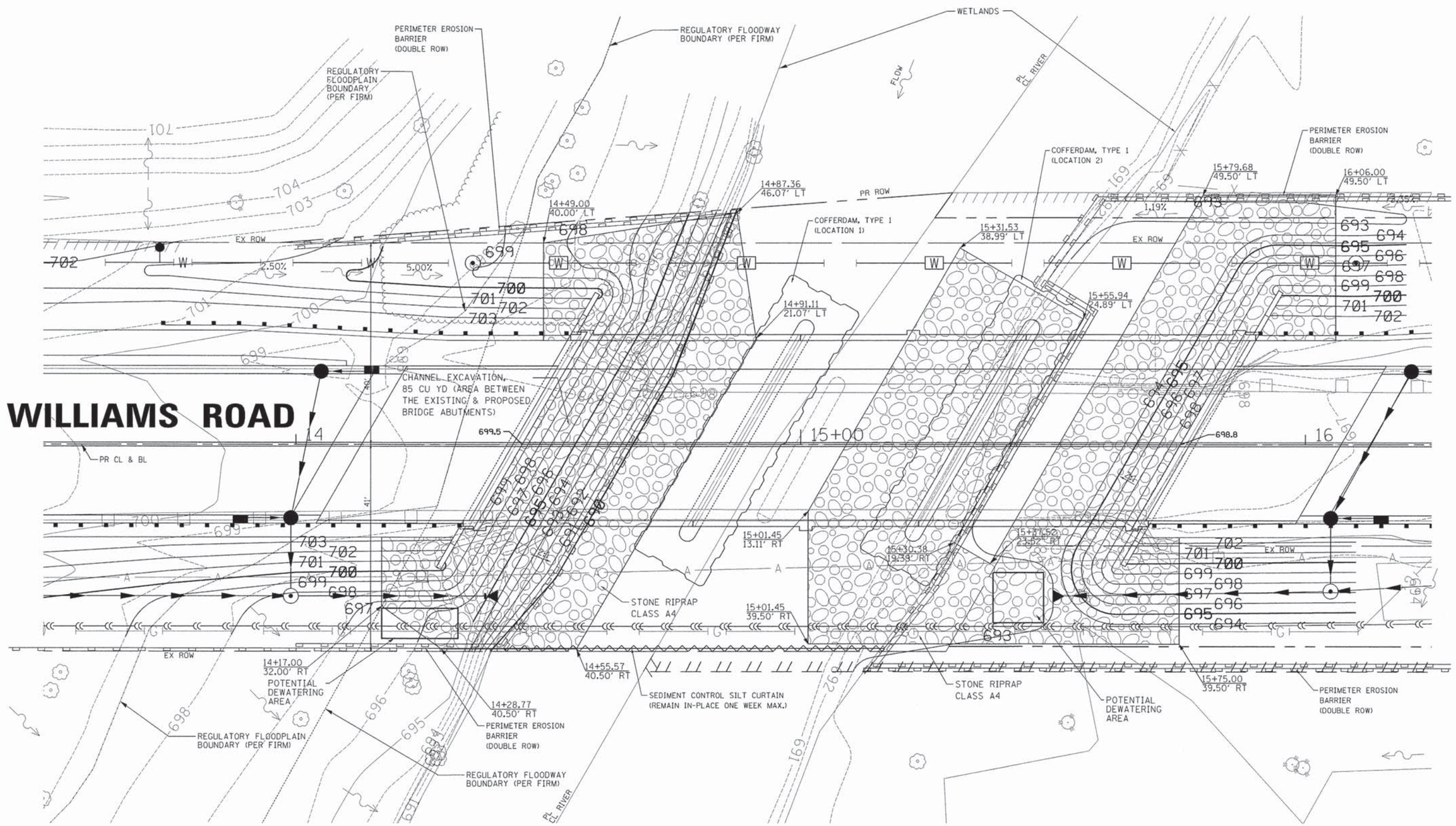

NOTE:
THE OVERALL AND EXACT METHOD OF DEWATERING SHALL BE COORDINATED WITH THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT BEFORE CONSTRUCTION COMMENCES.

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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED - TVW	REVISED - JPS 10/17/12
DRAWN - JPS	REVISED - JPS 11/30/12
CHECKED - JRL	REVISED - TVW 1/15/13
DATE - 8/23/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
BRIDGE GRADING PLAN

SCALE: 1"=10' | SHEET NO. 1 OF 1 SHEETS | STA. 13+50 TO STA. 16+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	19
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

Plotted: 1/11/2013 2:43:59 PM By: JSchmidt
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BATAVIA ROAD

INL TY B, 3' DIA.
W/ TY 11V FR & GR
11+69, 15.58' LT
TC 708.46
INV E 704.31, 12"

12" SS TY 2
PVC SDR 26
29' @ 1.00%
TB 4.1 CY 29'

CB TY A, 4' DIA.
W/ TY 11V FR & GR
11+69, 15.58' RT
TC 708.46
INV W 704.02, 12"
INV E 702.59, 12"

EX SW EASE

EX ROW

POT Sta 10+00.00

63°42'32"

10+00

+45

50'R

40'

PROJECT BEGINS
STA 10+16

CB TY C, 2' DIA.
W/ TY 8 GR
11+00, 30' RT
RIM 707.60
INV N 704.50, 12"

12" SS TY 1
PVC SDR 26
69' @ 3.00%
TB 6.5 CY 18'

PR TEMP EASE

12" SS TY 2
PVC SDR 26
16' @ 1.00%
TB 1.6 CY 2'

MH TY A, 4' DIA.
W/ TY 1 FR, CL
11+69, 30' RT
RIM 705.85
INV N, S, W 702.43, 12"

2S735 WILLIAMS RD

PR TEMP EASE

29W260 BATAVIA RD

INL TY B, 3' DIA.
W/ TY 11V FR & GR
12+66, 15.58' LT
TC 705.89
INV E 701.74, 12"

12" SS TY 2
PVC SDR 26
29' @ 1.00%
TB 4.1 CY 29'

CB TY A, 4' DIA.
W/ TY 11V FR & GR
12+66, 15.58' RT
TC 705.89
INV W 701.45, 12"
INV E 699.68, 12"

10'

50'

PR CL & BL

11

12

13

12" SS TY 2
PVC SDR 26
16' @ 1.00%
TB 1.7 CY 2'

12" SS TY 2
PVC SDR 26
16' @ 1.00%
TB 4.3 CY 6'

12" SS TY 1
PVC SDR 26
56' @ 3.00%

CB TY A, 4' DIA.
W/ TY 8 GR
12+25, 30' RT
RIM 704.50
INV N, S, 700.75, 12"

12" SS TY 1
PVC SDR 26
41' @ 3.00%
TB 10.1 CY 16'

CB TY A, 4' DIA.
W/ TY 8 GR
12+66, 30' RT
RIM 703.20
INV S, W 699.52, 12"
INV N 698.84, 12"

12" SS TY 1
PVC SDR 26
71' @ 3.00%
TB 13.0 CY 16'

2S729 WILLIAMS RD

INL TY B, 3' DIA.
W/ TY 11V FR & GR
13+37, 15.58' LT
TC 704.14
INV E 699.16, 12"

CB TY A, 4' DIA.
W/ TY 11V FR & GR
13+90, 15.58' RT
TC 703.43
INV NW 697.56, 12"
INV S, E 695.56, 12"
ROTATE ECCENTRIC STRUCTURE
TO NOT CONFLICT WITH
PROPOSED GUARDRAIL POSTS

INL TY B, 3' DIA.
W/ TY 11V FR & GR
13+89, 15.58' RT
TC 703.48
INV N 695.66, 12"
ROTATE ECCENTRIC STRUCTURE
TO NOT CONFLICT WITH
PROPOSED GUARDRAIL POSTS

12" SS TY 2
PVC SDR 26
29' @ 1.00%
TB 6.5 CY 29'

MATCHLINE STA. 14+00
SEE SHEET NO. 21

MH TY A, 4' DIA.
W/ TY 1 FR, CL
13+37, 30' RT
RIM 700.61
INV S, W 696.71, 12"
INV N 694.71, 15"

CB TY A, 4' DIA.
W/ SPL FR & GR
13+37, 15.58' RT
RIM 704.14
INV W 698.87, 12"
INV E 696.87, 12"
ROTATE ECCENTRIC STRUCTURE
TO NOT CONFLICT WITH
PROPOSED GUARDRAIL POSTS

12" SS TY 2
PVC SDR 26
10' @ 1.00%
TB 8.0 CY 10'

15" SS TY 2
PVC SDR 26
62' @ 0.34%

12" SS TY 2
PVC SDR 26
16' @ 1.00%
TB 5.1 CY 5'

MH TY A, 4' DIA.
W/ TY 1 FR, CL
BOLTED LID
13+95, 30' RT
RIM 698.00
INV W 695.40, 12"
INV N, S 694.50, 15"

REGULATORY FLOODPLAIN
BOUNDARY (PER FIRM)

REGULATORY FLOODWAY
BOUNDARY (PER FIRM)

0 20 40
SCALE FEET

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

WILLIAMS ROAD

VPI STA. 10+60.00
VPI ELEV. 711.18
K = 25
30.00' V.C.

VPC +45.00
EL. 711.39

VPT +75.00
EL. 710.78

-2.13 %

-1.43%

-2.64%

MEET EXISTING +16

GND EL @ FH

PR CL & BL PROFILE

EX CL PROFILE

-2.45% (R)

+50
708.80 (R)
RIGHT DITCH PROFILE
704.4 (EX)

EX 10" SAN
703.43 (EX)
703.38 (EX)

704.4 (L)
703.73 (EX)
703.83 (R)

12" X 12" X 12" TEE

GATE VALVE, 12"

704.03 (R)
703.93 (R)
10" SAN @ 0.42% (R)

12" X 12" X 6" TEE

+35
706.70 (R)
10" SAN @ 0.55% (R)
12" SS @ 3.00% (R)

704.50 (R)
WATER MAIN, 12" D.I. CL 52 (L)
SANITARY FORCE MAIN, 8"
C-900, PC 200, DR 14 (R)
SLOPE @ 1.00% (SEE DETAIL)

702.43 (R)
704.70 (R)
8" x 4" REDUCER
11 1/4° BEND

SANITARY FORCE MAIN, 4"
C-900, PC 200, DR 14 (R)
11 1/4° BEND

704.35 (R)
704.60 (R)

2.50% (R)

12" SS @ 3.00%

+50
704.00 (L)

12+10
699.7 (R)
TRANSITION
PIPE MATERIAL

700.75 (R)

12" SS @ 3.00% (R)

12+50
697.5 (L)
699.52 (R)

698.84 (R)
12+66
698.4 (R)

LEFT DITCH PROFILE

VPI STA. 13+50.00
VPI ELEV. 703.51
K = 42
90.00' V.C.

VPC +05.00 EL. 704.70

VPT +95.00 EL. 703.28

-2.64%

-0.50%

-2.50% (L)

GND EL @ FH

12" SS @ 3.00% (R)

15" SS @ 0.34% (R)
695.40 (R)

696.71 (R)
694.71 (R)

13+50
694.1 (R)

694.50 (R)

13+75
694.3 (L)

14+00
691.0 (R)

12" X 12" X 6" TEE

SANITARY FORCE MAIN,
4" (SPL), HDD, HDPE PR 200
DR 9 WITH FUSED
JOINTS (R)

715 710 705 700 695 690 685

EX CL ELEV.
PR CL ELEV.

712.13
711.81 MEET EXISTING
711.37
711.32
711.13
710.05
710.12
708.61
708.80
707.14
707.48
705.40
706.15
703.37
704.83
704.33
703.92
701.26
703.75
703.61
703.39
699.59
703.26

10+00 +16 10+50 +60 11+00 11+50 12+00 12+50 13+00 +20 +40 13+50 +60 +80 14+00

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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED	TVW	REVISED	JPS 10/17/12
DRAWN	JPS	REVISED	JPS 11/30/12
CHECKED	JRL	REVISED	JPS 01/28/13
DATE	8/23/2012	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
STORM SEWER PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 1 OF 3 SHEETS | STA. 10+00 TO STA. 14+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	20
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, R/W, C/L OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, PROFILE CHECKED, R/W, NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

Plotted: 7/31/2014 3:58:08 PM By: JSchmidt

PATH: N:\3S\Civil\Warrenville\Williams Rd\Plan\Williams Rd Plan Eng\WMS800PP Standard.dgn

29W260 BATAVIA RD

MATCHLINE STA. 14+00
SEE SHEET NO. 20

MATCHLINE STA. 20+00
SEE SHEET NO. 22

SEE BRIDGE PLANS FOR ADDITIONAL INFORMATION

REGULATORY FLOODWAY BOUNDARY (PER FIRM)

REGULATORY FLOODPLAIN BOUNDARY (PER FIRM)

WETLANDS

FLOW

PR ROW

EX ROW

EX EASE

PR TEMP EASE

PR CL & BL

PIPE UNDERDRAIN, 6" 10' EACH @ 1.00% (TYP.)

12" SS TY 2 PVC SDR 26 12' @ 1.00% TB 1.3 CY 12'

CB TY A, 4' DIA. W/ TY 11V FR & GR 14+05, 15.58' RT TC 703.40 INV N, SE 697.86, 12"

INL TY B, 3' DIA. W/ TY 11V FR & GR 14+15, 15.58' LT TC 703.35 INV S 697.96, 12"

12" SS TY 2 PVC SDR 26 10' @ 1.00% TB 2.3 CY 10'

12" SS TY 1 PVC SDR 26 10' @ 1.00% TB 1.3 CY 10'

CB TY A, 4' DIA. W/ TY 11V FR & GR 16+21, 15.58' LT TC 702.31 INV N 698.83, 12" INV SE 696.83, 12"

12" SS TY 2 PVC SDR 26 29' @ 1.00% TB 4.4 CY 29'

INL TY B, 3' DIA. W/ TY 11V FR & GR 16+31, 15.58' LT TC 702.25 INV S 698.93, 12"

INL TY B, 3' DIA. W/ TY 11V FR & GR 17+27, 15.58' LT TC 700.58 INV E 696.43, 12"

12" SS TY 2 PVC SDR 26 33' @ 1.00% TB 9.9 CY 33'

15" SS TY 1 PVC SDR 26 42' @ 0.26% TB 5.7 CY 18'

15" METAL END SECTION 17+42, 40' LT INV N 694.98, 15"

2S630 WILLIAMS RD

15" METAL END SECTION 17+88, 40' LT INV S 695.10, 15"

CB TY A, 4' DIA. W/ TY 11 FR & GR 18+27, 15.58' LT TC 699.36 INV E, N 695.10, 12"

CB TY A, 4' DIA. W/ TY 11 FR & GR 18+27, 15.58' RT TC 699.36 INV W, N, S 694.81, 12"

15" METAL END SECTION 19+20, 40' LT INV N 695.50, 15"

12" SS TY 2 PVC SDR 26 10' @ 1.00% TB 1.3 CY 10'

CB TY A, 4' DIA. W/ TY 11 FR & GR 18+37, 15.58' LT TC 699.35 INV S 695.20, 12"

12" SS TY 2 PVC SDR 26 29' @ 1.00% TB 5.0 CY 29'

2S580 WILLIAMS RD

15" SS TY 1 PVC SDR 26 33' @ 2.43% TB 2.0 CY 16'

15" METAL END SECTION 19+57, 40' LT INV S 696.40, 15"

INL TY B, 3' DIA. W/ TY 11V FR & GR 19+55, 15.58' LT TC 700.76 INV E 696.61, 12"

12" SS TY 2 PVC SDR 26 29' @ 1.00% TB 4.4 CY 29'

18" SS TY 2 PVC SDR 26 63' @ 0.59% TB 56.8 CY 63'

12" SS TY 1 PVC SDR 26 8' @ 1.00% TB 0.7 CY 2'

SANITARY SEWER LIFT STATION (SEE DETAILED PLAN)

CB TY A, 4' DIA. W/ TY 11V FR & GR 19+55, 15.58' RT TC 700.76 INV W, E 696.32, 12"

2S603 WILLIAMS RD

15" PRC FES W/ GRATE 14+40, 30' RT INV S 694.36, 15"

24" PRC FES W/ GRATE 15+50, 30' RT INV N 693.00, 24"

15" SS TY 1 RCCP CL IV RUBBER GASKET 35' @ 0.34%

24" SS TY 1 RCCP CL IV RUBBER GASKET 49' @ 0.18%

CB TY A, 5' DIA. W/ TY 11V FR & GR 16+05, 15.58' RT TC 702.39 INV NW 696.50, 12" INV N, E 694.50, 12" ROTATE ECCENTRIC STRUCTURE TO NOT CONFLICT WITH PROPOSED GUARDRAIL POSTS

12" SS TY 2 PVC SDR 26 15' @ 1.00% TB 2.2 CY 2'

MH TY A, 5' DIA. W/ TY 1 FR, CL BOLTED LID 16+05, 29' RT RIM 697.11 INV W 694.35, 12" INV N, S 693.10, 24"

12" SS TY 2 PVC SDR 26 10' @ 1.00% TB 8.0 CY 10'

PR TEMP EASE

24" SS TY 1 RCCP CL IV RUBBER GASKET 122' @ 0.17%

12" SS TY 2 PVC SDR 26 8' @ 1.00% TB 1.3 CY 2'

WETLANDS

INL TY B, 3' DIA. W/ TY 11V FR & GR 16+15, 15.58' RT TC 702.34 INV S 694.60, 12" ROTATE ECCENTRIC STRUCTURE TO NOT CONFLICT WITH PROPOSED GUARDRAIL POSTS

MH TY A, 5' DIA. W/ TY 1 FR, CL BOLTED LID 17+27, 22' RT RIM 699.50 INV W 695.31, 12" INV N, S 693.31, 24"

CB TY A, 4' DIA. W/ TY 11 FR & GR 17+27, 15.58' RT TC 700.58 INV W 696.14, 12" INV E 695.39, 12"

24" SS TY 2 RCCP CL IV RUBBER GASKET 100' @ 0.17%

12" SS TY 1 PVC SDR 26 8' @ 1.00% TB 0.7 CY 2'

MH TY A, 5' DIA. W/ TY 1 FR, CL BOLTED LID 18+27, 22' RT RIM 698.28 INV W 694.73, 12" INV N 693.48, 21" INV S 693.48, 24"

REGULATORY FLOODWAY BOUNDARY (PER FIRM)

CB TY A, 4' DIA. W/ TY 11 FR & GR 18+37, 15.58' RT TC 699.35 INV S 694.91, 12"

21" SS TY 1 RCCP CL IV RUBBER GASKET 128' @ 1.11%

12" SS TY 2 PVC SDR 26 10' @ 1.00% TB 1.6 CY 10'

MH TY A, 5' DIA. W/ TY 1 FR, CL BOLTED LID 19+55, 22' RT RIM 699.68 INV W 696.24, 12" INV N 694.90, 18" INV S 694.90, 21"

REGULATORY FLOODPLAIN BOUNDARY (PER FIRM)

SCALE: HORIZONTAL 1" = 20' VERTICAL 1" = 5'

0 20 40 SCALE FEET

WILLIAMS ROAD

VPI STA. 16+65.00
VPI ELEV. 701.93
K = 46
90.00' V.C.

VPI STA. 18+46.00
VPI ELEV. 697.48
K = 49
260.00' V.C.
LOW PT STA = 18+37.01
LOW PT ELEV = 699.19

PR CL & BL PROFILE

EXISTING 100 YEAR FLOOD PLAIN 698.8

EX CL PROFILE @ FH

LEFT DITCH PROFILE

WATER MAIN, 12" D.I. CL 52 (L)

SANITARY FORCE MAIN, 4" (SPL), HDD, HDPE PR 200 DR 9 WITH FUSED JOINTS (R)

WATER MAIN, 12" HDD, HDPE PR 250 DR 9 WITH RESTRAINED JOINTS (L)

GATE VALVE, 12"

12" X 12" X 6" TEE

8" SAN @ 1.00% (L)

10" SAN @ 1.00% (R)

SANITARY FORCE MAIN, 4" C-900, PC 200, DR 14 (R)

TRANSITION PIPE MATERIAL

STA	EX CL ELEV.	PR CL ELEV.
14+00	699.59	703.26
14+50	698.52	703.01
15+00	698.24	702.76
15+50	698.10	702.51
16+00	697.24	702.26
16+20	702.16	
40 16+50 +60	702.01	696.13
	701.91	
+80	701.78	
17+00	701.46	
+20	695.62	701.06
40 17+50 +60	700.58	
+80	700.14	695.65
18+00	699.96	
+20	699.79	
40 18+50 +60	699.52	
+80	695.87	699.33
19+00	699.22	
+20	699.19	696.22
40 19+50 +60	699.21	
+80	699.24	
20+00	699.38	
+20	696.96	699.59
40 20+50 +60	699.89	
+80	700.27	698.44
21+00	700.49	
+20	700.73	
40 21+50 +60	700.90	701.83

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CITY OF WARRENVILLE
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WARRENVILLE, IL 60555

DESIGNED	TVW	REVISED	JPS 10/17/12
DRAWN	JPS	REVISED	JPS 11/30/12
CHECKED	JRL	REVISED	JPS 01/28/13
DATE	8/23/2012	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
STORM SEWER PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 3 SHEETS | STA. 14+00 TO STA. 20+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	21
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

PLAN / PROFILE — SURVEYED, PLOTTED, DRAWN, CHECKED, BM. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO. ____, DATE, BY

Plotted: 7/31/2014 3:58:42 PM By: JSchmidt

P:\ENG\Projects\Williams Rd\Bridge\MicroDpht\PP Sheets.dgn

PLAN — SURVEYED | PLOTTED | PLANS CHECKED | R.M. NOTED | STRUCTURE NOTATING CHYRD | NOTE BOOK | NO. | BY | DATE

2S580 WILLIAMS RD

12" SS TY 2
PVC SDR 26
38' @ 1.00%
TB 13.8 CY 38'

PR TEMP EASE

63'

25'

CB TY A, 4' DIA.
W/ TY IIV FR & GR
20+75, 15.58' LT
TC 704.04
INV N 699.92, 12"
INV E 697.92, 12"

2S570 WILLIAMS RD

12" SS TY 1
PVC SDR 26
75' @ 1.00%
TB 9.9 CY 75'

CB TY C, 2' DIA.
W/ TY 8 GR
21+50, 20' LT
RIM 703.81
INV S 700.67, 12"

2S550 WILLIAMS RD

IROQUOIS CT. SOUTH

EX ROW

MATCHLINE STA. 20+00
SEE SHEET NO. 21

179°6'31"

20+00
PR CL & BL

21

22

PR CL & PGL OF ROAD

179°6'31"

23

24

25+00
PR BL

PIPE UNDERDRAIN, 6"
10' EACH @ 1.00% (TYP.)

30'

+35

EX ROW

PR ROW

2S603 WILLIAMS RD

MORRIS CT.

CB TY A, 4' DIA.
W/ TY 8 GR
21+02, 22' RT
RIM 703.28
INV S, N 695.77, 18"

18" SS TY 2
PVC SDR 26
27' @ 0.59%

MH TY A, 4' DIA.
W/ TY 1 FR & GR
20+75, 22' RT
RIM 703.90
INV SE 698.40, 12"
INV W 697.54, 12"
INV S, N 695.61, 18"

12" SS TY 2
PVC SDR 26
18' @ 1.00%
TB 0.7 CY 2'

18" SS TY 2
PVC SDR 26
58' @ 0.59%
TB 54.3 CY 58'

CB TY A, 4' DIA.
W/ TY IIV FR & GR
20+16.99, 22.82' RT
TC 702.68
INV S, N 695.27, 18"

CB TY C, 2' DIA.
W/ TY II FR & GR
20+58.30, 25.53' RT
TC 702.94
INV NW 698.58, 12"

2S555 WILLIAMS RD

30" STEEL CASING PIPE
BORE AND JACK
60 LIN FT
(PROTECT TREES)

PROJECT ENDS
STA 22+70

18" SS TY 2
PVC SDR 26
253' @ 0.36%
TB 36.7 CY 26'

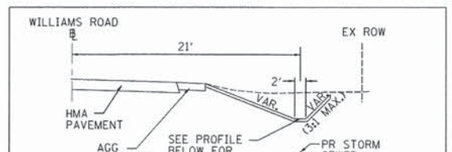
CB TY A, 4' DIA.
W/ TY 8 GR
23+55, 21' RT
RIM 702.55
INV S, N 696.68, 18"

GRADING AND SHAPING DITCHES
(STA 22+42 TO STA 25+35)

18" SS TY 1
PVC SDR 26
125' @ 0.36%

CB TY A, 4' DIA.
W/ TY 8 GR
24+80, 21' RT
RIM 700.00
INV S 697.13, 18"

WILLIAMS ROAD



GRADING AND SHAPING DITCHES DETAIL
(WILLIAMS RD STA 22+42 TO STA 25+35 RT)

N

0 20 40
SCALE FEET

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

PROFILE — SURVEYED | PLOTTED | PLANS CHECKED | R.M. NOTED | STRUCTURE NOTATING CHYRD | NOTE BOOK | NO. | BY | DATE

715
710
705
700
695
690
685

VPI STA. 20+90.00
VPI ELEV. 704.37
K = 68
90.00' V.C.

VPC +45.00 EL. 703.10

VPT +35.00 EL. 705.05

VPI STA. 22+25.00
VPI ELEV. 706.40
K = 21
90.00' V.C.
HIGH PT STA = 22+12.28
HIGH PT ELEV = 705.97

VPC +80.00 EL. 705.72

VPT +70.00 EL. 705.19
MEET EXISTING

GATE VALVE, 12"

PR CL & PGL PROFILE

EX CL PROFILE

LEFT DITCH PROFILE

RIGHT DITCH PROFILE

12" SS @ 1.00% (R)
+2.82%
+1.50%
+2.50% (R)
+1.00% (R)
+1.41% (L)
+2.50% (L)
12" SS @ 1.00% (L)
18" SS @ 0.59% (R)
18" SS @ 0.59% (R)
18" SS @ 0.36% (R)
+1.50%
-2.69%
-2.20%
-2.00% (R)
-2.41% (R)
-1.67% (R)
-2.00% (R)

GND EL @ FH
699.92 (L)
+50
704.43 (R)
+37
703.00 (R)
+20
701.00 (R)
+35

698.40 (R)
697.54 (R)
698.58 (R)
700.67 (L)
30" STEEL CASING PIPE
695.27 (R)
+29
698.20 (L)
695.61 (R)
695.77 (R)
21+00
695.3 (L)
697.13 (R)
696.68 (R)

WATER MAIN, 12" D.I. CL 52 (L)

12" PLUG (MJ) (L)
695.3 (L)
12" X 12" X 6" TEE
10" SAN @ 0.38% (L)
10" PLUG (L) 689.38
689.35 (L)
689.25 (L)

691.8 (L)
8" SAN @ 1.00% (R)
689.81 (L)
10" SAN @ 1.00% (R)
688.08 (R)
688.35 (L)
20+00
691.0 (L)
688.16 (R)
688.45 (L)

10" SAN @ 0.28% (L)

12" X 12" X 8" TEE
12" X 12" X 6" TEE

EX CL ELEV. / PR CL ELEV.

20+00	20+50 +60	+80	21+00	+20	21+50	+80	22+00	+20	+40 22+50 +60	+70	23+00	23+50	24+00	24+50	25+00	25+50
700.90 / 701.83	703.33 / 703.24	703.51	704.00	704.40 / 704.43	704.80	705.15 / 705.27	705.72	705.86 / 705.93	705.95	705.79 / 705.61 / 705.63	705.44 / 705.19 MEET EXISTING	704.53				

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CITY OF WARRENVILLE
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WARRENVILLE, IL 60555

DESIGNED	TVW	REVISED	-
DRAWN	JPS	REVISED	-
CHECKED	JRL	REVISED	-
DATE	8/23/2012	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
STORM SEWER PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 3 OF 3 SHEETS | STA. 20+00 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	22
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

Plotted: 9/26/2012 4:43:34 PM By: JSchmidt

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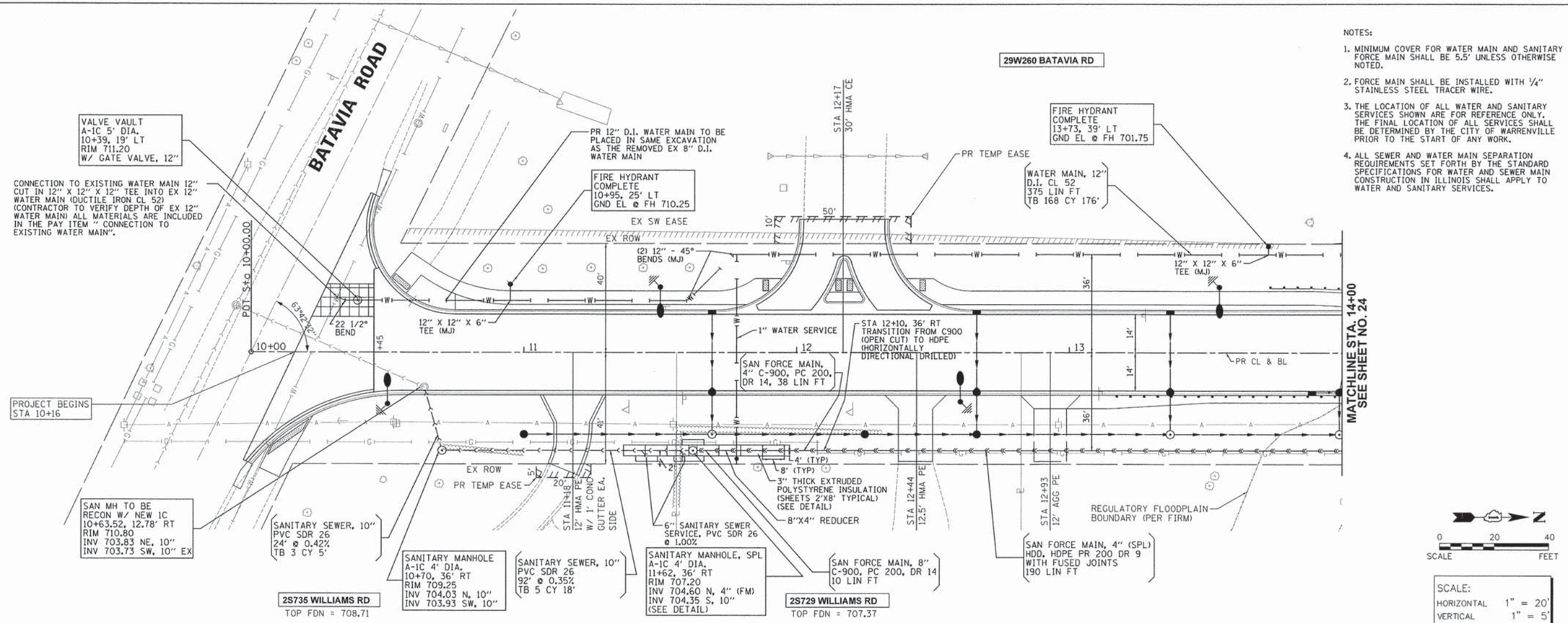
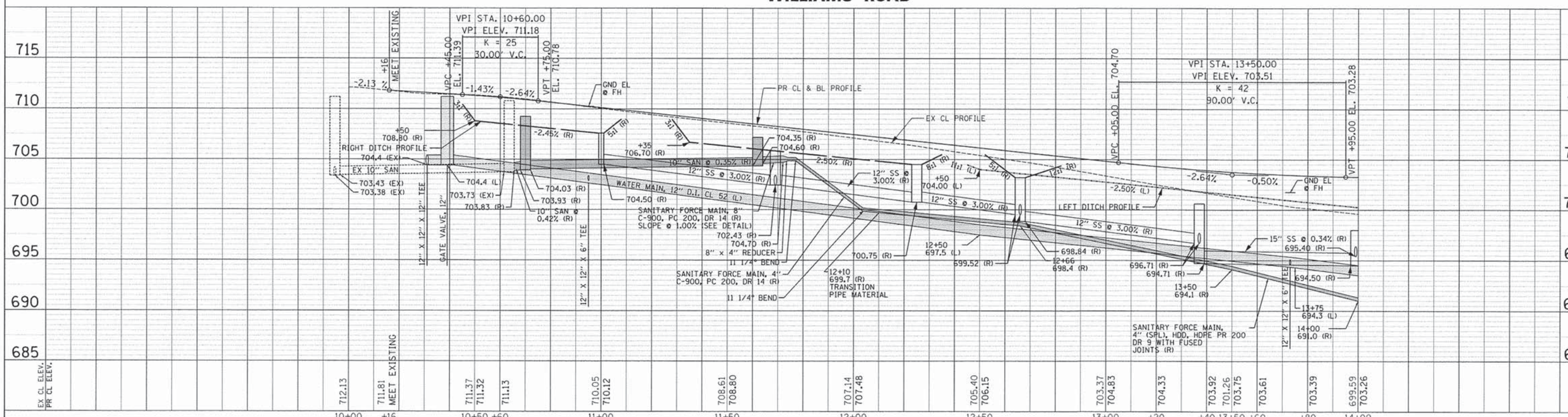
NOTES:

1. MINIMUM COVER FOR WATER MAIN AND SANITARY FORCE MAIN SHALL BE 5.5' UNLESS OTHERWISE NOTED.
2. FORCE MAIN SHALL BE INSTALLED WITH 1/4" STAINLESS STEEL TRACER WIRE.
3. THE LOCATION OF ALL WATER AND SANITARY SERVICES SHOWN ARE FOR REFERENCE ONLY. THE FINAL LOCATION OF ALL SERVICES SHALL BE DETERMINED BY THE CITY OF WARRENVILLE PRIOR TO THE START OF ANY WORK.
4. ALL SEWER AND WATER MAIN SEPARATION REQUIREMENTS SET FORTH BY THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS SHALL APPLY TO WATER AND SANITARY SERVICES.



SCALE: 0 20 40 FEET

SCALE:	
HORIZONTAL	1" = 20'
VERTICAL	1" = 5'



DESIGNED	TVW	REVISED	JPS 10/17/12
DRAWN	JPS	REVISED	JPS 11/30/12
CHECKED	JRL	REVISED	JPS 01/28/13
DATE	8/23/2012	REVISED	

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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
WATER AND SANITARY PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 1 OF 3 SHEETS | STA. 10+00 TO STA. 14+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	23
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

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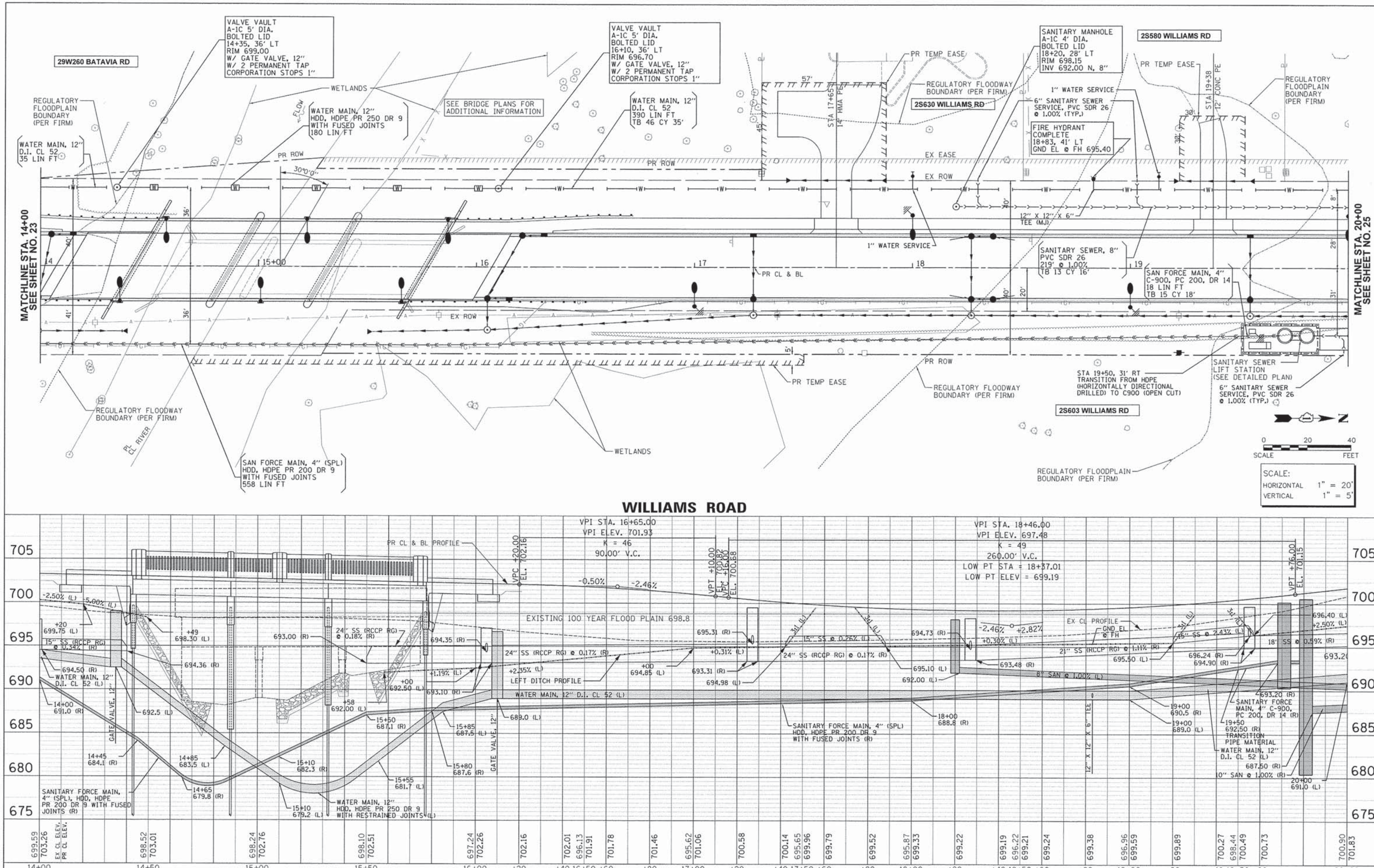

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	**CITY OF WARRENVILLE 3S258 MANNING AVENUE WARRENVILLE, IL 60555**	DESIGNED - TVW	REVISED - JPS 10/17/12	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - JPS	REVISED - JPS 11/30/12	
		CHECKED - JRL	REVISED - JPS 01/28/13	
		DATE - 8/23/2012	REVISED -	

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
WATER AND SANITARY PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 3 SHEETS | STA. 14+00 TO STA. 20+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	24
	C-91-515-10	CONTRACT NO. 63761		
		ILLINOIS FED. AID PROJECT BRM-9003(638)		

Plotted: 7/31/2014 3:59:55 PM By: JSchmidt

VALVE VAULT
A-IC 5' DIA.
20+37, 36' LT
RIM 700.85
W/ GATE VALVE, 12"

W MAIN BOT PIPE=692.9
SAN S TOP PIPE=689.4
SEPARATION=3.5'

SANITARY MANHOLE
A-IC 4' DIA.
20+39, 28' LT
RIM 702.30
INV 689.81 S, 8"
INV 688.45 N, 10"
INV 688.35 E, 10"

SANITARY SEWER, 10"
PVC SDR 26
59' @ 0.29%
TB 105 CY 59'

2S580 WILLIAMS RD

PR TEMP EASE

63'

25'

STA 20+54
18' CONC PE

12" X 12" X 8" TEE (MJ)

FIRE HYDRANT
COMPLETE
20+82, 39' LT
GND EL @ FH 703.50

2S570 WILLIAMS RD

TOP FDN = 703.1 +/-

STA 21+34
18' CONC PE

6" SANITARY SEWER SERVICE, PVC SDR 26 @ 1.00% (TYP.)

1" WATER SERVICE

12" X 12" X 6" TEE (MJ)

1" WATER SERVICE

CONC

HMA

EX ROW

**MATCHLINE STA. 20+00
SEE SHEET NO. 24**

20+00
PR CL & BL

179°6'31"

21

22

PR CL & PGL OF ROAD

179°6'31"

23

PR BL

24

25+00

PR ROW

2S603 WILLIAMS RD

WATER MAIN, 8"
D.I. CL 52
94 LIN FT
TB 80 CY 94'

SS BOT PIPE=695.4
W MAIN TOP PIPE=693.9
SEPARATION=1.5'
NOTE: DEPTH OF WATER MAIN EXCEEDS 5.5' TO ACCOMMODATE 1.5' CLEARANCE BELOW STORM SEWER. USE 2-45° VERTICAL BENDS EAST OF STORM SEWER TO BRING WATER MAIN TO 5.5' DEPTH FROM FINISHED GRADE

2S555 WILLIAMS RD

PROJECT ENDS
STA 22+70

SANITARY SEWER, 10"
PVC SDR 26
58' @ 1.00%
TB 106 CY 58'

SANITARY MANHOLE
A-IC 4' DIA.
20+39, 31' RT
RIM 702.70
INV 688.18 W, 10"
INV 688.18 E, 8"
INV 688.08 S, 10"

SANITARY SEWER, 8"
PVC SDR 26
16' @ 0.44%
TB 29 CY 16'

8" PLUG (INV = 688.25')

VALVE VAULT
A-IC 4' DIA.
20+54.5, 40' RT
RIM 703.45
W/ GATE VALVE, 8"

8" X 6" REDUCER (MJ)

FIRE HYDRANT
(W/O AUX. VALVE)
20+54.5, 58' RT
GND EL @ FH 703.80

MORRIS CT.

STA 22+19
12" AGG PE

IROQUOIS CT. SOUTH

SANITARY SEWER, 10"
PVC SDR 26
284' @ 0.28%
TB 360 CY 116'

WATER MAIN, 12"
D.I. CL 52
340 LIN FT
TB 228 CY 246'

1" WATER SERVICE

FIRE HYDRANT
COMPLETE
23+26, 46' LT
GND EL @ FH 702.10

VALVE VAULT
A-IC 5' DIA.
23+33, 36' LT
RIM 702.00
W/ GATE VALVE, 12"

12" PLUG (MJ)

12" X 12" X 6" TEE (MJ)

10" PLUG (INV=689.38)

SANITARY SEWER, 10"
PVC SDR 26
8' @ 0.38%

SANITARY MANHOLE
A-IC 4' DIA.
23+23, 28' LT
RIM 702.90
INV 689.35 N, 10"
INV 689.25 S, 10"

WILLIAMS ROAD

N

0 20 40
SCALE FEET

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
BLK. NOTED
NOTE BOOK
NO.
STRUCTURE NOTATNS CK'AD
BY
DATE

VPI STA. 20+90.00
VPI ELEV. 704.37
K = 68
90.00' V.C.

VPC +45.00 EL. 703.10

VPT +35.00 EL. 705.05

VPC +80.00 EL. 705.72

VPI STA. 22+25.00
VPI ELEV. 706.40
K = 21
90.00' V.C.
HIGH PT STA = 22+12.28
HIGH PT ELEV = 705.97

VPT +70.00 EL. 706.19
MEET EXISTING

GATE VALVE, 12"

PR CL & PGL PROFILE

EX CL PROFILE

LEFT DITCH PROFILE

RIGHT DITCH PROFILE

12" SS @ 1.00% (R)

+2.82%

+1.50%

+2.50% (R)

+1.00% (R)

+1.41% (L)

-2.69%

-2.20%

-2.00% (R)

-2.41% (R)

-1.67% (R)

-2.00% (R)

GND EL @ FH 699.92 (L)

12" SS @ 1.00% (L)

+50
704.43 (R)

700.67 (L)

698.40 (R)

697.54 (R)

698.58 (R)

18" SS @ 0.59% (R)

695.61 (R)

695.27 (R)

+29
698.20 (L)

695.77 (R)

21+00
695.3 (L)

30" STEEL CASING PIPE

18" SS @ 0.36% (R)

WATER MAIN, 12" D.I. CL 52 (L)

+37
703.00 (R)

+20
701.00 (R)

+35

18" SS @ 0.36% (R)

697.13 (R)

696.68 (R)

12" PLUG (MJ) (L)

695.3 (L)

10" SAN @ 0.38% (L)

10" PLUG (L) 689.38

689.25 (L)

689.35 (L)

10" SAN @ 0.28% (L)

+2.50% (L)

31' (L)

18" SS @ 0.59% (R)

695.27 (R)

+29
698.20 (L)

691.8 (L)

8" SAN @ 1.00% (L)

689.81 (L)

10" SAN @ 1.00% (R)

688.08 (R)

688.35 (L)

20+00
691.0 (L)

688.18 (R)

688.45 (L)

12" X 12" X 8" TEE

12" X 12" X 6" TEE

715
710
705
700
695
690
685

EX CL ELEV.
PR PGL ELEV.

700.90
701.83

703.33
703.24

703.51

704.00

704.40
704.43

704.80

705.15
705.27

705.72

705.86
705.93

705.95

705.79
705.61
705.63

705.44
705.19
MEET EXISTING

704.53

20+00
20+50 +60
+80
21+00
+20
21+50
+80
22+00
+20
+40 22+50 +60
+70
23+00
23+50
24+00
24+50
25+00
25+50

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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED - TVW	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - JRL	REVISED -	
DATE - 8/23/2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
WATER AND SANITARY PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 3 OF 3 SHEETS | STA. 20+00 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	25
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

Plotted: 9/26/2012 5:08:54 PM By: JSchmidt

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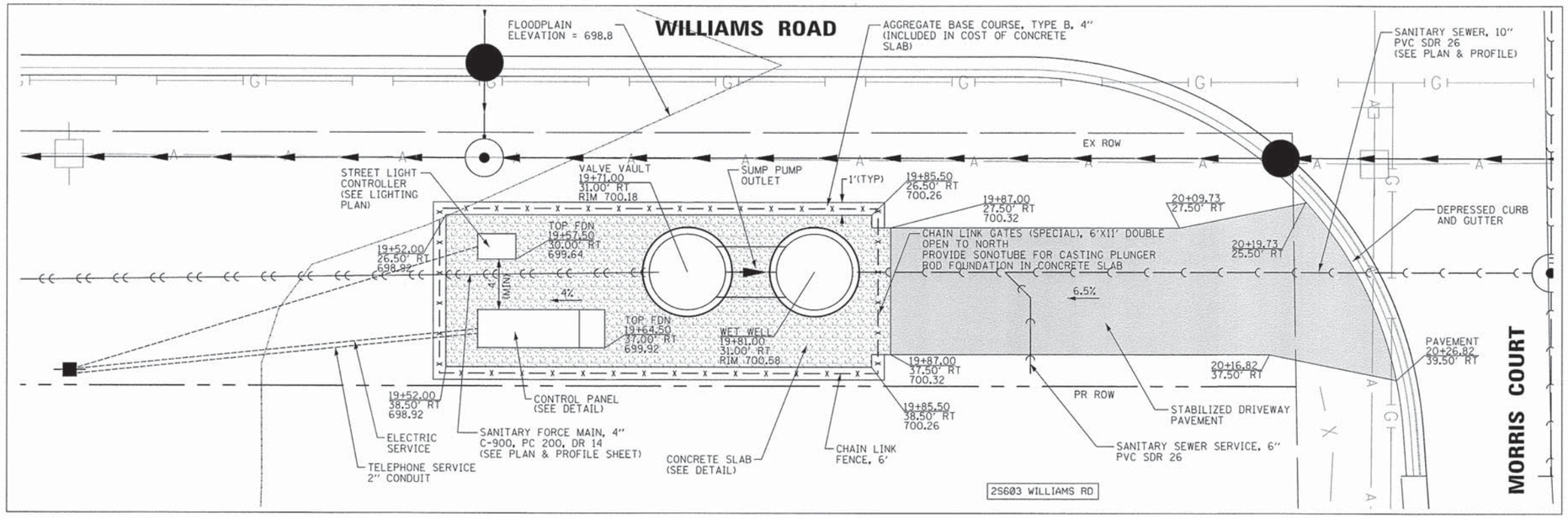
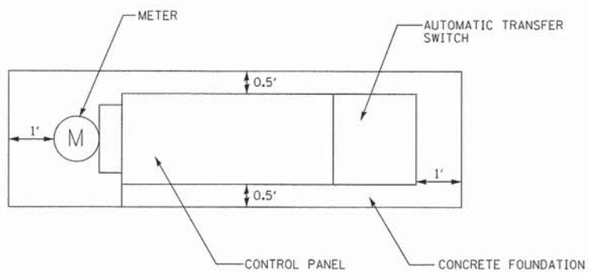
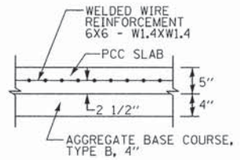


SANITARY SEWER LIFT STATION SITE LAYOUT AND GRADING PLAN



NOTE:
THE CONCRETE FOUNDATION FOR THE CONTROL PANEL SHALL HAVE A MINIMUM DEPTH TO THE BOTTOM OF THE FOUNDATION OF 4' BELOW THE FINISHED GRADE OF THE CONCRETE SLAB.

CONTROL PANEL DETAIL
SCALE: N.T.S.



CONCRETE SLAB AT LIFT STATION DETAIL
SCALE: N.T.S.

NOTES:

1. SANITARY SEWER LIFT STATION PAY ITEM INCLUDES FURNISHING AND INSTALLING THE WET WELL STRUCTURE, VALVE VAULT STRUCTURE, AND ALL PIPING, PUMPS, VALVES, FITTINGS, AND ACCESSORIES WITHIN BOTH STRUCTURES AND BETWEEN THE WET WELL AND VALVE VAULT EXCLUSIVE OF ALL ELECTRICAL AND SCADA RELATED ITEMS. THE LIFT STATION SHALL INCLUDE A GUIDERAIL OR GUIDE CABLE SYSTEM FOR PUMP REMOVAL WITHOUT ENTERING THE WET WELL, TWO SUBMERSIBLE PUMPS WITH HYDRAULIC SEALING FLANGES, POWER CORDS, PUMP GUIDES, PUMP MOUNTING PLATES, WITH DISCHARGE ELBOWS AND UPPER AND LOWER GUIDE RAIL SUPPORTS, SEALING FLANGES, ACCESS FRAMES AND COVERS, LADDERS, GUIDE RAIL SUPPORTS, CARRIER ASSEMBLY, STAINLESS STEEL PUMP LIFTING CHAIN WITH HOOKS, VENT PIPING, SUMP PUMP, THE VALVE VAULT SUMP PUMP OUTLET PIPE, THE WET WELL PROTECTIVE COATING, CONCRETE FOUNDATION FOR THE CONTROL PANEL, AND THE CONTRACTOR AND PUMP MANUFACTURER'S START-UP SERVICES. THIS PAY ITEM SHALL ALSO INCLUDE EXCAVATION, BACKFILL, TRENCH BACKFILL, DEWATERING, AND DISPOSAL OF REMOVED MATERIAL ASSOCIATED WITH THESE ITEMS.
2. PUMP STATION ELECTRICAL WORK PAY ITEM INCLUDES FURNISHING AND INSTALLING THE ELECTRICAL SYSTEM AND THE SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM FOR A COMPLETE INSTALLATION AS INDICATED ON THE DRAWINGS AND OUTLINED IN THE SEPCIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS FOR LIFT STATION ELECTRICAL. THE ELECTRICAL SYSTEM INCLUDES ASSEMBLING AND MOUNTING THE CONTROL PANEL, THE PUMP CONTROLLER, AUTOMATIC TRANSFER SWITCH, ALL CONNECTIONS AND CONTROLS FOR CONNECTION TO A PORTABLE GENERATOR, FEEDS TO THE PUMPS, GFI OUTLETS, CONDUITS, CABLES, CONNECTIONS, GROUNDING, AUTOMATIC TRANSFER SWITCH, AND ALL ASSOCIATED ITEMS AND ELECTRICAL TESTING. SCADA SYSTEM INCLUDES FURNISHING AND INSTALLING THE FLOATS AND LEVEL TRANSDUCERS AND FEEDS TO THE FLOATS AND LEVEL TRANSDUCERS, RELATED APPURTENANCES, PROGRAMMING, ALL SCADA TESTING, EXCAVATION, BACKFILL, TRENCH BACKFILL, DEWATERING, AND DISPOSAL OF REMOVED MATERIAL. THE LUMP SUM PRICE SHALL ALSO INCLUDE ONE FULL DAY OF START-UP SERVICES.
3. THE SANITARY SEWER LIFT STATION ELECTRIC SERVICE INSTALLATION AND ELECTRIC SERVICE UTILITY CONNECTION WILL BE PAID FOR SEPARATELY.
4. THE CONCRETE SLAB WITH AGGREGATE BASE COURSE, CHAIN LINK FENCE, AND GATE WILL BE PAID FOR SEPARATELY.
5. THE LIGHTING CONTROLLER, SPECIAL WITH CONCRETE FOUNDATION, LIGHTING ELECTRIC SERVICE INSTALLATION AND LIGHTING ELECTRIC SERVICE UTILITY CONNECTION WILL BE PAID FOR SEPARATELY.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS TO COMPLY WITH REQUIRED ELECTRICAL CLEARANCES PER THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, AND COM ED REQUIREMENTS.

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DESIGNED - TVW	REVISED - JPS 10/17/12		
DRAWN - JPS	REVISED - JPS 11/30/12		
CHECKED - JRL	REVISED - JPS 01/28/13		
DATE - 8/23/2012	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SANITARY SEWER LIFT STATION – SITE PLAN AND DETAILS

SCALE: 1"=5' | SHEET NO. 1 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	26
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

Plotted: 7/31/2014 11:18:12 PM By: JSchmidt

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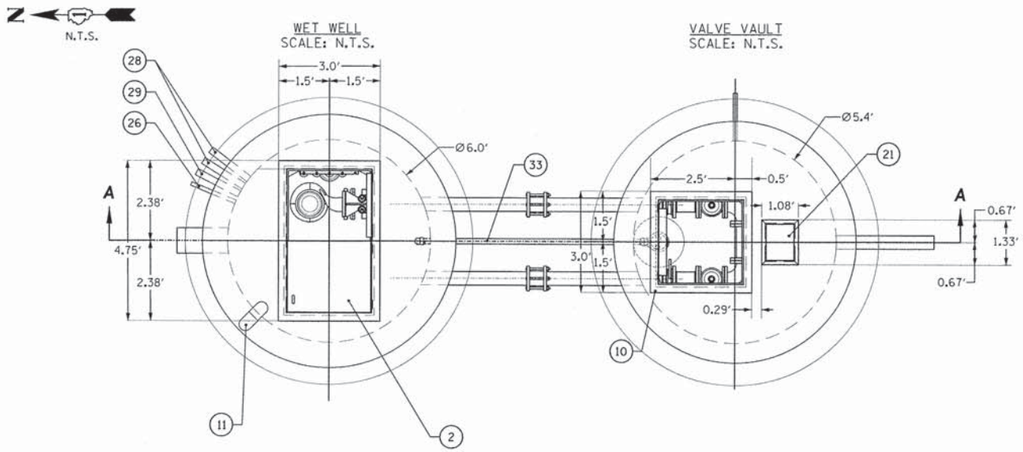
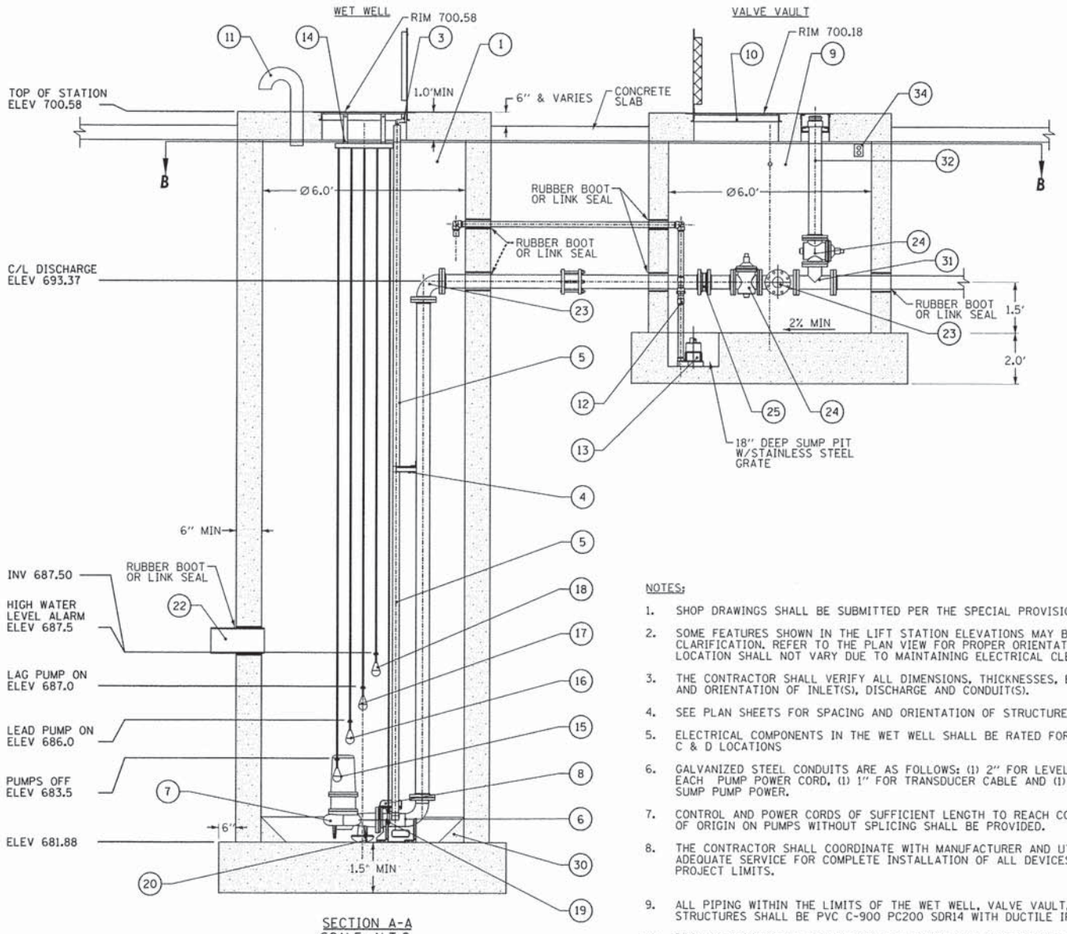


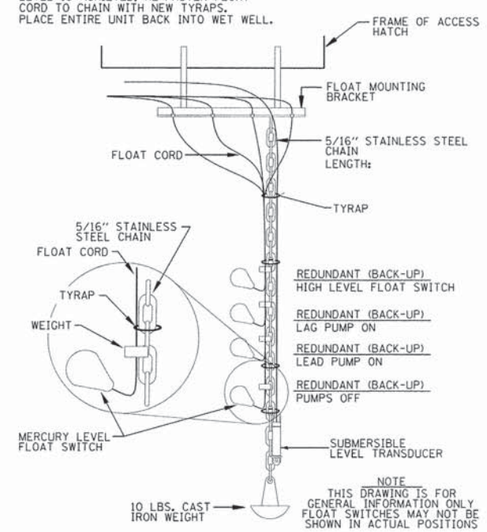


SECTION A-A
SCALE: N.T.S.

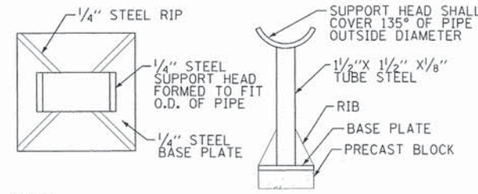
NOTES:

1. SHOP DRAWINGS SHALL BE SUBMITTED PER THE SPECIAL PROVISIONS.
2. SOME FEATURES SHOWN IN THE LIFT STATION ELEVATIONS MAY BE ROTATED FOR CLARIFICATION. REFER TO THE PLAN VIEW FOR PROPER ORIENTATION. HOWEVER, THE VENT LOCATION SHALL NOT VARY DUE TO MAINTAINING ELECTRICAL CLEARANCES.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, THICKNESSES, ELEVATIONS, PIPING LAYOUT, AND ORIENTATION OF INLET(S), DISCHARGE AND CONDUIT(S).
4. SEE PLAN SHEETS FOR SPACING AND ORIENTATION OF STRUCTURES.
5. ELECTRICAL COMPONENTS IN THE WET WELL SHALL BE RATED FOR CLASS I, DIV. 1, GROUP C & D LOCATIONS
6. GALVANIZED STEEL CONDUITS ARE AS FOLLOWS: (1) 2" FOR LEVEL CONTROLS, (1) 2" FOR EACH PUMP POWER CORD, (1) 1" FOR TRANSDUCER CABLE AND (1) 1" FOR VALVE VAULT SUMP PUMP POWER.
7. CONTROL AND POWER CORDS OF SUFFICIENT LENGTH TO REACH CONTROL PANEL FROM POINT OF ORIGIN ON PUMPS WITHOUT SPLICING SHALL BE PROVIDED.
8. THE CONTRACTOR SHALL COORDINATE WITH MANUFACTURER AND UTILITY COMPANY TO PROVIDE ADEQUATE SERVICE FOR COMPLETE INSTALLATION OF ALL DEVICES AND STRUCTURES WITH THE PROJECT LIMITS.
9. ALL PIPING WITHIN THE LIMITS OF THE WET WELL, VALVE VAULT, AND BETWEEN THESE TWO STRUCTURES SHALL BE PVC C-900 PC200 SDR14 WITH DUCTILE IRON RESTRAINED FITTINGS.
10. PROVIDE PROTECTIVE COATING ON THE INSIDE AND OUTSIDE OF THE WET WELL, PER SPECIAL PROVISIONS. IN ADDITIONA, A HIGH PERFORMANCE COATING SHALL BE APPLIED TO PIPING, PUMPS, VALVES, AND GALVANIZED STEEL WITHIN THE WET WELL AND VALVE VAULT. PER THE SPECIAL PROVISIONS.

WHEN CHANGING FLOAT LEVELS, PULL CHAIN, ANCHOR, AND FLOATS OUT OF WET WELL. CUT NECESSARY TYRAPS AND READJUST THE LEVEL OF THE FLOAT. WHEN PROPER LEVEL IS ACHIEVED, RE-FASTEN FLOAT CORD TO CHAIN WITH NEW TYRAPS. PLACE ENTIRE UNIT BACK INTO WET WELL.



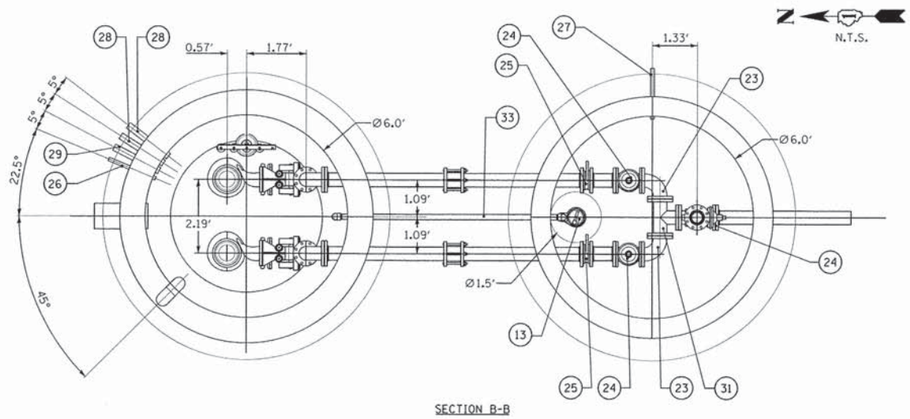
FLOAT MOUNTING DETAIL
SCALE: N.T.S.



NOTES:
1. PARTS SHALL BE WELDED TOGETHER, CLEANED OF ALL GREASE AND DIRT, AND PAINTED TO PREVENT CORROSION.
2. ALTERNATE PIPE SUPPORTS MAY BE USED AS APPROVED BY ENGINEER.
3. CONTRACTOR SHALL PROVIDE PIPE SUPPORTS AS REQUIRED.

PIPE SUPPORT DETAIL
SCALE: N.T.S.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CONCRETE WET WELL	6'-0" DIA. x 18.70' DEEP	1
2	30x51 DUPLEX ACCESS HATCH	DUPLEX ALUMINUM ACCESS HATCH WITH BITUMINOUS COATINGS	1
3	UPPER GUIDE RAIL SUPPORTS	FOR 2" RAIL SYSTEM, STAINLESS STEEL	2
4	INTERMEDIATE GUIDE RAIL SUPPORT	1.5", 2" & 3" GUIDE RAILS - STAINLESS STEEL	2
5	2" GUIDE RAIL	SCHED. 40 STAINLESS STEEL PIPE	8
6	4" ELBOW	STAINLESS STEEL	2
7	SUBMERSIBLE NON-CLOG PUMP	GRINDER PUMP WITH RECESSED IMPELLER AND OIL FILLED MOTOR WITH 50' OF CONTROL AND POWER CORD	2
8	4" SEALING FLANGE		2
9	VALVE VAULT	6'-0" DIA. x 8.31' DEEP	1
10	30x30 ACCESS HATCH	ALUMINUM ACCESS HATCH WITH BITUMINOUS COATINGS	1
11	4" VENT PIPING WITH SCREEN	STAINLESS STEEL	1
12	1.50" CHECK VALVE	ASAHI/AMERICA, HAYWARD, NIBCO OR APPROVED EQUAL	1
13	SUMP PUMP	1/3 HORSEPOWER	1
14	FLOAT MOUNTING BRACKET	STAINLESS STEEL, TO BE SHIPPED LOOSE - CONTRACTOR TO INSTALL IN FIELD	1
15	FLOAT: OFF LEVEL	STAINLESS STEEL SUBMERSIBLE LEVEL SWITCH	1
16	FLOAT: ONE PUMP ON	STAINLESS STEEL SUBMERSIBLE LEVEL SWITCH	1
17	FLOAT: TWO PUMPS ON	STAINLESS STEEL SUBMERSIBLE LEVEL SWITCH	1
18	FLOAT: ALARM LEVEL	STAINLESS STEEL SUBMERSIBLE LEVEL SWITCH	1
19	SUBMERSIBLE LEVEL TRANSDUCER		1
20	ANCHOR	10 LBS CAST IRON, WITH STAINLESS STEEL CHAIN FOR LEVEL CONTROL MOUNTING	1
21	4" SIMPLEX METRO CON	SIMPLEX 4" MALE QUICK COUPLER	1
22	INFLUENT PIPE	10" PVC SDR 26, ASTM D-2241	1
23	4" S.R. ELBOW	D.I. FITTING MJ, RESTRAINED JOINT	4
24	4" PLUG VALVE	DEZURIK, VALMATIC, CLOW OR APPROVED EQUAL	3
25	4" FULL BODIED CHECK VALVE	CAST IRON - VALMATIC	2
26	1" CONDUIT FOR TRANSDUCER CABLE	GALVANIZED STEEL	1
27	1" CONDUIT FOR VALVE VAULT SUMP PUMP POWER	GALVANIZED STEEL	1
28	2" CONDUIT FOR PUMP POWER	GALVANIZED STEEL	2
29	2" CONDUIT FOR CONTROL CABLES	GALVANIZED STEEL	1
30	CONCRETE FILLET	1:1 SLPE, POURED IN PLACE	1
31	4" D.I.P. TEE	D.I. FITTING MJ, RESTRAINED JOINT	2
32	4" BYPASS RISER	PVC C900, PC 200, DR14	1
33	VALVE VAULT SUMP PUMP OUTLET	1.5" PVC SCHEDULE 80	1
34	120V GFI RECEPTACLE		1



WET WELL TYPICAL ASSEMBLY
SCALE: N.T.S.

SECTION B-B

VALVE VAULT TYPICAL ASSEMBLY
SCALE: N.T.S.

Plotted: #DATE# By: #USER# #TIME# #FILL#

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CITY OF WARRENVILLE
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DESIGNED - TVW	REVISED - JPS 10/17/12
DRAWN - JPS	REVISED - JPS 11/30/12
CHECKED - JRL	REVISED - JPS 01/28/13
DATE - 8/23/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SANITARY SEWER LIFT STATION – WET WELL AND VALVE VAULT

SCALE: N.T.S. | SHEET NO. 2 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	27
	C-91-515-10	CONTRACT NO. 63761		
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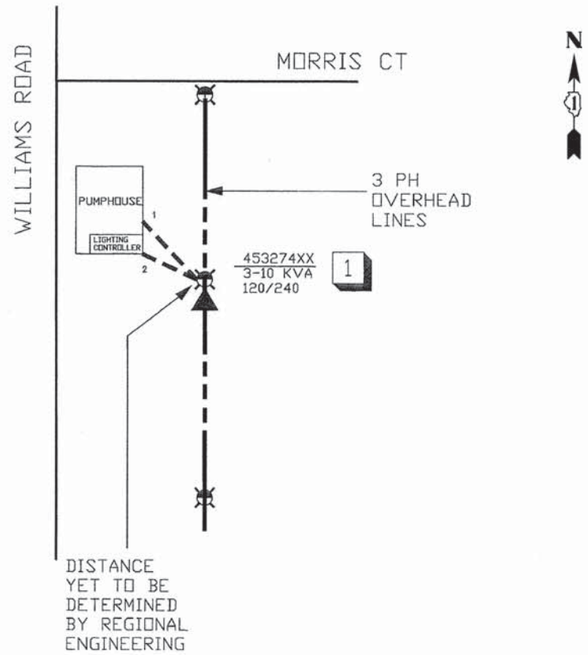
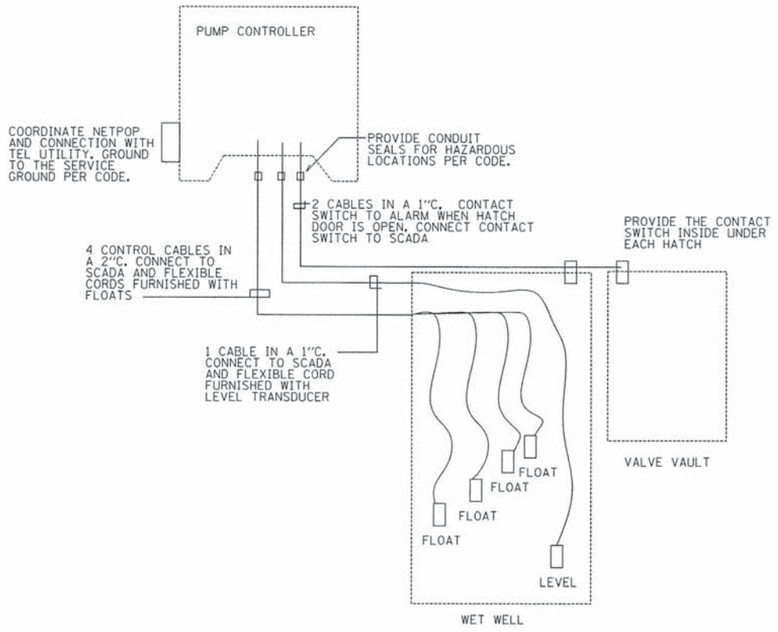


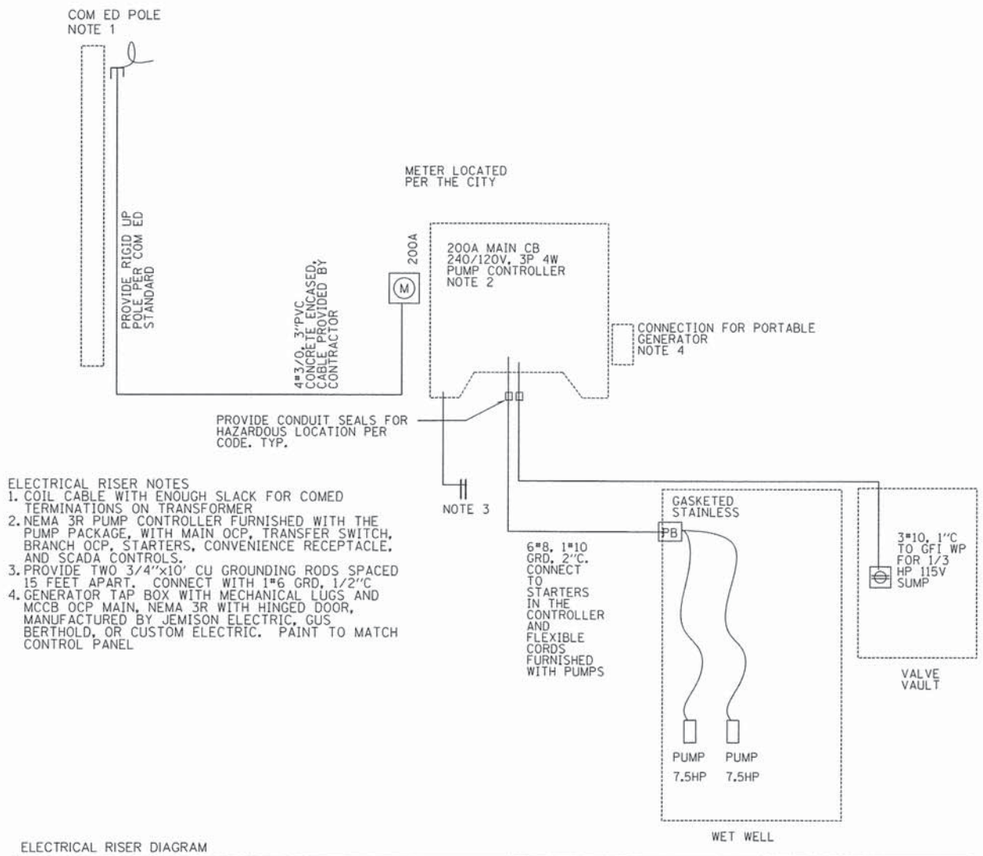
SERVICE ENTRANCE LOCATION SKETCH BY COM ED

SCALE: N.T.S.



SCADA RISER DIAGRAM

SCALE: N.T.S.



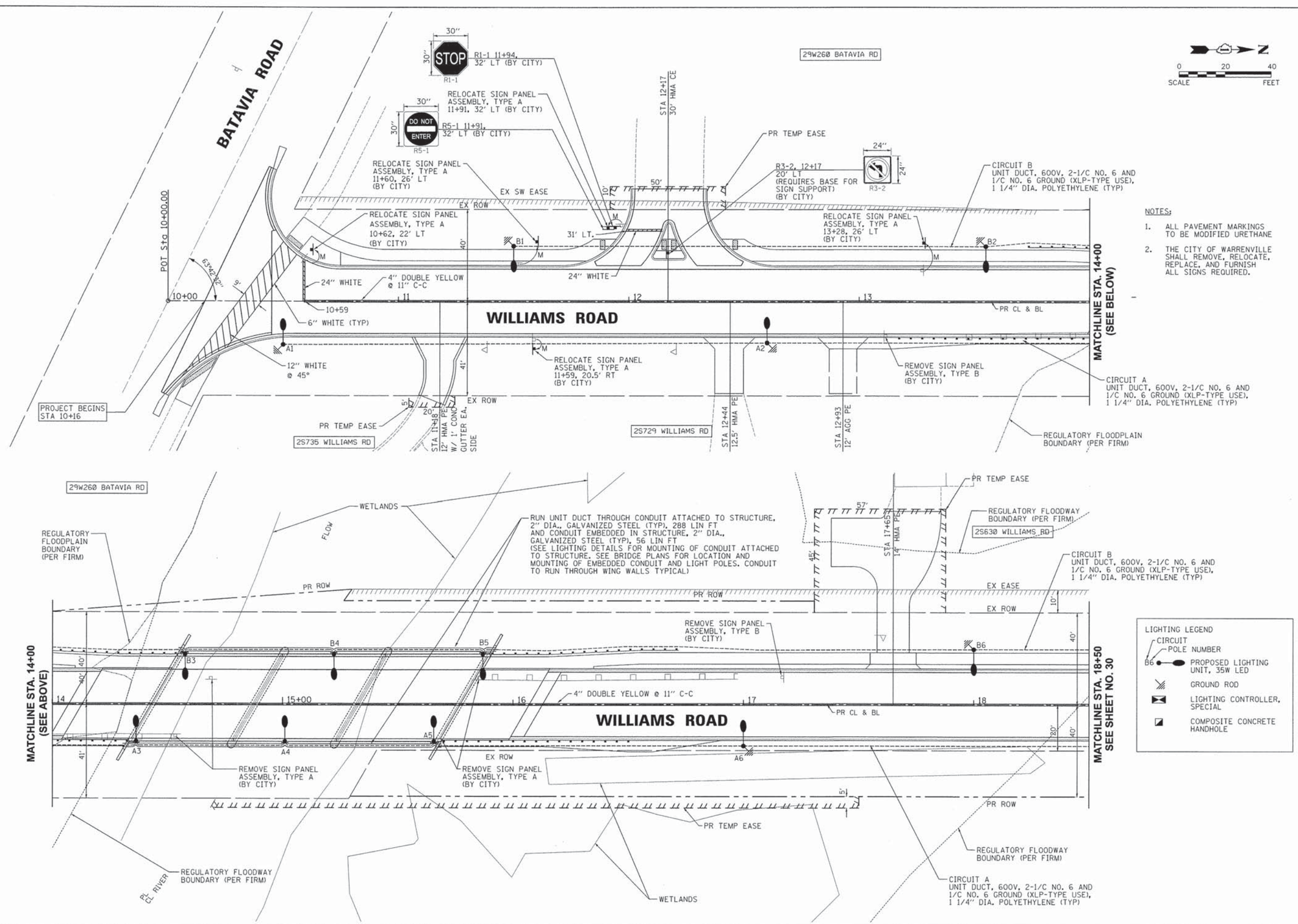
ELECTRICAL RISER NOTES

1. COIL CABLE WITH ENOUGH SLACK FOR COMED TERMINATIONS ON TRANSFORMER
2. NEMA 3R PUMP CONTROLLER FURNISHED WITH THE PUMP PACKAGE, WITH MAIN OCP, TRANSFER SWITCH, BRANCH OCP, STARTERS, CONVENIENCE RECEPTACLE, AND SCADA CONTROLS.
3. PROVIDE TWO 3/4"x10' CU GROUNDING RODS SPACED 15 FEET APART. CONNECT WITH 1#6 GRD, 1/2"C
4. GENERATOR TAP BOX WITH MECHANICAL LUGS AND MCCB OCP MAIN, NEMA 3R WITH HINGED DOOR, MANUFACTURED BY JEMISON ELECTRIC, GUS BERTHOLD, OR CUSTOM ELECTRIC. PAINT TO MATCH CONTROL PANEL

ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	CITY OF WARRENVILLE 3S258 MANNING AVENUE WARRENVILLE, IL 60555	DESIGNED - TVW	REVISED - JPS 10/17/12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT SANITARY SEWER LIFT STATION – ELECTRICAL DIAGRAM			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JPS	REVISED - JPS 11/30/12					N/A	09-00030-00-BR	DUPAGE	80	28
		CHECKED - JRL	REVISED - JPS 01/28/13						C-91-515-10	CONTRACT NO. 63761		
		DATE - 8/23/2012	REVISED -		SCALE: N.T.S.	SHEET NO. 3 OF 3 SHEETS	STA. N/A TO STA. N/A			ILLINOIS FED. AID PROJECT	BRM-9003(638)	



Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	CITY OF WARRENVILLE 3S258 MANNING AVENUE WARRENVILLE, IL 60555	DESIGNED - TVW	REVISED - JPS 10/17/12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT PAVEMENT MARKING, SIGNING AND LIGHTING PLAN
		DRAWN - JPS	REVISED - JPS 11/30/12		
		CHECKED - JRL	REVISED - TVW 1/15/13		SCALE: 1"=20' SHEET NO. 1 OF 6 SHEETS STA. 10+00 TO STA. 18+50
		DATE - 8/23/2012	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	29
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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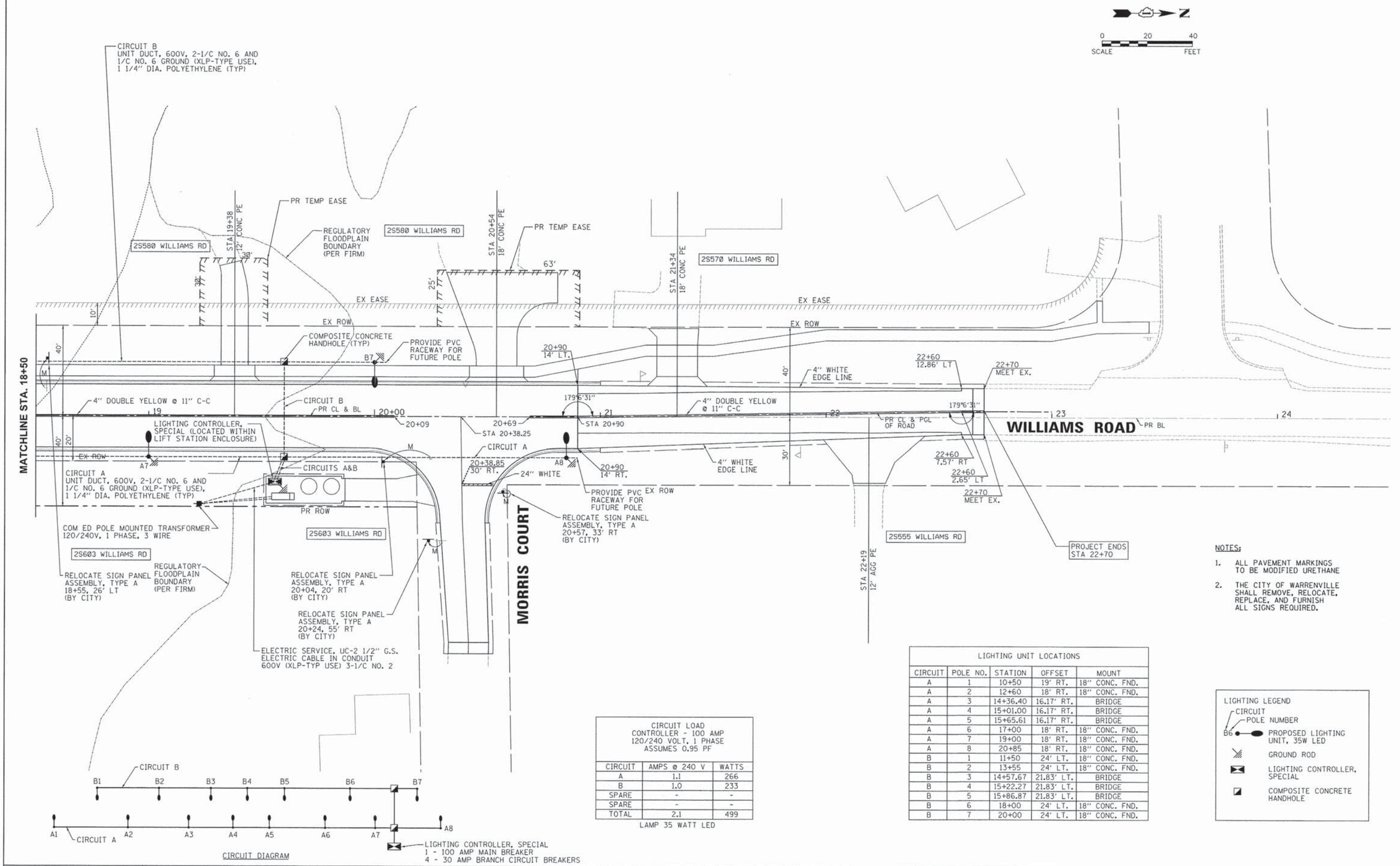

CIRCUIT DIAGRAM

NOTES:

1. ALL PAVEMENT MARKINGS TO BE MODIFIED URETHANE
2. THE CITY OF WARRENVILLE SHALL REMOVE, RELOCATE, REPLACE, AND FURNISH ALL SIGNS REQUIRED.

CIRCUIT LOAD
CONTROLLER - 100 AMP
120/240 VOLT, 1 PHASE
ASSUMES 0.95 PF

CIRCUIT	AMPS @ 240 V	WATTS
A	1.1	266
B	1.0	233
SPARE	-	-
SPARE	-	-
TOTAL	2.1	499

LAMP 35 WATT LED

LIGHTING UNIT LOCATIONS

CIRCUIT	POLE NO.	STATION	OFFSET	MOUNT
A	1	10+50	19' RT.	18" CONC. FND.
A	2	12+60	18' RT.	18" CONC. FND.
A	3	14+36.40	16.17' RT.	BRIDGE
A	4	15+01.00	16.17' RT.	BRIDGE
A	5	15+65.61	16.17' RT.	BRIDGE
A	6	17+00	18' RT.	18" CONC. FND.
A	7	19+00	18' RT.	18" CONC. FND.
A	8	20+85	18' RT.	18" CONC. FND.
B	1	11+50	24' LT.	18" CONC. FND.
B	2	13+55	24' LT.	18" CONC. FND.
B	3	14+57.67	21.83' LT.	BRIDGE
B	4	15+22.27	21.83' LT.	BRIDGE
B	5	15+86.87	21.83' LT.	BRIDGE
B	6	18+00	24' LT.	18" CONC. FND.
B	7	20+00	24' LT.	18" CONC. FND.

LIGHTING LEGEND
- CIRCUIT
- POLE NUMBER
- B6 — PROPOSED LIGHTING UNIT, 35W LED
- GROUND ROD
- LIGHTING CONTROLLER, SPECIAL
- COMPOSITE CONCRETE HANDHOLE

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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED	TVW	REVISED	JPS 10/17/12
DRAWN	JPS	REVISED	JPS 11/30/12
CHECKED	JRL	REVISED	JPS 01/28/13
DATE	8/23/2012	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
PAVEMENT MARKING, SIGNING AND LIGHTING PLAN

SCALE: 1"=20' | SHEET NO. 2 OF 6 SHEETS | STA. 18+50 TO STA. 23+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	30
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:

   A. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2012.

   B. THE NATIONAL ELECTRICAL CODE.

   C. LOCAL CODES AND ORDINANCES.

2. THE CONTRACTOR SHALL SUBMIT SPECIFICATIONS, SHOP DRAWINGS, AND CATALOG CUTS FOR ALL LIGHTING ITEMS TO THE ENGINEER FOR REVIEW BEFORE ORDERING ANY MATERIALS.

3. ONLY SUBMERSIBLE WATERPROOF TYPE SPLICES OF THE UNIT DUCT AND CIRCUIT CABLES WILL BE ALLOWED IN BELOW GROUND HANDHOLES.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TOP OF CONCRETE FOUNDATION HEIGHTS WITH FINISHED GRADE ELEVATIONS.

5. ALL ELECTRIC CABLE SHALL BE FULLY PIGMENTED COLOR CODED AND TAGGED AS SHOWN ON THE DRAWINGS.

6. ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BE UL LISTED AND LABELED.

7. POLE FUSES AND ASSOCIATED HARDWARE/MATERIAL AND INSTALLATION SHALL BE INCLUDED IN THE LIGHTING UNIT COMPLETE, SPECIAL PAY ITEM.

8. THE INSTALLATION OF WARNING TAPE SHALL BE REVIEWED BY THE ENGINEER PRIOR TO BACKFILLING, AS APPLICABLE.

9. THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING IN THE PRESENCE OF THE ENGINEER. THE ELECTRICAL TESTING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHTING POLES AND CONTROLLER. THE EXACT LOCATION OF ALL SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO START OF WORK.

11. GROUND RODS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE ITEM IT IS GROUNDING.

LIGHTING SCHEDULE OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL QUANTITIY
***	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L.SUM	1
**	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2½" DIA.	FOOT	35
*	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	288
	81200120	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	56
	81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	2
	81603037	UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1¼" DIA. POLYETHYLENE	FOOT	2080
	81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	35
	X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	15
	X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1
	X8360110	LIGHT POLE FOUNDATION, SPECIAL	FOOT	41

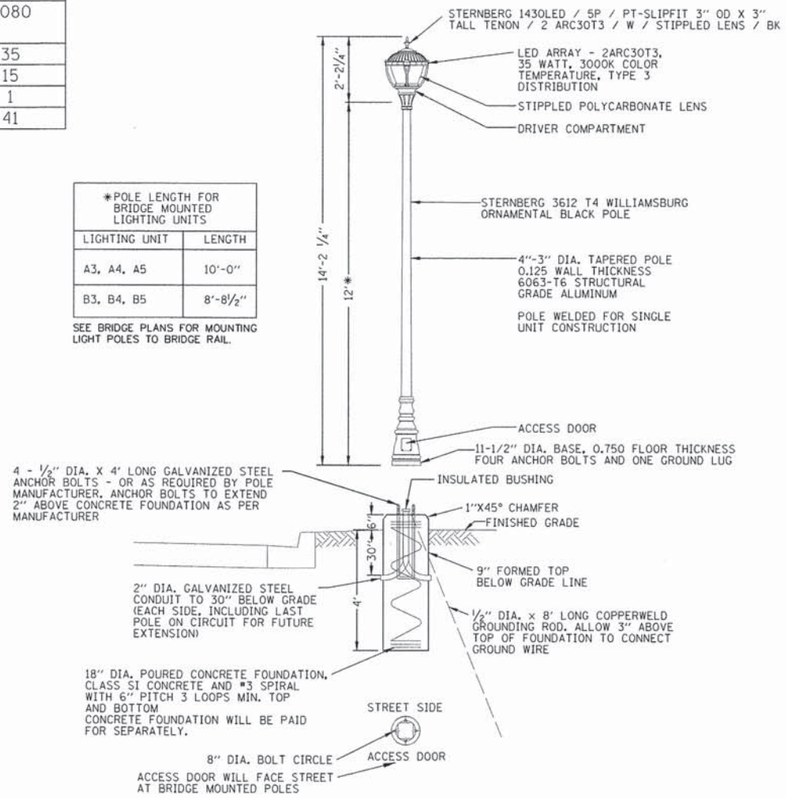
* SEE BRIDGE PLANS FOR INSTALLATION OF CONDUIT.

** SEE CONDUIT ATTACHED TO STRUCTURE LIGHTING DETAIL

*** ITEM INCLUDES BOTH LIGHTING AND SANITARY SEWER LIFT STATION ELECTRICAL UTILITY SERVICE CONNECTION.

*POLE LENGTH FOR BRIDGE MOUNTED LIGHTING UNITS	
LIGHTING UNIT	LENGTH
A3, A4, A5	10'-0"
B3, B4, B5	8'-8½"

SEE BRIDGE PLANS FOR MOUNTING LIGHT POLES TO BRIDGE RAIL.



LIGHTING UNIT COMPLETE, SPECIAL DETAIL

NOTES:

VERIFY ALL POLE RELATED DIMENSIONS AND INFORMATION WITH POLE MANUFACTURER PRIOR TO FABRICATION OF FOUNDATION.

MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3500 PSI AT THE END OF 28 DAYS.

EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER 18" IN DIAMETER.

THE ANCHOR BOLTS SHALL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.

THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.

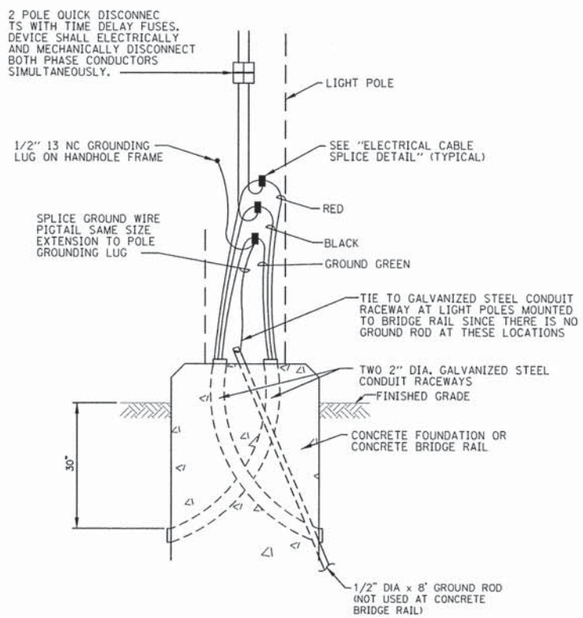
THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A153.

RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.

CONCRETE SHALL BE CLASS "SI". THE CONCRETE FOUNDATION MUST BE CURED FOR 10 DAYS BEFORE THE LIGHT STANDARD IS ERECTED.

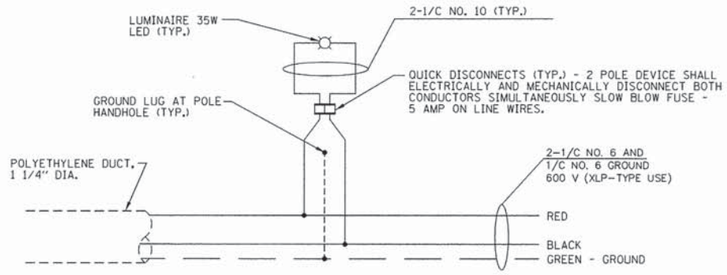
THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.

UNIT DUCT SHALL EXTEND 12" ABOVE CONCRETE FOUNDATION.



LIGHT POLE WIRING DETAIL

N.T.S.



CIRCUIT DETAIL

Engineering Enterprises, Inc.
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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED	TVW	REVISED	-
DRAWN	JPS	REVISED	-
CHECKED	JRL	REVISED	-
DATE	8/23/2012	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
LIGHTING GENERAL NOTES, QUANTITIES AND DETAILS

SCALE: N.T.S. | SHEET NO. 3 OF 6 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	31
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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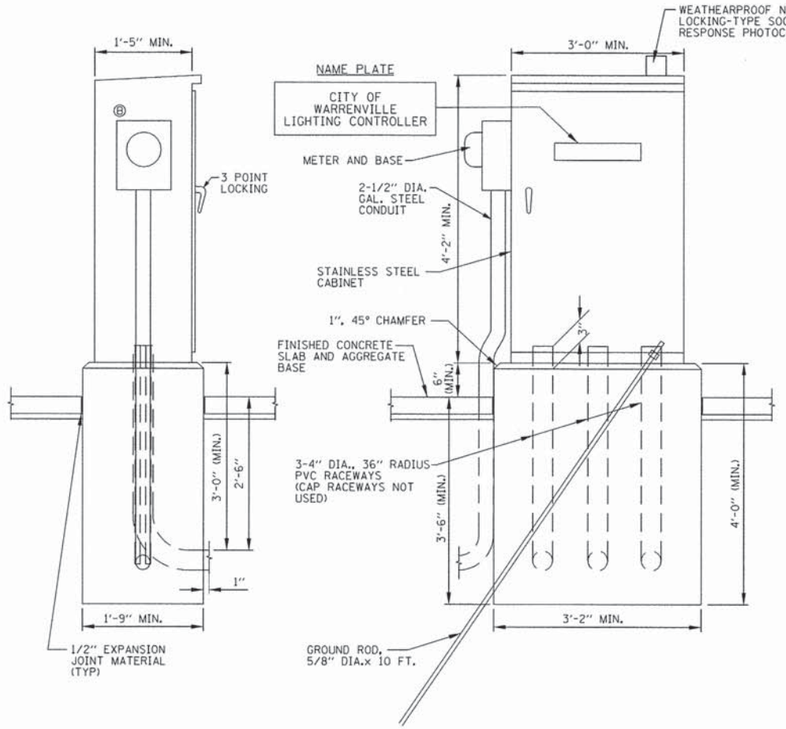
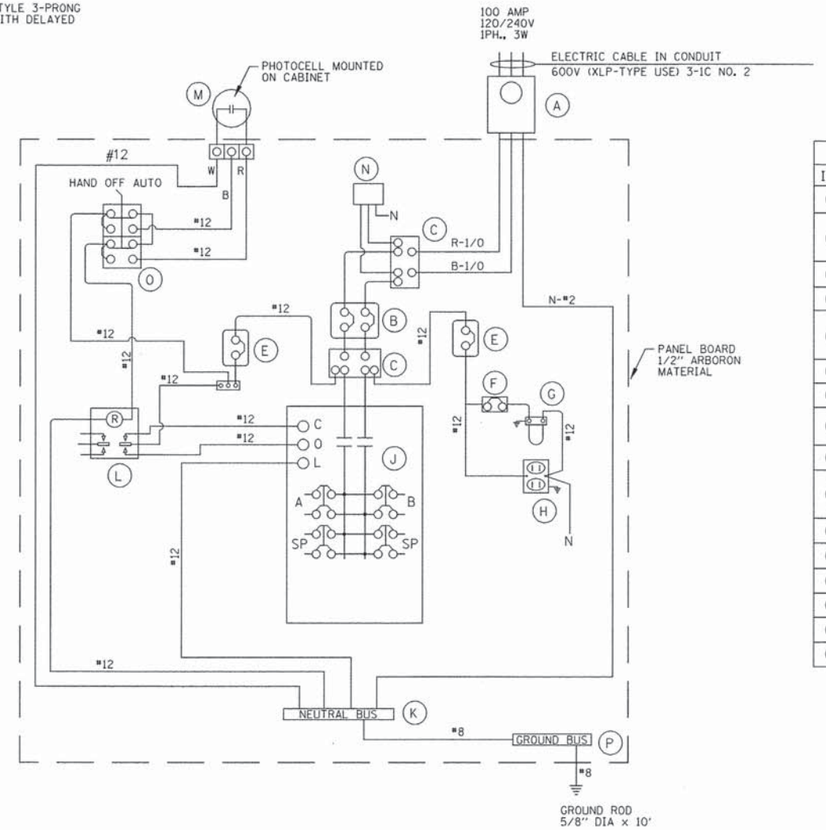


CONTROL CABINET

N.T.S.



100 AMPERE – 120/240 VOLT WIRING DIAGRAM

DEVICE SCHEDULE		
ITEM	QUANT.	DESCRIPTION
(A)	1	METER FITTING
(B)	1	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC BOLT-ON TYPE, 2- POLE- 100 AMPERE, 225 A. FRAME, 240 Vac, NON INTERCHANGEABLE TRIP, INTERRUPTING CAPACITY OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPERES AT 240 VOLT
(C)	2	SPLICE BLOCK
(D)		RESERVED
(E)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1- POLE- 240 V., BOLT-ON TYPE, 15 A. WITH AN INTERRUPTING RATING OF NOT LESS THAN 18,000 RMS SYMMETRICAL AMPERES AT 120 V.
(F)	1	20 A. SPST MICRO SWITCH MOUNTED ON A DOOR.
(G)	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX
(H)	1	GFI RECEPTACLE, 120V, 20A, PREMIUM SPEC. GRADE, NEMA REFERENCE 5-20R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER
(I)		RESERVED
(J)	1	100 A. CONTACTOR PANEL BOARD INTERIOR, 16 CKT, 1 PH, 3 WIRE, 4-2P/30 AMP BOLT-ON BRANCH CIRCUIT BREAKERS, EACH RATED 480 VOLT WITH INTERRUPTING CAPACITY OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPERES AT 240 VOLT
(K)	1	NEUTRAL, COPPER BUSS BAR, PAINTED IN WHITE
(L)	1	POWER RELAY, 120 VOLT COIL
(M)	1	PHOTO ELECTRIC CELL, MOUNTED ON CABINET
(N)	1	SURGE ARRESTOR
(O)	1	SELECTOR SWITCH, 3 POSITION, ON-OFF-AUTO
(P)	1	GROUND COPPER BUSS BAR, PAINTED IN GREEN

NOTES:

THE CABINET SHALL BE FABRICATED FROM STAINLESS STEEL. THE CABINET DOOR SHALL BE NEMA TYPE 3 CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.

CONTROL WIRE SHALL BE #12 AWG, 600V, TYPE "SIS" STRANDED COPPER GRAY SWITCH BOARD WIRE. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED.

ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURE.

CONTRACTOR TO COORDINATE FINAL FAULT RATINGS WITH COM ED.

ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUSS CONNECTION AND GREEN FOR GROUND BUSS CONNECTORS.

PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES WITHIN THE CONTROL CABINET. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. THE HOLDER AND POUCH SHALL BE MOUNTED SO THAT RAIN WATER OR CONDENSED WATER CANNOT ENTER THE POUCH WITH THE CABINET DOOR OPEN. FURNISH THE APPROVED COPY OF THE "CONTROL CABINET WIRING DIAGRAM".

ANCHOR BOLTS AS SPECIFIED BY THE MANUFACTURER.

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DESIGNED - TVW		REVISED -
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CHECKED - JRL		REVISED -
DATE - 8/23/2012		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
LIGHTING CONTROLLER, SPECIAL

SCALE: N.T.S. | SHEET NO. 4 OF 6 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	32
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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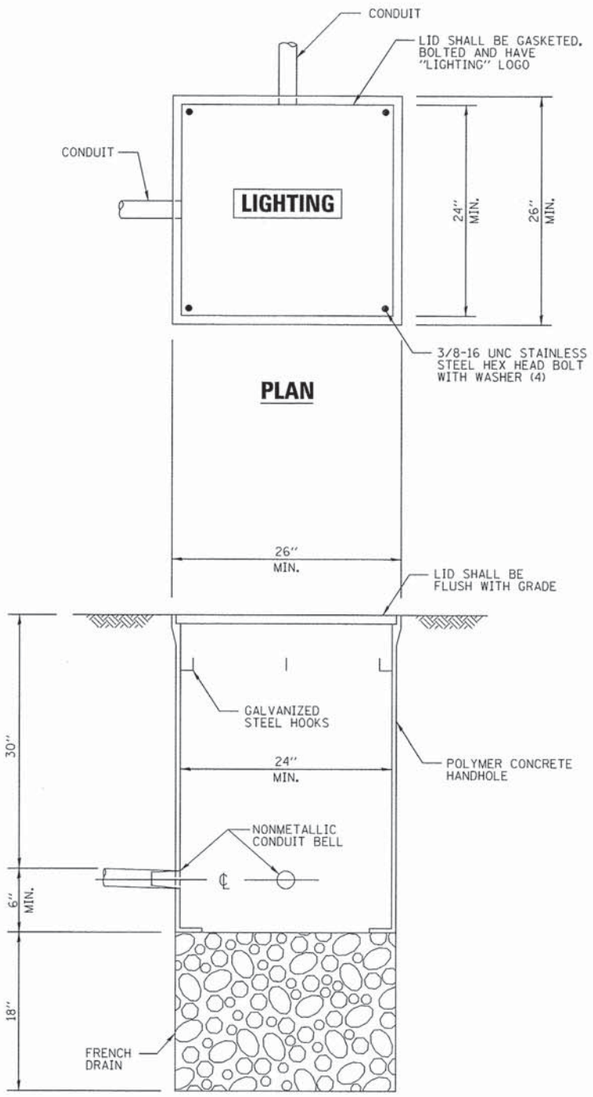
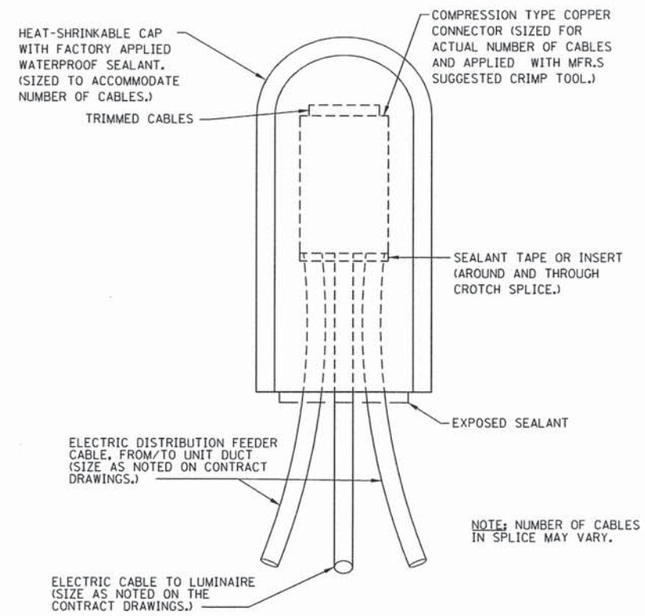


ELEVATION

NOTES;
1. ONLY SUBMERSIBLE WATERPROOF TYPE SPLICES ALLOWED IN HANDHOLES.
2. THE COLOR OF THE TOP FRAME AND COVER SHALL BE GREEN.
3. HANDHOLE SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS AND BE UL LISTED.

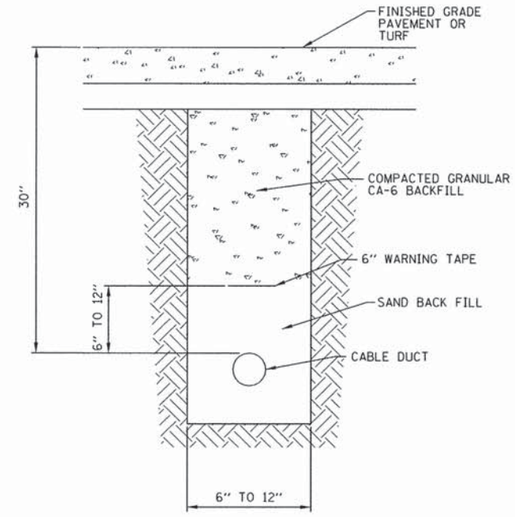
COMPOSITE CONCRETE HANDHOLE

N.T.S.



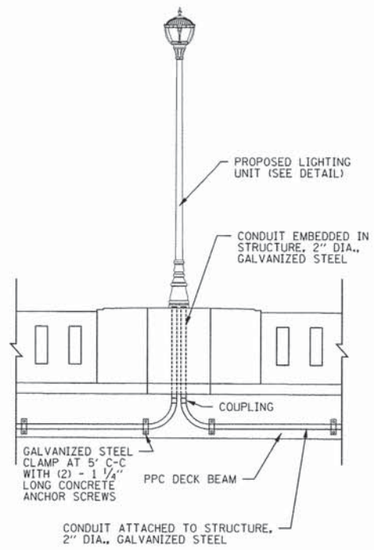
ELECTRICAL CABLE SPLICE DETAIL

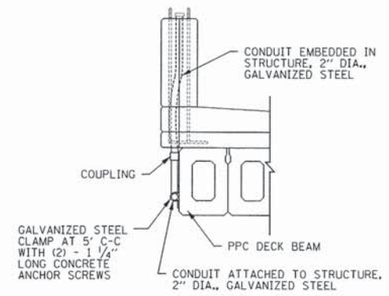
N.T.S.



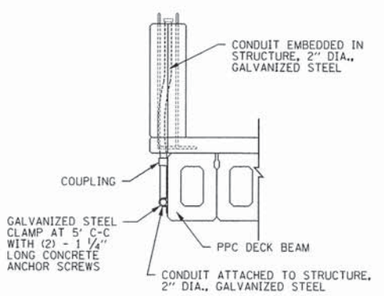
TRENCH & BACKFILL FOR LIGHTING IF TRENCH IS USED

N.T.S.





SECTION F-F
(SEE CONCRETE BRIDGE RAILING, SIDEWALK MOUNTED SHEETS IN BRIDGE PLANS FOR LOCATION OF SECTION F-F AND MORE DETAIL)



SECTION F-F
(SEE CONCRETE BRIDGE RAILING SHEETS IN BRIDGE PLANS FOR LOCATION OF SECTION F-F AND MORE DETAIL)

CONDUIT ATTACHED TO STRUCTURE

N.T.S.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
LIGHTING DETAILS

SCALE: N.T.S. | SHEET NO. 5 OF 6 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	33
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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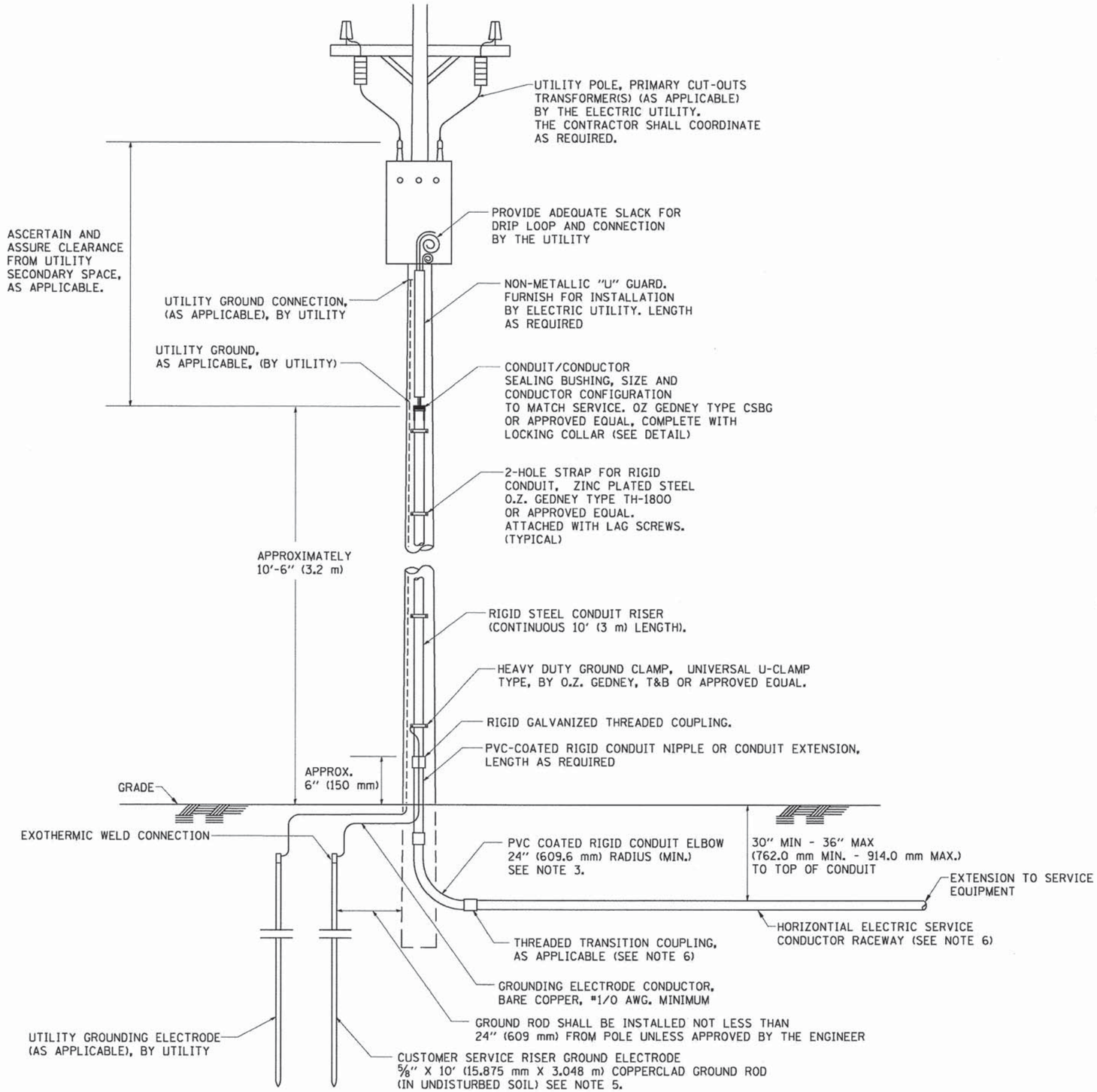
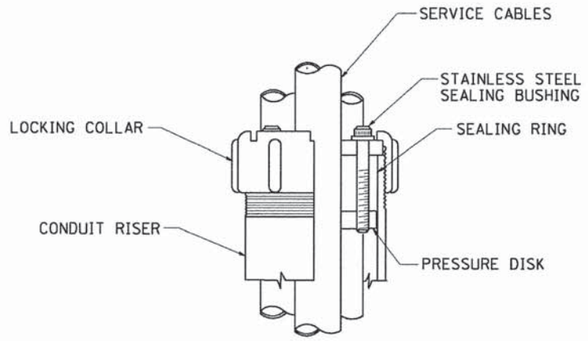


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED - TVW	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - JRL	REVISED -	
DATE - 8/23/2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
LIGHTING ELECTRIC SERVICE INSTALLATION

SCALE: N.T.S. | SHEET NO. 6 OF 6 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	34
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

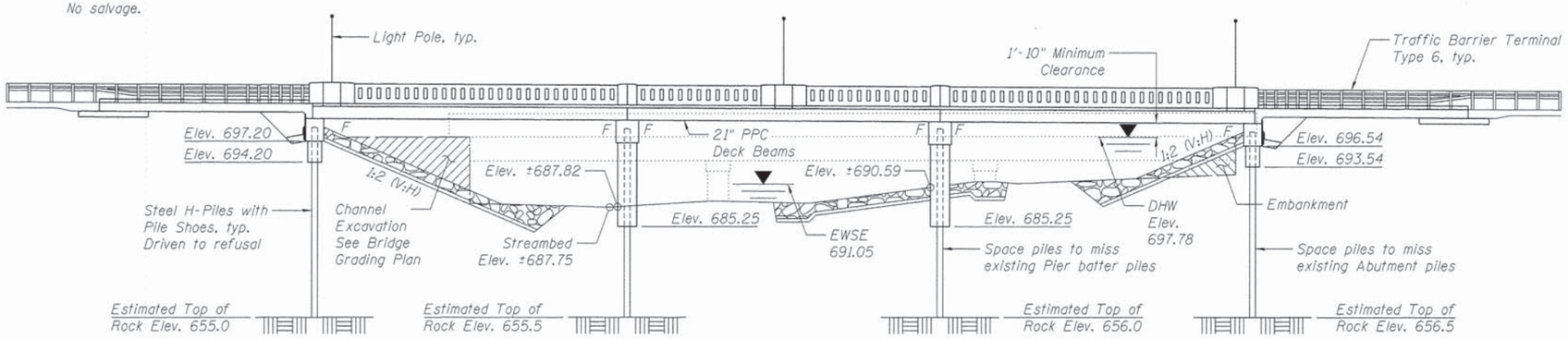
Plotted: 9/27/2012 8:02:45 AM By: JSchmidt

Path: H:\SDSI\Proj\WW0801-Micro\Dgn\Dgn Final Eng\WW0801-Lighting.dgn

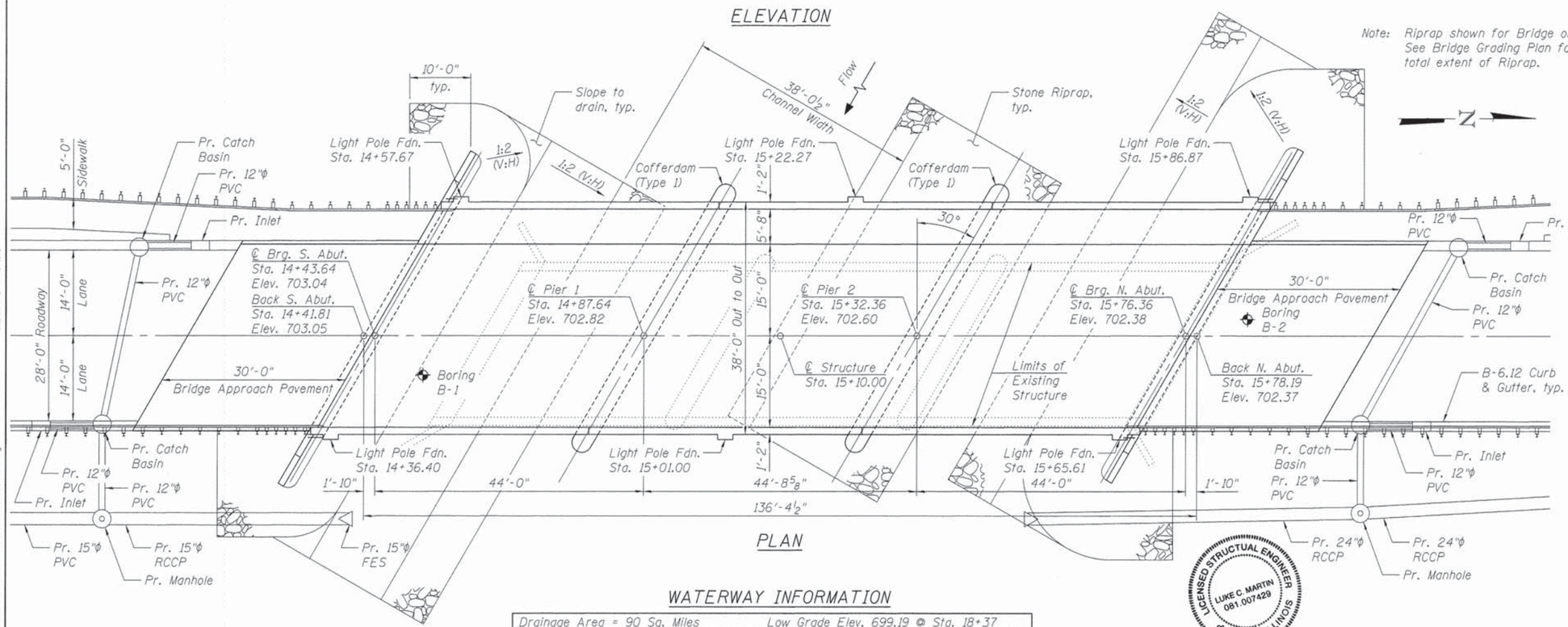
Bench Mark: BM #1 Disc on Southeast Wingwall, Elev= 697.67 N= 1880537.20 E= 1023235.55

Existing Structure: Structure No. 022-3024, Built in 1930. The existing superstructure consists of 3 spans of 4 cast-in-place T girders with a length of 114', a 30° left-forward skew, a face-to-face of parapets width of 24', a 14½" thick deck and Concrete Bridge Railing. The existing substructure consists of Gravity Abutments and Bent Piers on unknown foundations. The existing structure is to completely removed and replaced. Traffic will be detoured during construction.

Salvage: No salvage.



ELEVATION



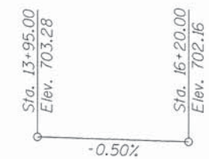
PLAN

Note: Riprap shown for Bridge only. See Bridge Grading Plan for total extent of Riprap.

LOCATION SKETCH

WEST BRANCH OF DUPAGE RIVER
BUILT 2015 BY
CITY OF WARRENVILLE
SEC. 09-00030-00-BR
STATION 15+10
STRUCTURE NO. 022-3126 LOADING HL-93

NAME PLATE
See Std. 515001



PROFILE GRADE
(Along ℄ Williams Rd.)

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
AASHTO LRFD Bridge Design Specifications, 5th Edition with 2010 Interim Revisions

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 5,000 psi (Wearing Surface)
fy = 50,000 psi
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (½"ϕ Low Lax Strands)
fpbt = 201,960 psi (½"ϕ Low Lax Strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.089 g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.161 g
Soil Site Class = D

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)			
S. Abut.	Pier 1	Pier 2	N. Abut.
697.2	685.3	685.3	696.5

WATERWAY INFORMATION

Drainage Area = 90 Sq. Miles Low Grade Elev. 699.19 @ Sta. 18+37

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	2,900	569.5	767.9	697.22	0.18	0.00	697.40	697.18
Design	30	3,717	682.31	839.2	697.80	0.35	0.00	698.15	697.78
Base	100	4,600	1,707.51	906.8	698.37	0.43	0.00	698.80	698.33
Overtopping	>500	-	-	-	-	-	-	695.5*	699.18
Max. Calc.	500	5,850	2,360.66	989.6	699.09	0.81	0.00	699.90	699.00

10 Year Velocity Through Existing Bridge = 8 ft/s
10 Year Velocity Through Proposed Bridge = 3 ft/s
* <1 Yr. Existing Freq.

LICENSED STRUCTUAL ENGINEER
LUKE C. MARTIN
081.007429
STATE OF ILLINOIS
EXP. 11-30-14

I certify that to the best of my knowledge, information and belief, this bridge/box culvert is designed using the loads shown on the plans and consistent with that degree of care and skill ordinarily exercised by members of the same profession. The design is reasonably-priced for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

GENERAL PLAN & ELEVATION
WILLIAMS RD. OVER WEST BRANCH OF THE DUPAGE RIVER
SECTION 09-00030-00-BR
DUPAGE COUNTY
STATION 15+10.00
STRUCTURE NO. 022-3126

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 022-3126
SHEET NO. 1 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	35
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 8/6/2014
FILE NAME = X:\0*113-2379-000\Williams_Road\CADD\S\Sheets\Williams 01 - General Plan Elevation.dgn
USER NAME = martinl

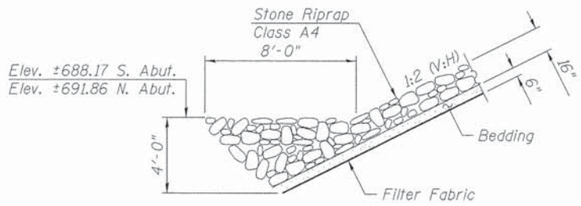
GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. If a portion of the drilled shaft web walls or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
5. See Roadway Plans for Stone Riprap, Class A4 and Filter Fabric quantities.
6. The Contractor shall exercise care during construction to locate existing Substructure elements to prevent damage or conflicts with the new Pier locations. If conflicts arise and modifications are required beyond the tolerances given, the Structural Engineer of record shall be notified for approval of revisions.
7. The Contractor's attention is directed to the posted load limits of the existing bridge. The Contractor's operations shall not exceed the load limit.
8. The Granular Backfill for Structures shall be placed in lifts not exceeding 6" in thickness and compacted in a manner approved by the Engineer.

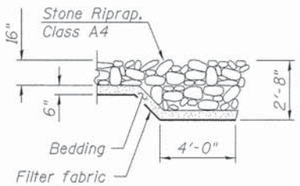
INDEX OF SHEETS

TOTAL BILL OF MATERIAL

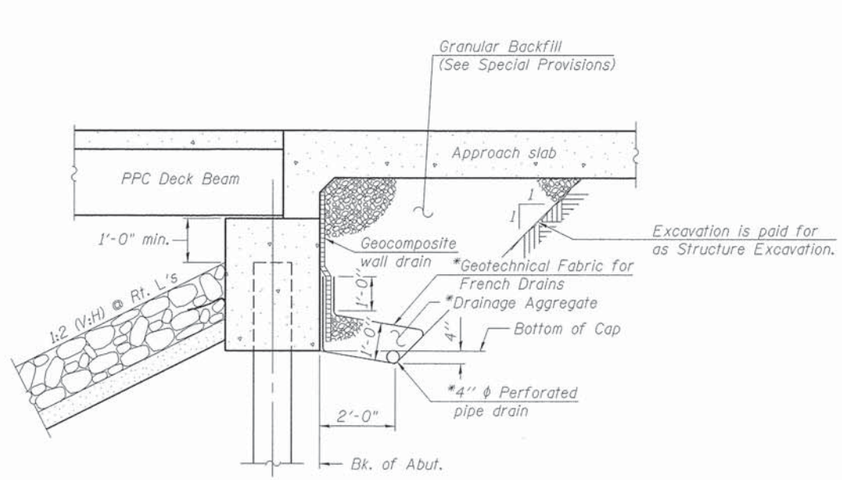
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	EACH		1	1
Structure Excavation	CU YD		58	58
Cofferdam Excavation	CU YD		183	183
Cofferdam (Type 1) (Location - 1)	EACH		1	1
Cofferdam (Type 1) (Location - 2)	EACH		1	1
Concrete Structures	CU YD		214.9	214.9
Concrete Superstructure	CU YD	123.5		123.5
Bridge Deck Grooving	SQ YD	647		647
Concrete Encasement	CU YD		4.2	4.2
Protective Coat	SQ YD	889		889
Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	5,088		5,088
Reinforcement Bars, Epoxy Coated	POUND	34,940	18,530	53,470
Furnishing Steel Piles HP10x42	FOOT		1,049	1,049
Driving Piles	FOOT		1,049	1,049
Test Pile Steel HP10x42	EACH		4	4
Pile Shoes	EACH		28	28
Name Plates	EACH	1		1
Geocomposite Wall Drain	SQ YD		65	65
Concrete Bridge Rail, Sidewalk Mounted	FOOT	136		136
Concrete Bridge Railing	FOOT	136		136
Concrete Wearing Surface, 5"	SQ YD	447		447
Granular Backfill for Structures	CU YD		93	93
Pipe Underdrains For Structures 4"	FOOT		142	142



STONE RIPRAP TOE DETAIL



STONE RIPRAP FLANK DETAIL



SECTION THRU ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures (See Special Provisions).

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

PLOT DATE = 8/6/2014
FILE NAME = X:\K-Y\13-2379-A00\Williams_Road\CADD\S\Sheets\Williams 02 - General Data.dgn
USER NAME = marturi

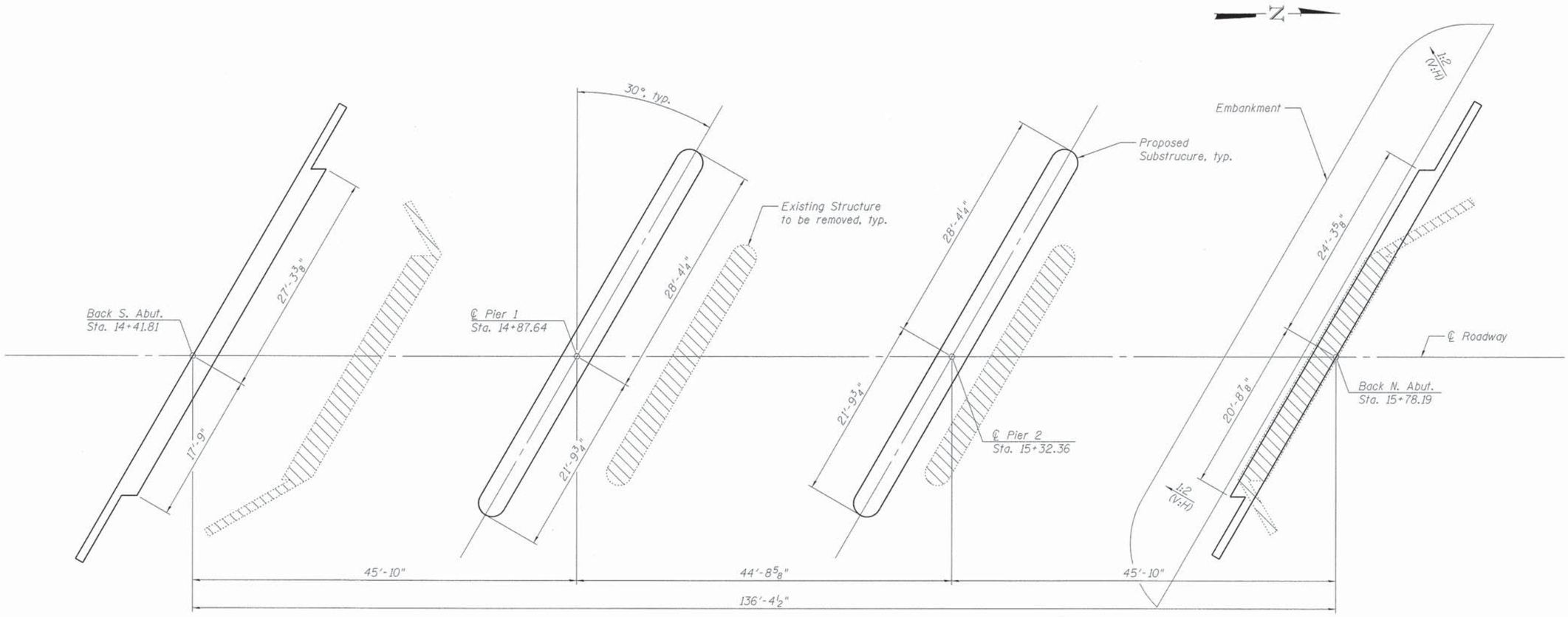
RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

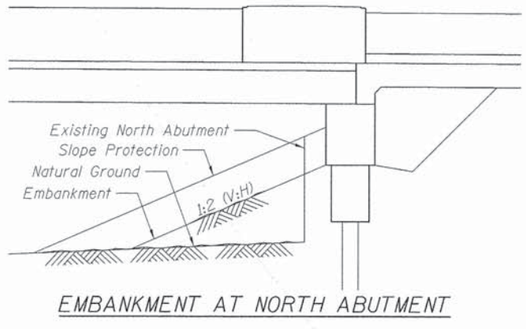
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 022-3126
SHEET NO. 2 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	36
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		



FOUNDATION LAYOUT



EMBANKMENT AT NORTH ABUTMENT

NOTES:

1. Existing bridge plans were unavailable at the time of design, therefore the existing substructure foundation below grade is unknown.
2. Upon removal of the existing North Abutment, any existing piles that will interfere with the proposed North Abutment shall be identified. The spacing and number of proposed North Abutment piles shall be adjusted to miss the existing piles within the limits shown on Sheet 20 of 24.
3. Upon removal of the existing North Pier, any existing batter piles that will interfere with the proposed Pier 2 shall be identified. The spacing and number of proposed Pier 2 piles shall be adjusted to miss the existing piles within the limits shown on Sheet 22 of 24.
4. Location of existing structure based upon field survey. Contractor to verify all dimensions prior to construction.

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOUNDATION LAYOUT
STRUCTURE NO. 022-3126
SHEET NO. 3 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	37
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 8/6/2014
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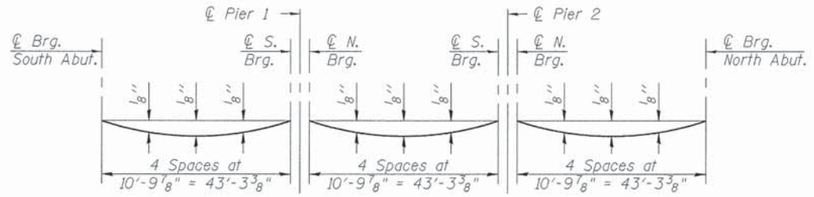
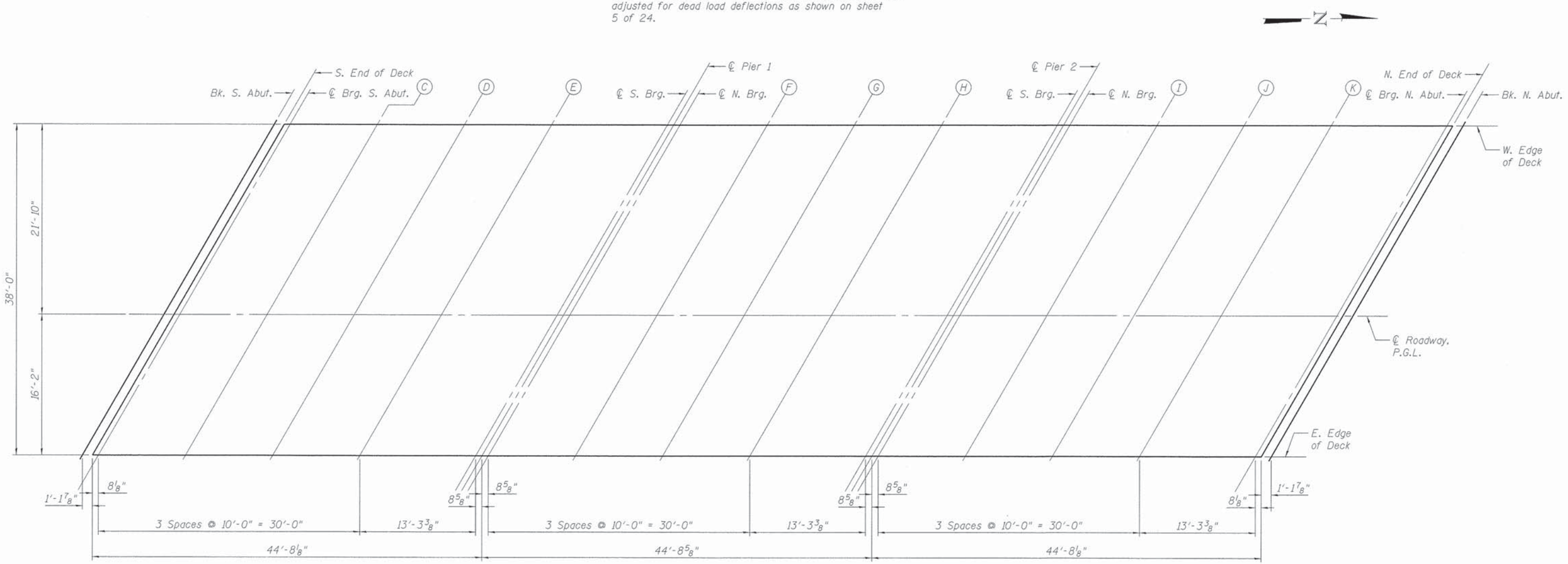
USER NAME = marisl



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 5 of 24.



PLAN

PLOT DATE = 8/6/2014
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USER NAME = marturi

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS (1 OF 2)
STRUCTURE NO. 022-3126
SHEET NO. 4 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	38
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

WEST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+54.42	-21.83	702.55	702.55
S. End of Deck	14+55.57	-21.83	702.54	702.54
CL Brg. S. Abut.	14+56.24	-21.83	702.54	702.54
C	14+66.24	-21.83	702.49	702.50
D	14+76.24	-21.83	702.44	702.45
E	14+86.24	-21.83	702.39	702.40
CL S. Brg.	14+99.52	-21.83	702.32	702.32
CL Pier 1	15+00.24	-21.83	702.32	702.32
CL N. Brg.	15+00.97	-21.83	702.32	702.32
F	15+10.97	-21.83	702.27	702.28
G	15+20.97	-21.83	702.22	702.23
H	15+30.97	-21.83	702.17	702.18
CL S. Brg.	15+44.24	-21.83	702.10	702.10
CL Pier 2	15+44.97	-21.83	702.10	702.10
CL N. Brg.	15+45.69	-21.83	702.09	702.09
I	15+55.69	-21.83	702.04	702.05
J	15+65.69	-21.83	701.99	702.00
K	15+75.69	-21.83	701.94	701.95
CL Brg. N. Abut.	15+88.97	-21.83	701.88	701.88
N. End of Deck	15+89.64	-21.83	701.87	701.87
Bk. N. Abut.	15+90.79	-21.83	701.87	701.87

℄ ROADWAY, P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+41.81	0.00	703.05	703.05
S. End of Deck	14+42.97	0.00	703.04	703.04
CL Brg. S. Abut.	14+43.64	0.00	703.04	703.04
C	14+53.64	0.00	702.99	703.00
D	14+63.64	0.00	702.94	702.95
E	14+73.64	0.00	702.89	702.90
CL S. Brg.	14+86.92	0.00	702.82	702.82
CL Pier 1	14+87.64	0.00	702.82	702.82
CL N. Brg.	14+88.36	0.00	702.82	702.82
F	14+98.36	0.00	702.77	702.78
G	15+08.36	0.00	702.72	702.73
H	15+18.36	0.00	702.67	702.68
CL S. Brg.	15+31.64	0.00	702.60	702.60
CL Pier 2	15+32.36	0.00	702.60	702.60
CL N. Brg.	15+33.08	0.00	702.59	702.59
I	15+43.08	0.00	702.54	702.55
J	15+53.08	0.00	702.49	702.50
K	15+63.08	0.00	702.44	702.45
CL Brg. N. Abut.	15+76.36	0.00	702.38	702.38
N. End of Deck	15+77.03	0.00	702.37	702.37
Bk. N. Abut.	15+78.19	0.00	702.37	702.37

EAST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+32.48	16.17	702.77	702.77
S. End of Deck	14+33.63	16.17	702.76	702.76
CL Brg. S. Abut.	14+34.31	16.17	702.76	702.76
C	14+44.31	16.17	702.71	702.72
D	14+54.31	16.17	702.66	702.67
E	14+64.31	16.17	702.61	702.62
CL S. Brg.	14+77.58	16.17	702.55	702.55
CL Pier 1	14+78.31	16.17	702.54	702.54
CL N. Brg.	14+79.03	16.17	702.54	702.54
F	14+89.03	16.17	702.49	702.50
G	14+99.03	16.17	702.44	702.45
H	15+09.03	16.17	702.39	702.40
CL S. Brg.	15+22.31	16.17	702.32	702.32
CL Pier 2	15+23.03	16.17	702.32	702.32
CL N. Brg.	15+23.75	16.17	702.32	702.32
I	15+33.75	16.17	702.27	702.28
J	15+43.75	16.17	702.22	702.23
K	15+53.75	16.17	702.17	702.18
CL Brg. N. Abut.	15+67.03	16.17	702.10	702.10
N. End of Deck	15+67.70	16.17	702.10	702.10
Bk. N. Abut.	15+68.86	16.17	702.09	702.09

PLOT DATE = 8/6/2014
FILE NAME = N:\4-013-2379-888 Williams Road\CADD\Sheets\Williams 05 - Top of Deck Elevations 2.dgn
USER NAME = marturi

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS (2 OF 2)
STRUCTURE NO. 022-3126
SHEET NO. 5 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	39
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

WEST EDGE OF SHOULDER

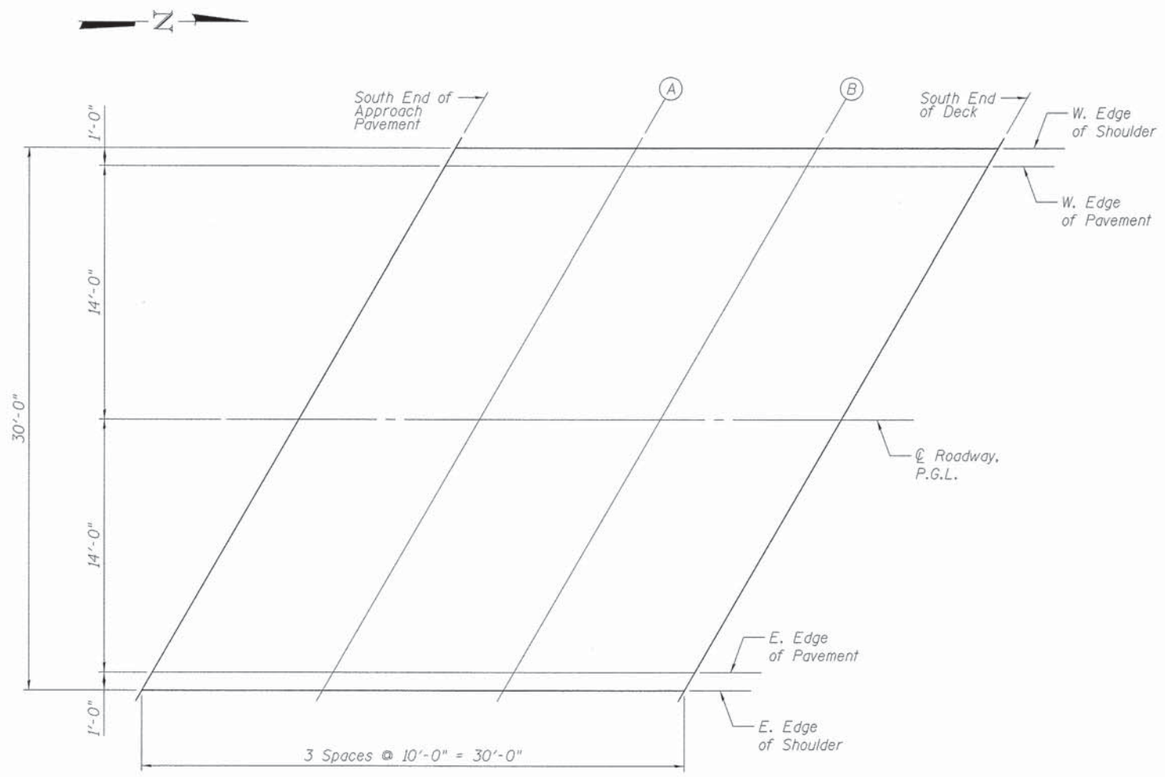
Location	Station	Offset	Theoretical Grade Elevations
S. End Appr. Pvmt.	14+21.63	-15.00	702.81
A	14+31.63	-15.00	702.80
B	14+41.63	-15.00	702.75
S. End Deck	14+51.63	-15.00	702.70

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End Appr. Pvmt.	14+21.05	-14.00	702.87
A	14+31.05	-14.00	702.82
B	14+41.05	-14.00	702.77
S. End Deck	14+51.05	-14.00	702.72

℄ ROADWAY, P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
S. End Appr. Pvmt.	14+12.97	0.00	703.19
A	14+22.97	0.00	703.14
B	14+32.97	0.00	703.09
S. End Deck	14+42.97	0.00	703.04



PLAN

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End Appr. Pvmt.	14+04.88	14.00	702.95
A	14+14.88	14.00	702.90
B	14+24.88	14.00	702.85
S. End Deck	14+34.88	14.00	702.80

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End Appr. Pvmt.	14+04.31	15.00	702.89
A	14+14.31	15.00	702.88
B	14+24.31	15.00	702.83
S. End Deck	14+34.31	15.00	702.78

PLOT DATE = 8/6/2014
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USER NAME = martinl

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 022-3126
SHEET NO. 6 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	40
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

WEST EDGE OF SHOULDER

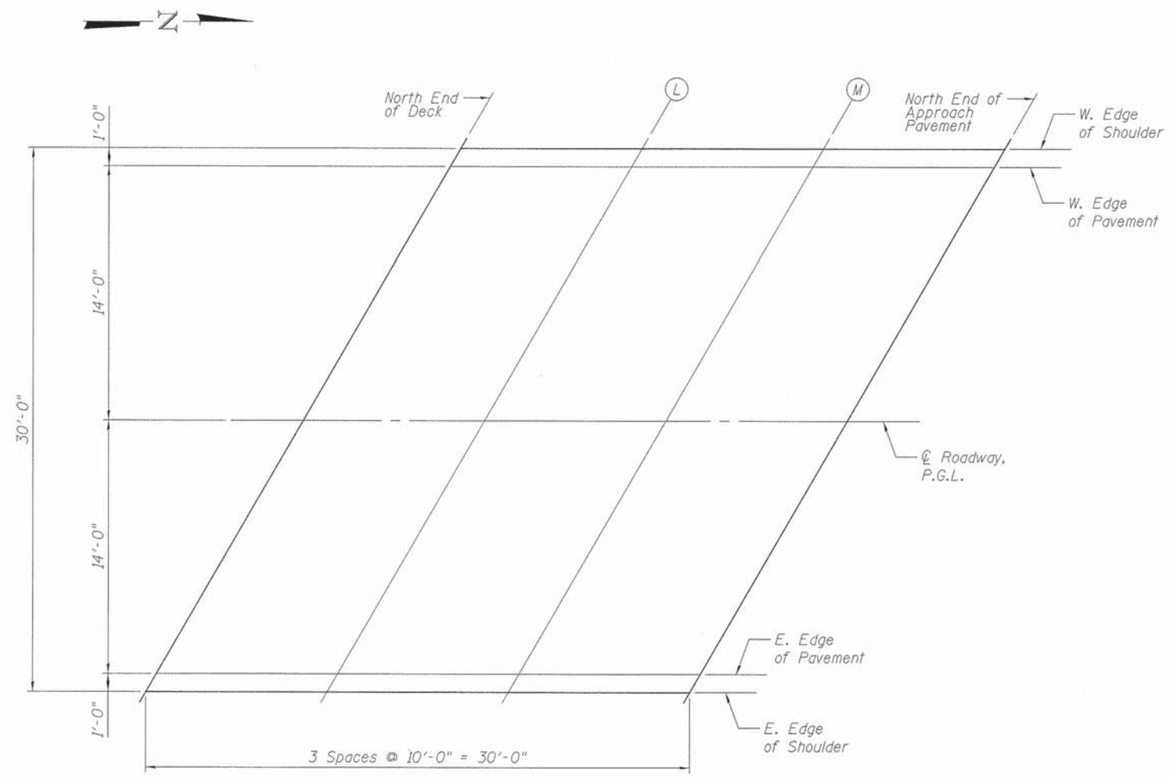
Location	Station	Offset	Theoretical Grade Elevations
N. End Deck	15+85.69	-15.00	702.03
L	15+95.69	-15.00	701.98
M	16+05.69	-15.00	701.93
N. End Appr. Pvmt.	16+15.69	-15.00	701.84

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End Deck	15+85.12	-14.00	702.05
L	15+95.12	-14.00	702.00
M	16+05.12	-14.00	701.95
N. End Appr. Pvmt.	16+15.12	-14.00	701.90

℄ ROADWAY, P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
N. End Deck	15+77.03	0.00	702.37
L	15+87.03	0.00	702.32
M	15+97.03	0.00	702.27
N. End Appr. Pvmt.	16+07.03	0.00	702.22



PLAN

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End Deck	15+68.95	14.00	702.13
L	15+78.95	14.00	702.08
M	15+88.95	14.00	702.03
N. End Appr. Pvmt.	15+98.95	14.00	701.98

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End Deck	15+68.37	15.00	702.12
L	15+78.37	15.00	702.07
M	15+88.37	15.00	702.02
N. End Appr. Pvmt.	15+98.37	15.00	701.93

PLOT DATE = 6/6/2014
FILE NAME = X:\PW\13-2379-908.Illinois_Road\C4D\S\Sheets\Williams 87 - Top of N Approach Slab Elevations.dgn
USER NAME = marturi

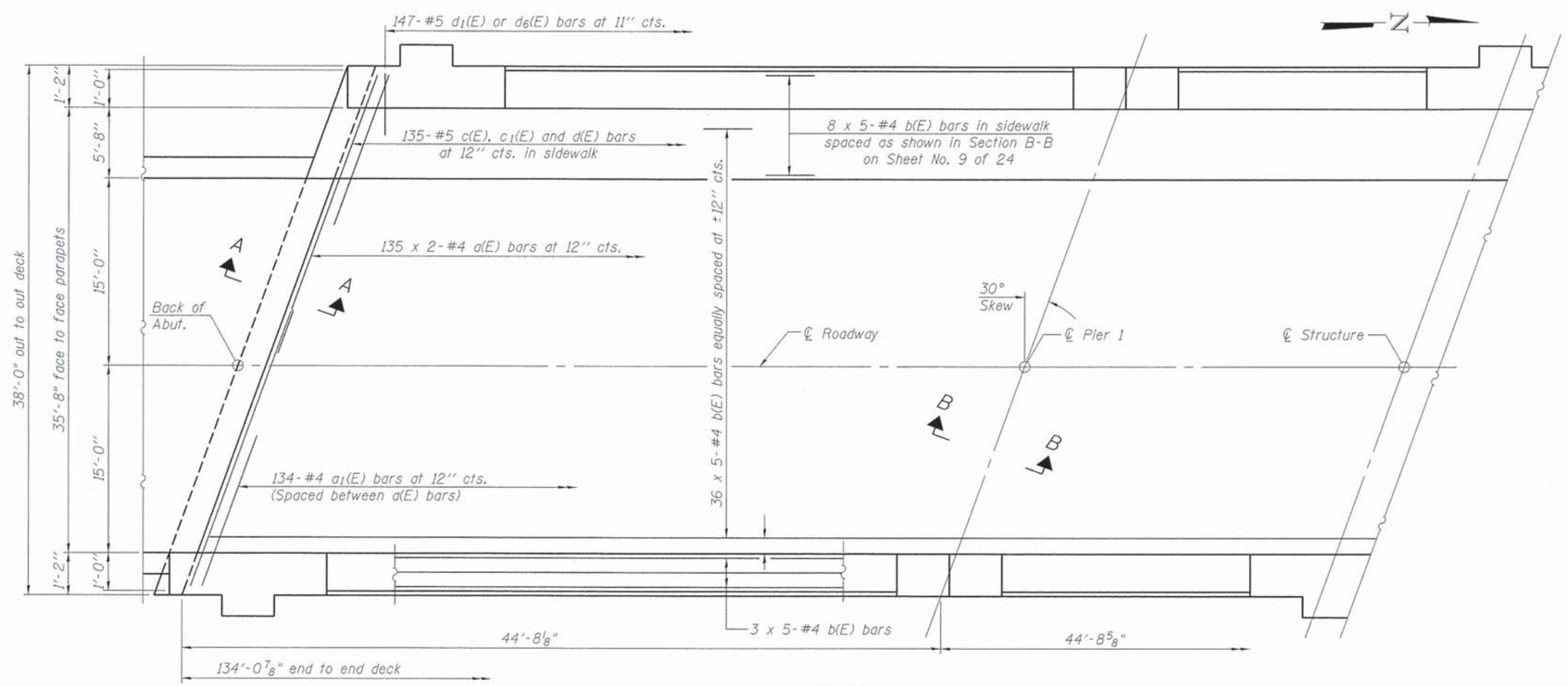
RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

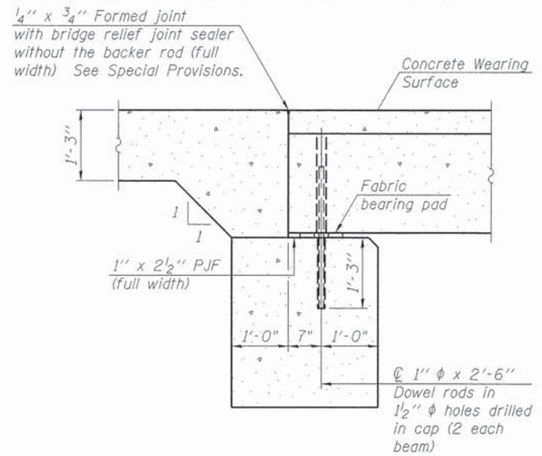
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 022-3126
SHEET NO. 7 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	41
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		



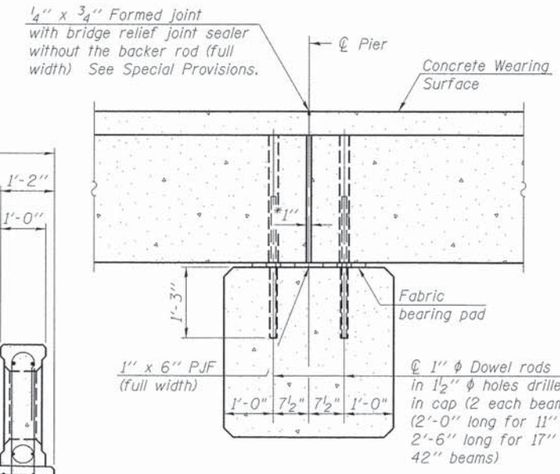
PLAN



SECTION A-A

(Dimensions are at Rt. L's)

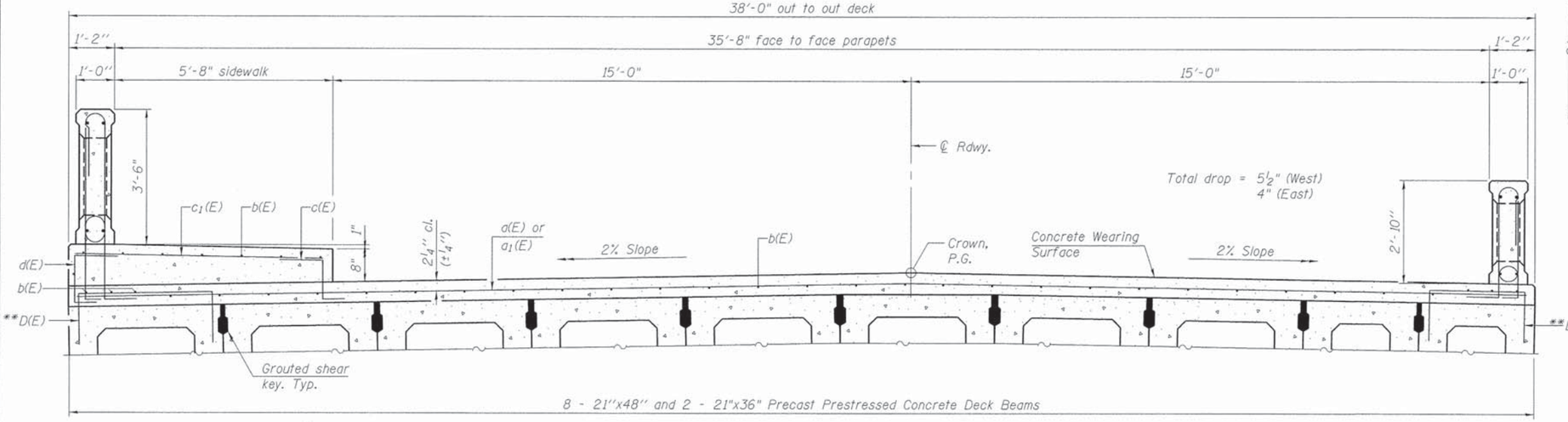
Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet 16 of 24 and 18 of 24 for fabric bearing pad details.



SECTION B-B

(Dimensions are at Rt. L's)

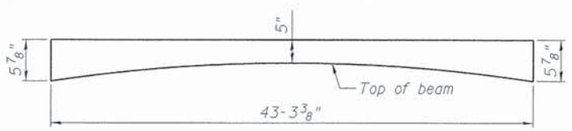
*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.



CROSS SECTION

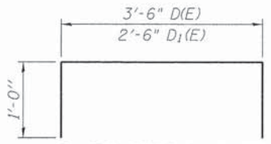
(Looking North)

Notes:
See sheets 9 of 24 thru 12 of 24 for Superstructure Details. See sheet 12 of 24 for Bill of Material.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
Spacing of a(E) and a1(E) bars shall be measured along the ℄ of structure.



ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)



BARS D(E) & D1(E)

**Place #4 D(E) and #4 D1(E) bars at 9" cts. in fascia beams. D(E) and D1(E) bars included in cost of beams.

MINIMUM BAR LAP

#4 bar = 2'-7"

PLOT DATE = 8/6/2014
FILE NAME = X:\KP\1127-2379-B88_Williams_Road\CAD\S\Sheets\Williams 88 - Superstructure.dgn
USER NAME = mertzl

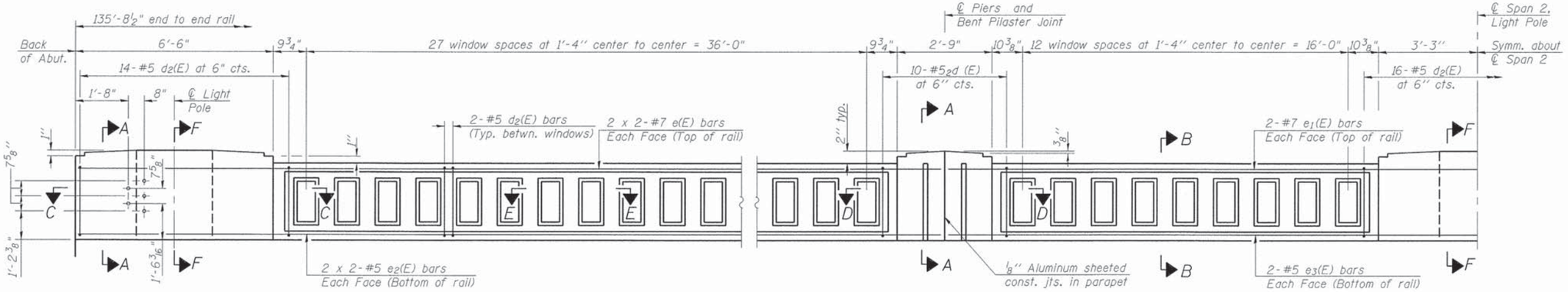
RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

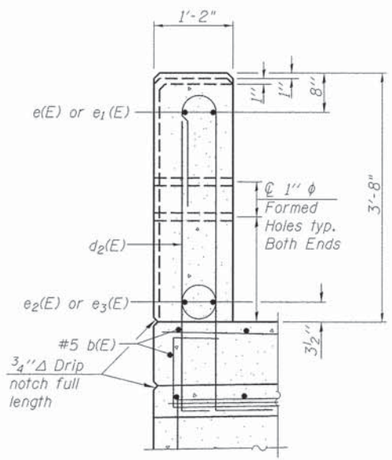
SUPERSTRUCTURE
STRUCTURE NO. 022-3126
SHEET NO. 8 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	42
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

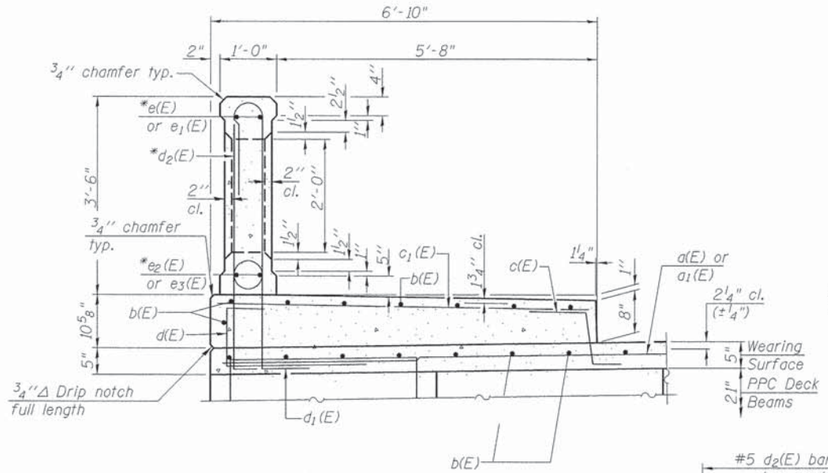


SPAN PILASTER PIER PILASTER

INSIDE ELEVATION OF RAIL

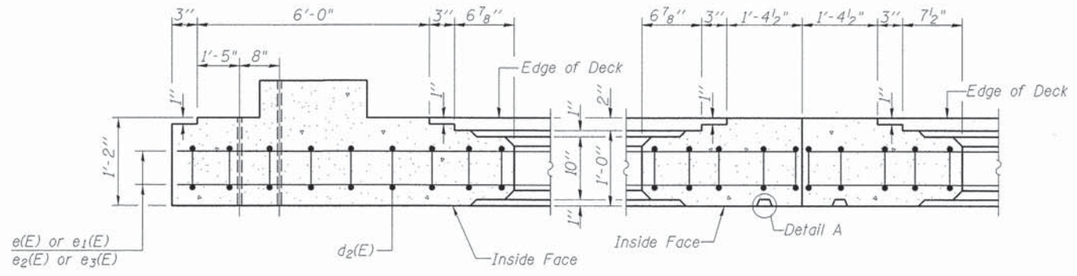


SECTION A-A



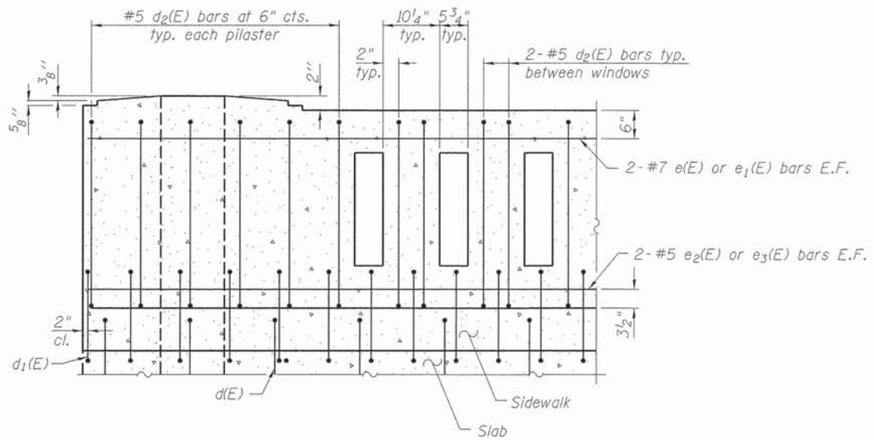
SECTION B-B

*Bars e(E) thru $e_3(E)$ and $d_2(E)$ are included in the cost of Concrete Bridge Railing, Sidewalk Mounted.



SECTION C-C

SECTION D-D



TYPICAL REINFORCEMENT PLACEMENT

(Inside Face)

BAR LIST

Bar	No.	Size	Length	Shape
$d_2(E)$		#5	8'-8"	⬭
$e(E)$		#7	24'-9"	—
$e_1(E)$		#7	24'-4"	—
$e_2(E)$		#5	24'-0"	—
$e_3(E)$		#5	23'-8"	—

Notes:

See sheet 10 of 24 for Concrete Bridge Rail and Light Pole Foundation details.

See sheet 12 of 24 for Bill of Material.

All concrete for railing wall shall be Class BS according to Article 1020.04 of the Standard Specifications. Surface of railing shall receive a rubbed finish according to Article 503.15(b) of the Standard Specifications.

All parts of the railing including concrete and reinforcing will be paid for at the contract unit price per foot for Concrete Bridge Rail, Sidewalk Mounted.

Holes and recesses must be formed or cored. Drilling is not permitted.

Aluminum sheets shall be according to ASTM B209 alloy 3003-H14.

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE BRIDGE RAILING, SIDEWALK MOUNTED (1 OF 2)
STRUCTURE NO. 022-3126

SHEET NO. 9 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	43
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 8/6/2014
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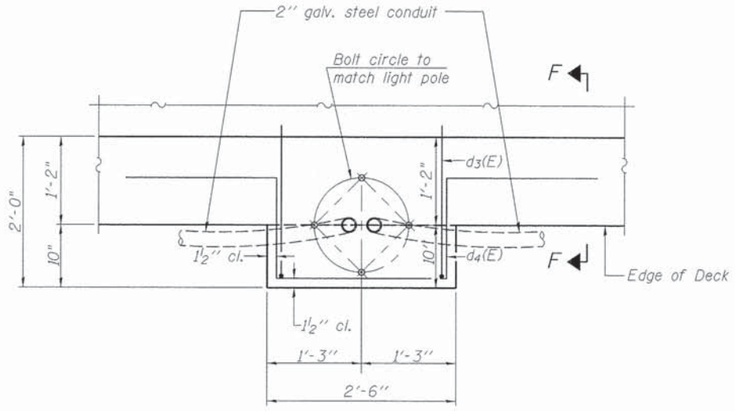
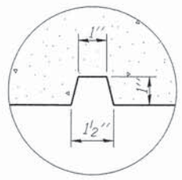
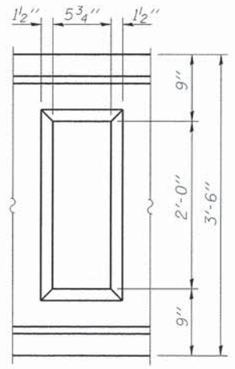


LIGHT POLE FOUNDATION PLAN

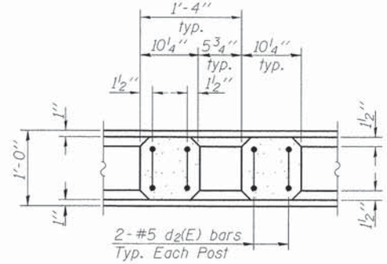
Notes:
Cost of anchor rods is included with Concrete Superstructure.
The concrete in the Light Pole Foundation shall be included in the costs of Concrete Bridge Rail, Sidewalk Mounted and Concrete Wearing Surface except for the portion of the concrete beyond the edge of deck, which shall be paid as Concrete Superstructures.



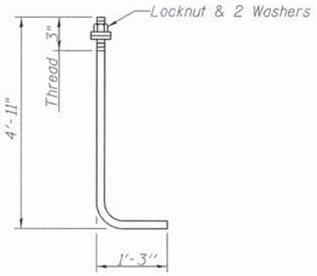
DETAIL A



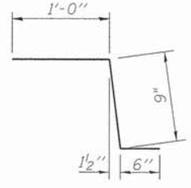
WINDOW DETAIL



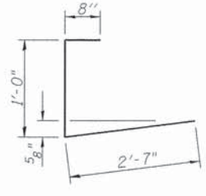
SECTION E-E



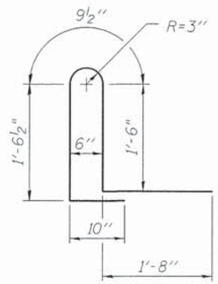
ANCHOR ROD
½" Diameter Galvanized Steel
(ASTM F 1554 Grade 105)



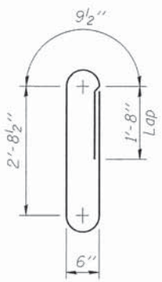
BAR c(E)



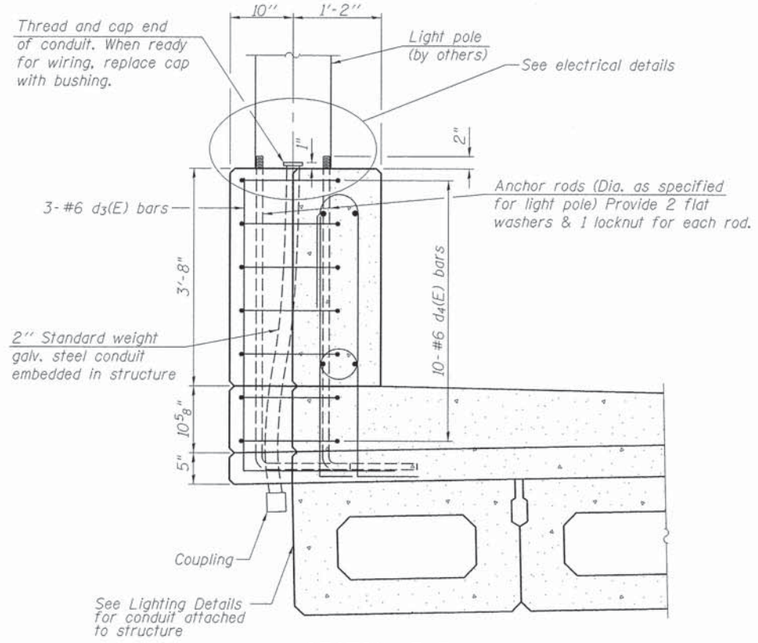
BAR d(E)



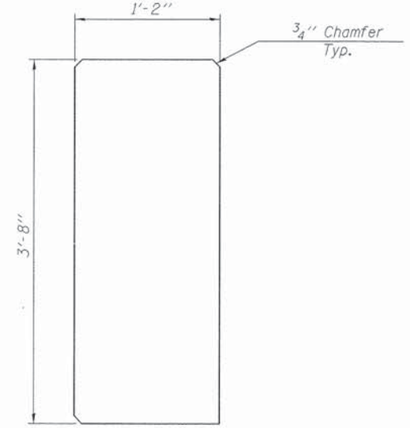
BAR d1(E)



BAR d2(E)

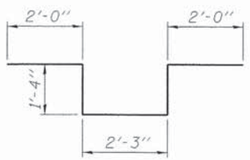


SECTION F-F

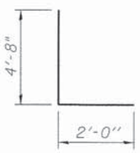


PIER PILASTER JOINT

ALUMINUM JOINT DETAILS



BAR d4(E)



BAR d3(E)

Note:
See sheet 12 of 24 for Bill of Material

MIN. BAR LAP
#5 bars = 2'-6"
#7 bars = 3'-11"

PLOT DATE = 6/6/2014
FILE NAME = u:\PLOTS\2379-BRR-Williams_Road\CADD\S\Sheets\Williams 18 - Concrete Bridge Rail Sidewalk 2.dgn
USER NAME = mertonl

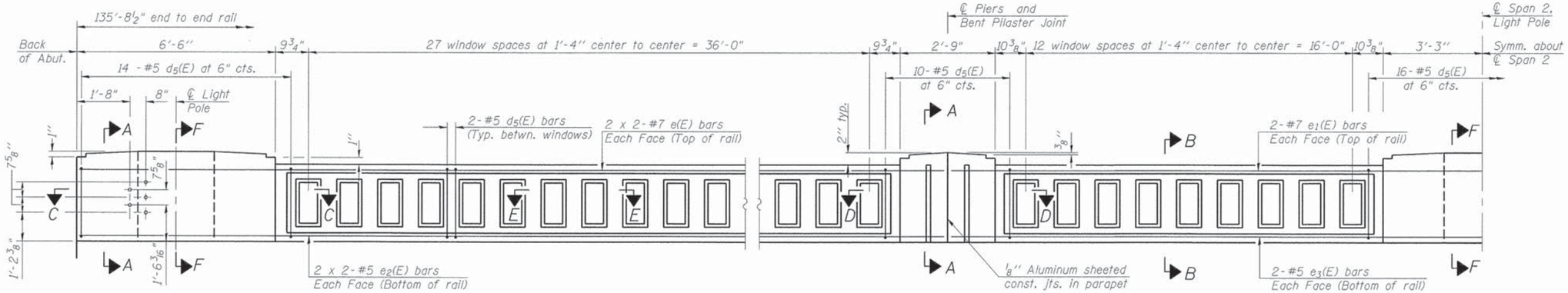
RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

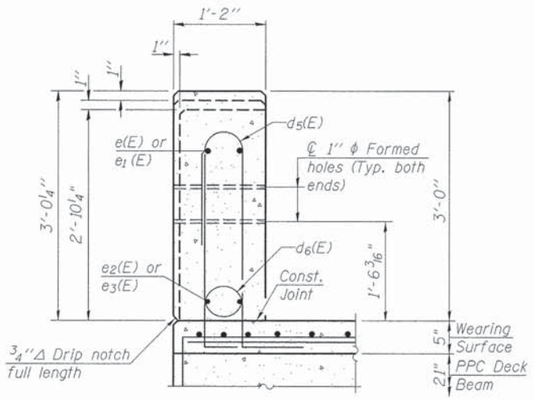
CONCRETE BRIDGE RAILING, SIDEWALK MOUNTED (2 OF 2)
STRUCTURE NO. 022-3126
SHEET NO. 10 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	44
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

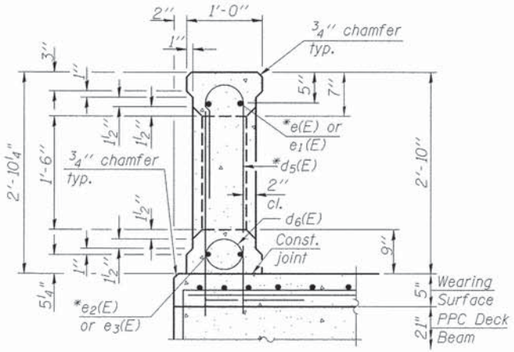


PIER PILASTER

INSIDE ELEVATION OF RAIL

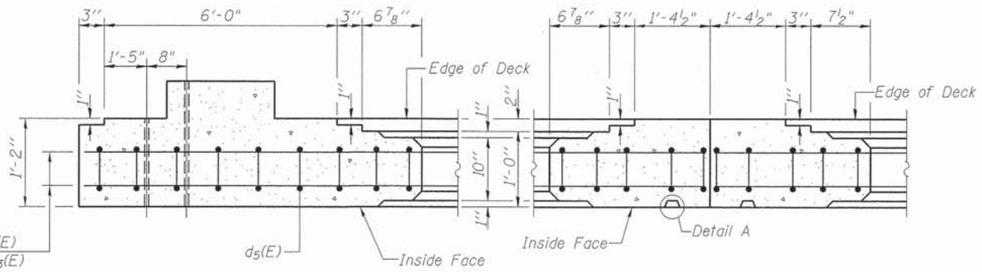


SECTION A-A



SECTION B-B

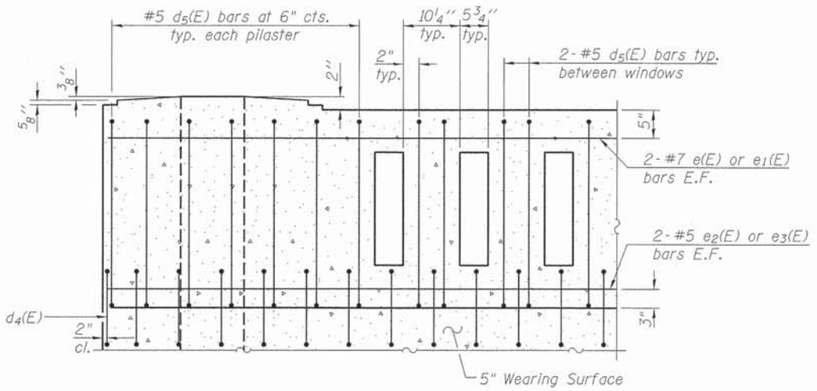
*Bars e(E) thru e3(E) and d5(E) are included in the cost of Concrete Bridge Railing.



SECTION C-C

(Light Pole Foundation reinforcement not shown)

SECTION D-D



TYPICAL REINFORCEMENT PLACEMENT

(Inside Face)

BAR LIST

Bar	No.	Size	Length	Shape
d5(E)		#5	7'-7"	
e(E)		#7	24'-9"	
e1(E)		#7	24'-4"	
e2(E)		#5	24'-0"	
e3(E)		#5	23'-8"	

Notes:

See sheet 12 of 24 for Concrete Bridge Rail and Light Pole Foundation details and Bill of Material.

All concrete for railing wall shall be Class BS according to Article 1020.04 of the Standard Specifications. Surface of railing shall receive a rubbed finish according to Article 503.15(b) of the Standard Specifications.

All parts of the railing including concrete and reinforcing will be paid for at the contract unit price per foot for Concrete Bridge Railing.

Holes and recesses must be formed or cored. Drilling is not permitted.

Aluminum sheets shall be according to ASTM B209 alloy 3003-H14.

PLOT DATE = 8/6/2014
FILE NAME = c:\projects\2379-6100.Williams_Road\CADD\Sheets\Williams 11 - Concrete Bridge Rail Ldgn
USER NAME = marturi

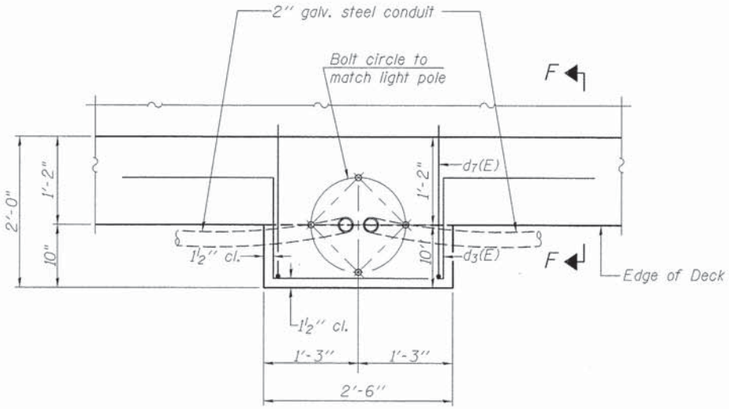
RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

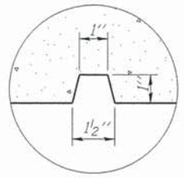
CONCRETE BRIDGE RAILING (1 OF 2)
STRUCTURE NO. 022-3126
SHEET NO. 11 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	45
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

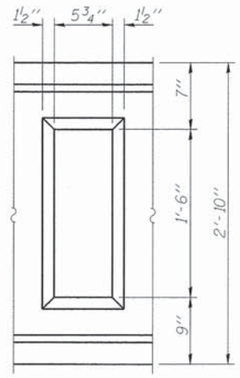


LIGHT POLE FOUNDATION PLAN

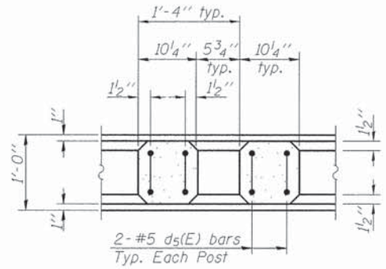
Notes:
Cost of anchor rods is included with Concrete Superstructure.
The concrete in the Light Pole Foundation shall be included in the costs of Concrete Bridge Railing and Concrete Wearing Surface except for the portion of the concrete beyond the edge of deck, which shall be paid as Concrete Superstructures.



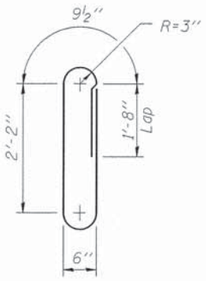
DETAIL A



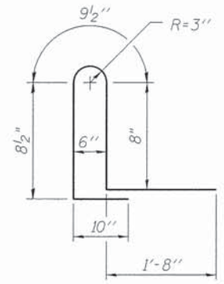
WINDOW DETAIL



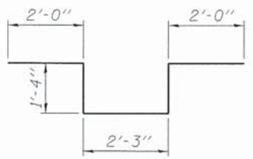
SECTION E-E



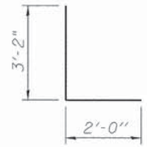
BAR d5(E)



BAR d6(E)



BAR d3(E)

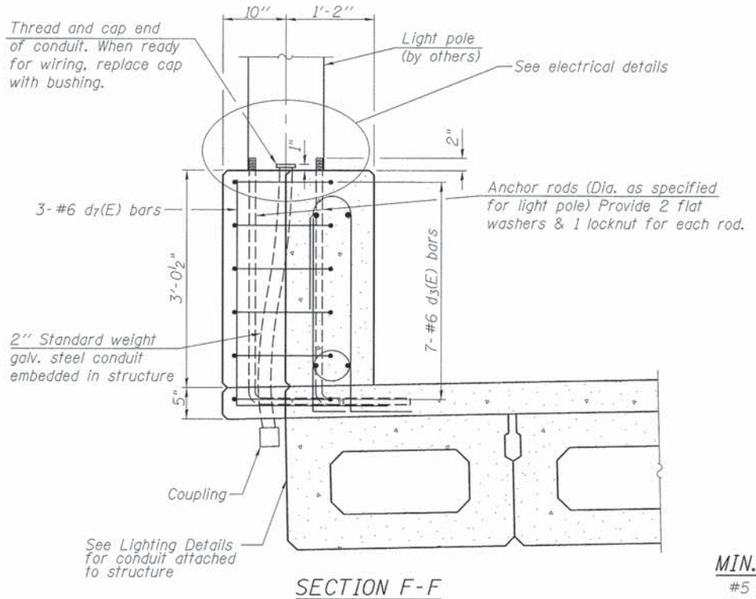


BAR d7(E)

SUPERSTRUCTURE BILL OF MATERIAL

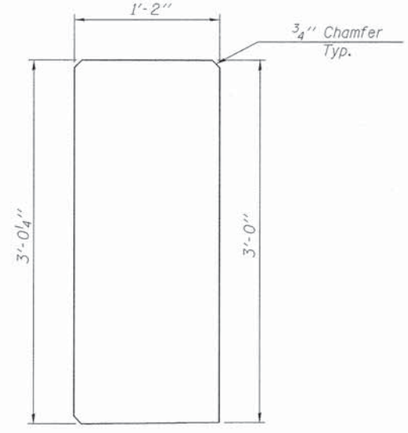
Bar	No.	Size	Length	Shape
a(E)	270	#4	23'-1"	——
a1(E)	268	#4	6'-0"	——
b(E)	220	#4	28'-10"	——
c(E)	135	#5	2'-3"	⌐
c1(E)	135	#5	7'-6"	——
d(E)	135	#5	4'-3"	L
d1(E)	147	#5	6'-4"	L
d3(E)	9	#6	6'-8"	L
d4(E)	51	#6	8'-11"	⌐⌐
d6(E)	147	#5	4'-8"	L
d7(E)	9	#6	5'-2"	L
Reinforcement Bars, Epoxy Coated		Pound	13,980	
Concrete Superstructure		Cu. Yds.	28.8	
Concrete Bridge Railing		Foot	136	
Concrete Bridge Rail, Sidewalk Mounted		Foot	136	
Concrete Wearing Surface, 5"		Sq Yd	447	

Bars indicated thus 8 x 5-#4 etc. indicates 8 lines of bars with 5 lengths per line.

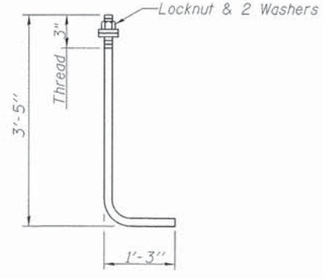


SECTION F-F

MIN. BAR LAP
#5 bars = 2'-6"
#7 bars = 3'-11"



PIER PILASTER JOINT



ANCHOR ROD
½" Diameter Galvanized Steel
(ASTM F 1554 Grade 105)

ALUMINUM JOINT DETAILS

PLOT DATE = 8/15/2014
FILE NAME = X:\PW\13-2379-B00\Williams_Road\CADD\S\Sheets\Williams 12 - Concrete Bridge Rail 2.dgn
USER NAME = marturi

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

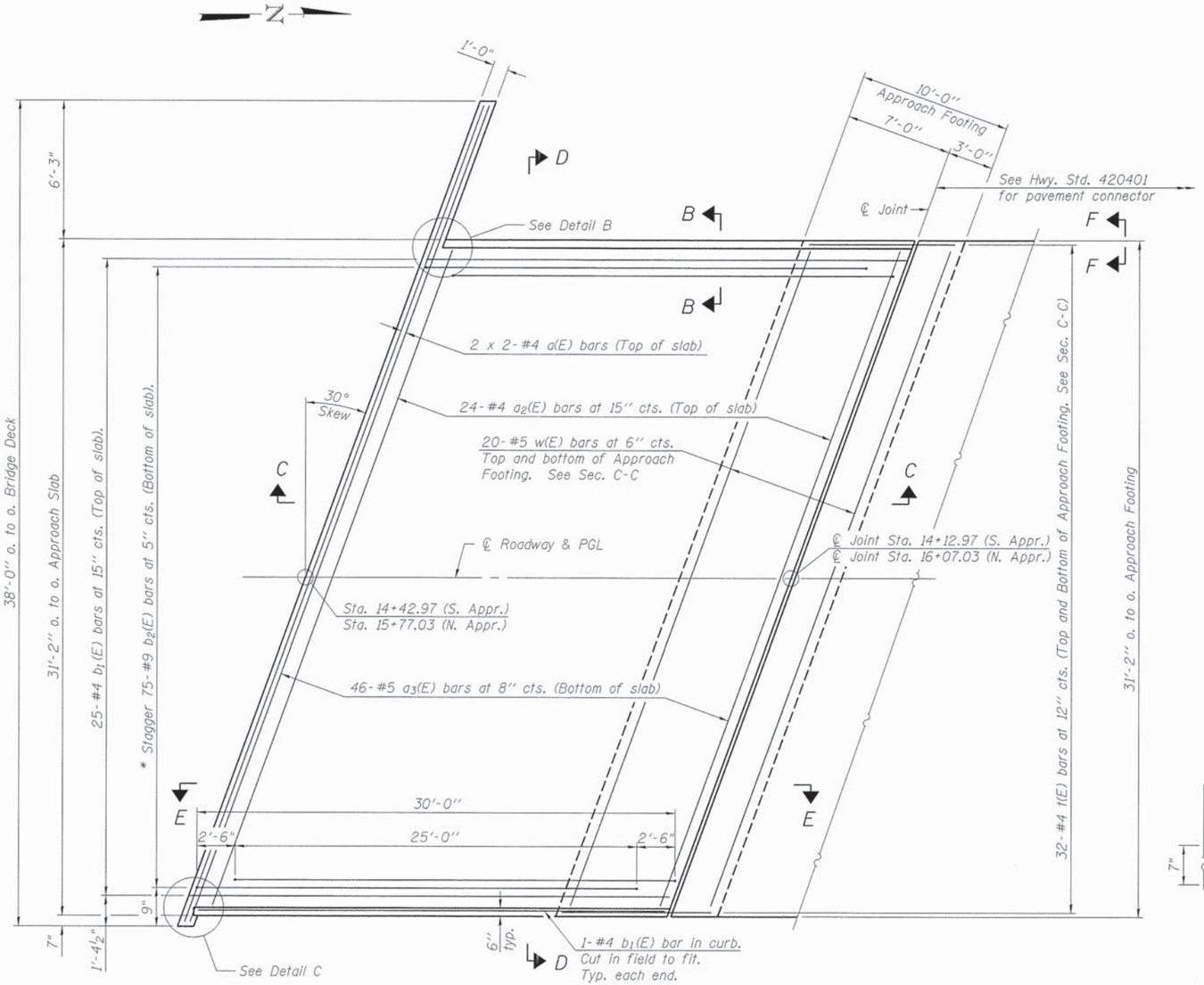
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE BRIDGE RAILING (2 OF 2)
STRUCTURE NO. 022-3126
SHEET NO. 12 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	46
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

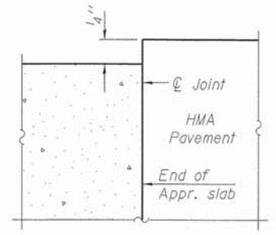
Notes:
See sheet 14 of 24 for Sections C-C & D-D and View E-E.
$a_2(E)$ and $a_3(E)$ bar spacings measured along ℄ Rdwy.

*** Cost included with Concrete Superstructure.



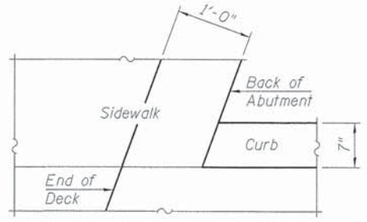
PLAN
(North Approach Shown - South Approach Similar)

* Tilt #9 $b_2(E)$ bars as required to maintain clearance.

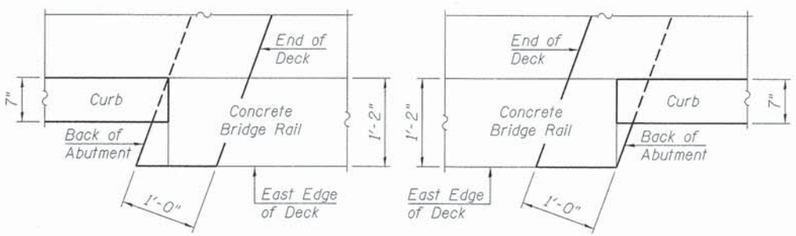


FLEXIBLE PAVEMENT

DETAIL A



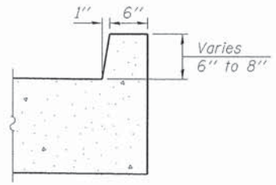
DETAIL B
(North Approach Shown - South Approach Mirrored)



SOUTH APPROACH NORTH APPROACH

DETAIL C

MINIMUM BAR LAP
#4 bar = 2'-7"



VIEW B-B

PLOT DATE = 9/6/2014
FILE NAME = X:\P\113-2379-B00 Williams Road\CAD\S\Sheets\Williams 13 - Approach Slab Details 1.dgn
USER NAME = mertinl

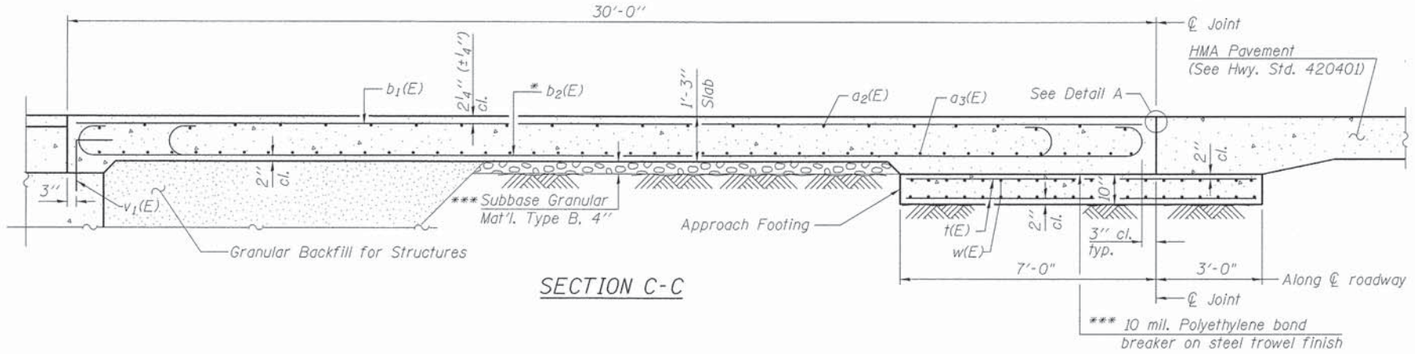
RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

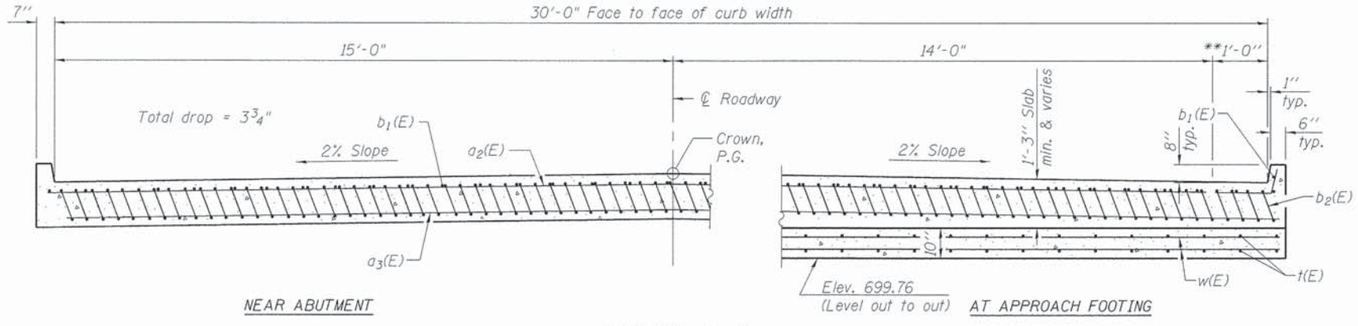
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS (1 OF 2)
STRUCTURE NO. 022-3126
SHEET NO. 13 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	47
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		



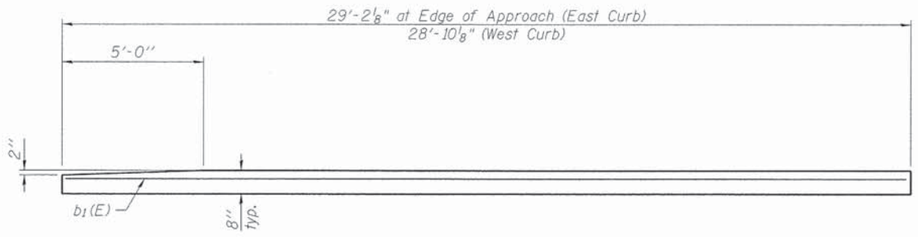
SECTION C-C



NEAR ABUTMENT AT APPROACH FOOTING

SECTION D-D

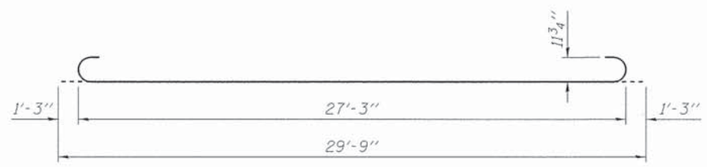
(See Plan for dimensions not shown)



VIEW E-E

Cut b_3(E) bar in field to fit Curb

BAR a_2(E)



BAR b_2(E)

Notes:

See sheet 13 of 24 for Detail A and View B-B.
Approach slab and curb concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v_1(E) bar details, see sheets 19 of 24 and 20 of 24.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 24.

* Tilt #9 b_2(E) bars as required to maintain clearance.
** Taper outer 1'-0" of lane to meet adjacent B-6.12 curb & gutter from 2% to 6% over the same 5'-0" length shown in View E-E.
*** Cost included with Concrete Superstructure.

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#4	23'-1"	
a_2(E)	48	#4	36'-7"	
a_3(E)	92	#5	35'-7"	
b_1(E)	54	#4	29'-8"	
b_2(E)	150	#9	29'-9"	
t(E)	64	#4	11'-1"	
w(E)	80	#5	35'-7"	
Concrete Superstructure			Cu. Yd.	94.7
Concrete Structures			Cu. Yd.	22.3
Reinforcement Bars, Epoxy Coated			Pound	24,410

Bars indicated thus 1 x 15-#5 etc. indicates 1 line of bars with 15 lengths per line.

RS&H

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DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS (2 OF 2)
STRUCTURE NO. 022-3126
SHEET NO. 14 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	48
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 8/6/2014
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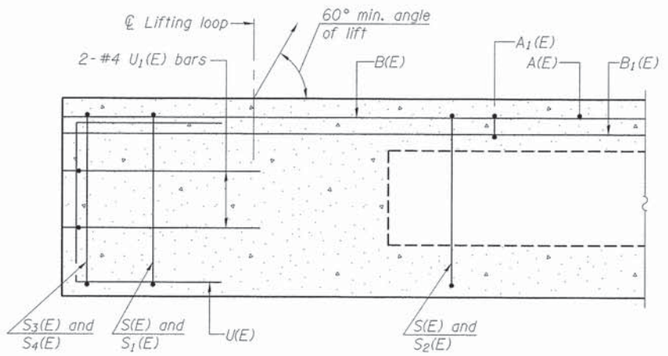
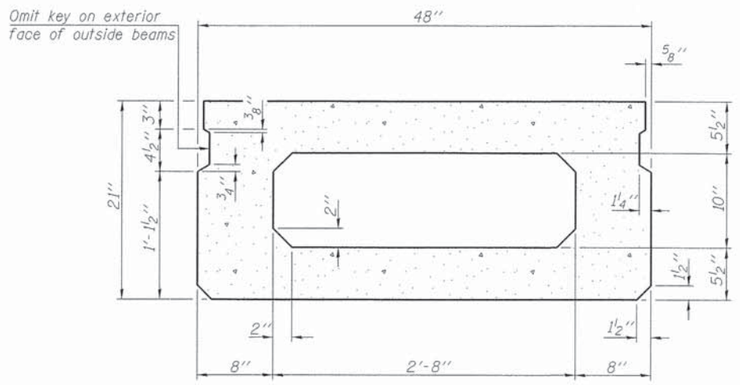
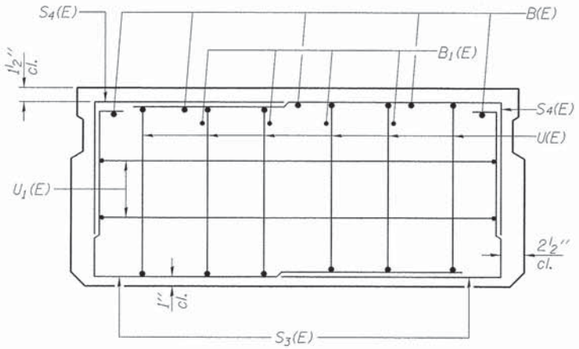
USER NAME = marsinl



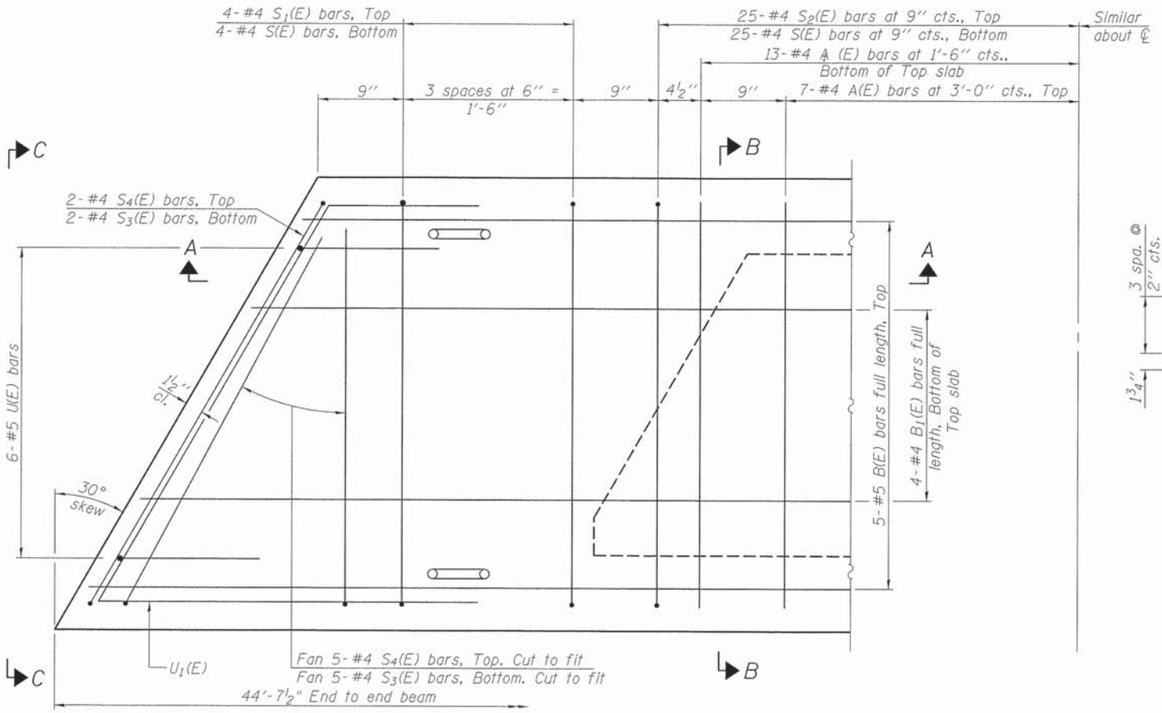
SECTION A-A



SECTION B-B
(Showing dimensions)

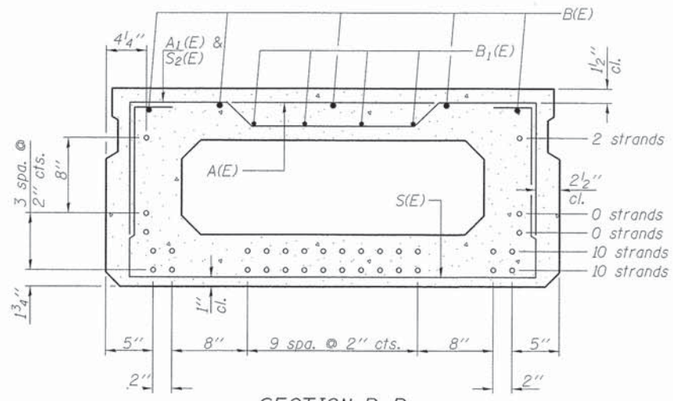


VIEW C-C



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.



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.

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	14	#4	3'-7"	—
$A_1(E)$	26	#4	3'-10"	~
B(E)	5	#5	44'-4"	—
$B_1(E)$	4	#4	44'-4"	—
S(E)	58	#4	7'-5"	⊔
$S_1(E)$	8	#4	5'-11"	⊓
$S_2(E)$	50	#4	6'-2"	⊓
$S_3(E)$	10	#4	6'-0"	⌋
$S_4(E)$	10	#4	5'-3"	⌋
U(E)	12	#5	4'-0"	⊏
$U_1(E)$	4	#4	8'-6"	⊏

Note: See sheet 16 of 24 for additional details and Bill of Material.

PLOT DATE = 8/6/2014
FILE NAME = N:\Proj\13-2379-000 Williams_Road\CAD\S\Sheets\Williams 15 - 48in PPC Deck Beam.dgn
USER NAME = marturi

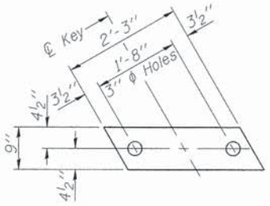
RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

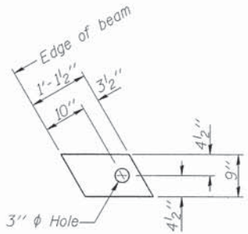
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM
STRUCTURE NO. 022-3126
SHEET NO. 15 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	49
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		



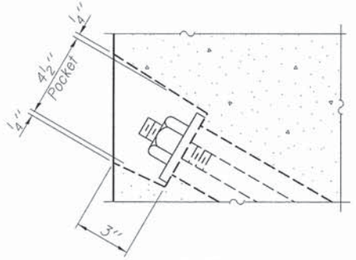
FABRIC BEARING PAD
(Interior)



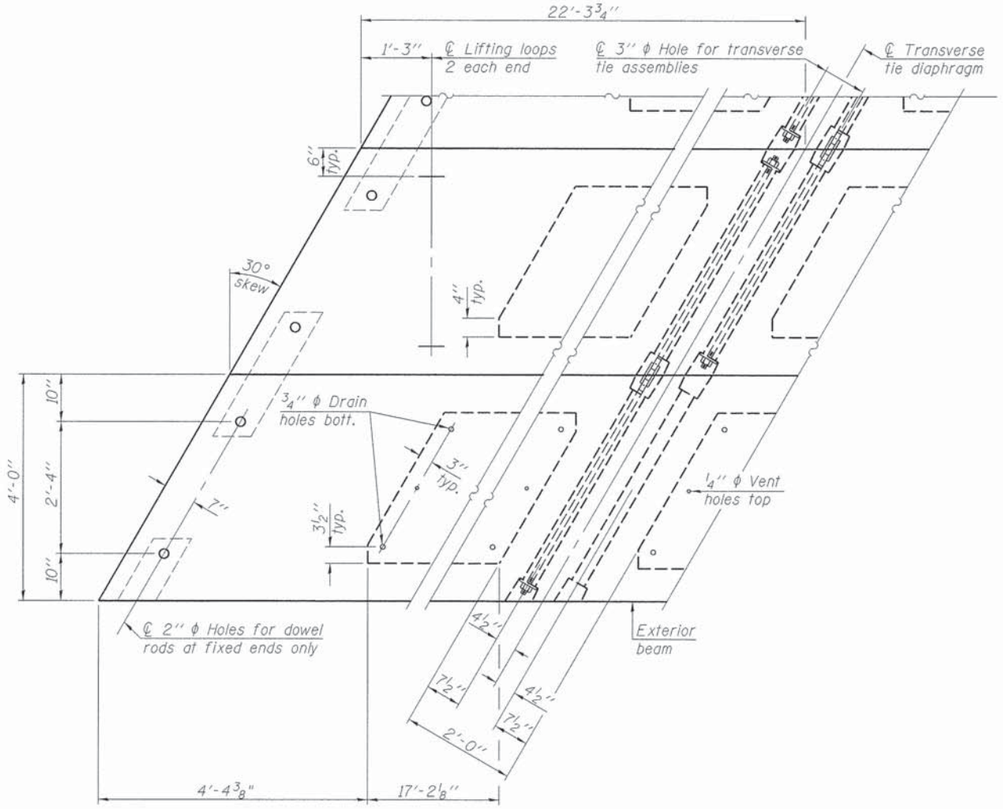
FABRIC BEARING PAD
(Exterior)

FIXED

Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.

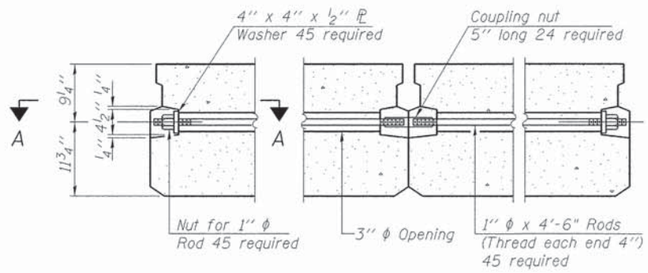


SECTION A-A

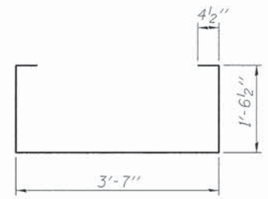


PLAN VIEW

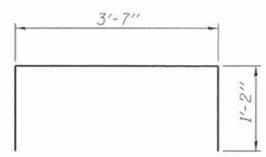
Note: Connect beams in pairs with the transverse tie configuration shown.



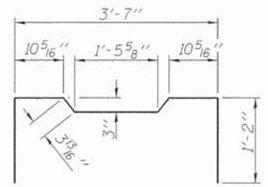
TYPICAL TRANSVERSE TIE ASSEMBLY



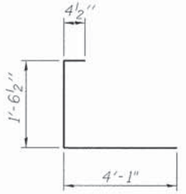
BAR S(E)



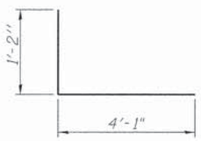
BAR S1(E)



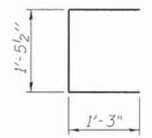
BAR S2(E)



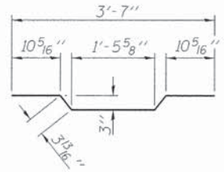
BAR S3(E)



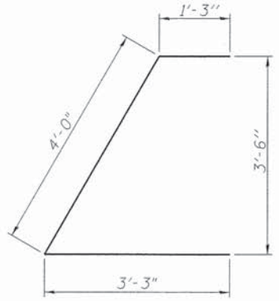
BAR S4(E)



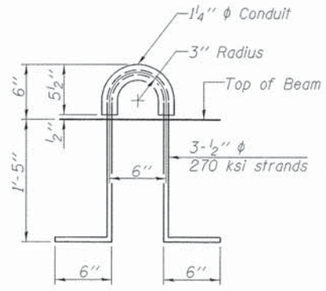
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

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

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	4,284

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 022-3126
SHEET NO. 16 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	50
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 8/6/2014
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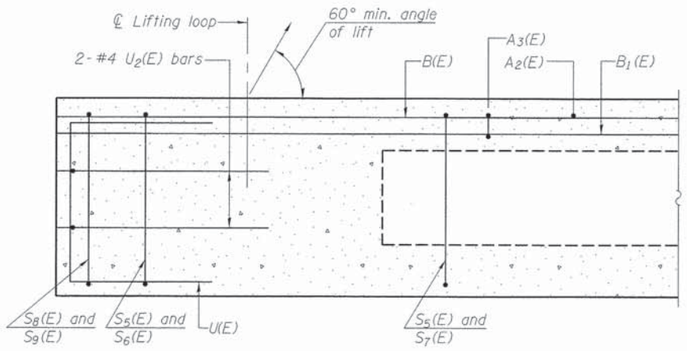
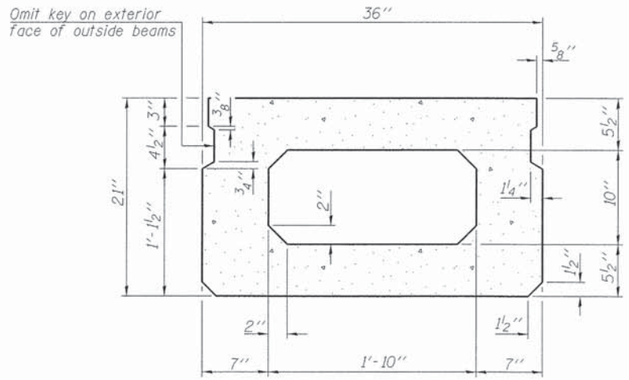
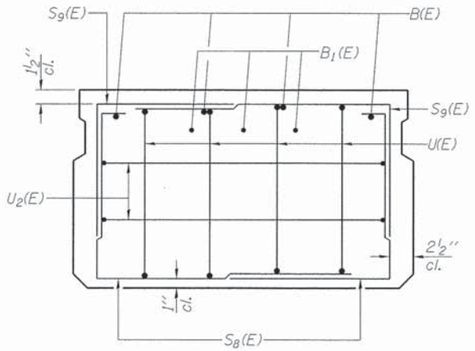


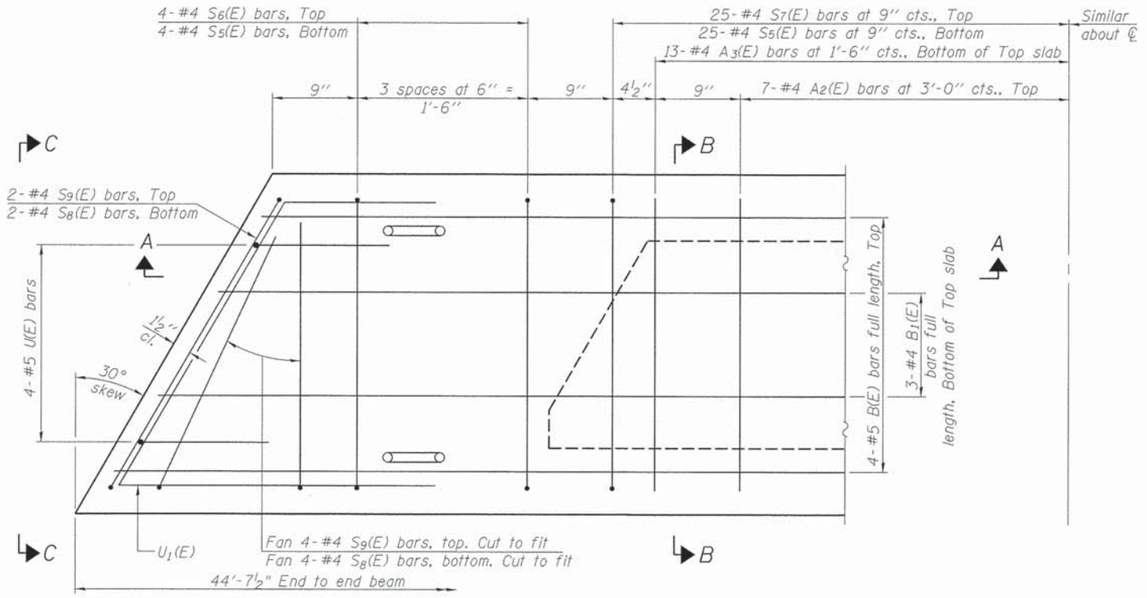
SECTION A-A



SECTION B-B
(Showing dimensions)

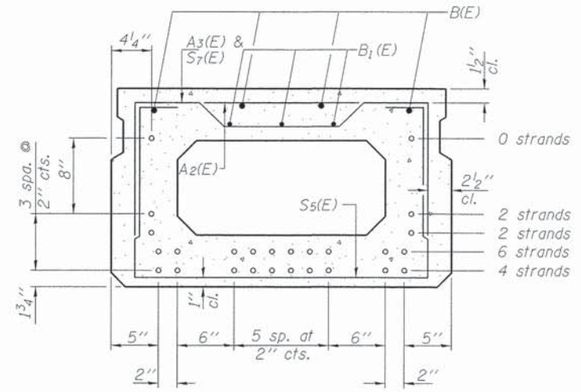


VIEW C-C



PLAN VIEW

Note: Spacing of $S_5(E)$ and $S_7(E)$ 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.



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.

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
$A_2(E)$	31	#4	2'-7"	—
$A_3(E)$	24	#4	2'-10"	⌒
$B(E)$	4	#5	44'-4"	—
$B_1(E)$	3	#4	44'-4"	—
$S_5(E)$	58	#4	6'-5"	⊏
$S_6(E)$	8	#4	4'-11"	⊐
$S_7(E)$	50	#4	5'-2"	⊐
$S_8(E)$	8	#4	4'-10"	⌊
$S_9(E)$	8	#4	4'-1"	⌊
$U(E)$	8	#5	4'-0"	⊏
$U_2(E)$	4	#4	6'-9"	⊏

Note: See sheet 18 of 24 for additional details and Bill of Material.

PLOT DATE = 8/6/2014
FILE NAME = A:*113-2379-B00_Williams_Road\CADD\Sheets\Williams 17 - 36in PPC Deck Beam.dgn
USER NAME = marturi

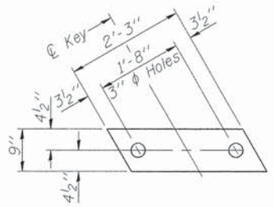
RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

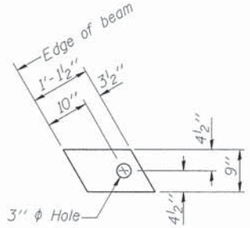
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 36" PPC DECK BEAM
STRUCTURE NO. 022-3126
SHEET NO. 17 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	51
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

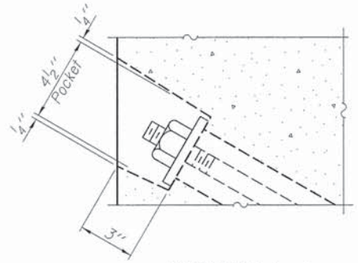


FABRIC BEARING PAD
(Interior)



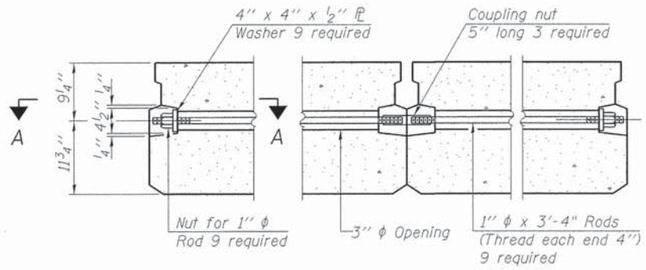
FABRIC BEARING PAD
(Exterior)

FIXED

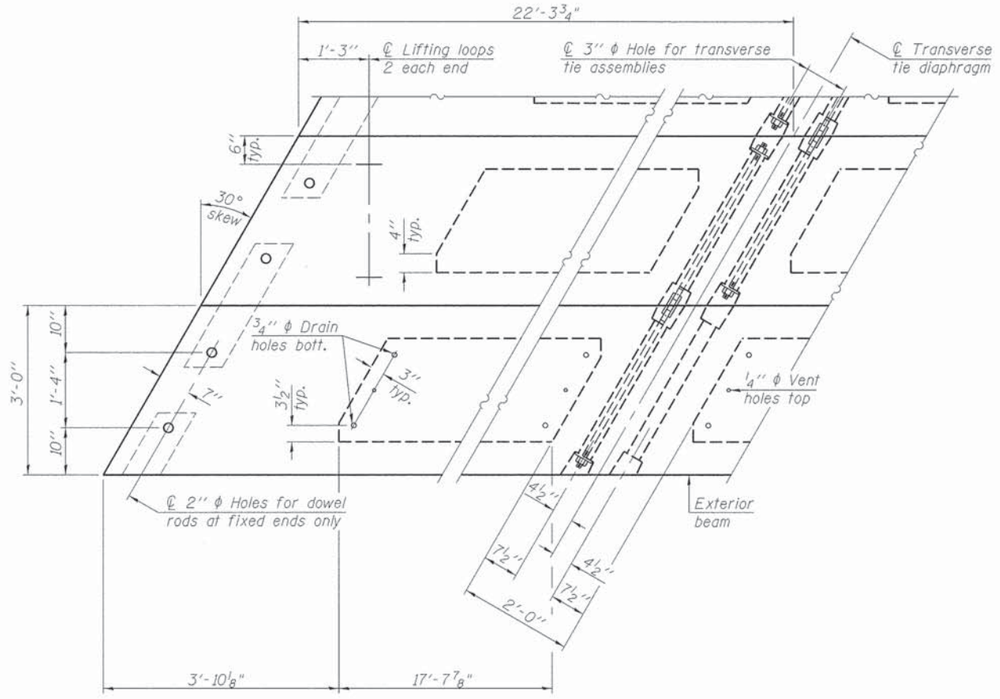


SECTION A-A

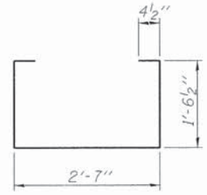
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



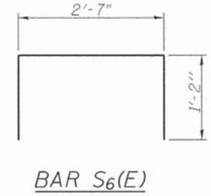
TYPICAL TRANSVERSE TIE ASSEMBLY



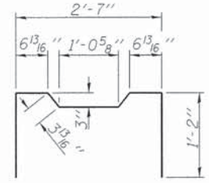
PLAN VIEW



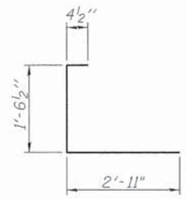
BAR S_5(E)



BAR S_6(E)



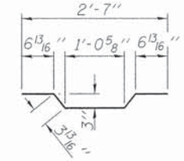
BAR S_7(E)



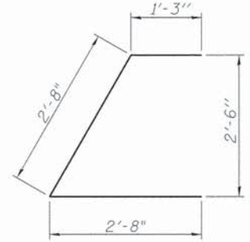
BAR S_8(E)

BAR S_9(E)

BAR U(E)



BAR A_3(E)



BAR U_2(E)

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

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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.

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

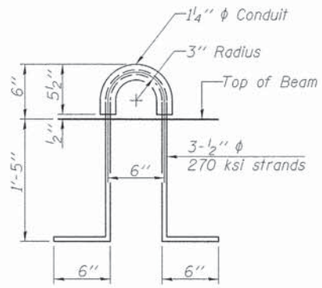
Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" 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.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	804

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

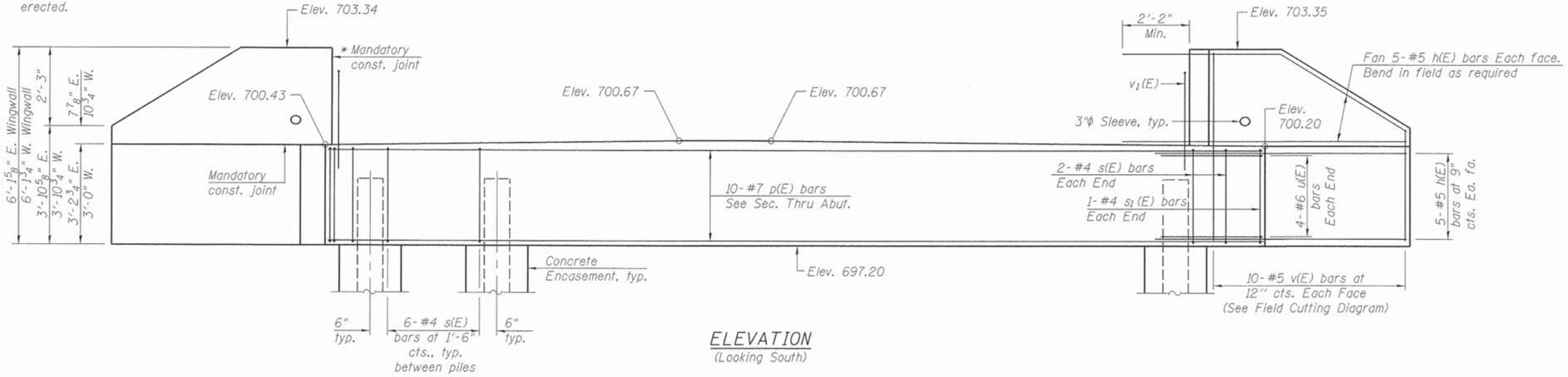
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 022-3126
SHEET NO. 18 OF 24 SHEETS

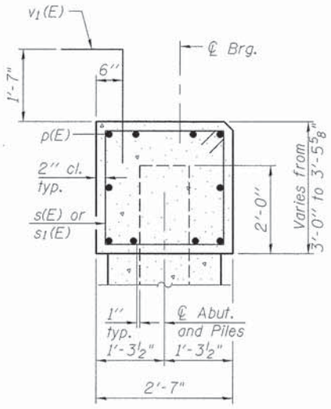
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	52
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 8/6/2014
FILE NAME = X:\P\113-2379-B00_Williams_Road\CAD\S\Sheets\Williams 18 - 36in PPC Deck Beam Details.dgn
USER NAME = mar-tuvl

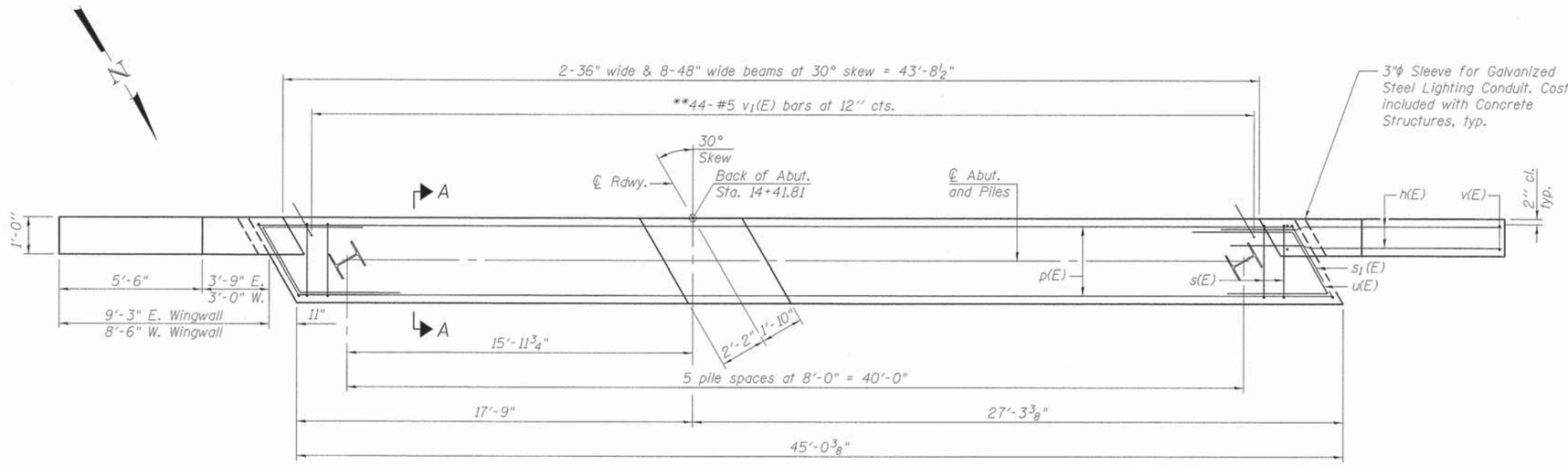
* Cast top of wingwall flush with exterior beam face after beams have been erected.



ELEVATION
(Looking South)



SECTION A-A
(Dimensions are at Rt. L's)



PLAN

** Turn or hook v1(E) bars where the approach slab does not extend beyond the back of abutment

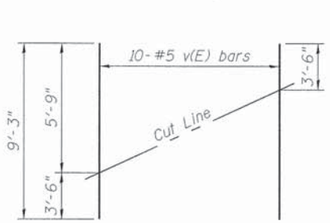
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	12'-7"	
p(E)	10	#7	44'-8"	
s(E)	34	#4	10'-3"	
s1(E)	2	#4	10'-11"	
u(E)	8	#6	7'-8"	
v(E)	20	#5	9'-3"	
v1(E)	44	#5	5'-5"	
Structure Excavation		Cu. Yd.	29	
Concrete Structures		Cu. Yd.	18.3	
Reinforcement Bars, Epoxy Coated		Pound	2,220	
Furnishing Steel Piles HP10x42		Foot	225	
Driving Piles		Foot	225	
Test Pile Steel HP10x42		Each	1	
Concrete Encasement		Cu. Yd.	2.1	
Pile Shoes		Each	6	

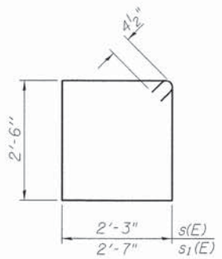
For details of piles and Concrete Encasement, see sheet 23 of 24.

PILE DATA

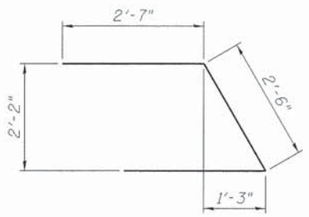
Type: HP10x42 with pile shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 167 kips
Est. Length: 45 ft
No. Production Piles: 5
No. Test Piles: 1



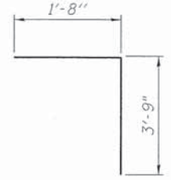
FIELD CUTTING DIAGRAM
Order v(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s(E) & s1(E)



BAR u(E)



BAR v1(E)

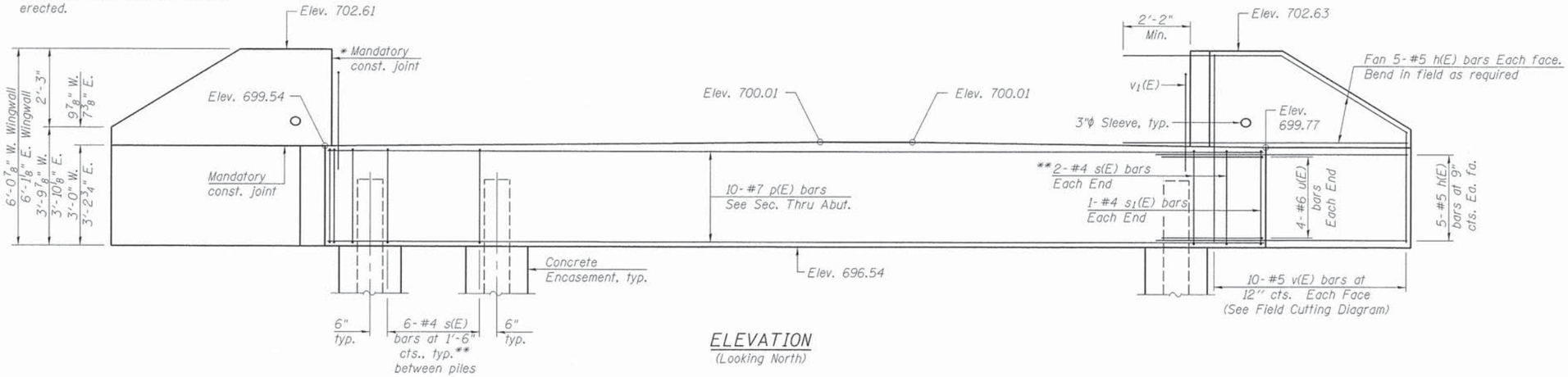
RS&H	DESIGNED - LM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - DSB	REVISED -	
	DRAWN - LM	REVISED -	
	CHECKED - DSB	REVISED -	

SOUTH ABUTMENT
STRUCTURE NO. 022-3126
SHEET NO. 19 OF 24 SHEETS

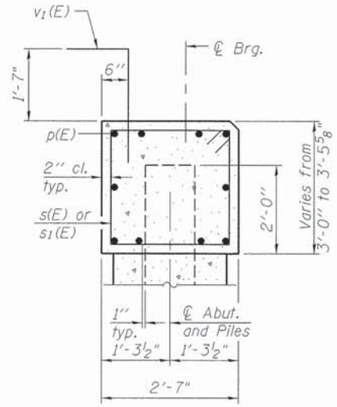
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	53
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 8/6/2014
FILE NAME = X:\PW\13-2379-000_Williams_Road\C&D\S\Sheets\Williams 19 - South Abutment.dgn
USER NAME = mar-tunl

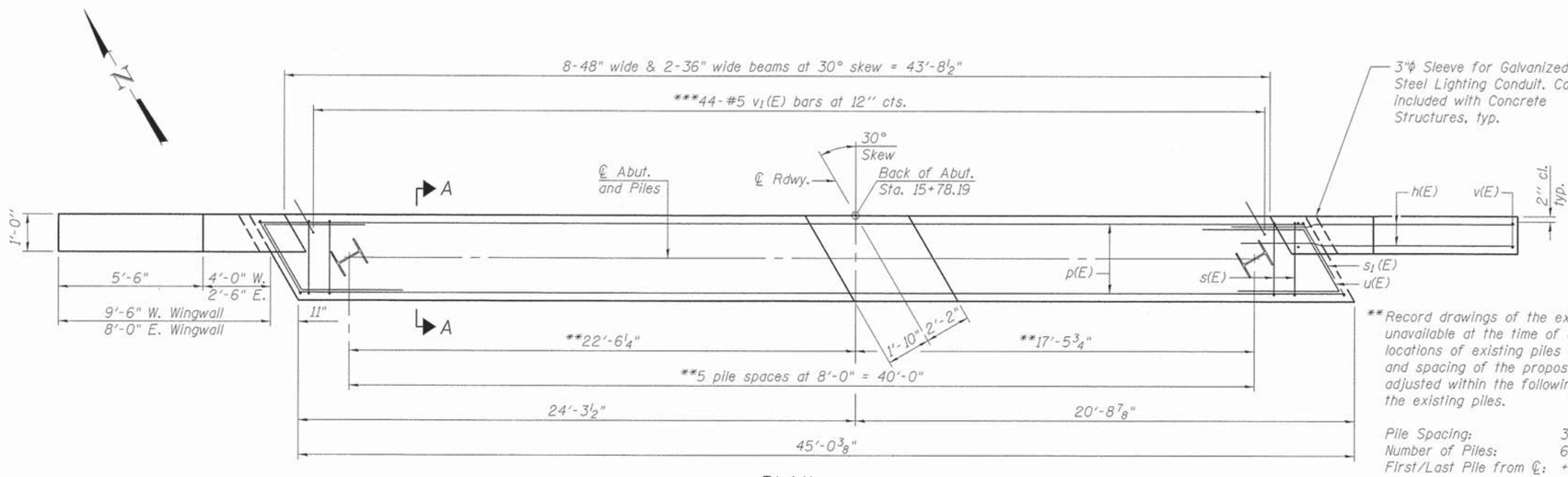
* Cast top of wingwall flush with exterior beam face after beams have been erected.



ELEVATION
(Looking North)



SECTION A-A
(Dimensions are at Rt. L's)



PLAN

*** Turn or hook v1(E) bars where the approach slab does not extend beyond the back of abutment

** Record drawings of the existing structure were unavailable at the time of design, therefore the locations of existing piles are unknown. The number and spacing of the proposed piles may need to be adjusted within the following limits in order to miss the existing piles.

Pile Spacing: 3'-0" Min. to 8'-0" Max.
Number of Piles: 6 Min.
First/Last Pile from ℄: +1'-0", -2'-0"

Upon removal of the existing North abutment, the Contractor shall examine the existing pile layout and determine the exact number and spacing of proposed piles for the approval of the Engineer. Upon the Engineer's approval, the Test Pile may be driven and the remainder of the piles may be ordered.

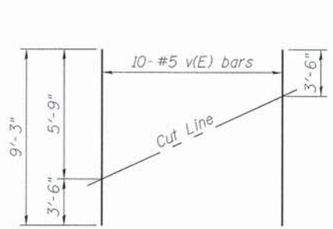
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	12'-7"	
p(E)	10	#7	44'-8"	
s(E)	34	#4	10'-3"	
s1(E)	2	#4	10'-11"	
u(E)	8	#6	7'-8"	
v(E)	20	#5	9'-3"	
v1(E)	44	#5	5'-5"	
Structure Excavation		Cu. Yd.	29	
Concrete Structures		Cu. Yd.	18.2	
Reinforcement Bars, Epoxy Coated		Pound	2,220	
Furnishing Steel Piles HP10x42		Foot	215	
Driving Piles		Foot	215	
Test Pile Steel HP10x42		Each	1	
Concrete Encasement		Cu. Yd.	2.1	
Pile Shoes		Each	6	

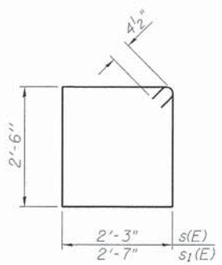
For details of piles and Concrete Encasement, see sheet 23 of 24.

PILE DATA

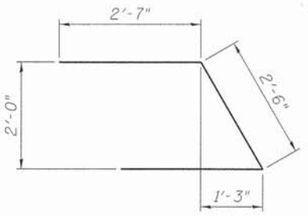
Type: HP10x42 with pile shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 167 kips
Est. Length: 43 ft
No. Production Piles: **5
No. Test Piles: 1



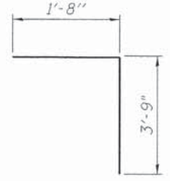
FIELD CUTTING DIAGRAM
Order v(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s(E) & s1(E)



BAR u(E)



BAR v1(E)

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

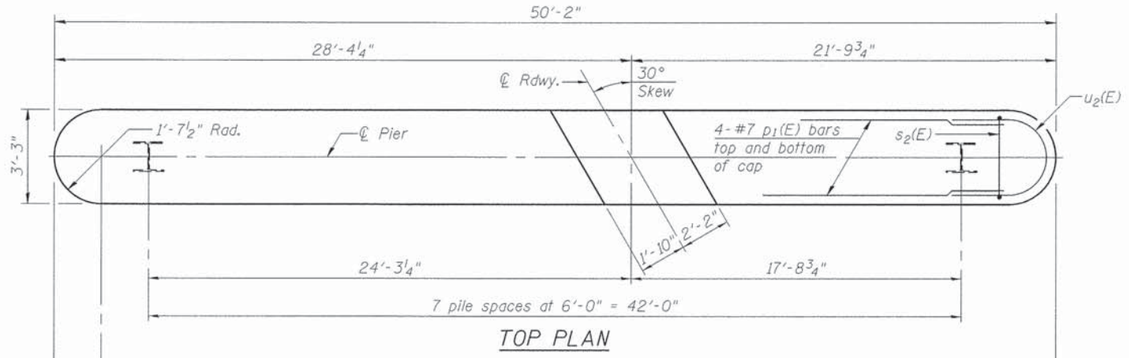
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 022-3126
SHEET NO. 20 OF 24 SHEETS

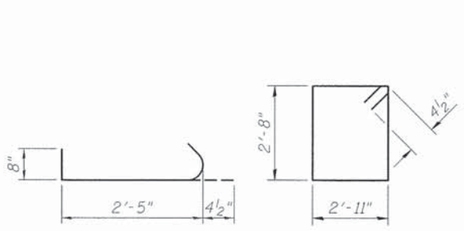
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	54
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 6/6/2014
FILE NAME = X:\PV\119-2279-B00 Williams Road\CADD'S\Sheets\Williams 20 - North Abutment.dgn
USER NAME = martinl

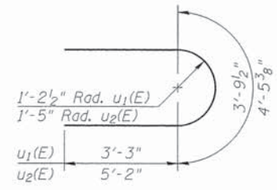
Notes:
For details of piles, see sheet 23 of 24.



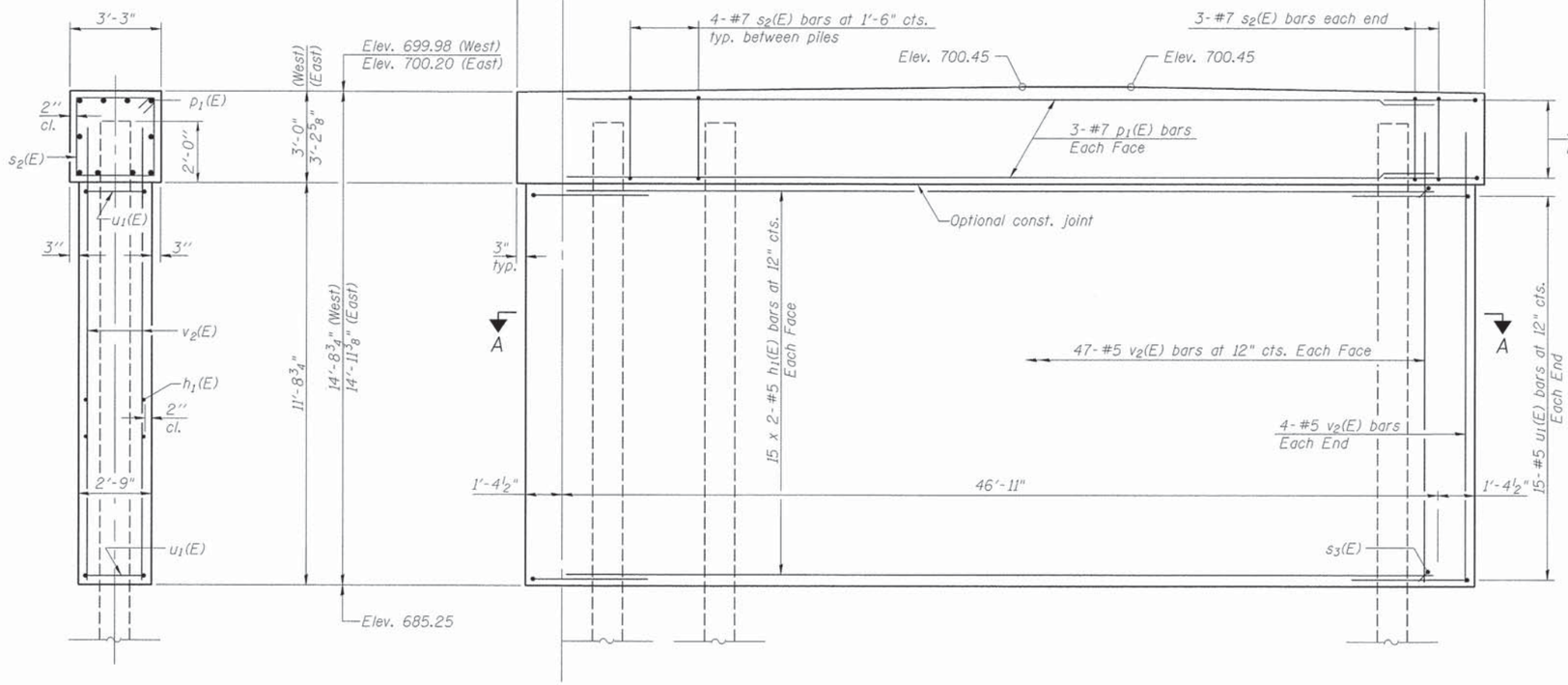
TOP PLAN



BAR $s_3(E)$ BAR $s_2(E)$



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

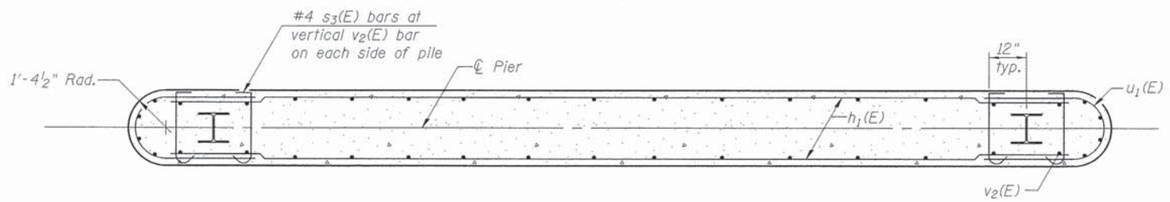


ELEVATION
(Looking North)

MINIMUM BAR LAP
#5 bar = 3'-3"

END VIEW

PILE DATA
Type: HP10x42 with pile shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 167 kips
Est. Length: 44 ft
No. Production Piles: 7
No. Test Piles: 1



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	60	#5	25'-1"	——
$p_1(E)$	10	#7	46'-11"	——
$s_2(E)$	34	#4	11'-11"	□
$s_3(E)$	240	#4	3'-6"	⊔
$u_1(E)$	30	#5	10'-4"	⊃
$u_2(E)$	6	#7	14'-10"	⊃
$v_2(E)$	102	#5	13'-6"	——
Cofferdam Excavation			Cu. Yd.	60
Cofferdam (Type 1) (Location - 1)			Each	1
Concrete Structures			Cu. Yd.	78.6
Reinforcement Bars, Epoxy Coated			Pound	5,320
Furnishing Steel Piles HP10x42			Foot	308
Driving Piles			Foot	308
Test Pile Steel HP10x42			Each	1
Pile Shoes			Each	8

Bars indicated thus 15 x 2-#5 etc. indicates 15 lines of bars with 2 lengths per line.

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 022-3126
SHEET NO. 21 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	55
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

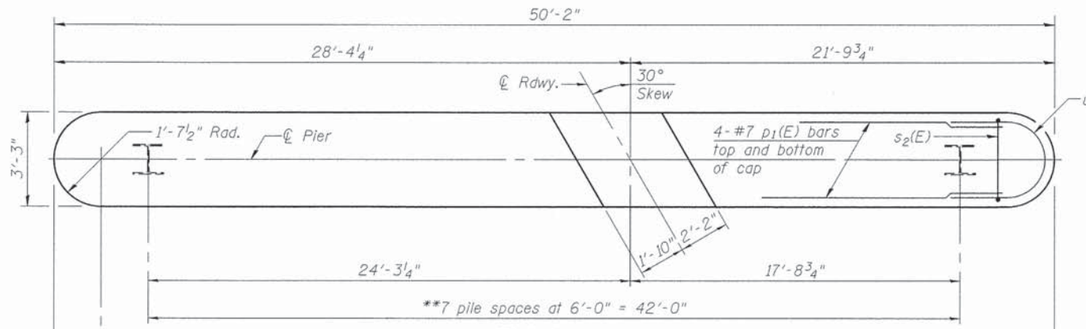
PLOT DATE = 8/6/2014
FILE NAME = X:\P\133-2379-A808.Williams.Road\CADD\S\Sheets\Williams 21 - Pier 1.dgn
USER NAME = marturi

Notes:
For details of piles, see sheet 23 of 24.

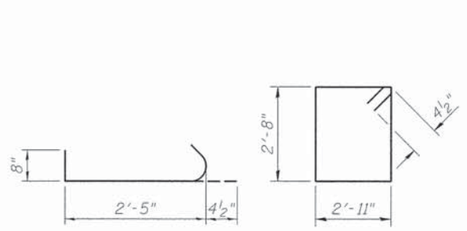
** Record drawings of the existing structure were unavailable at the time of design, therefore the locations of existing piles are unknown. The number and spacing of the proposed piles may need to be adjusted within the following limits in order to miss the existing batter piles.

Pile Spacing: 3'-0" Min. to 8'-0" Max.
Number of Piles: 8 Min.

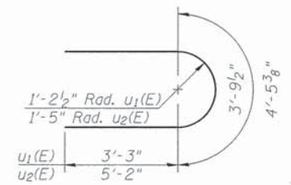
Upon removal of the existing North pier, the Contractor shall examine the existing pile layout and determine the exact number and spacing of proposed piles for the approval of the Engineer. Upon the Engineer's approval, the Test Pile may be driven and the remainder of the piles may be ordered.



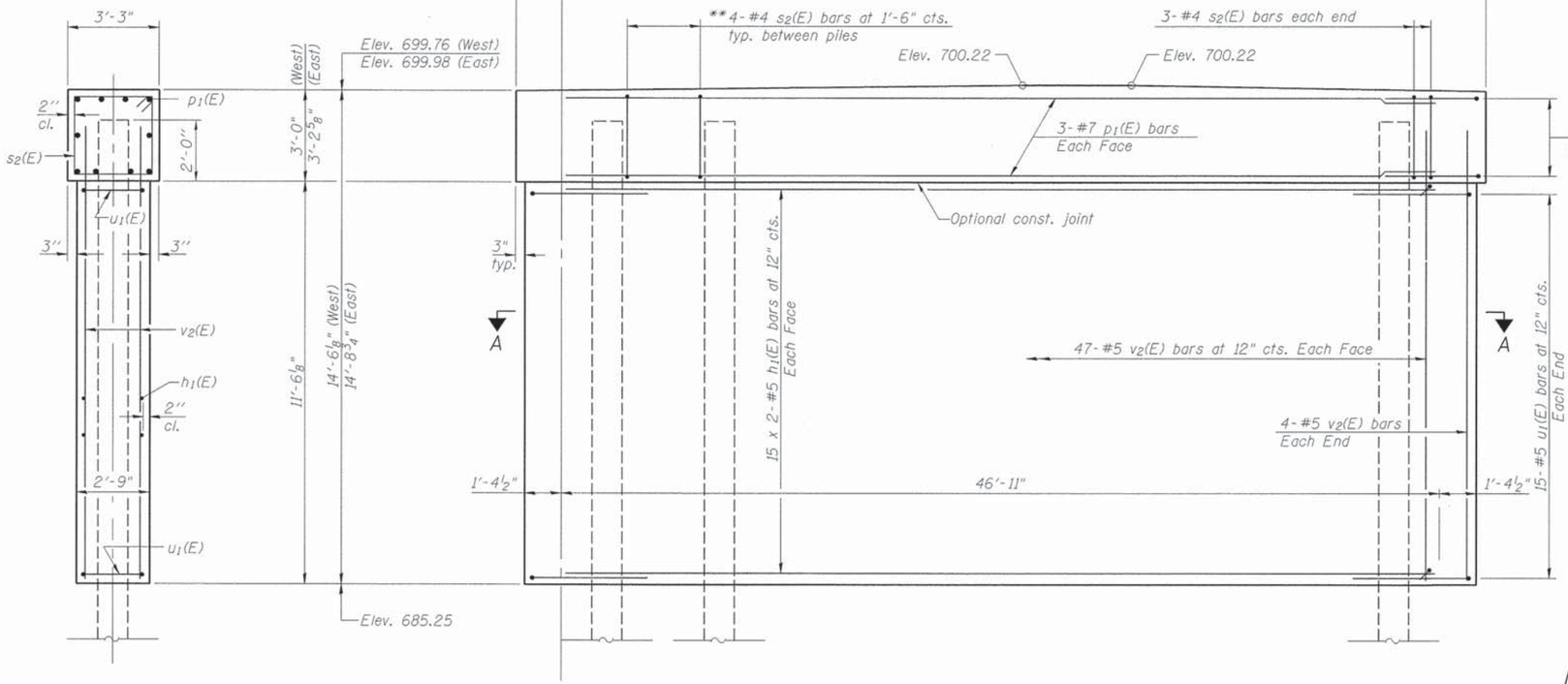
TOP PLAN



BAR $s_3(E)$ BAR $s_2(E)$



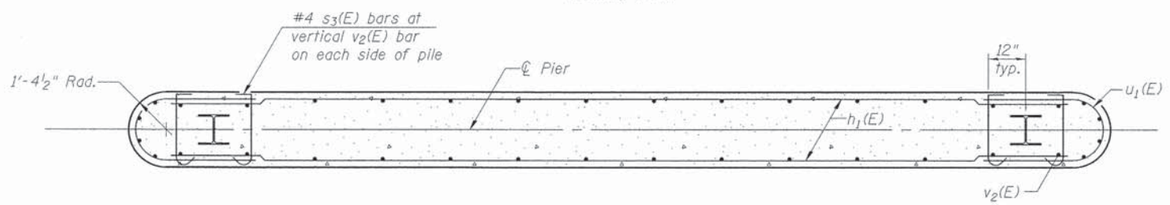
BARS $u_1(E)$ & $u_2(E)$



ELEVATION
(Looking North)

END VIEW

PILE DATA
Type: HP10x42 with pile shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 167 kips
Est. Length: 43 ft
No. Production Piles: **7
No. Test Piles: 1



SECTION A-A

MINIMUM BAR LAP
#5 bar = 3'-3"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	60	#5	25'-1"	—
$p_1(E)$	10	#7	46'-11"	—
$s_2(E)$	34	#4	11'-11"	□
$s_3(E)$	240	#4	3'-6"	⊔
$u_1(E)$	30	#5	10'-4"	⊃
$u_2(E)$	6	#7	14'-10"	⊃
$v_2(E)$	102	#5	13'-6"	—
Cofferdam Excavation		Cu. Yd.	123	
Cofferdam (Type 1) (Location - 2)		Each	1	
Concrete Structures		Cu. Yd.	77.5	
Reinforcement Bars, Epoxy Coated		Pound	5,320	
Furnishing Steel Piles HP10x42		Foot	301	
Driving Piles		Foot	301	
Test Pile Steel HP10x42		Each	1	
Pile Shoes		Each	8	

Bars indicated thus 15 x 2-#5 etc. indicates 15 lines of bars with 2 lengths per line.

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2
STRUCTURE NO. 022-3126
SHEET NO. 22 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	56
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 8/6/2014
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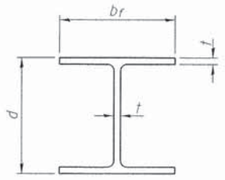
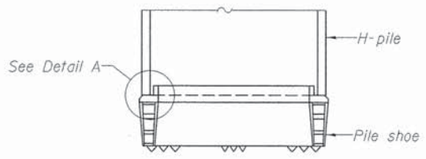
USER NAME = martinl

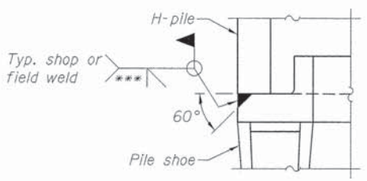


STEEL PILE TABLE

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

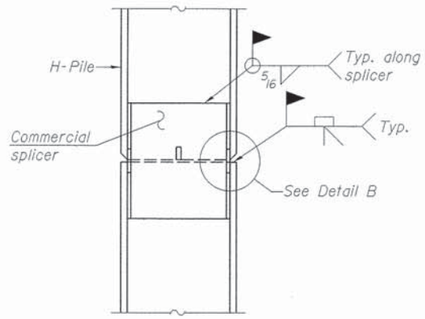


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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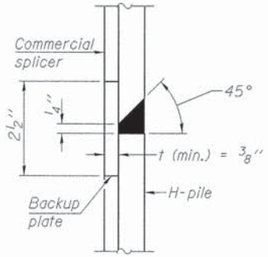
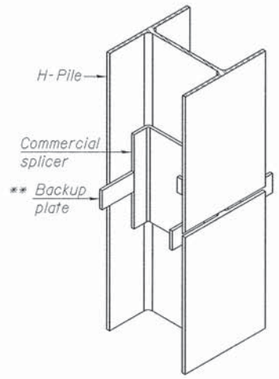
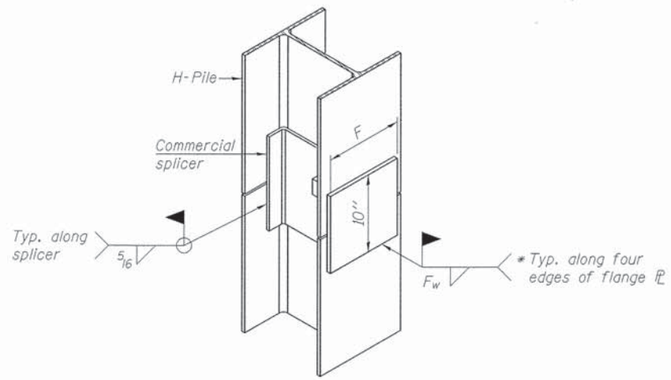


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



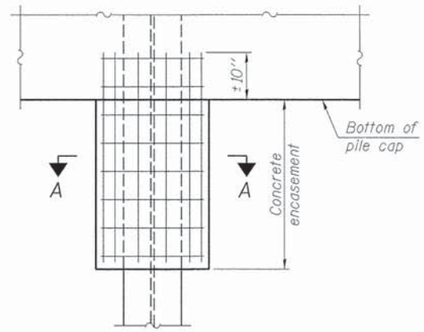
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

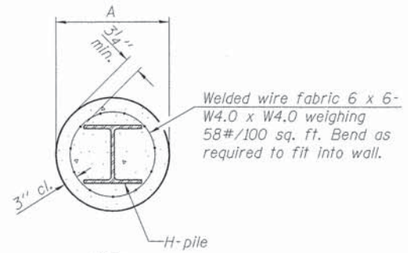
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



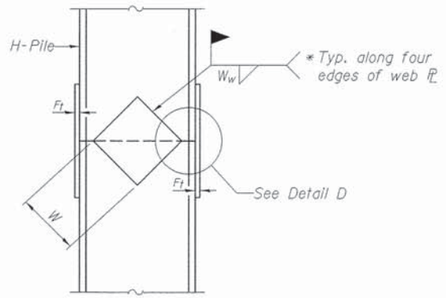
ELEVATION



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

SECTION A-A

PILE ENCASEMENT



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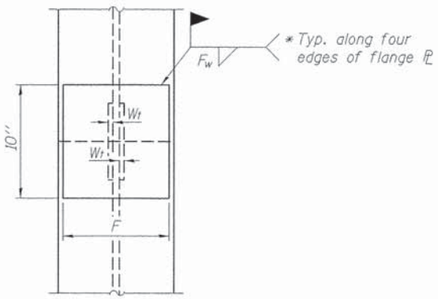
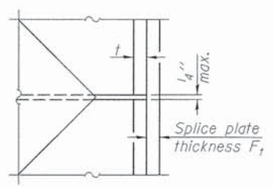


END VIEW



DETAIL D

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

WELDED PLATE FIELD SPLICE

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

F-HP 1-27-12

RS&H

DESIGNED - LM	REVISED -	
CHECKED - DSB	REVISED -	
DRAWN - LM	REVISED -	
CHECKED - DSB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 022-3126
SHEET NO. 23 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	57
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

PLOT DATE = 8/6/2014
FILE NAME = X:\PW\13-2379-B00.Williams_Road\C600\S\Sheets\Williams 23 - HP Pile Details.dgn
USER NAME = mertinl

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 2

ROUTE _____ DESCRIPTION Bridge Replacement Over West Branch DuPage River Date Started 1/12/10 Date Completed 1/12/10

SECT. _____ STRUCT. NO. _____ DRILLED BY TSC L-74,430

COUNTY DuPage LOCATION Williams Road S. 27 SE ¼, TWP. 39 N, RNG. 9 E

Boring No. 1 Station _____ Offset _____ ft Surface Elev. 698.00 ft

Surface Water Elev. _____ Groundwater Elev.: when drilling 680.0 Rotary Wash at Completion _____ after _____ Hrs. _____

DEPTH	BLOWS	Qu tsf	W %	DEPTH	BLOWS	Qu tsf	W %
10" Bituminous Concrete 697.20				672.50			
FILL - Brown SAND and GRAVEL, little silt, moist A-1-b 695.50	60 50/3"		8.9		8 5 7		12.8
FILL - Brown and gray CLAY, trace gravel, moist A-6/A-7-6	3 5 8	B 0.7 15%	12.1		8 7 7		11.5
690.00	2 3 6	B 1.2 15%	21.1	Firm gray SANDY LOAM, some gravel, occasional Cobbles, wet A-2-4			
	5 6 11	B 2.1 15%	13.7		8 9 11		10.2
	6 12 13	P 4.0	10.9				
Very stiff to hard gray CLAY, little gravel, moist A-6	5 8 11	B 3.6 15%	11.9		6	UNCF	12.3
	4 8 22	B 3.3 15%	13.0				
	6 10 19	B 2.5 15%	14.4	655.00 43' to 47' Dolomite: Medium Gray, Motteled Red, Green. Weathered Bedding Plane at 46'. Silty Thin Bedded, Dense.			
677.50				47' to 53' Dolomite: Medium Gray, Thick Bedded and Dense.			
Stiff gray CLAY, trace gravel, very moist to moist A-6	10 16 23	P 1.25	16.0	Run: 43' to 53' Recovery = 100% RQD = 68%			
	8 14 25	B 1.7 15%	25.9				

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

s:\DOT_BORING 74432.GPJ DOT.GDT 1/8/10

Testing Service Corporation

STRUCTURE BORING LOG

Page 2 of 2

Date Started 1/12/10 Date Completed 1/12/10

STRUCTURE NO. _____ ROUTE _____ SECTION _____ COUNTY DuPage

Boring No. 1 Station _____ Offset _____ ft Elevation 648.00 ft

DEPTH	BLOWS	Qu tsf	W %
Dolomite: Medium Gray, Motteled Red, Green.			
645.00			
End of Rock Core 53'			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

s:\DOT_BORING 74432.GPJ DOT.GDT 12/1/10

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1

ROUTE _____ DESCRIPTION Bridge Replacement Over West Branch DuPage River Date Started 12/17/09 Date Completed 12/17/09

SECT. _____ STRUCT. NO. _____ DRILLED BY TSC L-74,430

COUNTY DuPage LOCATION Williams Road (North Abutament) S. 27 SE ¼, TWP. 39 N, RNG. 9 E

Boring No. 2 Station _____ Offset _____ ft Surface Elev. 697.50 ft

Surface Water Elev. _____ Groundwater Elev.: when drilling 687.0 at Completion 690.5 after _____ Hrs. _____

DEPTH	BLOWS	Qu tsf	W %	DEPTH	BLOWS	Qu tsf	W %
7" Bituminous Concrete 696.90				Medium stiff gray CLAY LOAM, very moist A-4			
FILL - Brown and gray SAND and GRAVEL, little silt, moist A-1-b 694.50	20 14 18				5 3 3	B 0.8	10.4 14.4
FILL - Black CLAY, little gravel, trace organic, very moist A-7-6	5 3 5	P 1.25	18.1	669.50	5 5 10		10.6
692.00							
FILL - Black clayey SAND and GRAVEL, trace organic, very moist A-2-4	4 2 4		26.7	Firm gray SANDY LOAM, little gravel, very moist A-4			
689.50							
Soft black CLAY (Topsoil), very moist A-7-6 LOI = 8.7%	1 2 2	B 0.4	78.4		6 6 6		10.1
687.00							
Firm gray SAND and GRAVEL, occasional Cobbles, wet to saturated A-1-a	8 8 16		8.4	660.50			
684.50							
	13 14 34	B 3.6	11.2	Medium stiff gray CLAY LOAM, very moist A-4	8 10 16	B 0.9	11.4
Very stiff gray CLAY, trace gravel, moist A-6	7 10 15	B 2.8	14.5	656.50			
				End of Boring at 41'			
	8 10 13	P 2.6	19.9		100/4"		
677.00							
Loose gray SANDY LOAM, little gravel, very moist A-4 LL/PL/PI=14/9/5	1 2 3		12.2				
672.50	1 2 2		12.9		100/3"		

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

s:\DOT_BORING 74432.GPJ DOT.GDT 1/8/10

USER NAME = mar-tun1

PLOT DATE = 8/6/2014
FILE NAME = X:\P\113-2379-000-Williams,Road\CAD\S\Sheets\Williams 24 - Soil Borings.dgn

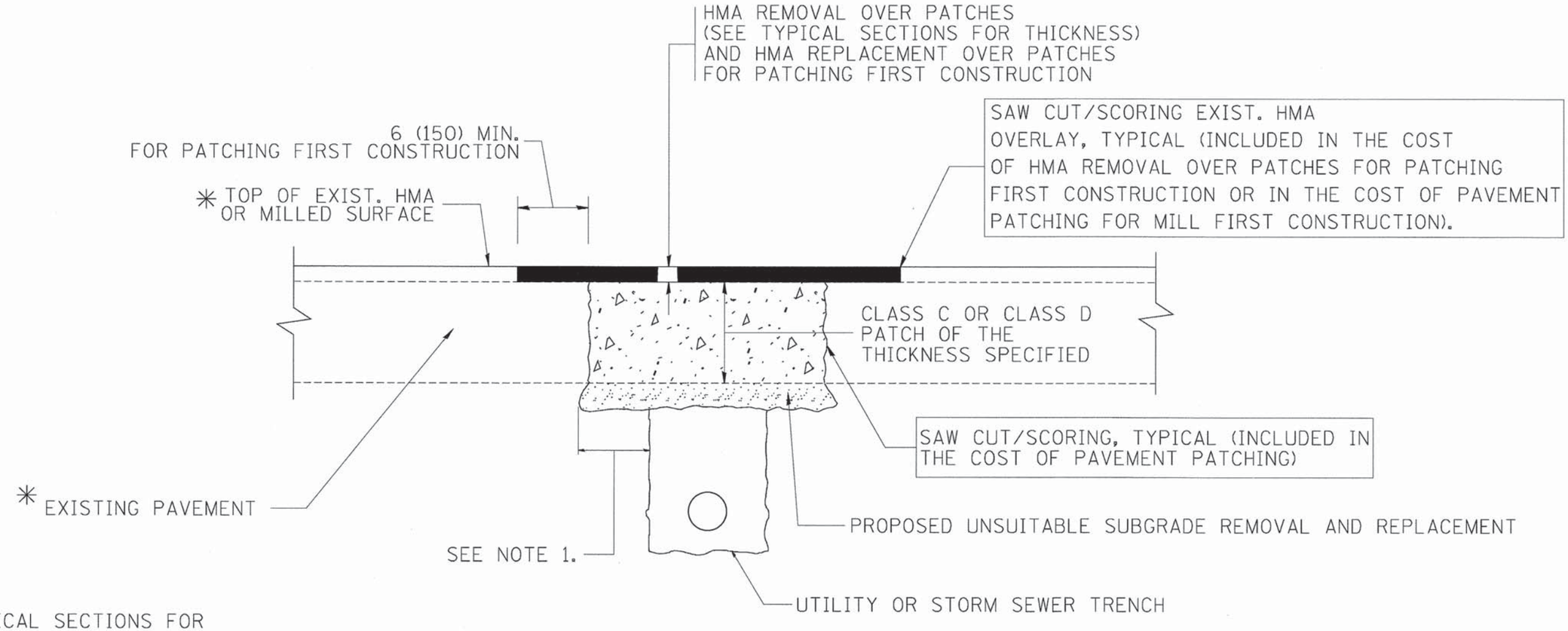
RS&H

	DESIGNED - LM	REVISED -
	CHECKED - DSB	REVISED -
	DRAWN - LM	REVISED -
	CHECKED - DSB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 022-3126
SHEET NO. 24 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	58
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS	FED. AID PROJECT BRM-9003(638)		



* 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 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

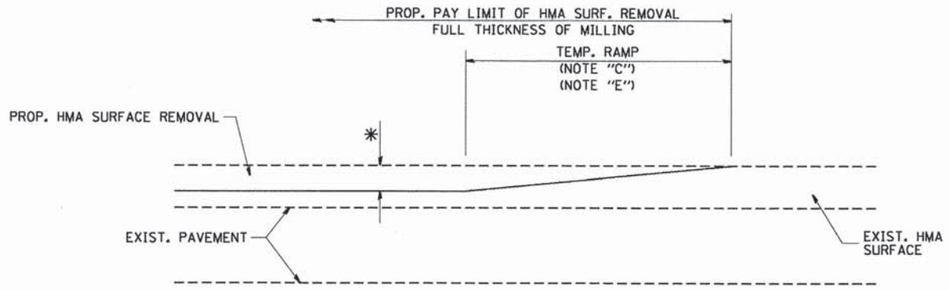
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	59
	BD400-04 (BD-22)	CONTRACT NO. 63761		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

Plotted:10/16/2012 10:58:10 PM By:JSchmidt

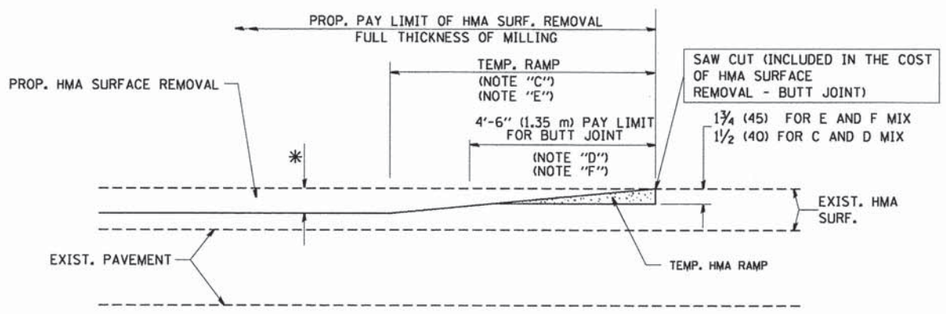
Path: N:\SDSKPro\WO0801-Micro\Dgn\Dgn Final Eng\WO0801-Cvr.dgn



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

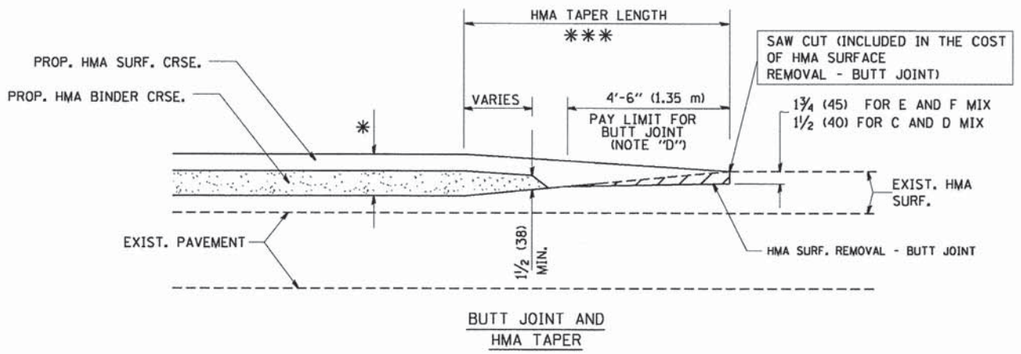


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

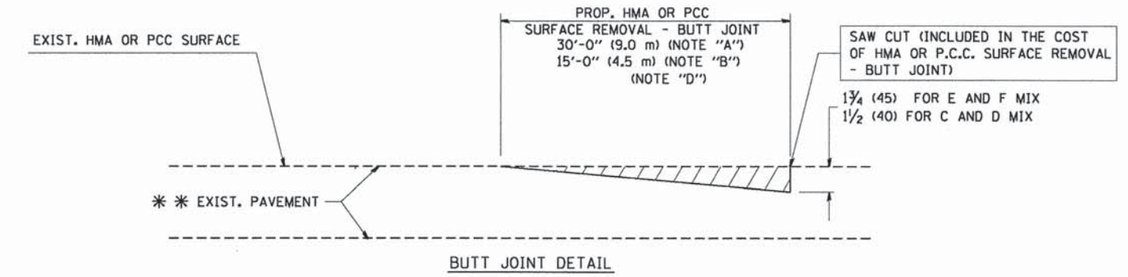
OPTION 2

TYPICAL TEMPORARY RAMP

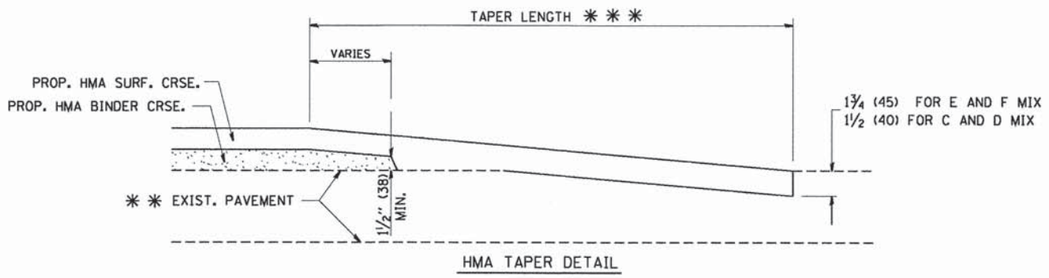


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

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

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

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

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

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

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

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

BASIS OF PAYMENT:

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

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

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	
		DRAWN -	REVISED - A. ABBAS 03-21-97	
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01	
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	60
	BD400-05 BD32	CONTRACT NO. 63761		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

Plotted:10/16/2012 05:53 PM By:Scheidt

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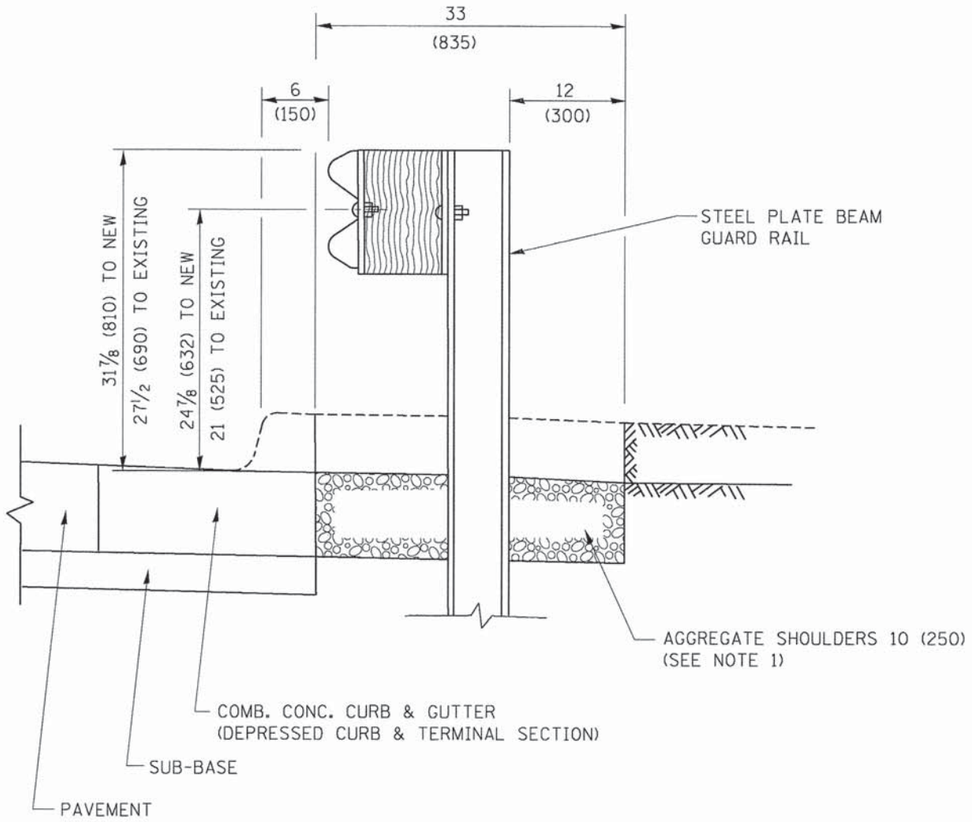


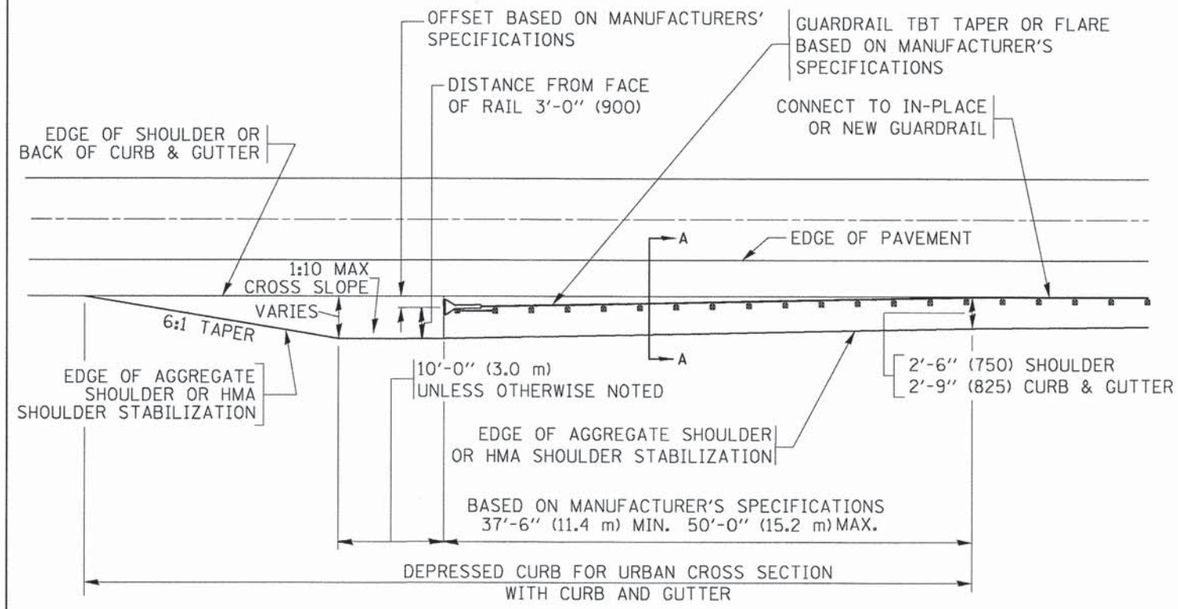
SECTION A-A

NOTES:

1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER

[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

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

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		DRAWN -	REVISED - R. BORO 12-08-2008
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED - R. BORO 09-14-2009
	PLOT DATE = 9/4/2012	DATE - 09-22-90	REVISED - R. BORO 08-06-2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	61
	BD600-10 (BD 34)	CONTRACT NO. 63761		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

Plotted:10/16/2012 2:00:47 PM By:JSchmidt

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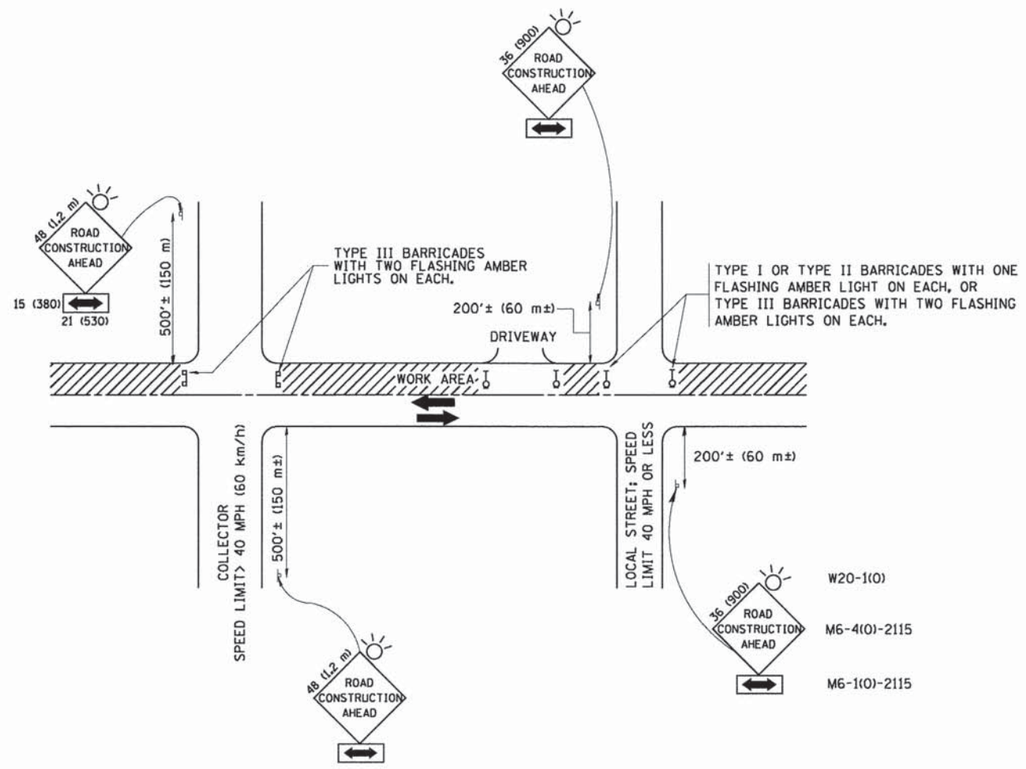

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

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

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

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

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

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

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

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

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

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

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

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

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

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

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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	62
	TC-10	CONTRACT NO. 63761		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

Plotted:10/16/2012 20:35 PM By:JSchmidt

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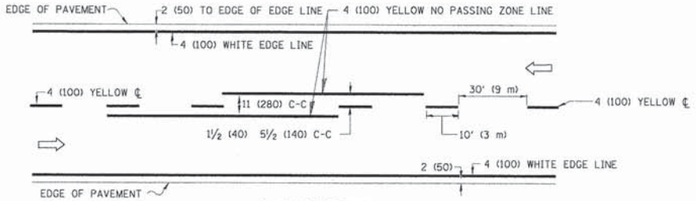
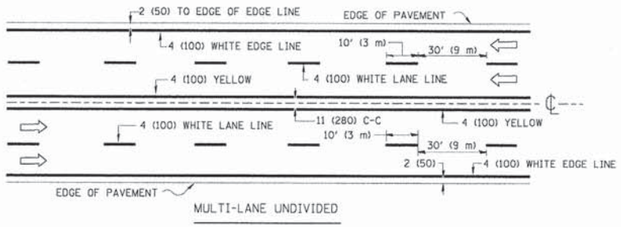
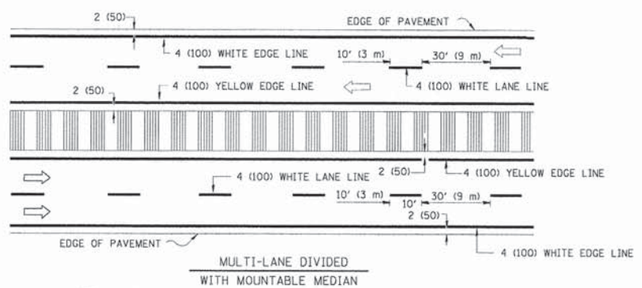


2-LANE ROADWAY



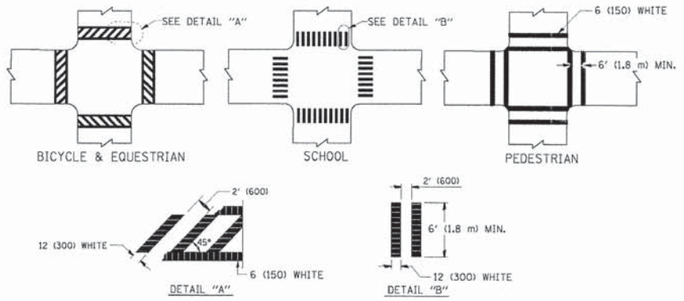
MULTI-LANE UNDIVIDED



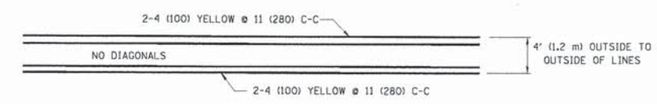
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

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

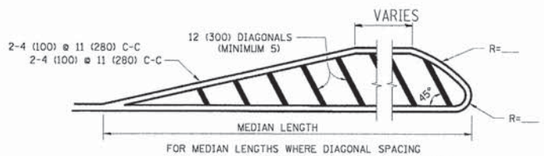
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



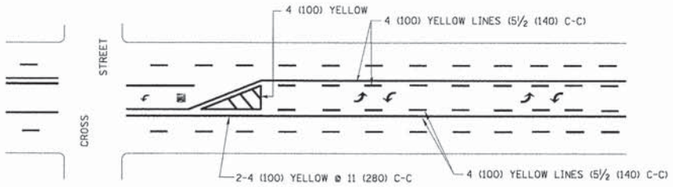
4' (1.2 m) WIDE MEDIANS ONLY



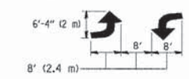
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

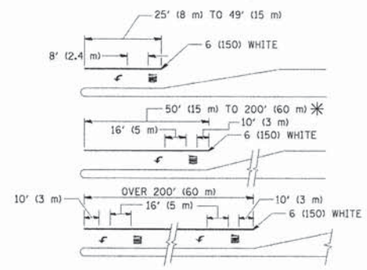


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

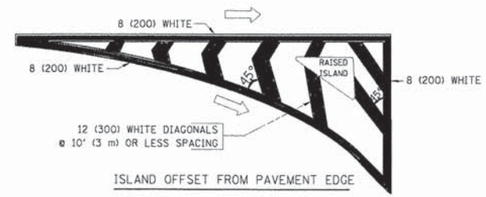


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

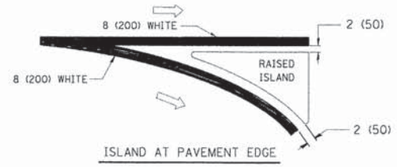
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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

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

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

Plotted:10/16/2012 2:02:18 PM By:JSchmidt

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		DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	63
	TC-13	CONTRACT NO. 63761		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT BRM-9003(638)		

Prin. Ray(WV0661-Mem\Dgn\Dgn Final Ray(WV0661-Cvr.dgn

ROUTE MARKERS

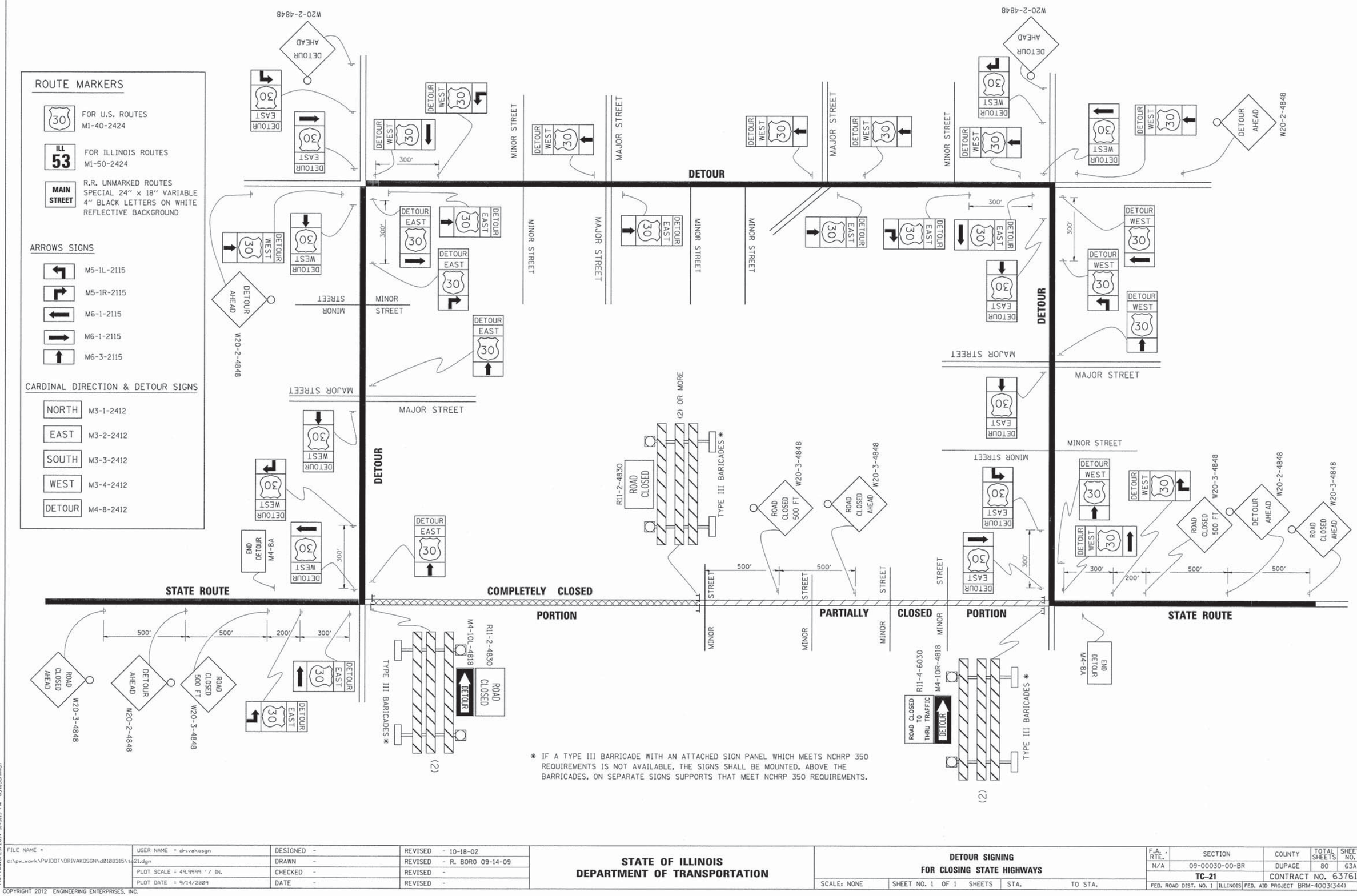
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

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

CARDINAL DIRECTION & DETOUR SIGNS

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



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	PLOT DATE = 9/14/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	63A
	TC-21	CONTRACT NO. 63761		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT BRM-4003(344)		

Plotted: 8/29/2014 3:45:19 PM By: JSchmidt

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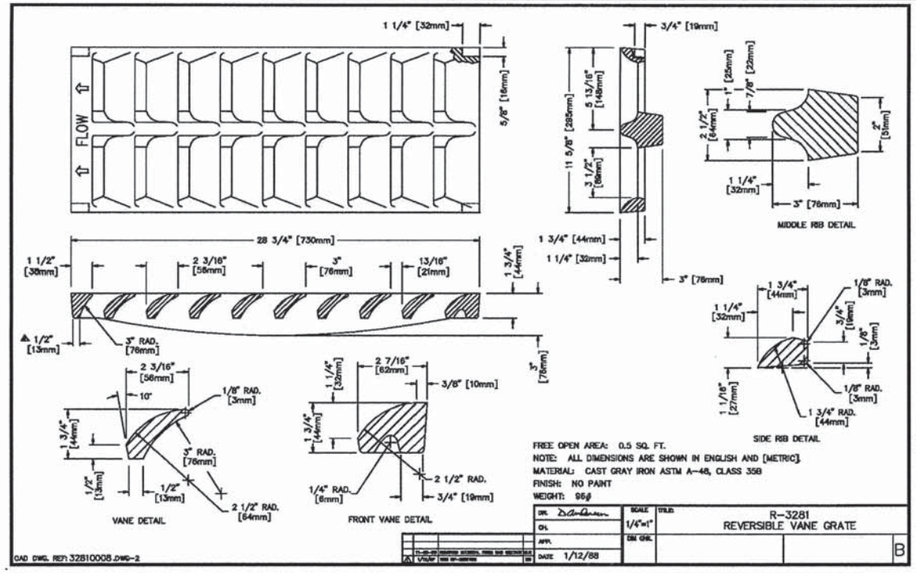
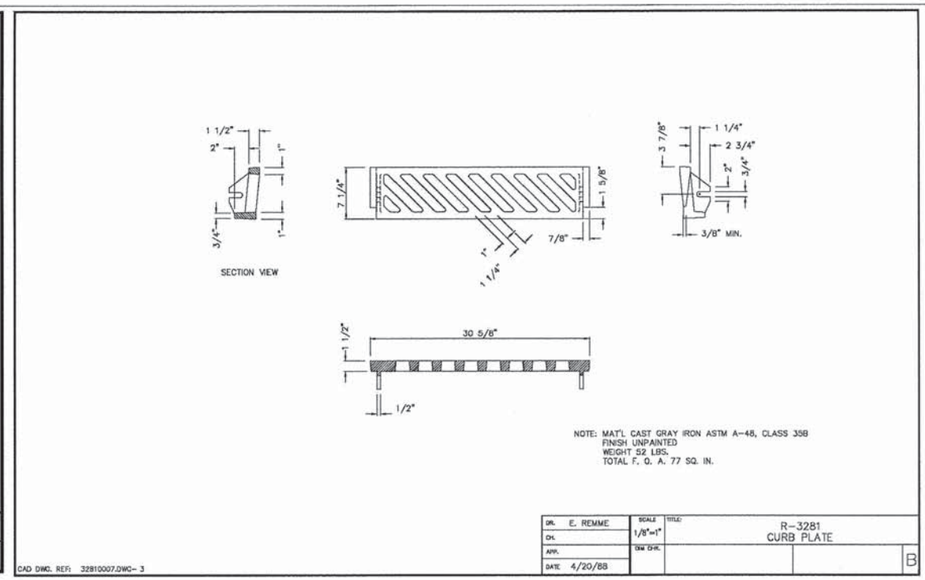
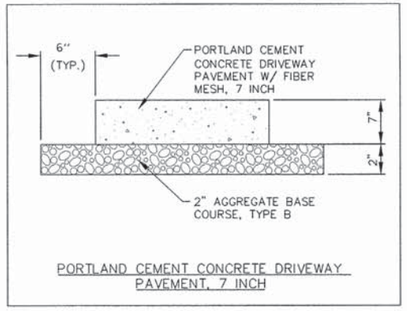
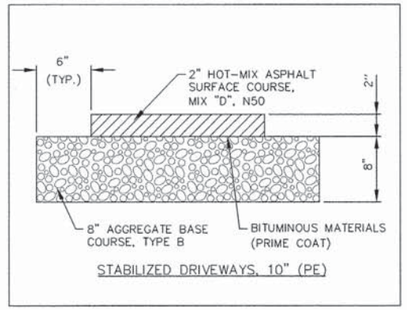


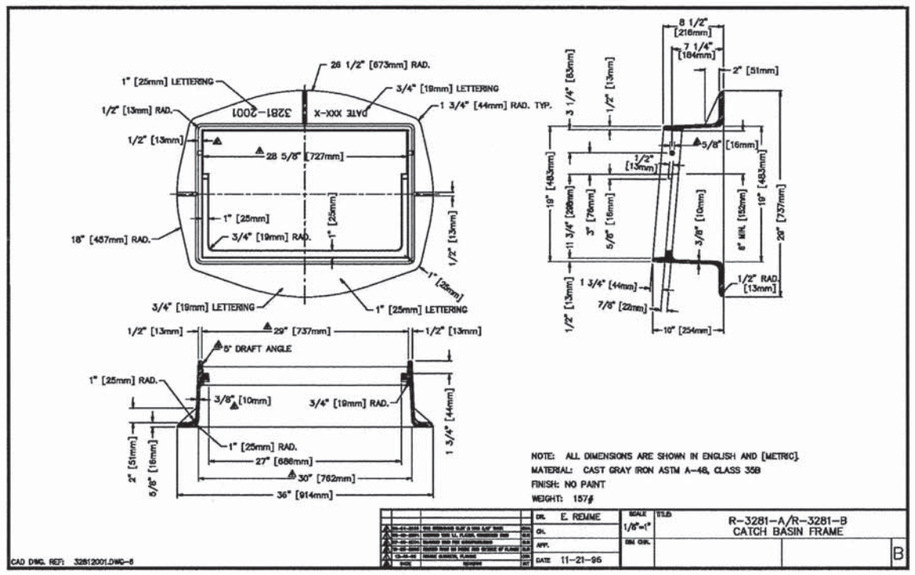




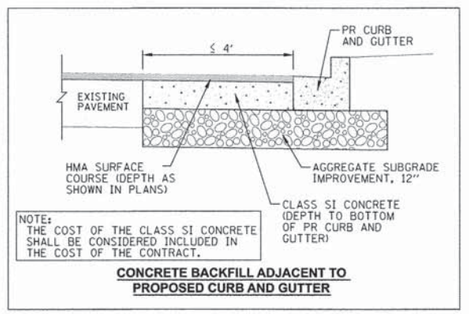
PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH



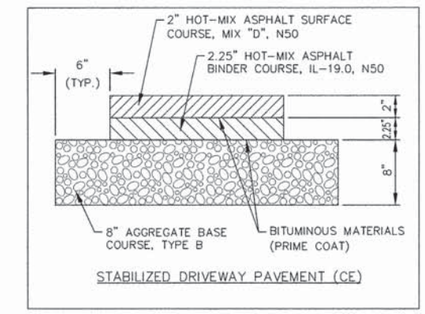
STABILIZED DRIVEWAYS, 10" (PE)



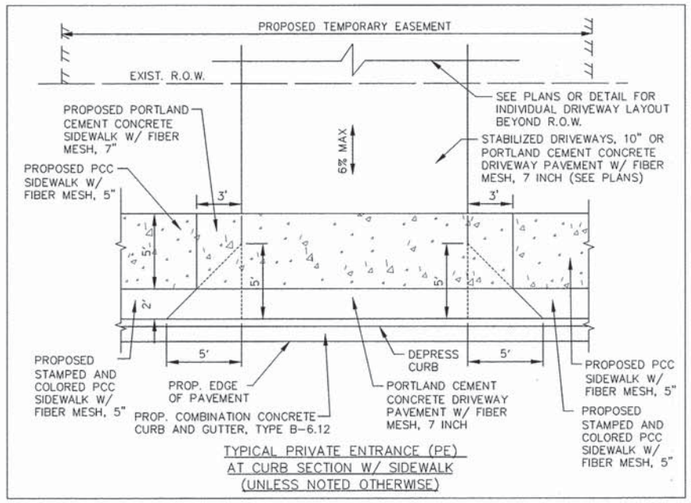
DETAIL FOR SPECIAL FRAME AND GRATE



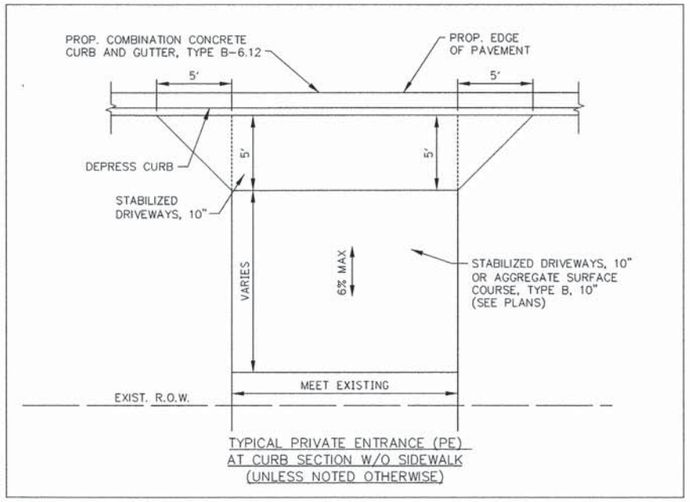
CONCRETE BACKFILL ADJACENT TO PROPOSED CURB AND GUTTER



STABILIZED DRIVEWAY PAVEMENT (CE)



TYPICAL PRIVATE ENTRANCE (PE) AT CURB SECTION W/ SIDEWALK (UNLESS NOTED OTHERWISE)



TYPICAL PRIVATE ENTRANCE (PE) AT CURB SECTION W/O SIDEWALK (UNLESS NOTED OTHERWISE)

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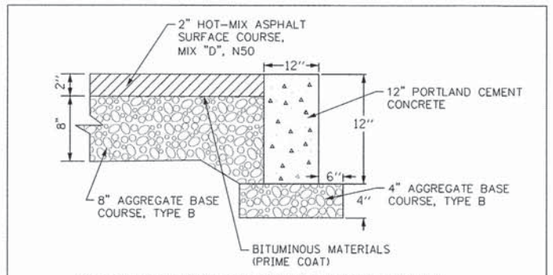
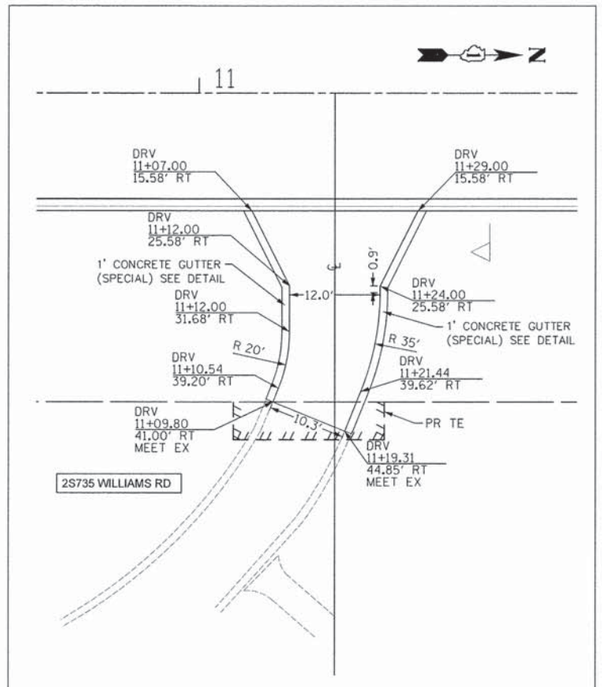
Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	CITY OF WARRENVILLE 3S258 MANNING AVENUE WARRENVILLE, IL 60555	DESIGNED - TVW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT SPECIAL DETAILS
		DRAWN - JPS	REVISED -		
		CHECKED - JRL	REVISED -		
		DATE - 8/23/2012	REVISED -		SCALE: N.T.S. | SHEET NO. 1 OF 7 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	64
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

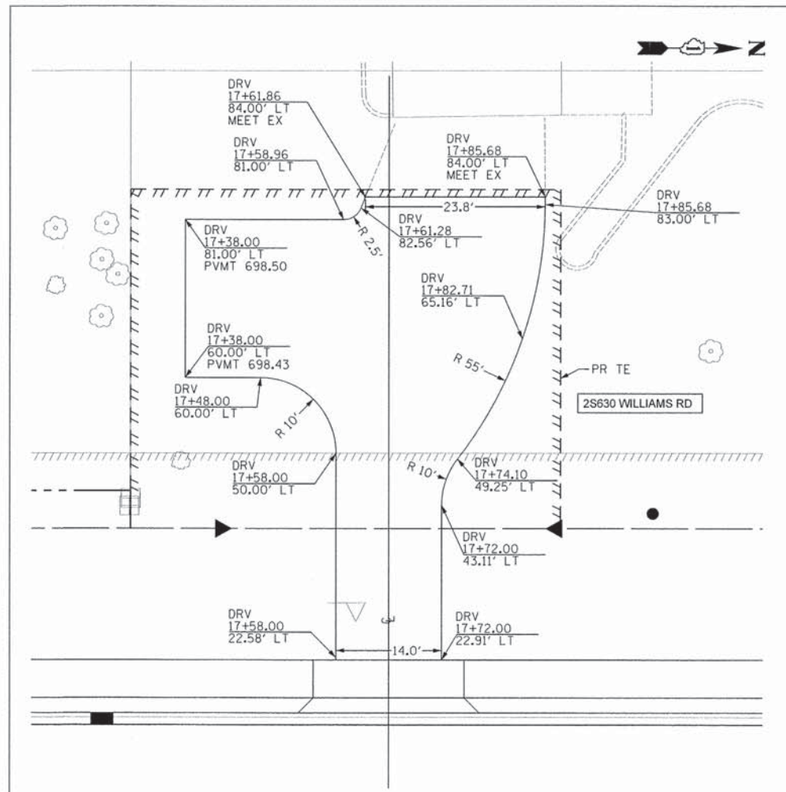


NOTE: THE ITEM CONCRETE GUTTER (SPECIAL) SHALL INCLUDE THE COST OF THE 12" PCC AND 4" AGGREGATE

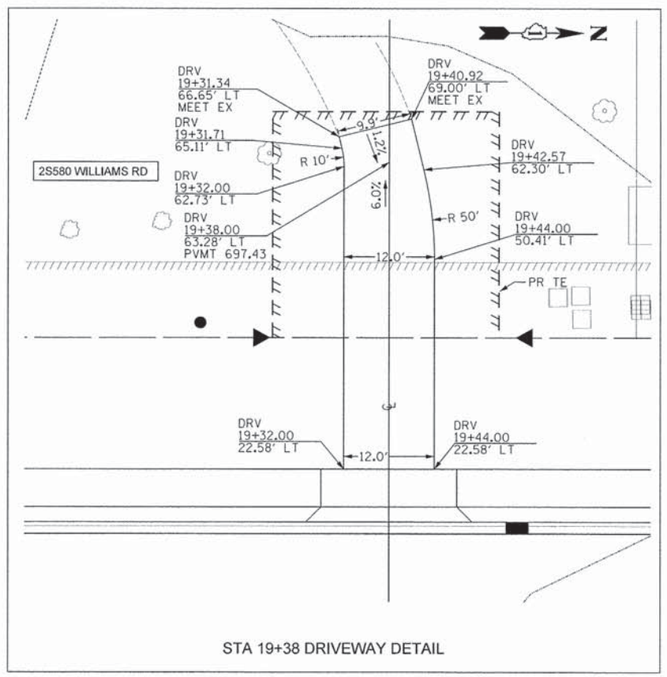
CONCRETE GUTTER (SPECIAL) DETAIL



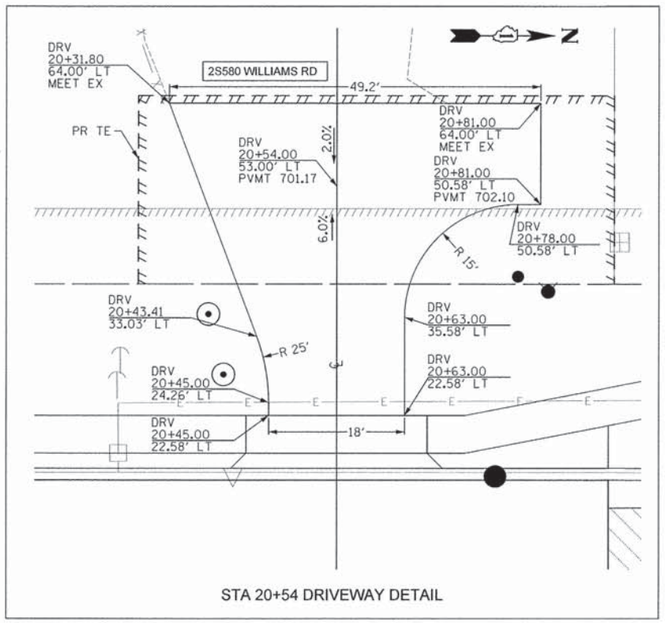
STA 11+18 DRIVEWAY DETAIL



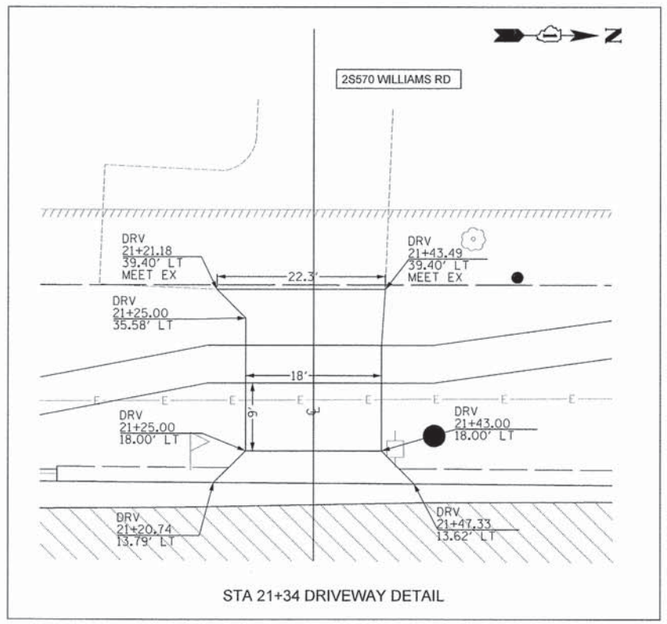
STA 17+65 DRIVEWAY DETAIL



STA 19+38 DRIVEWAY DETAIL



STA 20+54 DRIVEWAY DETAIL



STA 21+34 DRIVEWAY DETAIL

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

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CHECKED - JRL	REVISED - JPS 01/28/13
DATE - 8/23/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SPECIAL DETAILS

SCALE: 1"=10' | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	65
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

Plotted: 8/14/2014 9:08:01 AM By: tvanvleet
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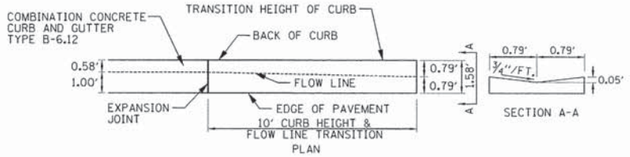
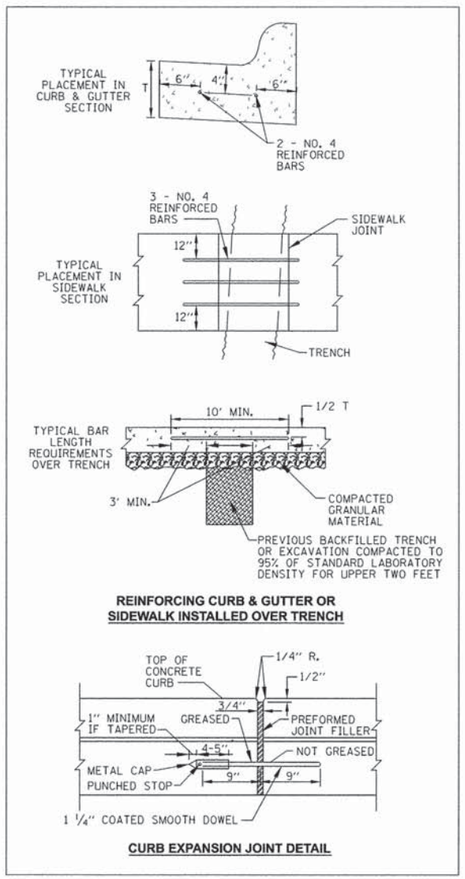


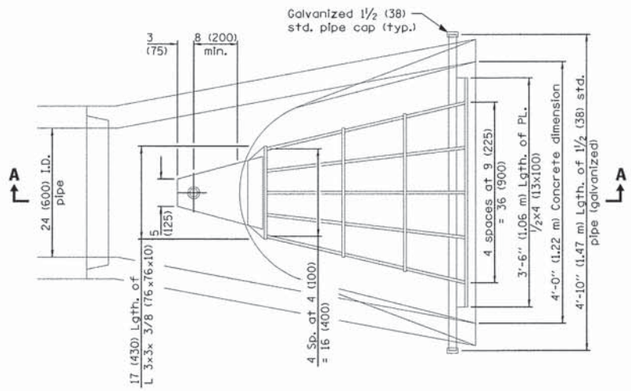
NOTE:
CURB INLETS/OUTLETS SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

CURB INLET & OUTLET DETAIL
NOT TO SCALE

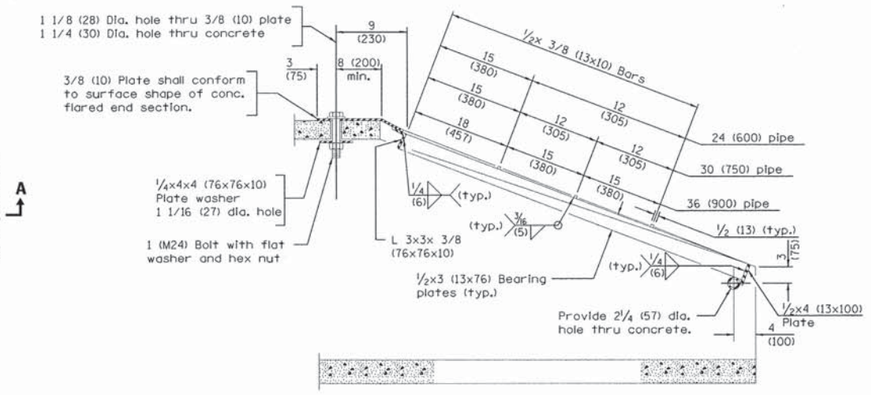


REINFORCING CURB & GUTTER OR SIDEWALK INSTALLED OVER TRENCH

CURB EXPANSION JOINT DETAIL



PLAN
Quantity of steel = 150 lbs. (68 kg)



SECTION A-A

NOTES:

Grating for 15" diameter concrete flared end section similar

Approximate quantity of steel shown includes total quantity of grating, bolts, nuts, washers and steel pipe.

Holes in the precast concrete flared end sections shall be cored to the diameters noted. If cone-out on the other end of the hole occurs, the hole shall be filled with grout to correct the diameter of the hole.

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

GRATING FOR CONCRETE FLARED END SECTION

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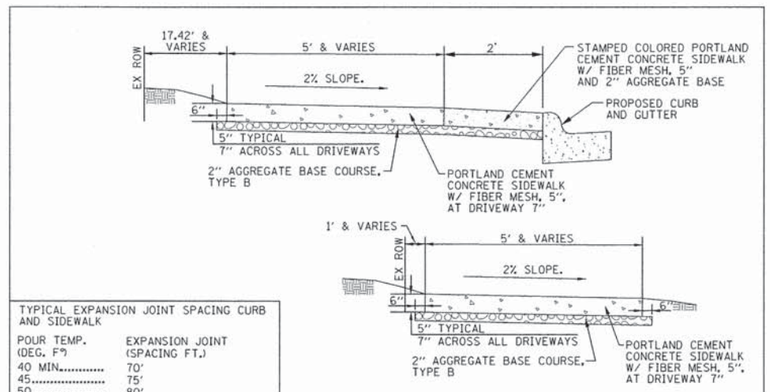
	DATE: 10/12/12	EE-ST	SR-10A	REVISED:



TYPICAL EXPANSION JOINT SPACING CURB AND SIDEWALK

POUR TEMP. (DEG. F°)	EXPANSION JOINT (SPACING FT.)
40 MIN.	70'
45	75'
50	80'
55	90'
60	95'
65	105'
70	115'
75	125'
80	145'
85	160'
90 MAX.	190'

TYPICAL SIDEWALK SECTIONS

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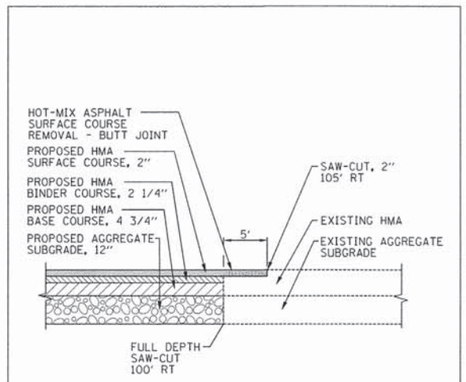
	DATE: 3/23/12	WV-RD	13	REVISED: 7/18/12



MORRIS COURT- PAVEMENT SECTION AND BUTT JOINT DETAIL

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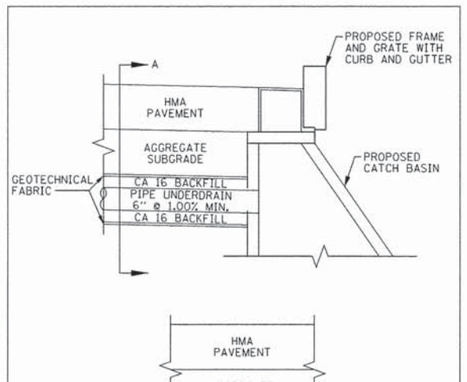
	DATE: 6/12/97	EE-PV	PS-12#	REVISED: 7/18/12



SECTION A-A

PIPE UNDERDRAIN, 6" DETAIL

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	DATE: 3/23/12	WV-ST	14	REVISED:

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SPECIAL DETAILS

SCALE: N.T.S. | SHEET NO. 3 OF 7 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	66
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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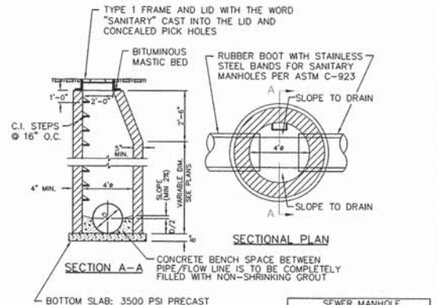

SEWER MANHOLE	
DIA. OF SEWER	INSIDE DIA. OF MANHOLE
18" & UNDER	4'-0"

1. AN EXTERNAL CHIMNEY SEAL SHALL BE PROVIDED
2. ALL SANITARY MANHOLE COMPONENTS SHALL BE SET IN BUTYL ROPE JOINT SEALANT, INCLUDING ALL COMPONENT PARTS, BOTTOMS, BARRELS, ADJUSTING RINGS, AND CASTINGS. THE OUTSIDE JOINTS SHALL BE PROVIDED WITH A 4" WIDE BUTYL-RESIN SEALANT COMPLETELY AROUND EACH JOINT WITH VERTICAL LAP OF 1" AND HORIZONTAL LAP OF 6"
3. A MAXIMUM OF 8" OF ADJUSTING RINGS SHALL BE USED. NO MORE THAN 2 ADJUSTING RINGS ARE ALLOWED.

TYPICAL MANHOLE, SANITARY - 4' DIA.

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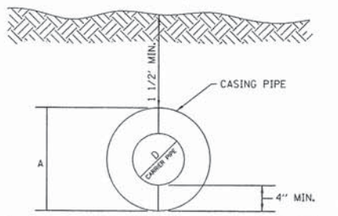
	DATE: 2/17/94			REVISED: 7/18/12



STEEL CASING PIPE DIA. AND WALL THICKNESS SHALL NOT BE LESS THAN THE FOLLOWING:

CARRIER PIPE NOM. DIA.	MIN. CASING PIPE DIA. (O.D.)	WALL THICKNESS
33" - 36"	54"	0.719"
30"	48"	0.625"
27"	42"	0.562"
24"	36"	0.469"
20" - 21"	36"	0.469"
18"	30"	0.406"
15 - 16"	30"	0.406"
12"	24"	0.312"
10"	22"	0.312"
8"	20"	0.281"
6"	18"	0.250"

GENERAL NOTES

BORINGS SHALL BE ACCOMPLISHED WITH AN AUGER AND CASING PIPE. THE DIAMETER OF THE AUGER SHALL NOT EXCEED THE OUTSIDE DIAMETER OF THE CASING PIPE BY MORE THAN ONE INCH.

BORINGS SHALL BE ACCOMPLISHED FROM PITS USING SHORING. THE SHORING SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED AND MAINTAINED SO THAT IS WILL SAFELY SUPPORT ALL VERTICAL AND LATERAL LOADS THAT MAY BE IMPOSED UPON IT DURING THE BORING OPERATION. ALL SHAFTS AND JACKING PITS SHALL CONFORM WITH APPLICABLE OSHA EXCAVATION, TRENCHING, AND SHORING STANDARDS.

PITS FOR BORING SHALL BE EXCAVATED NO MORE THAN 48 HOURS IN ADVANCE OF BORING AND BACKFILLED WITHIN 48 HOURS AFTER BORING OPERATIONS ARE COMPLETED. WHILE PITS ARE OPEN, THEY SHALL BE CLEARLY MARKED AND PROTECTED AS INDICATED IN THE SPECIAL PROVISIONS.

CASING SPACERS SHALL BE USED TO CENTER STORM SEWER IN CASING PIPE. (SPACED EVERY 10' MIN.)

CASING END SEALS SHALL BE USED TO LOOSELY SEAL THE ENDS OF THE CASING.

STEEL CASING PIPE SHALL HAVE A MINIMUM YIELD STRENGTH OF 35,000 PSI WITH WELDED JOINTS.

STEEL CASING PIPE AUGURED AND JACKED 30"

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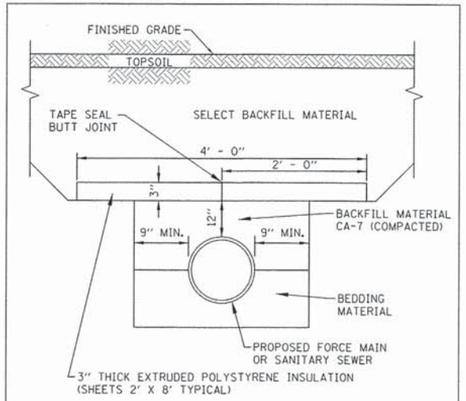
	DATE: 7/18/12			REVISED:



NOTE:
HEAVY EQUIPMENT AND LOADED TRUCKS SHALL NOT BE ALLOWED TO CROSS INSULATION AREA UNTIL AFTER PLACEMENT OF BACKFILL MATERIAL.

INSULATION AT FORCE MAIN AND SANITARY SEWER

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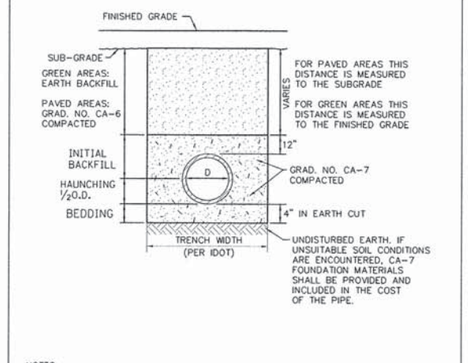
	DATE: 7/18/12			REVISED:



NOTES:
1. ANY FLARE OR EXCAVATION BEYOND THE LIMITS SPECIFIED SHALL BE BACKFILLED ACCORDINGLY AT THE CONTRACTOR'S EXPENSE.
2. PAVEMENT LIMITS SHALL BE DEFINED AS 2' BEYOND CURB AND GUTTERS, PAVING, BIKE PATHS, SIDEWALKS, AGGREGATE SHOULDERS AND ANY OTHER PAVED AREAS.
3. TRENCH BACKFILL PAY LIMITS SHALL BE IN ACCORDANCE WITH THE IDOT TRENCH BACKFILL TABLE.
4. PIPE SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY, OR AS DIRECTED BY THE ENGINEER, EXCEPT AS NOTED IN THIS DETAIL.
5. TRENCH BACKFILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED IN PLACE TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY THE MODIFIED PROCTOR TEST.

SANITARY SEWER FORCE MAIN (PVC), AND STORM SEWER (PVC) TRENCH SECTION

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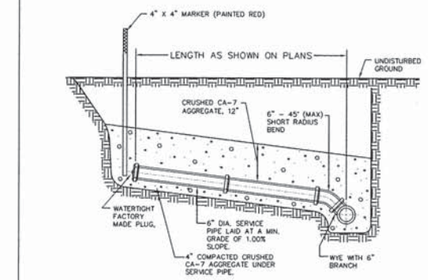
	DATE: 7/18/12			REVISED:



(SECTIONAL ELEVATION)

NOTES:

1. THIS ITEM SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SANITARY SEWER SERVICE OF SIZE AND TYPE SPECIFIED.
2. SANITARY SEWER SERVICE SHALL BE PVC SDR26 ASTM D-2241 (WATER MAIN EQUIVALENT PIPE)
3. WYES, BENDS, ADAPTERS AND PLUGS OF THE MATERIAL SPECIFIED SHALL BE PAID FOR AND SHALL BE INCLUDED IN THE COST OF THE SANITARY SEWER SERVICE.
4. PROVIDING AND INSTALLING TRENCH BACKFILL MATERIAL ACCORDING TO DETAILS IN THE PLANS SHALL BE SHALL BE INCLUDED IN THE COST OF THE SANITARY SEWER SERVICE.

SANITARY SERVICE SEWER

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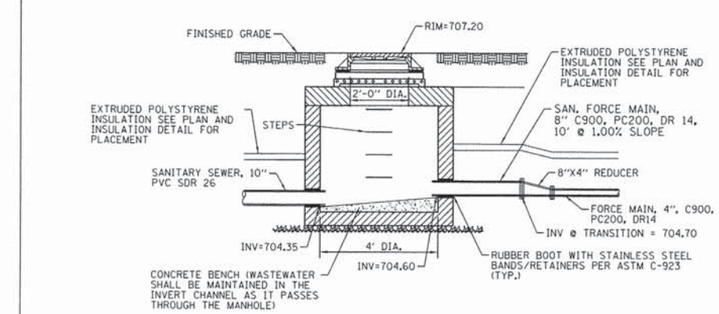
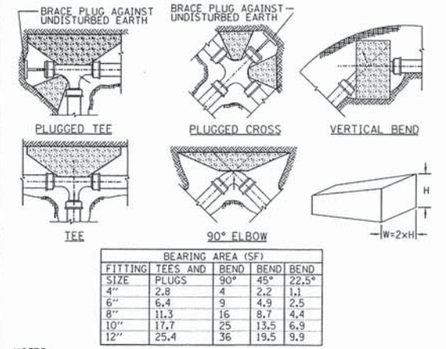
	DATE: 4/24/91			REVISED: 7/18/12



1. NO LATERALS SHALL CONNECT TO THE MANHOLE TO WHICH THE FORCE MAIN CONNECTS
2. THE DISCHARGE MANHOLE SHALL BE PROTECTED FROM CORROSION PER THE SPECIAL PROVISIONS
3. THE REDUCER, FITTINGS, AND JOINT MATERIALS TO REDUCE THE PIPE DIAMETER IS INCLUDED IN THE COST OF THE SMALLER (4") DIAMETER PIPE
4. FRAME AND LID SHALL BE TYPE 1 AND THE WORD "SANITARY" SHALL BE CAST IN THE COVER WITH CONCEALED PICK HOLES.

SANITARY MANHOLE, SPECIAL / FORCE MAIN DISCHARGE DETAIL

Engineering Enterprises, Inc. 52 Wheeler Road Sugar Grove, Illinois 60554 Phone: (630) 466-9350	SCALE: N.T.S.	FOLDER:	DRAWING NUMBER:	DRAWN BY:
	DATE: 7/18/12			REVISED:

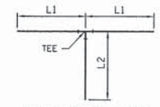


BEARING AREA (SF)				
FITTING SIZE	TEES AND PLUGS	BEND 90°	BEND 45°	BEND 22.5°
4"	2.8	4	2.2	1.1
6"	6.4	9	4.9	2.5
8"	11.3	16	8.7	4.4
10"	17.7	25	13.5	6.9
12"	25.4	36	19.5	9.9

NOTES:
1. ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH.
2. ARROWS INDICATE DIRECTION OF THRUST.
3. ALL BLOCKS TO BE 3000 P.S.I. CONCRETE.
4. ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.
5. THESE DETAILS IN NO WAY LIMITS THE LOCATION OR SIZE OF ADDITIONAL BLOCKING WHEN WARRANTED BY THE CITY OR ENGINEER
6. DEPTH FROM GROUND SURFACE TO TOP OF BLOCKING SHALL BE GREATER THAN HEIGHT OF BLOCKING.
7. ALL FITTINGS, VALVES, ETC. SHALL BE WRAPPED WITH POLYETHYLENE BEFORE CONCRETE IS PLACED.
8. WIDTH OF THE THRUST BLOCK SHOULD BE AT LEAST TWO TIMES THE HEIGHT OF THE THRUST BLOCK.
9. PRECAST BLOCKS ONLY EXCEPT AT FIRE HYDRANTS AS NOTED ON THE FIRE HYDRANT DETAIL.

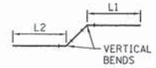
TYPICAL THRUST BLOCK INSTALLATION

Engineering Enterprises, Inc. 52 Wheeler Road Sugar Grove, Illinois 60554 Phone: (630) 466-9350	SCALE: N.T.S.	FOLDER: EE-WA	DRAWING NUMBER: MI-07	DRAWN BY: WCP
	DATE: 9/05/07			REVISED: 7/18/12



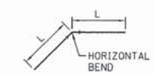
HORIZONTAL TEES

HORIZONTAL TEE	LENGTH	L
12" x 8"	L1	23'
	L2	42'
12" x 6"	L1	20'
	L2	15'



VERTICAL BENDS

WATER MAIN SIZE	VERTICAL BEND				
	LENGTH	90°	45°	22.5°	11.25°
8"	L1	N/A	31'	15'	8'
	L2	N/A	16'	8'	4'
12"	L1	N/A	43'	21'	11'
	L2	N/A	23'	11'	6'



HORIZONTAL BENDS

WATER MAIN SIZE	HORIZONTAL BEND				
	LENGTH	90°	45°	22.5°	11.25°
8"	L	23'	10'	5'	3'
12"	L	32'	13'	7'	4'

REDUCER

WATER MAIN SIZE	L
8" x 6"	31'

DEAD ENDS

WATER MAIN SIZE	L
8"	73'
12"	104'

NOTE:
1. L, L1 & L2 = RESTRAINED LENGTHS
2. MINIMUM LENGTHS OF PIPE REQUIRED TO RESTRAIN FITTINGS SHOWN.
3. LENGTHS BASED ON POLYETHYLENE WRAPPED PIPE.

WATER MAIN RESTRAINED JOINT LENGTHS FOR WILLIAMS ROAD

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	DATE: 7/18/12			REVISED:

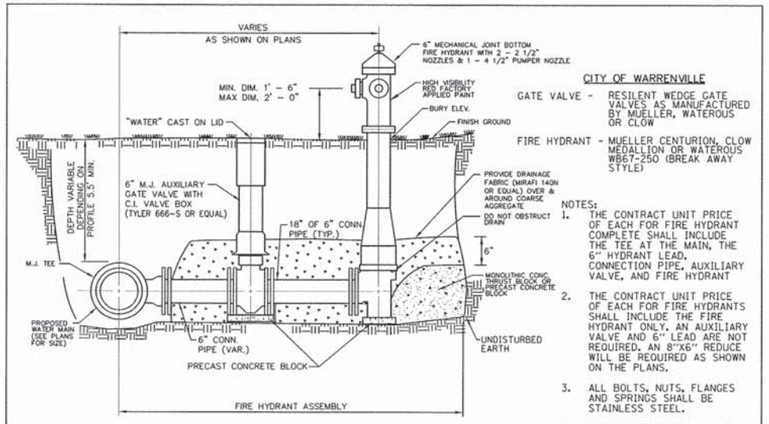
Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	CITY OF WARRENVILLE 3S258 MANNING AVENUE WARRENVILLE, IL 60555	DESIGNED - TVW	REVISED - JPS 10/17/12
		DRAWN - JPS	REVISED - JPS 11/30/12
		CHECKED - JRL	REVISED - JPS 01/28/13
		DATE - 8/23/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SPECIAL DETAILS

SCALE: N.T.S. | SHEET NO. 4 OF 7 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	67
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			



CITY OF WARRENVILLE

GATE VALVE - RESILENT WEDGE GATE VALVES AS MANUFACTURED BY MUELLER, WATEROUS OR CLOW

FIRE HYDRANT - MUELLER CENTURION, CLOW MEDALLION OR WATEROUS WB67-250 (BREAK AWAY STYLE)

NOTES:
1. THE CONTRACT UNIT PRICE OF EACH FOR FIRE HYDRANT COMPLETE SHALL INCLUDE THE TEE AT THE MAIN, THE 6" HYDRANT LEAD, CONNECTION PIPE, AUXILIARY VALVE, AND FIRE HYDRANT
2. THE CONTRACT UNIT PRICE OF EACH FOR FIRE HYDRANTS SHALL INCLUDE THE FIRE HYDRANT ONLY. AN AUXILIARY VALVE AND 6" LEAD ARE NOT REQUIRED. AN 8"X6" REDUCE WILL BE REQUIRED AS SHOWN ON THE PLANS.
3. ALL BOLTS, NUTS, FLANGES AND SPRINGS SHALL BE STAINLESS STEEL.
4. ALL HYDRANTS SHALL HAVE A BRONZE CROSS ARM / TOP PLATE.
5. VALVES AND HYDRANTS SHALL BE THE SAME MANUFACTURER, AND ONLY ONE MANUFACTURER SHALL BE USED THROUGHOUT THE PROJECT LIMITS.

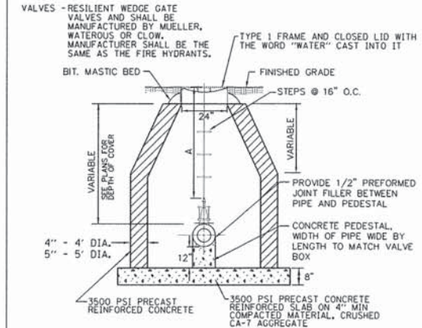
FIRE HYDRANT ASSEMBLY INSTALLATION

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (630) 466-9350

SCALE: N.T.S. | DATE: 7/18/12 | FOLDER: | DRAWING NUMBER: | DRAWN BY: | REVISED:

CITY OF WARRENVILLE

VALVES - RESILIENT WEDGE GATE VALVES AND SHALL BE MANUFACTURED BY MUELLER, WATEROUS OR CLOW. MANUFACTURER SHALL BE THE SAME AS THE FIRE HYDRANTS.

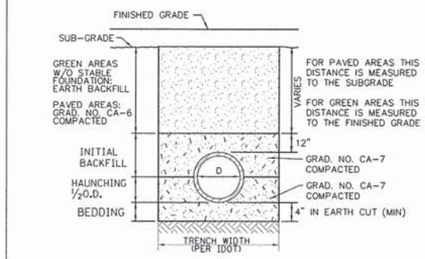


NOTE:
1. VALVE VAULT DIA. SHALL BE 48" FOR 8" AND SMALLER VALVES AND 60" FOR 10" AND LARGER VALVES
2. THE VALVE VAULT SHALL BE CONSTRUCTED SO AS TO CENTER THE VALVE OPERATING NUT UNDER THE VAULT OPENING.
3. A MAXIMUM OF 8" OF ADJUSTING RINGS SHALL BE USED. NO MORE THAN 2 ADJUSTING RINGS ARE ALLOWED.
4. A CONTINUOS LAYER OF REINFORCED NON-HARDENING BITUMINOUS MASTIC MATERIAL SHALL BE PLACED BETWEEN ALL JOINTS WITHIN THE VALVE VAULT INCLUDING AT VALVE VAULT SECTIONS AND ADJUSTING RINGS.
5. IF "A" IS GREATER THAN 6', AN EXTENSION ON THE OPERATING NUT SHALL BE PROVIDED.
6. ALL BOLTS, NUTS, SPRINGS AND WASHERS SHALL BE STAINLESS STEEL

TYPICAL VALVE VAULT DETAIL

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (630) 466-9350

SCALE: | DATE: 9/24/07 | FOLDER: | DRAWING NUMBER: | DRAWN BY: | REVISED: 7/18/12

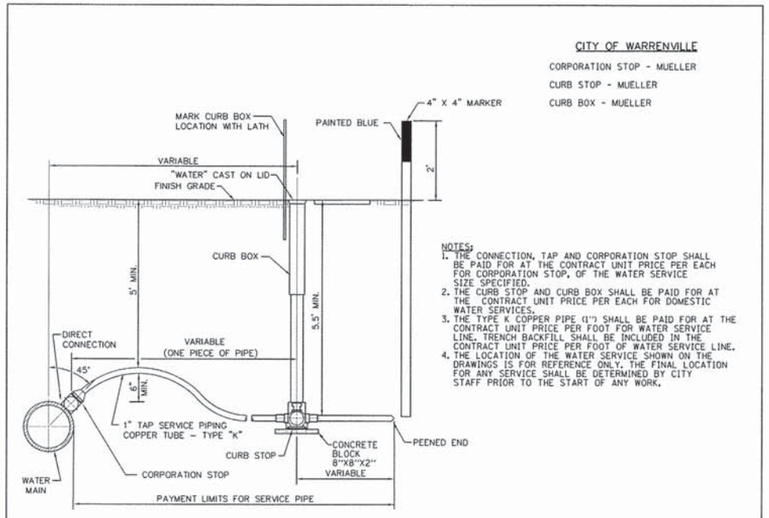


NOTES:
1. ANY FLARE OR EXCAVATION BEYOND THE LIMITS SPECIFIED SHALL BE BACKFILLED ACCORDINGLY AT THE CONTRACTOR'S EXPENSE.
2. PAVEMENT LIMITS SHALL BE DEFINED AS 2' BEYOND CURB AND GUTTERS, PAVING, BIKE PATHS, SIDEWALKS, AGGREGATE SHOULDERS AND ANY OTHER PAVED AREAS.
3. TRENCH BACKFILL PAY LIMITS SHALL BE IN ACCORDANCE WITH THE IDOT TRENCH BACKFILL TABLE.
4. PIPE SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY, OR AS DIRECTED BY THE ENGINEER, EXCEPT AS NOTED IN THIS DETAIL.
5. FINAL TRENCH BACKFILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED IN PLACE TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY THE MODIFIED PROCTOR TEST.

TRENCH SECTION FOR STORM SEWER (RCCP) AND WATER MAIN (DUCTILE IRON) FOR PAVED AREAS AND GREEN AREAS WITHOUT FIRM AND STABLE EARTH FOUNDATION

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (630) 466-9350

SCALE: N.T.S. | DATE: 7/18/12 | FOLDER: | DRAWING NUMBER: | DRAWN BY: | REVISED:



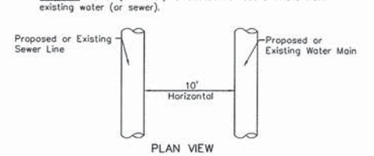
NOTES:
1. THE CONNECTION, TAP AND CORPORATION STOP SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR CORPORATION STOP, OF THE WATER SERVICE SIZE SPECIFIED.
2. THE CURB STOP AND CURB BOX SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR DOMESTIC WATER SERVICES.
3. THE TYPE K COPPER PIPE (1") SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR WATER SERVICE LINE. TRENCH BACKFILL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT OF WATER SERVICE LINE.
4. THE LOCATION OF THE WATER SERVICE SHOWN ON THE DRAWINGS IS FOR REFERENCE ONLY. THE FINAL LOCATION FOR ANY SERVICE SHALL BE DETERMINED BY CITY STAFF PRIOR TO THE START OF ANY WORK.

WATER SERVICE ACCESSORIES DETAIL

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (630) 466-9350

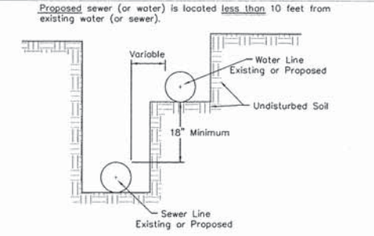
SCALE: N.T.S. | DATE: 9/21/07 | FOLDER: | DRAWING NUMBER: | DRAWN BY: | REVISED: 7/18/12

Proposed sewer (or water) is located 10 feet or more from existing water (or sewer).



PLAN VIEW

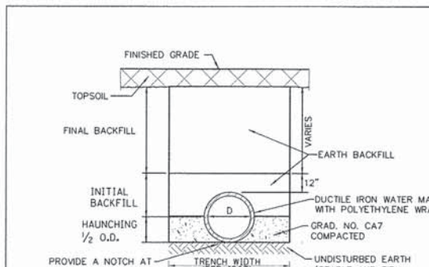
Proposed sewer (or water) is located less than 10 feet from existing water (or sewer).



WATER & SEWER SEPARATION REQUIREMENTS (HORIZONTAL)

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (630) 466-9350

SCALE: N.T.S. | DATE: 9/24/07 | FOLDER: EE-WA | DRAWING NUMBER: TR-05 | DRAWN BY: WCP | REVISED:



NOTES:
1. ANY FLARE OR EXCAVATION BEYOND THE LIMITS SPECIFIED SHALL BE BACKFILLED ACCORDINGLY AT THE CONTRACTOR'S EXPENSE.
2. PIPE SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY, OR AS DIRECTED BY THE ENGINEER, EXCEPT AS NOTED IN THIS DETAIL.

WATER MAIN (DUCTILE IRON) TRENCH SECTION FOR GREEN AREAS WITH FIRM AND STABLE EARTH FOUNDATION

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (630) 466-9350

SCALE: N.T.S. | DATE: 7/18/12 | FOLDER: | DRAWING NUMBER: | DRAWN BY: | REVISED:

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED - TVW		REVISED - JPS 10/17/12	
DRAWN - JPS		REVISED - JPS 11/30/12	
CHECKED - JRL		REVISED - JPS 01/28/13	
DATE - 8/23/2012		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SPECIAL DETAILS

SCALE: N.T.S. | SHEET NO. 5 OF 7 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	68
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

PLOTTED: #DATE# #TIME# By: #USER#

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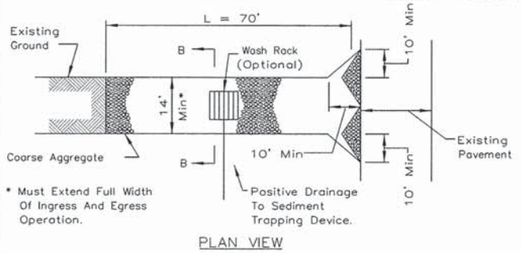
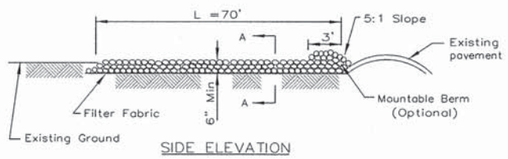
STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW

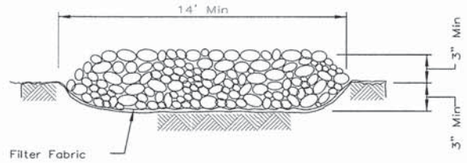


SIDE ELEVATION

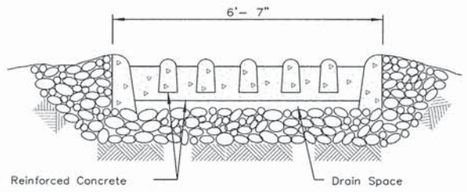
NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-630
Designed ____ Date ____			SHEET 1 OF 2
Checked ____ Date ____			DATE 8-18-94
Approved ____ Date ____			

STABILIZED CONSTRUCTION ENTRANCE PLAN



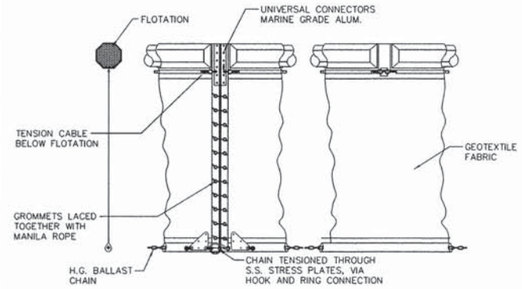
SECTION A-A



SECTION B-B

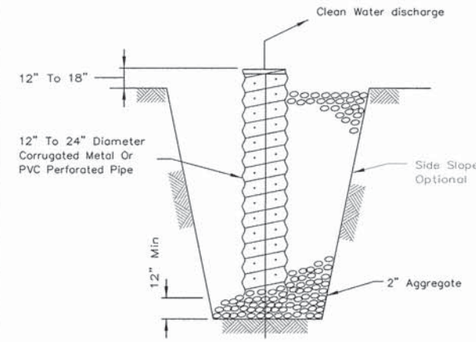
REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-630
Designed ____ Date ____			SHEET 2 OF 2
Checked ____ Date ____			DATE 8-18-94
Approved ____ Date ____			

SEDIMENT CONTROL, SILT CURTAIN



NOT TO SCALE

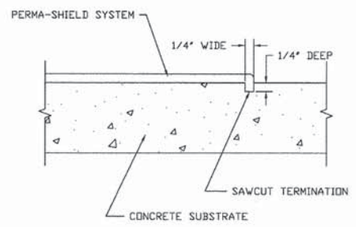
SUMP PIT PLAN



SECTION

NOTES:
1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-650
Designed ____ Date ____			SHEET 1 OF 1
Checked ____ Date ____			DATE 8-11-94
Approved ____ Date ____			



TYPICAL LEADING EDGE TERMINATION

SCALE: NTS

PERMA-SHIELD SYSTEMS: 434, 435, AND 436

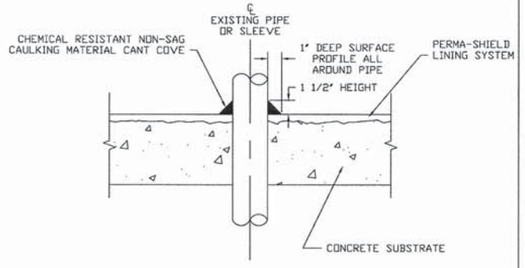
NOTE: BRUSH OR TROWEL SERIES 435 OR 436 INTO SAWCUT TERMINATION

SEE SPECIAL PROVISIONS FOR PERFORMANCE SPECIFICATIONS OF ALLOWABLE COATINGS

TNEMEC PERMA-SHIELD STANDARD LINING DETAILS

LEADING EDGE TERMINATION DETAIL

DWG. NO. TLS-01 | REV. 1



TYPICAL TERMINATION DETAIL AT PIPE PENETRATION

SCALE: NTS

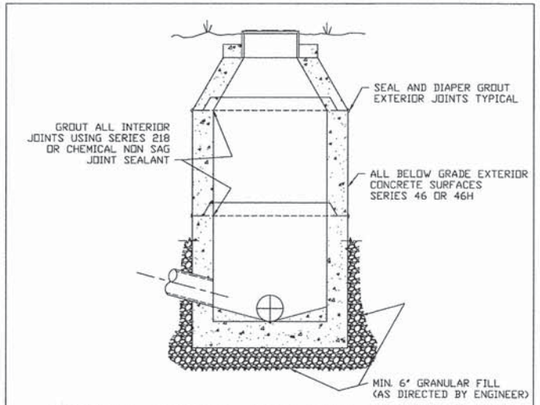
NOTE: ESTABLISH DEEPER SURFACE PROFILE 1" AROUND O.D. OF PIPE PENETRATION TO LOCK LINING SYSTEM INTO SUBSTRATE

SEE SPECIAL PROVISIONS FOR PERFORMANCE SPECIFICATIONS OF ALLOWABLE COATINGS

TNEMEC PERMA-SHIELD STANDARD LINING DETAILS

SLEEVED OR NON-SLEEVED PIPE PENETRATION

DWG. NO. TLS-03 | REV. 2



TYPICAL DETAIL FOR NEW MANHOLE

SCALE: NTS

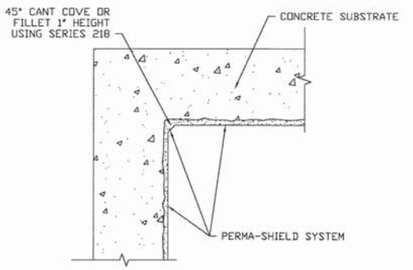
NOTES:
1. ALL EXTERIOR PRE-CAST OR CAST IN PLACE SECTIONS SHALL BE COATED WITH TWO COATS SERIES 46-465 OR 46H @ 8-10 MILS.
2. ALL EXTERIOR JOINTS, LIFT HOLES, INLETS AND OUTLETS TO BE SEALED AND GROUTED.
3. ALL INTERIOR CONCRETE SURFACES PREPARED TO A SSPC-SP13/NACE 6, >ICRI CSP 5.
4. ALL INTERIOR JOINTS, LIFT HOLES, INLETS AND OUTLETS TO BE GROUTED WITH SERIES 218 OR CHEMICAL NON SAG JOINT SEALANT.
5. APPLY APPLICABLE PERMASHIELD COATING SYSTEM.

SEE SPECIAL PROVISIONS FOR PERFORMANCE SPECIFICATIONS OF ALLOWABLE COATINGS

TNEMEC PERMA-SHIELD STANDARD LINING DETAILS

NEW MANHOLE INSTALLATION

DWG. NO. TLS-08 | REV. 1



SECTION - TYPICAL WALL TO SLAB OR CORNER WALL DETAIL

SCALE: NTS

NOTES:
1. SERIES 434 CAN BE USED IN LIEU OF SERIES 218 TO CREATE 1" CANT OR ROLLED RADIUS

SEE SPECIAL PROVISIONS FOR PERFORMANCE SPECIFICATIONS OF ALLOWABLE COATINGS

TNEMEC PERMA-SHIELD STANDARD LINING DETAILS

WALL TO TOP SLAB TRANSITION

DWG. NO. TLS-10 | REV. 0

Plotted: 7/30/2014 4:26:45 PM By: JSchmidt

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

DESIGNED - TVW		REVISED - JPS 10/17/12	
DRAWN - JPS		REVISED - JPS 11/30/12	
CHECKED - JRL		REVISED - JPS 01/28/13	
DATE - 8/23/2012		REVISED -	

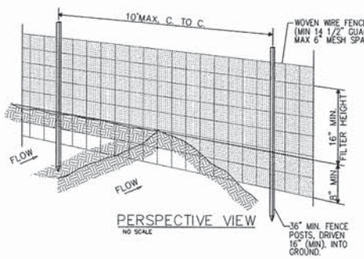
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SPECIAL DETAILS

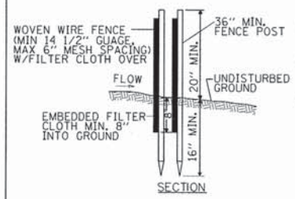
SCALE: N.T.S. | SHEET NO. 6 OF 7 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	69
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

C:\ProjectFiles\2014\14-0080\Plotting\14-0080 Williams Rd Bridge Plan Engineering Sheet.dgn



PERSPECTIVE VIEW
NO SCALE



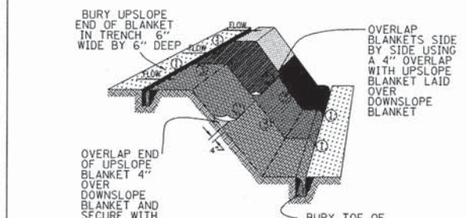
SECTION

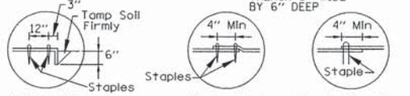
POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.
FENCE: WOVEN WIRE, 14-1/2" GA. 6" MAX. MESH OPENING
FILTER CLOTH: FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.

NOT TO SCALE

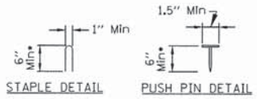
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH AJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.

DOUBLE ROW SILT FENCE





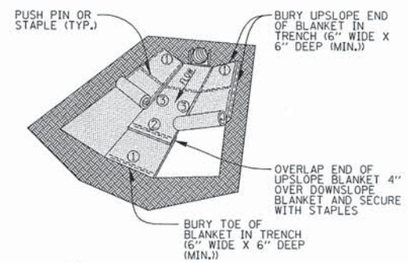
Anchor Slot — DETAIL 1 | Single Joint — DETAIL 2 | Parallel Overlaps — DETAIL 3

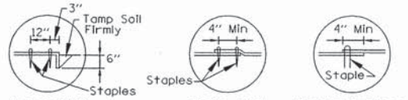


STAPLE DETAIL — PUSH PIN DETAIL

NOTES:
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

EROSION CONTROL BLANKET INSTALLATION DETAILS





Anchor Slot — DETAIL 1 | Single Joint — DETAIL 2 | Parallel Overlaps — DETAIL 3

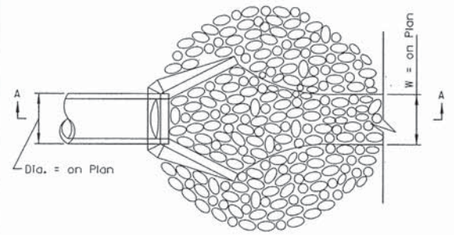
STAPLE DETAIL — PUSH PIN DETAIL

*Note:
1. For sandy soil conditions, staple or push pin shall be a minimum 8 inches.

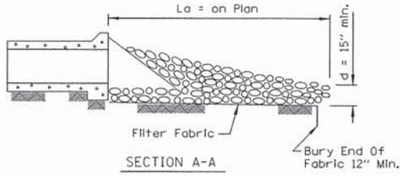
EROSION CONTROL BLANKET TURF REINFORCEMENT MAT

PIPE OUTLET TO CHANNEL

Pipe Outlet To Well-Defined Channel



PLAN

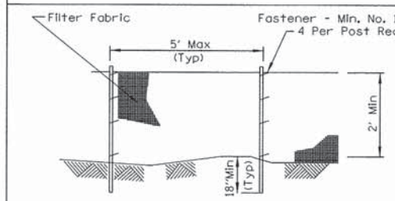


SECTION A-A

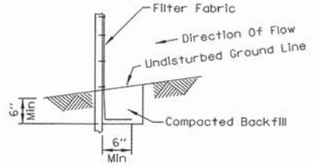
NOTES:
1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I, II or III .
2. The rock riprap shall meet the IDOT requirements for the following gradation RR3.
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-611
Designed ____ Date ____			SHEET 1 OF 1
Checked ____ Date ____			DATE 8-18-94
Approved ____ Date ____			

SILT FENCE PLAN



ELEVATION

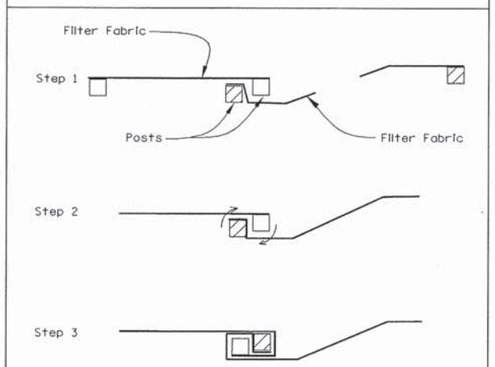


FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-620
Designed ____ Date ____			SHEET 1 OF 2
Checked ____ Date ____			DATE 11-20-01
Approved ____ Date ____			

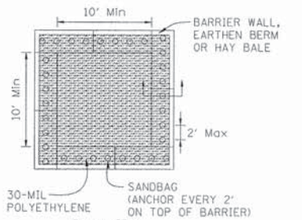
SILT FENCE



ATTACHING TWO SILT FENCES

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

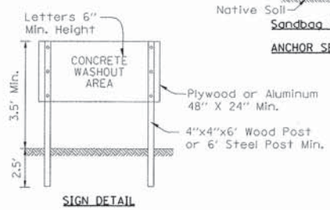
REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-620(W)
Designed ____ Date ____			SHEET 2 OF 2
Checked ____ Date ____			DATE 1-29-99
Approved ____ Date ____			



PLAN VIEW

Sandbag Anchor

ANCHOR SECTION

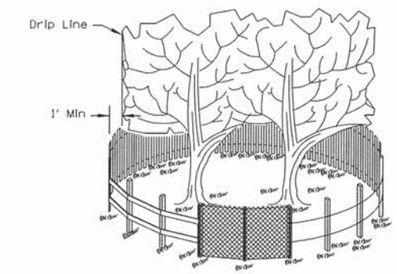


SIGN DETAIL

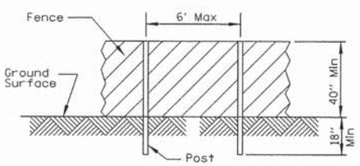
NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

TEMPORARY CONCRETE WASHOUT FACILITY

TREE PROTECTION - FENCING



SIDE VIEW



POST AND FENCE DETAIL

NOTES:
1. The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
2. Fence posts shall be either standard steel posts or wood posts with a minumum cross sectional area of 3.0 sq. in.
3. The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer/inspector.

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CITY OF WARRENVILLE
3S258 MANNING AVENUE
WARRENVILLE, IL 60555

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DRAWN - JPS	REVISED -		
CHECKED - JRL	REVISED -		
DATE - 8/23/2012	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
SPECIAL DETAILS

SCALE: N.T.S. | SHEET NO. 7 OF 7 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	70
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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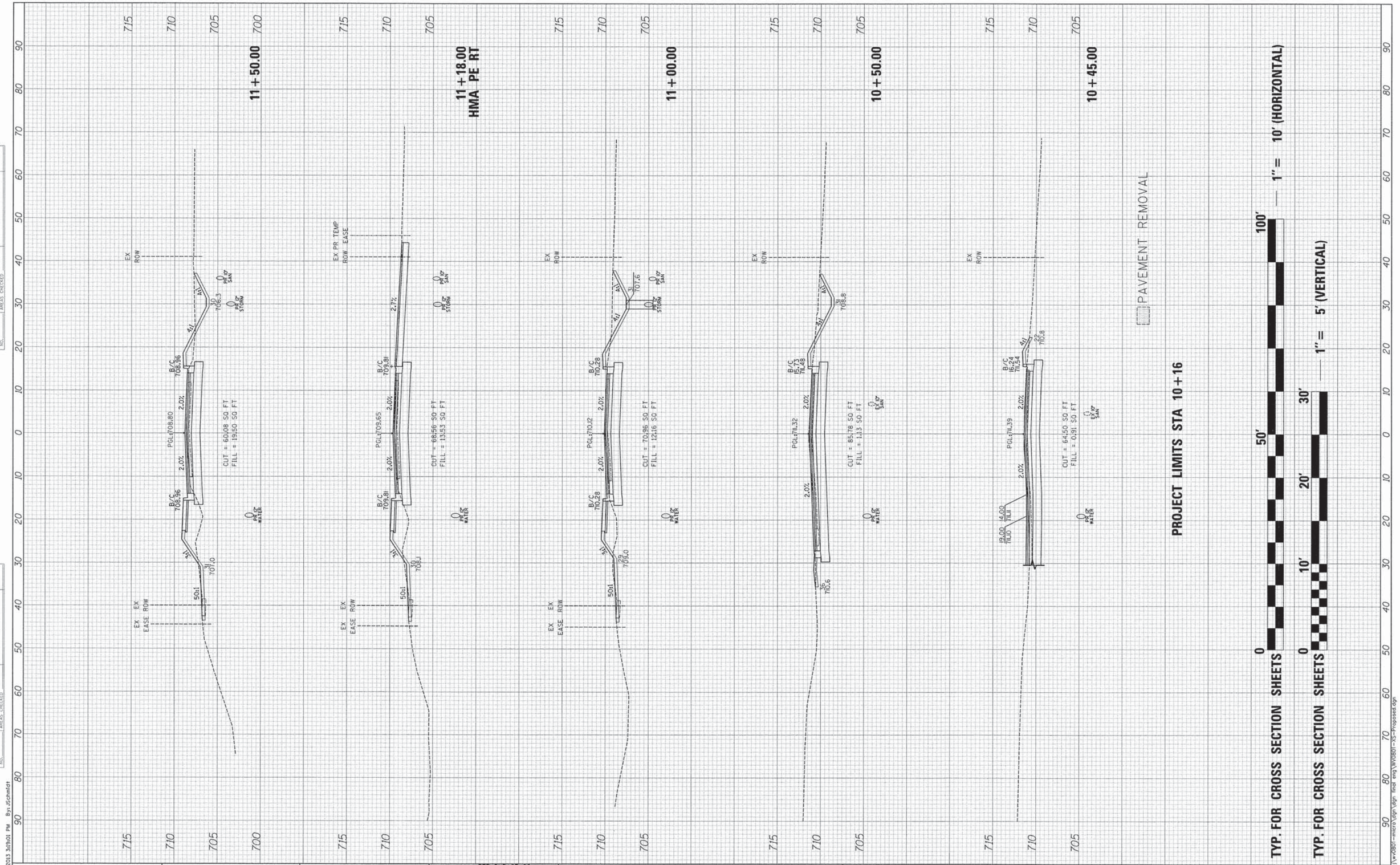
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



PAVEMENT REMOVAL

PROJECT LIMITS STA 10+16

TYP. FOR CROSS SECTION SHEETS

0 50′ 100′ — 1″ = 10′ (HORIZONTAL)

0 20′ 30′ — 1″ = 5′ (VERTICAL)

TYP. FOR CROSS SECTION SHEETS

0 0 10′ 20′

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CHECKED	JRL	REVISED	-
DATE	8/23/2012	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALE: 1″=10′(H)/5′(V) | SHEET NO. 1 OF 10 SHEETS | STA. 10+40.00 TO STA. 11+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	71
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

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

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NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
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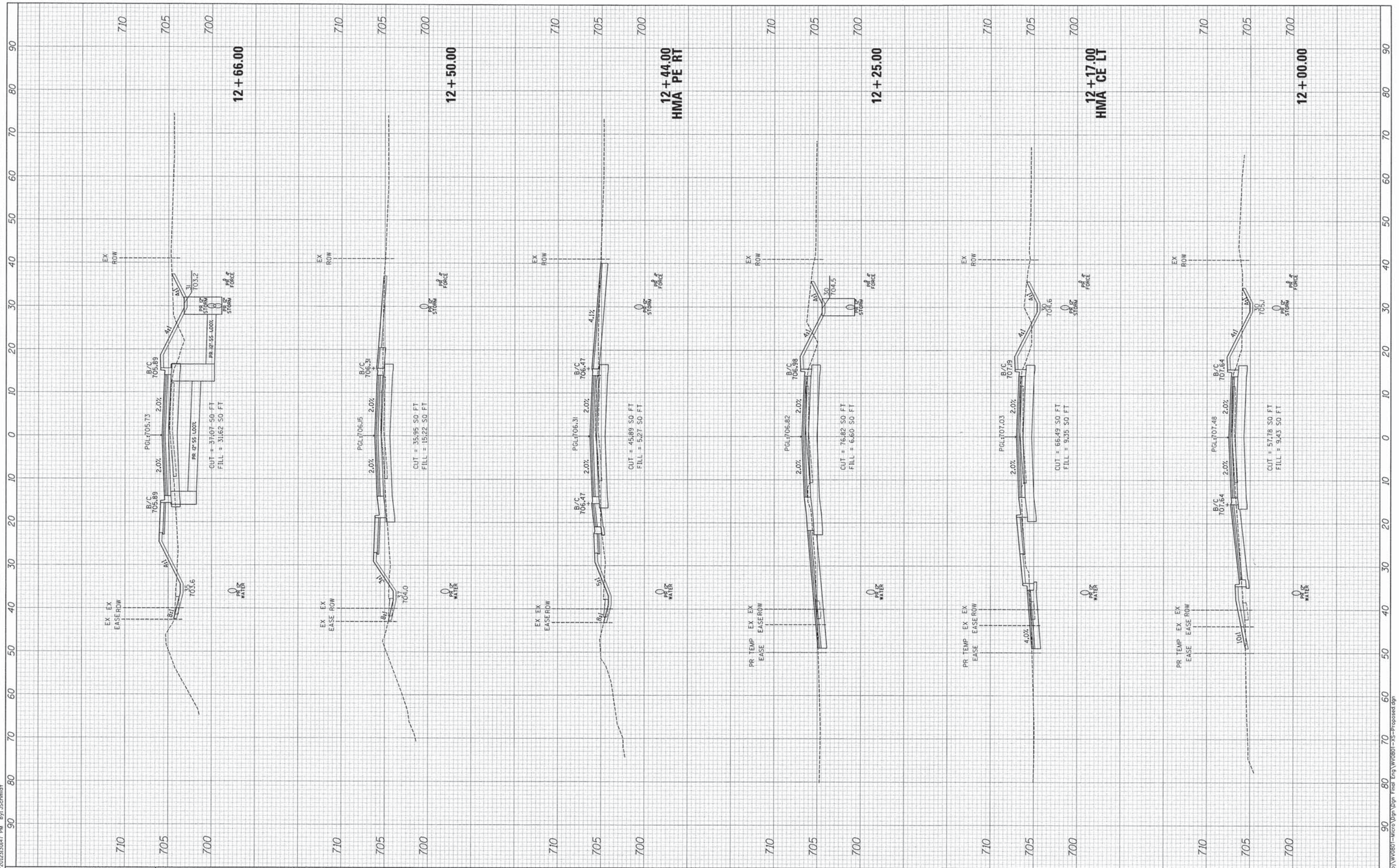
	AREAS CHECKED		



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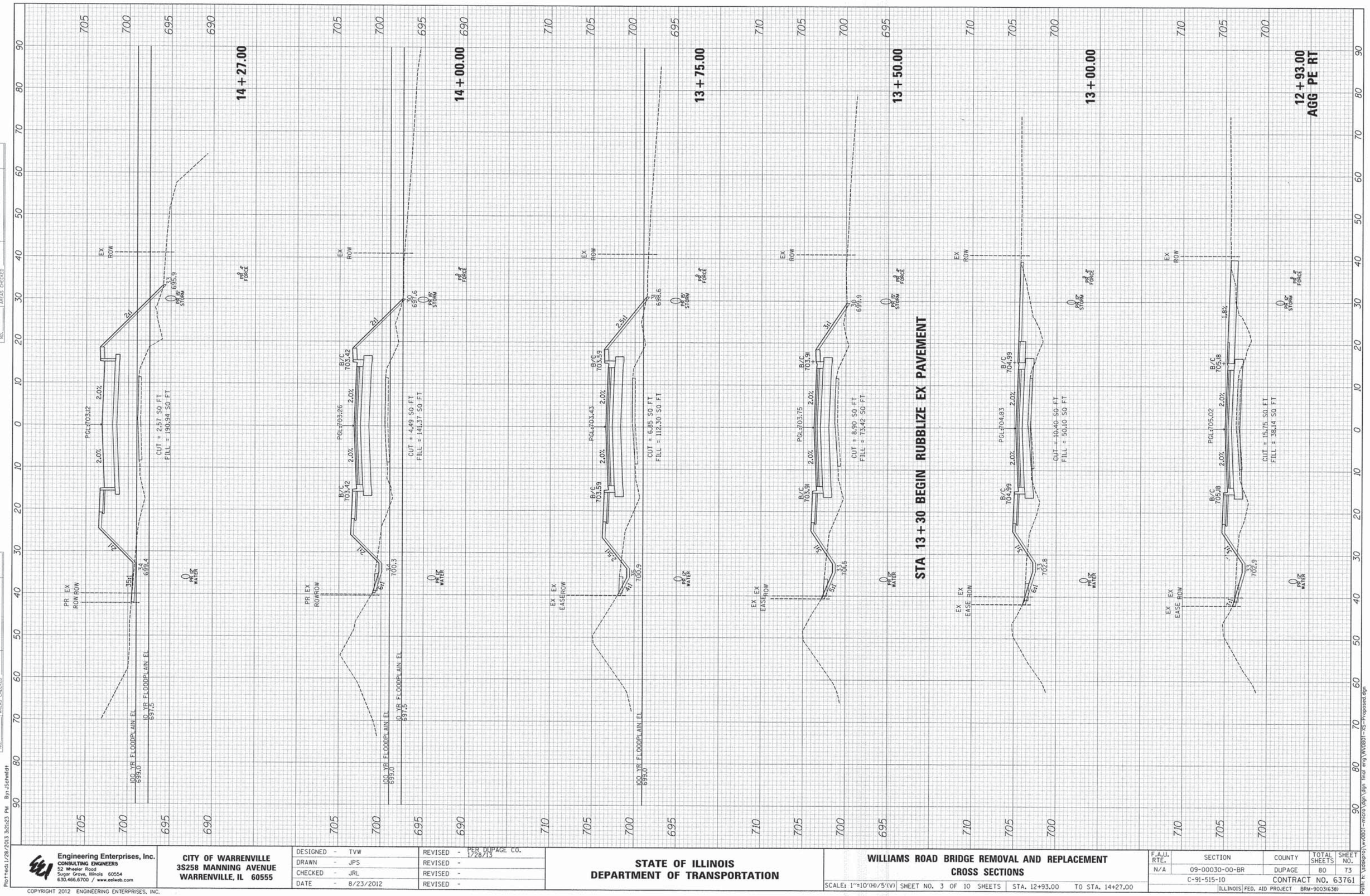
		DRAWN - JPS	REVISED -
		CHECKED - JRL	REVISED -
		DATE - 8/23/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 2 OF 10 SHEETS | STA. 12+00.00 TO STA. 12+66.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	72
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			



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

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

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CHECKED	JRL	REVISED	-
DATE	8/23/2012	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 3 OF 10 SHEETS | STA. 12+93.00 TO STA. 14+27.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	73
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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NOTE BOOK	TEMPLATE		
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NO.	AREAS CHECKED		

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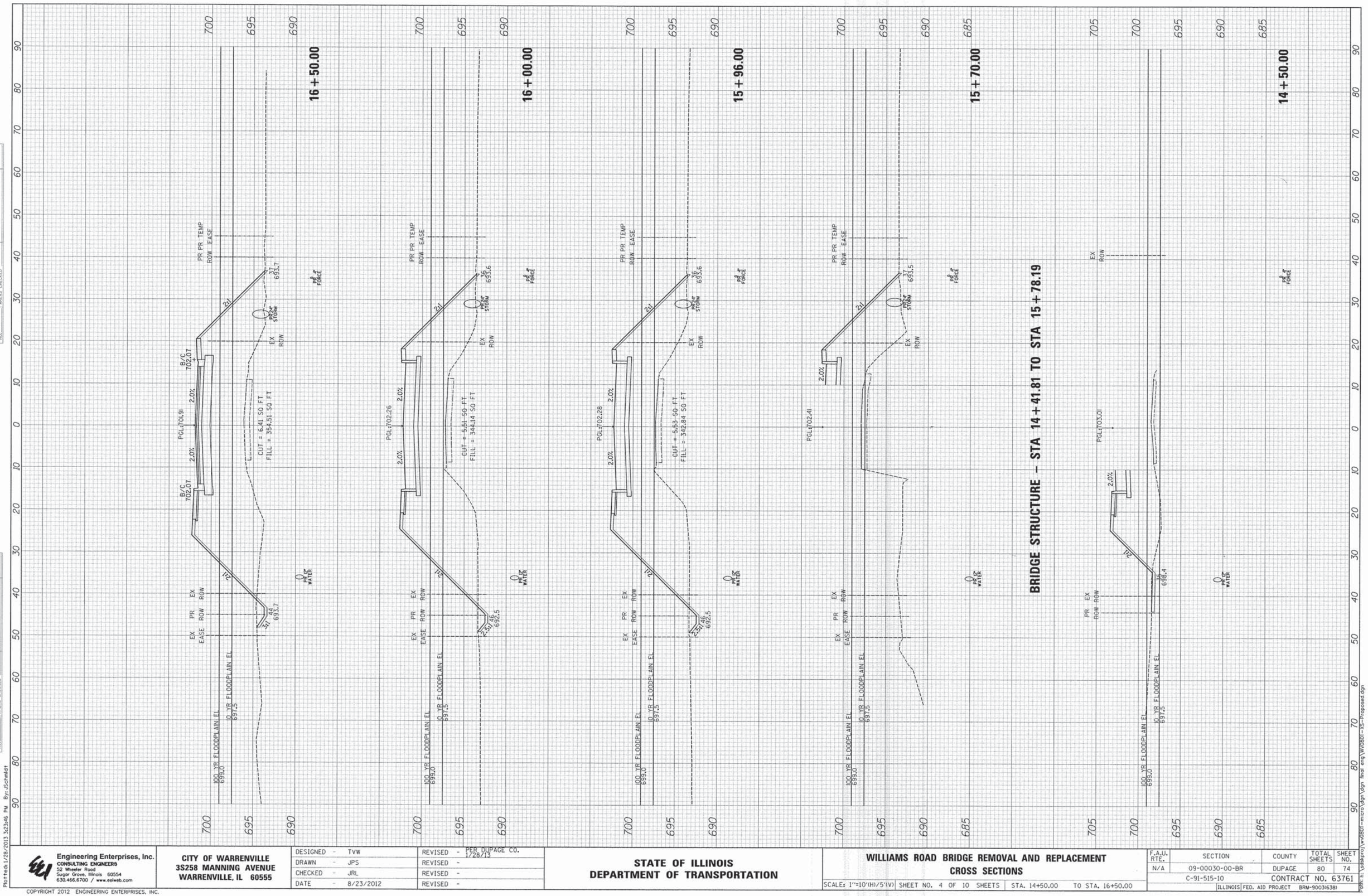

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 4 OF 10 SHEETS | STA. 14+50.00 | TO STA. 16+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	74
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

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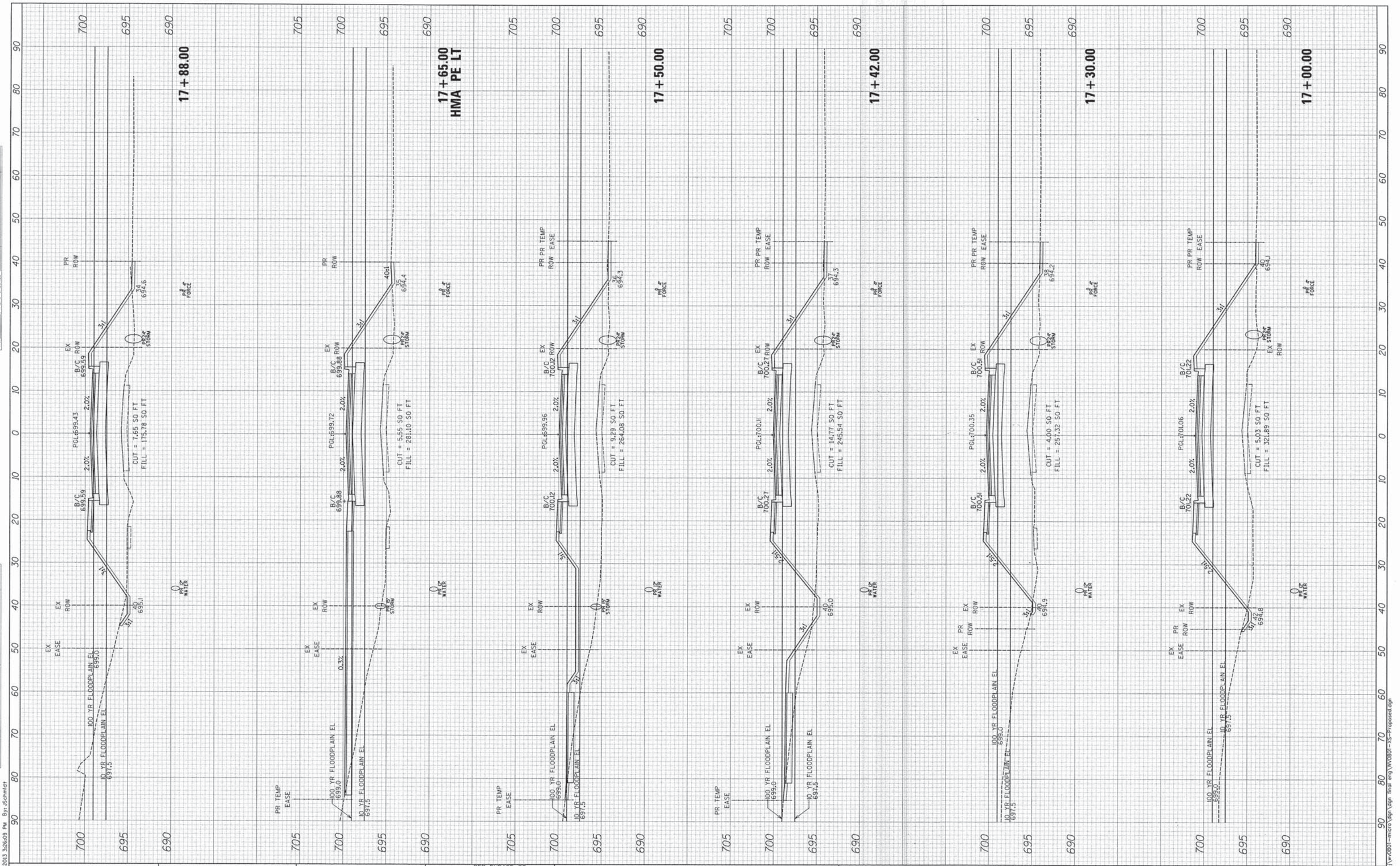

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 5 OF 10 SHEETS | STA. 17+00.00 TO STA. 17+88.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	75
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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NOTE BOOK	PLOTTED		
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NO.	AREAS		
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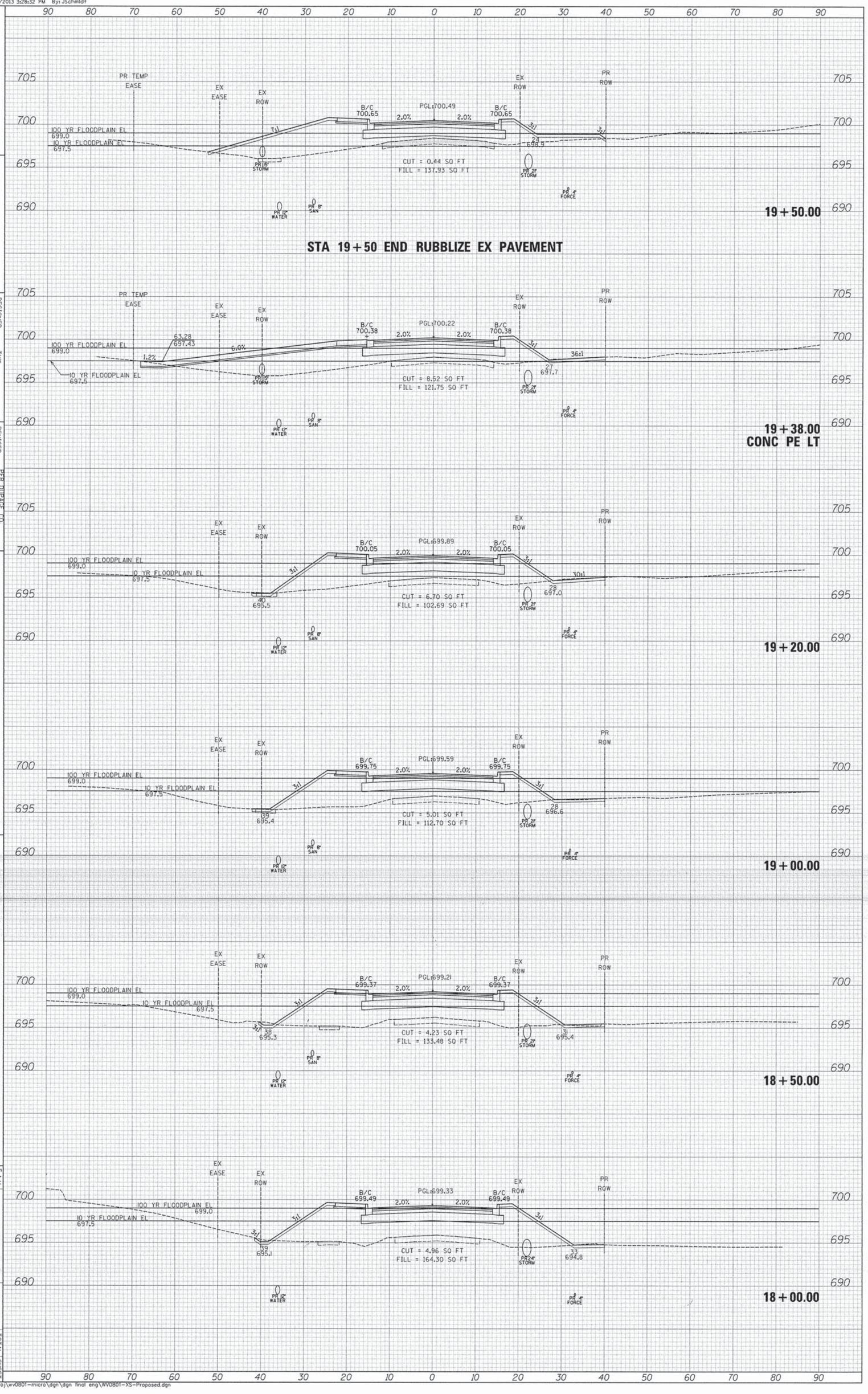
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALES: 1"=10'(HW/SLV) | SHEET NO. 6 OF 10 SHEETS | STA. 18+00.00 TO STA. 19+50.00

F.A.U. RTE. N/A | SECTION: 09-00030-00-BR | COUNTY: DUPAGE | TOTAL SHEETS: 80 | SHEET NO.: 76

C-91-515-10 | CONTRACT NO. 63761 | ILLINOIS FED. AID PROJECT: BRM-3005(638)



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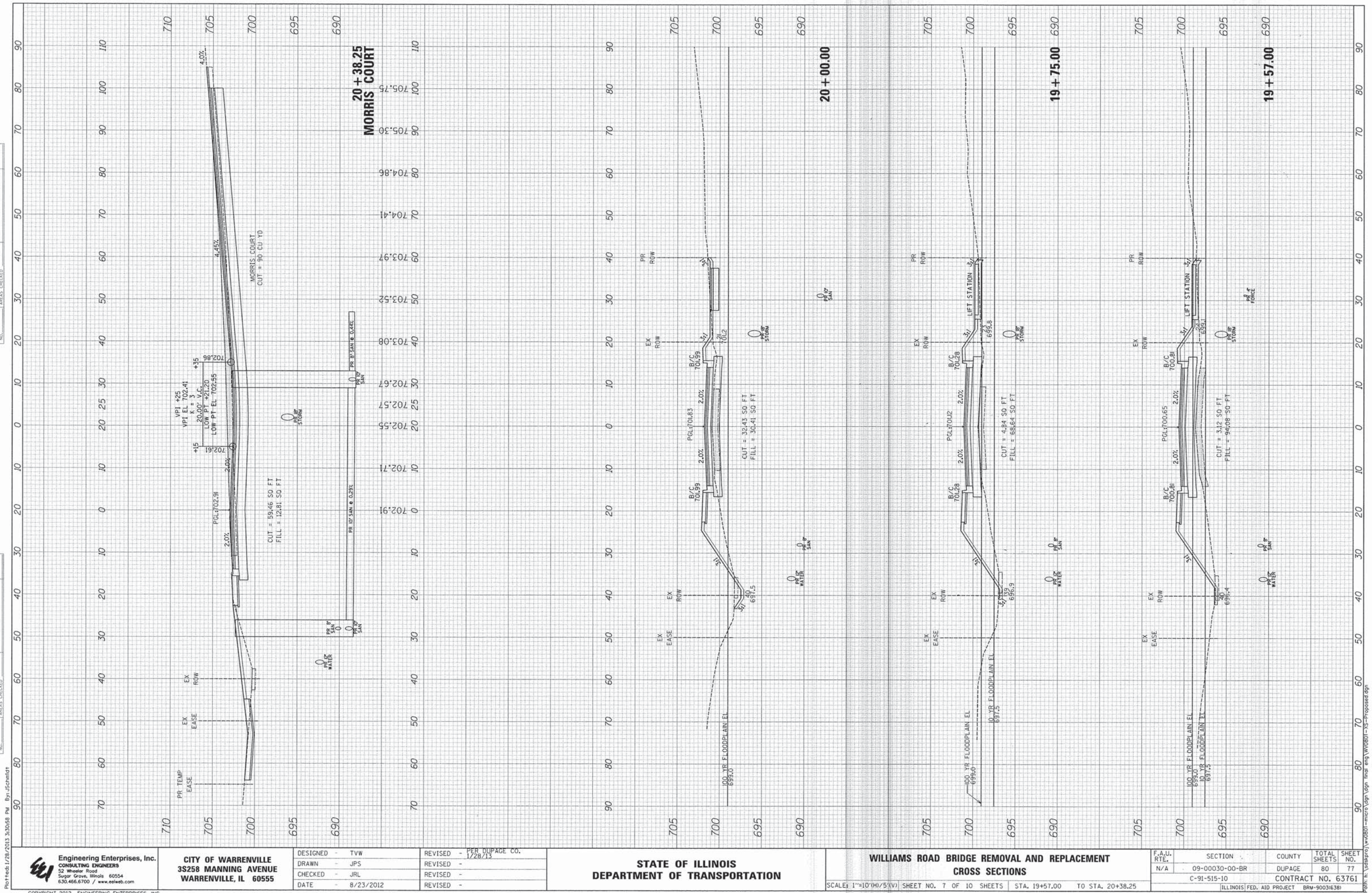

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	CHECKED - JRL	REVISED -	
	DATE - 8/23/2012	REVISED -	

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 7 OF 10 SHEETS | STA. 19+57.00 TO STA. 20+38.25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	77
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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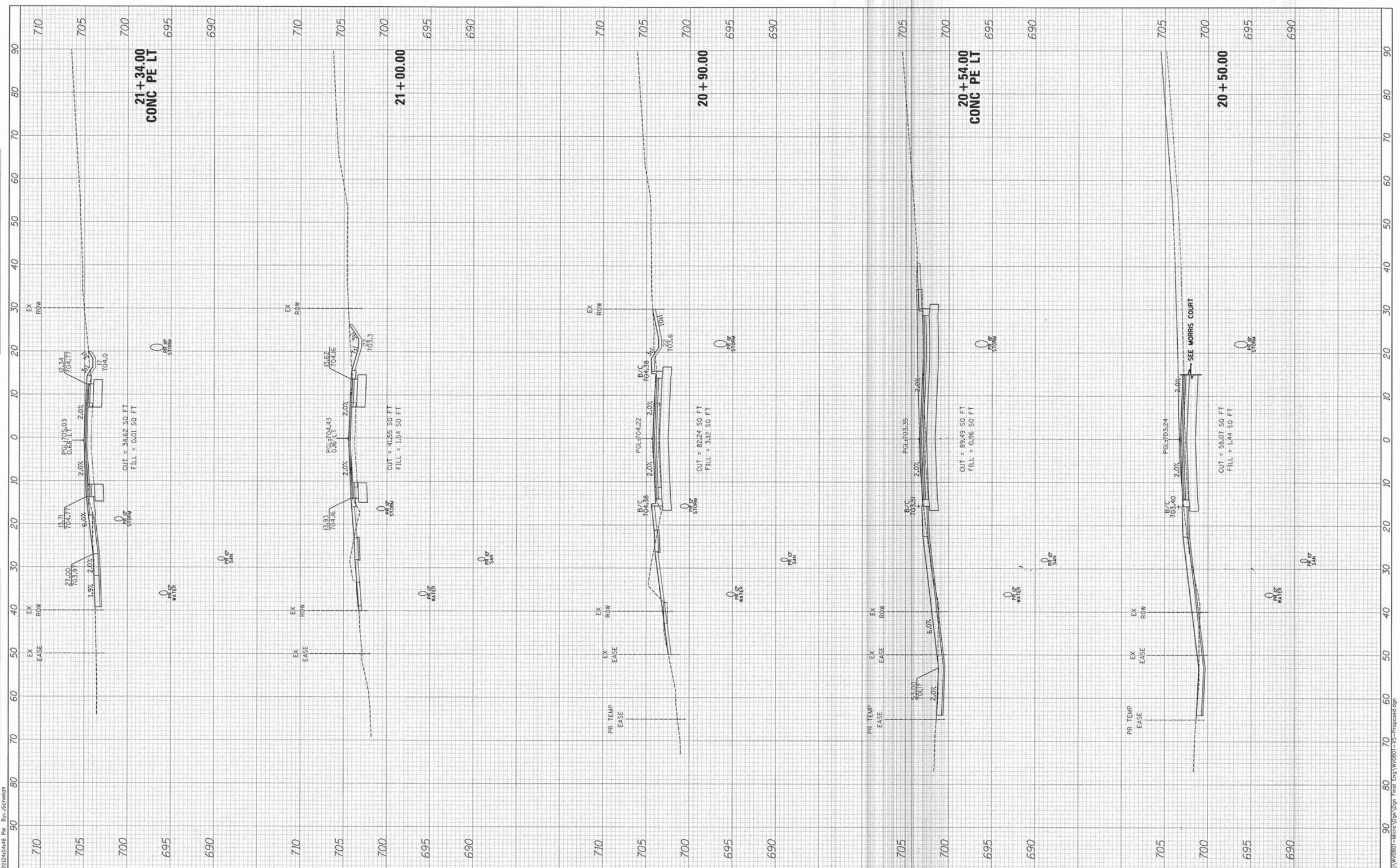

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 8 OF 10 SHEETS | STA. 20+50.00 TO STA. 21+34.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	78
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

FINAL SURVEY		BY	DATE
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NOTE BOOK	TEMPLATE		
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ORIGINAL SURVEY		BY	DATE
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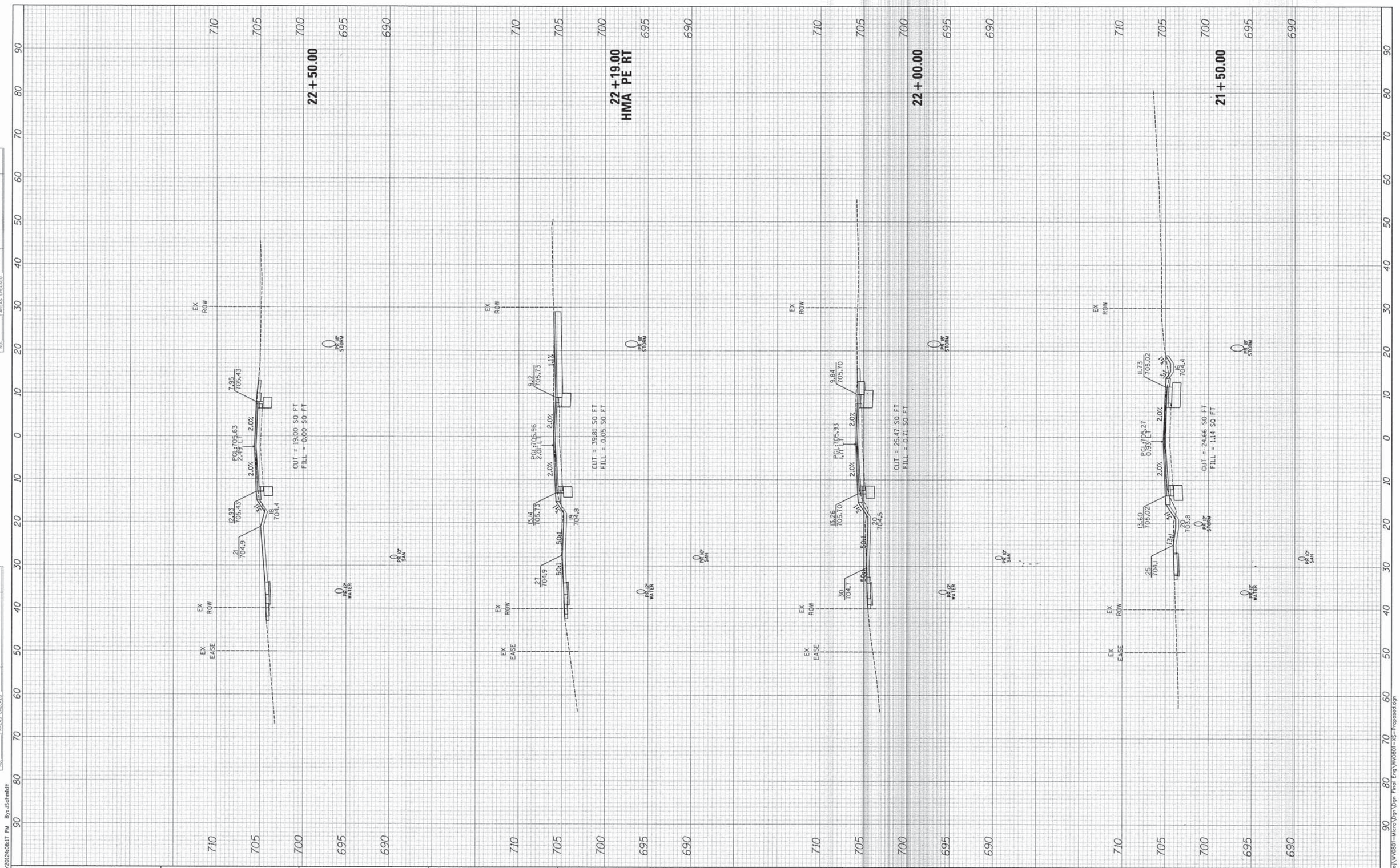

Plotted: 10/17/2012 06:17 PM By: JSchmidt

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 9 OF 10 SHEETS | STA. 21+50.00 | TO STA. 22+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	79
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT	BRM-9003(638)		

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

ORIGINAL SURVEY		BY	DATE
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NOTE BOOK	TEMPLATE		
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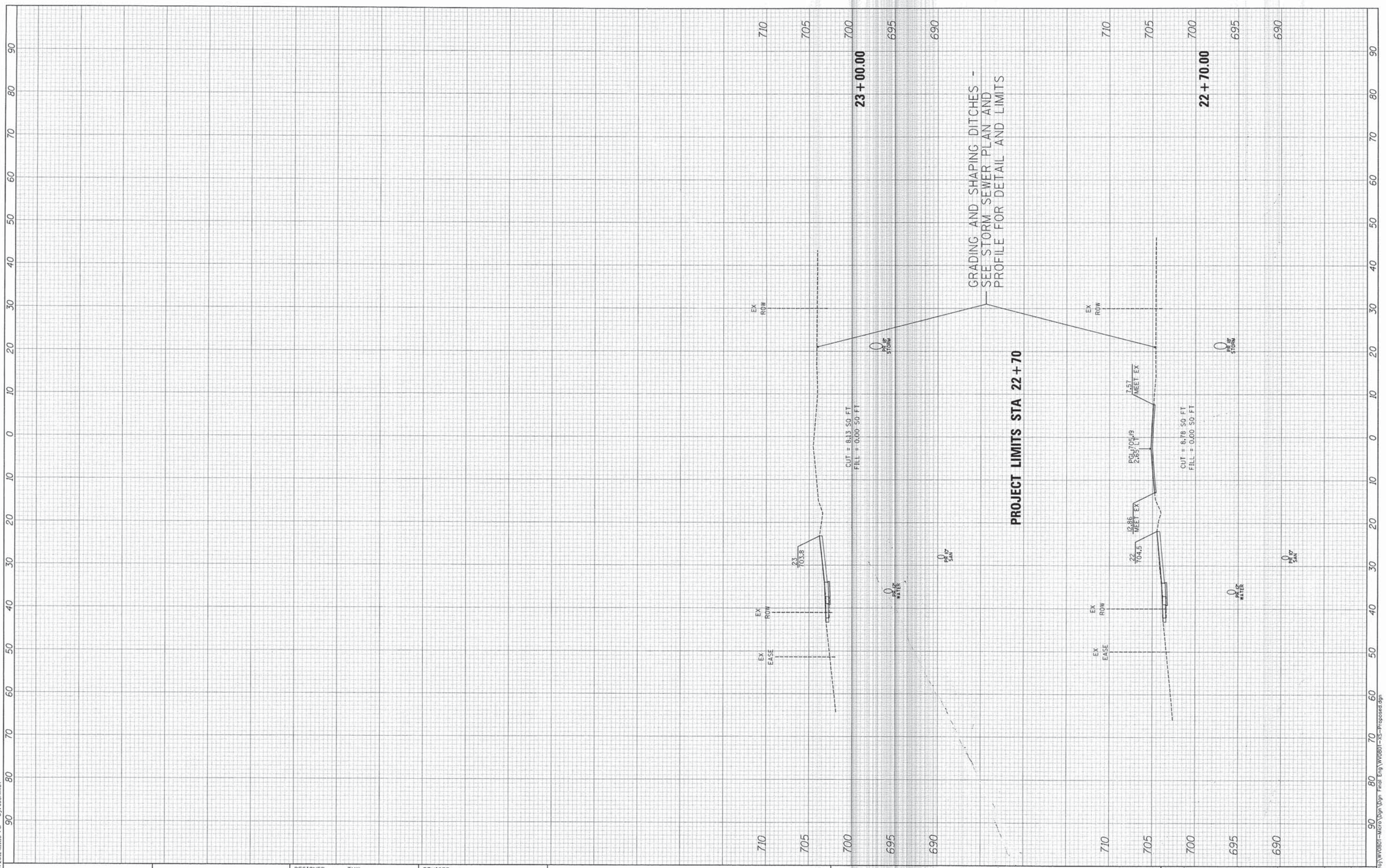

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CHECKED - JRL		REVISED -
DATE - 8/23/2012		REVISED -

STATE OF ILLINOIS
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WILLIAMS ROAD BRIDGE REMOVAL AND REPLACEMENT
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 10 OF 10 SHEETS | STA. 22+70.00 | TO STA. 23+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	09-00030-00-BR	DUPAGE	80	80
	C-91-515-10	CONTRACT NO. 63761		
	ILLINOIS FED. AID PROJECT BRM-9003(638)			

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