

STATE OF ILLINOIS 08-04-2023 LETTING ITEM 011
 DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	1
		ILLINOIS	62P03	

BEHZAD AMINI
 062-067557
 LICENSED PROFESSIONAL ENGINEER
 STATE OF ILLINOIS

ATLAS ENGINEERING GROUP, LTD.
 Date: 03-14-2023
 Behzad Amini
 Expires: 11-30-23
 Sheet No.: 12, 18-19

MEHMET B. CIVELEK
 081-005449
 LICENSED PROFESSIONAL ENGINEER
 STATE OF ILLINOIS

ATLAS ENGINEERING GROUP, LTD.
 Date: 03-14-2023
 Mehmet Basar Civelek
 Expires: 11-30-24
 Sheet No.: 13-17

FOR INDEX OF SHEETS, SEE SHEET NO. 2

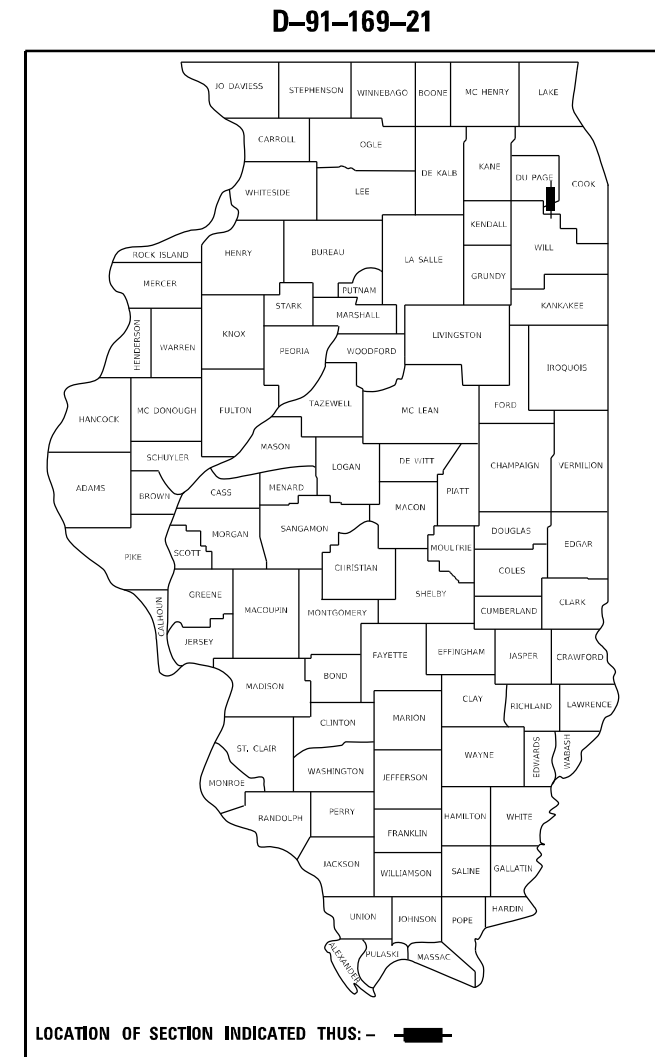
PROJECT IS LOCATED IN THE VILLAGE OF BURR RIDGE IN DUPAGE COUNTY

IL 83 TRAFFIC DATA:

FUNCTIONAL CLASSIFICATION
 OTHER PRINCIPAL ARTERIAL
 2020 ADT = 31300
 SPEED LIMIT = 55 MPH

**PROPOSED
 HIGHWAY PLANS**

FAP 344 /IL ROUTE 83 OVER DRAINAGE DITCH
 0.6 MILES SOUTH OF 91ST STREET
 SECTION 2021-065-CR
 PROJECT NHPP-024G(690)
 CULVERT REPAIR
 EXISTING S.N.: 022-0523
 DUPAGE COUNTY



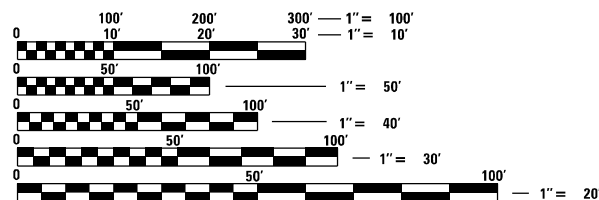
C-91-205-21

R 11 E



BEGIN IMPROVEMENT
 STA 3+00

END IMPROVEMENT
 STA 12+00



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

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

PROJECT ENGINEER - PRAVEEN KAINI, PE (847) 705-4237
 PROJECT MANAGER - J. ALAIN MIDY, PE (847) 221-3056

CONTRACT NO. 62P03

DOWNERS GROVE TOWNSHIP
 LOCATION MAP (N.T.S.)

GROSS LENGTH = 900 FT. = 0.17 MILE
 NET LENGTH = 900 FT. = 0.17 MILE

AEG ATLAS ENGINEERING GROUP, LTD.
 211 W. Wacker Drive, Suite 730 | Chicago, IL 60606
 847.753.8020 (office) | 847.753.8023 (fax)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED MARCH 15 2023
Paul Rios
 REGIONAL ENGINEER

June 30, 2023 J. A. Etk
 ENGINEER OF DESIGN AND ENVIRONMENT

June 30, 2023 Steph M. Smith
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA.
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS \geq 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS \geq 45 MPH TO 55 MPH
701901-08	TRAFFIC CONTROL DEVICES
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS AND SPECIAL PROVISIONS OF THE BUREAU OF DESIGN AND ENVIRONMENT. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN JANUARY 1, 2023 EDITION.
- THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT LEAST 48HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB, EITHER BY HIM/HER OR ANY SUB-CONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

GENERAL NOTES (CONTINUED)

- NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN INSTALLED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- ALL EXCESS MATERIAL SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITES AND OBTAIN PERMISSION AND ALL NECESSARY PERMITS TO USE SUCH DUMP SITES.
- THE CONTACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS FOR TRAFFIC AS SHOWN ON THE IDOT STANDARDS 701421-08 AND 701422-10.
- THE CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKDAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- THE STRIPPED TOPSOIL SHALL BE STOCKPILED, SORTED, AND REUSED FOR THE PROPOSED LANDSCAPING IMPROVEMENTS. THE ACTUAL REMOVAL DEPTH AND QUANTITY OF TOPSOIL REMOVAL SHALL BE VERIFIED IN THE FIELD.
- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT AND LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.
- THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS TO NOT CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.
- CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT 847-705-4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK.
- THIS PROJECT REQUIRES AN US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN DIGGING AROUND THE 16" DIAMETER WEST SHORE GAS LINES. ONE OF THE GAS LINES IS LOCATED DIRECTLY UNDERNEATH THE EXISTING CULVERT SECTION TO BE REPLACED.

COMMITMENTS

NONE

ILLINOIS DEPARTMENT OF TRANSPORTATION

THE CONTRACTOR SHALL CONTACT THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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	PLOT SCALE = 100,0000' / in.	CHECKED - BA	REVISED -			344	2021-065-CR	DUPAGE	19	2
PLOT DATE = 5/11/2023	DATE -	REVISED -	CONTRACT NO. 62P03							
					SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.
					ILLINOIS FED. AID PROJECT					

CODE			TOTAL	CONSTR. CODE	
				NHPP 80% FED 20% STATE	BOX CULVERT 0004
				URBAN	
20101100	TREE TRUNK PROTECTION	EACH	1	1	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	191	191	
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	69	69	
25000312	SEEDING, CLASS 4A	ACRE	0.25	0.25	
25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
25100630	EROSION CONTROL BLANKET	SQ YD	393	393	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	8	8	
28000305	TEMPORARY DITCH CHECKS	FOOT	28	28	
28000400	PERIMETER EROSION BARRIER	FOOT	333	333	
28100107	STONE RIPRAP, CLASS A4	SQ YD	50	50	
28200200	FILTER FABRIC	SQ YD	50	50	
50102400	CONCRETE REMOVAL	CU YD	9	9	

CODE			TOTAL	CONSTR. CODE	
				NHPP 80% FED 20% STATE	BOX CULVERT 0004
				URBAN	
50200100	STRUCTURE EXCAVATION	CU YD	204	204	
50500505	STUD SHEAR CONNECTORS	EACH	64	64	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2053	2053	
51500100	NAME PLATES	EACH	1	1	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	154	154	
52200100	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	132	132	
52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	415	415	
52200250	UNTREATED TIMBER LAGGING	SQ FT	352	352	
54002020	EXPANSION BOLTS 3/4 INCH	EACH	14	14	
54003000	CONCRETE BOX CULVERTS	CU YD	15	15	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	32	32	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	128	128	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	

* = SPECIAL PROVISION

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PLOT SCALE = 100,0000' / in.	DATE -	REVISED -
PLOT DATE = 5/11/2023		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
ILLINOIS RT 83 OVER DITCH 0.6 MILES SOUTH OF 91ST STREET			
SCALE: 1" = 50'	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR		19	3
CONTRACT NO. 62P03			ILLINOIS FED. AID PROJECT	

CONSTR. CODE
NHPP
80% FED
20% STATE
BOX CULVERT
0004
URBAN

CODE			TOTAL	CONSTR. CODE
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	300	300
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	30	30
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30
70400100	TEMPORARY CONCRETE BARRIER	FOOT	325	325
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1
** X5060702	CLEANING AND PAINTING EXPOSED REBAR	L SUM	1	1
** X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	1	1
** X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12
** X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
** Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1

CONSTR. CODE
NHPP
80% FED
20% STATE
BOX CULVERT
0004
URBAN

CODE			TOTAL	CONSTR. CODE
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1	1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	26	26

* SPECIALTY ITEM

** = SPECIAL PROVISION

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	PLOT DATE = 5/11/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
ILLINOIS RT 83 OVER DITCH 0.6 MILES SOUTH OF 91ST STREET

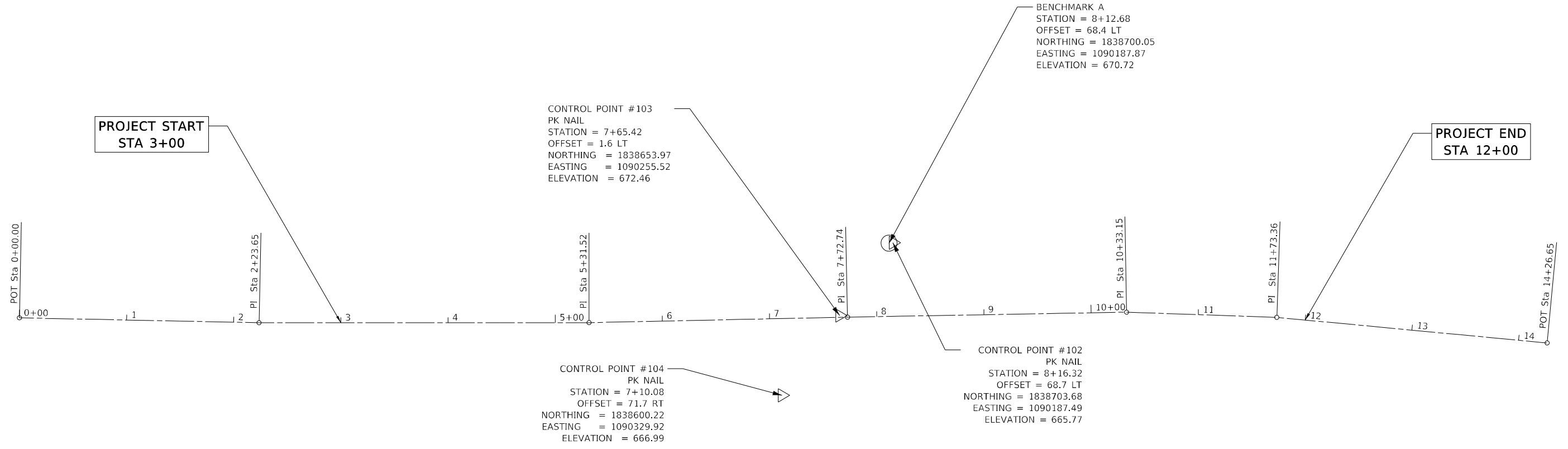
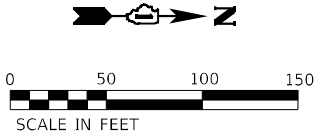
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	4
			CONTRACT NO. 62P03	
ILLINOIS FED. AID PROJECT				

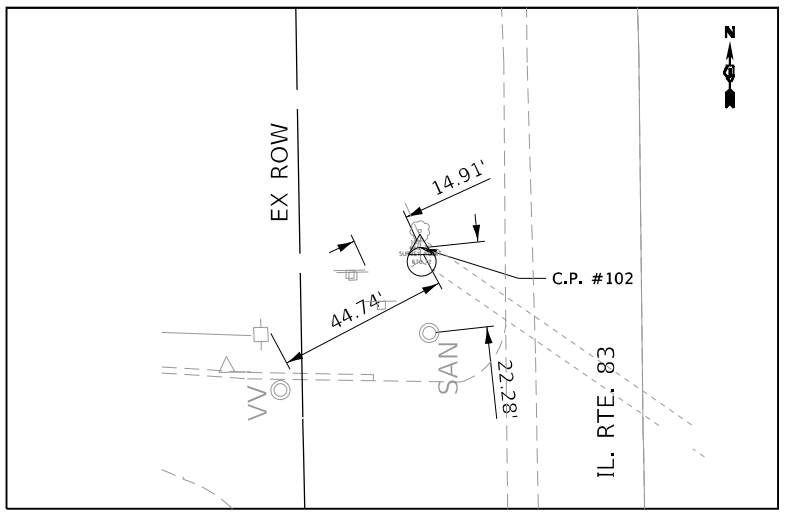
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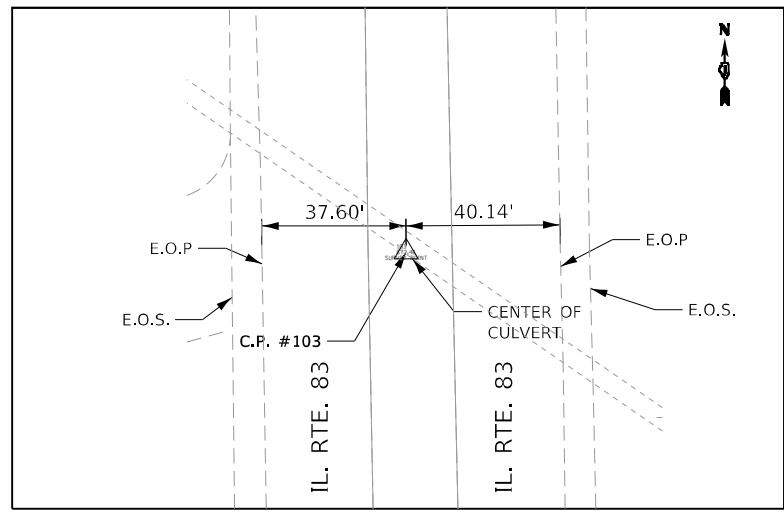
1. ALL COORDINATES SHOWN ARE BASED UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, MAP COORDINATES REFLECT NAD 83 (2011).
2. ALL COORDINATE VALUES SHOWN ARE IN THE U.S. SURVEY FOOT UNITS.
3. ELEVATIONS REFLECT THE NAVD 88 (GEOID12A ADJUSTMENT).
4. SOME OR ALL OF THE CONTROL POINTS AND BENCHMARKS MAY BE DESTROYED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND RELOCATE THESE OUTSIDE OF THE CONSTRUCTION LIMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.



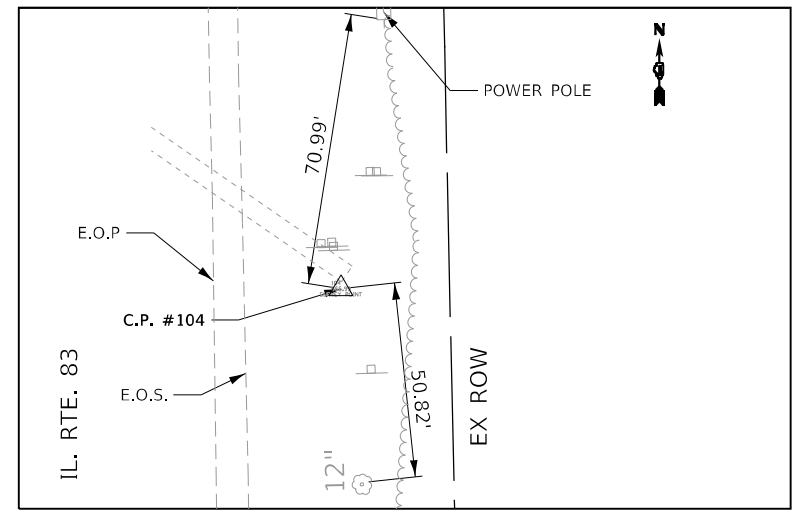
CONTROL POINT #102



CONTROL POINT #103

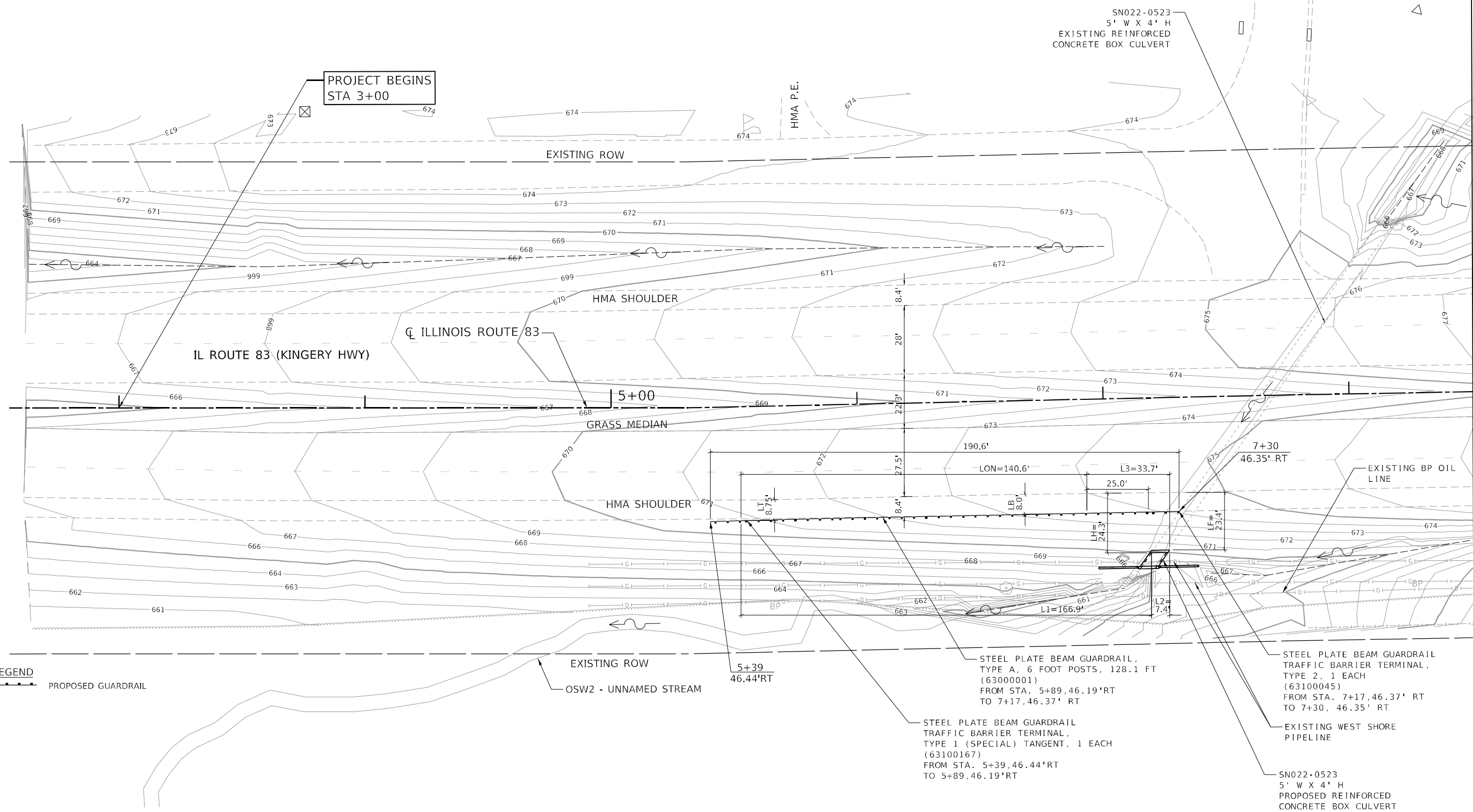
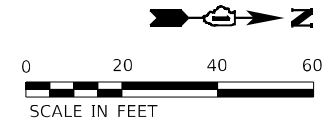


CONTROL POINT #104



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	USER NAME = cpujari	DESIGNED - NKA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES, AND BENCHMARKS ILLINOIS RT 83 OVER DITCH 0.6 MILES SOUTH OF 91ST STREET			F.A.P. RTE. = 344	SECTION = 2021-065-CR	COUNTY = DUPAGE	TOTAL SHEETS = 19	SHEET NO. = 5
	PLOT SCALE = 100,0000' / in.	CHECKED - BA	REVISED -					SCALE: 1" = 50'	SHEET 1	OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 62P03
	PLOT DATE = 5/4/2023	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



MATCHLINE STA 8+50
IL ROUTE 83 (KINGERY HWY)

LEGEND
 PROPOSED GUARDRAIL

AEG ATLAS ENGINEERING GROUP, LTD.

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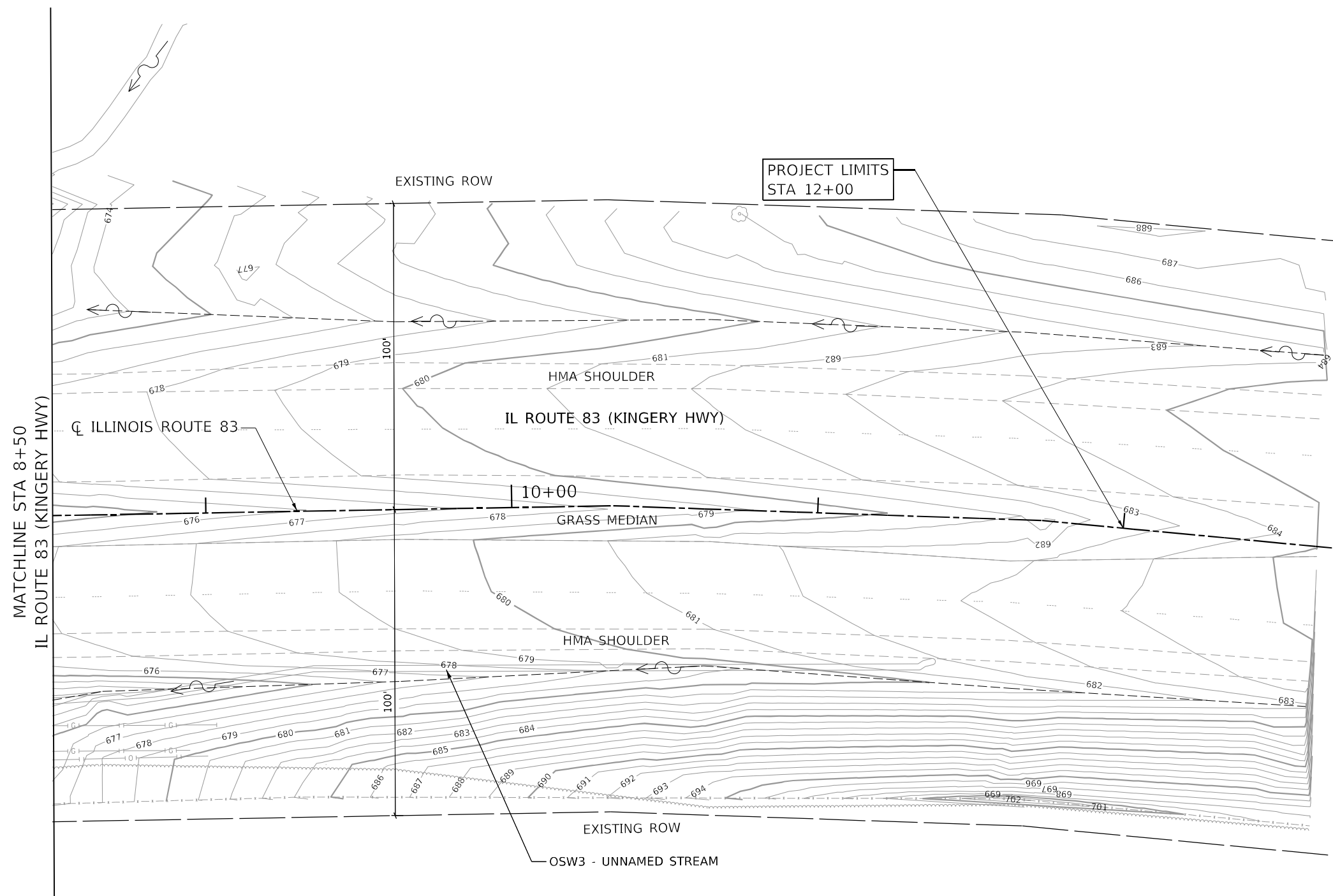
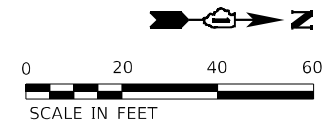
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL LOCATION PLAN
ILLINOIS RT 83 OVER DITCH 0.6 MILES SOUTH OF 91ST STREET**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	7
CONTRACT NO. 62P03				
ILLINOIS FED. AID PROJECT				

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LEGEND
 PROPOSED GUARDRAIL

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AEG ATLAS ENGINEERING GROUP, LTD.

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 PLOT DATE = 5/4/2023

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL LOCATION PLAN
 ILLINOIS RT 83 OVER DITCH 0.6 MILES SOUTH OF 91ST STREET**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	8
CONTRACT NO. 62P03				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL GENERAL NOTES

- ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT:
HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL
- EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA REQUIREMENTS & IDOT CONSTRUCTION SPECIFICATIONS. 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.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE DUPAGE - BURR RIDGE SWCD.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. CONSTRUCTION LIMITS SHALL BE MINIMIZED TO KEEP SOIL DISTURBANCE TO A MINIMUM LEAVING AS MUCH EXISTING VEGETATION IN PLACE AS POSSIBLE. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- THE MAINTENANCE AND REPAIR OR REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE ENGINEER, WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.
- TEMPORARY EROSION CONTROL SEEDING MIXTURE WILL DEPEND ON THE TIME OF YEAR SEED IS TO BE APPLIED AND SHALL BE IN ACCORDANCE WITH ARTICLE 1081.15(G) OF THE STANDARD SPECIFICATIONS. STABILIZATION OF ALL AREAS DISTURBED BY CONSTRUCTION SHALL COMMENCE WITHIN 1 DAY AND BE COMPLETE WITHIN 14 DAYS FOR ANY PORTION OF THE SITE THAT WILL BE IDLE FOR MORE THAN 14 DAYS. IF THAT PORTION OF THE SITE WILL BECOME ACTIVE AGAIN AFTER 14 DAYS, TEMPORARY STABILIZATION MEASURES CAN BE USED.
- TOPSOIL AND FERTILIZER NUTRIENTS ARE NOT REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING.
- SEED BED PREPARATION WILL NOT BE REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING IF THE SOIL IS IN A LOOSE CONDITION. LIGHT DISKING SHALL BE DONE IF THE SOIL IS HARD PACKED OR CAKED.
- ALL PERIMETER EROSION BARRIER SHALL BE INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY.
- TEMPORARY EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AFTER TEMPORARY EROSION CONTROL SEEDING HAS BEEN COMPLETED ON ALL AREAS WITH SLOPES OF 1:3 (V:H) OR STEEPER, AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- THE CONSTRUCTION LIMITS WILL BE STAKED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
- IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED. STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING. SOIL STOCKPILES SHALL NOT BE LOCATED IN WETLAND BUFFER LOCATIONS.
- WETLANDS EXIST ON SITE. THE CONTRACTOR IS TO MAKE EVERY EFFORT TO PROTECT THE WETLANDS DURING CONSTRUCTION AND TO MINIMIZE IMPACTS TO WETLAND BUFFER LOCATIONS. WETLANDS SHALL NOT BE IMPACTED BY THE CONTRACTOR. CONTRACTOR SHALL INSTALL PERIMETER EROSION BARRIER AROUND THE WETLAND LOCATIONS AND MAINTAIN THIS BARRIER THROUGHOUT THE LIFE OF THE PROJECT. BUFFER AREAS SHALL BE SEEDED WITH CLASS 4A SEED MIXTURE.
- ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES SHALL BE CHECKED WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHALL BE CHECKED AFTER EACH SIGNIFICANT SNOWFALL.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR THE OFFSITE BORROW OR WASTE/USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING, OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR IN THE PROJECT SITE.
- UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.

- THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF DEWATERING WHICH WILL BE PAID FOR AS DEWATERING STRUCTURE NO. 1 (IN-STREAM/WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.
- ALL TREE PROTECTION SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREE UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
- PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT. A PHOSPHORUS-FREE FERTILIZER SHALL BE USED (MIDDLE NUMBER SHOULD EQUAL 0).

EROSION AND SEDIMENTATION CONTROL SEQUENCES

- THE FOLLOWING EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO START OF CONSTRUCTION:

PERIMETER EROSION BARRIER
ERECT ALL SILT FENCES AS SHOWN ON THE EROSION CONTROL PLANS TO CONTROL SEDIMENT FROM THE RUNOFF LEAVING THE DISTURBED AREAS.

TREE PROTECTION
INSTALL TREE PROTECTION TO THE TREES SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN OR AS DIRECTED BY THE ENGINEER.
- THE FOLLOWING EROSION CONTROL MEASURE IS TO TAKE PLACE DURING GRADING:

TEMPORARY DITCH CHECK
INSTALL TEMPORARY DITCH CHECKS IN EXISTING DITCHES TO CONTROL RUNOFF VELOCITY AS SHOWN ON THE EROSION CONTROL PLAN OR AS DIRECTED BY ENGINEER.
- WITHIN 7 DAYS OF THE COMPLETION OF CLEARING OR GRADING OR WITHIN 14 DAYS OF LAST DISTURBANCE, THE FOLLOWING MEASURES SHALL BE ENFORCED:


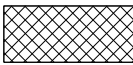
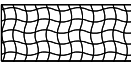





TEMPORARY STABILIZATION
PROVIDE TEMPORARY STABILIZATION OVER AREAS THAT CANNOT BE STABILIZED WITH PERMANENT VEGETATIVE MEASURE FOR 14 DAYS OR MORE AND CONSEQUENTLY REQUIRE TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. THESE AREAS SHALL BE TREATED WITH PERMANENT VEGETATIVE COVER AT SOME FUTURE DATE.

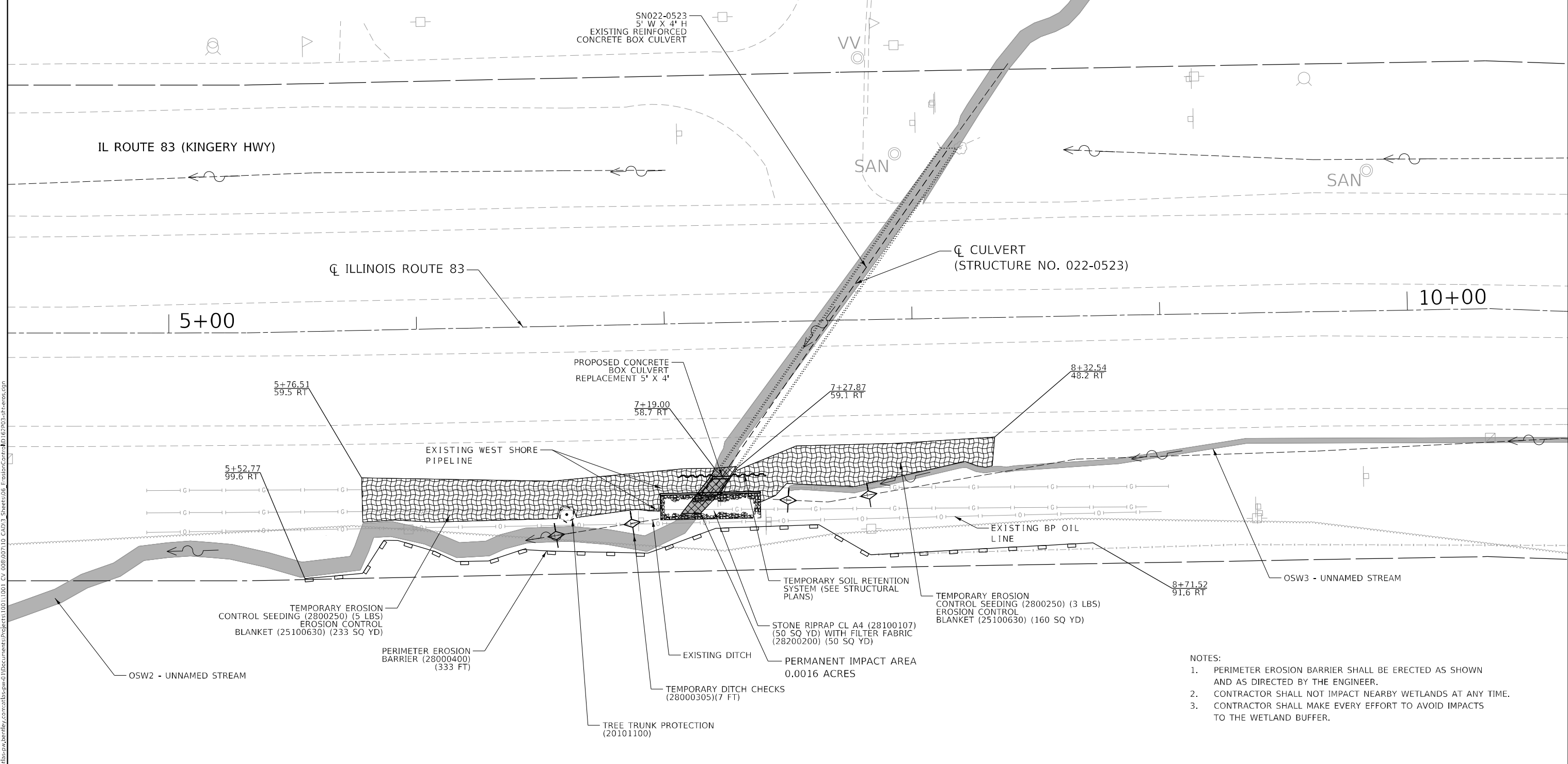
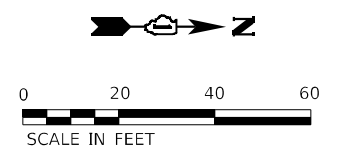
PERMANENT EROSION CONTROL
PROVIDE PERMANENT VEGETATION AND INSTALL ALL THE PERMANENT EROSION CONTROL MEASURES AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, BEFORE REMOVAL OF THE TEMPORARY EROSION CONTROL MEASURES.

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	USER NAME = cpujari	DESIGNED - CVP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN GENERAL NOTES				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN - CVP	REVISED -		344	2021-065-CR	DUPAGE	19	9				
PLOT DATE = 5/4/2023	CHECKED - BA	REVISED -	CONTRACT NO. 62P03										
	DATE -	REVISED -	SCALE: 1" = 50'		SHEET 1	OF 2	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT		

LEGEND

	PERIMETER EROSION BARRIER (28000400)		PERMANENT WETLAND IMPACT AREA
	TEMPORARY EROSION CONTROL SEEDING (2800250) EROSION CONTROL BLANKET (25100630)		STREAM/WETLAND
	STONE RIPRAP CL A4 (28100107) WITH FILTER FABRIC (28200200)		
	TEMPORARY DITCH CHECKS (28000305)		
	TREE TRUNK PROTECTION (20101100)		
	TEMPORARY SHEET PILING		



- NOTES:
1. PERIMETER EROSION BARRIER SHALL BE ERECTED AS SHOWN AND AS DIRECTED BY THE ENGINEER.
 2. CONTRACTOR SHALL NOT IMPACT NEARBY WETLANDS AT ANY TIME.
 3. CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID IMPACTS TO THE WETLAND BUFFER.

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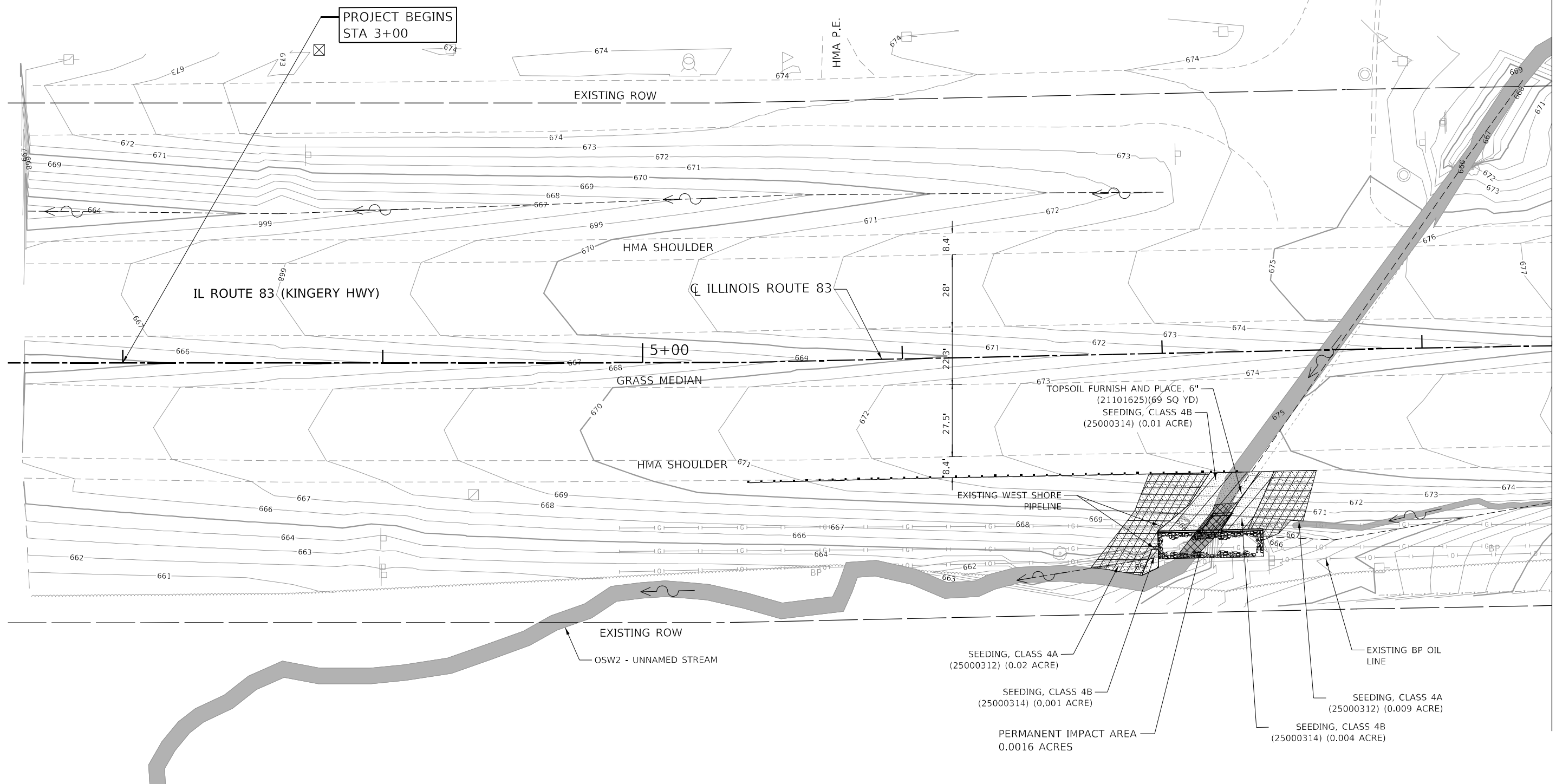
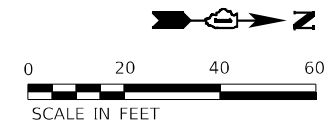
AEG ATLAS ENGINEERING GROUP, LTD.

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DRAWN - CVP	REVISED -	
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PLOT DATE = 5/11/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN
ILLINOIS RT 83 OVER DITCH 0.6 MILES SOUTH OF 91ST STREET
 SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	10
CONTRACT NO. 62P03			ILLINOIS FED. AID PROJECT	



MATCHLINE STA 8+50
IL ROUTE 83 (KINGERY HWY)

LEGEND

	SEEDING, CLASS 4A		PERMANENT WETLAND IMPACT AREA
	SEEDING, CLASS 4B		STREAM/WETLAND
	STONE RIPRAP, CLASS A4		

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AEG ATLAS ENGINEERING GROUP, LTD.

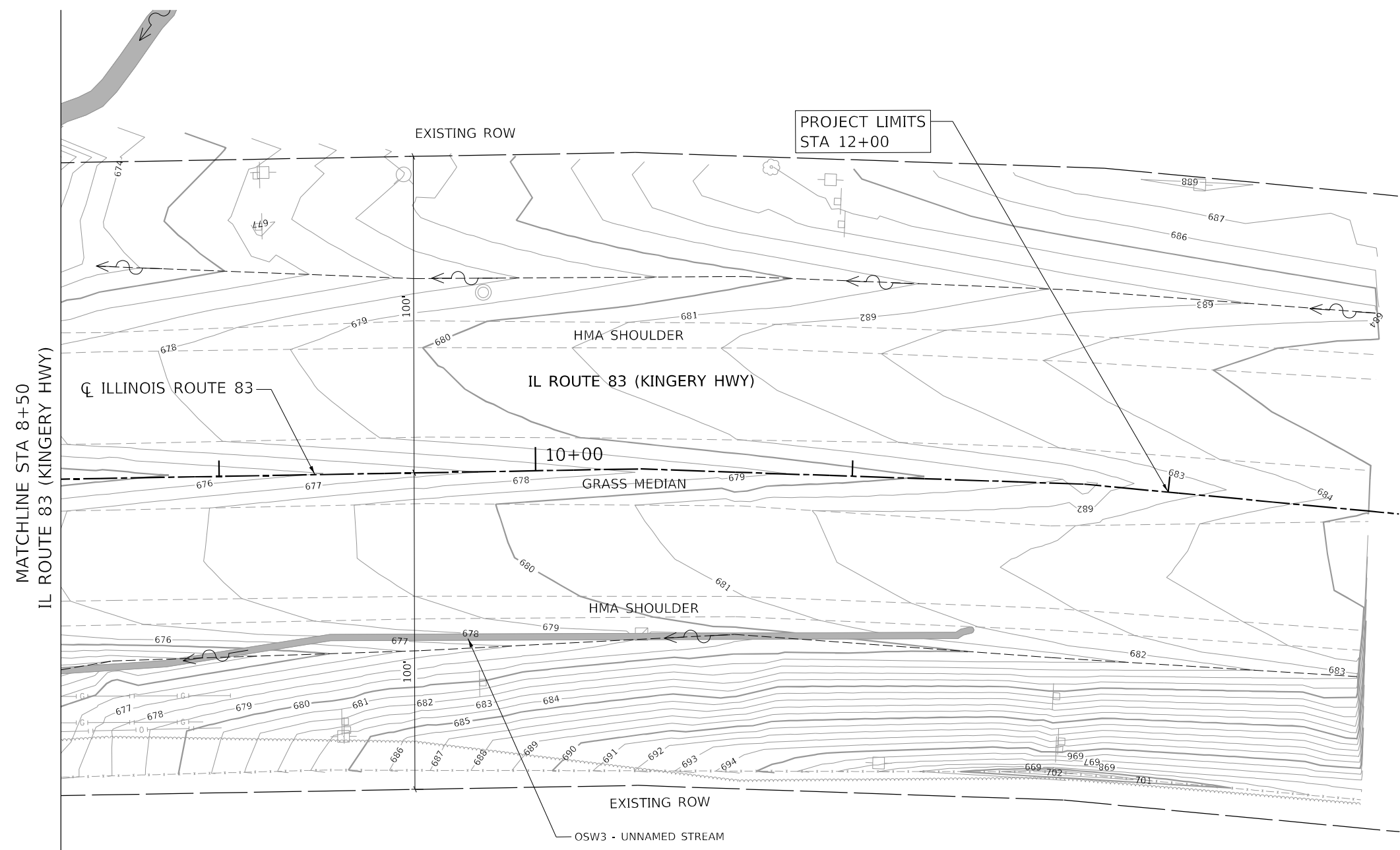
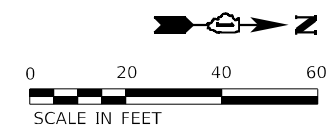
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PLOT DATE = 5/11/2023	CHECKED - BA	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
ILLINOIS RT 83 OVER DITCH 0.6 MILES SOUTH OF 91ST STREET**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	11
CONTRACT NO. 62P03				
ILLINOIS FED. AID PROJECT				

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



LEGEND

	SEEDING, CLASS 4A		PERMANENT WETLAND IMPACT AREA
	SEEDING, CLASS 4B		STREAM/WETLAND
	STONE RIPRAP, CLASS A4		

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USER NAME = cpujari
PLOT SCALE = 40,0000 * / in.
PLOT DATE = 5/4/2023

DESIGNED - SAS	REVISIED -
DRAWN - SAS	REVISIED -
CHECKED - BA	REVISIED -
DATE -	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
ILLINOIS RT 83 OVER DITCH 0.6 MILES SOUTH OF 91ST STREET
 SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	12
CONTRACT NO. 62P03				
ILLINOIS FED. AID PROJECT				

Benchmark: Top of Right wall at S. Bend cut square, Northing 1838700.05, Easting 1090187.87
Elevation 670.72

Existing Structure: S.N. 022-0523 is a 175' long box culvert, skewed in the northwest to southeast direction and conveys ditch flows from the west side to the east side of the roadway. The 14' long downstream stone culvert section will be removed and replaced with a 9'-2" long reinforced concrete box culvert of the same hydraulic capacity.

Salvage: No

ATLAS ENGINEERING GROUP, LTD.
Date: 03-14-2023
Mehmet Basar Civelek
Mehmet Basar Civelek
Expires: 11-30-24
Sheet No.: 13-17

DESIGN STRESSES

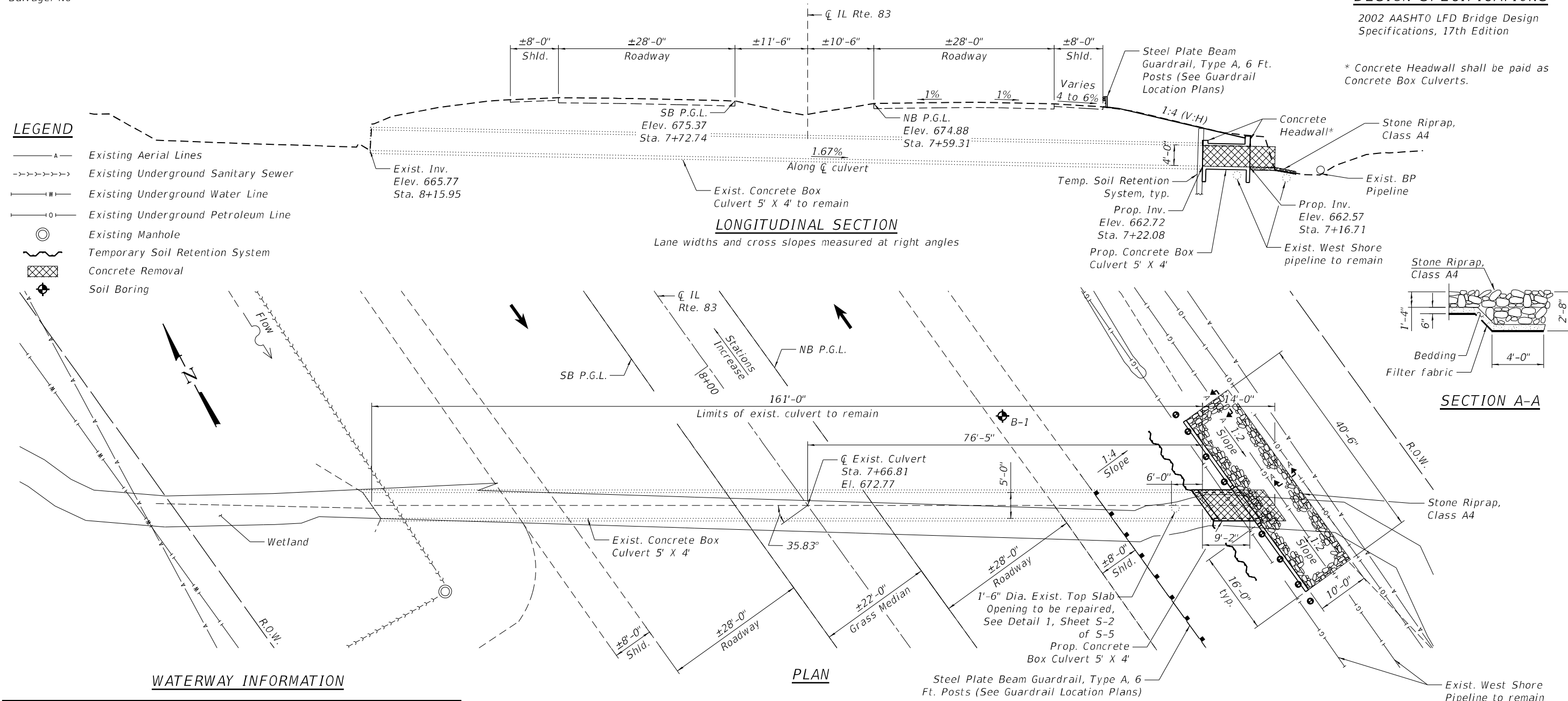
$f'_c = 3,500$ psi (Box Culvert and Drilled Shafts)
 $f'_c = 4,000$ psi (Concrete Facing for Soldier Piles)
 $f_y = 60,000$ psi (Reinforcement)

LOADING HS 20-44

DESIGN SPECIFICATIONS

2002 AASHTO LFD Bridge Design Specifications, 17th Edition

* Concrete Headwall shall be paid as Concrete Box Culverts.



LEGEND

- Existing Aerial Lines
- >->->- Existing Underground Sanitary Sewer
- Existing Underground Water Line
- Existing Underground Petroleum Line
- ⊙ Existing Manhole
- ~ Temporary Soil Retention System
- ▣ Concrete Removal
- ⊕ Soil Boring

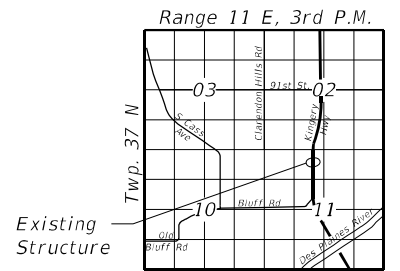
WATERWAY INFORMATION

Drainage Area = 0.08453 sq.mi.
Existing Overtopping Elevation 675.4 @ Sta. 7+81**
Proposed Overtopping N/A @ Sta. N/A

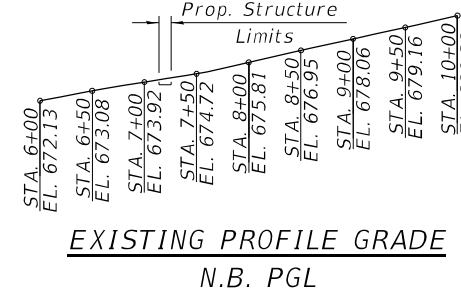
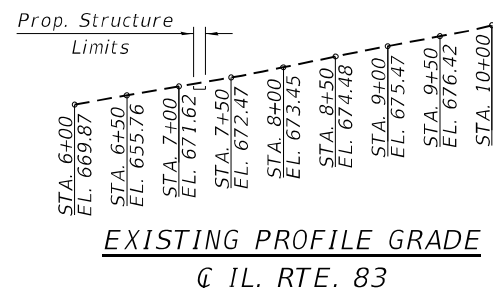
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
10 Year	10	57.9	12.3	N/A	667.1	1.2	N/A	668.3	N/A	
Design	50	108.5	18.7	N/A	667.5	2.1	N/A	669.6	N/A	
Base	100	138.6	20.0	N/A	667.7	2.6	N/A	670.3	N/A	
Overtop. Existing	>100	375.0	20.0	N/A						
Overtop. Proposed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Max. Calc.	100	138.6	20.0	N/A	667.7	2.6	N/A	670.3	N/A	

** Low edge of pavement for the area upstream of the culvert.

Range 11 E, 3rd P.M.



LOCATION SKETCH



GENERAL PLAN AND ELEVATION
IL RTE. 83 OVER DRAINAGE DITCH
0.6 MILES SOUTH OF 91ST STREET
F.A.P. 344 - SEC. 2021-065-CR
DUPAGE COUNTY
STA. 7+66.81
STRUCTURE NO. 022-0523

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5/11/2023 10:45:57 AM

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	PLOT SCALE =	DRAWN - JI	REVISED -			344	2021-065-CR	DUPAGE	19	13
	PLOT DATE =	CHECKED -	REVISED -	SHEET S-1 OF S-5 SHEETS		ILLINOIS FED. AID PROJECT		CONTRACT NO. 62P03		

INDEX OF STRUCTURAL SHEETS

- S-1. General Plan & Elevation
- S-2. General Data
- S-3 - S-4. Culvert Details
- S-5. Boring Log

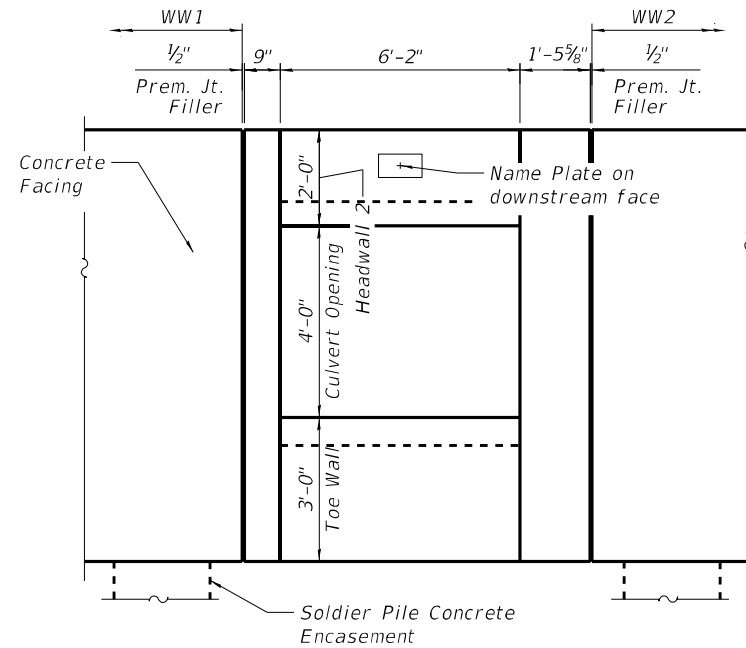
GENERAL NOTES

1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60.
3. Reinforcement bars designated (E) shall be epoxy coated.
4. Exposed edges shall be chamfered $\frac{3}{4}$ ", unless noted otherwise.
5. Construction joints shall be bonded in accordance with section 503.09(b) of the Standard Specifications.
6. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
7. A temporary soil retention system design is not included in the bid documents. The Contractor shall submit a temporary soil retention system design including plan, details and calculations for review and acceptance by the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	191
Stone Riprap, Class A4	Sq. Yd.	50
Filter Fabric	Sq. Yd.	50
* Concrete Removal	Cu. Yd.	9
Structure Excavation	Cu. Yd.	204
Stud Shear Connectors	Each	64
Reinforcement Bars, Epoxy Coated	Pound	2,053
Name Plates	Each	1
*** Temporary Soil Retention System	Sq. Ft.	154
Furnishing Soldier Piles (HP Section)	Foot	132
Drilling and Setting Soldier Piles (in Soil)	Cu. Ft.	415
Untreated Timber Lagging	Sq. Ft.	352
Expansion Bolts $\frac{3}{4}$ "	Each	14
Concrete Box Culverts	Cu. Yd.	15
Geocomposite Wall Drain	Sq. Yd.	32
** Cleaning and Painting Exposed Rebar	L. Sum	1
** Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1

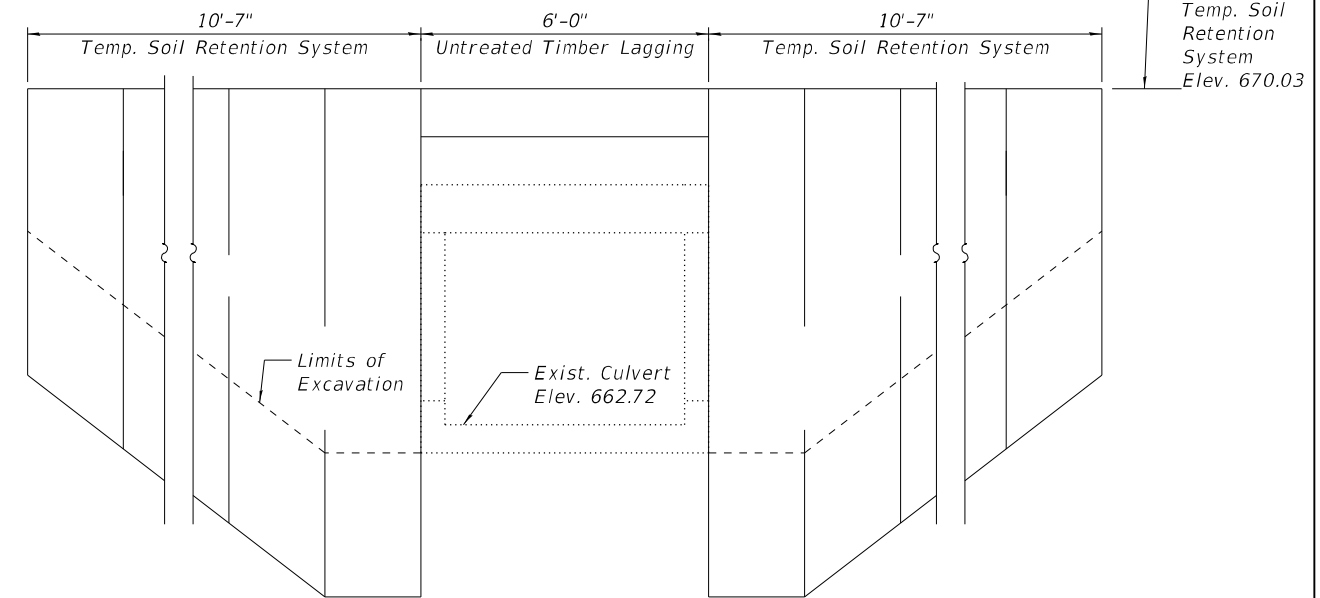
* Stone culvert section removal shall be paid as Concrete Removal.
 ** See Special Provision.
 *** See General Note 7.



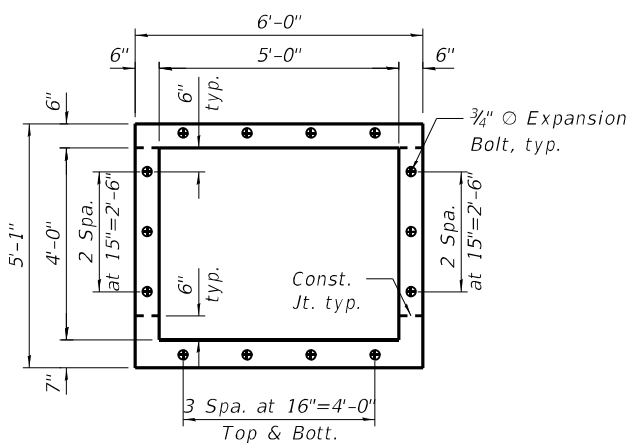
DEVELOPED END ELEVATION

STATION 7+66.81
 BUILT BY
 STATE OF ILLINOIS
 F.A.P. 344 - SEC. 2021-065-CR
 LOADING HS20
 STRUCTURE NO. 022-0523

NAME PLATE
 See Std. 515001

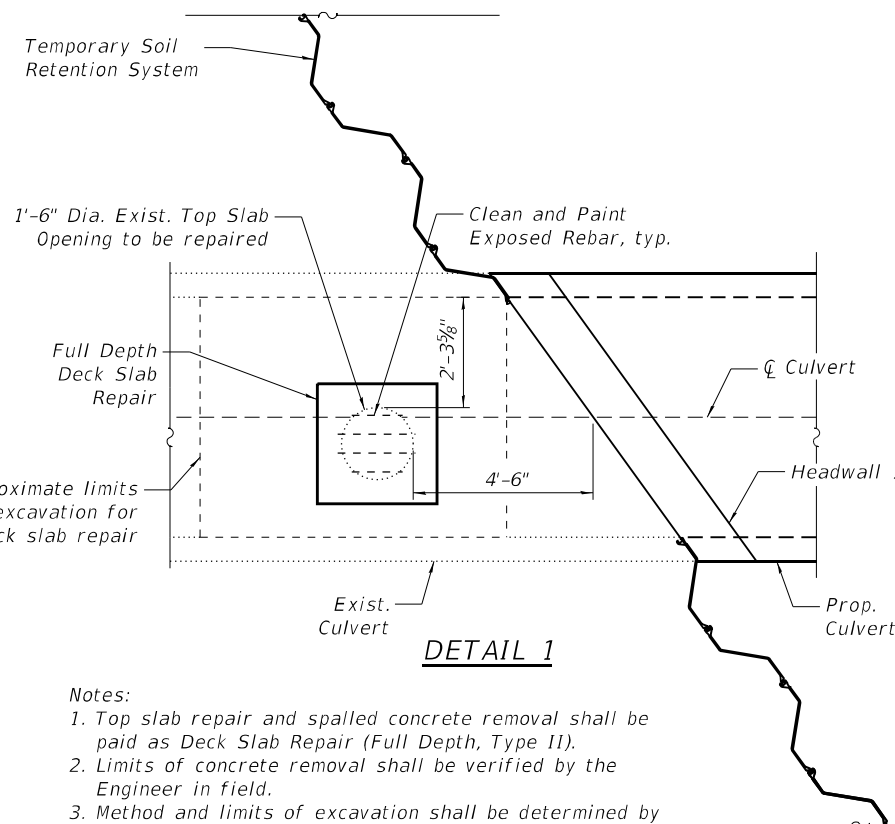


ELEVATION - TEMPORARY SOIL RETENTION SYSTEM



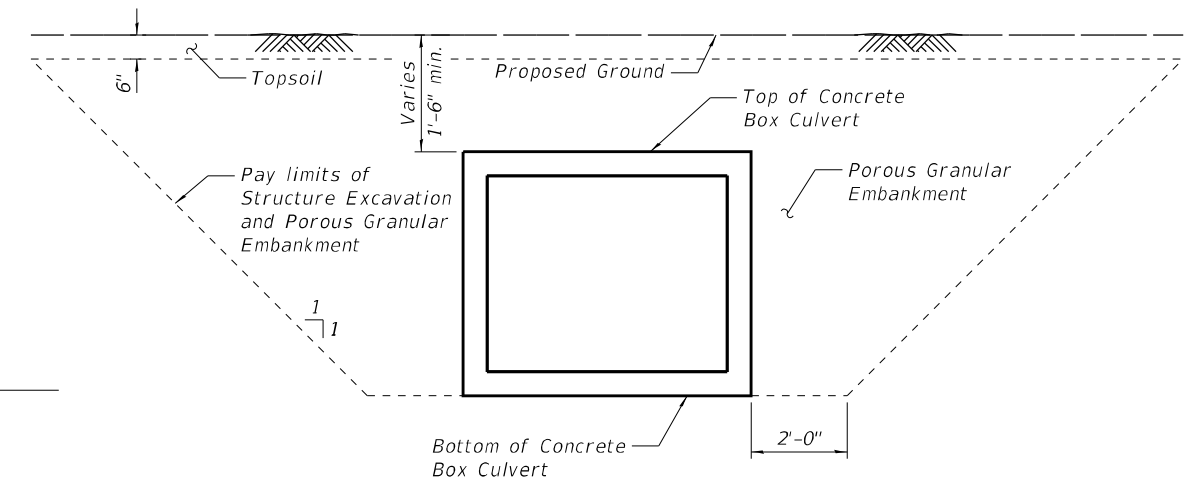
EXPANSION BOLT LOCATION

Note: Expansion Bolts shall be $\frac{3}{4}$ " \odot hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete.



DETAIL 1

- Notes:
1. Top slab repair and spalled concrete removal shall be paid as Deck Slab Repair (Full Depth, Type II).
 2. Limits of concrete removal shall be verified by the Engineer in field.
 3. Method and limits of excavation shall be determined by the Contractor.



BACKFILL COMPONENTS OF CULVERT CROSS SECTION

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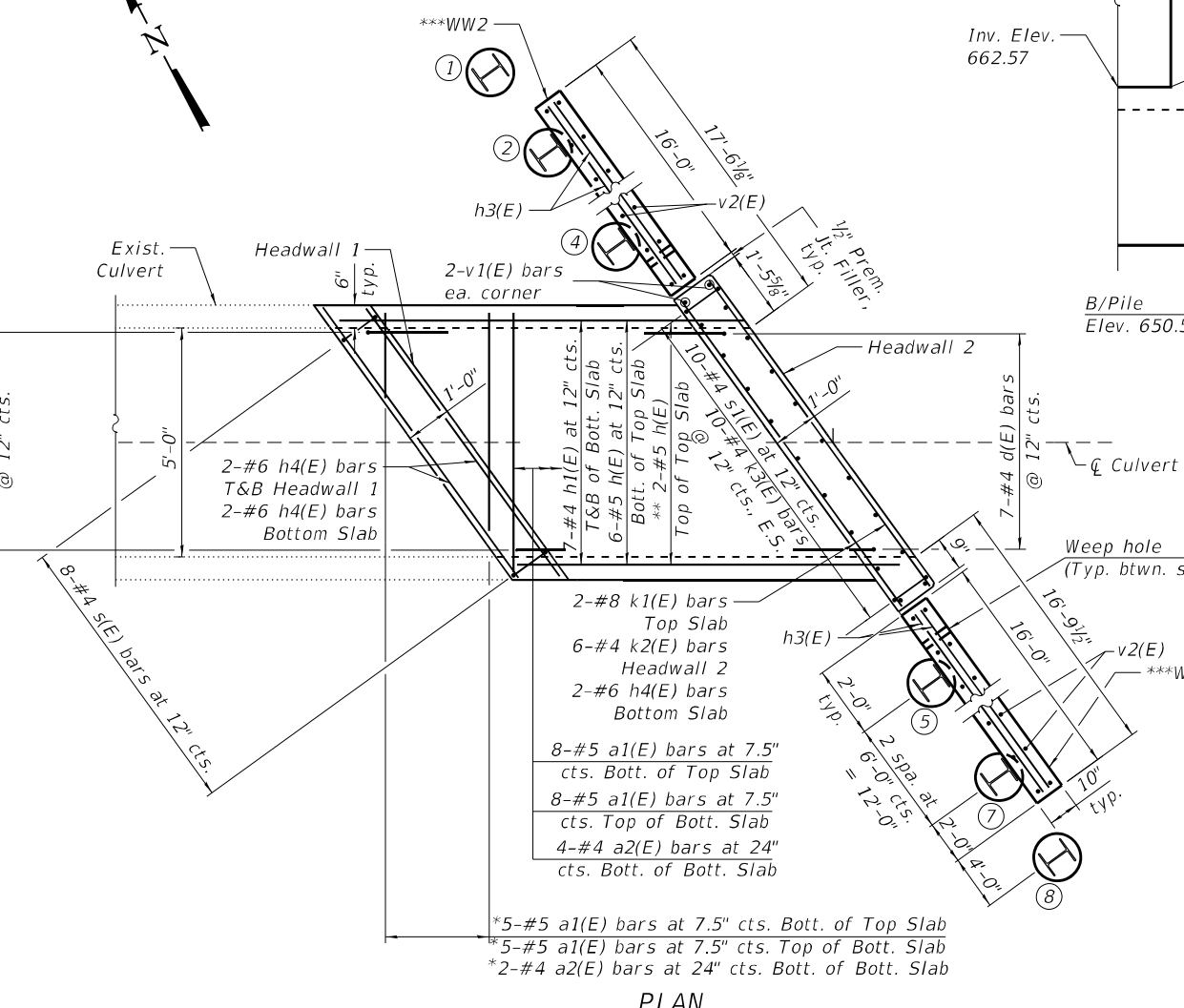
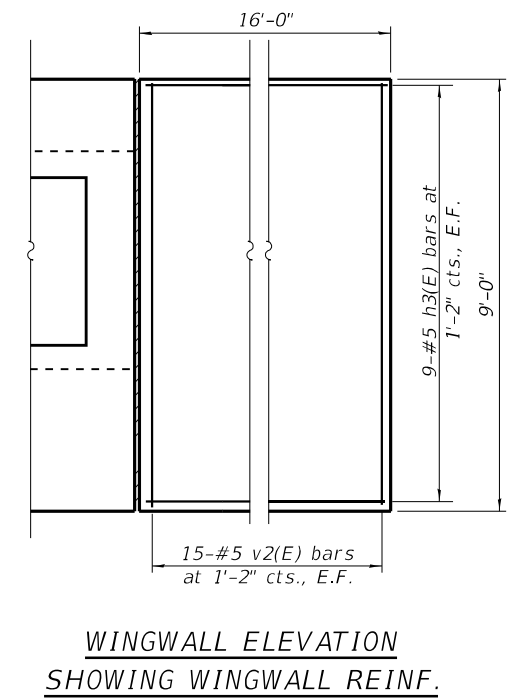
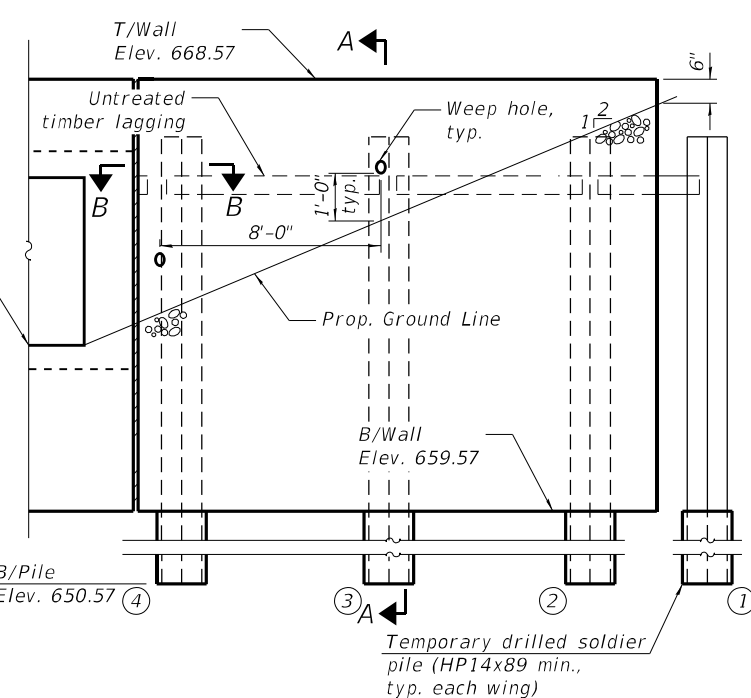
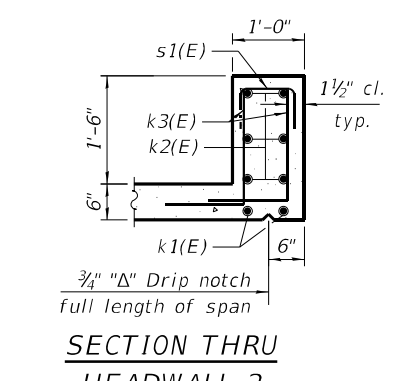
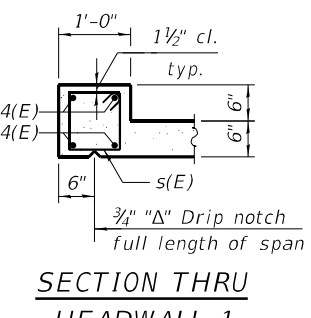
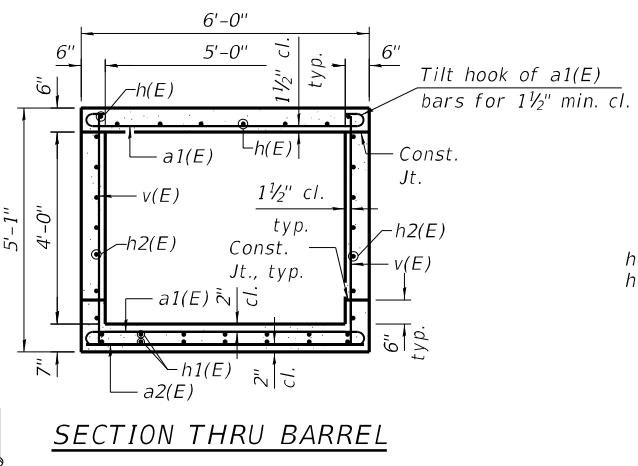
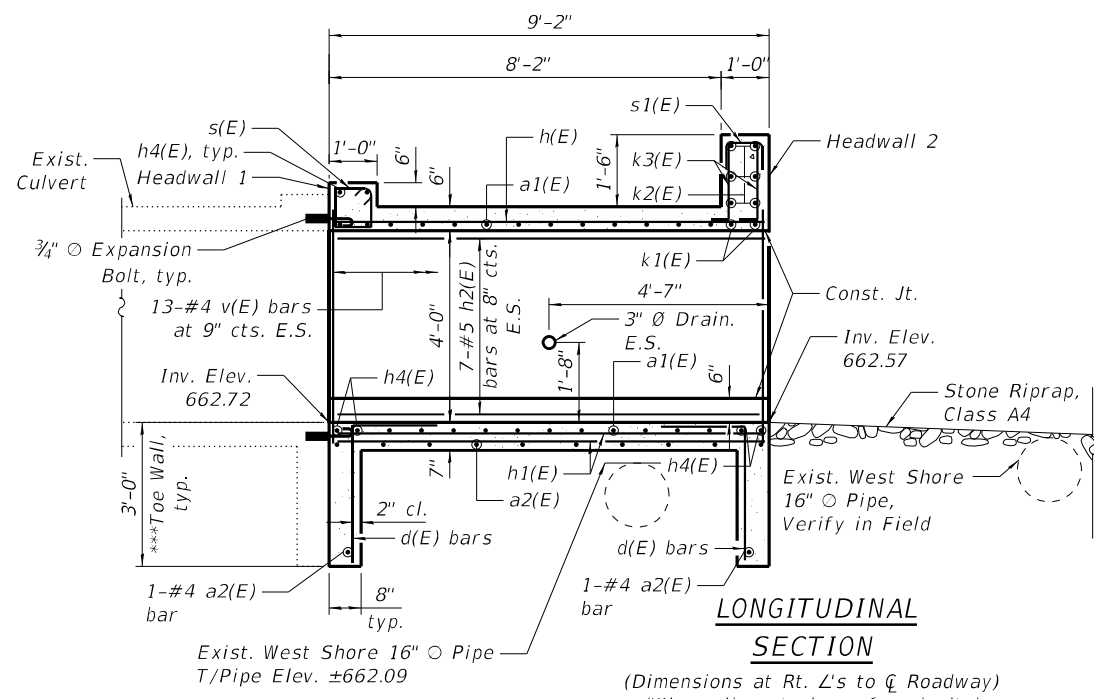
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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SHEET S-2 OF S-5 SHEETS		CONTRACT NO. 62P03				

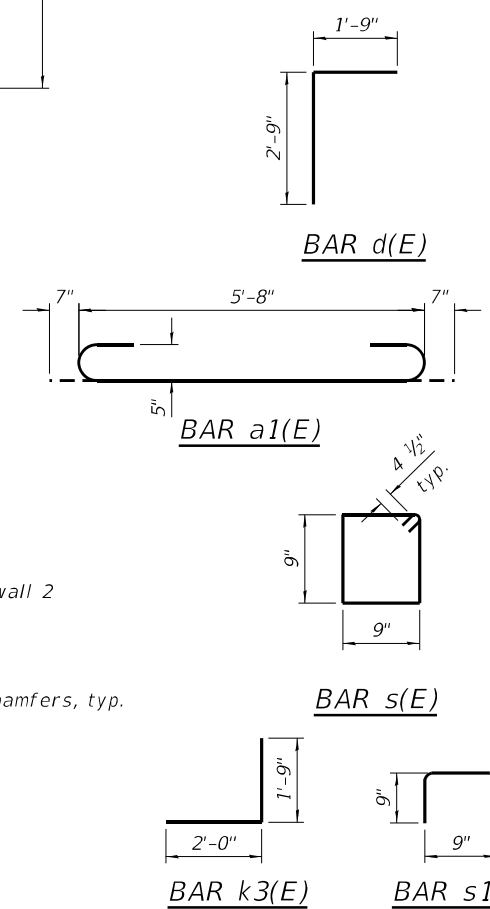
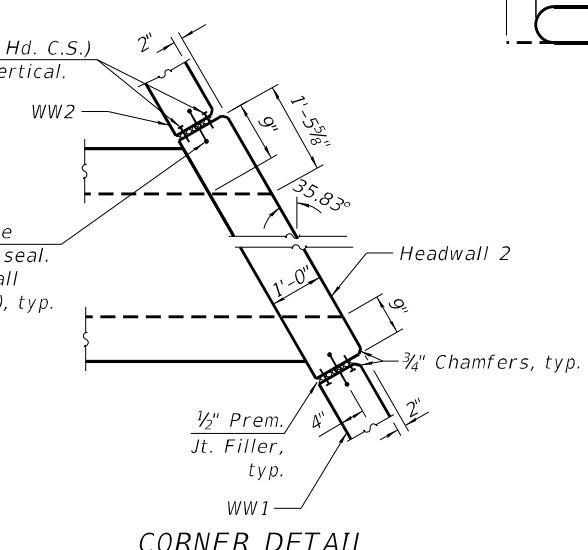
ILLINOIS	FED. AID PROJECT
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BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	26	#5	6'-10"	
a2(E)	8	#4	5'-9"	
d(E)	14	#4	4'-6"	
h(E)	8	#5	8'-11"	
h1(E)	14	#4	8'-11"	
h2(E)	14	#5	8'-11"	
h3(E)	36	#5	15'-9"	
h4(E)	8	#6	6'-0"	
k1(E)	2	#8	8'-0"	
k2(E)	6	#4	8'-0"	
k3(E)	20	#4	3'-9"	
s(E)	8	#4	3'-9"	
s1(E)	10	#4	2'-3"	
v(E)	26	#4	4'-9"	
v1(E)	4	#6	8'-9"	
v2(E)	60	#5	8'-9"	
Concrete Box Culverts	Cu. Yd.		15	
Reinforcement Bars, Epoxy Coated	Pound		2,053	
Furnishing Soldier Piles (HP Section)	Foot		132	
Drilling and Setting Soldier Piles (In soil)	Cu. Ft.		415	
Untreated Timber Lagging	Sq. Ft.		352	
Geocomposite Wall Drain	Sq. Yd.		32	
Stud Shear Connectors	Each		64	



- Notes:**
1. B.F. denotes Back Face
 2. F.F. denotes Front Face
 3. E.S. denotes Each Side
 4. E.F. denotes Each Face
 5. T&B denotes Top and Bottom
 6. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
 7. For Sections A-A and B-B, see Sheet S-4.
- * "a" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert. Cut bars to have hook on both ends.
- ** See Section Thru Barrel.
- *** Concrete Wingwalls and Toe Walls shall be paid as Concrete Box Culverts.



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AEG ATLAS ENGINEERING GROUP, LTD.	USER NAME =	DESIGNED - JI	REVISED -
	CHECKED - JKL	REVISIONS -	
	PLOT SCALE =	DRAWN - JI	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

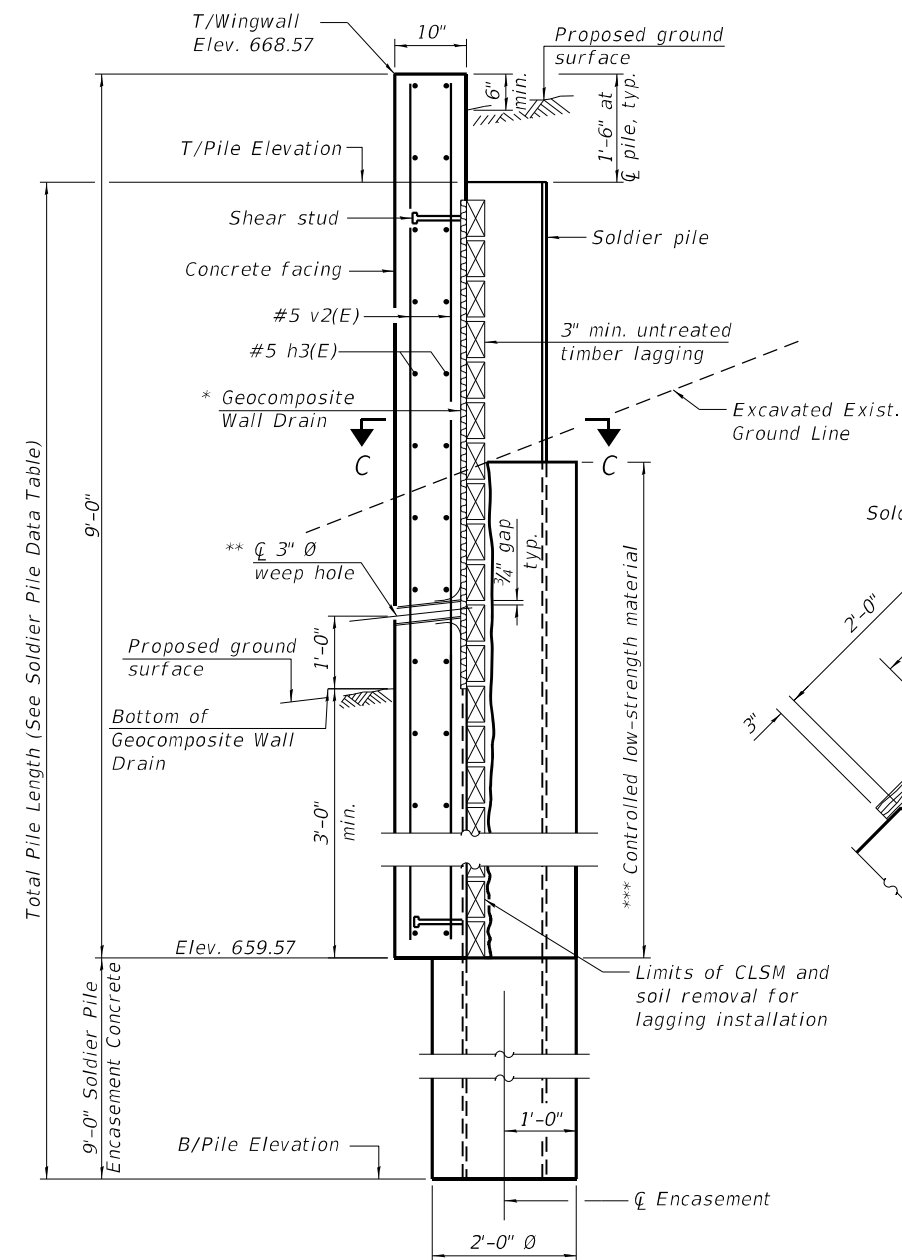
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS
STRUCTURE NO. 022-0523**

SHEET S-3 OF S-5 SHEETS

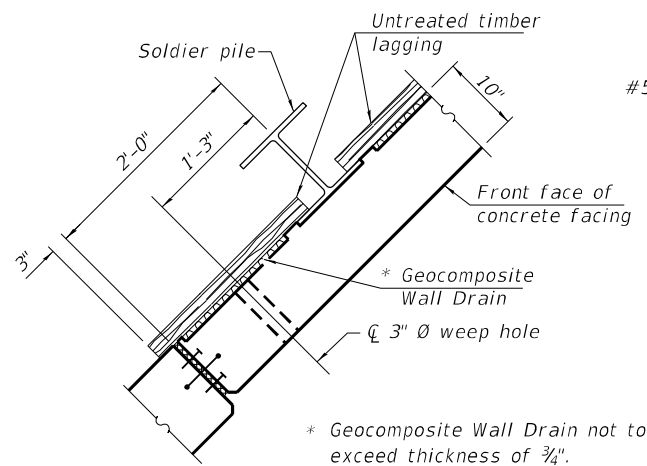
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344	2021-065-CR	DUPAGE	19	15
CONTRACT NO. 62P03				
ILLINOIS FED. AID PROJECT				

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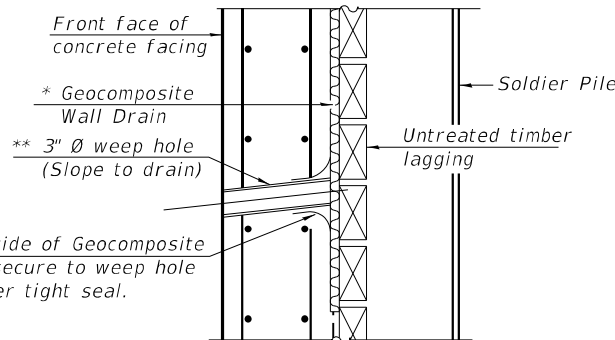
SECTION A-A

*** Cost of controlled low-strength material is included in cost of Drilling and Setting Soldier Piles (in Soi) pay item.



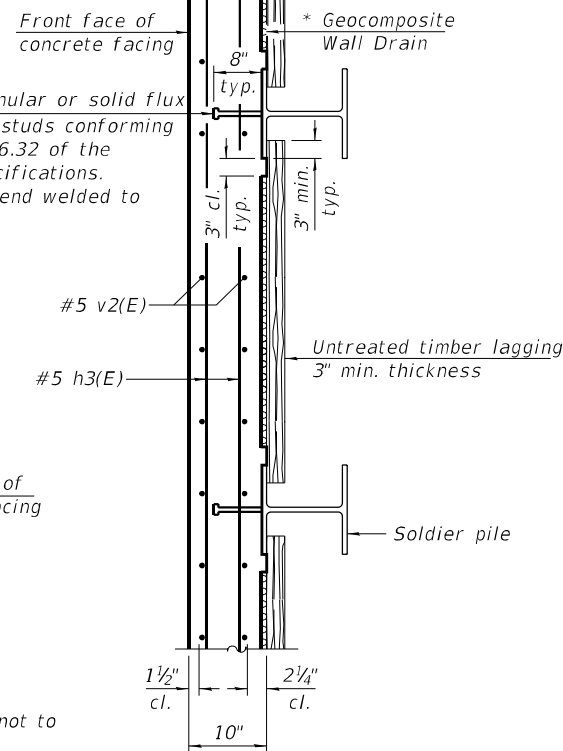
SECTION B-B

Cut impervious side of Geocomposite Wall Drain and secure to weep hole to ensure a water tight seal.

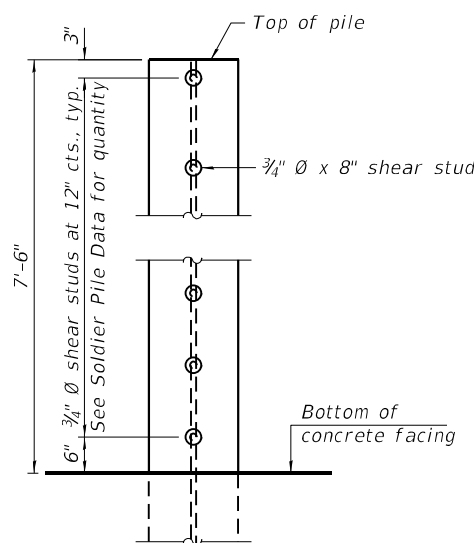


WEEP HOLE DRAIN DETAIL

** Cost of the weep hole drain and connection to the Geocomposite Wall Drain are included in the cost of Concrete Box Culverts.



SECTION C-C



SHEAR STUD DETAIL
(Elevation of pile shown)

SOLDIER PILE WINGWALL CONSTRUCTION SEQUENCE

1. Construct concrete box culvert.
2. Drill soldier piles (may be completed prior to completing construction of box culvert).
3. Install timber lagging.
4. Place and compact backfill behind wingwall to top of timber lagging.
5. Install shear stud connectors.
6. Place reinforcement and form concrete wall face.
7. Cast concrete wingwall facing.
8. Remove temporary soldier pile and timber lagging outside limits of the wingwall.
9. Place remainder of backfill to proposed ground surface elevations on both sides of wall (backfill front side of wall as much as possible before backfilling is completed).

Notes:

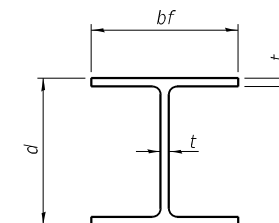
The temporary soldier pile is required to facilitate backfilling of the wingwall prior to casting the concrete face. The temporary soldier pile shall conform to the construction requirements for permanent soldier piles except material for the temporary soldier pile may be new or used. After the concrete face has been allowed to cure, the temporary soldier pile shall be removed 2 ft below ground along with the adjacent timber lagging. Cost of removing and disposing temporary soldier pile and timber lagging shall be included in the cost of Concrete Box Culverts.

In order to minimize excessive deflection and/or stresses in the soldier piles, compaction equipment used within 4 ft of the back face of the timber lagging shall be limited to lightweight mechanical tampers, rollers, or vibratory systems.

The Contractor is responsible for the design and performance of the timber lagging using no less than a 3 inch nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.

SOLDIER PILE DATA

Soldier Pile	Pile Size	T/Pile Elevation	B/Pile Elevation	Total Pile Length (Ft.)	Number of Shear Studs
1	HP14x89	667.07	650.57	16.5	8
2	HP14x89	667.07	650.57	16.5	8
3	HP14x89	667.07	650.57	16.5	8
4	HP14x89	667.07	650.57	16.5	8
5	HP14x89	667.07	650.57	16.5	8
6	HP14x89	667.07	650.57	16.5	8
7	HP14x89	667.07	650.57	16.5	8
8	HP14x89	667.07	650.57	16.5	8



STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x89	13 7/8"	14 3/4"	5/8"	24"

USER NAME =	DESIGNED - JI	REVISED -
PLOT SCALE =	CHECKED - JKL	REVISED -
PLOT DATE =	DRAWN - JI	REVISED -
	CHECKED -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	16
			CONTRACT NO. 62P03	
		ILLINOIS FED. AID PROJECT		



SOIL BORING LOG

Date 7/22/22

ROUTE IL 83 DESCRIPTION IL 83 Culvert over Ditch LOGGED BY AA

SECTION 0.6 miles south of 91st Street LOCATION SEC. 11, TWP. 37N, RNG. 11E

Latitude 41.714125, Longitude 87.9449056

COUNTY DUPAGE DRILLING RIG CME 75 DRILLING METHOD HSA HAMMER TYPE AUTO HAMMER EFF (%) 91

STRUCT. NO. 022-0523 Station 7+23.4
 BORING NO. B-1 Station Offset
 Ground Surface Elev. 673.00 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	SPT (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	SPT (%)
0				9 inches of Asphalt				
0				2 inches of Aggregate Subbase				
0				Brown and Gray, Moist FILL: SILTY CLAY, trace sand, gravel	3	4	4.2	12
0					4	5	B	
0				Organic content at 3.5 feet = 2.6%	3	2	1.7	18
0					4	3	B	
0					5	2		
0					6	3	1.3	19
0					7	3	B	
0				Medium Stiff Dark Gray, Moist SILTY CLAY, trace sand, gravel (CL/ML)	9	1	0.6	24
0					10	1	B	
0				Hard Brown, Moist SILTY CLAY, trace sand, gravel (CL/ML)	11	3	5.6	16
0					12	9	B	
0					13	3		
0					14	6	5.4	14
0					15	10	B	
0				Sand seam at 16.5 feet	16	7		
0					17	11	4.5	12
0					18	12	P	
0				Stiff to Hard Gray, Moist CLAY, trace sand, gravel (CL)	19	2	2.7	12
0					20	5	B	
0					21	6		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

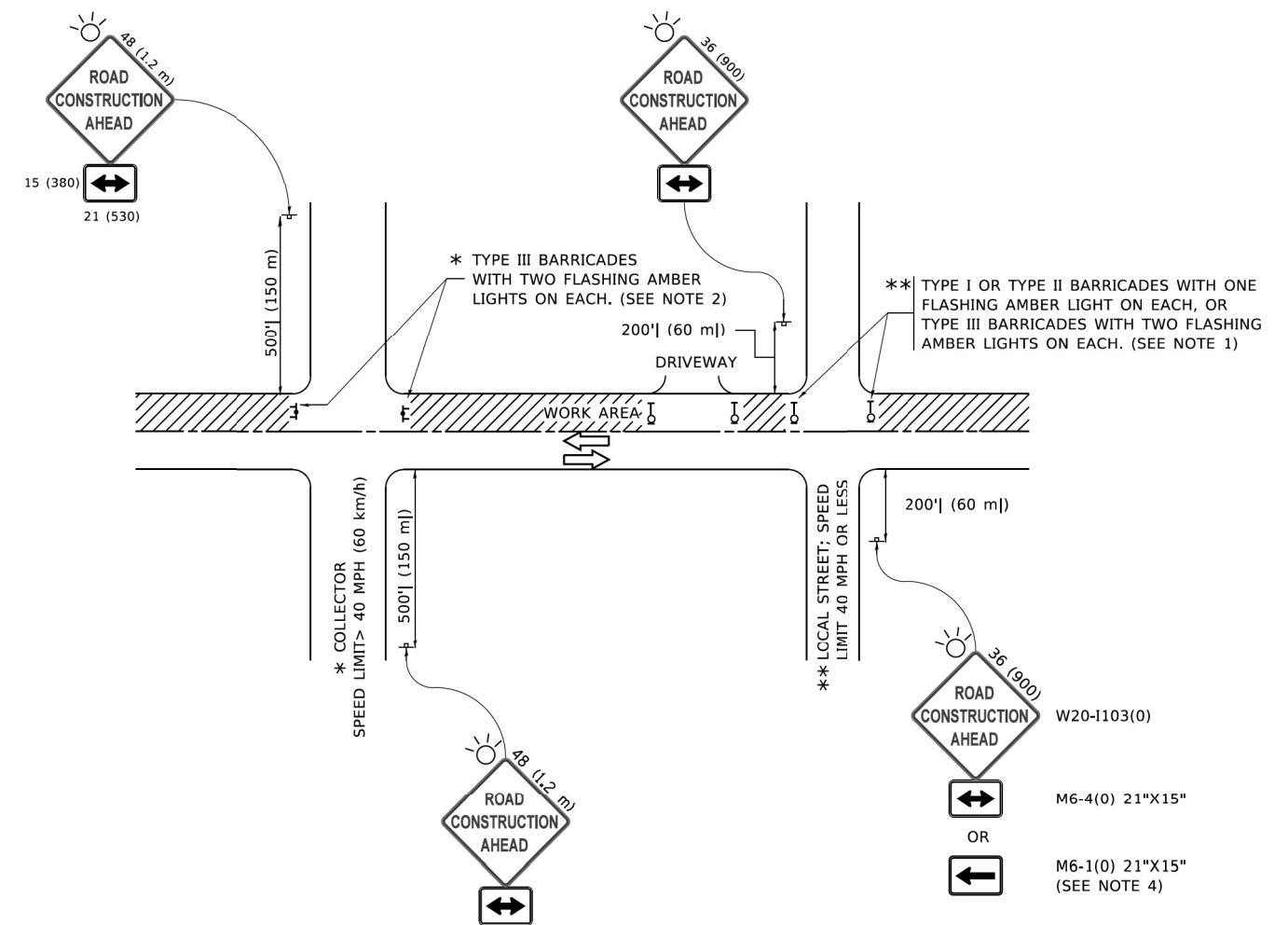
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	PLOT SCALE =	DRAWN - JI	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOG
 STRUCTURE NO. 022-0523
 SHEET S-5 OF S-5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	17
			CONTRACT NO. 62P03	
		ILLINOIS FED. AID PROJECT		



NOTES:

- 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:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN 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).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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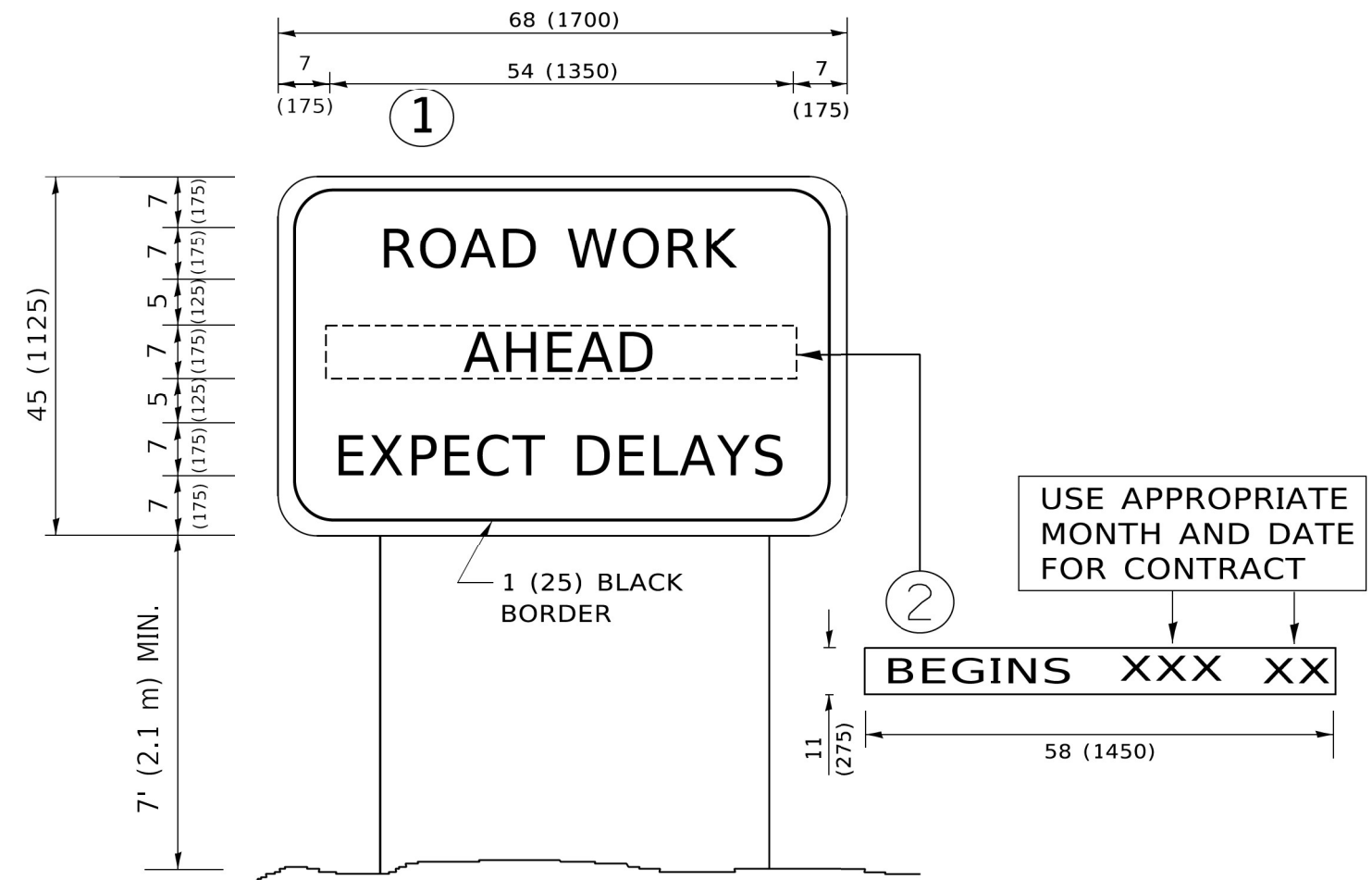
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PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	18
TC-10			CONTRACT NO. 62P03	
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2021-065-CR	DUPAGE	19	19
TC-22			CONTRACT NO. 62P03	
ILLINOIS FED. AID PROJECT				