03-08-13 LETTING ITEM 125

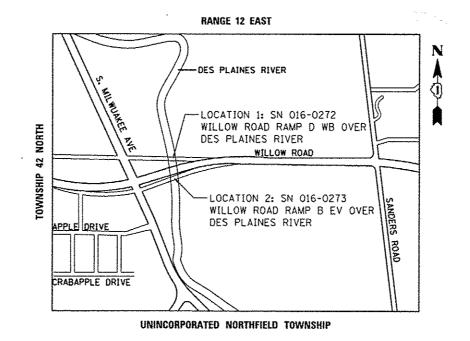
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

FAP ROUTE 330 (WILLOW ROAD)
SECTION 2012–068 I
EB & WB RAMPS OVER DES PLAINES RIVER
SCOUR COUNTERMEASURES (RIP RAP)
COOK COUNTY
C-91–063–13



D-91-063-13

2012-068

COOK 15 1

ILLINOIS CONTRACT NO. 60V73

AO DAVIESS STEPPENSON BIMEDAGO GOORE MC HEMRY LAXE

CARROLL OCLE

THOSE ISLAND

HEMRY BUREAU

LA SALLE GRANDY

FUTNALL

WARSHALL

LIVINGSTON

FROMAL

PARSON ENDX PEORIA WOODFORD IRROUNDS

PARSON FIATON TAZENCILL MC LEAM FORD

IRROUNDS

SONJETER MASON LOGAN GE WITT CHAMPAICN VERNILLOM

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PROFESSIONAL ENGINEER'S SIGN & SEAL

LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED DECEMBER (1 20 12

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

TO 1 29 13

DIVIN D. CONTROLL P.E. A.

ENGINEER OF DESIGN AND ENVIRONMENT

20 13

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

GREF 8501 W. Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

FOR INDEX OF SHEETS, SEE SHEET NO. 2

#### TRAFFIC DATA:

0

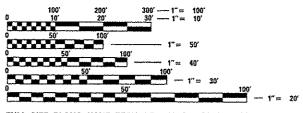
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WILLOW ROAD
EXISTING ADT (2012) = 5,100 - 7,500
SPEED LIMIT = 40 MPH

THIS PROJECT IS LOCATED IN THE UNINCORPORATED NORTHFIELD TOWNSHIP.



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

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: PETER JOHNSTON (GRAEF) 773-399-0112 PROJECT MANAGER: KEN ENG (IDOT) 847-705-4247

CONTRACT NO. 60V73

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

### INDEX OF SHEETS

#### SHEET

#### DESCRIPTION

- 1 COVER SHEET
- 2 INDEX, HIGHWAY STANDARDS, AND GENERAL NOTES
- S SUMMARY OF QUANTITIES
- 4 LOCATION MAP
- 5 SN 016-0272 WILLOW ROAD RAMP D OVER DES PLAINES RIVER SITE PLAN
- 6 SN 016-0272 WILLOW ROAD RAMP D OVER DES PLAINES RIVER
- 7 . SN 016-0272 WILLOW ROAD RAMP D OVER DES PLAINES RIVER CROSS SECTIONS
- 8 SN 016-0273 WILLOW ROAD RAMP B OVER DES PLAINES RIVER SITE PLAN
- 9 SN 016-0273 WILLOW ROAD RAMP 8 OVER DES PLAINES RIVER
- 10 SN 016-0273 WILLOW ROAD RAMP B OVER DES PLAINES RIVER CROSS SECTIONS

#### 11-13 DEWATERING SYSTEM DETAILS

- 14 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC 10)
- 15 ARTERIAL ROAD INFORMATION SIGNING (TC22)

### **HIGHWAY STANDARDS**

STD. NO. TITLE

701101~03 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE 701601~08 URBAN LANE CLOSURE MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701901~02 TRAFFIC CONTROL DEVICES

#### **GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 OR (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 3. ALL PERMITS AND FEES NEEDED TO OBTAIN ACCESS TO VARIOUS LOCATIONS FROM VILLAGE LAND OR FOREST PRESERVE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE COST OF THE STONE RIPRAP.
- 4. EXCAVATION INTO THE STREAM BED FOR STONE RIPRAP INSTALLATION SHALL NOT BE DEEPER THAN THE BOTTOM OF THE FOOTING ON THE PIER OR ABUTMENT TO BE PROTECTED.
- . DEBRIS REMOVAL, IF ENCOUNTERED, SHALL BE INCLUDED IN THE COST OF THE STONE RIPRAP.
- 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS & CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION ORDERING OF MATERIAL.
- 7. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 8. ALL AREAS (INCLUDING WETLAND AREAS) OUTSIDE THE LIMITS OF RIPRAP PLACEMENT AND/OR EXCAVATION WHICH ARE DISTURBED (WHERE EXISTING SOIL CONTOURS HAVE BEEN ALTERED AND/OR EXISTING VEGETATION HAD BEEN DESTROYED BY THE CONTRACTORS OPERATIONS) SHALL BE RESTORED BY REGRADING TO THE ORIGINAL CONTOURS AND/OR SEEDING WITH SEEDING, CLASS 4, AND MULCHING WITH EROSION CONTROL BLANKETS. PLACE TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKETS AS NEEDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COSTS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICES FOR THE CONSTRUCTION ITEMS INVOLVED, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ANY BRUSH AND TREE REMOVAL TO GET ACCESS SHOULD BE INCIDENTAL TO THE COST OF THE STONE RIPRAP.
- 10. THE CONTRACTOR IS ADVISED TO AVOID OR MINIMIZE ANY DISTURBANCE TO EXISTING VEGETATION OUTSIDE THE LIMITS OF RIPRAP PLACEMENT AND CHANNEL EXCAVATION.
- 11. THE CONTRACTOR MUST PROTECT PAVEMENT WHEN DUMPING RIPRAP ONTO PAVEMENT AND WILL BE RESPONSIBLE FOR RESTORING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS.

- 12. ANY GUARDRAIL OR SIGNS DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE REPLACED IN KIND AT THE CONTRACTORS EXPENSE.
- 13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 15. THE CONTRACTOR SHALL COMPLETE ALL WORK OVER THE SIDE OF THE BRIDGE USING DAYTIME LANE CLOSURES ONLY. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED WHEN THE CONTRACTOR IS NOT WORKING.
- 16. THE CONTRACTOR SHALL SUBMIT DEWATERING AND SEDIMENT CONTROL PLANS FOR EACH SITE TO THE ENGINEER FOR APPROVAL.
- 17. THE CONTRACTOR SHALL CONTACT THE ENGINEER AFTER DEWATERING FOR FINAL RIPRAP PLACEMENT.
- 18. UNLESS OTHERWISE NOTED, EXCAVATION OF MATERIAL REQUIRED TO INSTALL STONE RIPRAP SHALL BE INCLUDED IN THE ITEM BEING INSTALLED.
- 19. 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.
- 20. DIRECTION INDICATOR BARRICADES SHALL BE EXCLUSIVELY USED IN ALL LANE CLOSURE TAPERS. CONES, DRUMS, TYPE I, TYPE II BARRICADES, OR VERTICAL BARRICADES WILL NOT BE ALLOWED TO BE USED IN LANE CLOSURE TAPERS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED, AND THE COST SHALL BE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC CONTROL. STANDARD 701601 PAY ITEM.

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	PLQT DATE * 12/11/2012	DATE - 12-20-2012	REVISE

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20300100	CHANNEL EXCAVATION	CU YD	200	115	85
28100109	STONE RIPRAP, CLASS A5	\$0 Y0	736	460	276
28200200	FILTER FABRIC	SO YD	433	273	160
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	L SUM		0. 50	0.50
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	The state of the s	0.50	0.50
X0301852	DEWATERING STRUCTURE NO. 1	EACH		1	
X0301853	DEWATERING STRUCTURE NO. 2	EACH	***************************************		1
20030850	TEMPORARY INFORMATION SIGNING	SO FT	102	51	51

G . DENOTES SPECIALTY ITEM

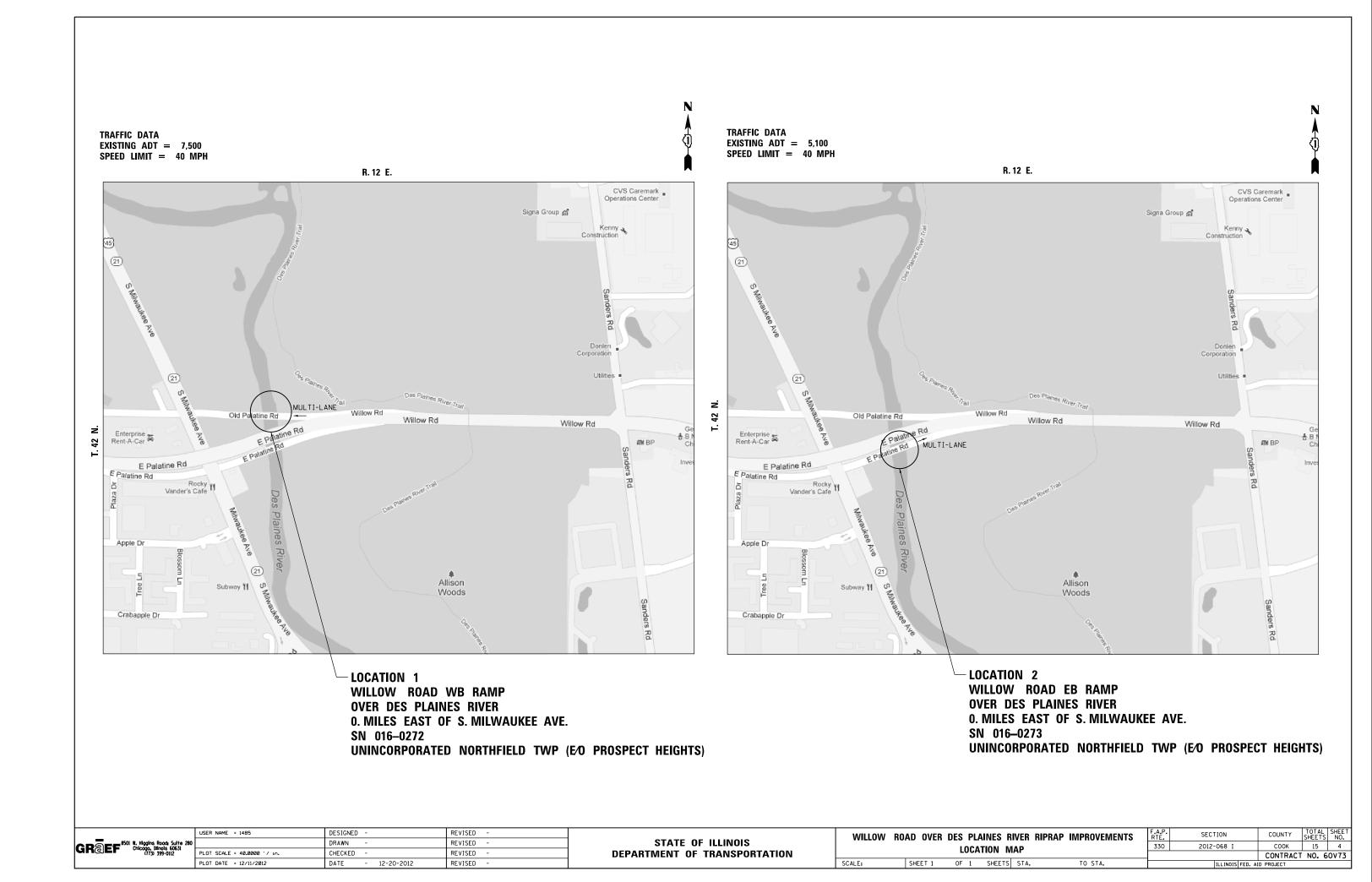
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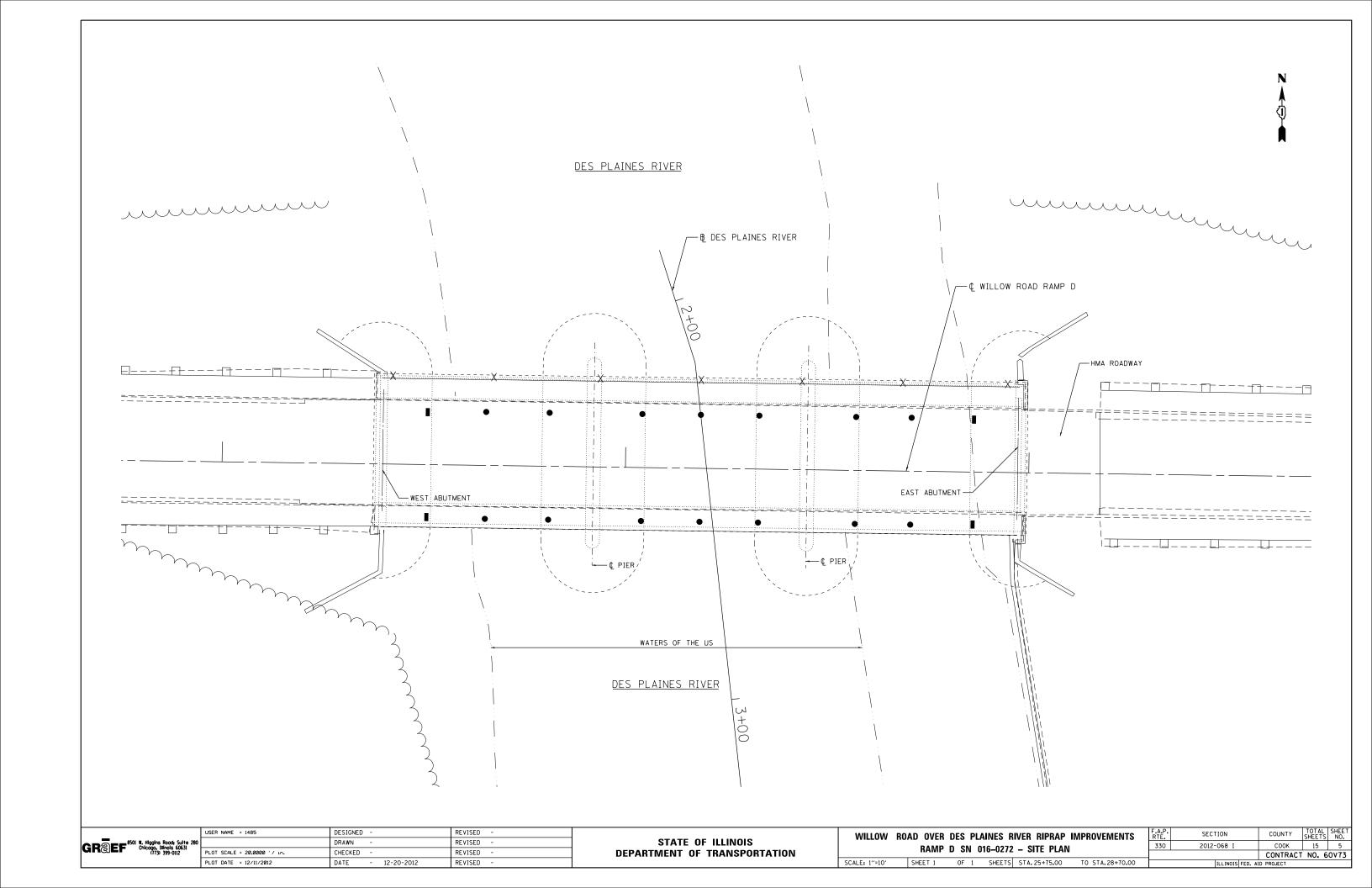
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DEPARTMENT OF TRANSPORTATION

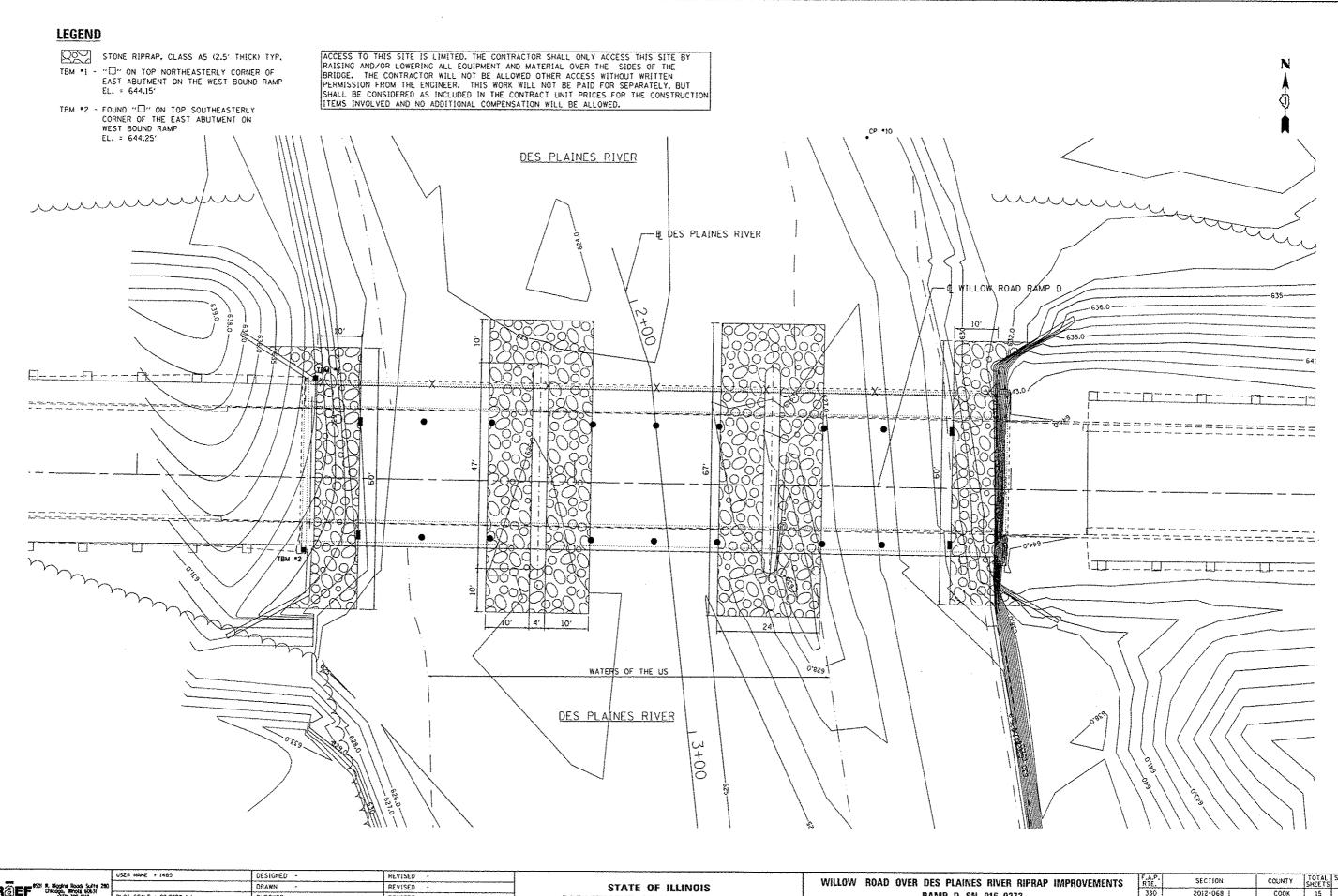
WILLOW ROAD OVER DES PLAINES RIVER RIPRAP IMPROVEMENTS SUMMARY OF QUANTITIES SHEET 1 OF 1 SHEETS STA.

Rev.

SECTION COUNTY TOTAL SHEET NO.
2012-068 I COOK 15 3
CONTRACT NO. 60073

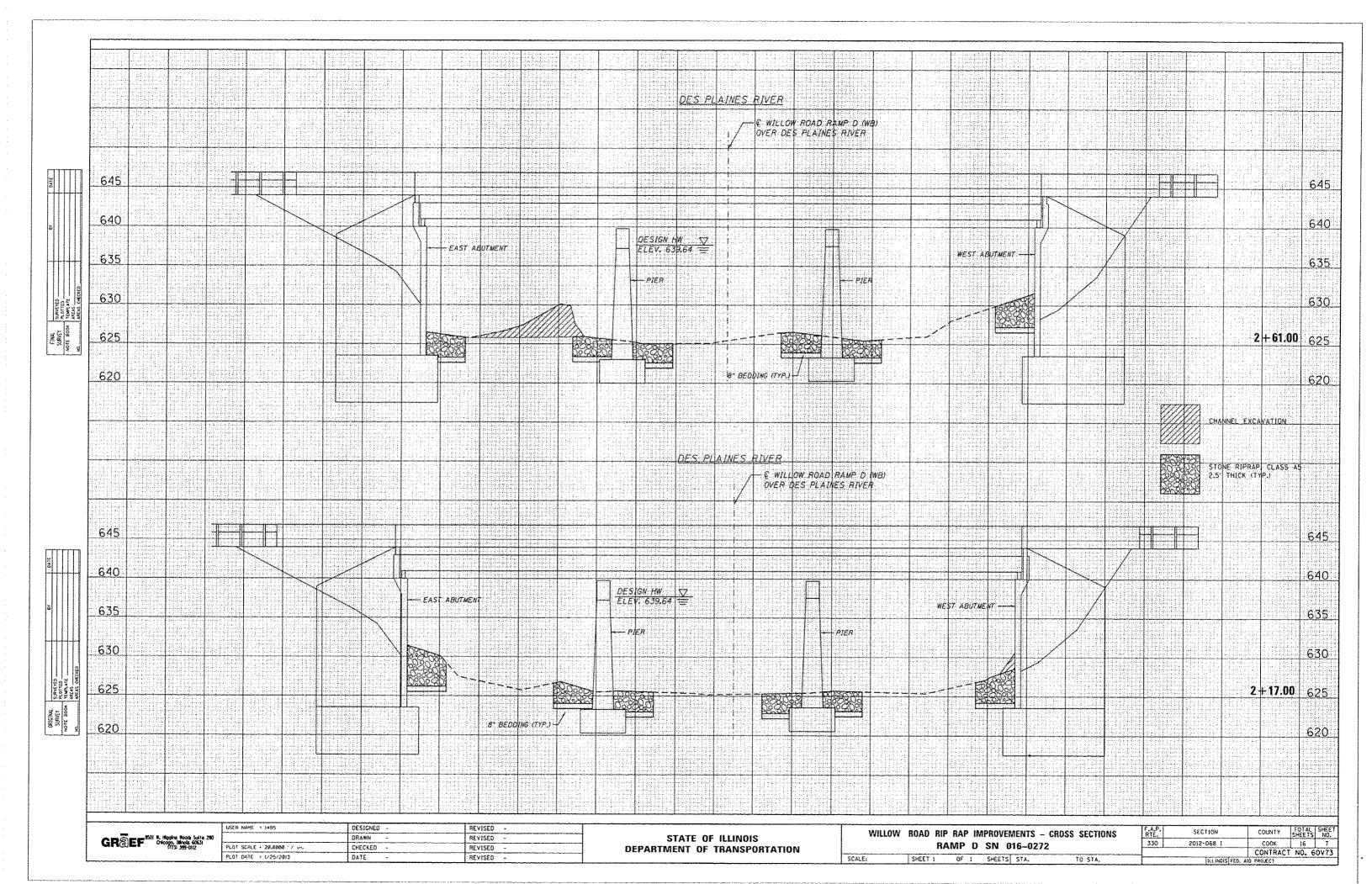


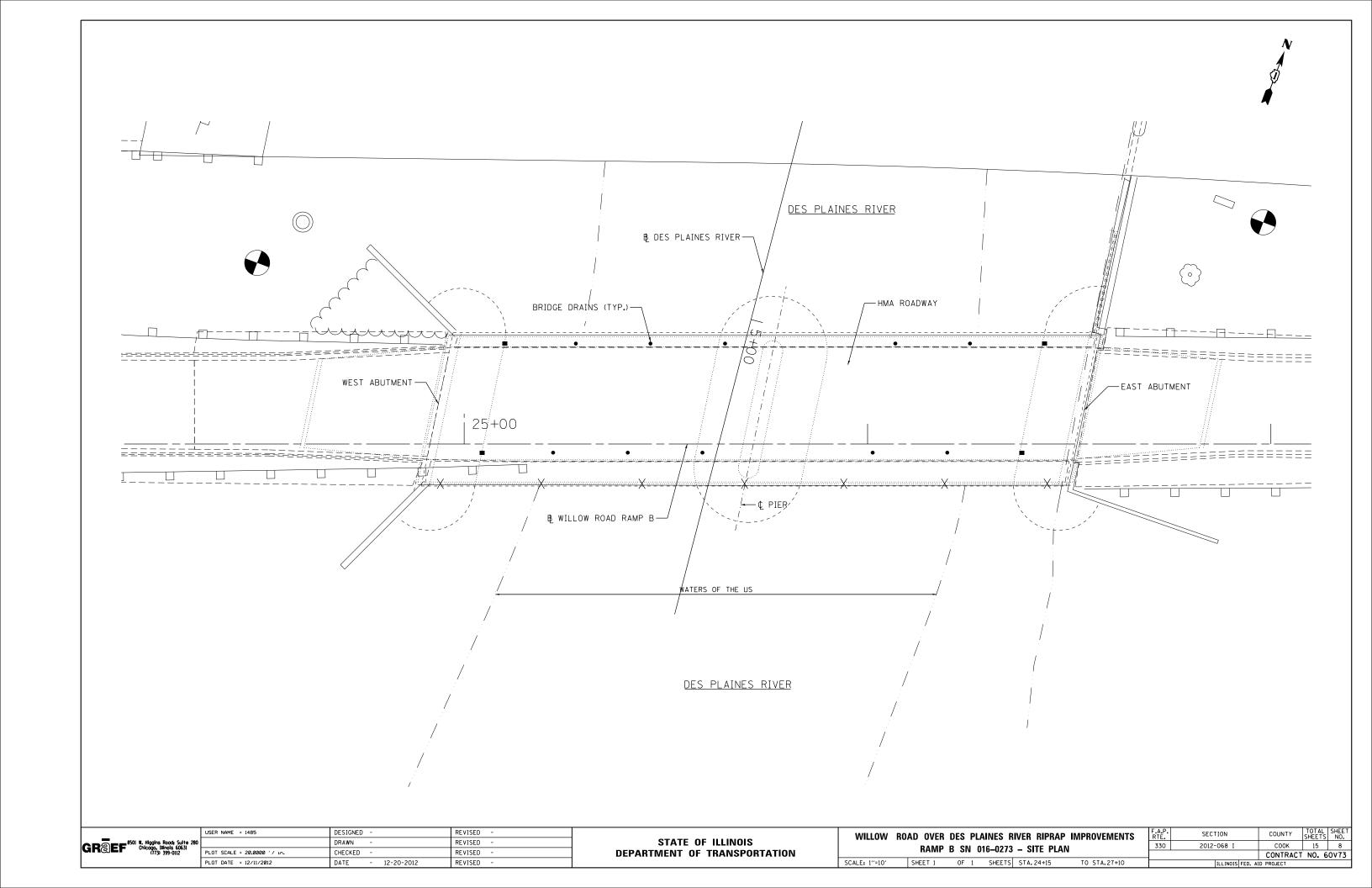


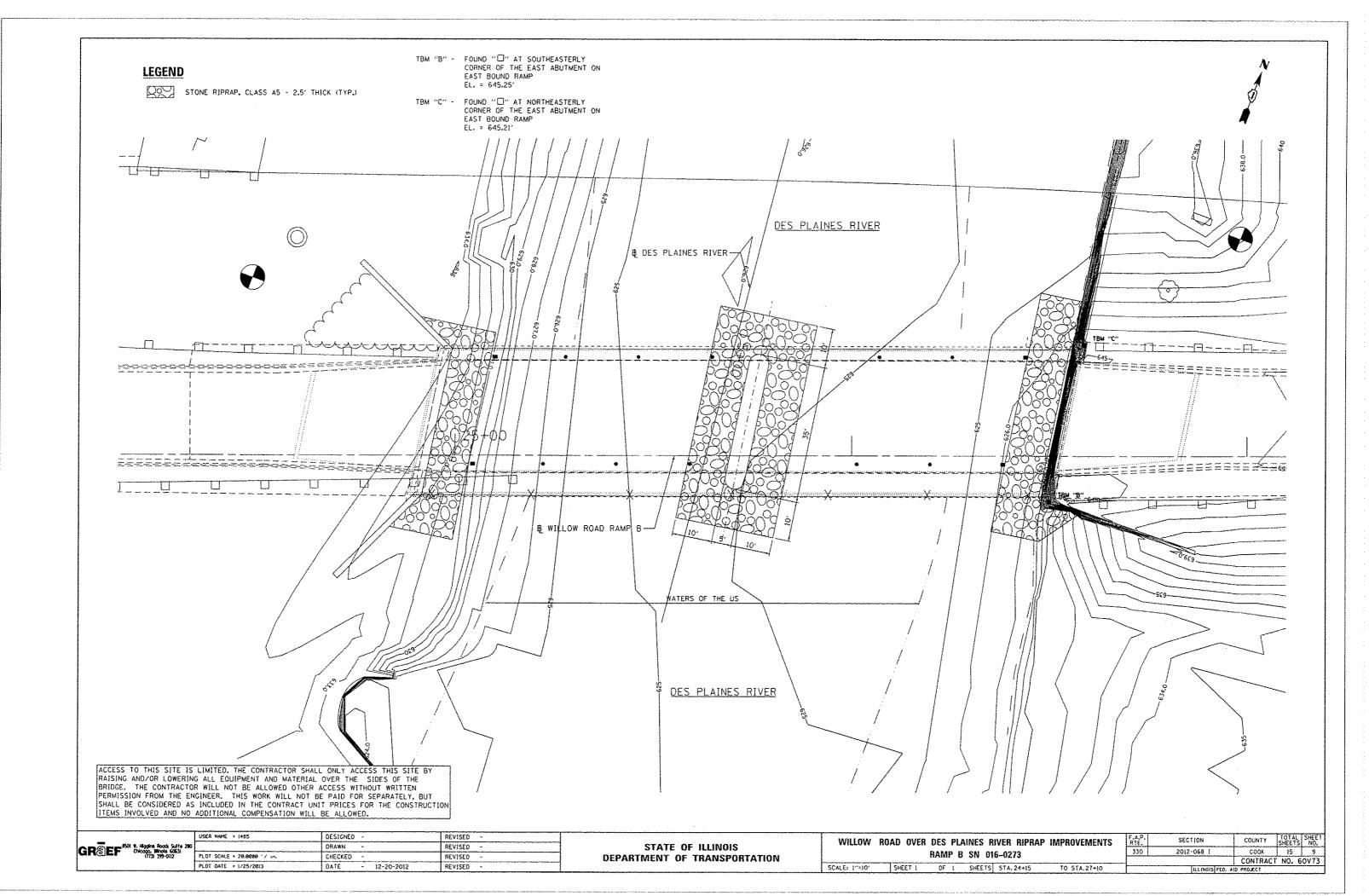


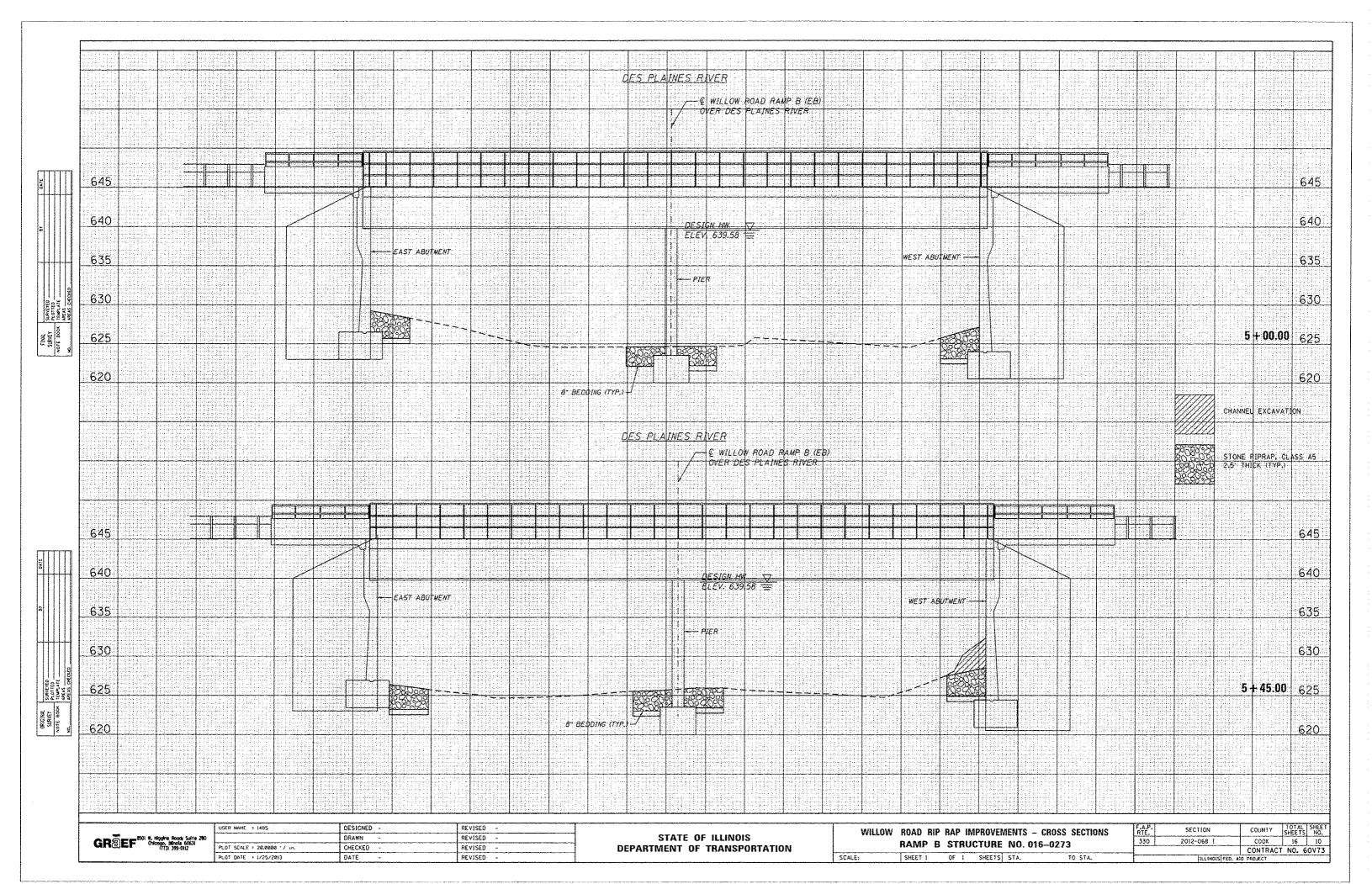
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ROAD	OVER	DES	PLAIN	ES RIV	ER RIPRAP	IMPR	OVEMENTS	RTE.	SECTION	COUNTY	SHEETS	
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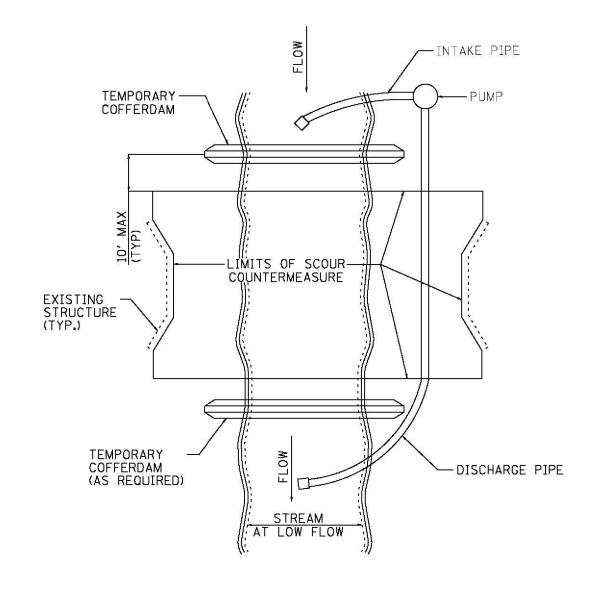


FIGURE D1. TEMPORARY COFFERDAM WITH PUMP BYPASS

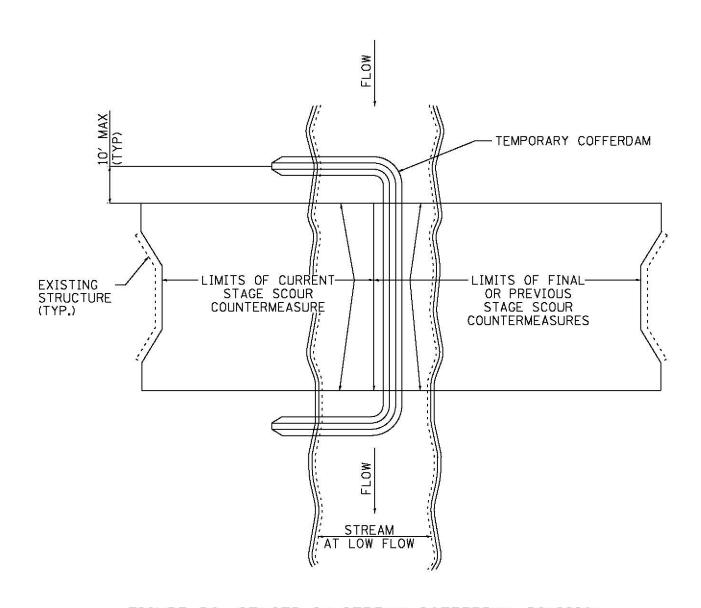
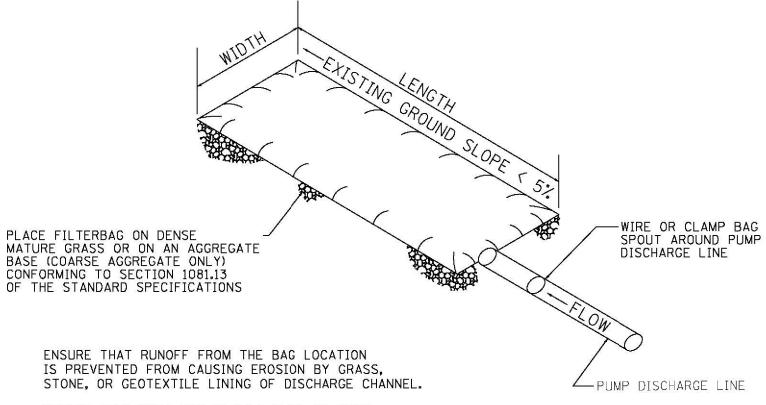


FIGURE D2. STAGED IN-STREAM COFFERDAM DIVISION

NOTE: DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUCTION WITH THE PROJECT SPECIAL PROVISIONS.

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RaEF 8501 W. Higgins Road: Suite 280 Chicago, Illinois 60631		DRAWN -	REVISED -	STATE OF ILLINOIS	DEWATERING SYSTEM DETAILS		330	2012-068 I	соок	15	11				
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REMOVE SILT WHEN BAG IS HALF FULL OR MORE OFTEN IF RECOMMENDED BY THE MAUNFACUTURER, DISPOSE OF SILT BY TRANSPORTING THE FILLED BAG TO DISPOSAL AREA. SLIT THE BAG, BLEND SILT INTO EXISTING TOPOGRAPHY, SEED AND MULCH

MAINTAIN EXTRA FILTER BAGS ON SITE. REPLACE DAMAGED BAGS PROMPTLY.

TYPICAL FLOW RATE: 10 GPM x W x L

FIGURE S1. SEDIMENT FILTER BAG

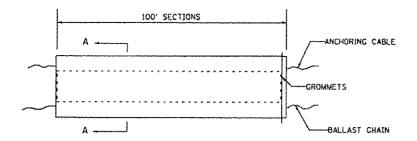
NOTE: DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUCTION WITH THE PROJECT SPECIAL PROVISIONS.

GR@EF***	W. Higgins Road: Suite 280 Chicago, Illinois 60631 (773) 399-0112	

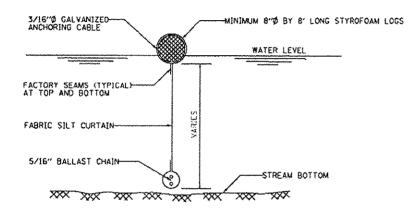
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	PLOT DATE = 12/11/2012	DATE - 12-20-2012	REVISED -

STATE	OF ILLINOIS	
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I	WILLOW R	OAD OVER	DES	PLAIN	IES RI	VER RIPRAP	IMPROVEMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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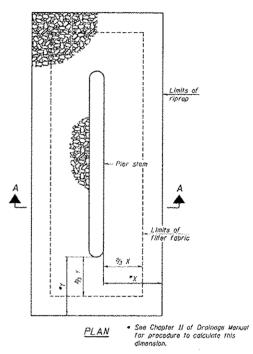


#### SECTION A-A

### FLOTATION BOOM

- FLOTATION BOOM SHALL BE ANCHORED TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM, ANCHORAGES SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE.
- SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE SUFFICIENT SIZE TO STABILIZE THE BARRIER WITH NUMBER AND SPACING DEPENDENT ON WATERWAY VELOCITIES.
- 3. FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH MINIMUM 5/8" DIAMETER POLYPROPYLENE ROPE
- DESIGN OF BOOM AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BOTTOM OF BOOM SHALL REACH BOTTOM OF WATERWAY USING ONE OR TWO VERTICAL SECTIONS AS REQUIRED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED. CONTRACTOR SHALL REMOVE THE BOOM AT COMPLETION OF WORK IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERWAY.

APPLICATION FLOTATION BOOMS TO BE USED TO CONTROL EROSION, TURBIDITY AND DEBRIS WHEN WORKING IN WATERWAYS.



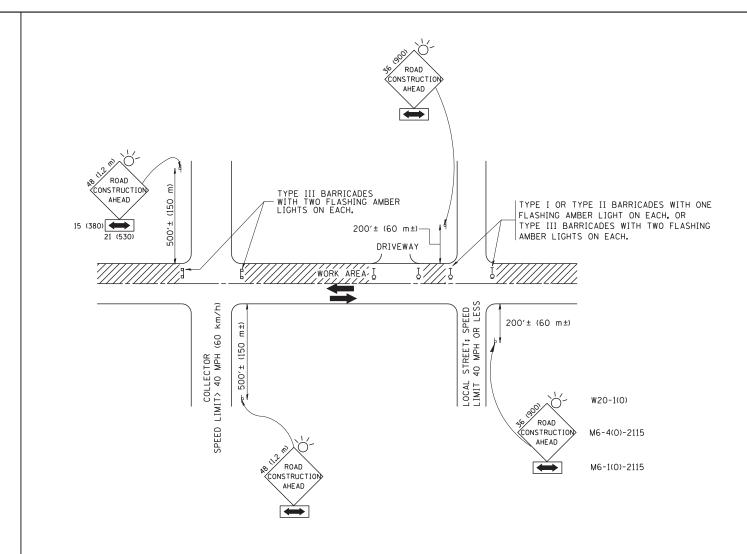
SECTION A-A Filter fabric

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STATE OF ILLINOIS					
DEPARTMENT OF TRANSPORTATION					

	WILLOW ROAD OVER DES PLAINES RIVER RIPRAP IMPROVEMENTS	RTE. SECTION COUNTY TOTAL SHEETS NO.					
1	DEWATERING SYSTEM DETAILS	330 2012-068 [ COOK 15 13					
-		CONTRACT NO. 60V73					
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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:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN 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:
- g) ONE ROAD CONSTRUCTION AHEAD SIGN 48  $\times$  48 (1.2 m  $\times$  1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

- 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.

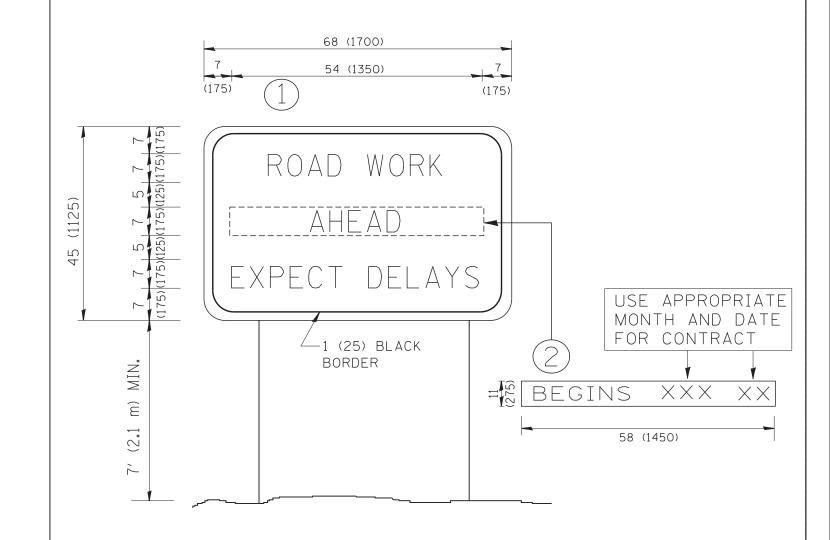
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Widdistatd\22x34\to10.dgn

| 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

SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED.



## 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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W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		INFORMATION SIGN		330	2012-068 I	COOK	15	15
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	IN CHIMATION CIGN				TC-22	CONTRACT	NO. 60	<i>J</i> 73
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE   SHEET NO. 1 OF 1 SHEETS   STA. TO STA.			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJE		AID PROJECT		