STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES DISTRICT WIDE
SECTION: 2010–071–I
AT VARIOUS EXPRESSWAY MEDIANS
HIGH TENSION CABLE BARRIER REPAIR
VARIOUS COUNTIES
C-91–715–10

SEE LOCATION MAPS SHEETS 4-10

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

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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PROJECT ENGINEER: BOB BORO (847) 705-4178
PROJECT MANAGER: ISSAM RAYYAN (847) 705-4556

CONTRACT NO. 60L56

D-91-715



DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

MITTED AUGUST 26, 20 10

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

OCHOOC 1 20 10

SOUTH E. STILL PL. BL.

ENGINEER OF DESIGN AND ENVIRONMENT

STATE OF ILLINOIS

Christine W. Reed or DIRECTOR OF HIGHWAYS CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

HIGH TENSION GUARDRAIL DETAILS (TRINITY HIGHWAY)

STATE STANDARDS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET	NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION
	1	COVER SHEET	701400 -04	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
	2	INDEX OF SHEETS, STANDARDS AND GENERAL NOTES	701401 <i>-05</i>	LANE CLOSURE, FREEWAY/EXPRESSWAY
	3	SUMMARY OF QUANTITIES	701406 <i>-05</i>	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
	4-10	LOCATION MAPS	701421 - 02	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY
	11	TRAFFIC CONTROL FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)	701901-01	TRAFFIC CONTROL DEVICES
	12-13	HIGH TENSION GUARDRAIL DETAILS (BRIFEN USA)		
	14	HIGH TENSION GUARDRAIL DETAILS (GIBLARTAR)		

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE CONTRACTOR SHALL CALL STATE ELECTRICAL CONTRACTOR AT (773) 287-7600 TO LOCATE STATE OWNED FACILITIES.

THE CONTRACTOR SHALL WORK IN THE DIRECTION OF TRAFFIC.

THE CONTRACTOR WILL NOT BE ALLOWED TO STORE MATERIALS OVERNIGHT IN THE MEDIAN.

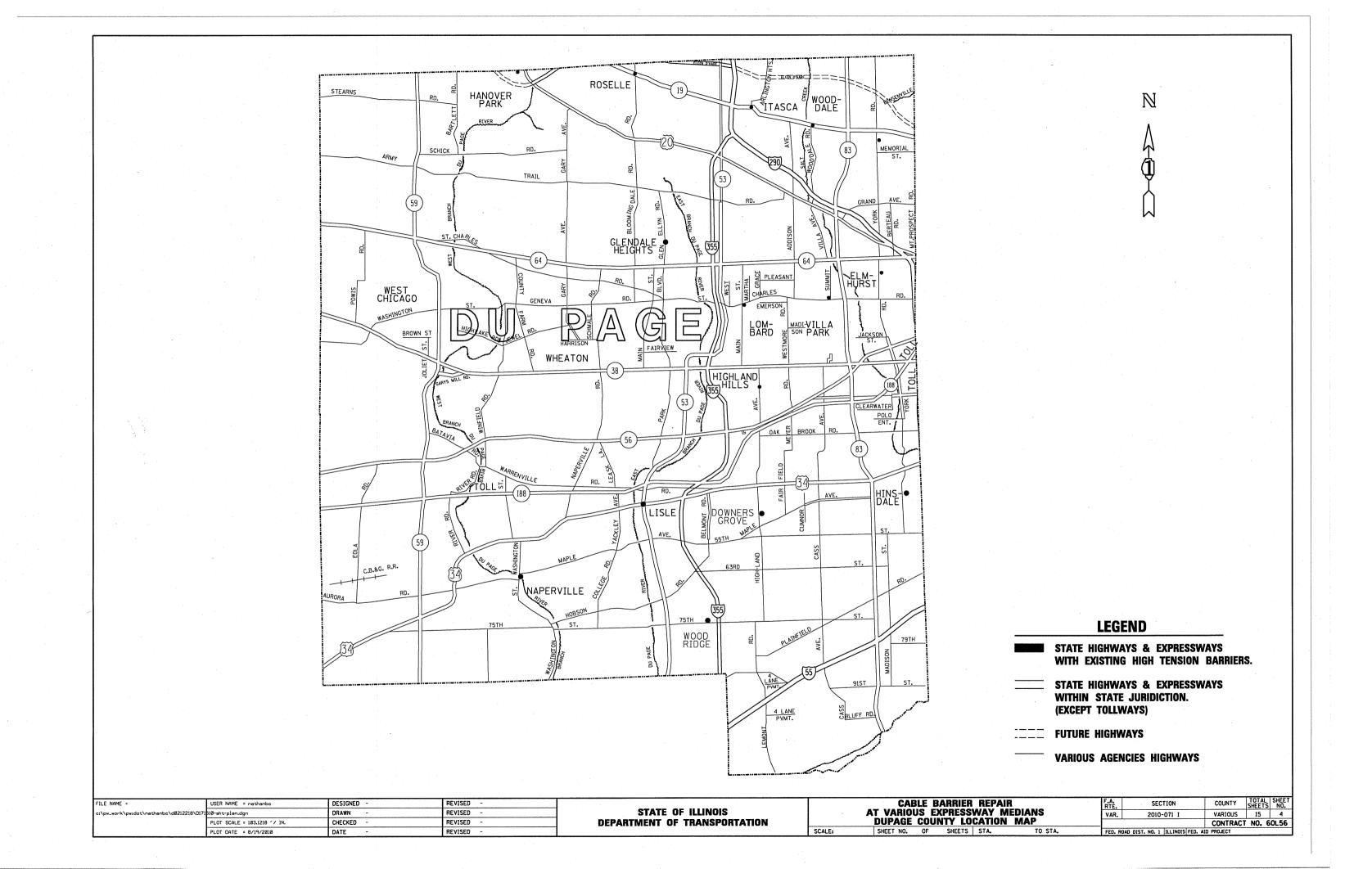
THE PROPOSED DEPTH OF THE CONCRETE SOCKETED FOUNDATIONS SHALL BE 42" (MINIMUM).

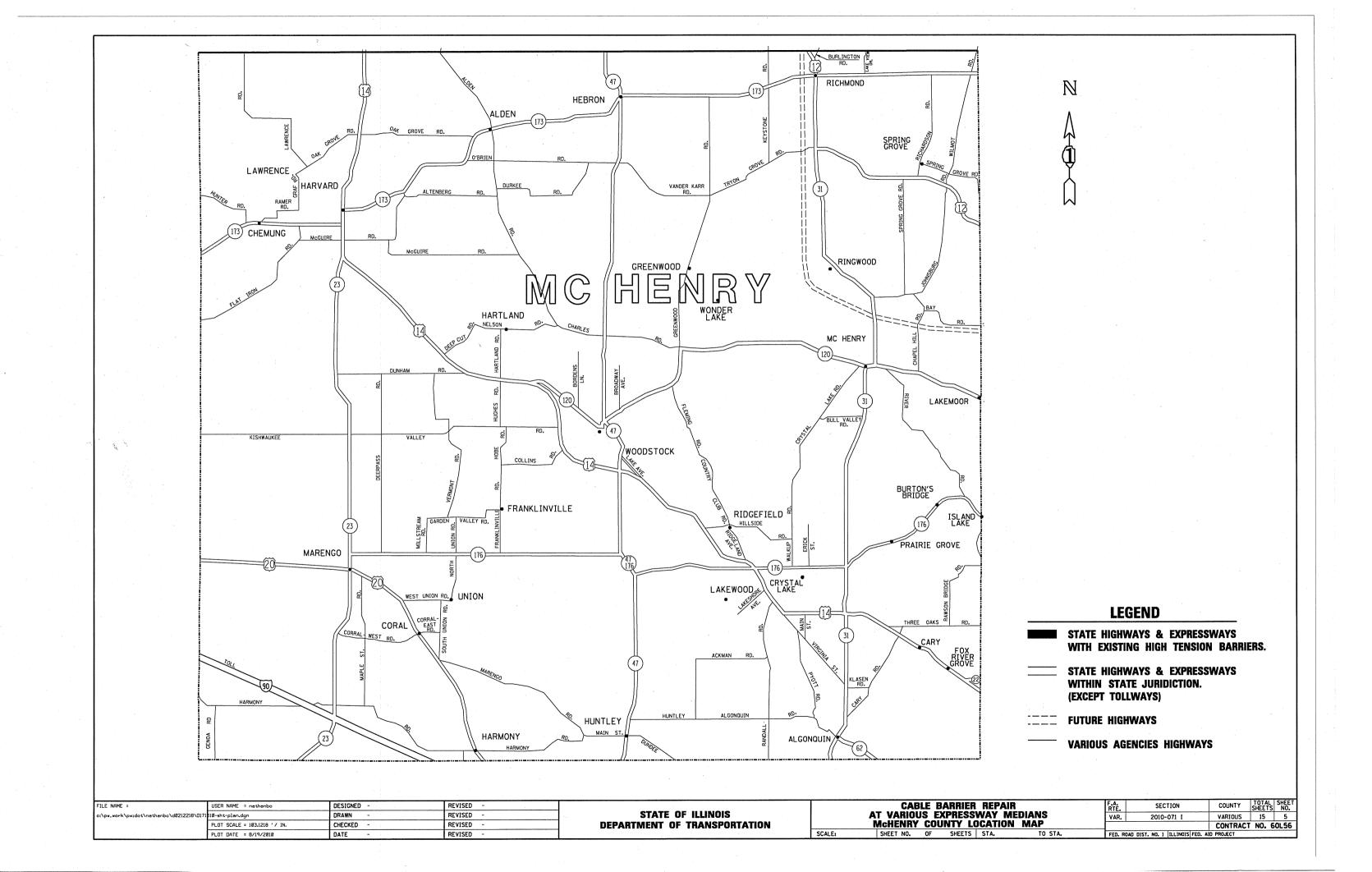
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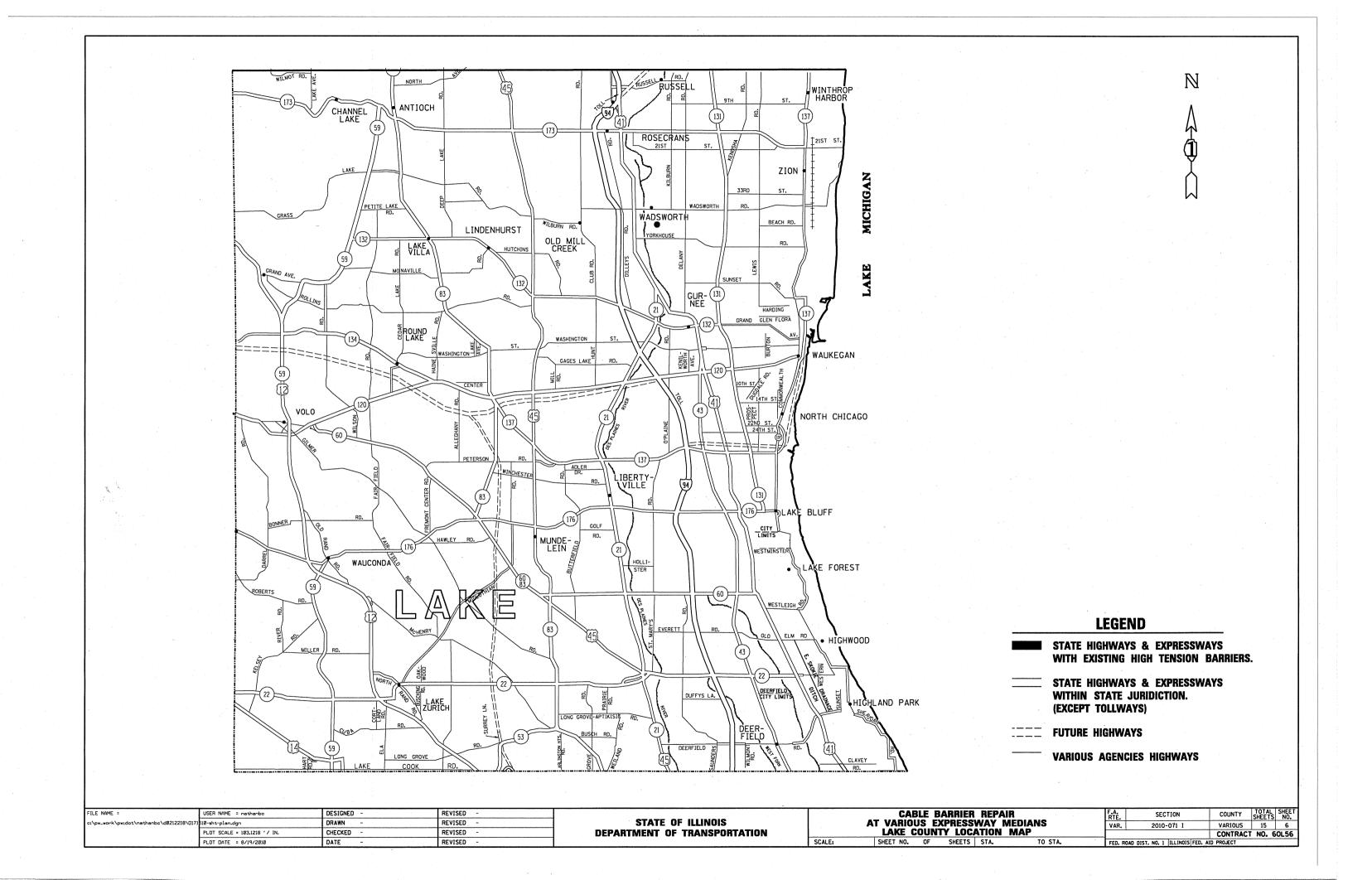
		CAE	LE E	BARRIER	REP	AIR		
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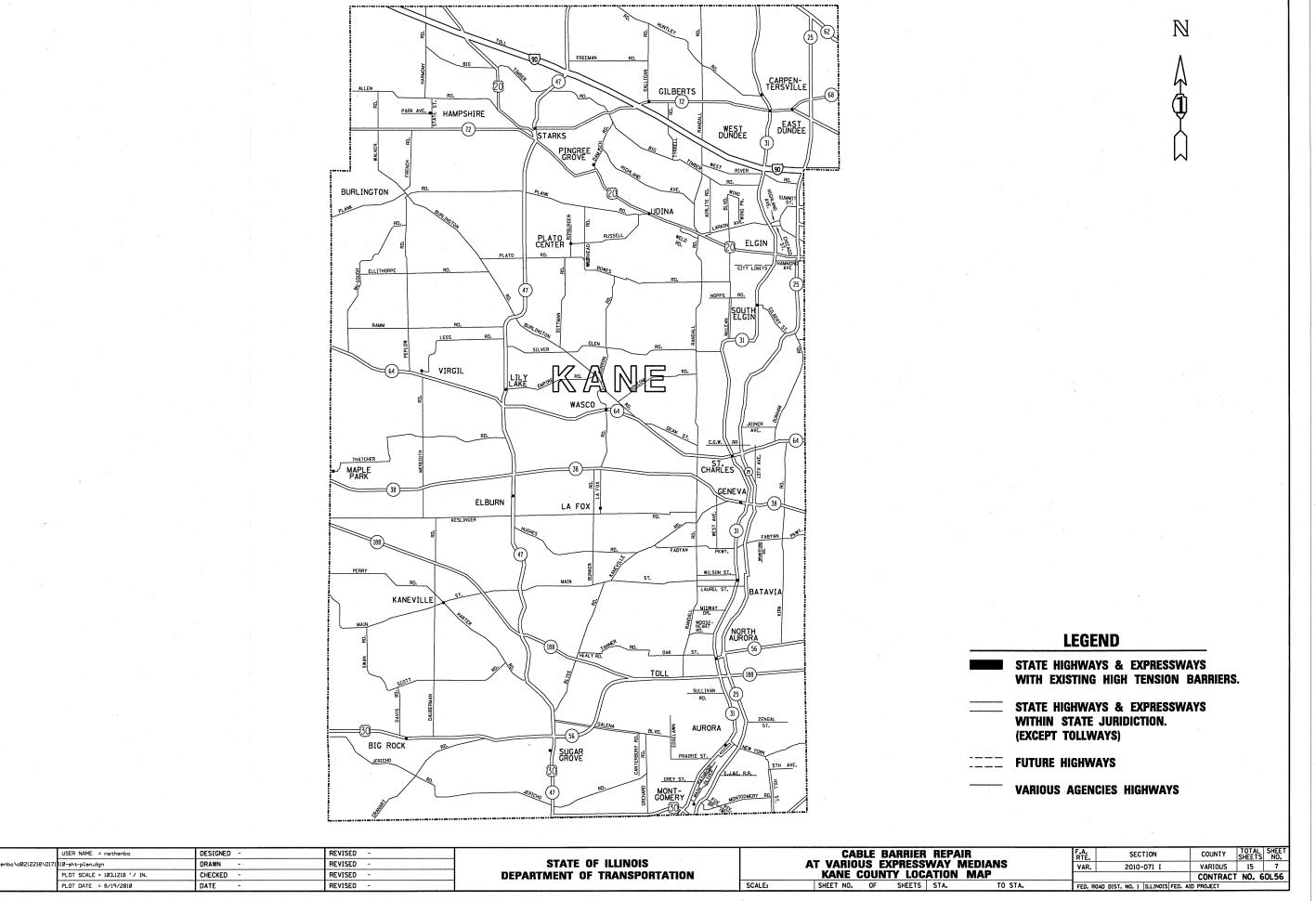
	SUMMARY OF QUANTITIES		URBAN	CONSTRUCT		CODE 002	1	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONTRACT MAINTENANCE	100%. MCHD			
x0325256	REPAIR HIGH TENSION CABLE (BRIFEN)	FOOT	180	176	4			. ,
X0325258	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (BRIFEN)	EACH	6	5	1			
x0325260	REPAIR POSTS (BRIFEN)	EACH	750	733	17			
x0325899	REPAIR HIGH TENSION CABLE (GIBRALTAR)	FOOT	120	117	3			
X0325901	REPAIR POSTS (GIBRALTAR)	EACH	975	953	22		·	
X0325975	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (GIBRALTAR)	EACH	6	5	1			
X0326201	REPAIR HIGH TENSION CABLE (TRINITY)	FOOT	90	88	2			
x0326202	REPAIR POSTS (TRINITY)	EACH	75	73	2			
X0326203	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (TRINITY)	EACH	4	3	1			

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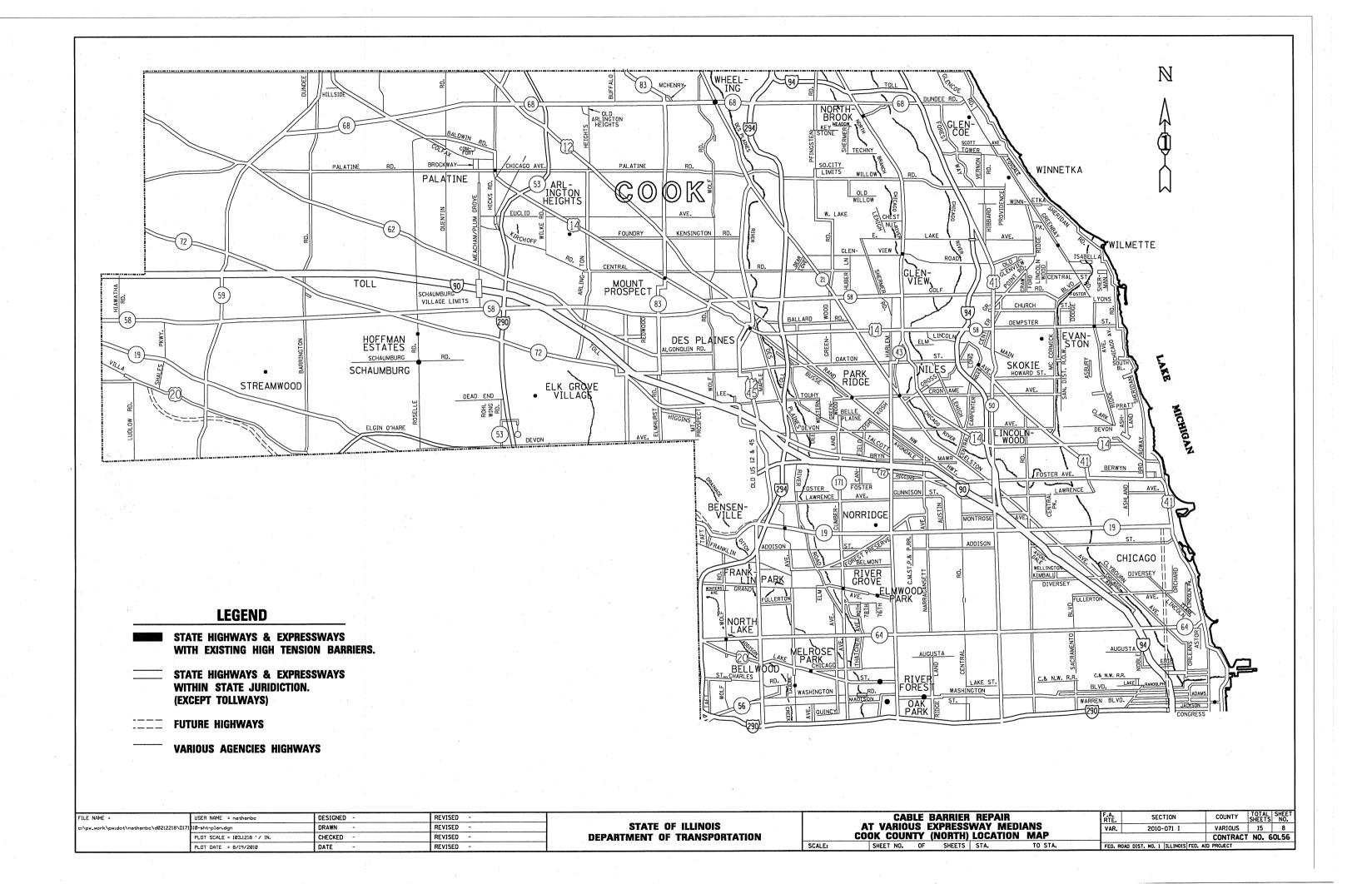


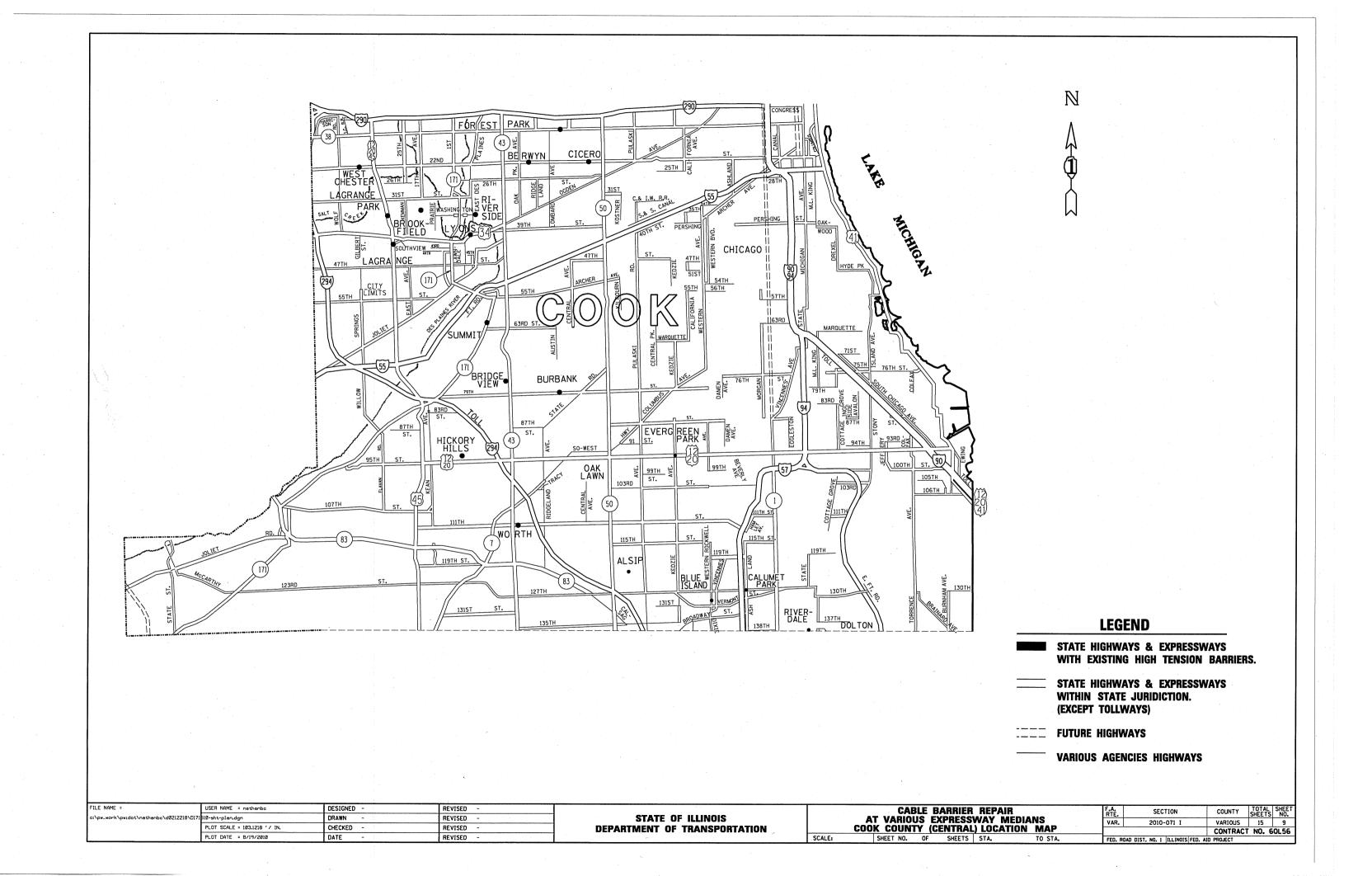


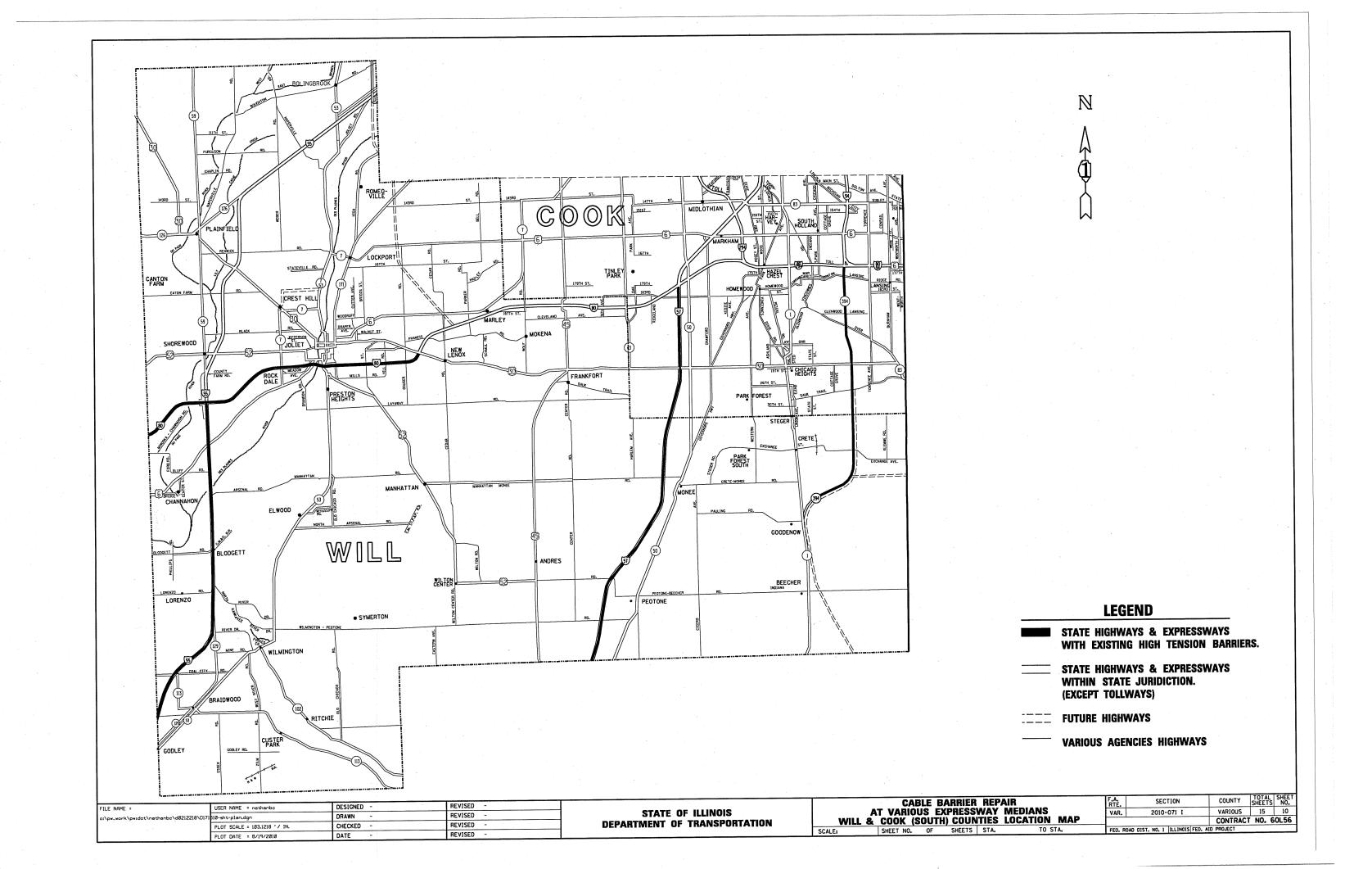


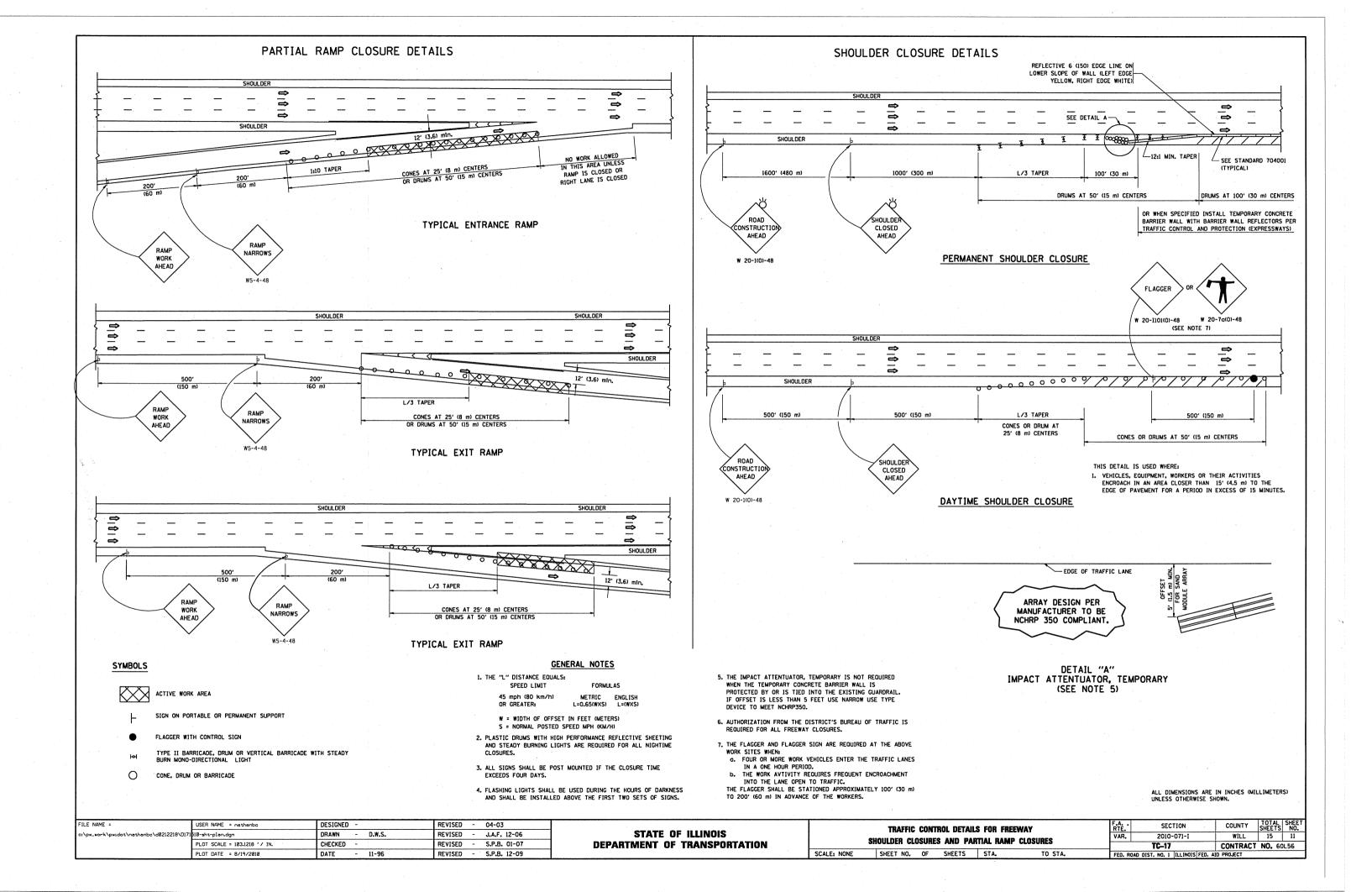


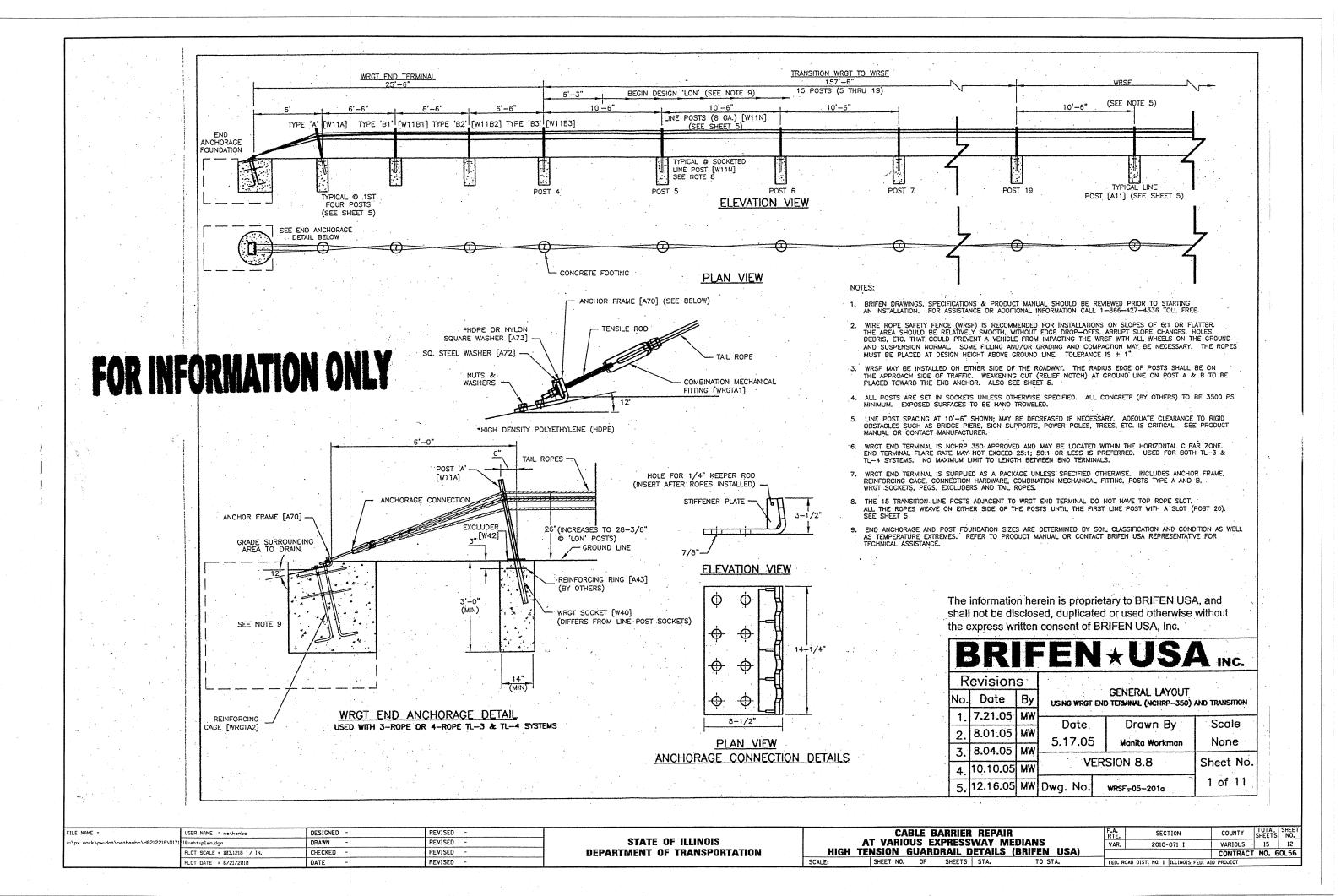
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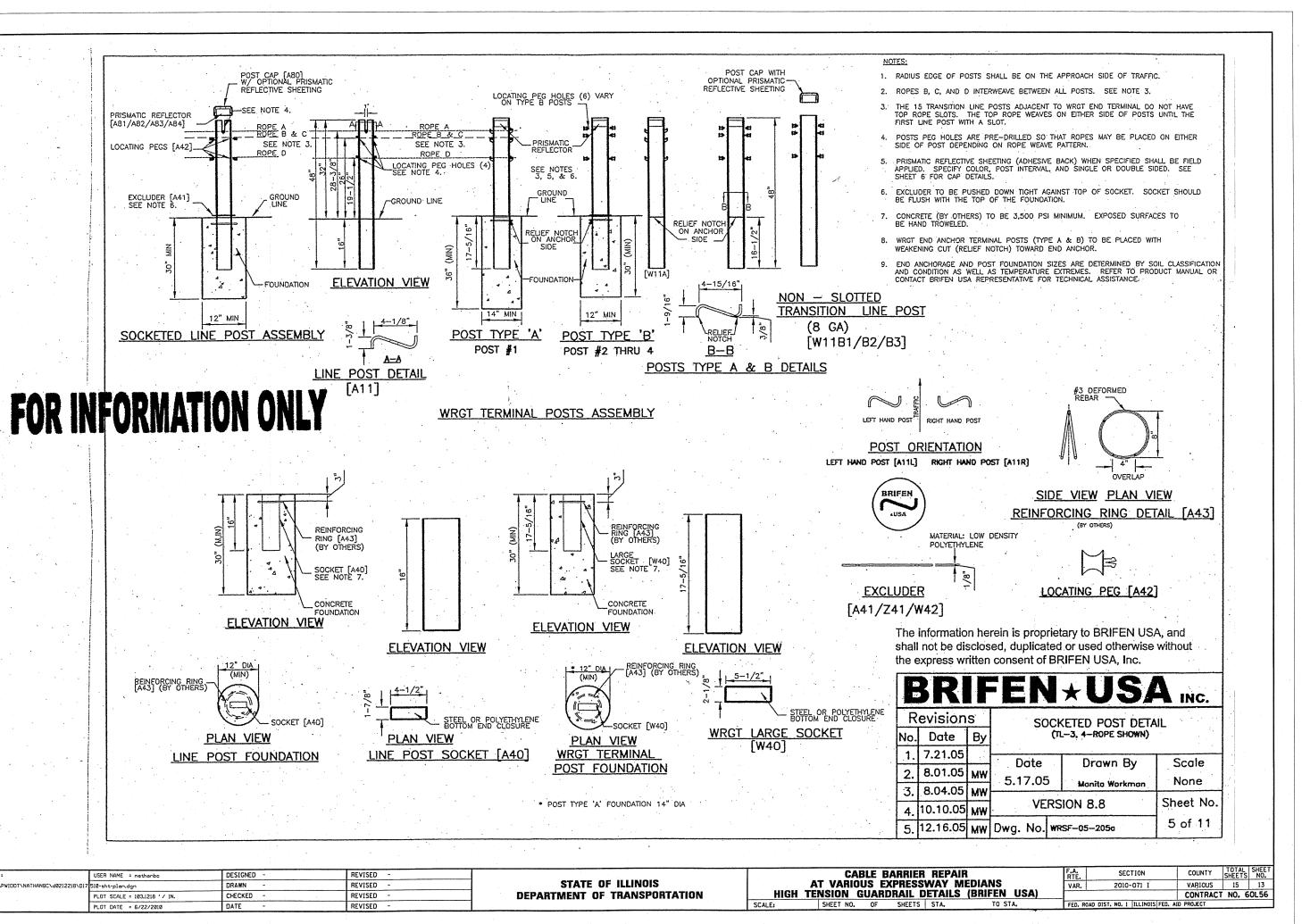




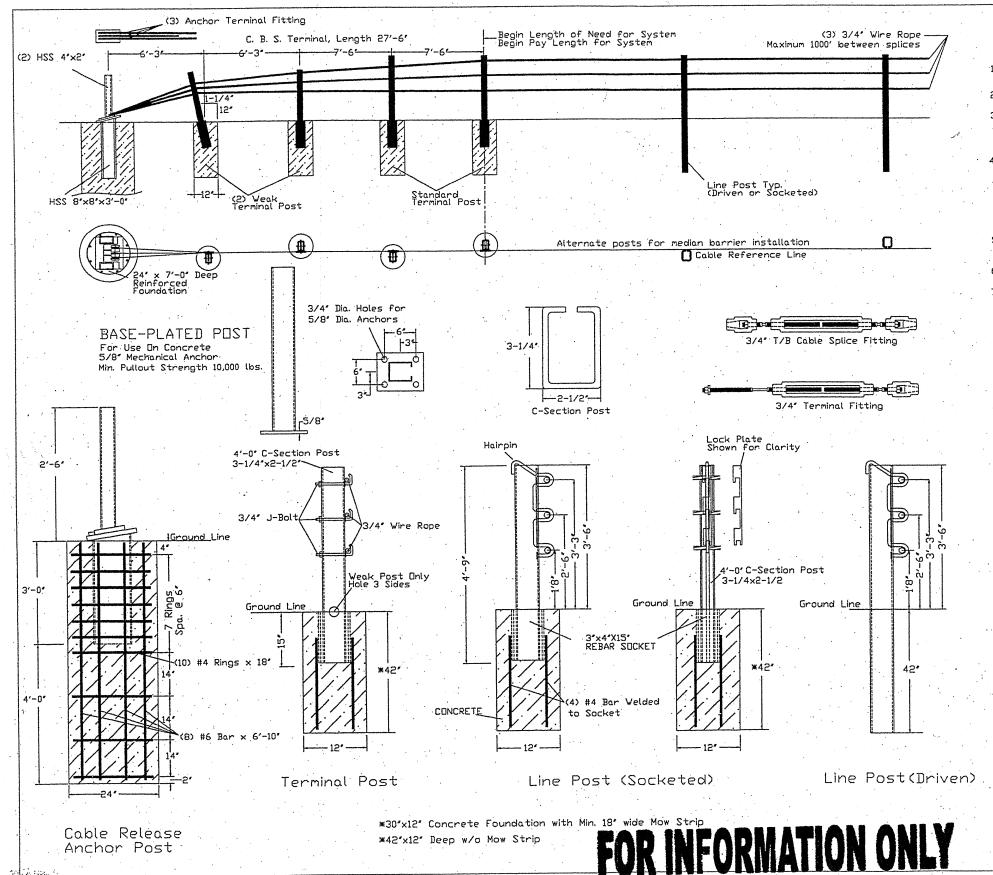








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REV: 6 DATE: 09/13/07 APPROVER: RV

GENERAL NOTES

- For additional information contact Gibraltar, Inc. at 1-800-495-8957.
 or see the manufacture's product manual.
- 2. All concrete shall be minimum 2500 PSI.
- Alternate Post for bi-directional traffic flow.
 If installed for traffic in one direction install cables on traffic side of posts.
- 4. The Cable Barrier System shall be installed on shoulders or on medians with slopes of 6:1 or flatter. If installed on slopes steeper than 6:1 up to 4:1 the TL-4 system performs as a TL-3 and Gibraltar must be contacted for various guidelines related to placement.
- 5. The Cable Barrier System is accepted by the FHWA Test Level 4
- 6. See the MUTCD for proper 'Barrier' delineation
- 7. Rock Clause: Where solid rock is encountered:
 - a.) For socketed post, continue digging 12' diameter, 15' deep into rock or the required plan depth, whichever comes first.
 - b.) For driven post, core drill a 4' diameter hole 18' deep into rock or the required plan depth, whichever comes first.
 - c.) For Anchor post, continue digging 24' diameter, 30' deep into rock or the required plan depth, whichever comes first.
- 8. The Gibraltar cable barrier system shall be installed in NCHRP Report 350 standard compacted soil. Soil must be well drained.
- 9. Every component to be galvanized.

	Cable	Tension
	-10F	8000
	0	7600
	10	7200
	50	6800
	30	6400
	40	6000
	50	5600
	60	5200
	• 70	4800
	. 80	4400
	90	4000
	100	3600
	110	3200
11		Deviet

Allowable Deviation from Chart +/- 10%

	Deflection	Post Spacing
	9′3″	30.FT
	9'	28.FT
-	8′	20.FT
	7′	12.FT
	6′8 ′	10.FT

GIBRALTAR
320 Southland Road
Burnet, Texas 78611
1-800-495-8957

SYSTEM: TL-4

SCALE: NTS DRAFTERS: EJ&TJ DATE: 09/13/07

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE BARRIER REPAIR
AT VARIOUS EXPRESSWAY MEDIANS
HIGH TENSION GUARDRAIL DETAILS (GIBRALTAR)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2010-071 I	VARIOUS	15	14
		CONTRACT	NO. 6	OL56
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