LICENSE !

STATE OF ILLINOIS DEPARTMENT OF NATURAL RESOURCES OFFICE OF WATER RESOURCES

DES PLAINES RIVER – RAND PARK FLOOD CONTROL PUMP STATION REPAIRS AND FLOODGATE IMPROVEMENTS

INDEX OF SHEETS

- 1 TITLE SHEET/INDEX OF SHEETS
- 2 SUMMARY OF QUANTITIES, GENERAL NOTES AND UTILITY REFERENCES
- 3 PUMP STATION LOCATION PLAN SITE 1
- 4 SLOPE WALL FOR CONCRETE CHANNEL PAVING SITE 1
- 5 BALLARD ROAD FLOOD GATE LOCATION PLAN SITE 2
- 6 BALLARD ROAD FLOOD GATE CLOSURE STRUCTURE ELEVATION AND SECTION SITE 2
- 7 RAND ROAD FLOOD GATE LOCATION PLAN SITE 3
- 8 RAND ROAD FLOOD GATE CLOSURE STRUCTURE ELEVATION AND SECTIONS SITE 3

STANDARDS

701006 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24"

FROM PAVEMENT EDGE

701101 OFF-RD OPERATIONS, MULTILANE, 15' TO 24"

FROM PAVEMENT EDGE

701901 TRAFFIC CONTROL DEVICES

REGISTERED

Ted Montrey 8/25/11
ILLINOIS REGISTERED STRUCTURAL ENGINEER NO. 081-005450

LICENSE EXPIRES 11-30-2012

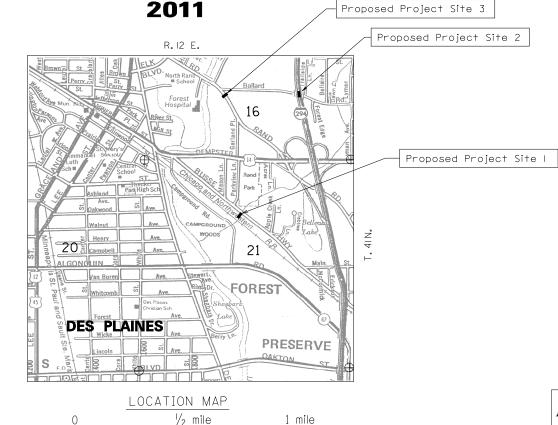
Ted Montay 8/25/11

ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-049591

LICENSE EXPIRES 11-30-2011

DES PLAINES, ILLINOIS
COOK COUNTY

FR-431





COOK COUNTY -

REGIONAL MAP

APPROVED BY SLEET DATE 8-25-1/

Scale

by————————————————————————————————————) }	By GMS
awn By JJF		
signed a) y	JUF
, C	nesigned b	Drawn By

SUMMARY OF QUANTITIES					
CODE NO.	PAY ITEM	UNIT	QUANTITY		
20300100	CHANNEL EXCAVATION	CU YD	100		
28200200	FILTER FABRIC	SQ YD	87		
*50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	500		
51100300	SLOPE WALL 6 INCH	SQ YD	207		
67100100	MOBILIZATION	L SUM	1		
*	TEMPORARY COFFERDAM SYSTEM	L SUM	1		

* SEE SPECIAL PROVISIONS

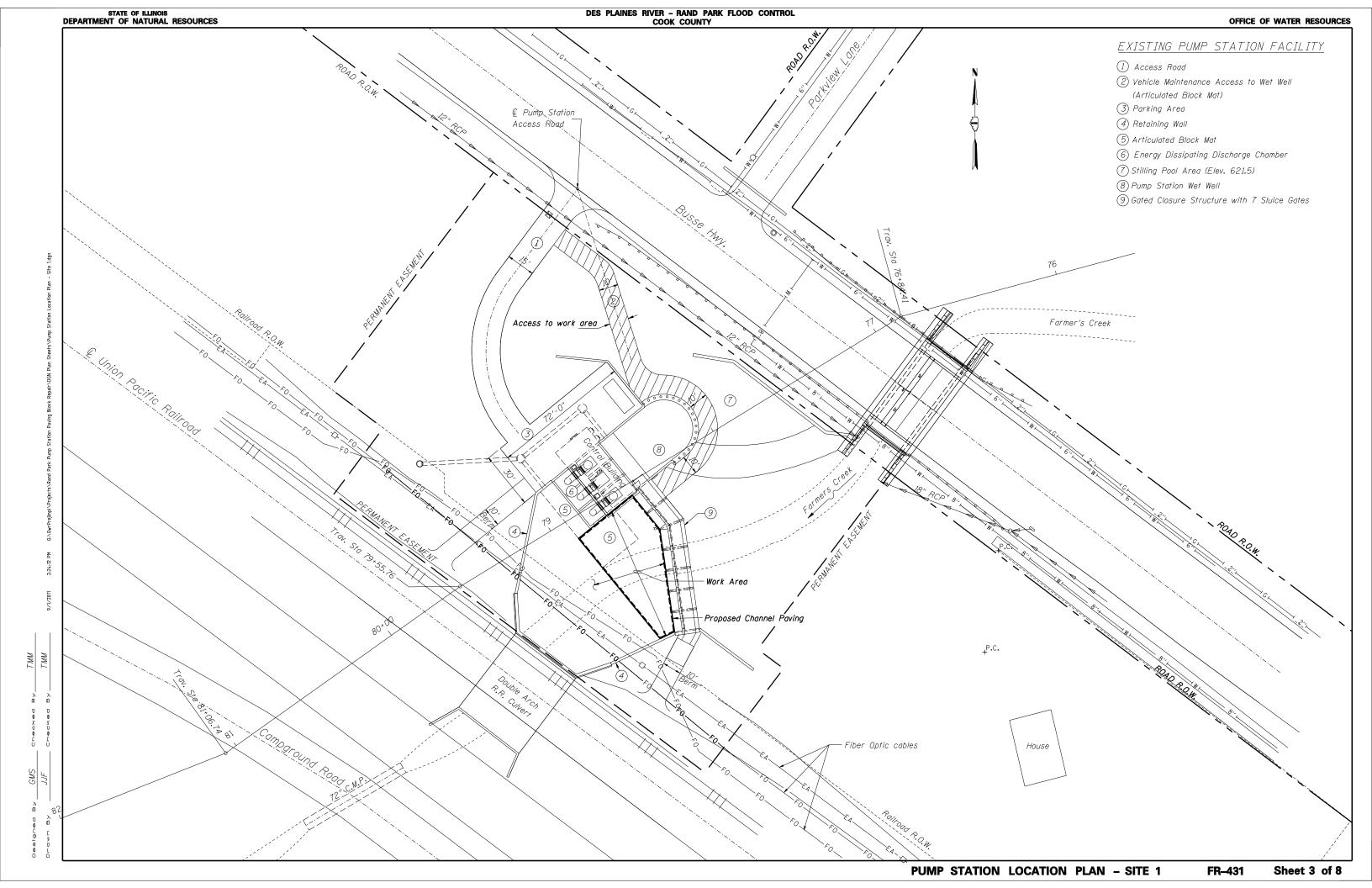
UTILITY REFERENCE TABLE

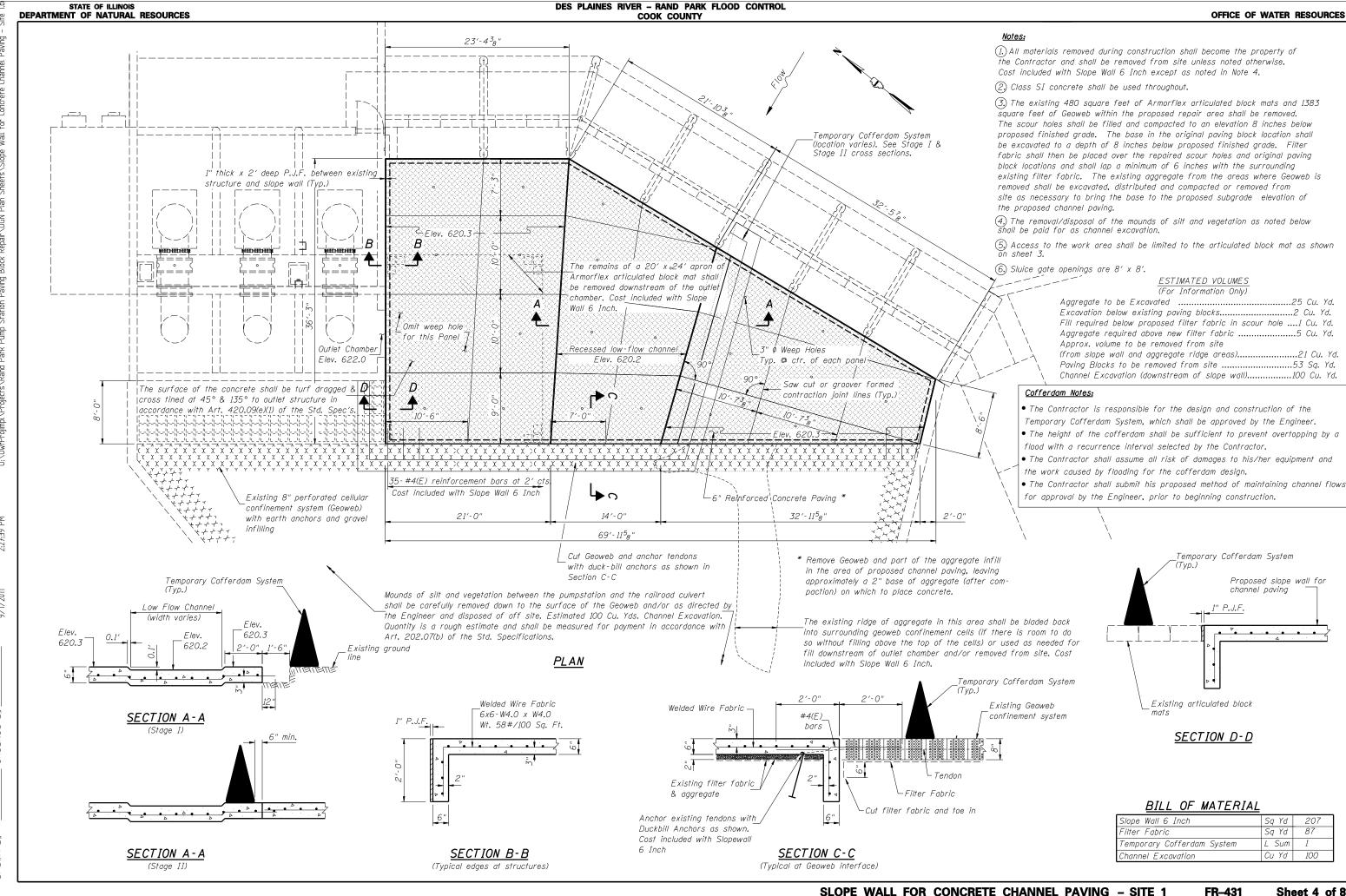
J.U.L.I.E.	Call 48 hours prior to construction	1-800-892-0123

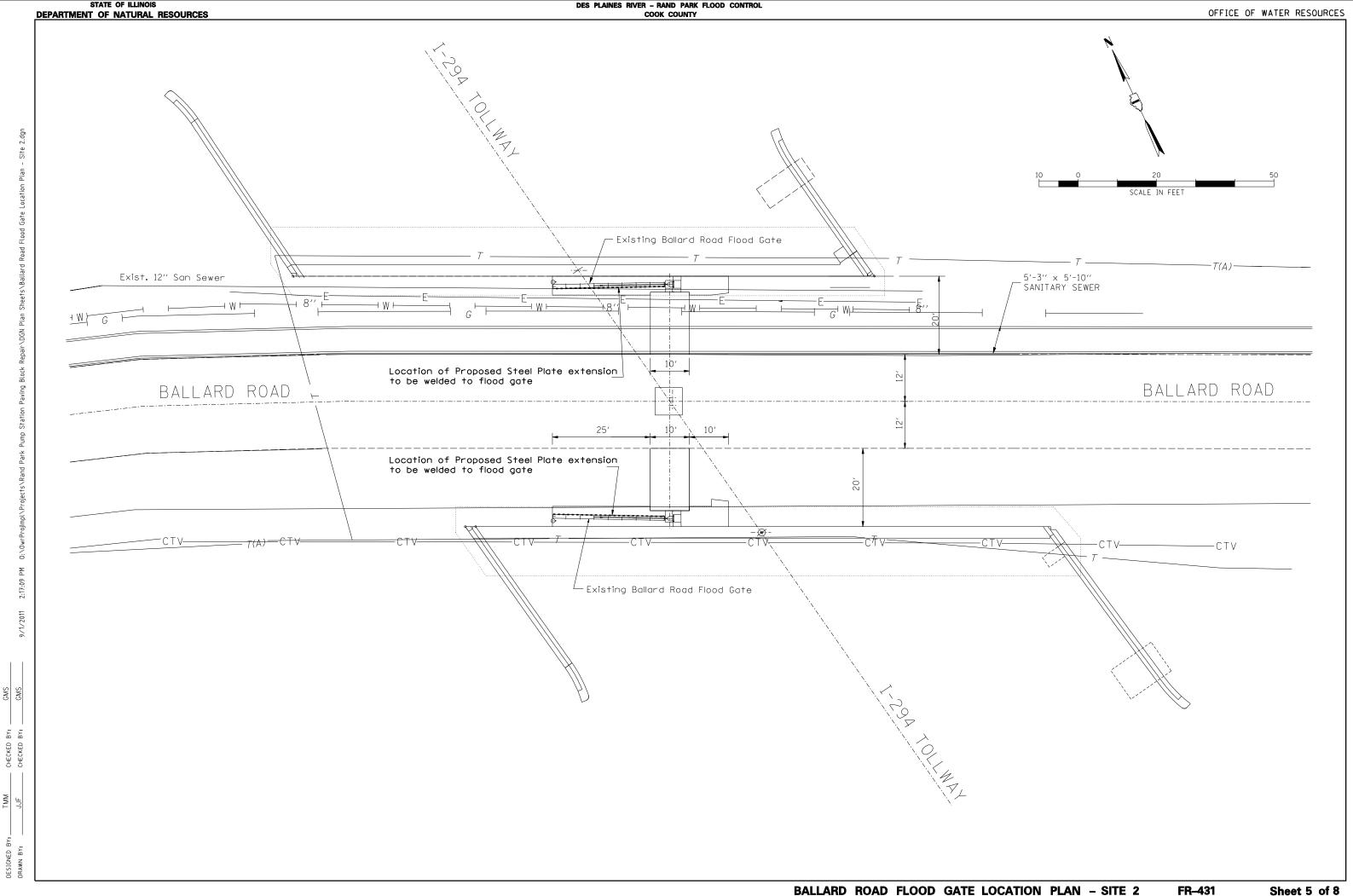
GENERAL NOTES

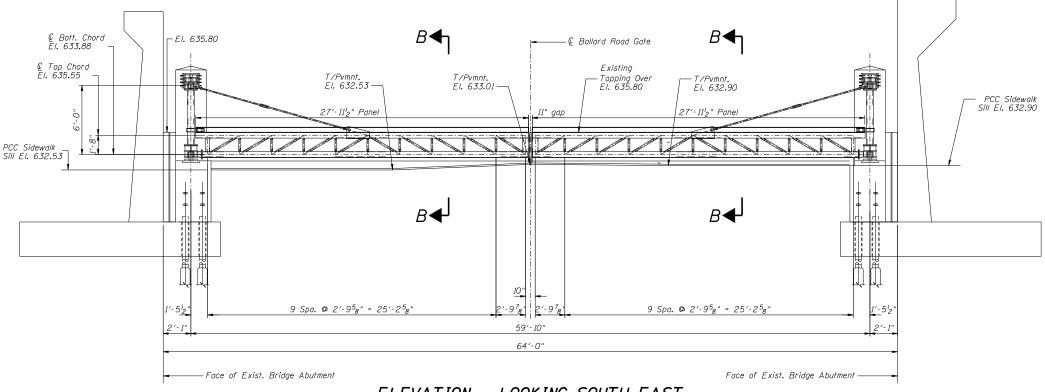
- 1. All elevations refer to N.G.V.D. 29 (National Geodetic Vertical Datum).
- 2. All lateral drainage that exists prior to construction shall be restored as shown on the plans and as directed by the Engineer. Unless otherwise specified, all costs of restoration shall be considered incidental to the Contract and no additional compensation will be allowed.
- 3. The Contractor is reminded to protect and restore, at his expense, in accordance with Article 107.20 of the Standard Specifications, any private or public property, including access roads, which may be damaged or destroyed due to construction operations.
- 4. All excess excavation and unsuitable materials shall be disposed of at locations provided by the Contractor at his expense and at locations inspected and approved by the Engineer.
- 5. The Contractor shall submit his proposed method of maintaining channel flows to the Engineer for approval prior to beginning construction.
- 6. The location, maintenance, removal and restoration to original condition of all haul roads shall be approved by the Engineer and all cost shall be incidental to the Contract.
- 7. All construction operations shall be contained within the easement area or work limits as indicated on the plans. It shall be the full responsibility of the Contractor to secure all rights of ingress and egress to said Right-of-Way including the satisfactory protection and restoration of property as required in article 107,20 and 107,23 of the Standard Specifications.
- 8. The Contractor shall call J.U.L.I.E. (800-892-0123) for the location of existing utilities 48 hours prior to construction.
- 9. The Contractor is alerted that the ground may be soft and movement of equipment may be difficult in the channel bottom area where Slope Wall installation is to be performed.
- 10. The sluice gates can be used as part of the Cofferdam System.
- 11. Plan dimensions and details relative to the existing structures have been taken from existing plans and/or past surveys and reports, and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Sheet 2 of 8

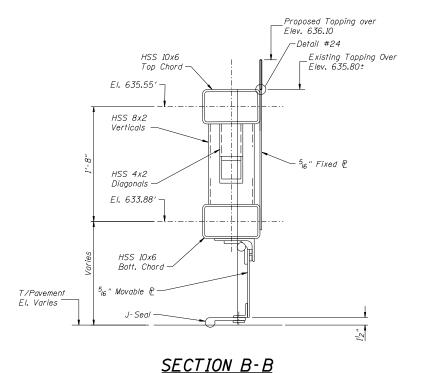








ELEVATION - LOOKING SOUTH EAST



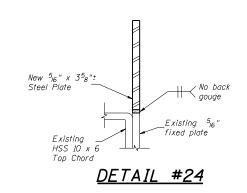
0:\OwnProjImpl\Projects\Rand Park Pump Station Paving Block Repair\DGN Plan Sheets\Ballard Road Flood Gate Closure

2:15:39

9/1/2011

MM

DESIGNED BY DRAWN BY:



PAINTING NOTES:

The paint shall match existing gate paint system and color. See Special Provisions. Cost included with Furnishing and Erecting Structural Steel.

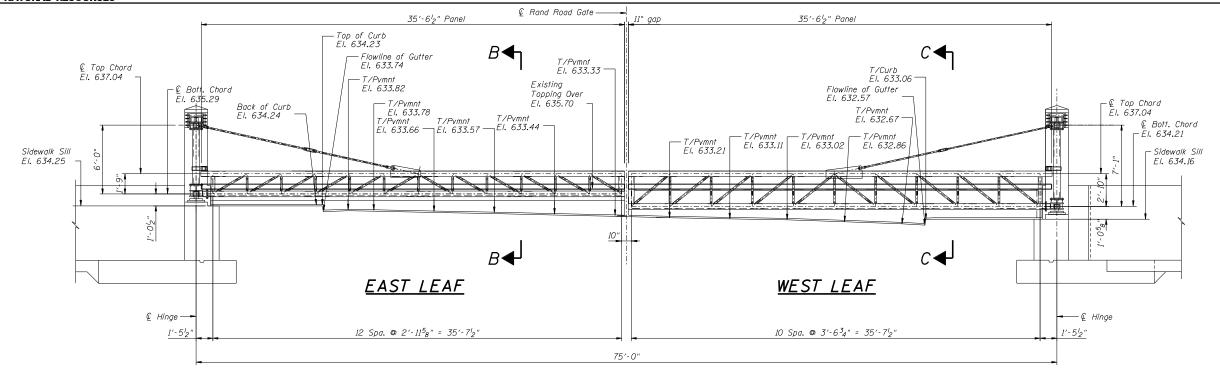
BILL OF MATERIAL

FR-431

Furnishing and Erecting Structural Steel

SCALE: NONE

220

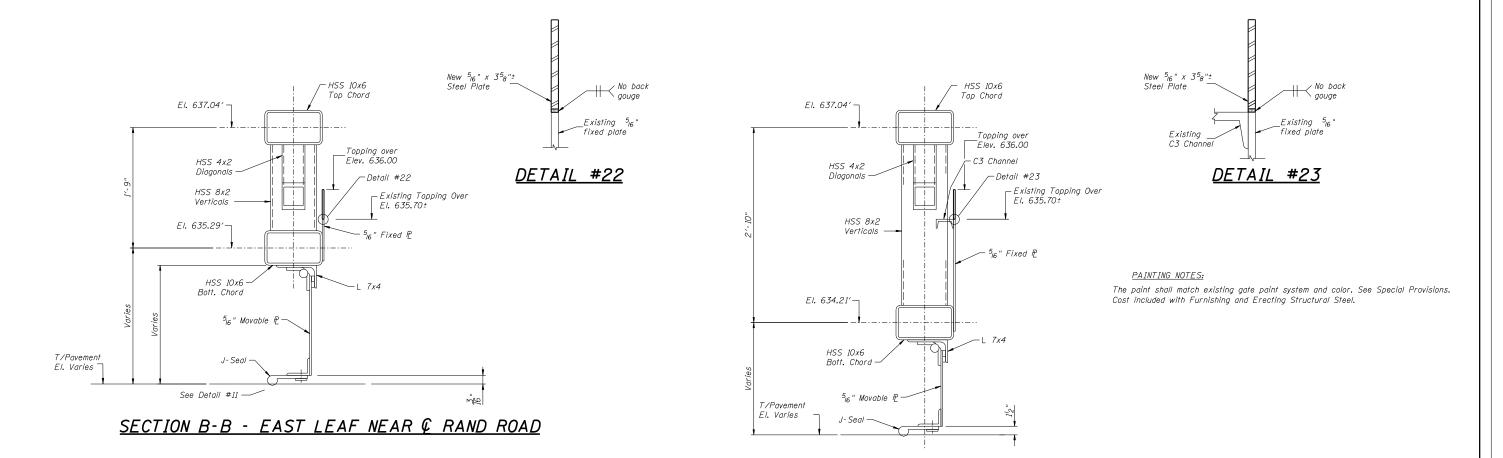


ELEVATION A-A - LOOKING SOUTH

9/1/2011

Σ

DESIGNE DRAWN



SECTION C-C - WEST LEAF AT GUTTER LINE

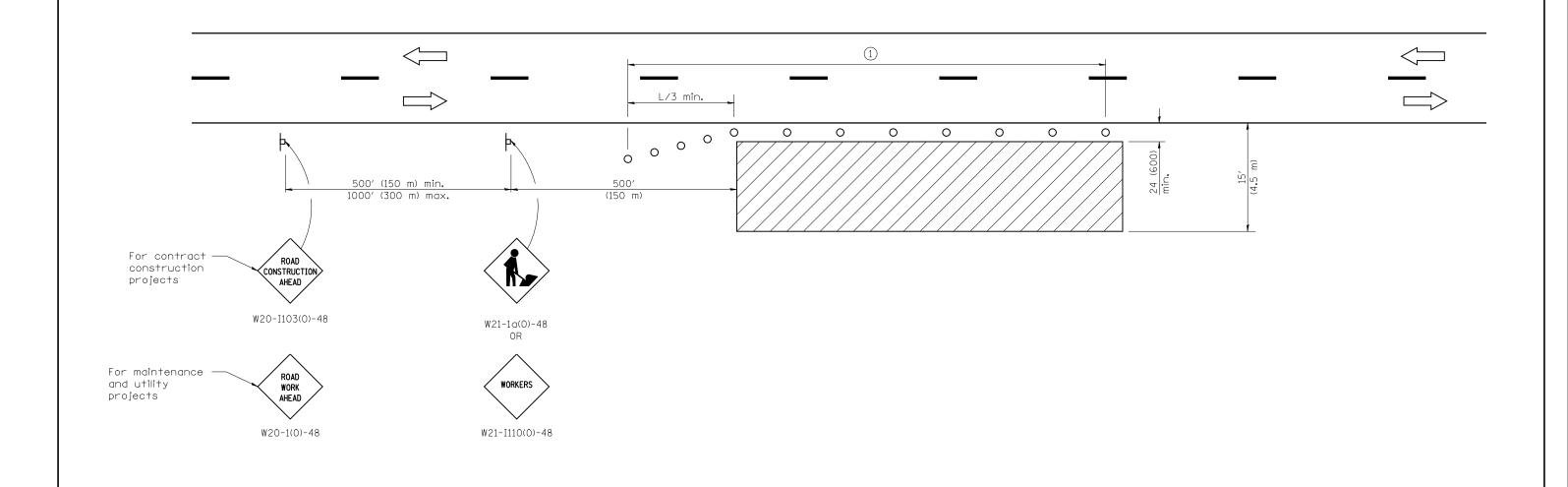
Pound

280

SCALE: NONE

BILL OF MATERIAL

Furnishing and Erecting Structural Steel



TYPICAL APPLICATIONS

Utility operations
Culvert extensions
Side slope changes
Guardrail installation and maintenance
Delineator installation
Landscaping operations
Shoulder repair
Sign installation and maintenance

(1) When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25′ (8 m) centers for L/3 distance, and at 50′ (15 m) centers through the remainder of the work area.

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT FORMULAS

English (Metric)

40 mph (70 km/h)

1 = WS

 $L = \frac{WS^2}{150}$

45 mph (80 km/h) or greater:

or less:

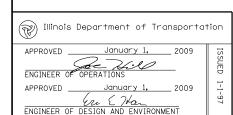
L=(W)(S) L=0.65(W)(S)

W = Width of offset

= Width ot ottset in feet (meters).

S = Normal posted speed mph (km/h).

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



O Cone, drum or barricade

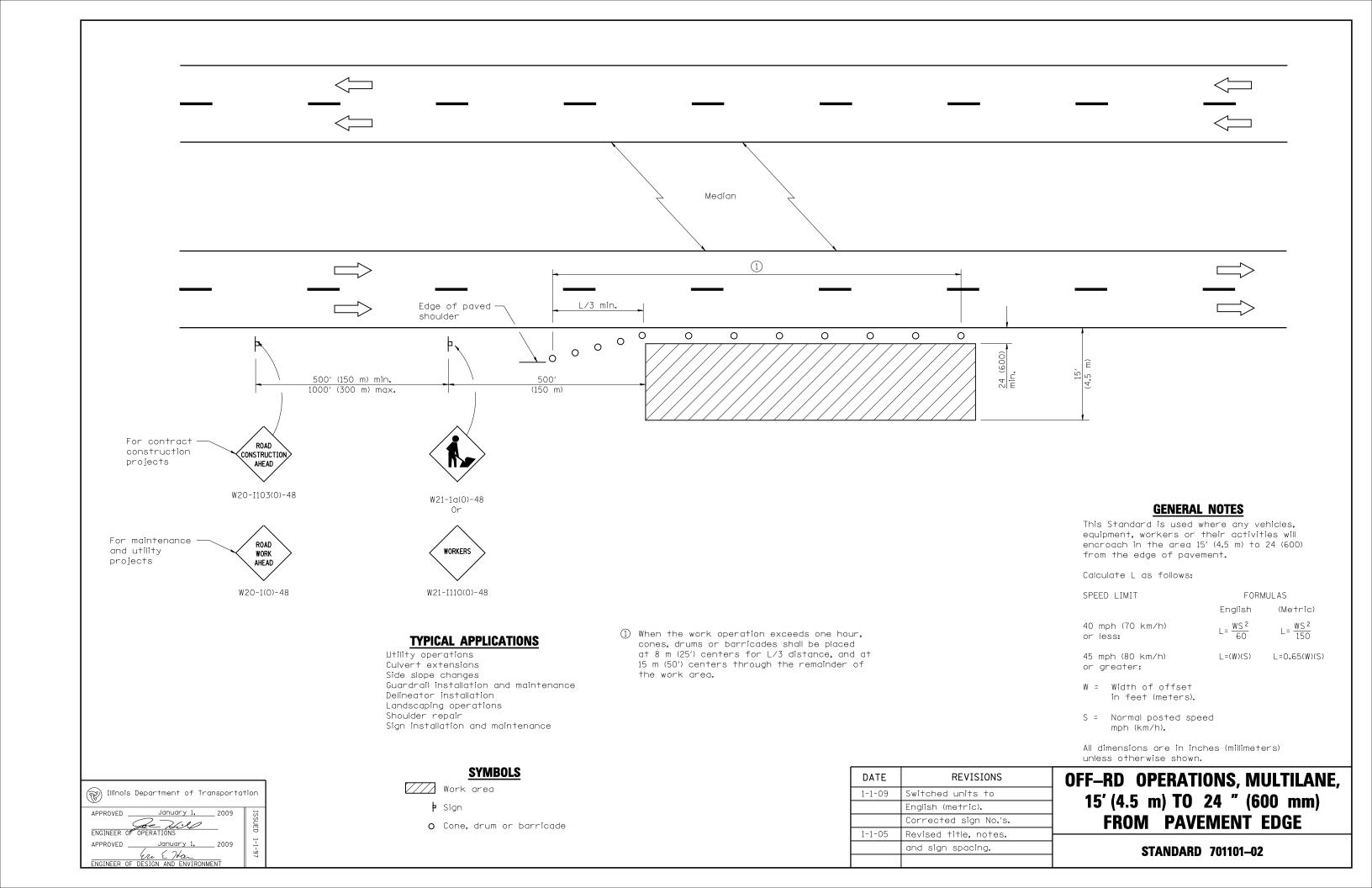
Work area

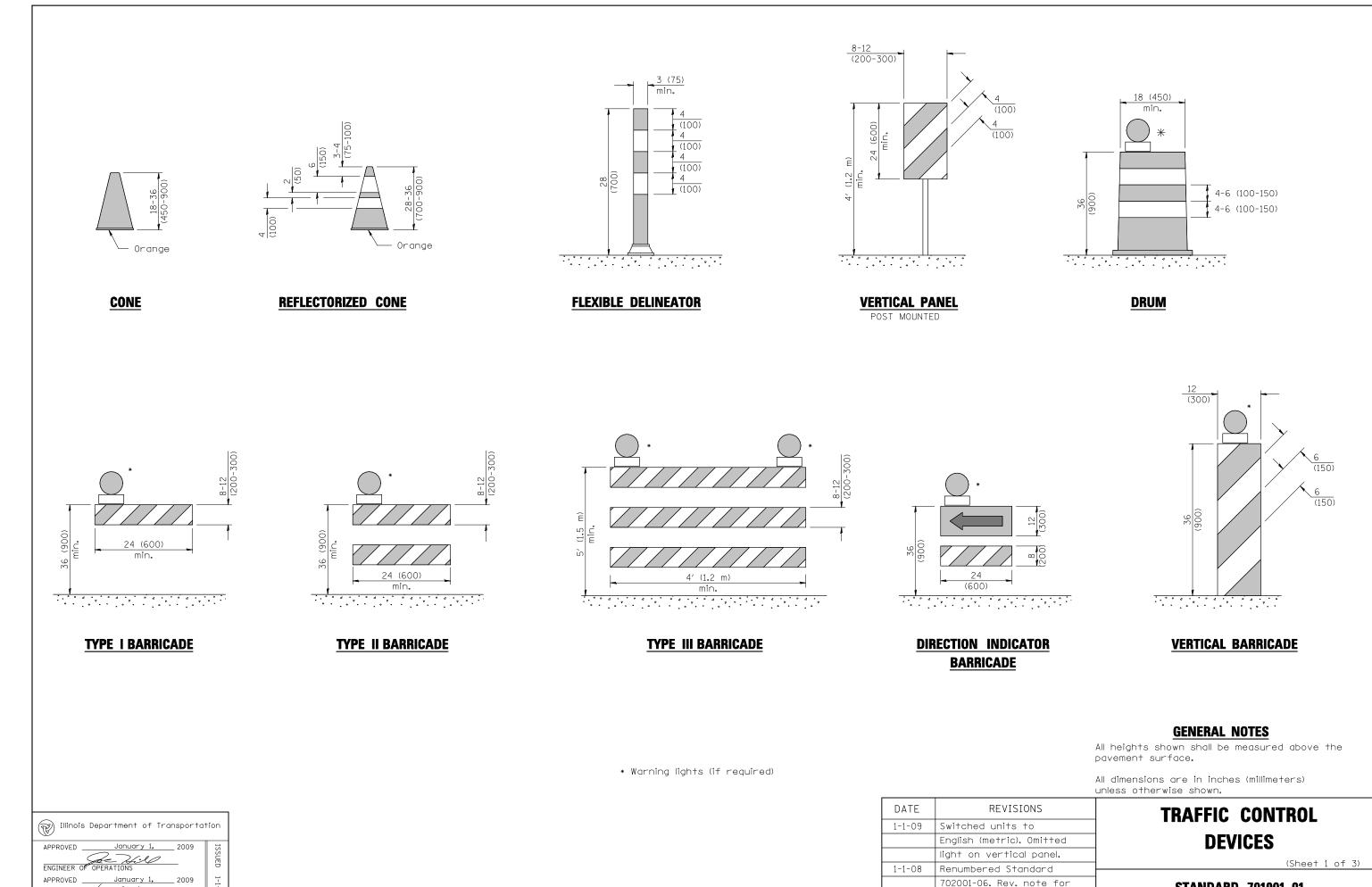
SYMBOLS

DATE	REVISIONS	
1-1-09	Switched units to	
	English (metric).	
	Corrected sign No.'s.	
1-1-05	Revised title, notes,	_
•	and sign spacing.	

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-03

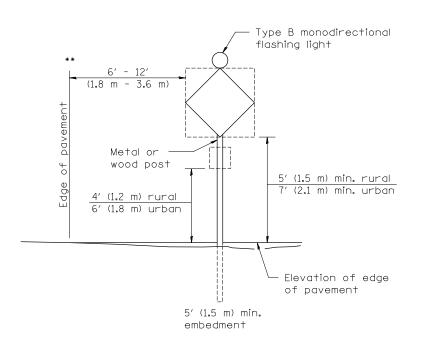




Eri E Han DESIGN AND ENV

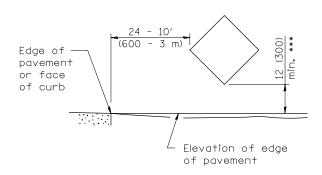
STANDARD 701901-01

temp. signs on Sheet 2.



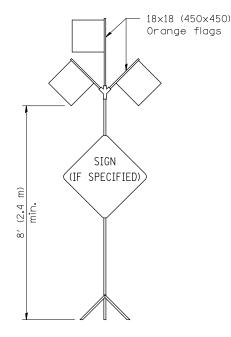
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen by motorists.



HIGH LEVEL WARNING DEVICE

ROAD CONSTRUCTION NEXT X MILES

END CONSTRUCTION

G20-1(0)-6036

G20-2a(0)-6024

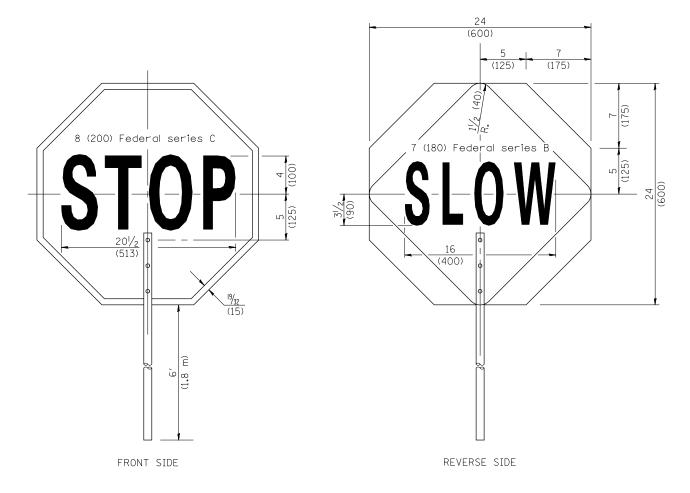
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multilane highways.

WORK LIMIT SIGNING



FLAGGER TRAFFIC CONTROL SIGN

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

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-01

