

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	8 R-B-1-2	WILL	28	1
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO.	60D81		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP 332 / ILLINOIS ROUTE 1
OVER TRIM CREEK
SECTION 8 R-B-1-2
BRIDGE DECK OVERLAY
PROJECT: ESP-0332 (091)
WILL COUNTY
C-91-115-08

FOR INDEX OF SHEETS SEE SHEET NUMBER 2

THIS IMPROVEMENT IS LOCATED IN
WASHINGTON TOWNSHIP WITHIN
UNINCORPORATED WILL COUNTY

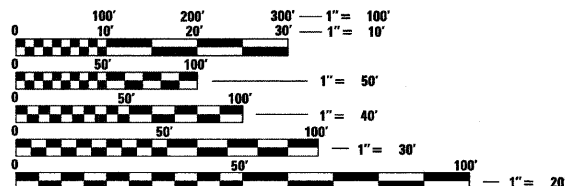
TRAFFIC DATA

2005 ADT - 7300
POSTED SPEED LIMIT - 55 MPH

IL 1 OVER TRIM CREEK

SN: 099-0079 (STA. 533+25.00)
SINGLE SPAN REINFORCED CONCRETE
T-BEAM BRIDGE ON CLOSED ABUTMENTS

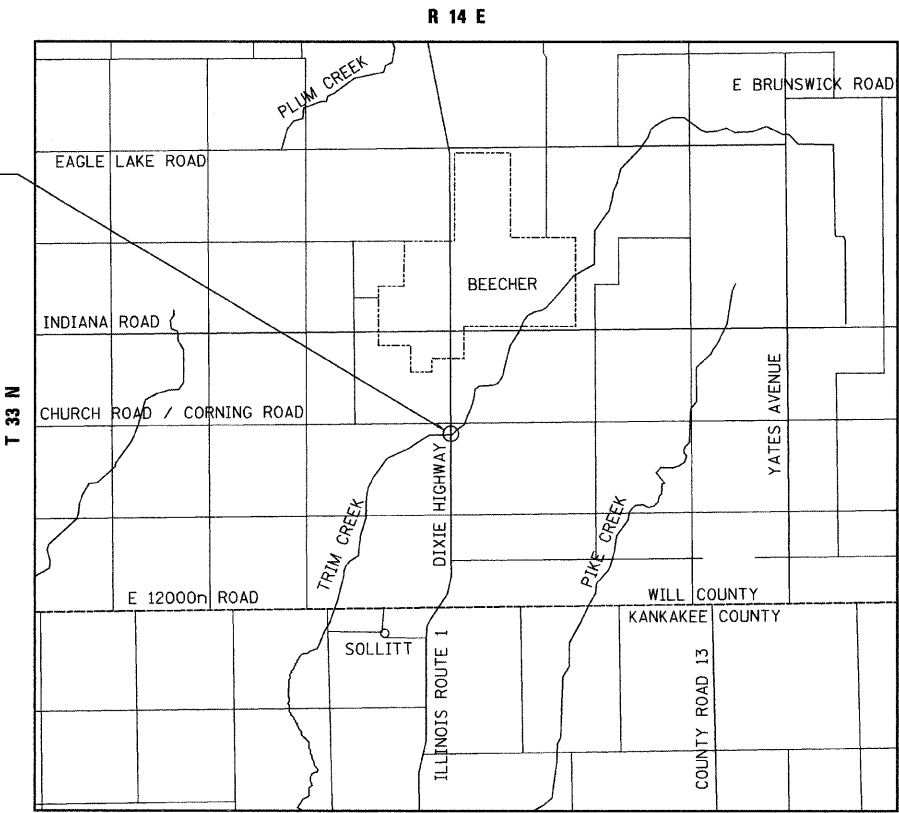
IMPROVEMENT LOCATION
SN: 099-0079



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

Ciorba Group, Inc.
DESIGN FIRM
REGISTRATION NUMBER
184-001016
CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE.
CHICAGO, ILLINOIS 60656 ☎ (773) 775-4009

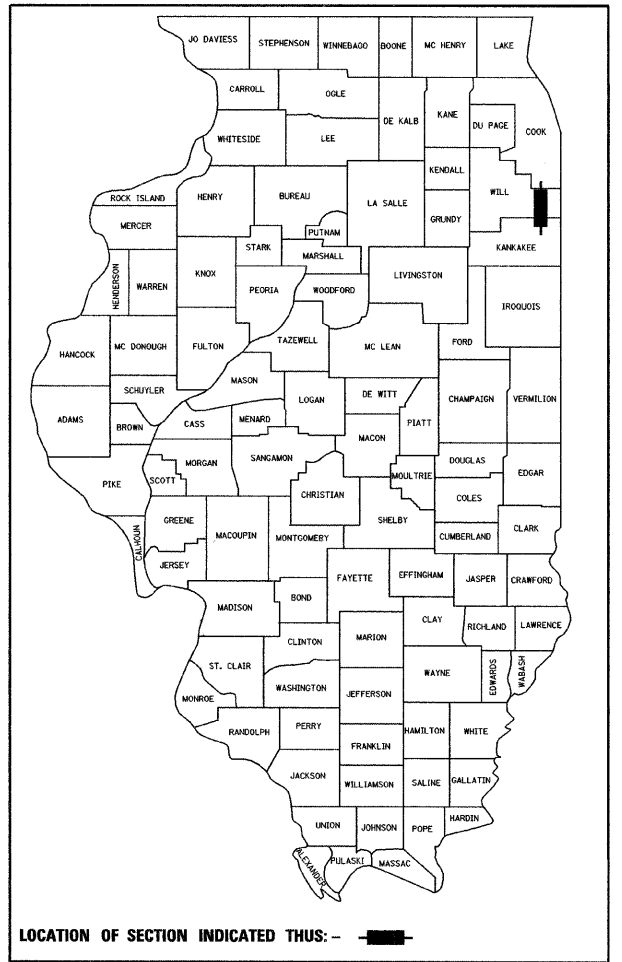


LOCATION MAP
1" = 5000'

GROSS AND NET LENGTH OF PROJECT = 680 FT = 0.13 MI



D-91-115-08



LOCATION OF SECTION INDICATED THIS: -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 8, 2009

Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 13, 2009
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

March 13, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

DISTRICT 1 DESIGN PLAN PREPARATION ENGINEER: K. ENG (847) 705-4247

CONTRACT NO. 60D81

INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	TITLE
2	INDEX OF SHEETS, GENERAL NOTES AND STATE STANDARDS
3	SUMMARY OF QUANTITIES
4	ALIGNMENT & CONTROL POINTS
5	EXISTING CONDITIONS AND REMOVAL PLAN
6	PROPOSED ROADWAY PLAN
7	TRAFFIC CONTROL AND PROTECTION - STAGE 1
8	TRAFFIC CONTROL AND PROTECTION - STAGE 2
9	PAVEMENT MARKING & LANDSCAPING PLAN
10-11	TEMPORARY TRAFFIC SIGNAL PLAN
12-15	TEMPORARY LIGHTING PLAN
16	GENERAL PLAN AND ELEVATION
17	STAGE CONSTRUCTION DETAILS
18	TEMPORARY CONCRETE BARRIER
19	ABUTMENT REPAIRS
20	BEAM REPAIRS
21	DECK REMOVAL AND REPAIRS
22	SUPERSTRUCTURE DETAILS
23	STEEL RAILING, TYPE 2399
24	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
25	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
26	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
27	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
28	ARTERIAL ROAD INFORMATION SIGN (TC-22)

STATE STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
420401-06	BRIDGE APPROACH PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
630001-03	STEEL PLATE BEAM GUARDRAIL
630301-03	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-04	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701321-10	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING LIGHT BEACON INSTALLATION

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATIONS 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.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PAVEMENT MARKING LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS, CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TRAFFIC CONTROL DEVICES.
- CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN ADVANCE OF THE PROJECT LIMITS AT LEAST ONE WEEK PRIOR TO LANE CLOSURE AND TEMPORARY TRAFFIC SIGNAL OPERATIONS.

COMMITMENTS

NONE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATIONS	MIXTURE TYPE	AC TYPE	PERCENT AIR VOIDS
ROADWAY RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm), 1 1/2"	PG 64-22	4% @ 70 GYR
	LEVELING BINDER (MACHINE METHOD), N70, 3/4" MIN.	PG 64-22*	4% @ 70 GYR
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm), 2"	PG 64-22	4% @ 70 GYR
	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 10" TO 13"	PG 64-22*	4% @ 70 GYR
TEMPORARY PAVEMENT, 10"	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 1 1/2"	PG 64-22	4% @ 50 GYR
	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 8 1/2"	PG 64-22*	4% @ 50 GYR

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

- WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

FILE NAME = N:\PROJ\3329\3329_26\Design\ProposedPlan\3329_26-02-index.dgn



Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = wjancaster	DESIGNED - JCC	REVISED -
	DRAWN - JCC	REVISED -
PLOT SCALE = 1.0000' / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 1/13/2009	DATE - 05/15/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 332 / ILLINOIS ROUTE 1
OVER TRIM CREEK
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES**

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

F.A.P. RTE. 332	SECTION 8 R-B-1-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 2
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60D81	

URBAN 100% FED

SUMMARY OF QUANTITIES			TOTAL QUANTITY	CONSTRUCTION CODE	
CODE NO.	DESCRIPTION	UNIT		ROADWAY 1000 2A	BRIDGE X081-2A
20200100	EARTH EXCAVATION	CU YD	375	375	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	475	475	
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1	
25100630	EROSION CONTROL BLANKET	SQ YD	500	500	
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	255	255	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	55	55	
40600300	AGGREGATE (PRIME COAT)	TON	1	1	
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	30	30	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	30	30	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	55	55	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	255	255	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	55	55	
44000100	PAVEMENT REMOVAL	SQ YD	490	490	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	120	120	
44000700	APPROACH SLAB REMOVAL	SQ YD	120	120	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	400	400	
50102400	CONCRETE REMOVAL	CU YD	6.7		6.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	5.8		5.8
50300260	BRIDGE DECK GROOVING	SQ YD	214		214
50300300	PROTECTIVE COAT	SQ YD	248		248
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	960		960
50900200	STEEL RAILING, TYPE 2399	FOOT	106		106
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	425	425	
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	310	310	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	1	3
67100100	MOBILIZATION	L SUM	1	0.2	0.8
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.2	0.8
70106705	TEMPORARY RUMBLE STRIP	EACH	7	7	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	8	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,050	1,050	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	550	550	

• SPECIALTY ITEM

URBAN 100% FED

SUMMARY OF QUANTITIES			TOTAL QUANTITY	CONSTRUCTION CODE	
CODE NO.	DESCRIPTION	UNIT		ROADWAY 1000 2A	BRIDGE X081-2A
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	550	550	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,700	1,700	
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	400	400	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10	
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	1	1	
78200450	MONODIRECTIONAL GUARDRAIL REFLECTORS	EACH	12	12	
78200530	BARRIER WALL MARKERS, TYPE C	EACH	45	45	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	650	650	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1	
82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	7	7	
83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	7	7	
84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	7	7	
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1	
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ YD	284		284
X0322185	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	218		218
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52	
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	4	4	
X0325239	TEMPORARY PAVEMENT 10"	SQ YD	400	400	
X0301280	PLUG EXISTING DRAINS	EACH	4		4
X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	2,900	2,900	
X0325841	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	55	55	
X0326135	ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL	EACH	1	1	
81800320	AERIAL CABLE, 3-1/C NO. 4, ALUMINUM, WITH MESSENGER WIRE	FOOT	1,400	1,400	
X8900005	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	2	2	
Z0006204	BRIDGE DECK HYDRO-SCARIFICATION 1/2"	SQ YD	218		218
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2	0.8
Z0015595	DECK DRAIN EXTENSIONS	EACH	8		8
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	

FILE NAME = N:\PROJ\3329\3329_26\Design\ProposedPlan\3329_26-03-req.dgn



Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = wloncester	DESIGNED - JCC	REVISED -
	DRAWN - JCC	REVISED -
PLOT SCALE = 1:8000' / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 1/13/2009	DATE - 05/15/2008	REVISED -

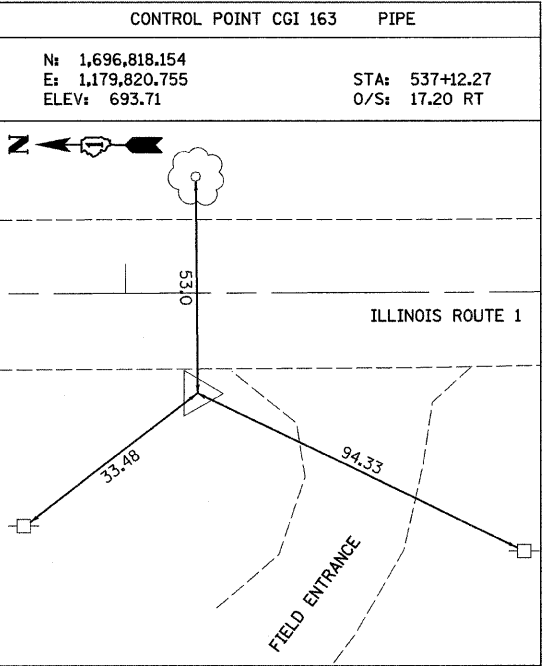
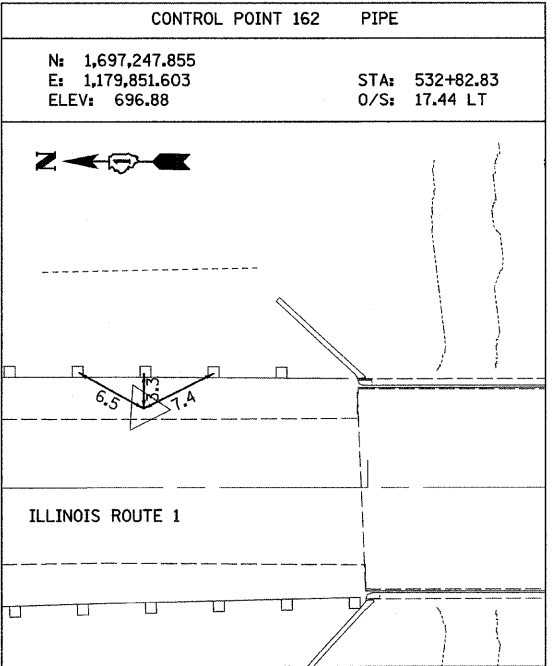
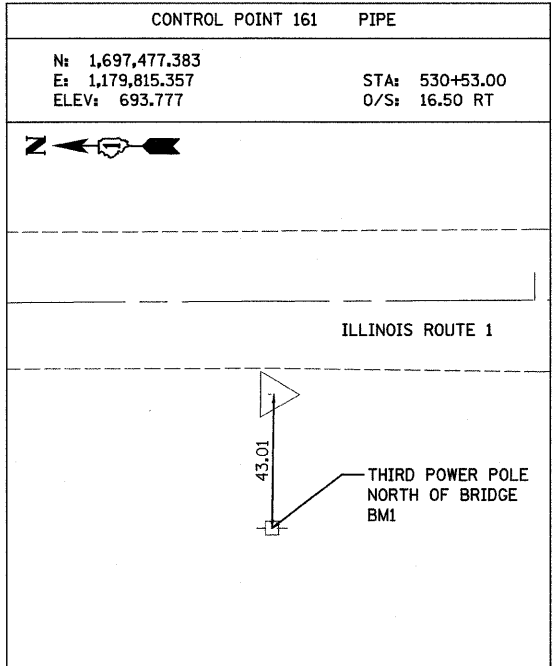
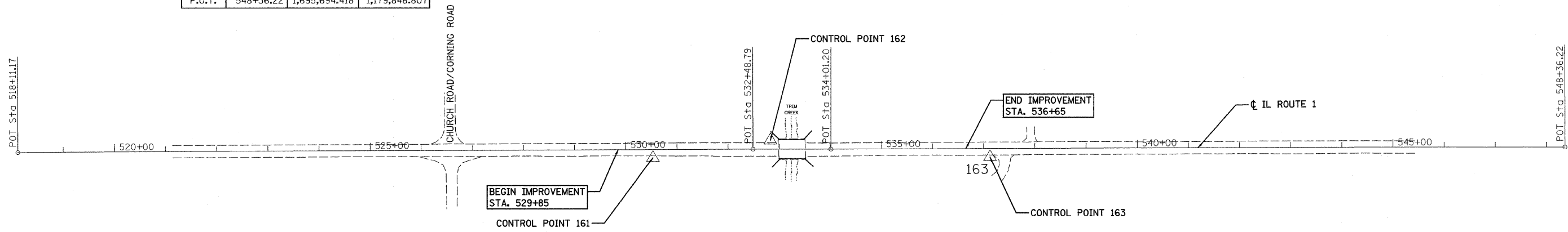
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 332 / ILLINOIS ROUTE 1
OVER TRIM CREEK
SUMMARY OF QUANTITIES**

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

F.A.P. RTE. 332	SECTION 8 R-B-1-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 3
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60D81	

ILLINOIS ROUTE 1 CENTERLINE			
DESCRIPTION	NORTHING	EASTING	
P.O.T.	518+11.17	1,698,719.317	1,179,818.641
P.O.T.	532+48.79	1,697,281.777	1,179,833.940
P.O.T.	534+01.20	1,697,129.367	1,179,834.952
P.O.T.	548+36.22	1,695,694.418	1,179,848.807



FILE NAME: n:\pro\332\332%_25\Design\ProposedPlan\332%_25-94-Alignment.dgn

Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014


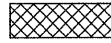
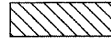
USER NAME = wlanoster	DESIGNED - JCC	REVISED -
PLOT SCALE = 100.0000' / IN.	DRAWN - JCC	REVISED -
PLOT DATE = 1/13/2009	CHECKED - MJL	REVISED -
	DATE - 05/15/2008	REVISED -

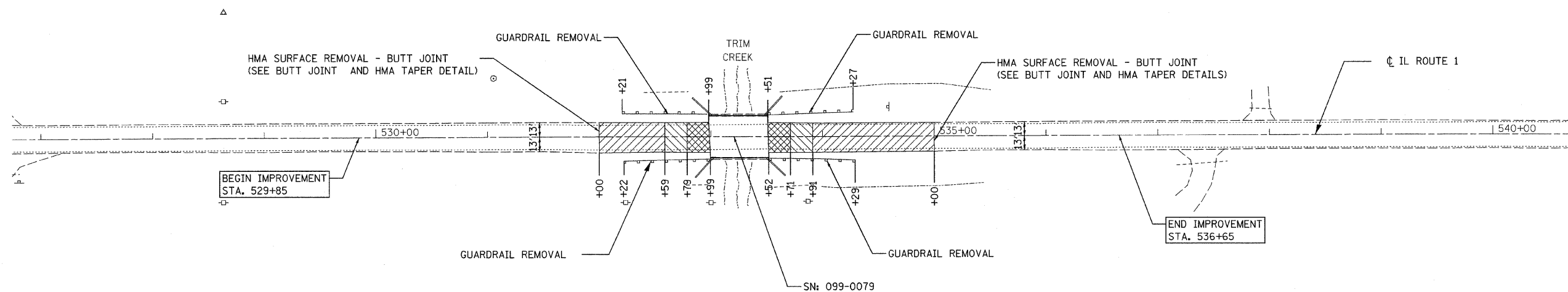
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 332 / ILLINOIS ROUTE 1 OVER TRIM CREEK ALIGNMENT AND CONTROL POINTS			
SCALE: 1"=100'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE. 332	SECTION 8 R-B-1-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D81	

LEGEND

-  HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
-  APPROACH SLAB REMOVAL
-  PAVEMENT REMOVAL



NOTE: THE EXISTING PAVEMENT CONSISTS OF 3 INCHES OF HOT-MIX ASPHALT OVER 9 INCHES OF PCC BASE COURSE

FILE NAME: n:\pro\3329\3329_26\Design\ProposedPlan_3329_26-05-Removal.dgn



Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel: 773.775.4009 Fax 773.775.4014

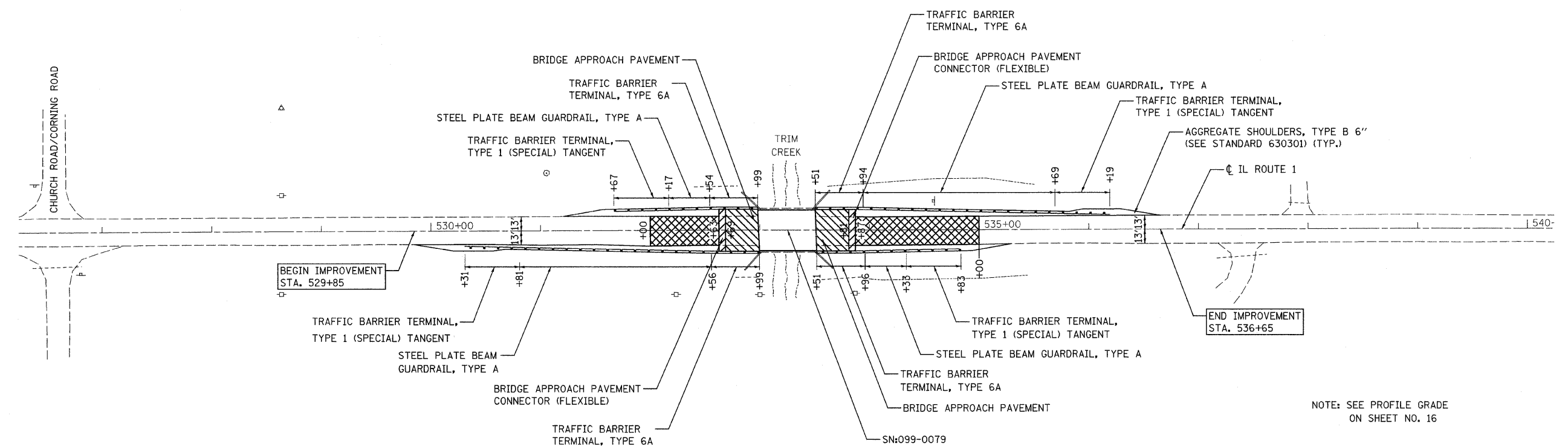
USER NAME = wlanester	DESIGNED - JCC	REVISED -
PLLOT SCALE = 50.0000' / IN.	DRAWN - JCC	REVISED -
PLLOT DATE = 1/13/2009	CHECKED - MJL	REVISED -
	DATE - 05/15/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 332 / ILLINOIS ROUTE 1
OVER TRIM CREEK
EXISTING CONDITIONS & REMOVAL PLAN**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	8 R-B-1-2	WILL	28	5
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D81	



- SUB-BASE GRANULAR MATERIAL, TYPE A 4" BRIDGE APPROACH PAVEMENT (SEE STANDARD 420401-06)
- BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 MM), 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 10" TO 13" (IN 4 LIFTS)
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 MM), 1 1/2" LEVELING BINDER (MACHINE METHOD), N70 VARIES 3/4" MIN. TO 1 3/4"

- NOTES:
- EARTH EXCAVATION QUANTITIES HAVE BEEN INCLUDED FOR THE FOLLOWING LOCATIONS:

FOR BRIDGE APPROACH PAVEMENT AND BRIDGE APPROACH CONNECTOR (FLEXIBLE)	174 CU YD
FOR TEMPORARY PAVEMENT	107 CU YD
FOR AGGREGATE SHOULDERS, TYPE B 6"	94 CU YD
 - SEE SHEET NO. 16 FOR PROFILE GRADE

FILE NAME = n:\p\proj\3329\3329_26\Design\ProposedPlan\3329_26-06-Pln.dgn

Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

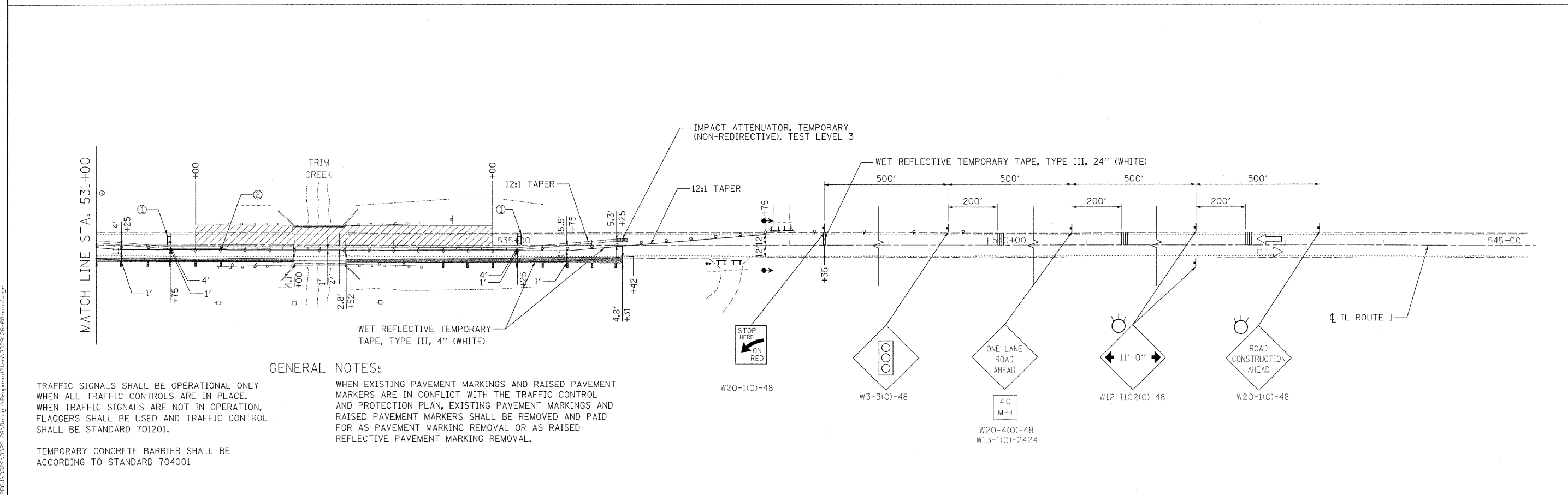
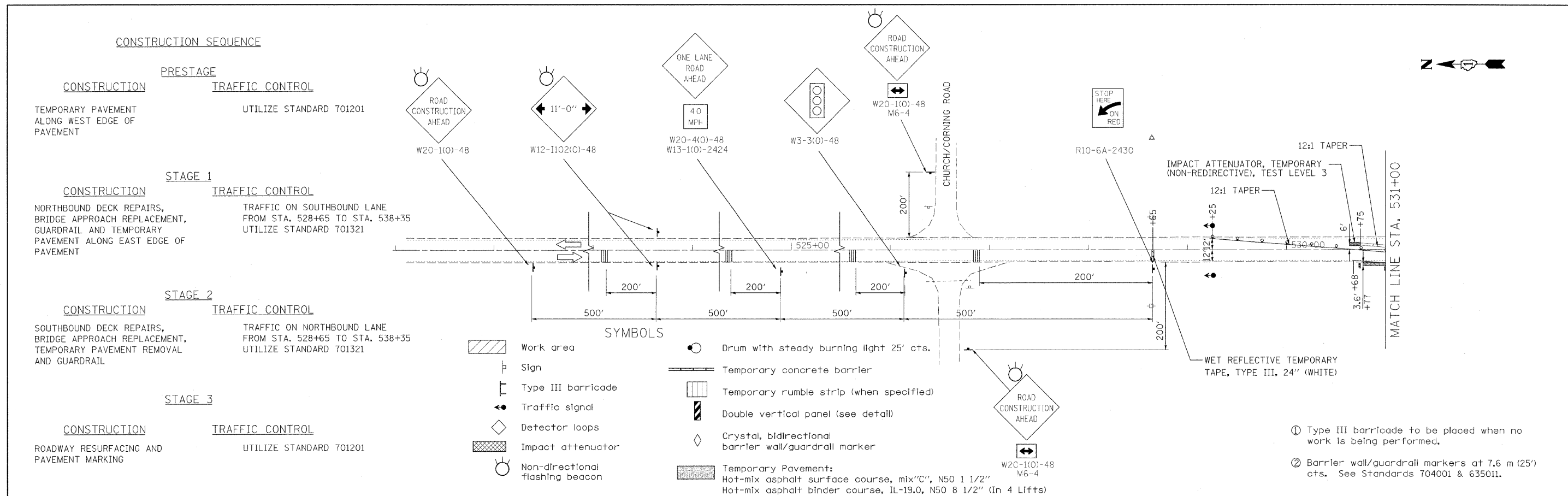
USER NAME = wlanoster	DESIGNED - JCC	REVISED -
PLOT SCALE = 50.0000' / IN.	DRAWN - JCC	REVISED -
PLOT DATE = 1/13/2009	CHECKED - MJL	REVISED -
	DATE - 05/15/2008	REVISED -

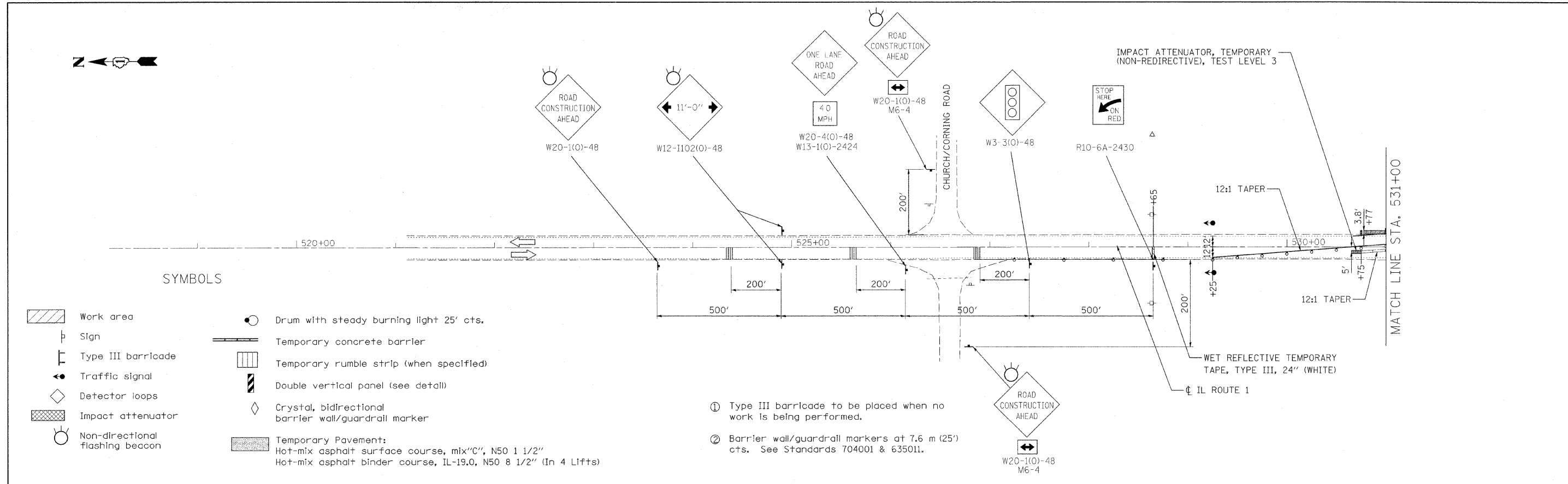
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 332 / ILLINOIS ROUTE 1
OVER TRIM CREEK
PROPOSED ROADWAY PLAN**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	8 R-B-1-2	WILL	28	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D81	

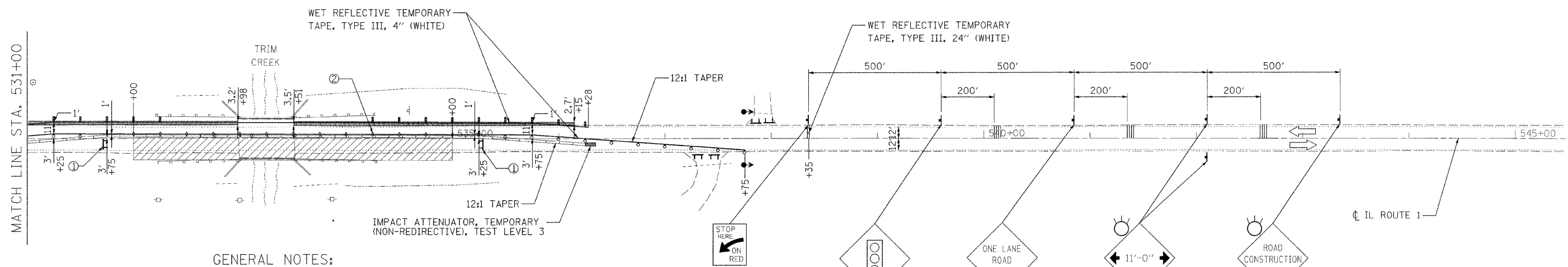




SYMBOLS

- Work area
- Sign
- Type III barricade
- Traffic signal
- Detector loops
- Impact attenuator
- Non-directional flashing beacon
- Drum with steady burning light 25' cts.
- Temporary concrete barrier
- Temporary rumble strip (when specified)
- Double vertical panel (see detail)
- Crystal, bidirectional barrier wall/guardrail marker
- Temporary Pavement:
Hot-mix asphalt surface course, mix "C", N50 1 1/2"
Hot-mix asphalt binder course, IL-19.0, N50 8 1/2" (In 4 Lifts)

- ① Type III barricade to be placed when no work is being performed.
- ② Barrier wall/guardrail markers at 7.6 m (25') cts. See Standards 704001 & 635011.



GENERAL NOTES:

TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL BE STANDARD 701201.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001

WHEN EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS ARE IN CONFLICT WITH THE TRAFFIC CONTROL AND PROTECTION PLAN, EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS SHALL BE REMOVED AND PAID FOR AS PAVEMENT MARKING REMOVAL OR AS RAISED REFLECTIVE PAVEMENT MARKING REMOVAL.

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = mbalog	DESIGNED - JCC	REVISED -
PLLOT SCALE = 50.0000 1/ IN.	DRAWN - JCC	REVISED -
PLLOT DATE = 1/13/2009	CHECKED - MJL	REVISED -
	DATE - 05/15/2008	REVISED -

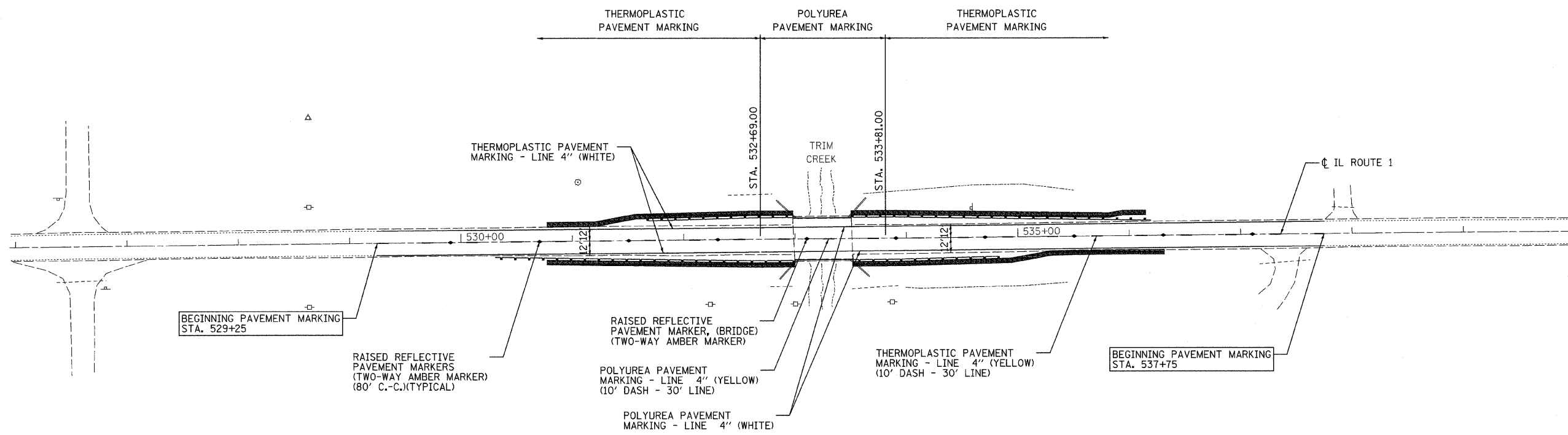
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


**FAP 332 / ILLINOIS ROUTE 1
OVER TRIM CREEK
TRAFFIC CONTROL AND PROTECTION - STAGE 2**

SCALE: 1"=50'

F.A.P. RTE. 332	SECTION 8 R-B-1-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 8
CONTRACT NO. 60D81				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FILE NAME = N:\PROJ\332\332\26\Design\Proposed\Plan\332_26-09-mo1.dgn




 TOPSOIL FURNISH AND PLACE, 4"
 SEEDING CLASS 2A
 EROSION CONTROL BLANKET

FILE NAME = m:\proj\3329\3329_26\Design\ProposedPlan\3329_26-07-atr-tpm.dgn


Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

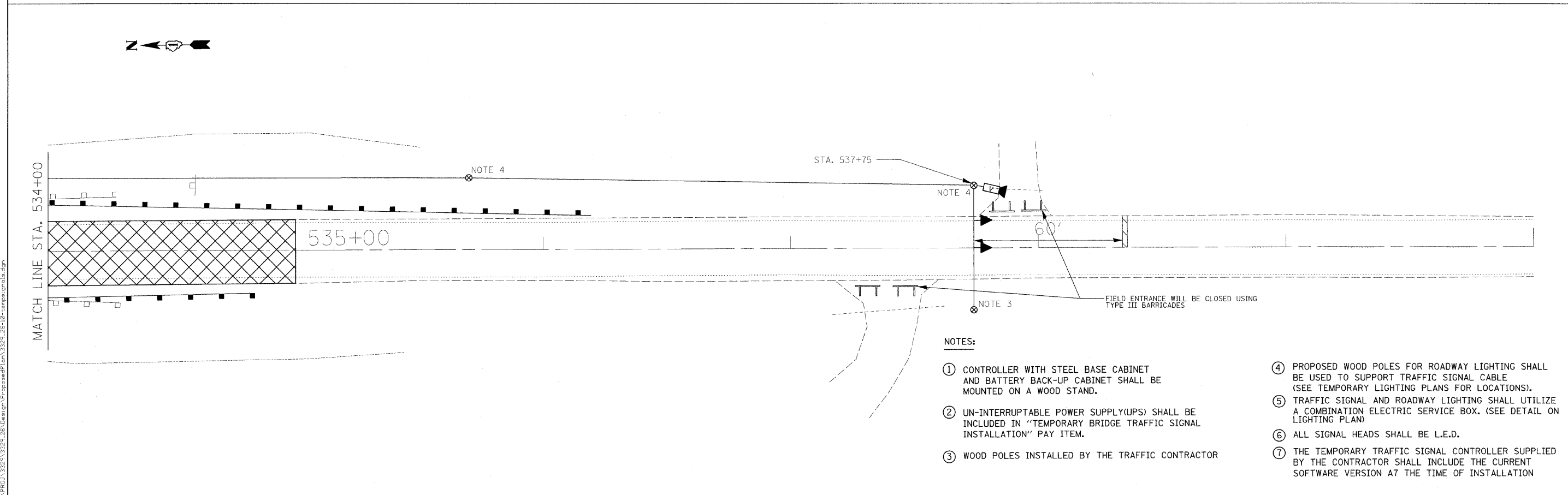
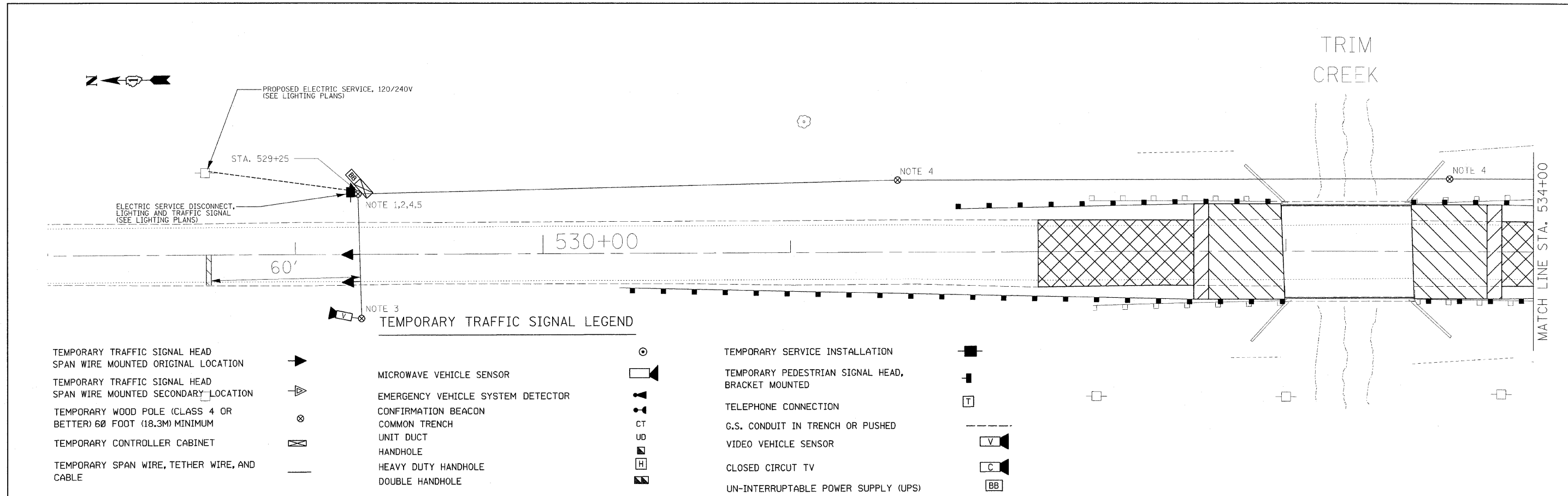
USER NAME = wlooster	DESIGNED - jcc	REVISED -
PLOT SCALE = 50.0005' / IN.	DRAWN - jcc	REVISED -
PLOT DATE = 1/13/2009	CHECKED - ML	REVISED -
	DATE - 05/15/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 332 / ILLINOIS ROUTE 1
OVER TRIM CREEK
PAVEMENT MARKING & LANDSCAPING PLAN

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	8 R-B-I-2	WILL	28	9
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D81	



Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60658
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = mbelog	DESIGNED - JCC	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - JCC	REVISED -
PLOT DATE = 1/13/2009	CHECKED - MJL	REVISED -
	DATE - 05/15/2008	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAP 332 / ILLINOIS ROUTE 1
 OVER TRIM CREEK
 TEMPORARY TRAFFIC SIGNALS**

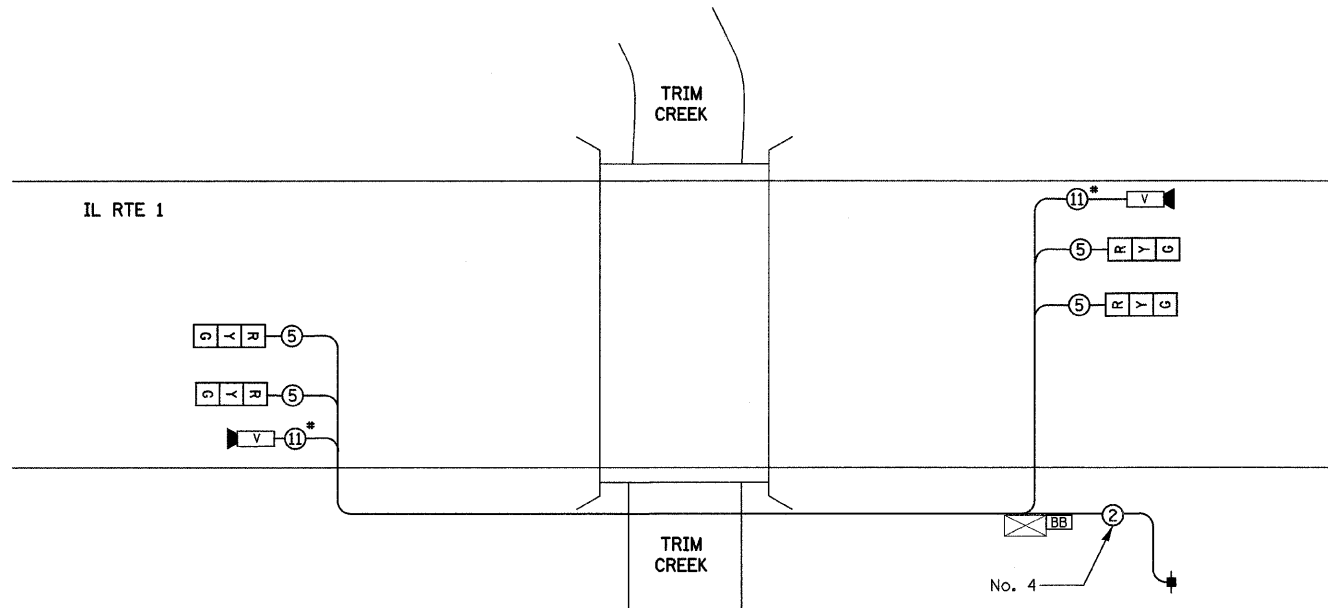
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 8 R-B-1-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 10
CONTRACT NO. 60D81				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

FILE NAME = N:\PROJ\332\332_28\Design\ProposedPlan\332_28-10-temptraf.dgn

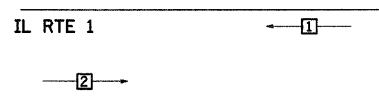
NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR, EVP WILL BE PAID FOR SEPARATELY.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET, ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT. A REPRESENTATIVE OF THE TRAFFIC SIGNAL CONTROLLER/CABINET VENDOR/SUPPLIER MUST BE PRESENT AT THE TRAFFIC SIGNAL TURN ON.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm), HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS, EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. 24" WHITE STOP BAR TO BE INSTALLED AFTER THE INSTALLATION AND IMPLEMENTATION OF THE TEMPORARY TRAFFIC SIGNALS.
8. THE VIDEO CAMERA VENDOR/SUPPLIER REPRESENTATIVE WILL ASSIST THE CONTRACTOR IN THE EQUIPMENT SETUP/PLACEMENT OF CAMERAS AND WILL BE PRESENT AT THE TRAFFIC SIGNAL TURN ON.



* NOTE: OR AS SPECIFIED BY CAMERA VENDOR

CONTROLLER SEQUENCE



PHASE DESIGNATION



LEGEND

- ◻ SINGLE ENTRY PHASE
- ◊ OL OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY CABLE DIAGRAM LEGEND

- ◻ TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- ⑤ INDICATES NUMBER OF CONDUCTORS IN CABLE, ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ▶ EMERGENCY VEHICLE LIGHT DETECTOR
- ▼ CONFIRMATION BEACON
- PEDESTRIAN PUSHBUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- ⊠ 12" (300mm) PEDESTRIAN SIGNAL SECTION
- ⊠ MICROWAVE VEHICLE SENSOR
- ⊠ VIDEO DETECTOR SENSOR
- ⊠ CLOSED CIRCUIT TV
- ⊠ BATTERY - BACK UP
- ⊠ TELEPHONE CONNECTION

SUMMARY OF QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
X8900005	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1

NOTE:

EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	4	135	17	0.50	34
(YELLOW)	4	135	25	0.25	25
(GREEN)	4	135	15	0.25	15
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
VIDEO CAMERA	2		45	1.00	90

ENERGY COSTS TO:		TOTAL =
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHALMURG, ILLINOIS 60196-1096		264
ENERGY SUPPLY CONTACT: KATHY NYSTROM PHONE: (847) 816-5489 COMPANY: COM. ED.		

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	ALL FOUNDATIONS	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	MAST ARM (L) POLE	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	20'-H-2'	
E - M. ARM POLE		SIGNAL POST	2 (0.6)	(6m+L-0.6m)=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.3)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.3)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)



48 - HOURS BEFORE DIGGING

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = wlancaester	DESIGNED - RBG	REVISED -
PLOT SCALE = 50.0000' / IN.	DRAWN - JAG	REVISED -
PLOT DATE = 1/13/2009	CHECKED - MJL	REVISED -
	DATE = 05/15/2008	REVISED -

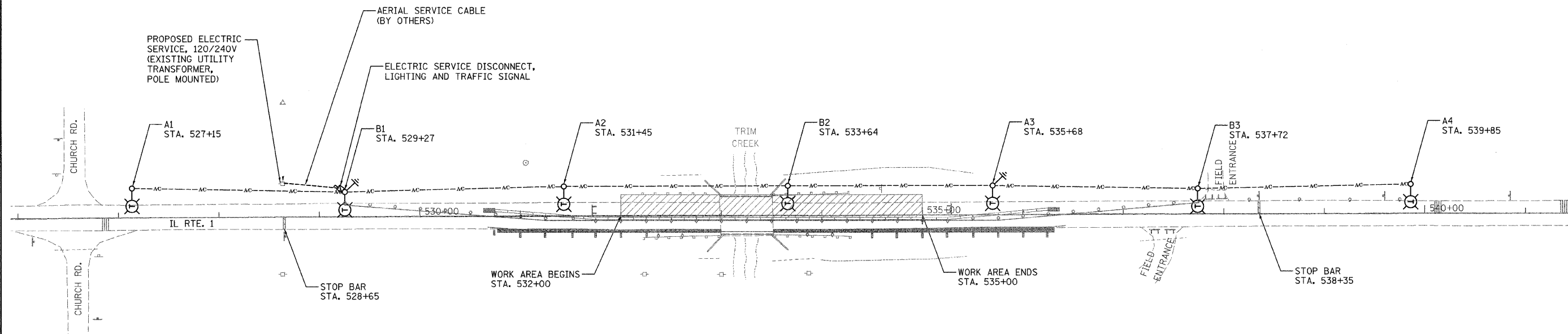
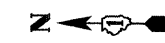
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 332 / ILLINOIS ROUTE 1
OVER TRIM CREEK
TEMPORARY CABLE PLAN & TEMPORARY PHASE DESIGNATION DIAGRAM
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	8 R-B-1-2	WILL	28	11

CONTRACT NO. 60D81
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

FILE NAME = n:\prow\332\324\324_26\Design\Proposed\Plan\332_26-11-tempcables.dgn



LEGEND:

- TEMPORARY LIGHTING UNIT
50 FT. MOUNTING HEIGHT, 15 FT. MAST ARM
400 WATT, 120 VOLT LUMINAIRE WITH PHOTOCELL
ON EACH LUMINAIRE
- AERIAL CABLE, 3-1/C NO. 4, ALUMINUM, WITH MESSENGER WIRE
- GROUND ROD, 5/8" DIAMETER X 10 FT.
- ELECTRIC SERVICE DISCONNECT, LIGHTING
AND TRAFFIC SIGNAL
- EXISTING UTILITY POLE

NOTES

1. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE THE START OF CONSTRUCTION.
2. POLE SHALL BE SETBACK 18 FT. FROM THE EDGE OF THE TRAVELLED PAVEMENT, UNLESS OTHERWISE REQUIRED BY THE FIELD CONDITIONS.
3. TEMPORARY LIGHTING SHALL REMAIN OPERATIONAL FOR BOTH STAGE I AND STAGE II. STAGE I SHOWN.
4. ALL POLES SHOWN ON THIS PLAN SHALL BE INSTALLED BY THE LIGHTING CONTRACTOR.



FILE NAME = n:\proj\332\332_26\design\lighting\332_26-1.rpt.plt

Ciorba Group, Inc.
CONSULTING ENGINEERS
6507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60655
Tel: 773.775.4009 Fax 773.775.4014

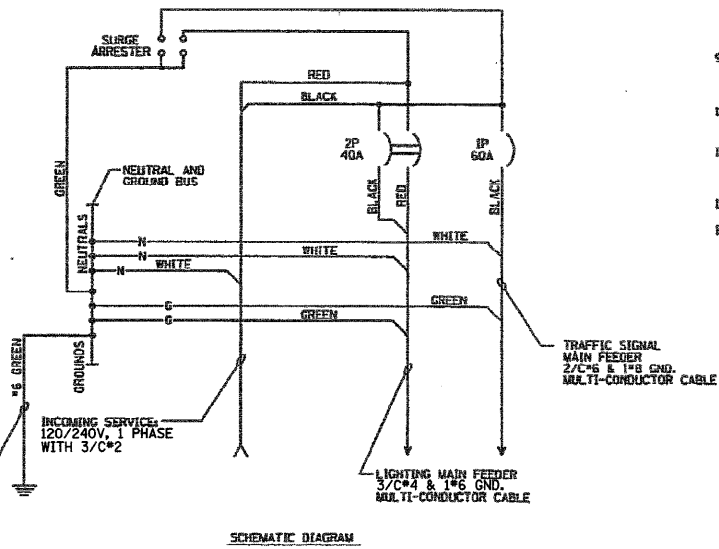
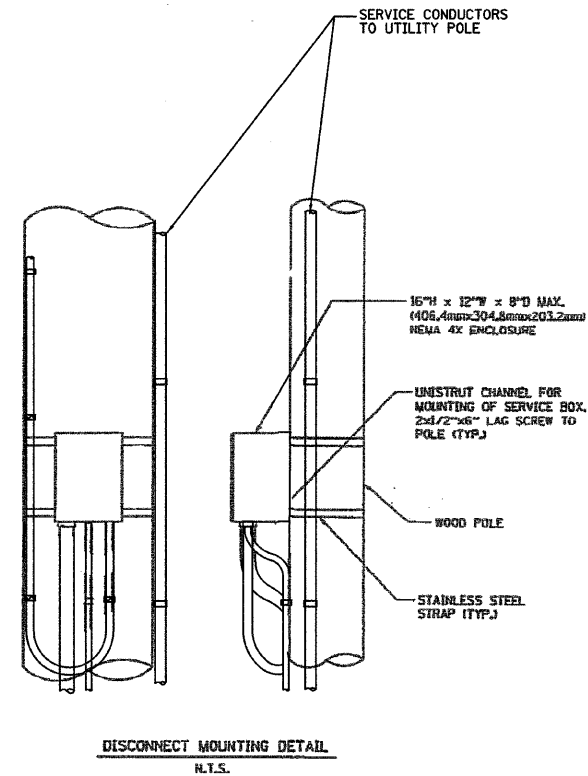
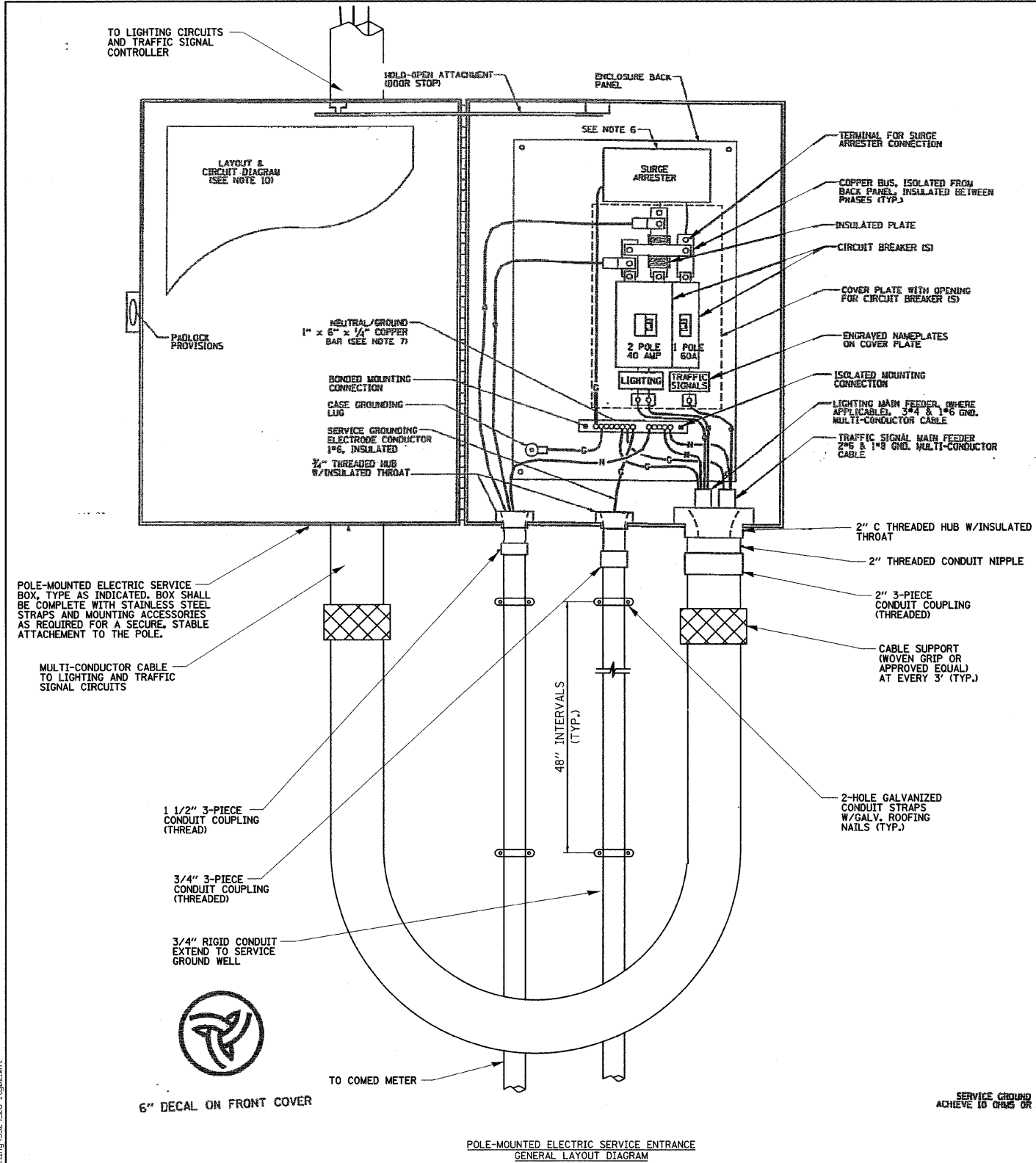
USER NAME = wjencaster	DESIGNED - JMV	REVISED -
PLOT SCALE = 5/16" = 1' IN.	DRAWN - MB	REVISED -
PLOT DATE = 1/13/2009	CHECKED - JMV	REVISED -
	DATE - 05/15/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 332 / ILLINOIS ROUTE 1
ILLINOIS ROUTE 1 OVER TRIM CREEK
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 8 R-B-I-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 12
CONTRACT NO. 60D81				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



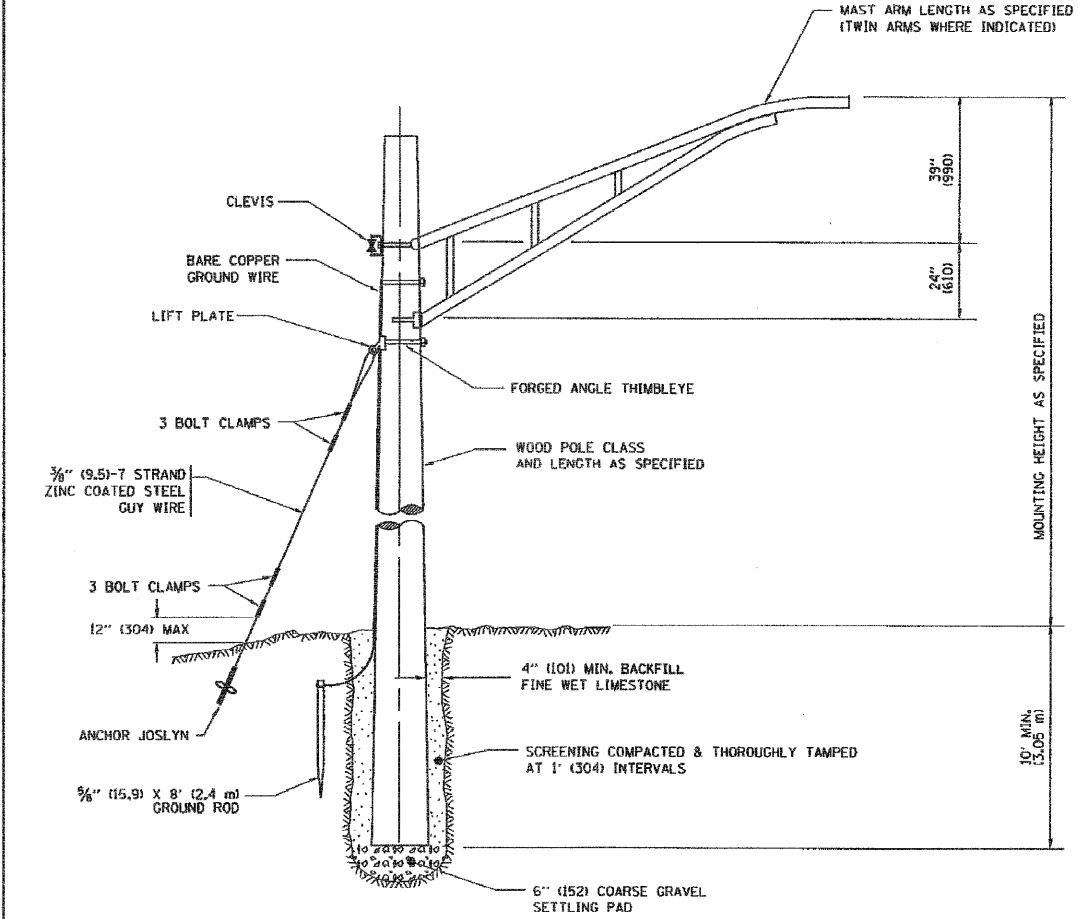
- NOTES:
1. ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
 2. THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:

TYPE A	FULLY EQUIPPED FOR 240/120V, 3Ø SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
TYPE A1	FULLY EQUIPPED FOR 240/120V, 3Ø SERVICE, BLANK COVER IN LBSJ OF LIGHTING MAIN BREAKER
TYPE B	EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 60A, TRAFFIC SIGNALS MAIN BREAKER
TYPE B1	EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 40A, TRAFFIC SURVEILLANCE MAIN BREAKER
 3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
 4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12" W X 16" H X 8" D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H20855LP/A-16 P12/A-D5TOP/C-P4K12, OR APPROVED EQUAL.
 5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
 6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE LISTED PER UL 1449, CUTLER-HAMMER CM0V230L66SXST OR APPROVED EQUAL.
 7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
 8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
 9. THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
 10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
 11. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
 12. LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
 13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

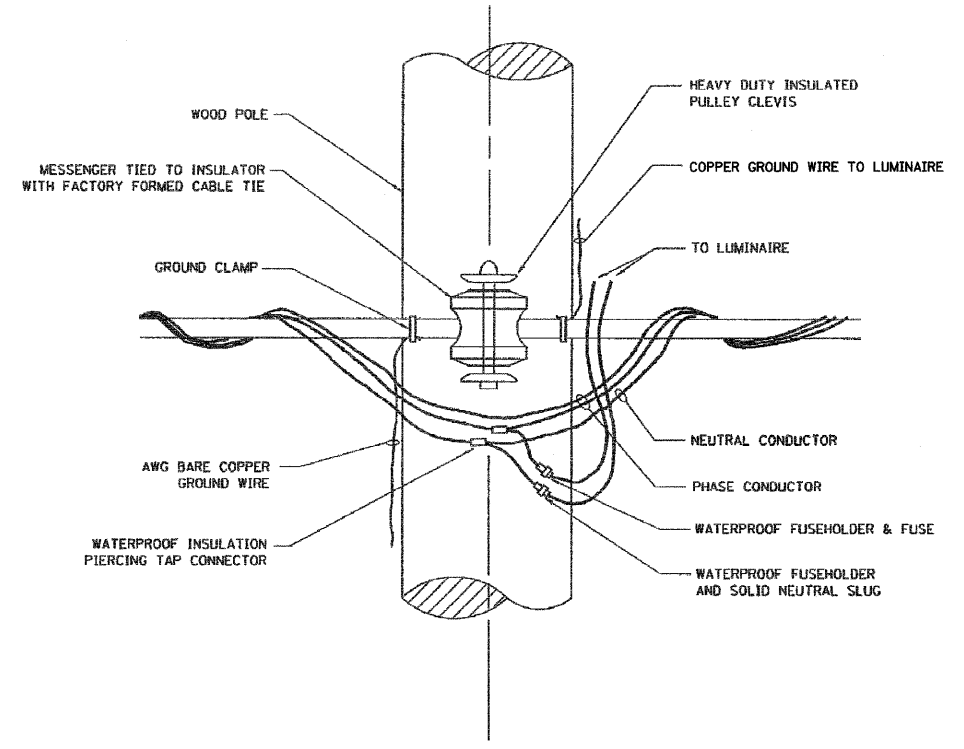


FILE NAME: n:\p\0\3329\3329_26\design\lighting\3329_26-1.rvt

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES:
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
	08/08/03	TEMPORARY LIGHT POLE DETAILS
		SCALE: VERT. NONE HORIZ.
		DRAWN BY CHECKED BY BE-B00

PLT DATE = 1/13/2009
FILE NAME = \\snp\3329\3329_26\design\lighting\3329_26-1-light.dwg
PLOT SCALE = 1:1
USER NAME = jward

FILE NAME = \\snp\3329\3329_26\design\lighting\3329_26-1-light.dwg

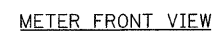
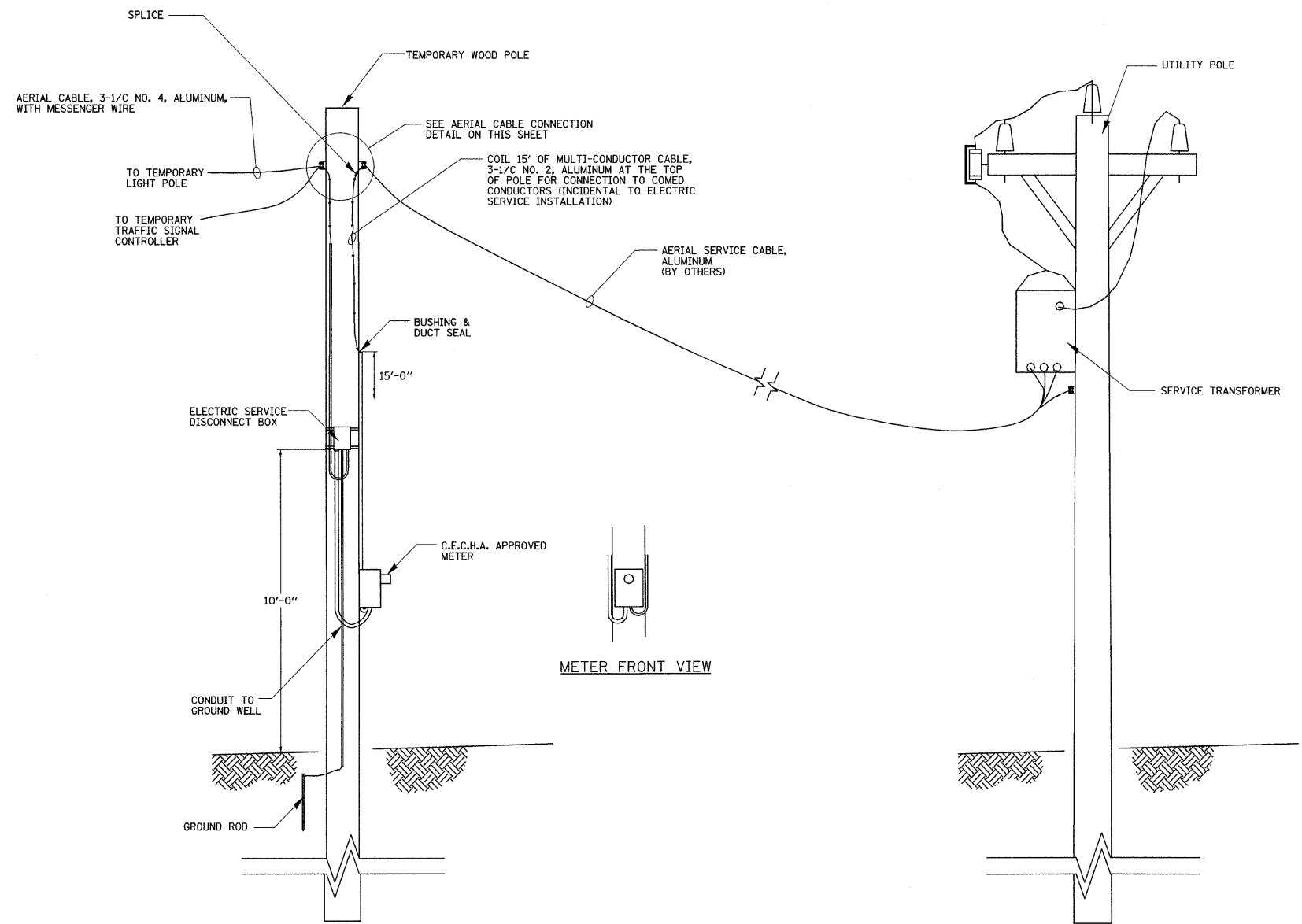
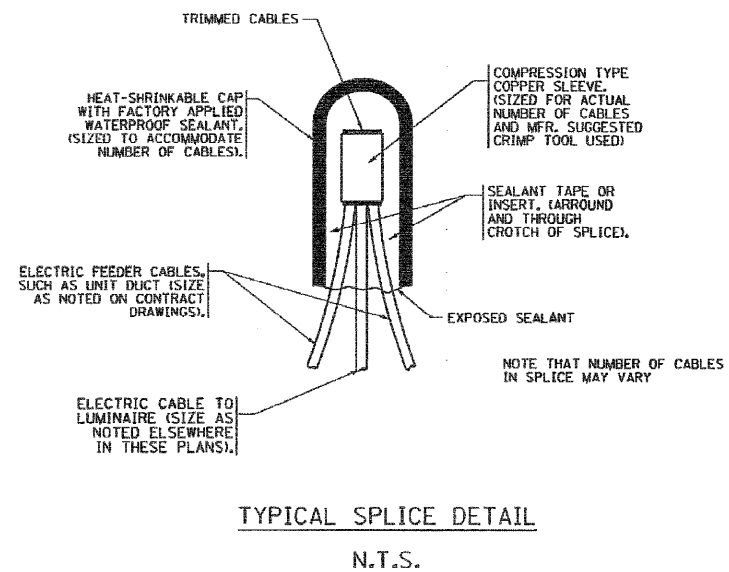
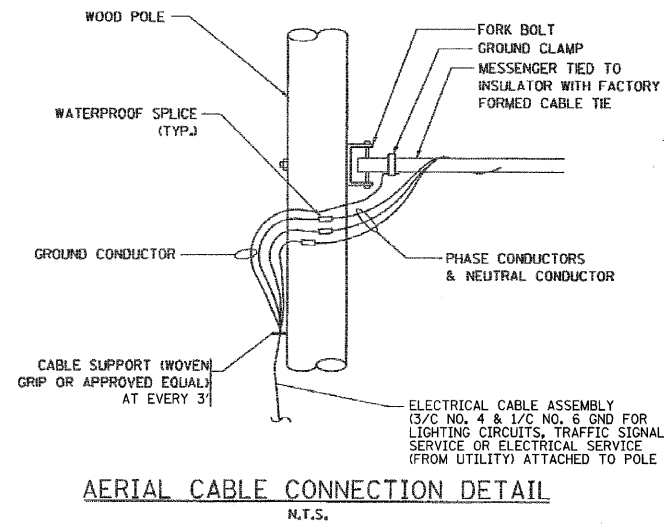
Ciorba Group, Inc.
CONSULTING ENGINEERS
8507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = jward	DESIGNED - JMV	REVISED -
	DRAWN - MB	REVISED -
PLOT SCALE = 1:200	CHECKED - JMV	REVISED -
PLOT DATE = 1/13/2009	DATE - 05/15/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 332 / ILLINOIS ROUTE 1
ILLINOIS ROUTE 1 OVER TRIM CREEK
TEMPORARY LIGHTING PLAN
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	8 R-B-I-2	WILL	28	14
CONTRACT NO. 60D81				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



NOTE:
COMMONWEALTH EDISON SHALL BE CONTACTED BEFORE THE INSTALLATION WORK BEGINS FOR THE ELECTRIC SERVICE INSTALLATION.



FILE NAME = n:\pno\3329\3329_26\design\lighting\3329_26-1494.dwg

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel: 773.775.4005 Fax: 773.775.4014

USER NAME = wlancaster	DESIGNED - JMV	REVISED -
PLOT SCALE = 1:8201' / IN.	DRAWN - MB	REVISED -
PLOT DATE = 1/13/2009	CHECKED - JMV	REVISED -
	DATE - 05/15/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 332 / ILLINOIS ROUTE 1
OVER TRIM CREEK
TEMPORARY LIGHTING DETAILS

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 8 R-B-I-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 15
CONTRACT NO. 60DB1				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Benchmark: Chiseled "□" S-W Curb bridge Sta. 533+51 0/S 21' RT. Elev. 697.82

Existing Structure: S.N. 099-0079 built in 1949 as a single span reinforced cast in place concrete T-beam bridge on closed abutments on spread footings. The structure measures 53'-0" Back to Back of abutments and 40'-4" out to out of deck. Traffic is to be maintained utilizing stage construction. One lane of traffic for both directions will be provided by using temporary traffic signals.

Salvage: None.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.

Reinforcement Bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL modified)

Existing name plate is to be removed, cleaned and relocated on the inside face of railing as shown. Cost included in Concrete Removal.

No future wearing surface will be allowed.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS (new construction)	EXIST. CONSTRUCTION
f'c = 3,500 psi	f'c = 3,000 psi (Superstr.)
fy = 60,000 psi	f'c = 2,000 psi (Substr.)
	fy = 40,000 psi (Reinf.)

LAST DELAMINATION SURVEY

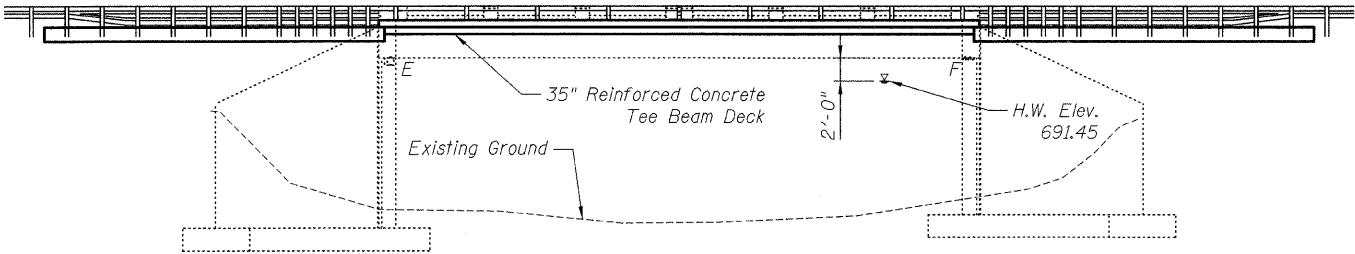
November 20, 2007

INDEX OF SHEETS

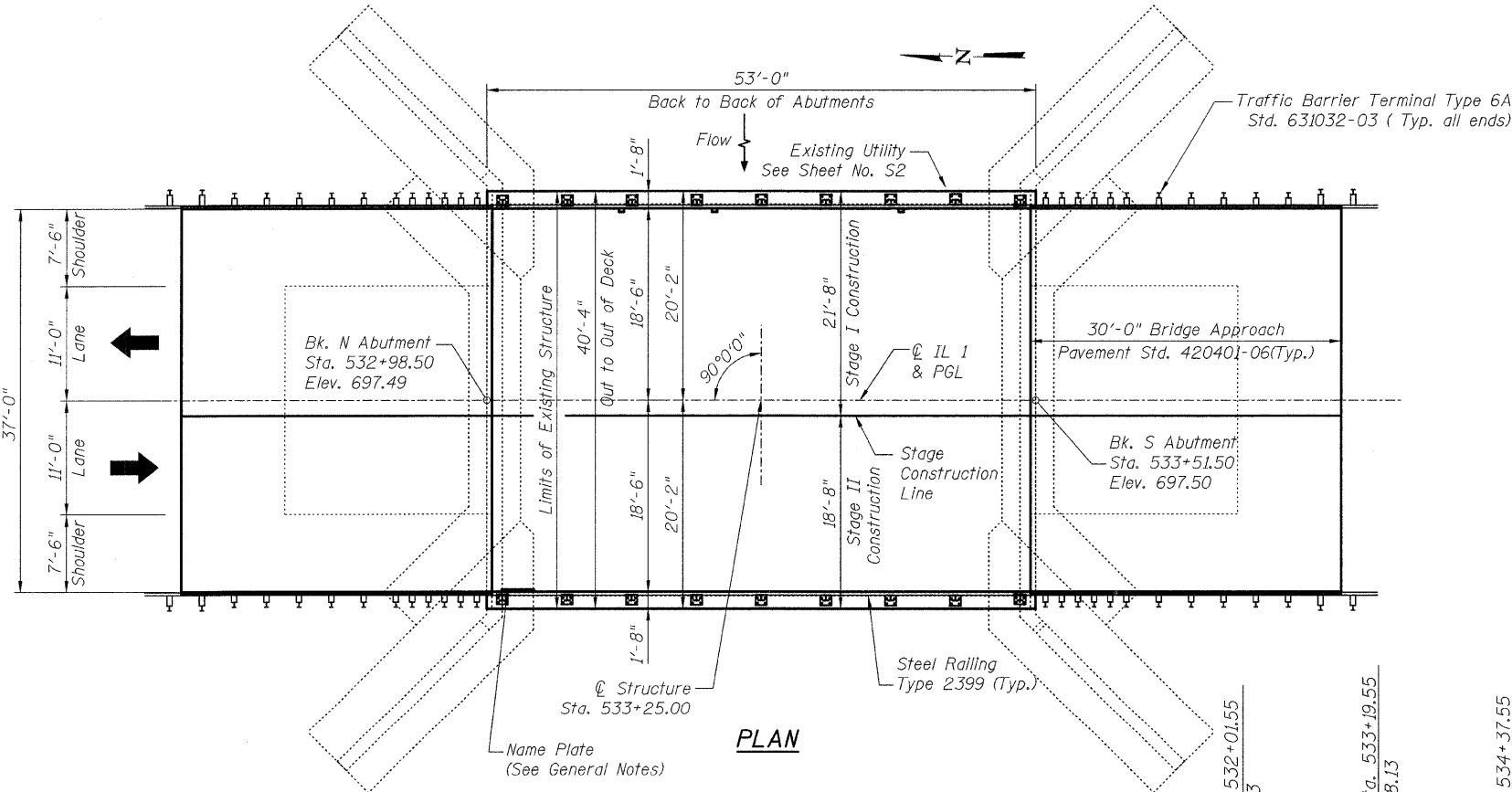
- S1. General Plan & Elevation
- S2. Stage Construction Details
- S3. Temporary Concrete Barrier
- S4. Abutment Repairs
- S5. Beam Repairs
- S6. Deck Removal and Repairs
- S7. Superstructure Details
- S8. Steel Railing, Type 2399

SCOPE OF WORK

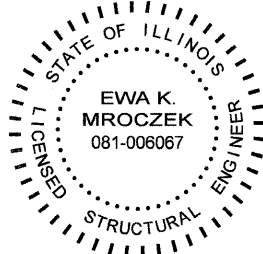
- 1. Hydroscarify slab surface.
- 2. Place Latex Concrete Overlay.
- 3. Sawcut Groove Deck Surface.
- 4. Concrete Repairs to the beams and substructure.
- 5. Concrete Railing Removal and Replacement with Steel Railing.
- 6. Protective Coat on Deck and Curb.
- 7. Bridge Approach Pavement Removal and Replacement (See Roadway Sheets for Details).



ELEVATION



PLAN

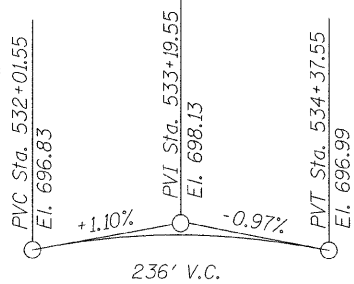


DATE: 1/13/2009
SEAL EXPIRES: 11/30/2010

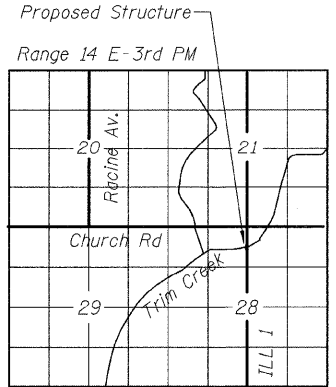
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	6.7
Concrete Superstructure	Cu.Yd.	5.8
Bridge Deck Grooving	Sq.Yd.	214
Protective Coat	Sq.Yd.	248
Reinforcement Bars, Epoxy Coated	Pound	960
Steel Railing, Type 2399	Foot	106
* Plug Existing Drains	Each	4
* Bridge Deck Latex Concrete Overlay, 2 1/4 inches	Sq.Yd.	218
* Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq.Ft.	284
* Bridge Deck Hydro-Scarification 1/2"	Sq.Yd.	218
* Deck Drain Extensions	Each	8

* Special Provision



PROFILE GRADE



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL 1 OVER TRIM CREEK
STA. 533+25
S.N. 099-0079

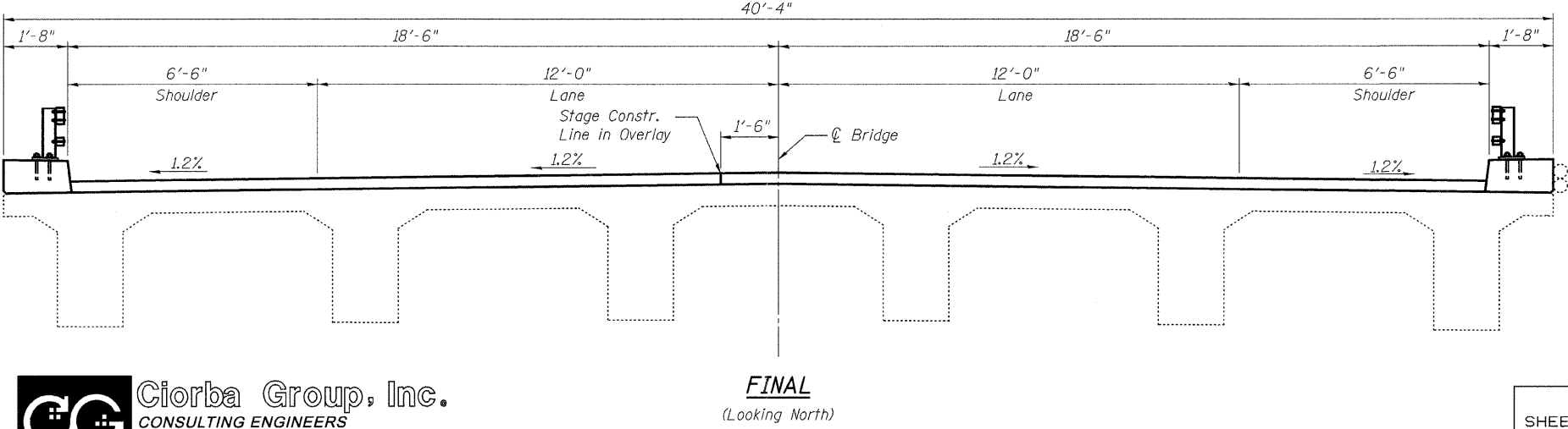
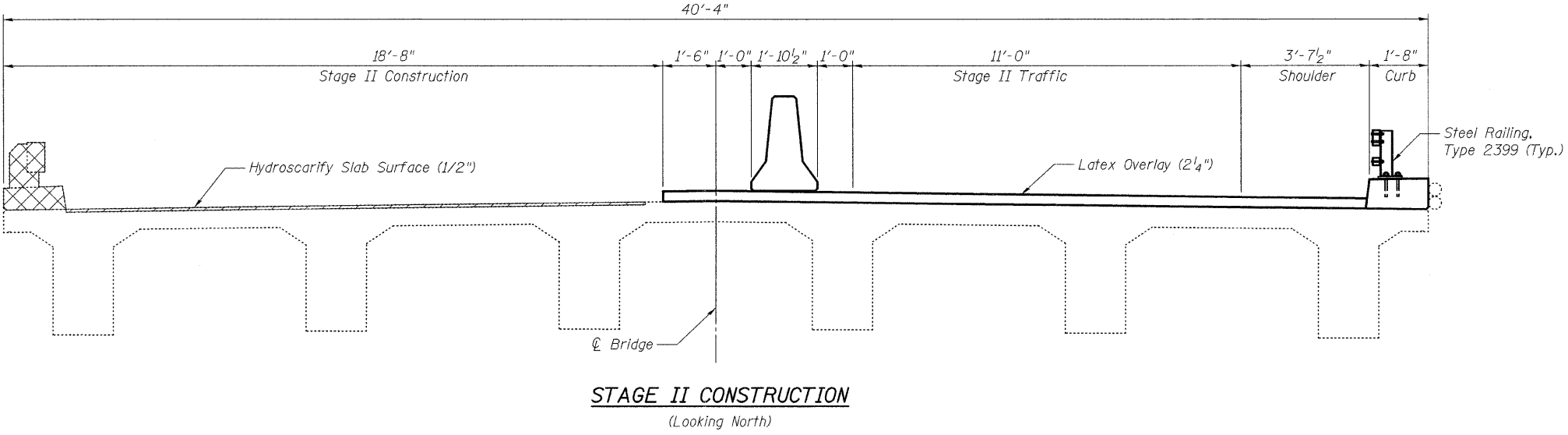
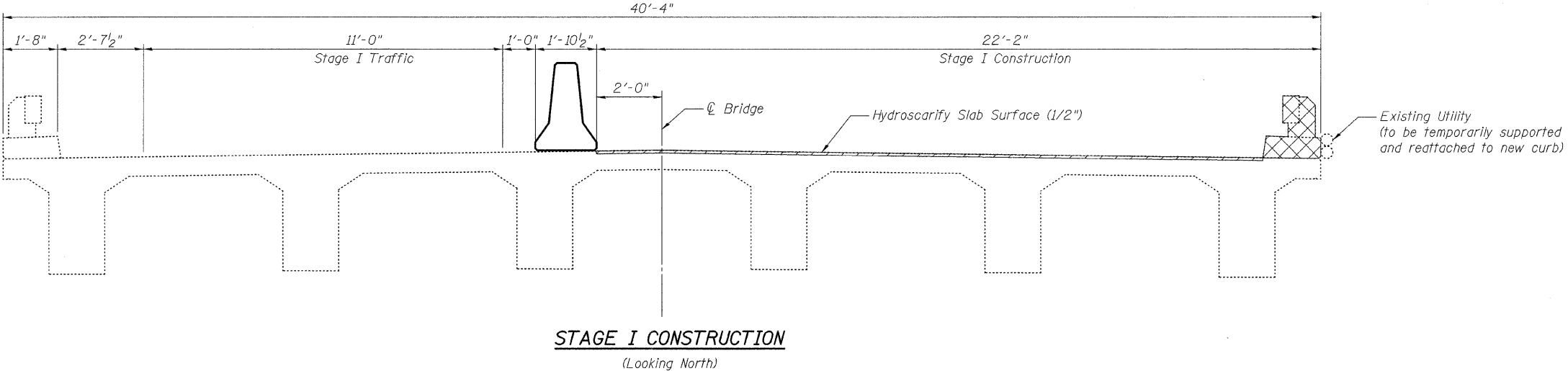
SHEET NO. S1 S8 SHEETS	F.A.P. RTE. 332	SECTION 8 R-B-I-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 16
	CONTRACT NO. 60D81				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

DESIGNED	B. Sauter
CHECKED	E. Mroczek
DRAWN	R. Danley
CHECKED	B. Sauter

Giorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60658
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@giorba.com

1/13/2009 rddnlay

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LEGEND:

- Hydroscarify Slab Surface
- Concrete Removal, See Sheet S6

NOTE:

1. See Sheet S3 for Temporary Concrete Barrier Details.
2. The Contractor is ultimately responsible for means and methods to ensure the complete stability of the structural members during construction.
3. Cost of temporary support and reattachment of utility is included with Concrete Superstructure pay item.

STAGE CONSTRUCTION DETAILS
IL 1 OVER TRIM CREEK
STA. 533+25
S.N. 099-0079

DESIGNED	B. Sauter
CHECKED	E. Mroczek
DRAWN	R. Danley
CHECKED	B. Sauter

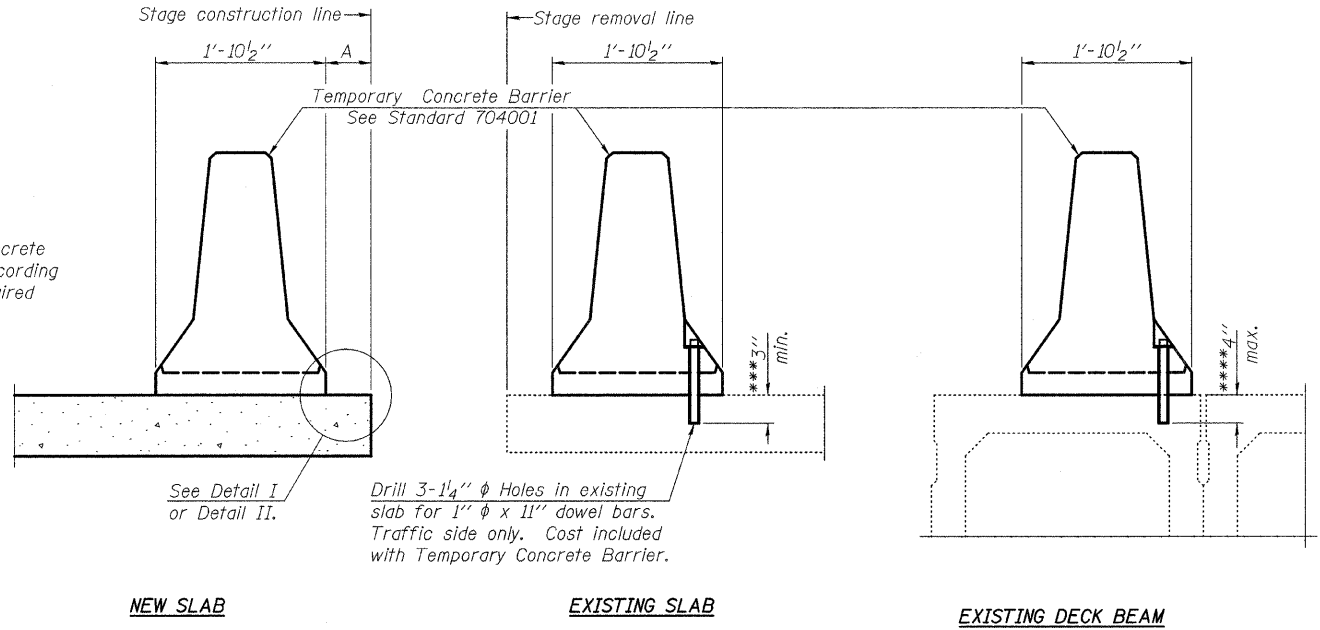
Giorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4005 Fax 773.775.4014 Email chicago@giorba.com

SHEET NO. S2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	332	8 R-B-I-2	WILL	28	17
S8 SHEETS			CONTRACT NO. 60D81		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

1/13/2009 rdanley m:\proj\3329\3329_26\design\structural\Need\ahh\3329_26_02 Stage Construction.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

NOTES

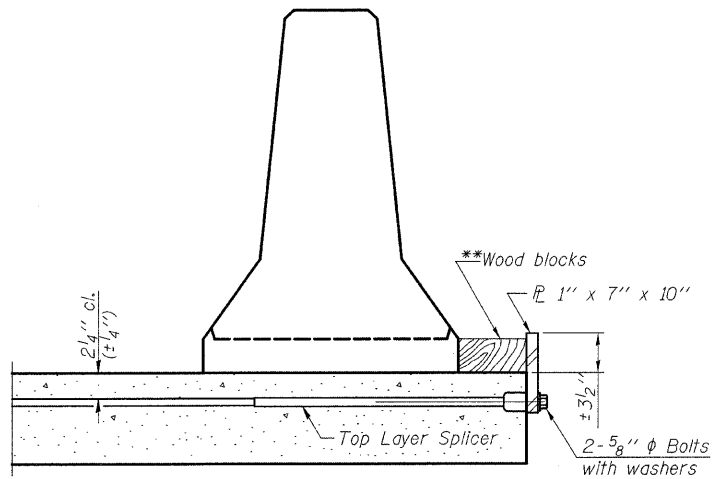
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place Inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

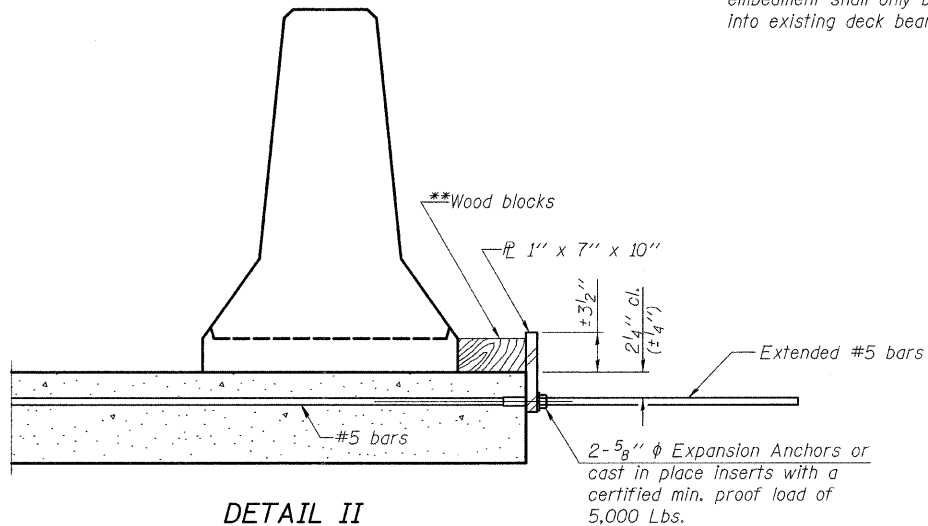
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

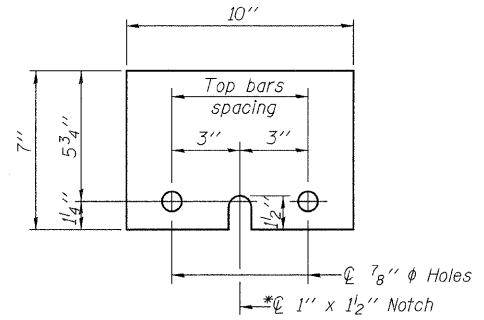
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{P} 1" x 7" x 10"

* Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
IL 1 OVER TRIM CREEK
STA. 533+25
S.N. 099-0079

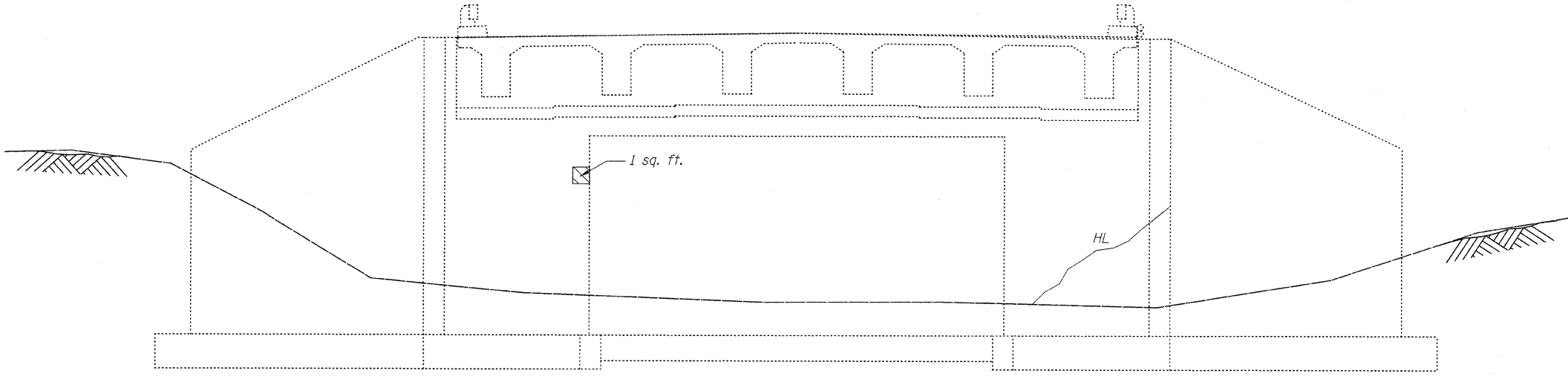
DESIGNED	B. Sauter
CHECKED	E. Mroczek
DRAWN	R. Danley
CHECKED	B. Sauter



Giorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@giorba.com

SHEET NO. S3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	332	8 R-B-I-2	WILL	28	18
S8 SHEETS			CONTRACT NO. 60D81		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

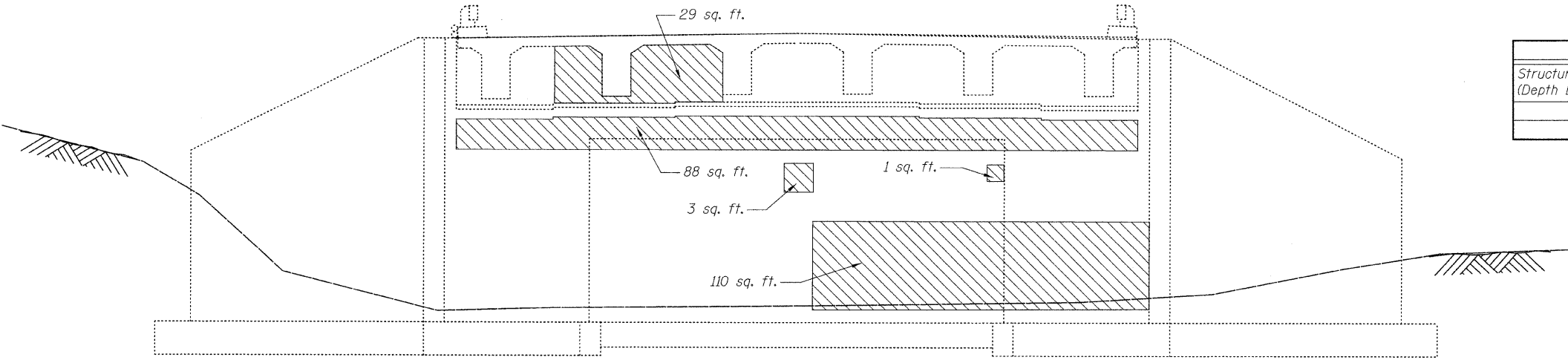
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



NORTH ABUTMENT ELEVATION
LOOKING NORTH

NOTE:

Repairs of the existing abutments shall include but not be limited to the areas shown. The actual areas to be determined by the Engineer at the time of construction.



SOUTH ABUTMENT ELEVATION
LOOKING SOUTH

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	232

ABUTMENT REPAIRS
IL 1 OVER TRIM CREEK
STA. 533+25
S.N. 099-0079

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Hairline Crack

DESIGNED	B. Sauter
CHECKED	E. Mroczek
DRAWN	R. Danley
CHECKED	B. Sauter

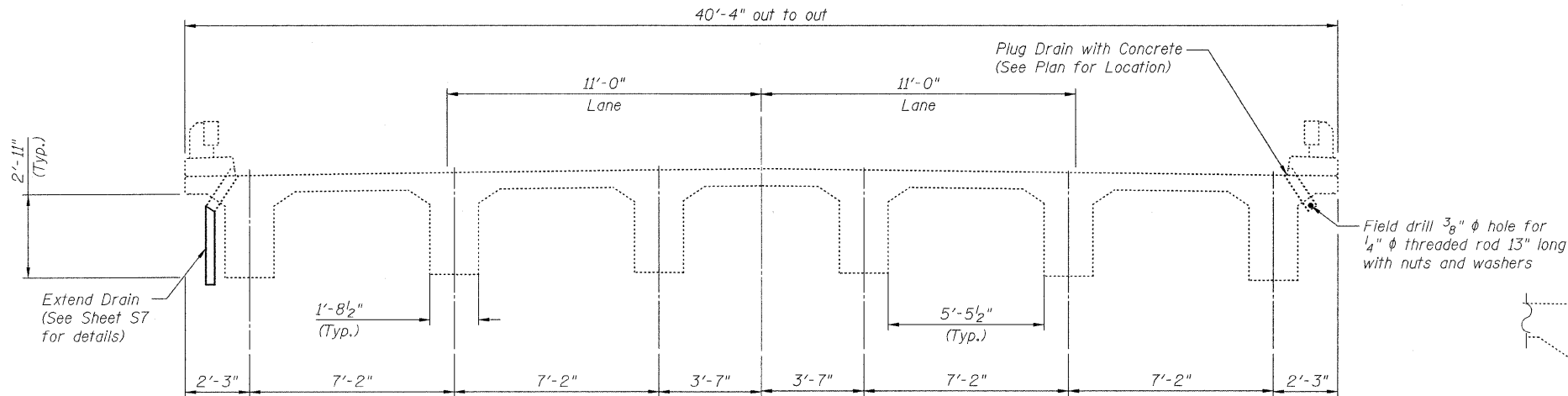
Giorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.776.4009 Fax 773.776.4014 Email chicago@giorba.com

SHEET NO. S4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	332	8 R-B-I-2	WILL	28	19
S8 SHEETS			CONTRACT NO. 60D81		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

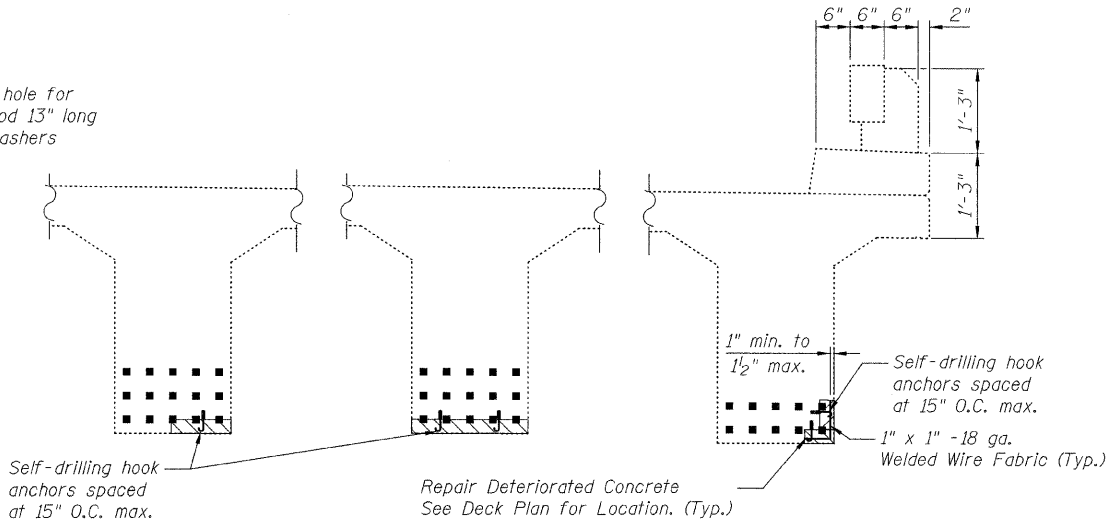
1/13/2009

m:\proj\3329\3329_26\design\structural\cod\shs\3329_26_04_Abutment_Repairs.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CROSS-SECTION



SECTION C-C SECTION B-B SECTION A-A

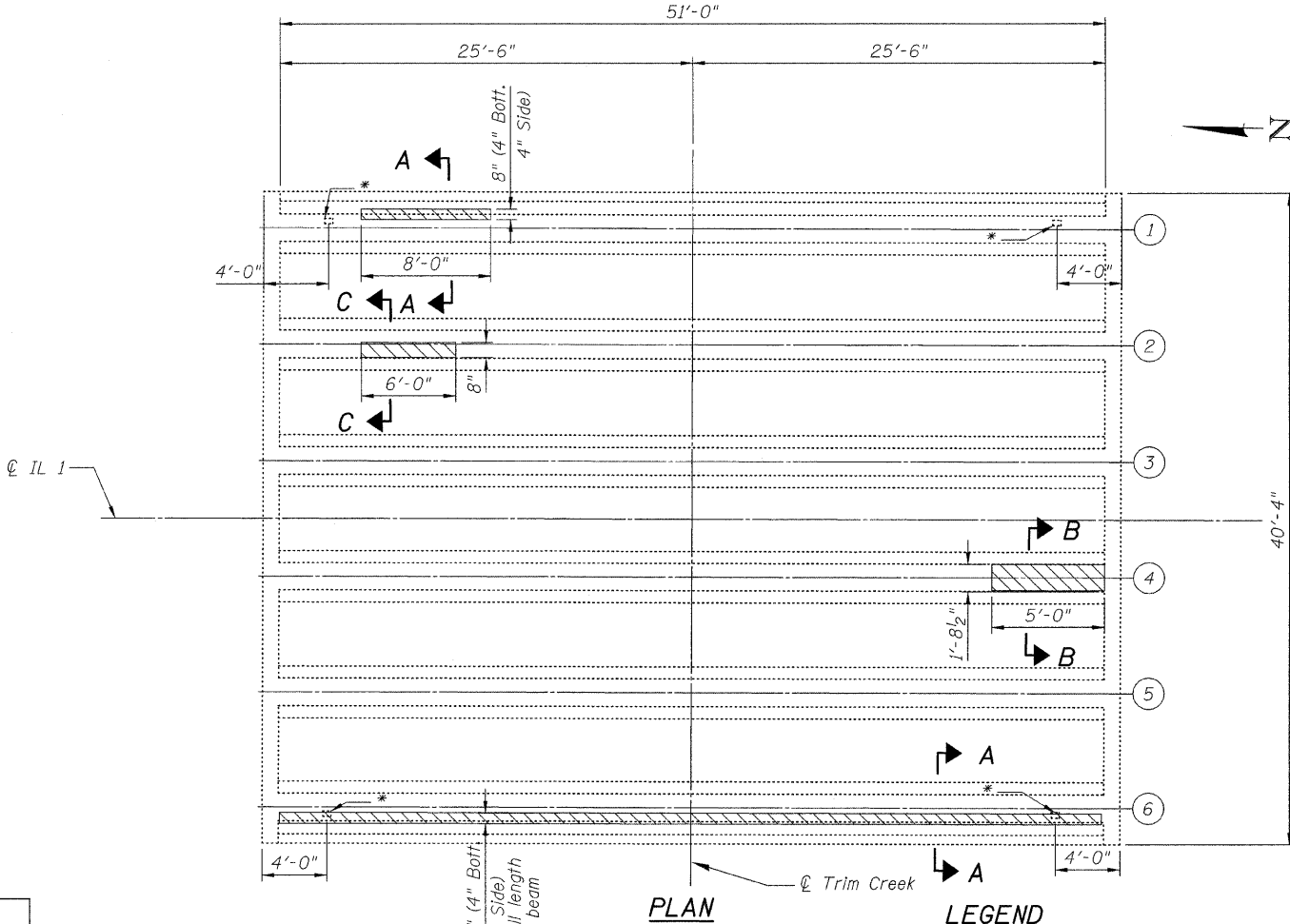
BEAM REPAIR

NOTES:

- Repairs shall include but not be limited to the areas shown. The actual areas to be determined by the Engineer at the time of construction.
- The repair concrete shall be securely anchored to the existing beam using self drilling anchors. Cost included with Structural Repair of Concrete (Depth Equal to or Less than 5 Inches).

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	52
Plug Existing Drains	Each	4



PLAN LEGEND

Concrete Beam to be Repaired

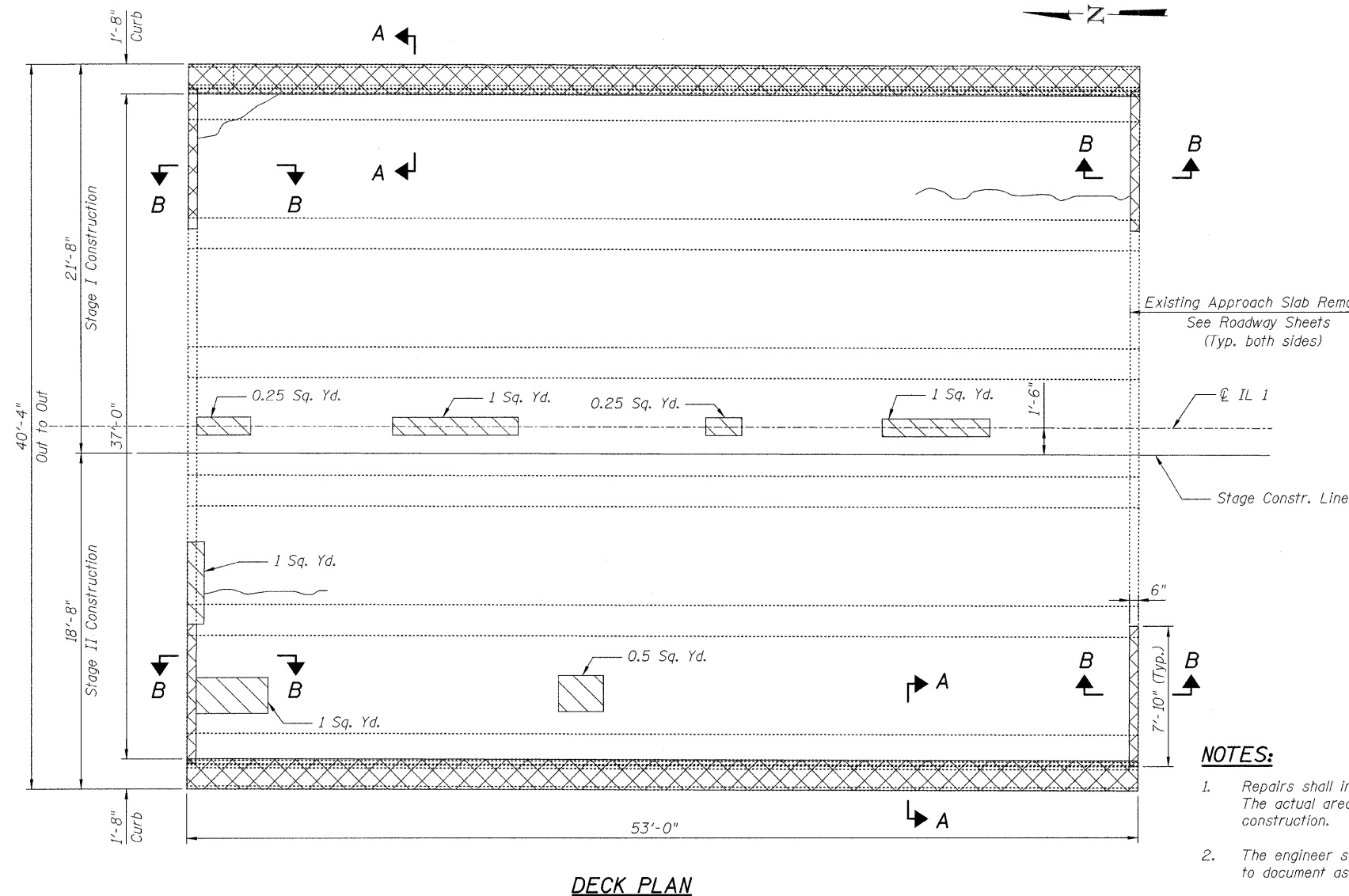
DESIGNED	B. Sauter
CHECKED	E. Mroczek
DRAWN	R. Danley
CHECKED	B. Sauter

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

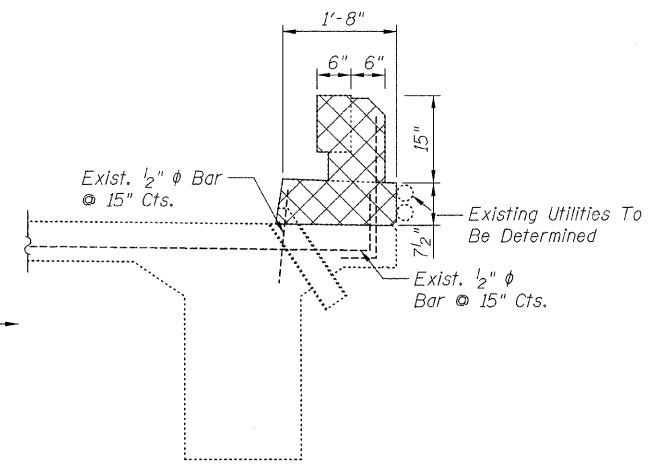
BEAM REPAIRS
IL 1 OVER TRIM CREEK
STA. 533+25
S.N. 099-0079

SHEET NO. S5 S8 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	332	8 R-B-I-2	WILL	28	20
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 60D81		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

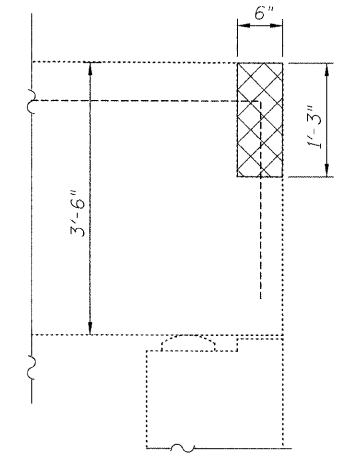


DECK PLAN



SECTION A-A

Existing rebars to be cleaned, straightened and incorporated into new construction



SECTION B-B

Existing rebars to be cleaned, straightened and incorporated into new construction

NOTES:

- Repairs shall include but not be limited to the areas shown. The actual areas to be determined by engineer at the time of construction.
- The engineer shall record the actual deck repair areas in order to document as-built conditions for the future reference.
- The cost of partial depth deck repairs is included with Bridge Deck Hydro-Scarification 1/2" and Bridge Deck Latex Concrete Overlay.
- For parapet reconstruction see sheet S7.

LEGEND

- Partial Depth Repairs (For Information Only)
- Concrete Removal
- Hairline Crack

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	6.7
Bridge Deck Hydro-Scarification 1/2"	Sq. Yd.	218

DECK REMOVAL AND REPAIRS
IL 1 OVER TRIM CREEK
STA. 533+25
S.N. 099-0079

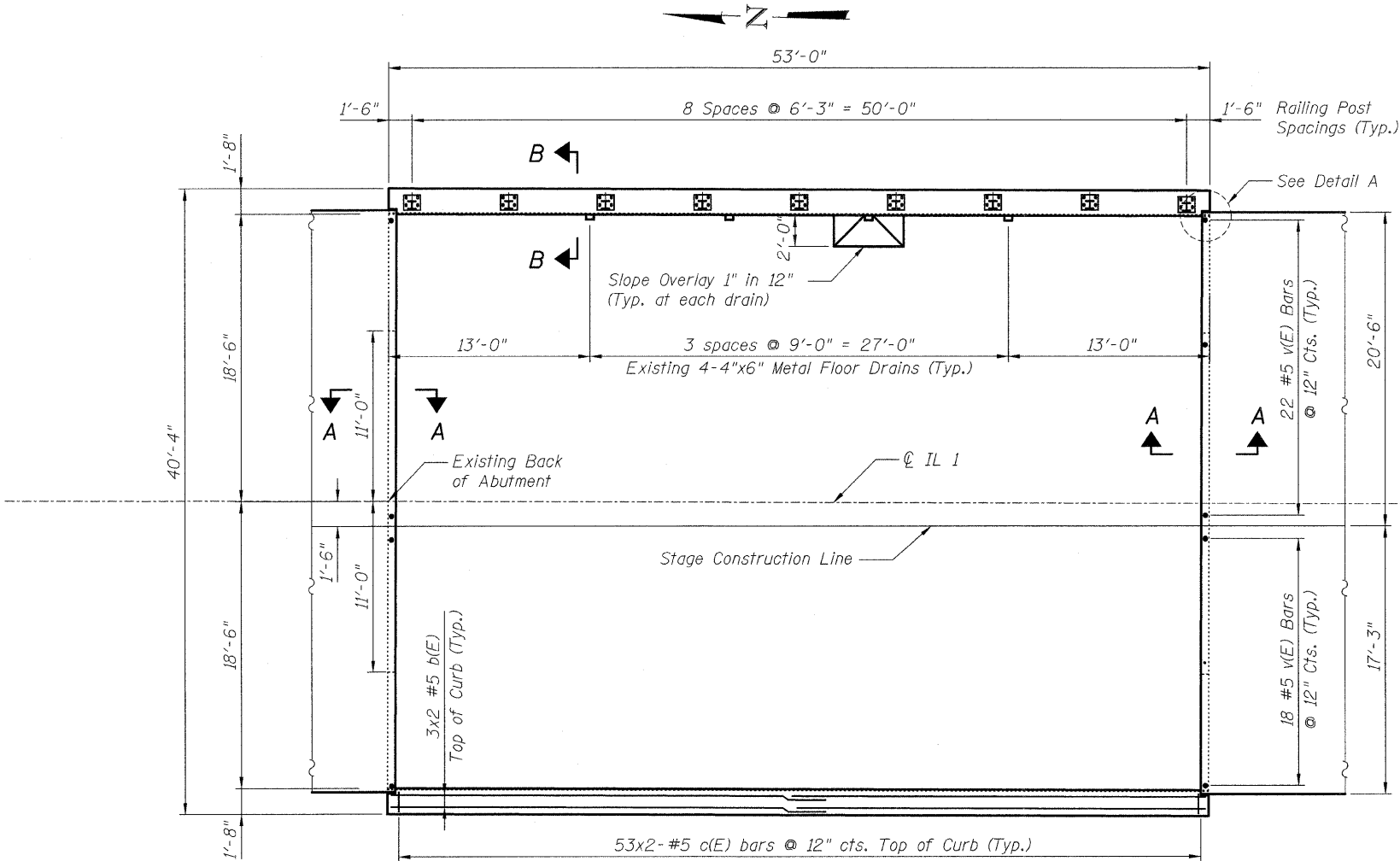
SHEET NO. S6 S8 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	332	8 R-B-I-2	WILL	28	21
			CONTRACT NO. 60D81		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

DESIGNED	B. Sauter
CHECKED	E. Mroczek
DRAWN	R. Danley
CHECKED	B. Sauter

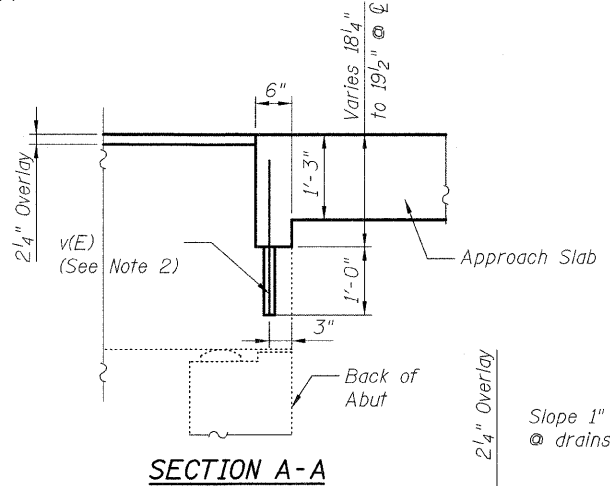
Giorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4008 Fax 773.775.4014 Email chicago@giorba.com

1/13/2009 rdenley m:\proj\3329\3329_26\design\structural\road\sh\3329_26_06 Deck_Repairs.sht

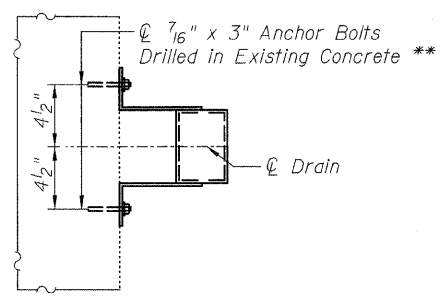
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



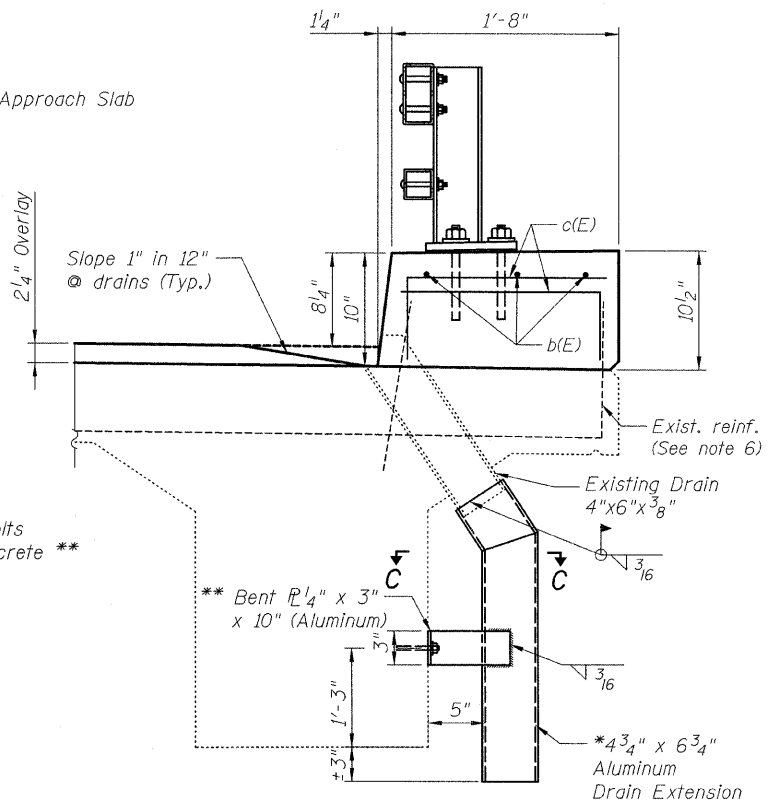
PLAN



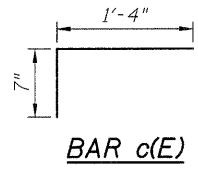
SECTION A-A



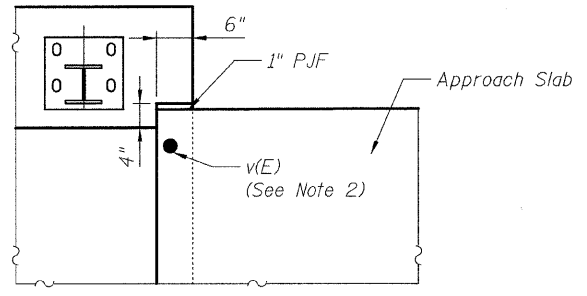
SECTION C-C



SECTION B-B



BAR c(E)



DETAIL A

NOTES:

1. Bars indicated thus 2x3-#5 etc. indicates 2 lines of bars with 3 lengths per line.
2. Drill and grout v(E) bars 12" min. in accordance with Article 584 of the Standard Specifications. Cost included with Concrete Superstructure.
3. For steel railing details see sheet S8.
4. Splice length for #5 bar is 2'-2".
5. Protective Coat to be applied to top and roadway face of curb and over the overlay.
6. Exist. reinforcement protruding from the deck to remain in place. The existing reinforcement shall be sandblasted clean, straightened and incorporated into the new construction. In case rebars are damaged, mechanical bar splicers shall be used or drill and grout #5 hooked anchor bolts. The cost of mechanical splicers and anchors is included with Concrete Superstructure.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b(E)	12	#5	27'-6"	—
c(E)	212	#5	1'-11"	┌
v(E)	80	#5	2'-4"	—
Concrete Superstructure			Cu.Yd.	5.8
Reinforcement Bars, Epoxy Coated			Lb.	960
Bridge Deck Concrete Latex Overlay, 2 1/4 inches			Sq.Yd.	218
Bridge Deck Grooving			Sq.Yd.	218
Protective Coat			Sq.Yd.	248
Deck Drain Extensions			Each	8

* 3/16" Aluminum Sheets (Welded)
ASTM: B209 alloy 6061-T6
** Cost included in Deck Drain Extension

SUPERSTRUCTURE DETAILS
IL 1 OVER TRIM CREEK
STA. 533+25
S.N. 099-0079

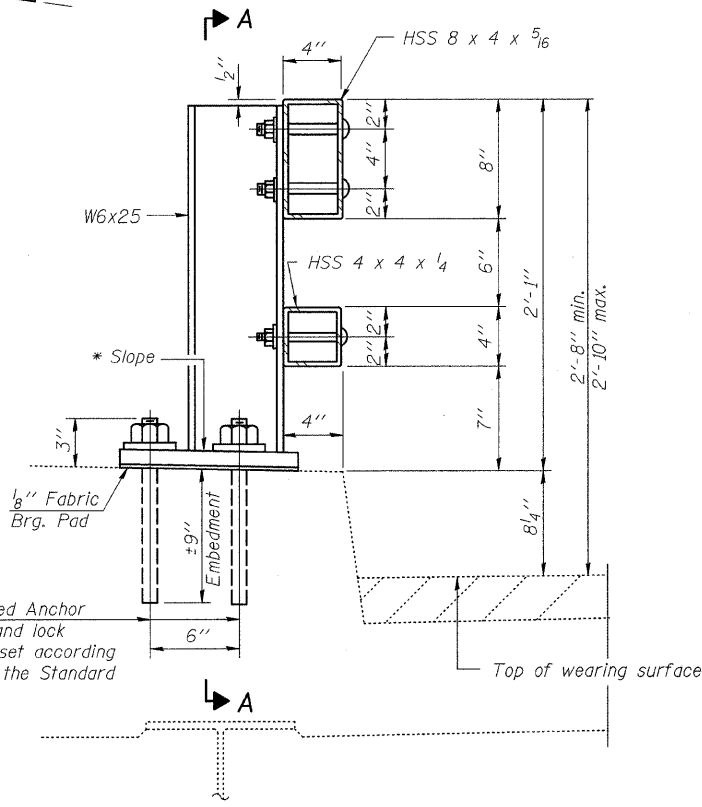
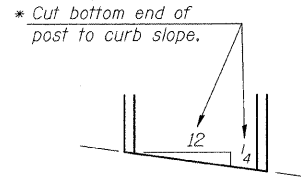
DESIGNED B. Sauter
CHECKED E. Mroczek
DRAWN R. Danley
CHECKED B. Sauter

Giorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@giorba.com

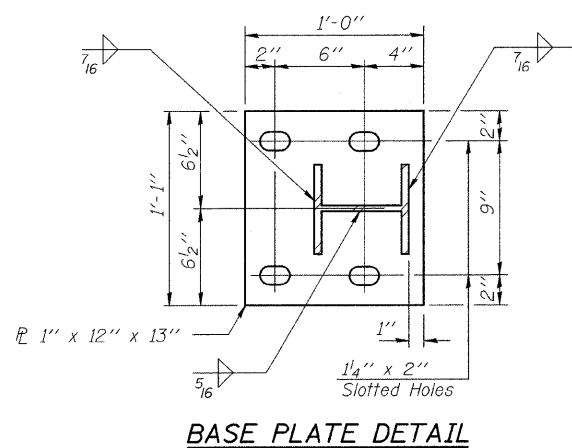
SHEET NO. S7 S8 SHEETS	F.A.P. RTE. 332	SECTION 8 R-B-I-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 22
	CONTRACT NO. 60D81				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

1/13/2009 rdbnley ns:\proj\3329\3329_26\design\structural\3329_26-07_Superstructure_Details.sht

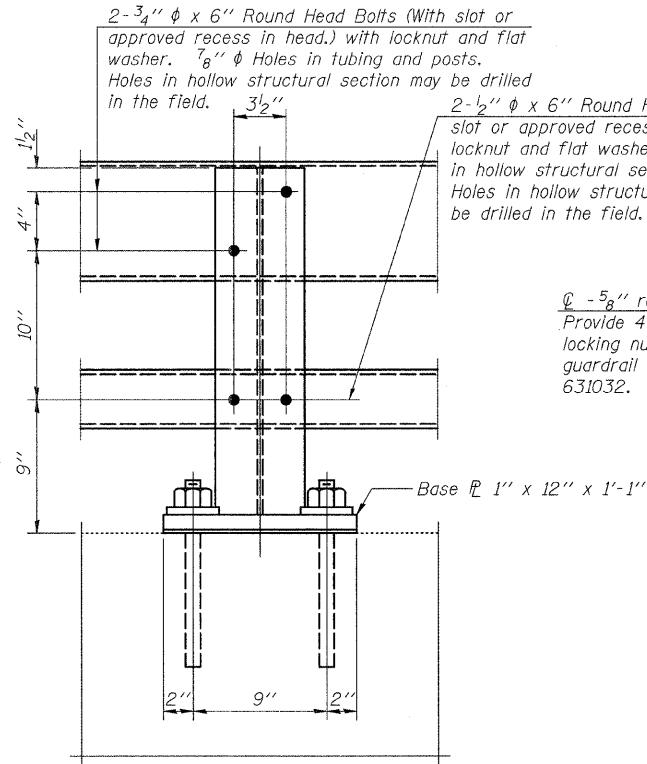
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



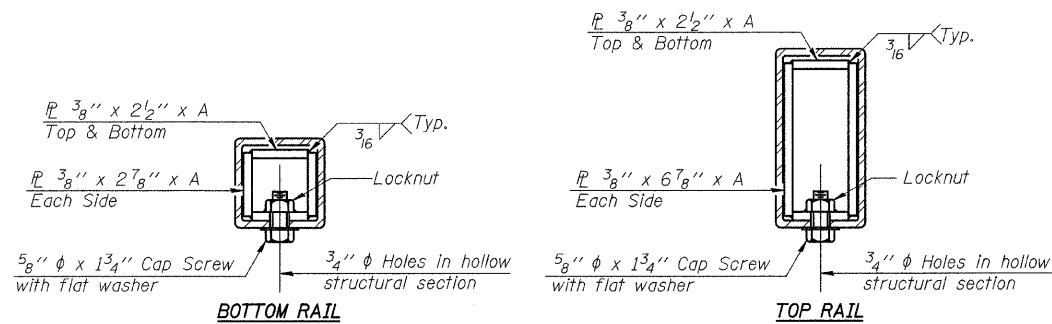
SECTION AT RAIL POST



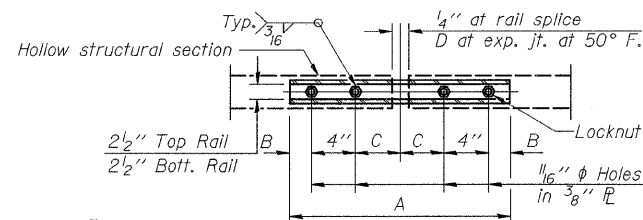
BASE PLATE DETAIL



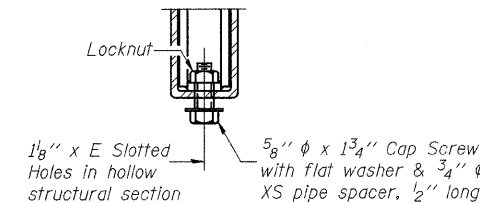
SECTION A-A



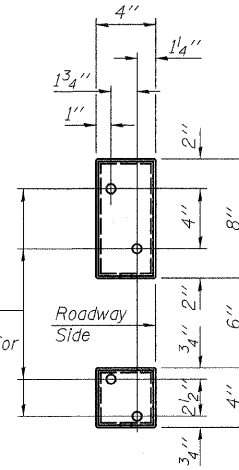
SECTIONS AT RAIL SPLICE



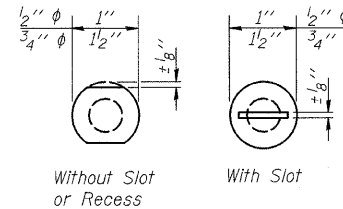
PLAN-BOTT. SPLICE TYPICAL



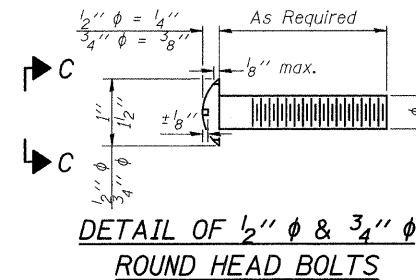
RAIL SPLICE CONNECTION AT EXPANSION JT.



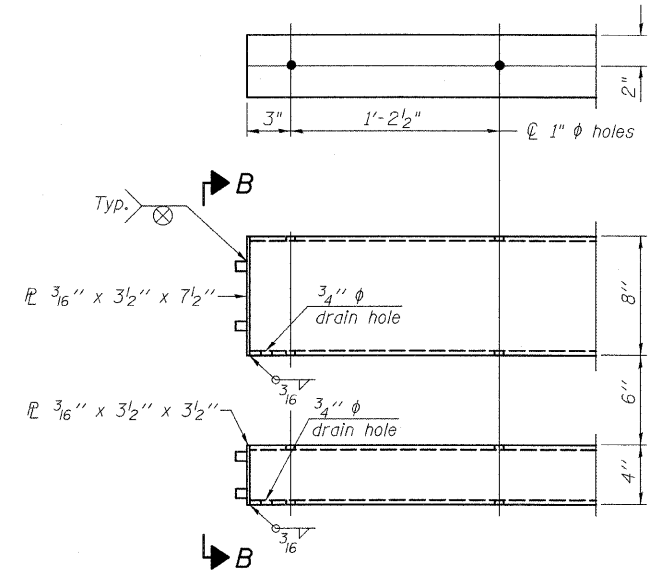
VIEW B-B



VIEW C-C



DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS



END OF RAIL DETAILS

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 1/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

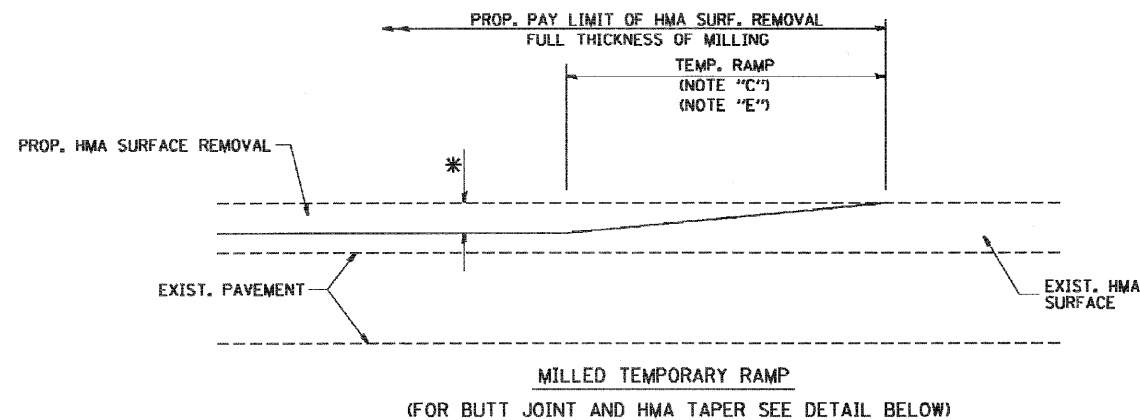
Item	Unit	Quantity
Steel Railing, Type 2399	Foot	106

STEEL RAILING, TYPE 2399
IL 1 OVER TRIM CREEK
STA. 533+25
S.N. 099-0079

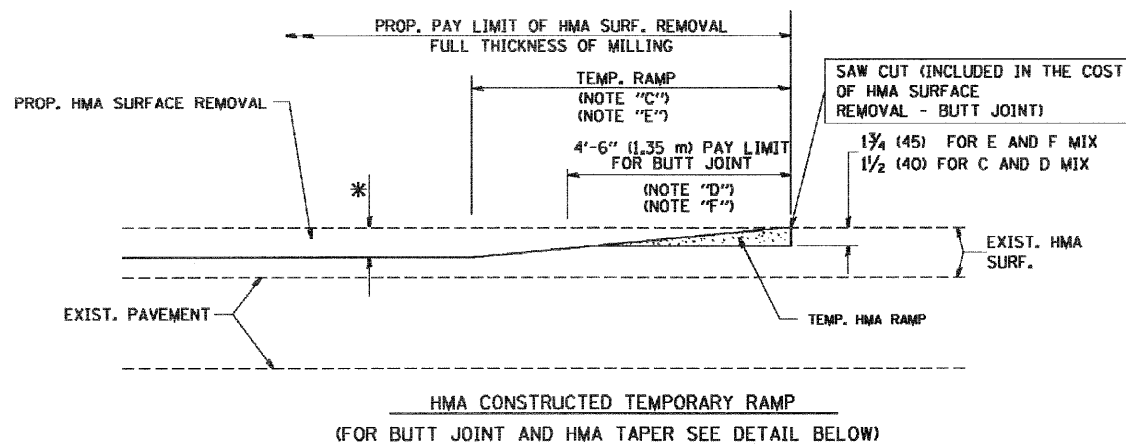
DESIGNED	B. Sauter
CHECKED	E. Mroczek
DRAWN	R. Danley
CHECKED	B. Sauter

Giorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@giorba.com

SHEET NO. S8	F.A.P. RTE. 332	SECTION 8 R-B-I-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 23
S8 SHEETS			CONTRACT NO. 60D81		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT	

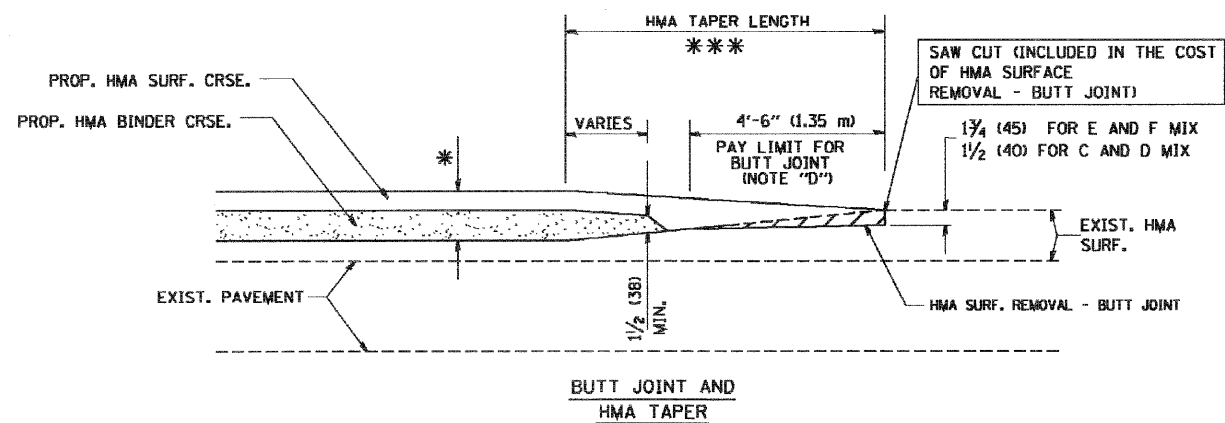


OPTION 1

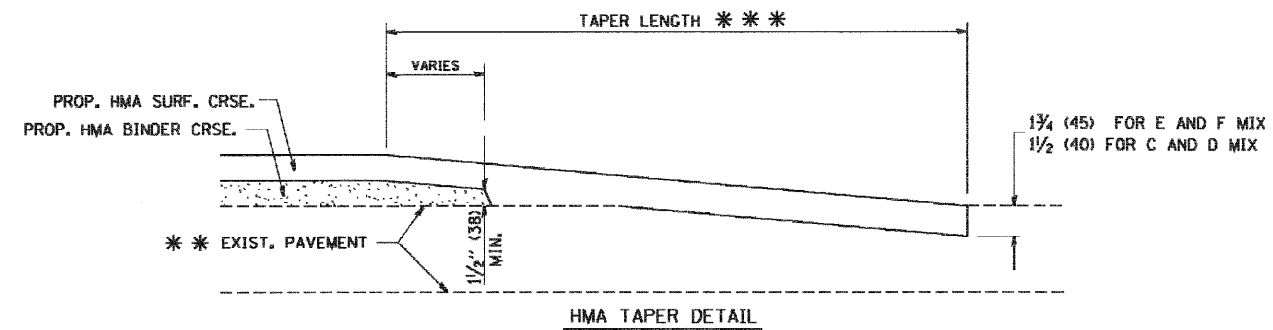
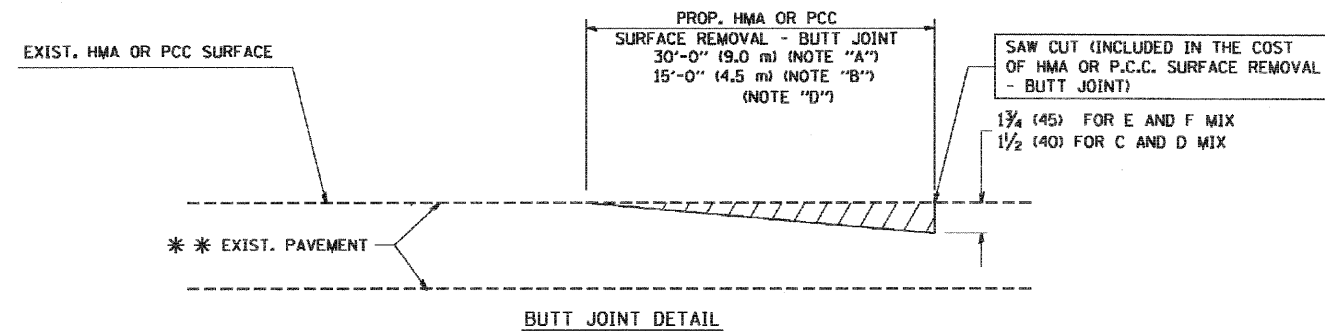


OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



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.

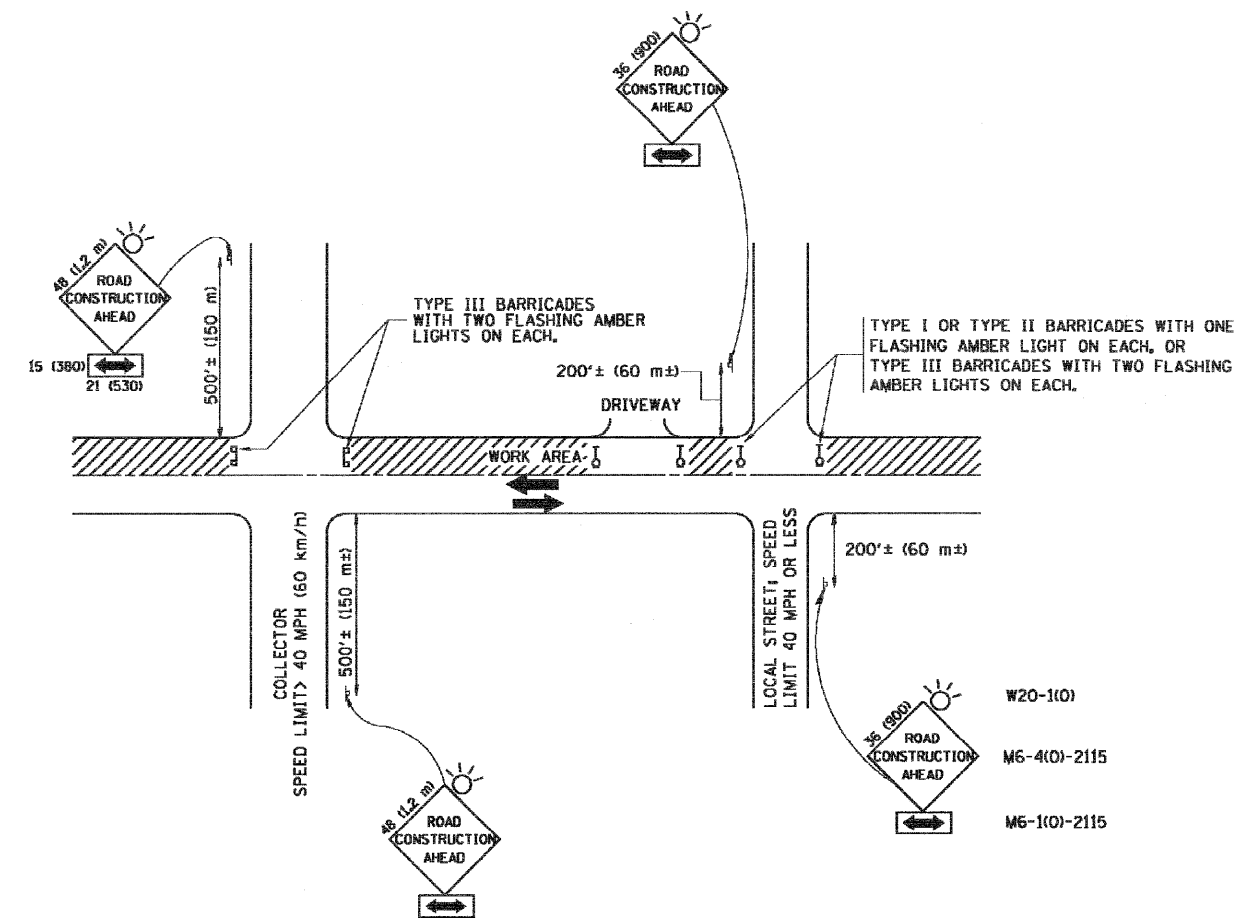
FILE NAME = W:\vhs\std\22x34\bd32.dgn	USER NAME = goglionobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 56.0000" / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2000	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	8 R-B-I-2	WILL	28	24
BD400-05 BD32		CONTRACT NO. 60D81		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



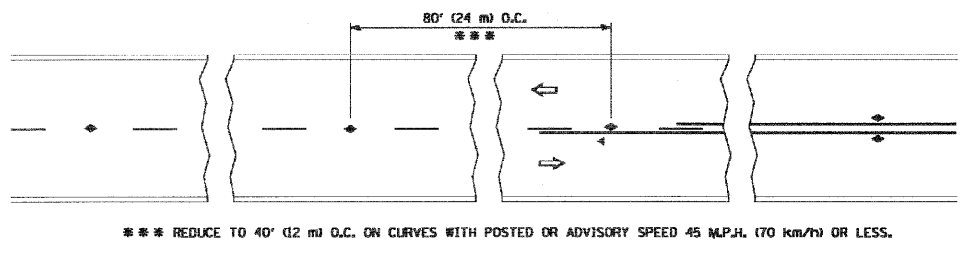
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

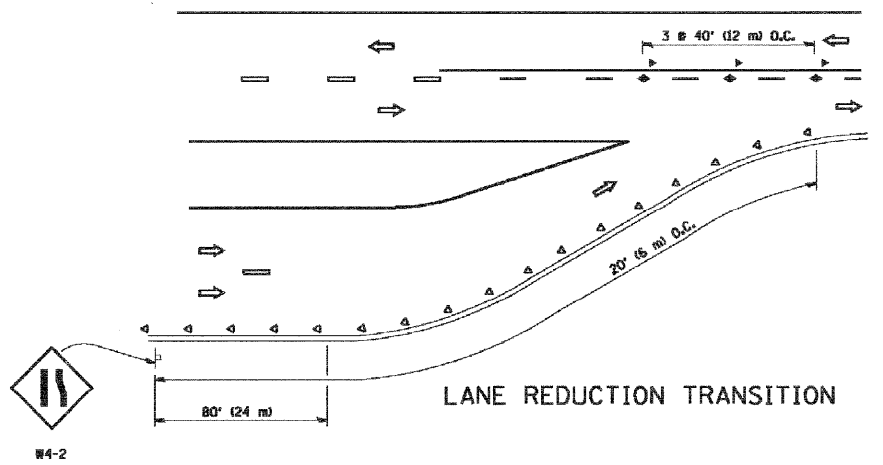
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE 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.
 - 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. 70150L, 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.

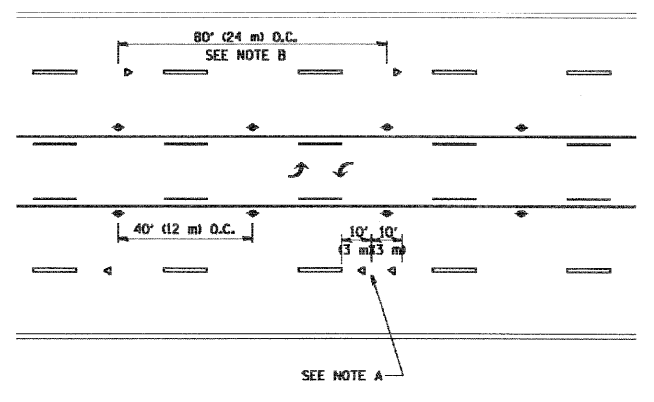
FILE NAME =	USER NAME = gqgl10n0bt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
W:\notes\std\22x34\td18.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	332	8 R-B-1-2	WILL	28	25
		PLOT SCALE = 50.000' / IN.	REVISED - A. HOUSEH 10-15-96		TO STA.			TC-10		CONTRACT NO. 60081		
		PLOT DATE = 1/4/2000	REVISED - T. RANMACHER 01-06-00						FEB. ROAD DIST. NO. 1 ILLINOIS FEB. AID PROJECT			



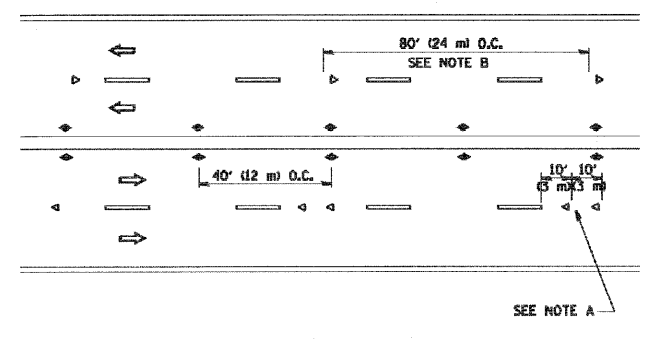
TWO-LANE/TWO-WAY



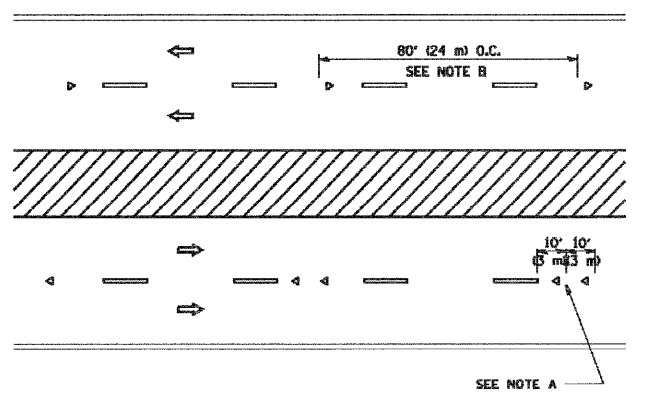
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

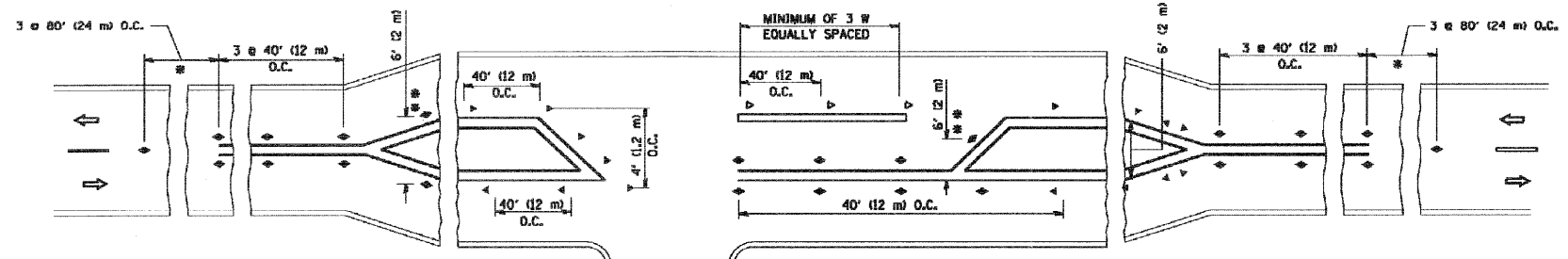
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (R/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

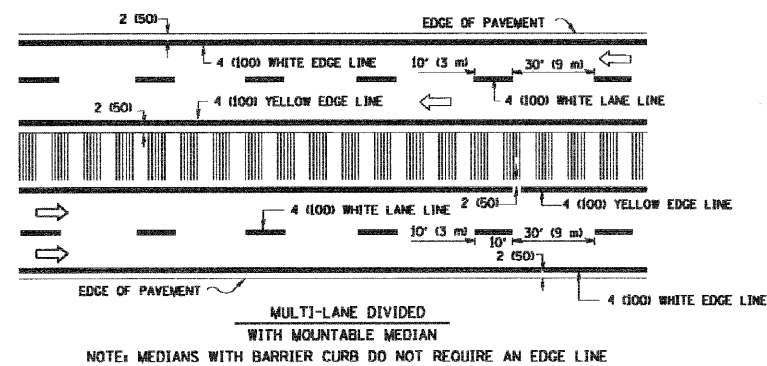
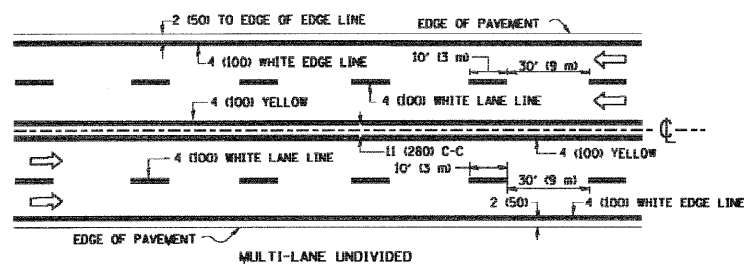
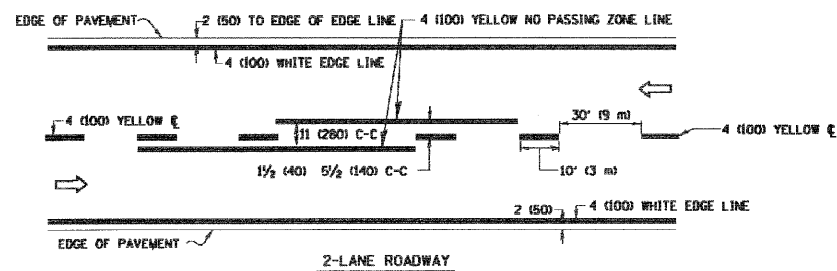
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



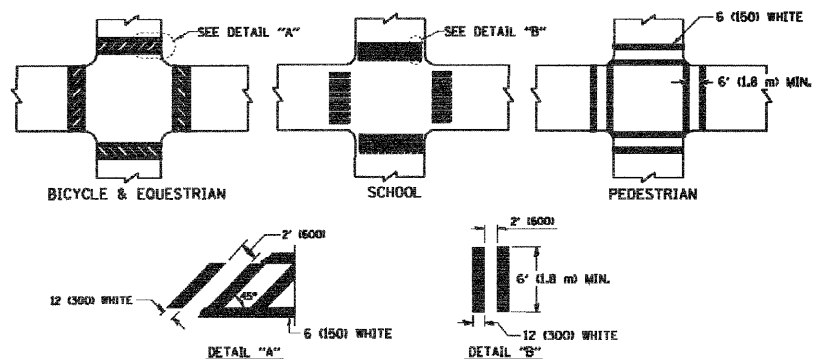
LEFT TURN

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

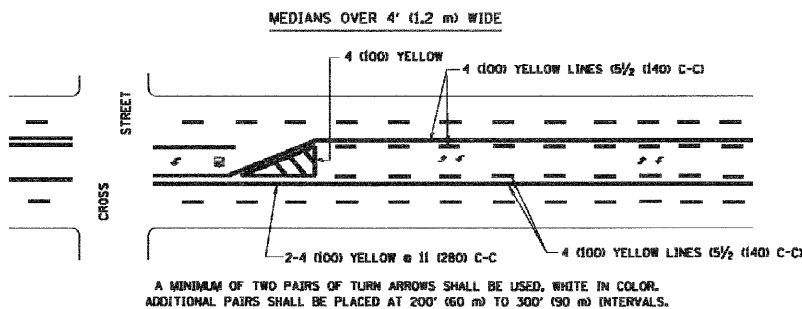
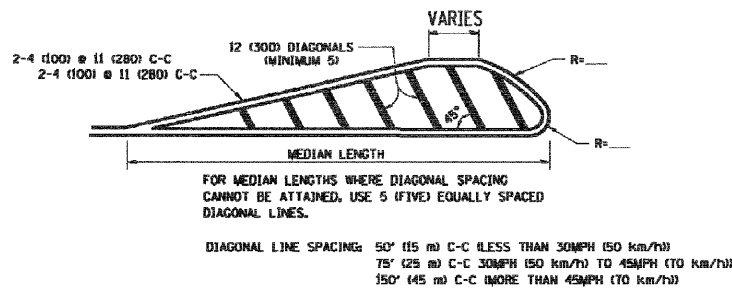
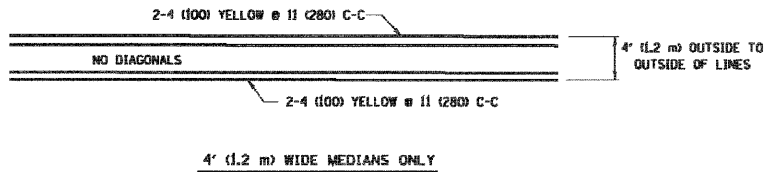
FILE NAME = W:\dotstsd\22x34\td11.dgn	USER NAME = goglionobt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS		F.A.P. RTE. 332	SECTION 8 R-B-1-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 26	
	PLOT SCALE = 5/8" = 1' / IN.	DRAWN -	REVISED - T. RAMMACHER 03-12-99		RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11		CONTRACT NO. 60081			
	PLOT DATE = 1/4/2000	CHECKED -	REVISED - T. RAMMACHER 01-05-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -									



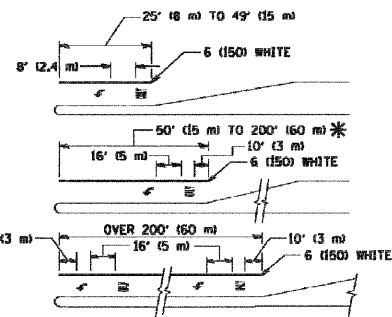
TYPICAL LANE AND EDGE LINE MARKING



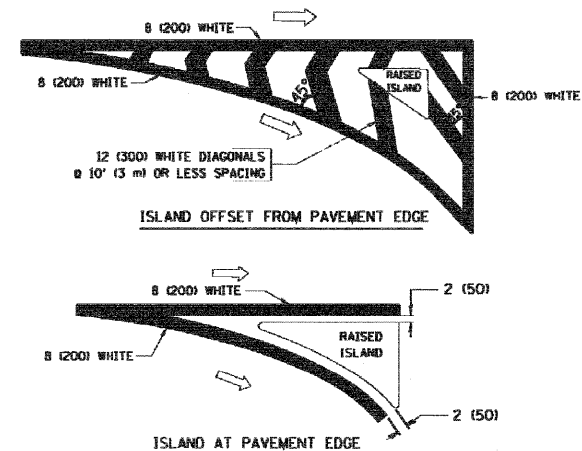
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



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 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (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 @ 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; 5/2 (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 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) 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 CROSSWALK CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 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 @ 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; "R" 15' (4.5 m) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=94.0 SQ. FT. (8.6 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 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.

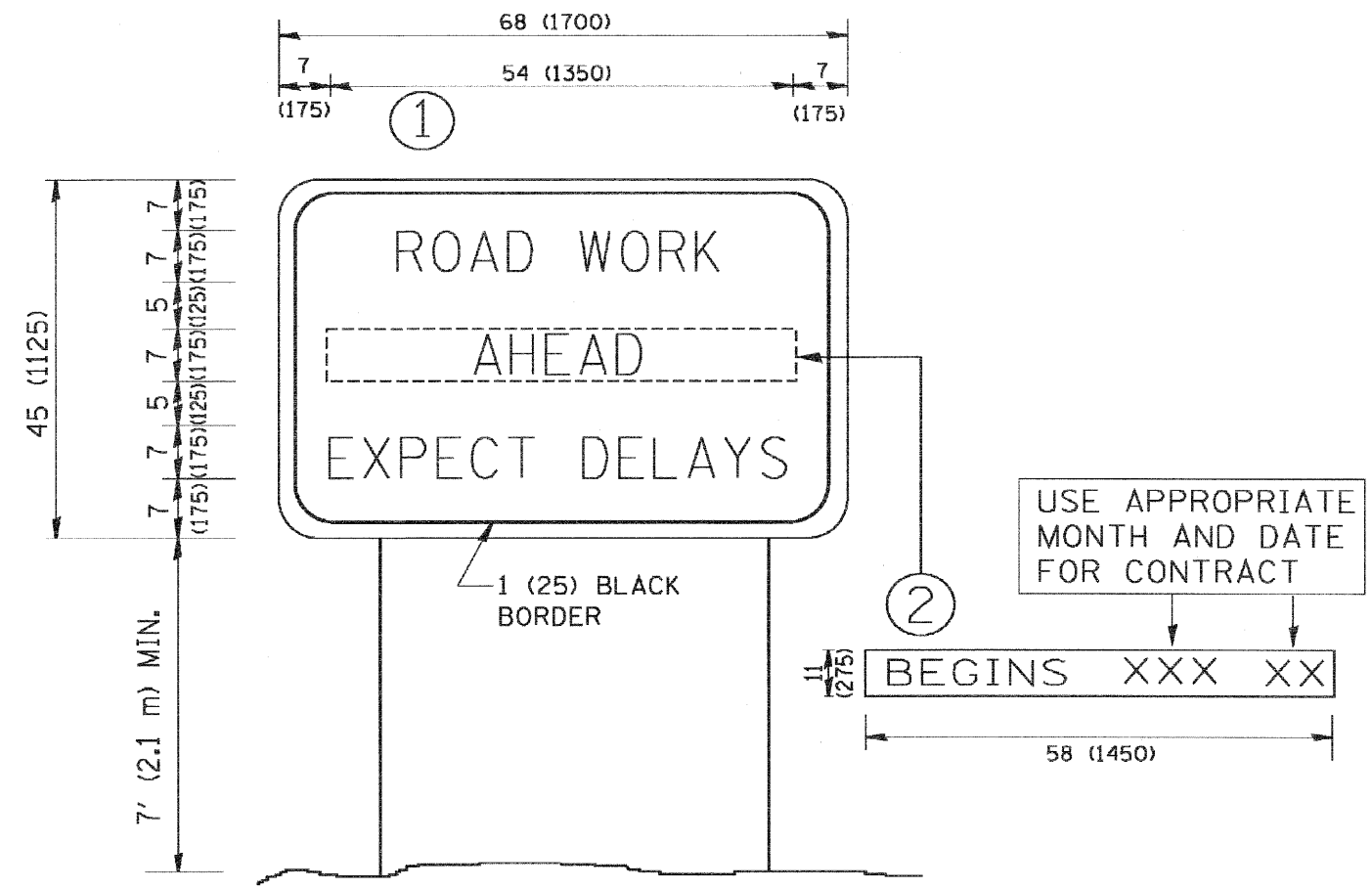
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\data\std\22x34\1\1\13.dgn	USER NAME = goglionobt	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
		DRAWN -	REVISED - A. HOUSEH 10-09-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2000	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		332	8 R-B-1-2	WILL	28	27
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	

TC-13		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
CONTRACT NO. 60081				



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.

FILE NAME = W:\distsd\22x34\to22.dgn	USER NAME = goglionobt	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.P. RTE. 332	SECTION 8 R-B-I-2	COUNTY WILL	TOTAL SHEETS 28	SHEET NO. 28
PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
PLOT DATE = 1/4/2000	DATE -	REVISED - C. JUCIUS 01-31-07						CONTRACT NO. 60081		