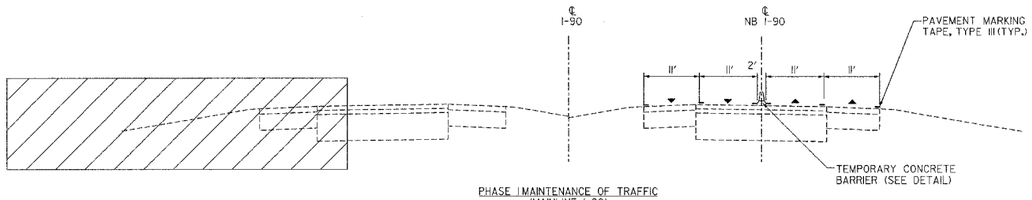
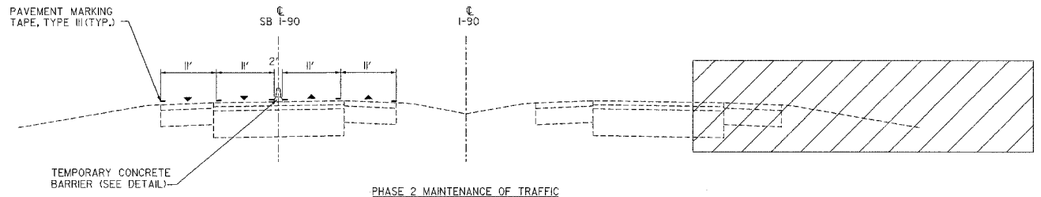
CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	101
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

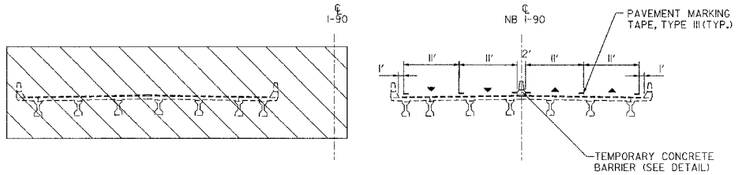
MAINTENANCE OF TRAFFIC DETAILS– I–90



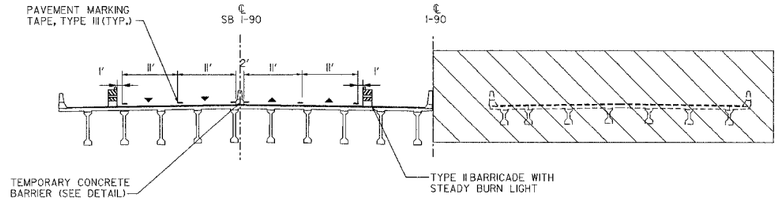
PHASE I MAINTENANCE OF TRAFFIC
(MAINLINE I-90)
(INSTALL OUTER CONNECTOR AND INNER LOOP RAMP TERMINALS AND AUXILIARY LANE)



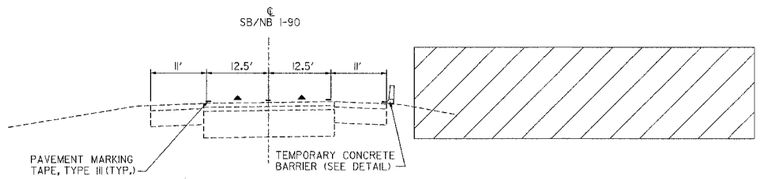
PHASE 2 MAINTENANCE OF TRAFFIC
(MAINLINE I-90)
(INSTALL NE AND SE RAMP TERMINALS ON I-90)



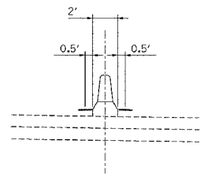
PHASE I MAINTENANCE OF TRAFFIC
(MAINLINE I-90 AT THE BRIDGES)
(REMOVE AND REPLACE SB I-90 BRIDGE)



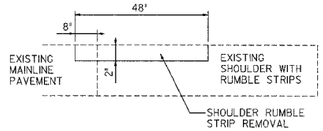
PHASE 2 MAINTENANCE OF TRAFFIC
(MAINLINE I-90 AT THE BRIDGES)
(REMOVE AND REPLACE NB I-90 BRIDGE)



PHASE 3 MAINTENANCE OF TRAFFIC
(MAINLINE I-90)
(RAMP PAVING, PLAZA INSTALLATION, AND FINAL LANDSCAPING)



DETAIL
TEMPORARY
CONCRETE BARRIER



DETAIL
SHOULDER RUMBLE
STRIP REMOVAL

KEY
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTES:
1. ALL TEMPORARY LANE STRIPING TO BE AS SHOWN ON PLANS.
2. ITEMS SHOWN WITH DOTTED LINES ARE EXISTING.

STAGING NOTES:

1. SOUTHBOUND I-90 TRAFFIC IS TO BE CROSSED OVER ONTO THE NORTHBOUND I-90 LANES. NORTHBOUND I-90 TRAFFIC IS TO BE SHIFTED OVER TO ALLOW 2 LANES OF TRAFFIC IN EACH DIRECTION ON THE NORTHBOUND I-90 LANES.
2. UPON COMPLETION OF SOUTHBOUND BRIDGE, AUXILIARY LANE AND RAMP TERMINI, THE NORTHBOUND I-90 TRAFFIC SHALL BE CROSSED OVER ONTO THE SOUTHBOUND I-90 LANES. SOUTHBOUND I-90 TRAFFIC IS TO BE SHIFTED OVER TO ALLOW 2 LANES OF TRAFFIC IN EACH DIRECTION ON THE SOUTHBOUND I-90 LANES.
3. UPON COMPLETEION OF NORTHBOUND BRIDGE, AUXILIARY LANE, AND RAMP TERMINI, THE SOUTHBOUND I-90 TRAFFIC SHALL BE CROSSED OVER ONTO THTE SOUTHBOUND I-90 LANES. NORTHBOUND I-90 TRAFFIC IS TO BE SHIFTED OVER TO ORIGINAL NORTHBOUND LANES. TEMPORARY CONCRETE BARRIER MEDIAN IS TO REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE ON THE RAMPS AND THE INTERCHANGE IS OPEN FOR FULL USE.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETAILS - I-90

SCALE: VERT. N/A
HORIZ. N/A
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS

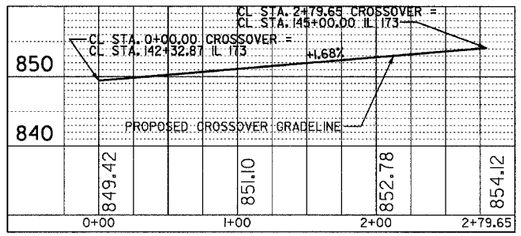
McClure Engineering Associates, Inc.

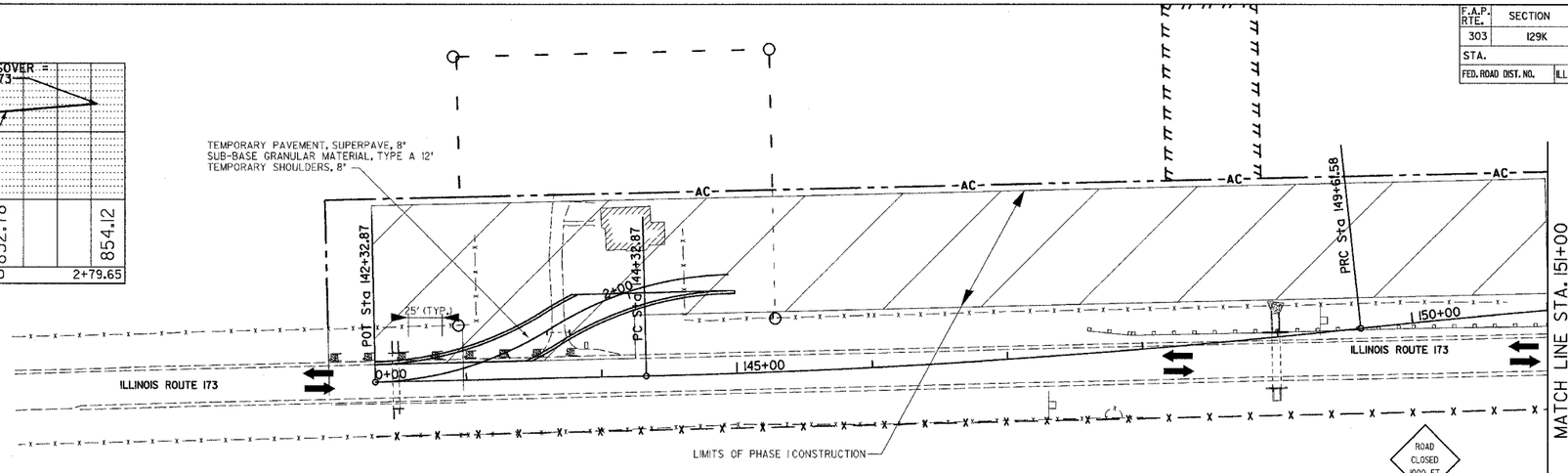
MAINTENANCE OF TRAFFIC DETAILS – IL 173 AND ROCK CUT STATE PARK ENTRANCE

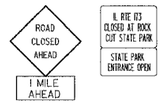
CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	102
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CROSSOVER PROFILE







PLACE SIGN 500' WEST OF
IL 173 / MITCHELL ROAD INTERSECTION

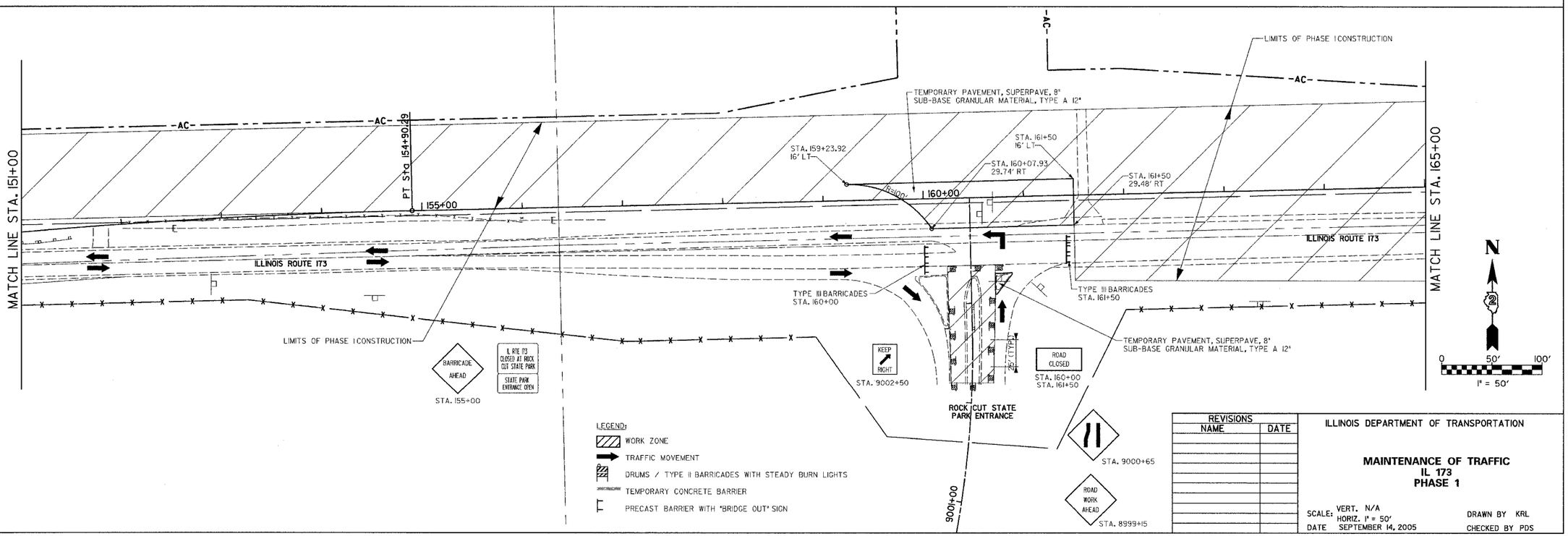
WORK TO BE PERFORMED IN PHASE I:
1. BEGIN CONSTRUCTION EAST OF ROCK CUT STATE PARK ENTRANCE.
2. CONSTRUCT WESTBOUND LANES WEST OF ROCK CUT STATE PARK ENTRANCE.
3. CONSTRUCT TEMPORARY CROSSOVER AT WEST END OF PROJECT.
4. REMOVE EAST ISLAND AT ROCK CUT STATE PARK ENTRANCE AND PLACE TEMPORARY PAVEMENT.
5. CONSTRUCT TEMPORARY PAVEMENT IN IL 173 MEDIAN AREA AS NEEDED FOR ACCESS TO ROCK CUT STATE PARK.
6. CONSTRUCT MEDIAN AND INSIDE LANES ON ROCK CUT STATE PARK ENTRANCE.

STA. 140+00

CURVE DATA
PI STA. = 0+70.30
I = 30° 49' 31"
D = 22° 28' 08"
R = 255'
T = 70.30'
L = 137.19'
E = 9.51'
e = N/C
P.C. STA. = 0+00.00
P.T. STA. = 1+37.19

CURVE DATA
PI STA. = 2+07.99
I = 31° 02' 03" (LT)
D = 22° 28' 08"
R = 255'
T = 70.80'
L = 138.12'
E = 9.65'
e = N/C
P.C. STA. = 1+37.19
P.T. STA. = 2+75.31

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN



LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
IL 173
PHASE 1

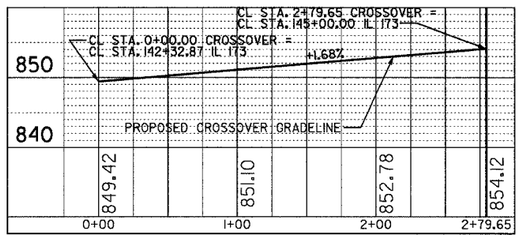
SCALE: VERT. N/A
HORIZ. 1" = 50'
DRAWN BY KRL
DATE SEPTEMBER 14, 2005
CHECKED BY PDS

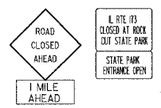
McClure Engineering Associates, Inc.

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	103
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CROSSOVER PROFILE





PLACE SIGN 500' WEST OF IL 173 / MITCHELL ROAD INTERSECTION

CROSSOVER ADVANCE WARNING SIGNS TO BE PLACED PER IDOT STD 701331-02

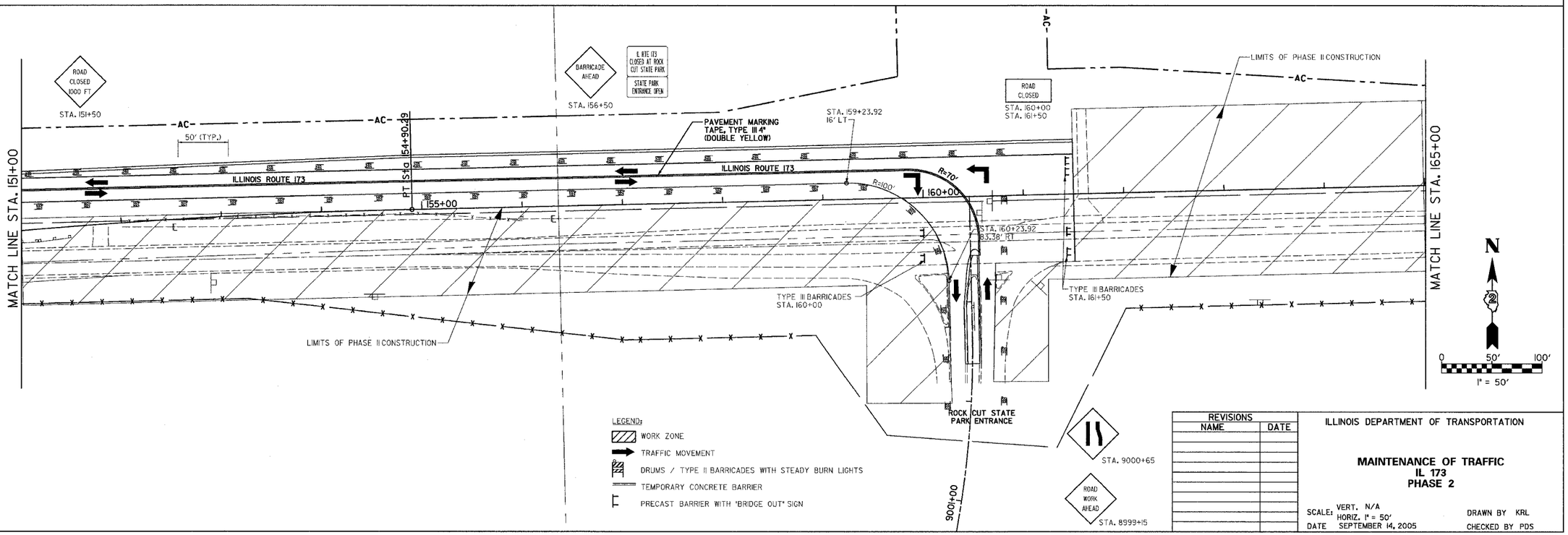
CURVE DATA
PI STA. = 0+70.30
I = 30^ 49' 31"
D = 22^ 28' 08"
R = 255'
T = 70.30'
L = 137.19'
E = 9.51'
e = N/C
P.C. STA. = 0+00.00
P.T. STA. = 1+37.19

CURVE DATA
PI STA. = 2+07.99
I = 31^ 02' 03" (LT)
D = 22^ 28' 08"
R = 255'
T = 70.80'
L = 138.12'
E = 9.65'
e = N/C
P.C. STA. = 1+37.19
P.T. STA. = 2+75.31

WORK TO BE PERFORMED IN PHASE 2:
1. CONTINUE CONSTRUCTION EAST OF ROCK CUT STATE PARK ENTRANCE.
2. CONSTRUCT EASTBOUND IL 173 LANES WEST OF ROCK CUT STATE PARK ENTRANCE.
3. REMOVE WEST ISLAND AT ROCK CUT STATE PARK ENTRANCE.
4. CONSTRUCT OUTSIDE LANES ON ROCK CUT STATE PARK ENTRANCE.

STA. 146+50

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN



LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

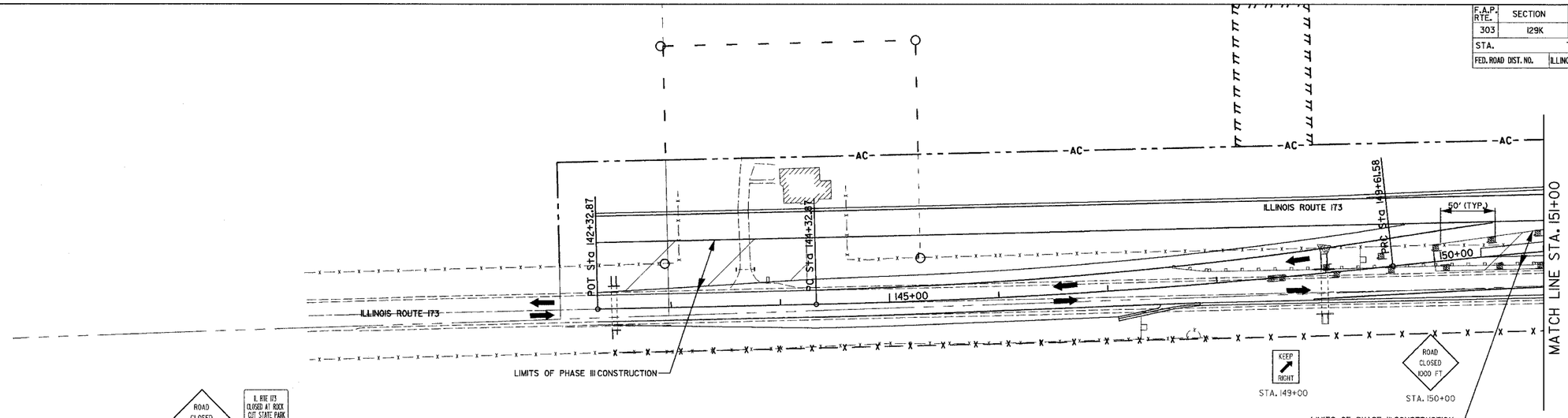
MAINTENANCE OF TRAFFIC IL 173 PHASE 2

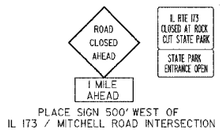
SCALE: VERT. N/A
HORIZ. 1" = 50'
DRAWN BY KRL
DATE SEPTEMBER 14, 2005
CHECKED BY PDS

McClure Engineering Associates, Inc.

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	104
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



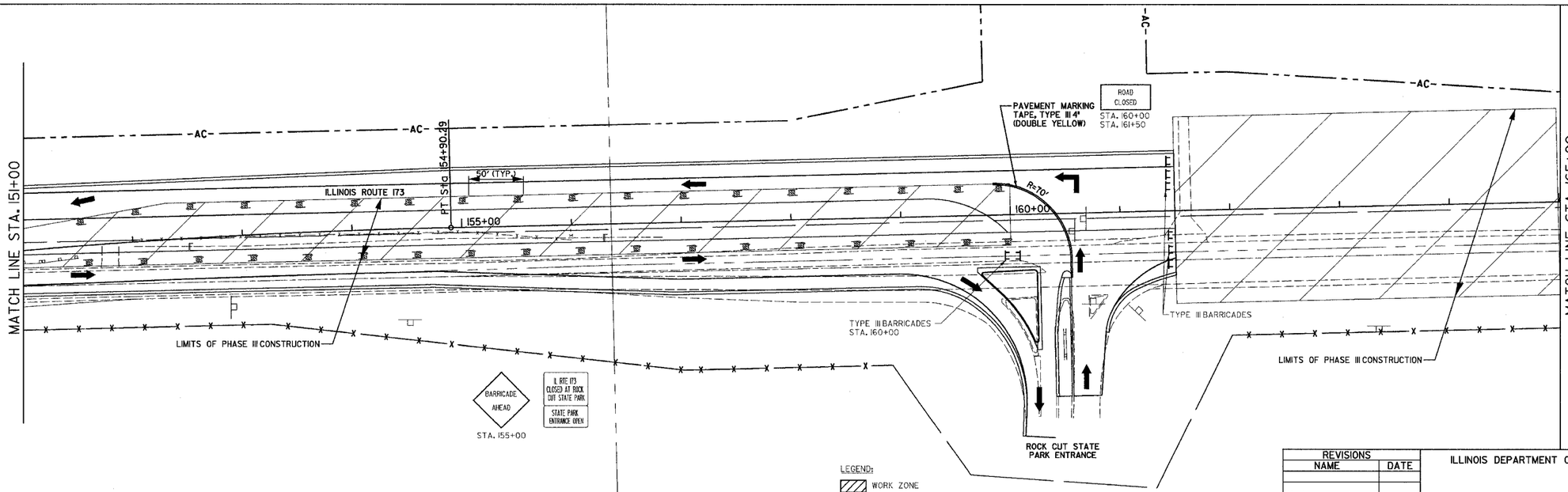


PLACE SIGN 500' WEST OF
IL 173 / MITCHELL ROAD INTERSECTION

STA. 140+00

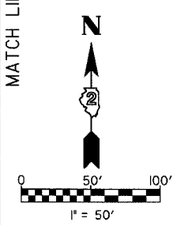
WORK TO BE PERFORMED IN PHASE 3:
1. COMPLETE CONSTRUCTION EAST OF ROCK CUT STATE PARK ENTRANCE.
2. CONSTRUCT IL 173 MEDIAN WEST OF ROCK CUT STATE PARK.
3. REMOVE TEMPORARY CROSSOVER AT WEST END OF PROJECT.

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN



STA. 155+00

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
IL 173
PHASE 3

SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

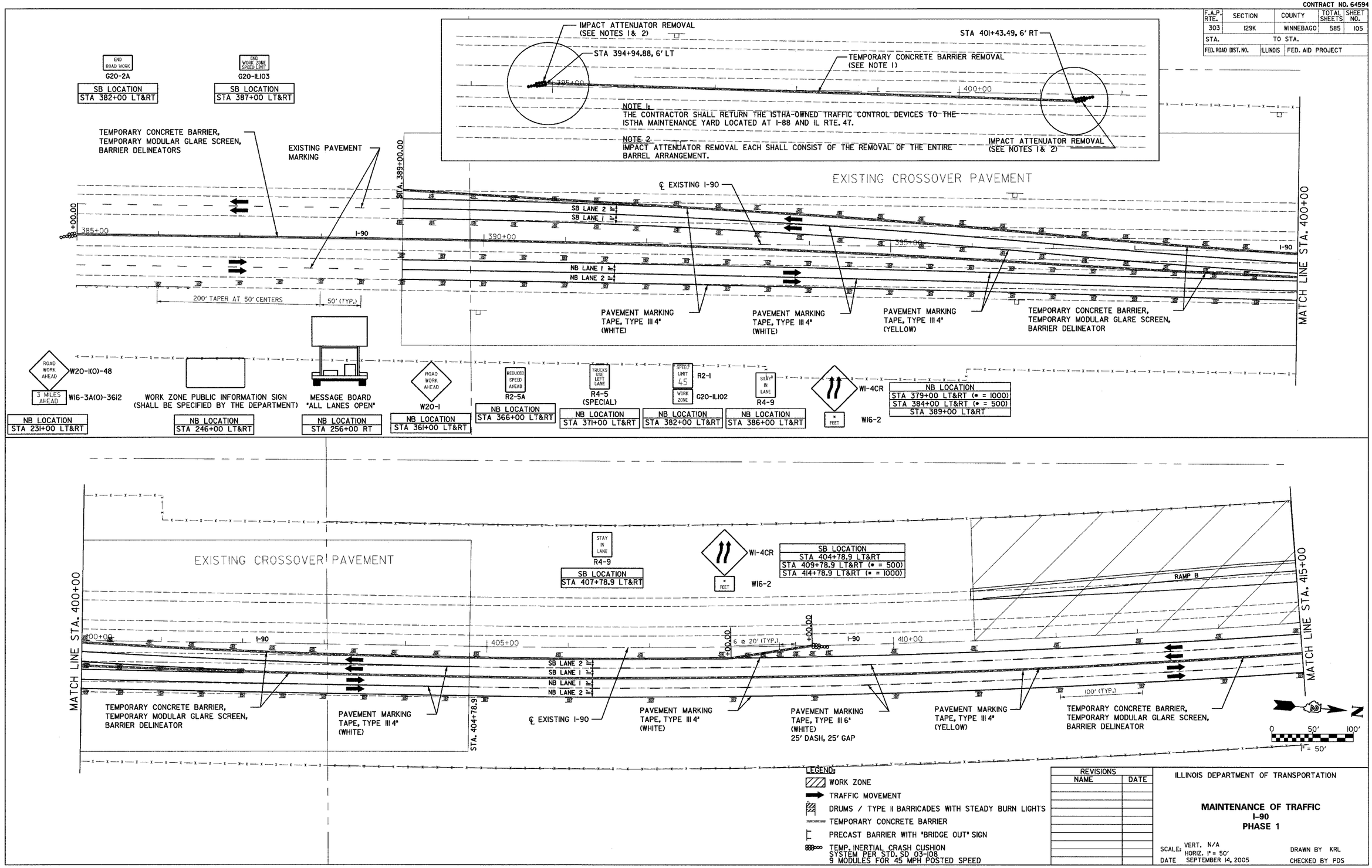
DRAWN BY KRL
CHECKED BY PDS

McClure Engineering Associates, Inc.

MAINTENANCE OF TRAFFIC IL 173 PHASE 3

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	105
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC I-90 PHASE 1

SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

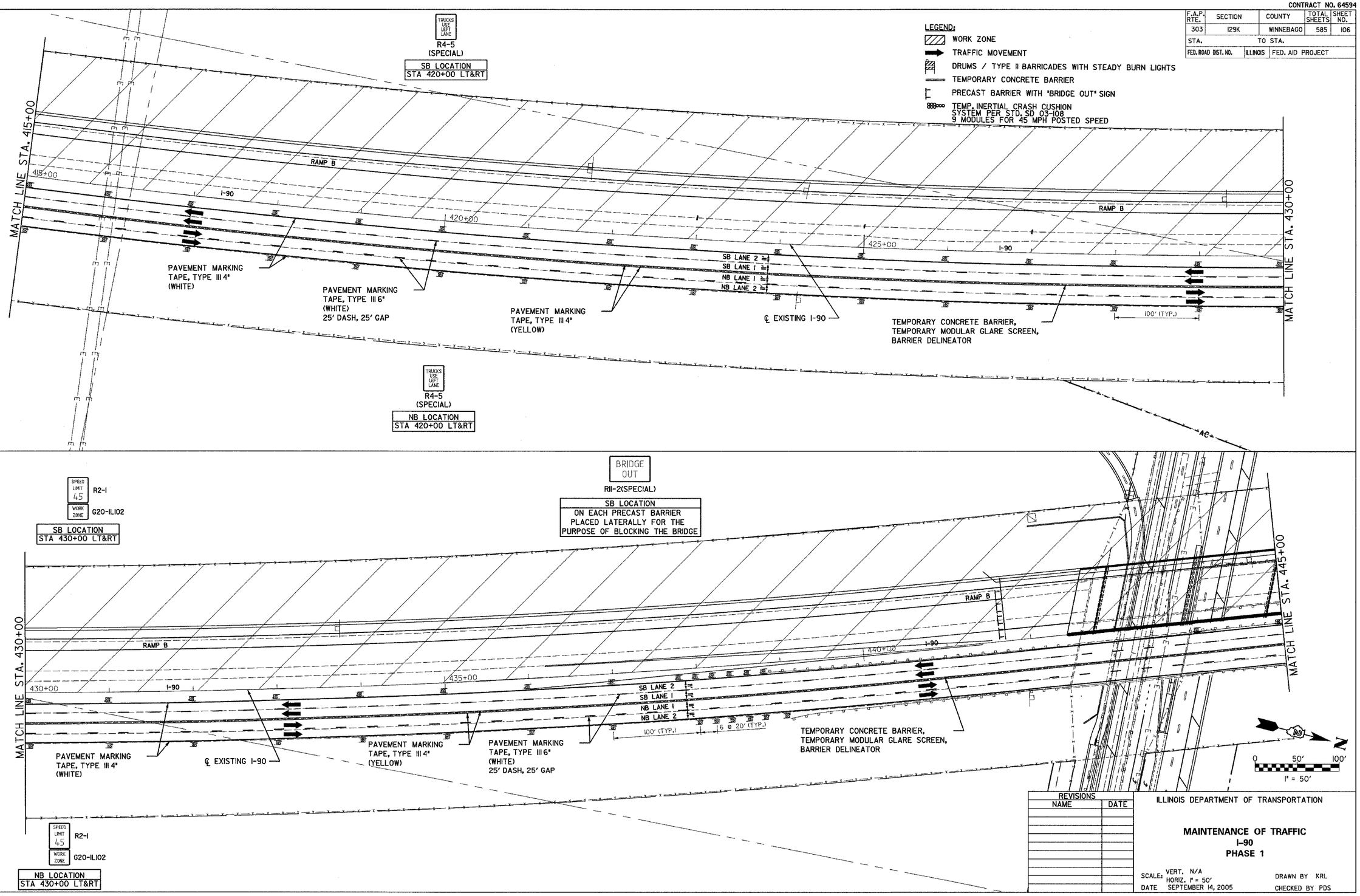
DRAWN BY KRL
CHECKED BY PDS

McClure Engineering Associates, Inc.

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	106
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC I-90 PHASE 1

SCALE: VERT. N/A HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005
DRAWN BY KRL
CHECKED BY PDS

McClure Engineering Associates, Inc.

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	107
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED

BRIDGE OUT
RII-2(SPECIAL)

SB LOCATION
ON EACH PRECAST BARRIER PLACED LATERALLY FOR THE PURPOSE OF BLOCKING THE BRIDGE

MATCH LINE STA. 445+00

MATCH LINE STA. 460+00

RAMP B

445+00

I-90

450+00

455+00

I-90

SB LANE 2
SB LANE 1
NB LANE 1
NB LANE 2

100' (TYP.)

℄ EXISTING I-90

TEMPORARY CONCRETE BARRIER, TEMPORARY MODULAR GLARE SCREEN, BARRIER DELINEATOR

PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)

PAVEMENT MARKING TAPE, TYPE III 6" (WHITE) 25' DASH, 25' GAP

PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)

35+00

AC

AC

AC

MATCH LINE STA. 460+00

MATCH LINE STA. 475+00

RAMP A

460+00

I-90

465+00

470+00

I-90

SB LANE 2
SB LANE 1
NB LANE 1
NB LANE 2

100' (TYP.)

℄ EXISTING I-90

TEMPORARY CONCRETE BARRIER, TEMPORARY MODULAR GLARE SCREEN, BARRIER DELINEATOR

PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)

PAVEMENT MARKING TAPE, TYPE III 6" (WHITE) 25' DASH, 25' GAP

PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)

TRUCKS USE LEFT LANE
R4-5
(SPECIAL)

NB LOCATION
STA 470+00 LT&RT

SB LOCATION
STA 470+00 LT&RT

N

0 50' 100'
1" = 50'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

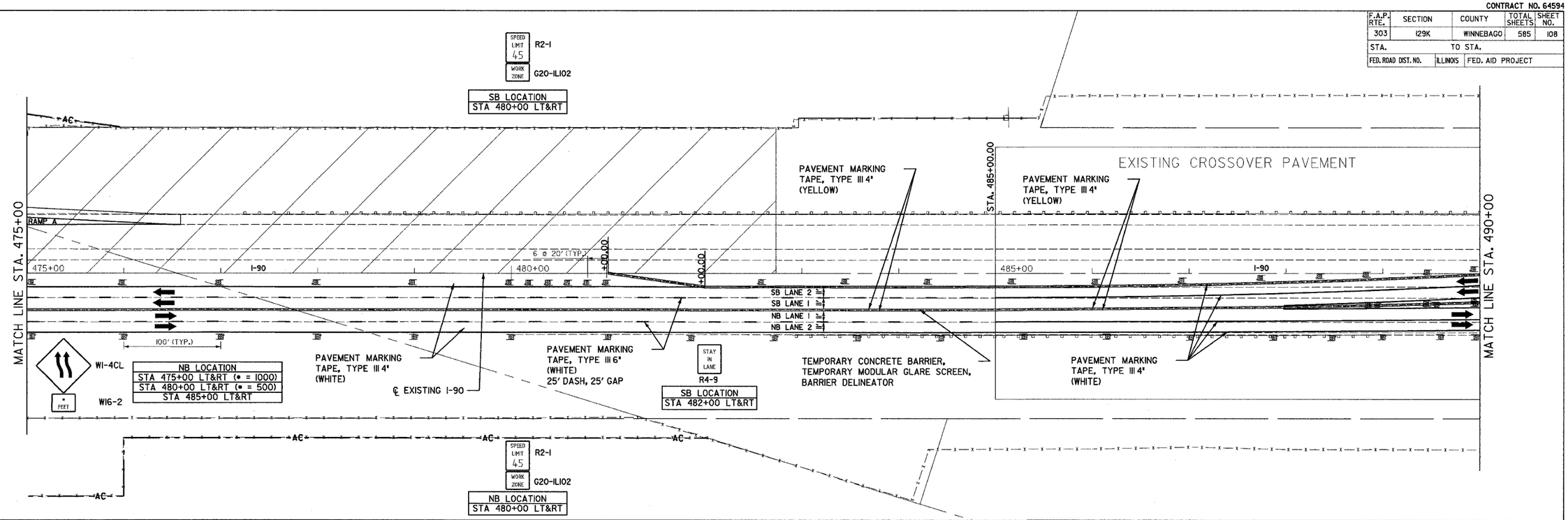
MAINTENANCE OF TRAFFIC
I-90
PHASE 1

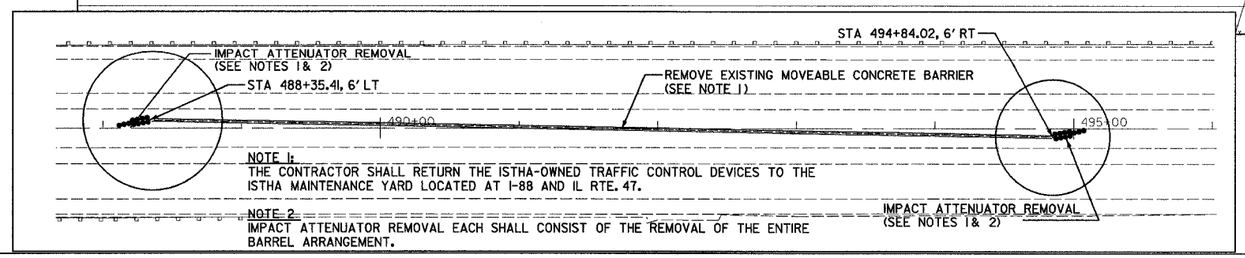
SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	108
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND:

- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC I-90 PHASE 1

SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	109
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

END ROAD WORK
G20-2A

SB LOCATION
STA 382+00 LT&RT

END WORK ZONE SPEED LIMIT
G20-IL103

SB LOCATION
STA 387+00 LT&RT

RELOCATE TEMPORARY CONCRETE BARRIER,
RELOCATE MODULAR GLARE SCREEN SYSTEM,
RELOCATE BARRIER DELINEATOR

EXISTING PAVEMENT MARKING

STA. 389+00.00

℄ EXISTING I-90

EXISTING CROSSOVER PAVEMENT

PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)

SB LANE 2
SB LANE 1
NB LANE 1
NB LANE 2

385+00 I-90 390+00 395+00 I-90

200' TAPER AT 50' CENTERS

50' (TYP.)

RELOCATE TEMPORARY CONCRETE BARRIER,
RELOCATE MODULAR GLARE SCREEN SYSTEM,
RELOCATE BARRIER DELINEATOR

PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)

MATCH LINE STA. 400+00

ROAD WORK AHEAD
W20-1(0)-48

3 MILES AHEAD
W16-3A(0)-3612

NB LOCATION
STA 231+00 LT&RT

WORK ZONE PUBLIC INFORMATION SIGN
(SHALL BE SPECIFIED BY THE DEPARTMENT)

NB LOCATION
STA 246+00 LT&RT

MESSAGE BOARD
"ALL LANES OPEN"

NB LOCATION
STA 256+00 RT

ROAD WORK AHEAD
W20-1

NB LOCATION
STA 361+00 LT&RT

REDUCED SPEED AHEAD
R2-5A

NB LOCATION
STA 366+00 LT&RT

TRUCKS USE LEFT LANE
R4-5
(SPECIAL)

NB LOCATION
STA 371+00 LT&RT

SPEED LIMIT 45
WORK ZONE
G20-IL102
R2-1

NB LOCATION
STA 382+00 LT&RT

STAY IN LANE
R4-9

NB LOCATION
STA 386+00 LT&RT

W1-4CL
* FEET
W16-2

NB LOCATION
STA 379+00 LT&RT (• = 1000)
STA 384+00 LT&RT (• = 500)
STA 389+00 LT&RT

STAY IN LANE
R4-9

SB LOCATION
STA 407+78.9 LT&RT

W1-4CL
* FEET
W16-2

SB LOCATION
STA 404+78.9 LT&RT
STA 409+78.9 LT&RT (• = 500)
STA 414+78.9 LT&RT (• = 1000)

EXISTING CROSSOVER PAVEMENT

MATCH LINE STA. 400+00

RELOCATE TEMPORARY CONCRETE BARRIER,
RELOCATE MODULAR GLARE SCREEN SYSTEM,
RELOCATE BARRIER DELINEATOR

PAVEMENT MARKING TAPE, TYPE III 6" (WHITE) 25' DASH, 25' GAP

PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)

PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)

100' (TYP.)

50' (TYP.)

RAMP B

SB LANE 2
SB LANE 1
NB LANE 1
NB LANE 2

400+00 I-90 405+00 410+00 I-90

6 @ 20' (TYP.)

+00.00

+00.00

STA. 404+78.9

℄ EXISTING I-90

MATCH LINE STA. 415+00

PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)

N

0 50' 100'

1" = 50'

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
I-90
PHASE 2

SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS

McClure Engineering Associates, Inc.

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	110
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED

TRUCKS USE LEFT LANE
R4-5 (SPECIAL)
SB LOCATION
STA 420+00 LT&RT

PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)

PAVEMENT MARKING TAPE, TYPE III 6" (WHITE) 25' DASH, 25' GAP

PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)

℄ EXISTING I-90

RELOCATE TEMPORARY CONCRETE BARRIER, RELOCATE MODULAR GLARE SCREEN SYSTEM, RELOCATE BARRIER DELINEATOR

MATCH LINE STA. 415+00

MATCH LINE STA. 430+00

RAMP B

RAMP D

I-90

415+00

420+00

425+00

50' (TYP.)

SB LANE 2
SB LANE 1
NB LANE 1
NB LANE 2

TRUCKS USE LEFT LANE
R4-5 (SPECIAL)
NB LOCATION
STA 420+00 LT&RT

SPEED LIMIT 45
R2-1
WORK ZONE
G20-IL102
SB LOCATION
STA 430+00 LT&RT

PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)

PAVEMENT MARKING TAPE, TYPE III 6" (WHITE) 25' DASH, 25' GAP

PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)

℄ EXISTING I-90

RELOCATE TEMPORARY CONCRETE BARRIER, RELOCATE MODULAR GLARE SCREEN SYSTEM, RELOCATE BARRIER DELINEATOR

MATCH LINE STA. 430+00

MATCH LINE STA. 445+00

RAMP B

I-90

430+00

435+00

440+00

50' (TYP.)

SB LANE 2
SB LANE 1
NB LANE 1
NB LANE 2

STA 441+30.33

TYPE III BARRICADES STA 412+00

BRIDGE OUT
RII-2(SPECIAL)
NB LOCATION
ON EACH PRECAST BARRIER PLACED LATERALLY FOR THE PURPOSE OF BLOCKING THE BRIDGE

SPEED LIMIT 45
R2-1
WORK ZONE
G20-IL102
NB LOCATION
STA 430+00 LT&RT

0 50' 100'
1" = 50'

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC I-90 PHASE 2

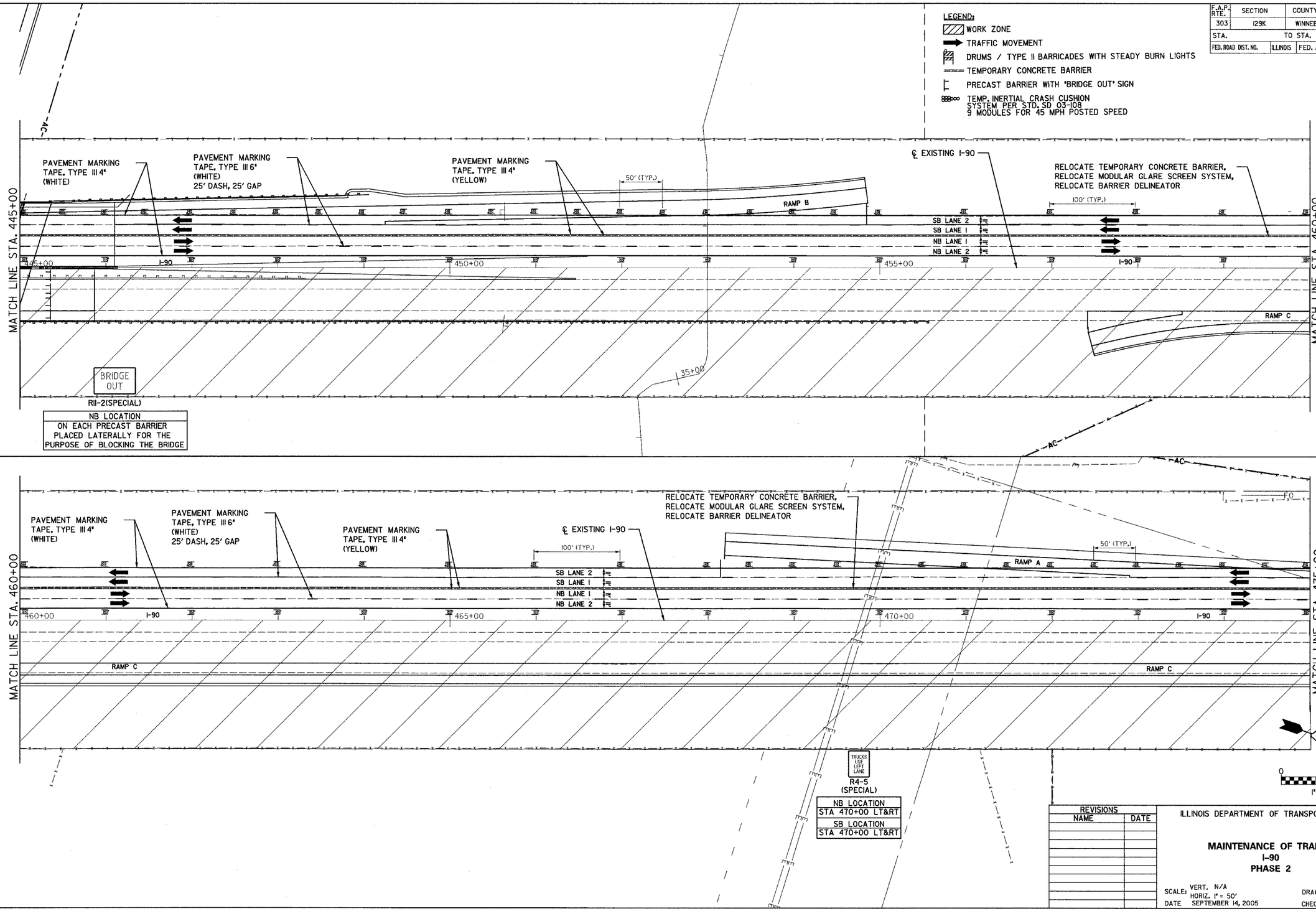
SCALE: VERT. N/A HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005
DRAWN BY KRL
CHECKED BY PDS

McClure Engineering Associates, Inc.

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	111
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

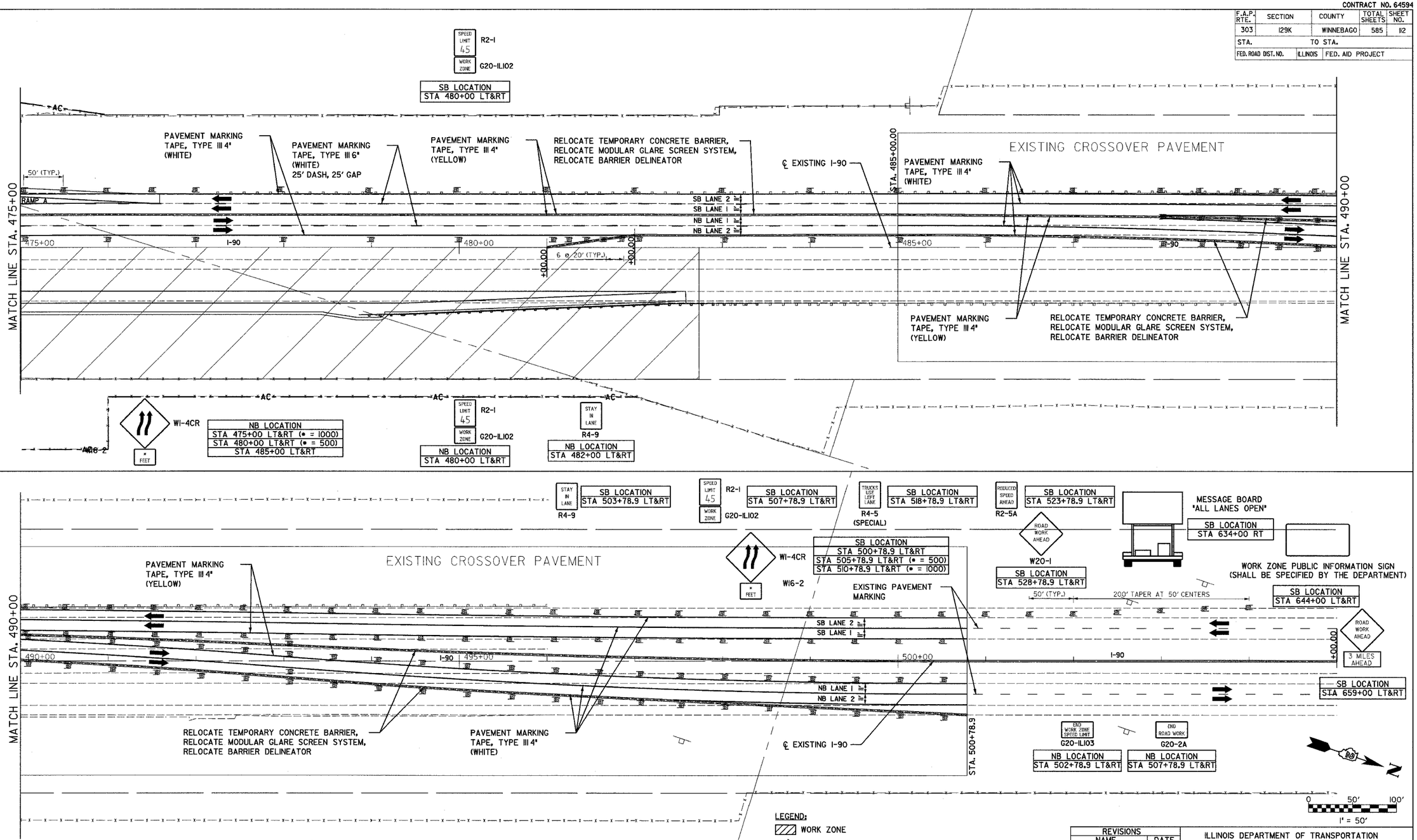
MAINTENANCE OF TRAFFIC
I-90
PHASE 2

SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	112
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
I-90
PHASE 2

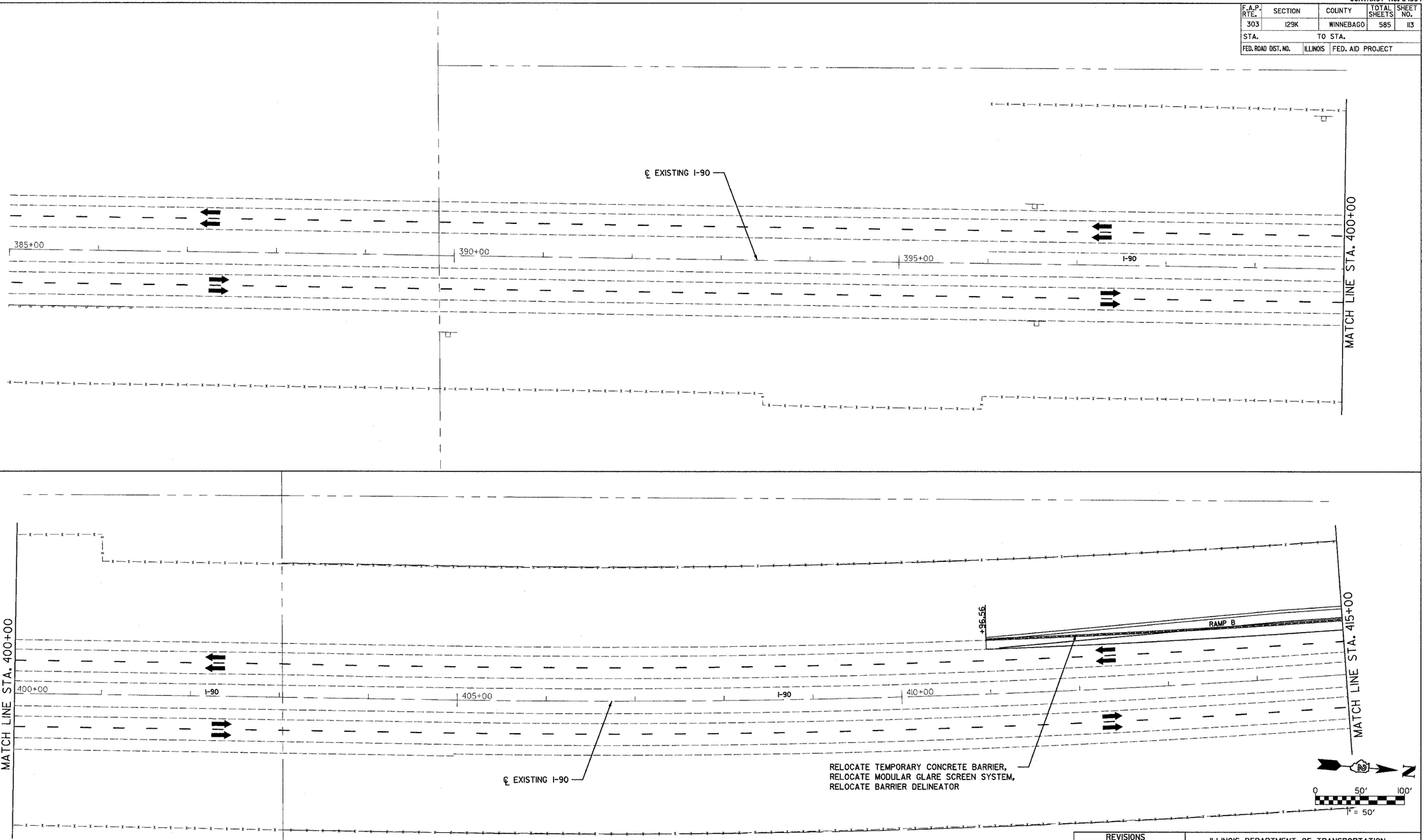
SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS

McClure Engineering Associates, Inc.

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	113
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
I-90
PHASE 3

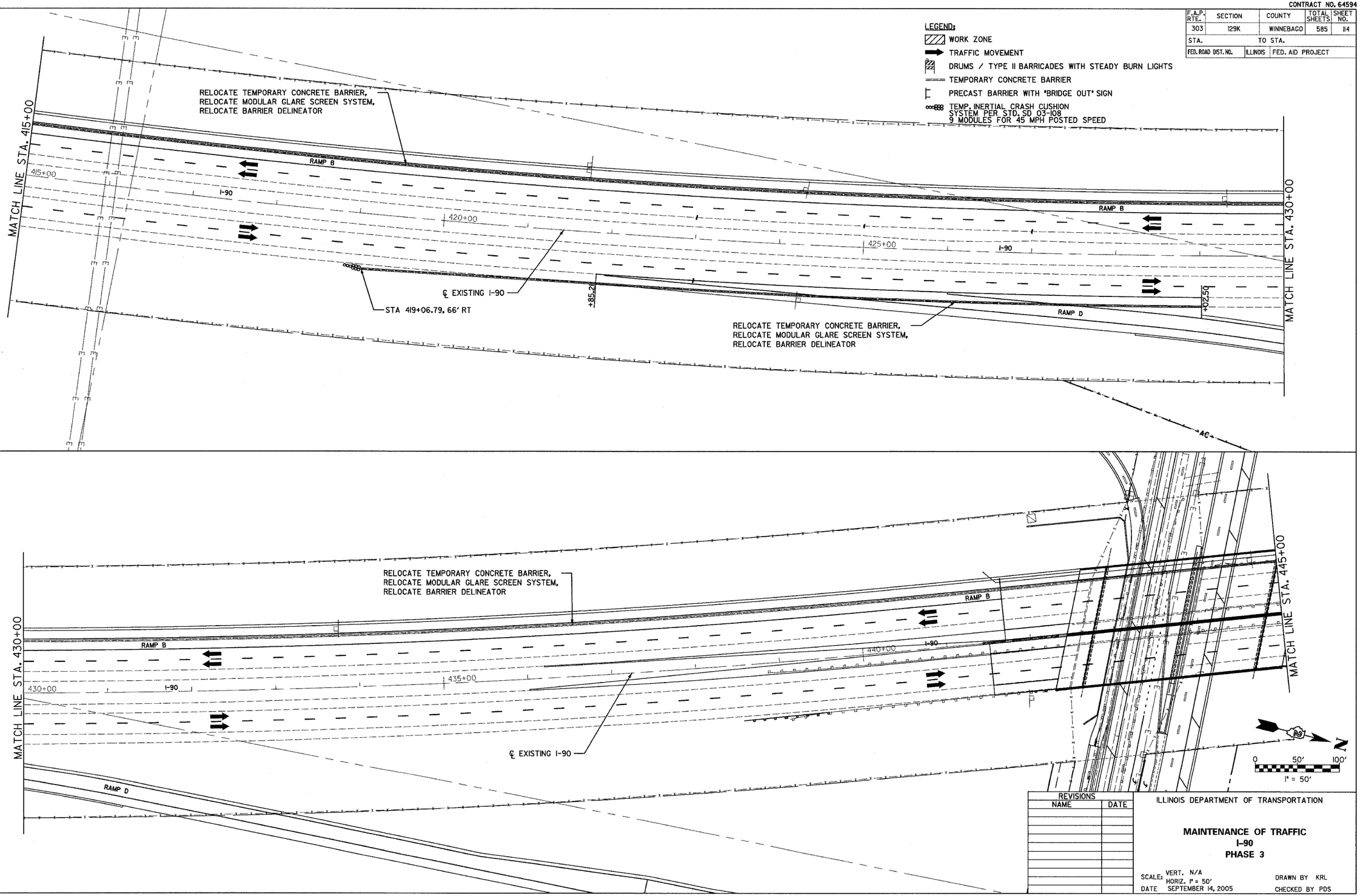
SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	114
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND:
- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

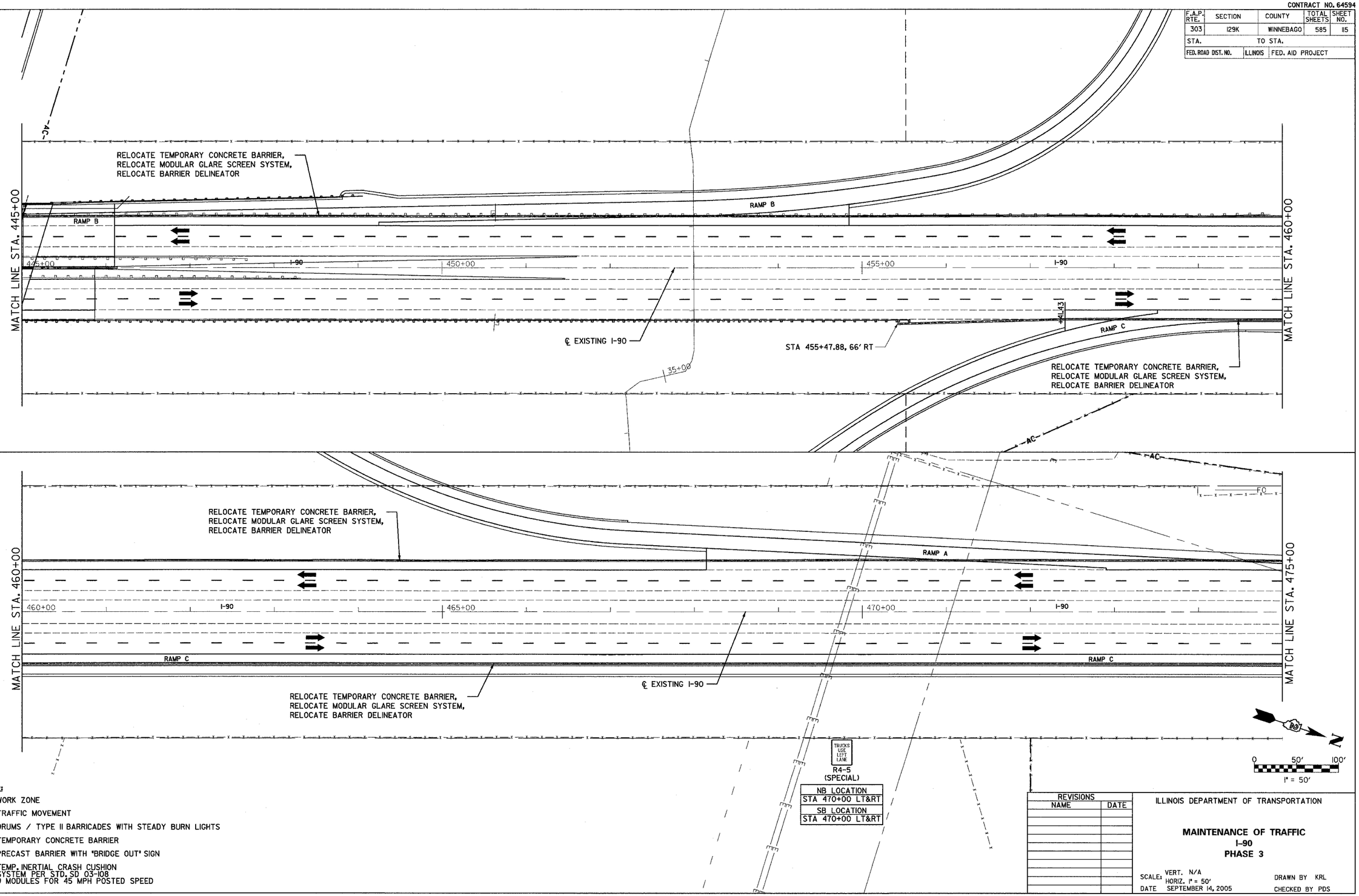
MAINTENANCE OF TRAFFIC
I-90
PHASE 3

SCALE: VERT. N/A
HORIZ. 1" = 50'
DRAWN BY KRL
DATE SEPTEMBER 14, 2005
CHECKED BY PDS

McClure Engineering Associates, Inc.

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	115
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN
- TEMP. INERTIAL CRASH CUSHION SYSTEM PER STD. SD 03-108 9 MODULES FOR 45 MPH POSTED SPEED

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
I-90
PHASE 3

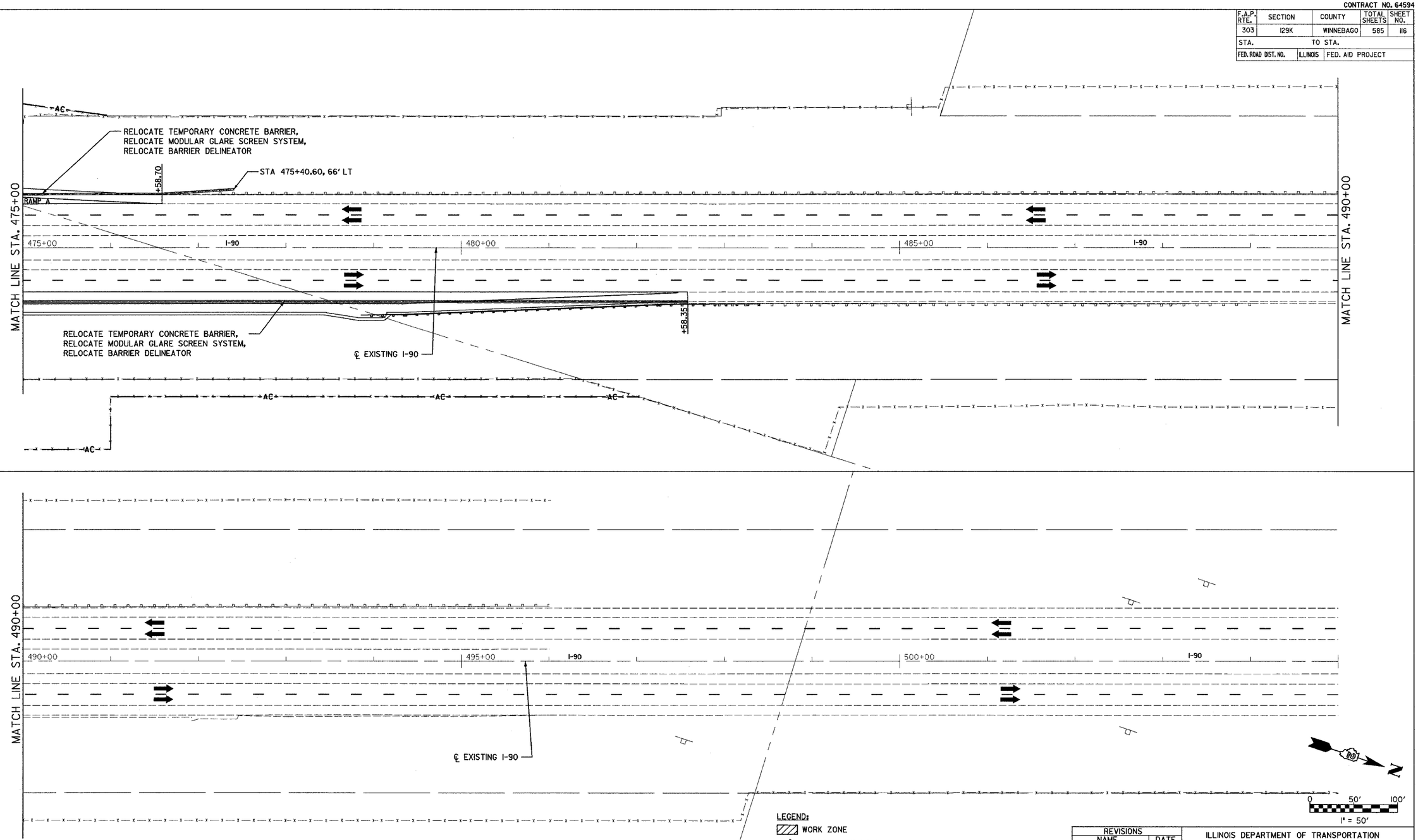
SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS

McClure Engineering Associates, Inc.

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	116
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

- WORK ZONE
- TRAFFIC MOVEMENT
- DRUMS / TYPE II BARRICADES WITH STEADY BURN LIGHTS
- TEMPORARY CONCRETE BARRIER
- PRECAST BARRIER WITH "BRIDGE OUT" SIGN

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
I-90
PHASE 3

SCALE: VERT. N/A
HORIZ. 1" = 50'
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS

McClure Engineering Associates, Inc.

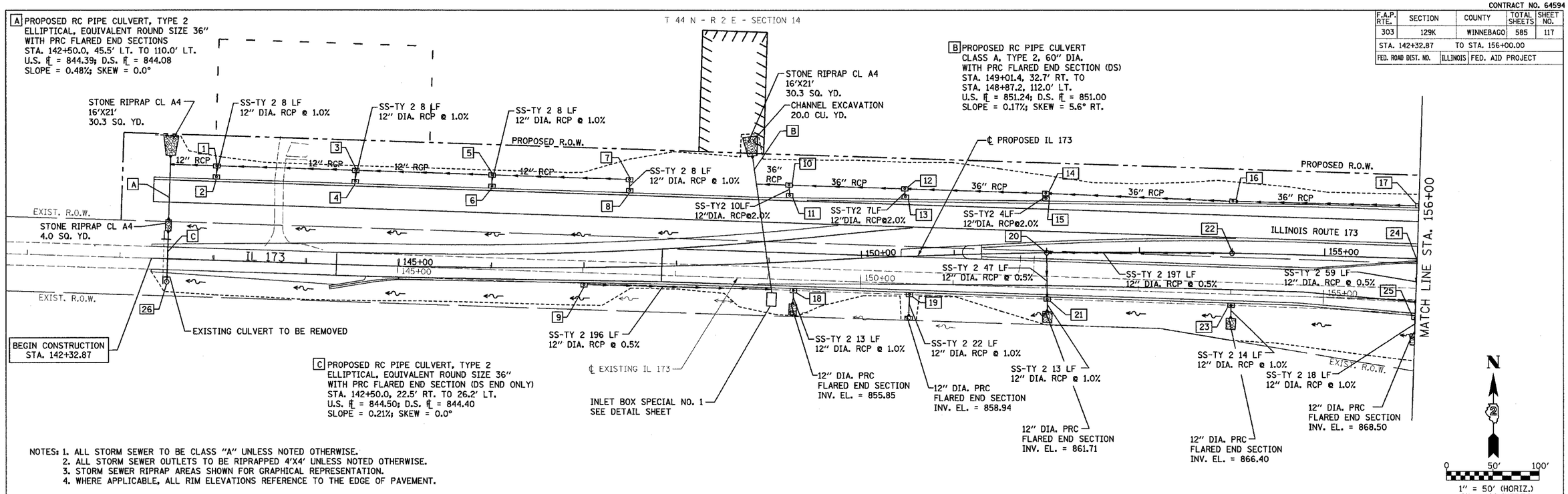
CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	117
STA. 142+32.87		TO STA. 156+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN — SURVEYED / PLOTTED / ALL R/W MONUMENTS FOUND / ALL R/W MARKERS SET / NOTE BOOK / NO. / DATE / BY / CADD FILE NAME / DRAWING CHECKED / STRUCTURE NO(S)TYPES CK'KD

PROFILE — SURVEYED / PLOTTED / ALL R/W MONUMENTS FOUND / ALL R/W MARKERS SET / NOTE BOOK / NO. / DATE / BY / STRUCTURE NO(S)TYPES CK'KD

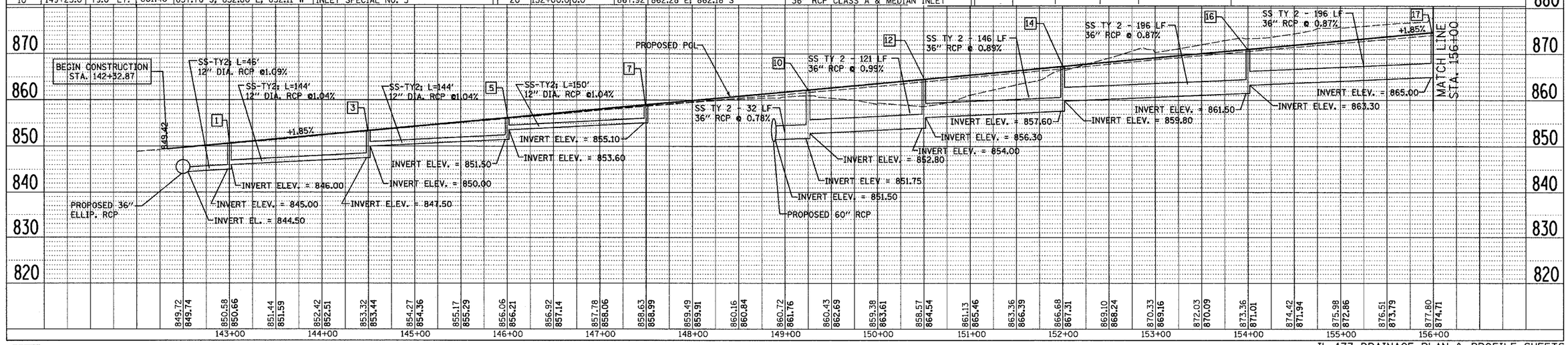
T 44 N - R 2 E - SECTION 14



NOTES: 1. ALL STORM SEWER TO BE CLASS "A" UNLESS NOTED OTHERWISE.
2. ALL STORM SEWER OUTLETS TO BE RIPRAPPED 4'X4' UNLESS NOTED OTHERWISE.
3. STORM SEWER RIPRAP AREAS SHOWN FOR GRAPHICAL REPRESENTATION.
4. WHERE APPLICABLE, ALL RIM ELEVATIONS REFERENCE TO THE EDGE OF PAVEMENT.

T 44 N - R 2 E - SECTION 23

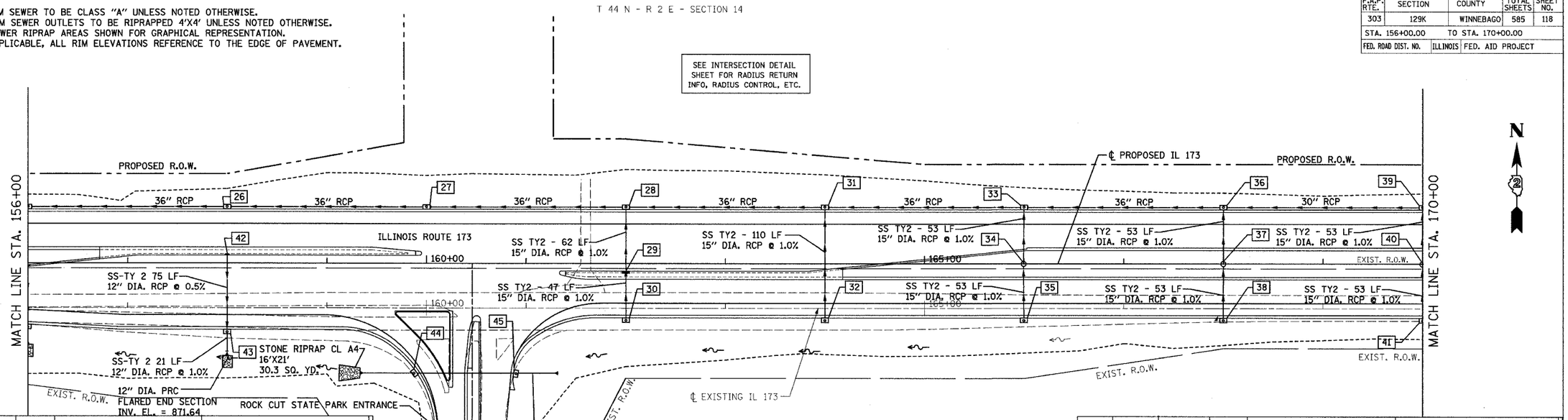
STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
1	143+00.0	97.0' LT.	849.91	847.09 S; 846.00 E; 845.00 W	INLET SPECIAL NO. 3
2	143+00.0	85.0' LT.	850.21	847.17 N	INLET SPECIAL NO. 3
3	144+50.0	97.0' LT.	852.68	849.86 S; 850.00 E; 847.50 W	INLET SPECIAL NO. 3
4	144+50.0	85.0' LT.	852.98	849.94 N	INLET SPECIAL NO. 3
5	146+00.0	94.8' LT	855.43	852.59 S; 853.60 E; 851.50 W	INLET SPECIAL NO. 3
6	146+00.0	82.8' LT.	855.71	852.67 N	INLET SPECIAL NO. 3
7	147+50.0	89.0' LT.	858.18	855.34 S; 855.10 W	INLET SPECIAL NO. 3
8	147+50.0	77.0' LT.	858.46	855.42 N	INLET SPECIAL NO. 3
9	147+00.0	14.1' RT.	857.78	852.48 E	INLET SPECIAL NO. 5
10	149+25.0	79.0' LT.	861.40	857.76 S; 852.80 E; 852.11 W	INLET SPECIAL NO. 3
11	149+25.0	65.7' LT.	861.67	857.96 N	INLET SPECIAL NO. 3
12	150+50.0	69.1' LT.	863.72	859.82 S; 856.30 E; 856.20 W	INLET SPECIAL NO. 3
13	150+50.0	58.9' LT.	863.91	859.96 N	INLET SPECIAL NO. 3
14	152+00.0	60.1' LT.	866.51	862.88 S; 859.80 E; 859.70 W	INLET SPECIAL NO. 3
15	152+00.0	53.0' LT.	866.64	862.96 N	INLET SPECIAL NO. 3
16	154+00.0	50.9' LT.	870.27	863.30 E; 863.20 W	INLET SPECIAL NO. 3
17	156+00.0	52.0' LT.	873.93	866.80 E; 866.70 W	INLET SPECIAL NO. 3
18	149+25.0	26.6' RT.	861.68	855.98 S	INLET SPECIAL NO. 5
19	150+50.0	36.5' RT.	863.78	859.16 S	INLET SPECIAL NO. 5
20	152+00.0	0.0'	867.92	862.28 E; 862.18 S	36" RCP CLASS A & MEDIAN INLET
21	152+00.0	45.3' RT.	866.61	861.94 N; 861.84 S	INLET SPECIAL NO. 5
22	154+00.0	0.0'	871.37	863.27 W	36" RCP CLASS A & MEDIAN INLET
23	154+00.0	51.3' RT.	870.24	866.54 S	INLET SPECIAL NO. 5
24	156+00.0	3.5' RT.	874.90	869.08 S	INLET SPECIAL NO. 2
25	156+00.0	58.9' RT.	873.79	868.78 N; 868.68 S	INLET SPECIAL NO. 5
26	142+50.0	25.0' RT.	848.00	844.50	MH TY A 6' DIA. & 36" DIA. MEDIAN INLET W/ RISER



CONTRACT NO. 64594

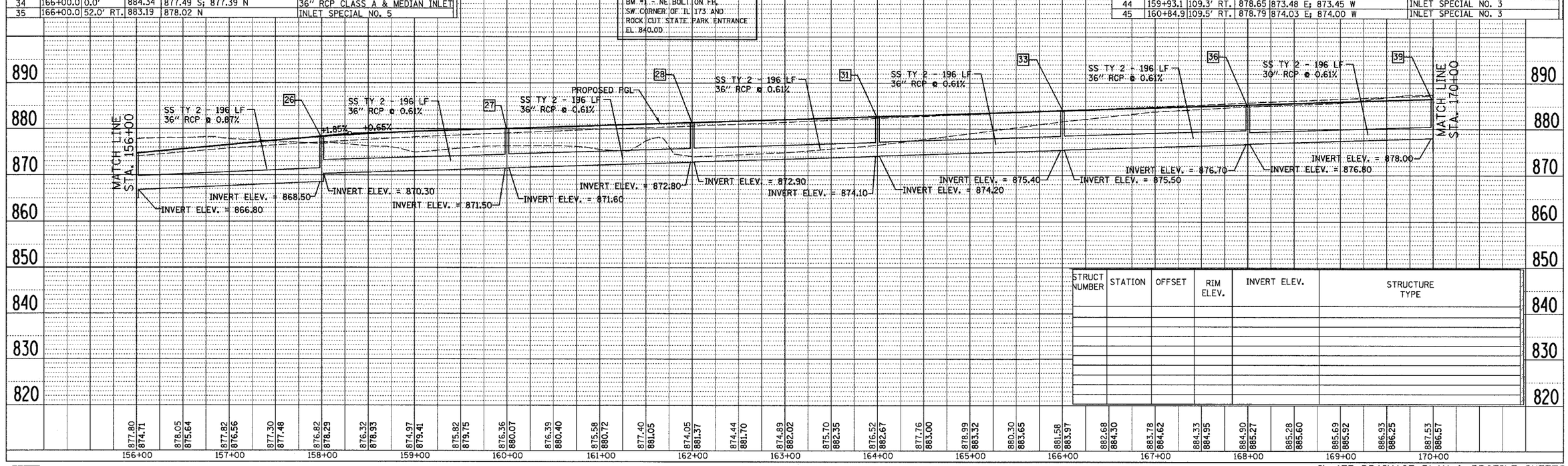
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	118
STA. 156+00.00		TO STA. 170+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES: 1. ALL STORM SEWER TO BE CLASS "A" UNLESS NOTED OTHERWISE.
2. ALL STORM SEWER OUTLETS TO BE RIPRAPPED 4'X4' UNLESS NOTED OTHERWISE.
3. STORM SEWER RIPRAP AREAS SHOWN FOR GRAPHICAL REPRESENTATION.
4. WHERE APPLICABLE, ALL RIM ELEVATIONS REFERENCE TO THE EDGE OF PAVEMENT.



STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
26	158+00.0	52.0' LT.	877.51	870.30 E; 870.20 W	INLET SPECIAL NO. 3
27	160+00.0	52.0' LT.	879.29	871.60 E; 871.50 W	INLET SPECIAL NO. 3
28	162+00.0	52.0' LT.	880.59	874.86 S; 872.90 E; 872.80 W	INLET SPECIAL NO. 3
29	162+00.0	7.6' RT.	881.50	875.58 S; 875.48 N	INLET SPECIAL NO. 2
30	162+00.0	52.0' RT.	880.59	876.05 N	INLET SPECIAL NO. 5
31	164+00.0	52.0' LT.	881.89	875.96 S; 874.20 E; 874.10 W	INLET SPECIAL NO. 3
32	164+00.0	52.0' RT.	881.89	877.06 N	INLET SPECIAL NO. 5
33	166+00.0	52.0' LT.	883.19	876.86 S; 875.50 E; 875.40 W	INLET SPECIAL NO. 3
34	166+00.0	0.0'	884.34	877.49 S; 877.39 N	36" RCP CLASS A & MEDIAN INLET
35	166+00.0	52.0' RT.	883.19	878.02 N	INLET SPECIAL NO. 5

STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
36	168+00.0	52.0' LT.	884.49	878.86 S; 876.80 E; 876.70 W	INLET SPECIAL NO. 3
37	168+00.0	0.0'	885.60	879.49 S; 879.39 N	36" RCP CL A & MEDIAN INLET
38	168+00.0	52.0' RT.	884.49	880.02 N	INLET SPECIAL NO. 5
39	170+00.0	52.0' LT.	885.79	879.86 S; 878.10 E; 878.00 W	INLET SPECIAL NO. 3
40	170+00.0	0.0'	886.90	880.49 S; 880.39 N	36" RCP CL A & MEDIAN INLET
41	170+00.0	52.0' RT.	885.79	881.02 N	INLET SPECIAL NO. 5
42	158+00.0	8.0' LT.	878.41	872.60 S	INLET SPECIAL NO. 2
43	158+00.0	64.0' RT.	877.27	871.85 N & S	INLET SPECIAL NO. 5
44	159+93.1	109.3' RT.	878.65	873.48 E; 873.45 W	INLET SPECIAL NO. 3
45	160+84.9	109.5' RT.	878.79	874.03 E; 874.00 W	INLET SPECIAL NO. 3



STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE

McClure Engineering Associates, Inc.

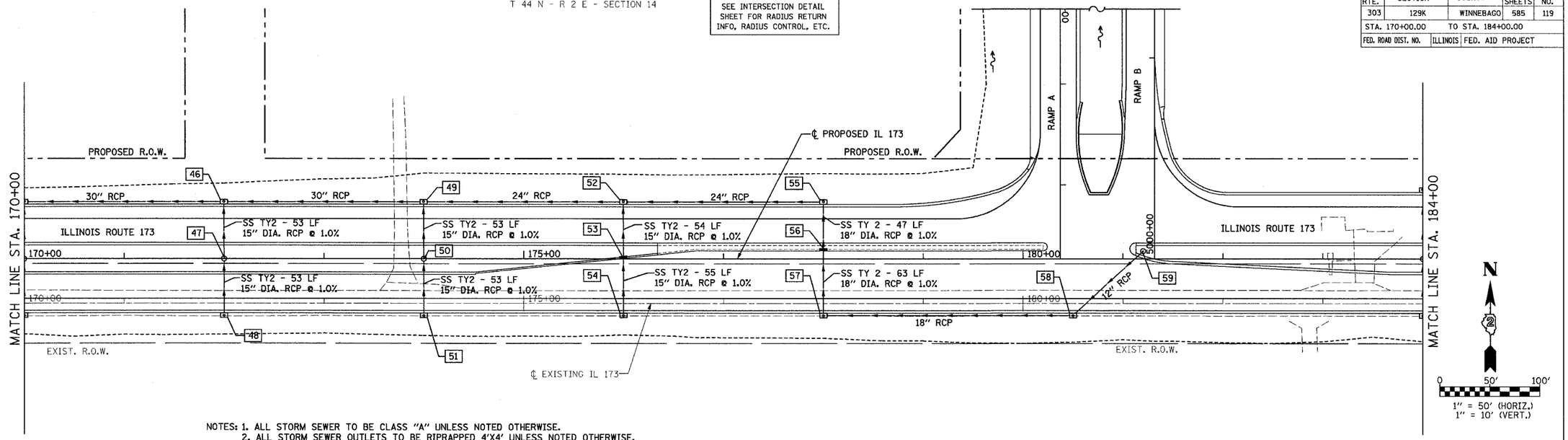
IL 173 DRAINAGE PLAN & PROFILE SHEETS
STA. 156+00 TO 170+00

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	119
STA. 170+00.00		TO STA. 184+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

T 44 N - R 2 E - SECTION 14

SEE INTERSECTION DETAIL SHEET FOR RADIUS RETURN INFO, RADIUS CONTROL, ETC.

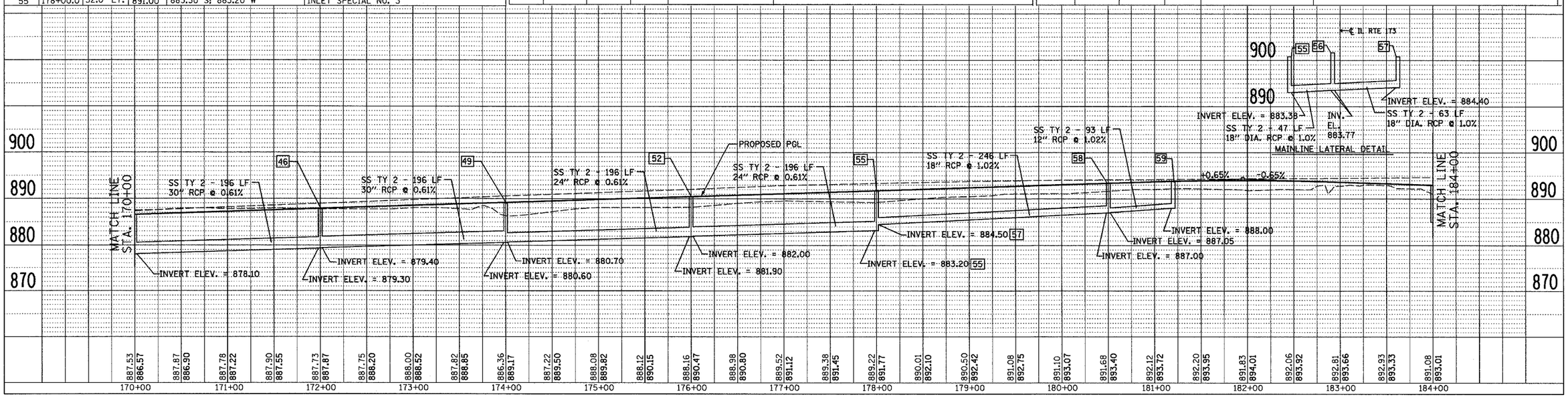


NOTES: 1. ALL STORM SEWER TO BE CLASS "A" UNLESS NOTED OTHERWISE.
2. ALL STORM SEWER OUTLETS TO BE RIPRAPPED 4'X4' UNLESS NOTED OTHERWISE.
3. STORM SEWER RIPRAP AREAS SHOWN FOR GRAPHICAL REPRESENTATION.
4. WHERE APPLICABLE, ALL RIM ELEVATIONS REFERENCE TO THE EDGE OF PAVEMENT.

STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
46	172+00.0	52.0' LT.	887.09	880.86 S; 879.40 E; 879.30 W	INLET SPECIAL NO. 3
47	172+00.0	0.0'	889.20	881.49 S; 881.39 N	36" RCP CLASS A & MEDIAN INLET
48	172+00.0	52.0' RT.	887.09	882.02 N	INLET SPECIAL NO. 5
49	174+00.0	52.0' LT.	888.39	881.86 S; 880.70 E; 880.60 W	INLET SPECIAL NO. 3
50	174+00.0	0.0'	889.50	882.49 S; 882.39 N	36" RCP CLASS A & MEDIAN INLET
51	174+00.0	52.0' RT.	888.39	883.02 N	INLET SPECIAL NO. 5
52	176+00.0	52.0' LT.	889.69	882.86 S; 882.00 E; 881.90 W	INLET SPECIAL NO. 3
53	176+00.0	0.5' LT.	890.71	883.50 S; 883.40 N	INLET SPECIAL NO. 2
54	176+00.0	52.0' RT.	889.69	884.05 N	INLET SPECIAL NO. 5
55	178+00.0	52.0' LT.	891.00	883.30 S; 883.20 W	INLET SPECIAL NO. 3

STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
56	178+00.0	8.1' LT.	891.89	883.77 S; 883.77 N	INLET SPECIAL NO. 2
57	178+00.0	52.0' RT.	891.00	884.50 E; 884.40 N	INLET SPECIAL NO. 5
58	180+50.0	52.0' RT.	892.62	887.07 NE; 887.00 W	INLET SPECIAL NO. 5
59	181+20.2	7.7' LT.	894.55	888.00 SW	24" RCP CLASS A & MEDIAN INLET

STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE



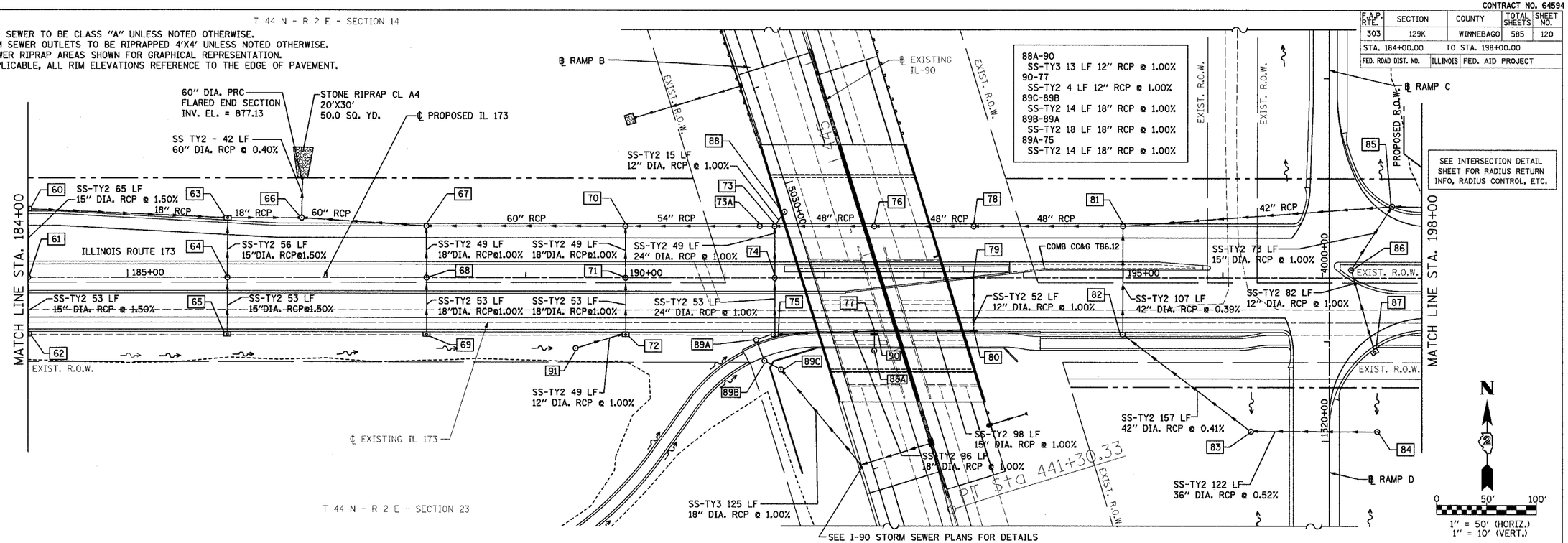
McClure Engineering Associates, Inc.

IL 173 DRAINAGE PLAN & PROFILE SHEETS
STA. 170+00 TO STA. 184+00

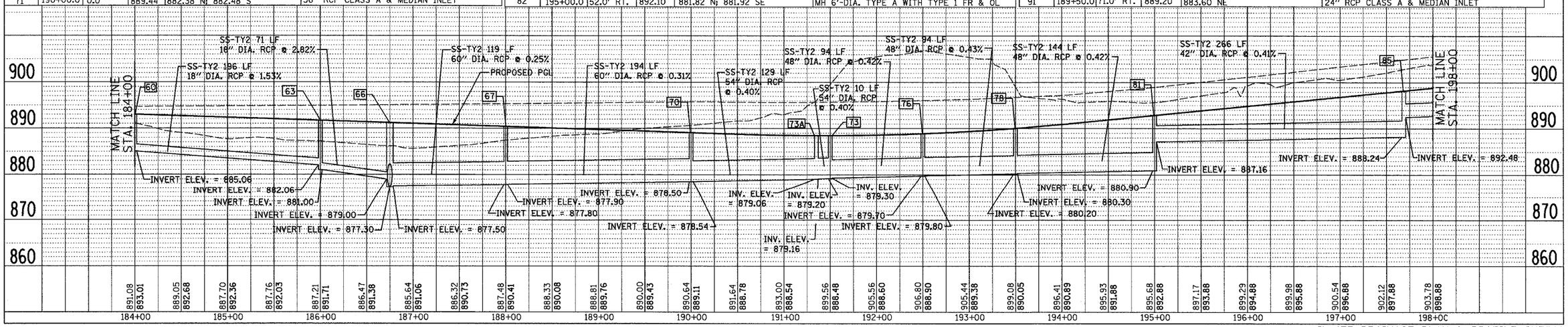
CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	120
STA. 184+00.00	TO STA. 198+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES: 1. ALL STORM SEWER TO BE CLASS "A" UNLESS NOTED OTHERWISE.
2. ALL STORM SEWER OUTLETS TO BE RIPRAPPED 4'X4' UNLESS NOTED OTHERWISE.
3. STORM SEWER RIPRAP AREAS SHOWN FOR GRAPHICAL REPRESENTATION.
4. WHERE APPLICABLE, ALL RIM ELEVATIONS REFERENCE TO THE EDGE OF PAVEMENT.



STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
60	184+00.0	64.0' LT.	891.99	885.06 E; 885.16 S	INLET SPECIAL NO. 5
61	184+00.0	0.0'	893.34	886.14 N; 886.24 S	36" RCP CLASS A & MEDIAN INLET
62	184+00.0	52.0' RT.	892.23	887.04 N	INLET SPECIAL NO. 5
63	186+00.0	54.8' LT	890.87	884.30 S; 882.06 W; 881.00 E	INLET SPECIAL NO. 5
64	186+00.0	0.0'	892.04	885.14 N; 885.24 S	36" RCP CLASS A & MEDIAN INLET
65	186+00.0	52.0' RT.	890.93	886.04 N	INLET SPECIAL NO. 5
66	186+75.0	60.0' LT.	890.55	879.00 W; 877.30 N; 877.50 E	MANHOLE, SPECIAL WITH CLOSED LID
67	188+00.0	52.0' LT	889.63	877.80 W; 877.90 E; 883.89 S	MH 6'-DIA. TYPE A WITH TYPE 1 FR & OL
68	188+00.0	0.0'	890.74	884.38 N; 884.48 S	36" RCP CLASS A & MEDIAN INLET
69	188+00.0	52.0' RT.	889.63	885.01 N	INLET SPECIAL NO. 5
70	190+00.0	52.0' LT.	888.33	878.50 W; 878.60 E; 881.89 S	MH 6'-DIA. TYPE A WITH TYPE 1 FR & OL
71	190+00.0	0.0'	889.44	882.38 N; 882.48 S	36" RCP CLASS A & MEDIAN INLET
72	190+00.0	52.0' RT.	888.33	883.01 N; 883.11 W	INLET SPECIAL NO. 5
73	191+50.0	52.0' LT.	887.70	879.20 W;879.30 E;881.07 S;882.00 N	MH 6'-DIA. TYPE A WITH TYPE 1 FR & OL
73A	191+35.0	52.0' LT.	887.72	879.06 W; 879.16 E	MH 6'-DIA. TYPE A WITH TYPE 1 FR & OL
74	191+50.0	0.0'	888.81	881.56 N; 881.66 S	36" RCP CLASS A & MEDIAN INLET
75	191+50.0	52.0' RT.	887.70	882.19 N; 882.29 E; 884.85 W	INLET SPECIAL NO. 5
76	192+50.0	52.0' LT.	888.12	879.70 W; 879.80 E	MH 6'-DIA. TYPE A WITH TYPE 1 FR & OL
77	192+50.0	52.0' RT.	888.12	883.24 W; 883.34 E; 884.00 S	INLET SPECIAL NO. 1
78	193+50.0	52.0' LT.	889.27	880.20 W; 880.30 E	MH 6'-DIA. TYPE A WITH TYPE 1 FR & OL
79	193+50.0	0.2' RT.	890.28	884.94 S	INLET SPECIAL NO. 2
80	193+50.0	52.0' RT.	889.27	884.42 N; 884.32 W	INLET SPECIAL NO. 1
81	195+00.0	52.0' LT.	892.10	880.90 W; 887.16 E; 881.40 S	MH 6'-DIA. TYPE A WITH TYPE 1 FR & OL
82	195+00.0	52.0' RT.	892.10	881.82 N; 881.92 SE	MH 6'-DIA. TYPE A WITH TYPE 1 FR & OL
83	196+28.3	154.1' RT.	888.90	882.57 NW; 882.67 E	MH TY A 5' DIA. & 36" DIA. MEDIAN INLET
84	197+55.1	154.1' RT.	888.30	883.30 W	WITH RISER (STRUCTS. 83 & 84)
85	197+69.3	69.7' LT.	896.99	888.24 W; 892.48 E; 888.34 S	MANHOLE, SPECIAL WITH FR & LID
86	197+29.0	8.0' LT.	897.85	889.07 NE; 889.17 SE	36" RCP CLASS A & MEDIAN INLET
87	197+51.7	71.9' RT.	896.41	889.99 NW	INLET SPECIAL NO. 5
88	191+60.0	66.5' LT.	888.10	882.15	24" RCP CLASS A & MEDIAN INLET
88A	192+50.0	72.5' RT.	895.40	884.27 N	24" RCP CLASS A & MEDIAN INLET
89A	191+31.3	62.5' RT.	887.10	884.99 E; 885.10 S	36" RCP CLASS A & MEDIAN INLET
89B	191+39.7	83.4' RT.	887.10	885.28 N; 885.38 E	36" RCP CLASS A & MEDIAN INLET
89C	191+56.2	92.1' RT.	899.00	885.52 W; 885.91 S	36" RCP CLASS A & MEDIAN INLET
90	192+50.0	57.5' RT.	888.50	884.14 S; 884.04 N	INLET SPECIAL
91	189+50.0	71.0' RT.	889.20	883.60 NE	24" RCP CLASS A & MEDIAN INLET



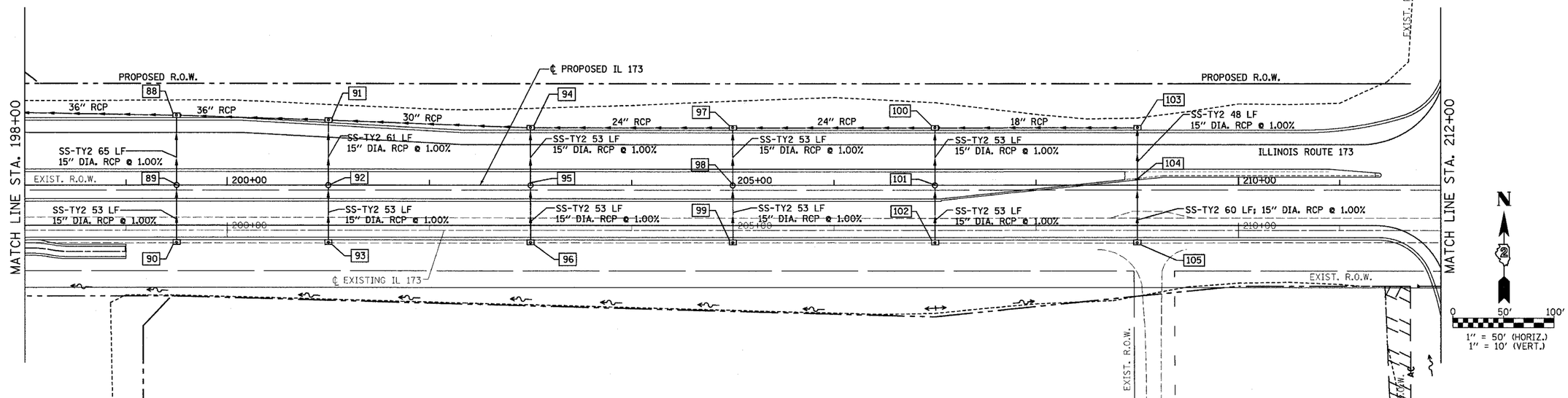
CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	121
STA. 198+00.00	TO STA. 212+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

T 44 N - R 2 E - SECTION 14

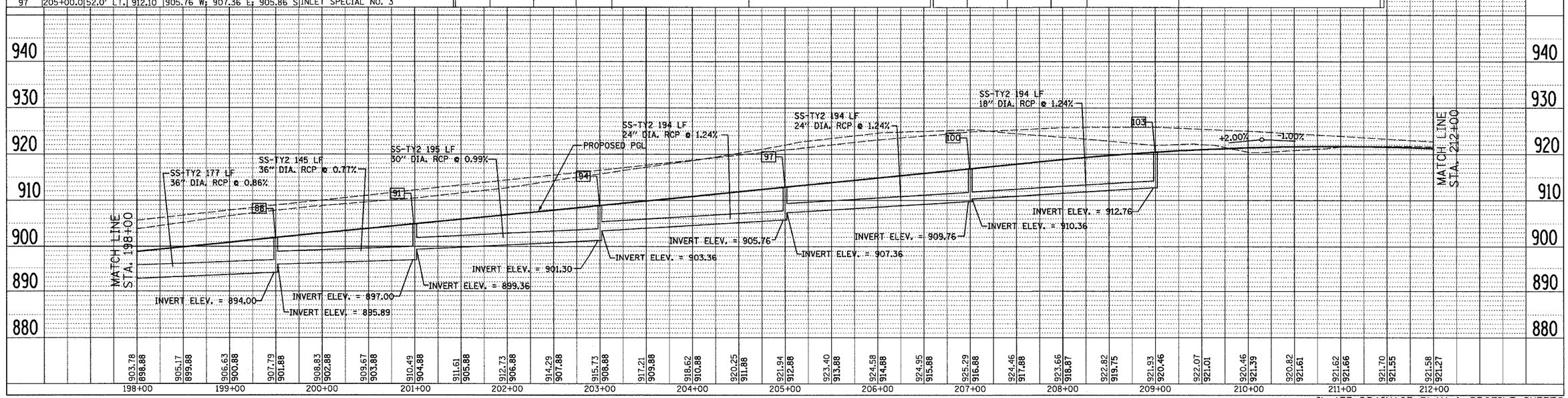
NOTES: 1. ALL STORM SEWER TO BE CLASS "A" UNLESS NOTED OTHERWISE.
2. ALL STORM SEWER OUTLETS TO BE RIPRAPPED 4'X4' UNLESS NOTED OTHERWISE.
3. STORM SEWER RIPRAP AREAS SHOWN FOR GRAPHICAL REPRESENTATION.
4. WHERE APPLICABLE, ALL RIM ELEVATIONS REFERENCE TO THE EDGE OF PAVEMENT.

PLAN — DATE / BY — SURVEYED, PLOTTED, BEARINGS CHECKED, ALIGNMENT CHECKED, NOTE BOOK, NO., CADD FILE NAME



STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
88	199+50.0	64.0' LT.	900.86	894.64 W; 895.89 E; 894.74 S	INLET SPECIAL NO. 3
89	199+50.0	0.0'	902.21	895.39 N; 895.49 S	36" RCP CLASS A & MEDIAN INLET
90	199+50.0	52.0' RT.	901.10	896.02 N	INLET SPECIAL NO. 5
91	201+00.0	59.3' LT.	903.95	897.69 W; 899.36 E; 897.79 S	INLET SPECIAL NO. 3
92	201+00.0	0.0'	905.21	898.40 N; 898.50 S	36" RCP CLASS A & MEDIAN INLET
93	201+00.0	52.0' RT.	904.10	899.03 N	INLET SPECIAL NO. 5
94	203+00.0	52.0' LT.	908.10	901.76 W; 903.36 E; 901.86 S	INLET SPECIAL NO. 3
95	203+00.0	0.0'	909.21	902.39 N; 902.49 S	36" RCP CLASS A & MEDIAN INLET
96	203+00.0	52.0' RT.	908.10	903.02 N	INLET SPECIAL NO. 5
97	205+00.0	52.0' LT.	912.10	905.76 W; 907.36 E; 905.86 S	INLET SPECIAL NO. 3
98	205+00.0	0.0'	913.21	906.39 N; 906.49 S	36" RCP CLASS A & MEDIAN INLET
99	205+00.0	52.0' RT.	912.10	907.02 N	INLET SPECIAL NO. 5
100	207+00.0	52.0' LT.	916.10	909.76 W; 910.36 E; 909.86 S	INLET SPECIAL NO. 3
101	207+00.0	0.0'	917.21	910.39 N; 910.49 S	36" RCP CLASS A & MEDIAN INLET
102	207+00.0	52.0' RT.	916.10	911.02 N	INLET SPECIAL NO. 5
103	209+00.0	52.0' LT.	919.68	912.76 W; 912.86 S	INLET SPECIAL NO. 5
104	209+00.0	5.4' LT.	920.62	913.34 N; 913.44 S	INLET SPECIAL NO. 2
105	209+00.0	52.0' RT.	919.68	914.04 N	INLET SPECIAL NO. 5

PROFILE — SURVEYED, PLOTTED, BEARINGS CHECKED, NOTE BOOK, NO., STRUCTURE NOTATIONS CHKD



McClure Engineering Associates, Inc.

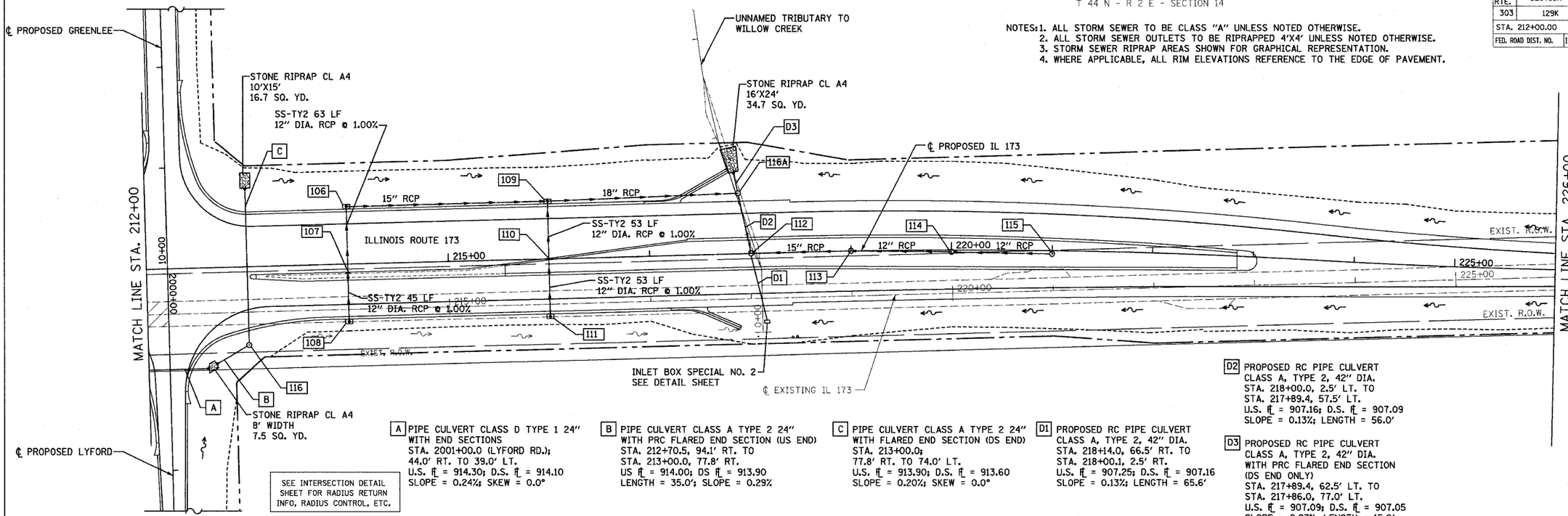
IL 173 DRAINAGE PLAN & PROFILE SHEETS
STA. 198+00 TO STA. 212+00

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	122
STA. 212+00.00	TO STA. 226+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

T 44 N - R 2 E - SECTION 14

NOTES: 1. ALL STORM SEWER TO BE CLASS "A" UNLESS NOTED OTHERWISE.
2. ALL STORM SEWER OUTLETS TO BE RIPRAPPED 4'X4' UNLESS NOTED OTHERWISE.
3. STORM SEWER RIPRAP AREAS SHOWN FOR GRAPHICAL REPRESENTATION.
4. WHERE APPLICABLE, ALL RIM ELEVATIONS REFERENCE TO THE EDGE OF PAVEMENT.



A PIPE CULVERT CLASS D TYPE 1 24" WITH END SECTIONS
STA. 2001+00.0 (LYFORD RD.); 44.0' RT. TO 39.0' LT.
U.S. ℄ = 914.30; D.S. ℄ = 914.10
SLOPE = 0.24%; SKEW = 0.0°

B PIPE CULVERT CLASS A TYPE 2 24" WITH PRC FLARED END SECTION (US END)
STA. 212+70.5, 94.1' RT. TO STA. 213+00.0, 77.8' RT.
US ℄ = 914.00; DS ℄ = 913.90
LENGTH = 35.0'; SLOPE = 0.29%

C PIPE CULVERT CLASS A TYPE 2 24" WITH FLARED END SECTION (DS END)
STA. 213+00.0; 77.8' RT. TO 74.0' LT.
U.S. ℄ = 913.90; D.S. ℄ = 913.60
SLOPE = 0.20%; SKEW = 0.0°

D1 PROPOSED RC PIPE CULVERT CLASS A, TYPE 2, 42" DIA.
STA. 218+14.0, 66.5' RT. TO STA. 218+00.1, 2.5' RT.
U.S. ℄ = 907.25; D.S. ℄ = 907.16
SLOPE = 0.13%; LENGTH = 65.6'

D2 PROPOSED RC PIPE CULVERT CLASS A, TYPE 2, 42" DIA.
STA. 218+00.0, 2.5' LT. TO STA. 217+89.4, 57.5' LT.
U.S. ℄ = 907.16; D.S. ℄ = 907.09
SLOPE = 0.13%; LENGTH = 56.0'

D3 PROPOSED RC PIPE CULVERT CLASS A, TYPE 2, 42" DIA. WITH PRC FLARED END SECTION (DS END ONLY)
STA. 217+89.4, 62.5' LT. TO STA. 217+86.0, 77.0' LT.
U.S. ℄ = 907.09; D.S. ℄ = 907.05
SLOPE = 0.27%; LENGTH = 15.0'

SEE INTERSECTION DETAIL SHEET FOR RADIUS RETURN INFO, RADIUS CONTROL, ETC.

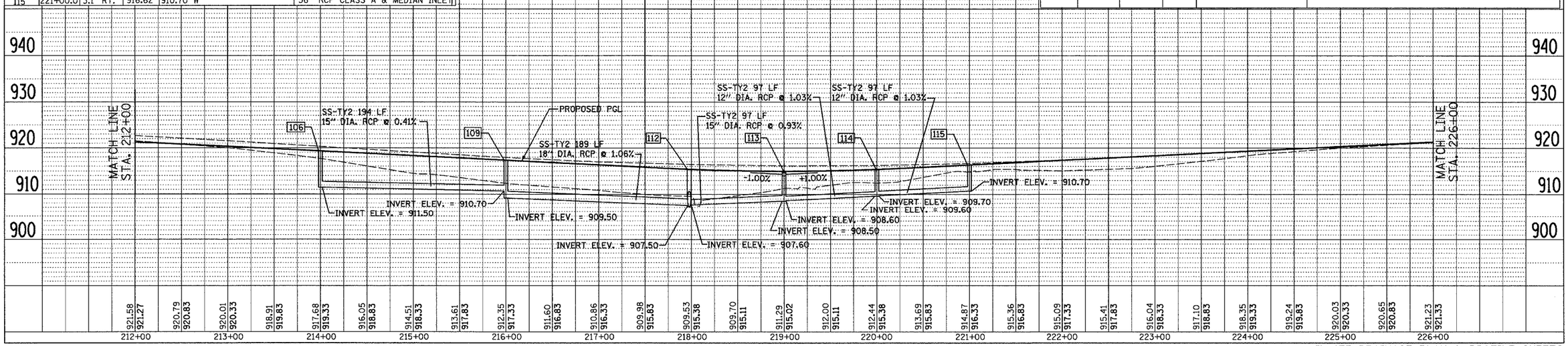
T 44 N - R 2 E - SECTION 23

N

0 50' 100'
1" = 50' (HORIZ.)
1" = 10' (VERT.)

STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
106	214+00.0	52.0' LT.	918.55	911.50 E; 911.86 S	INLET SPECIAL NO. 5
107	214+00.0	8.0' RT.	919.45	912.49 N; 912.59 S	INLET SPECIAL NO. 2
108	214+00.0	52.0' RT.	918.55	913.04 N	INLET SPECIAL NO. 5
109	216+00.0	52.0' LT.	916.55	909.50 E; 910.70 W; 909.86 S	INLET SPECIAL NO. 5
110	216+00.0	0.6' LT.	917.56	910.39 N; 910.49 S	INLET SPECIAL NO. 2
111	216+00.0	52.0' RT.	916.55	911.02 N	INLET SPECIAL NO. 5
112	218+00.8	0.0'	915.71	907.50 W	MH TY A 5'-DIA. W/ TY 1 F & OL
113	219+00.0	0.0'	915.32	908.50 W; 908.60 E	36" RCP CLASS A & MEDIAN INLET
114	220+00.0	1.8' RT.	915.67	909.60 W; 909.70 E	36" RCP CLASS A & MEDIAN INLET
115	221+00.0	3.1' RT.	916.62	910.70 W	36" RCP CLASS A & MEDIAN INLET

STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
116	213+00.0	77.8' RT.	922.63	913.90 SW & N	36" RCP CLASS A & MEDIAN INLET
116A	217+89.4	60.0' LT.	913.32	907.14 S & N; 907.50 W	MH 6'-DIA. TYPE A WITH TYPE 1 FR & CL



McClure Engineering Associates, Inc.

IL 173 DRAINAGE PLAN & PROFILE SHEETS
STA. 212+00 TO STA. 226+00

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	123
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER
- STONE RIPRAP CLASS A4
- EROSION CONTROL BLANKET & SEEDING, CLASS 2A - SALT TOLERANT
- SEEDING, CLASS 2A - SALT TOLERANT & MULCH METHOD 2
- SEDIMENT BASIN

T 44 N - R 2 E - SECTION 14

MATCH LINE STA. 818+00

MATCH LINE STA. 4017+00

PROPOSED CASING PIPE SEE ROADWAY PLANS FOR DETAILS

℄ RAMP C

PROPOSED CASING PIPE SEE ROADWAY PLANS FOR DETAILS

PROPOSED CONSTRUCTION LIMITS (TYP.)

℄ RAMP B

℄ RAMP A

℄ F.A.I. 90 (I-90)

EXIST. R.O.W. (TYP.)

PROP. R.O.W. (TYP.)

PROP. A/C

EXIST. R.O.W.

PROP. A/C

PROP. R.O.W. (TYP.)

PROP. A/C

PROP. A/C

MATCH LINE STA. 173+00

MATCH LINE STA. 204+00

EXIST. R.O.W.

PROPOSED BIKE PATH

℄ IL ROUTE 173

PROPOSED CONSTRUCTION LIMITS (TYP.)

℄ RAMP D

MATCH LINE STA. 1318+00

MATCH LINE STA. 5036+00

T 44 N - R 2 E - SECTION 14

N

0 100' 200'

1" = 100' SCALE

NOTES:

1. CLASS 4B SEEDING SHALL BE PROVIDED IN ADDITION TO THE CLASS 2A SEEDING WITHIN THE AREA OF THE PROPOSED SEDIMENT BASIN. A QUANTITY OF 1 ACRE OF CLASS 4B SEEDING HAS BEEN PROVIDED FOR THIS WORK.

2. CLASS 4A SEEDING SHALL BE PROVIDED IN ADDITION TO THE CLASS 2A SEEDING WITHIN THE AREA OF THE NORTHWEST INFIELD AREA BOUNDED BY RAMP B, I-90, & PROPOSED IL ROUTE 173. A QUANTITY OF 15 ACRES OF CLASS 4A SEEDING HAS BEEN PROVIDED FOR THIS WORK. THE AREA WITHIN THE INFIELD TO BE SEEDED WITH CLASS 4A SEEDING SHALL CONSIST OF THE AREA NOT COVERED BY EROSION CONTROL BLANKET AS SHOWN.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

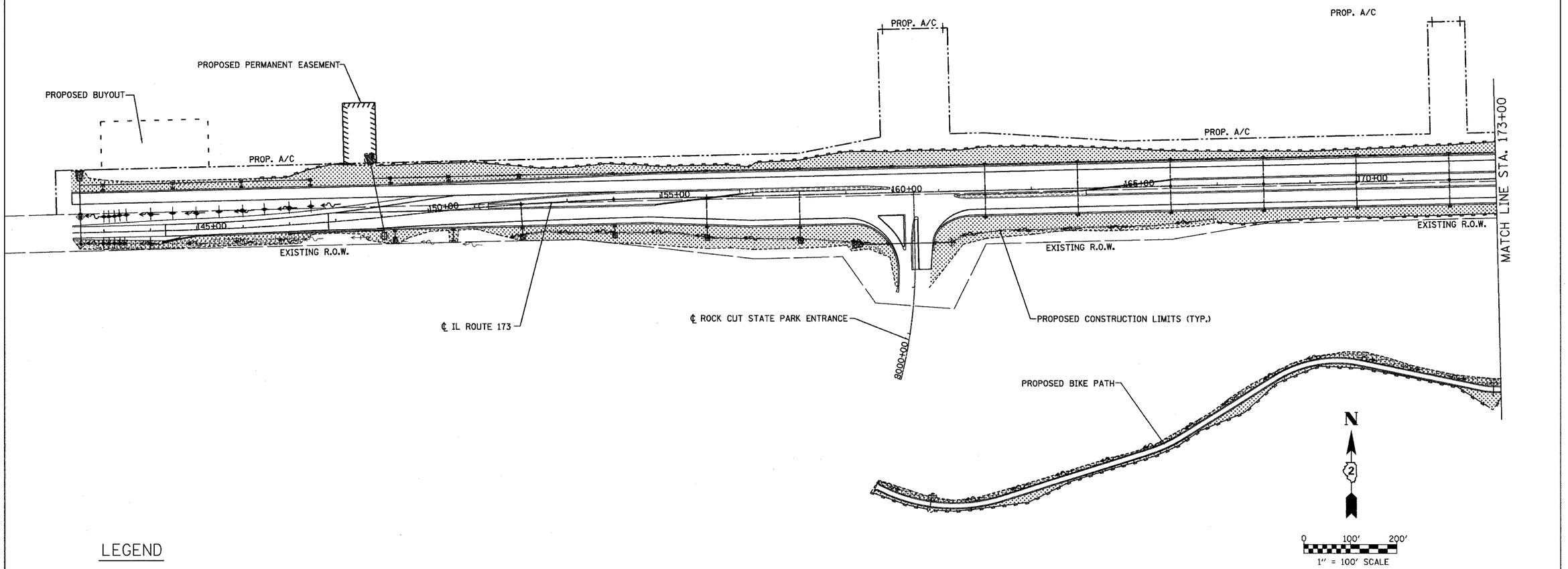
SCALE: 1" = 100' DRAWN BY HD

DATE SEPTEMBER 14, 2005 CHECKED BY FML

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	124
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

T 44 N - R 2 E - SECTION 14



LEGEND

- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER
- STONE RIPRAP CLASS A4
- EROSION CONTROL BLANKET & SEEDING, CLASS 2A - SALT TOLERANT
- SEEDING, CLASS 2A - SALT TOLERANT & MULCH METHOD 2

T 44 N - R 2 E - SECTION 14

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

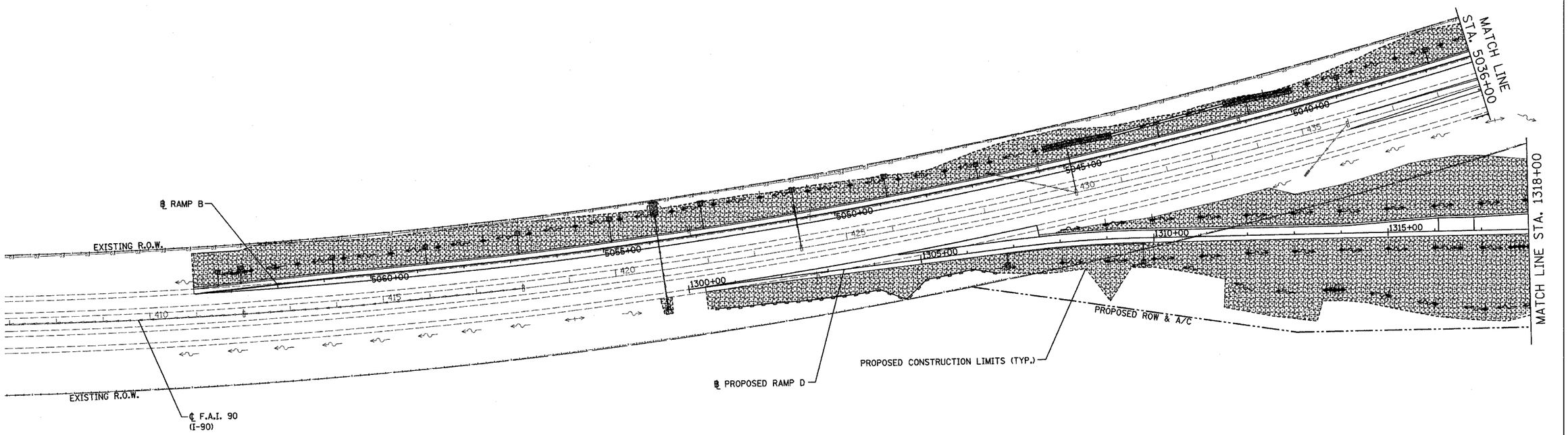
SCALE: 1" = 100' DRAWN BY HD

DATE SEPTEMBER 14, 2005 CHECKED BY FML

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	125
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

T 44 N - R 2 E - SECTION 14



LEGEND

- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER
- STONE RIPRAP CLASS A4
- EROSION CONTROL BLANKET & SEEDING, CLASS 2A - SALT TOLERANT
- SEEDING, CLASS 2A - SALT TOLERANT & MULCH METHOD 2

N

0 100′ 200′

1″ = 100′ SCALE

T 44 N - R 2 E - SECTION 14

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1″ = 100′ DRAWN BY HD

DATE SEPTEMBER 14, 2005 CHECKED BY FML

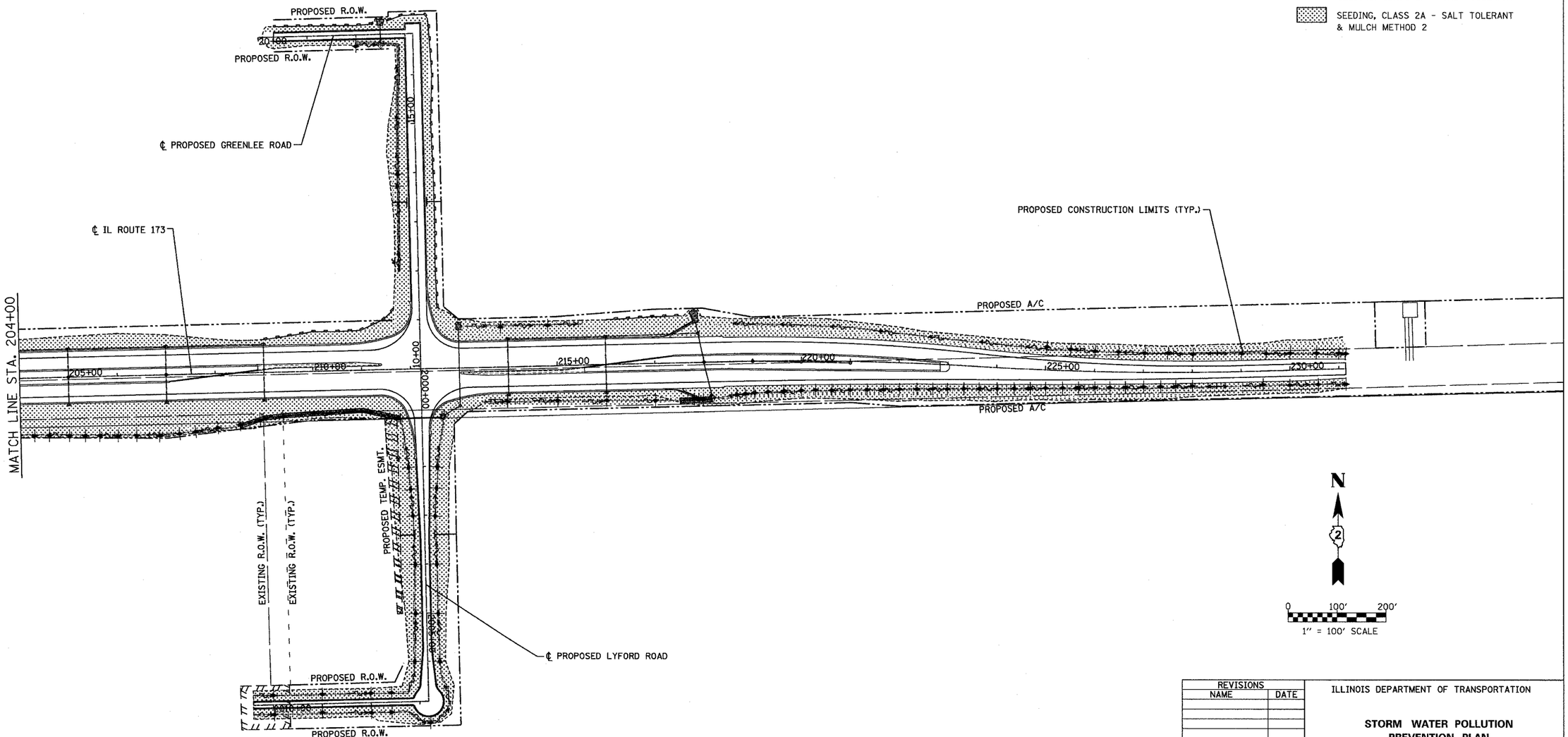
CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	126
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

T 44 N - R 2 E - SECTION 14

LEGEND

- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER
- STONE RIPRAP CLASS A4
- EROSION CONTROL BLANKET & SEEDING, CLASS 2A - SALT TOLERANT
- SEEDING, CLASS 2A - SALT TOLERANT & MULCH METHOD 2



T 44 N - R 2 E - SECTION 14

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1" = 100' DRAWN BY HD

DATE SEPTEMBER 14, 2005 CHECKED BY FML

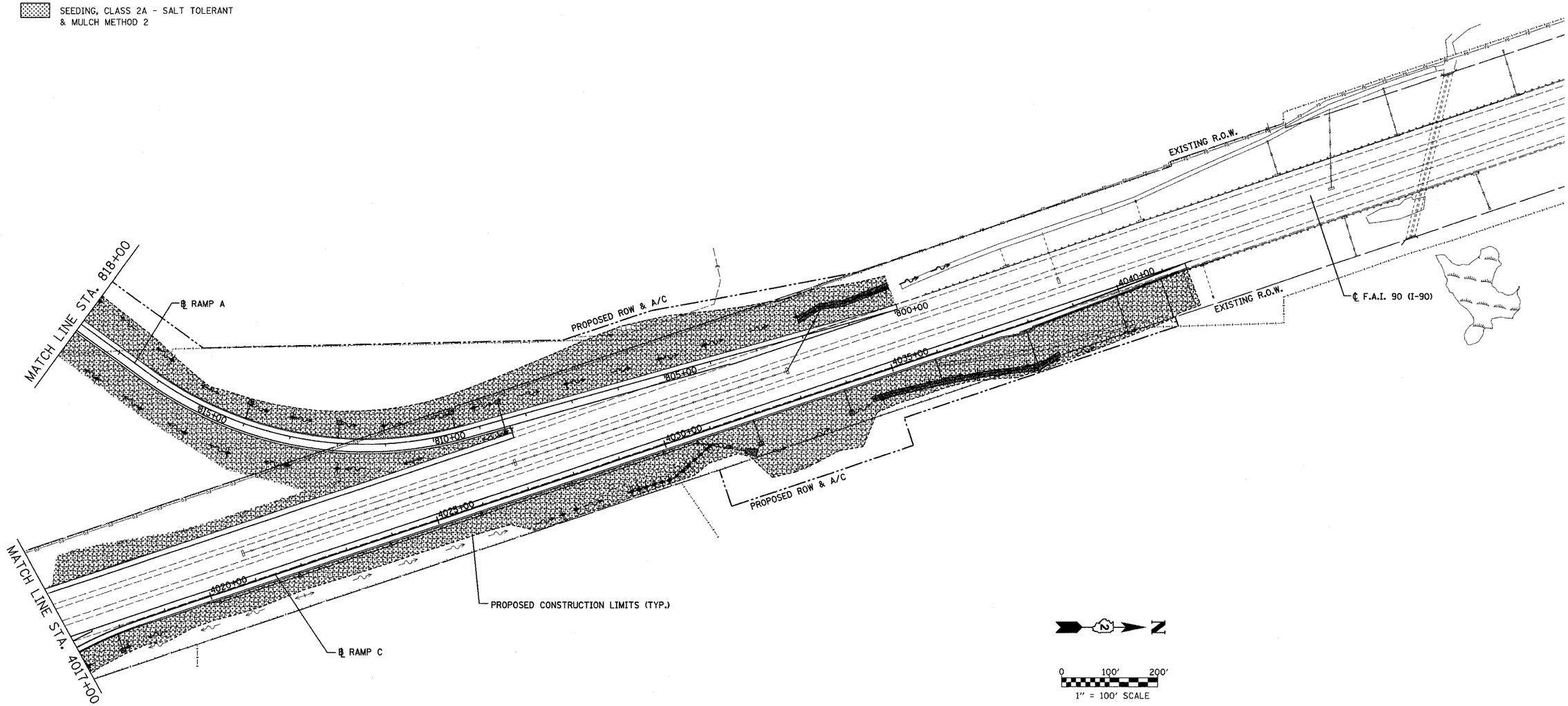
CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	127
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER
- STONE RIPRAP CLASS A4
- EROSION CONTROL BLANKET & SEEDING, CLASS 2A - SALT TOLERANT
- SEEDING, CLASS 2A - SALT TOLERANT & MULCH METHOD 2

T 44 N - R 2 E - SECTION 14



N

0 100′ 200′

1″ = 100′ SCALE

T 44 N - R 2 E - SECTION 14

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1″ = 100′ DRAWN BY HD

DATE SEPTEMBER 14, 2005 CHECKED BY FML

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	128
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THIS PLAN. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING (INCLUDING STORM WATER DISCHARGES FROM DEDICATED ASPHALT PLANTS AND DEDICATED CONCRETE PLANTS) ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES.

THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENT THIS PLAN.

SITE DESCRIPTION
DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROPOSED PROJECT CONSISTS OF THE DEVELOPMENT OF A FULL ACCESS INTERCHANGE AT IL ROUTE 173 AND I-90 IN LOVES PARK NEAR ROCKFORD, ILLINOIS.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH DISTURB EARTH AND LEAD TO POSSIBLE EROSION FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. TREE REMOVAL WILL BE COMPLETED TO REMOVE AN AREA OF 3.3 ACRES AND 151 TREES.
2. EMBANKMENT WILL BE COMPLETED TO FILL AREAS TO RAISE THE EXISTING GROUND ELEVATION TO MEET THE PROPOSED ROADWAY FORESLOPE AND BACKSLOPE.
3. EMBANKMENT WILL BE COMPLETED TO CONTRUCT BERMS AND EMERGENCY SPILLWAYS FOR PROPOSED DETENTION PONDS.
4. EXCAVATION WILL BE COMPLETED ALONG THE MAJORITY OF THE PROJECT TO GRADE OUT FOR PROPOSED ROADWAY DITCHES AND WATERWAYS.
5. EXCAVATION WILL ALSO BE COMPLETED IN PROPOSED CUT SECTIONS TO LOWER THE EXISTING GROUND ELEVATION TO MEET THE PROPOSED ROADWAY GRADE/VERTICAL ALIGNMENT.
6. DRAINAGE STRUCTURES WILL BE INSTALLED BEFORE AND/OR DURING THE CONSTRUCTION OF THE EXCAVATION AND EMBANKMENT TO MAINTAIN ACCEPTABLE DRAINAGE.
7. PLACEMENT, MAINTENANCE, REMOVAL, AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, TEMPORARY SEEDING, ETC.
8. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP DITCH LINING, RIPRAP STILLING BASINS, EXCELSIOR BLANKET, SEEDING, ETC.
9. FINAL GRADING, CLEAN UP, AND OTHER MISCELLANEOUS ITEMS.
10. PAVING OPERATIONS.

THIS PROJECT WILL BE CONSTRUCTED AS SHOWN IN THE "STAGING PLANS."

AREA OF CONSTRUCTION SITE:

1. TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT): 127.18 ACRES
2. PROPOSED R.O.W. (TOTAL PARCEL AREA): 82.042 ACRES
3. DISTURBED BY EXCAVATION (E.O.P. TO CONSTRUCTION LIMIT): 77.87 ACRES

DRAINAGE TRIBUTARIES RECEIVING WATER FROM THIS CONSTRUCTION SITE:

1. MCDONALD CREEK
2. UNNAMED TRIBUTARY TO WILLOW CREEK

OTHER REPORTS, STUDIES AND PLANS WHICH AIDE IN THE DEVELOPMENT OF THIS STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. ESTIMATED RUN-OFF COEFFICIENTS ARE CONTAINED IN THE PROJECT DRAINAGE STUDY WHICH WERE UTILIZED FOR PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.
2. INFORMATION ON SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM FIELD REVIEWS AND SOIL BORINGS WHICH WERE UTILIZED FOR PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.
3. SITE MAPS INDICATING DRAINAGE PATTERNS WERE EVALUATED. APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES, USGS DRAINAGE MAPS, AND PROJECT PLAN DOCUMENTS WERE ALSO UTILIZED FOR PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL
DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION

1. THE AREA BETWEEN THE PROPOSED RIGHT-OF-WAY BOUNDARIES AND LIMITS OF THE PROJECT WILL BE IMPROVED AND MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE AREA. REDUCING WATER FLOW BY TEMPORARY DIVERSION AND MINIMIZING SILTATION INTO THE CONSTRUCTION ZONE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION AND ACT AS AN EROSION BARRIER. WORK AT THE BEGINNING OF CONSTRUCTION WILL CONSIST OF THE FOLLOWING:
   - (A) PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK. AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION SLOPE LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM MOWING, BRUSH CUTTING, TREE REMOVAL, AND OTHER ACTIVITIES WHICH WOULD BE DETRIMENTAL TO THEIR MAINTENANCE AND DEVELOPMENT.
   - (B) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.
   - (C) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
   - (D) IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED IN CERTAIN AREAS WHICH ARE HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER, THE AREAS SHALL BE TEMPORARILY SEEDED WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
   - (E) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDING CAN BE COMPLETED.
3. A THIRD BENEFIT OF THESE AREAS IS THAT THEY WILL BEGIN TO PROVIDE A SCREEN AND BUFFER. THEY WILL HELP PROTECT THE CONSTRUCTION SITE FROM WINDS AND EXCESS SUN AND MITIGATE CONSTRUCTION NOISE AND DUST.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING ROADWAY CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESIGNATED ON THE PLANS OR DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
   - (A) AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.
   - (B) WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE HIGH FLOWS OF WATER AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
   - (C) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
   - (D) AS THE CONTRACTOR CONSTRUCTS A PORTION OF ROADWAY IN A FILL SECTION, HE/SHE SHALL FOLLOW THE FOLLOWING STEPS AND AS DIRECTED BY THE ENGINEER:
     - I. PLACE TEMPORARY EROSION CONTROL SYSTEMS AT LOCATIONS WHERE WATER LEAVES AND RETURNS FROM THE CONSTRUCTION ZONE.
     - II. TEMPORARILY SEED HIGHLY ERODIBLE AREAS OUTSIDE THE CONSTRUCTION SLOPE LIMITS.
     - III. CONSTRUCT DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
     - IV. CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE AT THE SAME TIME PLACE PERMANENT EROSION CONTROL SUCH AS RIPRAP DITCH LINING AND CONDUCT FINAL SHAPING TO THE SLOPES.
   - (E) EXCAVATED AREAS AND EMBANKMENTS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADED. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN DAYS.
   - (F) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUN-OFF IN COMPLIANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
   - (G) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER LARGE RAINS DURING THE WINTER SHUT-DOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
   - (H) SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
   - (I) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE TEMPORARY EROSION CONTROL SYSTEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH A PROPER STAND.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.

MAINTENANCE AFTER CONSTRUCTION:

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE IS RECEIVED AT THE FINAL INSPECTION.
2. AREAS WILL BE INSPECTED ON A REGULAR BASIS BY IDOT DISTRICT 2 BUREAU OF OPERATIONS.
3. MAINTENANCE CREWS WILL PERFORM REGULAR MOWINGS TO AID IN KEEPING WEEDS DOWN AND ESTABLISHING A GOOD ROADSIDE SEED STAND.
4. MAINTENANCE CREWS WILL ALSO AID IN ANY DITCH LINING MAINTENANCE OR IN ANY DRAINAGE PROBLEMS.
5. ALL MAINTENANCE WILL BE CONDUCTED AT TIMES WHEN WEATHER CONDITIONS WILL NOT CAUSE SITE DAMAGE.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: VERT. N/A HORIZ. N/A — DRAWN BY HD

DATE SEPTEMBER 14, 2005 — CHECKED BY FML

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	129
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10_____, issued by the Illinois Environmental Protection Agency on _____.

Route: FAP ROUTE 303/FAI-90 Marked: IL ROUTE 173/I-90

Section: 129K Project No.: _____

County: WINNEBAGO Contract No.: _____

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Signature_____ Date_____

Title_____

Name of Firm_____

Street Address_____

City, State, Zip_____

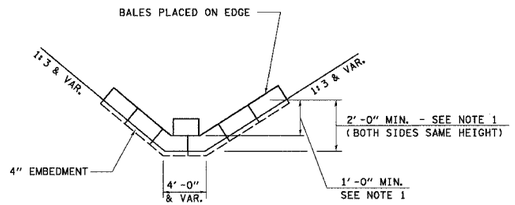
Phone Number_____

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.

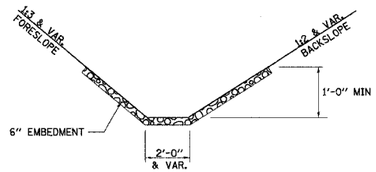
DOCUMENTATION:

1. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4.b. SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G. OF THE GENERAL PERMIT.
2. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONTRACT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL COMPLETE AND FILE AN "INCIDENT OF NONCOMPLIANCE (ION)" REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI.G. OF THE GENERAL PERMIT. THE REPORT OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276
SPRINGFIELD, IL 62794-9276
ATTN: COMPLIANCE ASSURANCE SECTION



HAY OR STRAW BALE TEMPORARY DITCH CHECK
(TYPICAL)



STONE RIPRAP DITCH LINING
(TYPICAL)

NOTE 1: BALES SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 1' OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE BALES.

NOTE 2: ENDS SHALL BE TIED INTO SLOPES.

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

ITEM	SYMBOL
TEMPORARY DITCH CHECKS (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION)	
INLET PIPE PROTECTION (I&PP) (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION)	
EROSION CONTROL FENCE	
PERIMETER EROSION BARRIER	
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	
RIPRAP	
EROSION CONTROL BLANKET	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	* ITEM *
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	ITEM

GENERAL NOTES:

ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED ON THE RESPECTIVE EROSION CONTROL PAY ITEM.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED FOR TEMPORARY EROSION CONTROL SEEDING PURPOSES:

25000350	SEEDING, CLASS 7	85 ACRES
25000400	NITROGEN FERTILIZER NUTRIENT	7,650 POUNDS
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	7,650 POUNDS
25000600	POTASSIUM FERTILIZER NUTRIENT	7,650 POUNDS
25100115	MULCH, METHOD 2	85 ACRES

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED FOR THE CONTRACTOR TO USE AT HIS BORROW/WASTE/USE SITES:

28000400	PERIMETER EROSION BARRIER	3,000 FEET

REVISIONS NAME	DATE

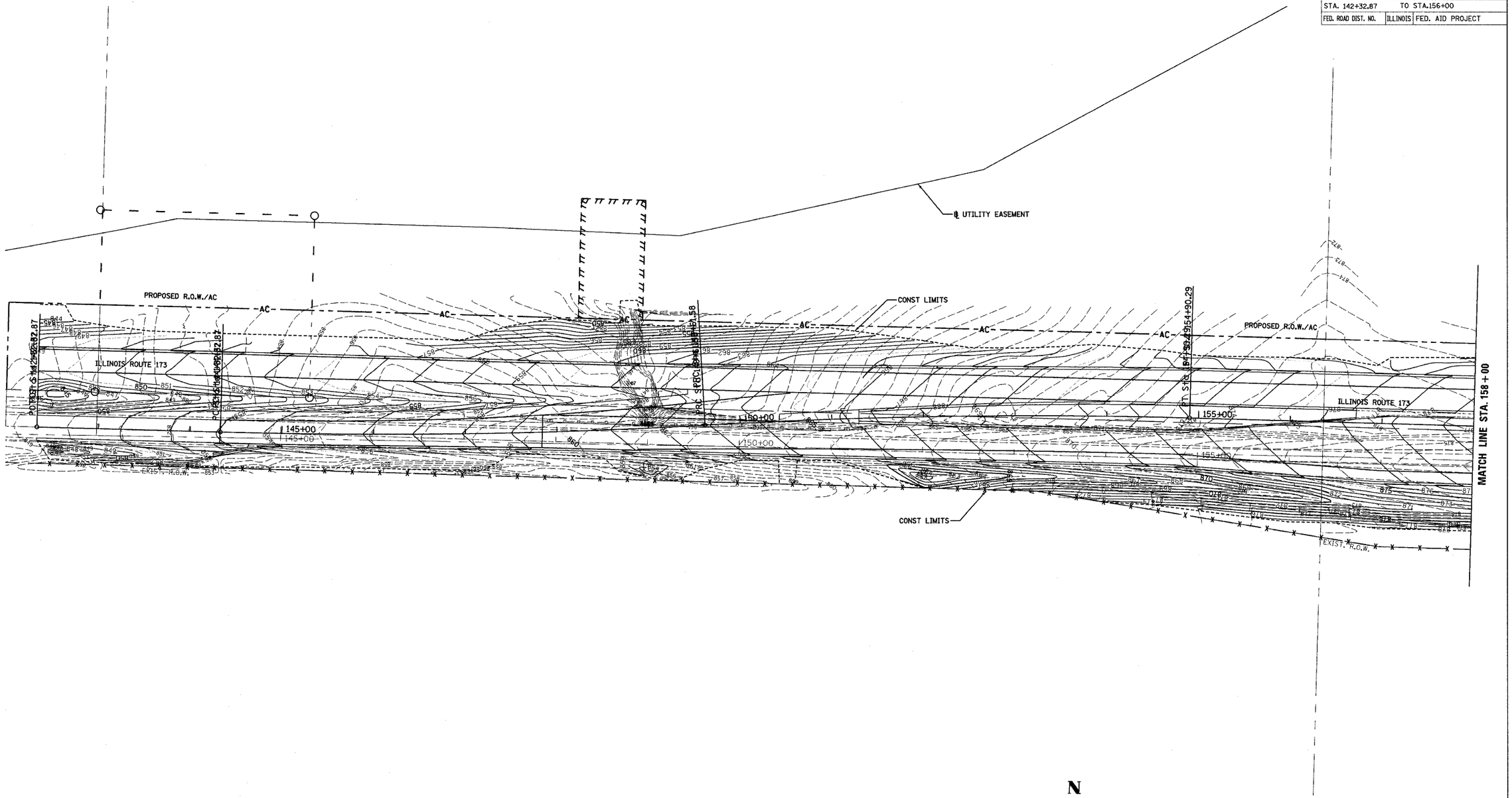
ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: VERT. N/A HORIZ. N/A DRAWN BY HD

DATE SEPTEMBER 14, 2005 CHECKED BY FML

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	130
STA. 142+32.87		TO STA.156+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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0 50′ 100′

1″ = 50′ (HORIZ.)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERALL CONTOUR PLAN
IL 173

SCALE: VERT.
HORIZ.

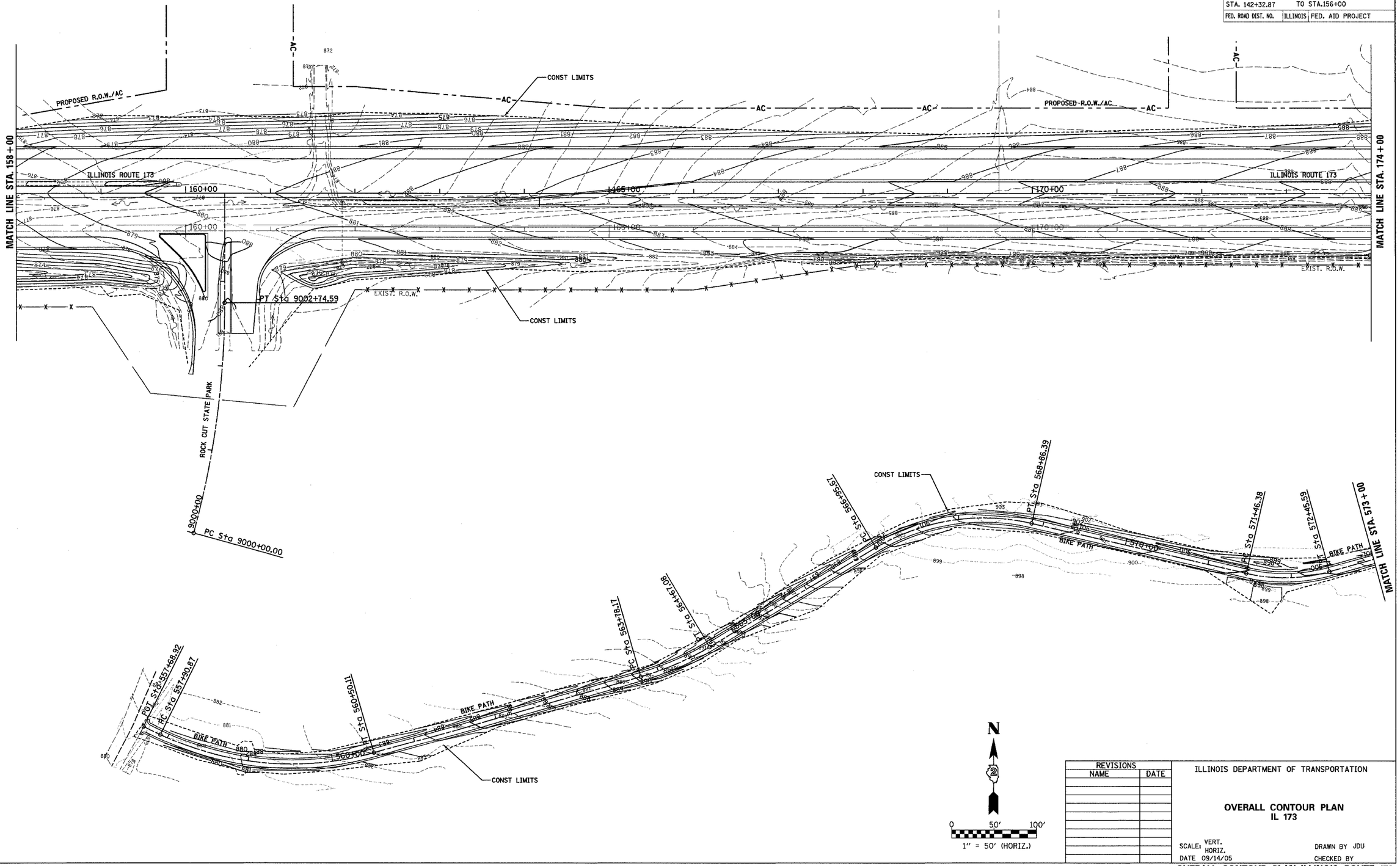
DRAWN BY JDU

DATE 09/14/05

CHECKED BY

OVERALL CONTOUR PLAN, ILLINOIS ROUTE 173, STA. 142+32.87 TO STA. 156+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	131
STA. 142+32.87		TO STA.156+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERALL CONTOUR PLAN
IL 173

SCALE: VERT.
HORIZ.
DATE 09/14/05

DRAWN BY JDU
CHECKED BY

OVERALL CONTOUR PLAN, ILLINOIS ROUTE 173, STA. STA. 156+00 TO 174+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	132
STA. 142+32.87		TO STA.156+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA. 828+00

MATCH LINE STA. 5004+00

CONST LIMITS

RAMP "A"

RAMP "B"

PROPOSED R.O.W./AC

ILLINOIS ROUTE 173

EXIST. R.O.W.

MATCH LINE STA. 174+00

MATCH LINE STA. 190+00

MATCH LINE STA. 573+00

MATCH LINE STA. 589+00

BC Sta 574+17.61

EC Sta 574+74.54

BIKE PATH

PC Sta 580+98.40

PT Sta 581+54.64

PC Sta 586+50.61

N

0 50′ 100′

1″ = 50′ (HORIZ.)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERALL CONTOUR PLAN
IL 173

SCALE: VERT.
HORIZ.
DATE 09/14/05

DRAWN BY JDU
CHECKED BY

OVERALL CONTOUR PLAN, ILLINOIS ROUTE 173, STA. STA. 156+00 TO 174+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	133
STA. 142+32.87		TO STA.156+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA. 5027+00

MATCH LINE STA. 4003+00

MATCH LINE STA. 190+00

MATCH LINE STA. 206+00

MATCH LINE STA. 589+00

MATCH LINE STA. 5036+00

MATCH LINE STA. 1320+00

EXIST. R.O.W.

PROPOSED R.O.W./AC

CONST LIMITS

RAMP "C"

RAMP "D"

PC Sta 4002+51.28

PC Sta 5030+07.30

PC Sta 5033+78.50

PT Sta 589+83.05

590+46.92

ILLINOIS ROUTE 173

190+00

195+00

200+00

205+00

SOUTHBOUND I-90

NORTHBOUND I-90

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0 50' 100'

1" = 50' (HORIZ.)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERALL CONTOUR PLAN
IL 173

SCALE: VERT.
HORIZ.

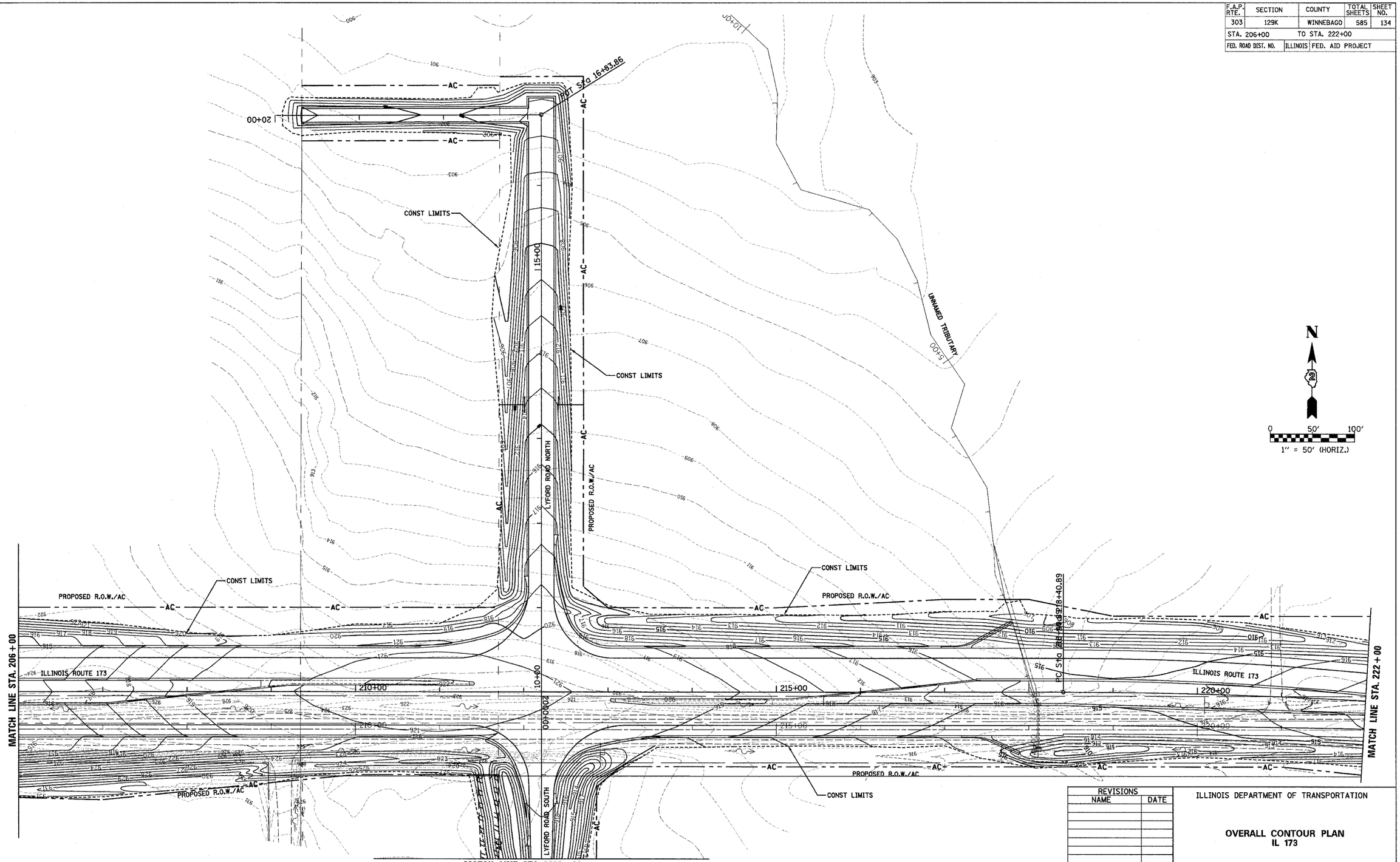
DRAWN BY JDU

DATE 09/14/05

CHECKED BY

OVERALL CONTOUR PLAN, ILLINOIS ROUTE 173, STA. STA. 190+00 TO 206+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	134
STA. 206+00		TO STA. 222+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

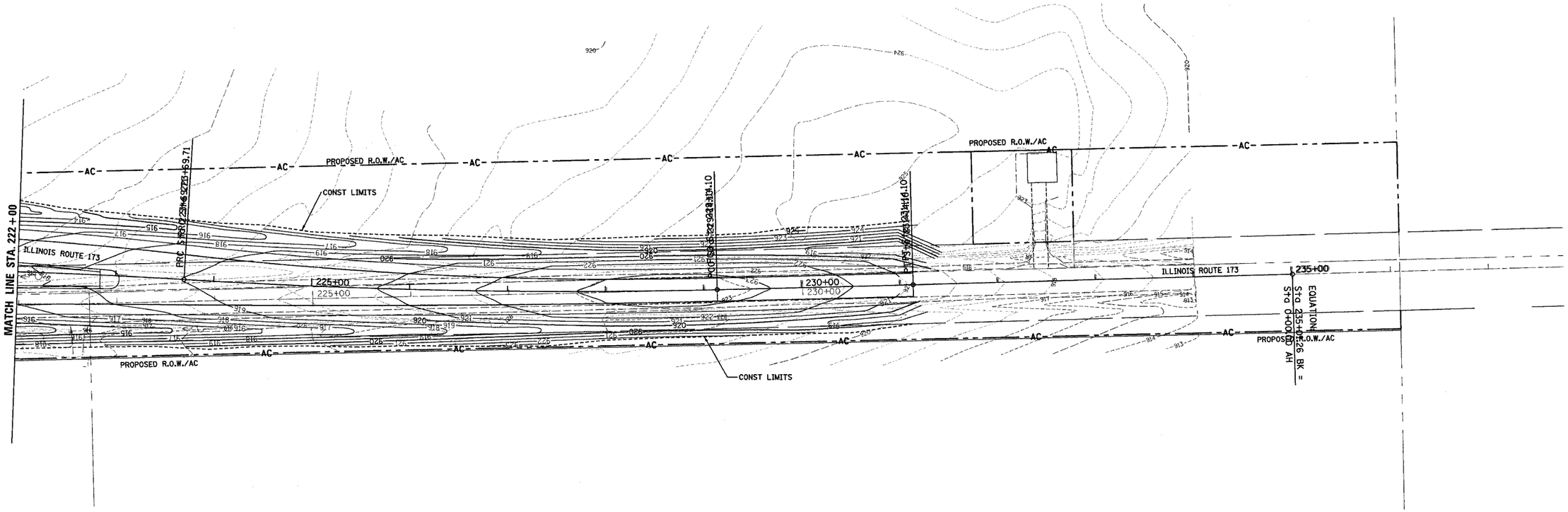
OVERALL CONTOUR PLAN
IL 173

SCALE: VERT.
HORIZ.
DATE 09/14/05

DRAWN BY JDU
CHECKED BY

OVERALL CONTOUR PLAN, ILLINOIS ROUTE 173, STA. STA. 206+00 TO 222+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	135
STA. 222+00		TO STA. 231+14		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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0 50′ 100′

1″ = 50′ (HORIZ.)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

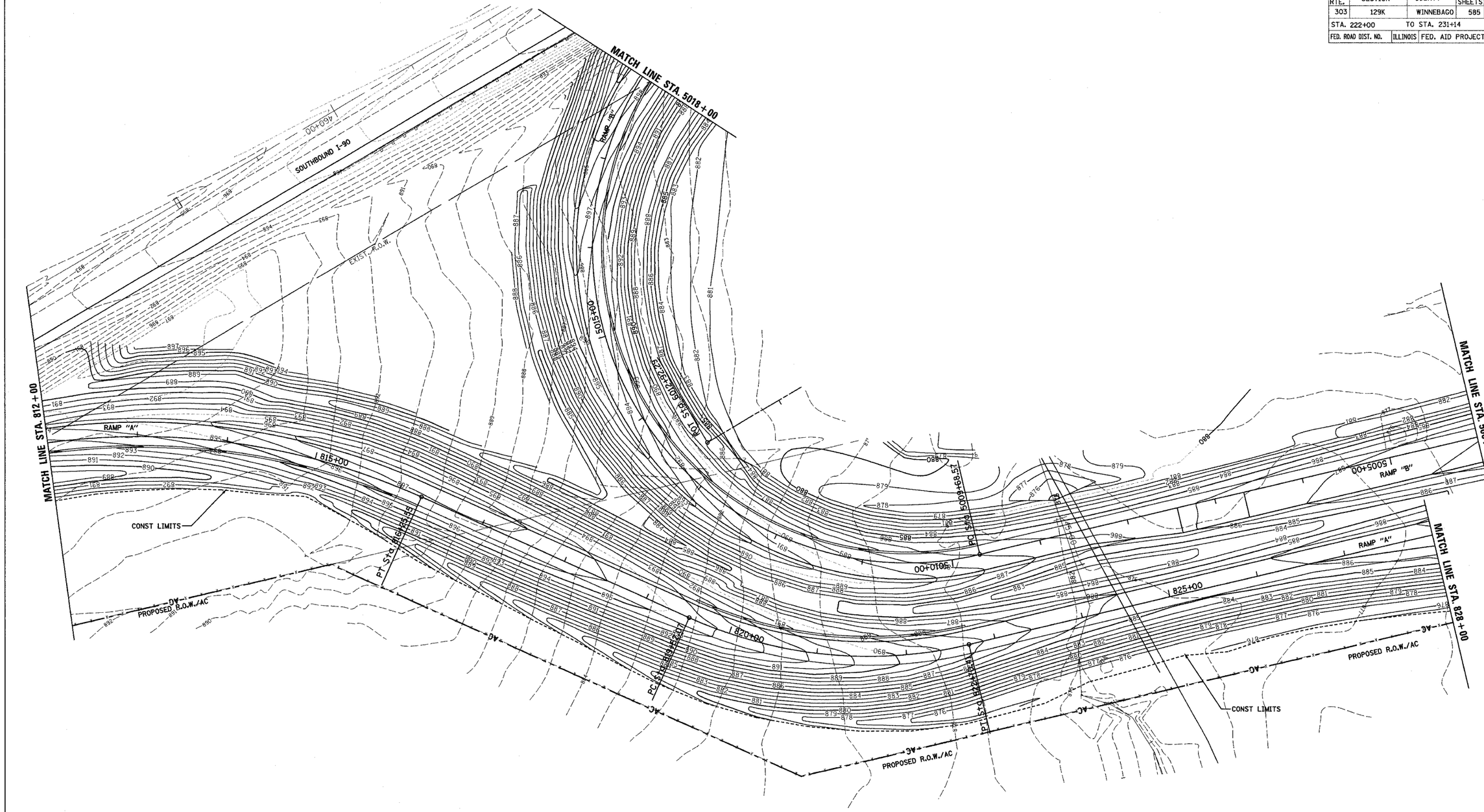
OVERALL CONTOUR PLAN
IL 173

SCALE: VERT.
HORIZ.
DATE 09/14/05

DRAWN BY JDU
CHECKED BY

OVERALL CONTOUR PLAN, ILLINOIS ROUTE 173, STA. STA. 222+00 TO 231+14

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	136
STA. 222+00		TO STA. 231+14		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



0 50′ 100′

1″ = 50′ (HORIZ.)

REVISIONS NAME	DATE

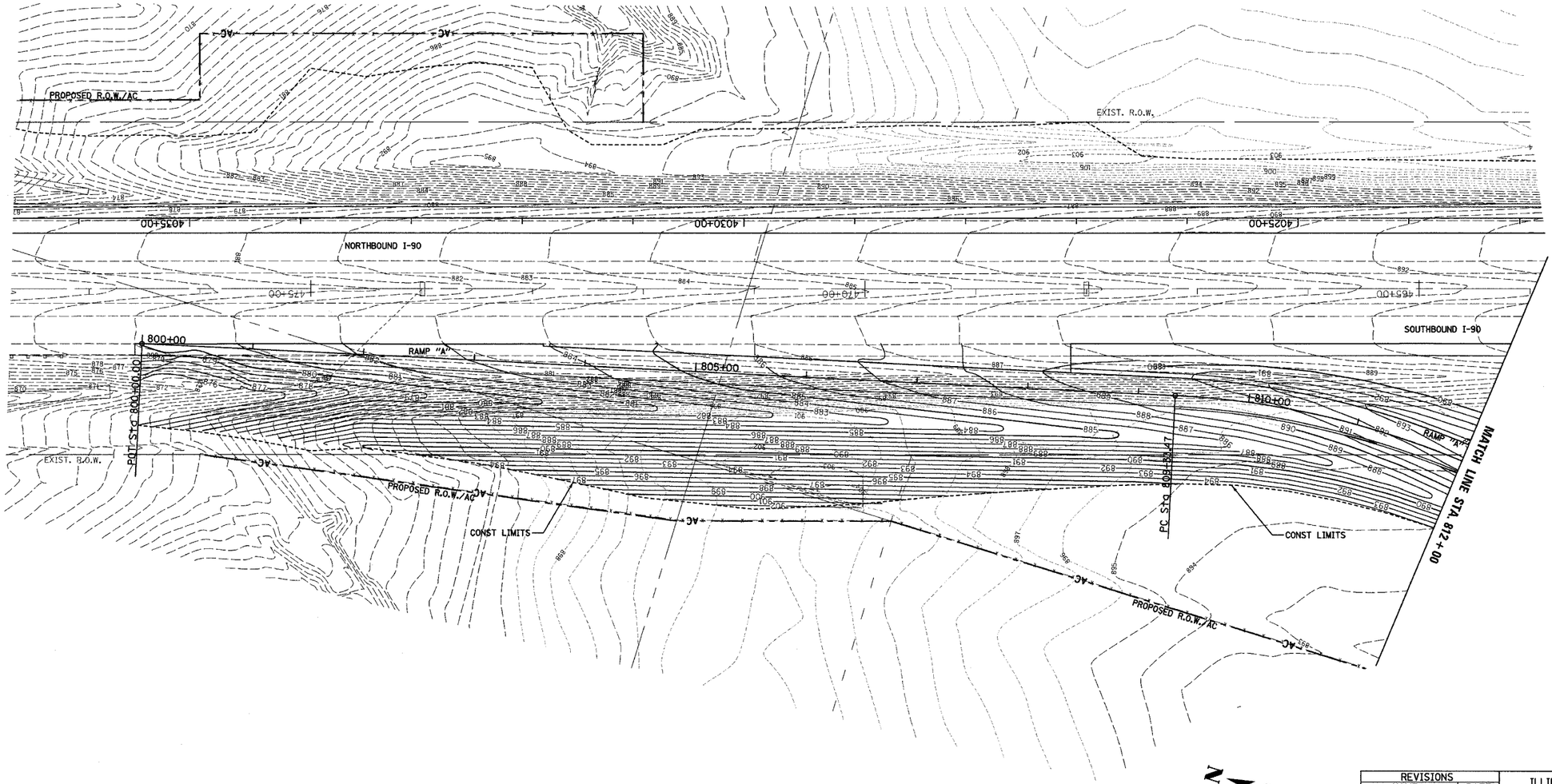
ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERALL CONTOUR PLAN
RAMP "A" – STA. 812+00 TO STA. 828+00
RAMP "B" – STA. 5004+00 TO STA. 5018+00

SCALE: VERT.
HORIZ.
DRAWN BY JDU
DATE 09/14/05
CHECKED BY

OVERALL CONTOUR PLAN, RAMPS "A" & "B"
STA. 812+00 TO STA. 828+00, STA. 5004+00 TO STA. 5018+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	137
STA. 800+00		TO STA. 812+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REVISIONS NAME	DATE

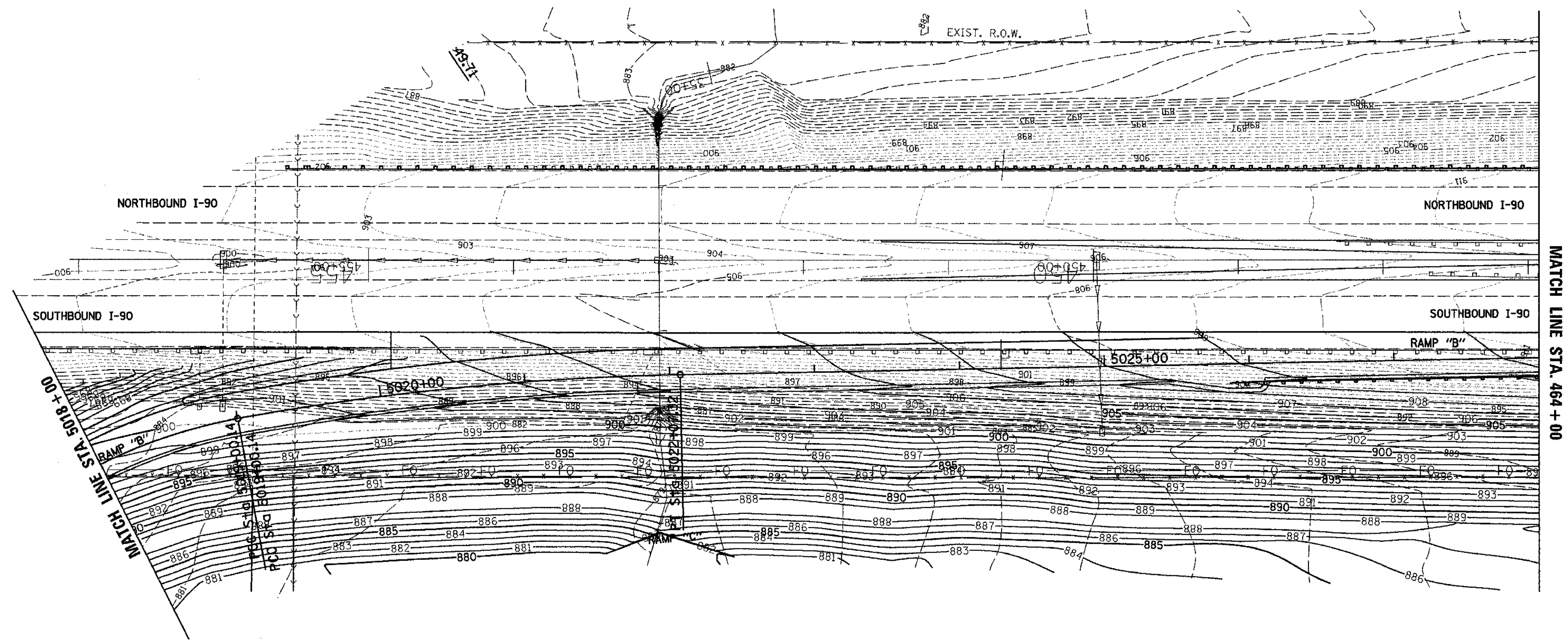
ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERALL CONTOUR PLAN
RAMP "A" – STA. 800+00 TO STA. 812+00

SCALE: VERT.
HORIZ.
DATE 09/14/05

DRAWN BY JDU
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	138
STA. 5018+00	TO STA. 5027+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



0 50′ 100′
1″ = 50′ (HORIZ.)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

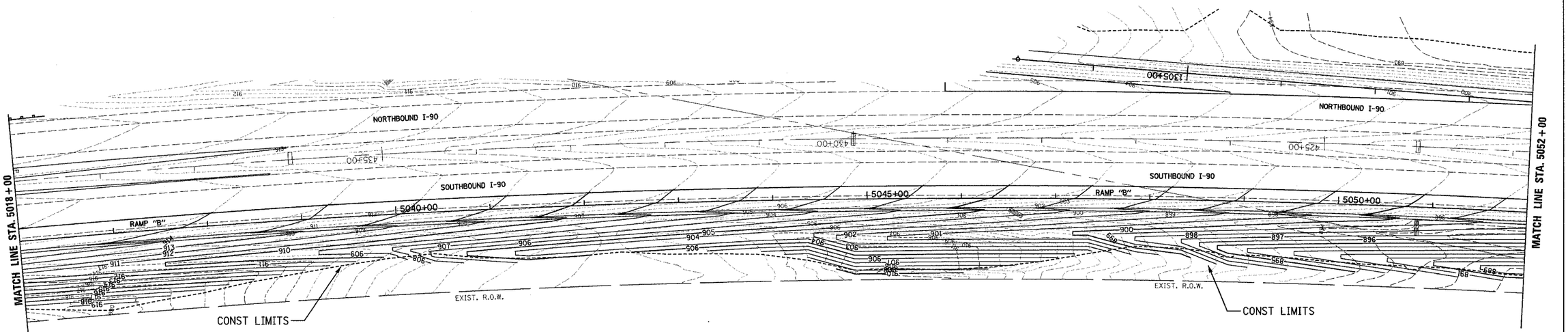
OVERALL CONTOUR PLAN
RAMP "B" – STA. 5018+00 TO STA. 5027+00

SCALE: VERT.
HORIZ.
DATE 09/14/05

DRAWN BY JDU
CHECKED BY

OVERALL CONTOUR PLAN, RAMP "B"
STA. 5018+00 TO STA. 5027+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	139
STA. 5018+00		TO STA. 5027+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



0 50′ 100′

1″ = 50′ (HORIZ.)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERALL CONTOUR PLAN
RAMP "B" – STA. 5036+00 TO STA. 5052+00

SCALE: VERT.
HORIZ.

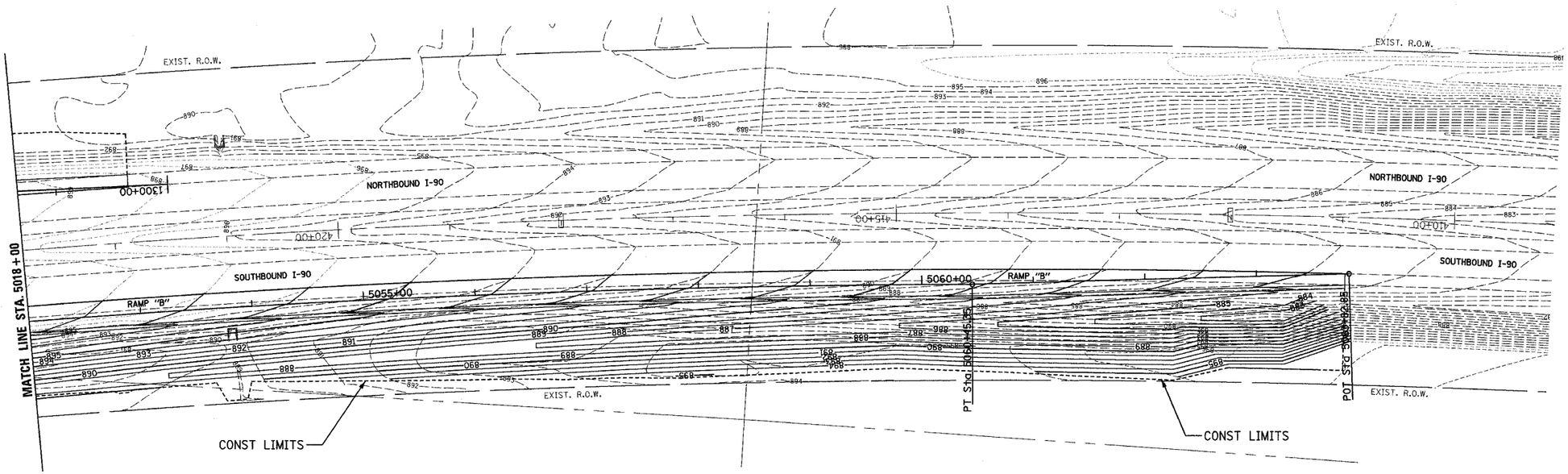
DRAWN BY JDU

DATE 09/14/05

CHECKED BY

OVERALL CONTOUR PLAN, RAMP "B"
STA. 5036+00 TO STA. 5052+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	140
STA. 5018+00		TO STA. 5027+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



0 50′ 100′

1″ = 50′ (HORIZ.)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERALL CONTOUR PLAN
RAMP "B"–STA. 5052+00 TO STA. 5063+82.85

SCALE: VERT.
HORIZ.

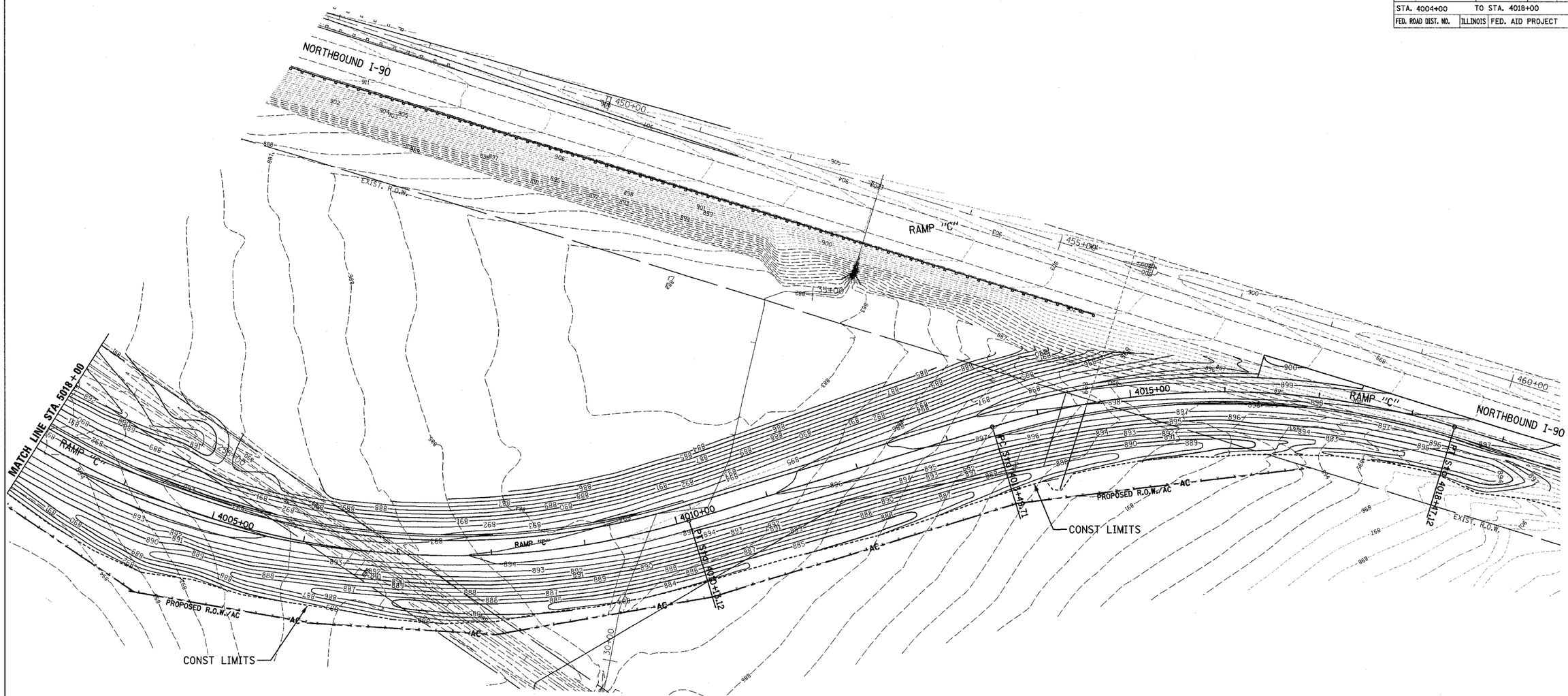
DATE 09/14/05

DRAWN BY JDU

CHECKED BY

OVERALL CONTOUR PLAN, RAMP "B"
STA. 5052+00 TO STA. 5063+82.85

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	141
STA. 4004+00		TO STA. 4018+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



0 50′ 100′

1″ = 50′ (HORIZ.)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERALL CONTOUR PLAN
RAMP "C" –
STA. 4003+00+00 TO STA. 4018+00

SCALE: VERT.
HORIZ.
DRAWN BY JDU
DATE 09/14/05
CHECKED BY

OVERALL CONTOUR PLAN, RAMP "C"
STA. 4004+00 TO STA. 4018+00

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	142
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROPOSED RC PIPE CULVERT
78" DIA. WITH CAST-IN-PLACE
REINFORCED CONCRETE
END SECTIONS 78"
STA. 4009+69.6, 41.5' RT. TO
STA. 4010+57.1, 52.7' LT.
U.S. ℄ = 883.65; D.S. ℄ = 883.20
SLOPE = 0.35%; SKEW = 43.7° LT.

℄ INTERSTATE 90

℄ IL ROUTE 173

℄ RAMP C

PROPOSED ROW

PROPOSED ROW & R/C

SCALE : 1" = 50'

0 25 50 100

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

NE INFIELD GRADING PLAN

SCALE: 1" = 50'
DRAWN BY IYL
DATE SEPTEMBER 14, 2005
CHECKED BY FML

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	143
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE : 1" = 50'

0 25 50 100

℄ RAMP A

℄ RAMP B

℄ IL ROUTE 173

℄ INTERSTATE 90

PROPOSED ROW

PROPOSED ROW & A/C

BL MATCH LINE STA. 816+00.00

PRECAST 5'H X 6' W REINFORCED CONCRETE BOX CULVERT WITH HEADWALLS TYPE IV
STA. 824+00.0 (RAMP A)
135.0' LT. TO 42.1' RT.
U.S. ℄ = 874.70; D.S. ℄ = 874.00
SLOPE = 0.40%; SKEW = 0.0

4 x 24 LF - 12" DIA. RC PIPE CULVERTS
STA. 5012+73 & STA. 5012+17 (NWLOOP);
98.0' RT. TO 74.0' RT.
U.S. ℄ = 874.80; D.S. ℄ = 874.78
SLOPE = 0.3%; SKEW = 0.0; LENGTH = 24.0'

PROPOSED RC PIPE CULVERT
CLASS A, TYPE 2
36" DIA. WITH HEADWALLS TYPE IV
STA. 5012+88; 67.2' LT. TO 51.0' RT.
U.S. ℄ = 883.56; D.S. ℄ = 882.33
SLOPE = 1.04%; SKEW = 0.0

STORM SEWER OUTLET
D.S. ℄ = 877.13

EXIST. 72" CMP TO BE EXTENDED 99.7'
DOWNSTREAM END ONLY; USING
PIPE CULVERT, CLASS D TYPE 5
WITH END SECTION 72"
(IDOT HIGHWAY STANDARD 542111)
STA. 453+00.0; 98.3' LT. TO 198.0' LT.
U.S. ℄ = 881.29; D.S. ℄ = 879.13
SLOPE = 0.73%; SKEW = 0.0
EXISTING DS HEADWALL TO BE REMOVED

DETENTION POND

HWL$_{100}$ = 877.40
STORAGE VOLUME = 25.05 Ac-ft
BOTTOM EL. = 877.13 - 874.80
EMERGENCY OVERFLOW EL. = 878.00
W = 100'

STRUCT NUMBER	STATION	OFFSET	INLET ELEV.	STRUCTURE TYPE
520	5008+76.75	74.4' RT	874.78	SLOPED HEADWALL TYPE I - 12"
521	5008+74.75	74.4' RT	874.78	SLOPED HEADWALL TYPE I - 12"
522	5008+72.75	74.4' RT	874.78	SLOPED HEADWALL TYPE I - 12"
523	5008+70.75	74.4' RT	874.78	SLOPED HEADWALL TYPE I - 12"
524	5008+76.75	74.4' RT	874.80	SLOPED HEADWALL TYPE I - 12"
525	5008+74.75	74.4' RT	874.80	SLOPED HEADWALL TYPE I - 12"
526	5008+72.75	74.4' RT	874.80	SLOPED HEADWALL TYPE I - 12"
527	5008+70.75	74.4' RT	874.80	SLOPED HEADWALL TYPE I - 12"

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CENTRAL DETENTION POND DETAILS

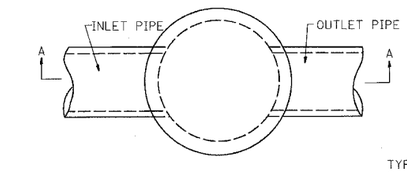
SCALE: 1" = 50' DRAWN BY TYL

DATE SEPTEMBER 14, 2005 CHECKED BY FML

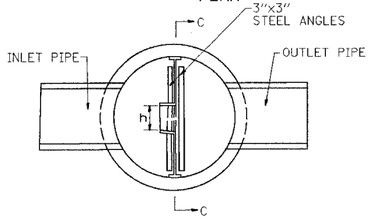
CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	144
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

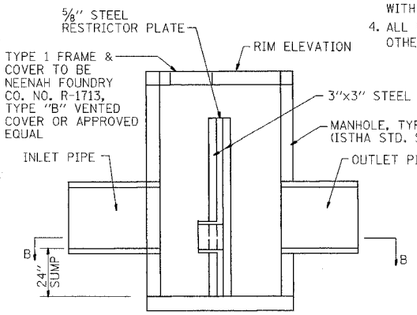
RESTRICTOR MANHOLE DETAILS



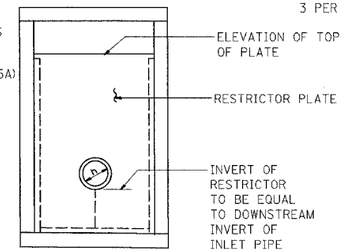
PLAN



SECTION B-B



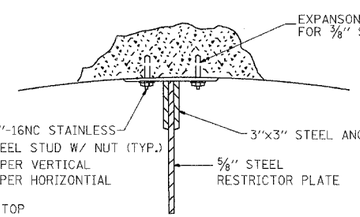
SECTION A-A



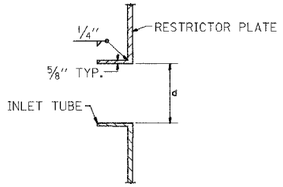
SECTION C-C

NOTES:

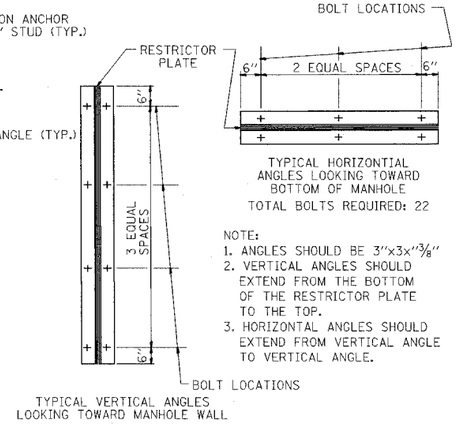
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: MANHOLE, TYPE 1 RESTRICTOR PLATE WITH THE FRAME AND GRATE AND DIAMETER SPECIFIED.
4. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.



ANGLE FASTENER DETAIL

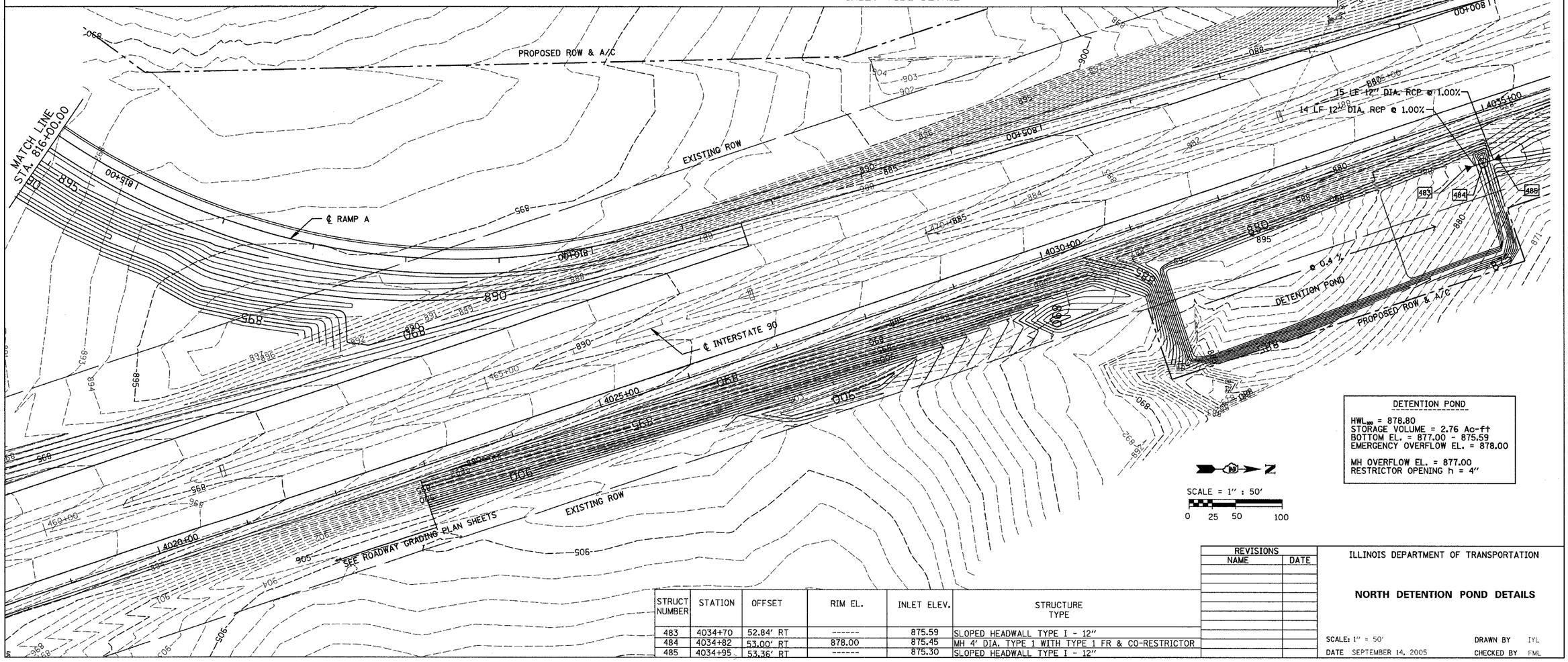


INLET TUBE DETAIL



NOTE:
1. ANGLES SHOULD BE 3"x3"x3/8"
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STEEL ANGLE BOLTING DETAILS



STRUCT NUMBER	STATION	OFFSET	RIM EL.	INLET ELEV.	STRUCTURE TYPE
483	4034+70	52.84' RT	------	875.59	SLOPED HEADWALL TYPE I - 12"
484	4034+82	53.00' RT	878.00	875.45	MH 4' DIA. TYPE 1 WITH TYPE 1 FR & CO-RESTRICTOR
485	4034+95	53.36' RT	------	875.30	SLOPED HEADWALL TYPE I - 12"

DETENTION POND

HWL$_{100}$ = 878.80
STORAGE VOLUME = 2.76 Ac-ft
BOTTOM EL. = 877.00 - 875.59
EMERGENCY OVERFLOW EL. = 878.00

MH OVERFLOW EL. = 877.00
RESTRICTOR OPENING h = 4"

SCALE = 1" : 50'

0 25 50 100

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

NORTH DETENTION POND DETAILS

SCALE: 1" = 50' DRAWN BY IYL

DATE SEPTEMBER 14, 2005 CHECKED BY FML

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	145
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SCALE : 1" = 50'

0 25 50 100

DETENTION POND

HWL$_{pp}$ = 904.50
STORAGE VOLUME = 0.68 Ac-ft
BOTTOM EL. = 903.00 - 901.00

MH OVERFLOW EL. = 904.80
RESTRICTOR OPENING h = 8"

EXISTING ROW
PROPOSED ROW
PROPOSED ROW & A/C
℄ INTERSTATE 90
℄ RAMP D
℄ IL ROUTE 173
DETENTION POND
20 LF 24" RCP @ 1.0%
7 LF 24" RCP @ 1.0%
804
805
806
SEE ROADWAY GRADING PLAN
1435+00
1440+00
1430+00
1310+00
1315+00
1320+00
4000+00
1200+00
1950+00
2500+00
1505+00
1503+00
1504+00
1504+00
1500+00

STRUCT NUMBER	STATION	OFFSET	RIM EL.	INVERT ELEV.	STRUCTURE TYPE
804	1311+68	71.78' RT	------	900.68	HEADWALL TYPE I - 24"
805	1311+85	78.90' RT	906.00	900.91 N , 900.88 S	MH 4' DIA. TYPE 1 WITH TYPE 1 FR & CO-RESTRICTOR
806	1311+91	82.79' RT	------	901.00	HEADWALL TYPE I - 24"

SEE NORTH DETENTION POND DETAILS FOR MANHOLE RESTRICTOR DETAIL

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOUTH DETENTION POND DETAILS

SCALE: 1" = 50'
DATE SEPTEMBER 14, 2005
DRAWN BY IYL
CHECKED BY FML

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	146
STA. 158+00		TO STA. 163+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

N

0 20' 40'

1" = 20' (HORIZ.)

PROPOSED R.O.W. / AC — AC — AC — AC — PROPOSED R.O.W. / AC — AC

WIER ELEV. = 878.79

WIER ELEV. = 880.09

878.15 COMB CC&G TB6.24 — 878.63 — 878.97 — 879.29 — 879.62 — 879.94 — 880.27 — 880.59 — 880.92

878.45 — 878.93 — 879.27 — 879.59 — 879.92 — 880.24 — 880.57 — 880.89 — 881.22

STA. 160+45.98 (IL 173) = STA. 9004+04.96 (ROCK CUT STATE PARK)

B C PVT FD SUP 12.25

878.93 — CONC MEDIAN TSB6.24 SPL — 879.41 — +45.00, 16.0' LT. — +93.23, 12.14' LT. — 880.07 — PCC RAMP MED TERM SPL — 879.94 — 880.40 — ℄ PROP. IL 173 — 880.72 — 881.05 — 881.37 — 881.70

879.17 — 879.65 — 159+00 — +88.42, 8' LT. — 880.76 — +35.44, 7.57' RT. — 161+00 — 881.08 — 881.29 — 881.49 — 162+00 — 881.61 — 881.94

879.29 — 879.77 — EXIST. R.O.W. — 880.11 — +93.19, 8.15' LT. — 880.43 — 880.40 — 880.72 — 881.17 — 881.82

878.93 — 879.41 — 879.75 — 880.07 — 879.92 — PCC RAMP MED TERM SPL — 880.24 — 880.57 — 881.05 — 881.37 — 881.70

878.45 — 878.93 — 879.27 — 879.59 — +46.57, 55.20' RT. ELEV. = 879.75 — +34.86, 11.49' RT. — +65.32, 16.0' RT. — CONC MEDIAN TSB6.24 SPL — 881.22

878.21 — 877.91 — +01.35, 52.0' RT ELEV. = 878.66 — 878.82 — 878.72 — 878.58 — 878.55 — 878.47 — 878.45 — 878.36 — 878.39 — 878.34 — 878.77 — 879.11 — 879.58 — 880.05 — 880.29 — 880.59 — 880.92

25' TYP. — SEE ISLAND LAYOUT DETAIL — +41.77, 75.11' RT. ELEV. = 879.55 — +54.29, 56.66' RT. ELEV. = 879.73 — 25' TYP. — 880.57 — 880.89

COMB CC&G TB6.24 — +14.99, 64' RT — 878.67 — 878.59 — +61.63, 77.94' RT. — 879.40 — 879.95 — +13.30, 68.8' RT. EL. 879.57 — 879.54 — WIER ELEV. = 880.09 — COMB CC&G TB6.24

+88.12, 52.0' RT. ELEV. = 880.52 — +74.48, 40.00 RT ELEV. = 880.73 — 880.44

+90.46, 90.66' RT EL. 879.03 — COMB CC&G TB6.12 — PROTECT EXISTING HARN SURVEY MARKER DURING CONSTRUCTION — EXIST. R.O.W.

WIER ELEV= 878.46 — +38.29, 109.86' RT. — 879.40 — WIER ELEV. = 878.29 — +84.88, 109.49 RT ELEV. = 878.79

PT Sta 9002+74.59

PROTECT EXISTING SIGN DURING CONSTRUCTION

MATCH EXIST PAVEMENT STA. 9002+34.29 ELEV. = 879.76 — COMB CC&G TB6.12

MATCH EXISTING MEDIAN CURB

159+69, 48.0' RT. ELEV = 879.17 — 159+74.69, 54.07' RT. — COMB CC&G TB6.06 — 879.37 — 160+26.29, 48' RT. ELEV = 879.57

159+69, 52.0' RT. ELEV = 879.15 — 2'R — 3'R — 160+20.71, 53.74' RT. — EXIST. R.O.W.

CONC MED SURF 4" — 879.25

159+89.32, 71.85' RT. ELEV. = 879.39 — COMB CC&G TB6.24

879.34 — 133'R — COMB CC&G TB6.06 — 879.21 — 879.16 — 25' TYP. — 160+21.71, 115.47' RT. — 2'R

160+22.29, 124.12' RT. ELEV = 879.08 — 160+26.29, 124.12' RT. ELEV = 879.09

DETAIL – ISLAND LAYOUT

PER I.D.O.T. STD. 606301-02

CORNER RADIUS DATA
PC = 159+14.99, 64.00' RT.
C = 159+14.99, 149.00' RT.
PCC = 159+61.63, 77.94' RT.
C = 159+01.27, 169.90' RT.
PT = 160+11.21, 173.48' RT.
R1 = 85'
R2 = 110'
OFF = 12'

160+11.21, 173.48' RT. (IL 173) = 9002+31.56, 33.88' LT. (ROCK CUT ENT) ELEV. = 879.65

MATCH EXIST PAVEMENT STA. 9002+00

879.90 — COMB CC&G TB6.24 — 879.37 — 879.90 — 880.19 — 880.96 — 9002+00

110' R. — 85' R. — 85' R. — 110' R. — 72'R — 50' R. — 175' R. — 175' R. — 105'R — 95'R — 50' R.

EXIST. R.O.W.

CORNER RADIUS DATA
PC = 160+84.88, 109.49' RT.
C = 161+34.68, 114.00' RT.
PCC = 161+13.30, 68.80' RT.
C = 161+88.12, 227.00' RT.
PT = 161+88.12, 52.00' RT.
R1 = 50'
R2 = 175'
OFF = 12'

NOTE:
A HARN SURVEY MARKER IS LOCATED WITHIN THE EXISTING MEDIAN OF ROCK CUT STATE PARK ENTRANCE THIS MARKER IS NOT TO BE DISTURBED AND IF IT IS DISTURBED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE RESETTING OF THE SURVEY MARKER.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ROCK CUT STATE PARK

INTERSECTION DETAIL

STA. 158+00 TO STA. 163+00

SCALE: VERT.
HORIZ. 1" = 20'

DRAWN BY: JDU

DATE: 9/14/05

CHECKED BY: BJF/BSL

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	147
STA. 178+00		TO STA. 184+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

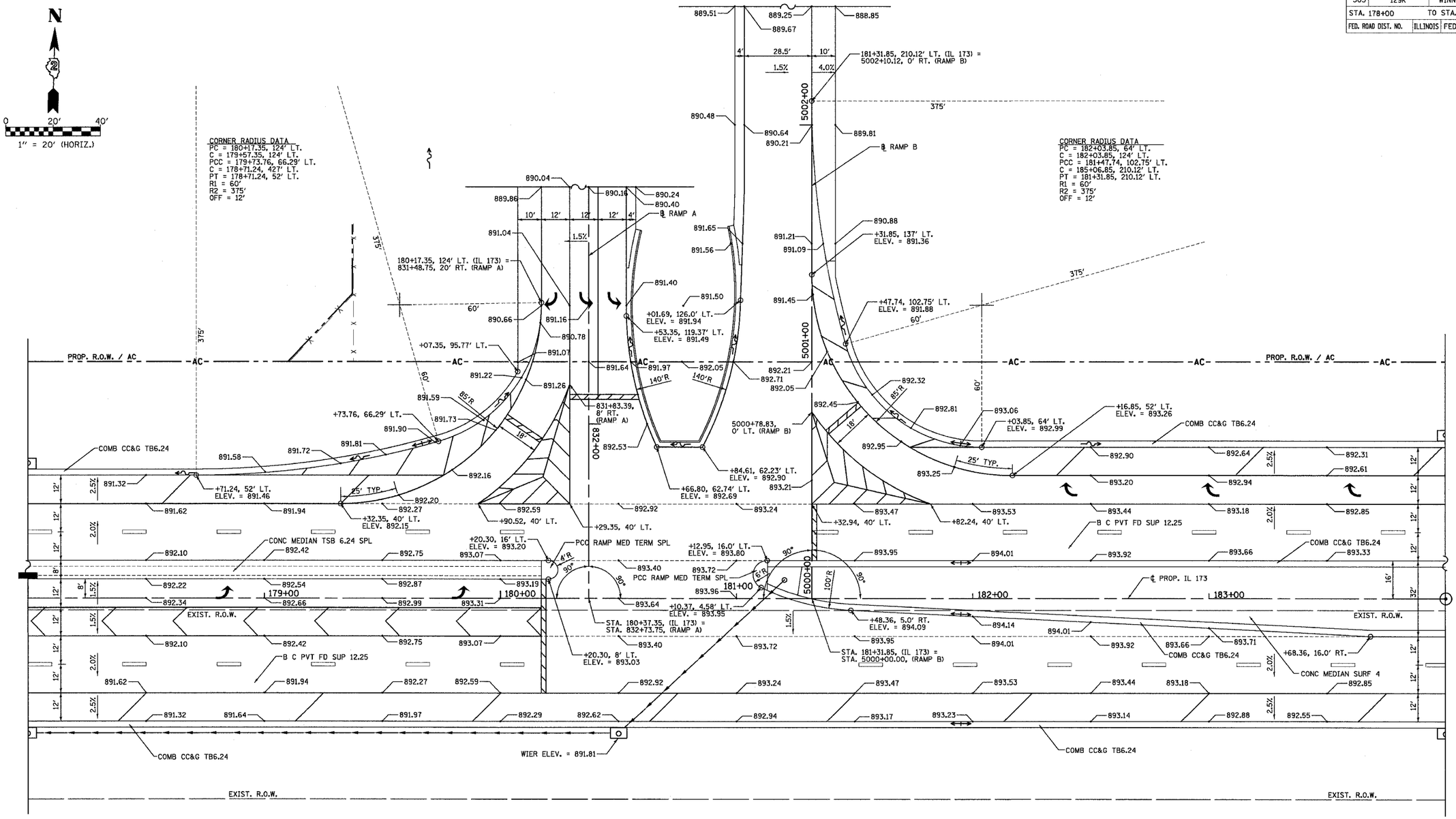
N

0 20′ 40′

1″ = 20′ (HORIZ.)

CORNER RADIUS DATA
PC = 180+17.35, 124′ LT.
C = 179+57.35, 124′ LT.
PCC = 179+73.76, 66.29′ LT.
C = 178+71.24, 427′ LT.
PT = 178+71.24, 52′ LT.
R1 = 60′
R2 = 375′
OFF = 12′

CORNER RADIUS DATA
PC = 182+03.85, 64′ LT.
C = 182+03.85, 124′ LT.
PCC = 181+47.74, 102.75′ LT.
C = 185+06.85, 210.12′ LT.
PT = 181+31.85, 210.12′ LT.
R1 = 60′
R2 = 375′
OFF = 12′



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

RAMPS A & B
INTERSECTION DETAIL
STA. 178+00 TO STA. 184+00

SCALE: VERT.
HORIZ.
DATE: 9/14/05

DRAWN BY: JDU
CHECKED BY: BJF/BSL

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	148
STA. 194+00		TO STA. 200+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

N

0 20' 40'

1" = 20' (HORIZ.)

CORNER RADIUS DATA
PC = 196+87.82, 90.00' LT.
C = 196+02.88, 93.00' LT.
PCC = 196+80.28, 57.87' LT.
C = 196+71.17, 62.00' LT.
PT = 196+71.17, 52.00' LT.
R1 = 85'
R2 = 10'
OFF = N/A

CORNER RADIUS DATA
PC = 197+96.99, 64.00' LT.
C = 197+96.99, 134.00' RT.
PCC = 197+33.46, 104.63' LT.
C = 199+14.99, 188.55' LT.
PT = 197+14.99, 188.55' LT.
R1 = 70'
R2 = 200'
OFF = 12'

CORNER RADIUS DATA
PC = 196+59.40, 52.00' RT.
C = 196+59.40, 62.00' RT.
PCC = 196+69.20, 60.01' RT.
C = 195+80.99, 77.91' RT.
PT = 196+70.99, 77.91' RT.
R1 = 10'
R2 = 90'
OFF = N/A

CORNER RADIUS DATA
PC = 197+06.99, 152' RT.
C = 198+06.99, 152' RT.
PT = 198+06.99, 52' RT.
R1 = 100'
OFF = N/A

ILLINOIS ROUTE 173

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

RAMPS C & D

INTERSECTION DETAIL

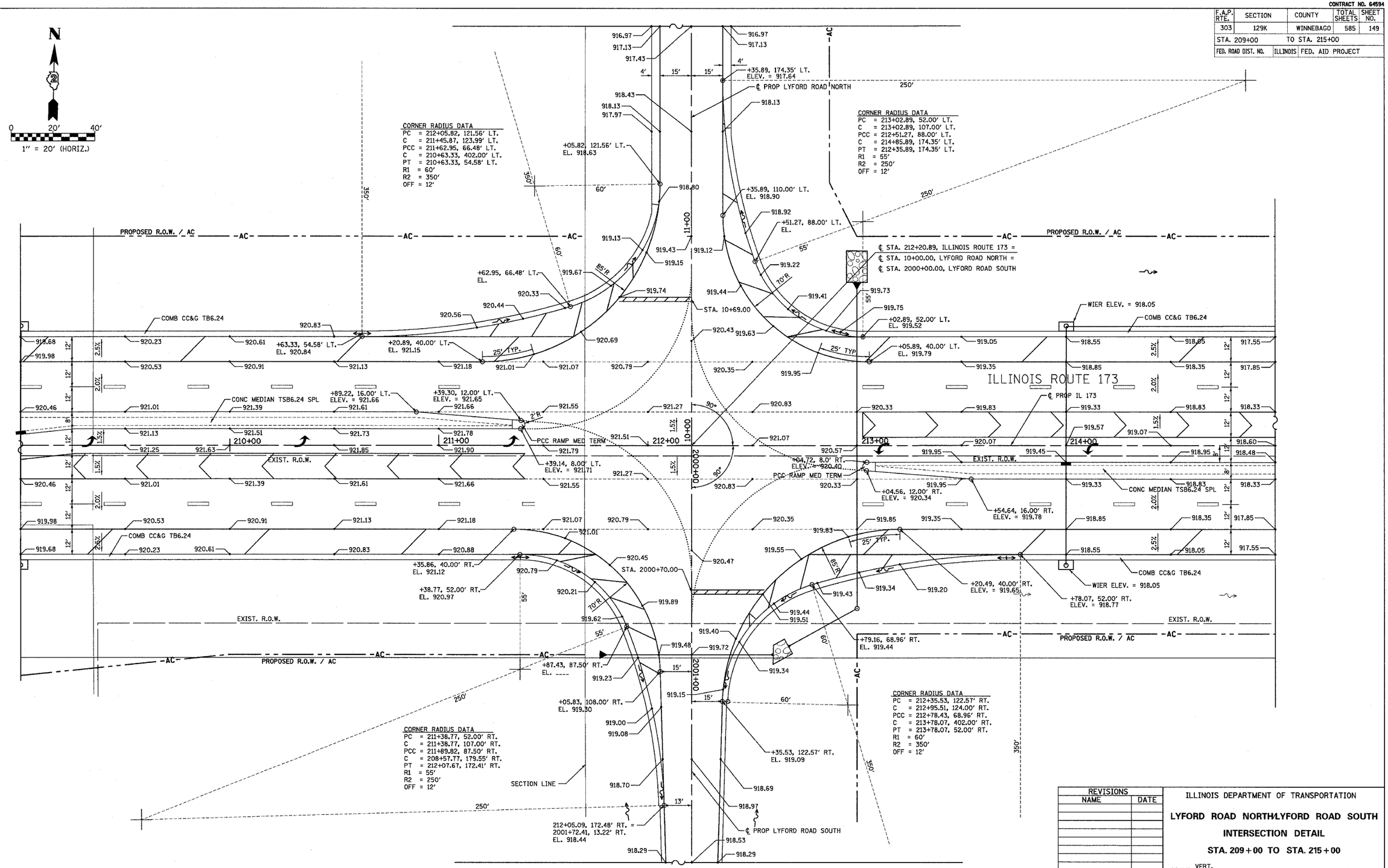
STA. 194+00 TO STA. 200+00

SCALE: VERT.
HORIZ.
DATE: 9/14/05

DRAWN BY: JDU
CHECKED BY: BJF/BSL

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	149
STA. 209+00	TO STA. 215+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LYFORD ROAD NORTH/LYFORD ROAD SOUTH INTERSECTION DETAIL

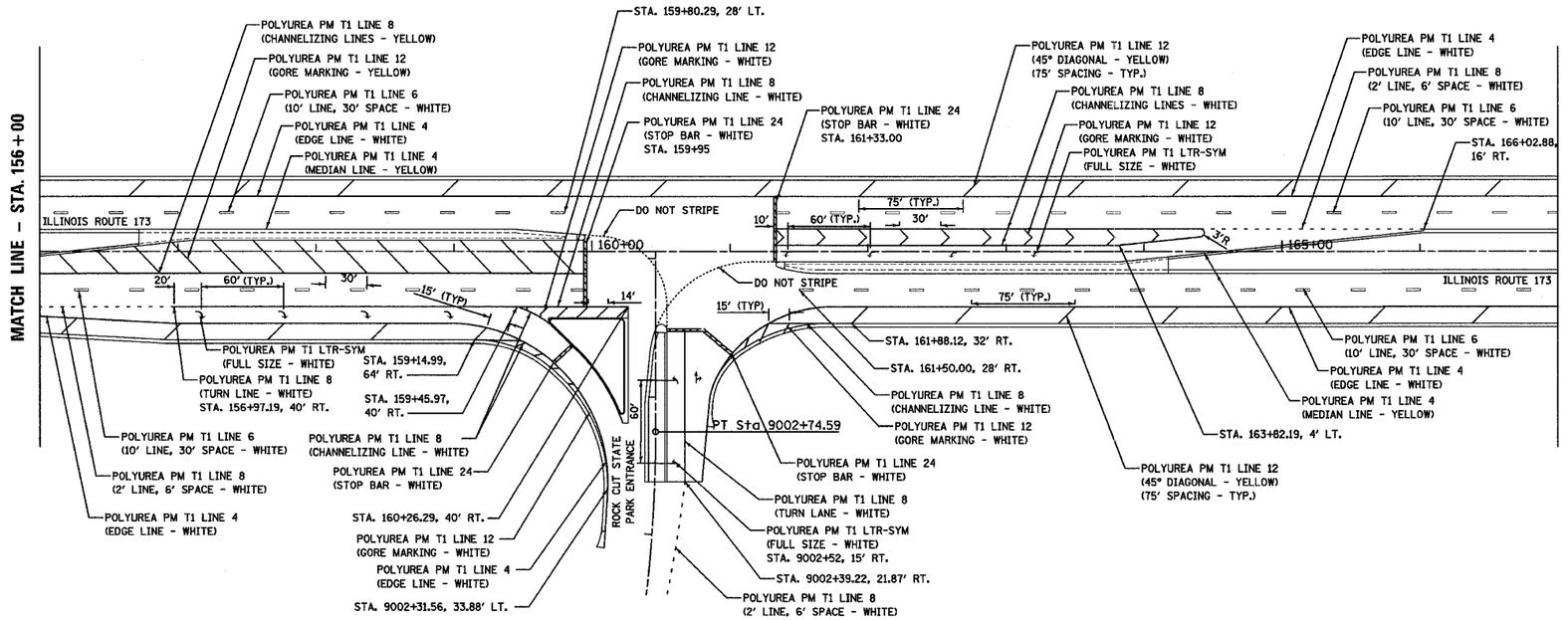
STA. 209+00 TO STA. 215+00

SCALE: VERT.
HORIZ. 1" = 20'
DATE: 9/14/05

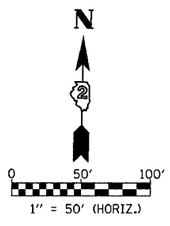
DRAWN BY: JDU
CHECKED BY: BJF/BSL

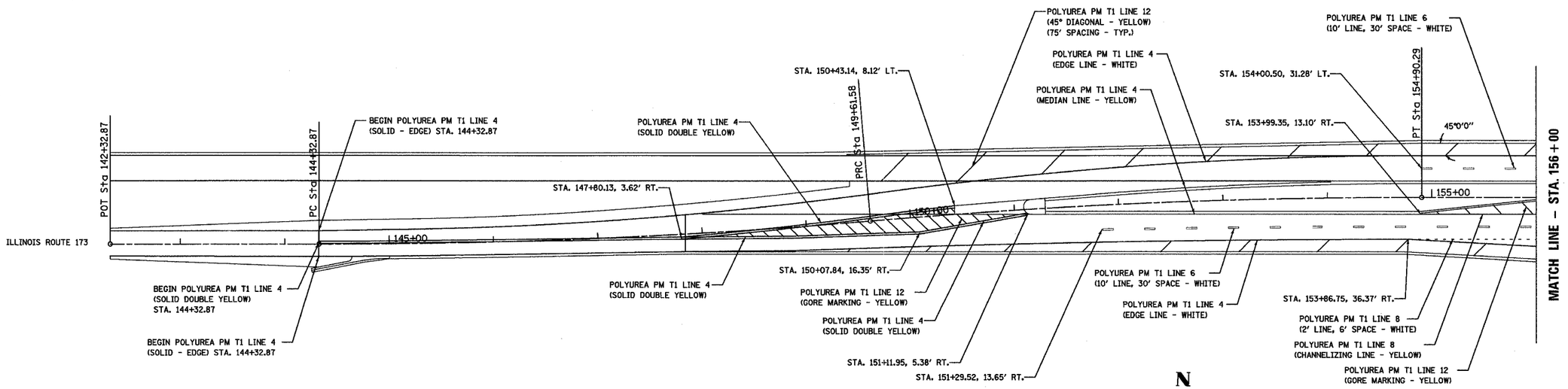
CONTRACT NO. 64594

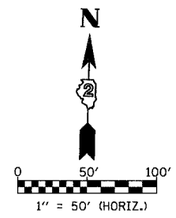
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	150
STA. 142+32.87		TO STA. 167+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FROM 167+00 - 173+00, APPLY STANDARD PAVEMENT MARKING LINES







REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

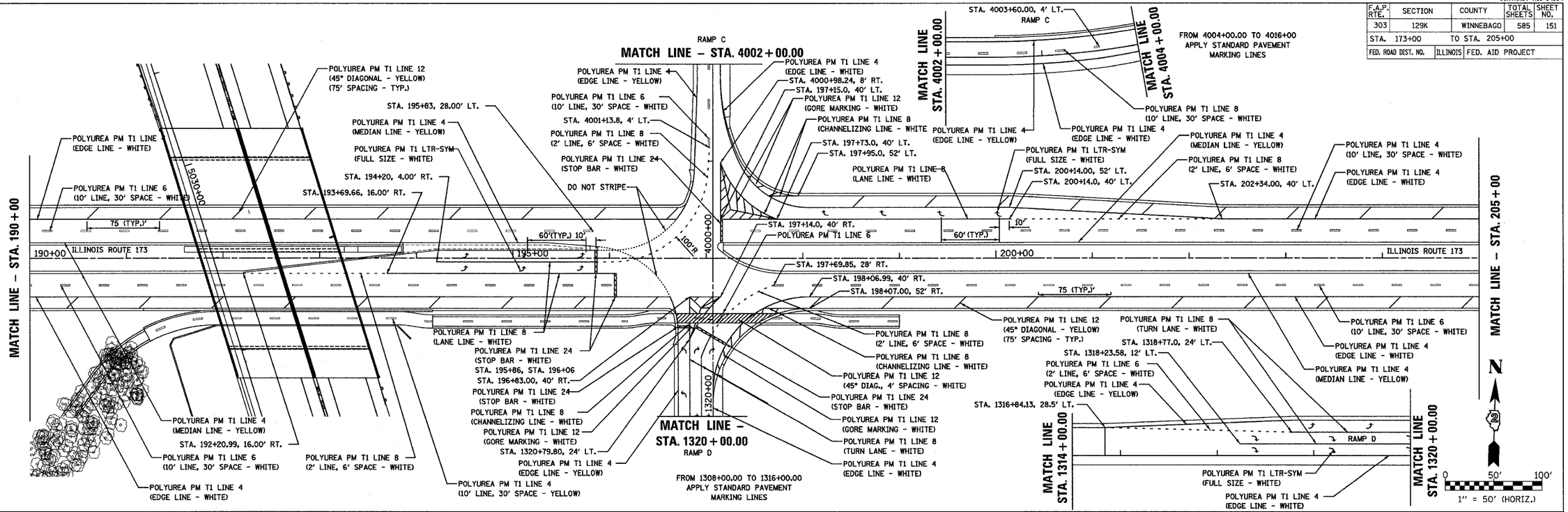
PAVEMENT MARKING DETAILS
STA. 142+32.87 TO STA. 167+00

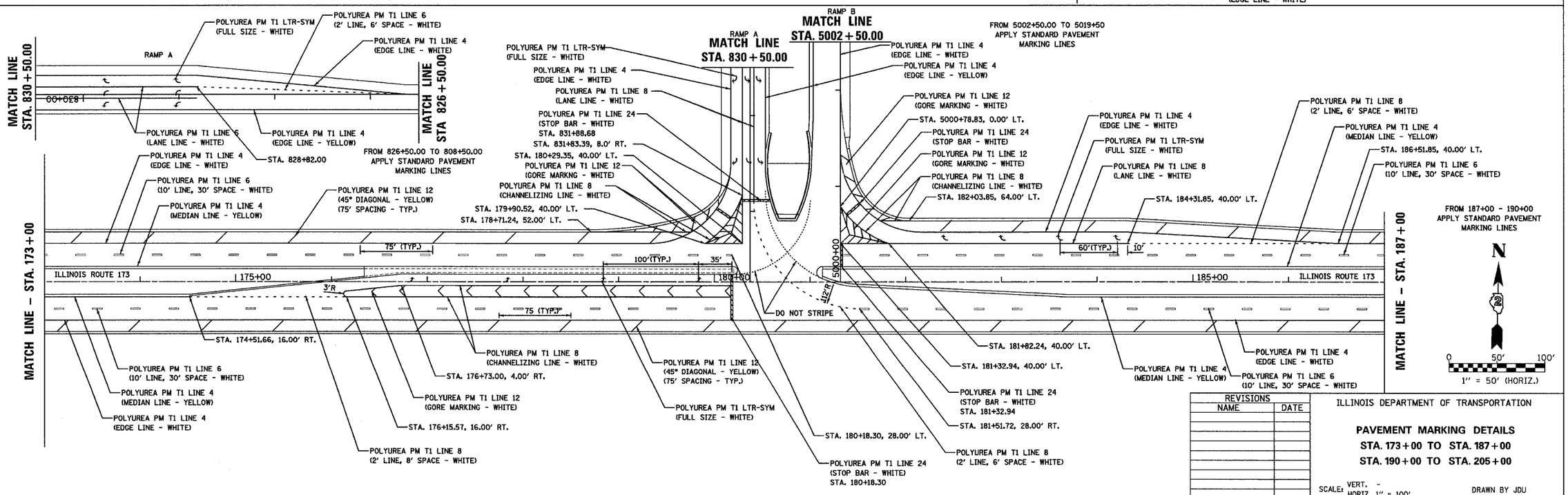
SCALE: VERT. - HORIZ. 1" = 100'
DATE: 9/14/05

DRAWN BY JDU
CHECKED BY KRL

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	151
STA. 173+00	TO STA. 205+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

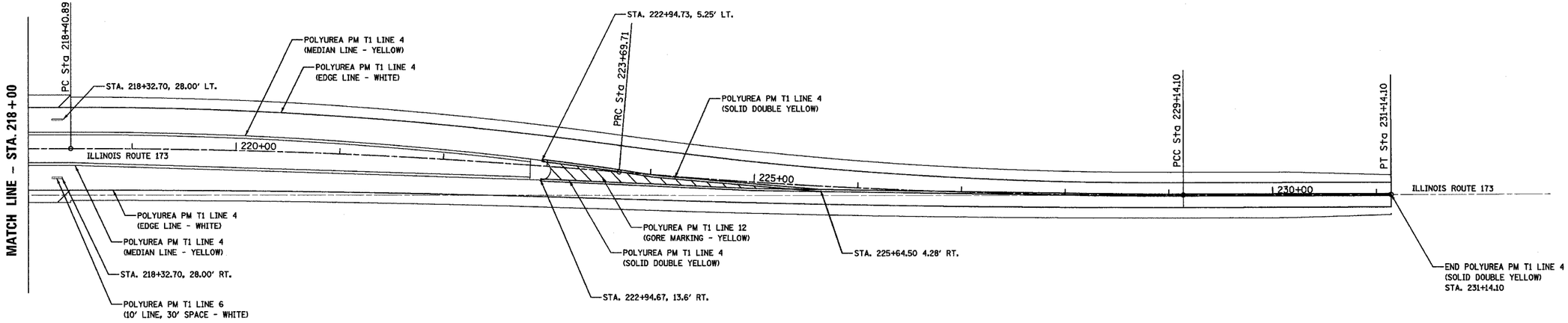
PAVEMENT MARKING DETAILS
STA. 173+00 TO STA. 187+00
STA. 190+00 TO STA. 205+00

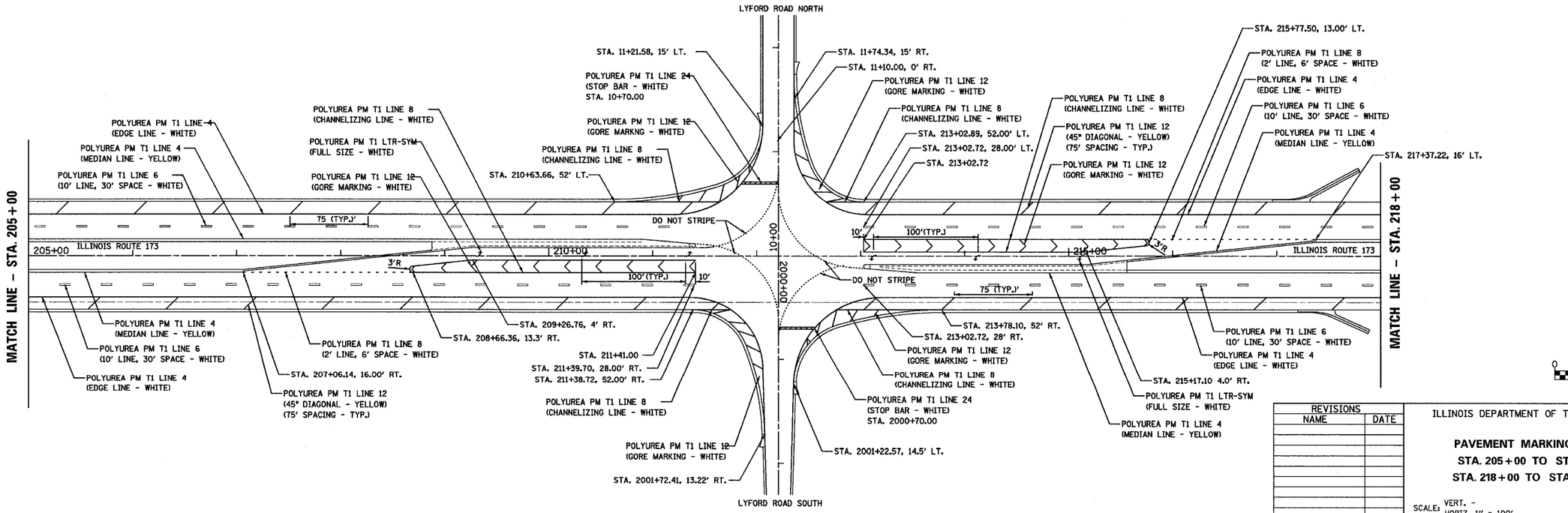
SCALE: VERT. - HORIZ. 1" = 100'
DATE: 9/14/05

DRAWN BY JDU
CHECKED BY KRL

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	152
STA. 205+00		TO STA. 231+14.10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

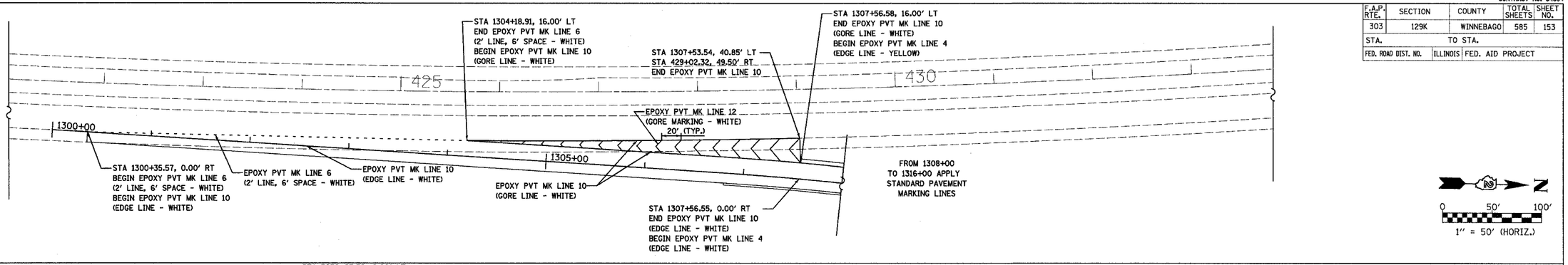
PAVEMENT MARKING DETAILS
STA. 205+00 TO STA. 218+00
STA. 218+00 TO STA. 231+14.10

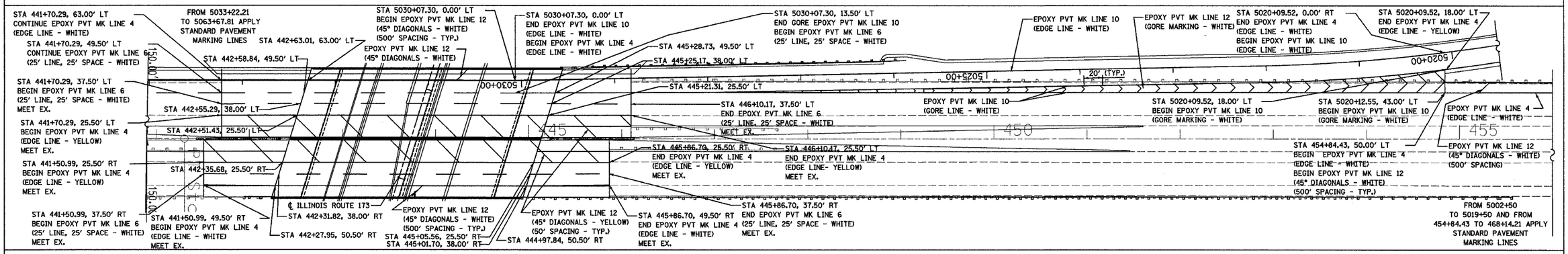
SCALE: VERT. - HORIZ. 1" = 100'
DATE 9/14/05

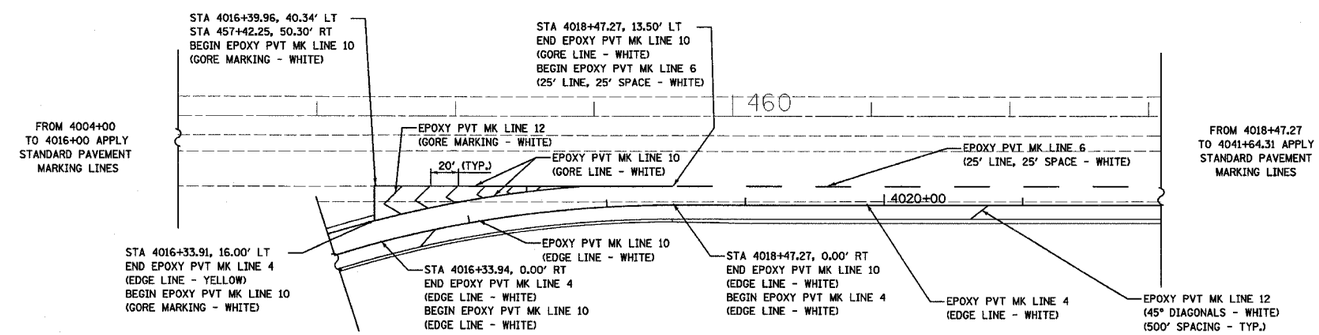
DRAWN BY JDU
CHECKED BY KRL

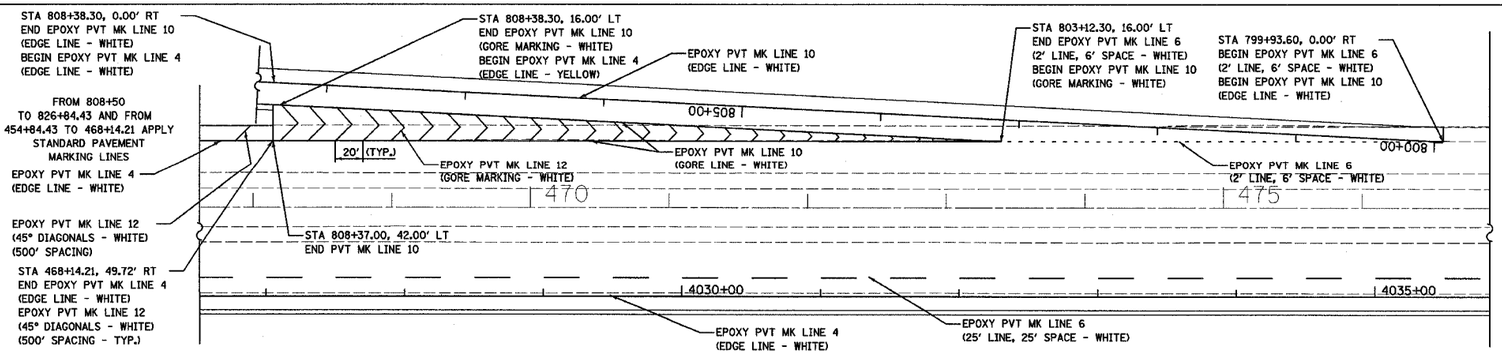
CONTRACT NO. 64594

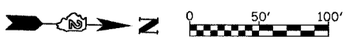
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	153
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		











REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

1308+00 TO 1316+00
4016+00 TO 4018+47.27
5019+50 TO 5033+22.21
800+00 TO 808+34.22

SCALE: VERT. NA
HORIZ. 1" = 100'

DRAWN BY EJB

DATE: SEPTEMBER 14, 2005

CHECKED BY CRF

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	129 K	WINNEBAGO	585	154
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

190/ IL 173

TRAFFIC SIGNAL TABULATION

CODE NUMBER	ITEM	UNIT	ROCK CUT STATE PARK ENTRANCE	SB RAMPS	NB RAMPS	TOTAL
80400105	SERVICE INSTALLATION, SPECIAL	EACH	1	1	1	3
81400400	CONCRETE HANDHOLE	EACH	5	5	4	14
81400600	CONCRETE DOUBLE HANDHOLE	EACH	1	1	1	3
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1594	770	802	3166
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 250 WATT	EACH	4	3	1	8
82500605	LIGHTING CONTROLLER PHOTOCELL RELAY	EACH	1	1	1	3
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1	1	3
87301245	ELECTRIC CABLE SIGNAL No. 14, 5C	FOOT	2050	3346	3147	8543
87301255	ELECTRIC CABLE SIGNAL No.14, 7C	FOOT	1140	584	1451	3175
87301815	ELECTRIC CABLE IN CONDUIT SERVICE #6 3C	FOOT	51	63	24	138
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14FT	EACH	2	3	0	5
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12FT	EACH	0	2	3	5
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT	EACH	0	1	1	1
87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT	EACH	0	1	1	2
87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT	EACH	0	0	1	1
87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT	EACH	1	0	0	1
87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT	EACH	3	1	0	4

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

TRAFFIC SIGNALS

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	155
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

190/ IL 173

TRAFFIC SIGNAL TABULATION CONT.

CODE NUMBER	ITEM	UNIT	STATE PARK ENTRANCE	SB RAMP	NB RAMP	TOTAL
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6	15	18	39
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3.5	3.5	3.5	10
87800415	CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	58	39	27	124
88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	8	8	7	23
X0324886	CONDUIT INSTALLED 1 1/4", NON-METALLIC	FOOT	51	33	24	108
X0324887	CONDUIT INSTALLED 2 1/2", NON-METALLIC	FOOT	155	199	104	458
X0324888	CONDUIT INSTALLED 4", NON-METALLIC	FOOT	422	335	536	1293
X0320872	VIDEO VEHICLE DETECTION SYSTEM	EACH	1	1	1	3
X0323153	ELECTRIC CABLE IN CONDUIT, GROUND, No. 6 IC (GREEN)	FOOT	625	525	565	1715
X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7	7	6	19
X8801300	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNT	EACH	1	4	5	10
X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNT	EACH	2	2	0	4
X8801400	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNT	EACH	1	1	1	3
X8801415	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, -3-SECTION, BRACKET MOUNT	EACH	0	0	2	2
X8801437	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNT	EACH	1	0	0	1
X8801447	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, -5-SECTION, BRACKET MOUNT	EACH	0	1	0	1
X0323712	RADIO INTERCONNECT SYSTEM COMPLETE, MASTER	EACH	0	1	0	1
X0300737	RADIO TRANSCEIVER	EACH	1	0	1	2
XX003163	EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	1	1	1	3

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

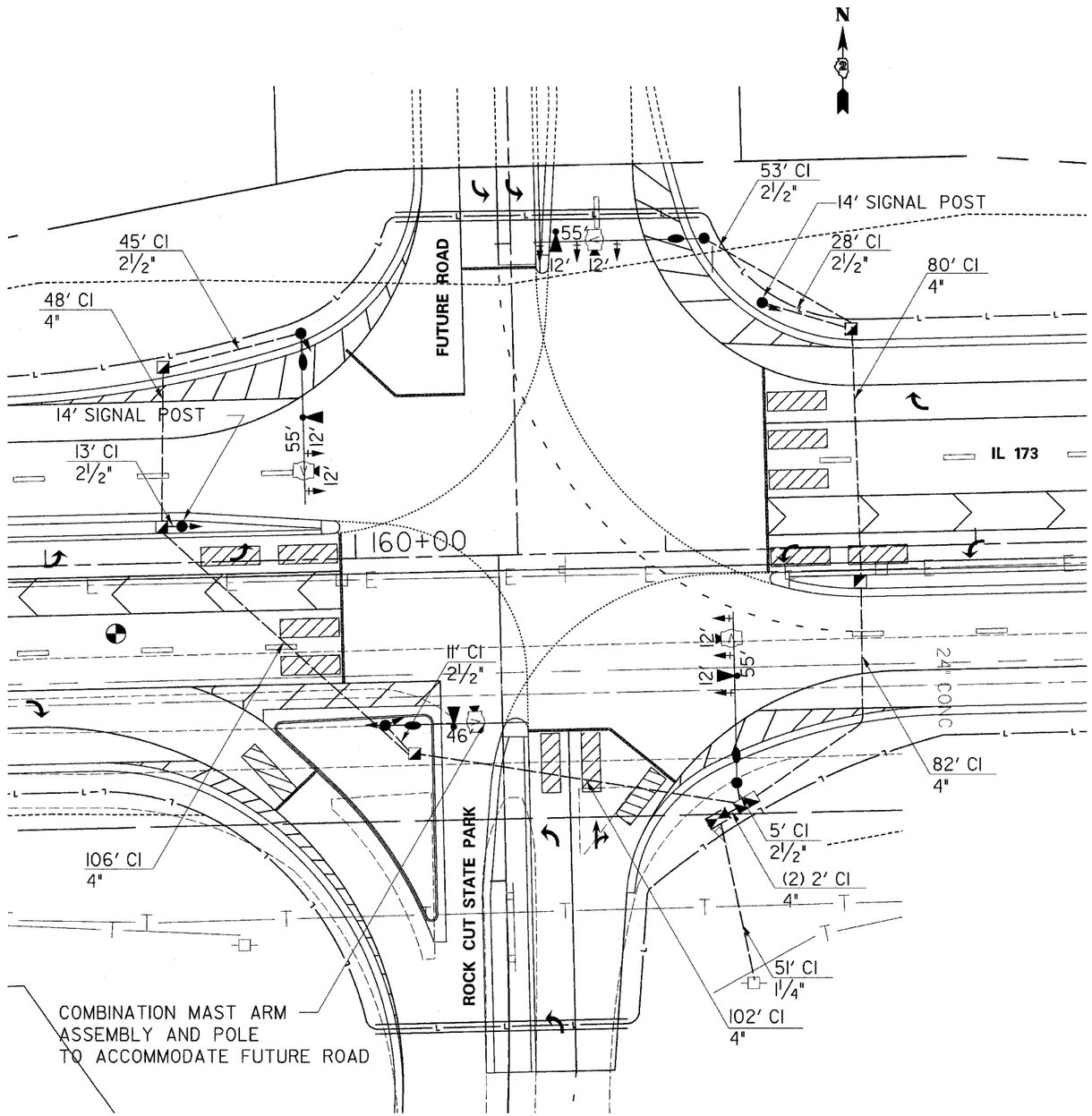
DRAWN BY
CHECKED BY

TRAFFIC SIGNALS

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	129 K	WINNEBAGO	585	156
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

190/ IL 173



1. THE MOUNTING HEIHT FOR THE LUMINARIES SHALL BE 35' 0" TENON MOUNTED WITH AN 8' HORIZONTAL ARM
2. ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES (STANDARD, COMBINATION OR DUAL) MUST BE DESIGNED FOR THE LOADING SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.

LEGEND

- CONTROLLER
- ALUMINUM MAST ARM ASSEMBLY AND POLE
- STEEL MAST ARM ASSEMBLY AND POLE
- SIGNAL HEAD AND POST
- SIGNAL HEAD WITH BACKPLATE
- PEDESTRIAN HEAD
- PEDESTRIAN PUSHBUTTON
- HANDHOLE
- JUNCTION BOX
- HEAVY-DUTY HANDHOLE
- DOUBLE HANDHOLE
- LUMINAIRE
- 5' - CI / 2" — CONDUIT INSTALLED, NON-METALLIC
  - UPPER NUMERAL INDICATES LENGTH
  - "CI" INDICATES CONDUIT INSTALLED, NON -METALLIC
  - WHETHER PUSHED OR TRENCHED
  - LOWER NUMERAL INDICATES SIZE OF CONDUIT
- MINIMUM VIDEO DETECTION ZONES

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

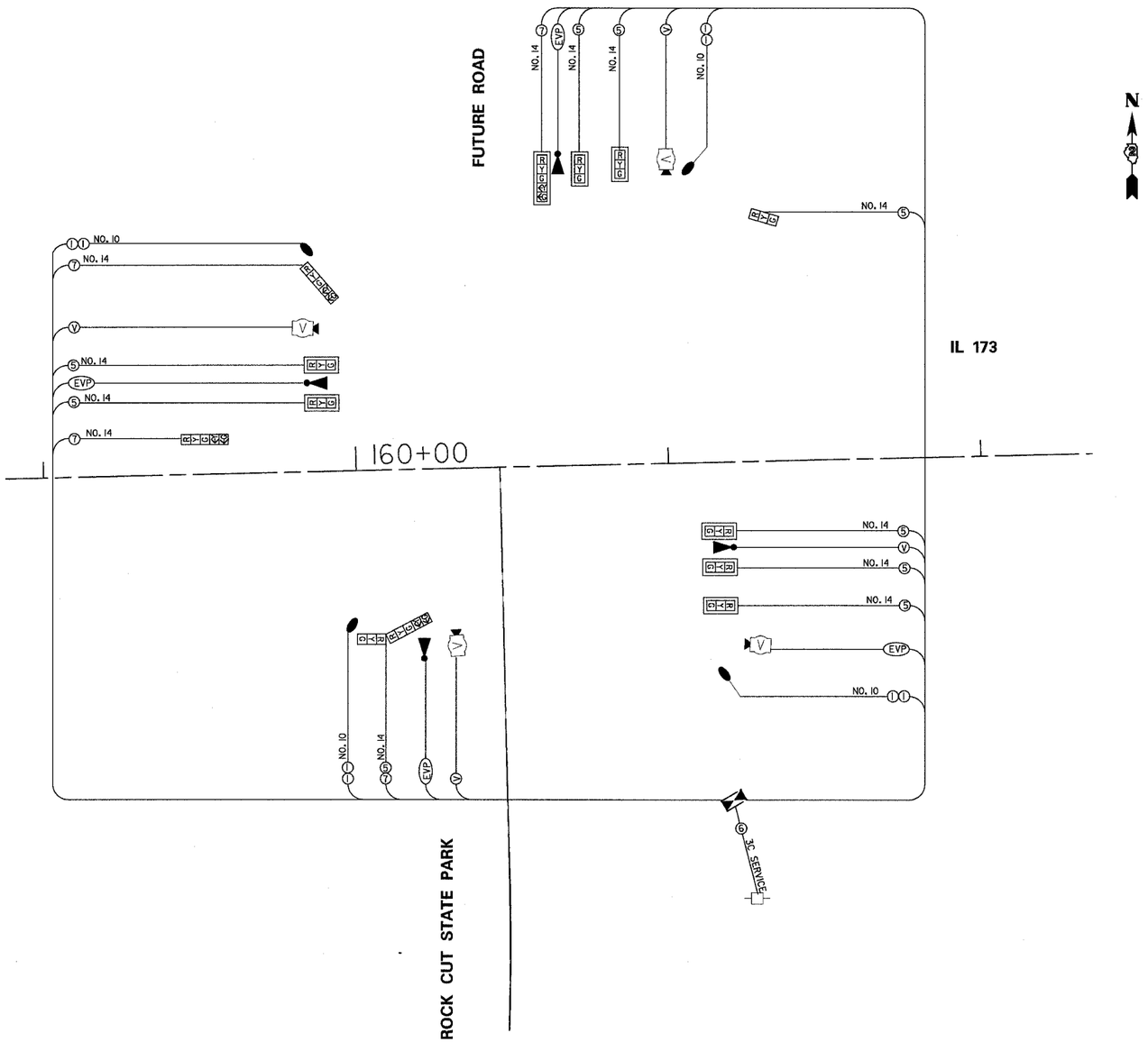
DRAWN BY
CHECKED BY

TRAFFIC SIGNALS

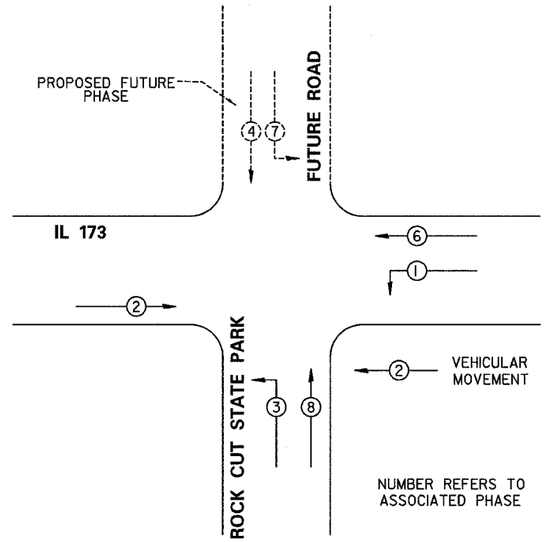
CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	157
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

190/ IL 173



PHASE DESIGNATION DIAGRAM



REFER TO STANDARD 857001

E-W MAJOR ROADWAY DETECTION ZONES		
ZONE	PHASE No.	DIRECTION
A	8	NB PRESENT
B	3	NB LEFT TURN
C	6	WB PRESENT
D	1	WB LEFT TURN
E	2	EB PRESENT

LEGEND

(2) INDICATES NUMBER OF NEW CONDUCTORS. ALL CABLE IS NO. 14 EXCEPT AS INDICATED. 'P' INDICATES PAIR CABLE

R Y G — NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE

LUMINAIRE, 250 WATT

V — VIDEO VEHICLE DETECTION, SYSTEM

EMERGENCY PREEMPTION SYSTEM

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

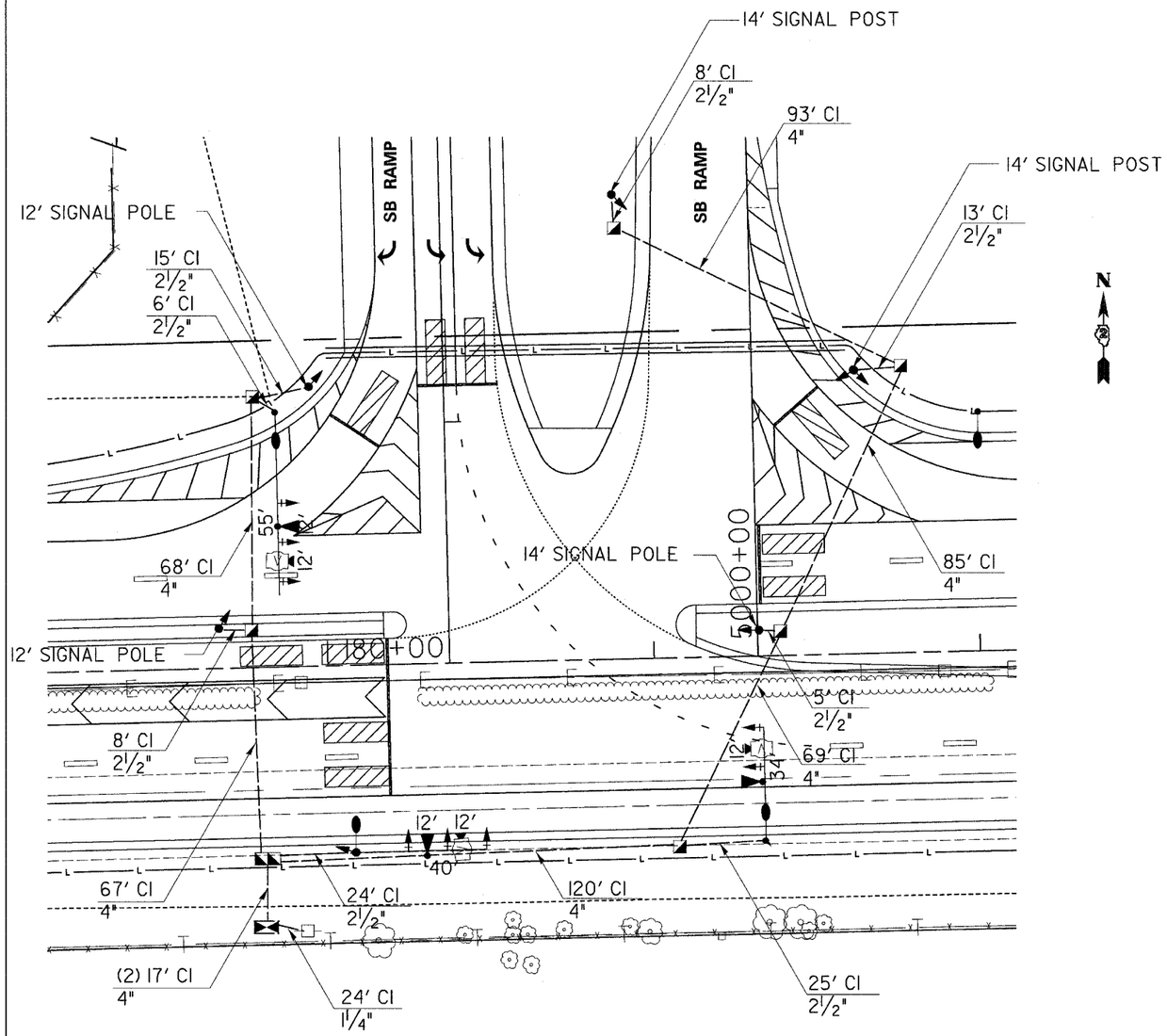
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

TRAFFIC SIGNALS

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	158
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

190/ IL 173



LEGEND

- CONTROLLER
- ALUMINUM MAST ARM ASSEMBLY AND POLE
- STEEL MAST ARM ASSEMBLY AND POLE
- SIGNAL HEAD AND POST
- SIGNAL HEAD WITH BACKPLATE
- PEDESTRIAN HEAD
- PEDESTRIAN PUSHBUTTON
- HANDHOLE
- JUNCTION BOX
- HEAVY-DUTY HANDHOLE
- DOUBLE HANDHOLE
- LUMINAIRE
- 5' - CI / 2" — CONDUIT INSTALLED, NON-METALLIC
  - UPPER NUMERAL INDICATES LENGTH
  - "CI" INDICATES CONDUIT INSTALLED, NON -METALLIC
  - WHETHER PUSHED OR TRENCHED
  - LOWER NUMERAL INDICATES SIZE OF CONDUIT
- MINIMUM VIDEO DETECTION ZONES

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

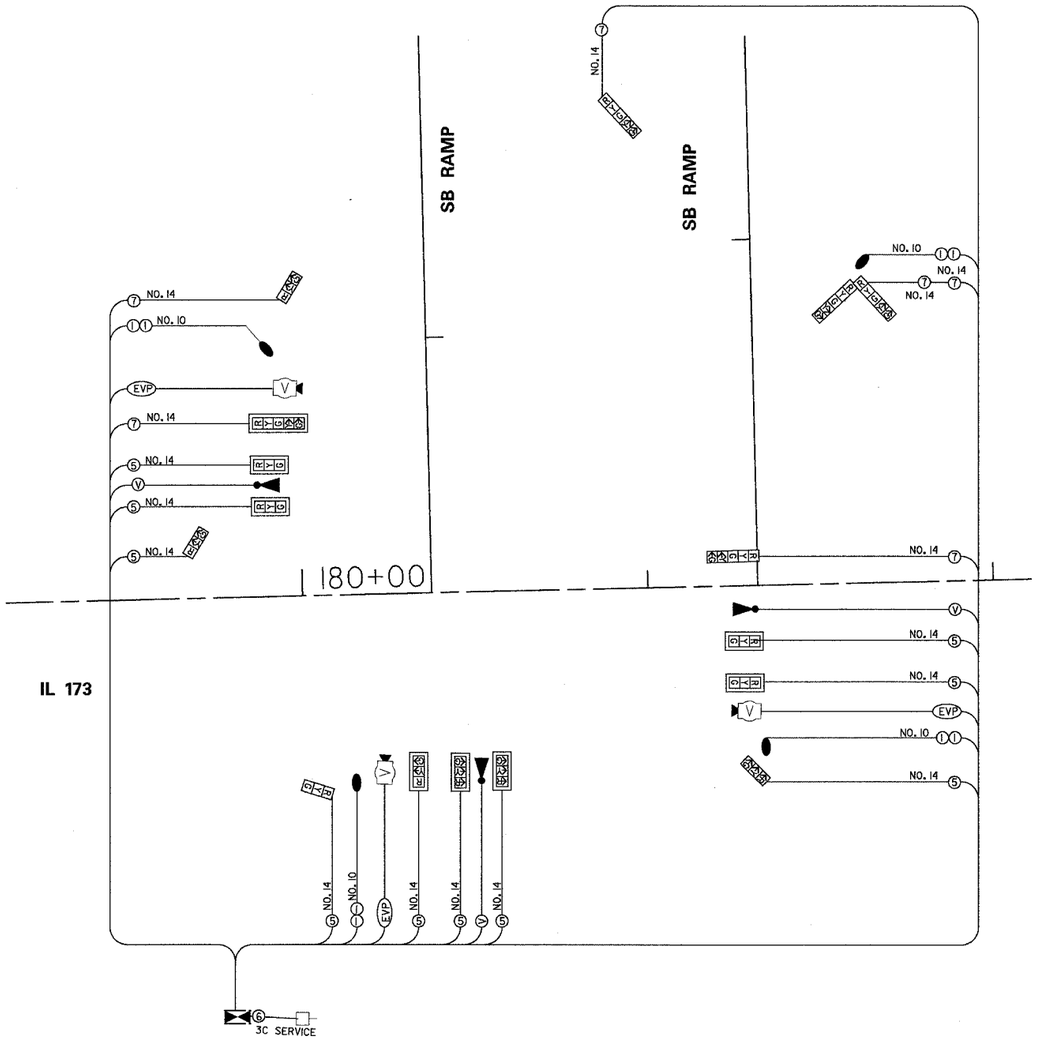
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

TRAFFIC SIGNALS

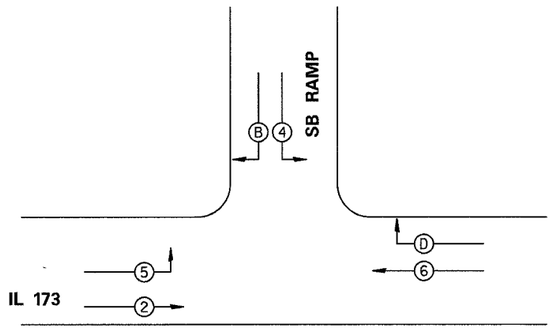
CONTRACT NO. 64594

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
▪	129 K	WINNEBAGO	585	159
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

190/ IL 173



PHASE DESIGNATION DIAGRAM



(2) VEHICULAR MOVEMENT

NUMBER REFERS TO ASSOCIATED PHASE

REFER TO STANDARD 857001

SOUTHBOUND RAMP

E-W MAJOR ROADWAY DETECTION ZONES		
ZONE	PHASE No.	DIRECTION
A	4	SB PRESENT
B	B	SB RIGHT TURN
C	6	WB PRESENT
D	D	WB RIGHT TURN
E	2	EB PRESENT
F	5	EB LEFT TURN

LEGEND

(2) INDICATES NUMBER OF NEW CONDUCTORS. ALL CABLE IS NO. 14 EXCEPT AS INDICATED. 'P' INDICATES PAIR CABLE

R Y G NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE

LUMINAIRE, 250 WATT

VIDEO VEHICLE DETECTION, SYSTEM

EMERGENCY PREEMPTION SYSTEM

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE

DRAWN BY
CHECKED BY

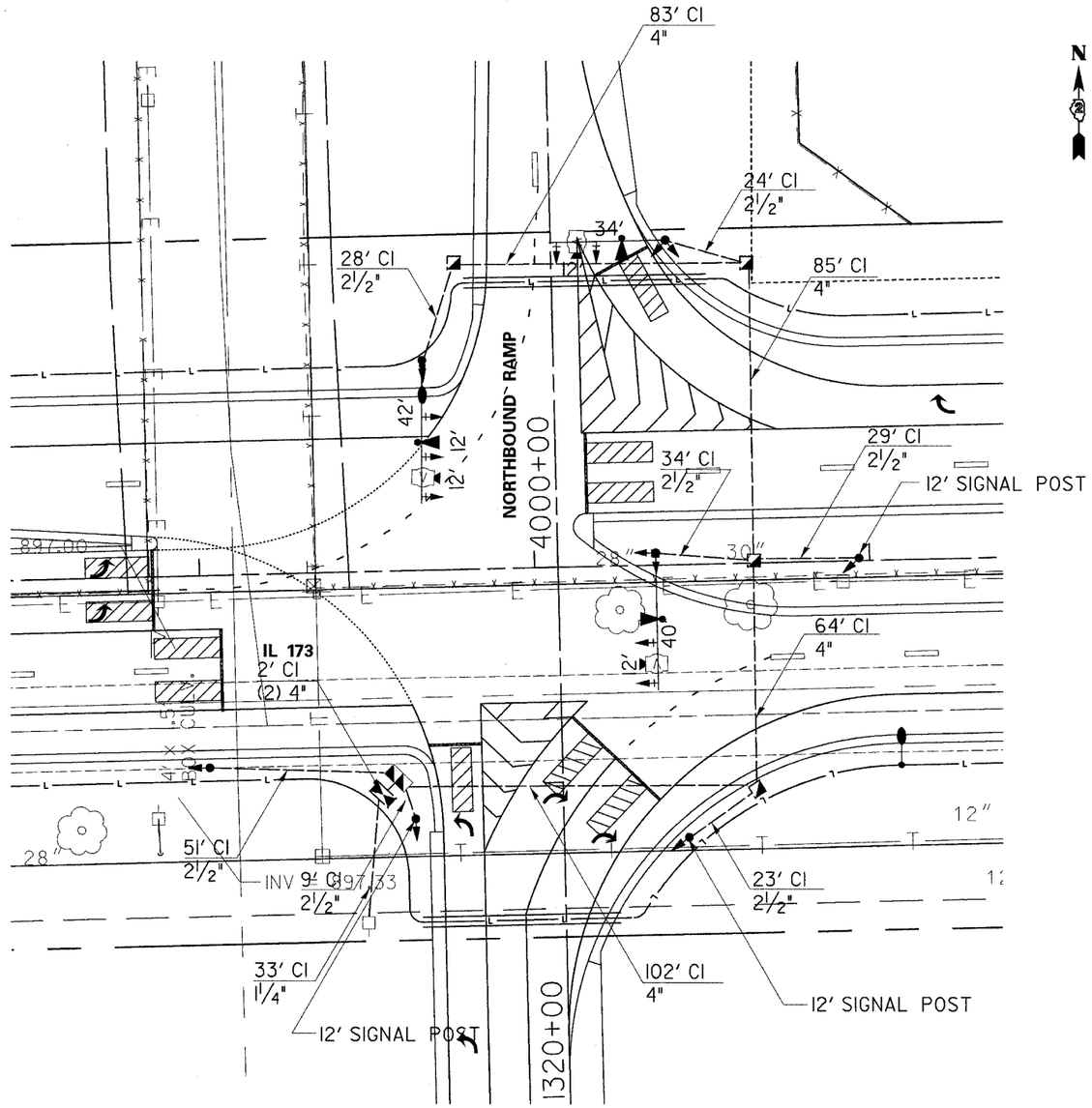
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

TRAFFIC SIGNALS

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	160
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

190/ IL 173



N

LEGEND

- CONTROLLER
- ALUMINUM MAST ARM ASSEMBLY AND POLE
- STEEL MAST ARM ASSEMBLY AND POLE
- SIGNAL HEAD AND POST
- SIGNAL HEAD WITH BACKPLATE
- PEDESTRIAN HEAD
- PEDESTRIAN PUSHBUTTON
- HANDHOLE
- JUNCTION BOX
- HEAVY-DUTY HANDHOLE
- DOUBLE HANDHOLE
- LUMINAIRE
- 5' - CI / 2" — CONDUIT INSTALLED, NON-METALLIC
  - UPPER NUMERAL INDICATES LENGTH
  - "CI" INDICATES CONDUIT INSTALLED, NON -METALLIC
  - WHETHER PUSHED OR TRENCHED
  - LOWER NUMERAL INDICATES SIZE OF CONDUIT
- MINIMUM VIDEO DETECTION ZONES

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

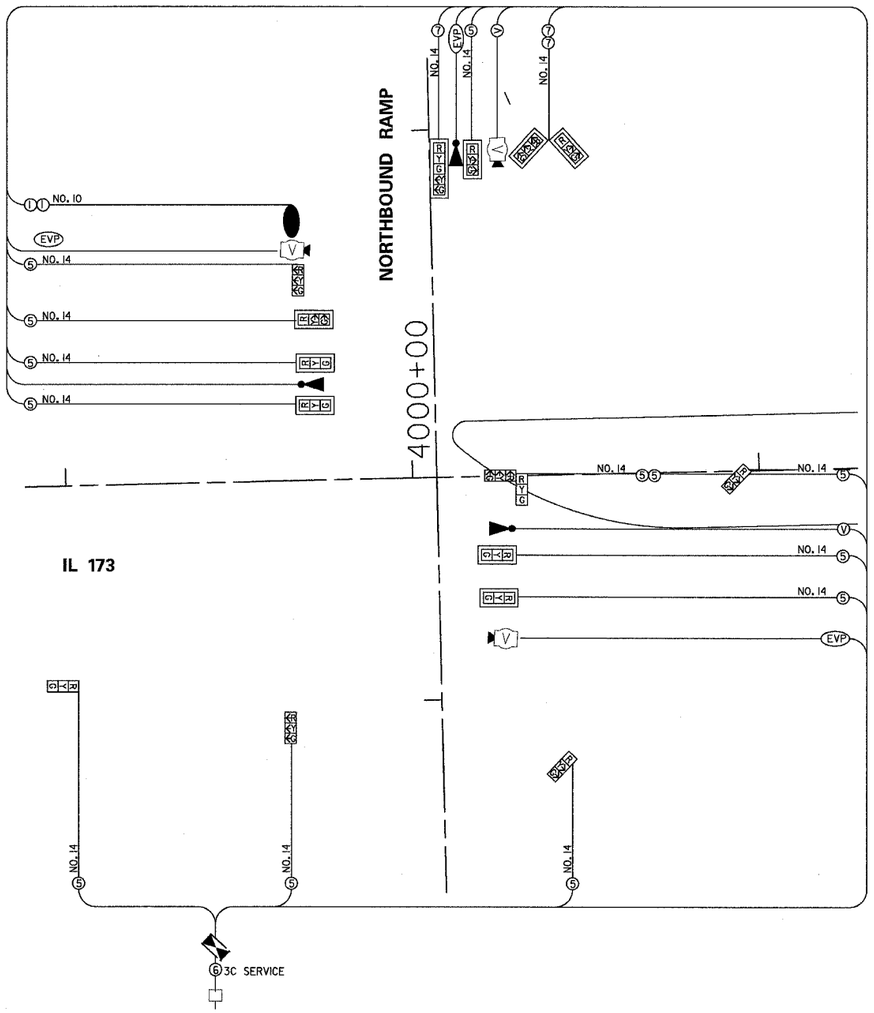
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

TRAFFIC SIGNALS

CONTRACT NO. 64594

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	161
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

190/ IL 173



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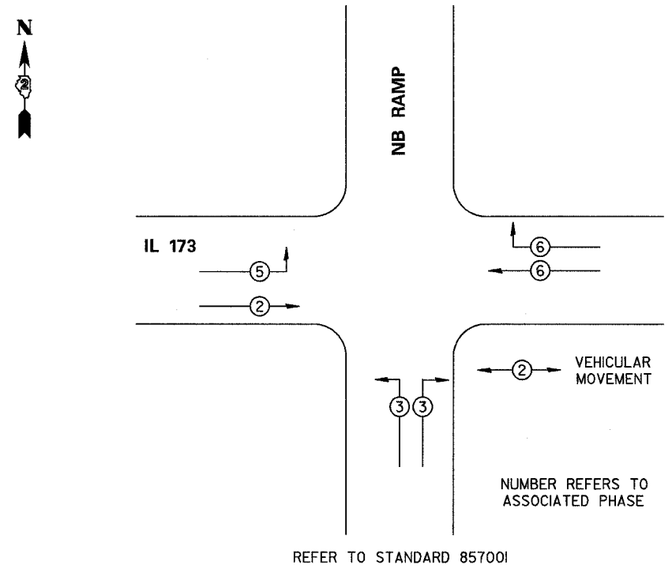


REFER TO STANDARD 857001

E-W MAJOR ROADWAY DETECTION ZONES		
ZONE	PHASE No.	DIRECTION
A	3	NB RIGHT TURN
B	3	NB LEFT TURN
C	6	WB PRESENT
D	6	WB RIGHT TURN
E	2	EB PRESENT
F	5	EB LEFT TURN

LEGEND

(2) INDICATES NUMBER OF NEW CONDUCTORS. ALL CABLE IS NO. 14 EXCEPT AS INDICATED. 'P' INDICATES PAIR CABLE

R Y G NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE

LUMINAIRE, 250 WATT

VIDEO VEHICLE DETECTION, SYSTEM

EMERGENCY PREEMPTION SYSTEM

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

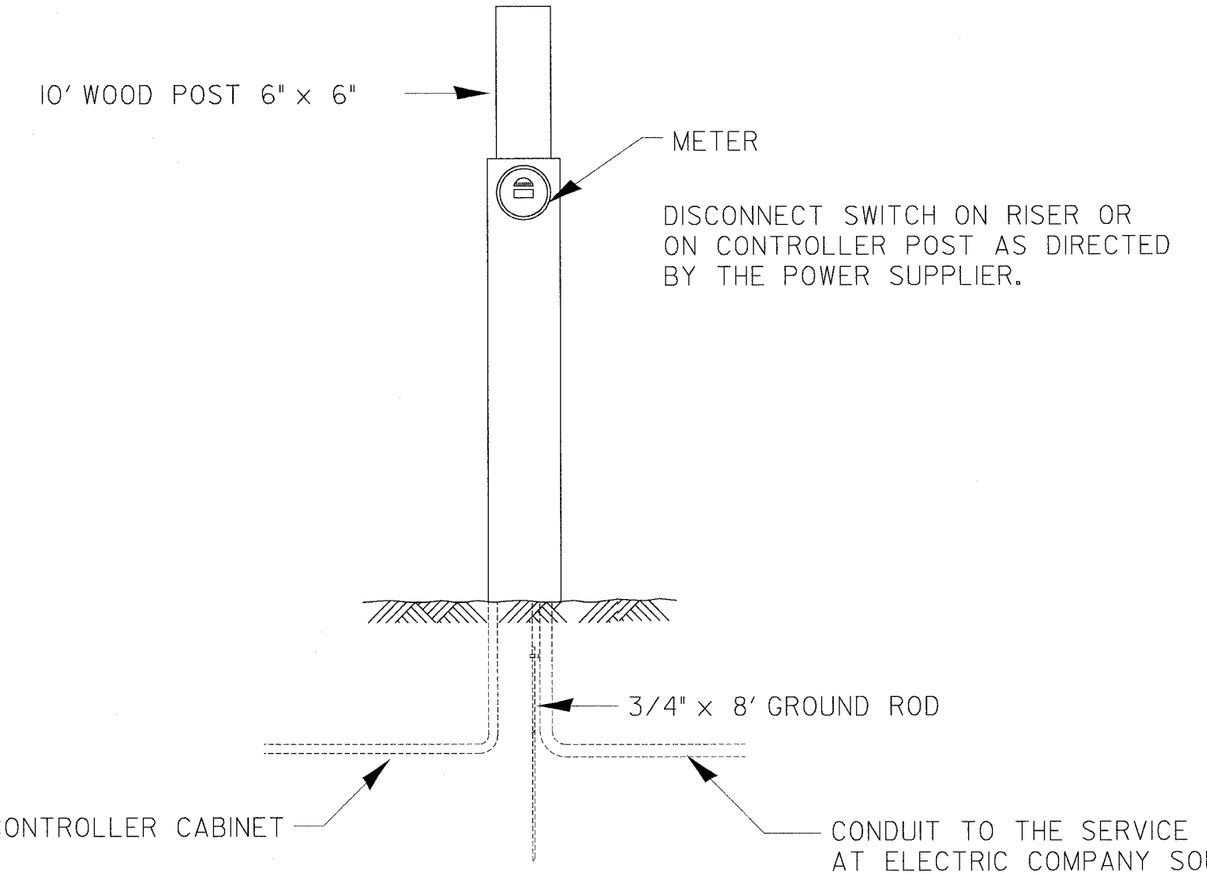
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

TRAFFIC SIGNALS

CONTRACT NO. 64594

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	162
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

190/ IL 173



NOTE: SERVICE INSTALLATION REQUIREMENTS MAY VARY FROM ONE SUPPLIER TO OTHER.

ELECTRIC SERVICE INSTALLATION, SPECIAL
(SEE SPECIAL PROVISIONS)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

TRAFFIC SIGNALS

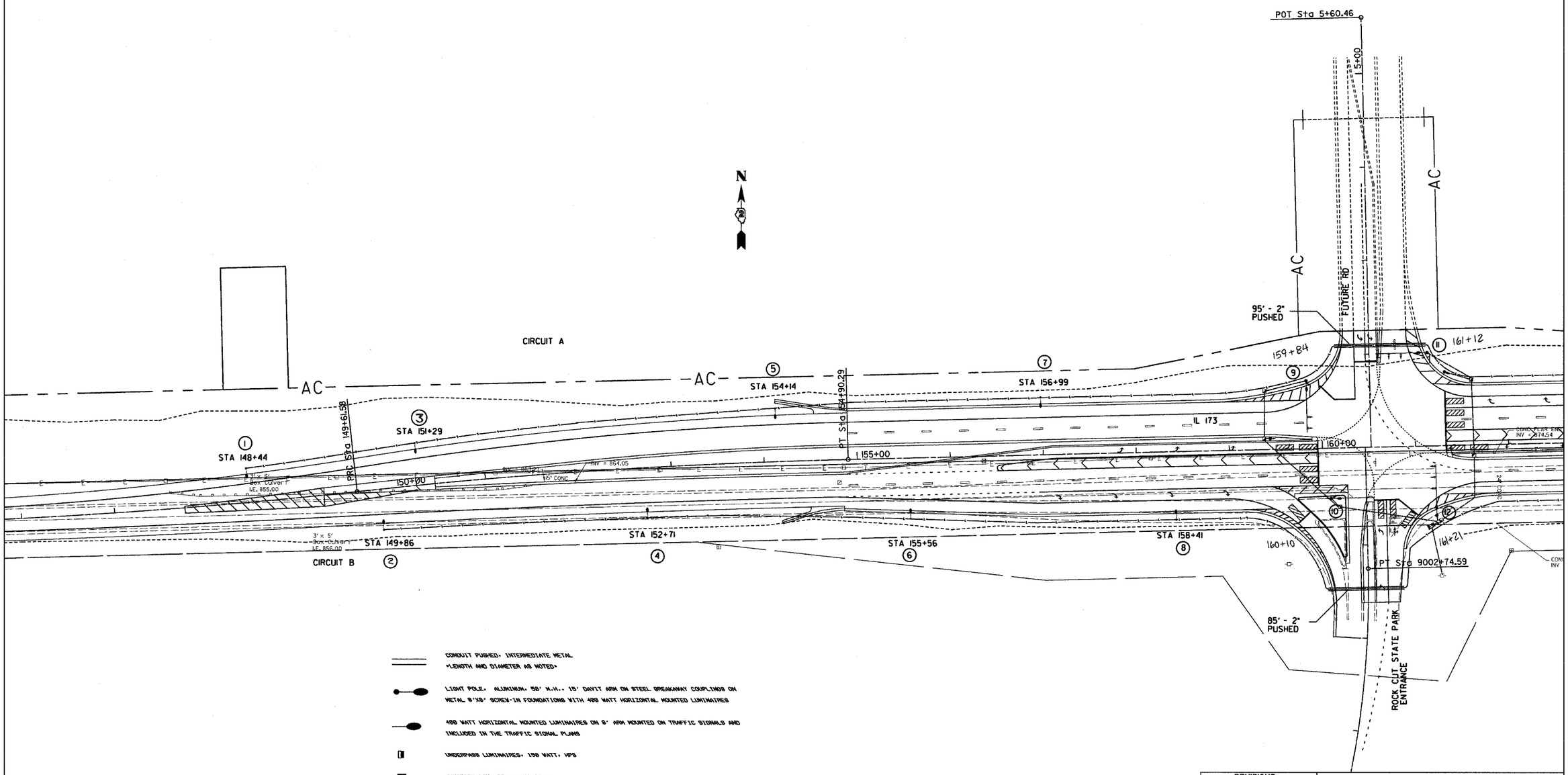
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	129 K	WINNEBAGO	585	163
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• FAI 90/IL 173

LIGHTING DETAILS



CONDUIT PUSHED. INTERMEDIATE METAL
LENGTH AND DIAMETER AS NOTED

LIGHT POLE. ALUMINUM. 50' M.H.. 15' DAVIT ARM ON STEEL BREAKAWAY COUPLINGS ON METAL 8'X8' SCREW-IN FOUNDATIONS WITH 400 WATT HORIZONTAL MOUNTED LUMINAIRES

400 WATT HORIZONTAL MOUNTED LUMINAIRES ON 8' ARM MOUNTED ON TRAFFIC SIGNALS AND INCLUDED IN THE TRAFFIC SIGNAL PLANS

UNDERPASS LUMINAIRES. 150 WATT. HPS

JUNCTION BOX. STAINLESS STEEL

UNIT DUCT 2 #8 XLP. 1 #8 XLPG. 1" POLYETHYLENE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE

DRAWN BY
CHECKED BY

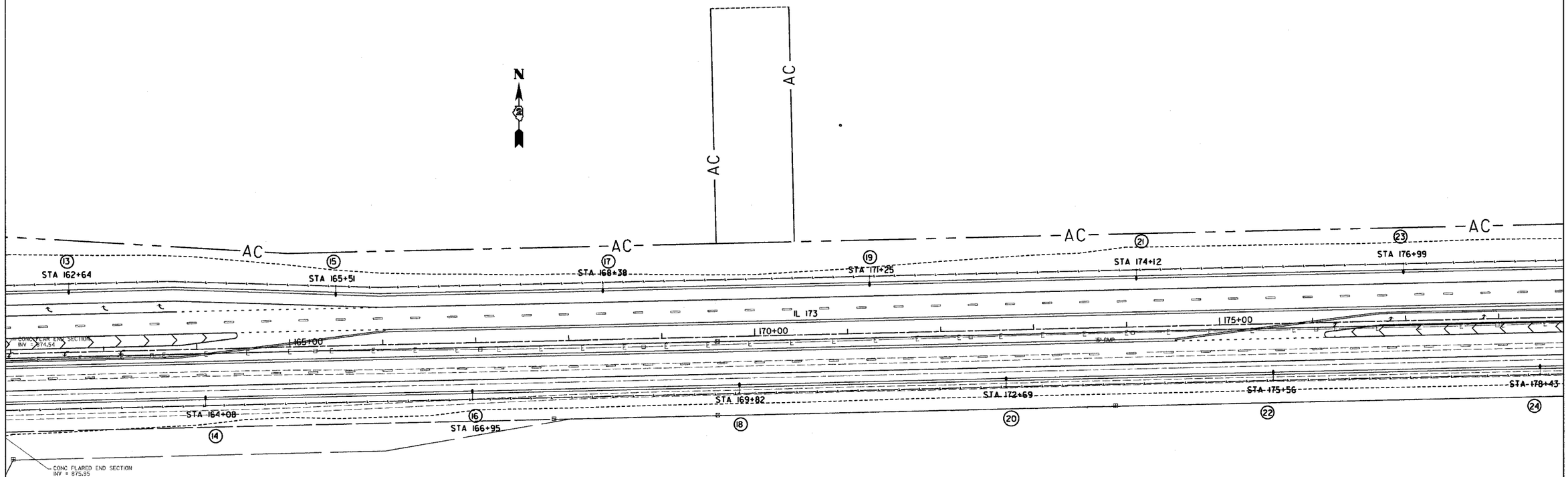
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	164
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* FAI 90/IL 173

LIGHTING DETAILS



CONDUIT PUSHED, INTERMEDIATE METAL
LENGTH AND DIAMETER AS NOTED

LIGHT POLE, ALUMINUM, 58' M.H., 15' DAVIT ARM ON STEEL BREAKAWAY COUPLINGS ON METAL 8'X8' SCREW-IN FOUNDATIONS WITH 400 WATT HORIZONTAL MOUNTED LUMINAIRES

400 WATT HORIZONTAL MOUNTED LUMINAIRES ON 8' ARM MOUNTED ON TRAFFIC SIGNALS AND INCLUDED IN THE TRAFFIC SIGNAL PLANS

UNDERPASS LUMINAIRES, 150 WATT, HPS

JUNCTION BOX, STAINLESS STEEL

UNIT DUCT 2 #8 XLP, 1 #8 XLPG, 1" POLYETHYLENE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = #DATE#
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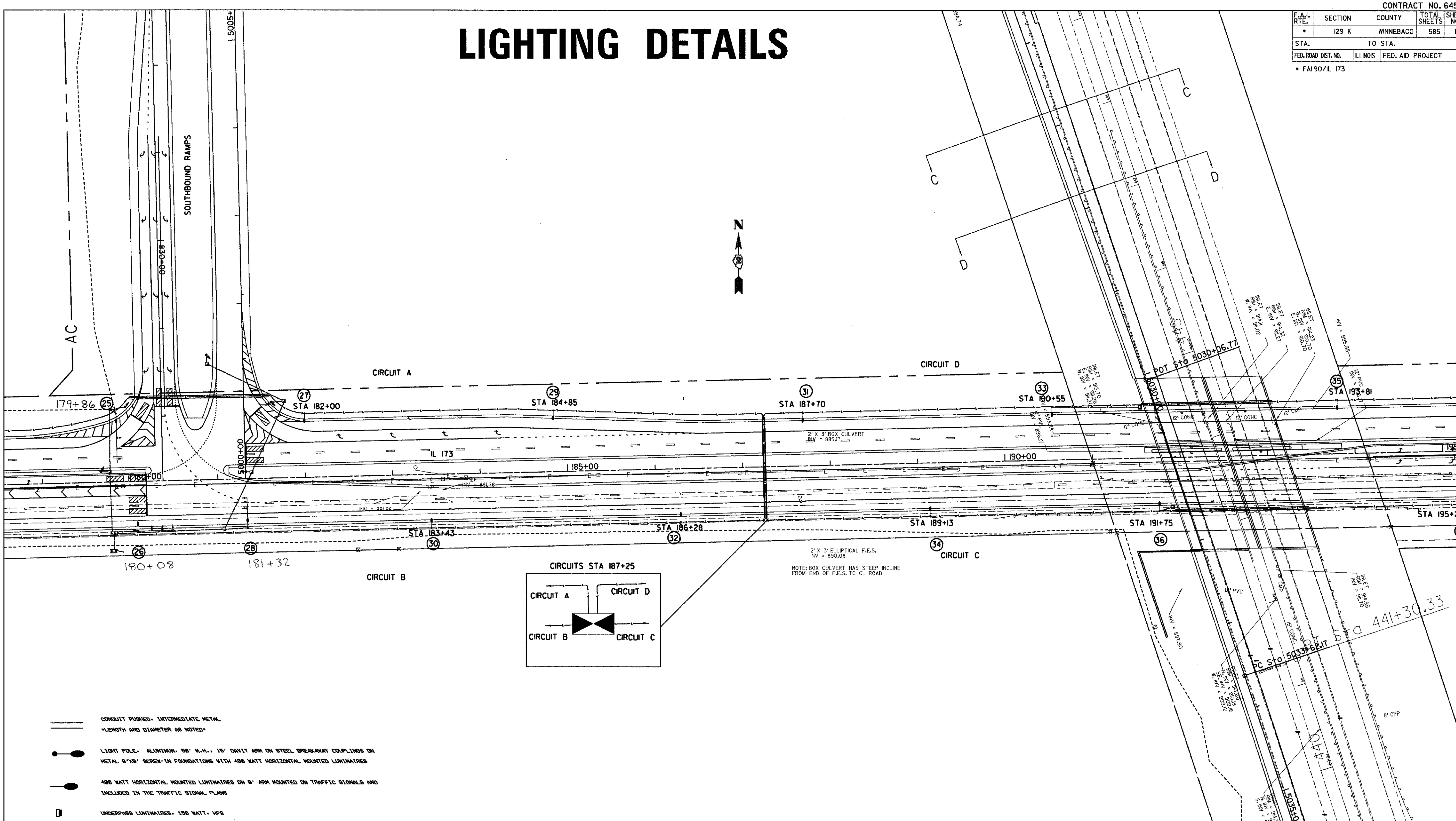
PLOT SCALE = #SCALE#
USER NAME = #USER#

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	165
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* FAI 90/IL 173

LIGHTING DETAILS



Symbol	Description
═══	CONDUIT PUSHED, INTERMEDIATE METAL *LENGTH AND DIAMETER AS NOTED*
●—⬬	LIGHT POLE, ALUMINUM, 50' M.H., 15' DAVIT ARM ON STEEL BREAKAWAY COUPLINGS ON METAL 8'X8' SCREW-IN FOUNDATIONS WITH 400 WATT HORIZONTAL MOUNTED LUMINAIRES
—⬬	400 WATT HORIZONTAL MOUNTED LUMINAIRES ON 8' ARM MOUNTED ON TRAFFIC SIGNALS AND INCLUDED IN THE TRAFFIC SIGNAL PLANS
▯	UNDERPASS LUMINAIRES, 150 WATT, HPS
⊡	JUNCTION BOX, STAINLESS STEEL
—ı—	UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" POLYETHYLENE

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

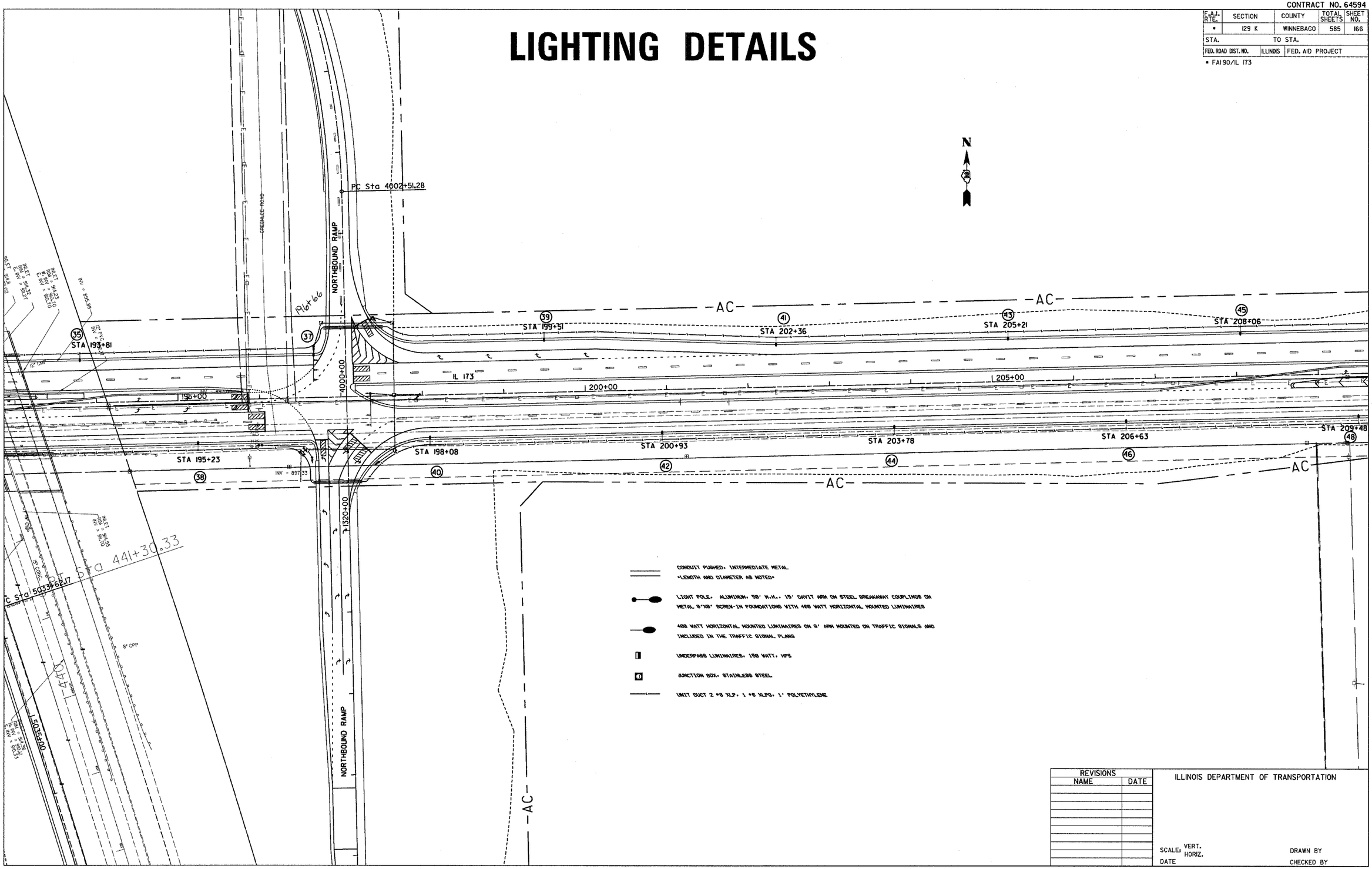
SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	166
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* FAI 90/IL 173

LIGHTING DETAILS



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

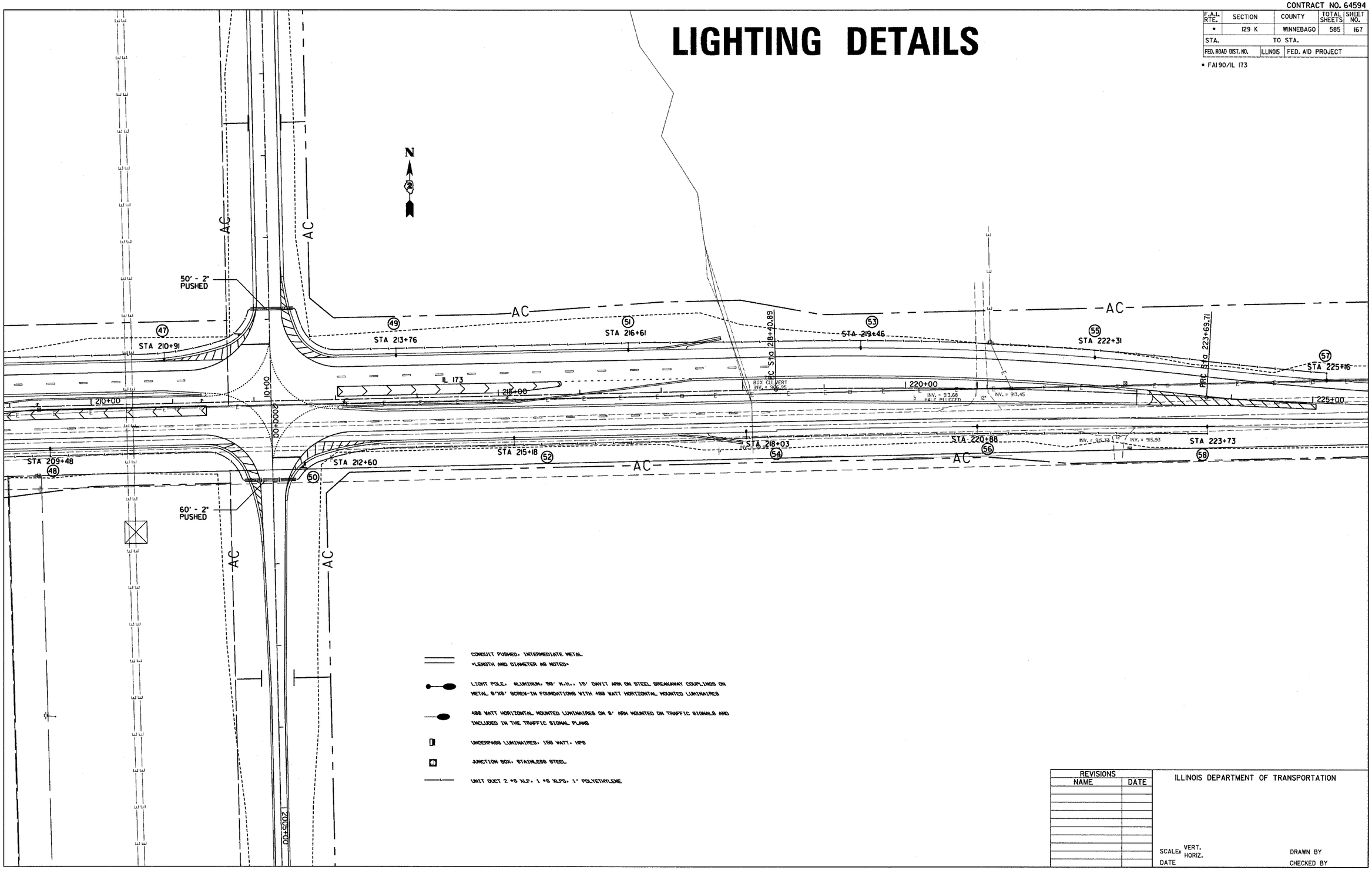
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129 K	WINNEBAGO	585	167
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* FAI 90/IL 173

LIGHTING DETAILS



CONDUIT PUSHED, INTERMEDIATE METAL
"LENGTH AND DIAMETER AS NOTED"

LIGHT POLE, ALUMINUM, 58' M.H., 15' DAVIT ARM ON STEEL BREAKAWAY COUPLINGS ON METAL 8"x8" SCREW-IN FOUNDATIONS WITH 400 WATT HORIZONTAL MOUNTED LUMINAIRES

400 WATT HORIZONTAL MOUNTED LUMINAIRES ON 6' ARM MOUNTED ON TRAFFIC SIGNALS AND INCLUDED IN THE TRAFFIC SIGNAL PLANS

UNDERPASS LUMINAIRES, 150 WATT, HPS

JUNCTION BOX, STAINLESS STEEL

UNIT DUCT 2 #8 XLP, 1 #8 XLPG, 1" POLYETHYLENE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = $DATE$
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PLOT SCALE = $SCALE$
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CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	129 K	WINNEBAGO	585	168
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• FAI 90/IL 173

LIGHTING DETAILS

TABULATION OF QUANTITIES

PAY CODE	ITEM	UNIT	TOTAL
	LIGHTING SUMMARY OF QUANTITIES IL 173 @ I-90		
81600315	UNIT DUCT, 2" 6 XLP, 1" 6 XLP GROUND 1" POLYETHYLENE	FOOT	15360
81020500	CONDUIT PUSHED, 2" DIA INTERMEDIATE METAL	FOOT	875
81020700	CONDUIT PUSHED, 3" DIA INTERMEDIATE METAL	FOOT	115
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	13750
83600357	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8'X8'	EACH	50
82102400	LUMINAIRE, SODUIM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	50
83004600	LIGHT POLE, ALUMINUM, 50 FT M.H., 15 FT. DAVIT ARM	EACH	50
83800650	BREAKAWAY DEVICE, COUPLING, STAINLESS STEEL SCREEN	EACH	200
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA. GALVANIZED STEEL	FOOT	20
81300800	JUNCTION BOX, STAIN STEEL, ATTACHED TO STRUCTURE 18" X 12" X 6"	EACH	2
82107300	UNDERPASS LIGHTING UNIT, 150 WATT HIGH PRESSURE SODUIM	EACH	8
82500540	LIGHTING CONTROLLER CB-RCS-100 AMP - 480 VOLT	EACH	1
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1

NOTES:
1. UNDERPASS LUMINAIRE SHALL INCLUDE ALL WORK FROM THE STAINLESS STEEL JUNCTION BOX TO THE UNDERPASS LUMINAIRE. THEREFORE THE CONDUIT ATTACHED TO THE STRUCTURE AFTER THE JUNCTION BOX, CONDUIT , CONDUCTOR ETC SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED WITH THE UNDERPASS LUMINAIRE.
2. ALL LUMINARIES ON COMBINATION TRAFFIC SIGNAL POLES ARE TO BE POWERED ON THEIR OWN CIRCUIT(S) OUT OF THE TRAFFIC SIGNAL CONTROLLER
3. A 5' STUDS SHALL BE REQUIRED FOR THE PLACEMENT OF POLES TO HELIX FOUNDATIONS. IN ADDITION A NUT SHALL BE SNUGGLY PLACED ON THE BOTTOM OF THE BASE PLATE OF THE FOUNDATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
UNDERPASS LUMINAIRE PERFORMANCE TABLE

ROADWAY DATA:	PAVEMENT WIDTH	96 FT
	NUMBER OF LANES	8
	MEDIAN WIDTH	N/A FT
	IES SURFACE CLASSIFICATION	R3
		0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	N/A FT
	MAST ARM LENGTH	N/A FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	N/A FT
LUMINAIRE DATA:	LAMP TYPE	HPS
	LAMP LUMENS	16000
	IES VERTICAL DESTRIBUTION	WALL MNT @ 14'
	IES CONTROL OF DISTRIBUTION	FC
	IES LATERAL DISTRIBUTION	FWD THRW
	TOTAL LIGHT LOSS FACTOR	0.69
LAYOUT DATA:	SPACING	70 FT
	CONFIGURATION	2 / PIER
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	-20 FT

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS EILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PREFORMANCE REQUIREMENTS ARE MET.

PERFORMANCE REQUIREMENTS

NOTE: THESE PERFORMANCES REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED ABOVE.

ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (E_{AVE})	9.0 LUX
	UNIFORMITY RATIO, (E_{AVE}/E_{MIN})	3
LUMINANCE:	AVERAGE LUMINANCE (L_{AVE})	0.6 Cd/m²
	UNIFORMITY RATIOS: (L_{AVE}/L_{MIN})	3.5
	(L_{MAX}/L_{MIN})	6
	MAXIMUM VEILING LUMINANCE RATIO: (L_V/L_{AVE})	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

ROADWAY DATA:	PAVEMENT WIDTH	96 FT
	NUMBER OF LANES	8
	MEDIAN WIDTH	N/A FT
	IES SURFACE CLASSIFICATION	R3
		0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	50 FT
	MAST ARM LENGTH	15 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	17 FT
LUMINAIRE DATA:	LAMP TYPE	HPS
	LAMP LUMENS	51000
	IES VERTICAL DESTRIBUTION	M
	IES CONTROL OF DISTRIBUTION	FC
	IES LATERAL DISTRIBUTION	3
	TOTAL LIGHT LOSS FACTOR	0.69
LAYOUT DATA:	SPACING	285 FT
	CONFIGURATION	stgg
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	-2 FT

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WELL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PREFORMANCE REQUIREMENTS ARE MET.

PERFORMANCE REQUIREMENTS

NOTE: THESE PERFORMANCES REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED

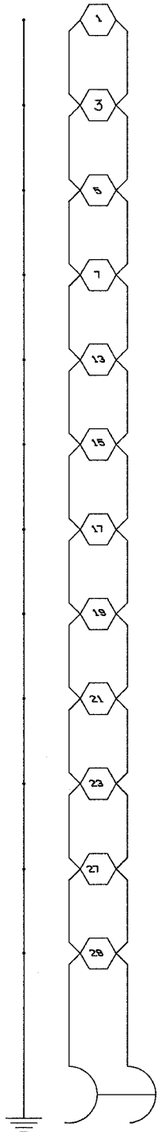
ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (E_{AVE})	9.0 LUX
	UNIFORMITY RATIO, (E_{AVE}/E_{MIN})	3
LUMINANCE:	AVERAGE LUMINANCE (L_{AVE})	0.6 Cd/m²
	UNIFORMITY RATIOS: (L_{AVE}/L_{MIN})	3.5
	(L_{MAX}/L_{MIN})	6
	MAXIMUM VEILING LUMINANCE RATIO: (L_V/L_{AVE})	0.3

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CONTRACT NO. 64594

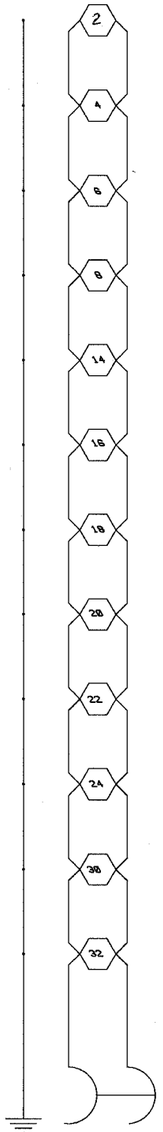
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	129 K	WINNEBAGO	585	169
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• FAI 90/IL 173



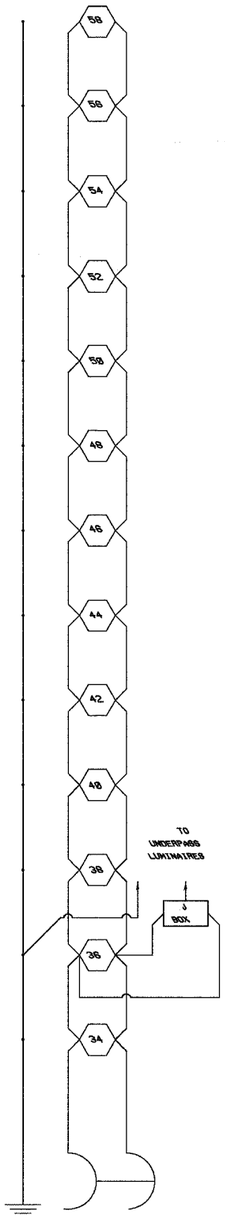
CIRCUIT A

2 POLE BREAKER
20 AMP



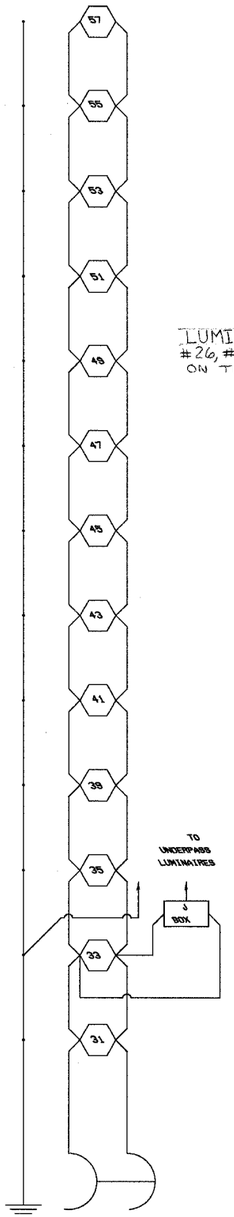
CIRCUIT B

2 POLE BREAKER
20 AMP



CIRCUIT C

2 POLE BREAKER
30 AMP



CIRCUIT D

2 POLE BREAKER
30 AMP

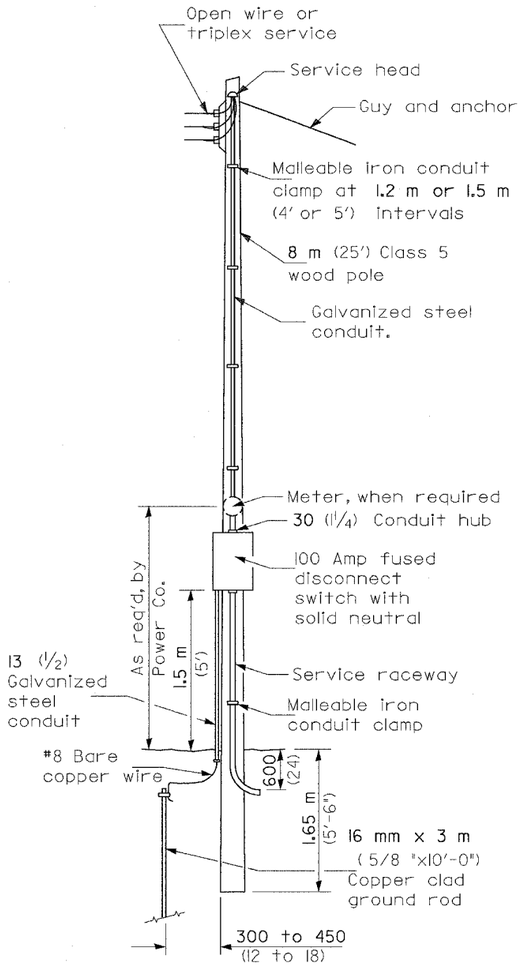
LUMINAIRES #9, #10, #11, #12, #25, #26, #28, & #37 ARE TO BE MOUNTED ON TRAFFIC SIGNAL POLES

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

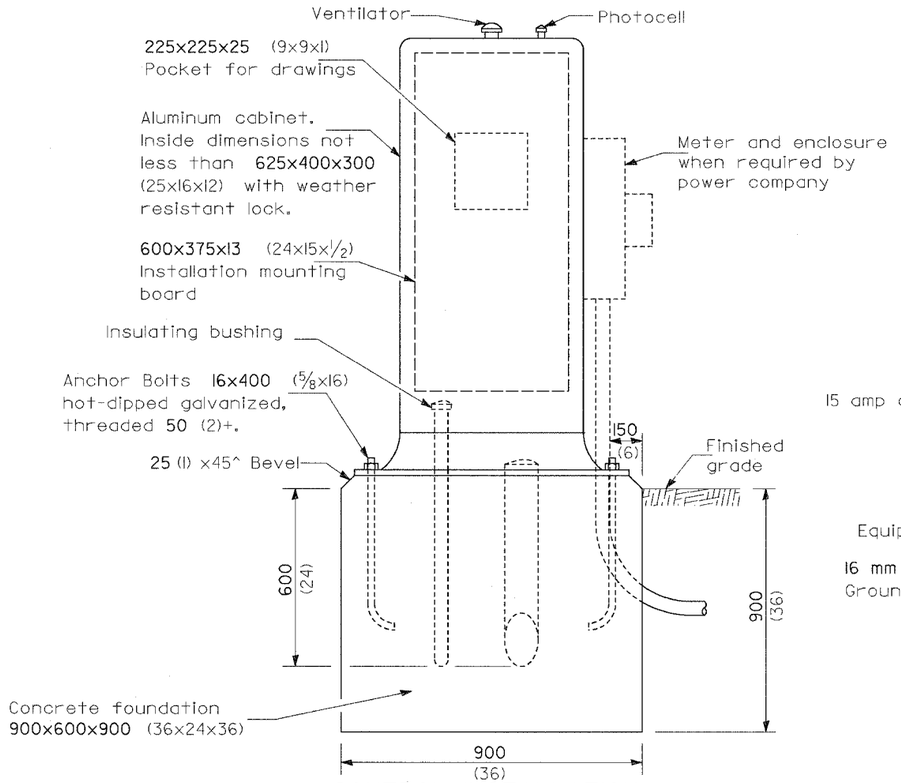
ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	170

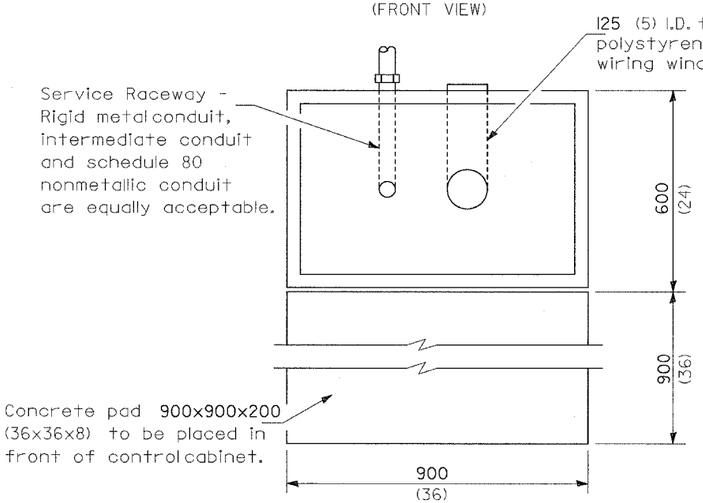


SERVICE POLE



CONTROL INSTALLATION

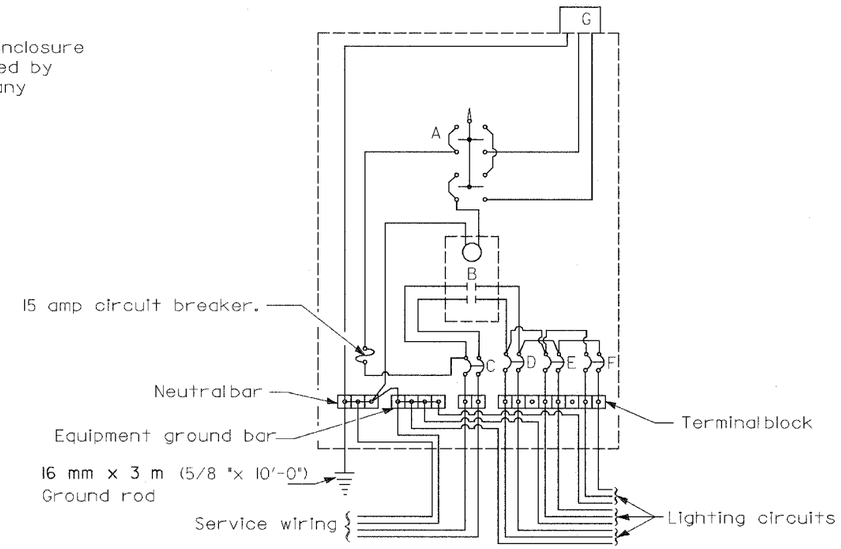
(FRONT VIEW)



FOUNDATION

(TOP VIEW)

A Selector switch
B 2 Pole 100 amp contactor
C 2 Pole 100 amp service disconnect
D,E,F 2 Pole 30 amp breakers
G Photocell w/integral surge arrester



WIRING DIAGRAM

GENERAL NOTES

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Exact location shall be established by the Engineer.

The underground service entrance wiring shall not exceed 46 m (150'). Total aerial and underground service between the control installation and primary transformer shall not exceed 76 m (250').

Raceways shall terminate 75 (3) above top of concrete foundation.

For 480 V. systems, a 480/120 V. control transformer will be required.

All dimensions are in millimeters unless otherwise shown.

☐ 240 V. SERVICE

☒ 480 V. SERVICE

DATE	REVISIONS

CONTROL INSTALLATION TYPE CB-RCS-100

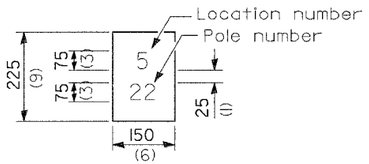
LGT005.DGN

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	171

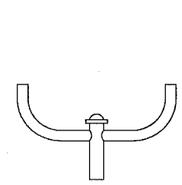
"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a 8.3 (⌀) diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional (1/4 to 3/8) turn with hex key (not provided). Install locknuts on set screws if threaded projection allows."

Pole shall meet AASHTO Standard Specifications for 128.72 km (80 mph) wind loading and 40.82 kg (90 lb.), .37 m² (4.0 sq. ft.) E.P.A. luminaire.

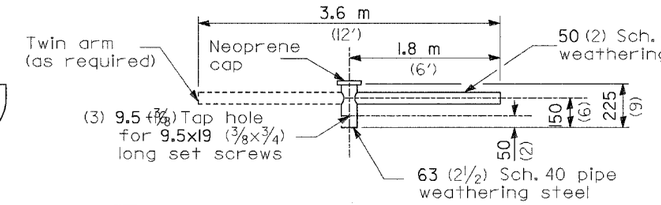


The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

The light pole identification shall be applied to sign base material as specified in section 1085.05 of the Standard Specifications, approximatey 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.

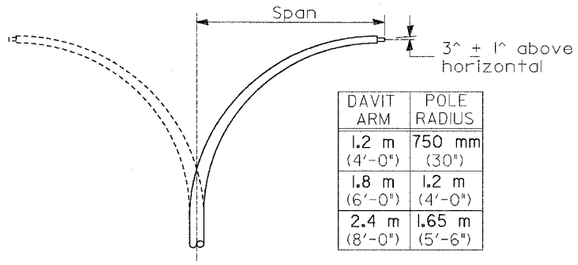


☐ TWIN TENON



☐ TENON MOUNT BRACKET ARM

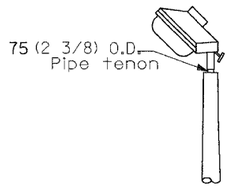
NOTE: Single or twin arm assembly shall be tilted 3^ above horizontal.



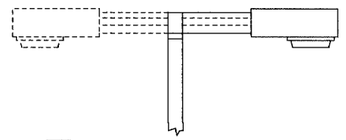
DAVIT ARM	POLE RADIUS
1.2 m (4'-0")	750 mm (30")
1.8 m (6'-0")	1.2 m (4'-0")
2.4 m (8'-0")	1.65 m (5'-6")

☐ DAVIT ARM (and or)

☐ DAVIT ARM-TWIN

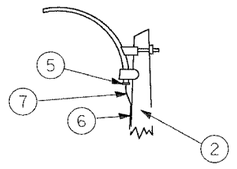


☐ TENON

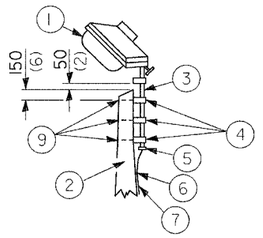


☐ SHORT BRACKET

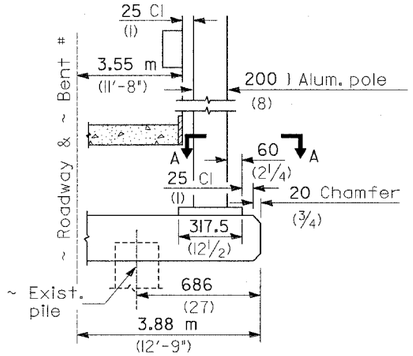
☐ SHORT BRACKET - TWIN



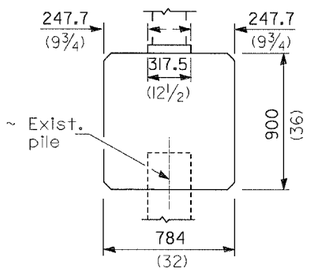
☐ MAST ARM



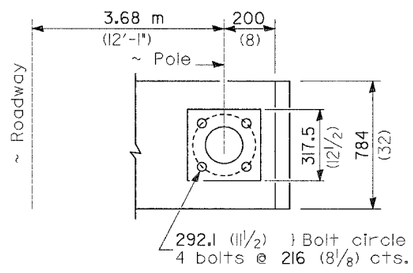
☐ TENON



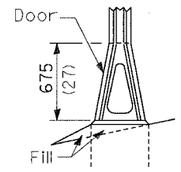
BENT # (Looking)



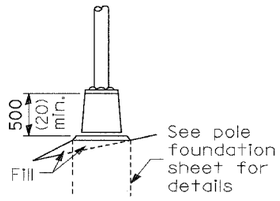
☐ BRIDGE PIER MOUNT



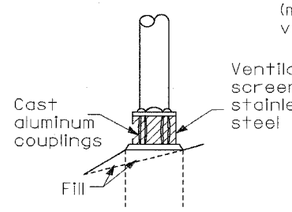
SECTION A-A



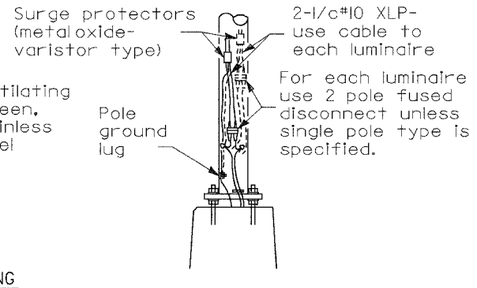
☐ STAINLESS STEEL FLAIR BASE



☐ TRANSFORMER BASE



☒ BREAKAWAY COUPLING



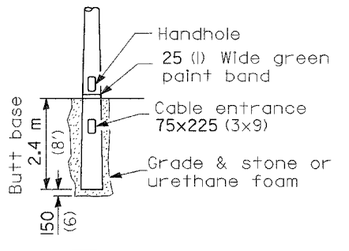
☐ ANCHOR

☒ FRANGIBLE

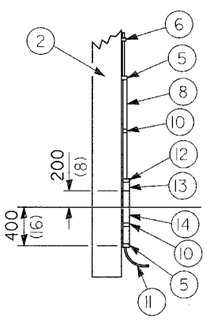
☒ METAL OR ☐ CONCRETE

Details for underground distribution if required

(1) Luminaire
(2) Wood pole, class 3 or better
(3) 63 (2 1/2) Galv. steel conduit
(4) Single offset pole band
(5) Conduit bushing
(6) Cable clamps on 600 (24) centers
(7) 2/c #12 Type use cable
(8) 25 (1) Galv. steel conduit 3.0 m (10') in length
(9) 16 (5/8) ⌀ hot dipped galvanized bolt with flat washer & locknut (3 req'd)
(10) Conduit clamps on 900 (36) centers
(11) Unit duct
(12) Threaded reducer
(13) "C" Condulet, threaded
(14) 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



☐ BUTT BASE



☐ POLE, WOOD

POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

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

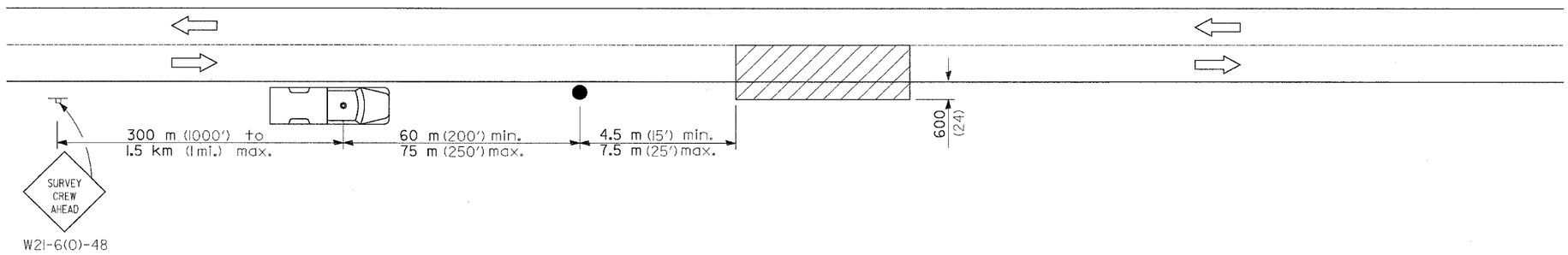
DATE	REVISIONS

POLE STANDARDS

LGT008.M32

CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	172



W21-6(0)-48

SYMBOLS

Work area

Sign on portable or permanent support

Truck with flashing amber light and dual emergency flashers

Flagger with traffic control sign

TYPICAL APPLICATIONS

Utility operations

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

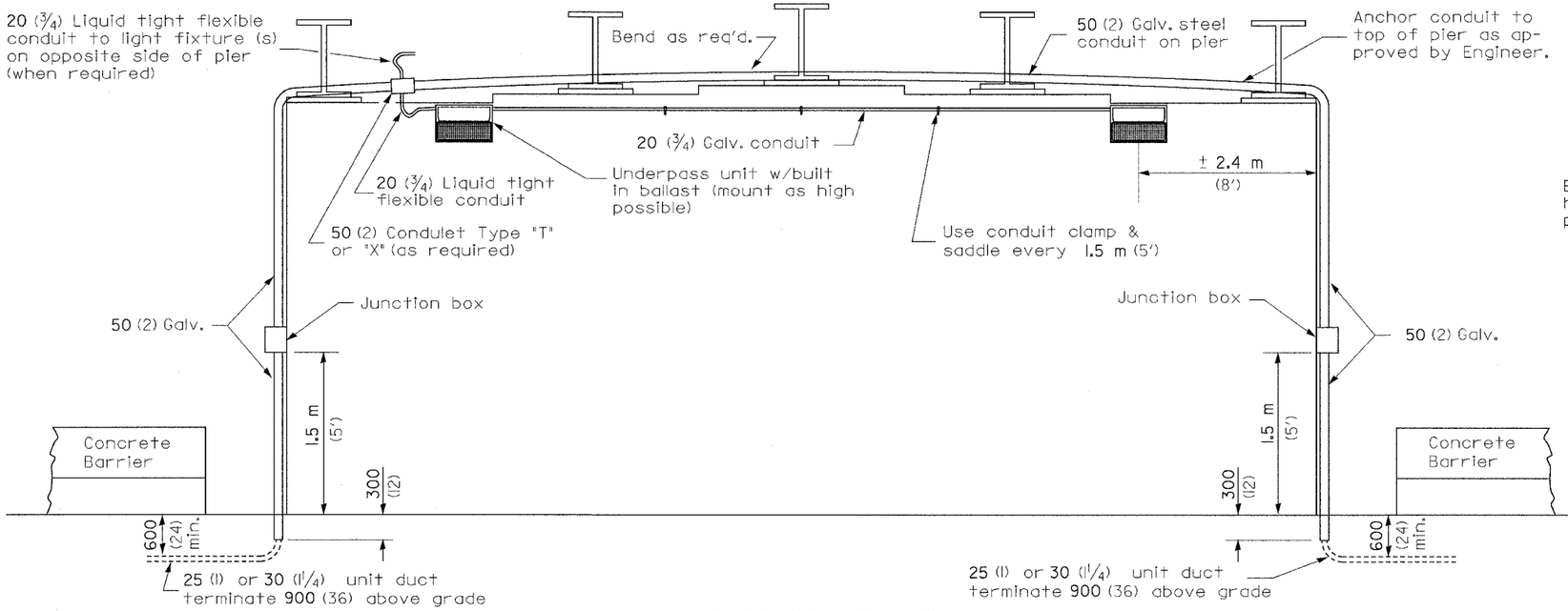
DATE	REVISIONS

DETAIL FOR NIGHTTIME LIGHTING INSPECTION

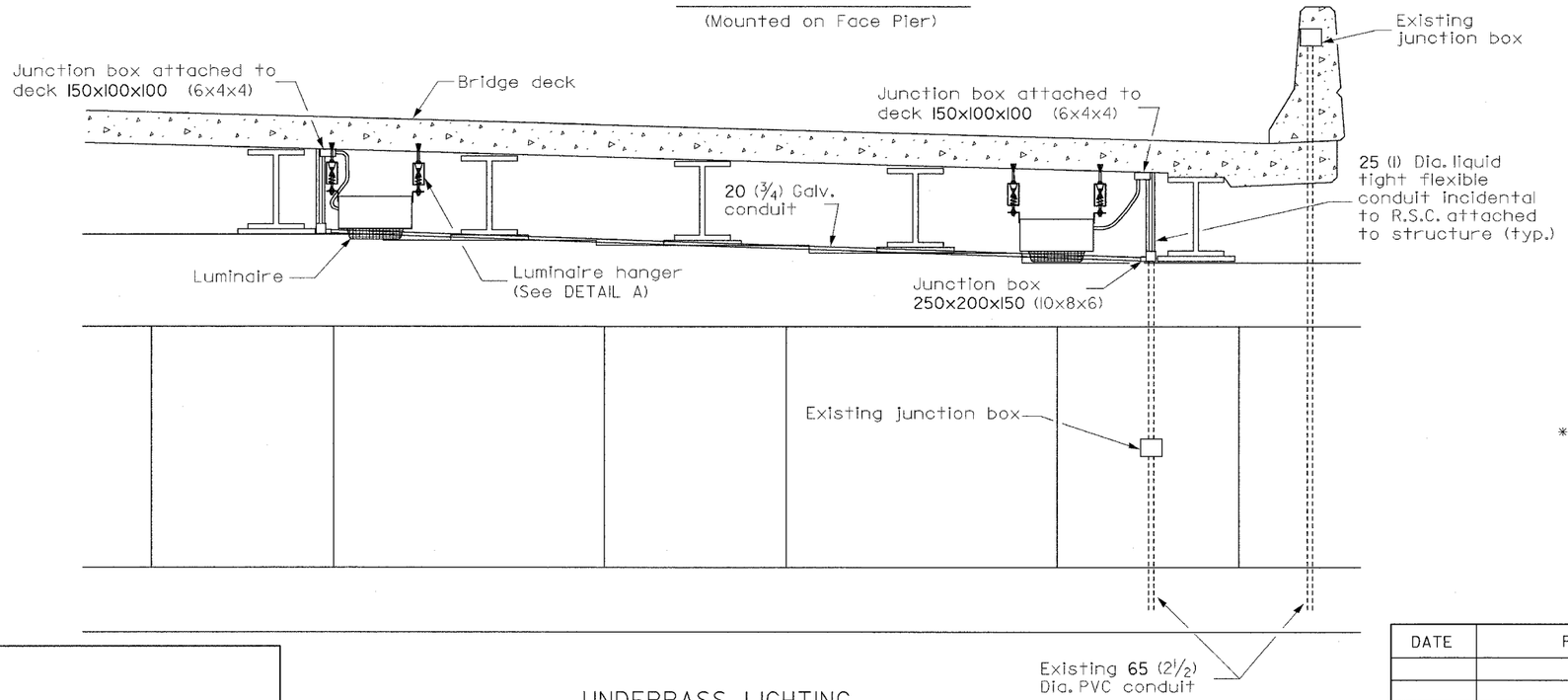
LGT017.M32

CONTRACT NO. 64594

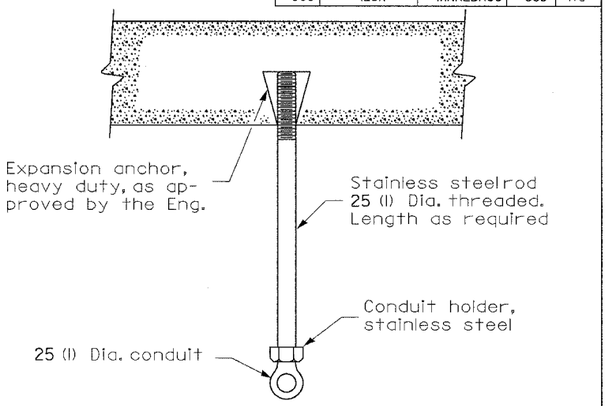
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	173



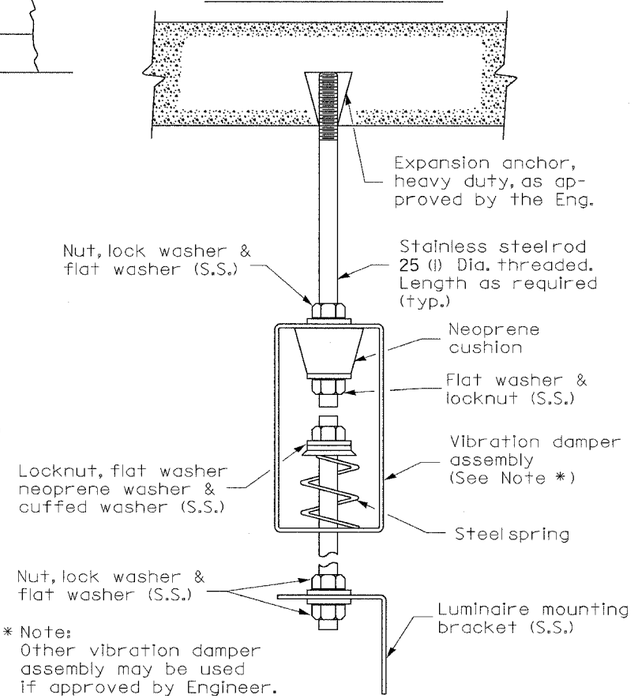
UNDERPASS LIGHTING
(Mounted on Face Pier)



UNDERPASS LIGHTING
(Mounted to Bridge Deck)



CONDUIT HANGER



LUMINAIRE HANGER ASSEMBLY DETAIL A

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

DATE	REVISIONS

UNDERPASS LIGHTING

LGT019.M32

CONTRACT NO. 64594

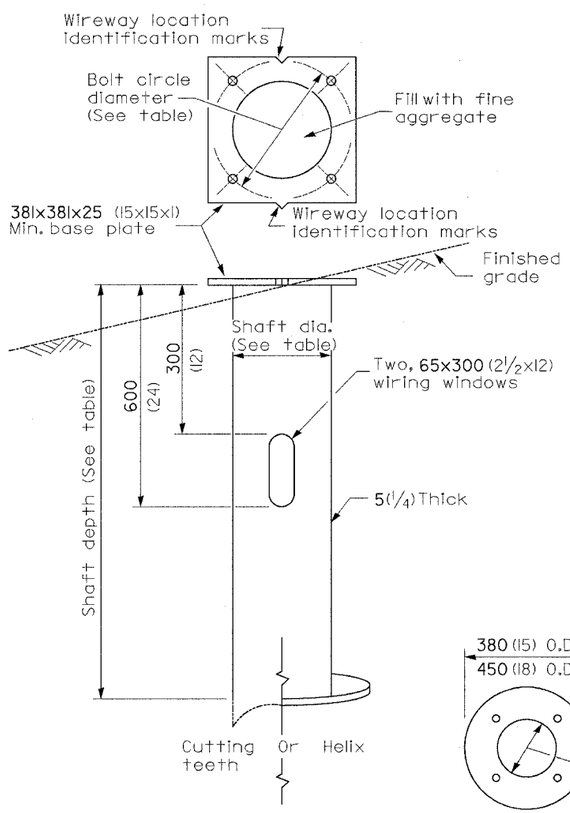
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	174

LIGHT POLE HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION SHAFT DIAMETER	STEEL FOUNDATION SHAFT DEPTH	CONCRETE FOUNDATION SHAFT DIAMETER	CONCRETE FOUNDATION SHAFT DEPTH	CONCRETE FOUNDATION ANCHOR ROD LENGTH *
≤ 9 m (30′)	292 mm (11½")	220 mm (8⅝")	1.83 m (6′-0")	600 mm (24")	1.52 m (5′-0")	1.45 m (4′-9")
9.4 m - 10.7 m (31′-35′)	292 mm (11½")	220 mm (8⅝")	1.83 m (6′-0")	600 mm (24")	1.67 m (5′-6")	1.60 m (5′-3")
11.9 m - 12.0 m (36′-40′)	381 mm (15")	220 mm (8⅝")	1.83 m ** (6′-0")	600 mm (24")	1.83 m (6′-0")	1.75 m (5′-9")
12.5 m - 13.7 m (41′-45′)	381 mm (15")	220 mm (8⅝")	1.83 m ** (6′-0")	600 mm (24")	1.98 m (6′-6")	1.90 m (6′-3")
14.0 m - 16.0 m (46′-50′)	381 mm (15")	2220 mm (8⅝")	2.44 m (8′-0")	600 mm (24")	2.13m (7′-0")	2.00 m (6′-9")

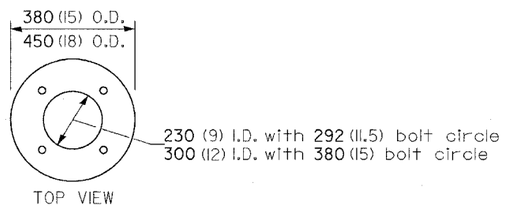
* Length does not include 100 (4) hook
** 220 mm x 2.44 m (8⅝"x 8′-0") for Twin luminaires

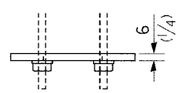
Notes:

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.



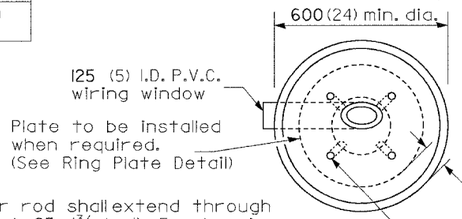
STEEL FOUNDATION





RING PLATE DETAIL

(When rock is encountered and foundation is shallower)



Notes:

Wireway may be on front, back, or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.

Top of schedule 40 PVC 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.

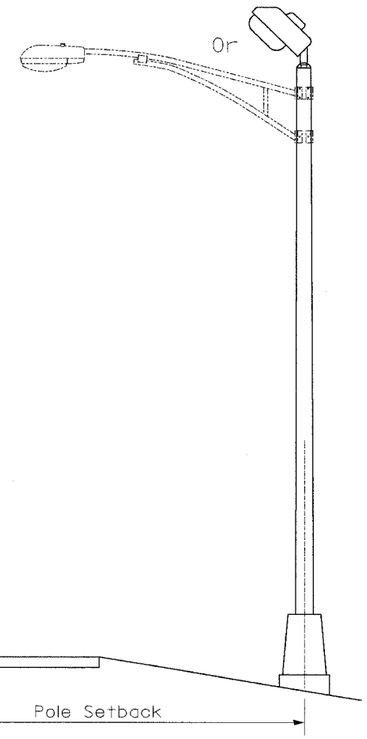
75 (3) Min. concrete cover on all steel

Anchor rod shall extend through nut 10 to 25 (⅜ to 1). For barrier or foundations located behind guardrail, use self-locking nut and flat washer. Do not use lock washer. Length above foundation shall be adjusted to accomodate breakaway devices furnished by the contractor for a specific installation.

25 (1) ∮ Steel anchor rod with 230 (9) of threads. See table for the required bolt circle diameter.

*** If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6).

CONCRETE FOUNDATION



Pole Foundation Setback:

For horizontal mounted luminaires, setback shall be a minimum of 6.1 m (20′) from edge of pavement.

For vertical mount luminaires, setback shall be a minimum of 9 m (30′) from edge of pavement. Poles shall be located 1.5 m (5′) behind guardrail or other protective barriers, or as directed by the Engineer.

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

DATE	REVISIONS

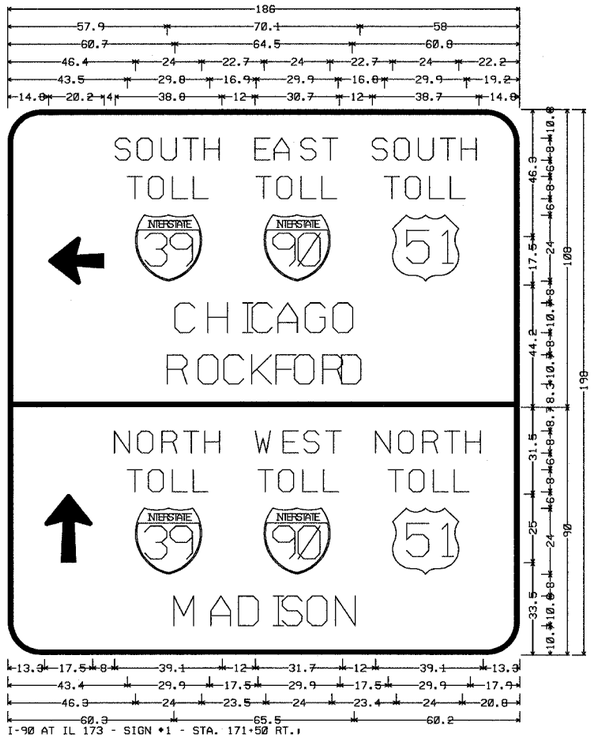
LIGHT POLE FOUNDATION

LGT836

CONTRACT NO. 64594

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	129K	WINNEBAGO	585	175
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 190/ IL 173



I-90 AT IL 173 - SIGN •1 - STA. 171+50 RT.,
12.0' RADIUS, 2.0' BORDER, WHITE ON GREEN,
ARROW CUSTOM - 20.3' 180•, [SOUTH] E MOD, [EAST] E MOD, [SOUTH] E MOD, [TOLL] E MOD,
[TOLL] E MOD, [TOLL] E MOD, [CHICAGO] E MOD, [ROCKFORD] E MOD,
12.0' RADIUS, 2.0' BORDER, WHITE ON GREEN,
ARROW CUSTOM - 25.0' 90•, [NORTH] E MOD, [WEST] E MOD, [NORTH] E MOD, [TOLL] E MOD,
[TOLL] E MOD, [TOLL] E MOD, [MADISON] E MOD,
TABLE OF LETTER AND OBJECT LEFTS.

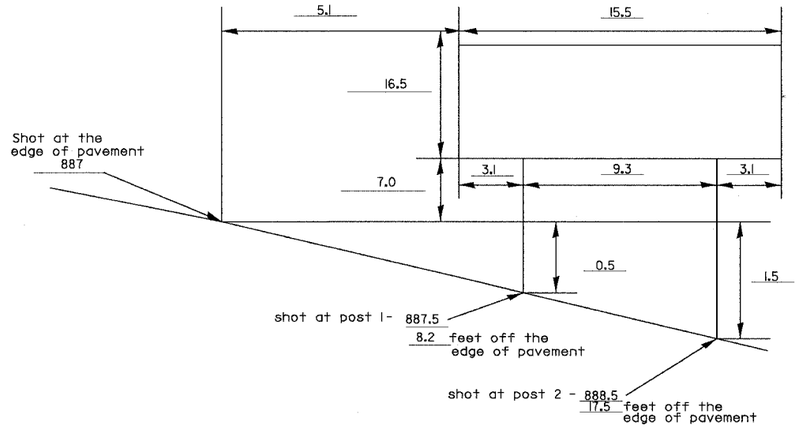
←	S	O	U	T	H	E	A	S	T	S	O	U	T	H	
14.6	89.0	47.5	55.6	63.7	71.4	89.0	96.8	106.8	114.4	132.8	140.8	149.2	157.2	164.8	
T	O	L	L	T	O	L	L	T	O	L	L				
43.2	51.2	59.6	67.7	90.2	97.8	106.8	114.4	136.2	144.8	153.2	160.8				
●	●	●													
46.4	93.1	139.8													
C	H	I	C	A	G	O									
60.7	72.7	83.6	88.6	98.1	108.1	118.2									
R	O	C	K	F	O	R	D								
57.1	69.1	78.5	88.6	97.5	104.1	114.4	121.2								
↑	N	O	R	T	H	W	E	S	T	N	O	R	T	H	
13.3	88.0	47.5	55.6	64.0	71.6	89.9	100.2	107.8	115.8	133.8	142.2	150.7	158.1	166.4	
T	O	L	L	T	O	L	L	T	O	L	L				
43.4	51.0	59.7	67.8	90.0	98.4	107.2	114.7	138.2	145.8	154.8	162.1				
●	●	●													
46.3	93.8	141.2													
M	A	D	I	S	O	N									
60.2	73.6	83.6	94.1	99.7	108.8	119.0									

STA 171+50 RT

SIGN DETAIL SHEET

District: 2
Route: IL 173
Exit No.
County: Winnebago
Sign Code No(s). 1

Direction of Travel: EB
Station Number: 171+50 Right
Milepost Number:
Offset from Edge of Pavement: 5.1



LENGTH OF POST 1- 16 FT 6 IN + 7 FT 6 IN - 2.5 IN = 23 FT 10 IN
LENGTH OF POST 2 - 16 FT 6 IN + 8 FT 6 IN - 2.5 IN = 24 FT 10 IN

Sign Panel(s) = 255.75 sq. ft.
Post Size = W 14 X 30
Concrete foundations = 1.50 cu. Yd. Each

L1(Excluding Stub Post) = 23 FT. 10 IN.
L2 (Excluding Stub Post) = 24 FT. 10 IN.
Stub Post lengths = 3 FT. 0 IN.

Total Post Weight (Including Stub Posts) = 1640.00 lbs.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

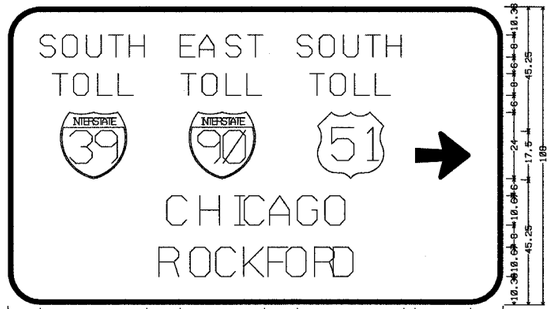
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

SIGN DETAILS

CONTRACT NO. 64594

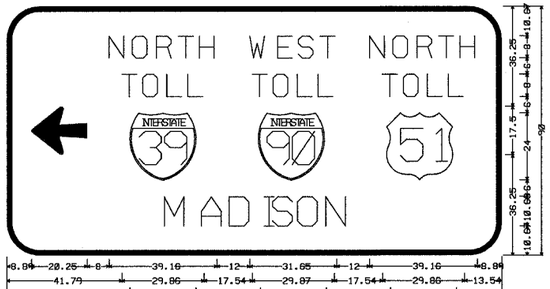
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	129K	WINNEBAGO	585	176
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• I90/ IL 173



I-90 AT IL 173 - SIGN #2 - STA. 188+00 LEFT, 12.00' RADIUS, 2.00' BORDER, WHITE ON GREEN;
[SOUTH] E MOD; [EAST] E MOD; [SOUTH] E MOD; [TOLL] E MOD; [TOLL] E MOD; [TOLL] E MOD; [CHICAGO] E MOD;
[ROCKFORD] E MOD; ARROW CUSTOM - 20.25' Ø';
TABLE OF WIDTHS AND SPACES.

STA 188+00 LT



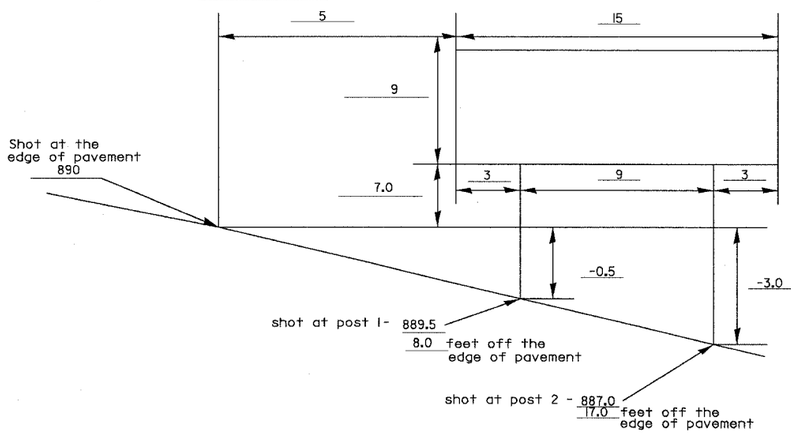
I-90 AT IL 173 - SIGN #3 - STA. 188+00 RIGHT, 12.00' RADIUS, 2.00' BORDER, WHITE ON GREEN;
ARROW CUSTOM - 20.25' 180°; [NORTH] E MOD; [WEST] E MOD; [NORTH] E MOD; [TOLL] E MOD; [TOLL] E MOD;
[TOLL] E MOD; [MADISON] E MOD;
TABLE OF WIDTHS AND SPACES.

STA 188+00 RT

SIGN DETAIL SHEET

District: 2
Route: IL 173
Exit No.
County: Winnebago
Sign Code No(s). 1

Direction of Travel: EB
Station Number: 188+00 LEFT
Milepost Number:
Offset from Edge of Pavement: 5



LENGTH OF POST 1- 9 FT 0 IN + 6 FT 6 IN - 2.5 IN = 15 FT 3 IN
LENGTH OF POST 2 - 16 FT 6 IN + 8 FT 6 IN - 2.5 IN = 24 FT 10 IN

Sign Panel(s) = 135.00 sq. ft.
Post Size = W 8 X 18
Concrete foundations = 0.70 cu. Yd. Each

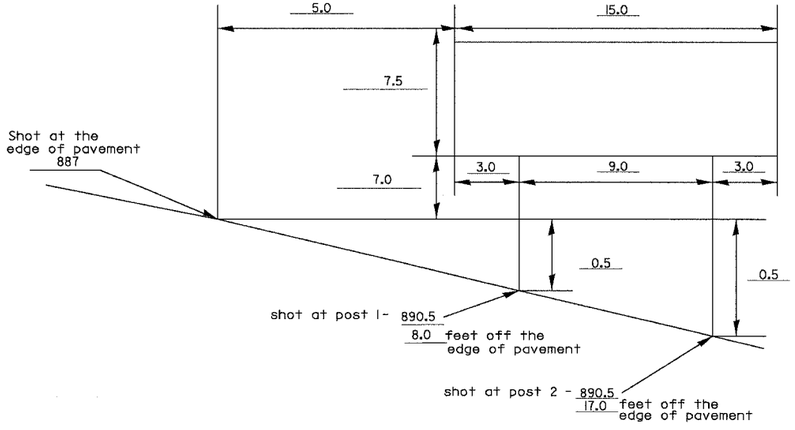
L1(Excluding Stub Post) = 15 FT. 3 IN.
L2 (Excluding Stub Post) = 12 FT. 9 IN.
Stub Post lengths = 2 FT. 6 IN.

Total Post Weight (Including Stub Posts) = 594.00 lbs.

SIGN DETAIL SHEET

District: 2
Route: IL 173
Exit No.
County: Winnebago
Sign Code No(s). 1

Direction of Travel: EB
Station Number: 188+00 RIGHT
Milepost Number:
Offset from Edge of Pavement: 5



LENGTH OF POST 1- 7 FT 6 IN + 7 FT 6 IN - 2.5 IN = 14 FT 9 IN
LENGTH OF POST 2 - 7 FT 6 IN + 7 FT 6 IN - 2.5 IN = 14 FT 9 IN

Sign Panel(s) = 112.50 sq. ft.
Post Size = W 6 X 15
Concrete foundations = 0.70 cu. Yd. Each

L1(Excluding Stub Post) = 14 FT. 9 IN.
L2 (Excluding Stub Post) = 14 FT. 9 IN.
Stub Post lengths = 2 FT. 6 IN.

Total Post Weight (Including Stub Posts) = 517.50 lbs.

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

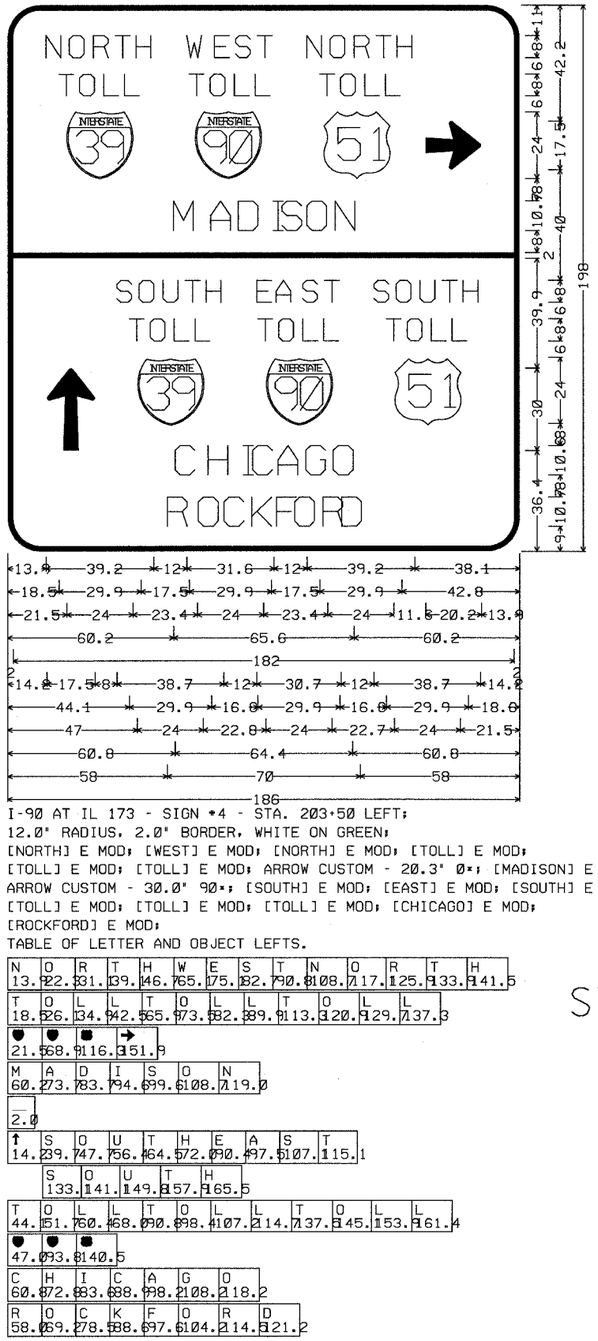
ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

CONTRACT NO. 64594

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	129K	WINNEBAGO	585	177
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 190/ IL 173



I-90 AT IL 173 - SIGN #4 - STA. 203+50 LEFT;
12.0" RADIUS, 2.0" BORDER, WHITE ON GREEN;
[NORTH] E MOD; [WEST] E MOD; [NORTH] E MOD; [TOLL] E MOD;
[TOLL] E MOD; [TOLL] E MOD; ARROW CUSTOM - 20.3" Ø×; [MADISON] E MOD;
ARROW CUSTOM - 30.Ø" 90×; [SOUTH] E MOD; [EAST] E MOD; [SOUTH] E MOD;
[TOLL] E MOD; [TOLL] E MOD; [TOLL] E MOD; [CHICAGO] E MOD;
[ROCKFORD] E MOD;
TABLE OF LETTER AND OBJECT LEFTS.

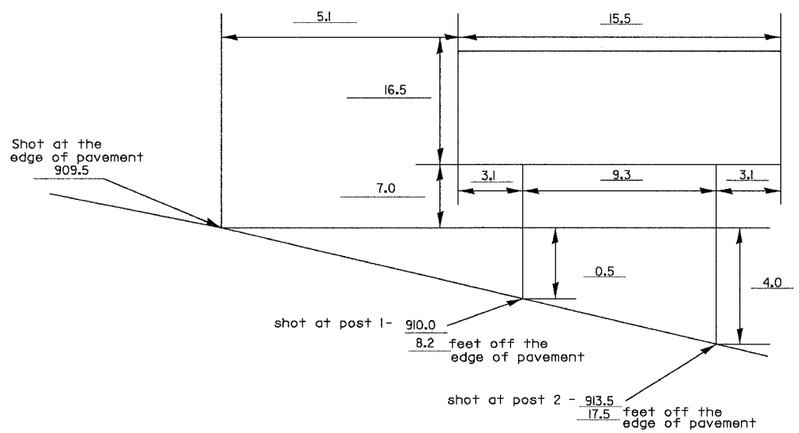
N	O	R	T	H	W	E	S	T	N	O	R	T	H	
13.2	22.3	31.1	39.	46.7	65.1	75.1	82.7	90.8	108.7	117.	125.9	133.9	141.5	
T	O	L	L	T	O	L	L	T	O	L	L			
18.5	26.	34.9	42.5	65.9	73.5	82.3	89.9	113.3	120.9	129.	137.3			
●	●	■	→											
21.5	68.9	116.3	151.9											
M	A	D	I	S	O	N								
60.2	73.7	83.7	94.6	99.6	108.7	119.0								
2.0														
↑	S	O	U	T	H	E	A	S	T					
14.2	39.7	47.7	56.4	64.5	72.0	80.4	97.5	107.	115.1					
	S	O	U	T	H									
	133.	141.	149.8	157.9	165.5									
T	O	L	L	T	O	L	L	T	O	L	L			
44.1	51.7	60.4	68.0	90.8	98.4	107.2	114.7	137.5	145.	153.9	161.4			
●	●	■												
47.0	93.8	140.5												
C	H	I	C	A	G	O								
60.8	72.8	83.6	88.9	98.2	108.2	118.2								
R	O	C	K	F	O	R	D							
58.0	69.2	78.5	88.6	97.6	104.2	114.5	121.2							

STA 203+50 LT

SIGN DETAIL SHEET

District: 2
Route: IL 173
Exit No.
County: Winnebago
Sign Code No(s). 1

Direction of Travel: EB
Station Number: 203+50 LEFT
Milepost Number:
Offset from Edge of Pavement: 5.1



LENGTH OF POST 1- 16 FT 6 IN + 7 FT 6 IN - 2.5 IN = 23 FT 10 IN
LENGTH OF POST 2 - 16 FT 6 IN + 11 FT 0 IN - 2.5 IN = 27 FT 4 IN

Sign Panel(s) = 255.75 sq. ft.
Post Size = W 14 X 38
Concrete foundations = 2.09 cu. Yd. Each

L1 (Excluding Stub Post) = 23 FT. 10 IN.
L2 (Excluding Stub Post) = 27 FT. 4 IN.
Stub Post lengths = 3 FT. 6 IN.

Total Post Weight (Including Stub Posts) = 2210.33 lbs.

REVISIONS NAME	DATE

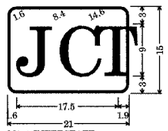
ILLINOIS DEPARTMENT OF TRANSPORTATION

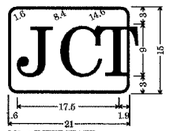
SCALE: VERT.
HORIZ.
DATE

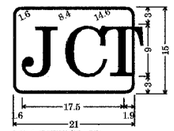
DRAWN BY
CHECKED BY

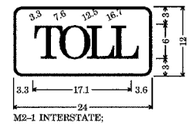
PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

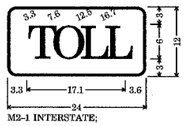
SIGN DETAILS

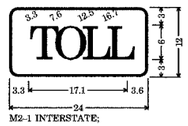


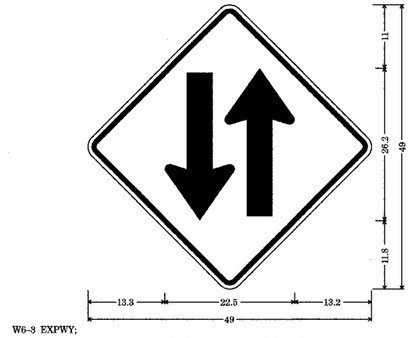


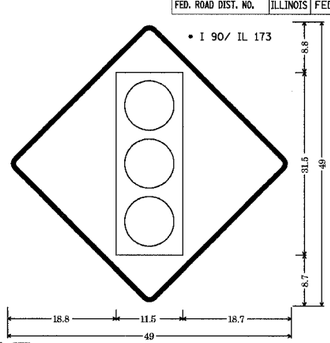


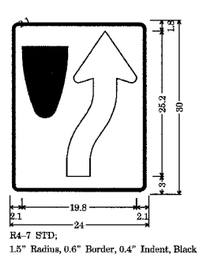












CONTRACT NO. 64594

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	129K	WINNEBAGO	585	178
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I 90/ IL 173

NOTE: USE 4" X 6" X 20' WOOD POSTS FOR SIGNS.
ALL SIGNS TO BE MOUNTED AT A 5' MIN. BOTTOM.
ANY EXCESS WOOD POST SHALL BE CUT OFF
AND THIS SHALL BE INCLUDED IN THE COST OF EACH WOOD POST

KURT GLAZIER, 815-284-5478, OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED TWO (2) WEEKS PRIOR TO THE LOCATION AND PLACEMENT OF SIGNS ON THIS PROJECT.

M2-1 INTERSTATE;
1.5" Radius, 0.5" Border, White on Blue;
[JCT] C 125} spacing;

M2-1 INTERSTATE;
1.5" Radius, 0.5" Border, White on Blue;
[JCT] C 125} spacing;

M2-1 INTERSTATE;
1.5" Radius, 0.5" Border, White on Blue;
[JCT] C 125} spacing;

M2-1 INTERSTATE;
1.5" Radius, 0.5" Border, White on Blue;
[TOLL] D 50} spacing;

M2-1 INTERSTATE;
1.5" Radius, 0.5" Border, White on Blue;
[TOLL] D 50} spacing;

M2-1 INTERSTATE;
1.5" Radius, 0.5" Border, White on Blue;
[TOLL] D 50} spacing;

M2-1 21 X15 BLUE
M4-I100 24 X 12 BLUE
M1-1 24 X 24 BLUE
STA 166+00 RT
STA 206+50 LT

M2-1 21 X15 BLUE
M4-I100 24 X 12 BLUE
M1-1 24 X 24 BLUE
STA 166+00 RT
STA 206+50 LT

M2-1 21 X15 BLUE
M4-I100 24 X 12 BLUE
M1-1 24 X 24 BLUE
STA 166+00 RT
STA 206+50 LT

TABULATION OF SIGN QUANTITIES

PAY CODE	ITEM	UNIT	TOTAL
72700100	STRUCTURAL STEEL SIGN SUPPORT BREAKAWAY	POUND	4961.83
73000100	WOOD SIGN SUPPORT	FOOT	580
72000100	SIGN PANEL TYPE I	SQ FT	172
72000200	SIGN PANEL TYPE II	SQ FT	72
72000300	SIGN PANEL TYPE III	SQ FT	714
73400100	CONCRETE FOUNDATION	CU YD	11

W6-3 EXPWY;
36.0" across sides 2.3" Radius, 0.9" Border, 0.6" Indent, Black on Yellow;

W6-3 36x 36
STA 147+00 LT
STA 225+00 RT

W3-3 MIN & STD;
36.0" across sides 2.3" Radius, 0.9" Border, 0.6" Indent, Black on Yellow;

W3-3 48 X 48
STA 149+50 LT
STA 169+00 LT
STA 193+50 RT
STA 209+00 RT

R4-7 STD;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;

R4-7 24 X 30
STA 151+00 MEDIAN
STA 182+00 MEDIAN
SB RAMP MEDIAN
STA 195+00 MEDIAN
STA 211+00 MEDIAN
STA 213+50 MEDIAN
STA 222+50 MEDIAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

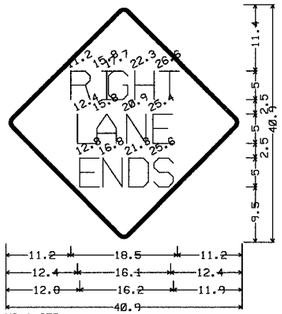
SIGN DETAILS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CONTRACT NO. 64594

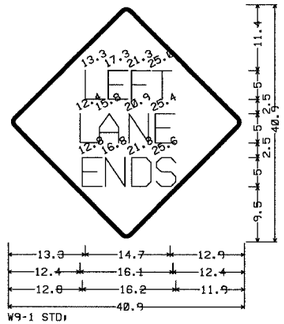
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	129K	WINNEBAGO	585	179
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 190/ IL 173



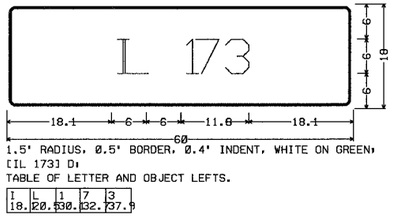
W9-1 STD;
30.0" ACROSS SIDES 1.9" RADIUS, 0.8" BORDER, 0.5" INDENT, BLACK ON YELLOW;
[RIGHT] D 102" SPACING;
[LANE] D 101" SPACING; [ENDS] D;

W9-1R 36 X 36
STA 158+00 LT



W9-1 STD;
30.0" ACROSS SIDES 1.9" RADIUS, 0.8" BORDER, 0.5" INDENT, BLACK ON YELLOW;
[LEFT] D; [LANE] D 101" SPACING; [ENDS] D;

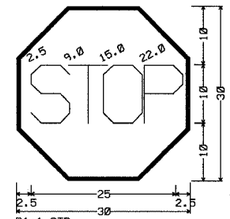
W9-1L 36 X 36
STA 214+00 RT



1.5" RADIUS, 0.5" BORDER, 0.4" INDENT, WHITE ON GREEN;
[IL 173] D;
TABLE OF LETTER AND OBJECT LEFTS.

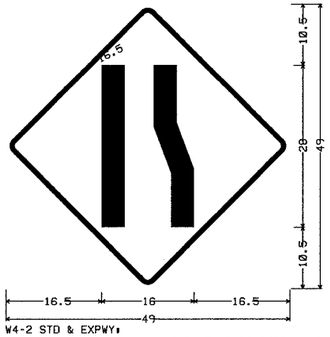
I	L	1	7	3
18.	20.5	30.	32.7	37.9

MAST ARM SIGN
2- AT ROCK CUT STATE PARK ENTRANCE
1- AT SOUTHBOUND I-90 RAMP INTERSECTIONS



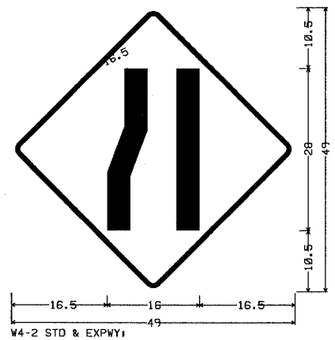
R1-1 STD.;
0.8" BORDER, WHITE ON RED;
[STOP] C 60" SPACING;

R1-1 30 X 30
LYFORD ROAD
NB & SB



W4-2 STD & EXPWY;
36.0" ACROSS SIDES 2.3" RADIUS, 0.9" BORDER, 0.6" INDENT, BLACK ON YELLOW;

W4-2R 36 X 36
STA 156+50 LT

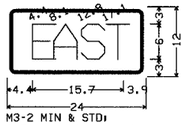


W4-2 STD & EXPWY;
36.0" ACROSS SIDES 2.3" RADIUS, 0.9" BORDER, 0.6" INDENT, BLACK ON YELLOW;

W4-2L 36 X 36
STA 217+00 RT

M3-4 MIN & STD;
1.5" RADIUS, 0.6" BORDER, 0.4" INDENT, BLACK ON WHITE;
[WEST] C 98" SPACING;

24 X 12
STA 159+50 RT
STA 195+00 RT



M3-2 MIN & STD;
1.5" RADIUS, 0.6" BORDER, 0.4" INDENT, BLACK ON WHITE;
[EAST] C;

24 X 12
STA 162+50 RT
STA 182+00 RT
STA 198+50 RT

30 X 24
STA 159+50 LT
STA 162+50 RT
STA 182+00 RT
STA 195+00 LT
STA 198+50 RT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

SIGN DETAILS

BENCH MARK: ALUMINUM DISK IN CONCRETE LABELED "U.S. DEPARTMENT OF INTERIOR 16SAN 1966" RESET IN 1984 APPROXIMATE STA. 188+00.00 OFFSET 40' R.

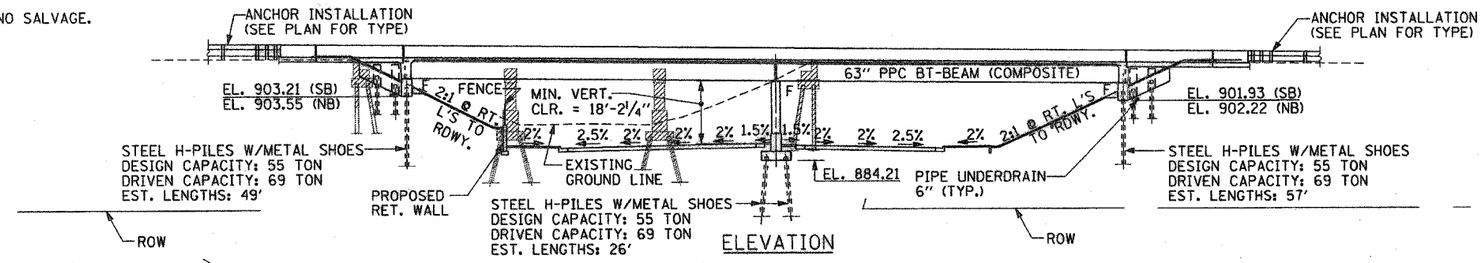
EXISTING STRUCTURES: S.N. 101-9905 (NB) & 101-9906 (SB) WERE BUILT AS N.W. TOLLWAY OVER IL 173 IN 1958. SUPERSTRUCTURE P.P.C. 36" I-BEAMS, SUBSTRUCTURE CONCRETE ABUT. ON CAST-IN-PLACE CONC. PILES, CONC. PIERS ON PRESTRESSED PRECAST CYLINDER PILES SHELLS. THREE 42'-9" SPANS. EXIST. MIN. CLEARANCE 14'-2". STRUCTURES WERE WIDENED IN 1989. TWO LANES OF TRAFFIC IN EACH DIRECTION WILL BE MAINTAINED UTILIZING STAGE CONSTRUCTION.

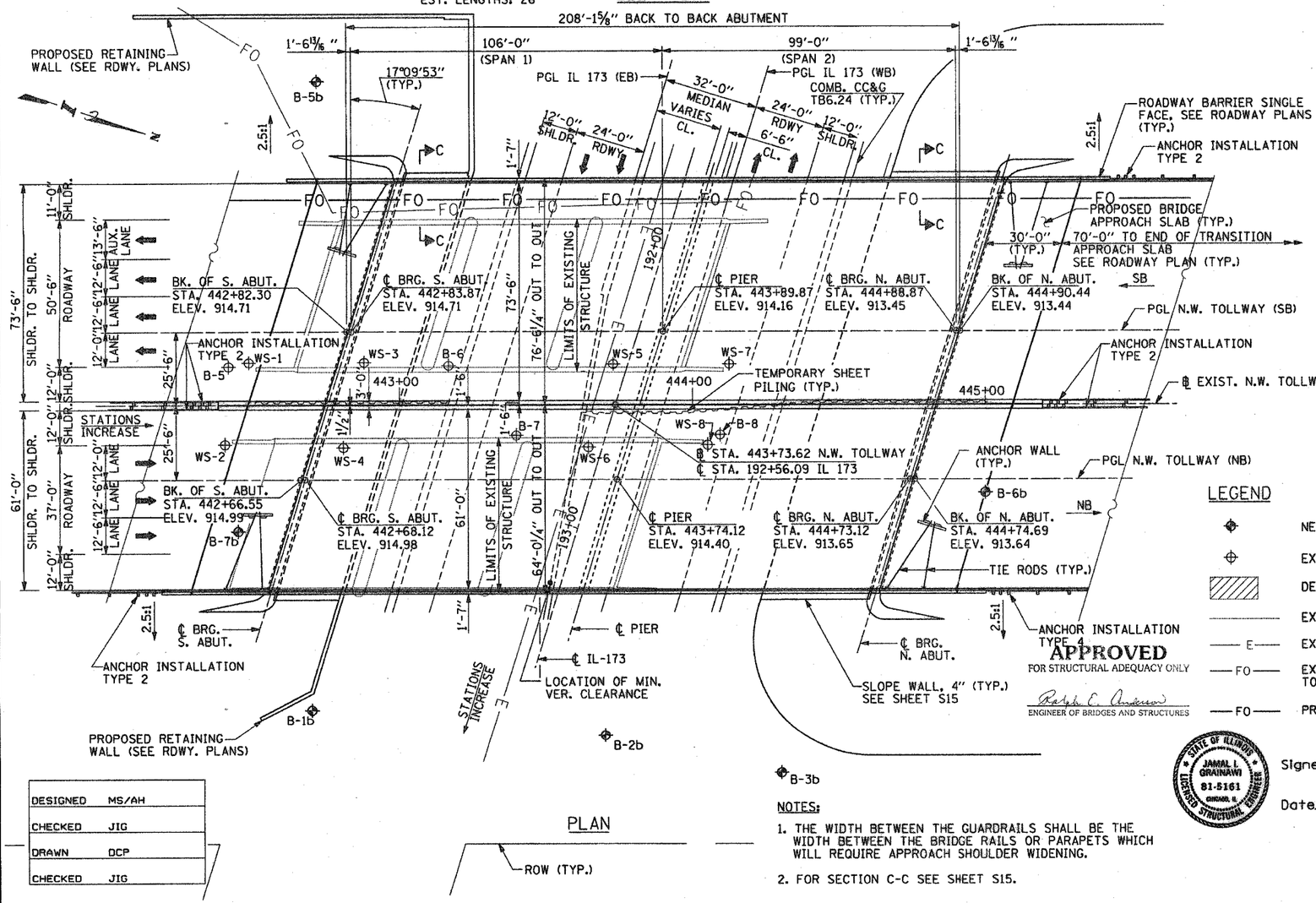
NO SALVAGE.

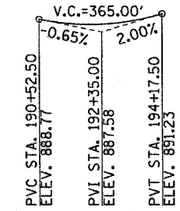
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	180
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

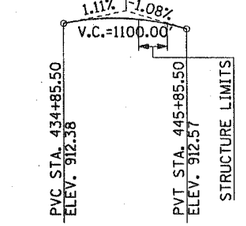
SHEET NO. S01 OF SHEETS S47



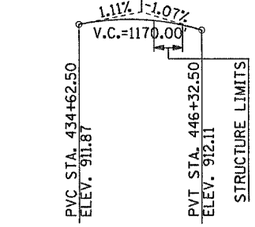




PROFILE GRADE
ALONG PG OF IL 173



PROFILE GRADE
ALONG PG OF N.W. TOLLWAY (NB)



PROFILE GRADE
ALONG PG OF N.W. TOLLWAY (SB)

HIGHWAY CLASSIFICATION

NORTHWEST TOLLWAY
FUNCTIONAL CLASS: INTERSTATE
ADT: 44,250 (BOTH DIR.) (2005)
42,400 (NB) (2025) 33,400 (SB) (2025)
ADTT: 10% DHV: 4,425 (BOTH DIR.)
DESIGN SPEED: 70 MPH
POSTED SPEED: 65 MPH

IL 173 (F.A.P. ROUTE 303)
FUNCTIONAL CLASS: PRINCIPAL ARTERIAL
ADT: 10,200 (2005) 34,850 (2025)
ADTT: 4% DHV: 3,485
DESIGN/POSTED SPEED: 45 MPH

DESIGN SPECIFICATIONS

2002 AASHTO (17TH ED.)

LOADING HS20-44 & ALT.

ALLOW 25#/SQ. FT. FOR FUTURE WEARING SURFACE

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 PSI (CONCRETE STRUCTURE)
f'c = 4,000 PSI (HIGH PERFORMANCE CONCRETE)
fy = 60,000 PSI (REINF.)

PRECAST PRESTRESSED UNITS

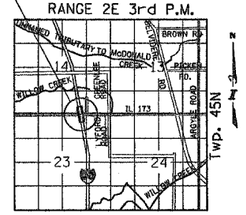
f'c = 6,000 PSI
fci = 5,000 PSI
f's = 270,000 PSI (½" Ø. LOW RELAXATION STRANDS)
fsi = 201,960 PSI (½" Ø. LOW RELAXATION STRANDS)

SEISMIC DATA

SEISMIC PERFORMANCE CATEGORY (SPC) = A
BEDROCK ACCELERATION COEFFICIENT (A) = 0.032G
SITE COEFFICIENT (S) = 1.0

LIVE LOAD DEFLECTION

MAXIMUM DEFLECTION DUE TO LIVE LOAD PLUS IMPACT SHALL NOT EXCEED THE FOLLOWING:
SPAN LENGTH/800



LOCATION SKETCH

LEGEND

- NEW SOIL BORING
- EXISTING SOIL BORING
- DENOTES REMOVAL
- EXISTING
- E — EXISTING ELECTRIC LINE
- FO — EXISTING FIBER OPTIC LINE TO BE RELOCATED
- FO — PROPOSED FIBER OPTIC LINE

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
JAMAL I. GRAINAWI
81-5161
LICENSED STRUCTURAL ENGINEER
CHICAGO, IL

Signed Jamal Grainawi
Jamal I. Grainawi, S.E. Il. Lic. No. 081-005161
Expires 11-30-2006
Date 9-15-2005

DESIGNED	MS/AH
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

PLAN

ROW (TYP.)

NOTES:

1. THE WIDTH BETWEEN THE GUARDRAILS SHALL BE THE WIDTH BETWEEN THE BRIDGE RAILS OR PARAPETS WHICH WILL REQUIRE APPROACH SHOULDER WIDENING.
2. FOR SECTION C-C SEE SHEET S15.

PB PARSONS BRINCKERHOFF

GENERAL PLAN & ELEVATION
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	181
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	
			CONTRACT NO. 64594	

SHEET NO. S02
OF SHEETS S47

GENERAL NOTES

ALL SUPERSTRUCTURE CONCRETE SHALL MEET THE REQUIREMENTS OF THE IDOT STANDARD SPECIFICATIONS FOR HIGH PERFORMANCE CONCRETE SUPERSTRUCTURE (HPC) WITH MICRO-SILICA MIX DESIGN. THIS INCLUDEDS BRIDGE DECK, BRIDGE BARRIERS AND DIAPHRAGMS. ALL CONCRETE SUBSTRUCTURE AND APPROACH SLAB BARRIERS SHALL MEET THE REQUIREMENTS OF THE IDOT STANDARD SPECIFICATIONS FOR CONCRETE STRUCTURES.

ALL EXPOSED CONCRETE EDGES SHALL HAVE A $\frac{3}{4}$" x 45° CHAMFER, UNLESS NOTED OTHERWISE. CHAMFER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.

REINFORCEMENT BARS, INCLUDING EPOXY-COATED REINFORCEMENT BARS, SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 OR M322 GRADE 60, DEFORMED BARS.

REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.

REINFORCEMENT BAR BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.

REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.

REINFORCEMENT BARS NOTED THUS, 3X2-#5 INDICATES 3 LINES OF BARS WITH 2 LENGTHS OF BARS PER LINE.

COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN.

REINFORCEMENT BAR SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE UNLESS OTHERWISE SHOWN ON THE DRAWING

CLASS "C" SPLICE- BASIC	FC' = 3500 PSI	FC' = 4000 PSI
#4	1'-8"	1'-8"
#5	2'-2"	2'-2"
#6	2'-7"	2'-7"
#7	3'-5"	3'-3"
#8	4'-6"	4'-3"
#9	5'-9"	5'-5"
#10	7'-3"	6'-10"
#11	9'-0"	8'-5"

CLASS "C" SPLICE - TOP BARS	FC' = 3500 PSI	FC' = 4000 PSI
#4	2'-5"	2'-5"
#5	3'-0"	3'-0"
#6	3'-7"	3'-7"
#7	4'-10"	4'-6"
#8	6'-4"	5'-11"
#9	8'-1"	7'-6"
#10	10'-3"	9'-7"
#11	12'-7"	11'-9"

SLOPE WALLS SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6"X6" - W4.0 X W4.0, WEIGHING 58 POUNDS PER 100 SQUARE FEET.

CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. DIMENSIONS ARE SHOWN FOR INFORMATION ONLY.

NO CONSTRUCTION JOINT EXCEPT THOSE SHOWN ON THE PLANS WILL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS 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 ADJUSTMENT PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE FOR THE WORK.

THE EXISTING BRIDGE PLANS ARE AVAILABLE AT THE ILLINOIS TOLL HIGHWAY AUTHORITY OFFICE, AND WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON WRITTEN REQUEST.

TEMPORARY SHEETING AND BRACING SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE PLANS AND/OR AS REQUIRED FOR THE EXCAVATION TO PROTECT THE ADJACENT AREAS FROM SETTLING OR FALLING INTO THE EXCAVATED AREAS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.

THE MANUFACTURER, THE CONTRACTOR AND THE BEAM TRANSPORTATION COMPANY SHALL PROVIDE ADEQUATE BRACING AND SUPPORT FOR PPC BEAMS DURING TRANSPORTING, STORING AND ERECTING TO ENSURE THE SAFETY OF THE PERSONNEL ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT.

POROUS GRANULAR BACKFILL SHALL BE PLACED BEHIND THE ABUTMENT AFTER THE SUPERSTRUCTURE HAS BEEN PLACED, THE WINGWALLS HAVE BEEN CONSTRUCTED, ALL FALSEWORK HAS BEEN REMOVED AND THE TIE RODS HAVE BEEN INSTALLED AND WRAPPED WITH TAPE. SEE ARTICLE 207 OF THE IDOT STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL DRIVE THREE (3) TEST PILES IN THE PERMANENT LOCATIONS: ONE (1) AT EACH ABUTMENT AND ONE (1) AT THE PIER AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

PROTECTIVE COAT (SPECIAL) SHALL BE APPLIED TO ALL EXPOSED SURFACES OF PIER IN THE MEDIAN. PROTECTIVE COAT (SPECIAL) SHALL BE APPLIED TO THE TOP AND TRAFFIC FACE OF ALL BRIDGE DECK BARRIERS, INCLUDING BARRIERS ON BRIDGE APPROACH SLABS.

RAISED BEARING AREAS SHALL BE CAST MONOLITHICALLY WITH THE REST OF THE STRUCTURE AND GROUND TO THE ELEVATIONS SHOWN.

PROTECTIVE COAT SHALL BE APPLIED TO THE BRIDGE DECK.

AFTER GIRDERS ARE SET, ALL ELEVATIONS FOR DETERMINING FILLET HEIGHTS SHALL BE TAKEN AT ONE TIME.

WHEN THE DECK POUR IS STOPPED FOR THE DAY AT ONE OR MORE OF THE TRANSVERSE BONDED CONSTRUCTION JOINTS IN THE DECK POURING SEQUENCE AS SHOWN, THE NEXT POUR SHALL NOT BE MADE UNTIL BOTH OF THE FOLLOWING REQUIREMENTS ARE MET.

1. AT LEAST 72 HOURS SHALL HAVE ELAPSED FROM THE END OF THE PREVIOUS POUR.
2. THE CONCRETE STRENGTH SHALL HAVE ATTAINED A MINIMUM FLEXURAL STRENGTH OF 650 PSI OR A COMPRESSIVE STRENGTH OF 3500 PSI.

UPON COMPLETION OF THE STRUCTURE, THE CONTRACTOR SHALL MEASURE THE RESULTING HORIZONTAL AND VERTICAL CLEARANCES AND SUBMIT THEM TO THE ENGINEER FOR REVIEW AND INCLUSION IN THE AS BUILT PLANS.

ALL CONSTRUCTION JOINTS SHALL BE BONDED.

INDEX OF DRAWINGS

SHEET NO.	TITLE	SHEET NO.	TITLE
S01	GENERAL PLAN & ELEVATION	S24	63" PPC BULB T-BEAM DETAILS
S02	GENERAL NOTES & BILL OF MATERIAL	S25	DIAPHRAGMS DETAILS
S03	CONSTRUCTION STAGING	S26	DECK PLAN AND CROSS SECTION (SB)
S04	EXISTING ABUTMENTS	S27	SUPERSTRUCTURE DETAILS (SB)
S05	EXISTING PIERS	S28	DECK PLAN AND CROSS SECTION (NB)
S06	SUBSTRUCTURE LAYOUT	S29	SUPERSTRUCTURE DETAILS (NB)
S07	PILE DRIVING RECORD	S30	SUPERSTRUCTURE DETAILS
S08	PILE DRIVING RECORD	S31	TOP OF SLAB ELEVATION LAYOUT
S09	SOUTH ABUTMENT (SB)	S32	TOP OF SLAB ELEVATIONS (TABLE I)
S10	NORTH ABUTMENT (SB)	S33	TOP OF SLAB ELEVATIONS (TABLE II)
S11	ABUTMENT & WINGWALL DETAILS (SB)	S34	TOP OF SLAB ELEVATIONS (TABLE III)
S12	SOUTH ABUTMENT (NB)	S35	TOP OF SLAB ELEVATIONS (TABLE IV)
S13	NORTH ABUTMENT (NB)	S36	SOUTH APPROACH SLAB (SB)
S14	ABUTMENT & WINGWALL DETAILS (NB)	S37	NORTH APPROACH SLAB (SB)
S15	ANCHOR WALL AND SLOPE WALL DETAILS	S38	SOUTH APPROACH SLAB (NB)
		S39	NORTH APPROACH SLAB (NB)
S16	PIER (SB)	S40	APPROACH SLAB DETAILS
S17	PIER DETAILS (SB)	S41	TEMPORARY CONCRETE BARRIER
S18	PIER (NB)	S42	BAR SPLICER ASSEMBLY DETAILS
S19	PIER DETAILS (NB)	S43	BORING LOG I
S20	FRAMING PLAN (SB)	S44	BORING LOG II
S21	FRAMING PLAN (NB)	S45	BORING LOG III
S22	63" PPC BULB T-BEAM (SPAN 1)	S46	BORING LOG IV
S23	63" PPC BULB T-BEAM (SPAN 2)	S47	BORING LOG V

TOTAL BILL OF MATERIAL

I.D.O.T. PAY ITEM	DESCRIPTION	UNIT	SUPER	SUB	TOTAL	RECORD QUANTITY
50200100	STRUCTURE EXCAVATION	CU. YD.	----	1,069.2	1,069.2	
20700220	POROUS GRANULAR EMBANKMENT (SPECIAL)	CU. YD.	----	870.9	870.9	
X0323397	HIGH PERFORMANCE CONCRETE SUPERSTRUCTURE	CU. YD.	1,026.3	----	1,026.3	
50300225	CONCRETE STRUCTURES	CU. YD.	32.2	479.6	511.8	
X0322899	TRIAL BATCH	EACH	2	----	2	
50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAM, 63"	FOOT	3,705	----	3,705	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	238,070	63,390	301,460	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	----	----	2	
60107700	PIPE UNDERDRAINS 6"	FOOT	----	288	288	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	----	6,242	6,242	
51202700	DRIVING STEEL PILES	FOOT	----	6,242	6,242	
51204600	METAL SHOES	EACH	----	157	157	
51203600	TEST PILE STEEL HP12X53	EACH	----	3	3	
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ. YD.	939	----	939	
51100100	SLOPE WALL 4 INCH	SQ. YD.	----	1,119	1,119	
50300300	PROTECTIVE COAT	SQ. YD.	3,095	----	3,095	
51205200	TEMPORARY SHEET PILING	SQ. FT.	----	2,105	2,105	
59100100	GEOCOMPOSITE WALL DRAIN	SQ. YD.	----	345.2	345.2	
50300260	BRIDGE DECK GROOVING	SQ. YD.	3,003	----	3,003	
Z002600	BAR SPLICERS	EACH	48	8	56	
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ. FT.	----	2,740	2,740	
51204910	STEEL SHEET PILING (SPECIAL)	SQ. FT.	----	646	646	
50300300	PROTECTIVE COAT (SPECIAL)	SQ. YD.	530	575	1,105	

DESIGNED	JZ
CHECKED	AH
DRAWN	DCP
CHECKED	JIG

PARSONS BRINCKERHOFF

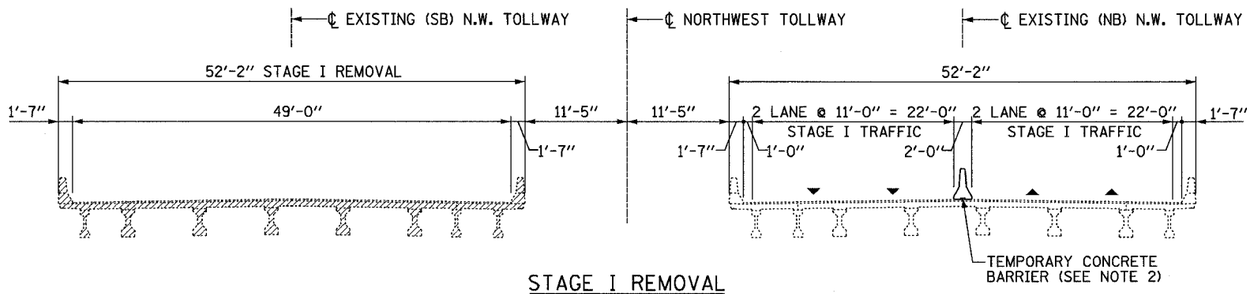
GENERAL NOTES & BILL OF MATERIAL
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$GNS
$$FFF

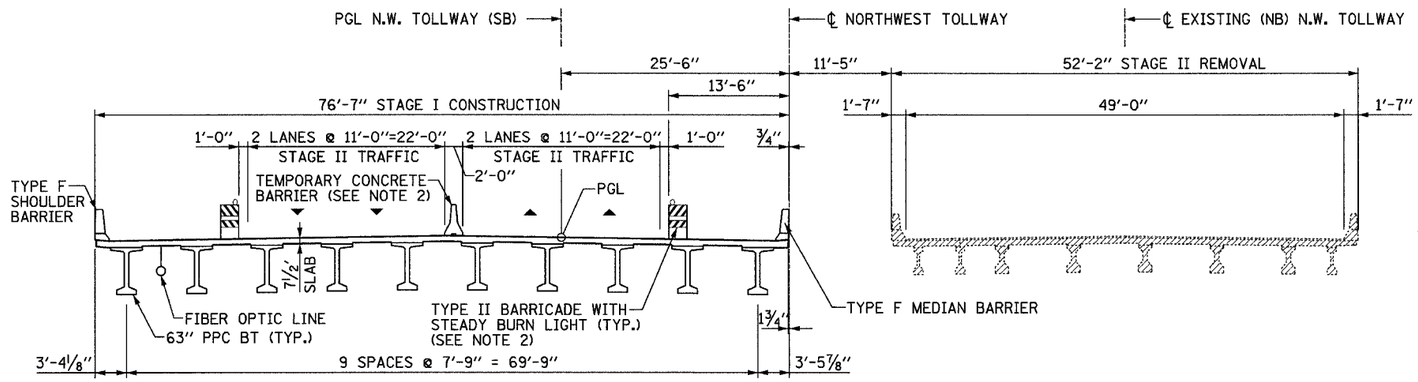
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	182
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

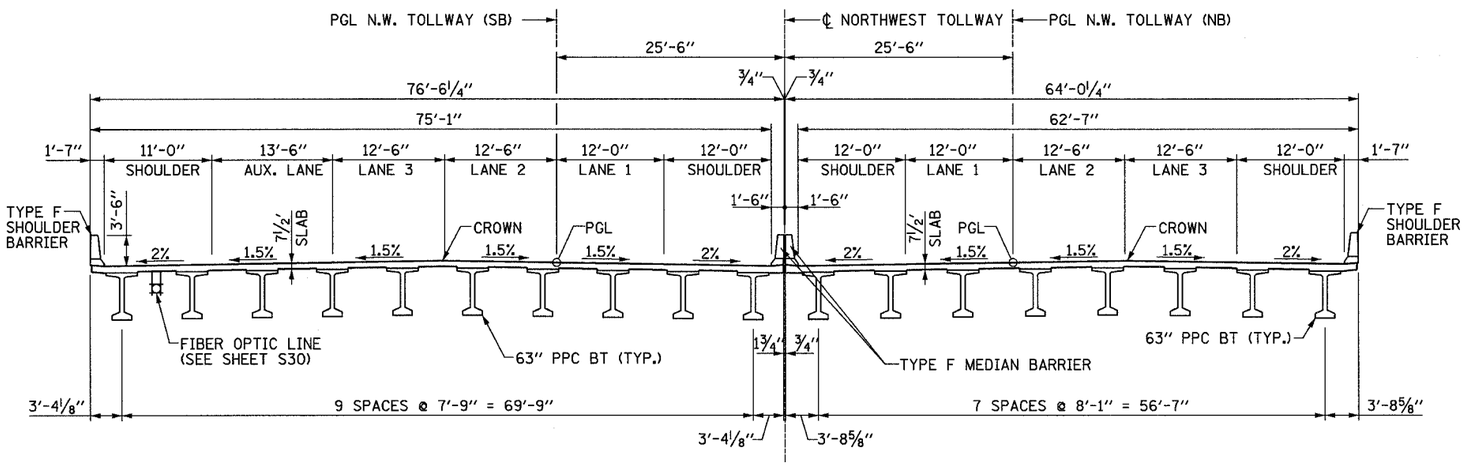
SHEET NO. S03
OF SHEETS S47



STAGE I REMOVAL
(LOOKING NORTH)



STAGE I CONSTRUCTION/STAGE II REMOVAL
(LOOKING NORTH)



FINAL
(LOOKING NORTH)

DESIGNED	AH
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

LEGEND

▨ DENOTES REMOVAL

CONSTRUCTION STAGING

STAGE I

1. DRIVE TEMPORARY SHEET PILING AT THE LOCATIONS SHOWN ON PLANS.
2. ERECT TEMPORARY BARRIERS AS DETAILED ON THE STAGE CONSTRUCTION PLAN.
3. REROUTE TWO LANES OF TRAFFIC (EACH DIRECTION) TO THE EXISTING NORTHBOUND STRUCTURE.
4. REMOVE EXISTING SOUTHBOUND CONCRETE DECK. PRESTRESSED CONCRETE GIRDERS, ABUTMENTS AND PIERS AS DETAILED.
5. CONSTRUCT NEW PIERS AND ABUTMENTS. ERECT NEW GIRDERS AND CONSTRUCT NEW DECK AS DETAILED FOR STAGE I CONSTRUCTION.
6. CONSTRUCT APPROACH PAVEMENTS AND SLABS TO LIMITS AS SHOWN.

STAGE II

1. RELOCATE AND ERECT TEMPORARY BARRIERS AS DETAILED ON THE STAGE CONSTRUCTION PLANS.
2. REROUTE TWO LANES OF TRAFFIC (EACH DIRECTION) TO THE NEWLY CONSTRUCTED SOUTHBOUND STRUCTURE.
3. REMOVE EXISTING NORTHBOUND CONCRETE DECK. PRESTRESSED CONCRETE GIRDERS, ABUTMENTS AND PIERS AS DETAILED.
4. CONSTRUCT NEW PIERS AND ABUTMENTS. ERECT NEW GIRDERS AND CONSTRUCT NEW DECK AS DETAILED FOR STAGE II CONSTRUCTION.
5. CONSTRUCT APPROACH PAVEMENTS AND SLABS TO LIMITS AS SHOWN.
6. REMOVE TEMPORARY BARRIERS AND REROUTE TRAFFIC TO THE PROPOSED LANES ON THE COMPLETED STRUCTURE.

NOTES:

1. FOR TEMPORARY CONCRETE BARRIER DETAILS, SEE SHEET NO. S41.
2. QUANTITIES FOR TEMPORARY CONCRETE BARRIER AND TYPE II BARRICADE WITH STEADY BURN LIGHT ARE SHOWN ON THE ROADWAY PLANS.

PB PARSONS BRINCKERHOFF

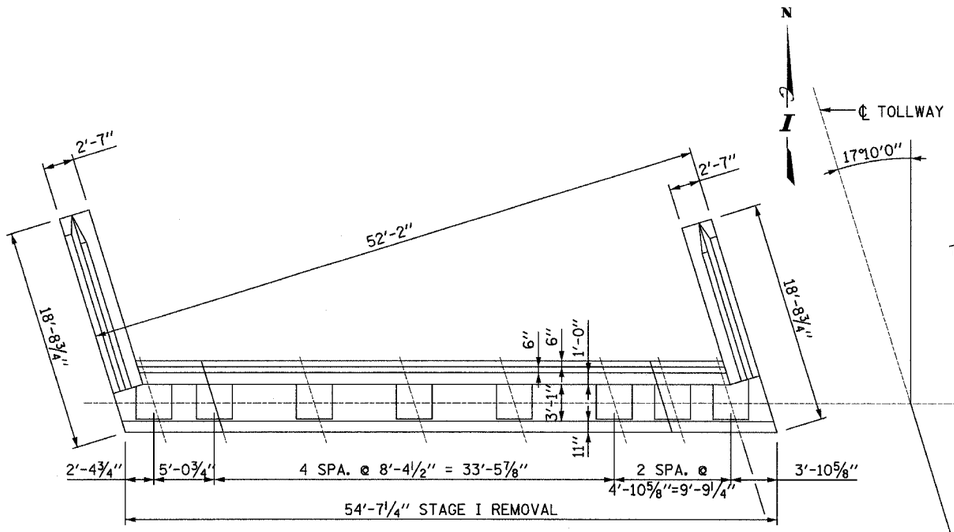
CONSTRUCTION STAGING
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGNSS
$$PFASS

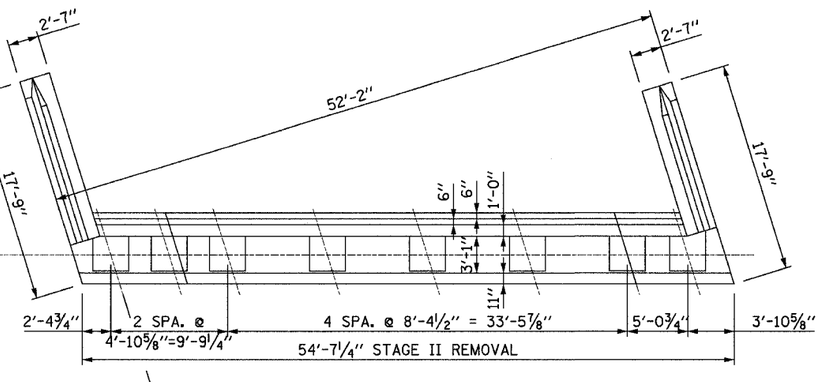
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	183
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S04
OF SHEETS S47

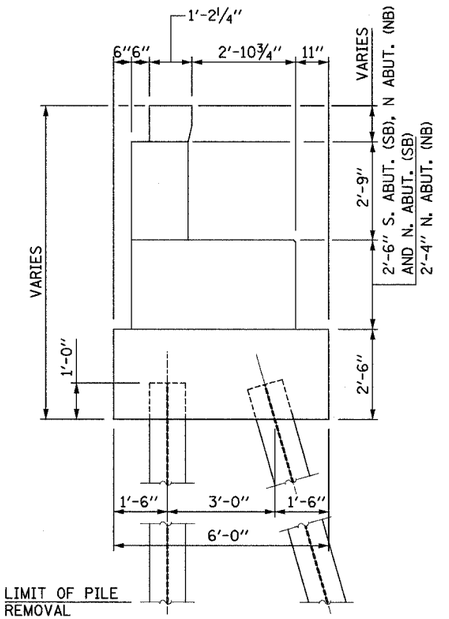
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



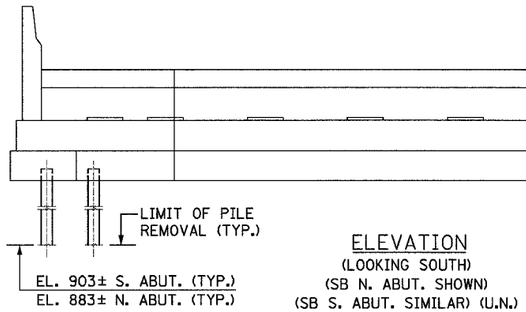
PLAN
(SB N. ABUT. SHOWN)
(SB S. ABUT. SIMILAR) (U.N.)



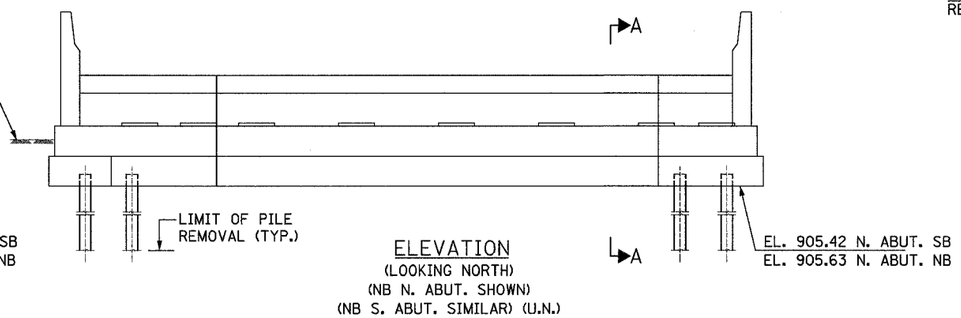
PLAN
(NB N. ABUT. SHOWN)
(NB S. ABUT. SIMILAR) (U.N.)



SECTION A-A



ELEVATION
(LOOKING SOUTH)
(SB N. ABUT. SHOWN)
(SB S. ABUT. SIMILAR) (U.N.)



ELEVATION
(LOOKING NORTH)
(NB N. ABUT. SHOWN)
(NB S. ABUT. SIMILAR) (U.N.)

ESTIMATED CONCRETE REMOVAL		
DESCRIPTION	UNIT	QUANTITY
CONCRETE REMOVAL		
SB S. ABUT.	CU. YDS.	68.00
SB PIER 1	CU. YDS.	138.50
SB PIER 2	CU. YDS.	138.50
SB N. ABUT.	CU. YDS.	68.00
NB S. ABUT.	CU. YDS.	61.00
NB PIER 1	CU. YDS.	138.50
NB PIER 2	CU. YDS.	138.00
NB N. ABUT.	CU. YDS.	61.00
TOTAL	CU. YDS.	812.00

FOR INFORMATION ONLY

NOTE:

WORK THIS SHEET WITH SHEET S05.

DESIGNED	MS
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

BILL OF MATERIAL			
PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
50100100	Removal of Existing Structure	Each	2

PB PARSONS BRINCKERHOFF

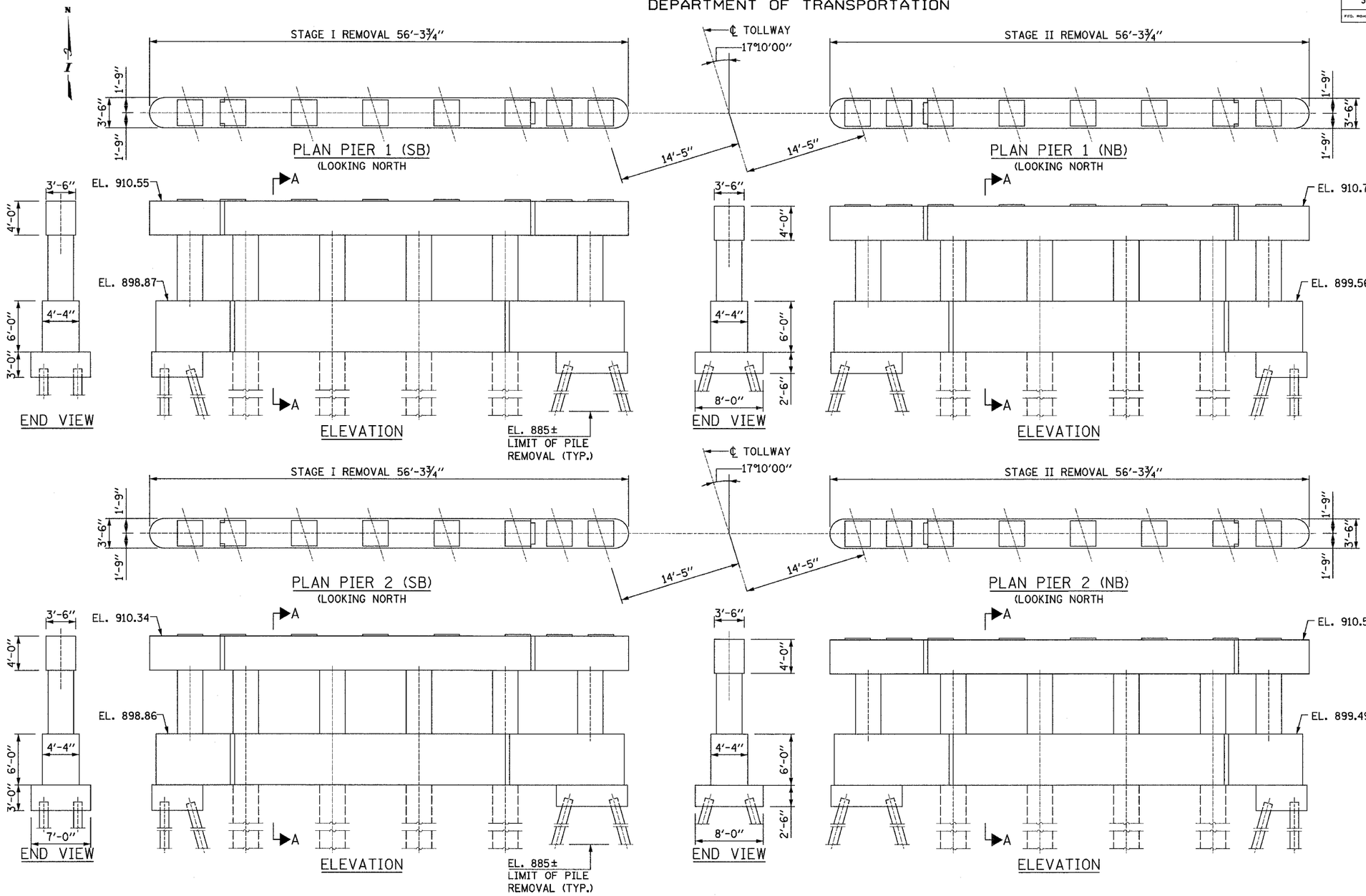
EXISTING ABUTMENTS
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGNSS
$$PFSS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129k	WINNEBAGO	585	184
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S05
OF SHEETS S47



DESIGNED	DCP
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

NOTE:

WORK THIS SHEET WITH SHEET S04.

EXISTING PIERS
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

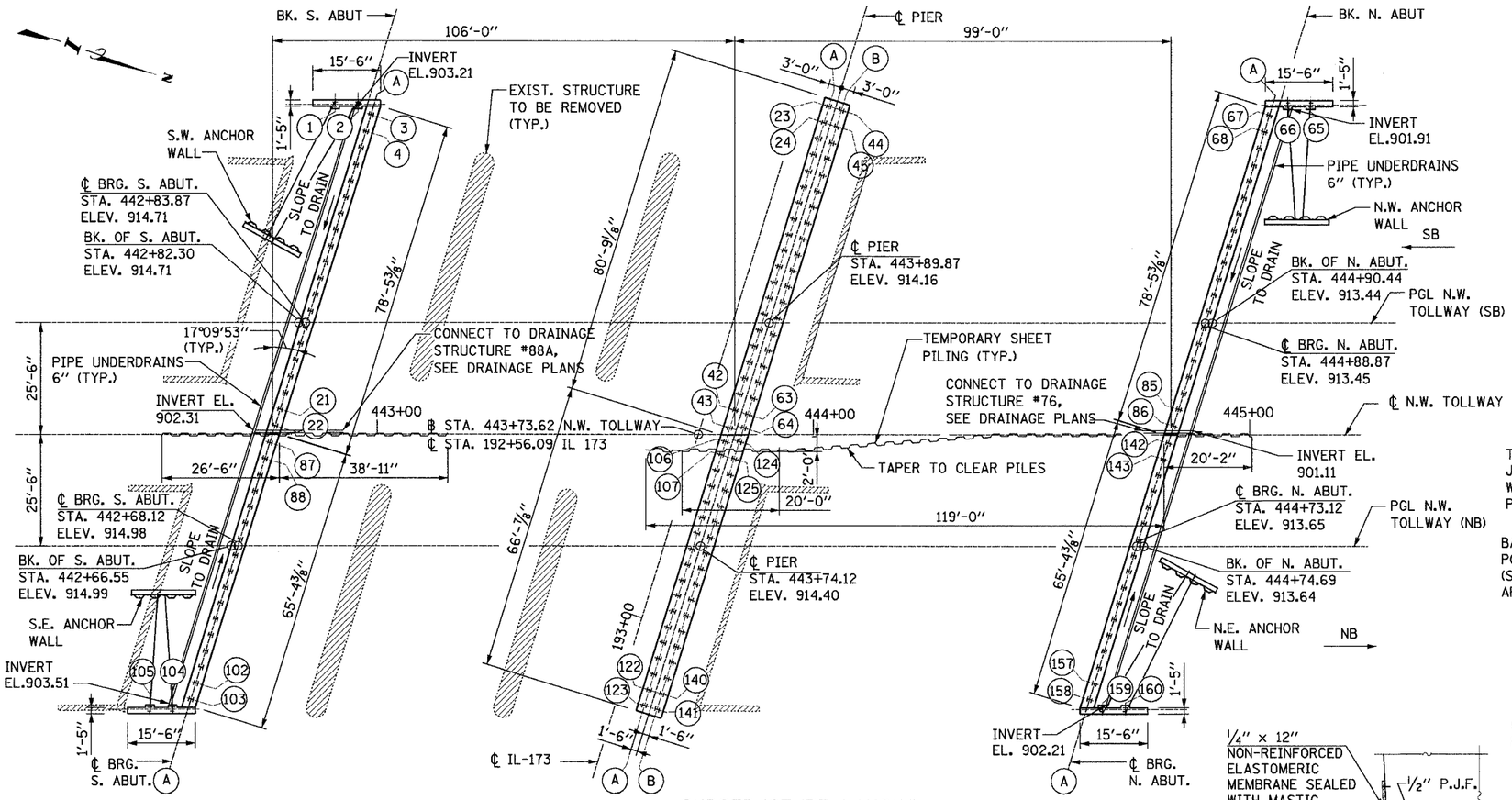
PB PARSONS BRINCKERHOFF

SSDGNSS
SSPRFSS

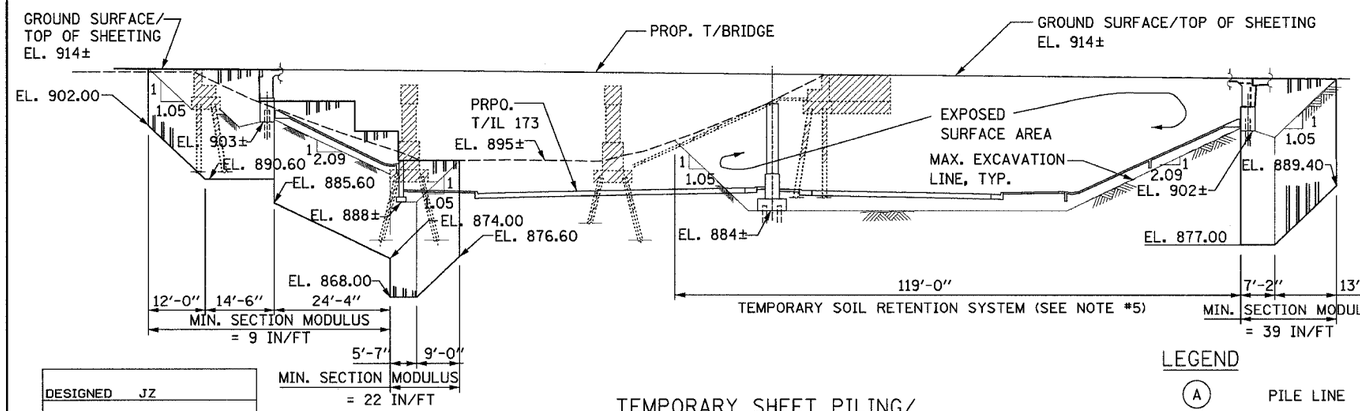
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129k	WINNEBAGO	585	185
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT- CONTRACT NO. 64594		

SHEET NO. S06
OF SHEETS S47

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SUBSTRUCTURE LAYOUT



TEMPORARY SHEET PILING/ TEMPORARY SOIL RETENTION SYSTEM ELEVATION

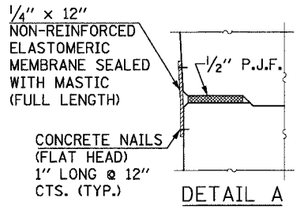
DESIGNED	JZ
CHECKED	JIG
DRAWN	JZ
CHECKED	JIG

LEGEND

- (A) PILE LINE
- (157) PILE NUMBER
- H-PILES
- TEMPORARY SHEET PILING
- DENOTES REMOVAL

NOTES:

1. THE INFORMATION SHOWN FOR TEMPORARY SHEET PILING IS ESTIMATED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A DESIGN FOR THE TEMPORARY SHEET PILING, COMPLETE WITH CALCULATIONS AND DRAWINGS, SEALED BY A LICENSED STRUCTURAL ENGINEER, FOR THE ENGINEER'S REVIEW IN ACCORDANCE WITH SECTION 105.2.2 OF THE STANDARD SPECIFICATIONS.
2. WALERS, RAKERS AND TIEBACKS ARE NOT SHOWN AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. IF THE CONTRACTOR CHOOSES TO ALTER THE TEMPORARY CANTILEVERED SHEET PILING DESIGN REQUIREMENTS SHOWN ON THE PLAN, A DESIGN SUBMITTAL INCLUDING PLAN DETAILS AND CALCULATIONS WILL BE REQUIRED FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
4. HARD DRIVING MAY BE ENCOUNTERED DURING THE SHEET PILING INSTALLATION. THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE DRIVING EQUIPMENT FOR THE SOIL CONDITIONS INDICATED ON THE BORING LOGS.
5. WHERE A CANTILEVERED SHEET PILING DESIGN DOES NOT APPEAR FEASIBLE AND ADDITIONAL MEMBERS OR OTHER RETENTION SYSTEMS MAY BE NECESSARY, THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.

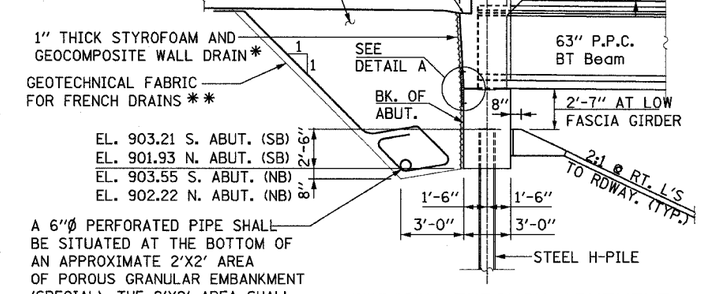


DETAIL A

NOTE:
THE COST OF ELASTOMERIC MEMBRANE, MASTIC AND CONCRETE NAILS IS INCLUDED WITH THE COST OF CONCRETE STRUCTURES.

TOOL EDGES OF CONSTRUCTION JOINT OR SAW ⅜" X2" AND FILL WITH HOT POURED LOW MODULUS POLYMER SEALER

BACKFILL WITH UNCOMPACTED POROUS GRANULAR EMBANKMENT (SPECIAL) BY BRIDGE CONTRACTOR AFTER SUBSTRUCTURE IS IN PLACE.



SECTION THROUGH ABUTMENT

(HORIZ. DIMENSIONS @ RT. L'S)

*COST OF STYROFOAM IS INCLUDED WITH THE COST OF GEOCOMPOSITE WALL DRAIN.

**COST OF GEOTECHNICAL FABRIC IS INCLUDED WITH THE COST OF POROUS GRANULAR EMBANKMENT (SPECIAL).

BILL OF MATERIAL			
PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
51205200	Temporary Sheet Piling	Sq. Ft.	2,105
X0323988	Temporary Soil Retention System	Sq. Ft.	2,740

PB PARSONS BRINCKERHOFF 100 YEARS

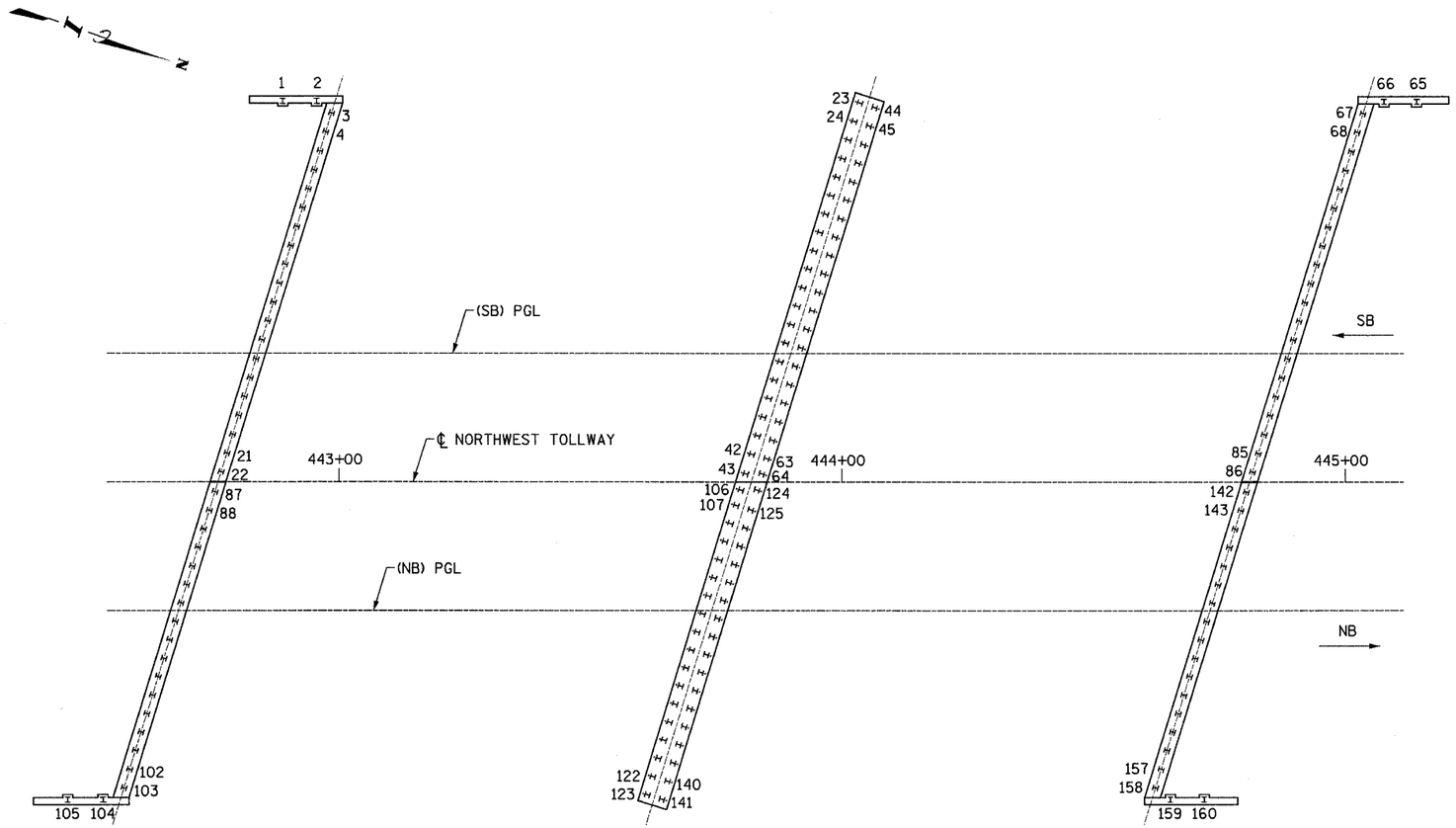
SUBSTRUCTURE LAYOUT
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGN$$
$$PRF$$

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129k	WINNEBAGO	585	186
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT=		
		CONTRACT NO. 64594		

SHEET NO. S07
OF SHEETS S47

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PILE LOCATION PLAN

PILE DRIVING WECORD

TYPE & SIZE OF PILE: _____ DATE: _____ (MONTH YEAR)
PILE DRIVING EQUIP.: _____
ENERGY RATING: _____
TYPE OF HAMMER _____
WEIGHT OF HAMMER: _____
DROP OF HAMMER: _____
FOMULA USED: _____

PILE LOCATION	PILE NO.	CUT-OFF ELEV.	LENGTH IN PLACE FT.	DRIVING DATA - FINAL 5 FEET					
				5'	4'	3'	2'	FINAL 1'	
				BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BEARING TON
SB S. ABUT.	1								
SB S. ABUT.	2								
SB S. ABUT.	3								
SB S. ABUT.	4								
SB S. ABUT.	5								
SB S. ABUT.	6								
SB S. ABUT.	7								
SB S. ABUT.	8								
SB S. ABUT.	9								
SB S. ABUT.	10								
SB S. ABUT.	11								
SB S. ABUT.	12								
SB S. ABUT.	13								
SB S. ABUT.	14								
SB S. ABUT.	15								
SB S. ABUT.	16								
SB S. ABUT.	17								
SB S. ABUT.	18								
SB S. ABUT.	19								
SB S. ABUT.	20								
SB S. ABUT.	21								
SB S. ABUT.	22								
SB PIER	23								
SB PIER	24								
SB PIER	25								
SB PIER	26								
SB PIER	27								
SB PIER	28								
SB PIER	29								
SB PIER	30								
SB PIER	31								
SB PIER	32								
SB PIER	33								
SB PIER	34								
SB PIER	35								
SB PIER	36								
SB PIER	37								
SB PIER	38								
SB PIER	39								
SB PIER	40								

DESIGNED	DCP
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

NOTE:
DIMENSIONING OF FOOTING AND SPACING OF PILES SHALL CORRESPOND WITH SUBSTRUCTURE PLANS. SHTS. S09 THRU S19.

PB PARSONS BRINCKERHOFF

PILE DRIVING RECORD
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGN$$
$$PRFS$$

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129k	WINNEBAGO	585	187
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S08
OF SHEETS S47

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE LOCATION	PILE NO.	CUT-OFF ELEV.	LENGTH IN PLACE FT.	DRIVING DATA - FINAL 5 FEET					
				5'	5'	5'	5'	FINAL 1'	
				BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BEARING TON
SB PIER	41								
SB PIER	42								
SB PIER	43								
SB PIER	44								
SB PIER	45								
SB PIER	46								
SB PIER	47								
SB PIER	48								
SB PIER	49								
SB PIER	50								
SB PIER	51								
SB PIER	52								
SB PIER	53								
SB PIER	54								
SB PIER	55								
SB PIER	56								
SB PIER	57								
SB PIER	58								
SB PIER	59								
SB PIER	60								
SB PIER	61								
SB PIER	62								
SB PIER	63								
SB PIER	64								
SB N. ABUT.	65								
SB N. ABUT.	66								
SB N. ABUT.	67								
SB N. ABUT.	68								
SB N. ABUT.	69								
SB N. ABUT.	70								
SB N. ABUT.	71								
SB N. ABUT.	72								
SB N. ABUT.	73								
SB N. ABUT.	74								
SB N. ABUT.	75								
SB N. ABUT.	76								
SB N. ABUT.	77								
SB N. ABUT.	78								
SB N. ABUT.	79								
SB N. ABUT.	80								
SB N. ABUT.	81								
SB N. ABUT.	82								
SB N. ABUT.	83								
SB N. ABUT.	84								
SB N. ABUT.	85								
SB N. ABUT.	86								

PILE LOCATION	PILE NO.	CUT-OFF ELEV.	LENGTH IN PLACE FT.	DRIVING DATA - FINAL 5 FEET					
				5'	5'	5'	5'	FINAL 1'	
				BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BEARING TON
NB S. ABUT.	87								
NB S. ABUT.	88								
NB S. ABUT.	89								
NB S. ABUT.	90								
NB S. ABUT.	91								
NB S. ABUT.	92								
NB S. ABUT.	93								
NB S. ABUT.	94								
NB S. ABUT.	95								
NB S. ABUT.	96								
NB S. ABUT.	97								
NB S. ABUT.	98								
NB S. ABUT.	99								
NB S. ABUT.	100								
NB S. ABUT.	101								
NB S. ABUT.	102								
NB S. ABUT.	103								
NB S. ABUT.	104								
NB S. ABUT.	105								
NB PIER	106								
NB PIER	107								
NB PIER	108								
NB PIER	109								
NB PIER	110								
NB PIER	111								
NB PIER	112								
NB PIER	113								
NB PIER	114								
NB PIER	115								
NB PIER	116								
NB PIER	117								
NB PIER	118								
NB PIER	119								
NB PIER	120								
NB PIER	121								
NB PIER	122								
NB PIER	123								
NB PIER	124								
NB PIER	125								
NB PIER	126								
NB PIER	127								
NB PIER	128								
NB PIER	129								
NB PIER	130								
NB PIER	131								
NB PIER	132								
NB PIER	133								
NB PIER	134								
NB PIER	135								
NB PIER	136								

PILE LOCATION	PILE NO.	CUT-OFF ELEV.	LENGTH IN PLACE FT.	DRIVING DATA - FINAL 5 FEET					
				5'	5'	5'	5'	FINAL 1'	
				BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BLOWS PER FT.	BEARING TON
NB PIER	137								
NB PIER	138								
NB PIER	139								
NB PIER	140								
NB PIER	141								
NB N. ABUT.	142								
NB N. ABUT.	143								
NB N. ABUT.	144								
NB N. ABUT.	145								
NB N. ABUT.	146								
NB N. ABUT.	147								
NB N. ABUT.	148								
NB N. ABUT.	149								
NB N. ABUT.	150								
NB N. ABUT.	151								
NB N. ABUT.	152								
NB N. ABUT.	153								
NB N. ABUT.	154								
NB N. ABUT.	155								
NB N. ABUT.	156								
NB N. ABUT.	157								
NB N. ABUT.	158								
NB N. ABUT.	159								
NB N. ABUT.	160								

DESIGNED	DCP
CHECKED	JIG
DRAWN	MB
CHECKED	JIG

PILE DRIVING RECORD
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

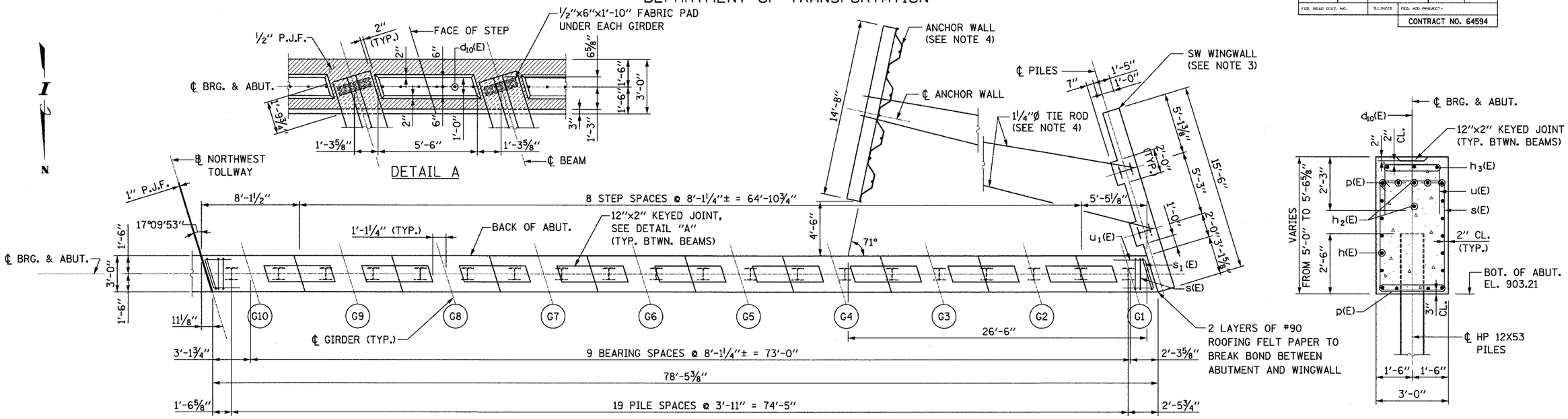
PB PARSONS BRINCKERHOFF

$$DGN$$
$$PRF$$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	188
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S09
OF SHEETS S47



NOTES:

1. ALL REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
2. BARS INDICATED THUS 2X3 -#5 ETC. INDICATES 2 LINE OF BARS WITH 3 LENGTHS PER LINE.
3. FOR BILL OF MATERIAL AND WINGWALL DETAILS, SEE SHEET S11.
4. FOR ANCHOR WALL AND TIE ROD DETAILS, SEE SHEET S15.

DESIGNED	MS
CHECKED	JIG
DRAWN	MS
CHECKED	JIG

PILE DATA

TYPE: STEEL HP 12X53 PILES W/METAL SHOES
DESIGN CAPACITY: 55 TON
DRIVEN CAPACITY: 69 TON
EST. LENGTH: 49'
NO. REQ'D.: 21 PLUS 1 TEST PILE

LEGEND

I - PILE
E.F. - EACH FACE
BOT. - BOTTOM
ABUT. - ABUTMENT
BRG. - BEARING
BTWN. - BETWEEN
P.J.F. - PREFORMED JOINT FILLER

PARSONS BRINCKERHOFF

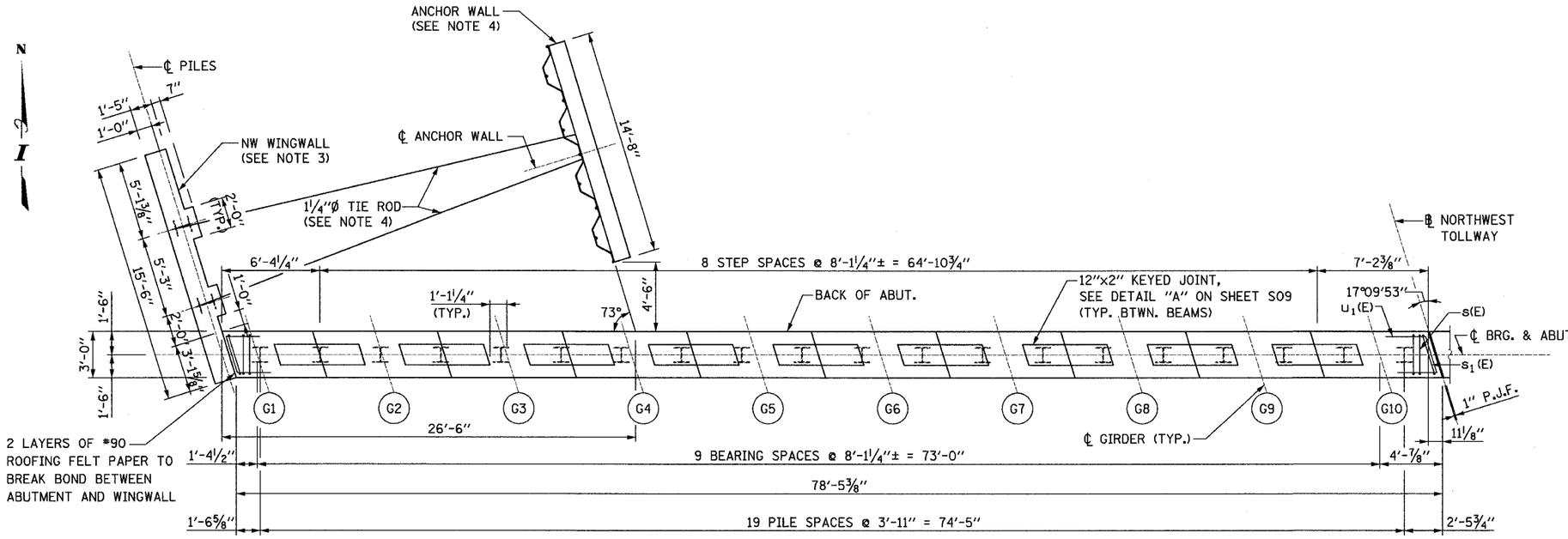
SOUTH ABUTMENT (SB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

SSDGNSS
SSPAYSS

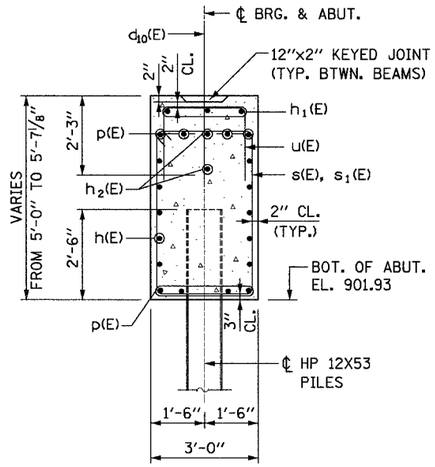
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	189
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S10
OF SHEETS S47

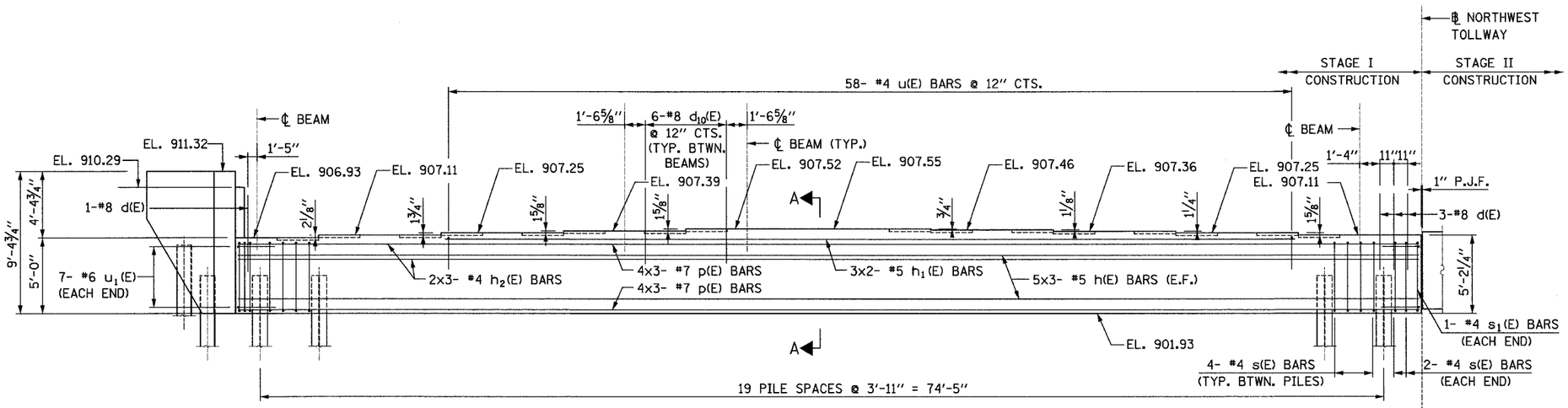
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN



SECTION A-A



ELEVATION
(LOOKING NORTH)

NOTES:

1. ALL REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
2. BARS INDICATED THUS 2X3 -#5 ETC. INDICATES 2 LINE OF BARS WITH 3 LENGTHS PER LINE.
3. FOR BILL OF MATERIAL AND WINGWALL DETAILS, SEE SHEET S11.
4. FOR ANCHOR WALL AND TIE ROD DETAILS, SEE SHEET S15.

DESIGNED	MS
CHECKED	JIG
DRAWN	MS
CHECKED	JIG

PILE DATA

TYPE: STEEL HP 12X53 PILES W/METAL SHOES
DESIGN CAPACITY: 55 TON
DRIVEN CAPACITY: 69 TON
EST. LENGTH: 57'
NO. REQ'D.: 21 PLUS 1 TEST PILE

LEGEND

I - PILE
E.F. - EACH FACE
BOT. - BOTTOM
ABUT. - ABUTMENT
BRG. - BEARING
BTWN. - BETWEEN
P.J.F. - PREFORMED JOINT FILLER

PARSONS BRINCKERHOFF

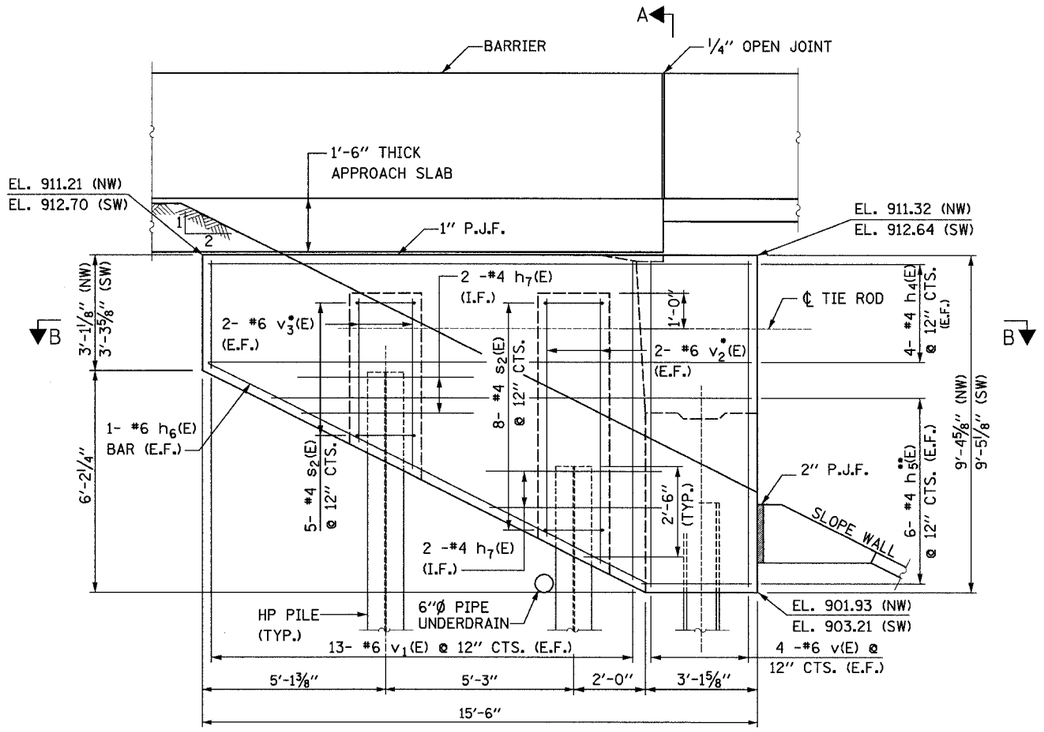
NORTH ABUTMENT (SB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

SSDGNSS
SSPPSSS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	190
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

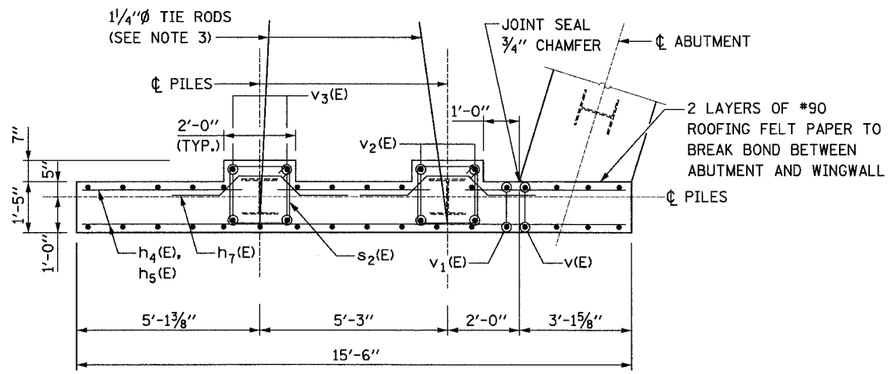
SHEET NO. S11
OF SHEETS S47



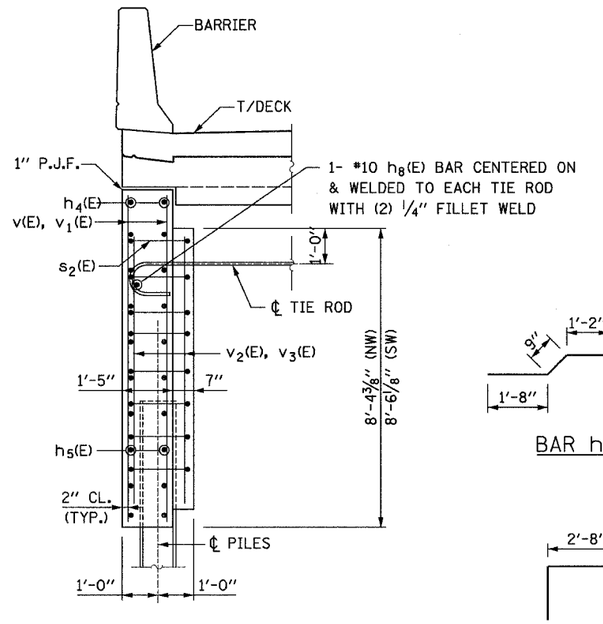
NW WINGWALL ELEVATION
(SW WINGWALL OPPOSITE HAND)

A

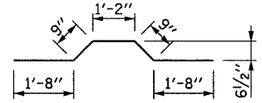
* CUT TO FIT
** CUT TO FIT (INSIDE BARS ONLY)



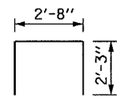
SECTION B-B



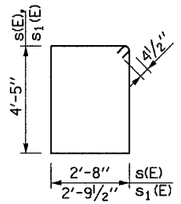
SECTION A-A



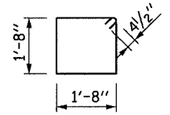
BAR h7(E)



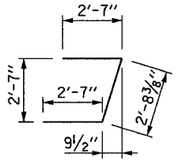
BAR u(E)



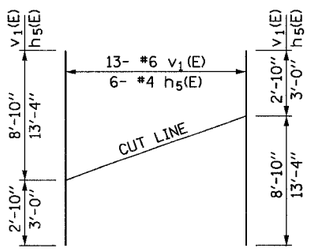
BAR s(E) & s1(E)



BAR s2(E)



BAR u1(E)



FIELD CUTTING DIAGRAM
CUT AS SHOWN AND USE REMAINDER OF BARS IN OPPOSITE FACE

REINFORCING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	SHAPE
d_{10}(E)	116	#8	5'-0"	
h(E)	60	#5	27'-6"	
h_1(E)	6	#5	29'-9"	
h_2(E)	12	#4	27'-2"	
h_3(E)	6	#5	17'-7"	
h_4(E)	16	#4	15'-2"	
h_5(E)	26	#4	16'-4"	
h_6(E)	4	#4	13'-10"	
h_7(E)	8	#4	6'-0"	
h_8(E)	4	#10	2'-6"	
p(E)	48	#7	29'-3"	
s(E)	160	#4	14'-11"	
s_1(E)	4	#4	15'-2"	
s_2(E)	26	#4	7'-5"	
u(E)	91	#4	7'-2"	
u_1(E)	28	#6	10'-7"	
v(E)	16	#6	9'-0"	
v_1(E)	24	#6	11'-8"	
v_2(E)	8	#6	7'-2"	
v_3(E)	8	#6	4'-6"	

BILL OF MATERIAL

PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
50200100	Structure Excavation	Cu. Yds.	426
50300225	Concrete Structures	Cu. Yds.	105.7
50800205	Reinforcement Bars, Epoxy Coated	Pound	10,640
51201600	Furnishing Steel Piles HP 12x53	Foot	2,226
51202700	Driving Steel Piles	Foot	2,226
51203600	Test Pile Steel HP 12x53	Each	2
51204600	Metal Shoes	Each	42
60107700	Pipe Underdrains 6"	Foot	157
59100100	Geocomposite Wall Drain	Sq. Yd.	183.8
20700220	Porous Granular Embankment (Special)	Cu. Yds.	459.6

QUANTITIES SHOWN ARE THE TOTAL FOR N. ABUT. (SB) & S. ABUT. (SB) INCLUDING NW & SW WINGWALLS.

NOTES:

1. ALL REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
2. WORK THIS SHEET WITH SHEETS S09 & S10.
3. FOR ANCHOR WALL AND TIE ROD DETAILS, SEE SHEET S15.

LEGEND

I - PILE
E.F. - EACH FACE
I.F. - INSIDE FACE
T/ - TOP OF
P.J.F. - PREFORMED JOINT FILLER

DESIGNED	MS
CHECKED	JIG
DRAWN	MS
CHECKED	JIG

PB PARSONS BRINCKERHOFF

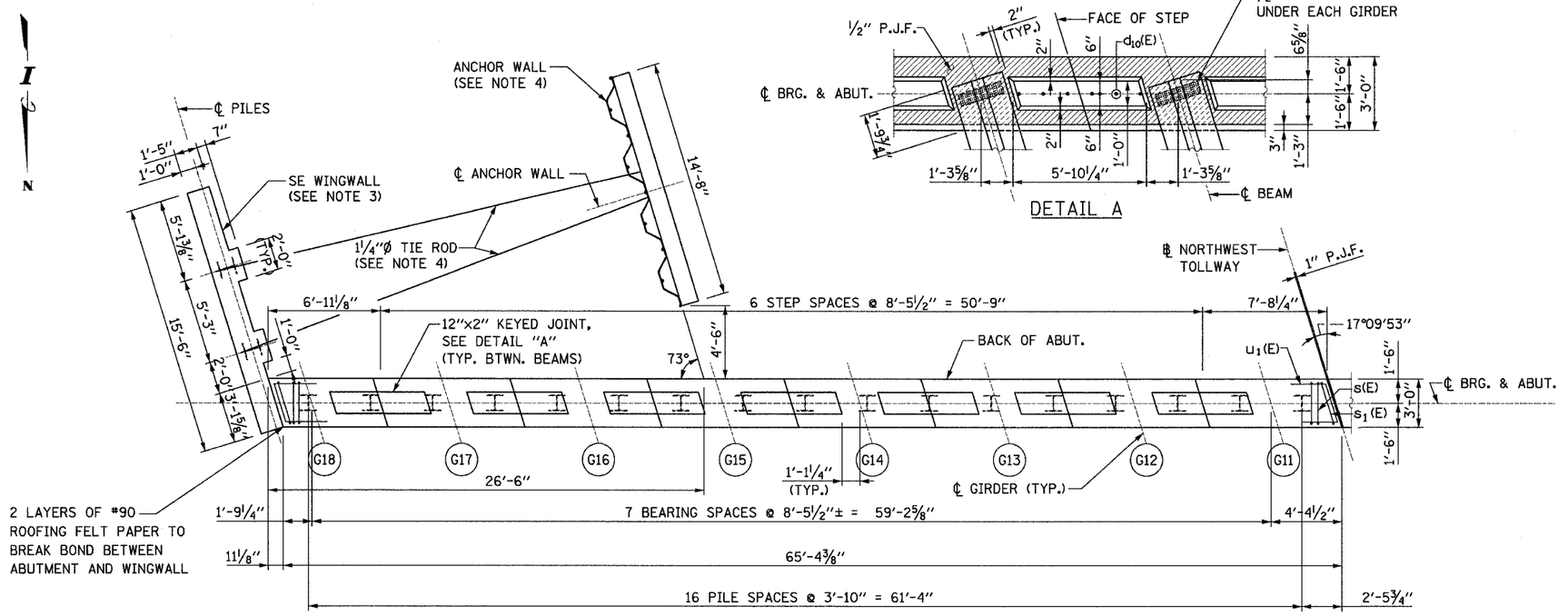
ABUTMENT & WINGWALL DETAILS (SB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGN$$
$$PFS$$

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129k	WINNEBAGO	585	191
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT= CONTRACT NO. 64594		

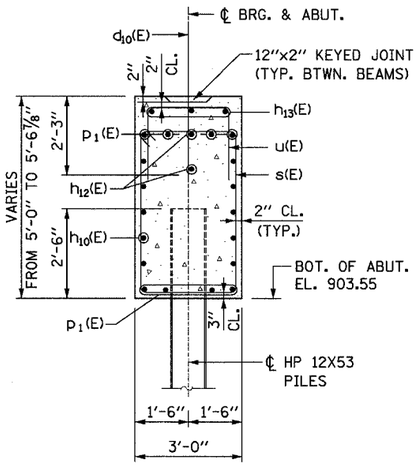
SHEET NO. S12
OF SHEETS S47

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

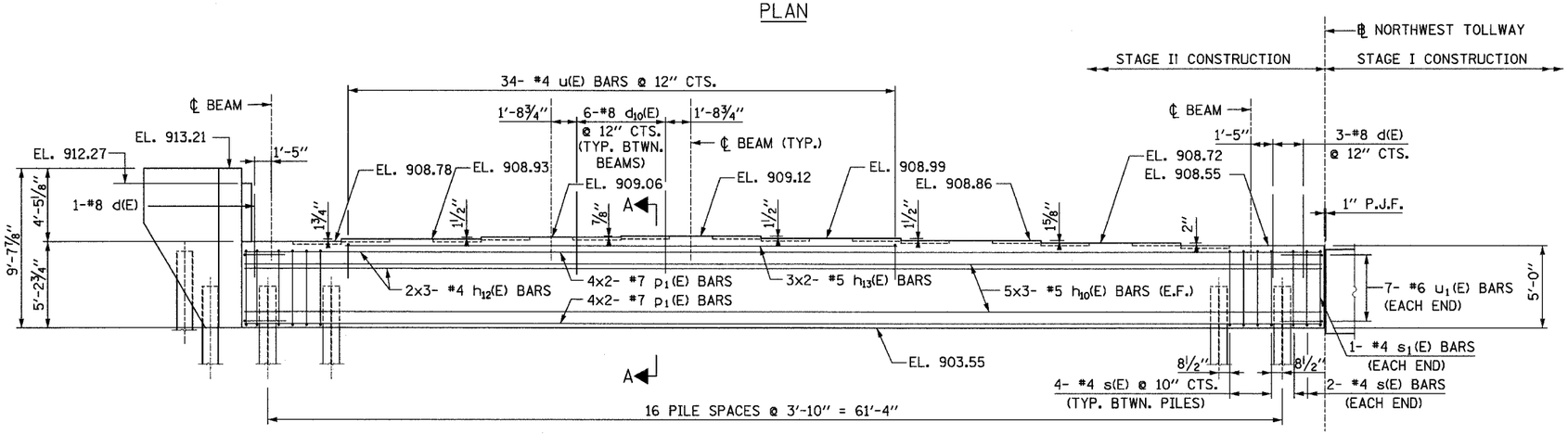


PLAN

DETAIL A



SECTION A-A



ELEVATION
(LOOKING SOUTH)

NOTES:

1. ALL REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
2. BARS INDICATED THUS 2X3 -#5 ETC. INDICATES 2 LINE OF BARS WITH 3 LENGTHS PER LINE.
3. FOR BILL OF MATERIAL AND WINGWALL DETAILS, SEE SHEET S14.
4. FOR ANCHOR WALL AND TIE ROD DETAILS, SEE SHEET S15.

DESIGNED	MS
CHECKED	JIG
DRAWN	MS
CHECKED	JIG

PILE DATA

TYPE: STEEL HP 12X53 PILES W/METAL SHOES
DESIGN CAPACITY: 55 TON
DRIVEN CAPACITY: 69 TON
EST. LENGTH: 49'
NO. REQ'D.: 19

LEGEND

I - PILE
E.F. - EACH FACE
BOT. - BOTTOM
ABUT. - ABUTMENT
BRG. - BEARING
BTWN. - BETWEEN
P.J.F. - PREFORMED JOINT FILLER

PB PARSONS BRINCKERHOFF

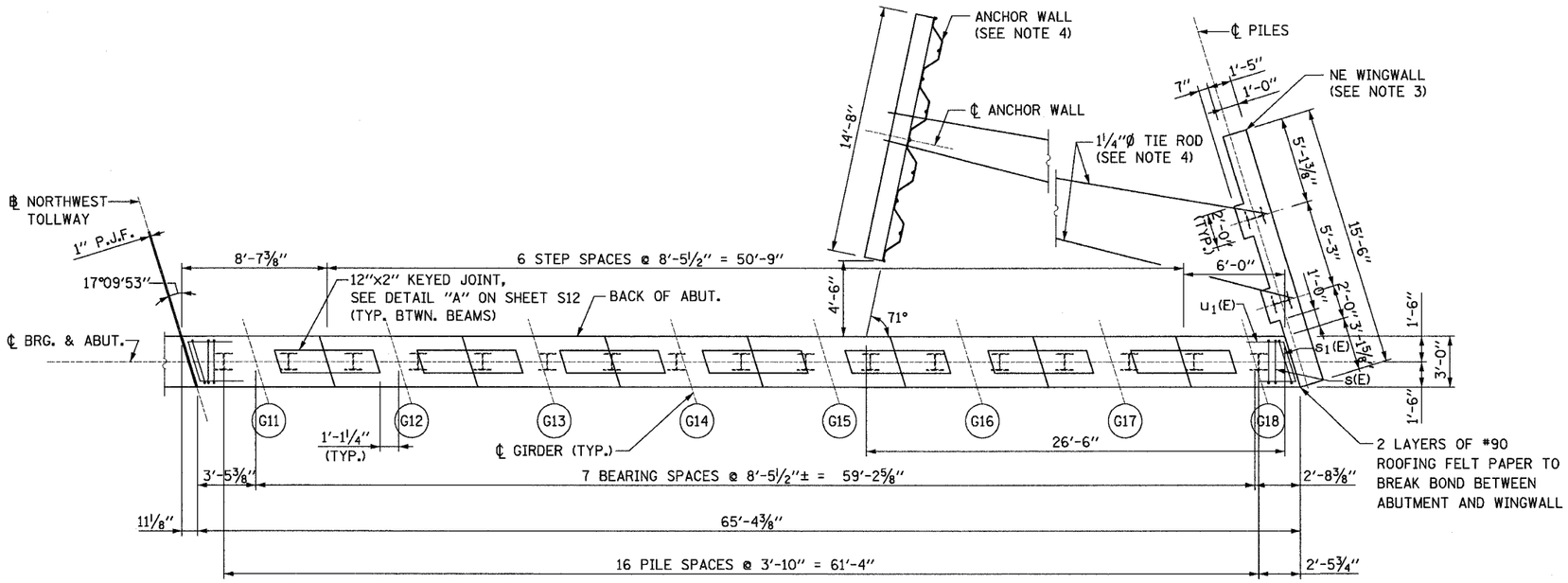
SOUTH ABUTMENT (NB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGN$$
$$PRFS$$

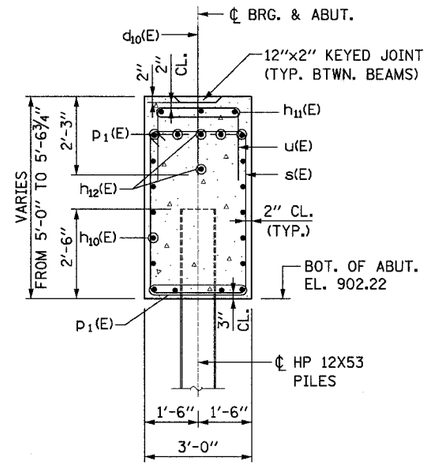
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129k	WINNEBAGO	585	192
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT- CONTRACT NO. 64594		

SHEET NO. S13
OF SHEETS S47

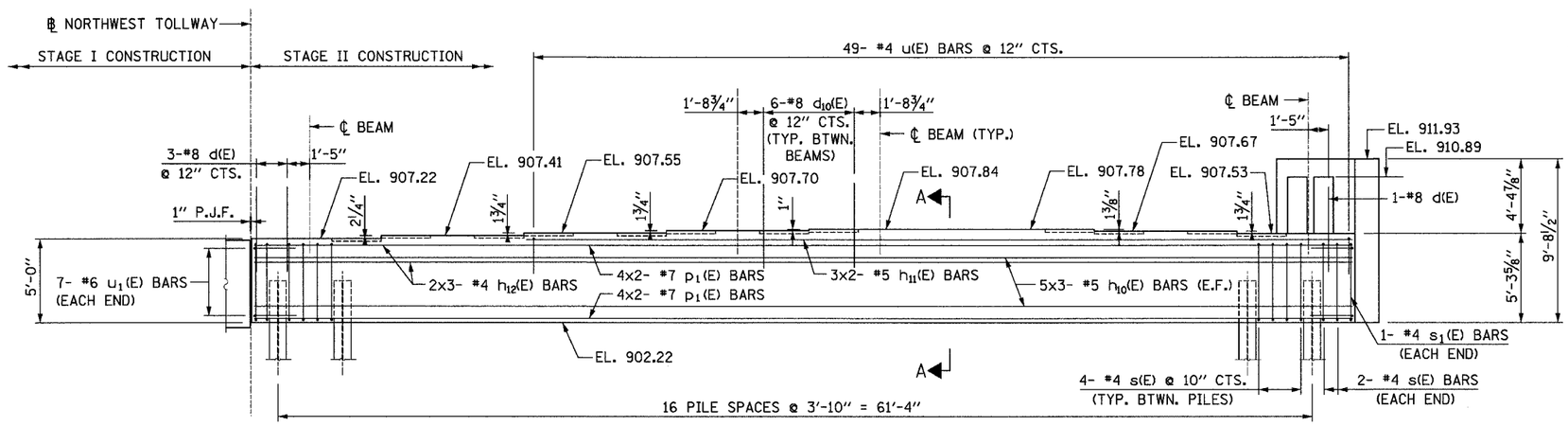
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN



SECTION A-A



ELEVATION
(LOOKING NORTH)

NOTES:

1. ALL REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
2. BARS INDICATED THUS 2X3 -#5 ETC. INDICATES 2 LINE OF BARS WITH 3 LENGTHS PER LINE.
3. FOR BILL OF MATERIAL AND WINGWALL DETAILS, SEE SHEET S14.
4. FOR ANCHOR WALL AND TIE ROD DETAILS, SEE SHEET S15.

DESIGNED	MS
CHECKED	JIG
DRAWN	MS
CHECKED	JIG

PILE DATA

TYPE: STEEL HP 12X53 PILES W/METAL SHOES
DESIGN CAPACITY: 55 TON
DRIVEN CAPACITY: 69 TON
EST. LENGTH: 57'
NO. REQ'D.: 19

LEGEND

I - PILE
E.F. - EACH FACE
BOT. - BOTTOM
ABUT. - ABUTMENT
BRG. - BEARING
BTWN. - BETWEEN
P.J.F. - PREFORMED JOINT FILLER

PB PARSONS BRINCKERHOFF

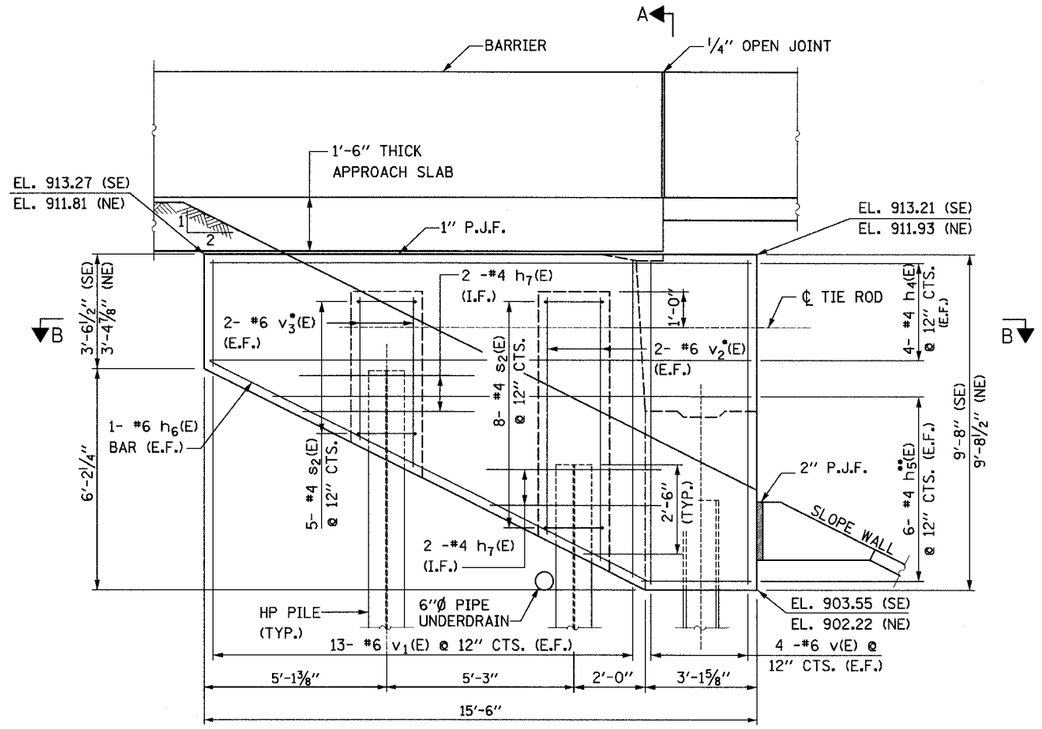
NORTH ABUTMENT (NB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGN$$
$$PRF$$

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	193
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S14
OF SHEETS S47

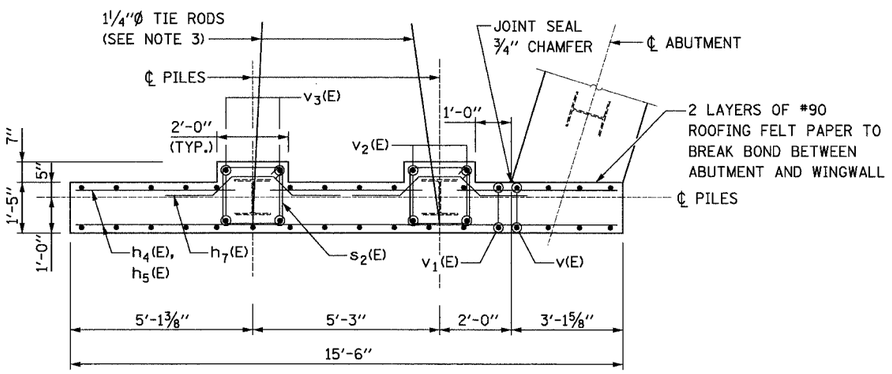
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



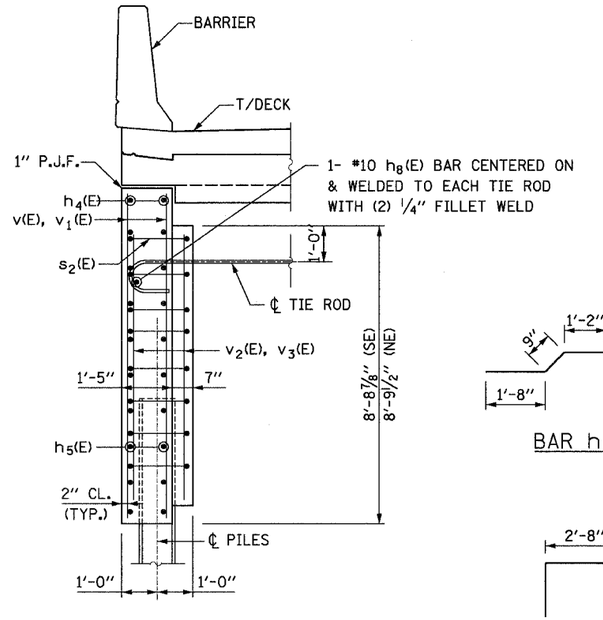
SE WINGWALL ELEVATION
(NE WINGWALL OPPOSITE HAND)

A

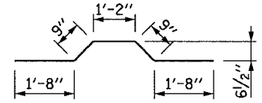
* CUT TO FIT
** CUT TO FIT (INSIDE BARS ONLY)



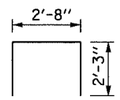
SECTION B-B



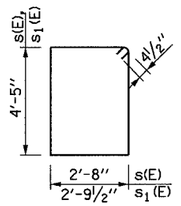
SECTION A-A



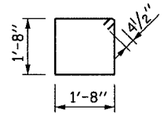
BAR h7(E)



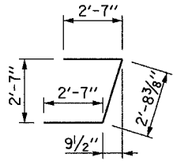
BAR u(E)



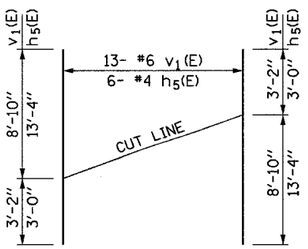
BAR s(E) & s1(E)



BAR s2(E)



BAR u1(E)



FIELD CUTTING DIAGRAM
CUT AS SHOWN AND USE REMAINDER OF BARS IN OPPOSITE FACE

REINFORCING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	SHAPE
d10(E)	92	#8	5'-0"	
h4(E)	16	#4	15'-2"	
h5(E)	26	#4	16'-4"	
h6(E)	4	#4	13'-10"	
h7(E)	8	#4	6'-0"	
h8(E)	4	#10	2'-6"	
h10(E)	60	#5	23'-2"	
h11(E)	6	#5	25'-6"	
h12(E)	12	#4	22'-10"	
h13(E)	6	#4	18'-3"	
p1(E)	32	#7	34'-11"	
s(E)	136	#4	14'-11"	
s1(E)	4	#4	15'-2"	
s2(E)	26	#4	7'-5"	
u(E)	83	#4	7'-2"	
u1(E)	28	#6	10'-7"	
v(E)	16	#6	9'-0"	
v1(E)	24	#6	11'-8"	
v2(E)	8	#6	7'-2"	
v3(E)	8	#6	4'-6"	

BILL OF MATERIAL

PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
50200100	Structure Excavation	Cu. Yds.	360
50300225	Concrete Structures	Cu. Yds.	90.7
50800205	Reinforcement Bars, Epoxy Coated	Pound	9,120
51201600	Furnishing Steel Piles HP 12x53	Foot	2,014
51202700	Driving Steel Piles	Foot	2,014
51204600	Metal Shoes	Each	38
60107700	Pipe Underdrains 6"	Foot	131
59100100	Geocomposite Wall Drain	Sq. Yd.	161.4
20700220	Porous Granular Embankment (Special)	Cu. Yds.	411.3

QUANTITIES SHOWN ARE THE TOTAL FOR N. ABUT. (NB) & S. ABUT. (NB) INCLUDING NE & SE WINGWALLS.

NOTES:

1. ALL REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
2. WORK THIS SHEET WITH SHEETS S12 & S13.
3. FOR ANCHOR WALL AND TIE ROD DETAILS, SEE SHEET S15.

LEGEND

I - PILE
E.F. - EACH FACE
I.F. - INSIDE FACE
T/ - TOP OF
P.J.F. - PREFORMED JOINT FILLER

DESIGNED	MS
CHECKED	JIG
DRAWN	MS
CHECKED	JIG

PB PARSONS BRINCKERHOFF

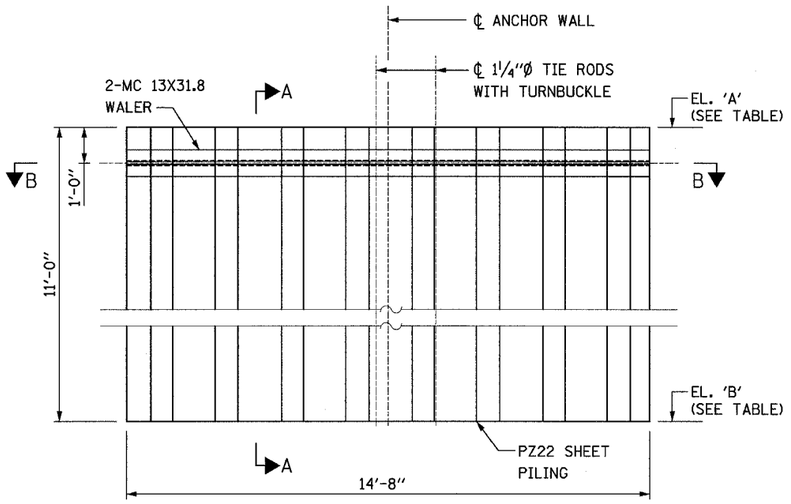
ABUTMENT & WINGWALL DETAILS (NB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGN$$
$$PRFF$$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	194
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

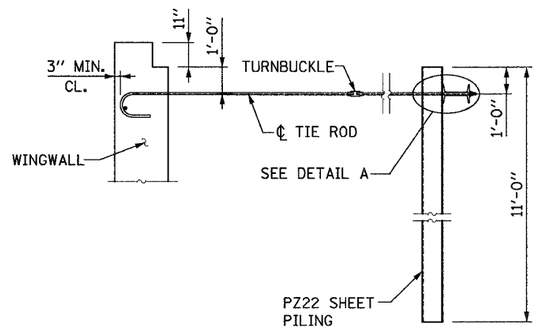
SHEET NO. S15
OF SHEETS S47



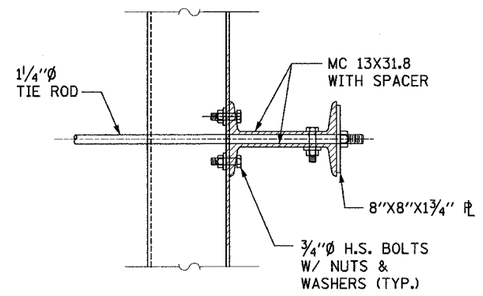
ANCHOR WALL ELEVATION

TABLE

LOCATION	ELEVATION	
	A	B
NORTHWEST	910.29	899.29
SOUTHWEST	911.72	900.72
NORTHEAST	910.89	899.89
SOUTHEAST	912.29	901.29



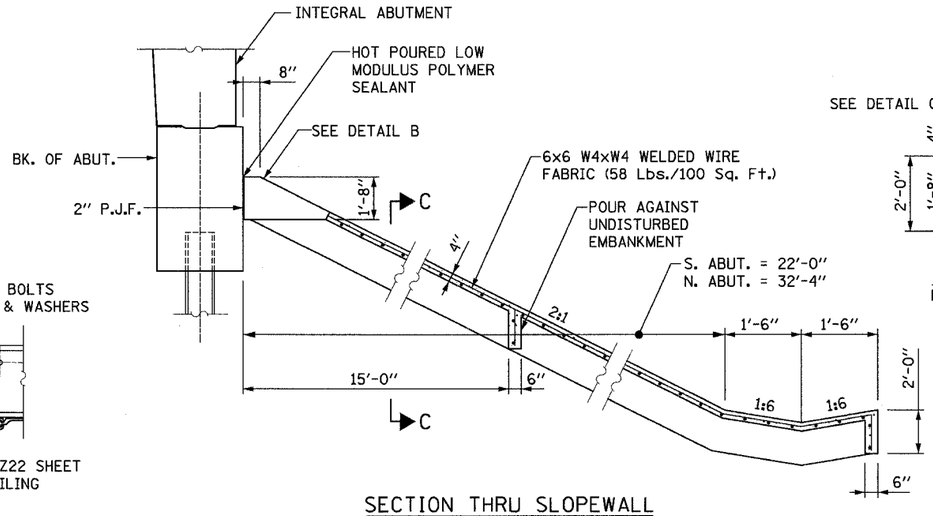
SECTION A-A



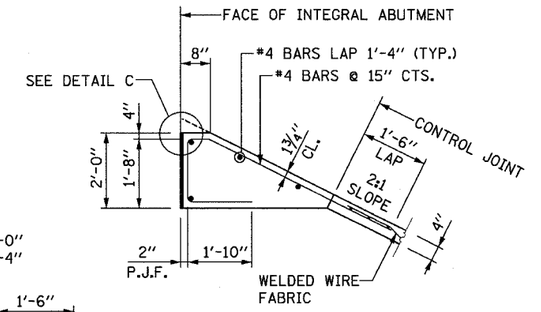
DETAIL A

NOTES:

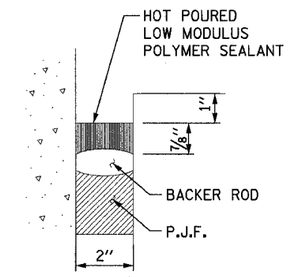
1. WORK THIS SHEET WITH SHEETS S09 THROUGH S14.
2. STEEL SHEET PILING SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M202.
3. HIGH STRENGTH STEEL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M164.
4. WALE SHALL CONFORM TO THE REQUIREMENT OF AASHTO M270 GRADE 36.
5. TIE RODS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M183.
6. TIE RODS AND TURNBUCKLES SHALL BE GIVEN ONE SHOP COAT OF INORGANIC ZINC RICH PRIMER. AFTER FIELD INSTALLATION THE TIE RODS AND TURNBUCKLES SHALL BE WRAPPED WITH "TAPECOAT - CT" OR AN APPROVED EQUAL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
7. THE COST OF WALERS, TIE RODS, TURNBUCKLES, PLATES, SHIMS, NUTS & BOLTS ETC. NECESSARY FOR ANCHOR WALL ASSEMBLY INCLUDING CUTTING HOLES IN SHEET PILING FOR THE TIE RODS, IS INCLUDED WITH THE COST OF STEEL SHEET PILING (SPECIAL).



SECTION THRU SLOPEWALL

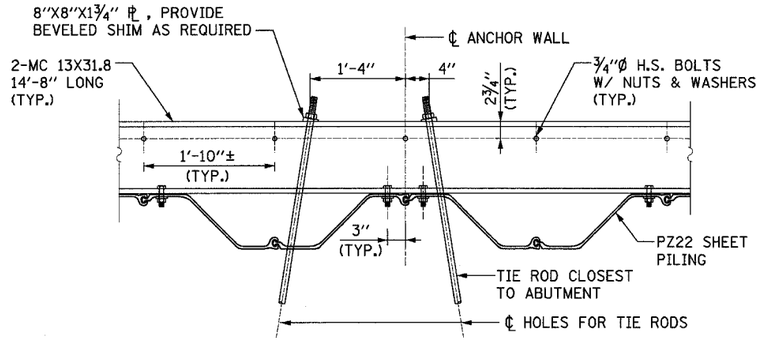


DETAIL B

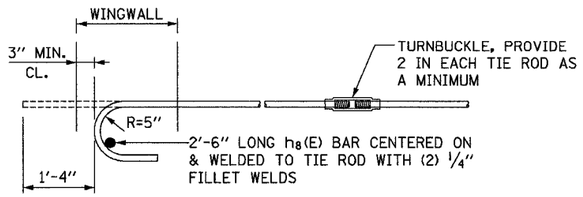


DETAIL C

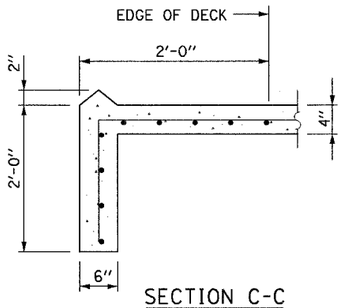
SEALANT BACKER ROD AND PJF SHALL MEET THE REQUIREMENTS OF SECTION 1050.2 OF THE STANDARD SPECIFICATION.



SECTION B-B



TIE ROD DETAIL
(SEE NOTE 7)



SECTION C-C

BILL OF MATERIAL

PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
51204910	Steel Sheet Piling (Special)	Sq. Ft.	646
51100100	Slopewall 4"	Sq. Yds.	1119

DESIGNED	MS
CHECKED	JIG
DRAWN	MS
CHECKED	JIG

ANCHOR WALL AND
SLOPE WALL DETAILS
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

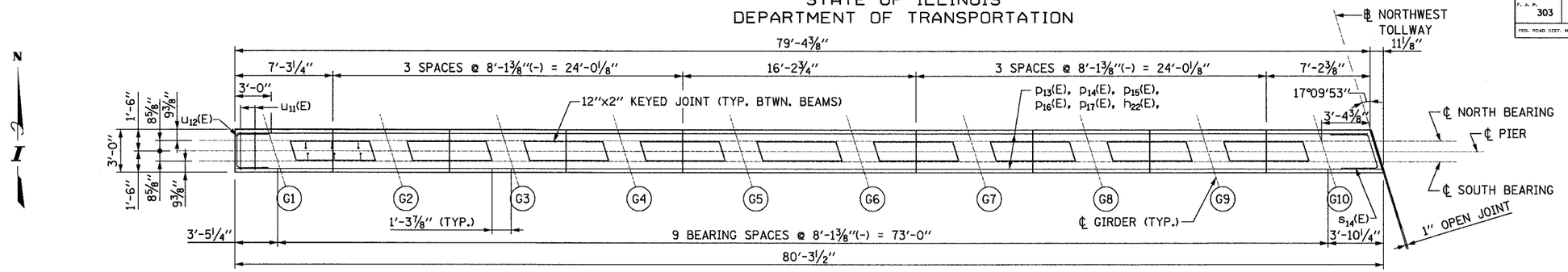
PB PARSONS BRINCKERHOFF

$$DGNSS
$$PRFSS

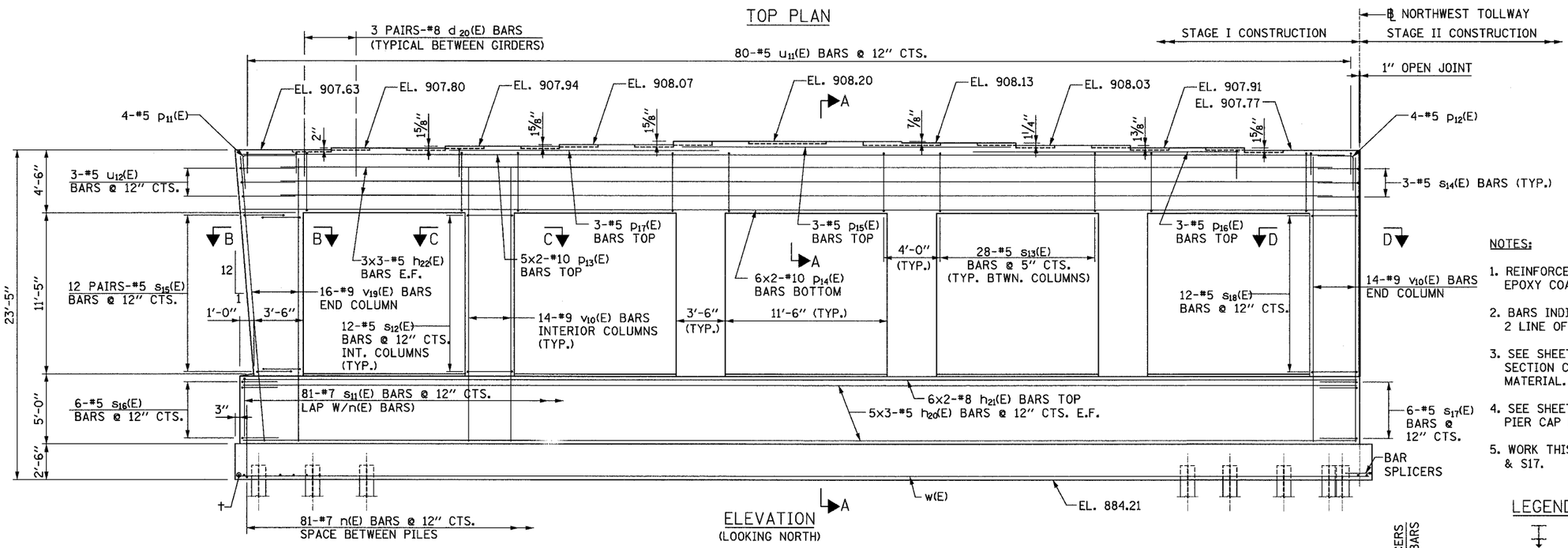
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129k	WINNEBAGO	585	195
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT- CONTRACT NO. 64594		

SHEET NO. S16
OF SHEETS S47

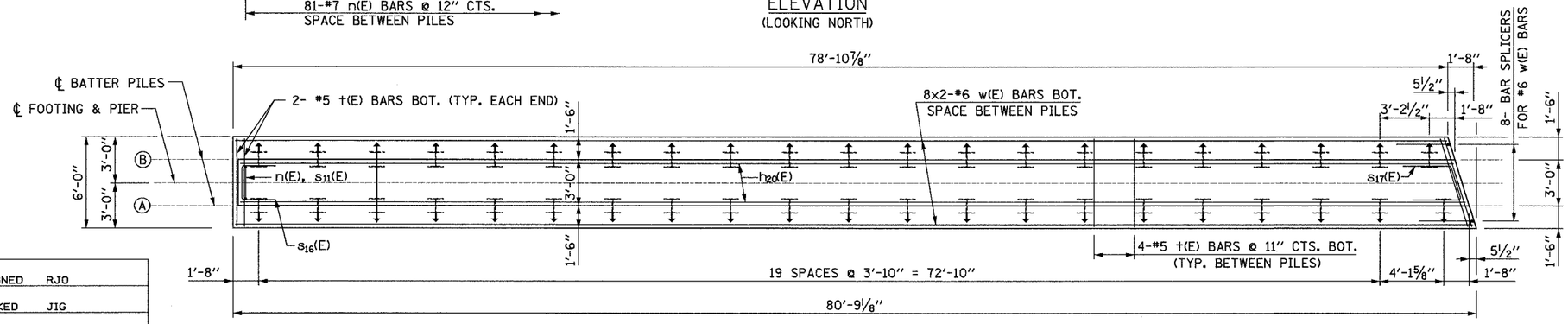
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TOP PLAN



ELEVATION
(LOOKING NORTH)



FOOTING PLAN

DESIGNED	RJO
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

NOTES:

1. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
2. BARS INDICATED THUS 2X3 -#5 ETC. INDICATES 2 LINE OF BARS WITH 3 LENGTHS PER LINE.
3. SEE SHEET S17 FOR SECTION A-A, SECTION B-B, SECTION C-C, SECTION D-D AND BILL OF MATERIAL.
4. SEE SHEET S17 FOR END VIEW OF PIER AND PIER CAP KEYWAY DETAIL.
5. WORK THIS SHEET WITH SHEET S06, S07, S08 & S17.

LEGEND

- BATTER PILES
- E.F. - EACH FACE
- BOT. - BOTTOM
- BTWN. - BETWEEN
- (A) PILE LINE
- (G8) GIRDER NUMBER

PIER (SB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

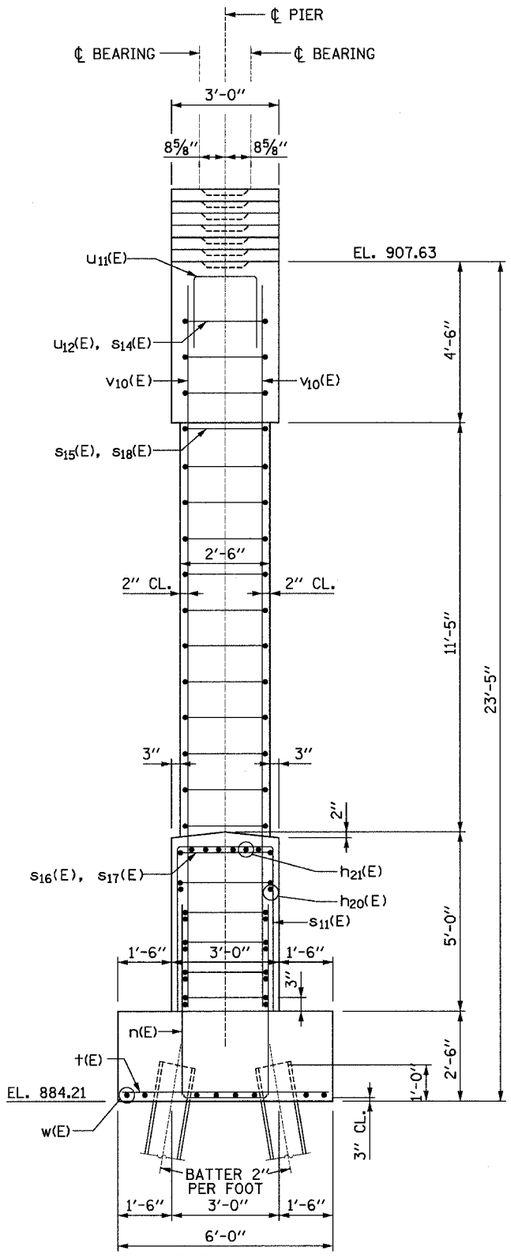
PARSONS BRINCKERHOFF

$$DGN$$
$$PRFS$$

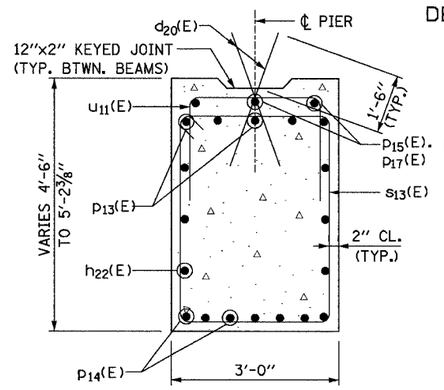
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	196
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

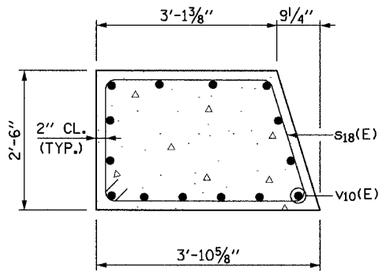
SHEET NO. S17
OF SHEETS S47



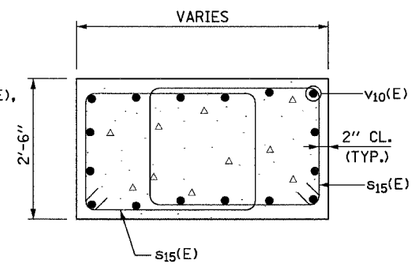
END VIEW



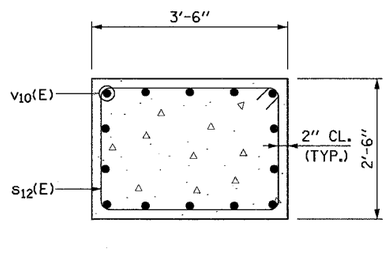
SECTION A-A



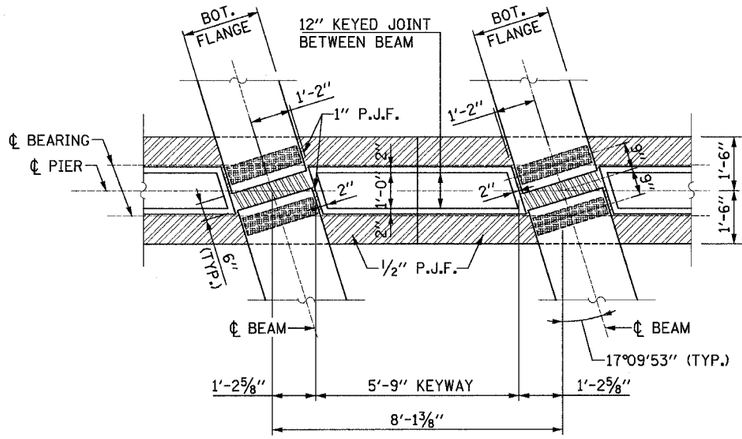
SECTION D-D



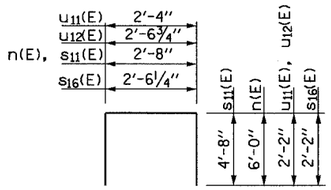
SECTION B-B



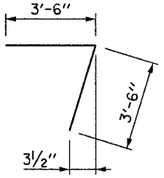
SECTION C-C



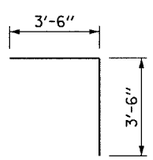
PIER CAP KEYWAY DETAIL



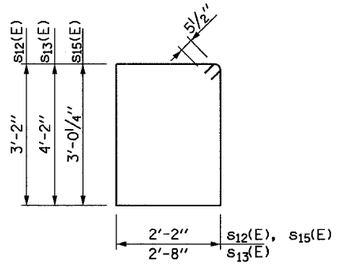
BAR n(E), s11(E), s16(E), u11(E), u12(E)



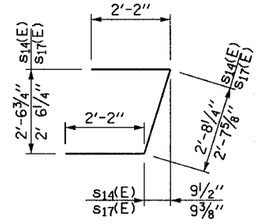
BAR p11(E)



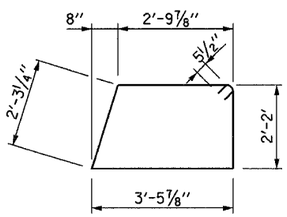
BAR p12(E)



BAR s12(E), s13(E), s15(E)



BAR s14(E), s17(E)



BAR s18(E)

REINFORCING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	SHAPE
d20(E)	54	#8	3'-0"	
h20(E)	30	#5	28'-3"	
h21(E)	12	#8	44'-3"	
h22(E)	18	#5	28'-3"	
n(E)	81	#7	14'-8"	
p11(E)	4	#5	7'-0"	
p12(E)	4	#5	7'-0"	
p13(E)	10	#10	45'-6"	
p14(E)	12	#10	44'-6"	
p15(E)	3	#5	24'-3"	
p16(E)	3	#5	19'-3"	
p17(E)	3	#5	19'-3"	
s11(E)	81	#7	12'-0"	
s12(E)	48	#5	11'-7"	
s13(E)	140	#5	14'-7"	
s14(E)	3	#5	7'-1"	
s15(E)	24	#5	11'-4"	
s16(E)	6	#5	6'-11"	
s17(E)	6	#5	7'-0"	
s18(E)	12	#5	11'-8"	
t(E)	84	#5	5'-8"	
u11(E)	80	#5	6'-8"	
u12(E)	3	#5	6'-11"	
v10(E)	86	#9	20'-9"	
w(E)	16	#6	42'-0"	

BILL OF MATERIAL

PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
50200100	Structure Excavation	Cu. Yds.	155.4
50300225	Concrete Structures	Cu. Yds.	154.6
50800205	Reinforcement Bars, Epoxy Coated	Pound	23,590
51201600	Furnishing Steel Piles HP 12x53	Foot	1,066
51202700	Driving Steel Piles	Foot	1,066
51203600	Test Pile Steel HP 12x53	Each	1
51204600	Metal Shoes	Each	41
50300300	Protective Coat (Special)	Sq. Yd.	313
Z002600	Bar Splicers	Each	8

NOTES:

1. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
2. WORK THIS SHEET WITH SHEET S16.

DESIGNED	RJO
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

PILE DATA

TYPE: STEEL H-PILES W/METAL SHOES
DESIGN CAPACITY: 55 TON
REQUIRED CAPACITY: 69 TON
EST. LENGTH: 26'
NO. REQ'D.: 41 PLUS 1 TEST PILE

PIER DETAILS (SB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

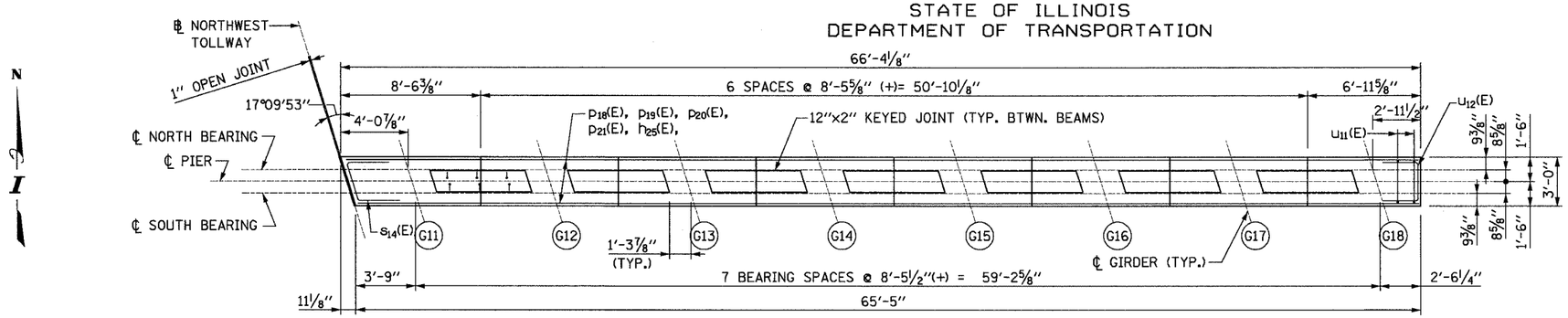
PB PARSONS BRINCKERHOFF

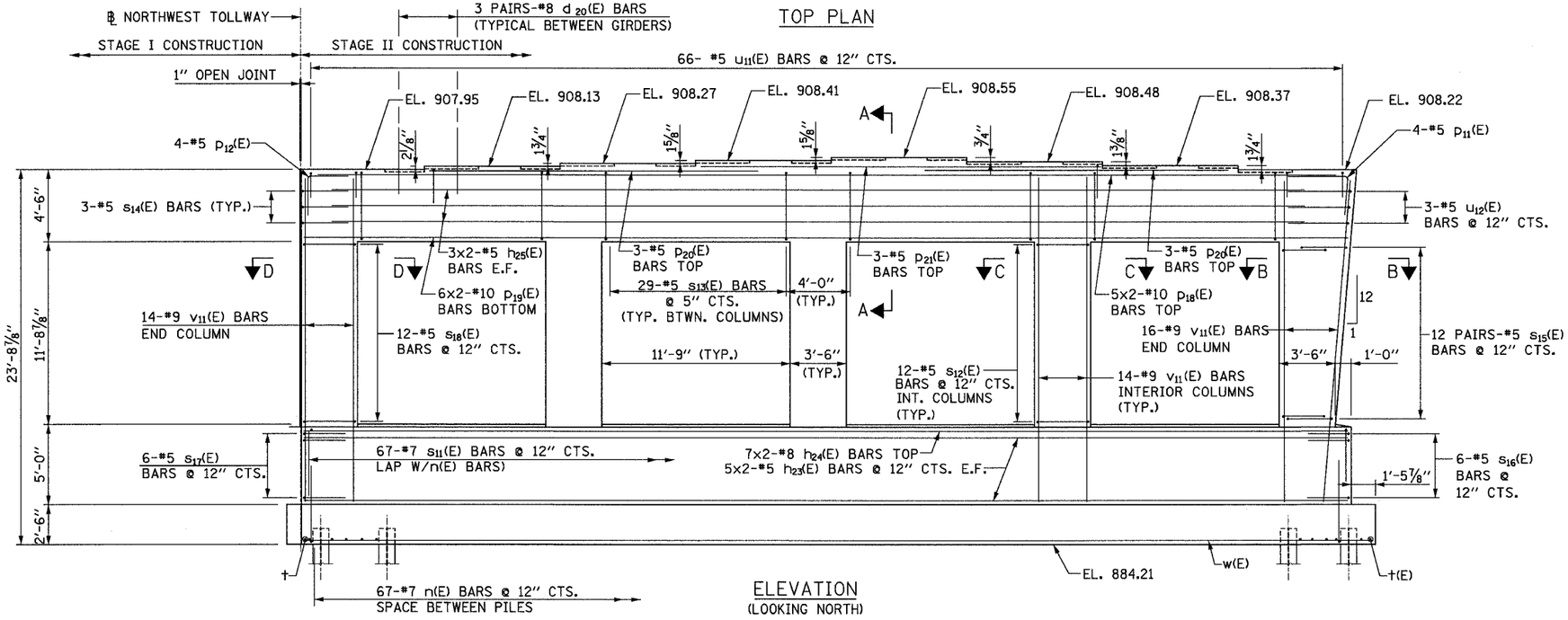
$$DGN$$
$$PRFSS$$

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	197
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S18
OF SHEETS S47

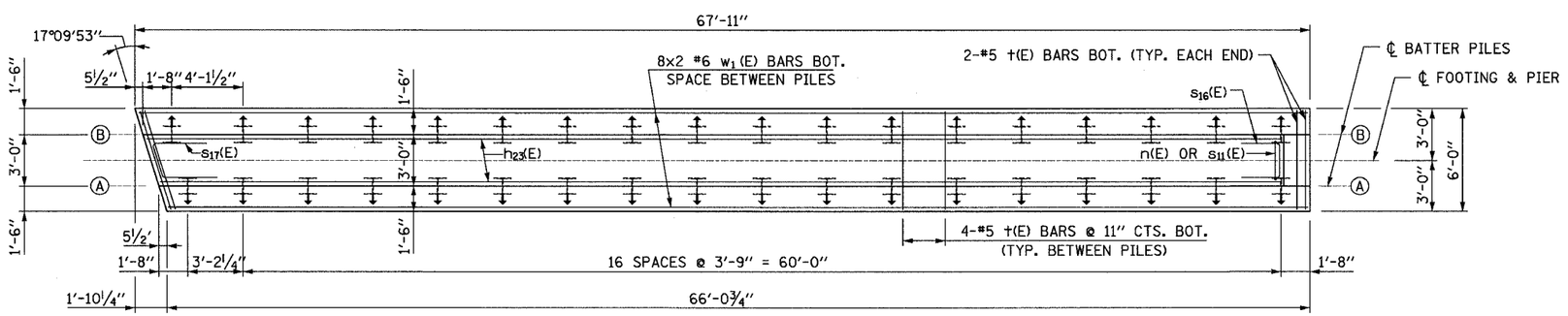
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





TOP PLAN

ELEVATION
(LOOKING NORTH)



FOOTING PLAN

DESIGNED	RJO
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

NOTES:

1. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
2. BARS INDICATED THUS 2X3 -#5 ETC. INDICATES 2 LINE OF BARS WITH 3 LENGTHS PER LINE.
3. SEE SHEET S19 FOR SECTION A-A, SECTION B-B, SECTION C-C, SECTION D-D AND BILL OF MATERIAL.
4. SEE SHEET S19 FOR END VIEW OF PIER AND PIER CAP KEYWAY DETAIL.
5. WORK THIS SHEET WITH SHEET S06, S07, S08 & S19.

LEGEND

- BATTER PILES
- E.F. - EACH FACE
- BOT. - BOTTOM
- BTWN. - BETWEEN
- (A) PILE LINE
- (G8) GIRDER NUMBER

PIER (NB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

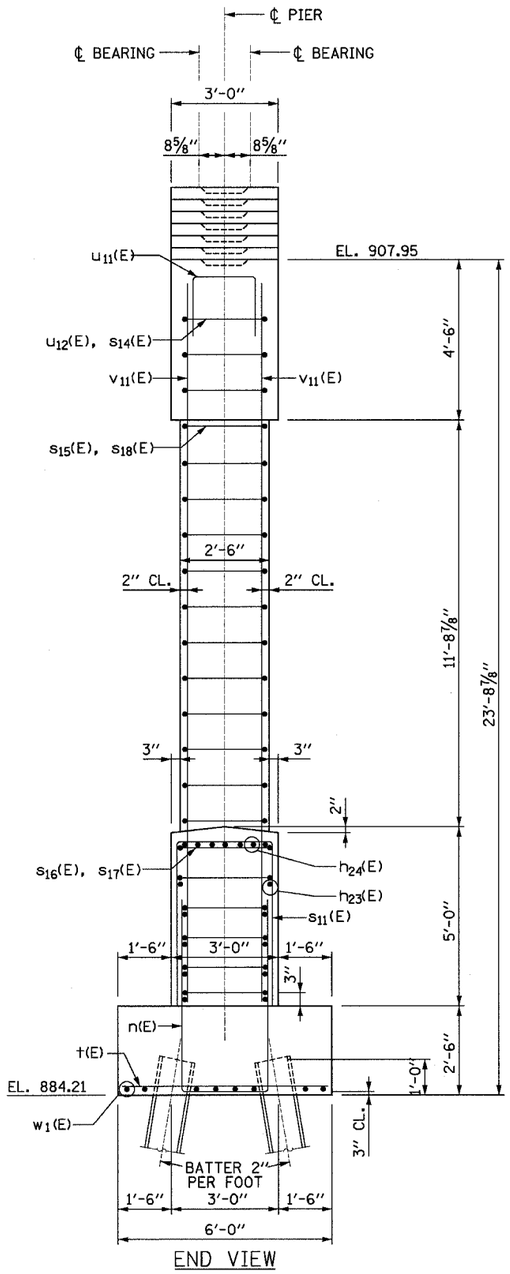
PB PARSONS BRINCKERHOFF

$$DGN$$
$$PFS$$

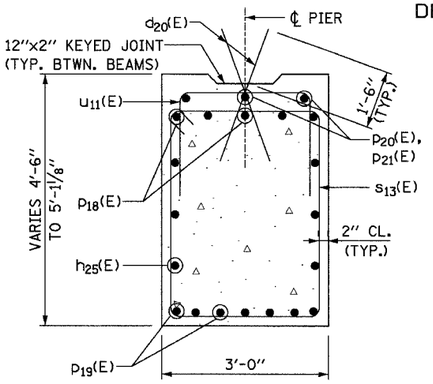
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129k	WINNEBAGO	585	198
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

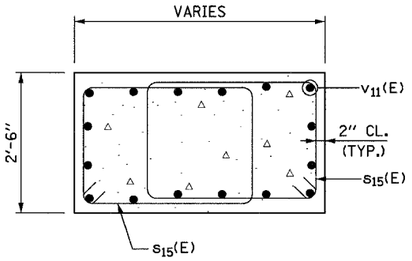
SHEET NO. S19
OF SHEETS S47



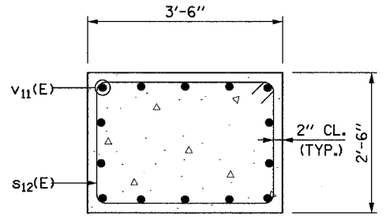
END VIEW



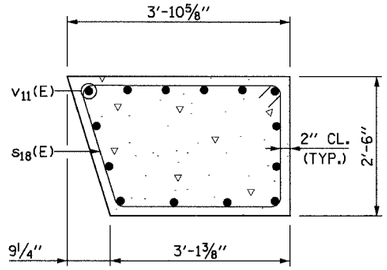
SECTION A-A



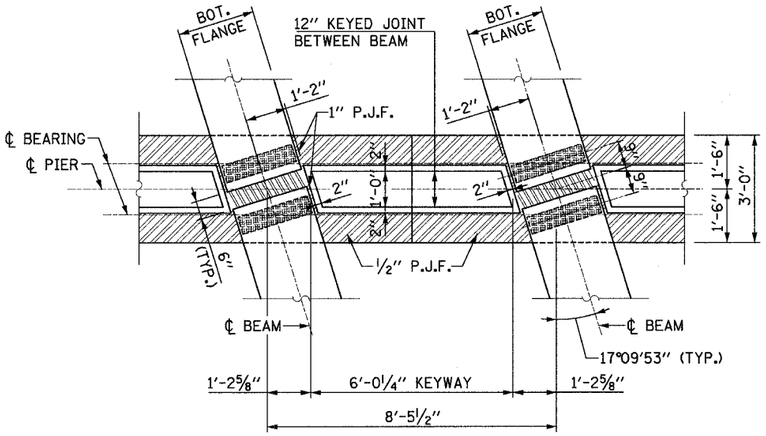
SECTION B-B



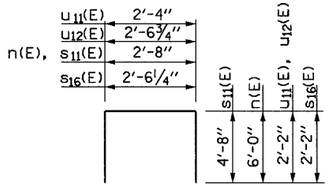
SECTION C-C



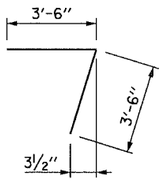
SECTION D-D



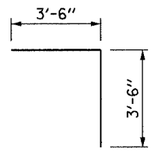
PIER CAP KEYWAY DETAIL



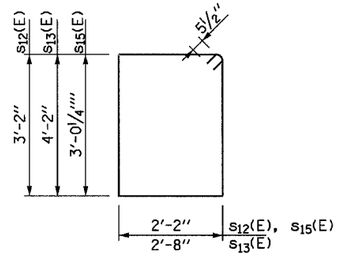
BAR n(E), s11(E), s16(E), u11(E), u12(E)



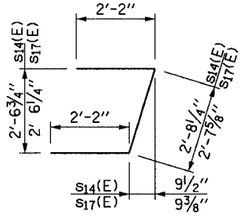
BAR p11(E)



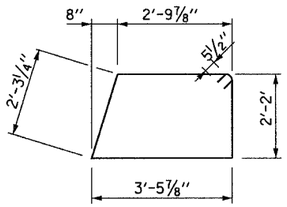
BAR p12(E)



BAR s12(E), s13(E), s15(E)



BAR s14(E), s17(E)



BAR s18(E)

DESIGNED	RJO
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

PILE DATA

TYPE: STEEL H-PILES W/METAL SHOES
DESIGN CAPACITY: 55 TON
REQUIRED CAPACITY: 69 TON
EST. LENGTH: 26'
NO. REQ'D.: 36

REINFORCING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	SHAPE
d20(E)	42	#8	3'-0"	——
h23(E)	20	#5	34'-3"	——
h24(E)	14	#8	37'-3"	——
h25(E)	12	#5	34'-3"	——
n(E)	67	#7	14'-8"	⊓
p11(E)	4	#5	7'-0"	⌐
p12(E)	4	#5	7'-0"	⌐
p18(E)	10	#10	38'-6"	——
p19(E)	12	#10	35'-9"	——
p20(E)	6	#5	20'-0"	——
p21(E)	3	#5	16'-9"	——
s11(E)	67	#7	12'-0"	⊓
s12(E)	36	#5	11'-7"	⊓
s13(E)	116	#5	14'-7"	⊓
s14(E)	3	#5	7'-1"	⌐
s15(E)	24	#5	11'-4"	⊓
s16(E)	6	#5	6'-11"	⊓
s17(E)	6	#5	7'-0"	⌐
s18(E)	12	#5	11'-8"	⏢
t(E)	72	#5	5'-8"	——
u11(E)	66	#5	6'-8"	⊓
u12(E)	3	#5	6'-11"	⊓
v11(E)	72	#9	21'-0"	——
w1(E)	16	#6	35'-4"	——

BILL OF MATERIAL

PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
50200100	Structure Excavation	Cu. Yds.	127.8
50300225	Concrete Structures	Cu. Yds.	128.6
50800205	Reinforcement Bars, Epoxy Coated	Pound	20,040
51201600	Furnishing Steel Piles HP 12x53	Foot	936
51202700	Driving Steel Piles	Foot	936
51204600	Metal Shoes	Each	36
50300300	Protective Coat (Special)	Sq. Yd.	262

NOTES:

1. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

2. WORK THIS SHEET WITH SHEET S18.

PIER DETAILS (NB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

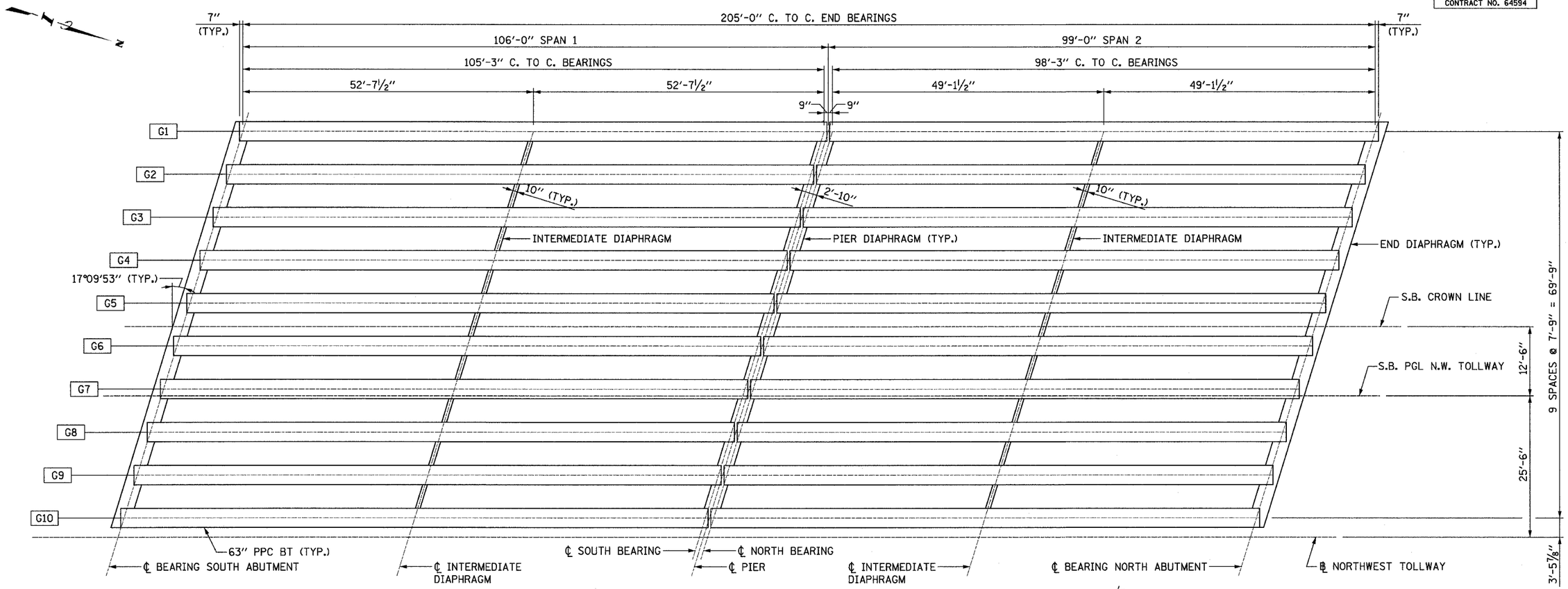
PB PARSONS BRINCKERHOFF

$$DGNSS
$$PRFSS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129K	WINNEBAGO	585	199
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S20
OF SHEETS S47

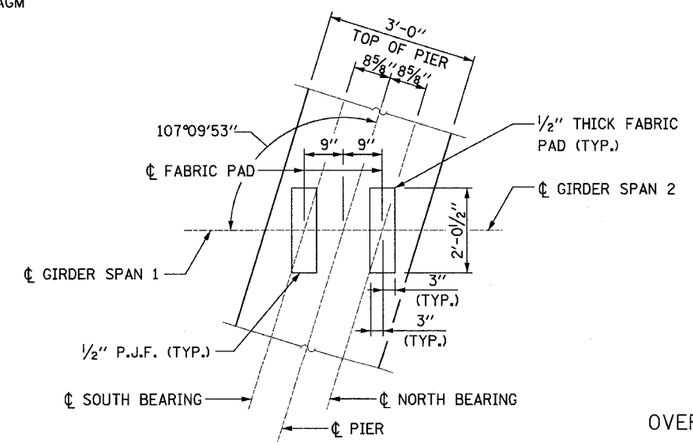


FRAMING PLAN
STAGE I CONSTRUCTION

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1	PIER	0.6 Sp. 2
I	(In^4)	392638	392638	392638
Ic (n)	(In^4)	775001	----	775001
S (TOP)	(In^3)	12715	12715	12715
S (BOTTOM)	(In^3)	12224	12224	12224
Sc (TOP)	(In^3)	49993	----	49993
Sc (BOTTOM)	(In^3)	16317	----	16317
ℚ	(K/ft.)	1.513	----	1.513
Mℚ	('K)	2150	----	1882
sℚ	(K/ft.)	0.277	0.277	0.277
Msℚ	('K)	228	363	180
Mℒ	('K)	926	834	865
M (Imp)	('K)	200	181	193
5/3[Mℒ+M (Imp)]	('K)	1877	1696	1764
MA	('K)	5598	2677	5033
Mu	('K)	6929	3220	5771
FCIB	(k.s.i.)	2.657	2.374	2.165
FCIT	(k.s.i.)	0.173	0.445	0.134
LOSS	(%)	21.0	19.4	18.2

INTERIOR BEAM REACTION TABLE				
		S. ABUT.	PIER	N. ABUT.
Rℚ	(K)	94.0	195.7	87.5
Rℒ	(K)	49.5	76.0	44.9
Imp.	(K)	10.7	16.7	10.0
R (Total)	(K)	154.2	288.3	142.4

I AND S ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE BEAM
Ic AND Sc ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION
MA (APPLIED MOMENT)=1.3[MD + 5/3 (M L M IMP)]
MU IS THE ULTIMATE STRENGTH OF THE SECTION
FCIB IS THE INITIAL STRESS AT BOTTOM FIBER OF THE BEAM DUE TO INITIAL PRESTRESSING WITHOUT LOSS (POSITIVE = COMPRESSION)
FCIT IS THE INITIAL STRESS AT TOP FIBER OF BEAM DUE TO INITIAL PRESTRESSING WITHOUT LOSS (POSITIVE = COMPRESSION)



PLAN OF PIER CAP
GIRDER G1 - G10

DESIGNED	AH
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

PARSONS BRINCKERHOFF

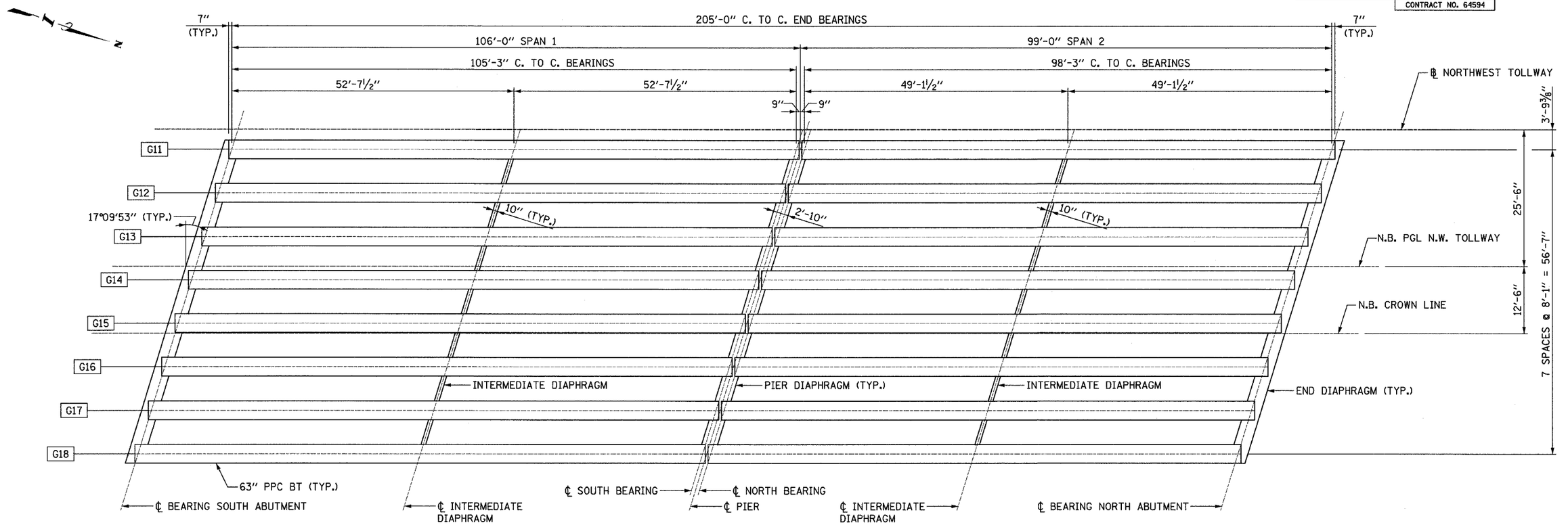
FRAMING PLAN (SB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGNSS
$$PRFSS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 303	129k	WINNEBAGO	585	200
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		
		CONTRACT NO. 64594		

SHEET NO. S21
OF SHEETS S47

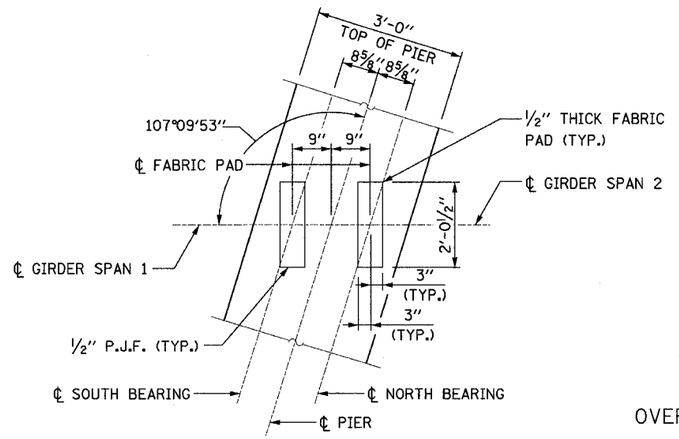


FRAMING PLAN
STAGE II CONSTRUCTION

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1	PIER	0.6 Sp. 2
I	(In^4)	392638	392638	392638
Ic (n)	(In^4)	781801	----	781801
S (TOP)	(In^3)	12715	12715	12715
S (BOTTOM)	(In^3)	12224	12224	12224
Sc (TOP)	(In^3)	51332	----	51332
Sc (BOTTOM)	(In^3)	16366	----	16366
℄	(K/ft.)	1.545	----	1.545
M℄	('K)	2195	----	1922
s℄	(K/ft.)	0.306	0.306	0.306
Ms℄	('K)	252	402	199
M℄	('K)	966	870	902
M (Imp)	('K)	209	188	201
5/3[M℄+M (Imp)]	('K)	1957	1769	1840
MA	('K)	5791	2822	5206
Mu	('K)	6940	3331	5779
FCIB	(k.s.i.)	2.657	2.374	2.165
FCIT	(k.s.i.)	0.173	0.445	0.134
LOSS	(%)	20.8	19.3	18.1

INTERIOR BEAM REACTION TABLE				
		S. ABUT.	PIER	N. ABUT.
R℄	(K)	97.0	202.8	90.2
R℄	(K)	51.6	79.2	46.8
Imp.	(K)	11.2	17.4	10.4
R (Total)	(K)	159.8	299.4	147.4

I AND S ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE BEAM
Ic AND Sc ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION
MA (APPLIED MOMENT)=1.3[MD + 5/3 (M L M IMP)]
MU IS THE ULTIMATE STRENGTH OF THE SECTION
FCIB IS THE INITIAL STRESS AT BOTTOM FIBER OF THE BEAM DUE TO INITIAL PRESTRESSING WITHOUT LOSS (POSITIVE = COMPRESSION)
FCIT IS THE INITIAL STRESS AT TOP FIBER OF BEAM DUE TO INITIAL PRESTRESSING WITHOUT LOSS (POSITIVE = COMPRESSION)



PLAN OF PIER CAP
GIRDER G11 - G18

DESIGNED	AH
CHECKED	JIG
DRAWN	DCP
CHECKED	JIG

PARSONS BRINCKERHOFF

FRAMING PLAN (NB)
N.W. TOLLWAY
OVER IL 173 (F.A.P. ROUTE 303)
SECTION 129K
WINNEBAGO COUNTY
STATION 443+73.62
S.N. 101-9963 (SB) & 101-9964 (NB)
TOLLWAY S.N. 703 (NB) & 704 (SB)

$$DGN$$
$$PRF$$