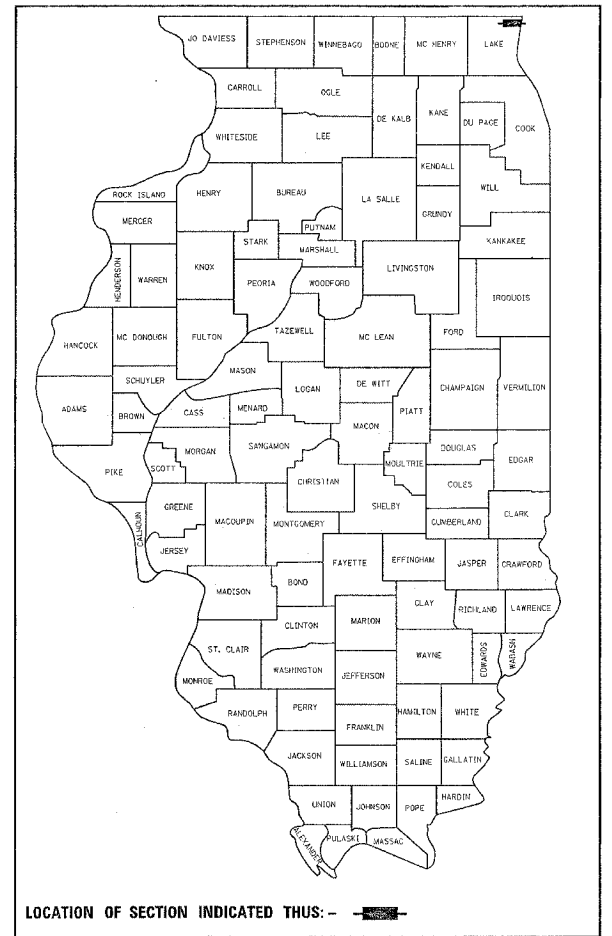


RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	1

* PARK ROADS IDNR File No. 2-03-025B

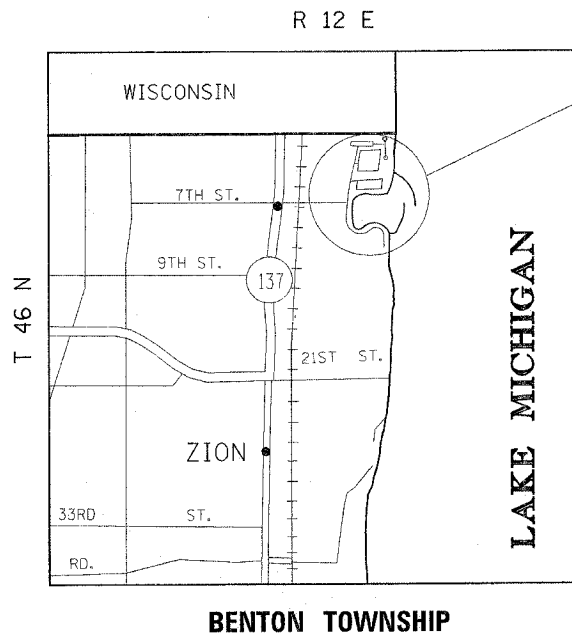
D91-401-06



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
HIGHWAY
PARK ROADS
(ILLINOIS BEACH STATE PARK)
NORTH POINT MARINA
SECTION: 2006-027 I
PARKING LOT IMPROVEMENTS
LAKE COUNTY
C-91-401-06**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE CITY
OF WINTHROP HARBOR AND ILLINOIS BEACH
STATE PARK NORTH IN LAKE COUNTY



IMPROVEMENT LIMITS:
NORTH POINT MARINA

TRAFFIC DATA

POSTED SPEED LIMIT= 5 MPH

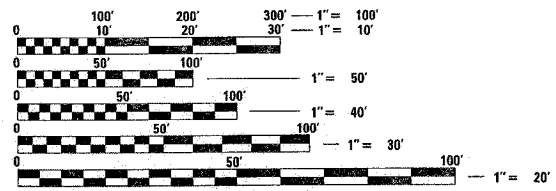
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Nov. 1 20 06
Dione O'Keefe/Cd
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 8, 20 06
Eric E. Haran/PE
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

December 8, 20 06
Milton R. Shea, PE/PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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



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

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

CONTRACT NO. 60873

DISTRICT ONE DESIGN PLAN PREPARATION ENGINEER:
KEN ENG / LONG TRAN (847)705-4240

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	2
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

* PARK ROADS IDNR File No. 2-03-025 B
D91-401-06

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED)
- CONTACT AREA TRAFFIC FIELD ENGINEER, MS. DEBBIE HANLON AT (847) 438-2300, TWO WEEKS PRIOR TO INSTALLATION OF FINAL PAVEMENT MARKINGS.
- SPECIAL CONSTRUCTION MEASURES SHOULD BE EMPLOYED DURING EXCAVATION AND PLACEMENT OF SUBGRADE AND BASE COURSES IN AREAS WHICH CONTAIN EXISTING WATER MAINS.
- THE DEVELOPMENT AND COMPLETION OF THE IMPROVEMENT NEEDS TO INCLUDE AND BE IN COMPLIANCE WITH IDNR'S HEALTH AND SAFETY PLAN.
- CONTACT IDNR'S DISTRICT RESTORATION ECOLOGIST, DEB NELSON AT (815) 675-2386 X-321, IN AT LEAST THE FOLLOWING CIRCUMSTANCES RELATED TO SEEDING OPERATIONS:
 - IMMEDIATELY AFTER THE CONTRACTOR PROVIDES 48-HOUR ADVANCE NOTIFICATION OF THE HAND BROADCAST SEEDING OPERATIONS TO THE RESIDENT ENGINEER.
 - IF THE CONTRACTOR REQUESTS SEED MATERIAL SUBSTITUTIONS, NO SEED SPECIES BE APPROVED BY THE RESIDENT ENGINEER THAT ARE NOT ALSO APPROVED BY IDNR'S RESTORATION ECOLOGIST. THIS IS NECESSARY TO AVOID PLANTING OF UNDESIRABLE SPECIES THAT MAY REQUIRE COSTLY ERADICATION AFTER THE PROJECT IS COLSED OUT.
 - TO REVIEW REQUIRED CERTIFICATIONS, LAB ANALYSIS, AND SAMPLES OF TOPSOIL (SPECIAL), THE INDIVIDUAL COMPOST AND SAND PRODUCTS, AS WELL AS THE FINAL MIXTURES.
- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH NORTH POINT MARINA
- CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS TO PERFORM THE WORK NEEDED TO COMPLETE THE IMPROVEMENT AS SHOWN ON THE PLAN

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3.	SUMMARY OF QUANTITIES
4.	TYPICAL SECTIONS
5.	LOCATIONS OF PARKING LOTS
6-10.	EXISTING UTILITY & PARKING LOT PLANS
11-15.	PROPOSED PARKING LOT PLANS
16-19.	EROSION CONTROL PLAN
20-24.	PROPOSED PAVEMENT MARKING
25.	PROPOSED LOOP DETECTOR DETAIL
26.	PARKING LOT PAVEMENT MARKING AND PLASTIC CAR BUMPER DETAIL
27.	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
28.	BUTT JOINT AND HMA TAPER DETAILS
29.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
30.	TEMPORARY INFORMATION SIGNING
31.	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
424001-04	CURB RAMPS FOR SIDEWALKS
780001-01	TYPICAL PAVEMENT MARKINGS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUT FOR DETECTOR LOOPS
701501-03	
702001-06	

BITUMINOUS MIXTURES REQUIREMENTS CHART

ITEM	AC TYPE	VOID	RAP %
HOT-MIX ASPHALT SURFACE COURSE, SUPERPAVE, MIX "D", N50	PG 64-22	4% @ 50 GYR	15
HOT-MIX ASPHALT BINDER COURSE, SUPERPAVE, IL-19.0, N50	PG 58-22	4% @ 50 GYR	25

* THE UNIT WEIGHT USED FOR ALL HOT-MIX ASHPALT MIXTURES IS 112 LBS/SQ YD IN *

X20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

STATION	OFFSET (FT.)	SIDE	UNIT	TYPE
NORTH POINT DR. 14+30.9	64.16	RT	8	RED MAPLE

X2010300 TREE REMOVAL (UNDER 6 UNITS DIAMETER)

STATION	OFFSET (FT.)	SIDE	UNIT	TYPE
NORTH POINT DR. 23+88.4	62.80	LT	2	HACKBERRY
24+02.7	69.21	LT	2	HACKBERRY

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PLOT DEVICE = HPGL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PARK ROADS
ILLINOIS BEACH STATE PARK
NORTH POINT MARINA
INDEX OF SHEETS, STATE
STANDARDS, GENERAL NOTES AND
SCHEDULE OF QUANTITIES

SCALE: DATE
DRAWN BY: COT
CHECKED BY:

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	3
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
* PARK ROADS		IDNR File No. 2-03-025 D91-401-06		

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	URBAN 100 % STATE	Y025 PARKING				
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	8	8				
20200100	EARTH EXCAVATION	CU YD	394	394				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	117	117				
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1050	1050				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	21	21				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	21	21				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	21	21				
25002014	SEEDING, CLASS 4A (MODIFIED)	ACRE	0.3	0.3				
25200200	SUPPLEMENTAL WATERING	UNIT	11	11				
28000400	PERIMETER EROSION BARRIER	FOOT	13800	13800				
40600215	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	TON	17	17				
40600300	AGGREGATE (PRIME COAT)	TON	84	84				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	20	20				
40600895	CONSTRUCTING TEST STRIP	EACH	1	1				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	600	600				
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	2952	2952				
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2952	2952				
42101300	PROTECTIVE COAT	SQ YD	757	757				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	6815	6815				
44000600	SIDEWALK REMOVAL	SQ FT	6815	6815				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3				
67100100	MOBILIZATION	L SUM	1	1				
* 78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1000	1000				
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	24260	24260				
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	385	385				
X0301339	REMOVE EXISTING PARKING BLOCKS	EACH	622	622				
X0321083	PLASTIC CAR BUMPER	EACH	1300	1300				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	URBAN 100 % STATE	Y025 PARKING				
X0321566	MULCH, SPECIAL	SQ YD	1092	1092				
X0323359	WASHING AND CLEANING	L SUM	1	1				
X2010300	TREE REMOVAL (UNDER 6 UNITS DIAMETER)	UNIT	4	4				
X2110104	TOPSOIL FURNISH AND PLACE, 4" (SPECIAL)	SQ YD	1092	1092				
XX006338	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	1092	1092				
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	1050	1050				

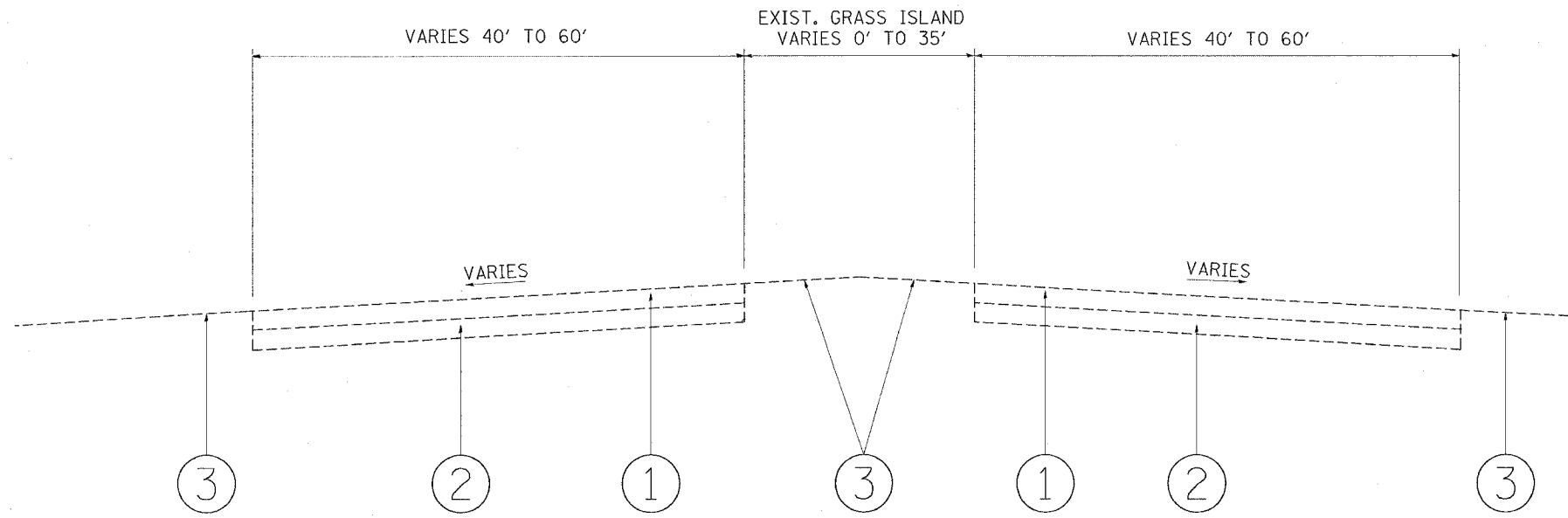
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

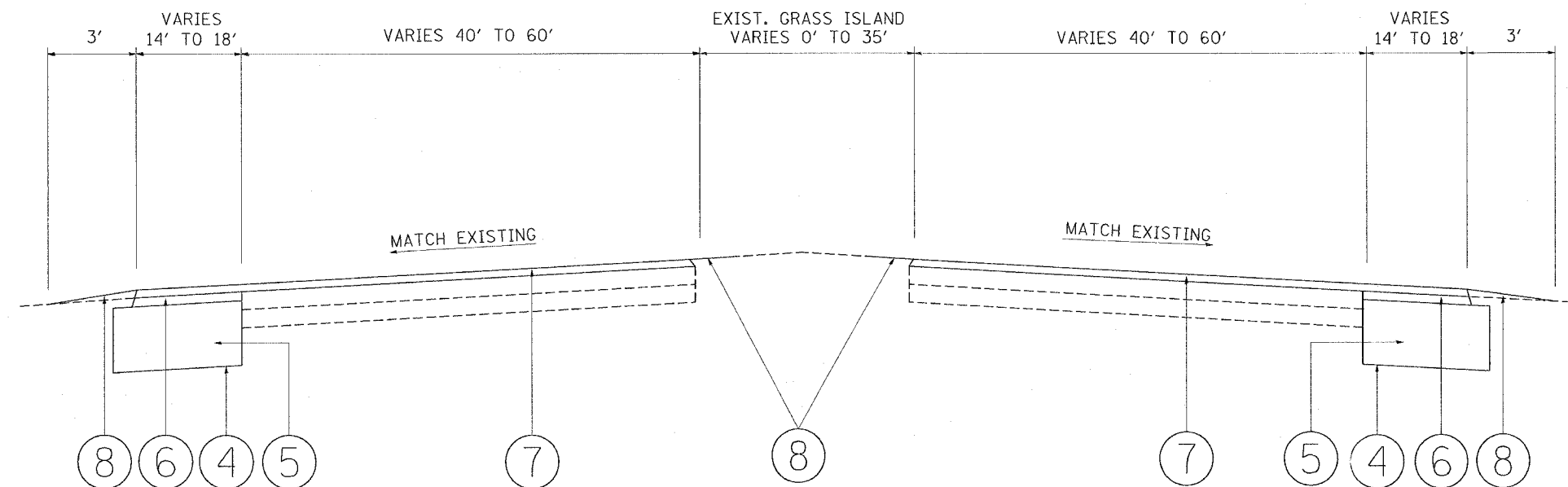
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	4
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* PARK ROADS	IDNR File No. 2-03-025 B	D91-401-06		



EXISTING TYPICAL SECTION
PARKING LOT RESURFACING WITH CORNER WIDENING

- LEGEND**
- ① EXISTING HOT-MIX ASPHALT PAVEMENT, 2 1/2"
 - ② EXISTING AGGREGATE SUBGRADE
 - ③ EXISTING GROUND COVER
 - ④ PROPOSED GEOTECHNICAL FABRIC
 - ⑤ PROPOSED AGGREGATE SUBGRADE, 12"
 - ⑥ PROPOSED HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50, 1 1/2"
 - ⑦ PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - ⑧ PROPOSED TOPSOIL FURNISH AND PLACE, 4" (SPECIAL), SEEDING, CLASS 4A (MODIFIED), EROSION CONTROL BLANKET (SPECIAL) AND MULCH (SPECIAL)



PROPOSED TYPICAL SECTION
PARKING LOT RESURFACING WITH CORNER WIDENING

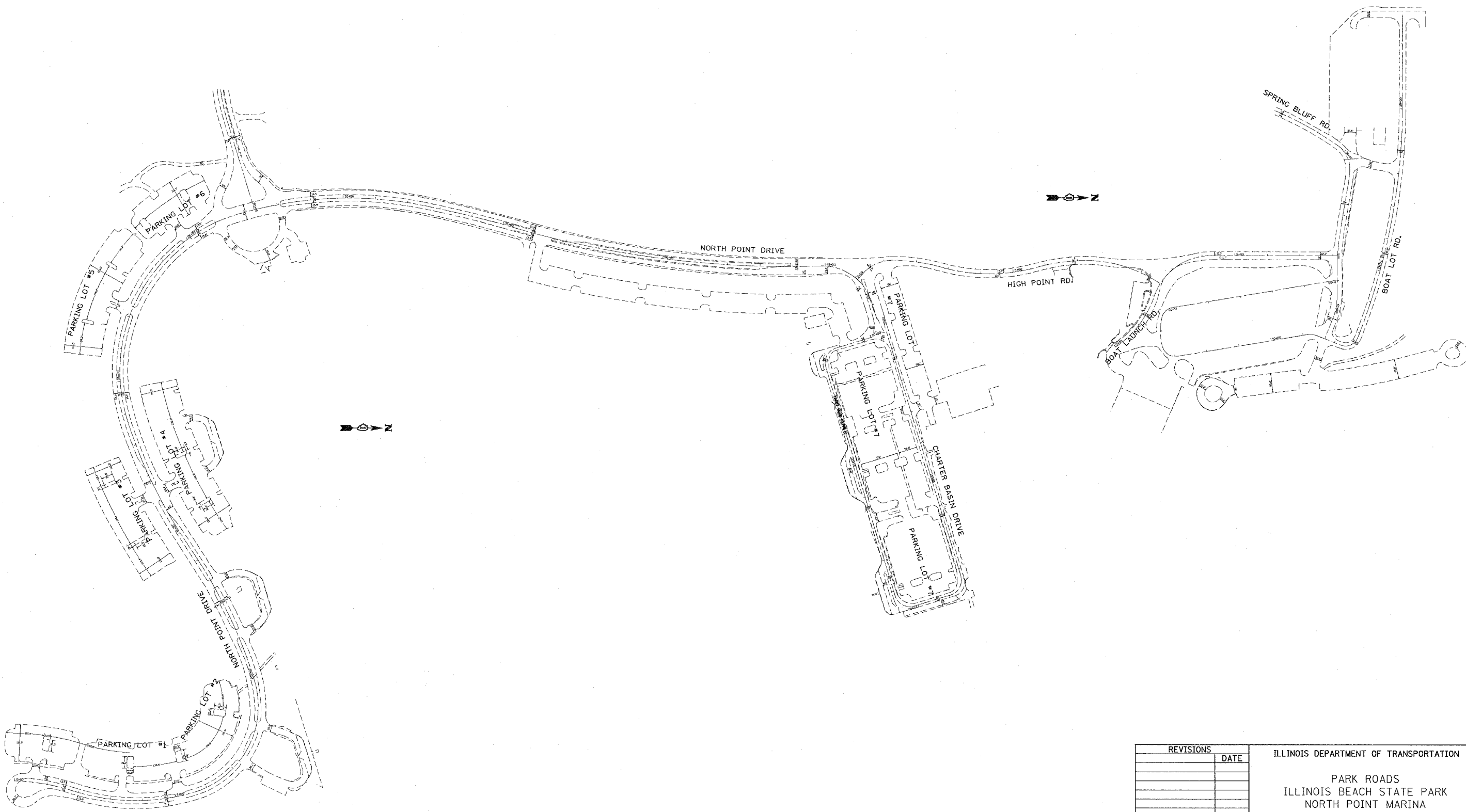
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NAME	DATE	

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CHECKED BY:

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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 2006-027 I	LAKE	31	5	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* PARK ROADS		IDNR File No. 2-03-025 B	D91-401-06	



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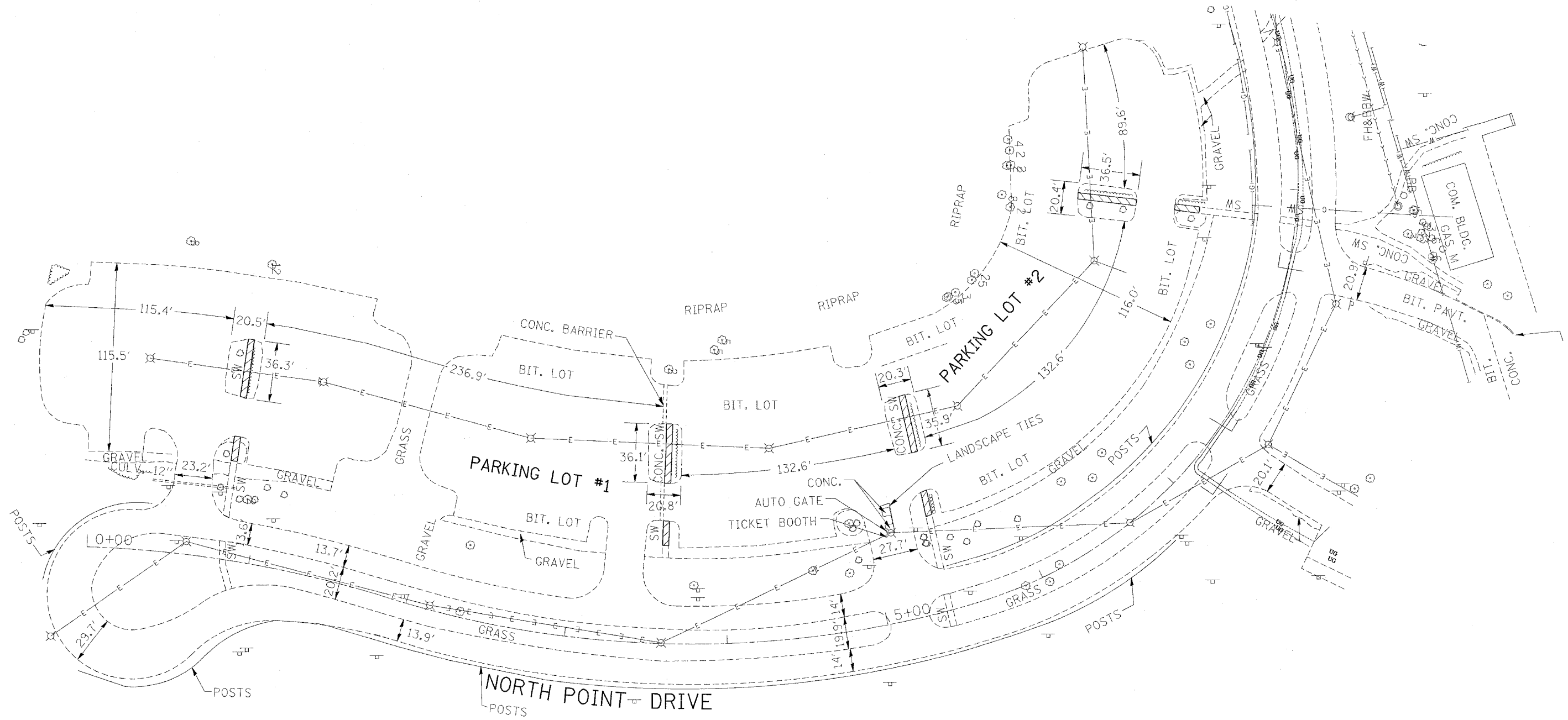
REVISIONS	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 LOCATIONS OF EXISTING PARKING LOTS

SCALE:
 DATE

DRAWN BY: CDT
 CHECKED BY:

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 2006-027 I	LAKE		31	6
FED. ROAD DIST. NO. I ILLINOIS FED. AID PROJECT				
* PARK ROADS IDNR File No. 2-03-025 B D91-401-06				



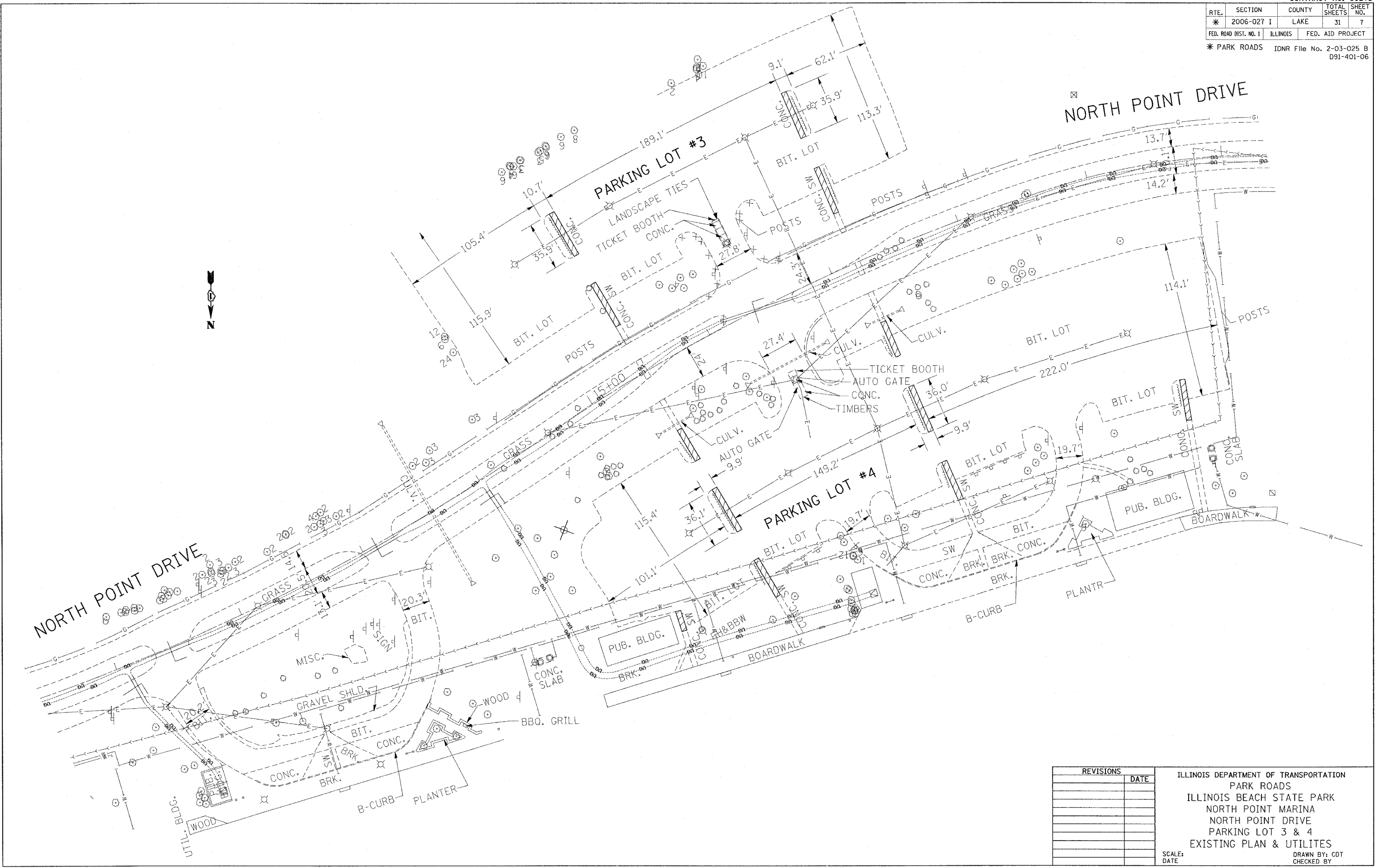
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REVISIONS	
DATE	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 NORTH POINT DRIVE
 PARKING LOT 1 & 2
 EXISTING PLAN & UTILITIES

SCALE: DATE
 DRAWN BY: CDT
 CHECKED BY:

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 2006-027 I	LAKE		31	7
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* PARK ROADS IDNR File No. 2-03-025 B D91-401-06				



NORTH POINT DRIVE

NORTH POINT DRIVE

PARKING LOT #3

PARKING LOT #4

PUB. BLDG.

PUB. BLDG.

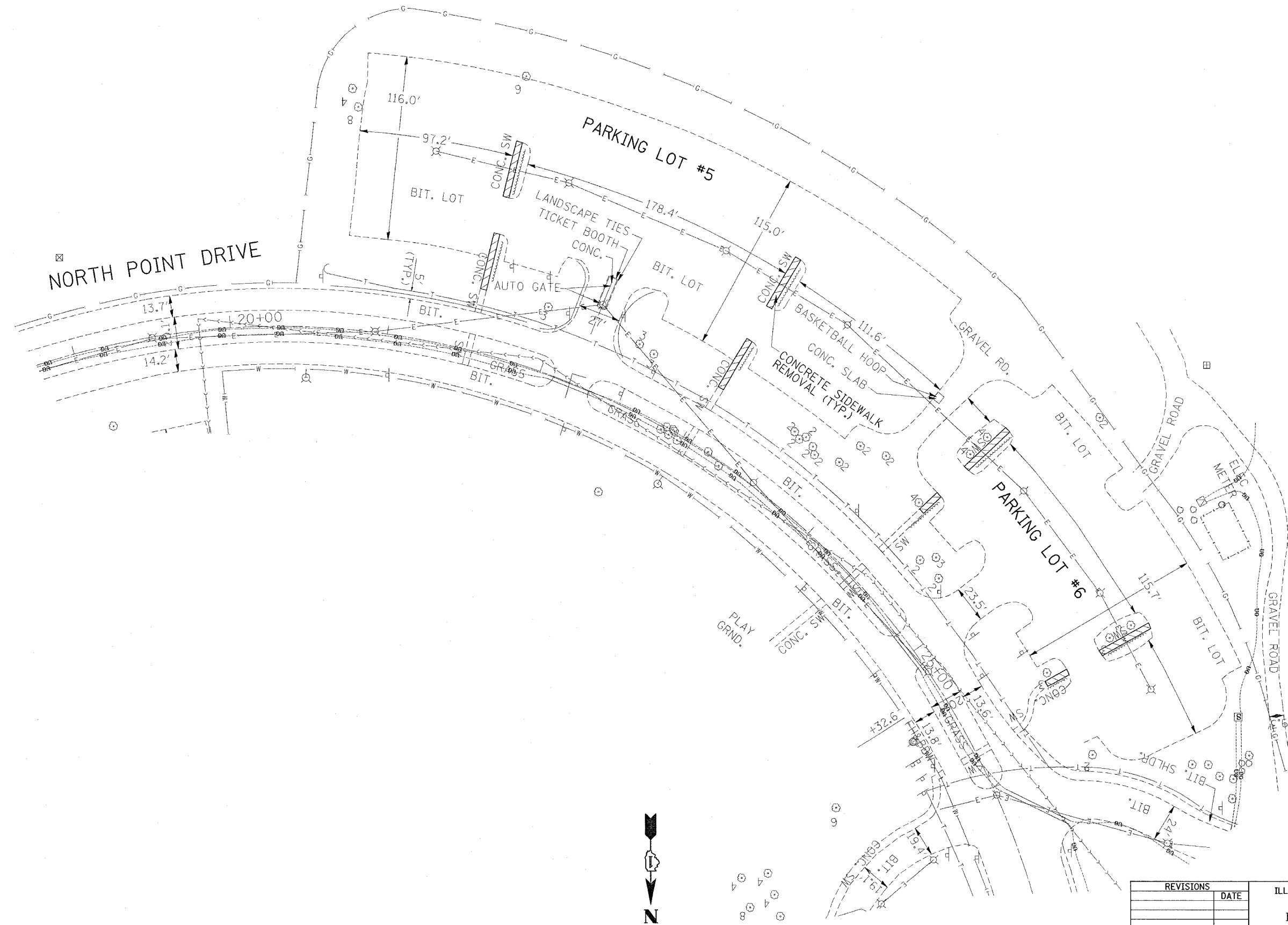
REVISIONS	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 NORTH POINT DRIVE
 PARKING LOT 3 & 4
 EXISTING PLAN & UTILITES

SCALE: DATE DRAWN BY: CDT CHECKED BY:

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*	2006-027 I	LAKE	31	8
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* PARK ROADS IDNR File No. 2-03-025 B D91-401-06				

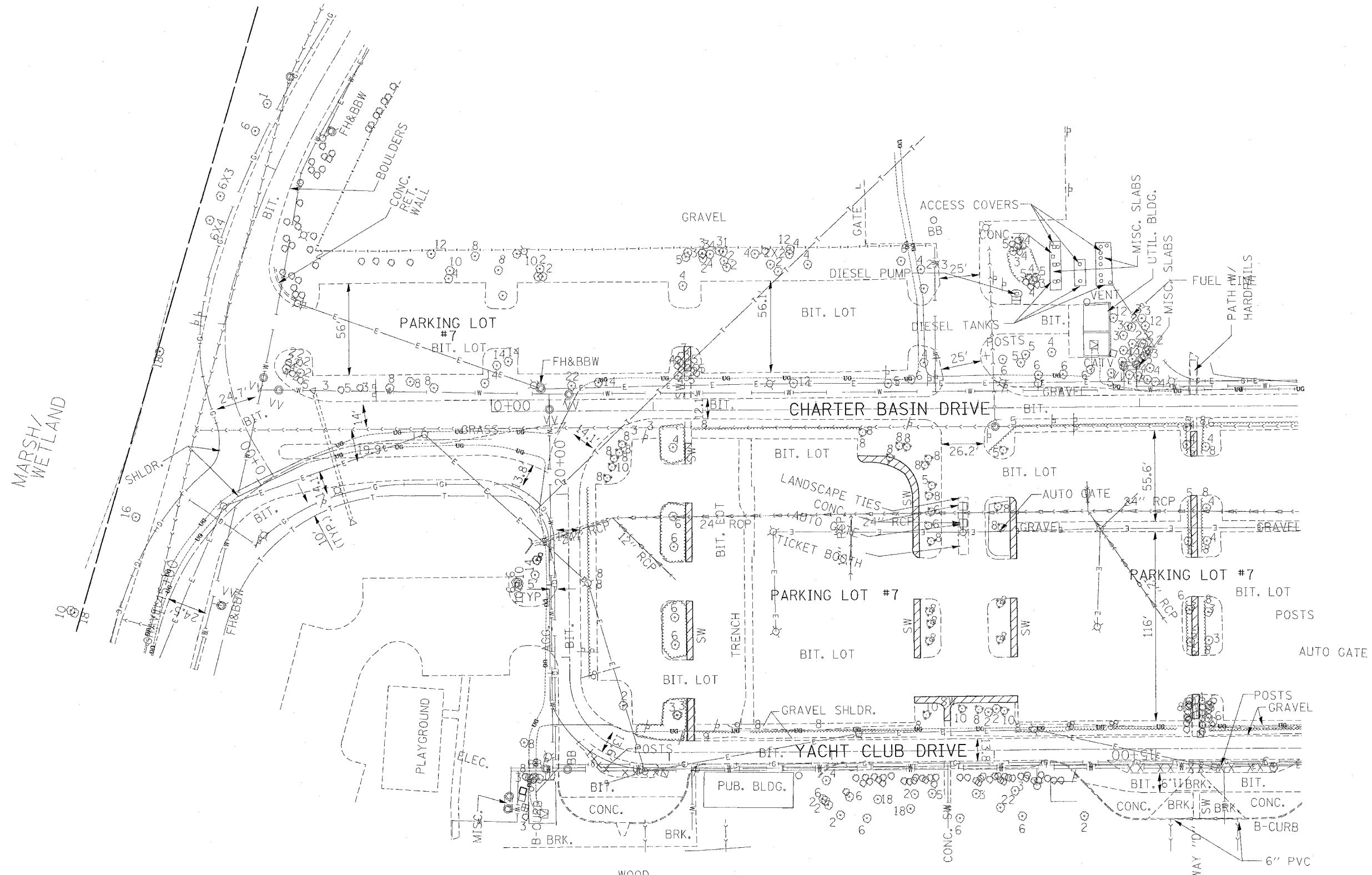


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REVISIONS	
NO.	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 NORTH POINT DRIVE
 PARKING LOT 5 & 6
 EXISTING PLAN & UTILITES
 SCALE: DATE
 DRAWN BY: CDT
 CHECKED BY:

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	9
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* PARK ROADS		IDNR File No. 2-03-025 B D91-401-06		



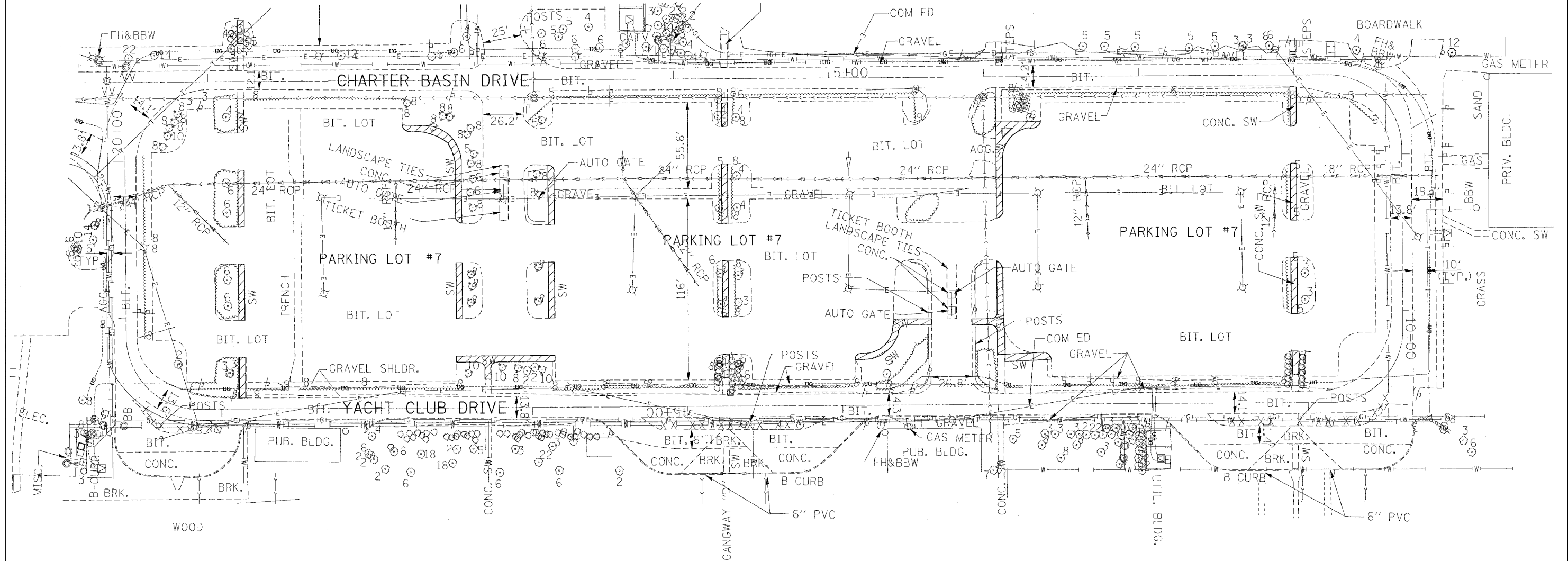
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REVISIONS	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 CHARTER BASIN DRIVE
 PARKING LOT 7 NORTH SIDE
 EXISTING PLAN & UTILITIES

SCALE: DATE
 DRAWN BY: CDT
 CHECKED BY:

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 2006-027 I	LAKE		31	10
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* PARK ROADS IDNR File No. 2-03-025 B D91-401-06				

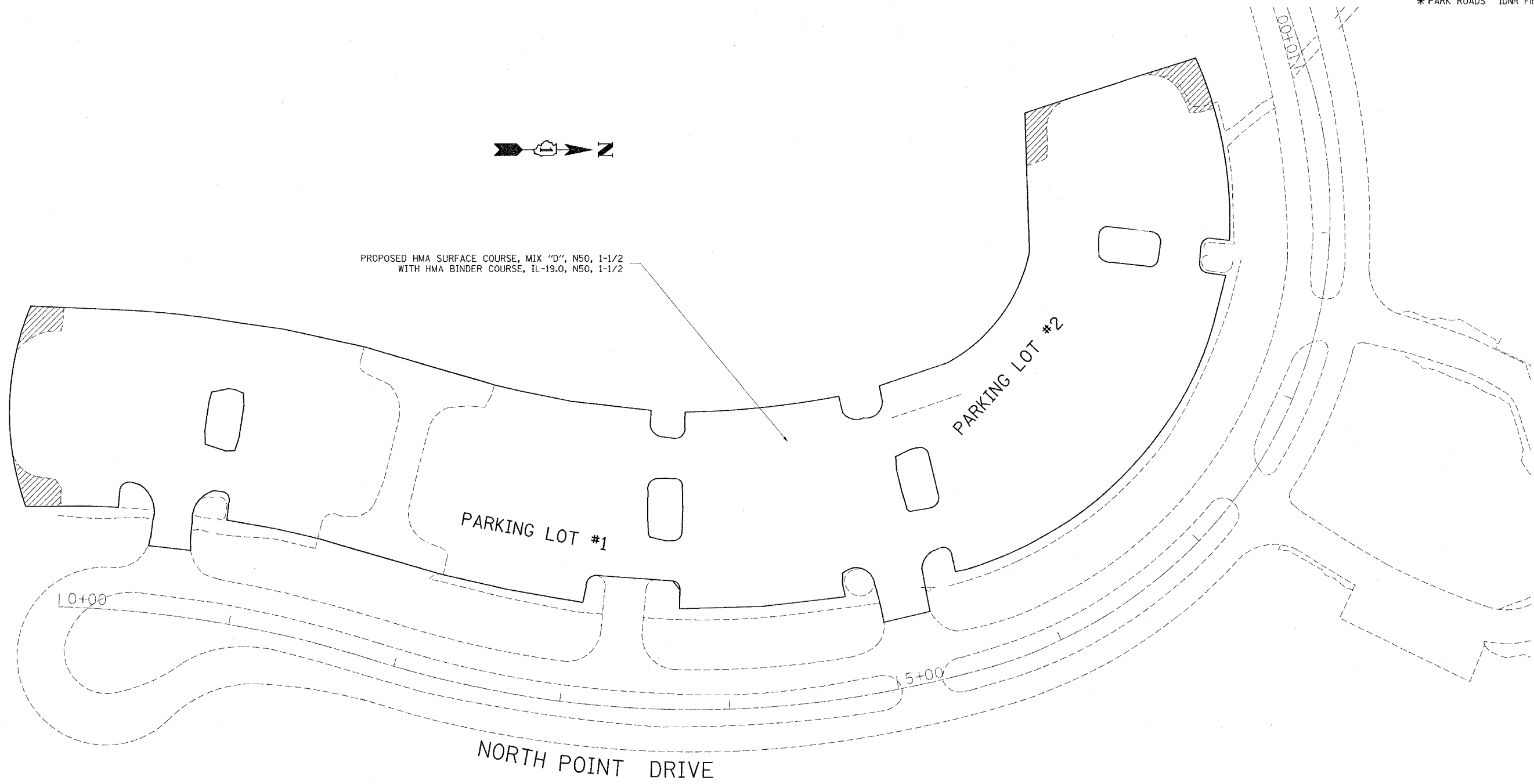


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REVISIONS	
DATE	


ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 YACHT CLUB DRIVE
 PARKING LOT 7 SOUTH SIDE
 EXISTING PLAN & UTILITIES
 SCALE: DATE
 DRAWN BY: CDT
 CHECKED BY:

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	11
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* PARK ROADS		IDNR File No.	2-03-025 B D91-401-06	



PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1-1/2
WITH HMA BINDER COURSE, IL-19.0, N50, 1-1/2

NOTE: RESURFACING LIMIT SHALL BE TO THE RAIDOUS RETURN
AND/OR AS DIRECTIED BY THE ENGINEER

 PROPOSED WIDENING OF CORNERS AS INDICATED
ON TYPICAL SECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PARK ROADS
ILLINOIS BEACH STATE PARK
NORTH POINT MARINA
NPRTH POINT DRIVE
PARKING LOT 1 & 2
PROPOSED PLAN

SCALE:
DATE:

DRAWN BY: CDT
CHECKED BY:

11/3/2006
PLOT DATE
11/3/2006
PLOT SCALE
50.0000
REFERENCE
#REF*

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	12
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* PARK ROADS		IDNR File No.	2-03-025 B D91-401-06	

PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1-1/2
WITH HMA BINDER COURSE, IL-19.0, N50, 1-1/2

NORTH POINT DRIVE

117444

PARKING LOT #3


20+00

15+00

PARKING LOT #4



NOTE: RESURFACING LIMIT SHALL BE TO THE RAIDOUS RETURN
AND/OR AS DIRECTIED BY THE ENGINEER

 PROPOSED WIDENING OF CORNERS AS INDICATED
ON TYPICAL SECTION

PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1-1/2
WITH HMA BINDER COURSE, IL-19.0, N50, 1-1/2

PLOT DATE 11/21/2006
 PLOT NAME 117444
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 REFERENCE #REF#

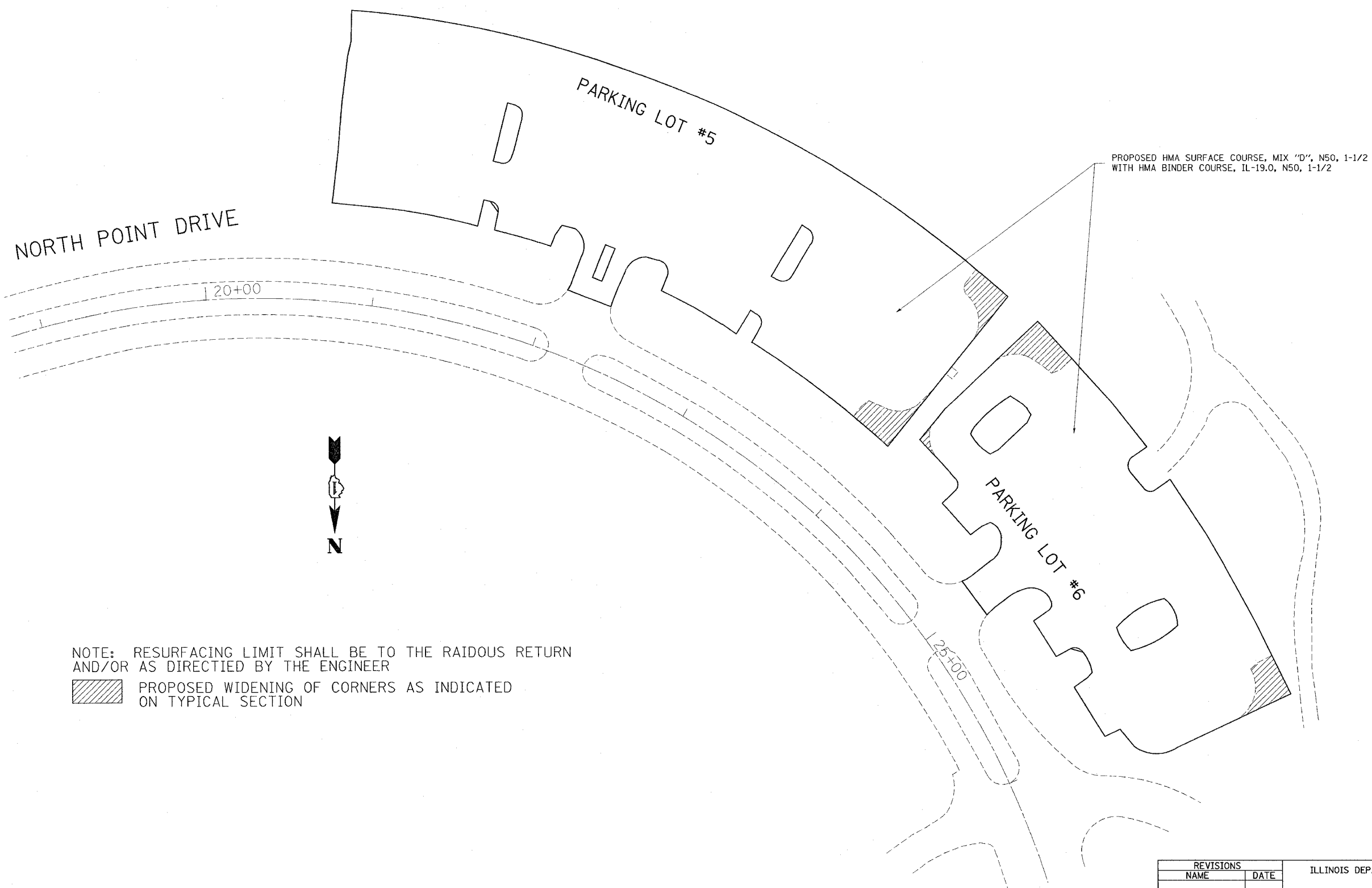
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 NORTH POINT DRIVE
 PARKING LOT 3 & 4
 PROPOSED PLAN


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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 2006-027 I	LAKE		31	13
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* PARK ROADS IDNR File No. 2-03-025 B D91-401-06				



NOTE: RESURFACING LIMIT SHALL BE TO THE RAIDOUS RETURN AND/OR AS DIRECTIED BY THE ENGINEER

 PROPOSED WIDENING OF CORNERS AS INDICATED ON TYPICAL SECTION

PLOT DATE 11/3/2006
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 NORTH POINT DRIVE
 PARKING LOT 5 & 6
 PROPOSED PLAN

SCALE:
 DATE

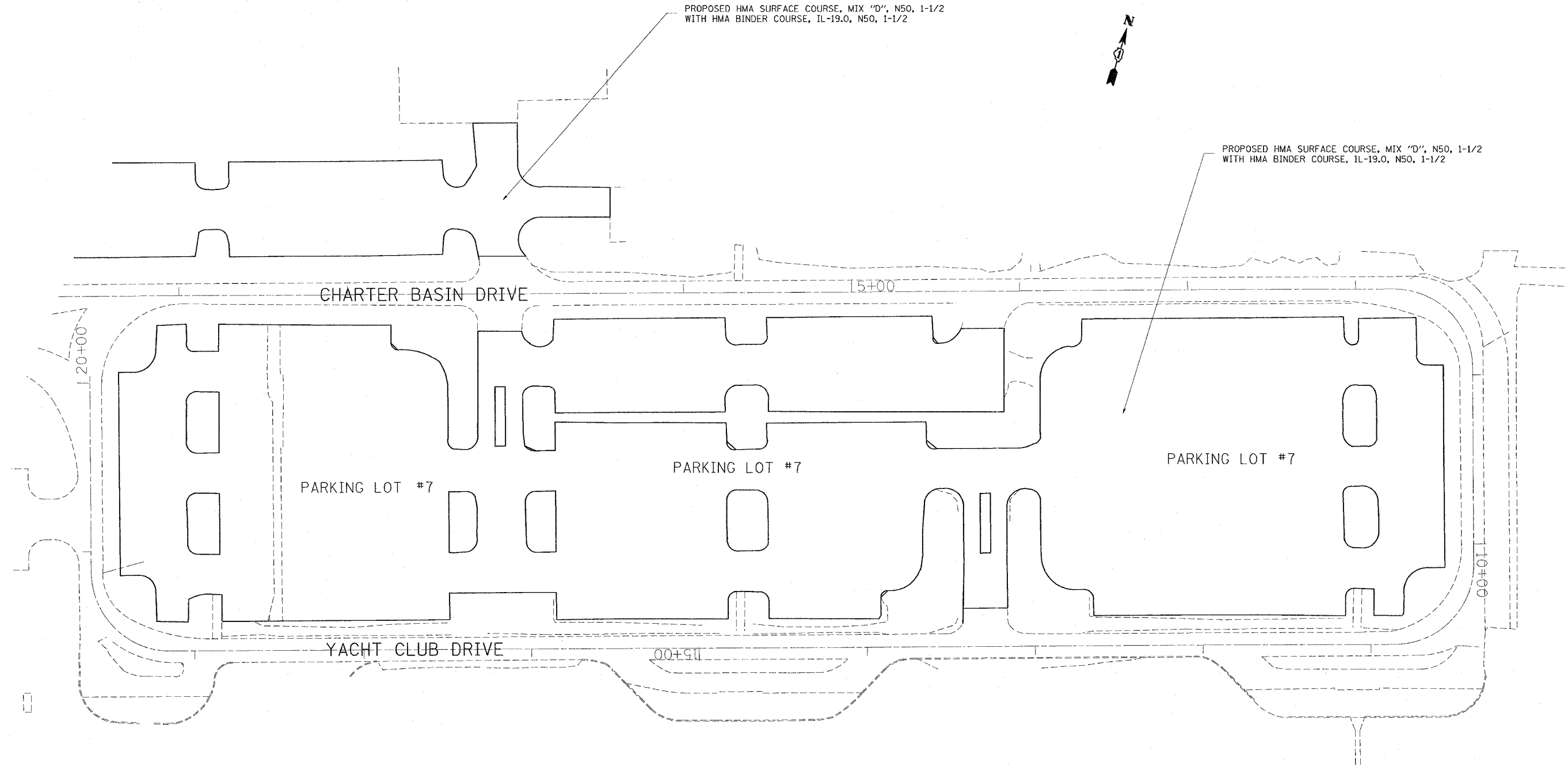
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	14
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* PARK ROADS IDNR File No. 2-03-025 B D91-401-06				



PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1-1/2
WITH HMA BINDER COURSE, IL-19.0, N50, 1-1/2

PROPOSED HMA SURFACE COURSE, MIX "D", N50, 1-1/2
WITH HMA BINDER COURSE, IL-19.0, N50, 1-1/2



NOTE: RESURFACING LIMIT SHALL BE TO THE RAIDOUS RETURN
AND/OR AS DIRECTIED BY THE ENGINEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PARK ROADS
ILLINOIS BEACH STATE PARK
NORTH POINT MARINA
YACHT CLUB DRIVE
PARKING LOT 7 SOUTH SIDE
PROPOSED PLAN

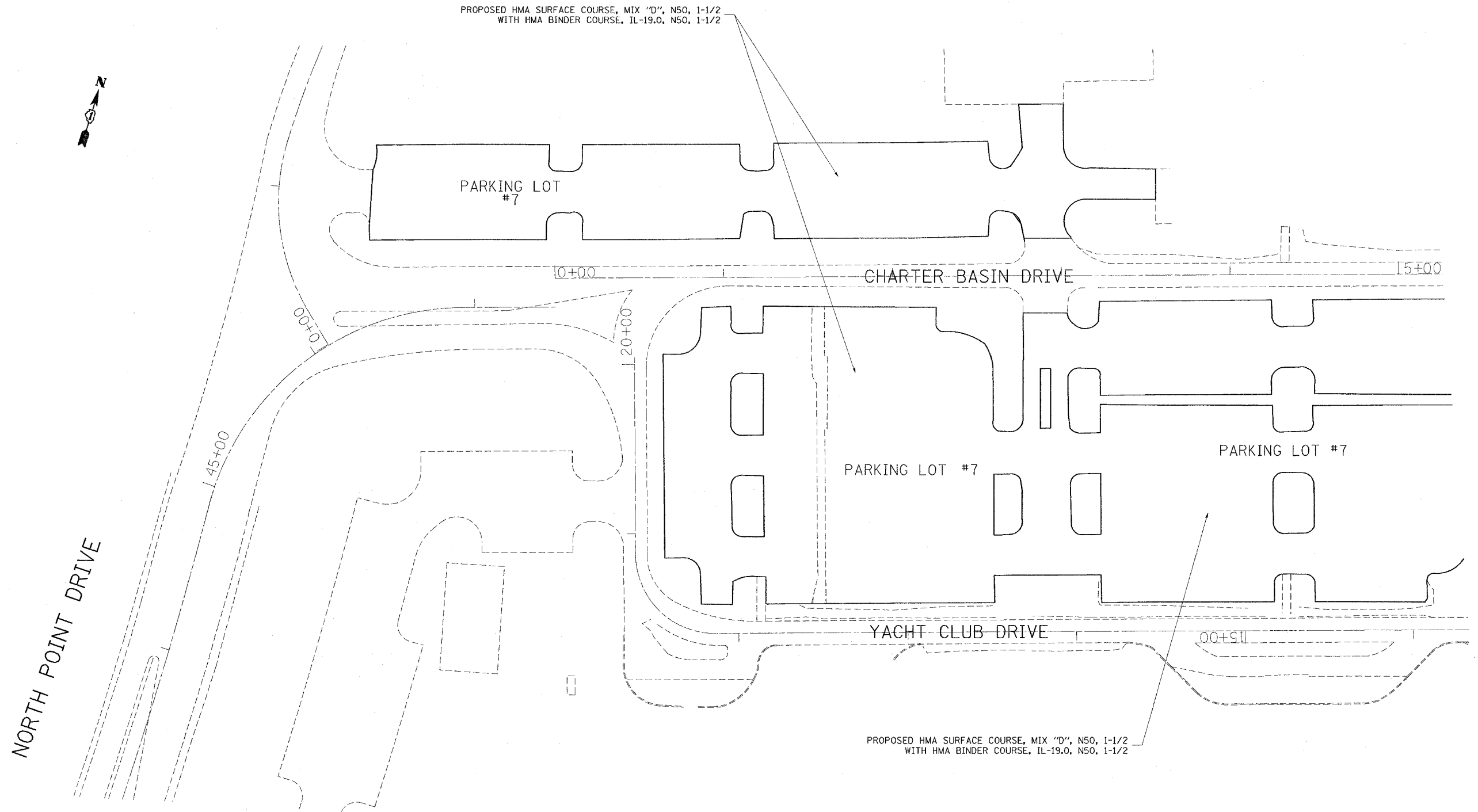
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CHECKED BY:

PLOT DATE 11/3/2006
PLOT SCALE 50.0000 / IN
REFERENCE REF#

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	15
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

* PARK ROADS IDNR File No. 2-03-025 B
D91-401-06



NOTE: RESURFACING LIMIT SHALL BE TO THE RAIDOUS RETURN AND/OR AS DIRECTED BY THE ENGINEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PARK ROADS
LLINOIS BEACH STATE PARK
NORTH POINT MARINA
YACHT CLUB DRIVE
PARKING LOT 7 NORTH SIDE
PROPOSED PLAN

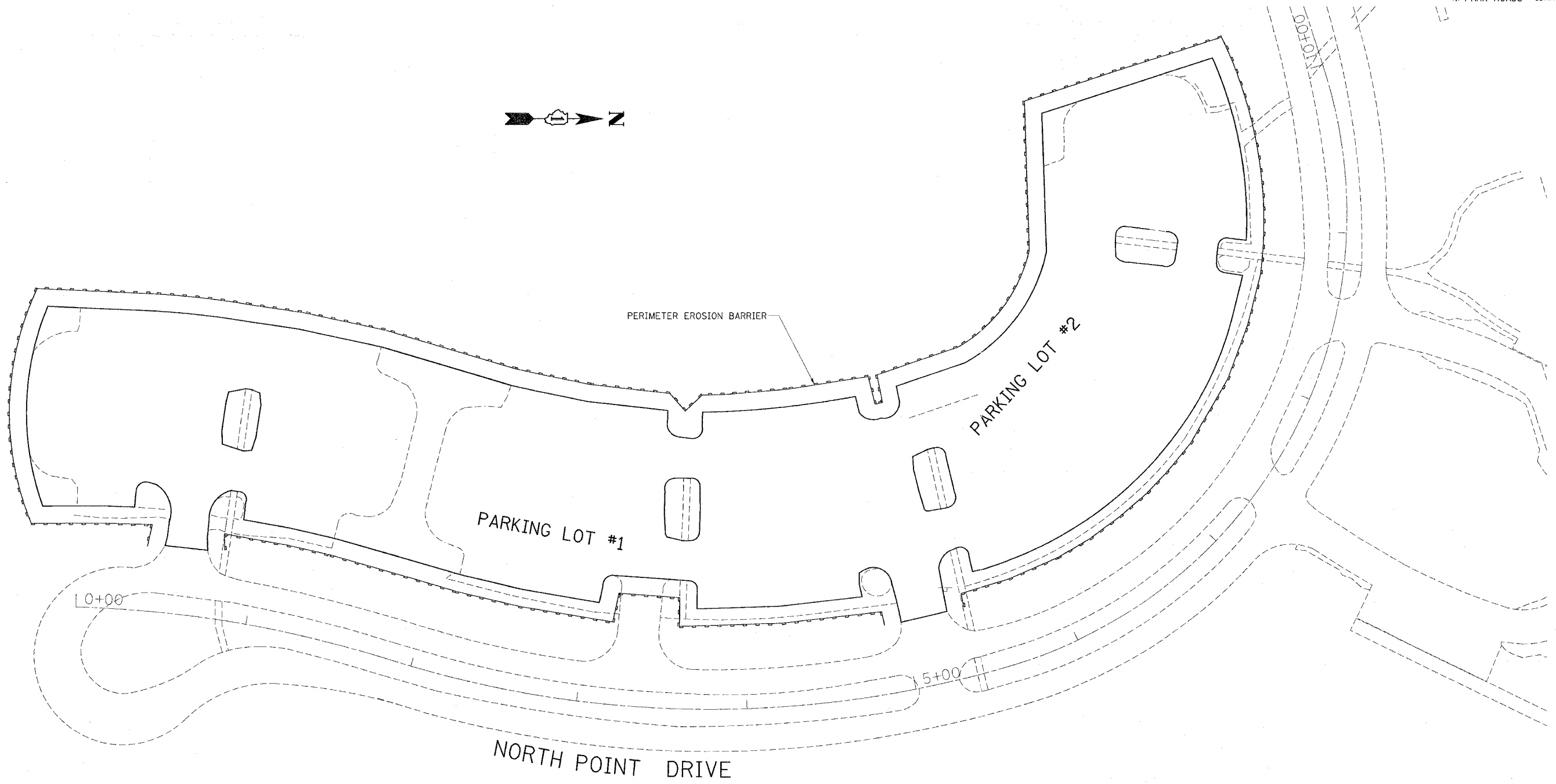
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DATE

DRAWN BY: CDT
CHECKED BY

DATE 11/2/2006
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PLOT SCALE 50,000% / IN.
REFERENCE #REF#

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	16
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

* PARK ROADS IDNR File No. 2-03-025 B
D91-401-06



NOTE: PERIMETER EROSION BARRIER SHALL BE PLACED WHERE AS INDICATED AND/OR DIRECTED BY THE ENGINEER

REVISIONS	
NAME	DATE

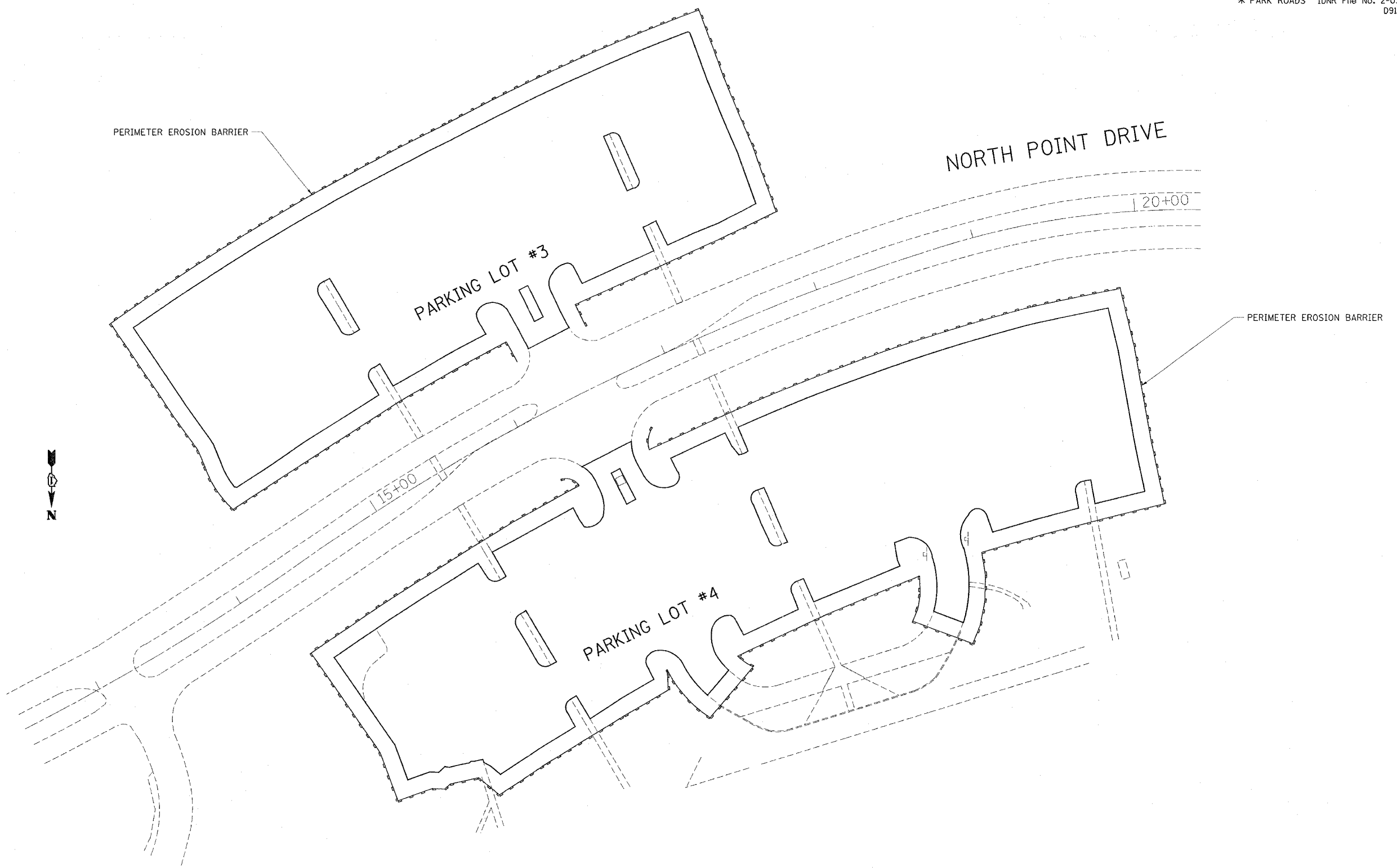
ILLINOIS DEPARTMENT OF TRANSPORTATION
PARK ROADS
ILLINOIS BEACH STATE PARK
NORTH POINT MARINA
EROSION CONTROL PLAN

SCALE:
DATE

DRAWN BY: CDT
CHECKED BY:

PLOT DATE 11/3/2006
FILE NAME c:\projects\p134482\design\32
PLOT SCALE 50.0000' / IN.
REFERENCE #REF#

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	17
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* PARK ROADS IDNR File No. 2-03-025 B D91-401-06				



NOTE: PERIMETER EROSION BARRIER SHALL BE PLACED WHERE AS INDICATED AND/OR DIRECTED BY THE ENGINEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

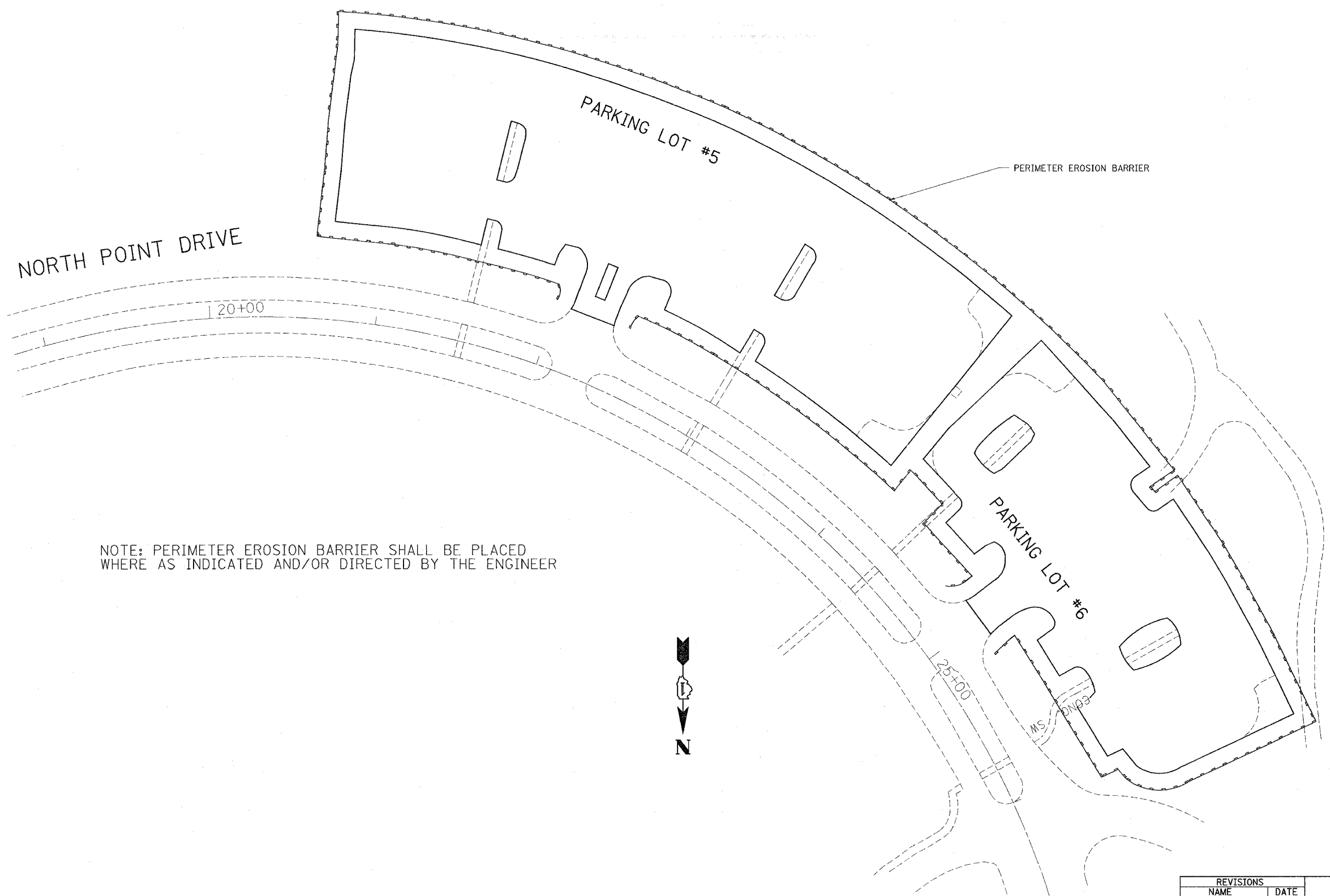
PARK ROADS
ILLINOIS BEACH STATE PARK
NORTH POINT MARINA
EROSION CONTROL PLAN

SCALE:
DATE

DRAWN BY: CDT
CHECKED BY:

11/3/2006
PLOT DATE
11/3/2006
PLOT SCALE
50,000/1" = 1000'
REFERENCE SHEET

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	18
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* PARK ROADS		IDNR File No. 2-03-025 B	D91-401-06	



NOTE: PERIMETER EROSION BARRIER SHALL BE PLACED WHERE AS INDICATED AND/OR DIRECTED BY THE ENGINEER



PLOT DATE 11/27/2006
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 REFERENCE #REF#

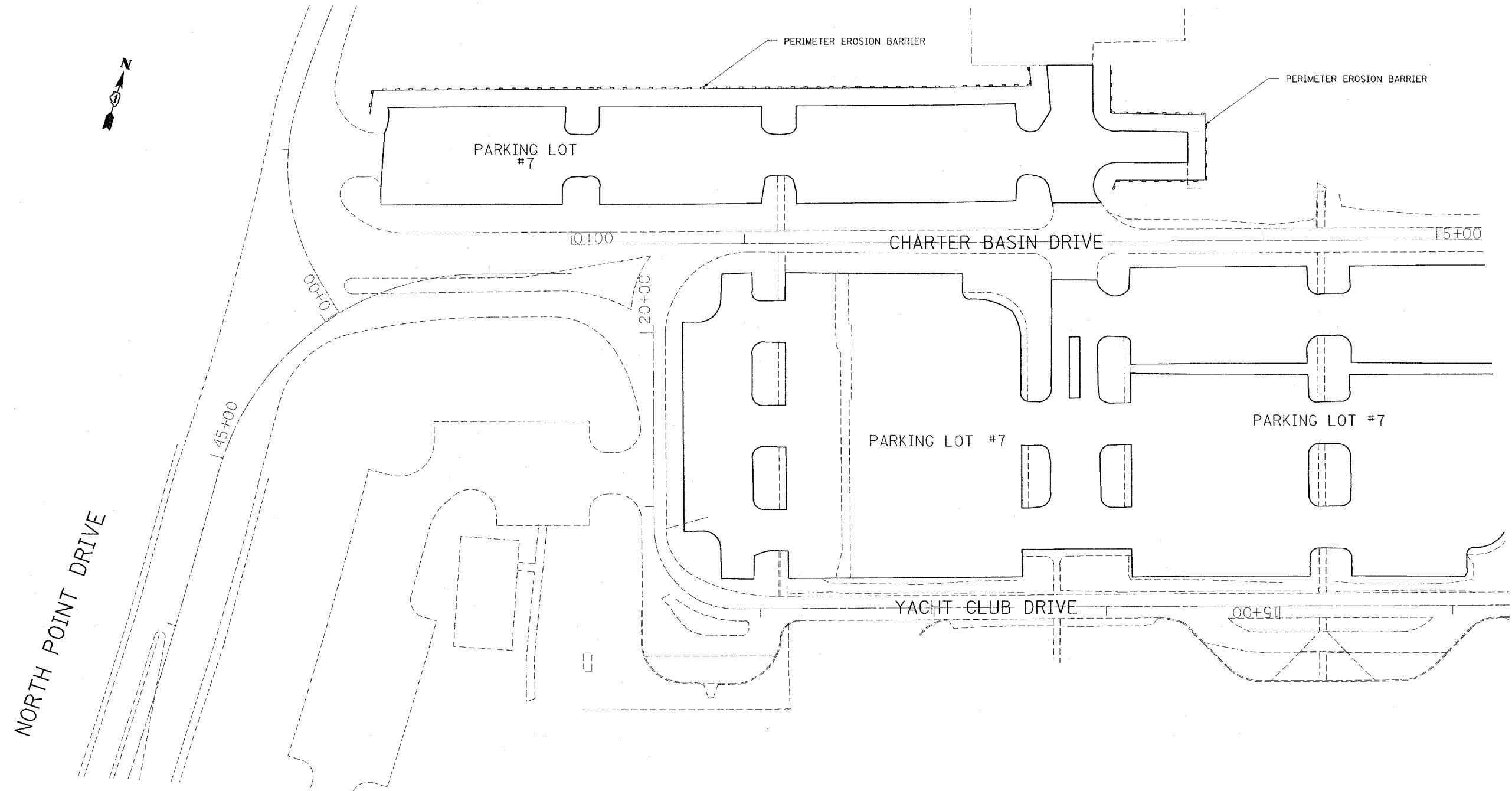
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 EROSION CONTROL PLAN

SCALE:
 DATE
 DRAWN BY: CDT
 CHECKED BY:

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	19
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

* PARK ROADS IDNR File No. 2-03-025 B
D91-401-06



NOTE: PERIMETER EROSION BARRIER SHALL BE PLACED WHERE INDICATED AND/OR AS DIRECTED BY THE ENGINEER
PERIMETER BARRIER IS NOT REQUIRED FOR SOUTH SIDE PARKING LOT 7

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PARK ROADS
ILLINOIS BEACH STATE PARK
NORTH POINT MARINA
EROSION CONTROL PLAN

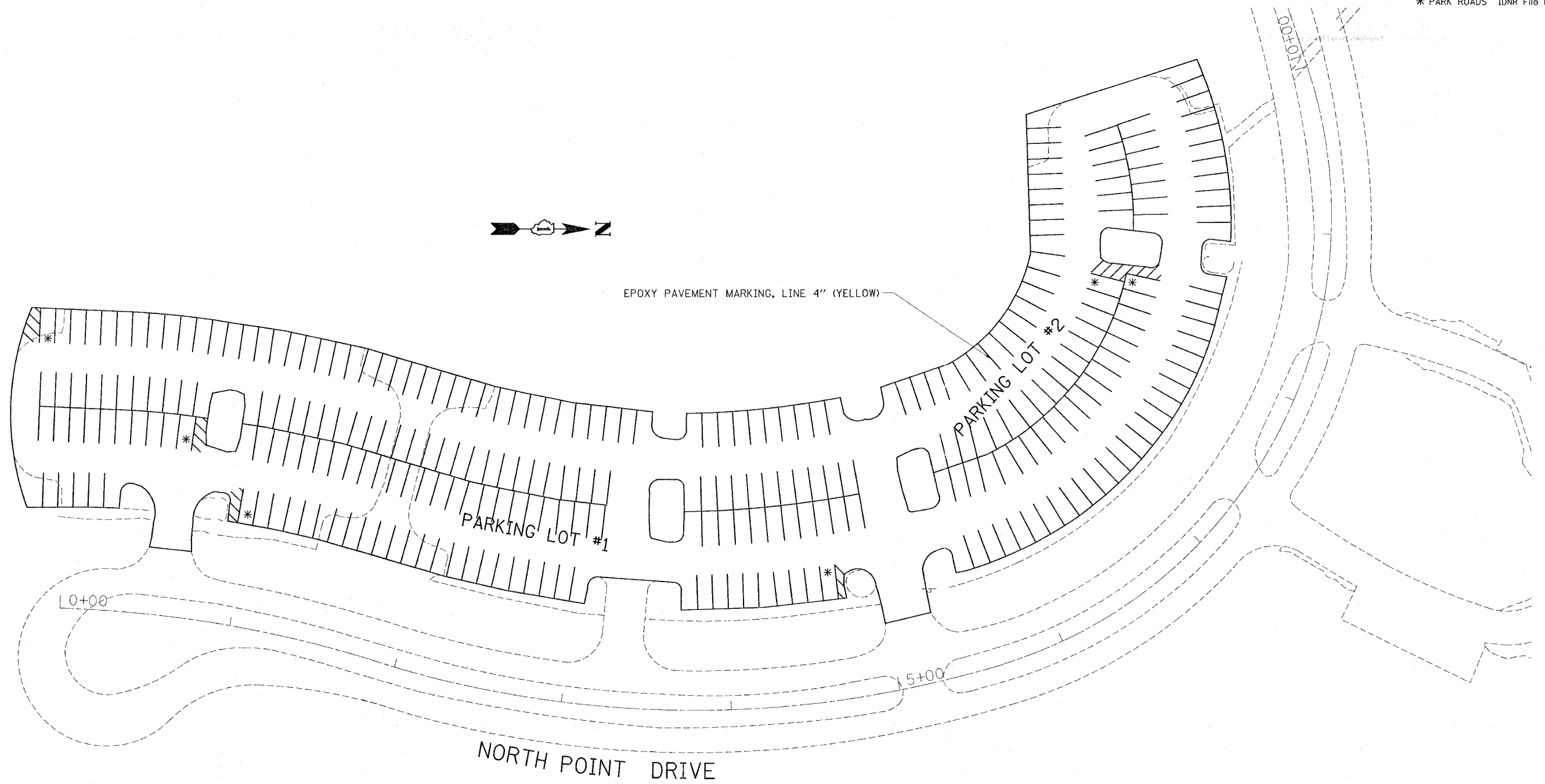
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DATE

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CHECKED BY:

11/3/2006
c:\projects\p134482\design\m32
50.0000' / IN.
#REF#

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 1	LAKE	31	20
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

* PARK ROADS IDNR File No. 2-03-025 B
D91-401-06



NOTE: ALL LINE SHALL BE 20' LONG WITH 9' SPACING FROM ADJACENT MARKING LINES

SEE SHEET 26 FOR DETAILS

* HANDICAP PARKING. SEE SHEET 26 FOR DETAILS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PARK ROADS
ILLINOIS BEACH STATE PARK
NORTH POINT MARINA
NPRTH POINT DRIVE
PARKING LOT 1 & 2
PAVEMENT MARKING PLAN

SCALE: DATE
DRAWN BY: CDT
CHECKED BY:

PLOT DATE 11/3/2006
FILE NAME c:\pro\pca\34482\design\m32
PLOT SCALE 50.0000' / IN.
REFERENCE #REF#

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	21
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* PARK ROADS IDNR File No. 2-03-025 B D91-401-06				

EPOXY PAVEMENT MARKING, LINE 4" (YELLOW)

NORTH POINT DRIVE

PARKING LOT #3

20+00

15+00

PARKING LOT #4

EPOXY PAVEMENT MARKING, LINE 4" (YELLOW)



NOTE: ALL LINE SHALL BE 20' LONG WITH 9' SPACING FROM ADJACENT MARKING LINES

SEE SHEET 26 FOR DETAILS

* HANDICAP PARKING. SEE SHEET 26 FOR DETAILS

REVISIONS	
NAME	DATE

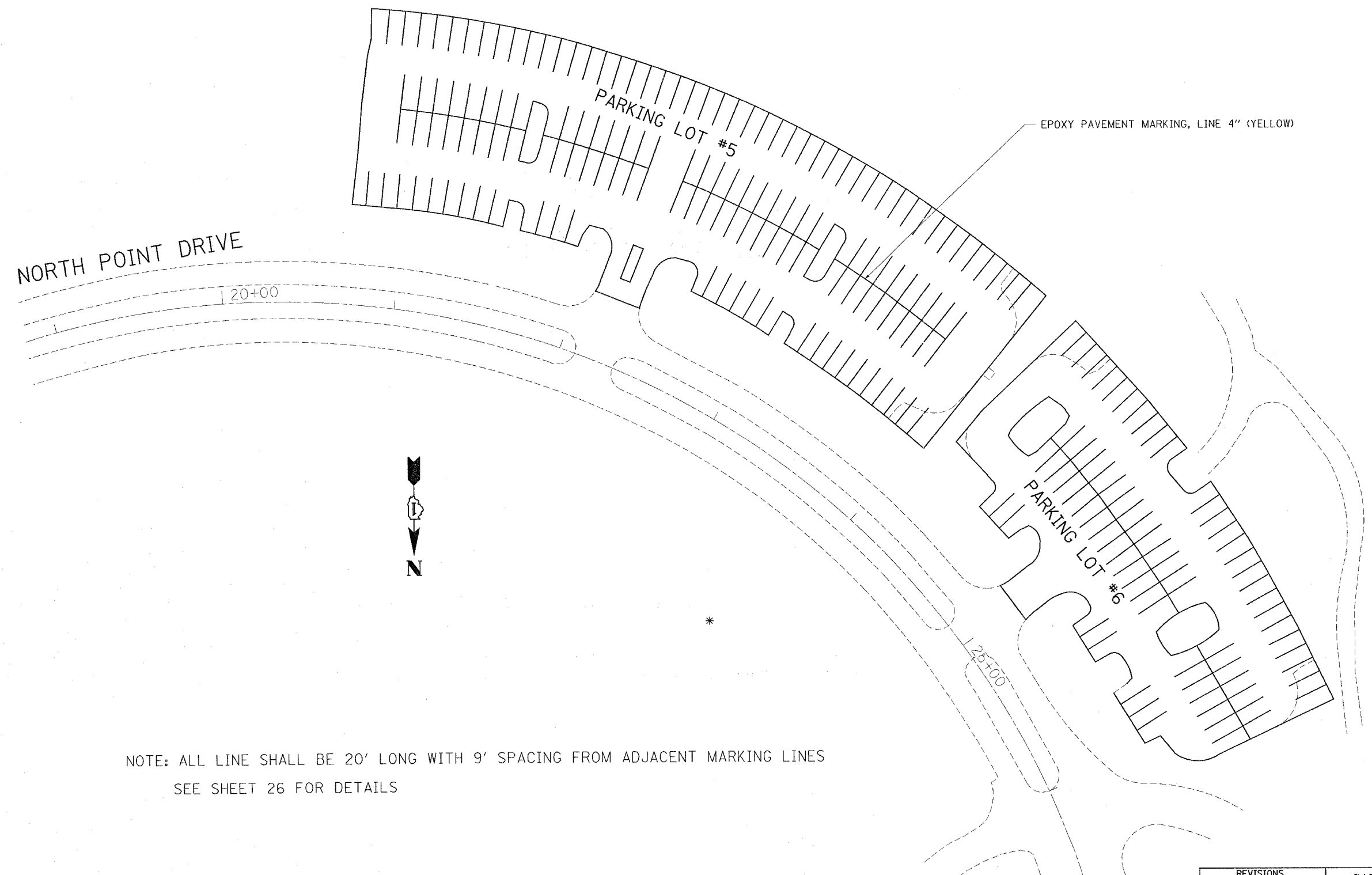
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 NORTH POINT DRIVE
 PARKING LOT 3 & 4
 PAVEMENT MARKING

SCALE:
DATE

DRAWN BY: CDT
CHECKED BY:

PLOT DATE 11/21/2006
 FILE NAME c:\pwork\parks\1134482\design\m32
 PLOT SCALE 5/8"=20' / IN.
 REFERENCE #REF#

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	22
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* PARK ROADS		IDNR File No. 2-03-025 B	D91-401-06	



NOTE: ALL LINE SHALL BE 20' LONG WITH 9' SPACING FROM ADJACENT MARKING LINES
SEE SHEET 26 FOR DETAILS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PARK ROADS
 ILLINOIS BEACH STATE PARK
 NORTH POINT MARINA
 NORTH POINT DRIVE
 PARKING LOT 5 & 6
 PAVEMENT MARKING PLAN

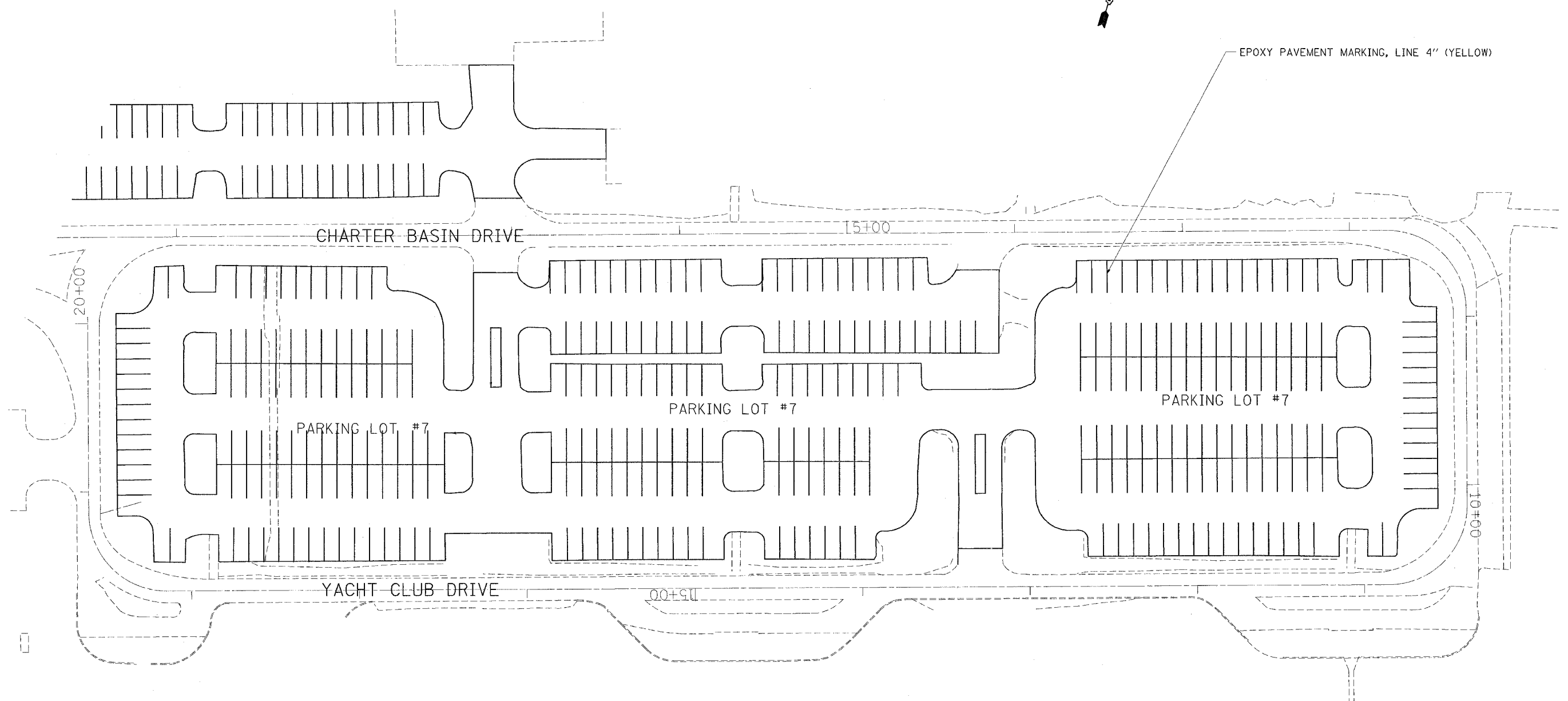
SCALE: DATE
 DRAWN BY: CDT
 CHECKED BY:

PLOT DATE 11/13/2006
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 REFERENCE #REF#

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	23
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* PARK ROADS		IDNR File No. 2-03-025 B	D91-401-06	



EPOXY PAVEMENT MARKING, LINE 4" (YELLOW)

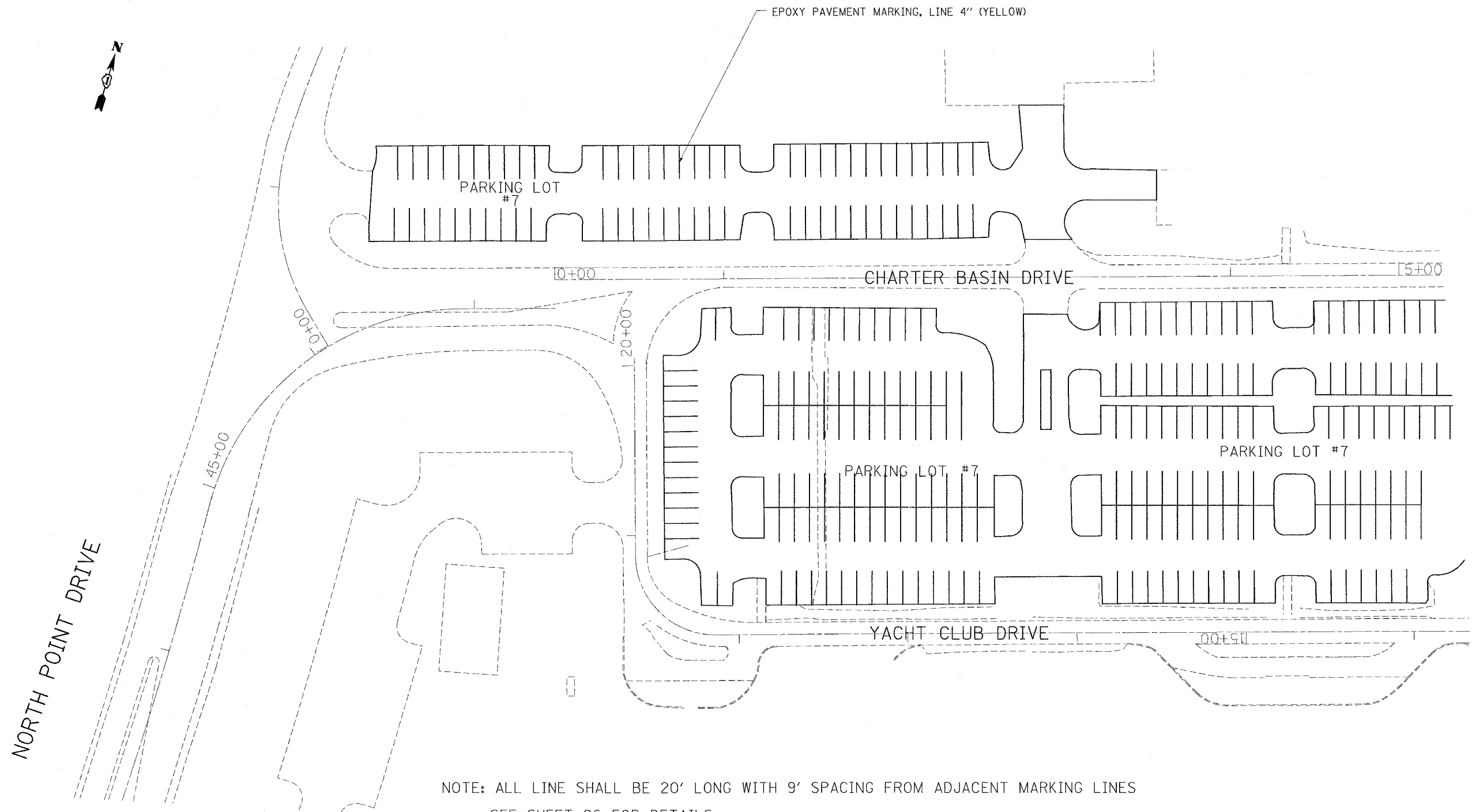


NOTE: ALL LINE SHALL BE 20' LONG WITH 9' SPACING FROM ADJACENT MARKING LINES
SEE SHEET 26 FOR DETAILS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION PARK ROADS ILLINOIS BEACH STATE PARK NORTH POINT MARINA YACHT CLUB DRIVE PARKING LOT 7 SOUTH SIDE PAVEMENT MARKING PLAN
NAME	DATE	
		SCALE: DATE
DRAWN BY: CDT		CHECKED BY:

PLOT DATE 11/21/2006
FILE NAME c:\projects\60b73\134402\design\m32
PLOT SCALE 5/8" = 1' IN.
REFERENCE #REF#

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 1	LAKE	31	24
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* PARK ROADS		IDNR File No. 2-03-025 B D91-401-06		



NOTE: ALL LINE SHALL BE 20' LONG WITH 9' SPACING FROM ADJACENT MARKING LINES
SEE SHEET 26 FOR DETAILS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PARK ROADS
LLINOIS BEACH STATE PARK
NORTH POINT MARINA
CHARTER BASIN DRIVE
PARKING LOT 7 NORTH SIDE
PAVEMENT MARKING PLAN

SCALE: DATE DRAWN BY: CDT CHECKED BY:

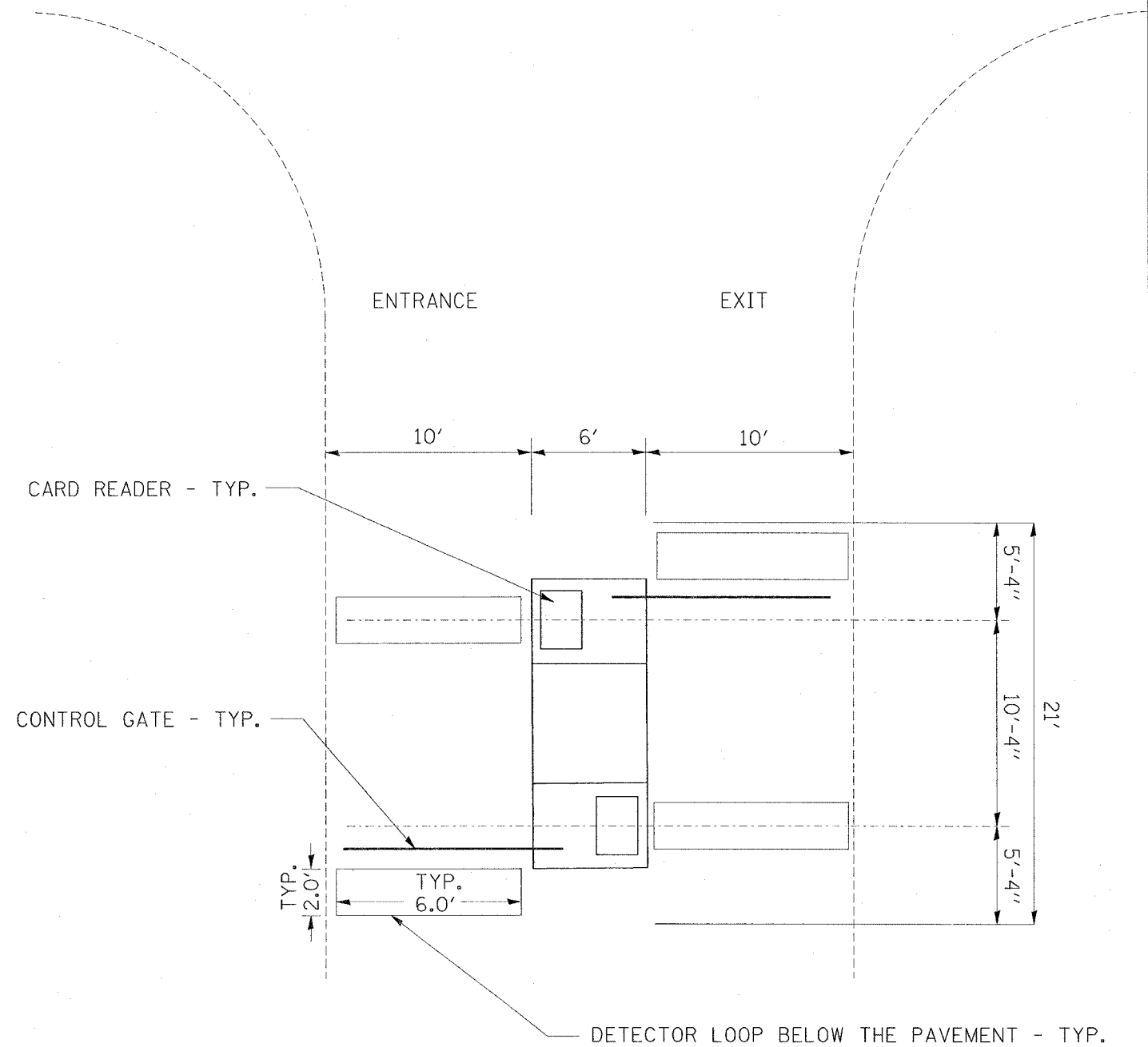
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REFERENCE REF#

•REF-
•REF-
•REF-

CONTRACT NO. 60B73

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	25
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

* PARK ROADS IDNR File No. 2-03-025 B
D91-401-06



REVISIONS	
NAME	DATE

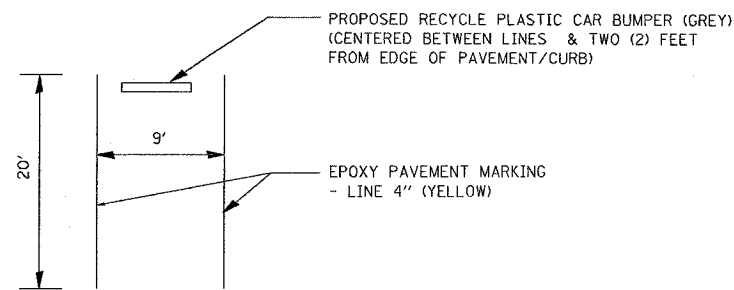
ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS BEACH STATE PARK
NORTH POINT MARINA
DETECTOR LOOP DETAIL
FOR PARKING LOTS

SCALE: VERT. _____
HORIZ. _____
DATE 11/3/2006

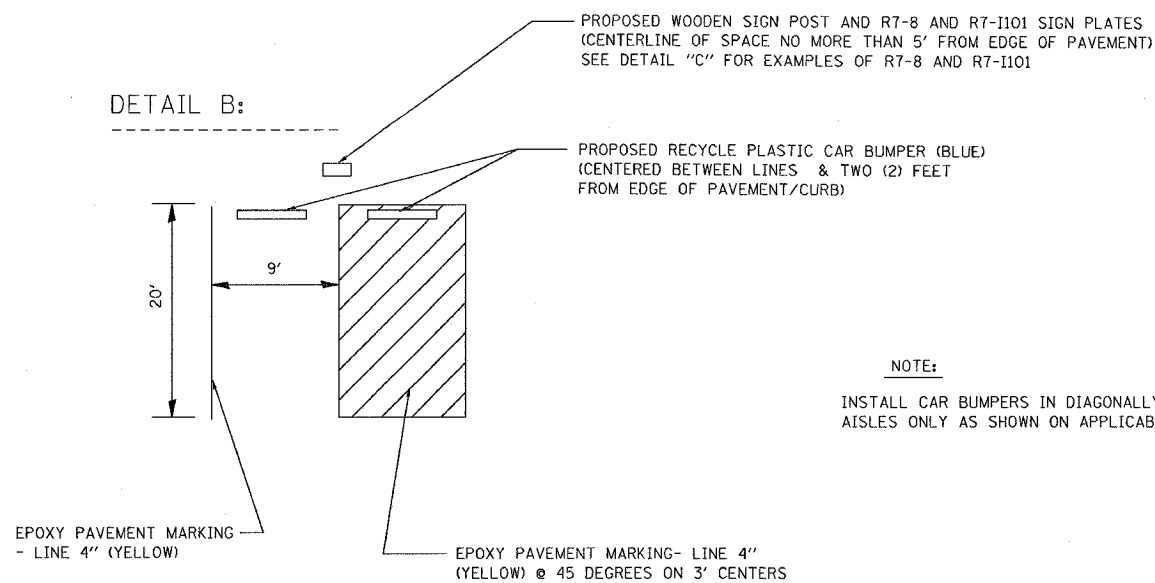
DRAWN BY _____
CHECKED BY _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2006-027 I	LAKE	31	26
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
* PARK ROADS I.D.N.R. FILE # 2-03-025 B				

DETAIL A:



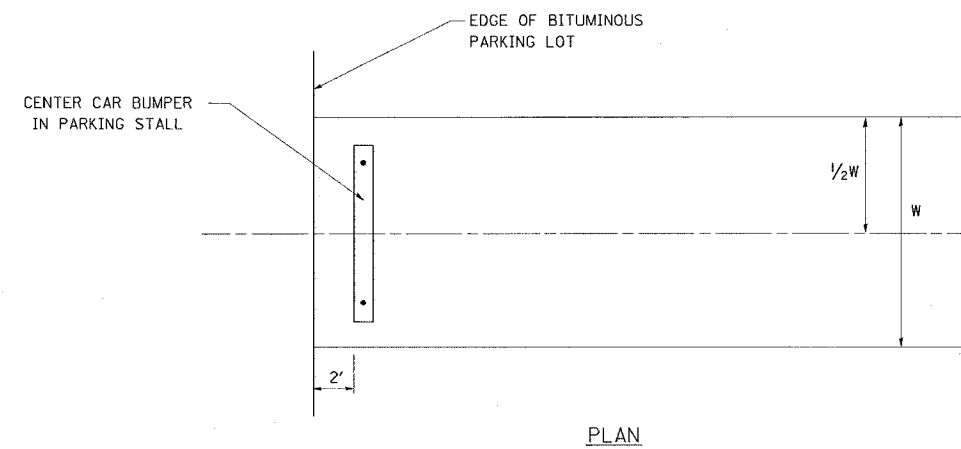
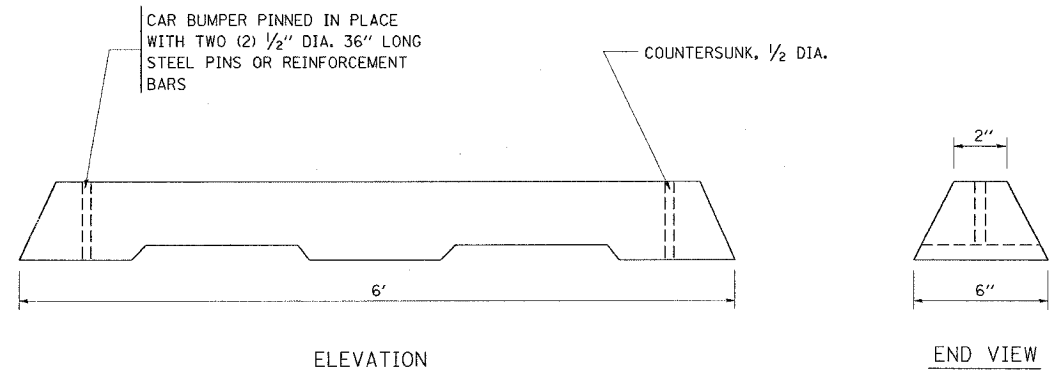
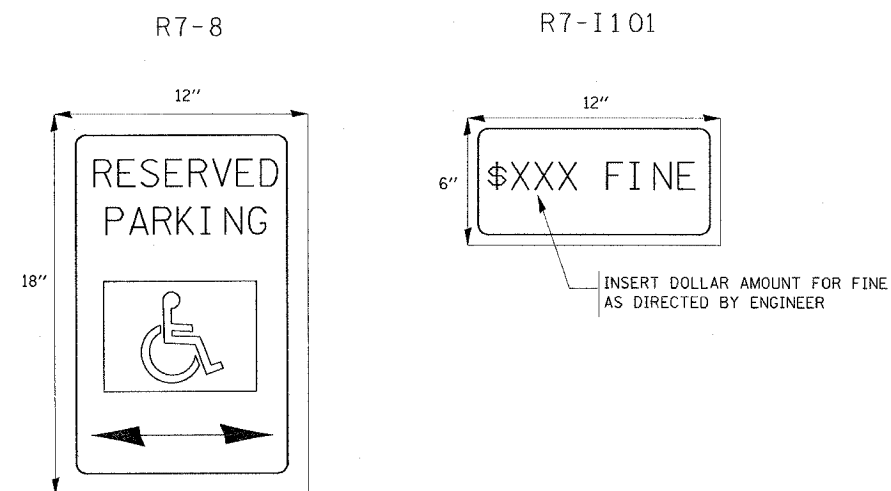
DETAIL B:



NOTE:

INSTALL CAR BUMPERS IN DIAGONALLY-STRIPED ACCESS AISLES ONLY AS SHOWN ON APPLICABLE PLAN SHEETS

DETAIL C:



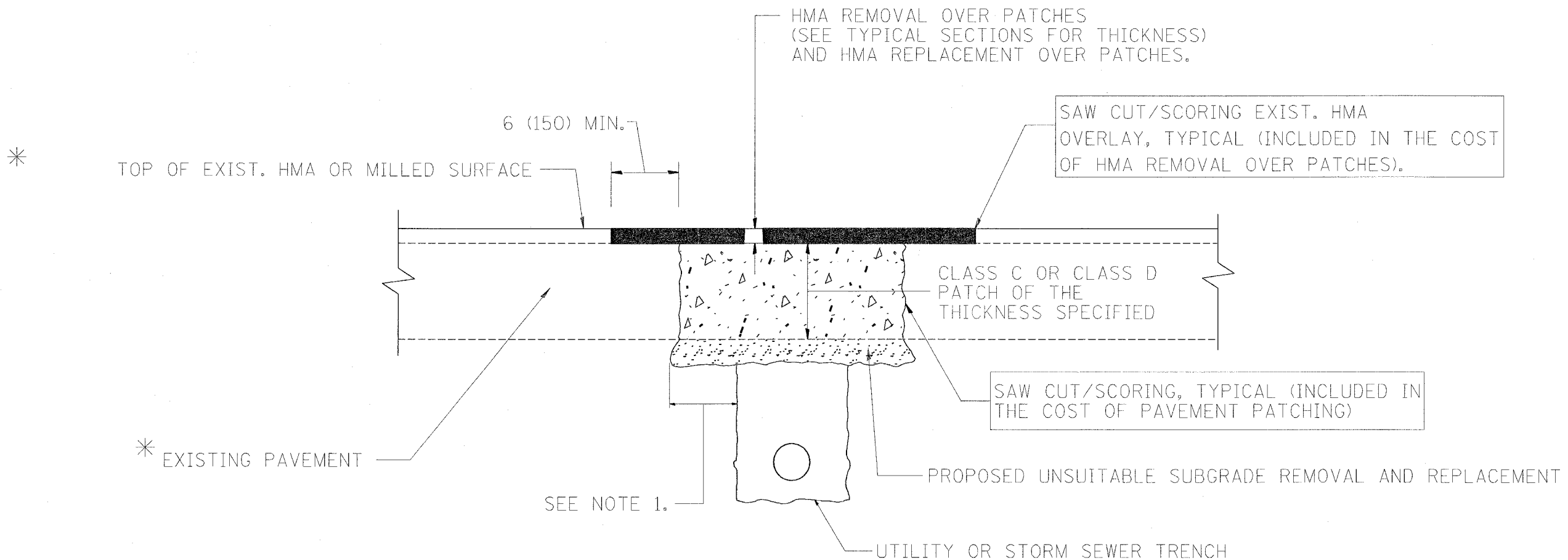
PLASTIC BUMPER BLOCKS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS BEACH STATE PARK
PARKING LOT PAVEMENT
MARKING AND
PLASTIC CAR BUMPER
DETAIL

SCALE: VERT. DRAWN BY DN
 HORIZ. CHECKED BY
DATE 11/3/2006

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	10/11/06

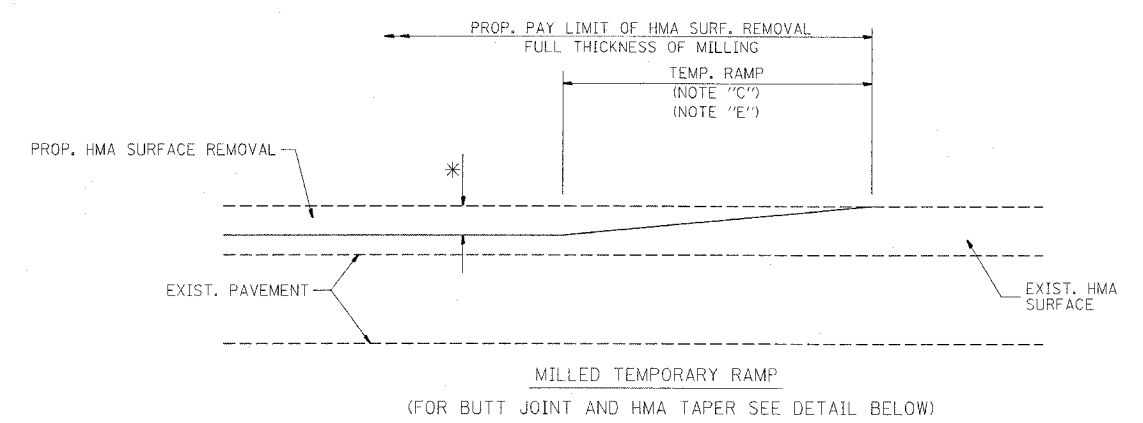
ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

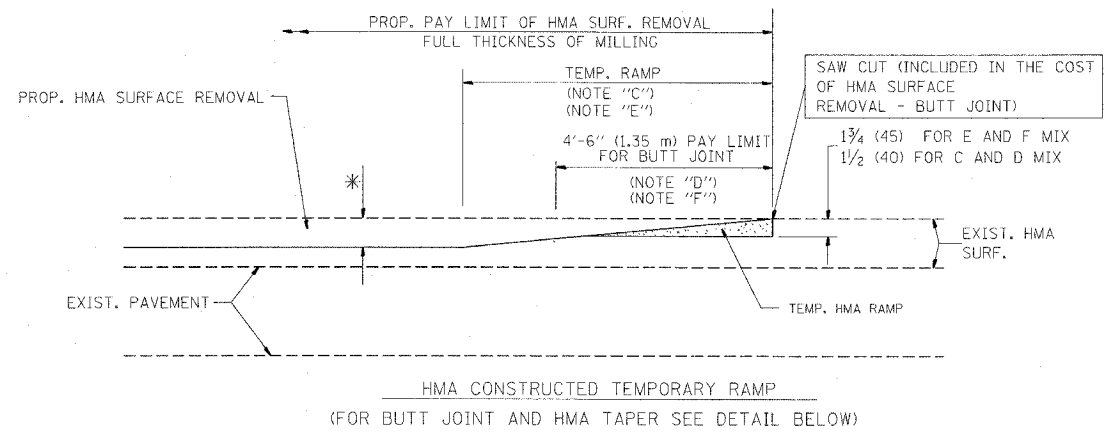
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DRAWN BY
CHECKED BY
BD400-04 (BD-22)
REVISION DATE: 10/11/06

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

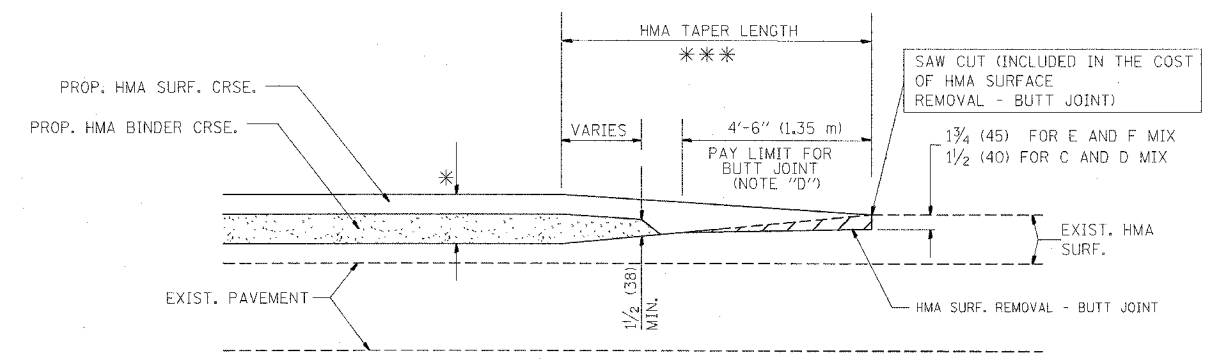


OPTION 1

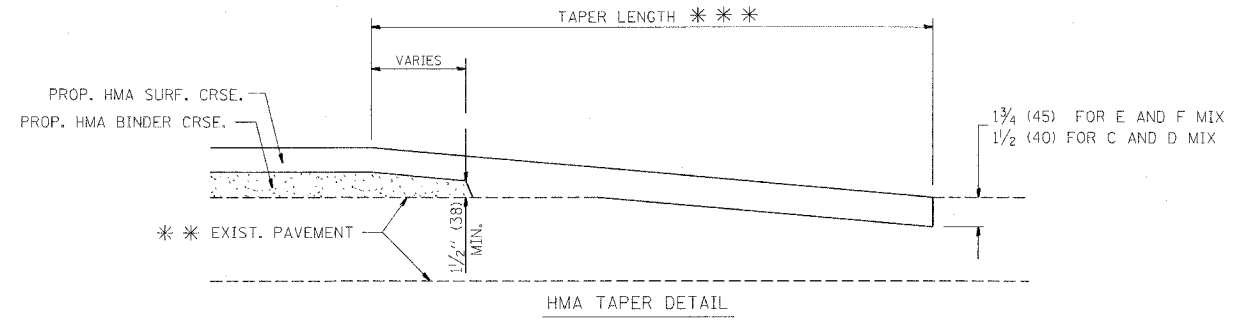
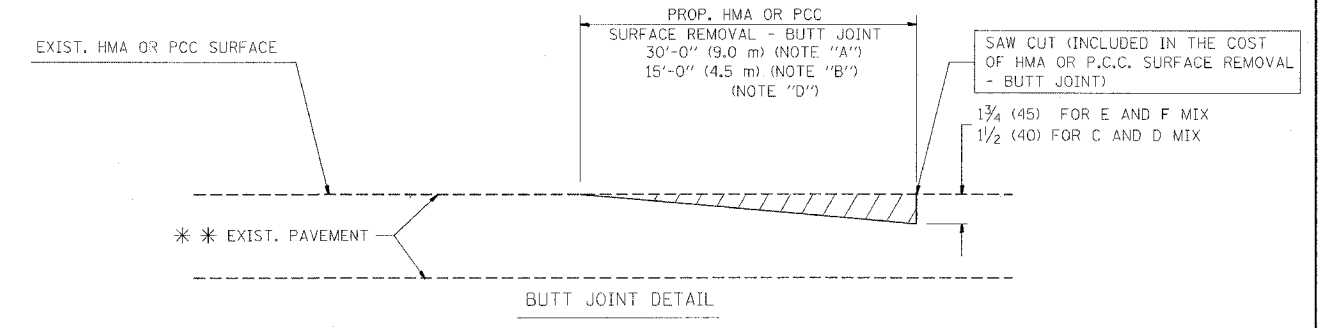


OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	10/11/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

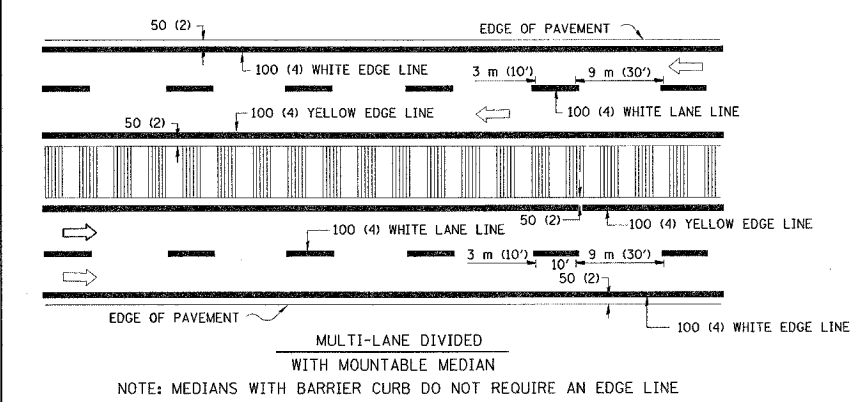
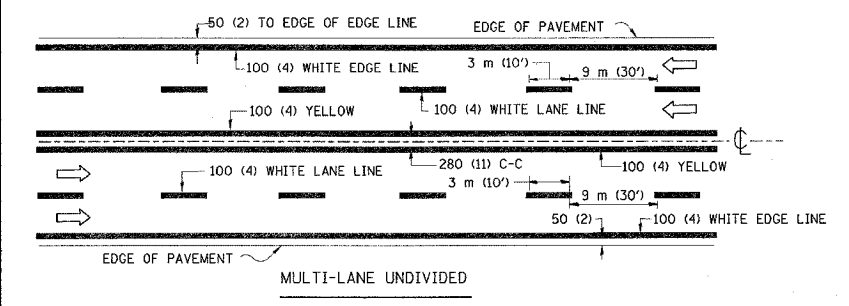
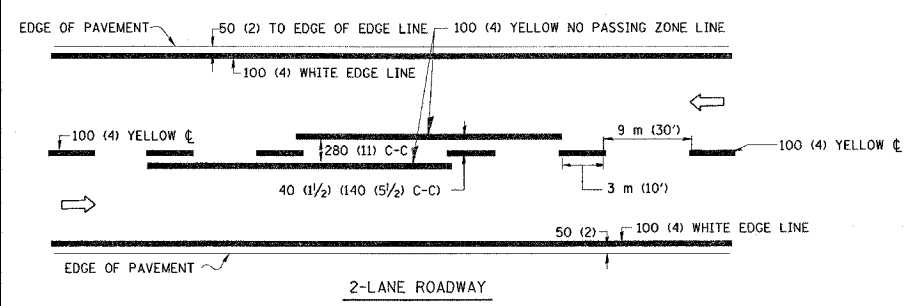
BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. HORIZ. DATE: 11/3/2006

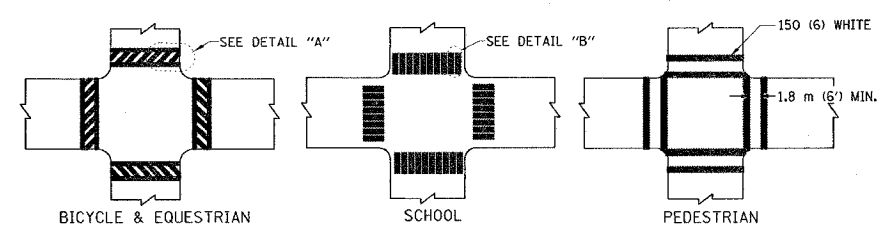
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BD400-05 (VI-BD32) REVISION DATE: 10/11/06

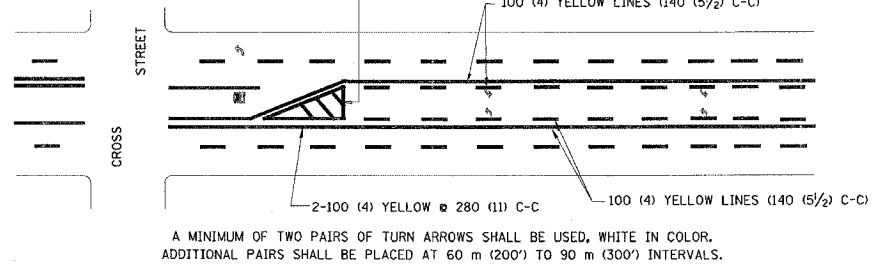
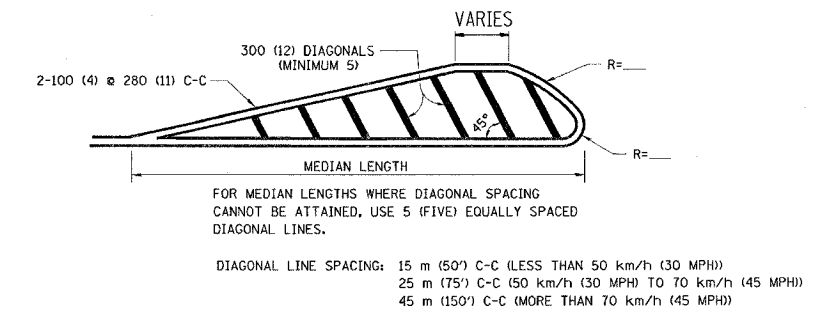
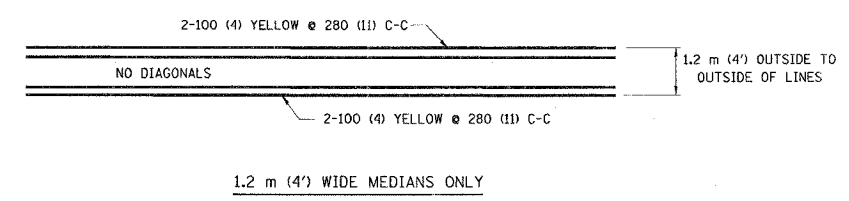
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



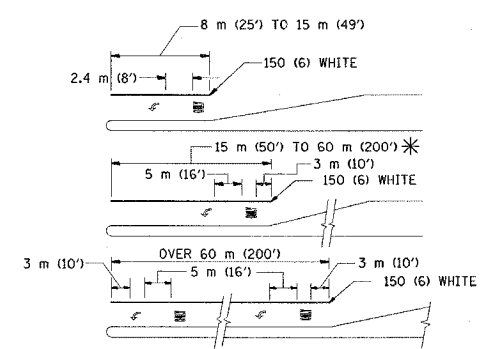
TYPICAL LANE AND EDGE LINE MARKING



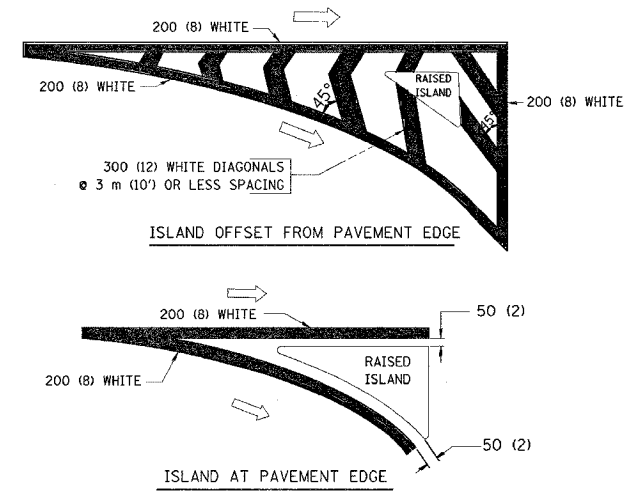
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

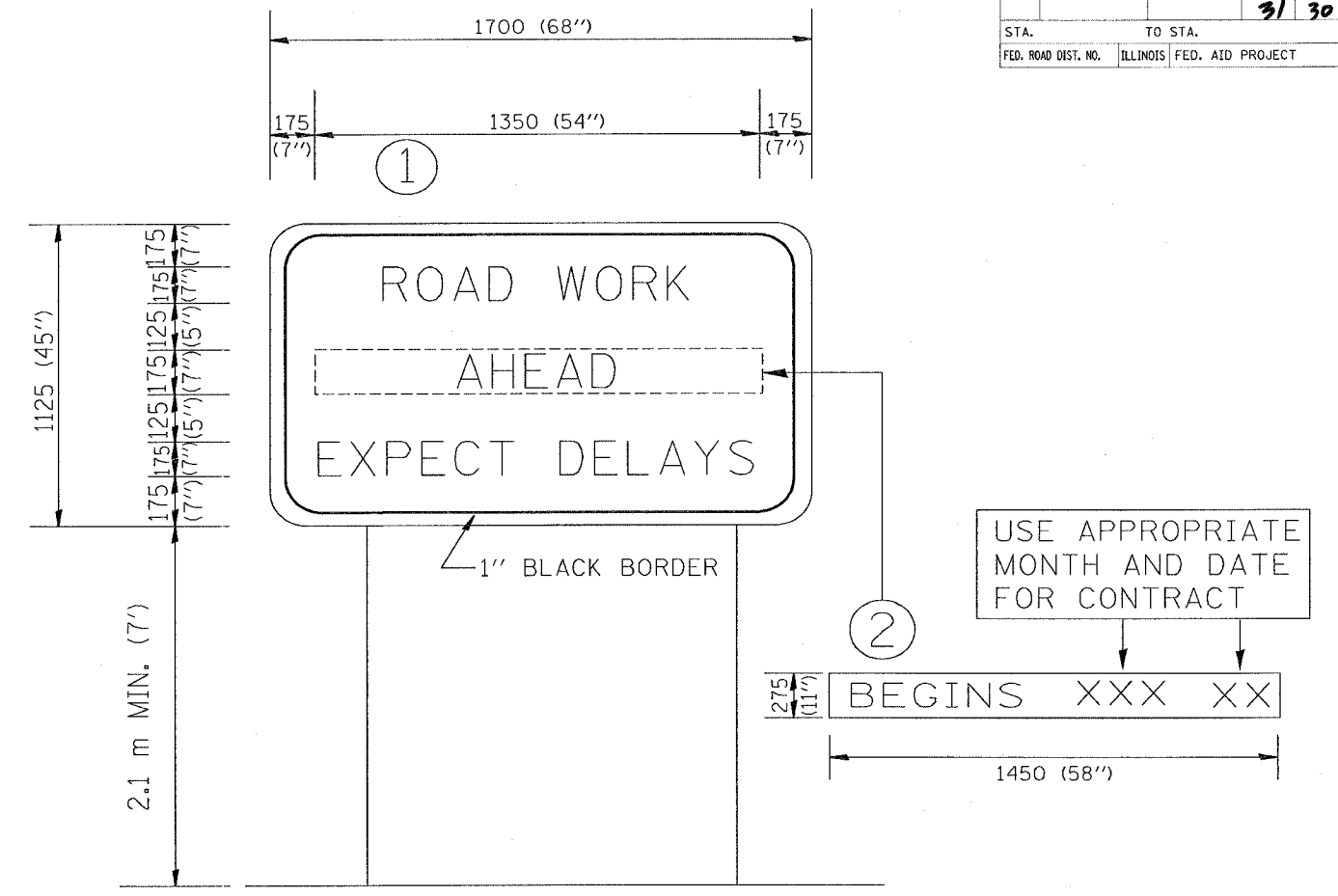
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DATE: 11/3/2006
DRAWN BY CADD
CHECKED BY
TC-13
REVISION DATE: 01/06/00

PLOT DATE = 11/2/2006
FILE NAME = s:\projects\1103\1103.dgn
PLOT SCALE = 50.000 / 1 IN.
USER NAME = bgrum

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	30
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY INFORMATION SIGNING

SCALE:
DATE: 11/3/2006

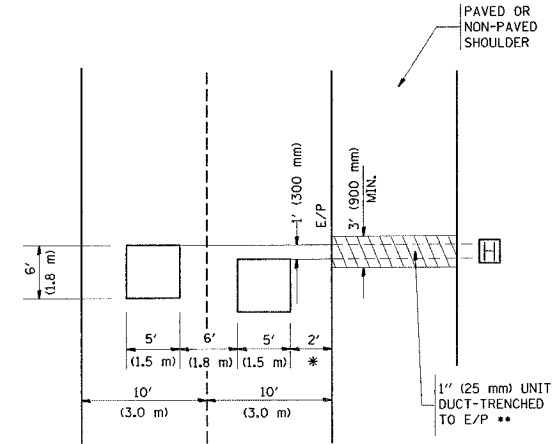
DRAWN BY DESIGN
CHECKED BY

TC22
REVISION DATE: 02/02/99

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

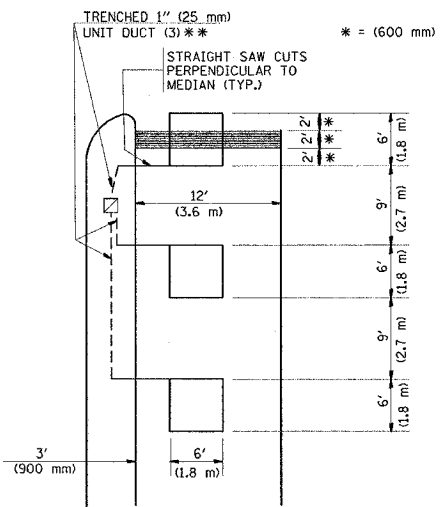
PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



* = (600 mm)
 ** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

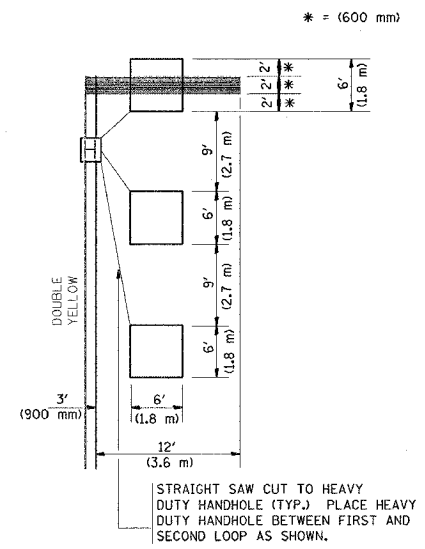
**LEFT TURN LANES WITH MEDIANS
 VOLUME DENSITY ("FAR OUT" DETECTION)
 ON SAME APPROACH
 (PROTECTED / PERMITTED LEFT TURN PHASING)**

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD B14001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



* = (600 mm)
 ** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.
 NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
 VOLUME DENSITY ("FAR OUT" DETECTION)
 ON SAME APPROACH
 (PROTECTED / PERMITTED LEFT TURN PHASING)**



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

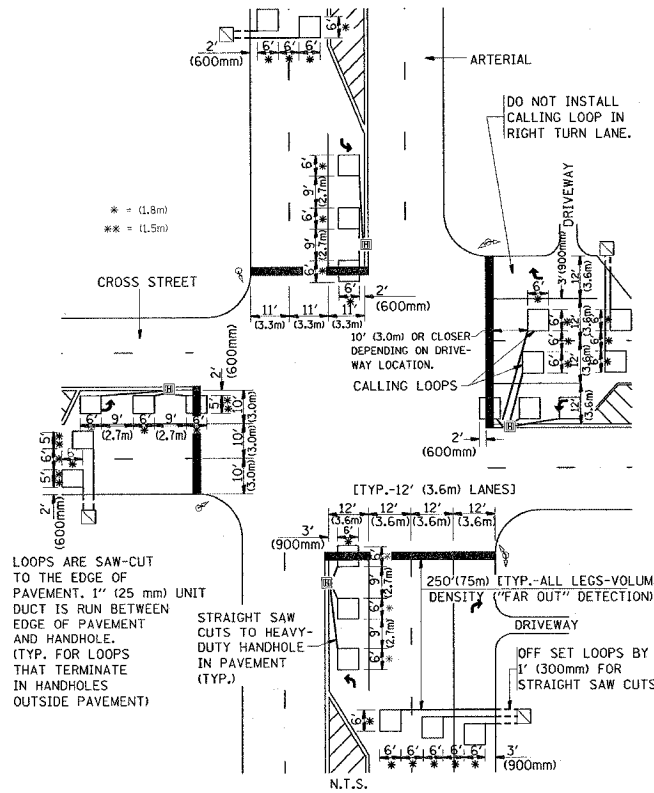
NOTE:
 ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

REVISIONS	
NAME	DATE

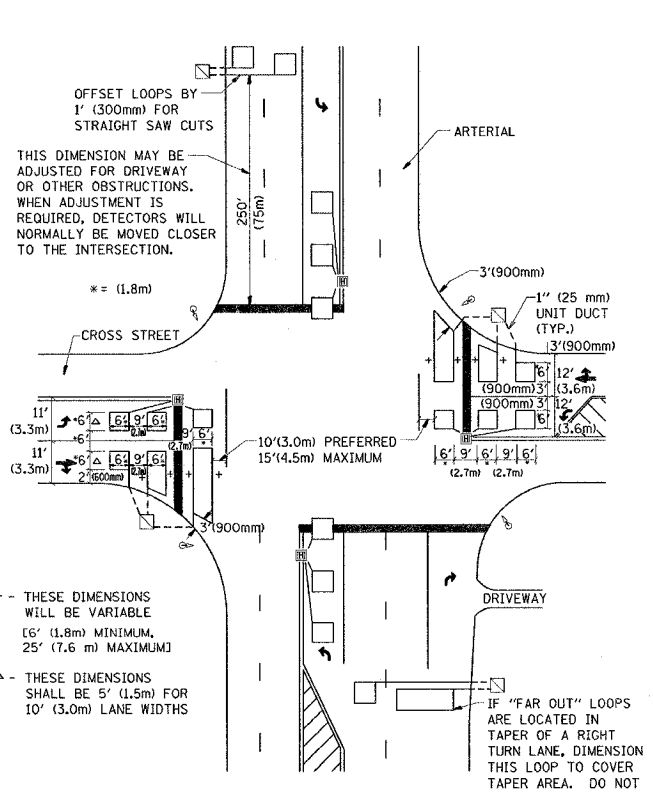
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 DETECTOR LOOP
 INSTALLATION DETAILS
 FOR ROADWAY RESURFACING
 DESIGNED BY
 DRAWN BY CADD
 CHECKED BY R.K.F.
 TSO7
 REVISION DATE:
 SCALE: NONE
 DATE: 11/3/2006

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
 CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



**DETAIL 1
 N.T.S.**

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
 CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



**DETAIL 2
 N.T.S.**

+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]
 Δ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

PLOT DATE = 11/3/2006
 FILE NAME = h:\dist1\ts7\ts7.dgn
 USER NAME = r.k.f.
 USER = r.k.f.