

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SPARTA 2019	RANDOLPH	17	1
		ILLINOIS	CONTRACT NO. 46915	

131

FOR INDEX OF SHEETS, SEE SHEET NO. 02

PROPOSED HIGHWAY PLANS

WORLD SHOOTING & RECREATION COMPLEX SECTION SPARTA 2019

OIL AND CHIP RANDOLPH COUNTY C-30-003-19



IDNR FILE # 4-19-005



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

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



PROJECT ENGINEER VINCE MADONIA 217 /782-4074

GROSS AND NET LENGTH = APPROX. 3.7 MILES INTERNAL PARK ROADS

CONTRACT NO. 46915

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 22 2019
[Signature]
REGIONAL ENGINEER

March 22 2019
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 22 2019
[Signature]
DIRECTOR OF SECTION HIGHWAYS PROJECT IMPLEMENTATION

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

GENERAL NOTES:

1. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
2. IN ADDITION TO FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS, AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.

HIGHWAY STANDARDS

701901-08
 BLR 17-4
 BLR 18-6
 BLR 21-9
 BLR 22-7

INDEX OF SHEETS

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2	STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	SCHEDULES
5	TYPICAL CROSS SECTION
6-12	PLAN MAPS
13-16	STRIPING PLAN
17	ADA DETAILS

The Following HMA mixture Requirements are applicable to this project:		
Locations	Cardinal Road	Cardinal Road
Mixture Uses	Binder Course	Surface Course
PG	PG 64-22	PG 64-22
Design Air Voids	4.0% @ N70	4.0% @ N70
Mixture Composition	IL 19.0	IL 9.5
Friction Aggregate	N/A	Mix C
Quality Management Program	QC/QA	QC/QA
Sublot Size	N/A	N/A

REV. - MS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PARK ROADS 100% STATE ROADWAY
				0005 RURAL
20200100	EARTH EXCAVATION	CU YD	4,520	4,520
21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	4,165	4,165
25000200	SEEDING, CLASS 2	ACRE	1	1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	78	78
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	78	78
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	78	78
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.8	1.8
25100115	MULCH, METHOD 2	ACRE	1	1
35100100	AGGREGATE BASE COURSE, TYPE A	TON	6,920	6,920
35800100	PREPARATION OF BASE	SQ YD	4,600	4,600
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	524	524
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	3.9	3.9
40300400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	125.7	125.7
40300500	COVER COAT AGGREGATE	TON	600	600
40300600	SEAL COAT AGGREGATE	TON	543	543
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11,138	11,138
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	14,850	14,850
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	624	624
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	416	416
44000100	PAVEMENT REMOVAL	SQ YD	4,950	4,950
45100200	CRACK FILLING	POUND	4,000	4,000
67100100	MOBILIZATION	LSUM	1	1
* 72000100	SIGN PANEL, TYPE 1	SQ FT	60	60
* 72900100	METAL POST, TYPE A	FT	360	360
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	93	93
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	40,975	40,975
X0325800	PARKING LOT SEAL COAT	SQ YD	71,200	71,200

* SPECIALTY ITEM

REV. - MS

FILE NAME :	USER NAME : *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -						SPARTA 2019	RANDOLPH	17	3
MODELNAME		CHECKED -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	CONTRACT NO. 46915	
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT	

Application Rates:	Prime Coat	0.40	gal/SY	Prime Density	8.5	lb/gal
	Bit Cove	0.35	gal/SY	Cov. Coat Density	8.5	lb/gal
	Agg Cov	25	lb/SY	Bit Seal Coat Den.	8.5	lb/gal
	Bit Cove	0.30	gal/SY	Agg Base Repair	2.05	Tons/CUYD
	Agg Cov	25	lb/SY			
	Bit Seal Coat	0.30	gal/SY			
	Bit Seal Coat Agg	25	lb/SY			

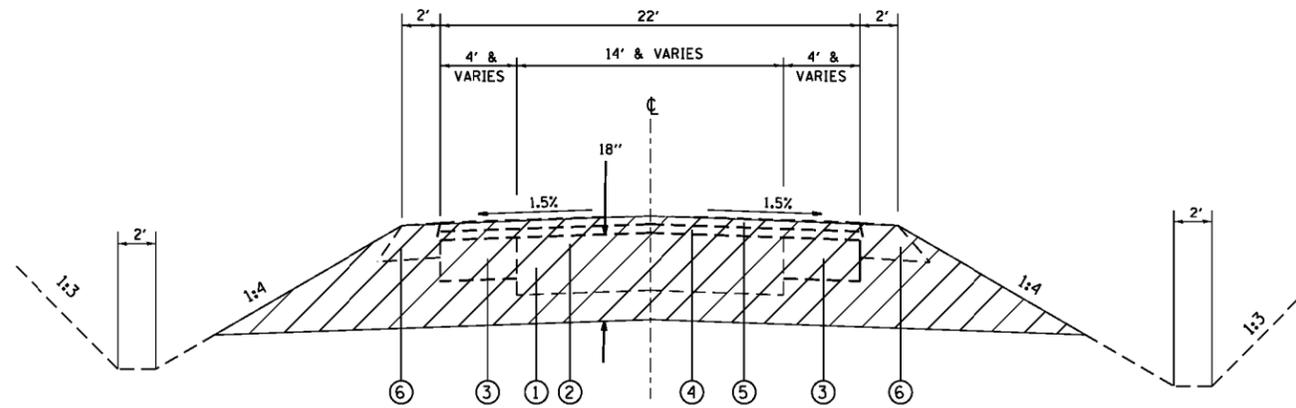
Location	Length (Feet)	Width (Feet)	Area (SQFT)	Area (SQYD)	Existing Surface	Treatment	Prime Coat (Tons)	Bit Cover Coat 1 (Tons)	Agg Cover Coat 1 (Tons)	Bit Cover Coat 2 (Tons)	Agg Cover Coat 2 (Tons)	Bit Seal Coat (Tons)	Seal Coat Agg (Tons)	Prep Of Base (SQYD)	Agg Surf Cse T-A (Tons)
Main Event Center Lane	1,250	20	25,000	2,777.8	O&C	A-2	-	4.13	34.72	-	-	3.54	34.72	-	-
Cardinal Road	16,200	20	324,000	36,000.0	O&C	A-2	-	53.55	450.00	-	-	45.90	450.00	-	-
Cart Path West	750	12	9,000	1,000.0	AGG	A-3	0.85	1.49	12.50	1.28	12.50	1.28	12.50	1,000.0	113.89
Cart Path Middle	900	12	10,800	1,200.0	AGG	A-3	1.02	1.79	15.00	1.53	15.00	1.53	15.00	1,200.0	136.67
Cart Path East	1,800	12	21,600	2,400.0	AGG	A-3	2.04	3.57	30.00	3.06	30.00	3.06	30.00	2,400.0	273.33
Totals				43,378			3.9	64.5	542.2	5.9	57.5	55.3	542.2	4,600	524

Parking Lot Seal Coat Schedule				Paint 4" (ft)	Paint 4" (ft)	Paint L&S (sq ft)	Signage (sq ft)	Posts (ft)
Location	Area (SQYD)	Crack Filling (Pound)	Parking Lot Seal Coat (SQYD)	parking White	ADA edge Yellow	ADA hash Yellow		
Parking Lot	71,200.0	4,000.0	71,200.0	37,660	1200	2,115		
				30		93	60	360
				30				
				30				
				38,860	2,115	93	60	360

Measured 4,500 linear feet of cracks with variable depths and widths
Assume 4,000 pound crack filling

Cardinal Road Reconstruction

Length	Area		HMA Binder	HMA Surface	Bit. Mat'l's Prime	Bit. Mat'l's Tack	Pavement Removal	Earth Excavation	Agg. Base Cse, Ty A	Fertilizer N, P, K	Seeding	Topsoil	Ag. Limestone	Mulch Method 2
FT	SQ FY	SQ YD	TON	TON	POUND	POUND	SQ YD	CU YD	TON	POUND	ACRE	SQ YD	TON	ACRE
2,025	44,550	4,950	623.7	415.8	11,138	14,850	4,950	4,520	6,920	78	0.86	4,165	1.75	0.86

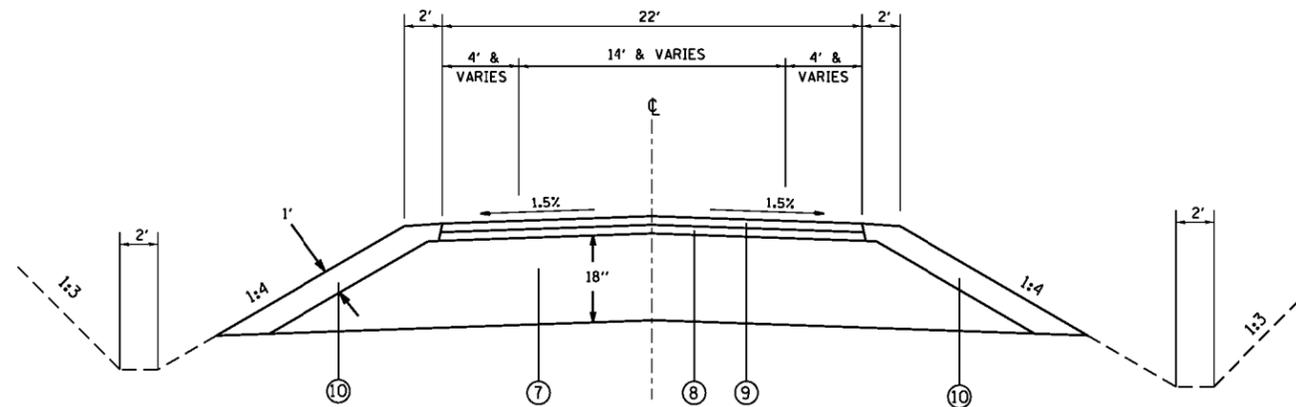


EXISTING CARDINAL ROAD

PAVEMENT RECONSTRUCTION AREA (APPROX. 2,025')

LEGEND

- ① EXISTING PAVEMENT/AGGREGATE BASE
- ② EXISTING BASE
- ③ EXISTING AGGREGATE BASE COURSE, TYPE A - 8"
- ④ EXISTING LEVELING BINDER - 1 1/2"
- ⑤ EXISTING BITUMINOUS CONCRETE SURFACE COURSE - 1 1/2"
- ⑥ EXISTING AGGREGATE SHOULDERS - 6"



PROPOSED CARDINAL ROAD

PAVEMENT RECONSTRUCTION AREA (APPROX. 2,025')

LEGEND

- ⑦ PROPOSED AGGREGATE BASE COURSE, TYPE A - 18"
- ⑧ PROPOSED HMA BINDER - 2 1/4"
- ⑨ PROPOSED HMA SURFACE COURSE - 1 1/2"
- ⑩ PROPOSED TOPSOIL

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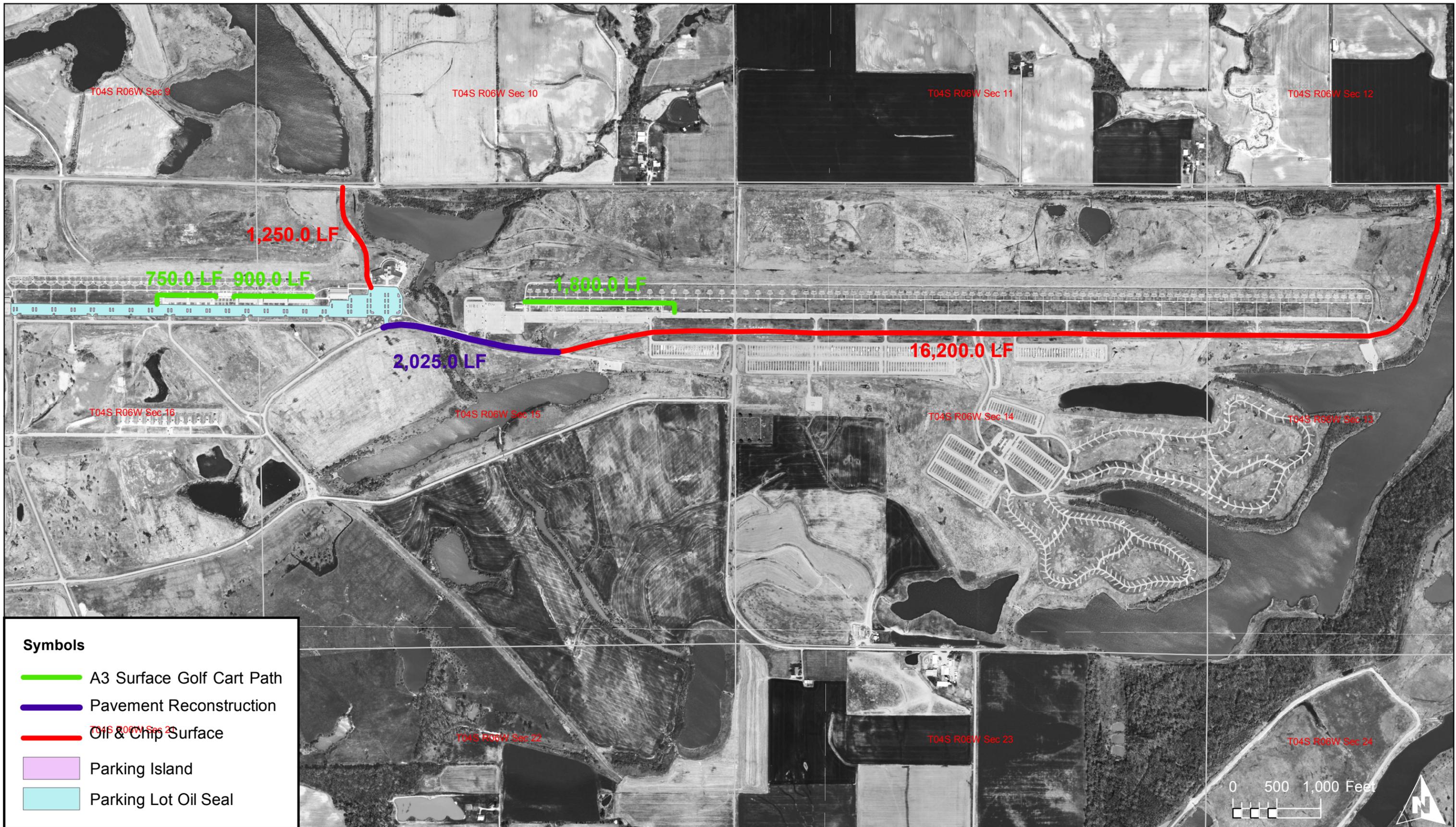
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CARDINAL ROAD RECONSTRUCTION
TYPICAL CROSS SECTION**

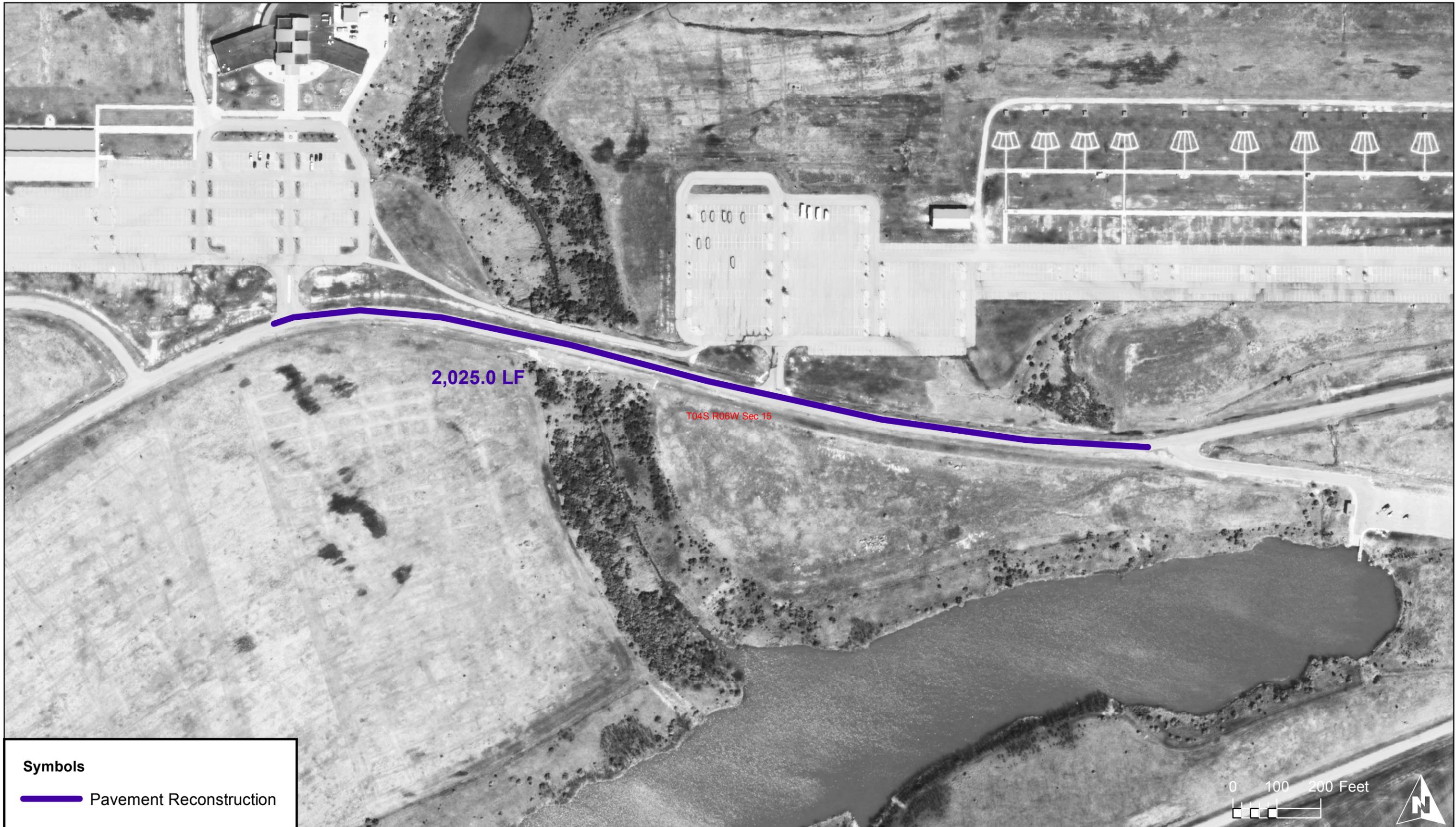
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SPARTA 2019	RANDOLPH	17	05
			CONTRACT NO. 46915	
ILLINOIS FED. AID PROJECT				



Plan View - World Shooting and Recreation Complex - Cardinal Road Oil & Chip

Contract 46915
 Section: Main Entrance Road
 RANDOLPH COUNTY
 SHEET 6 of 17



2,025.0 LF

T04S R06W Sec 15

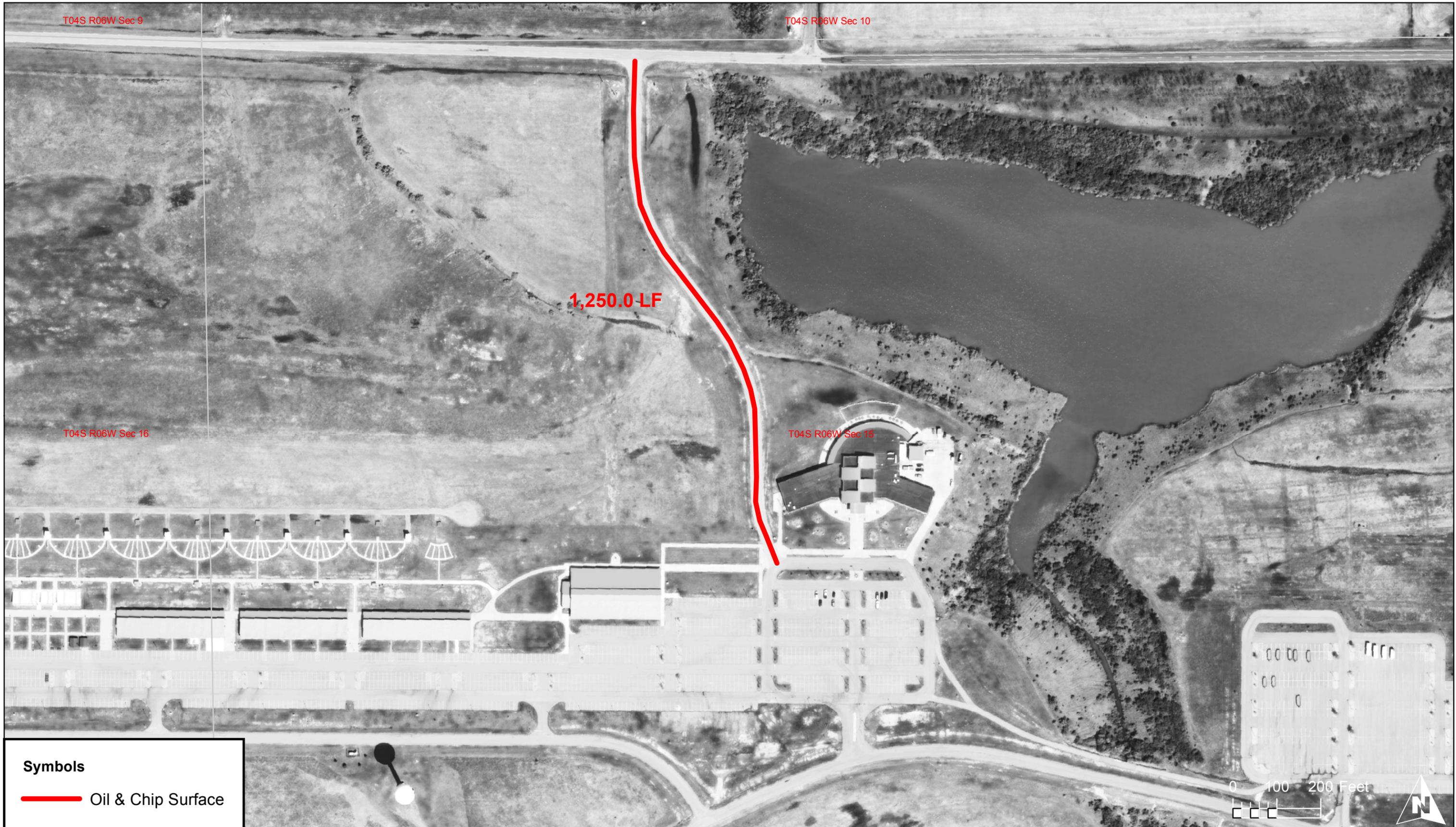
Symbols

 Pavement Reconstruction



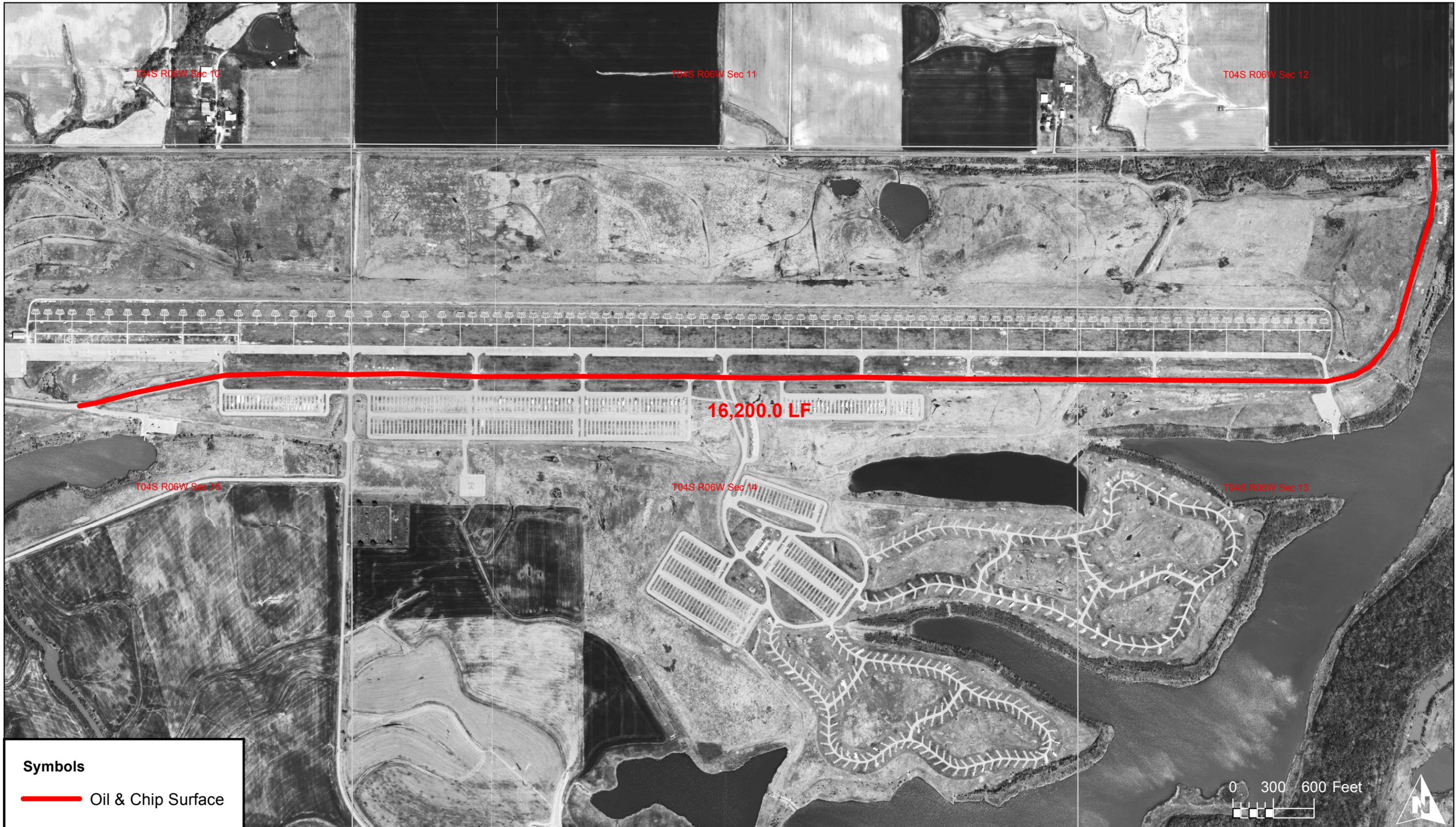
Plan View - World Shooting and Recreation Complex - Cardinal Road Reconstruction

Contract 46915
Section: Road Reconstruction
RANDOLPH COUNTY
SHEET 7 of 17



Plan View - World Shooting and Recreation Complex - Event Center Entrance Oil & Chip

Contract 46915
Section: Road Reconstruction
RANDOLPH COUNTY
SHEET 8 of 17



Plan View - World Shooting and Recreation Complex - Cardinal Road Oil & Chip



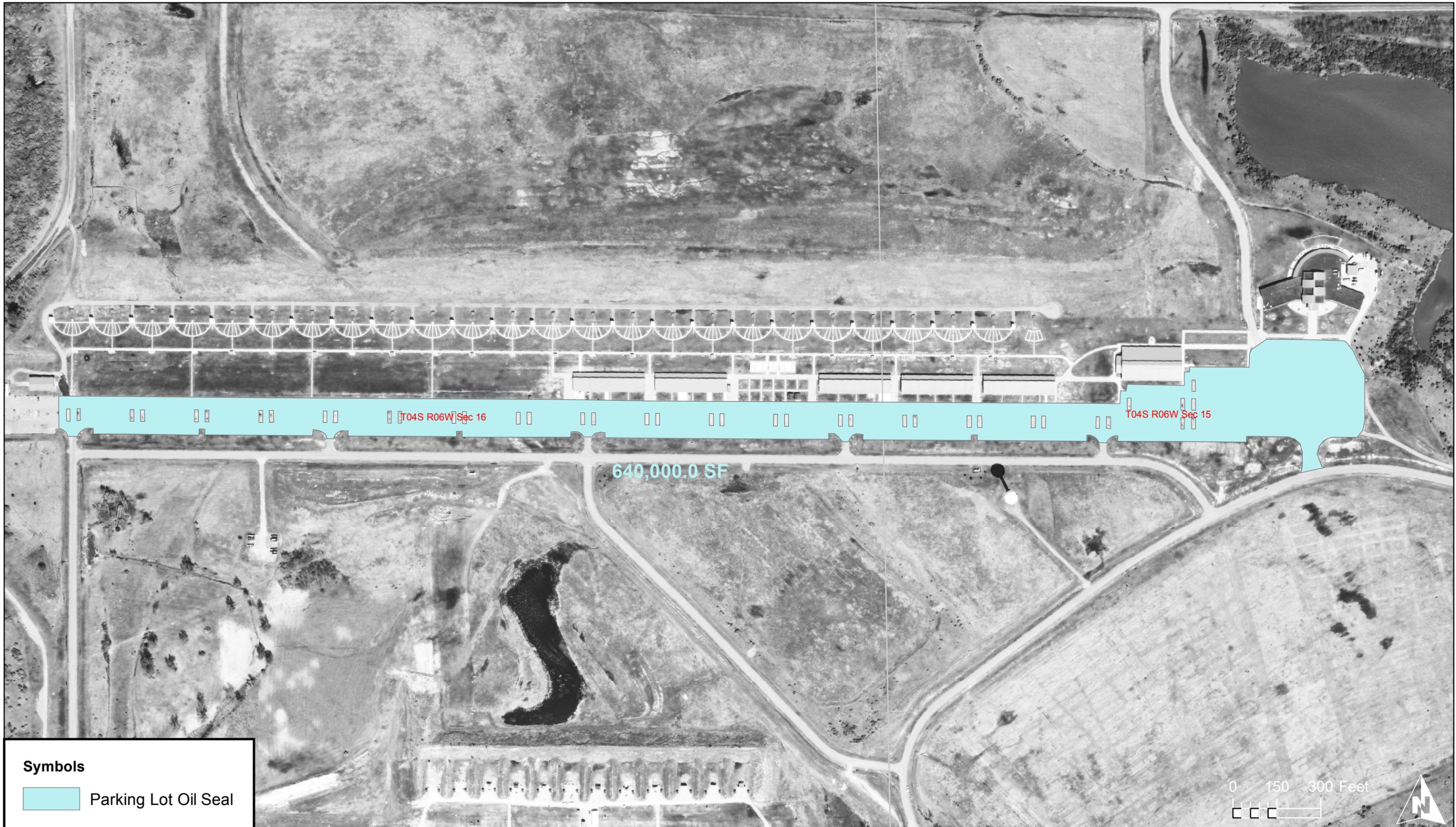
Plan View - World Shooting and Recreation Complex - Cart Paths

Contract 46915
Section: Golf Cart Path Oil & Chip
RANDOLPH COUNTY
SHEET 10 of 17

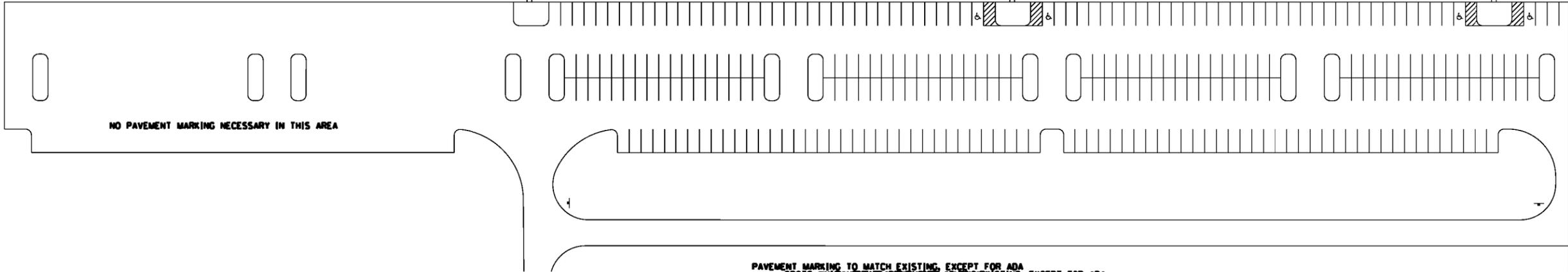
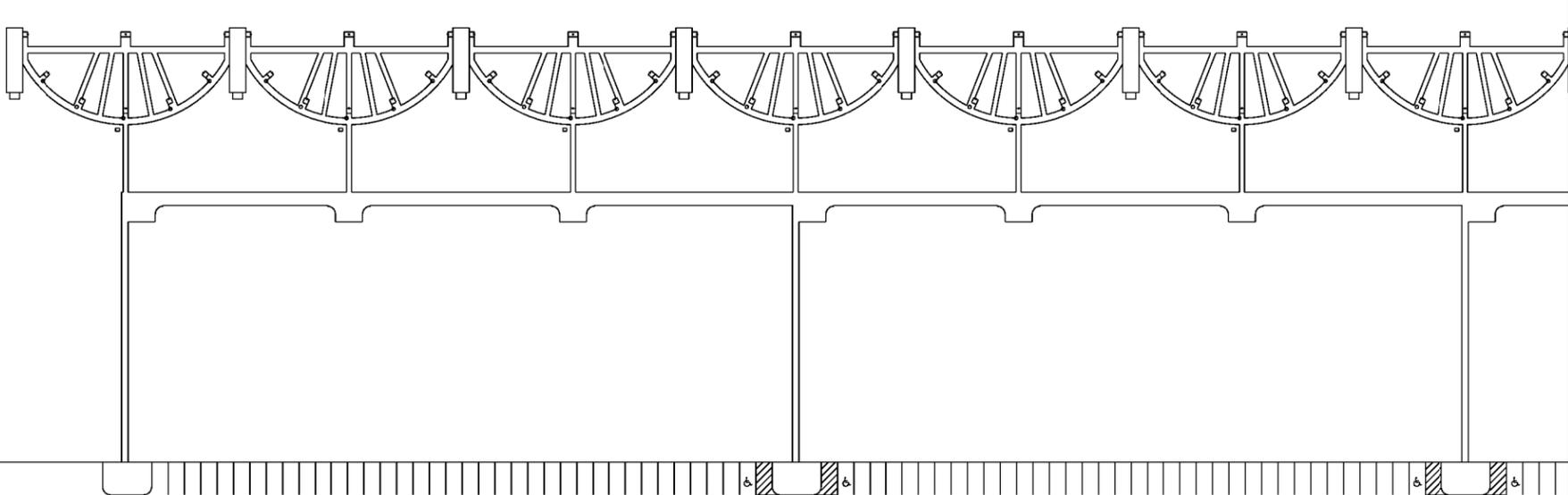
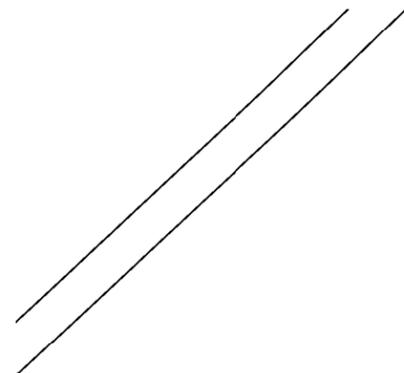


Plan View - World Shooting and Recreation Complex - Cart Paths

Contract 46915
Section: Golf Cart Path Oil & Chip
RANDOLPH COUNTY
SHEET 11 of 17



Plan View - World Shooting and Recreation Complex - Parking lot to be sealed



NO PAVEMENT MARKING NECESSARY IN THIS AREA

PAVEMENT MARKING TO MATCH EXISTING, EXCEPT FOR ADA SPOTS WHICH ARE TO BE PLACED AS SHOWN.

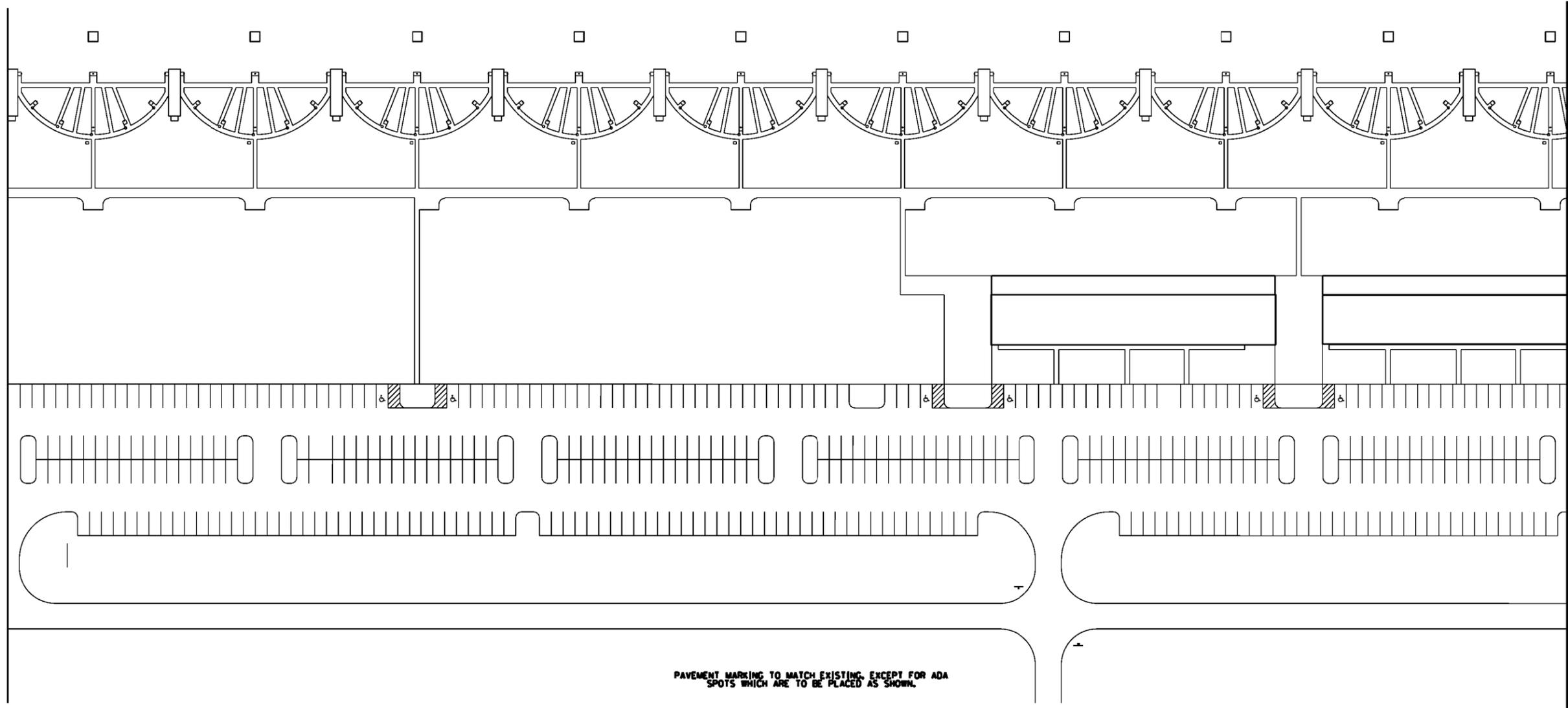
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRIPING LAYOUT			
SCALE:	SHEET 01 OF 04 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SPARTA 2019	RANDOLPH	17	13
CONTRACT NO. 46915				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING TO MATCH EXISTING, EXCEPT FOR ADA SPOTS WHICH ARE TO BE PLACED AS SHOWN.

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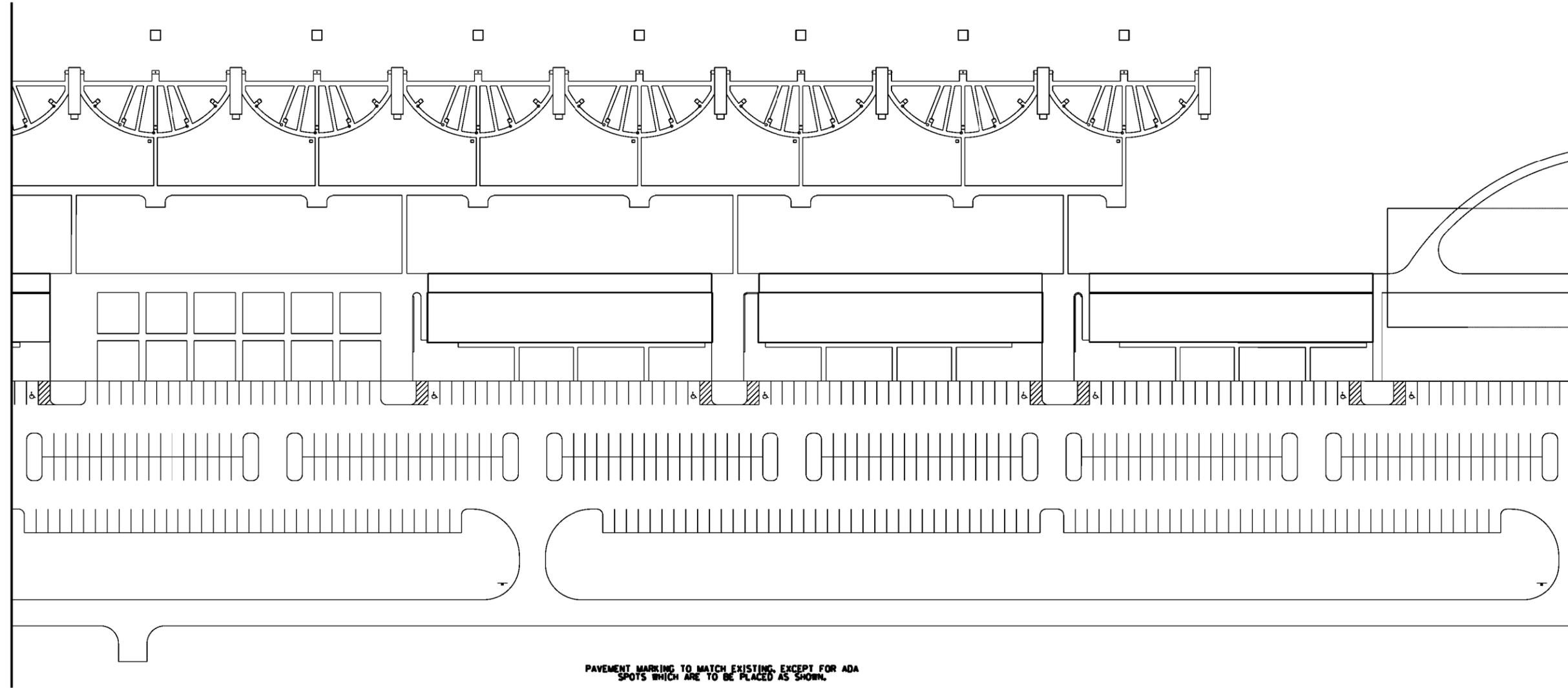
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRIPING LAYOUT

SCALE: SHEET 02 OF 04 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SPARTA 2019	RANDOLPH	17	14
			CONTRACT NO. 46915	
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING TO MATCH EXISTING, EXCEPT FOR ADA SPOTS WHICH ARE TO BE PLACED AS SHOWN.

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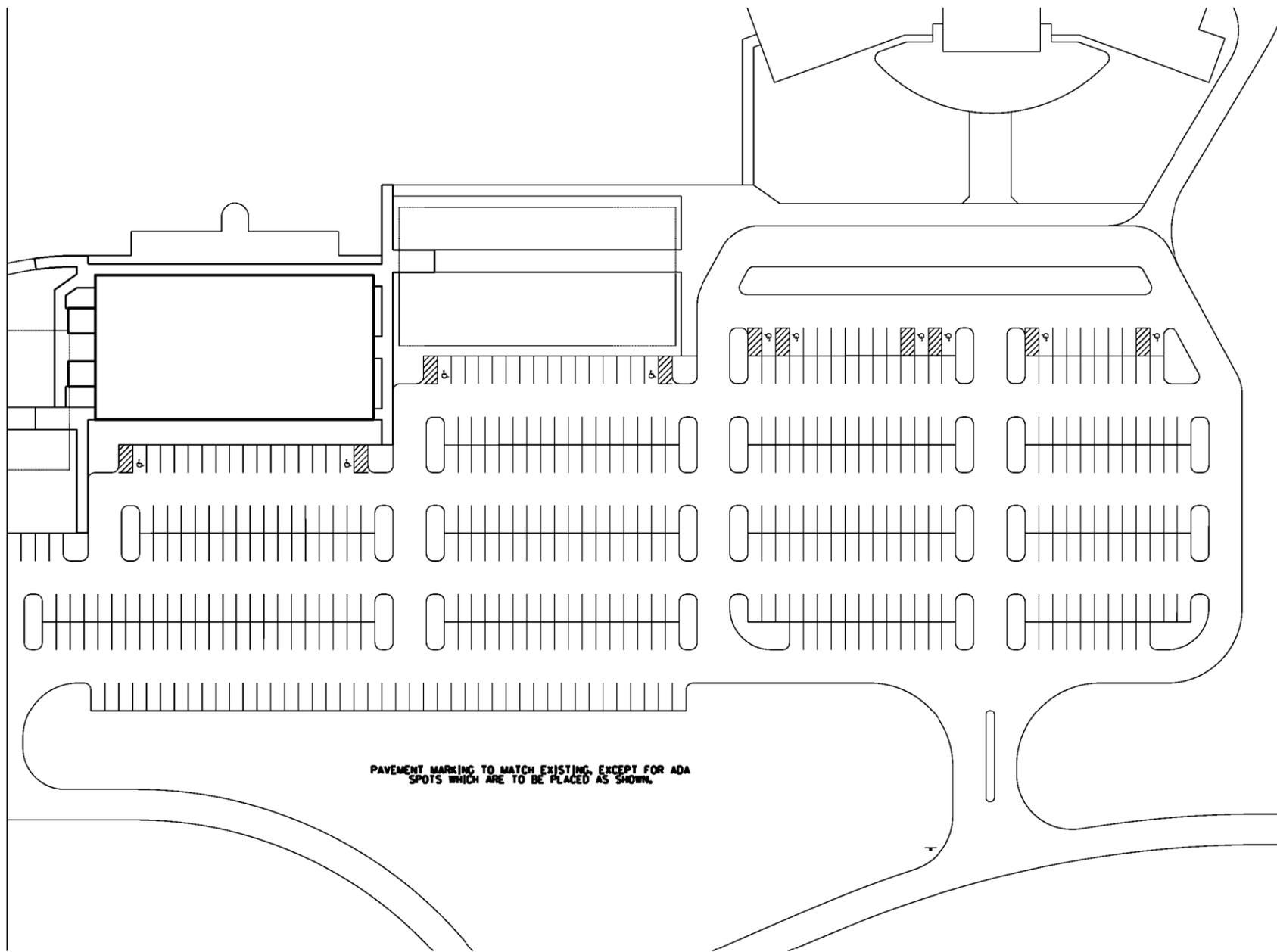
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRIPING LAYOUT

SCALE: SHEET 03 OF 04 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SPARTA 2019	RANDOLPH	17	15
CONTRACT NO. 46915				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = \$DATE\$	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRIPING LAYOUT

SCALE: SHEET 04 OF 04 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SPARTA 2019	RANDOLPH	17	16
CONTRACT NO. 46915				
ILLINOIS FED. AID PROJECT				

RESERVED PARKING SIGN DETAIL

