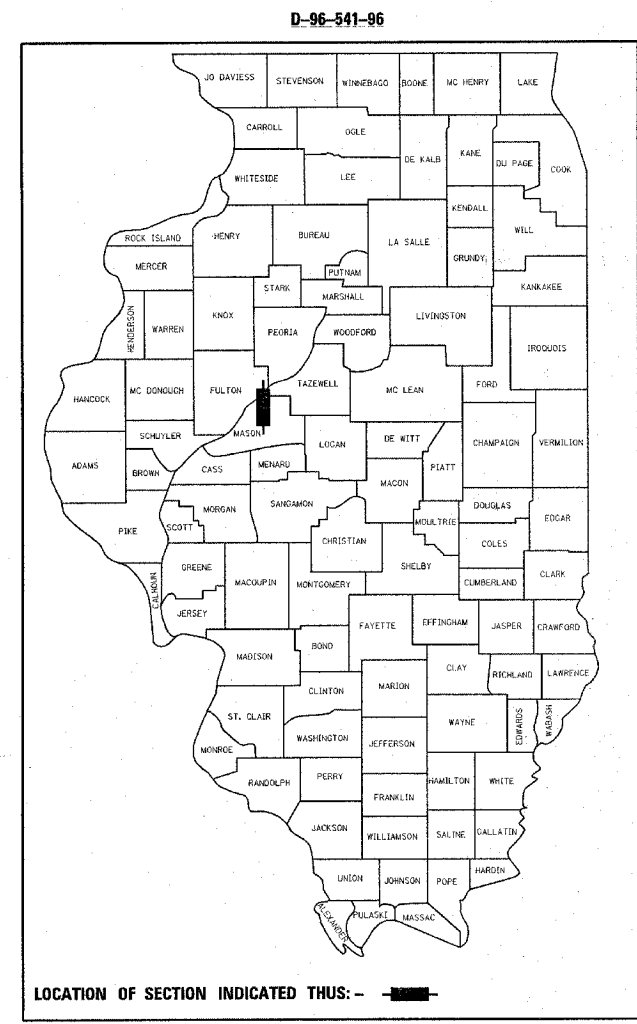


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

PARK ROADS (SANDRIDGE ROAD & JAKE WOLF MEMORIAL FISH HATCHERY ROAD)
SAND RIDGE STATE FOREST 2004
MASON COUNTY
C-96-554-04



INDEX OF SHEETS

| SHT NO. | DESCRIPTION |
|---------|-----------------------------------------------------------------------|
| 1 | COVER SHEET |
| 2 | GENERAL NOTES, & COMMITMENTS |
| 3 | DETAILED LOCATION MAP |
| 4-7 | SUMMARY OF QUANTITIES |
| 8-12 | SCHEDULE OF QUANTITIES |
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| 17-18 | TYPICAL SECTIONS |
| 19-22 | PLAN SHEETS (JAKE WOLF MEMORIAL FISH HATCHERY ROAD AND PARKING AREA). |
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| 53-54 | MISCELLANEOUS DETAILS |
| 55-84 | CROSS SECTIONS (SAND RIDGE ROAD) |
| 85-86 | CROSS SECTIONS (SAND RIDGE ROAD WETLAND MITIGATION POND) |

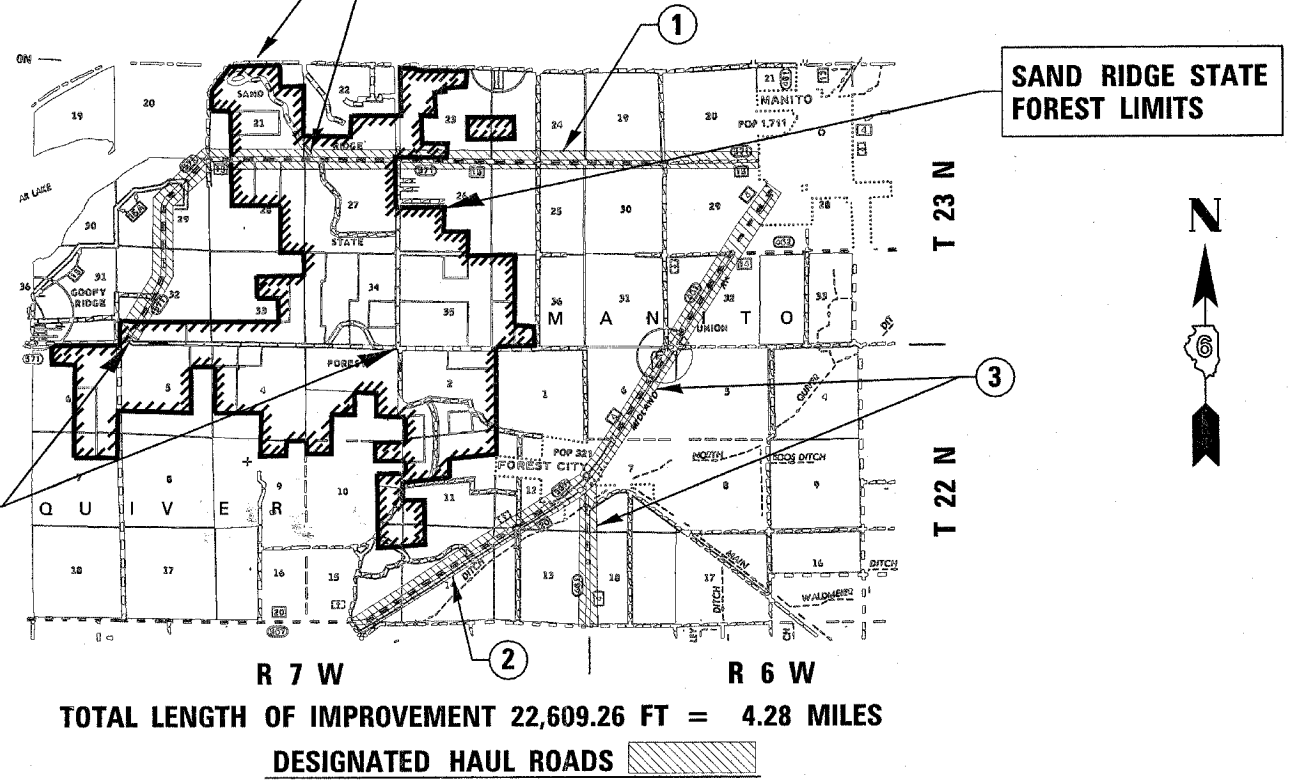
LIST OF STANDARDS

| | |
|-----------|-----------|
| 280001-02 | 701326-02 |
| 442201-01 | 702001-05 |
| 542301 | 720001 |
| 542401 | 720006 |
| 606001-02 | 720011 |
| 635001 | 780001-01 |
| 701001-01 | 000001-04 |
| 701006-02 | 001001 |
| 701011-01 | 001006 |
| 701201-02 | BLR 21-6 |
| | BLR 22-4 |

PROJECT INCLUDES RESURFACING OF JAKE WOLF MEMORIAL FISH HATCHERY ENTRANCE ROAD & PARKING AREAS
5,877.90 FT = 1.11 MILES

SEE PAGE #2 FOR ROADWAY LIMITS AND STATION EQUATIONS

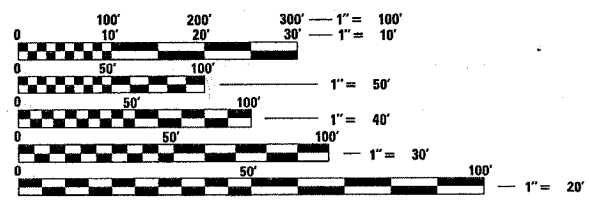
PROJECT ADDITIONALLY INCLUDES RECONSTRUCTION OF SAND RIDGE ROAD,
16,537.79 FT = 3.13 MILES



R 7 W R 6 W
TOTAL LENGTH OF IMPROVEMENT 22,609.26 FT = 4.28 MILES

DESIGNATED HAUL ROADS [hatched box]

- ① CH 15 (GOOFY RIDGE BLACKTOP) FROM SAND RIDGE RD. TO MANITO
- ② CH 20 FROM HAVANA TO FOREST CITY
- ③ CH 4 FROM US 136 TO MANITO



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 72118

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 8, 2005

Victor Mader
DISTRICT ENGINEER

Mike Sine
ENGINEER OF DESIGN AND ENVIRONMENT

Victor Mader
DIRECTOR, DIVISION OF HIGHWAYS

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

PROJECT ENGINEER: JOHN NEGANGARD (217)782-6990
SENIOR SQUAD LEADER: MARK DUST (217)785-0597

GENERAL NOTES:

Where section or Sub-Section Monuments are encountered, the Engineer shall be notified before such monuments are removed. The Contractor shall protect and carefully preserve all property markers and monuments until the owner and authorized Surveyor or Agent has witnessed or otherwise referenced their location.

Any reference to a Standard in the plans shall be interpreted to mean the edition, as indicated by the sub-number listed in the list of Standards, or the copy of the Standard included in these plans.

All details in the plans shall govern construction of this project, and in case of conflict with any Standard drawings included, the said details shall take precedence and shall govern.

The Contractor shall contact J.U.L.I.E. and IDNR Site Manager prior to any excavation to have all public and private utilities located.

The existing signs that interfere with construction shall be relocated as directed by the engineer. After the construction is complete, the contractor shall replace the signs as directed by the engineer. This work will not be paid for separately, but considered included in the contract unit bid prices.

The following mixture requirements are applicable to this project:

| Mixture Use(s) | Level Binder (MM) | Bit. Base Cse., 8" | Bit. Surface |
|-------------------------------------|----------------------|----------------------|----------------------|
| AC/PG | PG 64-22 | PG 64-22 | PG 64-22 |
| RAP % (max.) | 15% | 15% | 15% |
| Design Air Voids | 4.0% @ N Design = 50 | 2.0% @ N Design = 50 | 4.0% @ N Design = 50 |
| Mix Composition (Gradation Mixture) | IL 9.5 | IL 19.0 | IL 9.5 or 12.5 |
| Volumetric Requirements | ----- | ----- | ----- |
| Friction Aggregate | NA | NA | Mix 'C' |
| Field Density | 93-97 | 93-97 | 93-97 |

COMMITMENTS:

- The Field /Residents Engineer shall contact Studies & Plans concerning any major plan changes to make sure no commitments (not listed) were made affecting the design, and to allow improvements in the design for future projects
- No access will be allowed outside the construction limits without approval of the IDNR Site Manager.
- Roads shall be kept open as much as possible to provide access to Day Use Areas, Campgrounds, and the Site Office. The Contractor shall coordinate all Road Closures/Restriction with the IDNR Site Manager seven calendar days prior to implementation.
- Letter of Understanding with IDNR, and township.
- SWPPP included in plans and required for NPDES permit.
- Tree removal area measured for payment. 3ft outside construction limits to 3ft outside construction limits (note: Includes existing road area where no trees exist).
- Save as many trees as possible.

WORK REQUIREMENT DUE TO ENDANGERED SPECIES:

Construction on Sand Ridge Road shall not start prior to October 1, 2005. All major earthwork, drainage structures, placement of aggregate, and wetland mitigation site shall be completed by February 1, 2006. Work allowed after this date will be placement of the bituminous surface treatment, seeding, (including associated minor grading), and clean-up work, which shall all be completed by June 1, 2006.

| | | |
|---------------------------------|-------------------|--------------|
| EXAMINED | <u>Jan 14</u> | 20 <u>04</u> |
| <u>W.R. [Signature]</u> | | |
| PROGRAM IMPLEMENTATION ENGINEER | | |
| EXAMINED | <u>February 9</u> | 20 <u>05</u> |
| <u>William E. [Signature]</u> | | |
| PROGRAM DEVELOPMENT ENGINEER | | |

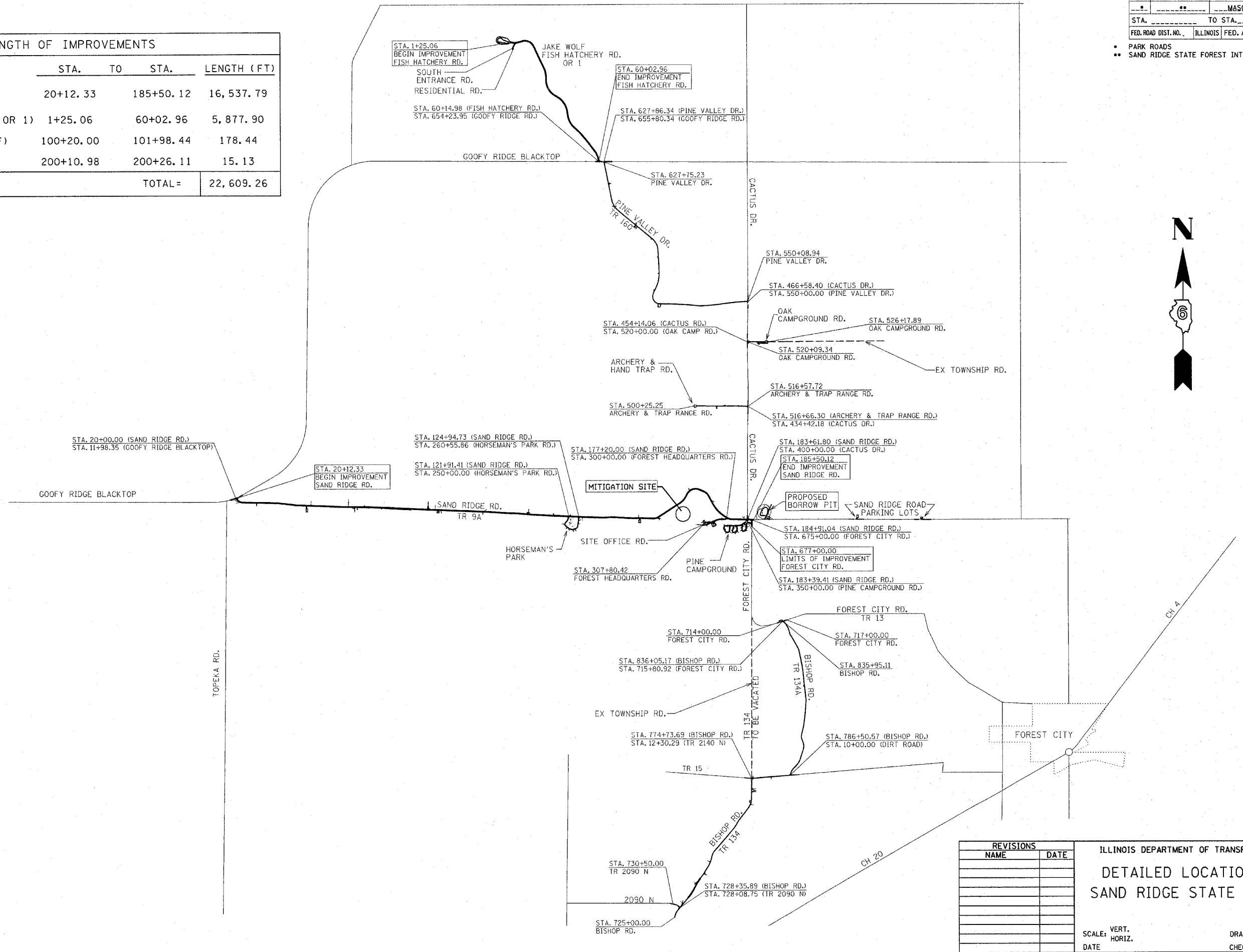
| | | |
|---------------------|-------------------|--------------|
| DISTRICT SIX | | |
| EXAMINED | <u>January 20</u> | 20 <u>04</u> |
| <u>[Signature]</u> | | |
| OPERATIONS ENGINEER | | |

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION GENERAL NOTES & COMMITMENTS LIST OF STANDARDS |
|-----------|------|------------------------------------------------------------------------------------------------|
| NAME | DATE | |
| | | SCALE: VERT. _____ DATE: _____ HORIZ. _____ DRAWN BY: <u>EJW</u> CHECKED BY: _____ |
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------------------|--------------|-----------|
| .. | .. | MASON | 86 | 3 |
| STA. _____ TO STA. _____ | | | | |
| FED. ROAD DIST. NO. _____ | | ILLINOIS FED. AID PROJECT | | |

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004

| TOTAL LENGTH OF IMPROVEMENTS | | | | |
|-----------------------------------------------|-----------|-----------|-------------|--|
| BASE LINE | STA. | TO STA. | LENGTH (FT) | |
| SAND RIDGE RD. (TR 9A) & HUNTER PARKING AREAS | 20+12.33 | 185+50.12 | 16,537.79 | |
| JAKE WOLF FISH HATCHERY RD. (OR 1) | 1+25.06 | 60+02.96 | 5,877.90 | |
| SOUTH ENTRANCE RD. (JAKE WOLF) | 100+20.00 | 101+98.44 | 178.44 | |
| RESIDENTIAL RD. (JAKE WOLF) | 200+10.98 | 200+26.11 | 15.13 | |
| | TOTAL = | | 22,609.26 | |



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ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILED LOCATION MAP
SAND RIDGE STATE FOREST

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

c:\projects\d654196\location.dgn
 2/5/2004
 REF 01

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

| LOCATION OF WORK | | | | CONSTRUCTION TYPE CODE | | |
|-----------------------|--------------------------------------------|-------|----------------|------------------------|--|--|
| SUMMARY OF QUANTITIES | | | | ROADWAY | | |
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | I000 | | |
| 20100110 | TREE REMOVAL (OVER 6 TO 15 UNITS DIAMETER) | UNIT | 134 | 134 | | |
| 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | UNIT | 17 | 17 | | |
| 20100500 | TREE REMOVAL, ACRES | ACRE | 14.53 | 14.53 | | |
| 20200100 | EARTH EXCAVATION | CU YD | 16,016 | 16,016 | | |
| 25000200 | SEEDING, CLASS 2 | ACRE | 5.5 | 5.5 | | |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 1053 | 1053 | | |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 1053 | 1053 | | |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 1053 | 1053 | | |
| 25000700 | AGRICULTURAL GROUND LIMESTONE | TON | 23.4 | 23.4 | | |
| 25001750 | SEEDING, CLASS 4 (SPECIAL) | ACRE | 6.3 | 6.3 | | |
| 25100115 | MULCH, METHOD 2 | ACRE | 10.5 | 10.5 | | |
| 25101005 | HEAVY DUTY EXCELSIOR BLANKET | SQ YD | 3000 | 3000 | | |
| 28000200 | EARTH EXCAVATION FOR EROSION CONTROL | CU YD | 125 | 125 | | |
| 28000300 | TEMPORARY DITCH CHECKS | EACH | 68 | 68 | | |

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT. DATE
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 CHECKED BY

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

| LOCATION OF WORK | | | | CONSTRUCTION TYPE CODE | | |
|-----------------------|---------------------------------------------|-------|----------------|------------------------|--|--|
| SUMMARY OF QUANTITIES | | | | ROADWAY | | |
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | 1000 | | |
| 28000600 | SEEDING, CLASS 7 | ACRE | 10 | 10 | | |
| 28000700 | MULCH, METHOD 1 | ACRE | 10 | 10 | | |
| 28000900 | FENCE (EROSION CONTROL) | FOOT | 1287 | 1287 | | |
| 31101000 | SUB-BASE GRANULAR MATERIAL, TYPE B | TON | 12,324 | 12,324 | | |
| 40200100 | AGGERGATE SURFACE COURSE, TYPE A | TON | 6,958 | 6,958 | | |
| 40300200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 58.2 | 58.2 | | |
| 40300400 | BITUMINOUS MATERIALS (COVER AND SEAL COATS) | TON | 174 | 174 | | |
| 40300500 | COVER COAT AGGREGATE | TON | 815 | 815 | | |
| 40300600 | SEAL COAT AGGREGATE | TON | 408 | 408 | | |
| 40600200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 7.2 | 7.2 | | |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 26.8 | 26.8 | | |
| 40600990 | TEMPORARY RAMP | SQ YD | 40 | 40 | | |
| 44004700 | SIDEWALK REMOVAL (SPECIAL) | SQ FT | 287 | 287 | | |
| 44200120 | PAVEMENT PATCHING, TYPE II, 10 INCH | SQ YD | 100 | 100 | | |
| 48101200 | AGGREGATE SHOULDERS, TYPE B | TON | 216 | 216 | | |

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION | |
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| NAME | DATE | SUMMARY OF QUANTITIES | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

| LOCATION OF WORK | | | | CONSTRUCTION TYPE CODE | | |
|-----------------------|----------------------------------------------------|--------|----------------|------------------------|--|--|
| SUMMARY OF QUANTITIES | | | | ROADWAY | | |
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | 1000 | | |
| 54200433 | PIPE CULVERTS, TYPE 1 RCCP 18" | FOOT | 450 | 450 | | |
| 54200640 | PIPE CULVERTS, TYPE 1 CS, AA 15" | FOOT | 390.0 | 390.0 | | |
| 54213663 | PRECAST REINFORCED CONCRETE FLARED END SECTION 18" | EACH | 30 | 30 | | |
| 54215550 | METAL END SECTIONS 15" | EACH | 4 | 4 | | |
| 60260100 | INLETS TO BE ADJUSTED | EACH | 3 | 3 | | |
| 60603800 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | FOOT | 91 | 91 | | |
| 63500105 | DELINEATORS | EACH | 30 | 30 | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 10 | 10 | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 1 | 1 | | |
| 70100500 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 | L SUM | 1 | 1 | | |
| 70101830 | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 | L SUM | 1 | 1 | | |
| 70101835 | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22 | L SUM | 1 | 1 | | |
| * 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 96.5 | 96.5 | | |

*SPECIALTY ITEMS

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
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| NAME | DATE | |
| | | SUMMARY OF QUANTITIES |
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SCALE: VERT. DATE
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

| LOCATION OF WORK | | | | CONSTRUCTION TYPE CODE | | |
|-----------------------|-------------------------------------------------------------|-------|----------------|------------------------|--|--|
| SUMMARY OF QUANTITIES | | | | ROADWAY | | |
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | 1000 | | |
| * 72800100 | TELESCOPING STEEL SIGN SUPPORT | FOOT | 165 | 165 | | |
| * 78000100 | THERMOPLASTIC PAVEMENT MARKING, - LETTERS AND SYMBOLS | SQ FT | 111 | 111 | | |
| * 78000300 | THERMOPLASTIC PAVEMENT MARKING, - LINE 5" | FOOT | 1,624 | 1,624 | | |
| * 78000500 | THERMOPLASTIC PAVEMENT MARKING, - LINE 8" | FOOT | 374 | 374 | | |
| * 78000600 | THERMOPLASTIC PAVEMENT MARKING, - LINE 12" | FOOT | 164 | 164 | | |
| X0300626 | CURB AND GUTTER REMOVAL | FOOT | 75 | 75 | | |
| X3550500 | BITUMINOUS BASE COURSE, SUPERPAVE, 8" | SQ YD | 41 | 41 | | |
| X4066414 | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 | TON | 1,577 | 1,577 | | |
| X4066765 | LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50 | TON | 1,051 | 1,051 | | |
| Z0007800 | BUMPER BLOCKS | EACH | 18 | 18 | | |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 | 1 | | |
| * X0325056 | FURNISH AND INSTALL POND LINER | SQ YD | 3571 | 3571 | | |
| * X0325057 | DRILLING AND INSTALLING WATER WELL | EACH | 1 | 1 | | |

*SPECIALTY ITEMS

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
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| TREE REMOVAL SCHEDULE | | | |
|--------------------------------------------|-------------------------------|------------------------------|---------------------------|
| LOCATION (STA, OFFSET or STA TO STA) | TREE REMOVAL 6" TO 15"D | TREE REMOVAL > 15" DIA | TREE REMOVAL (ACRE) |
| <u>SAND RIDGE ROAD</u> | | | |
| STA. 20+12.33 TO STA. 33+00.00 | - | - | 1.24 |
| STA. 33+00.00 TO STA. 48+00.00 | - | - | 1.67 |
| STA. 48+00.00 TO STA. 63+00.00 | - | - | 1.85 |
| STA. 63+00.00 TO STA. 78+00.00 | - | - | 1.9 |
| STA. 78+00.00 TO STA. 93+00.00 | - | - | 1.64 |
| STA. 93+00.00 TO STA. 108+00.00 | - | - | 1.68 |
| STA. 108+00.00 TO STA. 123+00.00 | - | - | 1.66 |
| STA. 123+00.00 TO STA. 138+00.00 | - | - | 1.77 |
| STA. 138+00.00 TO STA. 150+00.00 | - | - | 1.12 |
| <u>SAND RIDGE ROAD BORROW PIT</u> | | | |
| STA. 202+71.36 @ 116.47' RT | 6 | - | - |
| STA. 202+73.67 @ 93.26' RT | 6 | - | - |
| <u>SAND RIDGE ROAD BORROW PIT</u> | | | |
| STA. 10+70.85 @ 15.42' LT | 9 | - | - |
| STA. 11+00.83 @ 50.52' RT | 12 | - | - |
| STA. 11+52.21 @ 48.88' RT | 13 | - | - |
| STA. 11+52.78 @ 164.41' LT | 12 | - | - |
| STA. 11+56.61 @ 159.40' LT | 10 | - | - |
| STA. 11+59.70 @ 16.03' LT | - | - | - |
| STA. 11+60.38 @ 1.44' LT | 8 | - | - |
| STA. 11+61.77 @ 73.13' LT | - | 17 | - |
| STA. 12+23.96 @ 172.35' LT | 7 | - | - |
| STA. 12+88.02 @ 40.78' LT | 9 | - | - |
| STA. 13+31.28 @ 4.33' LT | 6 | - | - |
| STA. 13+35.70 @ 1.00' RT | 7 | - | - |
| STA. 13+46.42 @ 135.72' LT | 10 | - | - |
| STA. 13+66.08 @ 52.21' LT | 10 | - | - |
| STA. 13+66.32 @ 52.39' LT | 9 | - | - |
| STA. 13+71.64 @ 31.33' LT | - | - | - |
| TOTAL = | 134 | 17 | 14.53 |

| EARTHWORK SCHEDULE | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|------------------------------|----------------------------|--------------------------|
| LOCATION (STATION TO STATION) | EARTH EXCAV. (CU YD) | EMBANK. (CU YD) | EMBANK. X 1.25 (CU YD) | WASTE (BOR.) (CU YD) | ACC. W/(B) (CU YD) |
| <u>SAND RIDGE ROAD</u> | | | | | |
| STA 20+12.33 TO STA 148+50.00 | 8484 | 12783 | 15979 | (7495) | -7495 |
| <u>WETLAND MITIGATION POND</u> | | | | | |
| STA 200+20 TO STA 203+85.38 | 4149 | 30 | 37 | 4112 | 3383 |
| SUB-TOTAL= | 12633 | 12813 | 16016 | (3383) | 3383 |
| <u>BORROW PIT (EST.)</u> | | | | | |
| STA 10+00.00 TO STA 14+00.00 | 3383 | 0 | 0 | (3383) | 0 |
| TOTAL= | 16016 | 12813 | 16016 | 0 | 0 |
| NOTES: | | | | | |
| <ul style="list-style-type: none"> ●THE ABOVE SCHEDULE CONSIDERS A SHRINKAGE OF 20% TO DETERMINE THE AMOUNT OF WASTE OR BORROW REQUIRED(SHRKAGE FACTOR = 1 / (1.0 - 0.2) = 1.25). ●ALL EXCAVATION WILL BE REQUIRED TO BE USED AS EMBANKMENT BY THE ENGINEER AND APPROVED BY IDNR. ●NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR HAULING OR COMPACTING THE MATERIAL. ●A BORROW SITE ON THIS IDNR SITE HAS BEEN DESIGNATED TO BE USED TO OBTAIN THE NECESSARY ADDITIONAL MATERIAL REQUIRED FOR EMBANKMENT. THE DETAILS IN THE PLANS SHOWS CONTOURS OF A FUTURE POND. THE CONTRACTOR SHALL ONLY EXCAVATE THE AMOUNT OF MATERIAL NEEDED FOR EMBANKMENT ON THIS PROJECT. ●THE NECESSARY EXCAVATION, HAULING, AND EMBANKMENT OF THE MATERIAL FROM THE BORROW SITE WILL BE PAID FOR AT THE CONTRACT UNIT BID PRICE PER CUBIC YARD FOR "EARTH EXCAVATION." | | | | | |

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

| SEEDING SCHEDULE | | | | | | | |
|---------------------------------------------------|------------------------------|-------------------------------------------|---------------------------|------------------------|-------------------------|------------------------|-----------------------------|
| LOCATION (STATION TO STATION) | SEEDING CLASS 2 (ACRE) | SEEDING CLASS 4 (SPECIAL) (ACRE) | AGRICUL. LIME (TON) | NIT. FERT. (LBS) | PHOS. FERT. (LBS) | POT. FERT. (LBS) | MULCH METHOD 2 (ACRE) |
| <u>SAND RIDGE ROAD & HUNTER PARKING AREAS</u> | | | | | | | |
| LT 20+12.33 TO LT 148+50.00 FORESLOPE | 2.1 | | 4.2 | 189 | 189 | 189 | 2.1 |
| LT 20+12.33 TO LT 148+50.00 BACKSLOPE | | 1.0 | 2.0 | 90 | 90 | 90 | 2.0 |
| RT 20+12.33 TO RT 148+50.00 FORESLOPE | 2.0 | | 4.0 | 180 | 180 | 180 | 2.0 |
| RT 20+12.33 TO RT 148+50.00 BACKSLOPE | | 0.8 | 1.6 | 72 | 72 | 72 | 1.6 |
| <u>BORROW PIT AREA</u> | | | | | | | |
| | 1.4 | | 2.8 | 126 | 126 | 126 | 2.8 |
| <u>WETLAND MITIGATION POND</u> | | | | | | | |
| | | 4.4 | 8.8 | 396 | 396 | 396 | 0.0 |
| TOTAL = | 5.5 | 6.3 | 23.4 | 1053 | 1053 | 1053 | 10.5 |

| ESTIMATED QUANTITIES | | |
|--------------------------------------|-------|----------------|
| PAY ITEMS | UNIT | TOTAL QUANTITY |
| EARTH EXCAVATION FOR EROSION CONTROL | CU YD | 125 |
| TEMPORARY DITCH CHECKS | EACH | 68 |
| FENCE (EROSION CONTROL) | FOOT | 1,287 |
| PAVEMENT PATCHING TYPE II, 10" | SQ YD | 100 |
| SEEDING, CLASS 7 (EROSION CONTROL) | ACRE | 10 |
| MULCH, METHOD 1 (EROSION CONTROL) | ACRE | 10 |

| PERMANENT EROSION CONTROL SCHEDULE | | |
|-----------------------------------------------|-----------------|---------------------------------------|
| LOCATION - PLACEMENT (STATION TO STATION) | AREA (SQ YD) | HEAVY DUTY EXCELS. BLANKET (SQ YD) |
| <u>SAND RIDGE ROAD & HUNTER PARKING</u> | | |
| STA 25+00 AROUND ENDS OF CULV. | 13 | 13 |
| STA 35+00 AROUND ENDS OF CULV. | 13 | 13 |
| STA 43+00 AROUND ENDS OF CULV. | 13 | 13 |
| RT STA 56+56.32 AROUND ENDS OF CULV. | 13 | 13 |
| LT STA 56+90 TO LT STA 61+00 - DITCH LINING | 410 | 410 |
| RT STA 56+90 TO RT STA 61+00 - DITCH LINING | 396 | 396 |
| LT STA 64+30 TO LT STA 67+10 - DITCH LINING | 280 | 280 |
| RT STA 63+30 TO RT STA 67+10 - DITCH LINING | 380 | 380 |
| LT STA 75+30 TO LT STA 77+30 - DITCH LINING | 200 | 200 |
| RT STA 75+30 TO RT STA 77+30 - DITCH LINING | 200 | 200 |
| STA 78+00 AROUND ENDS OF CULV. | 13 | 13 |
| LT STA 79+01.66 AROUND ENDS OF CULV. | 13 | 13 |
| LT STA 81+40 TO LT STA 84+00 - DITCH LINING | 260 | 260 |
| RT STA 81+40 TO RT STA 84+00 - DITCH LINING | 176 | 176 |
| STA 89+00 AROUND ENDS OF CULV. | 13 | 13 |
| STA 95+00 AROUND ENDS OF CULV. | 13 | 13 |
| STA 101+00 AROUND ENDS OF CULV. | 13 | 13 |
| STA 110+00 AROUND ENDS OF CULV. | 13 | 13 |
| STA 116+00 AROUND ENDS OF CULV. | 13 | 13 |
| STA 121+00 AROUND ENDS OF CULV. | 13 | 13 |
| RT STA 121+76.00 AROUND ENDS OF CULV. | 13 | 13 |
| LT STA 122+50 TO LT STA 124+70 - DITCH LINING | 220 | 220 |
| RT STA 122+00 TO RT STA 124+70 - DITCH LINING | 270 | 270 |
| STA 135+00 AROUND ENDS OF CULV. | 13 | 13 |
| STA 145+00 AROUND ENDS OF CULV. | 13 | 13 |
| STA 176+70 AROUND ENDS OF CULV. | 13 | 13 |
| TOTAL = | | 3000 |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT. DATE
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| AGGREGATE & BITUMINOUS RESURFACING SCHEDULE | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------|--------------------------|-----------------------|----------------------------|------------------------------------|-----------------------------------------|---------------------|
| LOCATION | BIT. MATERIALS (P.C.) (TON) | AGG (P.C.) (TON) | BIT. BASE CSE 8" (SQ YD) | LEVELING BINDER (TON) | BIT. CONC. SURF. CSE (TON) | AGG SURF. CSE T-A 3" (CA 06) (TON) | SUB-BASE GRAN. MAT T-B 5" (CA 02) (TON) | AGG SHLDS T-B (TON) |
| <u>SAND RIDGE ROAD</u> STA 20+12.33 TO STA 148+50 | | | | 1,051.3 | | 6,454.9 | 10,762.4 | |
| HUNTER PARKING AREA NO. 1 | | | | | | 110.9 | 184.9 | |
| HUNTER PARKING AREA NO. 2 | | | | | | 67.7 | 112.8 | |
| HUNTER PARKING AREA NO. 3 | | | | | | 48.7 | 81.2 | |
| HUNTER PARKING AREA NO. 4 | | | | | | 118.1 | 196.9 | |
| HUNTER PARKING AREA NO. 5 | | | | | | 100.7 | 167.8 | |
| HUNTER PARKING AREA NO. 6 | | | | | | 56.7 | 94.5 | |
| <u>JAKE WOLF FISH HATCHERY RD.</u> <u>INCLUDING PARKING LOT AND</u> <u>SOUTH ENTRANCE RD.</u> STA 1+25.00 TO STA 60+02.96 LT STA 5+68.32 LT STA 6+37.71 | 7.2 | 26.8 | | | 1,577.0 | | | 215.5 |
| | | | 23 | | | | | |
| | | | 18 | | | | | |
| TOTAL = | 7.2 | 26.8 | 41 | 1,051.3 | 1,577.0 | 6,957.7 | 12,324 | 215.5 |

| CURB AND GUTTER REMOVAL | |
|------------------------------------------------------------------|------------------------------|
| PARKING AREAS | CURB AND GUTTER REMOVAL (LF) |
| <u>JAKE WOLF FISH HATCHERY VISITOR PARKING</u> LT STA 5+68.32 | 38 |
| LT STA 6+37.71 | 37 |
| TOTAL = | 75 |

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| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF QUANTITIES SCALE: VERT. _____ HORIZ. _____ DATE _____ | DRAWN BY _____ CHECKED BY _____ |
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| BITUMINOUS SURFACE TREATMENT, A-3 | | | | |
|---------------------------------------------------------|---------------------------------------|---------------------------------------------------|-------------------------------|------------------------------|
| LOCATION | BIT. MAT. (PRIME COAT) (TON) | BIT. MAT. (COVER AND SEAL COAT) (TON) | COVER COAT AGG (TON) | SEAL COAT AGG (TON) |
| <u>SAND RIDGE ROAD</u> STA 20+12.33 TO STA 185+50.12 | 53.9 | 161.7 | 756.0 | 378.0 |
| HUNTER PARKING AREA NO. 1 | 1.0 | 2.8 | 13.0 | 6.5 |
| HUNTER PARKING AREA NO. 2 | 0.6 | 1.7 | 8.0 | 4.0 |
| HUNTER PARKING AREA NO. 3 | 0.4 | 1.2 | 5.7 | 2.9 |
| HUNTER PARKING AREA NO. 4 | 1.0 | 3.0 | 13.8 | 6.9 |
| HUNTER PARKING AREA NO. 5 | 0.8 | 2.5 | 11.8 | 5.9 |
| HUNTER PARKING AREA NO. 6 | 0.5 | 1.4 | 6.6 | 3.3 |
| TOTAL = | 58.2 | 174.3 | 814.9 | 407.5 |

| PIPE CULVERT, END SECTION, DELINEATOR, & INLET SCHEDULE | | | | | | |
|---------------------------------------------------------|---------------------------------------------|------------------------------|------------------------|-------------------------|------------------------------------------|----------------------------|
| LOCATION | PIPE CULVERTS | | END SEC | | DELIN. S. -WHITE CRYSTAL (EACH) | ADJUST INLETS (EACH) |
| | TYPE 1-15" CS, AA (FOOT) | TYPE 1-18" RCCP (FOOT) | METAL 15" (EACH) | PRC FL 18" (EACH) | | |
| | <u>SAND RIDGE ROAD & HUNTER PARKING</u> | | | | | |
| STA 25+00 | | 30.0 | | 2 | 2 | |
| RT STA 26+79.45 | 44.0 | | | | | |
| STA 35+00 | | 30.0 | | 2 | 2 | |
| RT STA 42+00 | 49.0 | | | | | |
| STA 43+00 | | 30.0 | | 2 | 2 | |
| LT STA 43+36.16 | 48.0 | | | | | |
| LT STA 54+76.53 | 44.0 | | | | | |
| RT STA 56+56.32 | 50.0 | | 2 | | | |
| STA 57+00 | | 30.0 | | 2 | 2 | |
| STA 67+00 | | 30.0 | | 2 | 2 | |
| STA 78+00 | | 30.0 | | 2 | 2 | |
| LT STA 79+01.66 | 50.0 | | | | | |
| RT STA 82+28.77 | 55.0 | | | | | |
| STA 89+00 | | 30.0 | | 2 | 2 | |
| STA 95+00 | | 30.0 | | 2 | 2 | |
| STA 101+00 | | 30.0 | | 2 | 2 | |
| STA 110+00 | | 30.0 | | 2 | 2 | |
| STA 116+00 | | 30.0 | | 2 | 2 | |
| STA 121+00 | | 30.0 | | 2 | 2 | |
| RT STA 121+76.00 | 50.0 | | 2 | | | |
| STA 135+00 | | 30.0 | | 2 | 2 | |
| STA 145+00 | | 30.0 | | 2 | 2 | |
| STA 176+70 | | 30.0 | | 2 | 2 | |
| <u>JAKE WOLF FISH HATCHERY PARKING AREA</u> | | | | | | |
| STA. 5+16.17 @ 27.85' LT | | | | | | 1 |
| STA. 5+93.04 @ 26.09' RT | | | | | | 1 |
| STA. 6+84.74 @ 25.41' RT | | | | | | 1 |
| TOTAL = | 390.0 | 450.0 | 4 | 30 | 30 | 3 |

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF QUANTITIES
 SCALE: VERT. DRAWN BY
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 DATE

SIGNING SCHEDULE

| LOCATION: SIGNS SHALL BE LOCATED AT THE FOLLOWING INTERSECTIONS IN CONJUNCTION WITH THE SIGN LOCATIONS MAP. | MUTCD NO. | MESSAGE | SIZE IN x IN | SIGN PANELS T-1 (SQ FT) | TELE. SIGN SUPPORT (FOOT) |
|-------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|-----------------|------------------------------------------|--------------------------------------------|
| 1. GOOFY RIDGE BLACKTOP AND SAND RIDGE RD. | | BRAKE FOR WILDLIFE | 36 x 36 | 9.00 | 17.0 |
| | W 13-1A | 20 MPH | 24 x 24 | 4.00 | |
| 2. GOOFY RIDGE BLACKTOP AND PINE VALLEY DR. | | BRAKE FOR WILDLIFE | 36 x 36 | 9.00 | 17.0 |
| | W 13-1A | 20 MPH | 24 x 24 | 4.00 | |
| 3. GOOFY RIDGE BLACKTOP AND CACTUS DR. | | BRAKE FOR WILDLIFE | 36 x 36 | 9.00 | 17.0 |
| | W 13-1A | 20 MPH | 24 x 24 | 4.00 | |
| 4. SAND RIDGE RD. EAST ENTRANCE TO FOREST | | BRAKE FOR WILDLIFE | 36 x 36 | 9.00 | 17.0 |
| | W 13-1A | 20 MPH | 24 x 24 | 4.00 | |
| 5. FOREST CITY RD. (TR 13) EAST ENTRANCE TO FOREST | | BRAKE FOR WILDLIFE | 36 x 36 | 9.00 | 17.0 |
| | W 13-1A | 20 MPH | 24 x 24 | 4.00 | |
| 6. BISHOP RD. (TR 134) AND SOUTH ENTRANCE TO FOREST | | BRAKE FOR WILDLIFE | 36 x 36 | 9.00 | 17.0 |
| | W 13-1A | 20 MPH | 24 x 24 | 4.00 | |
| SAND RIDGE ROAD LT STA 20+65.00 | R1-1(3030) | STOP | 30 x 30 | 6.25 | 15.0 |
| LT STA 28+00.00 | W3-1a(3030) | STOP AHEAD | 30 x 30 | 6.25 | 15.0 |
| JAKE WOLF FISH HATCHERY RT STA 4+16.01 RT STA 4+16.01 | R7-8(1218) | HANDICAP | 12 x 18 | 1.50 | 11.0 |
| | R7-I101(612) | \$100 FINE | 6 x 12 | 0.50 | |
| RT STA 4+37.26 RT STA 4+37.26 | R7-8(1218) | HANDICAP | 12 x 18 | 1.50 | 11.0 |
| | R7-I101(612) | \$100 FINE | 6 x 12 | 0.50 | |
| RT STA 4+53.32 RT STA 4+53.32 | R7-8(1218) | HANDICAP | 12 x 18 | 1.50 | 11.0 |
| | R7-I101(612) | \$100 FINE | 6 x 12 | 0.50 | |
| TOTAL = | | | | 96.50 | 165.0 |

NOTES: ALL POST UNLESS OTHERWISE NOTED SHALL MEET THE REQUIREMENTS OF SECTION 728 OF THE STANDARD SPECIFICATIONS. EACH POST SHALL ALSO INCLUDE A 2 1/4" x 2 1/4" x 4' BASE DRIVEN INTO THE GROUND EXCEPT THE LAST 2".

ALL POST SHALL BE OFFSET FROM EDGE OF THE PAVEMENT BY 18'. SEE STANDARD DRAWINGS FOR POST IN PAVEMENT.

PAVEMENT MARKING SCHEDULE

| LOCATION | THERMO. PAVT. MK LINE 5" (YELLOW) (FOOT) | THERMO. PAVT. MK. LINE 8" (YELLOW) (FOOT) | THERMO. PAVT. MK. LINE 12" (WHITE) (FOOT) | THERMO. PAVT. MK. L & S (WHITE) (SQ FT) |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|
| JAKE WOLF FISH HATCHERY PARKING AREA STA 1+25.06 TO STA 10+85.44 | 1624 | 374 | 164 | 111.3 |
| TOTAL = | 1624 | 374 | 164 | 111 |
| NOTE: LETTERS & SYMBOLS SMALL DIRECTIONAL ARROW = 6.5 SQ FT HANDICAP SYMBOL = 4.6 SQ FT | | | | |

BUMPER BLOCK SCHEDULE (INCIDENTAL TO EARTH EXC.)

| PARKING AREAS | BUMPER BLOCK REMOVAL (EACH) | BUMPER BLOCK (NEW) (EACH) |
|-----------------------------------------|--------------------------------------|------------------------------------|
| JAKE WOLF FISH HATCHERY VISITOR PARKING | 18 | 18 |
| TOTAL = | 18 | 18 |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT.
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DATE

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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| --- | --- | MASON | 96 | 13 |
| STA. ----- | | TO STA. ----- | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

- * PARK ROADS
- ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004

Z242 - NGS BM DISK IN CLAY TILE
 @ SE QUAD INT GOOFOY RIDGE BLKTP
 (2300N) & TR 2300 E NAVD88 - 500.56

BM 500: SET 60d SPIKE NAIL IN 26" TREE,
 S SIDE OF SAND RIDGE ROAD, 0.17 MILE EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 491.983

BM 501: SET 60d SPIKE NAIL IN 12" TREE,
 S SIDE OF SAND RIDGE ROAD, 0.329 MILE EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 491.983

BM 502: SET 60d SPIKE NAIL IN BACK SIDE 6" TREE,
 N SIDE OF SAND RIDGE ROAD, 0.493 MILE EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 496.621

BM 503: SET 60d SPIKE NAIL IN 24" TREE,
 S SIDE OF SAND RIDGE ROAD, 0.654 MILE EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 499.679

BM 504: SET 60d SPIKE NAIL IN 17" DBL FK TREE,
 S SIDE OF SAND RIDGE ROAD, 0.768 MILE EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 499.864

BM 505: SET 60d SPIKE NAIL IN 13" TREE,
 S SIDE OF SAND RIDGE ROAD, 0.910 MILE EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 496.140

BM 506: SET 60d SPIKE NAIL IN 8" TREE,
 N SIDE OF SAND RIDGE ROAD, 1.051 MILES EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 511.989

BM 507: SET RR SPIKE (FLUSH) IN STUMP,
 NE QUAD OF WALKER'S PRIVATE DRIVE & SAND RIDGE
 ROAD, 1.164 MILES EAST ALONG SAND RIDGE ROAD
 FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 497.031

BM 508: SET 60d SPIKE NAIL IN 16" PINE TREE,
 S SIDE OF SAND RIDGE ROAD, 1.194 MILES EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 498.731

BM 509: SET RR SPIKE IN 23" TREE,
 S SIDE OF SAND RIDGE ROAD, 1.325 MILES EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 509.134

BM 510: SET RR SPIKE IN 24" STUMP,
 N SIDE OF SAND RIDGE ROAD, 1.583 MILES EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 510.729

BM 511: SET 60d SPIKE NAIL IN BACK SIDE 9" TREE,
 S SIDE OF SAND RIDGE ROAD, 1.726 MILES EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 503.376

BM 512: SET 60d SPIKE NAIL IN 35" TREE,
 S SIDE OF SAND RIDGE ROAD, 1.897 MILES EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 504.399

BM 513: SET CHSLD SQUARE ON CONC PAD FOR
 WATER PUMP, NW COR OF PAD, LOCATED IN THE
 NW QUAD OF HORSEMAN'S PARK, 2.009 MILES EAST
 ALONG SAND RIDGE ROAD FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 = 502.303

BM 514: SET 60d SPIKE NAIL IN 24" TREE,
 S SIDE OF SAND RIDGE ROAD, 2.165 MILES EAST
 FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 509.657

BM 515: SET 60d SPIKE NAIL IN 17" TREE,
 S SIDE OF SAND RIDGE ROAD, 2.382 MILES EAST
 FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 502.840

BM 516: SET 60d SPIKE NAIL IN SIGN POST,
 "SERVICE RD ONLY" / "RD GATED AHEAD",
 S SIDE OF SAND RIDGE ROAD, 2.52 MILES EAST
 FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 - 495.536

BM 517: SET CHSLD SQUARE AT SE COR OF MISC
 CONC PAD AT SMALL BRICK BLDG, 2.774 MILES EAST
 FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 = 499.766

BM 518: SET CHSLD SQUARE AT SE COR OF MISC
 CONC PAD AT SMALL BRICK BLDG, 2.952 MILES EAST
 FROM JCT GOOFOY RIDGE BLKTP
 NAVD88 = 495.869

BM 519: SET CHSLD SQUARE AT NW COR OF
 CONC PAD FOR AGS, S OF JCT TR2600E/2300N
 (FOREST CITY RD, CACTUS DR AND SAND RIDGE RD)
 NAVD88 = 500.181

BM 520: SET 60d SPIKE IN POWER POLE,
 AT NW QUAD OF CACTUS RD, HAND TRAP AND ARCHERY RD,
 0.653 MILES NORTH ALONG CACTUS RD
 FROM JCT SAND RIDGE BLKTP
 NAVD88 - 509.117

BM USGS 11DLW: BENCH MARK DISK AT SW QUAD OF
 INT OF CACTUS RD AND OAK CAMP RD(2400N), 1.023 MILE
 NORTH FROM JCT OF SAND RIDGE RD
 NAVD88 - 504.085

BM 521: SET 60d SPIKE NAIL IN 18" PINE TREE,
 AT NW QUAD OF INT OF CACTUS RD AND PINE VALLEY DR,
 0.02 MILES WEST FROM JCT
 NAVD88 - 497.248

BM 522: SET 60d SPIKE NAIL IN 12" PINE TREE,
 SOUTH SIDE OF PINE VALLEY DR, 0.174 MILES WEST
 OF JCT CACTUS DR
 NAVD88 - 515.485

BM 523: SET 60d SPIKE NAIL IN BACK SIDE OF 9" TREE,
 SOUTH SIDE OF PINE VALLEY DR, 0.338 MILES WEST
 OF JCT CACTUS DR
 NAVD88 - 523.903

BM 524: SET 60d SPIKE NAIL IN BACK SIDE OF 9" TREE,
 SOUTH SIDE OF PINE VALLEY DR, 0.485 MILES WEST
 OF JCT CACTUS DR
 NAVD88 - 505.997

BM 525: SET CHSLD "X" IN FACE OF EAST CONC BLDG #8
 W SIDE OF PINE VALLEY DR, 0.62 MILES WEST THEN
 N FROM JCT OF CACTUS RD
 NAVD88 = 499.650

BM 526: SET CHSLD "X" IN FACE OF EAST CONC BLDG #7
 W SIDE OF PINE VALLEY DR, 0.724 MILES WEST THEN
 N FROM JCT OF CACTUS RD
 NAVD88 = 499.570

BM 527: SET CHSLD "X" IN FACE OF EAST CONC BLDG #6
 W SIDE OF PINE VALLEY DR, 0.820 MILES WEST THEN
 N FROM JCT OF CACTUS RD
 NAVD88 = 503.586

BM 528: SET CHSLD "X" IN FACE OF EAST CONC BLDG #5
 (WELL PUMP HOUSE) W SIDE OF PINE VALLEY DR,
 0.938 MILES WEST THEN N FROM JCT OF CACTUS RD
 NAVD88 = 503.384

BM 529: SET CHSLD SQUARE IN CENTER OF EAST EDGE OF
 MISC CONC SLAB FOR DIESAL GAS TANK, W SIDE OF PINE
 VALLEY DR, 1.053 MILES WEST THEN N FROM JCT CACTUS RD
 NAVD88 = 502.322

BM 530: SET 60d SPIKE NAIL IN 15" PINE TREE,
 WEST SIDE OF PINE VALLEY DR, 1.264 MILES WEST
 THEN N FROM JCT CACTUS DR
 NAVD88 - 502.874

BM 531: SET CHSLD SQUARE IN SW EDGE OF ROUND CONC
 FOR ORANGE ELECTRIC JCT BOX
 AT SW QUAD OF GOOFOY RIDGE BLKTP AND PINE VALLEY DR
 NAVD88 = 505.036

BM 532: SET 60d SPIKE NAIL IN POWER POLE,
 WEST SIDE OF ENTRANCE, N SIDE OF GOOFOY RIDGE BLKTP(2500N)
 0.544 MILES WEST OF FISH HATCHERY RD
 NAVD88 - 534.707

BM 533: SET 60d SPIKE NAIL IN POWER POLE,
 NORTH SIDE OF GOOFOY RIDGE BLKTP(2500N)
 0.807 MILES WEST OF FISH HATCHERY RD
 NAVD88 - 506.970

W238: NGS BENCH MARK DISK IN CONC
 1.2 MILES WEST OF FISH HATCHERY RD AT THE
 NW QUAD OF GOOFOY RIDGE BLKTP(2500N)
 AND TR2400E, +-175 FT N OF JCT
 NAVD88 - 501.46

BM 534: SET 60d SPIKE NAIL IN BACK SIDE
 OF 31" TREE, 508 FT EAST OF JUNCTION
 2400N(ENTRANCE TO OAK CAMPGROUNDS) / 2600E CACTUS DR,
 S SIDE OF ROCK RD

BM 535: SET 60d SPIKE NAIL IN BACK OF
 10" EVERGREEN, 950 FT WEST ALONG ARCHERY RANGE RD
 FROM CACTUS DR TO BM ON S SIDE RD AT GATED FIRE LANE

BM 536: SET 60d SPIKE NAIL IN 10" EVERGREEN
 AT NW CORNER OF ARCHERY PARKING LOT,
 1660 WEST OF CACTUS DR

BM 537: SET 60d SPIKE NAIL IN 18" TREE,
 NORTH SIDE OF SAND RIDGE RD
 0.27 MILES EAST FROM JCT WITH CACTUS RD(2600E)
 NAVD88 - 498.350

BM 538: SET 60d SPIKE NAIL IN 32" DBL FK TREE,
 SOUTH SIDE OF SAND RIDGE RD
 0.57 MILES EAST FROM JCT WITH CACTUS RD
 NAVD88 - 505.395

BM 539: SET 60d SPIKE NAIL IN 13" TREE,
 SOUTH SIDE OF SAND RIDGE RD
 0.85 MILES EAST FROM JCT WITH CACTUS RD
 NAVD88 - 503.392

BM 540: SET 60d SPIKE NAIL IN 16" PINE TREE,
 AT WILDLIFE PARKING LOT #2, NORTH SIDE OF SAND RIDGE RD
 1.01 MILES EAST FROM JCT WITH CACTUS RD
 NAVD88 - 494.557

BM 541: SET 60d SPIKE NAIL IN 15" EVERGREEN TREE,
 SOUTH ALONG FOREST CITY RD, 0.275 MILES FROM "T"
 INT OF FOREST CITY RD AND SAND RIDGE RD TO STA ON RT,
 WEST SIDE OF ROAD

BM 542: SET 60d SPIKE NAIL ON WEST SIDE OF TRAIL X-ING SIGN,
 ON WEST SIDE OF RD, 0.362 MILES SOUTH OF "T"
 INT OF FOREST CITY RD AND SAND RIDGE RD,
 ALONG FOREST CITY RD

BM 543: SET RR SPIKE IN 21" TREE STUMP,
 ON NORTH SIDE OF RD AT PARKING LOT #1,
 0.767 MILES S ALONG FOREST CITY RD FROM "T" INT
 OF FOREST CITY RD AND SAND RIDGE RD

BM 544: SET 60d SPIKE NAIL IN 24" DECIDUOUS TREE,
 ON WEST SIDE OF RD, 0.234 MILES SOUTH ALONG
 BISHOP RD FROM "T" INT OF FOREST CITY RD AND BISHOP RD

BM 545: SET 60d SPIKE NAIL IN 20" DECIDUOUS TREE,
 ON EAST SIDE OF RD, 0.508 MILES SOUTH ALONG
 BISHOP RD FROM "T" INT OF FOREST CITY RD AND BISHOP RD

BM 546: SET 60d SPIKE NAIL IN 15" EVERGREEN TREE,
 ON EAST SIDE OF RD, 0.807 MILES SOUTH ALONG
 BISHOP RD FROM "T" INT OF FOREST CITY RD AND BISHOP RD

BM 547: SET 60d SPIKE NAIL IN POWER POLE,
 ON SOUTH SIDE OF 2140N, 0.104 MILES WEST OF "T"
 INT OF BISHOP RD AND 2140N, ALONG 2140N

BM 548: SET 60d SPIKE NAIL IN 42" DECIDUOUS TREE,
 ON EAST SIDE OF RD, ALONG N BISHOP RD,
 0.068 MILES SOUTH OF "T" INT OF 2140N AND N BISHOP RD

BM 549: SET 60d SPIKE NAIL IN 36" DECIDUOUS TREE,
 ON EAST SIDE OF RD, ALONG N BISHOP RD,
 0.280 MILES SOUTH OF "T" INT OF 2140N AND N BISHOP RD

BM 550: SET 60d SPIKE NAIL IN 20" DECIDUOUS TREE,
 ON EAST SIDE OF RD, ALONG N BISHOP RD,
 0.691 MILES SOUTH OF "T" INT OF 2140N AND N BISHOP RD

BM 551: FOUND RR SPIKE IN 27" DECIDUOUS TREE,
 ON SOUTH SIDE OF 2090N, AT INT OF N BISHOP RD AND 2090N,
 0.884 MILES SOUTH OF "T" INT OF 2140N AND N BISHOP RD

BM 552: SET 60d SPIKE NAIL IN N SIDE OF POWER POLE,
 ON NORTH SIDE OF 2080N, GOING WEST FROM INT SIGN
 OF 2080N AND N BISHOP RD AT 0.433 MILES

BM 553: SET 60d SPIKE NAIL IN POWER POLE,
 ON EAST SIDE OF ROAD, 0.075 MILES HEADING SOUTH
 ON 2450E FROM "T" INT OF 2450E AND 2080N

BM 554: CHISELED SQUARE IN SE CORNER OF
 GAS PUMP FOUND AT RANGER STATION

BM 555: SET CHISELED SQUARE IN NW CORNER
 OF SIDEWALK FOR EAST BATHROOMS, NEAR MAIN
 ENTRANCE FOR PINE CAMPGROUNDS

BM 556: SET CHISELED SQUARE IN NW CORNER
 OF SIDEWALK FOR SOUTH BATHROOMS
 IN PINE CAMPGROUNDS

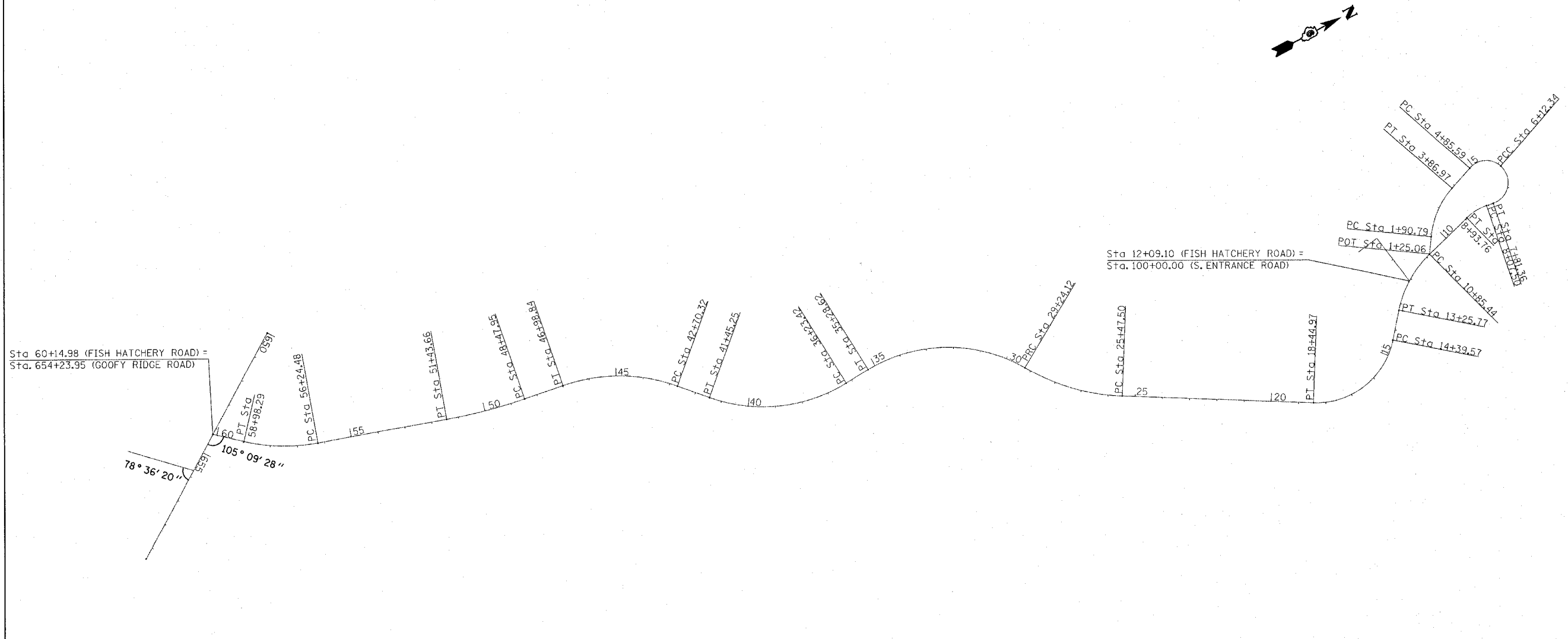
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ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHMARKS

SCALE: VERT. HORIZ.
 DATE: _____ DRAWN BY: _____
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 2/10/2004
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| <p>EXIST. CURVE 729 PI STA. = 57+63.28 $\Delta = 23^\circ 09' 28''$ (RT) $D = 8^\circ 27' 28''$ $R = 677.44'$ $T = 138.80'$ $L = 273.81'$ $E = 14.07'$ $e = 3\%$ P.C. STA. = 56+24.48 P.T. STA. = 58+98.29</p> | <p>EXIST. CURVE 728 PI STA. = 49+96.09 $\Delta = 8^\circ 40' 12''$ (RT) $D = 2^\circ 55' 55''$ $R = 1,954.23'$ $T = 148.14'$ $L = 295.71'$ $E = 5.61'$ $e = 2.2\%$ P.C. STA. = 48+47.95 P.T. STA. = 51+43.66</p> | <p>EXIST. CURVE 727 PI STA. = 44+93.02 $\Delta = 38^\circ 30' 04''$ (LT) $D = 8^\circ 59' 04''$ $R = 637.71'$ $T = 222.71'$ $L = 428.53'$ $E = 37.77'$ $e = 4.5\%$ P.C. STA. = 42+70.32 P.T. STA. = 46+98.84</p> | <p>EXIST. CURVE 726 PI STA. = 39+03.15 $\Delta = 51^\circ 07' 45''$ (RT) $D = 9^\circ 47' 53''$ $R = 584.77'$ $T = 279.73'$ $L = 521.83'$ $E = 63.46'$ $e = 4.5\%$ P.C. STA. = 36+23.42 P.T. STA. = 41+45.25</p> | <p>EXIST. CURVE 725 PI STA. = 32+59.56 $\Delta = 61^\circ 49' 15''$ (LT) $D = 10^\circ 13' 37''$ $R = 560.25'$ $T = 335.44'$ $L = 604.49'$ $E = 92.74'$ $e = 4.8\%$ P.C. STA. = 29+24.12 P.T. STA. = 35+28.62</p> | <p>EXIST. CURVE 723 PI STA. = 27+39.72 $\Delta = 28^\circ 14' 50''$ (RT) $D = 7^\circ 30' 01''$ $R = 763.93'$ $T = 192.22'$ $L = 376.62'$ $E = 23.81'$ $e = 4\%$ P.C. STA. = 25+47.50 P.T. STA. = 29+24.12</p> | <p>EXIST. CURVE 721 PI STA. = 16+84.48 $\Delta = 80^\circ 59' 24''$ (RT) $D = 19^\circ 58' 40''$ $R = 286.80'$ $T = 244.90'$ $L = 405.40'$ $E = 90.34'$ $e = 6\%$ P.C. STA. = 14+39.57 P.T. STA. = 18+44.97</p> | <p>EXIST. CURVE 736 PI STA. = 12+09.35 $\Delta = 34^\circ 23' 04''$ (LT) $D = 14^\circ 18' 24''$ $R = 400.48'$ $T = 123.91'$ $L = 240.34'$ $E = 18.73'$ $e = \text{NONE}$ P.C. STA. = 10+85.44 P.T. STA. = 13+25.77</p> | <p>EXIST. CURVE 735 PI STA. = 8+51.36 $\Delta = 25^\circ 33' 59''$ (LT) $D = 29^\circ 38' 20''$ $R = 193.31'$ $T = 43.86'$ $L = 86.26'$ $E = 4.91'$ $e = \text{NONE}$ P.C. STA. = 8+07.50 P.T. STA. = 8+93.76</p> | <p>EXIST. CURVE 733 PI STA. = 5+66.29 $\Delta = 90^\circ 00' 00''$ (RT) $D = 71^\circ 00' 17''$ $R = 80.69'$ $T = 80.69'$ $L = 169.02'$ $E = 33.42'$ $e = \text{NONE}$ P.C. STA. = 4+85.59 P.T. STA. = 6+12.34</p> | <p>EXIST. CURVE 731 PI STA. = 7+52.12 $\Delta = 120^\circ 00' 00''$ (RT) $D = 70^\circ 59' 55''$ $R = 80.70'$ $T = 139.78'$ $L = 196.18'$ $E = 80.70'$ $e = \text{NONE}$ P.C. STA. = 6+12.35 P.T. STA. = 7+81.36</p> | <p>EXIST. CURVE 738 PI STA. = 2+92.17 $\Delta = 35^\circ 38' 32''$ (RT) $D = 18^\circ 10' 05''$ $R = 315.36'$ $T = 101.38'$ $L = 196.18'$ $E = 15.89'$ $e = \text{NONE}$ P.C. STA. = 1+90.79 P.T. STA. = 3+86.97</p> |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
ALIGNMENT LAYOUT
FISH HATCHERY ROAD

SCALE: VERT. N/A
 HORIZ. 1" = 200'
 DATE OCT 2003

DRAWN BY RLR
 CHECKED BY JCN

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| SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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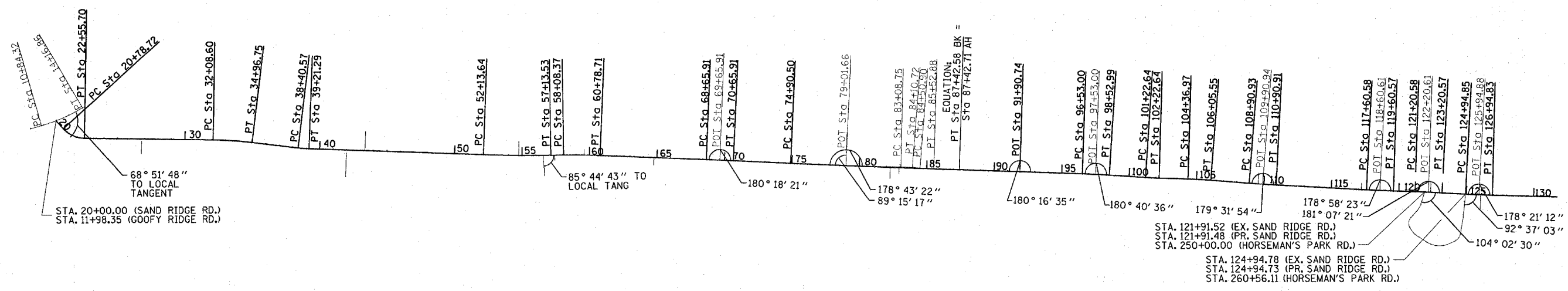
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

* PARK ROADS
** SAND RIDGE STATE FOREST INTERNAL ROADS 2004



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| <p>EXIST. CURVE 600 PI STA. = 12+51.47 Δ = 14° 23' 40" (LT) D = 4° 19' 43" R = 1,323.63' T = 167.15' L = 332.54' E = 10.51' P.C. STA. = 10+84.32 P.T. STA. = 14+16.86</p> | <p>PROP. CURVE PS602 PI STA. = 21+72.52 Δ = 46° 58' 04" (LT) D = 26° 32' 18" R = 215.90' T = 93.80' L = 176.98' E = 19.50' P.C. STA. = 20+78.72 P.T. STA. = 22+55.70 SE = 2.00% SE TRANS: RT STA 20+20.720 TO STA 21+28.720 (-2.0% - +2.0%) RT STA 22+30.700 TO STA 23+80.700 (+2.0 - -2.0%) LT STA 20+20.720 TO STA 23+80.700 (-2.0% - -2.0%)</p> | <p>PROP. CURVE PS603 PI STA. = 33+52.81 Δ = 5° 57' 19" (RT) D = 2° 04' 00" R = 2,772.27' T = 144.21' L = 288.15' E = 3.75' P.C. STA. = 32+08.60 P.T. STA. = 34+96.75 SE = 4.10% SE TRANS: LT STA 30+18.112 TO STA 32+63.600 (-2.0% - +4.1%) RT STA 31+79.088 TO STA 32+63.600 (-2.0 - -4.1%) LT STA 34+41.750 TO STA 36+82.502 (+4.1% - -2.0%) RT STA 34+41.750 TO STA 35+26.262 (-4.1% - -2.0%)</p> | <p>PROP. CURVE PS604 PI STA. = 38+80.95 Δ = 4° 51' 49" (LT) D = 6° 01' 31" R = 950.93' T = 40.38' L = 80.72' E = 0.86' P.C. STA. = 38+40.57 P.T. STA. = 39+21.29 SE = 6.00% SE TRANS: LT STA 37+85.570 TO STA 38+95.570 (-2.0% - -6.0%) RT STA 36+82.500 TO STA 38+95.570 (-2.0 - +6.0%) LT STA 38+66.290 TO STA 39+76.290 (-6.0% - -2.0%) RT STA 38+66.290 TO STA 40+86.290 (+6.0% - -2.0%)</p> | <p>PROP. CURVE PS605 PI STA. = 54+63.64 Δ = 2° 55' 29" (LT) D = 0° 35' 06" R = 9,793.38' T = 250.00' L = 499.89' E = 3.19' P.C. STA. = 52+13.64 P.T. STA. = 57+13.53 SE = N.C.</p> | <p>PROP. CURVE PS606 PI STA. = 59+43.58 Δ = 3° 08' 37" (RT) D = 1° 09' 46" R = 4,927.44' T = 135.20' L = 270.34' E = 1.85' P.C. STA. = 58+08.37 P.T. STA. = 60+78.71 SE = 2.70% SE TRANS: LT STA 55+76.148 TO STA 58+63.370 (-2.0% - +2.7%) RT STA 56+98.370 TO STA 58+63.370 (-2.0 - -2.7%) LT STA 60+23.710 TO STA 63+10.932 (+2.7% - -2.0%) RT STA 60+23.710 TO STA 61+88.710 (-2.7% - -2.0%)</p> | <p>PROP. CURVE PS607 PI STA. = 69+65.91 Δ = 0° 18' 21" (RT) D = 0° 09' 11" R = 37,453.53' T = 100.00' L = 200.00' E = 0.13' P.C. STA. = 68+65.91 P.T. STA. = 70+65.91 SE = N.C.</p> |
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| <p>PROP. CURVE PS608 PI STA. = 81+16.55 Δ = 0° 50' 44" (LT) D = 0° 04' 03" R = 84,852.15' T = 626.05' L = 1,252.09' E = 2.31' P.C. STA. = 74+90.50 P.T. STA. = 87+42.58 SE = N.C.</p> | <p>EXIST. CURVE 608 PI STA. = 83+59.74 Δ = 3° 06' 05" (RT) D = 3° 02' 29" R = 1,883.93' T = 51.00' L = 101.98' E = 0.69' e = N.C. P.C. STA. = 83+08.74 P.T. STA. = 84+10.71</p> | <p>EXIST. CURVE 609 PI STA. = 85+01.89 Δ = 2° 40' 11" (LT) D = 2° 37' 04" R = 2,188.70' T = 51.00' L = 101.98' E = 0.59' e = N.C. P.C. STA. = 84+50.89 P.T. STA. = 85+52.87</p> | <p>PROP. CURVE 261 PI STA. = 97+53.00 Δ = 1° 40' 36" (RT) D = 0° 50' 18" R = 6,833.78' T = 100.00' L = 199.99' E = 0.73' P.C. STA. = 96+53.00 P.T. STA. = 98+52.99 SE = 2.10% SE TRANS: LT STA 93+85.847 TO STA 97+07.990 (-2.0% - +2.1%) RT STA 95+42.990 TO STA 97+07.990 (-2.0 - -2.1%) LT STA 97+97.970 TO STA 99+26.56 (+2.1% - 0.0%) RT STA 97+97.970 TO STA 99+26.56 (-2.1% - 0.0%)</p> | <p>PROP. CURVE PSC8 PI STA. = 101+72.64 Δ = 2° 00' 33" (LT) D = 2° 00' 33" R = 2,851.67' T = 50.01' L = 100.00' E = 0.44' P.C. STA. = 101+22.64 P.T. STA. = 102+22.64 SE = 3.97% SE TRANS: LT STA 99+26.560 TO STA 101+72.620 (0.0% - -3.97%) RT STA 99+26.560 TO STA 101+72.620 (0.0 - +3.97%) LT STA 101+72.620 TO STA 103+40.321 (-3.97% - 0.0%) RT STA 101+72.620 TO STA 103+40.321 (+3.97% - 0.0%)</p> | <p>PROP. CURVE PSC9 PI STA. = 105+21.28 Δ = 2° 46' 02" (RT) D = 1° 38' 30" R = 3,490.39' T = 84.31' L = 168.58' E = 1.02' P.C. STA. = 104+36.97 P.T. STA. = 106+05.55 SE = 3.60% SE TRANS: LT STA 103+40.321 TO STA 104+91.960 (0.0% - +3.6%) RT STA 103+40.321 TO STA 104+91.960 (0.0% - -3.6%) LT STA 105+50.540 TO STA 108+04.710 (+3.6% - 0.0%) RT STA 105+50.540 TO STA 108+04.710 (-3.6% - 0.0%)</p> | <p>PROP. CURVE 253 PI STA. = 109+90.93 Δ = 1° 32' 38" (LT) D = 0° 46' 19" R = 7,421.64' T = 100.00' L = 199.99' E = 0.67' P.C. STA. = 108+90.93 P.T. STA. = 110+90.91 SE = 2.00% SE TRANS: LT STA 108+04.710 TO STA 109+45.920 (0.0% - -2.0%) RT STA 108+04.710 TO STA 109+45.920 (0.0 - +2.0%) LT STA 110+35.900 TO STA 112+00.900 (-2.0% - 2.0%) RT STA 110+35.900 TO STA 113+65.900 (+2.0% - 2.0%)</p> | <p>PROP. CURVE 232 PI STA. = 118+60.58 Δ = 1° 01' 37" (LT) D = 0° 30' 49" R = 11,156.97' T = 100.00' L = 199.99' E = 0.45' P.C. STA. = 117+60.58 P.T. STA. = 119+60.57 SE = N.C.</p> | <p>PROP. CURVE 231 PI STA. = 122+20.58 Δ = 1° 07' 21" (RT) D = 0° 33' 40" R = 10,209.51' T = 100.00' L = 199.99' E = 0.49' P.C. STA. = 121+20.58 P.T. STA. = 123+20.57 SE = N.C.</p> |
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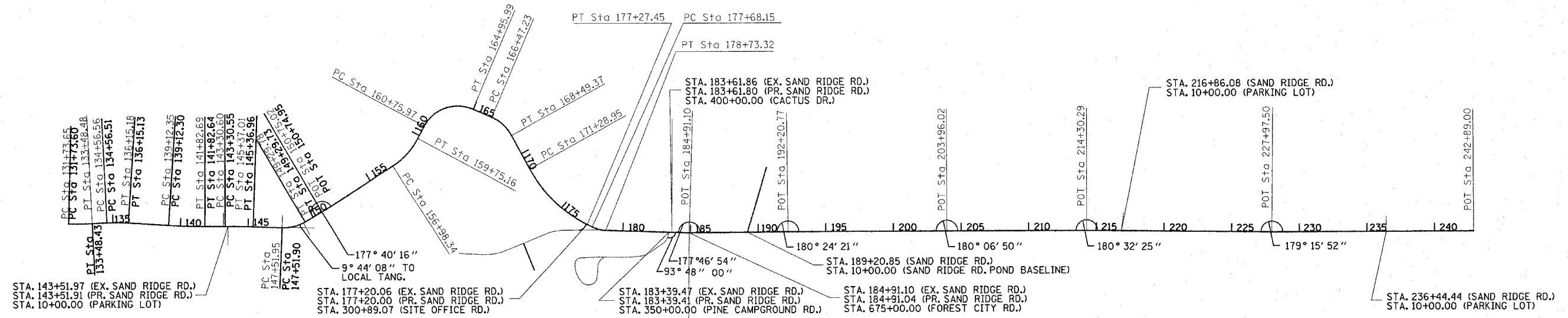
PROP. CURVE 229
PI STA. = 125+94.85
Δ = 1° 38' 47" (LT)
D = 0° 49' 24"
R = 6,959.17'
T = 100.00'
L = 199.99'
E = 0.72'
P.C. STA. = 124+94.85
P.T. STA. = 126+94.83
SE = 2.10%
SE TRANS:
LT STA 123+84.830 TO STA 125+49.830 (-2.0% - -2.1%)
RT STA 122+27.687 TO STA 125+49.830 (-2.0 - +2.1%)
LT STA 126+39.820 TO STA 128+04.820 (-2.1% - -2.0%)
RT STA 126+39.820 TO STA 129+61.963 (+2.1% - -2.0%)

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ILLINOIS DEPARTMENT OF TRANSPORTATION
**ALIGNMENT LAYOUT
 SAND RIDGE ROAD**
 SCALE: VERT. N/A
 HORIZ. 1" = 400'
 DATE OCT 2003
 DRAWN BY RLR
 CHECKED BY JCN

| EXIST. CURVE PSC10 | PROP. CURVE PSC10 | EXIST. CURVE PSC11 | PROP. CURVE PSC11 | EXIST. CURVE PSC12 | PROP. CURVE PSC12 | EXIST. CURVE PSC13 | PROP. CURVE PSC13 | EXIST. CURVE PSC14 | PROP. CURVE PSC14 |
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| PI STA. = 132+61.11 Δ = 4° 15' 30" (LT) D = 2° 26' 09" R = 2,352.24' T = 87.45' L = 174.83' E = 1.63' P.C. STA. = 131+73.65 P.T. STA. = 133+48.48 | PI STA. = 132+61.05 Δ = 4° 15' 30" (LT) D = 2° 26' 09" R = 2,352.24' T = 87.45' L = 174.83' E = 1.63' P.C. STA. = 131+73.60 P.T. STA. = 133+48.43 SE = 4.60% SE TRANS: LT STA 131+35.389 TO STA 132+28.650 (-2.0% - -4.6%) RT STA 129+91.911 TO STA 132+28.650 (-2.0 - +4.6%) LT STA 132+93.480 TO STA 133+89.020 (-4.6% - 0.0%) RT STA 132+93.480 TO STA 133+89.020 (+4.6% - 0.0%) | PI STA. = 135+35.96 Δ = 6° 34' 14" (RT) D = 4° 08' 32" R = 1,383.17' T = 79.40' L = 158.62' E = 2.28' P.C. STA. = 134+56.56 P.T. STA. = 136+15.18 | PI STA. = 135+35.91 Δ = 6° 34' 14" (RT) D = 4° 08' 32" R = 1,383.17' T = 79.40' L = 158.62' E = 2.28' P.C. STA. = 134+56.51 P.T. STA. = 136+15.13 SE = 5.90% SE TRANS: LT STA 133+89.020 TO STA 135+11.560 (0.0% - +5.9%) RT STA 133+89.020 TO STA 135+11.560 (0.0 - -5.9%) LT STA 135+11.560 TO STA 138+27.016 (+5.9% - 0.0%) RT STA 135+11.560 TO STA 138+27.016 (-5.9% - 0.0%) | PI STA. = 140+47.57 Δ = 3° 44' 40" (LT) D = 1° 23' 06" R = 4,136.74' T = 135.22' L = 270.34' E = 2.21' P.C. STA. = 139+12.35 P.T. STA. = 141+82.69 | PI STA. = 140+47.52 Δ = 3° 44' 40" (LT) D = 1° 23' 06" R = 4,136.74' T = 135.22' L = 270.34' E = 2.21' P.C. STA. = 139+12.30 P.T. STA. = 141+82.64 SE = 3.10% SE TRANS: LT STA 138+27.063 TO STA 139+67.290 (0.0% - -3.1%) RT STA 138+27.063 TO STA 139+67.290 (0.0 - +3.1%) LT STA 141+27.630 TO STA 142+75.689 (-3.1% - 0.0%) RT STA 141+27.630 TO STA 142+75.689 (+3.1% - 0.0%) | PI STA. = 144+33.82 Δ = 2° 01' 14" (RT) D = 0° 58' 44" R = 5,853.14' T = 103.21' L = 206.41' E = 0.91' P.C. STA. = 143+30.60 P.T. STA. = 145+37.01 | PI STA. = 144+33.77 Δ = 2° 01' 14" (RT) D = 0° 58' 44" R = 5,853.14' T = 103.21' L = 206.41' E = 0.91' P.C. STA. = 143+30.55 P.T. STA. = 145+36.96 SE = 2.30% SE TRANS: LT STA 142+75.689 TO STA 143+85.540 (0.0% - 2.3%) RT STA 142+75.689 TO STA 143+85.540 (0.0 - -2.3%) LT STA 144+90.428 TO STA 145+78.139 (+2.3% - 0.0%) RT STA 144+90.428 TO STA 145+78.139 (-2.3% - 0.0%) | PI STA. = 148+43.33 Δ = 32° 29' 36" (LT) D = 18° 16' 18" R = 313.58' T = 91.38' L = 177.83' E = 13.04' P.C. STA. = 147+51.95 P.T. STA. = 149+29.78 | PI STA. = 148+43.28 Δ = 32° 29' 36" (LT) D = 18° 16' 18" R = 313.58' T = 91.38' L = 177.83' E = 13.04' P.C. STA. = 147+51.90 P.T. STA. = 149+29.73 SE = 6.00% SE TRANS: LT STA 145+78.139 TO STA 148+06.950 (0.0% - -6.0%) RT STA 145+78.139 TO STA 148+06.950 (0.0 - +6.0%) LT STA 148+74.780 TO STA 149+84.780 (-6.0% - -2.0%) RT STA 148+74.780 TO STA 150+94.780 (+6.0% - -2.0%) |

• PARK ROADS
• SAND RIDGE STATE FOREST INTERNAL ROADS 2004

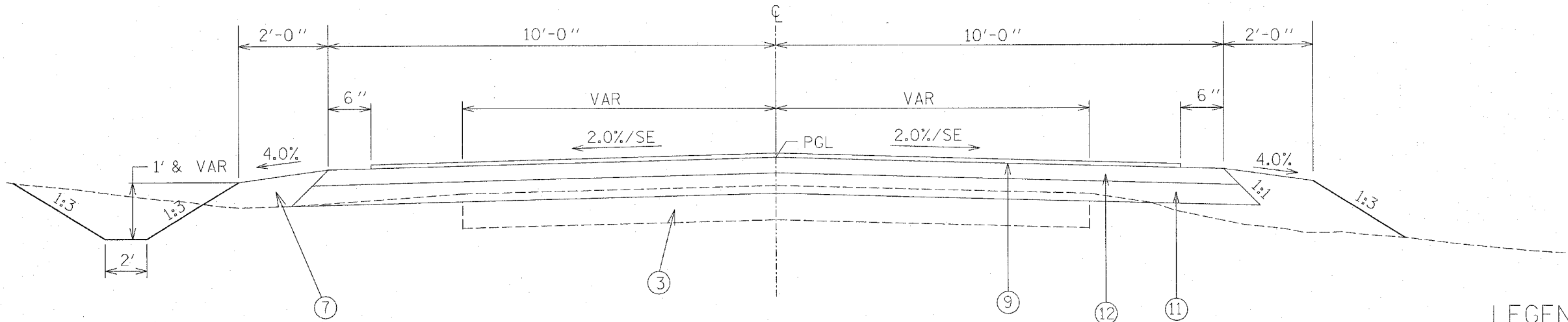


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| EXIST. CURVE PSC15 PI STA. = 158+39.80 Δ = 29° 06' 09" (LT) D = 10° 30' 47" R = 545.00' T = 141.47' L = 276.83' E = 18.06' P.C. STA. = 156+98.34 P.T. STA. = 159+75.16 | EXIST. CURVE PSC16 PI STA. = 163+35.98 Δ = 85° 23' 22" (RT) D = 20° 19' 48" R = 281.83' T = 260.02' L = 420.02' E = 101.62' P.C. STA. = 160+75.97 P.T. STA. = 164+95.99 | EXIST. CURVE PSC17 PI STA. = 167+52.13 Δ = 37° 49' 13" (RT) D = 18° 42' 36" R = 306.23' T = 104.91' L = 202.14' E = 17.47' P.C. STA. = 166+47.23 P.T. STA. = 168+49.37 | EXIST. CURVE PSC18 PI STA. = 174+37.51 Δ = 34° 21' 50" (LT) D = 5° 44' 30" R = 997.90' T = 308.56' L = 598.50' E = 46.61' P.C. STA. = 171+28.95 P.T. STA. = 177+27.45 | EXIST. CURVE PSC19 PI STA. = 178+21.61 Δ = 25° 16' 10" (LT) D = 24° 01' 41" R = 238.45' T = 53.45' L = 105.17' E = 5.92' P.C. STA. = 177+68.15 P.T. STA. = 178+73.32 |
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| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
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SCALE: VERT. N/A
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DATE OCT 2003

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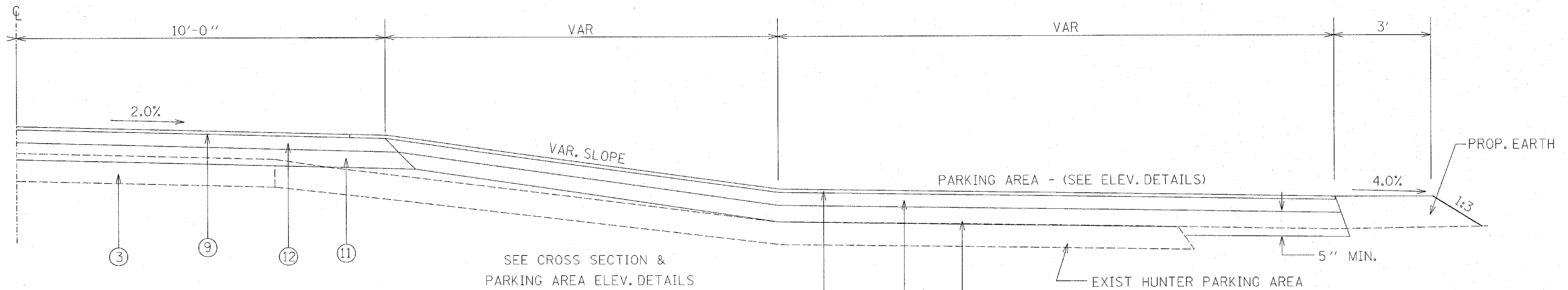
SAND RIDGE ROAD

STA. 20+12.33 TO STA. 148+50

NOTE: STA. 148+50 TO STA. 185+50.12 SHALL RECEIVE BIT. SURF. TREATMENT, A-3, ONLY SEE PLAN SHEETS FOR DETAILS

LEGEND

- ① EXIST. AGG. BASE WITH BIT. CONCRETE SURFACE
- ② EXIST. SAND / AGG. BASE WITH OIL & CHIP SURF.
- ③ EXIST. SAND BASE
- ④ EXIST. AGG. BASE
- ⑤ PROP. LEVELING BINDER, 1"
- ⑥ PROP. BIT. CONCRETE SURF. CSE., 1 1/2"
- ⑦ PROP. EARTH SHOULDERS
- ⑧ PROP. AGG. SURFACE CSE., TYPE-A, 4"
- ⑨ PROP. BITUMINOUS SURFACE TREATMENT, A-3
- ⑩ PROP. AGG. SHOULDERS TYPE-B
- ⑪ PROP. SUB-BASE GRAN. MATERIAL, TYPE-B 5" (CA 02)
- ⑫ PROP. AGG. SURFACE CSE., TYPE-A 3" (CA 06)
- ⑬ PROP. BIT. BASE CSE., SUPERPAVE, 8"



SEE CROSS SECTION & PARKING AREA ELEV. DETAILS

SAND RIDGE ROAD HUNTER PARKING AREAS

NOTE : * 5" MIN. THICKNESS OUTSIDE EX PARKING AREA VARIABLE DEPTH ON TOP OF EX PARKING AREA

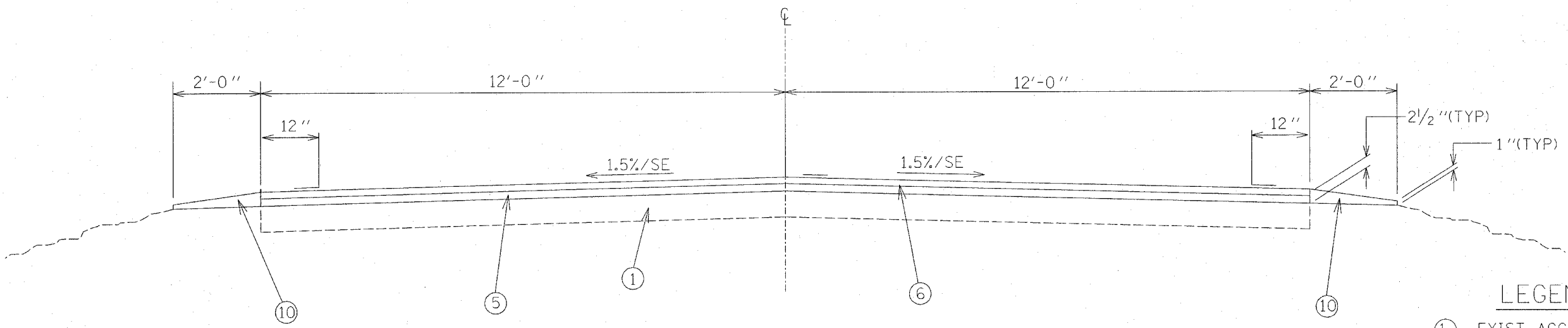
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ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE: VERT. HORIZ. DATE FEBRUARY, 2003

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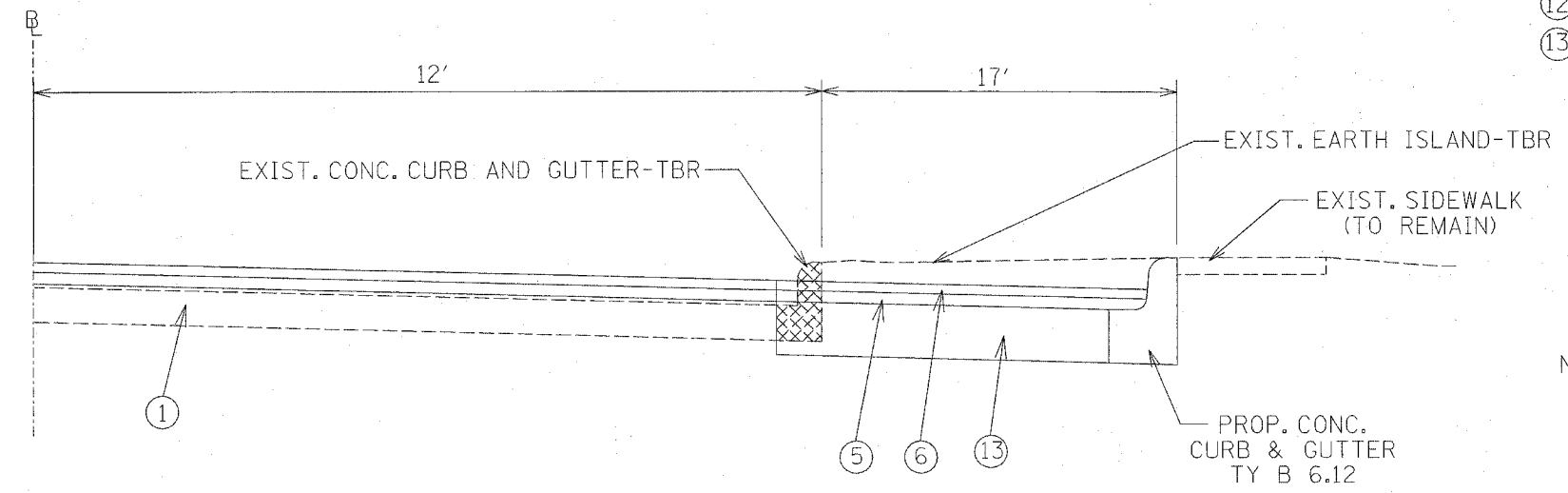
JAKE WOLF FISH HATCHERY RD.
STA. 13+25.77 TO STA. 60+02.96

NOTE: SEE PLAN SHEETS FOR FISH HATCHERY PARKING LOT DETAILS.
STA. 1+25 TO STA. 13+25.77

(MATCH EXISTING CROSS-SLOPES OR AS DIRECTED BY THE ENGINEER)
NOTE: RESURFACING SHALL INCLUDE GUTTER FLAG AREAS

LEGEND

- ① EXIST. AGG. BASE WITH BIT. CONCRETE SURFACE
- ② EXIST. SAND / AGG. BASE WITH OIL & CHIP SURF.
- ③ EXIST. SAND BASE
- ④ EXIST. AGG. BASE
- ⑤ PROP. LEVELING BINDER, 1"
- ⑥ PROP. BIT. CONCRETE SURF. CSE., 1 1/2"
- ⑦ PROP. EARTH SHOULDERS
- ⑧ PROP. AGG. SURFACE CSE., TYPE-A, 4"
- ⑨ PROP. BITUMINOUS SURFACE TREATMENT, A-3
- ⑩ PROP. AGG. SHOULDERS TYPE-B
- ⑪ PROP. SUB-BASE GRAN. MATERIAL, TYPE-B 5" (CA 02)
- ⑫ PROP. AGG. SURFACE CSE., TYPE-A 3" (CA 06)
- ⑬ PROP. BIT. BASE CSE., SUPERPAVE, 8"



JAKE WOLF FISH HATCHERY PARKING LOT - ISLAND REMOVAL DETAIL
LT STA. 5+62.01 TO LT STA. 5+73.59
LT STA. 6+34.32 TO LT STA. 6+42.13

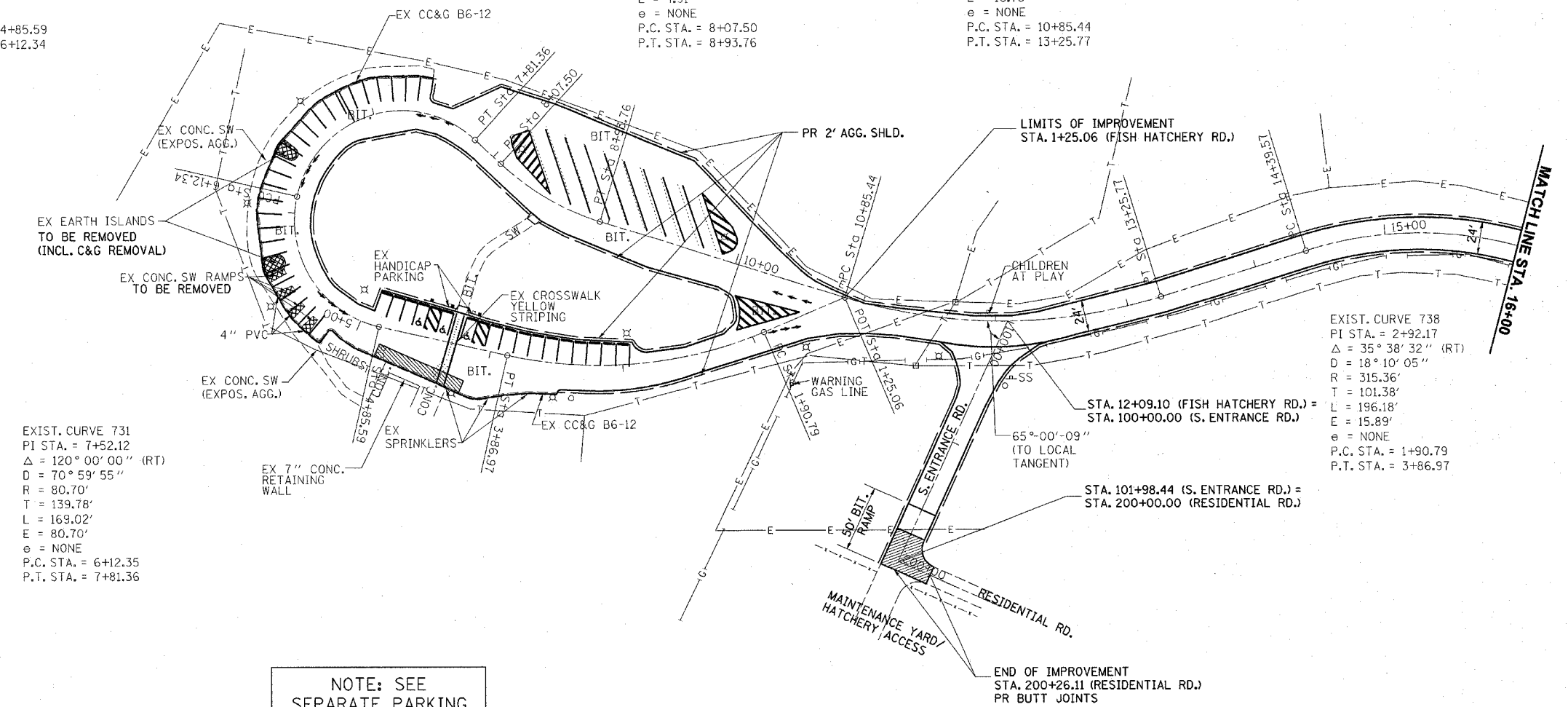
NOTE: PREPARE SUBGRADE
SUITABLE TO PLACE
BITUMINOUS BASE CSE.

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
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| NAME | DATE | |
| | | <p>TYPICAL CROSS SECTIONS</p> <p>SCALE: VERT. DRAWN BY CRV HORIZ. CHECKED BY</p> <p>DATE FEBRUARY, 2003</p> |
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EXIST. CURVE 733
 PI STA. = 5+66.29
 $\Delta = 90^\circ 00' 00''$ (RT)
 D = 71' 00' 17"
 R = 80.69'
 T = 80.69'
 L = 126.75'
 E = 33.42'
 e = NONE
 P.C. STA. = 4+85.59
 P.T. STA. = 6+12.34

EXIST. CURVE 735
 PI STA. = 8+51.36
 $\Delta = 25^\circ 33' 59''$ (LT)
 D = 29' 38' 20"
 R = 193.31'
 T = 43.86'
 L = 86.26'
 E = 4.91'
 e = NONE
 P.C. STA. = 8+07.50
 P.T. STA. = 8+93.76

EXIST. CURVE 736
 PI STA. = 12+09.35
 $\Delta = 34^\circ 23' 04''$ (LT)
 D = 14' 18' 24"
 R = 400.48'
 T = 123.91'
 L = 240.34'
 E = 18.73'
 e = NONE
 P.C. STA. = 10+85.44
 P.T. STA. = 13+25.77



EXIST. CURVE 731
 PI STA. = 7+52.12
 $\Delta = 120^\circ 00' 00''$ (RT)
 D = 70' 59' 55"
 R = 80.70'
 T = 139.78'
 L = 169.02'
 E = 80.70'
 e = NONE
 P.C. STA. = 6+12.35
 P.T. STA. = 7+81.36

EXIST. CURVE 738
 PI STA. = 2+92.17
 $\Delta = 35^\circ 38' 32''$ (RT)
 D = 18' 10' 05"
 R = 315.36'
 T = 101.38'
 L = 196.18'
 E = 15.89'
 e = NONE
 P.C. STA. = 1+90.79
 P.T. STA. = 3+86.97

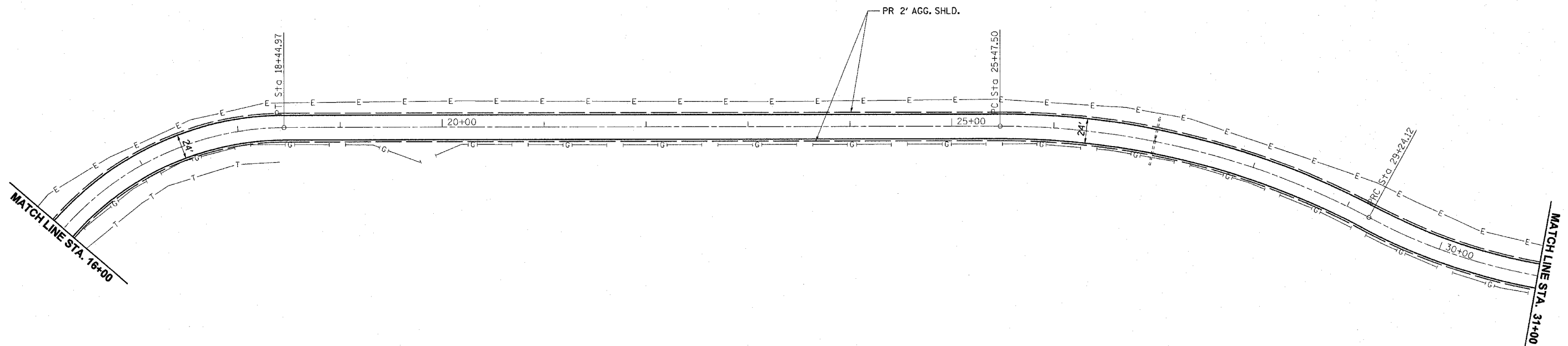
NOTE: SEE SEPARATE PARKING AREA DETAILS FOR MORE INFORMATION

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
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| NAME | DATE | |
| | | JAKE WOLF MEMORIAL FISH HATCHERY ROAD AND PARKING AREA PLAN SHEETS |
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EXIST. CURVE 721
 PI STA. = 16+84.48
 $\Delta = 80^\circ 59' 24''$ (RT)
 $D = 19^\circ 58' 40''$
 $R = 286.80'$
 $T = 244.90'$
 $L = 405.40'$
 $E = 90.34'$
 $e = 6\%$
 P.C. STA. = 14+39.57
 P.T. STA. = 18+44.97
 SE TRANS
 13+90 TO 14+90
 17+95 TO 18+95

EXIST. CURVE 723
 PI STA. = 27+39.72
 $\Delta = 28^\circ 14' 50''$ (RT)
 $D = 7^\circ 30' 01''$
 $R = 763.93'$
 $T = 192.22'$
 $L = 376.62'$
 $E = 23.81'$
 $e = 4\%$
 P.C. STA. = 25+47.50
 P.T. STA. = 29+24.12
 SE TRANS
 24+81 TO 25+81
 28+90 TO 29+57

EXIST. CURVE 725
 PI STA. = 32+59.56
 $\Delta = 61^\circ 49' 15''$ (LT)
 $D = 10^\circ 13' 37''$
 $R = 560.25'$
 $T = 335.44'$
 $L = 604.49'$
 $E = 92.74'$
 $e = 4.8\%$
 P.C. STA. = 29+24.12
 P.T. STA. = 35+28.62
 SE TRANS = 2.48%
 28+90 TO 29+57
 34+95 TO 35+62

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**JAKE WOLF MEMORIAL
 FISH HATCHERY ROAD
 PLAN SHEETS**

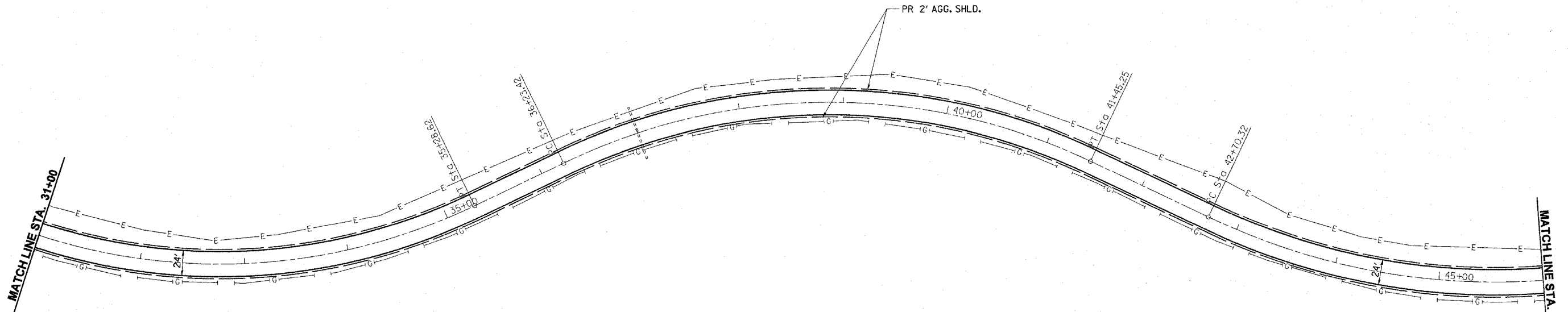
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| CONTRACT #72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | MASON | | 36 | 21 |
| STA. 31+00 | | TO STA. 46+00 | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004



EXIST. CURVE 725
 PI STA. = 32+59.56
 $\Delta = 61^\circ 49' 15''$ (LT)
 $D = 10^\circ 13' 37''$
 $R = 560.25'$
 $T = 335.44'$
 $L = 604.49'$
 $E = 92.74'$
 $e = 4.8\%$
 P.C. STA. = 29+24.12
 P.T. STA. = 35+28.62
 SE TRANS = 4.8%
 28+90 TO 29+57
 34+95 TO 35+62

EXIST. CURVE 726
 PI STA. = 39+03.15
 $\Delta = 51^\circ 07' 45''$ (RT)
 $D = 9^\circ 47' 53''$
 $R = 584.77'$
 $T = 279.73'$
 $L = 521.83'$
 $E = 63.46'$
 $e = 4.5\%$
 P.C. STA. = 36+23.42
 P.T. STA. = 41+45.25
 SE TRANS
 35+89 TO 36+56
 41+11 TO 41+79

EXIST. CURVE 727
 PI STA. = 44+93.02
 $\Delta = 38^\circ 30' 04''$ (LT)
 $D = 8^\circ 59' 04''$
 $R = 637.71'$
 $T = 222.71'$
 $L = 428.53'$
 $E = 37.77'$
 $e = 4.5\%$
 P.C. STA. = 42+70.32
 P.T. STA. = 46+98.84
 SE TRANS
 42+13 TO 42+80
 47+18 TO 47+85

| REVISIONS | |
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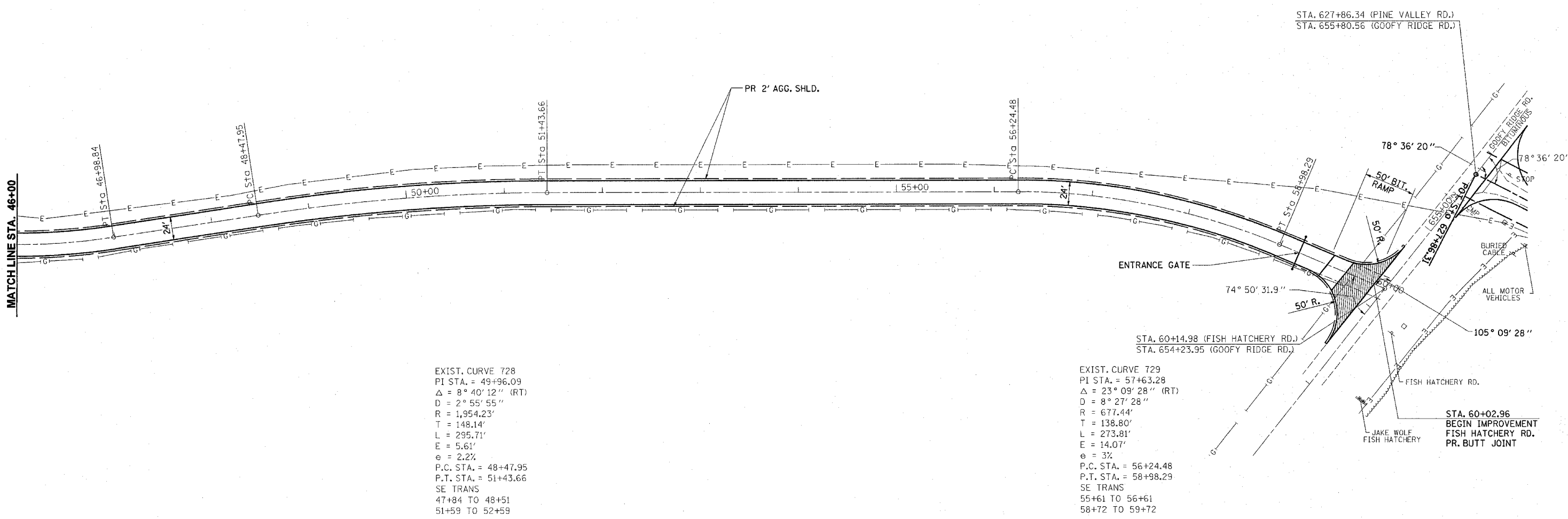
ILLINOIS DEPARTMENT OF TRANSPORTATION

**JAKE WOLF MEMORIAL
 FISH HATCHERY ROAD
 PLAN SHEETS**

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| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
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| NAME | DATE | |
| | | <p align="center">JAKE WOLF MEMORIAL FISH HATCHERY ROAD PLAN SHEETS</p> <p>SCALE: VERT. DRAWN BY HORIZ. CHECKED BY DATE</p> |
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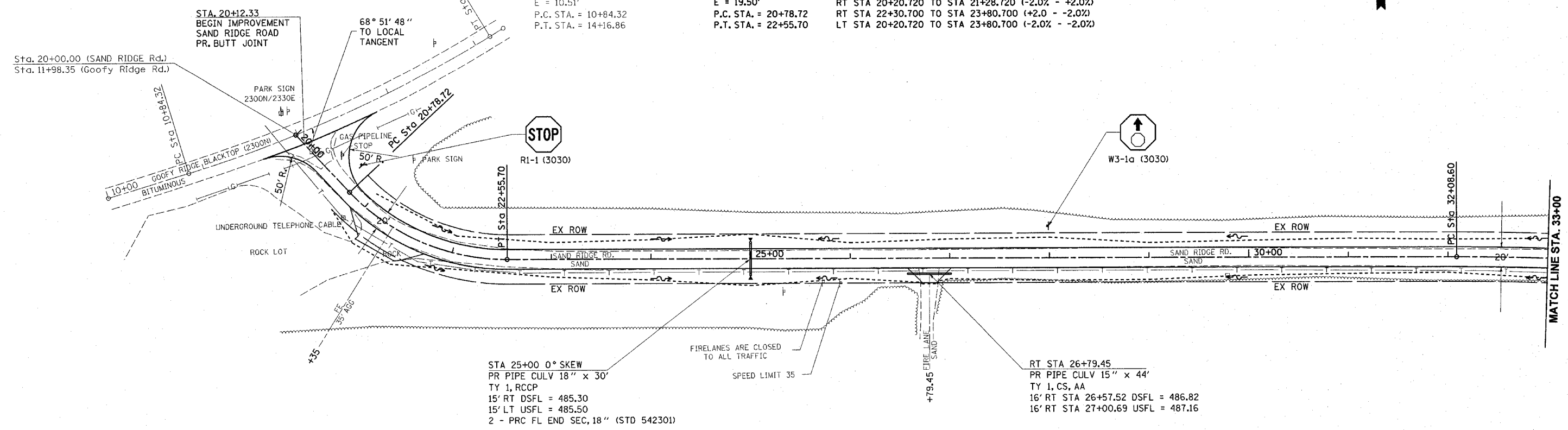
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| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | MASON | 86 | 23 |
| STA. 20+00 | | TO STA. 33+00 | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | |

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004

EXIST. CURVE 600
 PI STA. = 12+51.47
 $\Delta = 14^\circ 23' 40''$ (LT)
 $D = 4^\circ 19' 43''$
 $R = 1,323.63'$
 $T = 167.15'$
 $L = 332.54'$
 $E = 10.51'$
 P.C. STA. = 10+84.32
 P.T. STA. = 14+16.86

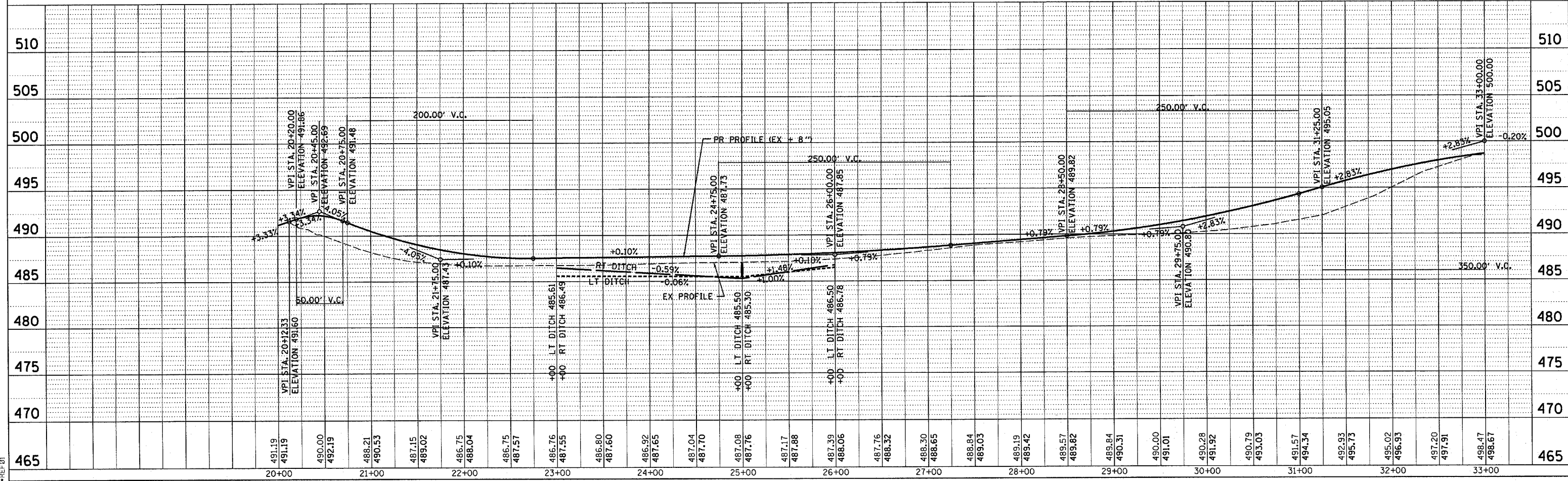
PROP. CURVE PS602
 PI STA. = 21+72.52
 $\Delta = 46^\circ 58' 04''$ (LT)
 $D = 26^\circ 32' 18''$
 $R = 215.90'$
 $T = 93.80'$
 $L = 176.98'$
 $E = 19.50'$
 P.C. STA. = 20+78.72
 P.T. STA. = 22+55.70

SE = 2.00%
 SE TRANS:
 RT STA 20+20.720 TO STA 21+28.720 (-2.0% - +2.0%)
 RT STA 22+30.700 TO STA 23+80.700 (+2.0 - -2.0%)
 LT STA 20+20.720 TO STA 23+80.700 (-2.0% - -2.0%)



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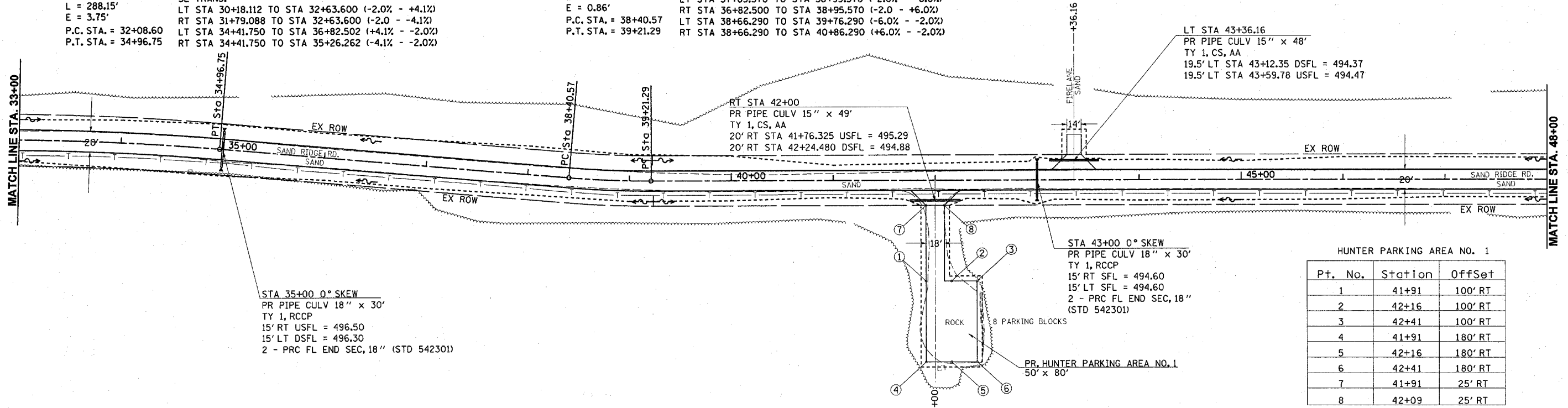
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PROP. CURVE PS603
 PI STA. = 33+52.81
 $\Delta = 5^\circ 57' 19''$ (RT)
 D = 2° 04' 00"
 R = 2,772.27'
 T = 144.21'
 L = 288.15'
 E = 3.75'
 P.C. STA. = 32+08.60
 P.T. STA. = 34+96.75

SE = 4.10%
 SE TRANS:
 LT STA 30+18.112 TO STA 32+63.600 (-2.0% - +4.1%)
 RT STA 31+79.088 TO STA 32+63.600 (-2.0 - -4.1%)
 LT STA 34+41.750 TO STA 36+82.502 (+4.1% - -2.0%)
 RT STA 34+41.750 TO STA 35+26.262 (-4.1% - -2.0%)

PROP. CURVE PS604
 PI STA. = 38+80.95
 $\Delta = 4^\circ 51' 49''$ (LT)
 D = 6° 01' 31"
 R = 950.93'
 T = 40.38'
 L = 80.72'
 E = 0.86'
 P.C. STA. = 38+40.57
 P.T. STA. = 39+21.29

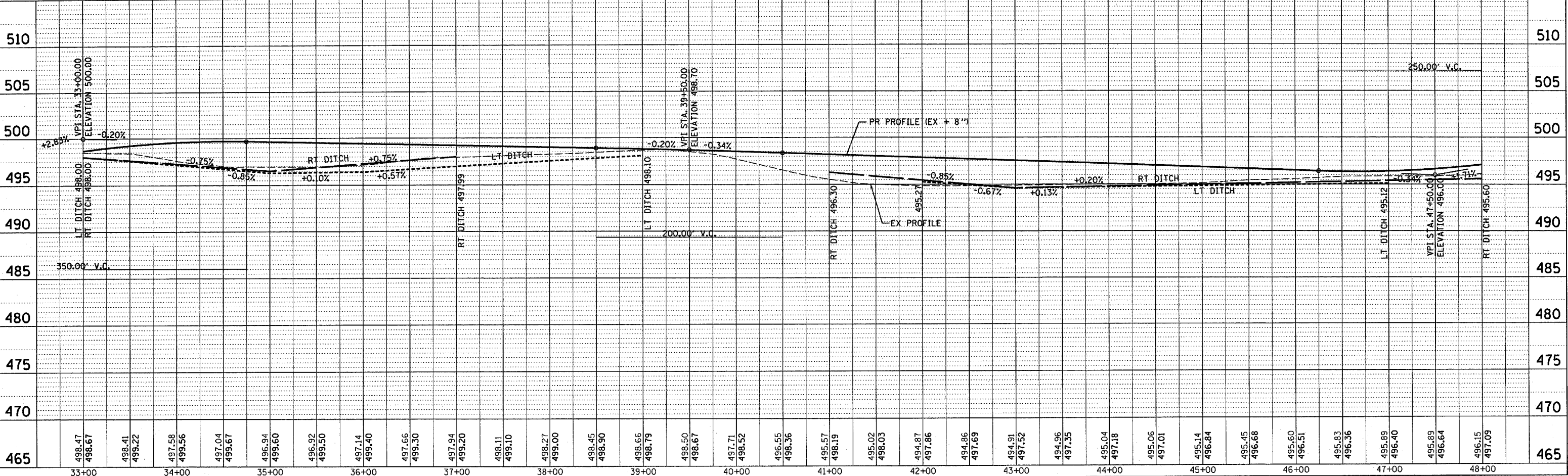
SE = 6.00%
 SE TRANS:
 LT STA 37+85.570 TO STA 38+95.570 (-2.0% - -6.0%)
 RT STA 36+82.500 TO STA 38+95.570 (-2.0 - +6.0%)
 LT STA 38+66.290 TO STA 39+76.290 (-6.0% - -2.0%)
 RT STA 38+66.290 TO STA 40+86.290 (+6.0% - -2.0%)



HUNTER PARKING AREA NO. 1

| Pt. No. | Station | Offset |
|---------|---------|---------|
| 1 | 41+91 | 100' RT |
| 2 | 42+16 | 100' RT |
| 3 | 42+41 | 100' RT |
| 4 | 41+91 | 180' RT |
| 5 | 42+16 | 180' RT |
| 6 | 42+41 | 180' RT |
| 7 | 41+91 | 25' RT |
| 8 | 42+09 | 25' RT |

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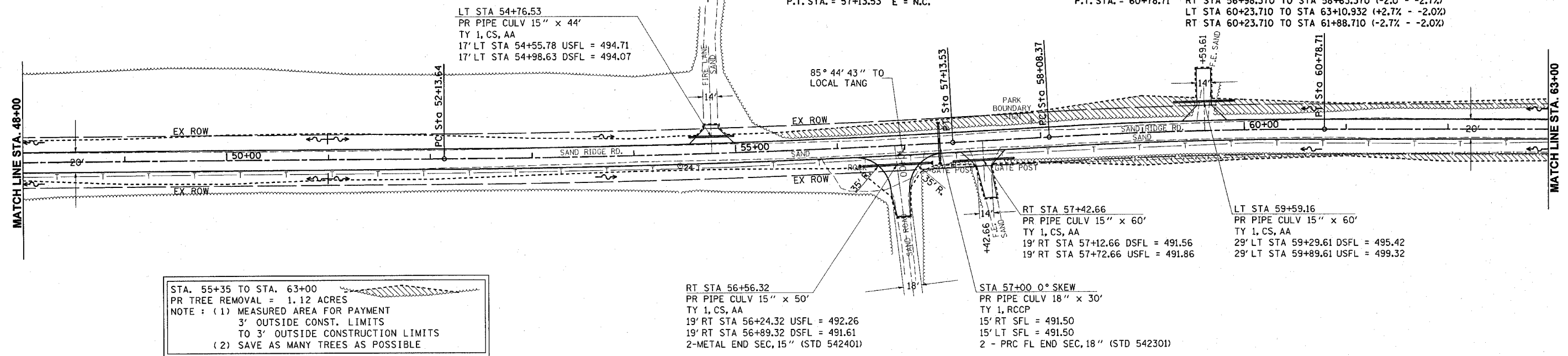
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| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | MASON | ILLINOIS | 86 | 25 |
| STA. 48+00 | | TO STA. 63+00 | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | |

PROP. CURVE PS605
 PI STA. = 54+63.64
 $\Delta = 2^\circ 55' 29''$ (LT)
 $D = 0^\circ 35' 06''$
 $R = 9,793.38'$
 $T = 250.00'$
 $L = 499.89'$
 $E = 3.19'$
 P.C. STA. = 52+13.64
 P.T. STA. = 57+13.53 E = N.C.

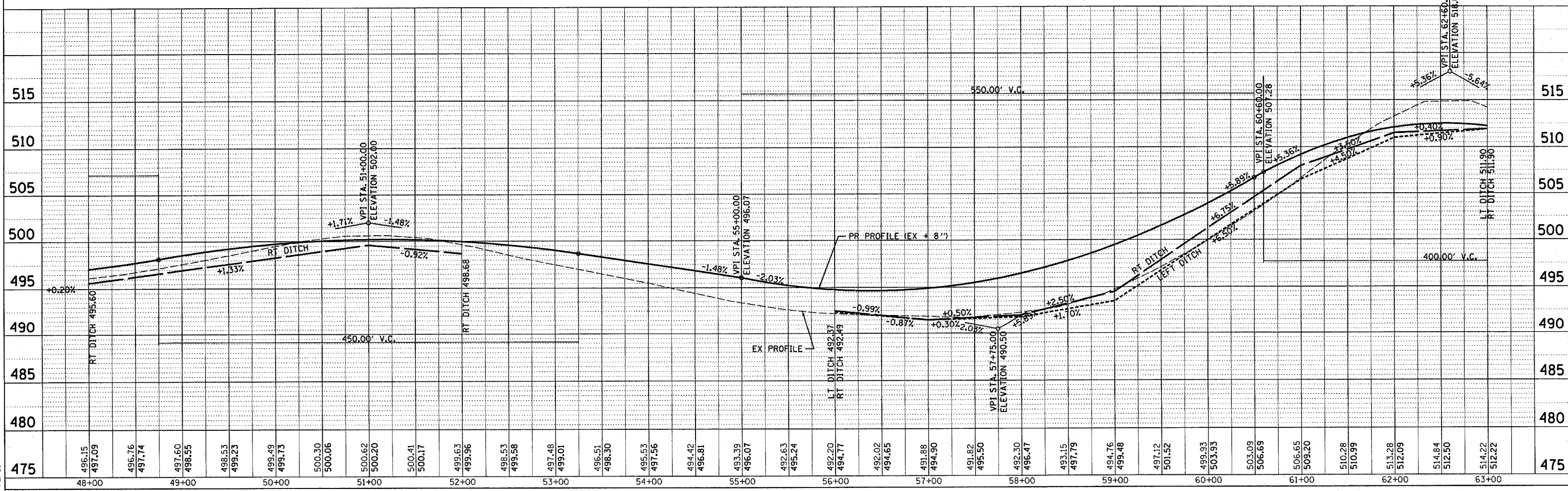
PROP. CURVE PS606
 PI STA. = 59+43.58
 $\Delta = 3^\circ 08' 37''$ (RT)
 $D = 1^\circ 09' 46''$
 $R = 4,927.44'$
 $T = 135.20'$
 $L = 270.34'$
 $E = 1.85'$
 P.C. STA. = 58+08.37
 P.T. STA. = 60+78.71

SE = 2.70%
 SE TRANS:
 LT STA 55+76.148 TO STA 58+63.370 (-2.0% - +2.7%)
 RT STA 56+98.370 TO STA 58+63.370 (-2.0 - -2.7%)
 LT STA 60+23.710 TO STA 63+10.932 (+2.7% - -2.0%)
 RT STA 60+23.710 TO STA 61+88.710 (-2.7% - -2.0%)

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004



STA. 55+35 TO STA. 63+00
 PR TREE REMOVAL = 1.12 ACRES
 NOTE : (1) MEASURED AREA FOR PAYMENT
 3' OUTSIDE CONST. LIMITS
 TO 3' OUTSIDE CONSTRUCTION LIMITS
 (2) SAVE AS MANY TREES AS POSSIBLE



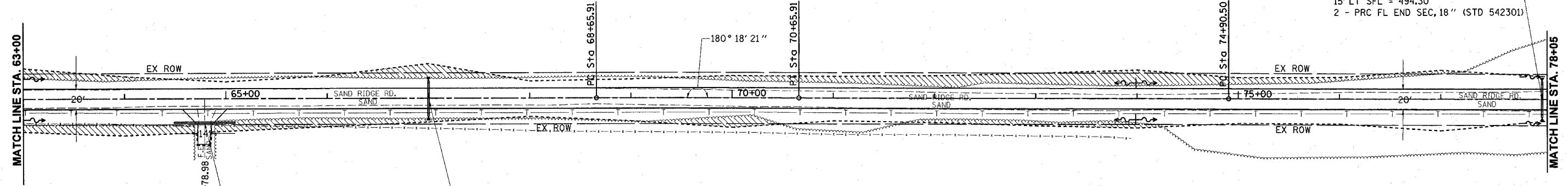
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PROP. CURVE PS607
 PI STA. = 69+65.91
 $\Delta = 0^\circ 18' 21''$ (RT)
 $D = 0^\circ 09' 11''$
 $R = 37,453.53'$
 $T = 100.00'$
 $L = 200.00'$
 $E = 0.13'$
 P.C. STA. = 68+65.91
 P.T. STA. = 70+65.91 E = N.C.

STA 78+00 0° SKEW
 PR PIPE CULV 18" x 30'
 TY 1, RCCP
 15' RT SFL = 494.30
 15' LT SFL = 494.30
 2 - PRC FL END SEC, 18" (STD 542301)



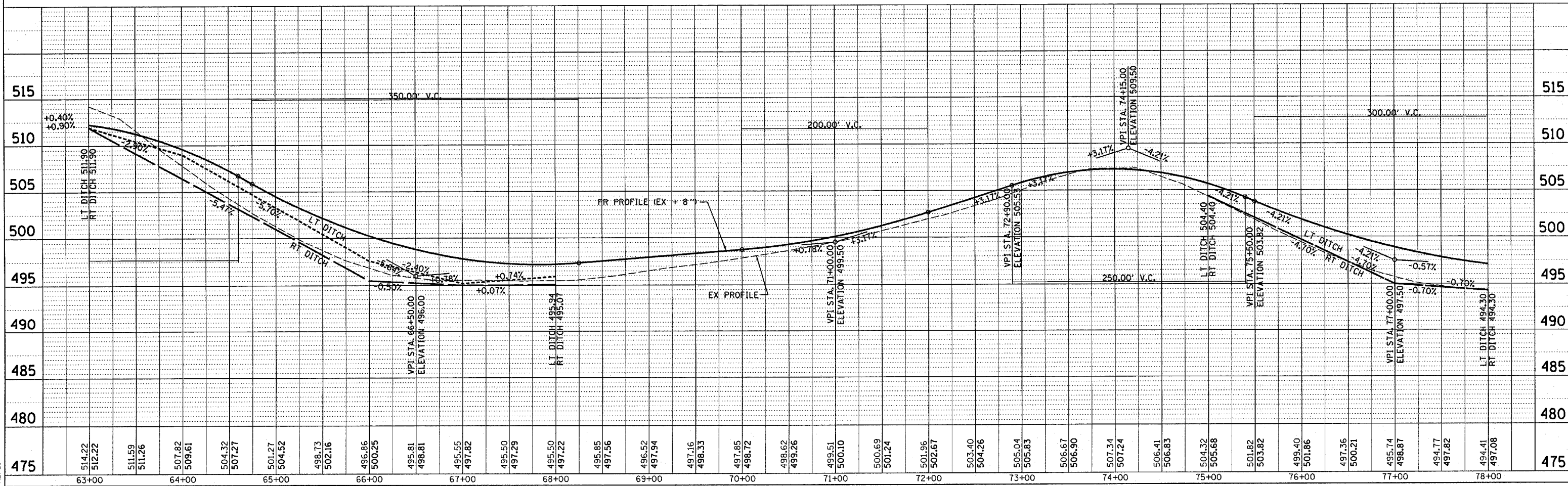
RT STA 64+78.98
 PR PIPE CULV 15" x 48'
 TY 1, CS, AA
 23' RT STA 64+48.98 USFL = 503.76
 23' RT STA 65+08.98 DSFL = 500.48

STA 67+00 0° SKEW
 PR PIPE CULV 18" x 30'
 TY 1, RCCP
 15' RT DSFL = 495.00
 15' LT USFL = 495.20
 2 - PRC FL END SEC, 18" (STD 542301)

STA. 63+00 TO STA. 67+70
 STA. 69+40 TO STA. 78+05
 PR TREE REMOVAL = 1.73 ACRES
 NOTE : (1) MEASURED AREA FOR PAYMENT
 3' OUTSIDE CONST. LIMITS
 TO 3' OUTSIDE CONSTRUCTION LIMITS
 (2) SAVE AS MANY TREES AS POSSIBLE

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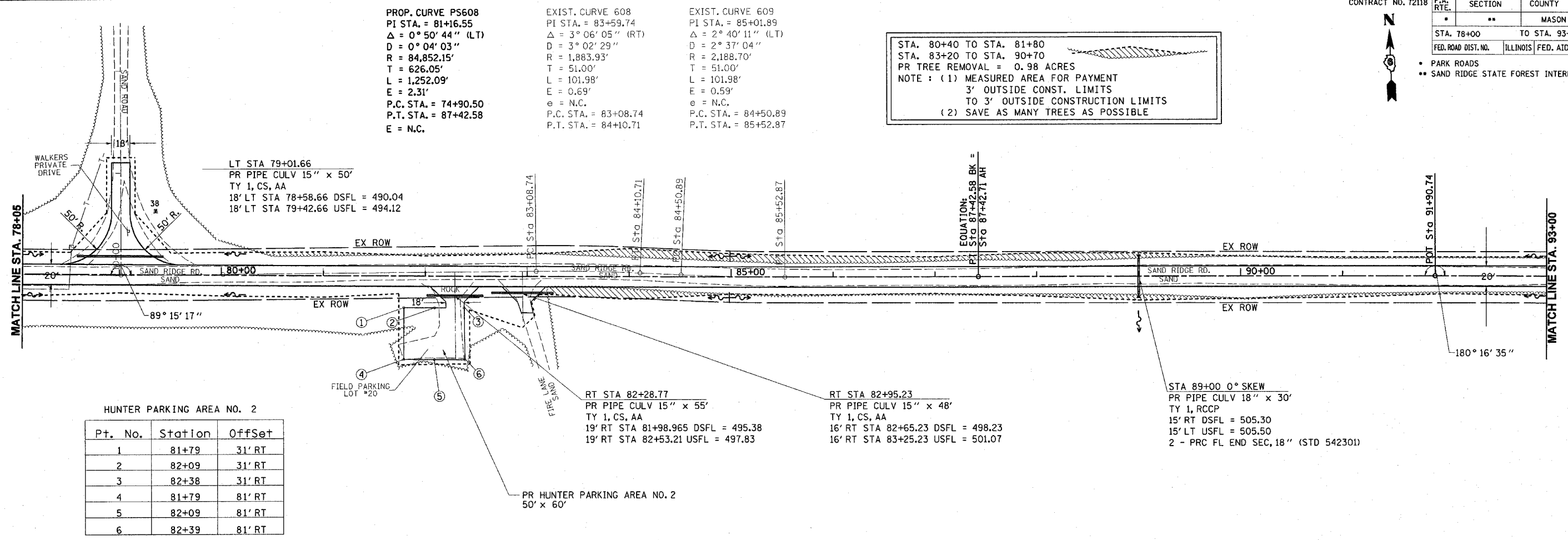
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PROP. CURVE PS608
 PI STA. = 81+16.55
 $\Delta = 0^\circ 50' 44''$ (LT)
 $D = 0^\circ 04' 03''$
 $R = 84,852.15'$
 $T = 626.05'$
 $L = 1,252.09'$
 $E = 2.31'$
 P.C. STA. = 74+90.50
 P.T. STA. = 87+42.58
 $E = N.C.$

EXIST. CURVE 608
 PI STA. = 83+59.74
 $\Delta = 3^\circ 06' 05''$ (RT)
 $D = 3^\circ 02' 29''$
 $R = 1,883.93'$
 $T = 51.00'$
 $L = 101.98'$
 $E = 0.69'$
 $e = N.C.$
 P.C. STA. = 83+08.74
 P.T. STA. = 84+10.71

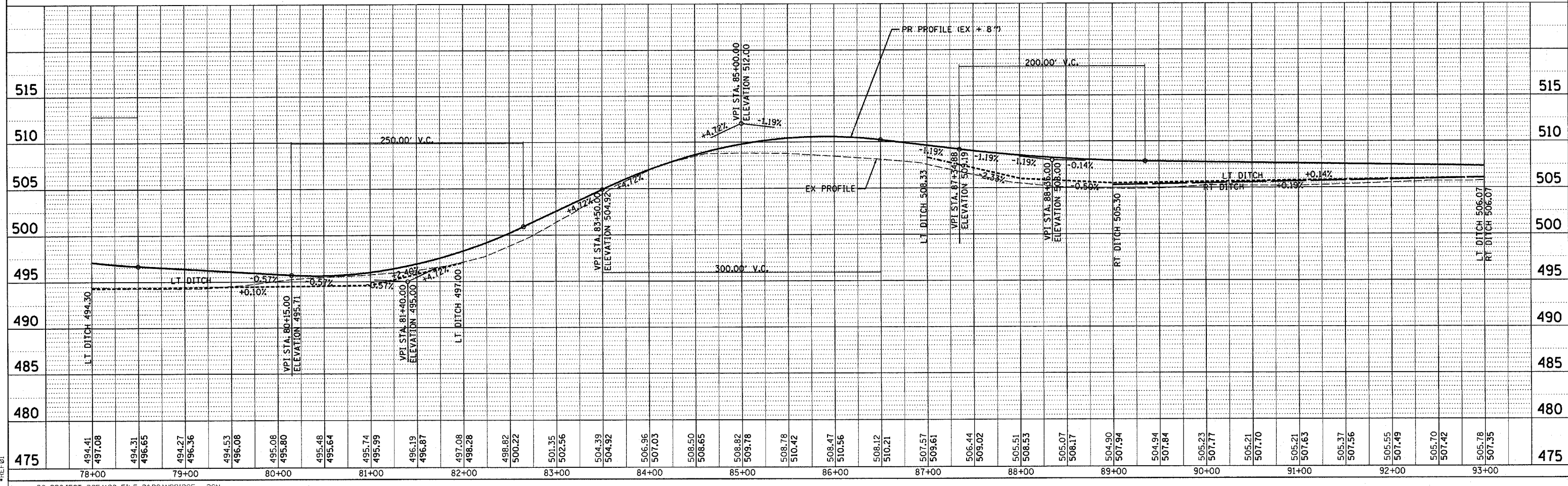
EXIST. CURVE 609
 PI STA. = 85+01.89
 $\Delta = 2^\circ 40' 11''$ (LT)
 $D = 2^\circ 37' 04''$
 $R = 2,188.70'$
 $T = 51.00'$
 $L = 101.98'$
 $E = 0.59'$
 $e = N.C.$
 P.C. STA. = 84+50.89
 P.T. STA. = 85+52.87

STA. 80+40 TO STA. 81+80
 STA. 83+20 TO STA. 90+70
 PR TREE REMOVAL = 0.98 ACRES
 NOTE: (1) MEASURED AREA FOR PAYMENT
 3' OUTSIDE CONST. LIMITS
 TO 3' OUTSIDE CONSTRUCTION LIMITS
 (2) SAVE AS MANY TREES AS POSSIBLE



HUNTER PARKING AREA NO. 2

| Pt. No. | Station | Offset |
|---------|---------|--------|
| 1 | 81+79 | 31' RT |
| 2 | 82+09 | 31' RT |
| 3 | 82+38 | 31' RT |
| 4 | 81+79 | 81' RT |
| 5 | 82+09 | 81' RT |
| 6 | 82+39 | 81' RT |



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| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | ** | MASON | 86 | 28 |
| STA. 93+00 | | TO STA. 108+00 | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | |
| <ul style="list-style-type: none"> PARK ROADS SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | | |

PROP. CURVE 261
 PI STA. = 97+53.00
 $\Delta = 1^\circ 40' 36''$ (RT)
 $D = 0^\circ 50' 18''$
 $R = 6,833.78'$
 $T = 100.00'$
 $L = 199.99'$
 $E = 0.73'$
 P.C. STA. = 96+53.00 SE = 2.10%
 P.T. STA. = 98+52.99 SE TRANS:

PROP. CURVE PSC8
 PI STA. = 101+72.64
 $\Delta = 2^\circ 00' 33''$ (LT)
 $D = 2^\circ 00' 33''$
 $R = 2,851.67'$
 $T = 50.01'$
 $L = 100.00'$
 $E = 0.44'$
 P.C. STA. = 101+22.64 SE = 3.97%
 P.T. STA. = 102+22.64 SE TRANS:

PROP. CURVE PSC9
 PI STA. = 105+21.28
 $\Delta = 2^\circ 46' 02''$ (RT)
 $D = 1^\circ 38' 30''$
 $R = 3,490.39'$
 $T = 84.31'$
 $L = 168.58'$
 $E = 1.02'$
 P.C. STA. = 104+36.97 SE = 3.60%
 P.T. STA. = 106+05.55 SE TRANS:

LT STA 93+85.847 TO STA 97+07.990 (-2.0% - +2.1%)
 RT STA 95+42.990 TO STA 97+07.990 (-2.0 - -2.1%)
 LT STA 97+97.970 TO STA 99+26.56 (+2.1% - 0.0%)
 RT STA 97+97.970 TO STA 99+26.56 (-2.1% - 0.0%)

LT STA 99+26.560 TO STA 101+72.620 (0.0% - -3.97%)
 RT STA 99+26.560 TO STA 101+72.620 (0.0 - +3.97%)
 LT STA 101+72.620 TO STA 103+40.321 (-3.97% - 0.0%)
 RT STA 101+72.620 TO STA 103+40.321 (+3.97% - 0.0%)

LT STA 103+40.321 TO STA 104+91.960 (0.0% - +3.6%)
 RT STA 103+40.321 TO STA 104+91.960 (0.0% - -3.6%)
 LT STA 105+50.540 TO STA 108+04.710 (+3.6% - 0.0%)
 RT STA 105+50.540 TO STA 108+04.710 (-3.6% - 0.0%)

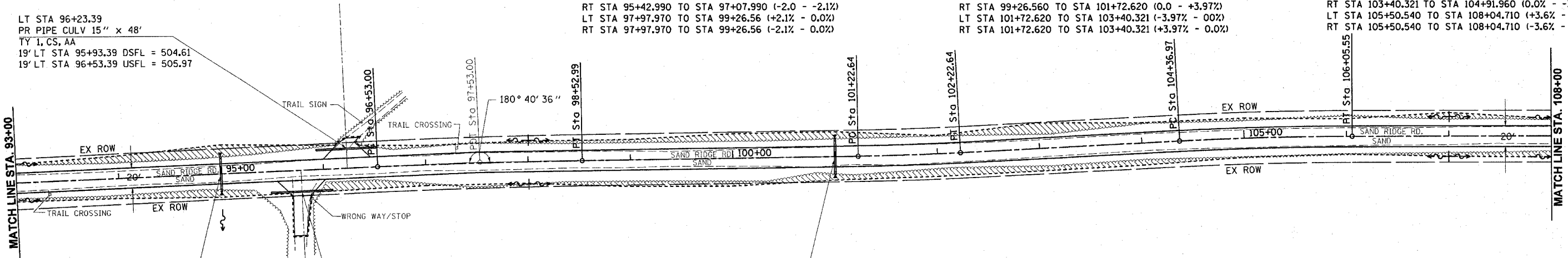
LT STA 96+23.39
 PR PIPE CULV 15" x 48'
 TY 1, CS, AA
 19' LT STA 95+93.39 DSFL = 504.61
 19' LT STA 96+53.39 USFL = 505.97

STA 95+00 0° SKEW
 PR PIPE CULV 18" x 30'
 TY 1, RCCP
 15' RT DSFL = 504.50
 15' LT USFL = 504.70
 2 - PRC FL END SEC, 18" (STD 542301)

RT STA 95+78.18
 PR PIPE CULV 15" x 48'
 TY 1, CS, AA
 21' RT STA 95+48.18 DSFL = 504.43
 21' RT STA 96+08.18 USFL = 504.73

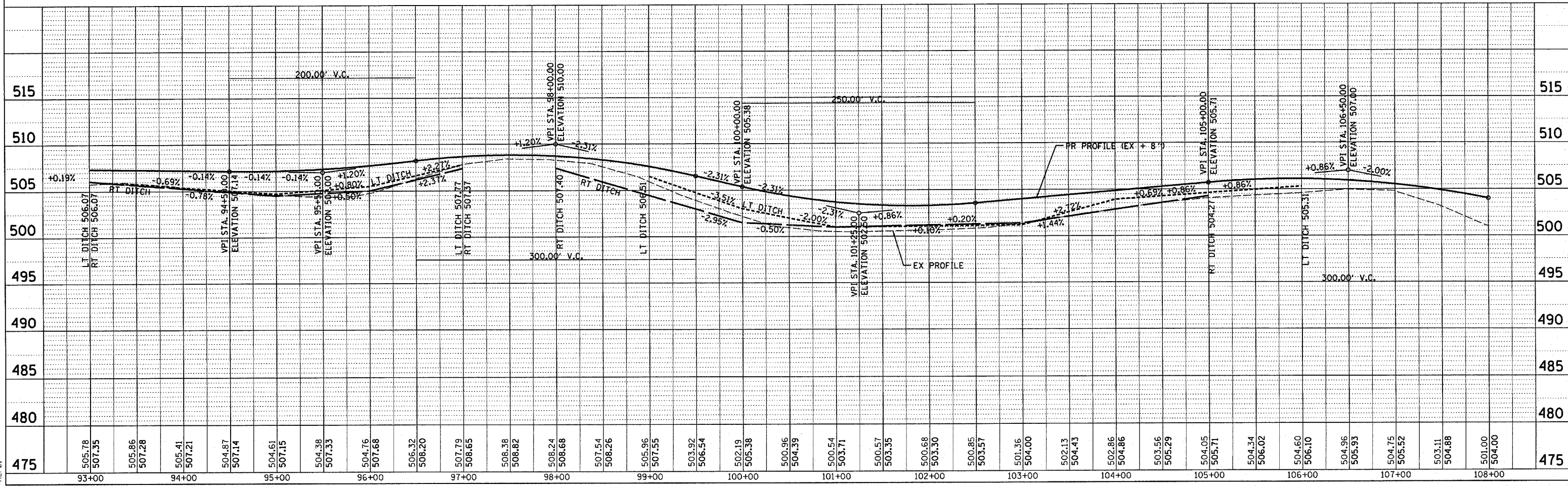
STA 101+00 0° SKEW
 PR PIPE CULV 18" x 30'
 TY 1, RCCP
 15' RT SFL = 501.00
 15' LT SFL = 501.00
 2 - PRC FL END SEC, 18" (STD 542301)

STA. 93+00 TO STA. 105+60
 STA. 106+30 TO STA. 108+00
 PR TREE REMOVAL = 1.64 ACRES
 NOTE : (1) MEASURED AREA FOR PAYMENT
 3' OUTSIDE CONST. LIMITS
 TO 3' OUTSIDE CONSTRUCTION LIMITS
 (2) SAVE AS MANY TREES AS POSSIBLE



| | | |
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| PLAN | SURVEYED | DATE |
| | PLOTTED | |
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| PROFILE | SURVEYED | DATE |
| | PLOTTED | |
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| | BY | |
| | NO. | |



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 2/6/2004
 *REF 01

HUNTER PARKING AREA NO. 3

| Pt. No. | Station | Offset |
|---------|---------|--------|
| 1 | 109+22 | 27' LT |
| 2 | 109+92 | 27' LT |
| 3 | 109+22 | 57' LT |
| 4 | 109+92 | 57' LT |

PROP. CURVE 253
 PI STA. = 109+90.93
 $\Delta = 1^\circ 32' 38''$ (LT)
 $D = 0^\circ 46' 19''$
 $R = 7,421.64'$
 $T = 100.00'$
 $L = 199.99'$
 $E = 0.67'$
 P.C. STA. = 108+90.93
 P.T. STA. = 110+90.91

SE = 2.00%
 SE TRANS:
 LT STA 108+04.710 TO STA 109+45.920 (0.0% - -2.0%)
 RT STA 108+04.710 TO STA 109+45.920 (0.0% - +2.0%)
 LT STA 110+35.900 TO STA 112+00.900 (-2.0% - -2.0%)
 RT STA 110+35.900 TO STA 113+65.900 (+2.0% - -2.0%)

PROP. CURVE 232
 PI STA. = 118+60.58
 $\Delta = 1^\circ 01' 37''$ (LT)
 $D = 0^\circ 30' 49''$
 $R = 11,156.97'$
 $T = 100.00'$
 $L = 199.99'$
 $E = 0.45'$
 P.C. STA. = 117+60.58
 P.T. STA. = 119+60.57
 E = N.C.

PROP. CURVE 231
 PI STA. = 122+20.58
 $\Delta = 1^\circ 07' 21''$ (RT)
 $D = 0^\circ 33' 40''$
 $R = 10,209.51'$
 $T = 100.00'$
 $L = 199.99'$
 $E = 0.49'$
 P.C. STA. = 121+20.58
 P.T. STA. = 123+20.57
 E = N.C.

DATE: _____ BY: _____

PLAN

DATE: _____ BY: _____

PROFILE

DATE: _____ BY: _____

SECTION

DATE: _____ BY: _____

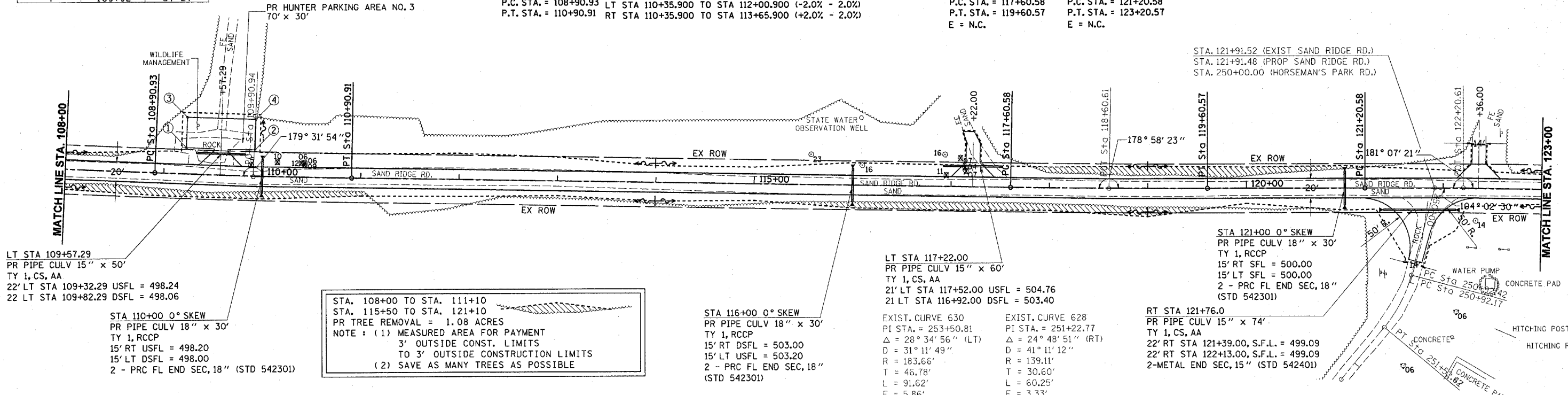
CONSTRUCTION

DATE: _____ BY: _____

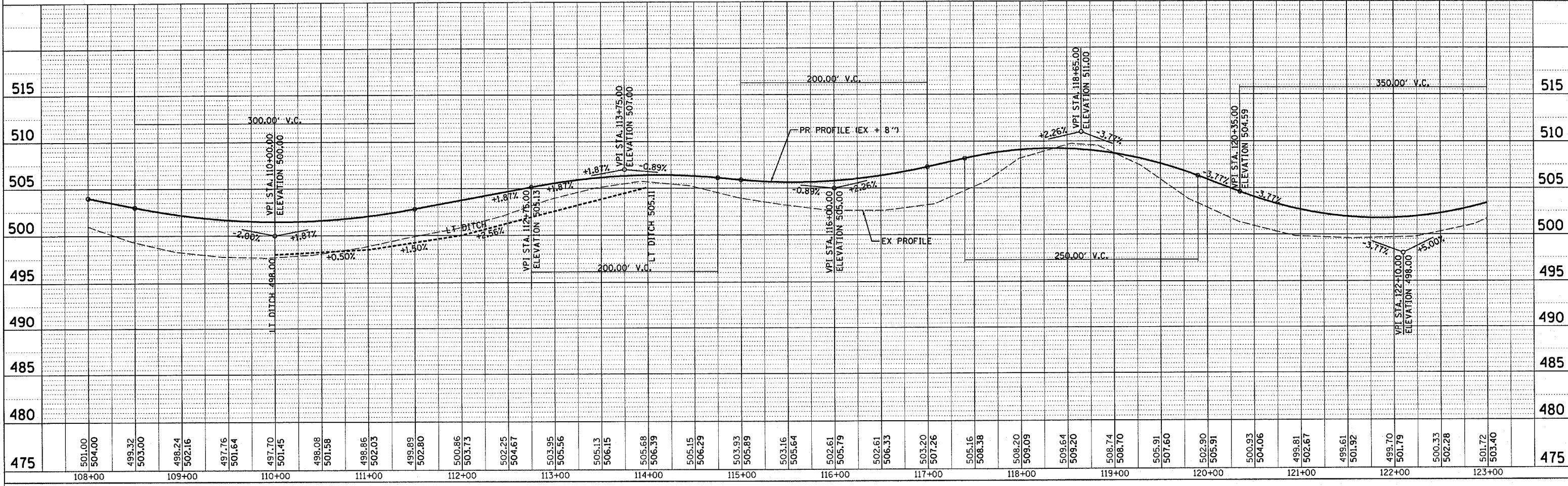
NOTES

DATE: _____ BY: _____

AS-BUILT



STA. 108+00 TO STA. 111+10
 STA. 115+50 TO STA. 121+10
 PR TREE REMOVAL = 1.08 ACRES
 NOTE: (1) MEASURED AREA FOR PAYMENT
 TO 3' OUTSIDE CONST. LIMITS
 TO 3' OUTSIDE CONSTRUCTION LIMITS
 (2) SAVE AS MANY TREES AS POSSIBLE



| | | | | | |
|------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | MASON | 30 | 30 |
| STA. 123+00 | | TO STA. 138+00 | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | |
| <ul style="list-style-type: none"> * PARK ROADS ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | | |

PROP. CURVE PSC11
 PI STA. = 125+94.85
 $\Delta = 1^\circ 38' 47''$ (LT)
 $D = 0^\circ 49' 24''$
 $R = 6,959.17'$
 $T = 100.00'$
 $L = 199.99'$
 $E = 0.72'$
 P.C. STA. = 124+94.85
 P.T. STA. = 126+94.83

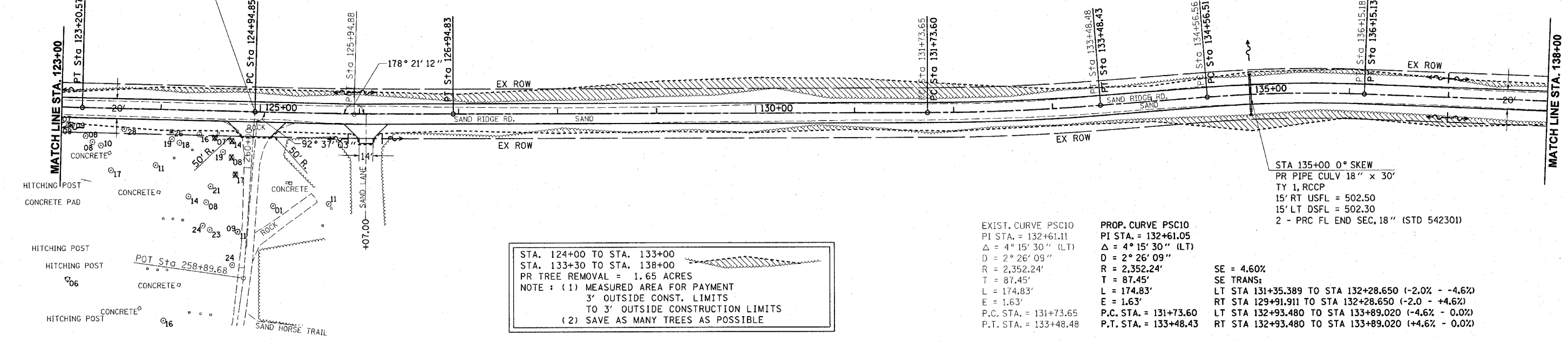
SE = 2.10%
 SE TRANS:
 LT STA 123+84.830 TO STA 125+49.830 (-2.0% - -2.1%)
 RT STA 122+27.687 TO STA 125+49.830 (-2.0 - +2.1%)
 LT STA 126+39.820 TO STA 128+04.820 (-2.1% - -2.0%)
 RT STA 126+39.820 TO STA 129+61.963 (+2.1% - -2.0%)

EXIST. CURVE PSC11
 PI STA. = 135+35.96
 $\Delta = 6^\circ 34' 14''$ (RT)
 $D = 4^\circ 08' 32''$
 $R = 1,383.17'$
 $T = 79.40'$
 $L = 158.62'$
 $E = 2.28'$
 P.C. STA. = 134+56.56
 P.T. STA. = 136+15.18

PROP. CURVE PSC11
 PI STA. = 135+35.91
 $\Delta = 6^\circ 34' 14''$ (RT)
 $D = 4^\circ 08' 32''$
 $R = 1,383.17'$
 $T = 79.40'$
 $L = 158.62'$
 $E = 2.28'$
 P.C. STA. = 134+56.51
 P.T. STA. = 136+15.13

SE = 5.90%
 SE TRANS:
 LT STA 133+89.020 TO STA 135+11.560 (0.0% - +5.9%)
 RT STA 133+89.020 TO STA 135+11.560 (0.0 - -5.9%)
 LT STA 135+11.560 TO STA 138+27.016 (+5.9% - 0.0%)
 RT STA 135+11.560 TO STA 138+27.016 (-5.9% - 0.0%)

STA. 124+94.78 (EXIST SAND RIDGE RD.)
 STA. 124+94.73 (PROP SAND RIDGE RD.)
 STA. 260+56.11 (HORSEMAN'S PARK RD.)



STA. 124+00 TO STA. 133+00
 STA. 133+30 TO STA. 138+00
 PR TREE REMOVAL = 1.65 ACRES
 NOTE: (1) MEASURED AREA FOR PAYMENT
 3' OUTSIDE CONST. LIMITS
 TO 3' OUTSIDE CONSTRUCTION LIMITS
 (2) SAVE AS MANY TREES AS POSSIBLE

EXIST. CURVE PSC10
 PI STA. = 132+61.11
 $\Delta = 4^\circ 15' 30''$ (LT)
 $D = 2^\circ 26' 09''$
 $R = 2,352.24'$
 $T = 87.45'$
 $L = 174.83'$
 $E = 1.63'$
 P.C. STA. = 131+73.65
 P.T. STA. = 133+48.48

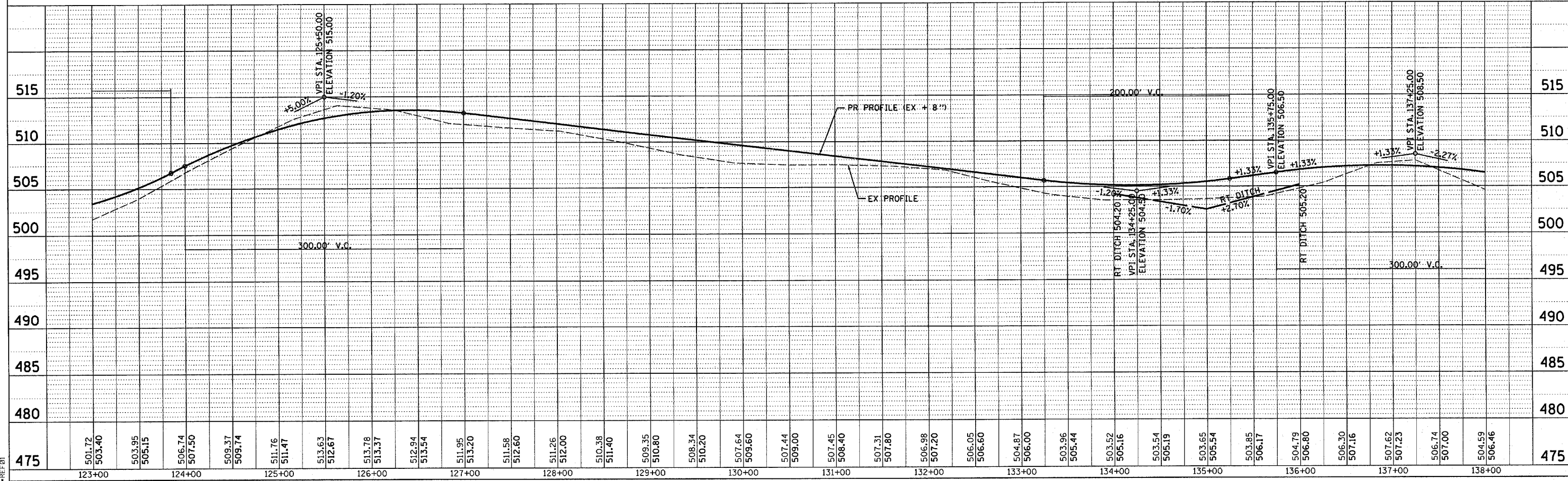
PROP. CURVE PSC10
 PI STA. = 132+61.05
 $\Delta = 4^\circ 15' 30''$ (LT)
 $D = 2^\circ 26' 09''$
 $R = 2,352.24'$
 $T = 87.45'$
 $L = 174.83'$
 $E = 1.63'$
 P.C. STA. = 131+73.60
 P.T. STA. = 133+48.43

SE = 4.60%
 SE TRANS:
 LT STA 131+35.389 TO STA 132+28.650 (-2.0% - -4.6%)
 RT STA 129+91.911 TO STA 132+28.650 (-2.0 - +4.6%)
 LT STA 132+93.480 TO STA 133+89.020 (-4.6% - 0.0%)
 RT STA 132+93.480 TO STA 133+89.020 (+4.6% - 0.0%)

STA 135+00 0° SKEW
 PR PIPE CULV 18" x 30'
 TY 1, RCCP
 15' RT USFL = 502.50
 15' LT DSFL = 502.30
 2 - PRC FL END SEC. 18" (STD 542301)

| | |
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| DATE | |
| BY | |
| REVISIONS | |
| NO. | DESCRIPTION |
| 1 | ALIGNMENT CHECKED |
| 2 | GRADES CHECKED |
| 3 | PLOTTED |
| 4 | DATE PLOTTED |
| 5 | NOTE BOOK NO. |
| 6 | DATE FILED |
| 7 | FILE NAME |
| 8 | NO. |
| 9 | |
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| DATE | |
| BY | |
| REVISIONS | |
| NO. | DESCRIPTION |
| 1 | NOTATIONS CHKD |
| 2 | STRUCTURE |
| 3 | GRADES CHECKED |
| 4 | PLOTTED |
| 5 | DATE PLOTTED |
| 6 | NOTE BOOK NO. |
| 7 | DATE FILED |
| 8 | FILE NAME |
| 9 | NO. |
| 10 | |



PROJECT: D654196.P&PSANDRIDGE.DGN
 2/6/2004
 -REF 01

EXIST. CURVE PSC12
 PI STA. = 140+47.57
 $\Delta = 3^\circ 44' 40''$ (LT)
 $D = 1^\circ 23' 06''$
 $R = 4,136.74'$
 $T = 135.22'$
 $L = 270.34'$
 $E = 2.21'$
 P.C. STA. = 139+12.35
 P.T. STA. = 141+82.69

PROP. CURVE PSC12
 PI STA. = 140+47.52
 $\Delta = 3^\circ 44' 40''$ (LT)
 $D = 1^\circ 23' 06''$
 $R = 4,136.74'$
 $T = 135.22'$
 $L = 270.34'$
 $E = 2.21'$
 P.C. STA. = 139+12.30
 P.T. STA. = 141+82.64

SE = 3.10%
 SE TRANS:
 LT STA 138+27.063 TO STA 139+67.290 (0.0% - -3.1%)
 RT STA 138+27.063 TO STA 139+67.290 (0.0 - +3.1%)
 LT STA 141+27.630 TO STA 142+75.689 (-3.1% - 0.0%)
 RT STA 141+27.630 TO STA 142+75.689 (+3.1% - 0.0%)

EXIST. CURVE PSC13
 PI STA. = 144+33.82
 $\Delta = 2^\circ 01' 14''$ (RT)
 $D = 0^\circ 58' 44''$
 $R = 5,853.14'$
 $T = 103.21'$
 $L = 206.41'$
 $E = 0.91'$
 P.C. STA. = 143+30.60
 P.T. STA. = 145+37.01

PROP. CURVE PSC13
 PI STA. = 144+33.77
 $\Delta = 2^\circ 01' 14''$ (RT)
 $D = 0^\circ 58' 44''$
 $R = 5,853.14'$
 $T = 103.21'$
 $L = 206.41'$
 $E = 0.91'$
 P.C. STA. = 143+30.55
 P.T. STA. = 145+36.96

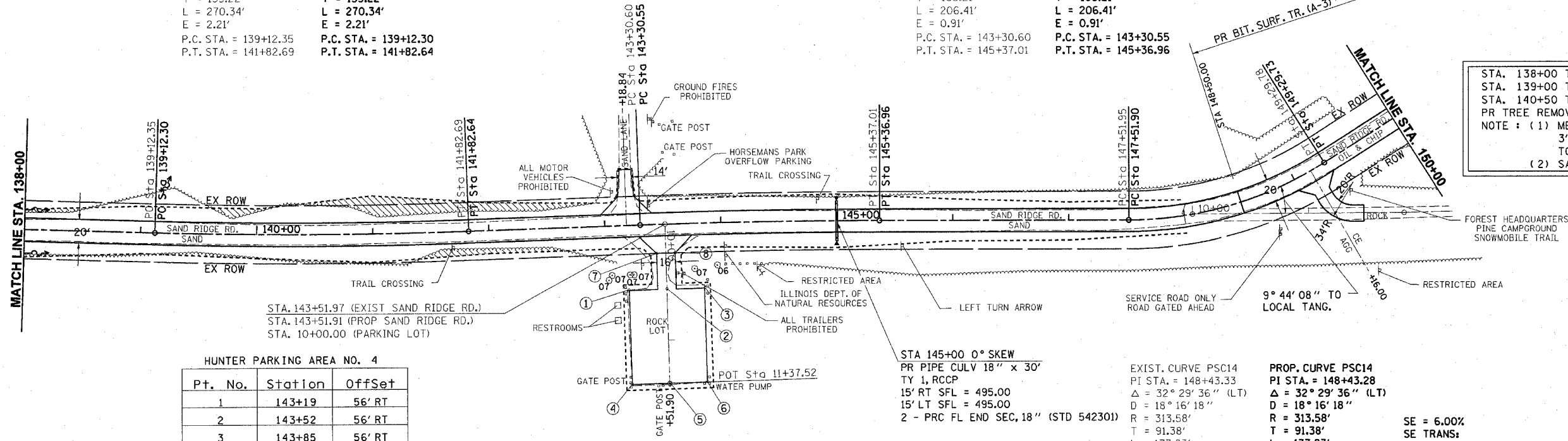
SE = 2.30%
 SE TRANS:
 LT STA 142+75.689 TO STA 143+85.540 (0.0% - 2.3%)
 RT STA 142+75.689 TO STA 143+85.540 (0.0 - -2.3%)
 LT STA 144+90.428 TO STA 145+78.139 (+2.3% - 0.0%)
 RT STA 144+90.428 TO STA 145+78.139 (-2.3% - 0.0%)

CONTRACT NO. 72118

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| | ** | MASON | 86 | 31 |
| STA. 138+00 | | TO STA. 150+00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

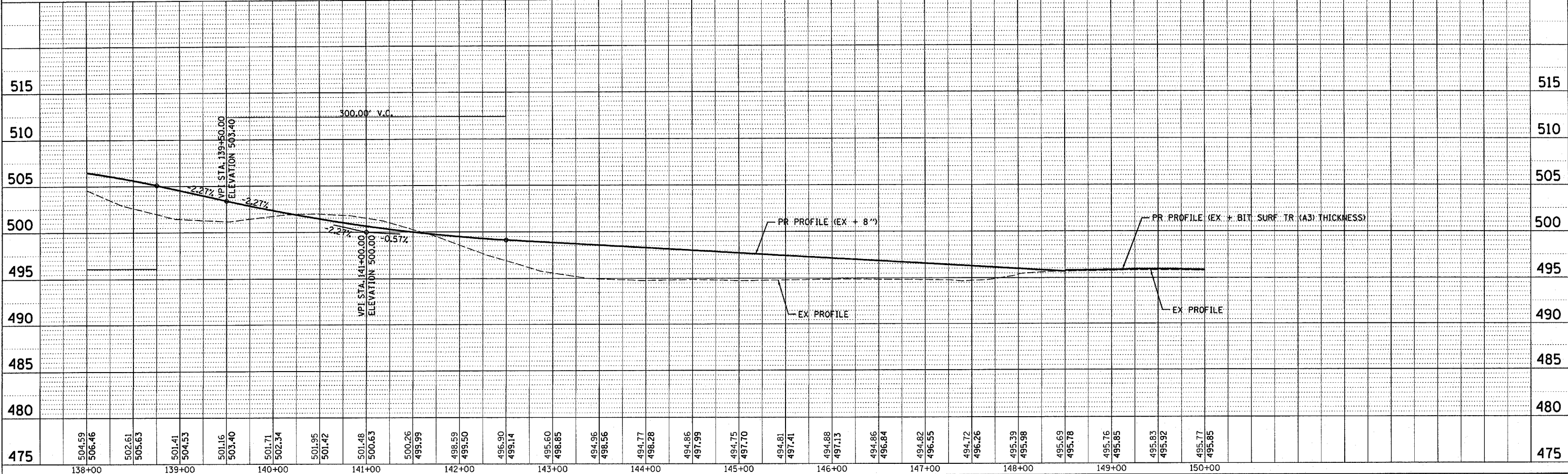
- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004

STA. 138+00 TO STA. 138+50
 STA. 139+00 TO STA. 140+00
 STA. 140+50 TO STA. 142+90
 PR TREE REMOVAL = 0.46 ACRES
 NOTE : (1) MEASURED AREA FOR PAYMENT
 3' OUTSIDE CONST. LIMITS
 TO 3' OUTSIDE CONSTRUCTION LIMITS
 (2) SAVE AS MANY TREES AS POSSIBLE



HUNTER PARKING AREA NO. 4

| Pt. No. | Station | Offset |
|---------|---------|---------|
| 1 | 143+19 | 56' RT |
| 2 | 143+52 | 56' RT |
| 3 | 143+85 | 56' RT |
| 4 | 143+19 | 137' RT |
| 5 | 143+52 | 137' RT |
| 6 | 143+85 | 137' RT |
| 7 | 143+44 | 25' RT |
| 8 | 143+60 | 25' RT |



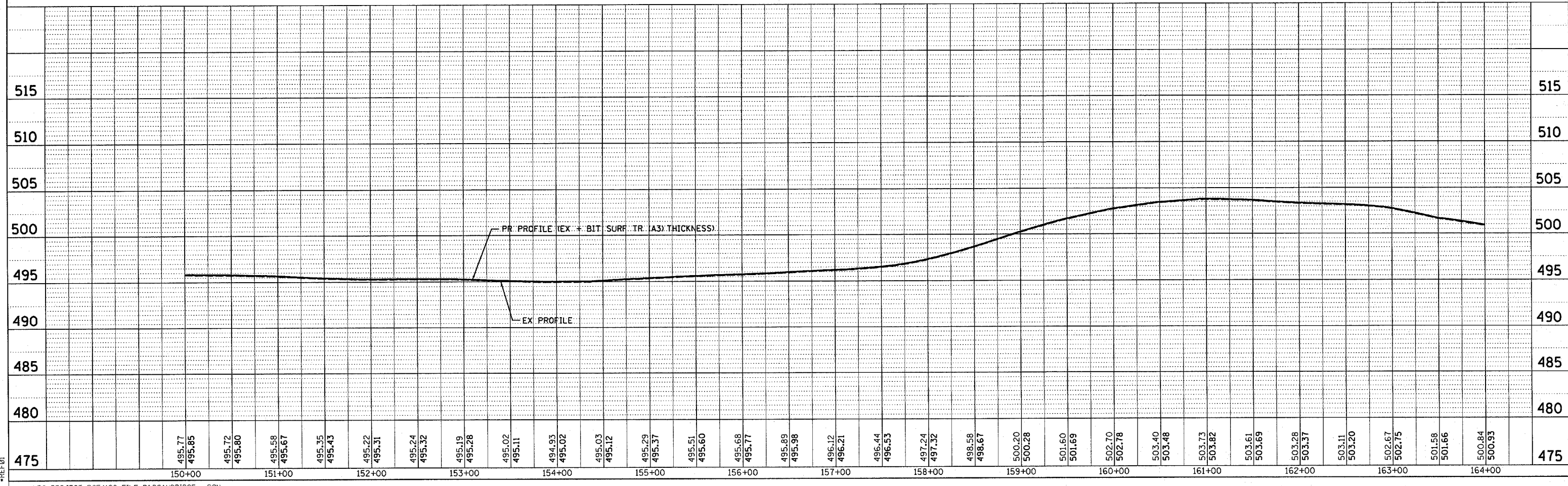
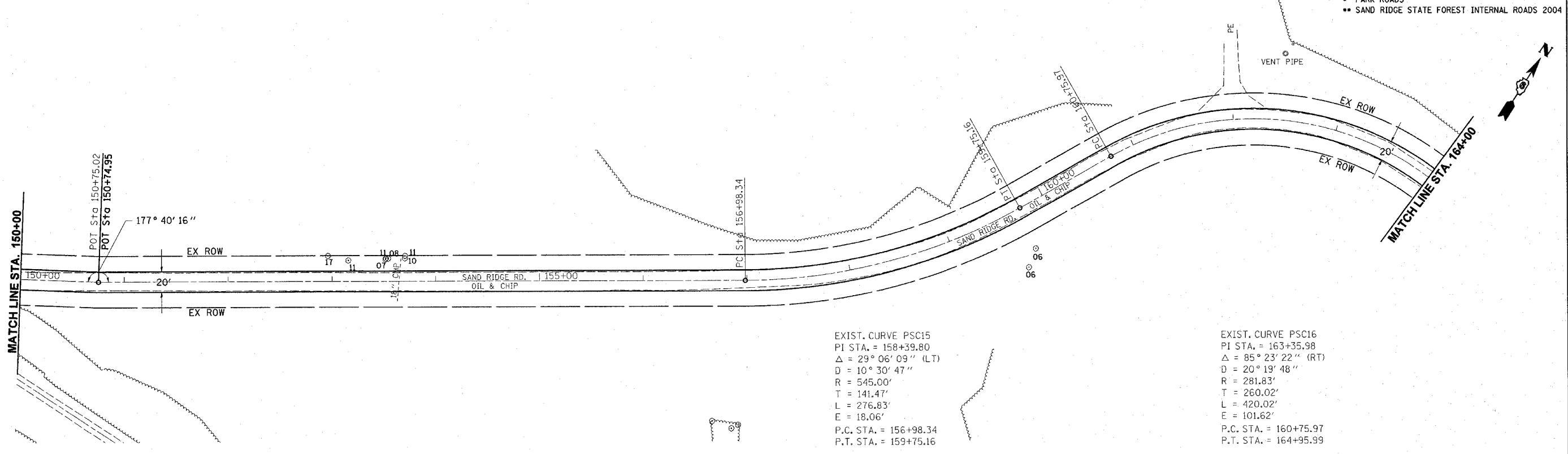
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PROJECT: D654196 SANDRIDGE.DGN
 2/6/2004
 REF: 01

| | | | | |
|---------------------|----------|------------------|--------------|-----------|
| CONTRACT NO. 72118 | | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| * | ** | MASON | 80 | 32 |
| STA. 150+00 | | TO STA. 164+00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

- * PARK ROADS
- ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004



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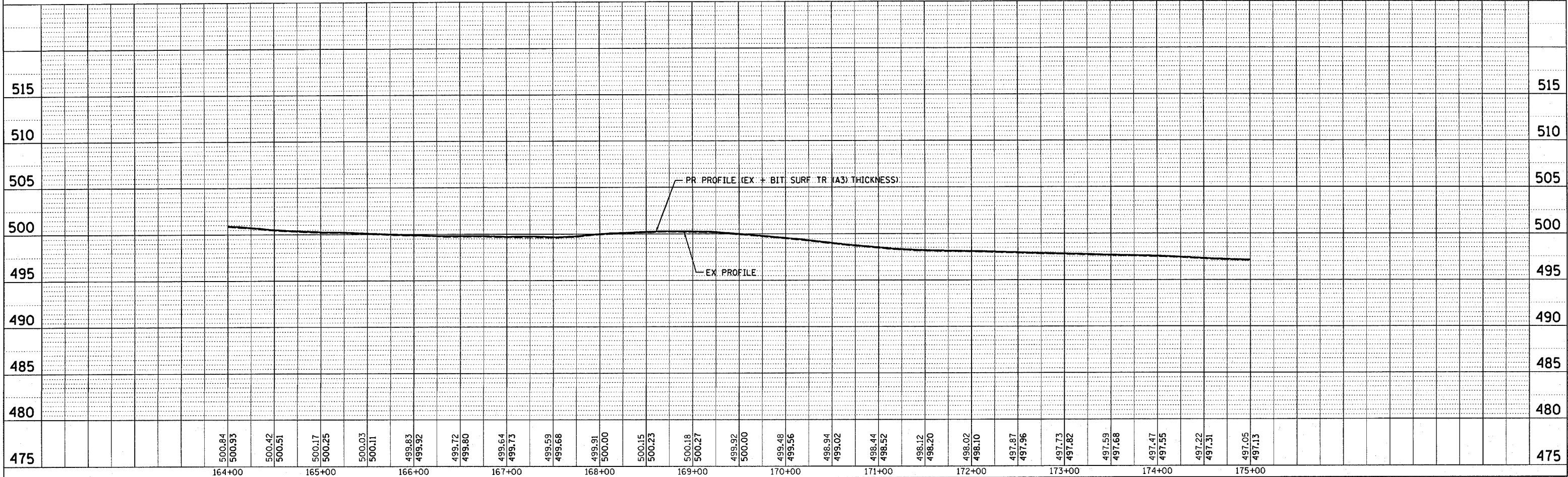
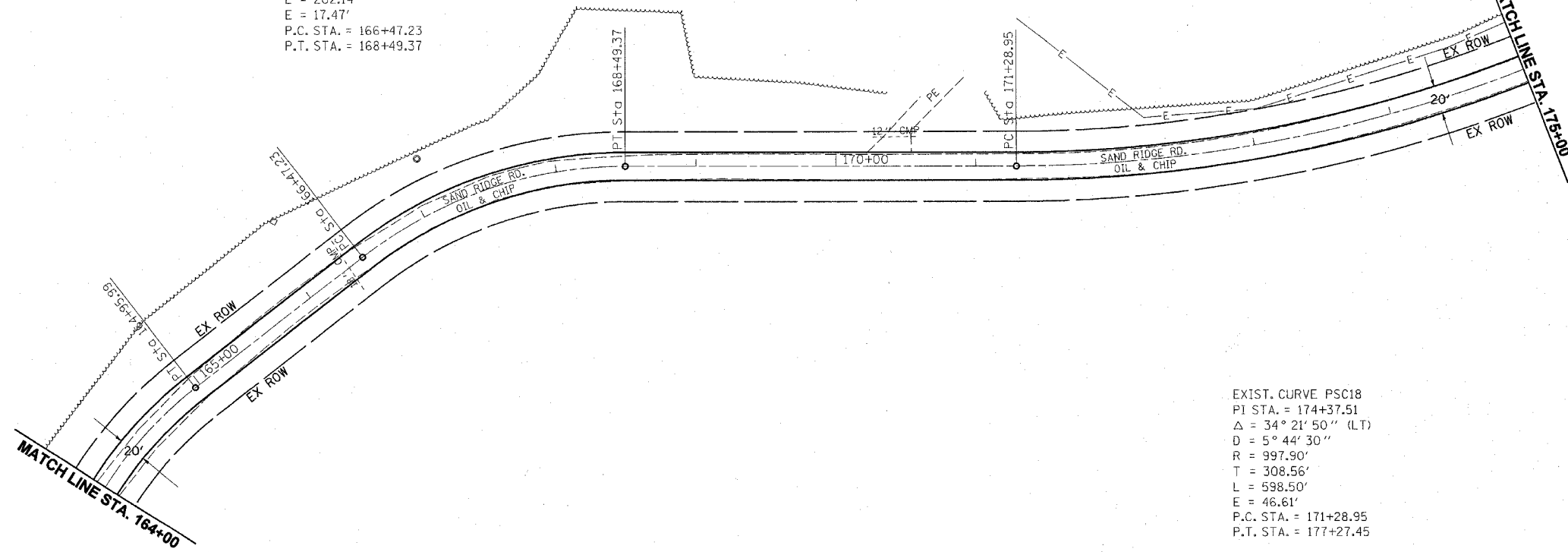
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 2/6/2004
 -REF 01

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004

EXIST. CURVE PSC17
 PI STA. = 167+52.13
 $\Delta = 37^\circ 49' 13''$ (RT)
 $D = 18^\circ 42' 36''$
 $R = 306.23'$
 $T = 104.91'$
 $L = 202.14'$
 $E = 17.47'$
 P.C. STA. = 166+47.23
 P.T. STA. = 168+49.37

EXIST. CURVE PSC18
 PI STA. = 174+37.51
 $\Delta = 34^\circ 21' 50''$ (LT)
 $D = 5^\circ 44' 30''$
 $R = 997.90'$
 $T = 308.56'$
 $L = 598.50'$
 $E = 46.61'$
 P.C. STA. = 171+28.95
 P.T. STA. = 177+27.45



| PLAN | DATE |
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| ALIGNED | |
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| CREATED | |
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| DATE | |
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| PROFILE | DATE |
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| PLotted | |
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| NOTE BOOK | |
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| DATE | |
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 2/5/2004
 *REF 01

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|---------------------|-----------|------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | MASON | 86 | 34 |
| STA. 175+00 | | TO STA. 185+00 | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004

EXIST. CURVE PSC19
 PI STA. = 178+21.61
 $\Delta = 25^\circ 16' 10''$ (LT)
 $D = 24^\circ 01' 41''$
 $R = 238.45'$
 $T = 53.45'$
 $L = 105.17'$
 $E = 5.92'$
 P.C. STA. = 177+68.15
 P.T. STA. = 178+73.32

STA 176+70.00 (0° SKEW)
 PR PIPE CULV 18" x 30"
 TY 1, CS/AA
 15' LT DSFL = 494.63
 15' LT USFL = 494.74
 2 - PRC FL END SEC. 18" (STD 542301)

STA 177+20.06 (EXIST SAND RIDGE RD.) =
 STA. 177+20.00 (PROP SAND RIDGE RD.)
 STA 300+89.07 SITE OFFICE ROAD

EXIST. CURVE R635
 PI STA. = 302+59.64
 $\Delta = 21^\circ 36' 10''$ (LT)
 $D = 14^\circ 51' 12''$
 $R = 385.74'$
 $T = 73.59'$
 $L = 145.44'$
 $E = 6.96'$
 P.C. STA. = 301+86.04
 P.T. STA. = 303+31.48

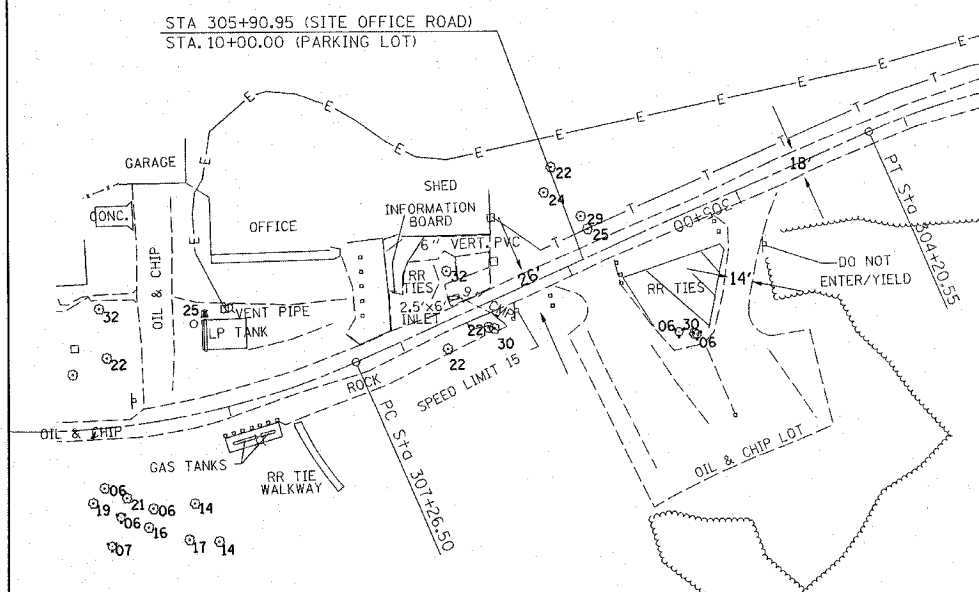
EXIST. CURVE 102
 PI STA. = 300+51.29
 $\Delta = 62^\circ 05' 47''$ (RT)
 $D = 114^\circ 35' 30''$
 $R = 50.00'$
 $T = 30.10'$
 $L = 54.19'$
 $E = 8.36'$
 P.C. STA. = 300+21.19
 P.T. STA. = 300+75.38

SAND RIDGE STATE FOREST HEADQUARTERS

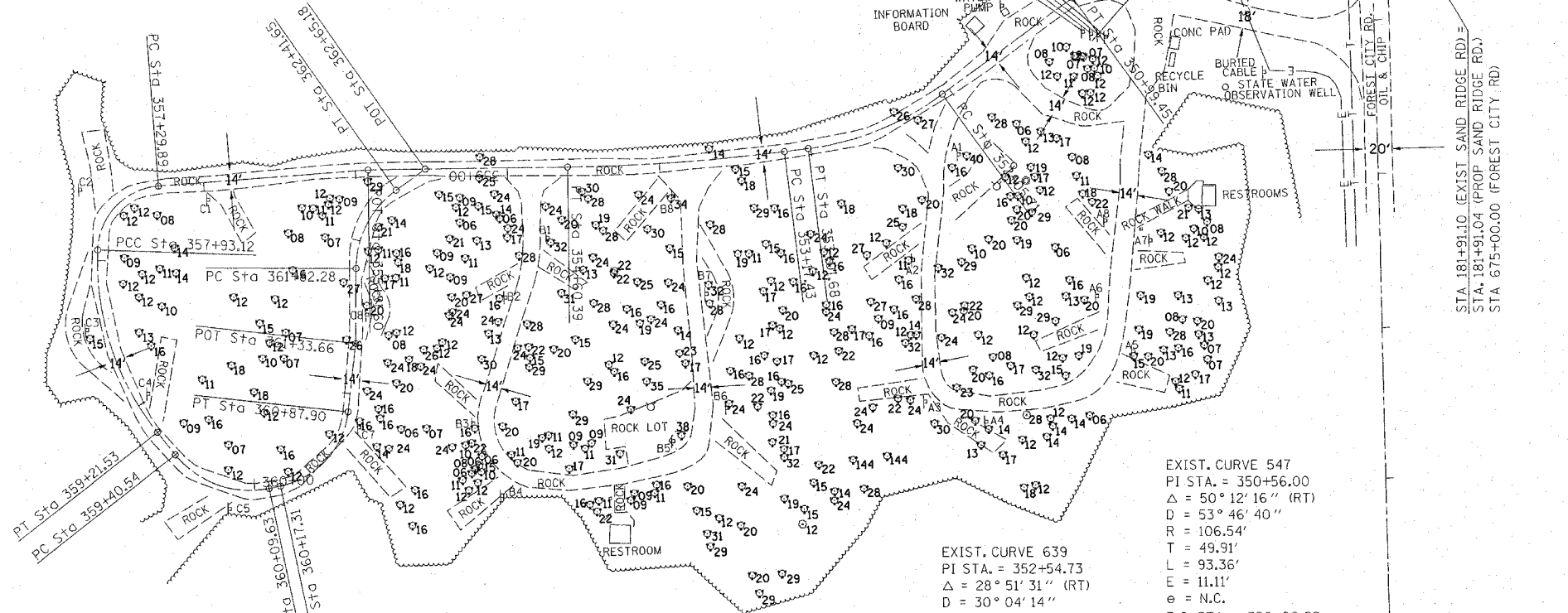
STA 183+39.47 (EXIST SAND RIDGE RD.) =
 STA. 183+39.41 (PROP SAND RIDGE RD.)
 STA 350+00.00 (PINE CAMPGROUND RD.)

LIMITS OF IMPROVEMENT
 STA 183+61.86 (EXIST SAND RIDGE RD.) =
 STA. 183+61.80 (PROP SAND RIDGE RD.)
 STA 400+00.00 (CACTUS DR)
 STA. 185+50.12
 END OF IMPROVEMENT
 SAND RIDGE RD

STA 305+90.95 (SITE OFFICE ROAD)
 STA. 10+00.00 (PARKING LOT)



EXIST. CURVE R636
 PI STA. = 307+35.87
 $\Delta = 25^\circ 26' 58''$ (RT)
 $D = 13^\circ 08' 37''$
 $R = 435.93'$
 $T = 98.44'$
 $L = 193.63'$
 $E = 10.98'$
 P.C. STA. = 306+37.43
 P.T. STA. = 308+31.06



EXIST. CURVE 547
 PI STA. = 350+56.00
 $\Delta = 50^\circ 12' 16''$ (RT)
 $D = 53^\circ 46' 40''$
 $R = 106.54'$
 $T = 49.91'$
 $L = 93.36'$
 $E = 11.11'$
 $e = N.C.$
 P.C. STA. = 350+06.09
 P.T. STA. = 350+99.45

EXIST. CURVE 639
 PI STA. = 352+54.73
 $\Delta = 28^\circ 51' 31''$ (RT)
 $D = 30^\circ 04' 14''$
 $R = 190.54'$
 $T = 49.03'$
 $L = 95.97'$
 $E = 6.21'$
 $e = N.C.$
 P.C. STA. = 352+05.71
 P.T. STA. = 353+01.68

EXIST. CURVE 643
 PI STA. = 358+60.10
 $\Delta = 40^\circ 11' 48''$ (LT)
 $D = 31^\circ 18' 20''$
 $R = 183.02'$
 $T = 66.97'$
 $L = 128.40'$
 $E = 11.87'$
 $e = N.C.$
 P.C. STA. = 357+93.13
 P.T. STA. = 359+21.53

EXIST. CURVE 642
 PI STA. = 357+68.71
 $\Delta = 83^\circ 55' 05''$ (LT)
 $D = 132^\circ 42' 11''$
 $R = 43.18'$
 $T = 38.82'$
 $L = 63.24'$
 $E = 14.89'$
 $e = N.C.$
 P.C. STA. = 357+29.89
 P.T. STA. = 357+93.12

EXIST. CURVE 644
 PI STA. = 359+79.12
 $\Delta = 63^\circ 32' 23''$ (LT)
 $D = 91^\circ 58' 17''$
 $R = 62.30'$
 $T = 38.58'$
 $L = 69.09'$
 $E = 10.98'$
 $e = N.C.$
 P.C. STA. = 359+40.54
 P.T. STA. = 360+09.63

EXIST. CURVE 645
 PI STA. = 360+58.10
 $\Delta = 71^\circ 51' 21''$ (LT)
 $D = 101^\circ 47' 52''$
 $R = 56.28'$
 $T = 40.78'$
 $L = 70.59'$
 $E = 13.22'$
 $e = N.C.$
 P.C. STA. = 360+17.31
 P.T. STA. = 360+87.90

EXIST. CURVE 646
 PI STA. = 362+14.41
 $\Delta = 54^\circ 20' 18''$ (RT)
 $D = 91^\circ 31' 58''$
 $R = 62.60'$
 $T = 32.13'$
 $L = 59.37'$
 $E = 7.76'$
 $e = N.C.$
 P.C. STA. = 361+82.28
 P.T. STA. = 362+41.65

EXIST. CURVE 640
 PI STA. = 353+88.99
 $\Delta = 6^\circ 29' 06''$ (RT)
 $D = 4^\circ 32' 10''$
 $R = 1,263.11'$
 $T = 71.56'$
 $L = 142.96'$
 $E = 2.03'$
 $e = N.C.$
 P.C. STA. = 353+17.43
 P.T. STA. = 354+60.39

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SAND RIDGE ROAD

SCALE: VERT. HORIZ.
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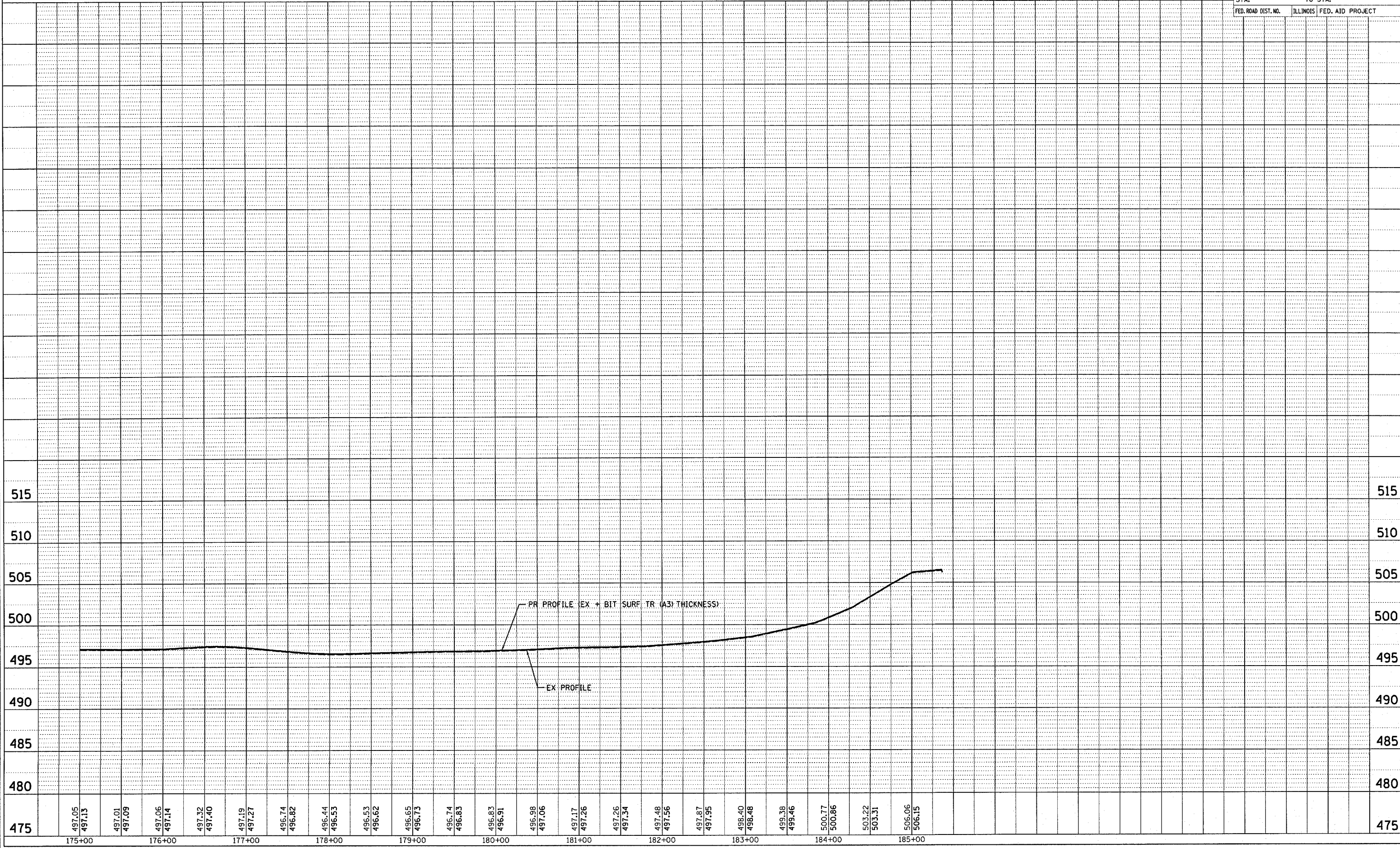
- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004

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NOTE BOOK NO. _____
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NOTE BOOK NO. _____
 STRUCTURE NOTATION CHFD



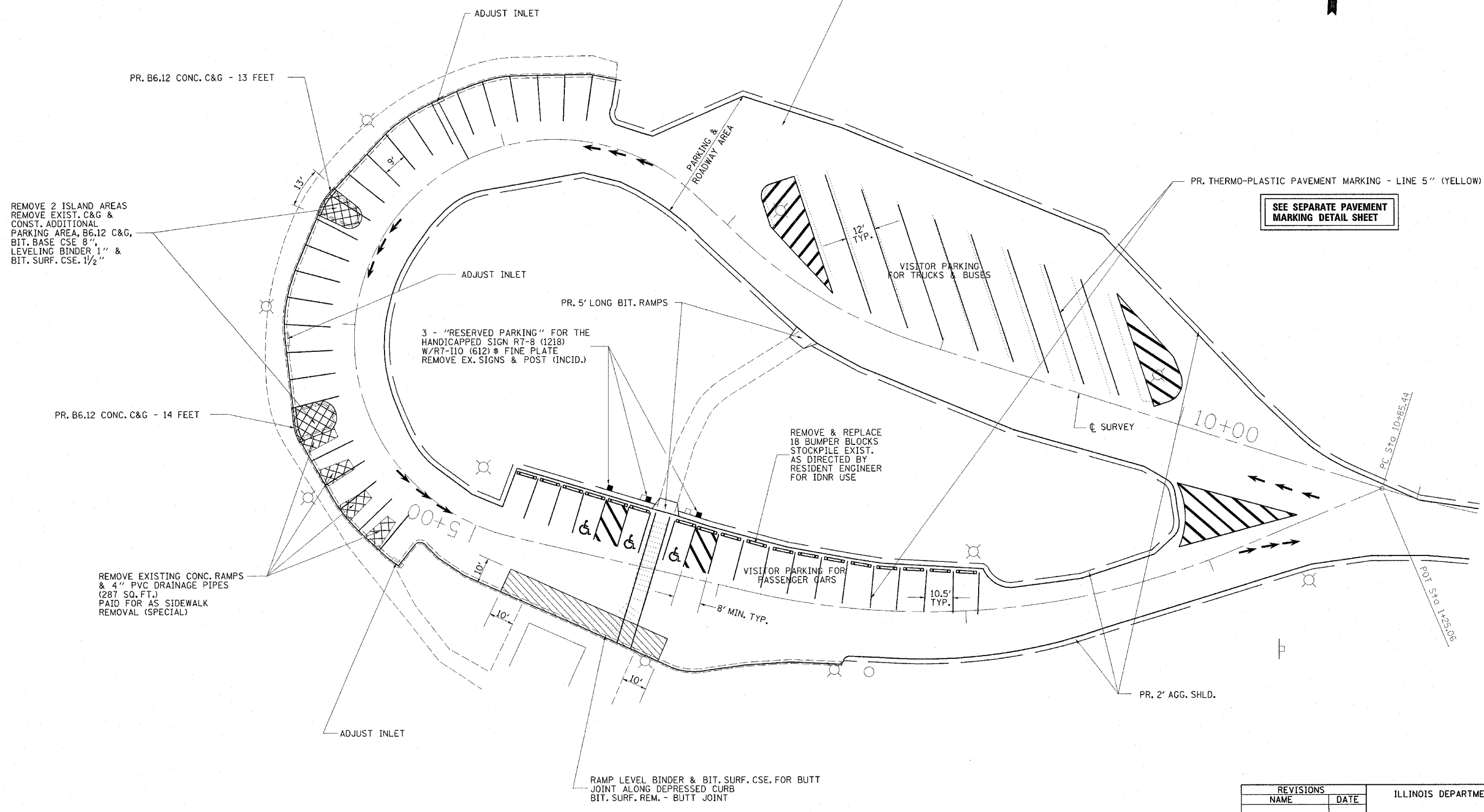
CONTRACT #72118

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| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004



PARKING LOT STA. 1+25.06 TO 10+85.44
 PROP BIT BIND CSE 1 3/4" &
 BIT SURF CSE 1 1/2"



SEE SEPARATE PAVEMENT MARKING DETAIL SHEET

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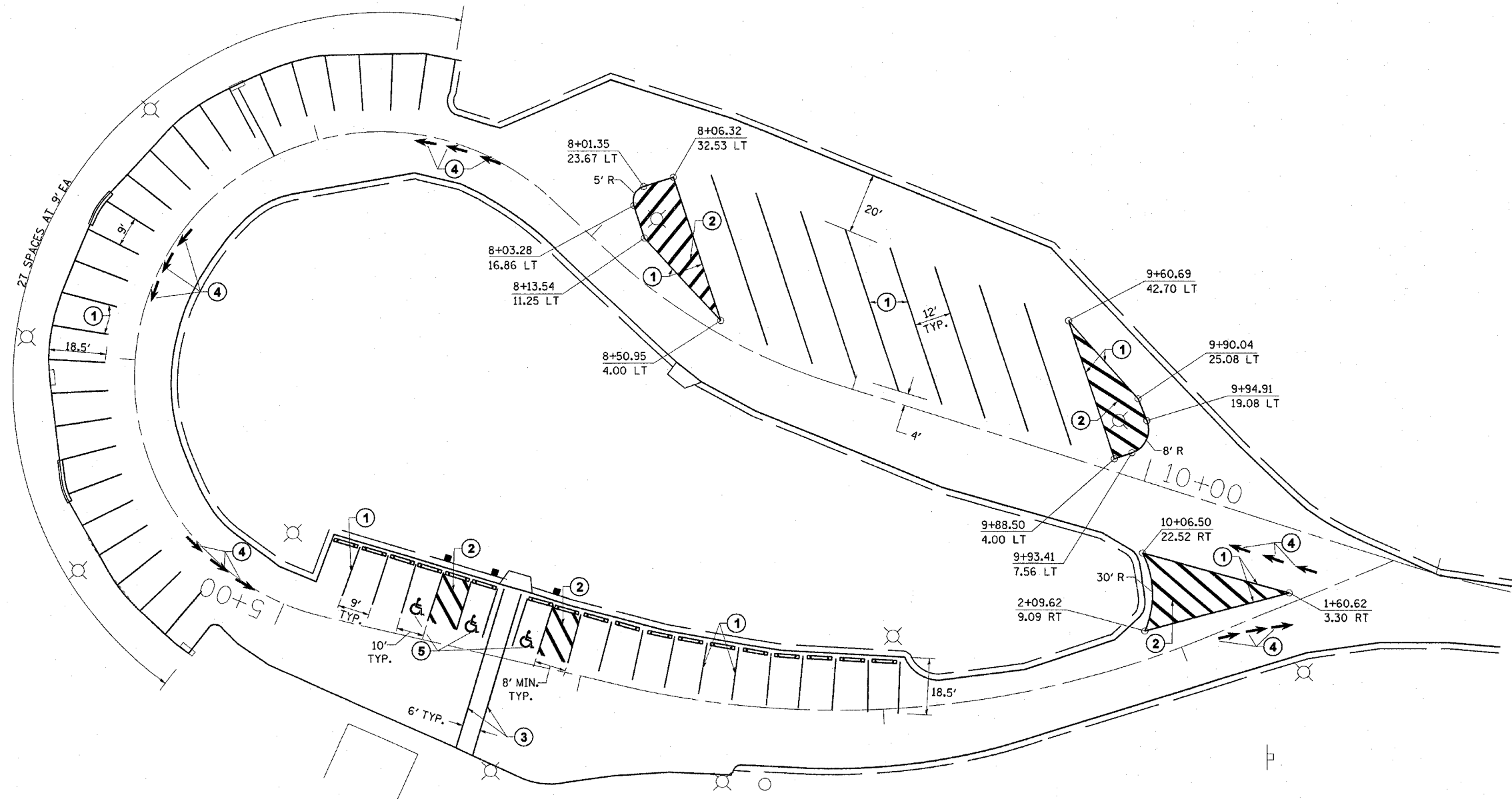
ILLINOIS DEPARTMENT OF TRANSPORTATION
**FISH HATCHERY
 PARKING AREA
 DETAILS**
 SCALE: VERT. _____
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CONTRACT #72118

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| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

- * PARK ROADS
- ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004



PAVEMENT MARKING LEGEND

- ① THERMO-PLASTIC PAVEMENT MARKING - LINE 5" (YELLOW)
- ② THERMO-PLASTIC PAVEMENT MARKING - LINE 5" (WHITE) @ 5' CTS.
- ③ THERMO-PLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- ④ THERMO-PLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)
- ⑤ THERMO-PLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (YELLOW)

NOTE: NO PROPOSED EDGE LINE STRIPING, EXCEPT AS CALLED OUT.

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**FISH HATCHERY
PAVEMENT MARKING
DETAILS**

SCALE: VERT. N/A
HORIZ. 1"=20'
DATE DEC. 2003

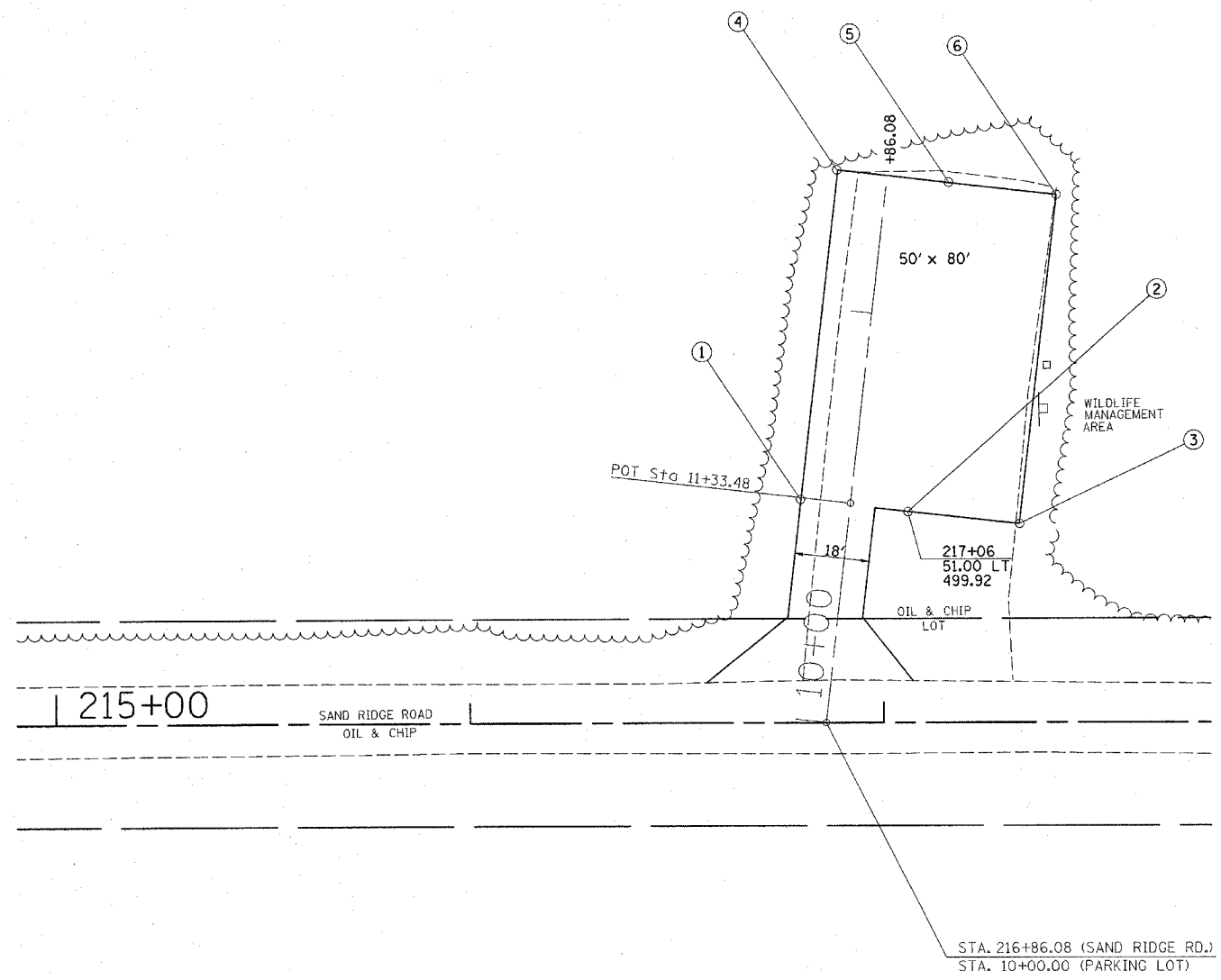
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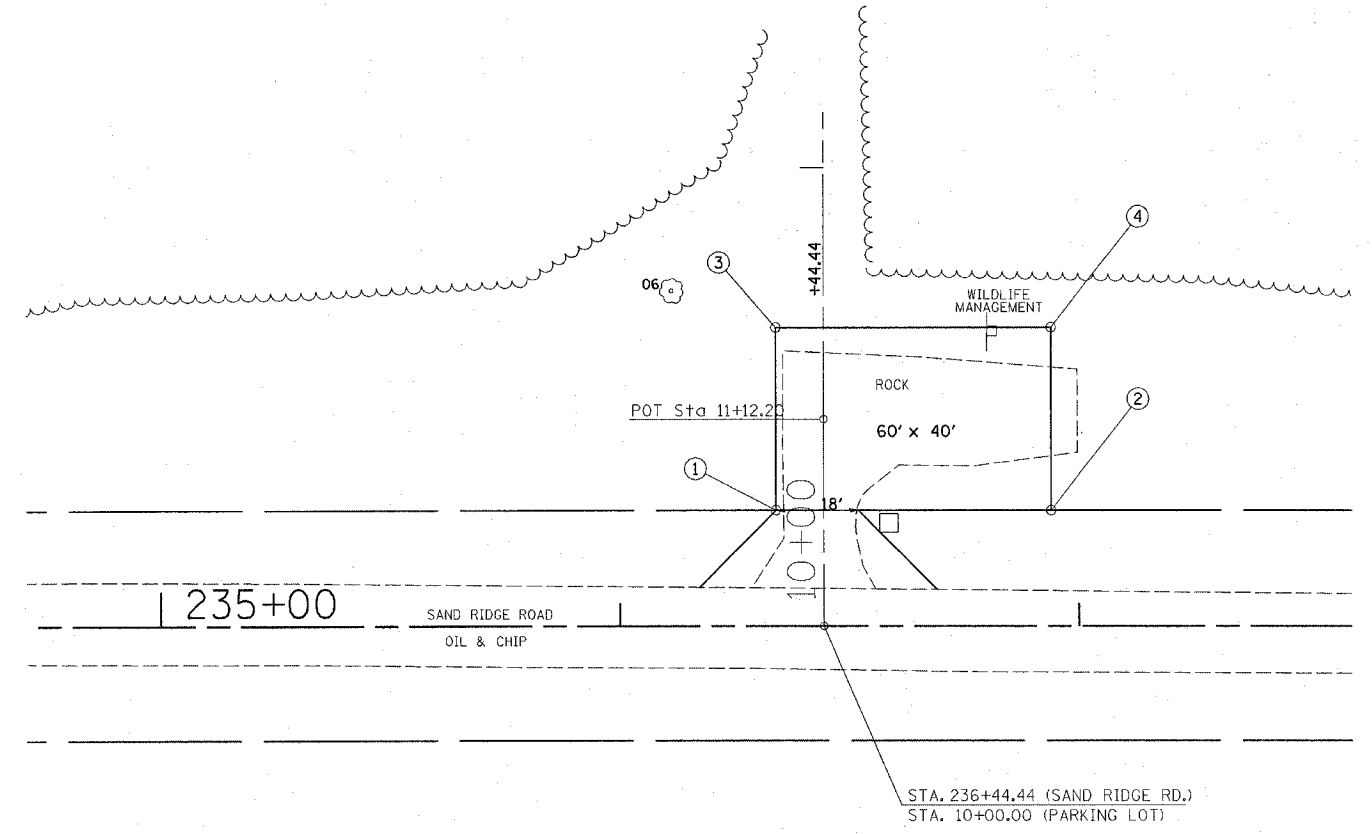
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- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004



HUNTER PARKING AREA NO. 5

| Pt. No. | Station | OffSet |
|---------|---------|---------|
| 1 | 216+80 | 54' LT |
| 2 | 217+06 | 51' LT |
| 3 | 217+33 | 48' LT |
| 4 | 216+89 | 134' LT |
| 5 | 217+16 | 131' LT |
| 6 | 217+42 | 128' LT |



HUNTER PARKING AREA NO. 6

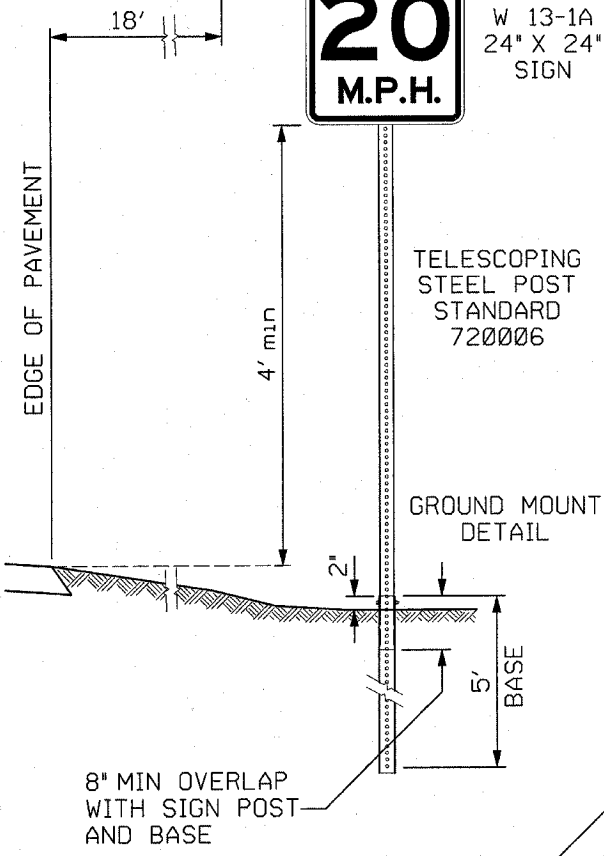
| Pt. No. | Station | OffSet |
|---------|---------|--------|
| 1 | 236+34 | 25' LT |
| 2 | 236+94 | 25' LT |
| 3 | 236+34 | 65' LT |
| 4 | 236+94 | 65' LT |

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ILLINOIS DEPARTMENT OF TRANSPORTATION
PARKING AREA DETAILS
SAND RIDGE ROAD

SCALE: VERT. _____
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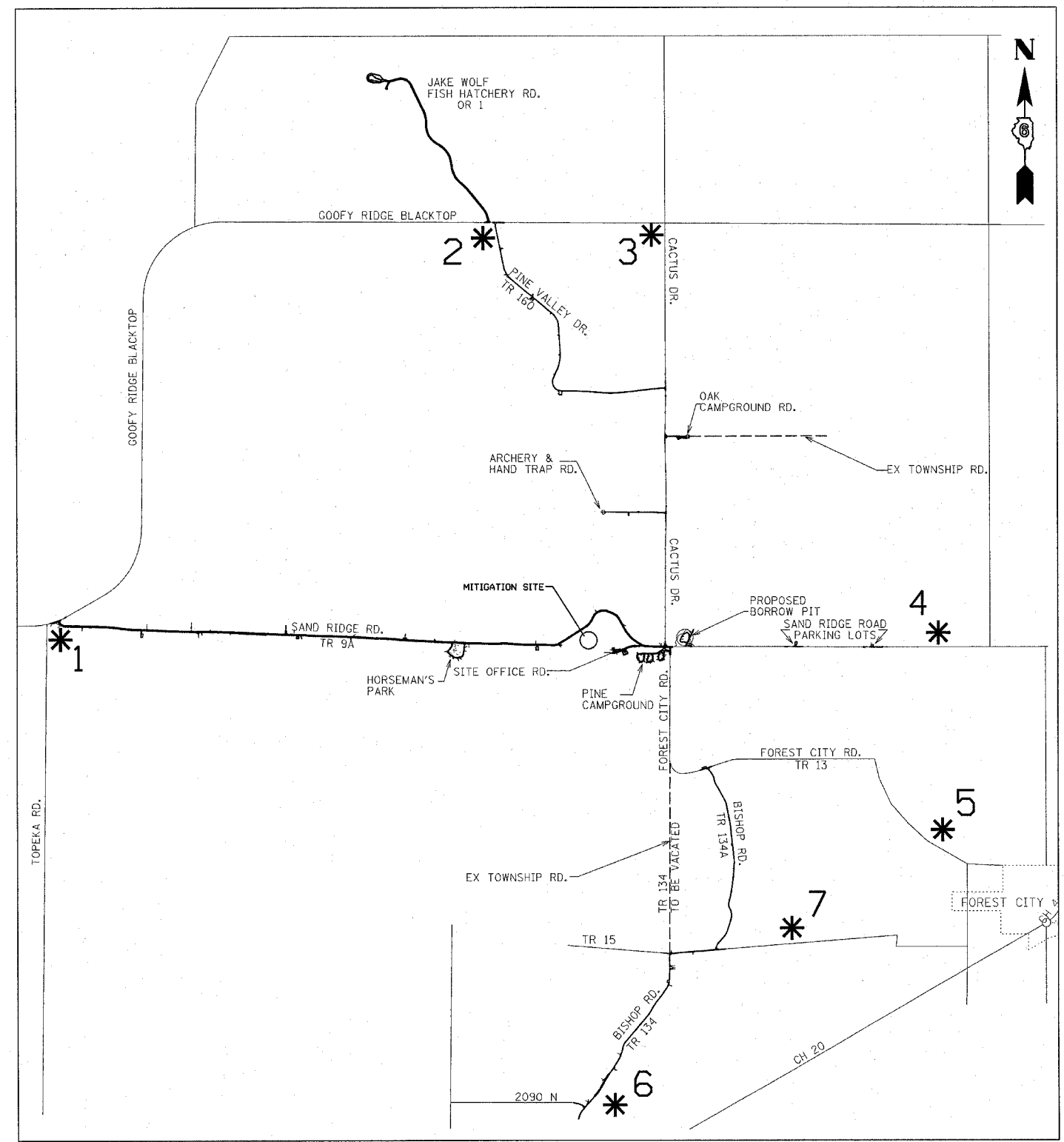
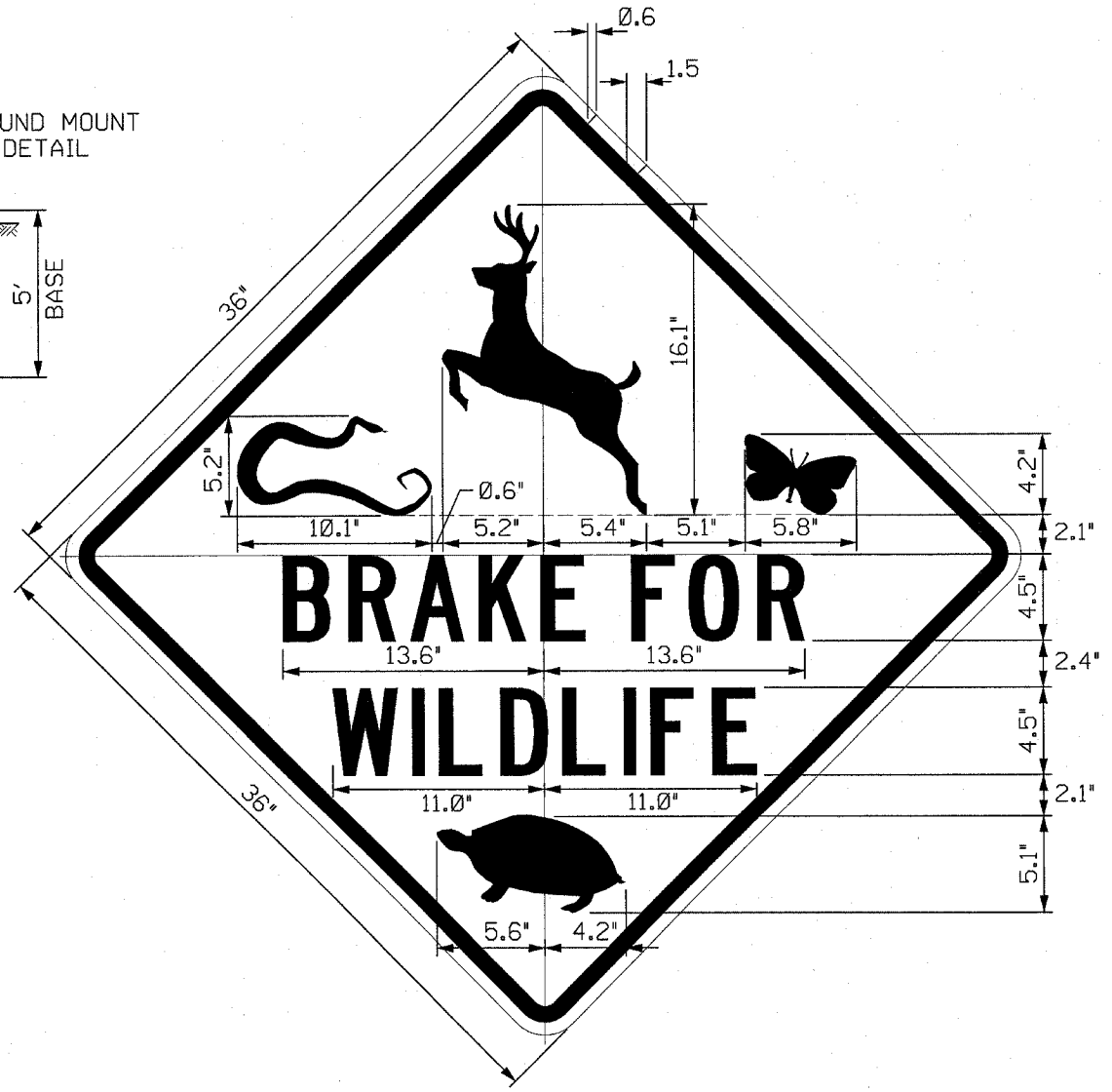
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LETTER SIZES & SPACING

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|----------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 4.5" | B R A K E F O R | | | | | | | | | | | | | | |
| SERIES C | 2.46 | 0.95 | 2.46 | 0.75 | 2.81 | 0.75 | 2.46 | 0.75 | 2.25 | 2.46 | 2.25 | 0.75 | 2.60 | 0.95 | 2.46 |
| | INCHES | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|----------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 4.5" | W I L D L I F E | | | | | | | | | | | | | | |
| SERIES C | 3.38 | 0.75 | 0.63 | 0.75 | 2.25 | 0.95 | 2.46 | 0.75 | 2.25 | 0.95 | 0.63 | 0.75 | 2.25 | 0.95 | 2.25 |
| | INCHES | | | | | | | | | | | | | | |



* "BRAKE FOR WILDLIFE" SIGN LOCATIONS

NOTE: LOCATIONS OF SIGNS SHOWN SHALL CORRESPOND TO ENTRANCES OF SAND RIDGE STATE FOREST.

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ILLINOIS DEPARTMENT OF TRANSPORTATION

"BRAKE FOR WILDLIFE" SIGN LOCATIONS

SAND RIDGE STATE FOREST

SCALE: VERT. _____

HORIZ. _____

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CHECKED BY _____

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

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004

STORM WATER POLLUTION PREVENTION PLAN

Route: Park Roads Marked: Sand Ridge State Forest Park Roads
 Section: Sand Ridge State Forest 2004 Project No.: NA
 County: Mason Contract # 72118

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10 _____ issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

 (Signature) (Date)

 (Title)

Note: The above boxed in area will be filled out by IDOT - Construction after the award of the contract to obtain the required NPDES permit.

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 water pollution prevention plan for compliance under NPDES. The Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / 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 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 the 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 erosion control systems and 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 special details and in Standard 280001 of the plans.

The special provisions Temporary Seeding, Temporary Erosion Control Seeding, and Temporary Erosion Control additionally supplement this plan.

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by November 1, 2005.

SITE DESCRIPTION

Description of Construction Activity:

1. The proposed project consists of reconstruction/resurfacing of 4.28 miles of two lane roads, parking areas, and campgrounds in Sand Ridge State Forest and Jake Wolf Memorial Fish Hatchery in Mason County.
2. Construction consists of grading, constructing culverts, bituminous resurfacing, bituminous surface treatment, and other miscellaneous work to complete improvements to the proposed roadways.

Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

1. Tree removal will be completed to clear approximately 1.2 acres of wooded land.
2. Excavation will be completed along the entire length to grade out for proposed roadway ditches and waterways.
3. Excavation will also be completed in proposed cut sections to lower the existing ground elevation to meet the proposed roadway grade/vertical alignment.
4. Embankment will be completed in fill areas to raise the existing ground elevation to meet the proposed roadway grade/vertical alignment.
5. Drainage structures will be installed before and/or during the construction of the excavation and embankment to allow proper drainage across the proposed facilities.
6. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as erosion control fence, hay or straw bale ditch checks, riprap ditch checks, sediment basins, temporary seeding, etc.
7. Placement of permanent erosion control, such as riprap ditch lining, riprap stilling basins, riprap dry dams, excelsior blanket, seeding, etc.
8. Final grading, paving and other miscellaneous items.

Area of Construction Site:

The total drainage area entering and including the construction site is estimated to be 6,400.0 acres in which 11.8 acres will be disturbed by excavation, grading or other activities.

Other Reports, Studies and Plans which Aid 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 the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems. *
3. Site maps indicating drainage patterns and approximate slopes were contained in the project design report, USGS drainage maps, project drainage study, and project plan documents were all utilized for proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

1. Minor tributaries to Clear Lake

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ILLINOIS DEPARTMENT OF TRANSPORTATION
**STORM WATER POLLUTION
 PREVENTION PLAN**

SCALE: VERT.
 DATE: HORIZ.

DRAWN BY
 CHECKED BY

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

* PARK ROADS
 ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

- The area between the existing and proposed right-of-way/temporary easement 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:
 - 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.
 - Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
 - As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, hay or straw bale ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.
 - 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 immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
 - 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 immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
 - At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, hay or straw bale ditch checks, or riprap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesirable conditions.
- 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 complete.
- A third benefit of these filter 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:

- During roadway construction, areas outside the construction slope limits as outlined previous 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.
 - 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.
 - Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
 - As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:
 - Place temporary erosion control systems at locations where water leaves and enters the construction zone
 - Temporary seed highly erodible areas outside the construction slope limits
 - Construct roadside ditches and provide temporary erosion control systems
 - Temporary divert water around proposed culvert locations
 - Build necessary embankment at culvert locations and then excavate and place culvert
 - 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
 - The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.
 - Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in the special provision "Temporary Erosion Control Seeding".

(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.

(g) The Resident Engineer shall inspect the project daily during activities and weekly or after large rains during the winter shutdown 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 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 will be paid for in accordance with Article 109.04 of the Standard Specifications.

(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 costs 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:

- 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.
- 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. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.

Maintenance after Construction:

- Construction is complete after acceptance is received at the final inspection.
- Areas will be inspected on a regular basis by the IDNR Site Manager.
- Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.
- Maintenance crews will also aid in any ditch lining maintenance or in any drainage problems.
- All maintenance will be conducted at times when weather conditions will not cause site damage.

FUTURE CONTRACTS

A Future Contract will be Let to Complete Remainder of Improvements at the Site:
 1. Any required extensive maintenance would be addressed at that time.

DOCUMENTATION

- 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.
- If any violation of the provisions of this plan is identified during the conduct 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
 2200 Church Hill Road, P.O. Box 19276
 Springfield, IL 62794-9276
 Attn: Compliance Assurance Section

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ILLINOIS DEPARTMENT OF TRANSPORTATION
**STORM WATER POLLUTION
 PREVENTION PLAN**

SCALE: VERT. _____
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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: Park Roads Marked: Sand Ridge State Forest Park Roads
 Section: Sand Ridge State Forest 2004 Project No.: N/A
 County: Mason Contract #: 72118

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 _____

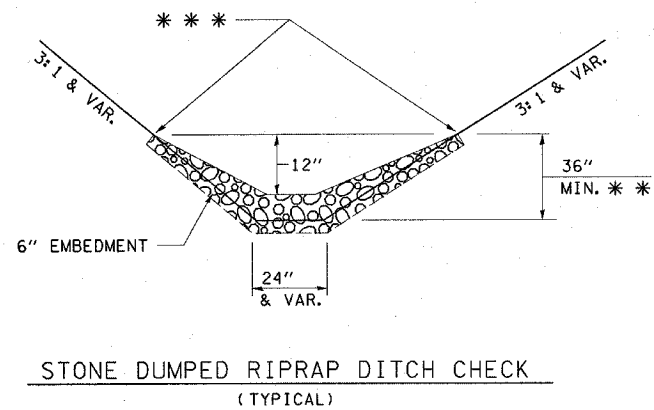
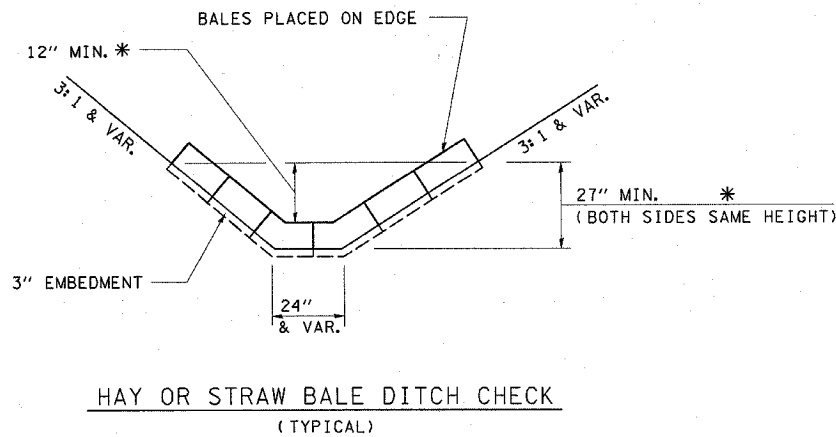
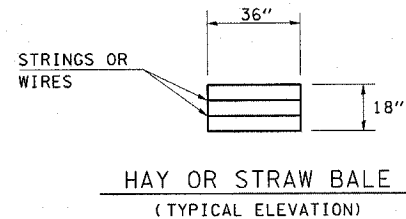
Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.

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| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
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- * BALES SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 12" OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE BALES.
- ** RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 12" OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.
- *** ENDS SHALL BE TIED INTO SLOPES.

LEGEND

(FOR THE STORM WATER POLLUTION PREVENTION PLAN SHEETS)

| ITEM | SYMBOL |
|----------------------------------------------------------------------------------------|------------|
| AGGREGATE (EROSION CONTROL) [STONE DUMPED RIPRAP DITCH CHECKS (Height = 24")] | |
| TEMPORARY DITCH CHECKS (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION) | |
| INLET PIPE PROTECTION (I&PP) | |
| EROSION CONTROL FENCE | |
| EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS) | |
| HEAVY DUTY EXCELSIOR BLANKET | |
| PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS) | |
| ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement) | * [ITEM] * |
| ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation) | [ITEM] |
| DIRECTION OF OVERLAND FLOW | |

NOTE: All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

The symbology on the STORM WATER POLLUTION PREVENTION PLAN sheets does not represent the size or quantity of bales, for number of bales refer to details and notes shown on this sheet and/or as directed by the Engineer.

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ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM WATER POLLUTION
PREVENTION PLAN

SCALE: VERT.
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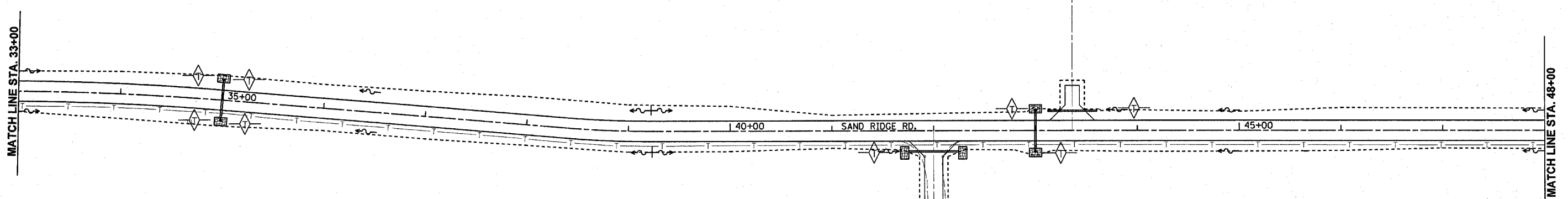
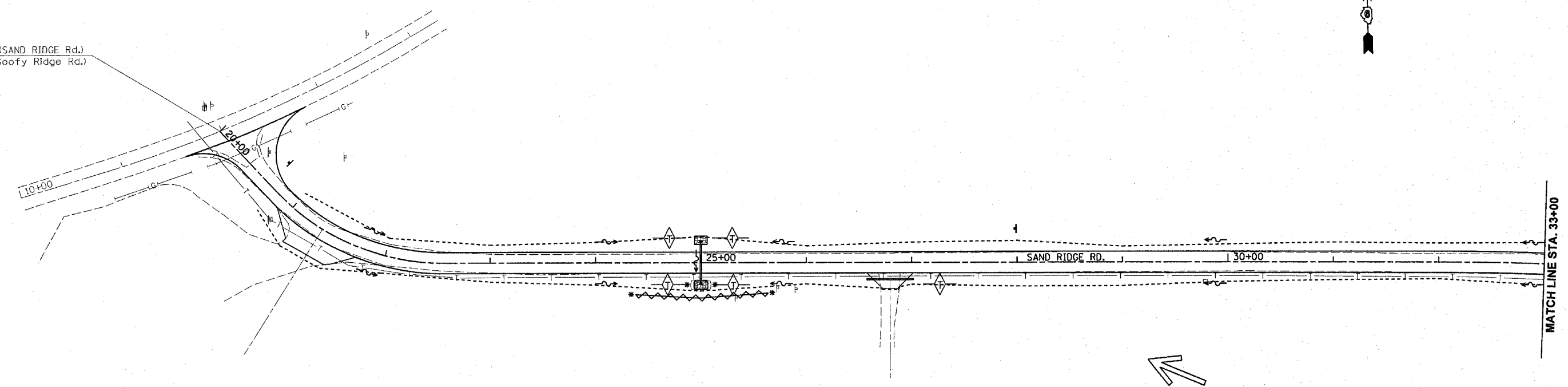
CONTRACT NO. 72118

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|---------------------|---------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| * | ** | MASON | 86 | 44 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- PARK ROADS
- ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004



Sta. 20+00.00 (SAND RIDGE Rd.)
Sta. 11+98.35 (Goofy Ridge Rd.)



| REVISIONS | |
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| NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

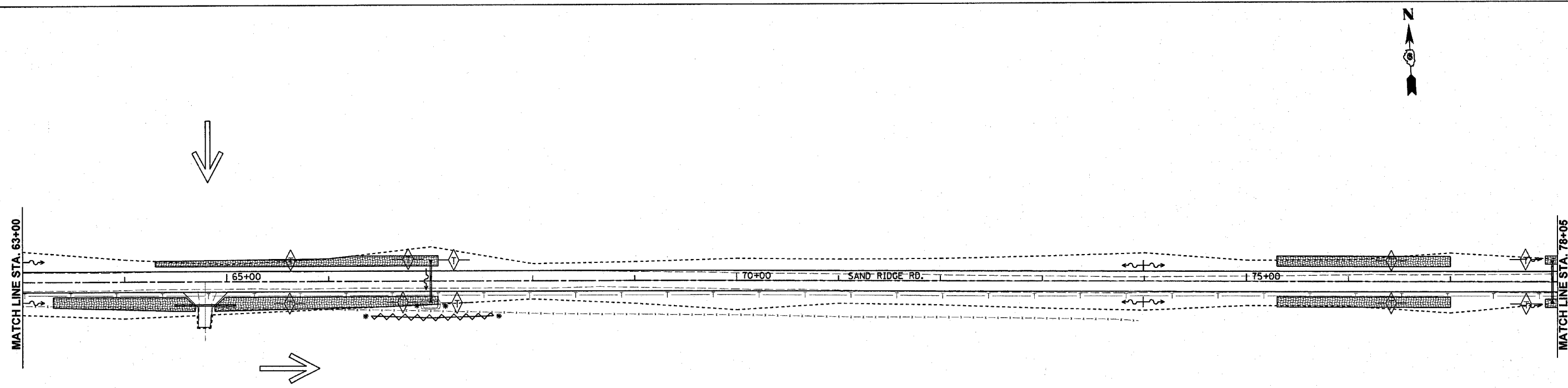
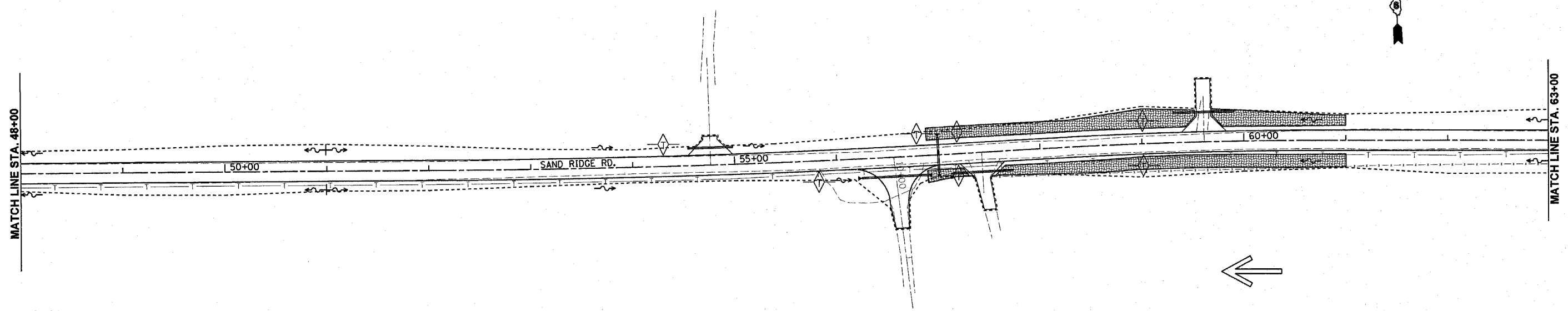
SCALE: VERT. N/A
HORIZ. 1" = 50'

DATE DEC. 2003

DRAWN BY EJW
CHECKED BY JCN

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| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | * | ** | MASON | 86 | 45 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | | | |

- * PARK ROADS
- ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004



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ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

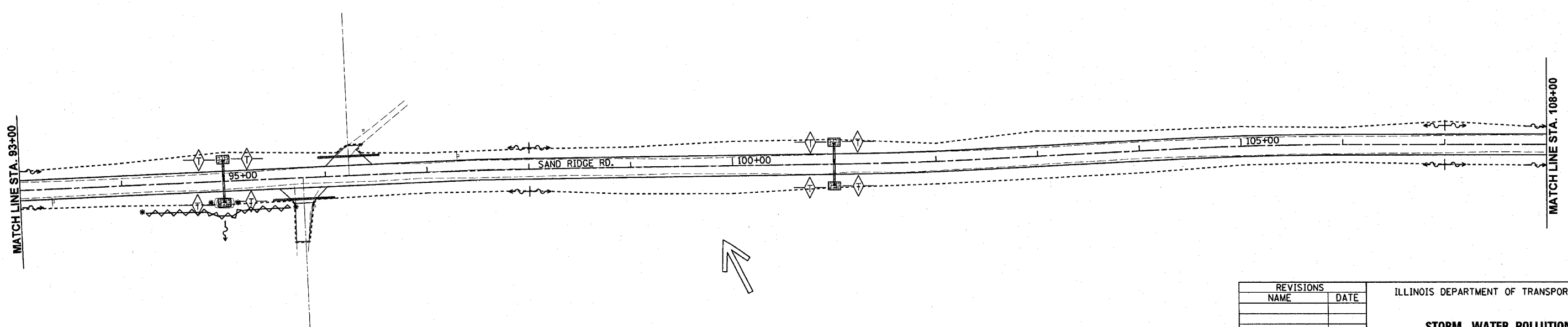
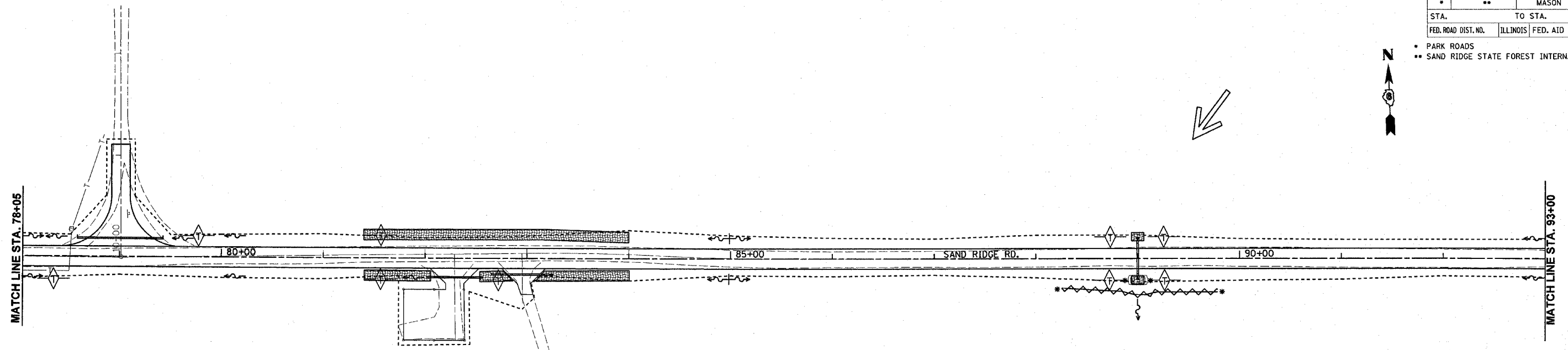
SCALE: VERT. N/A
 HORIZ. 1" = 50'

DATE DEC. 2003

DRAWN BY EJW
 CHECKED BY JCN

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|---------------------|--|-----------|------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | * | ** | MASON | 86 | 46 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | | | |

- * PARK ROADS
- ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004



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ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: VERT. N/A
 HORIZ. 1" = 50'

DATE DEC. 2003

DRAWN BY EJW
 CHECKED BY JCN

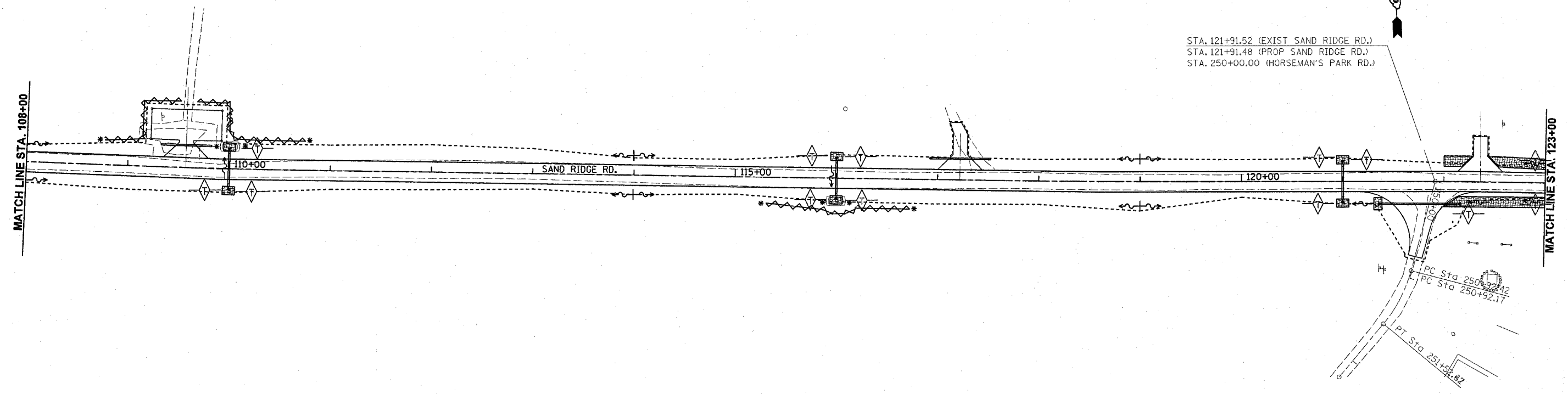
CONTRACT NO. 72118

| | | | | |
|---------------------|----------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| * | ** | MASON | 86 | 47 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

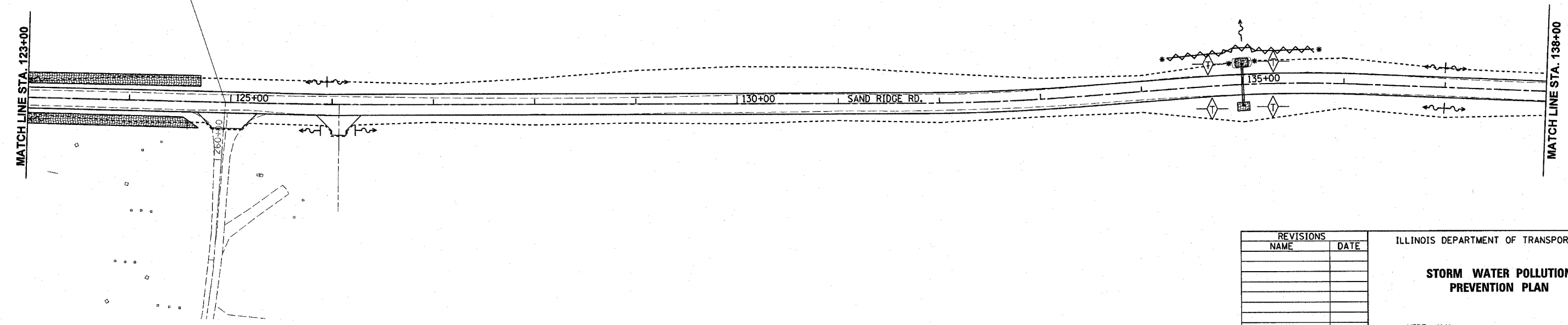
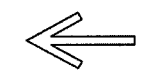
- * PARK ROADS
- ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004



STA. 121+91.52 (EXIST SAND RIDGE RD.)
 STA. 121+91.48 (PROP SAND RIDGE RD.)
 STA. 250+00.00 (HORSEMAN'S PARK RD.)



STA. 124+94.78 (EXIST SAND RIDGE RD.)
 STA. 124+94.73 (PROP SAND RIDGE RD.)
 STA. 260+56.11 (HORSEMAN'S PARK RD.)



| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

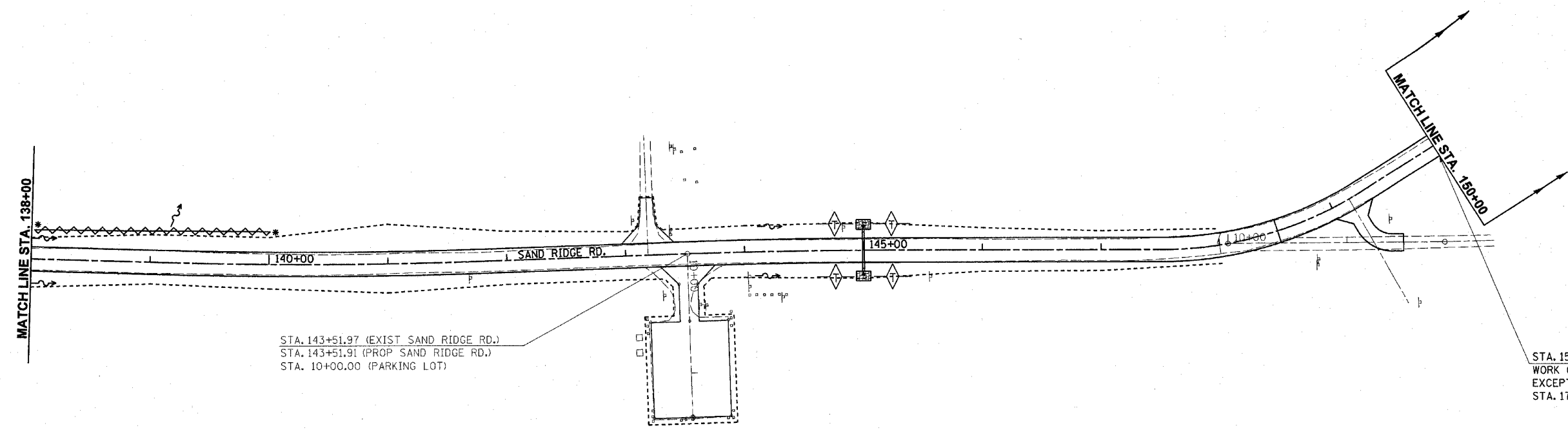
SCALE: VERT. N/A
 HORIZ. 1" = 50'

DATE: DEC. 2003

DRAWN BY: EJW
 CHECKED BY: JCN

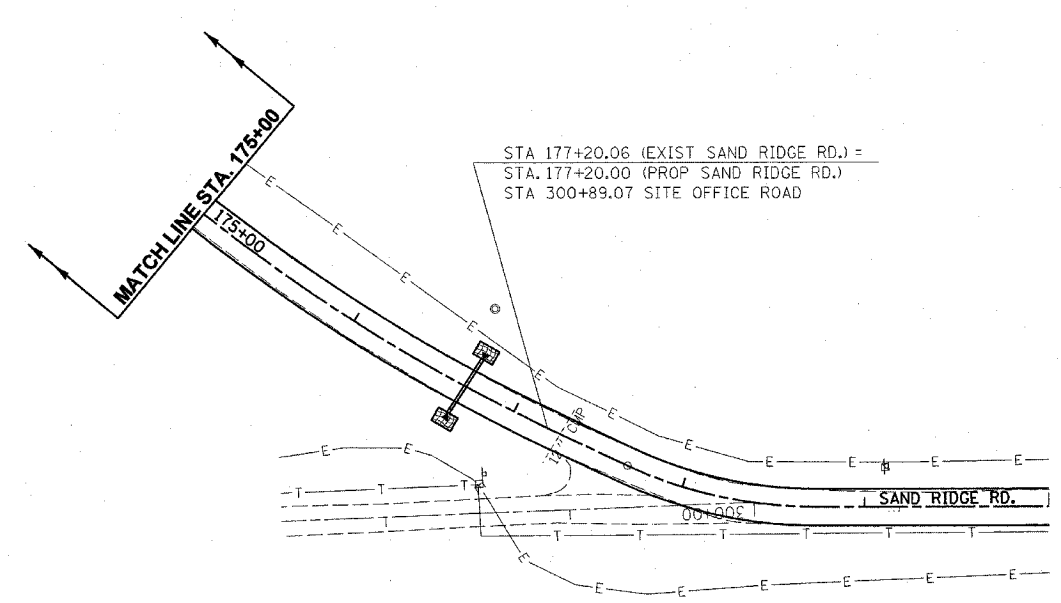
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|---------------------|-----------|------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | * | ** | MASON | 26 | 48 |
| STA. | TO STA. | | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |

- * PARK ROADS
- ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004



STA. 143+51.97 (EXIST SAND RIDGE RD.)
 STA. 143+51.91 (PROP SAND RIDGE RD.)
 STA. 10+00.00 (PARKING LOT)

STA. 150+94.78 END WORK
 WORK ON SAND RIDGE ROAD
 EXCEPT FOR CULVERT AT
 STA. 176+70



STA 177+20.06 (EXIST SAND RIDGE RD.) =
 STA. 177+20.00 (PROP SAND RIDGE RD.)
 STA 300+89.07 SITE OFFICE ROAD



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ILLINOIS DEPARTMENT OF TRANSPORTATION

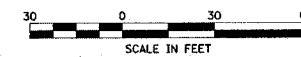
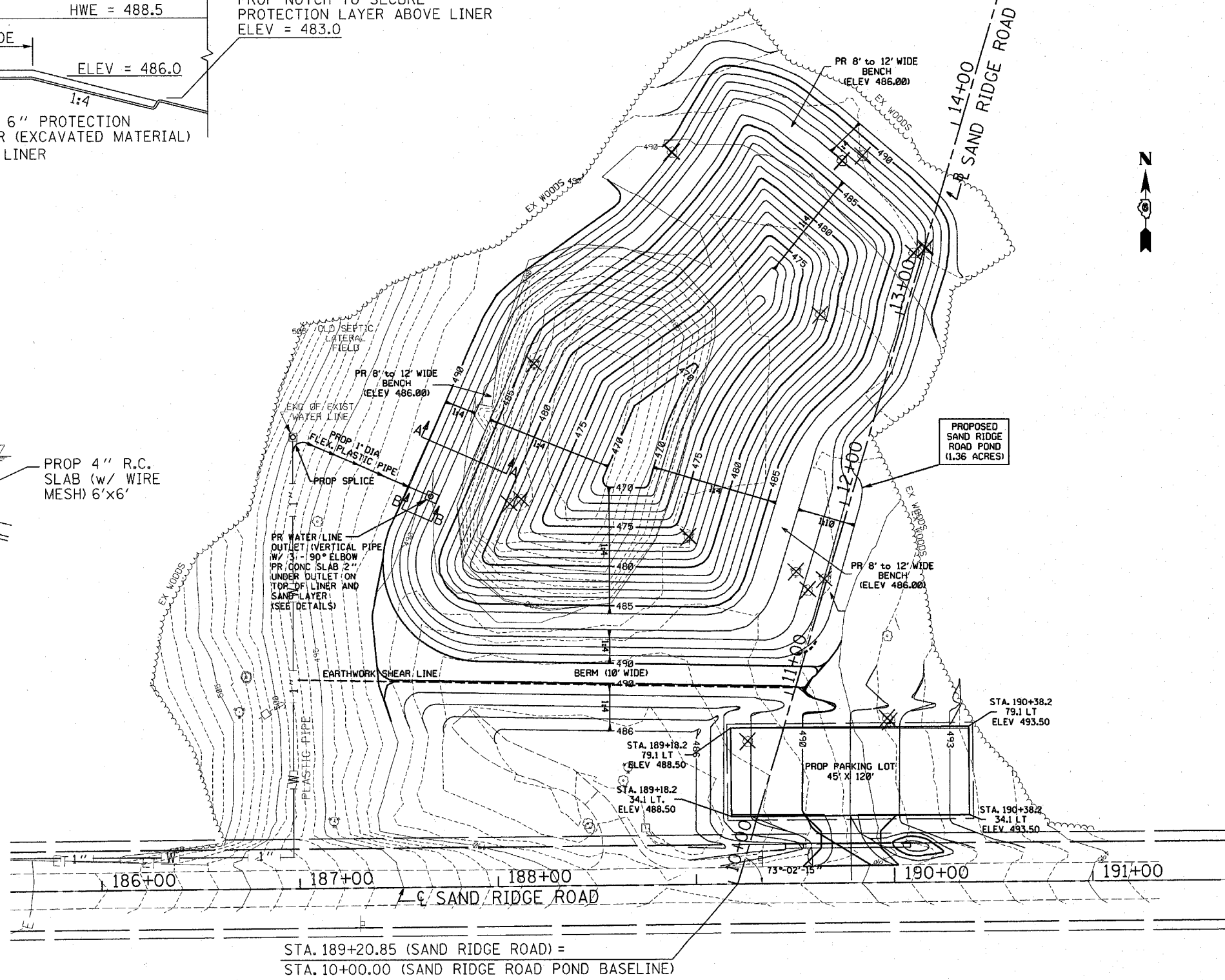
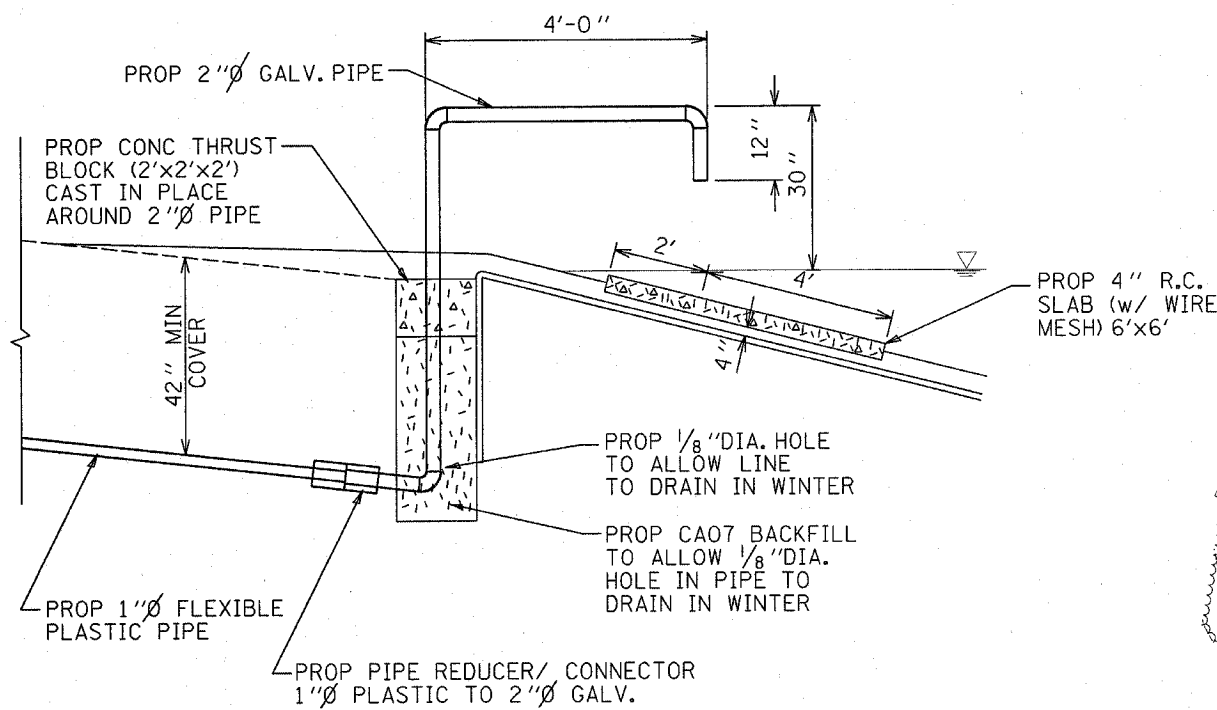
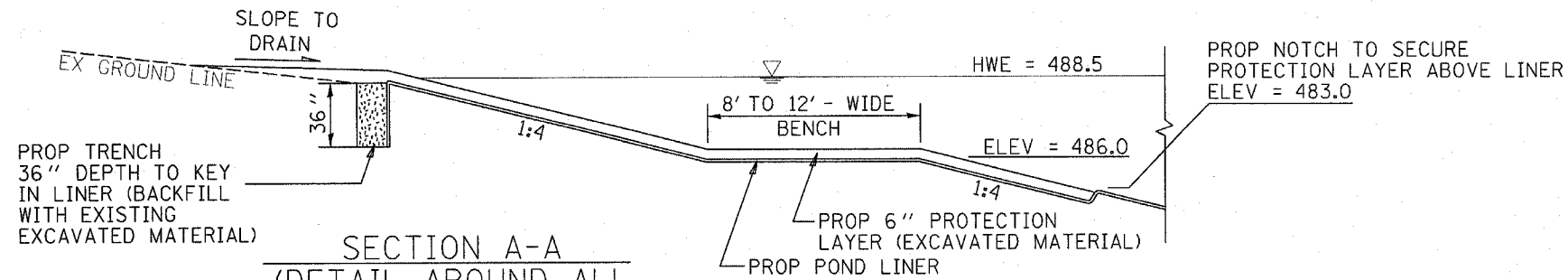
STORM WATER POLLUTION PREVENTION PLAN

SCALE: VERT. N/A
 HORIZ. 1" = 50'

DATE DEC. 2003

DRAWN BY EJW
 CHECKED BY JCN

| | | | | |
|-------------------------------------------------------------------------------------------------------------------|---------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| . | ** | MASON | 86 | 49 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| <ul style="list-style-type: none"> PARK ROADS SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |

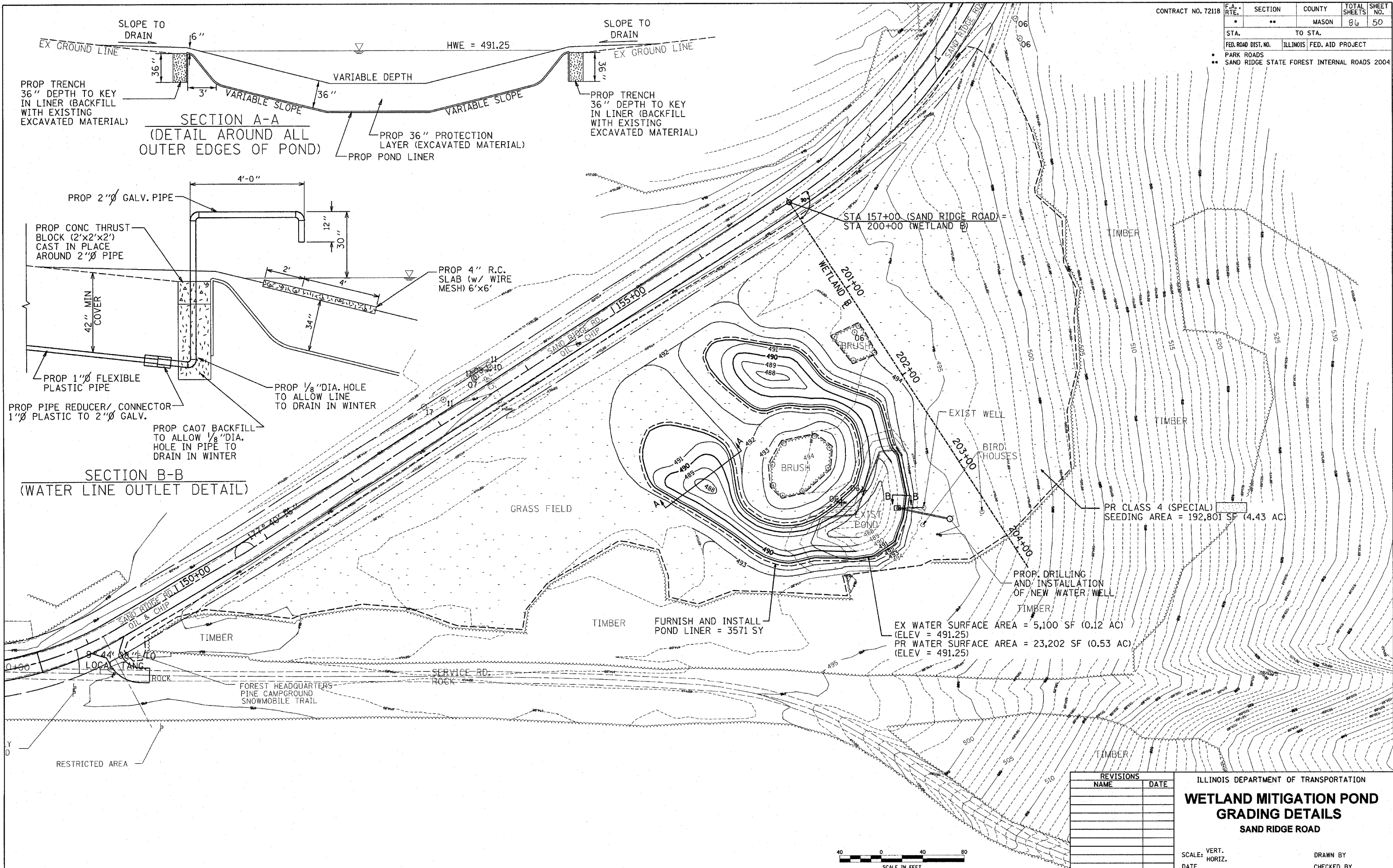


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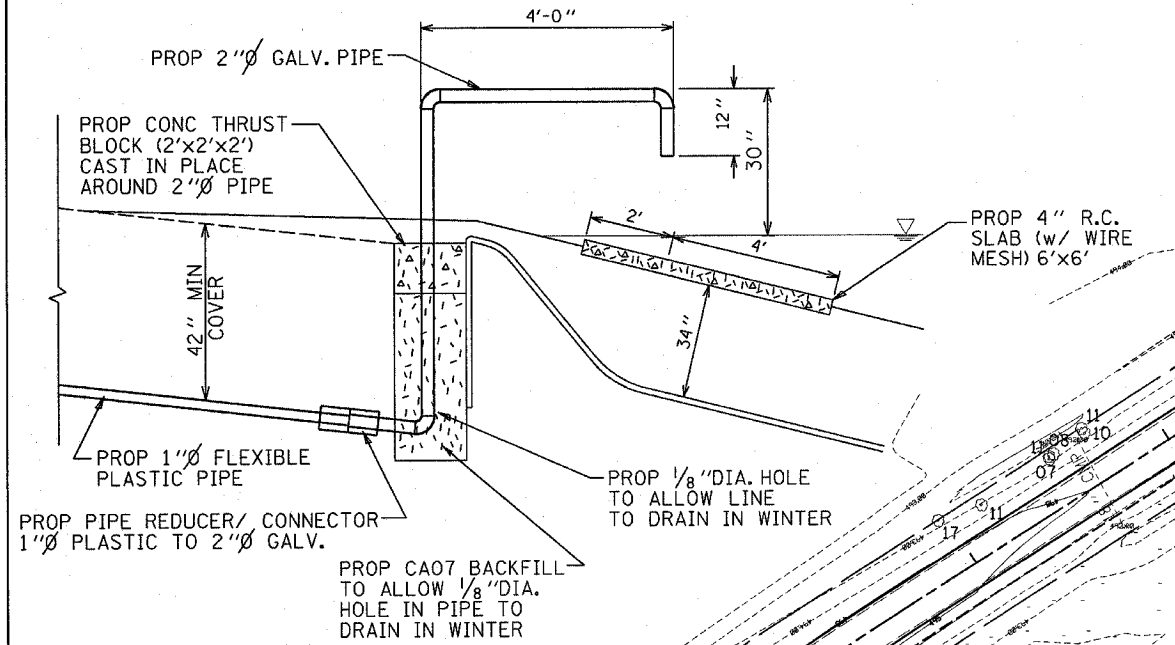
ILLINOIS DEPARTMENT OF TRANSPORTATION
BORROW SITE DETAILS
 SAND RIDGE ROAD BORROW SITE
 (FUTURE POND)

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

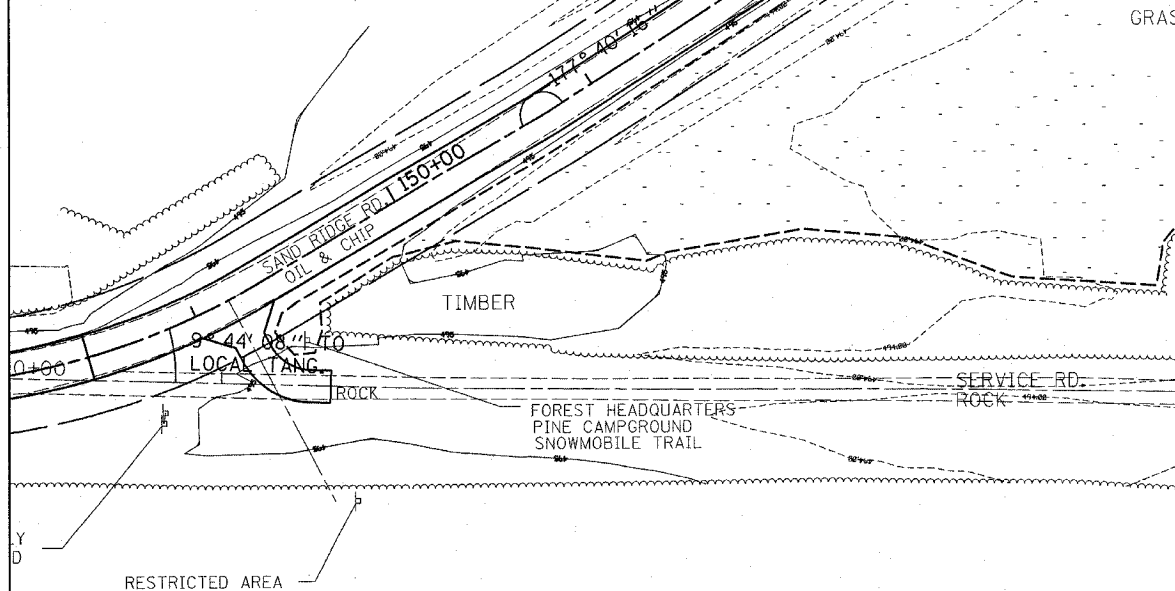
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SECTION A-A
(DETAIL AROUND ALL OUTER EDGES OF POND)



SECTION B-B
(WATER LINE OUTLET DETAIL)

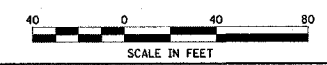


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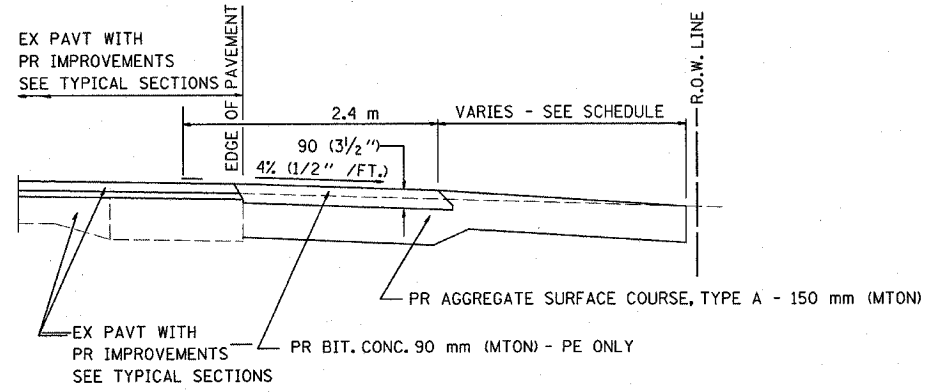
ILLINOIS DEPARTMENT OF TRANSPORTATION
WETLAND MITIGATION POND
GRADING DETAILS
 SAND RIDGE ROAD

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

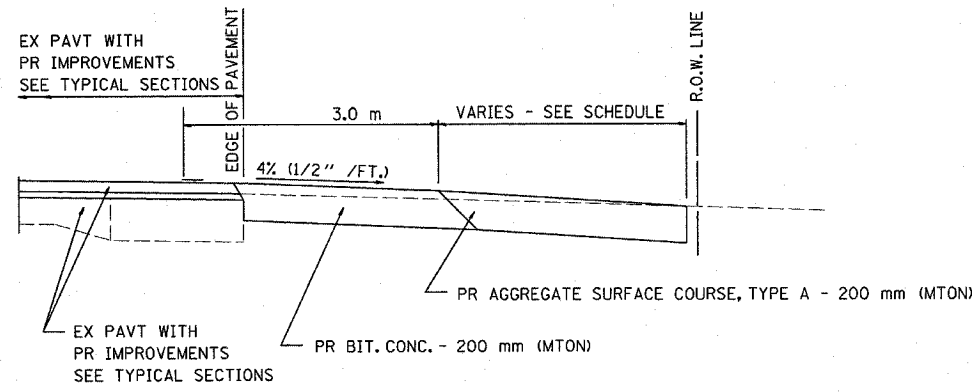
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 CHECKED BY _____



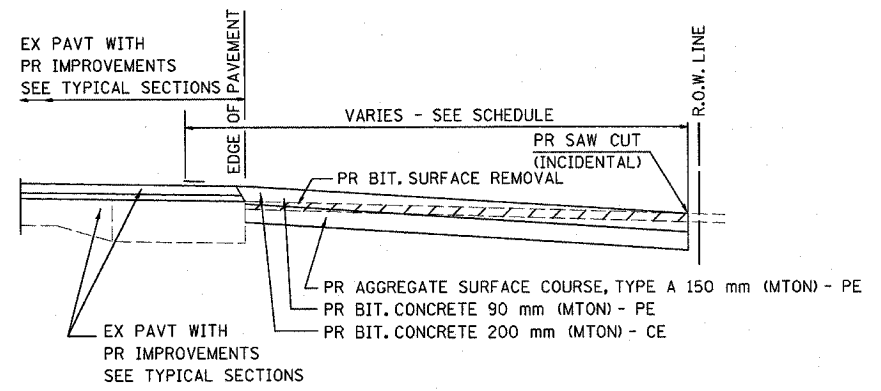
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|-------------------------------------------------------------------------------------------------------------------|----------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| . | .. | MASON | 86 | 51 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| <ul style="list-style-type: none"> PARK ROADS SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |



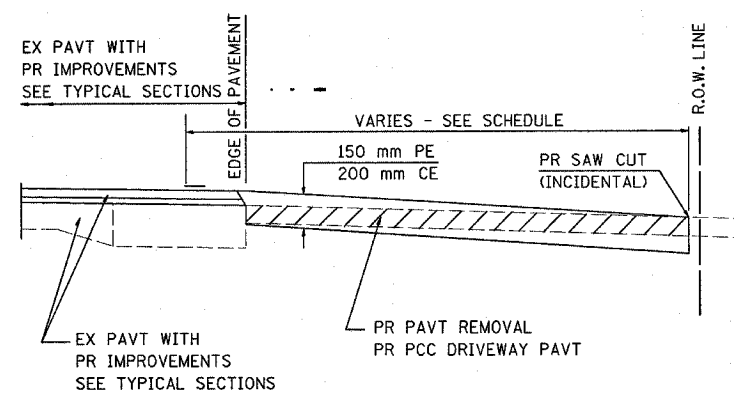
SECTION A-A FOR EX EARTH/AGGREGATE FE & PE



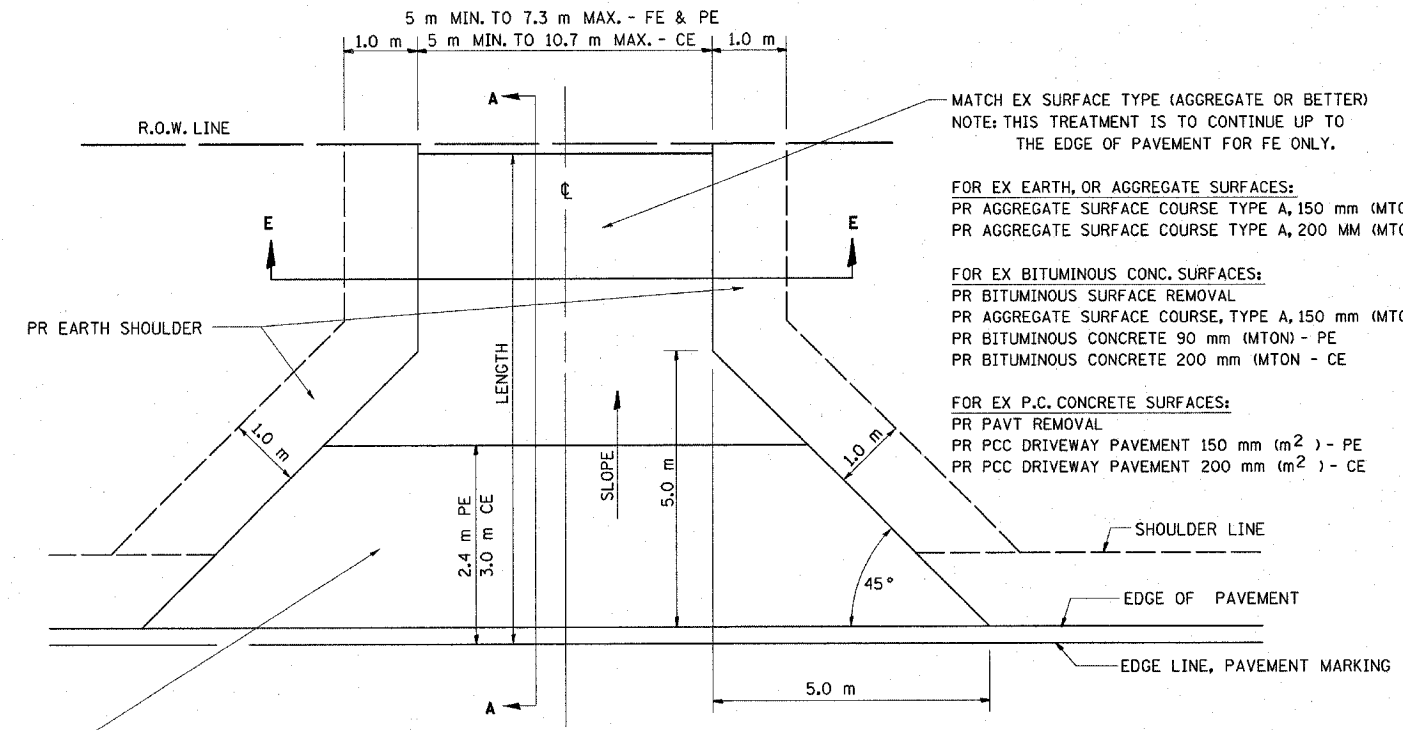
SECTION A-A FOR EX EARTH/AGGREGATE CE



SECTION A-A FOR EX BITUMINOUS PE & CE



SECTION A-A FOR EX P.C. CONC. PE & CE



FOR EX EARTH, AGGREGATE, OR BITUMINOUS CONC SURFACES:
 PR BIT SURFACE REMOVAL (IF APPLICABLE)
 PR AGGREGATE SURFACE COURSE TYPE A 150 mm (MTON) - FE
 PR AGGREGATE SURFACE COURSE TYPE A, 150 mm (MTON) &
 PR BITUMINOUS CONCRETE 90 mm (MTON) - PE
 PR BITUMINOUS CONCRETE 200mm (MTON) - CE

FOR P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVT 150 mm (m²) - PE
 PR PCC DRIVEWAY PAVT 200 mm (m²) - CE

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

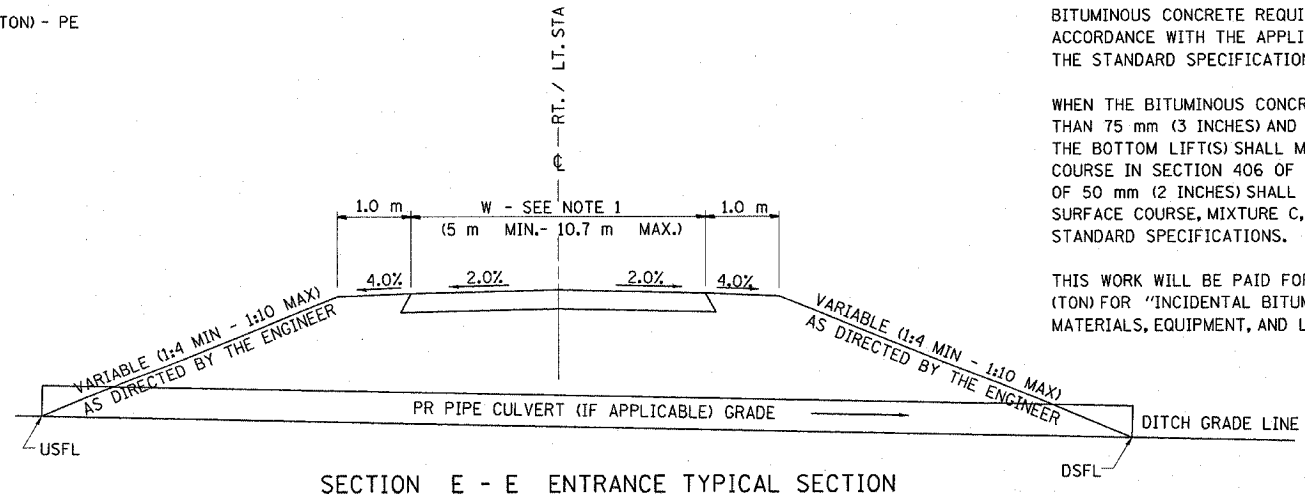
THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE C, CLASS I, TYPE 2 OF SECTION 406 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METRIC TON (TON) FOR "INCIDENTAL BITUMINOUS SURFACING" WHICH SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR INVOLVED.



SECTION E - E ENTRANCE TYPICAL SECTION

NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

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

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ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR RURAL ENTRANCE & MAILBOX TURNOUT

SCALE: VERT. HORIZ. DATE: FEBRUARY 23, 1999

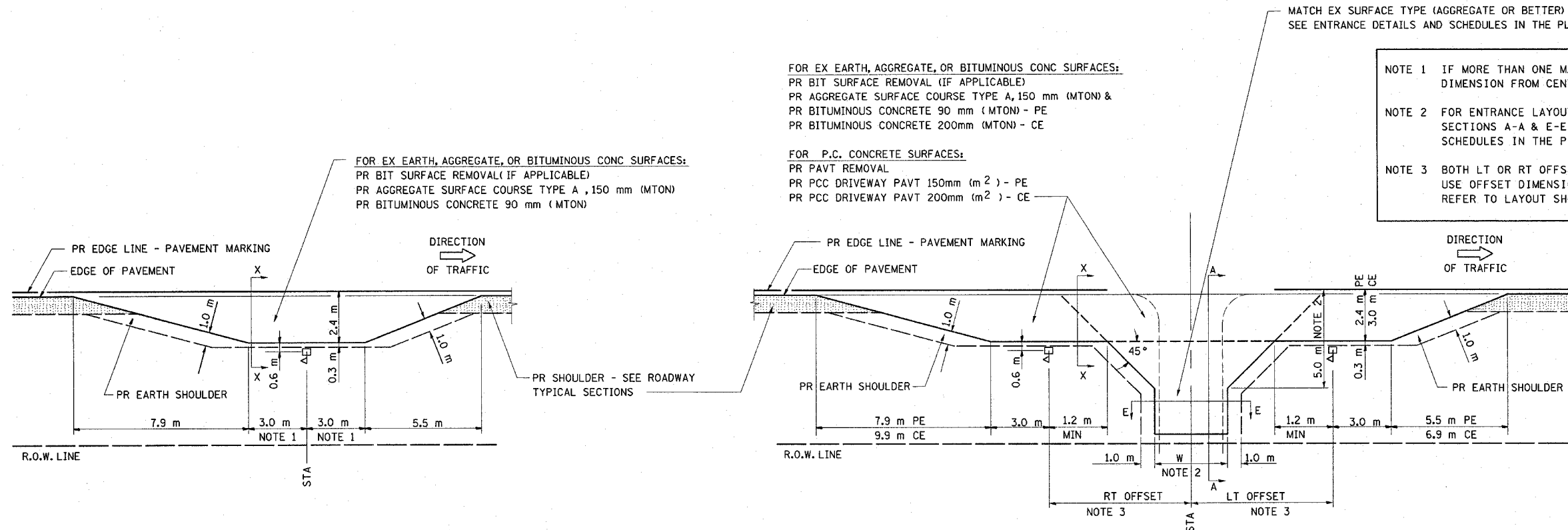
DRAWN BY CHECKED BY JCN

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|---------|--------|--------------|-----------|
| .. | .. | MASON | 80 | 52 |

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| STA. | TO STA. |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004

DETAILS OF MAILBOX TURNOUTS



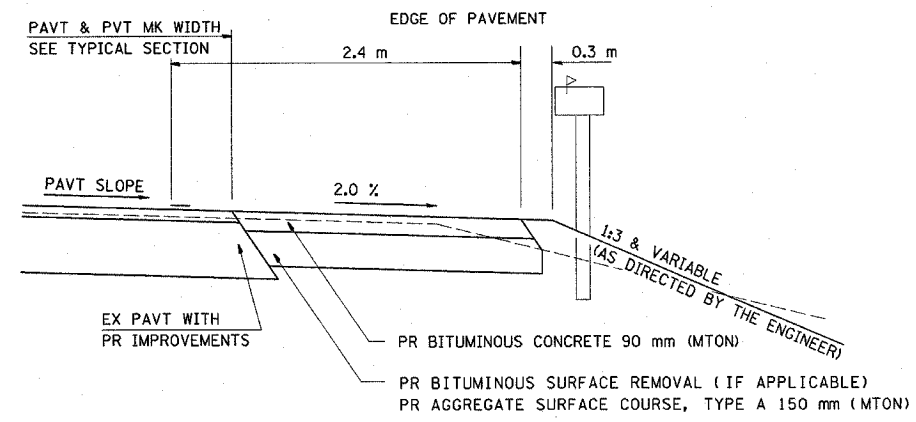
FOR EX EARTH, AGGREGATE, OR BITUMINOUS CONC SURFACES:
 PR BIT SURFACE REMOVAL (IF APPLICABLE)
 PR AGGREGATE SURFACE COURSE TYPE A, 150 mm (MTON) &
 PR BITUMINOUS CONCRETE 90 mm (MTON) - PE
 PR BITUMINOUS CONCRETE 200mm (MTON) - CE

FOR P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVT 150mm (m²) - PE
 PR PCC DRIVEWAY PAVT 200mm (m²) - CE

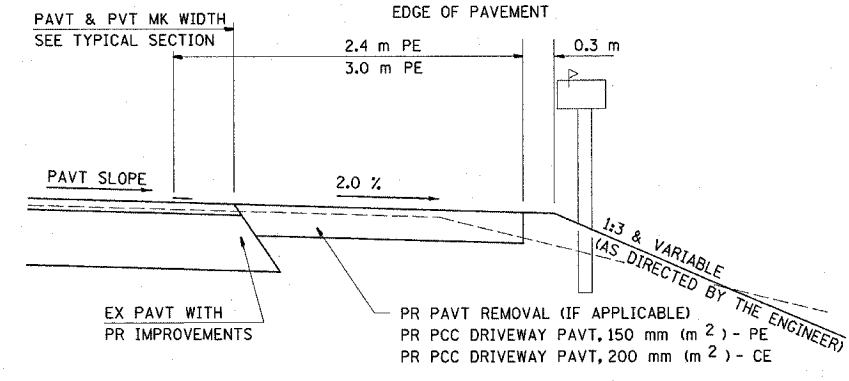
- NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.
- NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.
- NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

PLAN - MAILBOX TURNOUTS

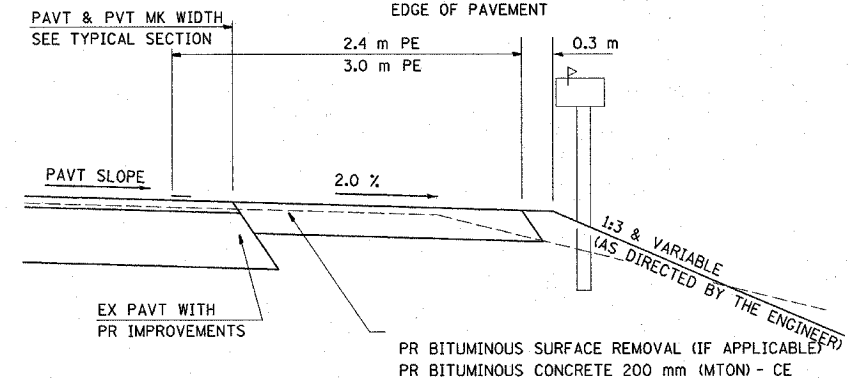
PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



SECTION X-X THRU MAILBOX TURNOUT
 ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH EX EARTH, AGGREGATE, OR BITUMINOUS PE & FE



SECTION X-X THRU MAILBOX TURNOUT
 COMBINED WITH EX CONC PE OR CE



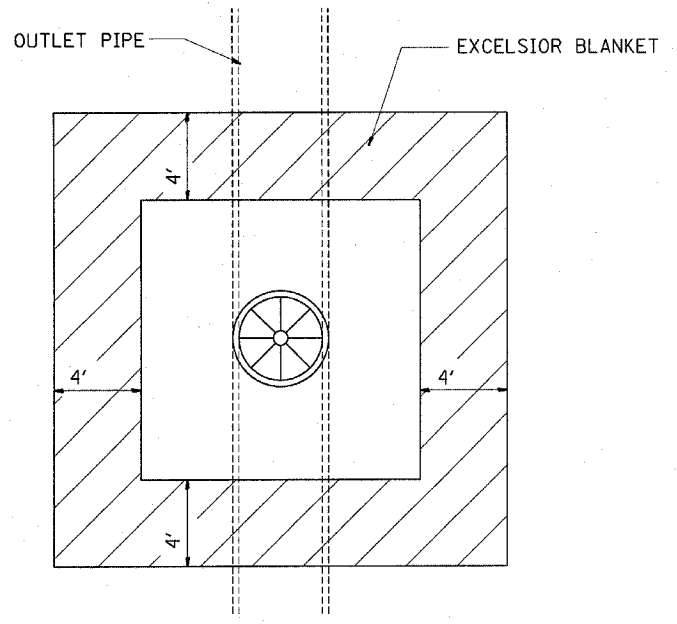
SECTION X-X THRU MAILBOX TURNOUT
 COMBINED WITH EX EARTH, AGGREGATE, OR BITUMINOUS CE

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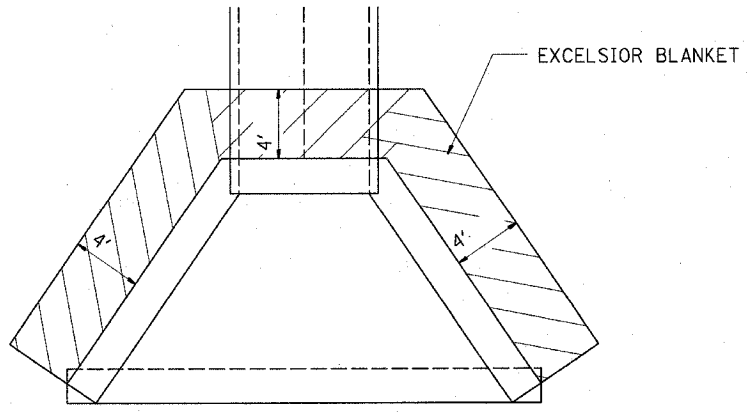
ILLINOIS DEPARTMENT OF TRANSPORTATION

**DETAILS FOR RURAL
 ENTRANCE & MAILBOX TURNOUT**

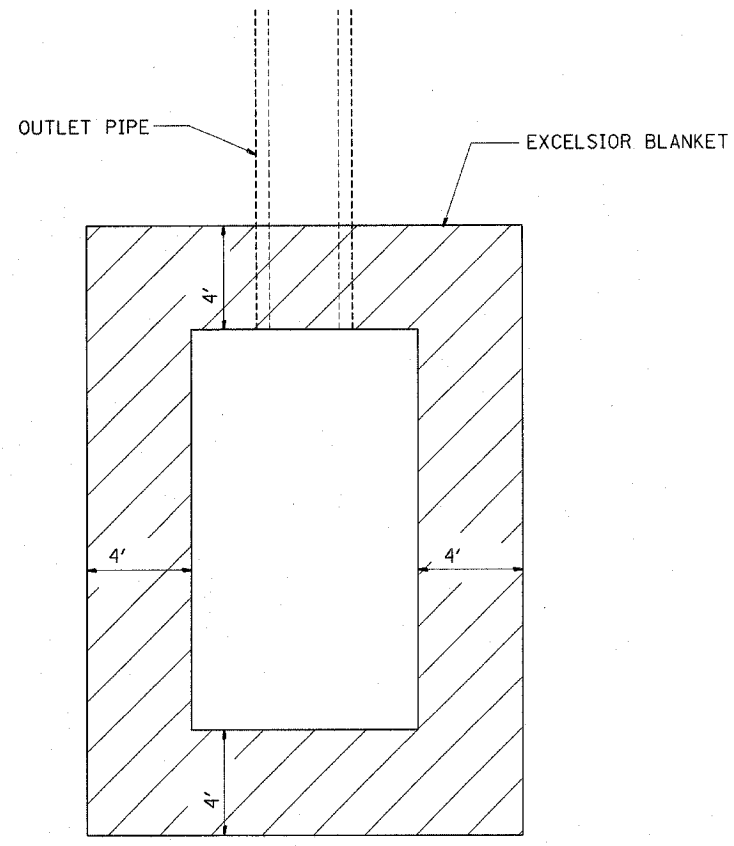
SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY JCN
 DATE: FEBRUARY 23, 1999



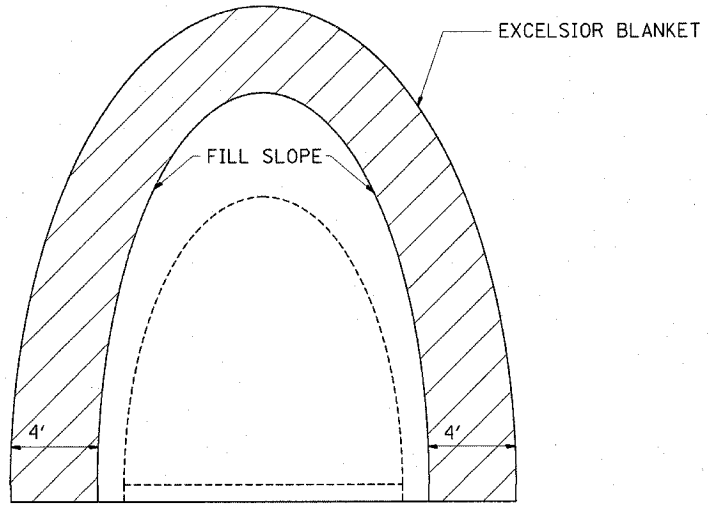
EXCELSIOR BLANKET AROUND
MANHOLE, TYPE A
W/TYPE 1 FRAME, CLOSED LID



EXCELSIOR BLANKET AROUND
HEADWALLS & CULVERT WINGWALLS



EXCELSIOR BLANKET AROUND
HEADWALL FOR PIPE UNDERDRAIN
STD 601101



EXCELSIOR BLANKET AROUND
FLARED END SECTION
STD 542301

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| NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
**HEAVY DUTY EXCELSIOR BLANKET
DETAILS**

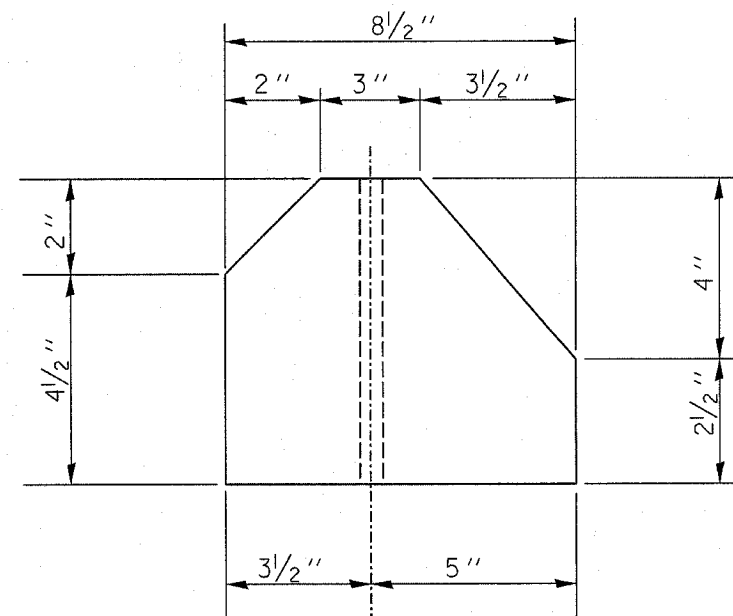
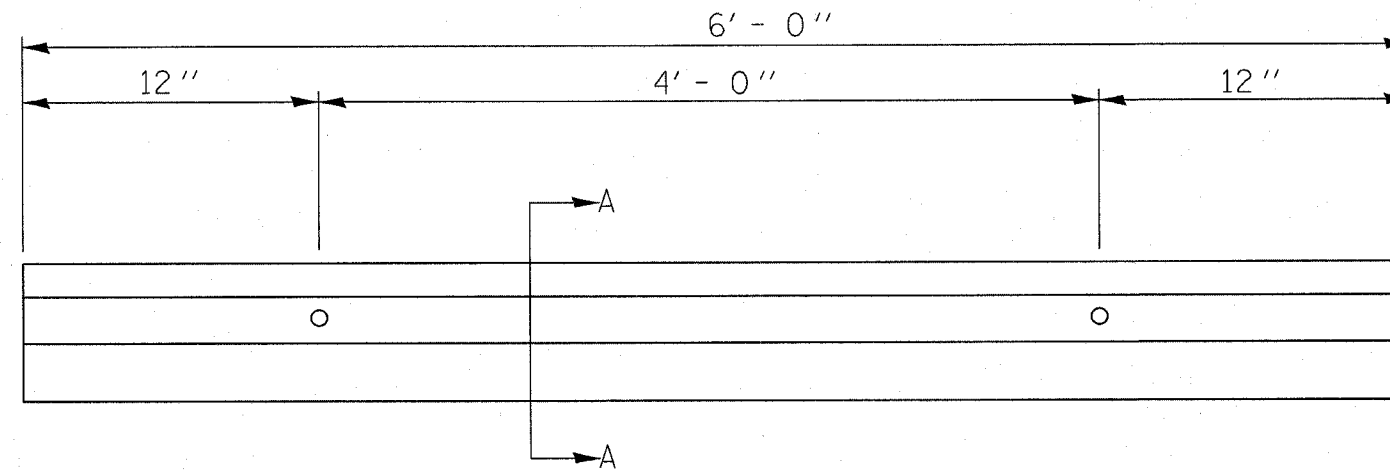
SCALE: VERT. _____
HORIZ. _____

DATE _____ DRAWN BY _____
CHECKED BY _____

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 2/5/2004
 REF 01

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|------------------|--------------|-----------|
| * | ** | MASON | 86 | 54 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

- PARK ROADS
- SAND RIDGE STATE FOREST INTERNAL ROADS 2004



Ø 1" DIA. HOLE

SECTION A-A

EX & PR BUMPER BLOCKS TO BE FASTENED TO PR BIT. SURF. W/ 3/4" Ø x 24" STEEL SPIKES W/ CAPS APPROVED BY THE ENGINEER

PRECAST CONCRETE CAR BUMPER DETAIL

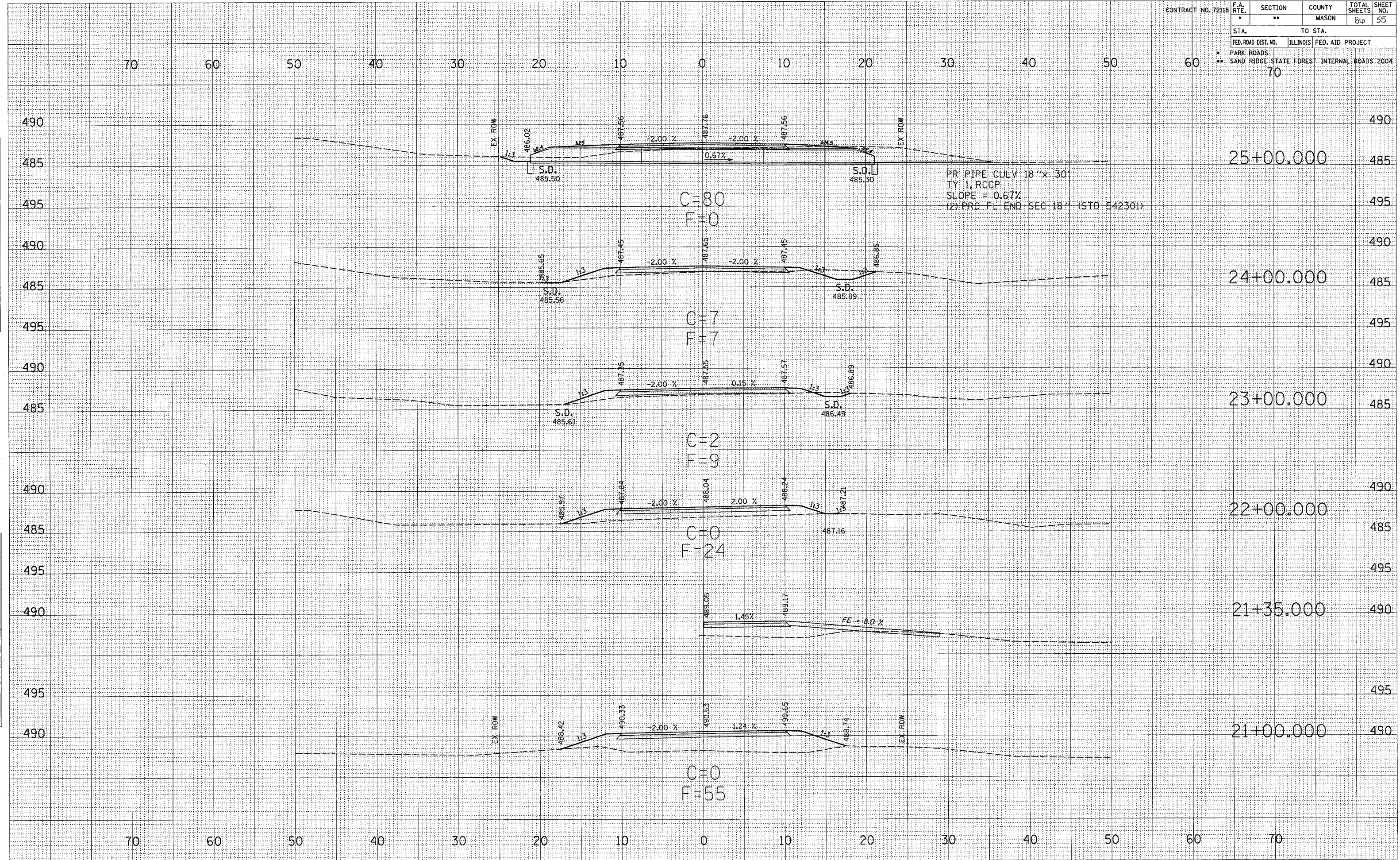
ILLINOIS DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE CAR BUMPER DETAIL
SAND RIDGE STATE FOREST

SCALE:
DATE:

DRAWN BY: MDH
CHECKED BY:

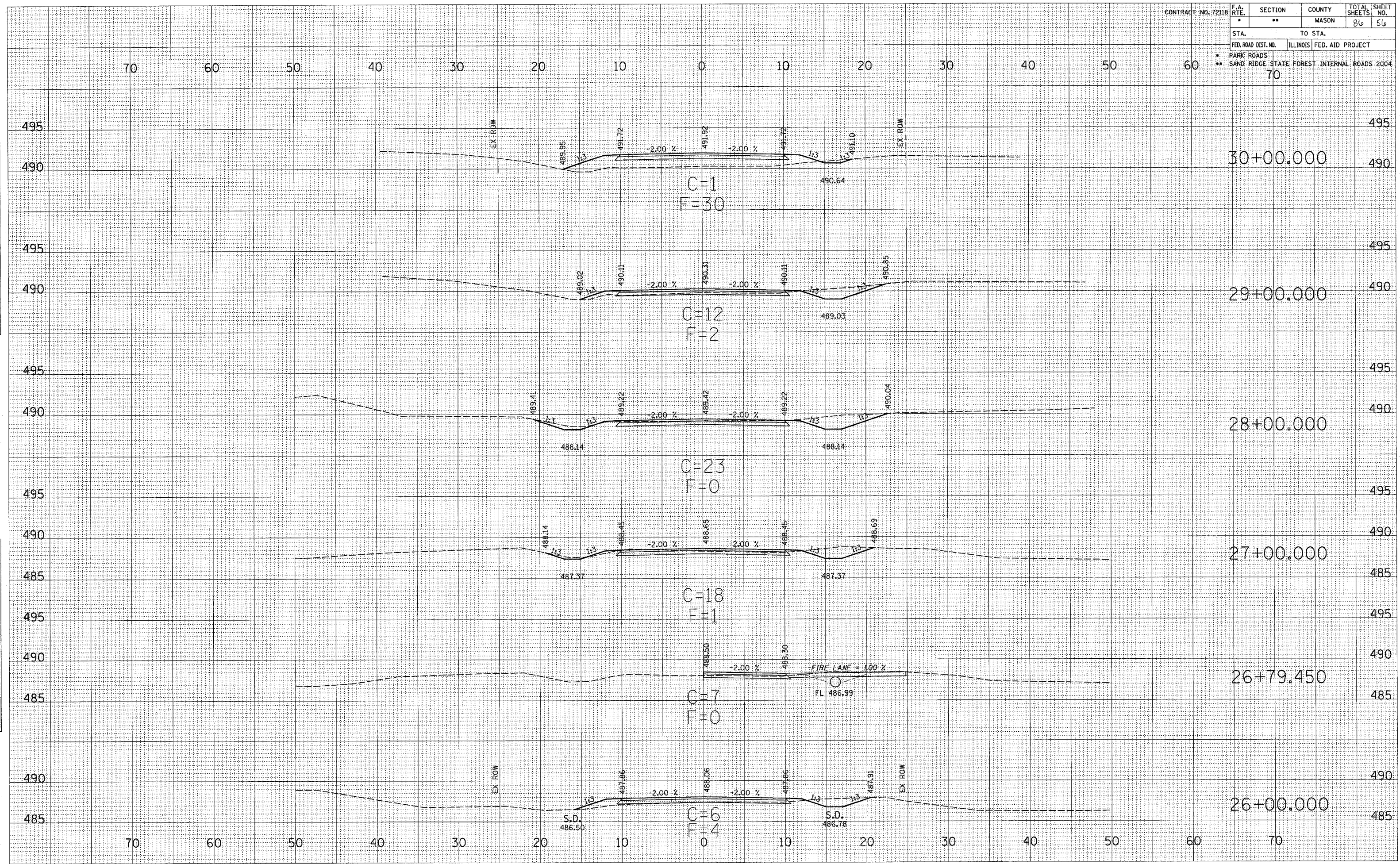
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|---------------------------|--|---------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | • | •• | MASON | 86 | 55 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| • PARK ROADS | | INTERNAL ROADS 2004 | | | | |
| • SAND RIDGE STATE FOREST | | 70 | | | | |



SURVEYED
 PLOTTED
 SURVEY
 NOTE BOOK
 NO.

SURVEYED
 PLOTTED
 SURVEY
 NOTE BOOK
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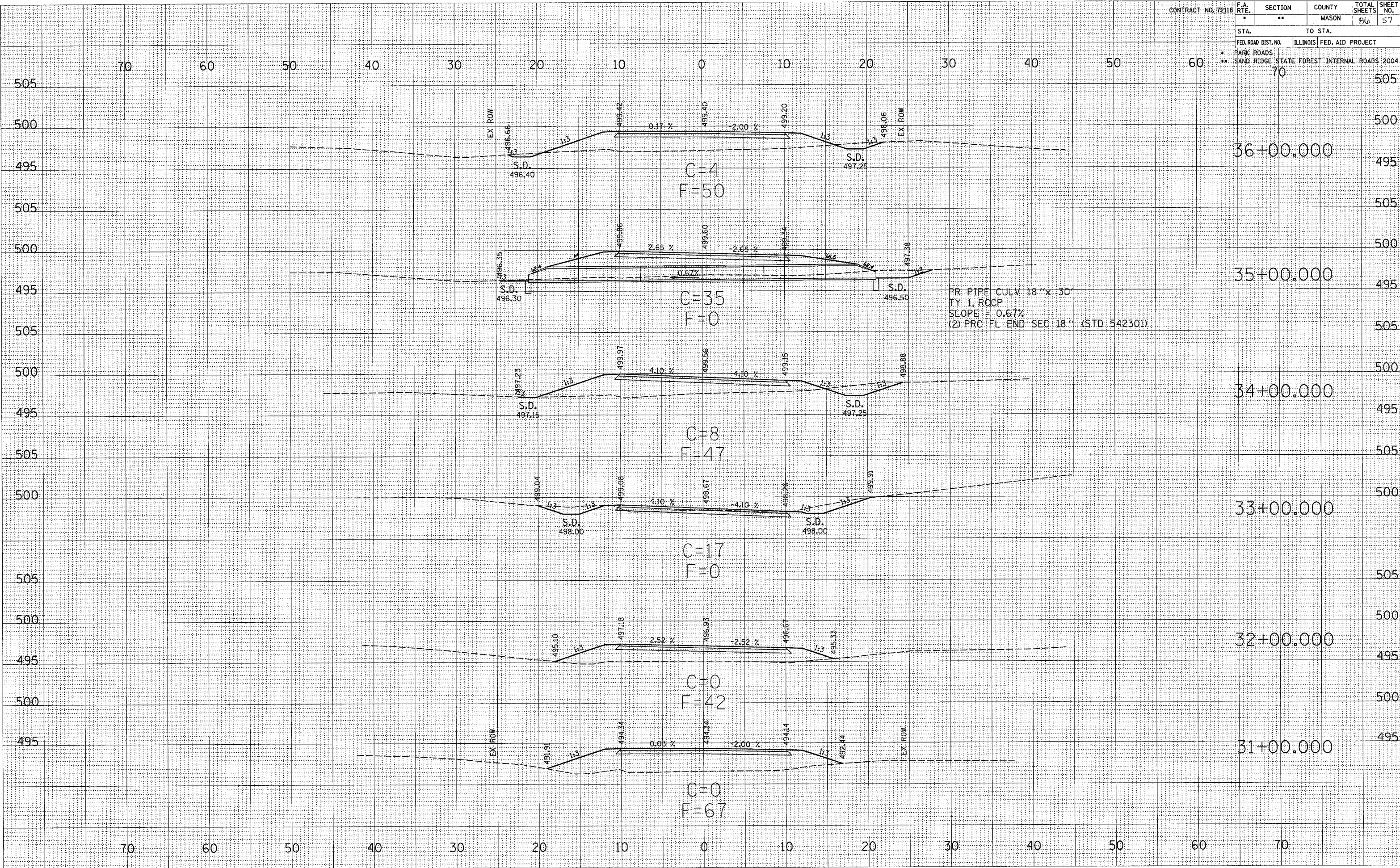
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| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | * | ** | MASON | 86 | 56 |
| STA. | TO STA. | | | | |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | | |
| ** SAND RIDGE STATE FOREST | INTERNAL ROADS 2004 | | | | |
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 AREAS CHECKED
 NO.

SURVEYED
 PLOTTED
 NOTE BOOK
 AREAS CHECKED
 NO.

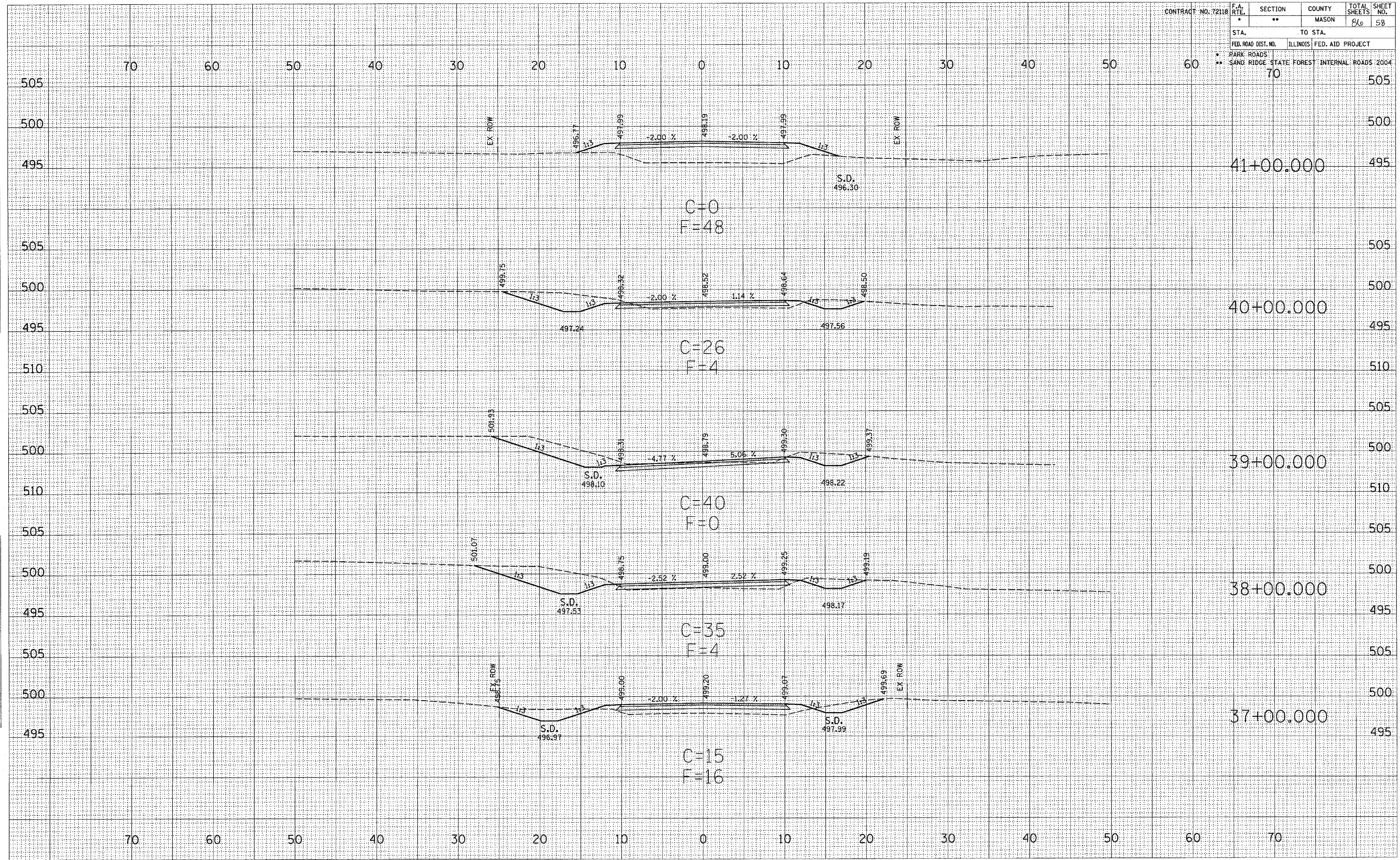
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|----------------------------|--|---------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | * | ** | MASON | 86 | 57 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| * PARK ROADS | | INTERNAL ROADS 2004 | | | | |
| ** SAND RIDGE STATE FOREST | | | | | | |



SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

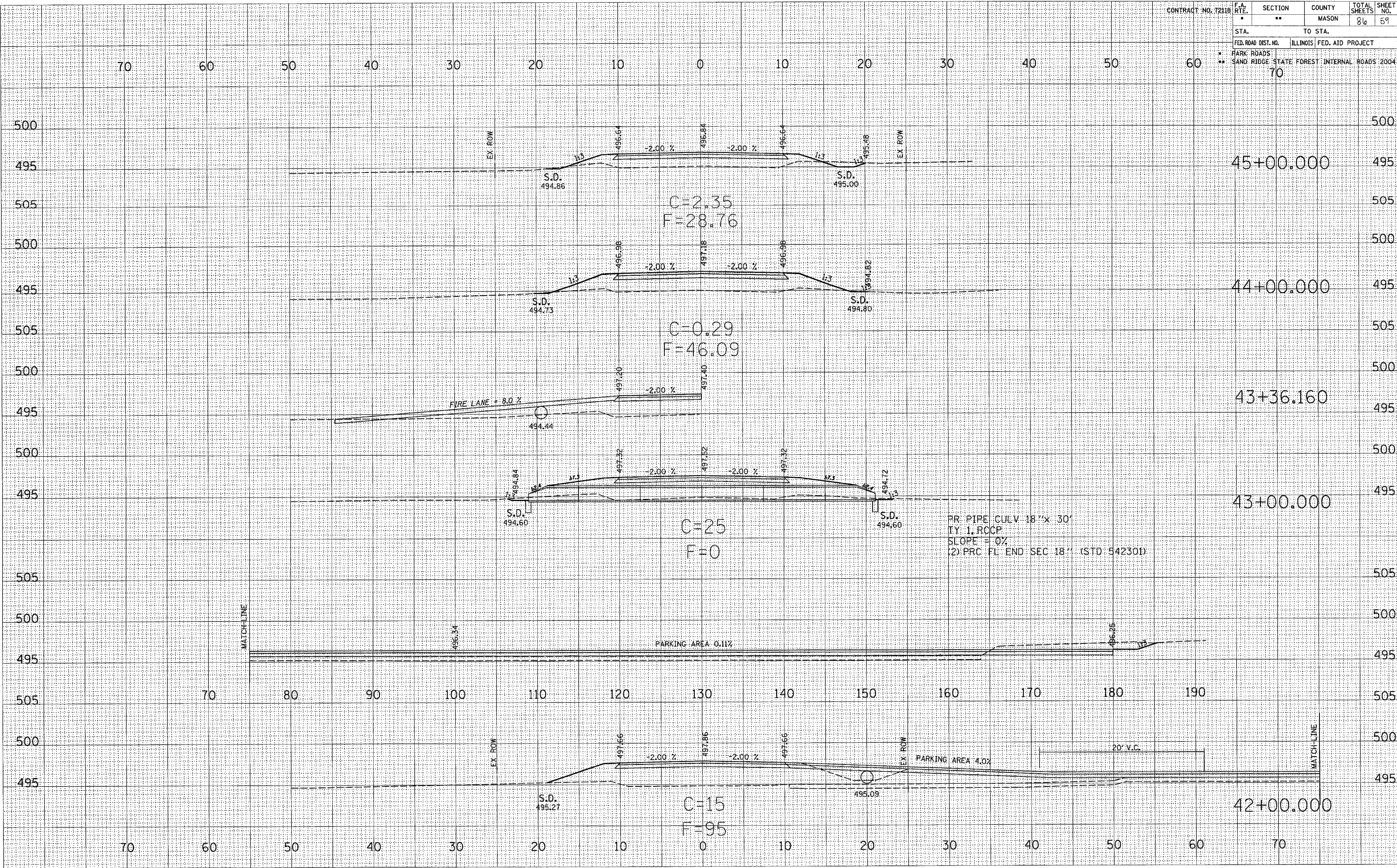
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|----------------------------|--|---------------------|------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | • | •• | MASON | 86 | 58 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | | | |
| • PARK ROADS | | | | | | |
| •• SAND RIDGE STATE FOREST | | INTERNAL ROADS 2004 | | | | |
| 70 | | 505 | | | | |



SURVEYED
 PLOTTED
 NOTE BOOK
 AREAS CHECKED

SURVEYED
 PLOTTED
 NOTE BOOK
 AREAS CHECKED

| | | | | | |
|----------------------------|---------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | ** | MASON | 86 | 59 |
| STA. | TO STA. | | | | |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | | |
| ** SAND RIDGE STATE FOREST | INTERNAL ROADS 2004 | | | | |
| | 70 | | | | |

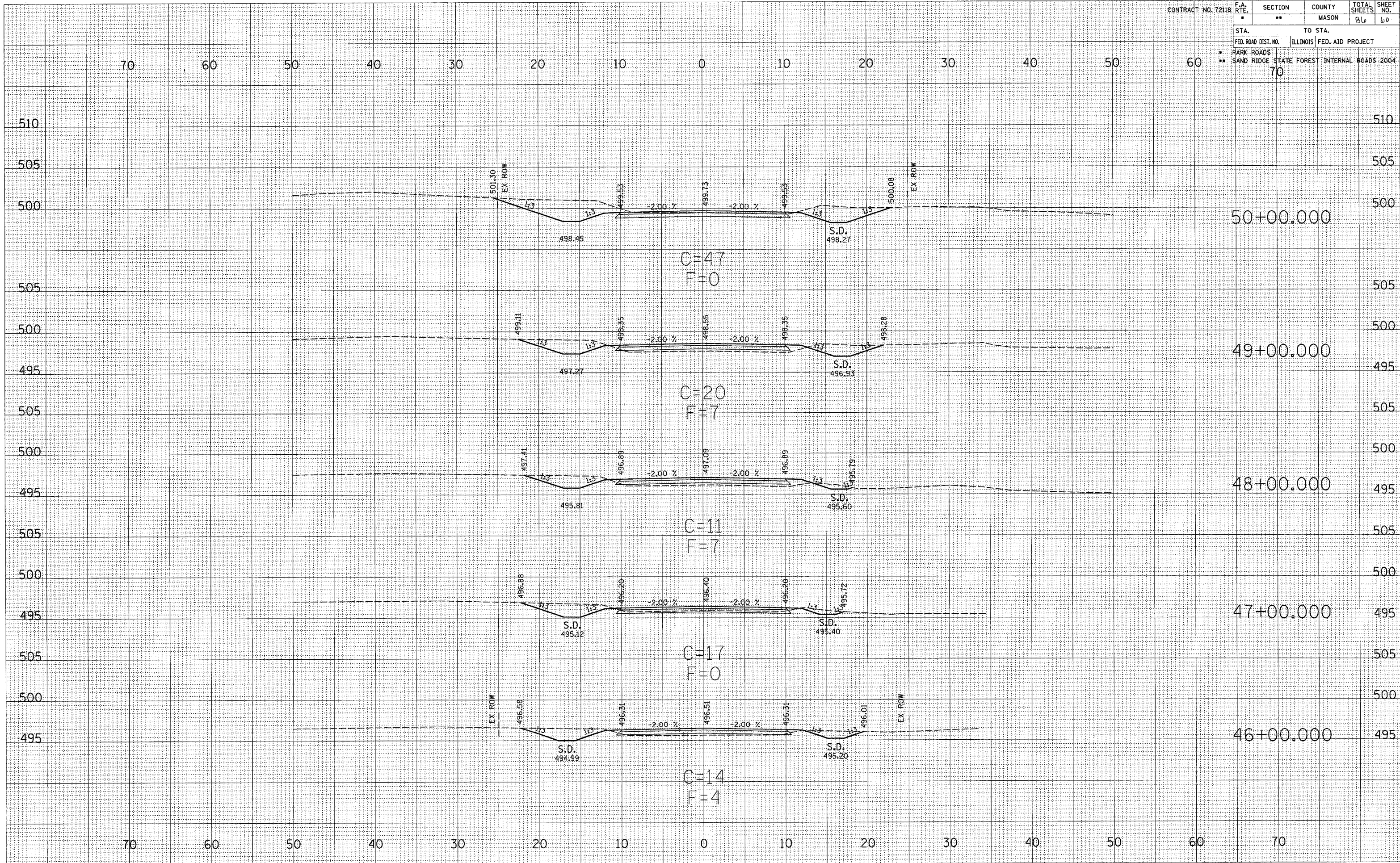


SURVEYED
PLOTTED
NOTE BOOK
NO.

SURVEYED
PLOTTED
NOTE BOOK
NO.

CONTRACT NO. 72118

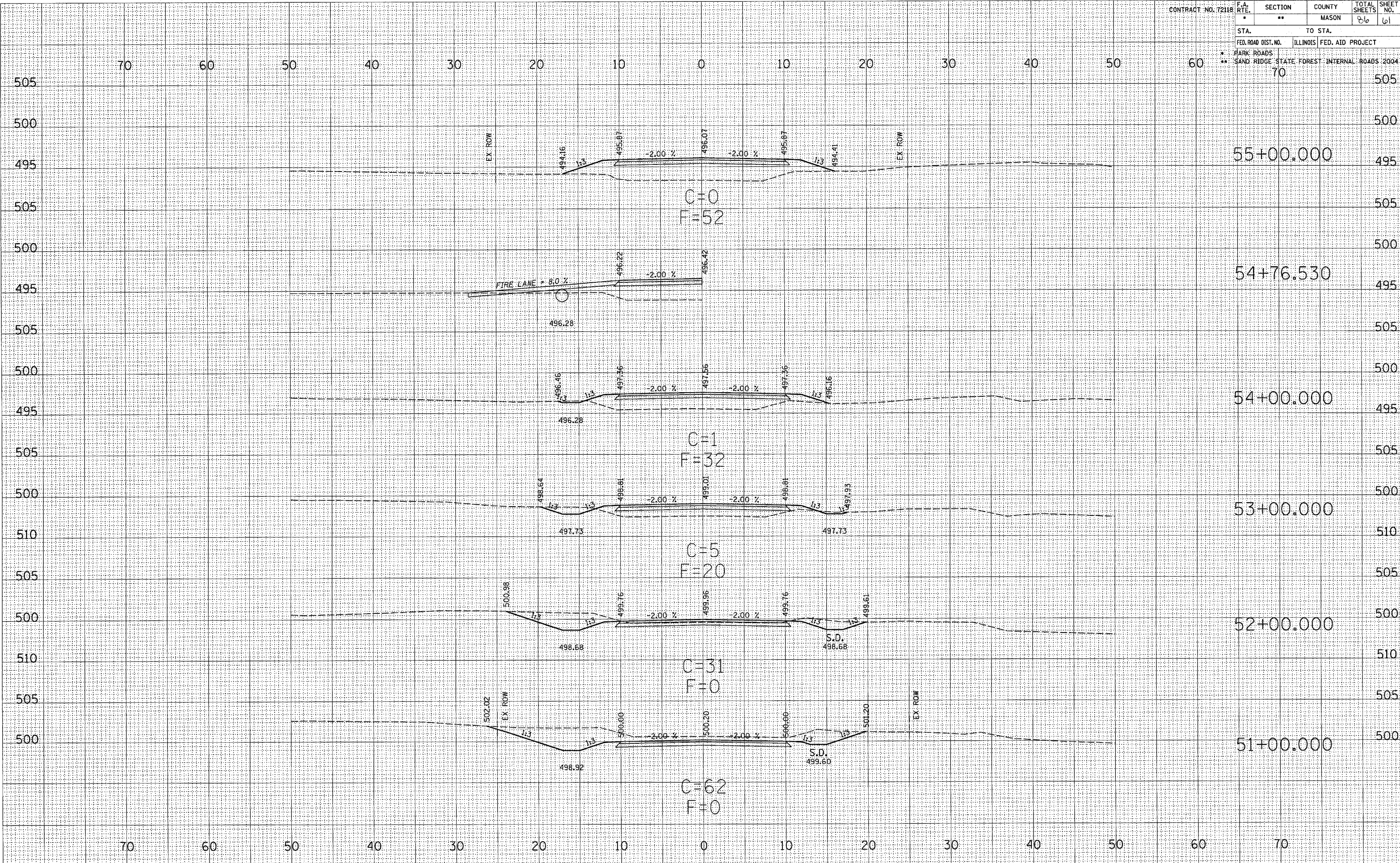
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------------------------|---------|---------------------------|--------------|-----------|
| 70 | 70 | MASON | 86 | 60 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| * PARK ROADS | | | | |
| ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |



FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

ORIGIN SURVEY PLOTTED TEMPLATE AREAS CHECKED

| | | | | | |
|---------------------|---------------------------|------------|--------------|--------------|------------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | ** | MASON | 86 | 61 |
| STA. | TO STA. | | | | |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | | |
| ** | PARK ROADS | SAND RIDGE | STATE FOREST | INTERNAL | ROADS 2004 |



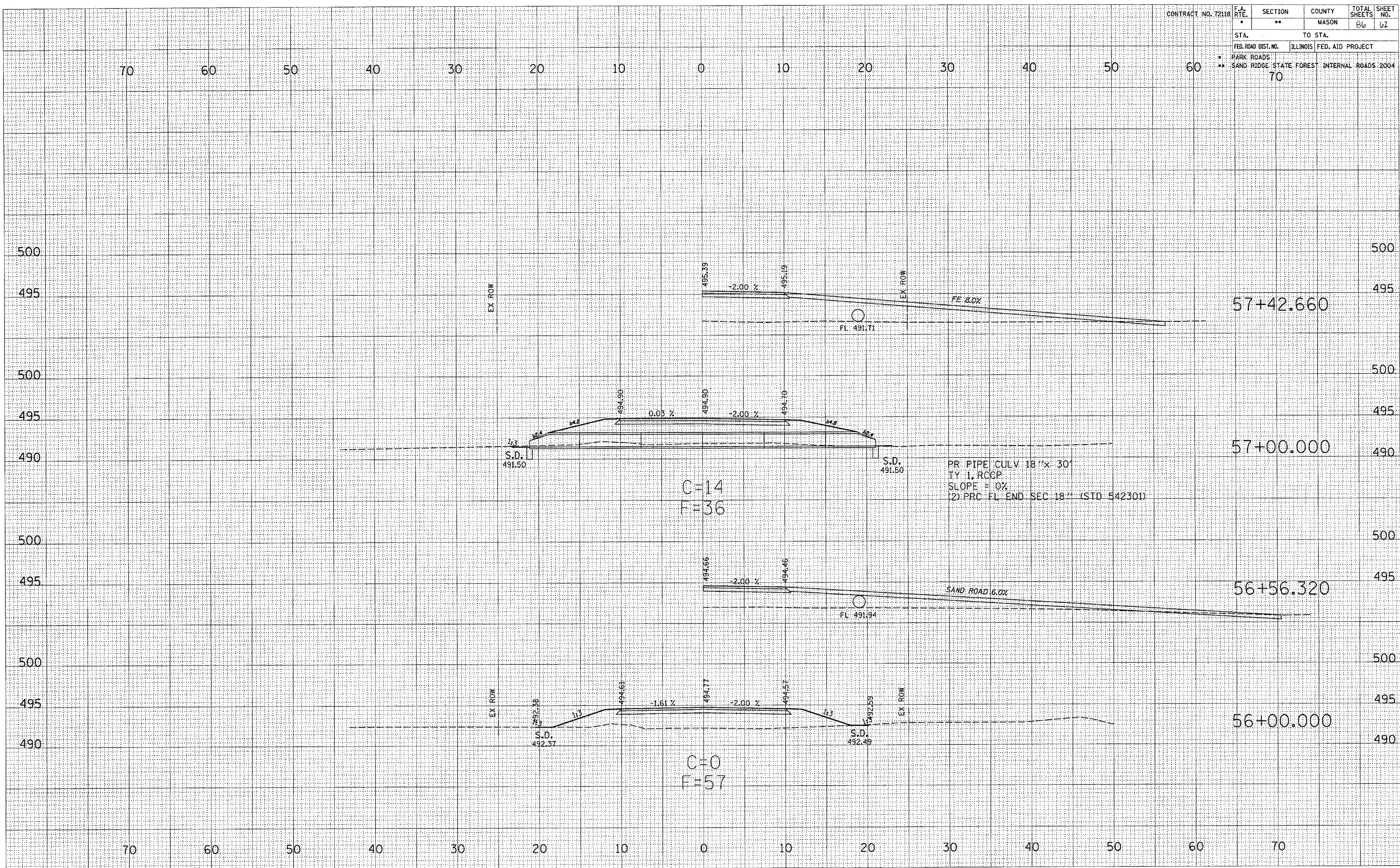
SURVEYED
 PLOTTED
 NOTE BOOK NO.
 AREAS CHECKED

SURVEYED
 PLOTTED
 NOTE BOOK NO.
 AREAS CHECKED

| | | | | | |
|---------------------|---------------------------------------------|------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | • | ** | MASON | 86 | 62 |
| STA. | | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |
| * PARK ROADS | SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |
| ** | 70 | | | | |

FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

ORIGIN SURVEY PLOTTED TEMPLATE AREAS CHECKED

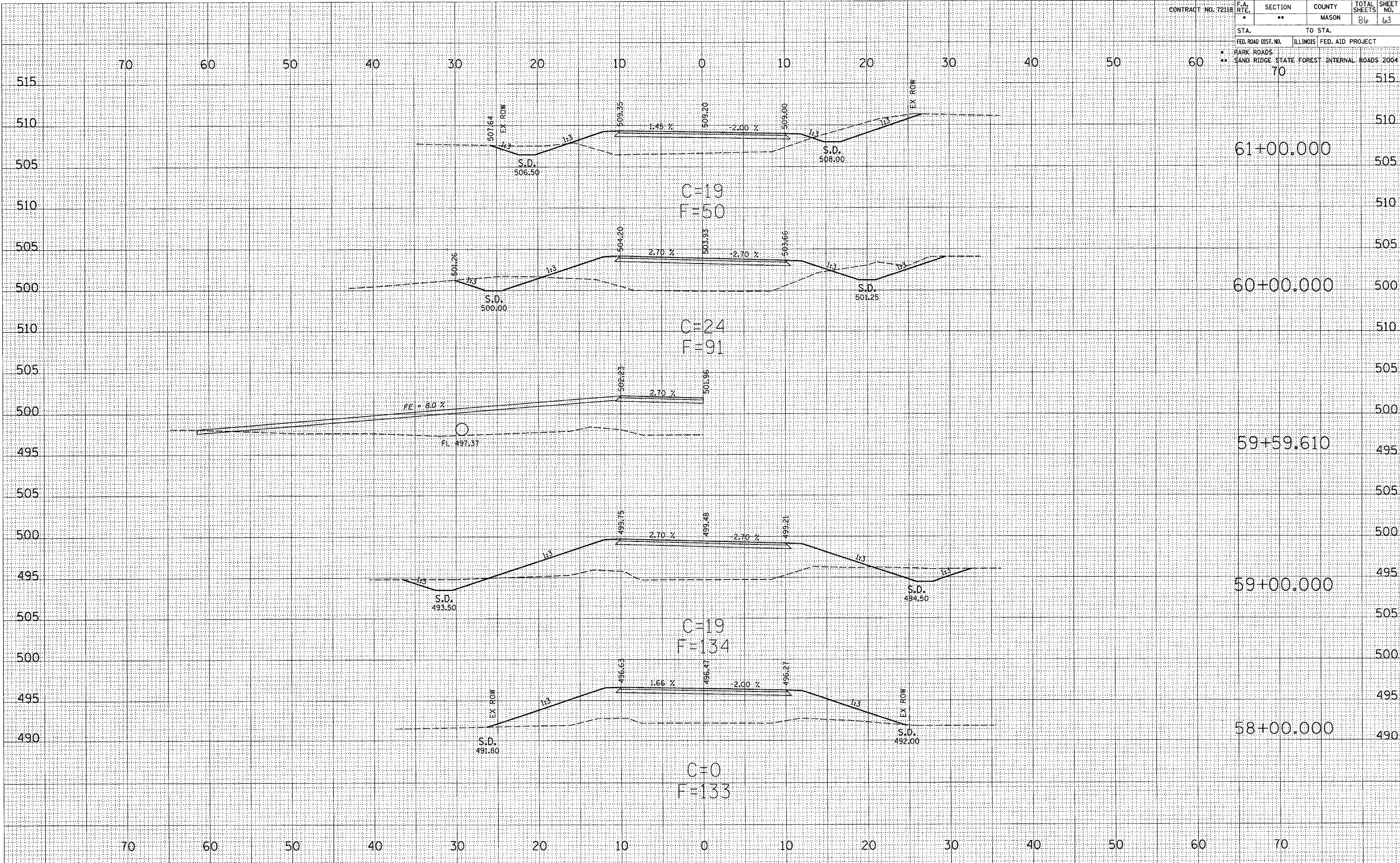


C=14
F=36

PR PIPE CULV 18'x 30'
1% RCGP
SLOPE = 10%
(2) PRC FL END SEC 18" (STD 542301)

C=0
F=57

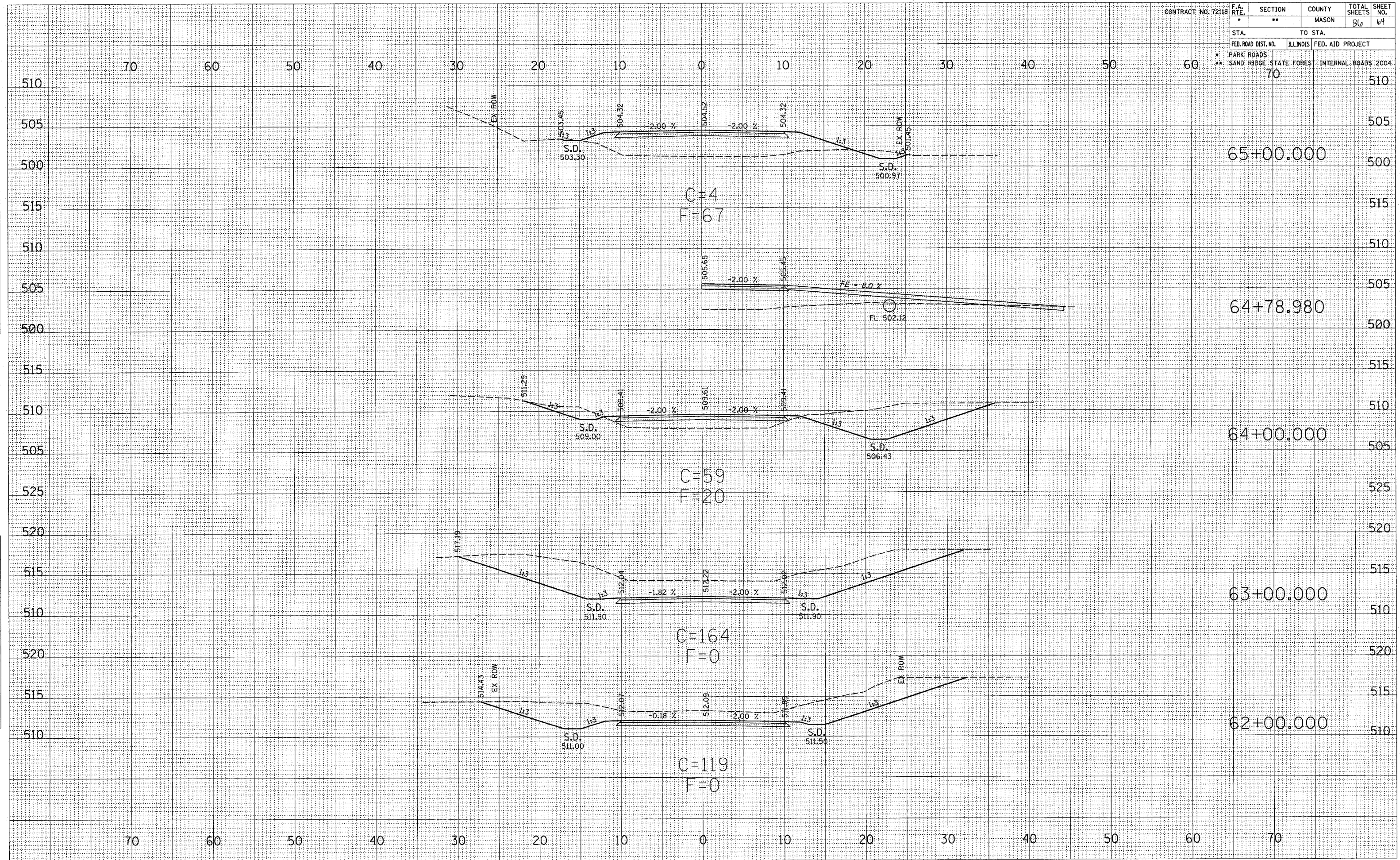
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|---------------------|--|-----------------------------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | • | •• | MASON | 86 | 63 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| • PARK ROADS | | • SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |
| 70 | | 70 | | | | |



SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

| | | | | | | |
|---------------------|--|----------------------------|---------|---------------------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | * | ** | MASON | 86 | 64 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS | | FED. AID PROJECT | | |
| * PARK ROADS | | ** SAND RIDGE STATE FOREST | | INTERNAL ROADS 2004 | | |
| 70 | | 70 | | 510 | | |



C=4
F=67

C=59
F=20

C=164
F=0

C=119
F=0

65+00.000

64+78.980

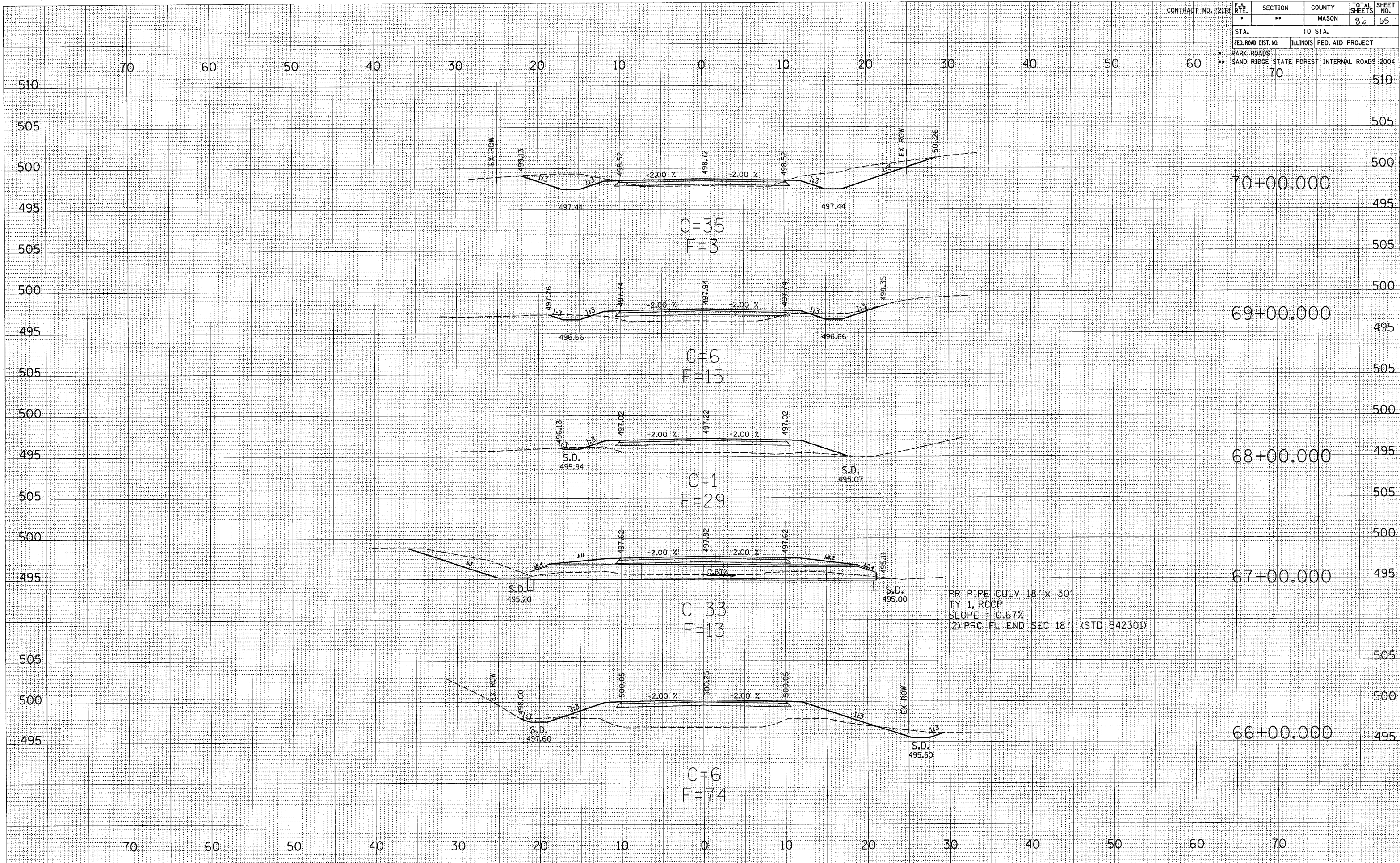
64+00.000

63+00.000

62+00.000

SURVEYED
 PLOTTED
 NOTE BOOK
 AREAS CHECKED
 NO.

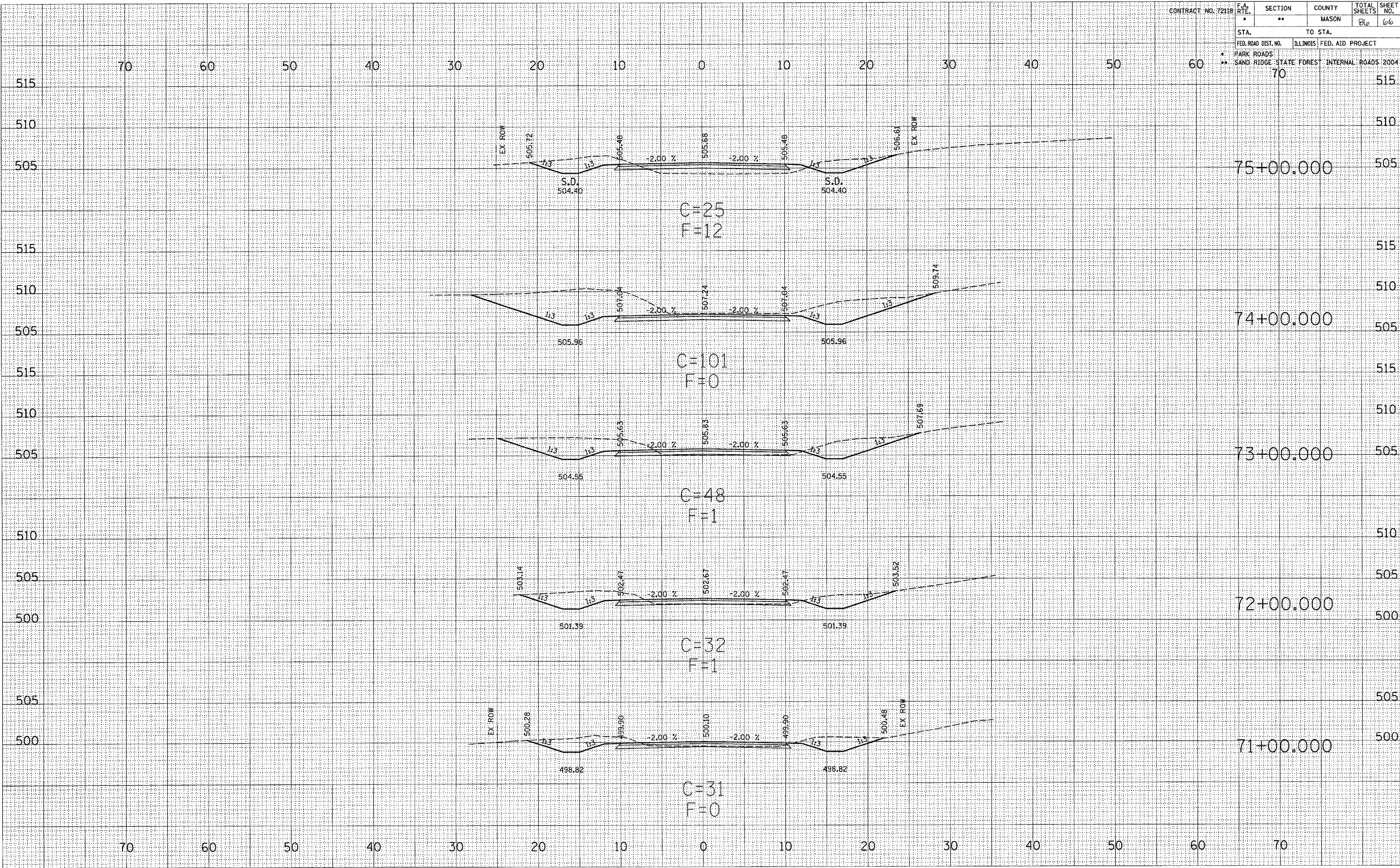
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|------------------------------------------------|-----------|----------|------------------|--------------|-----------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | * | ** | MASON | 86 | 65 |
| STA. | | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | | |
| * PARK ROADS | | | | | |
| ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | | |
| 70 | | | 510 | | |



FINISHED SURVEY
 SURVEY PLOTTED
 NOTE BOOK
 TEMPLATE
 AREAS CHECKED
 NO.

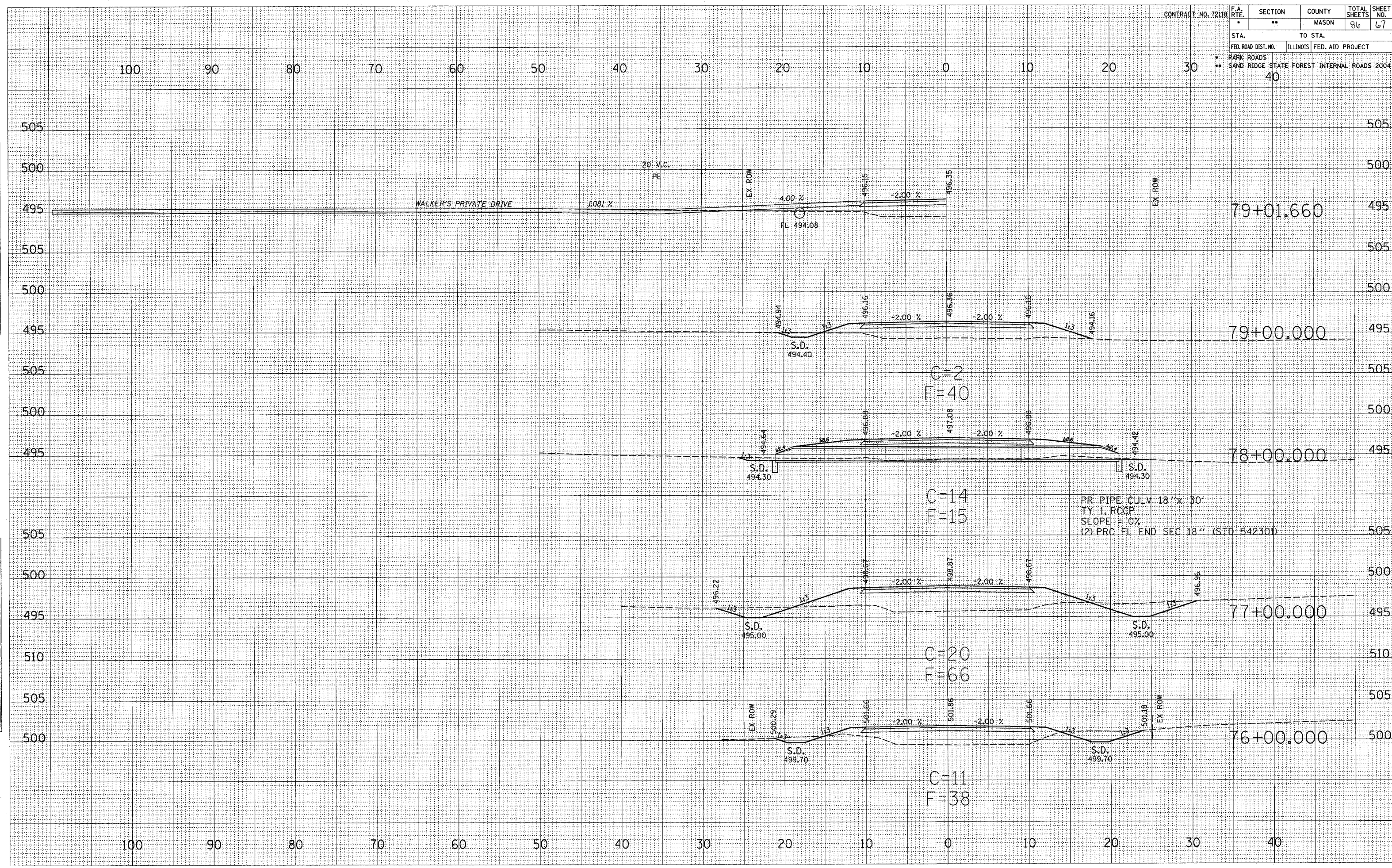
ORIGINAL SURVEY
 SURVEY PLOTTED
 NOTE BOOK
 TEMPLATE
 AREAS CHECKED
 NO.

| | | | | | | |
|---------------------|----------------------------|---------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | • | •• | MASON | 86 | 66 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | | |
| • PARK ROADS | •• SAND RIDGE STATE FOREST | INTERNAL ROADS 2004 | | | | |
| 70 | | | 515 | | | |



CONTRACT NO. 72118

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------------------|---------------------|--------------|-----------|
| * | ** | MASON | 86 | 67 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| * PARK ROADS | ** SAND RIDGE STATE FOREST | INTERNAL ROADS 2004 | | |
| | 40 | | | |



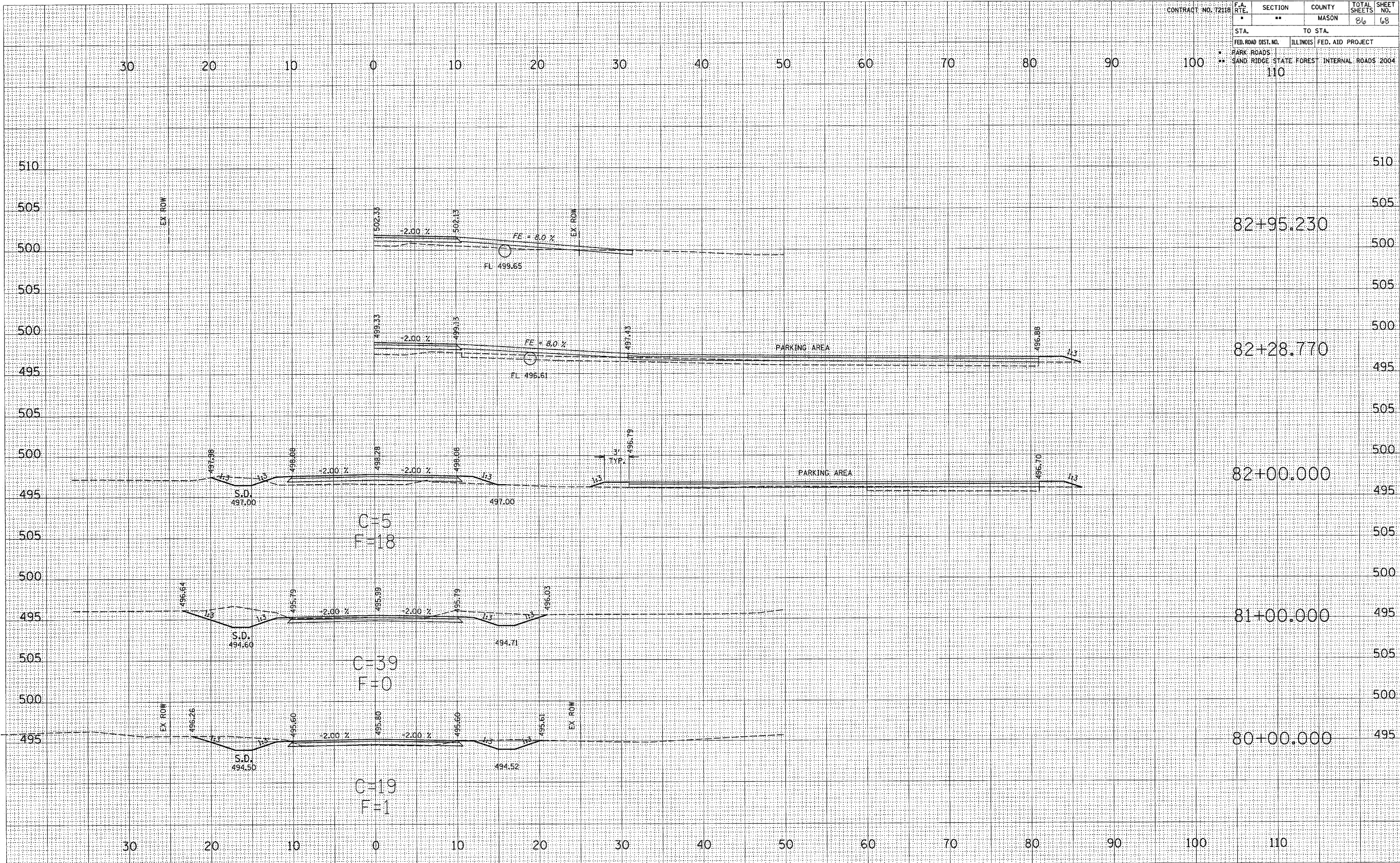
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 PLOTTED
 RECALCULATED
 AREAS CHECKED
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SURVEYED
 PLOTTED
 RECALCULATED
 AREAS CHECKED
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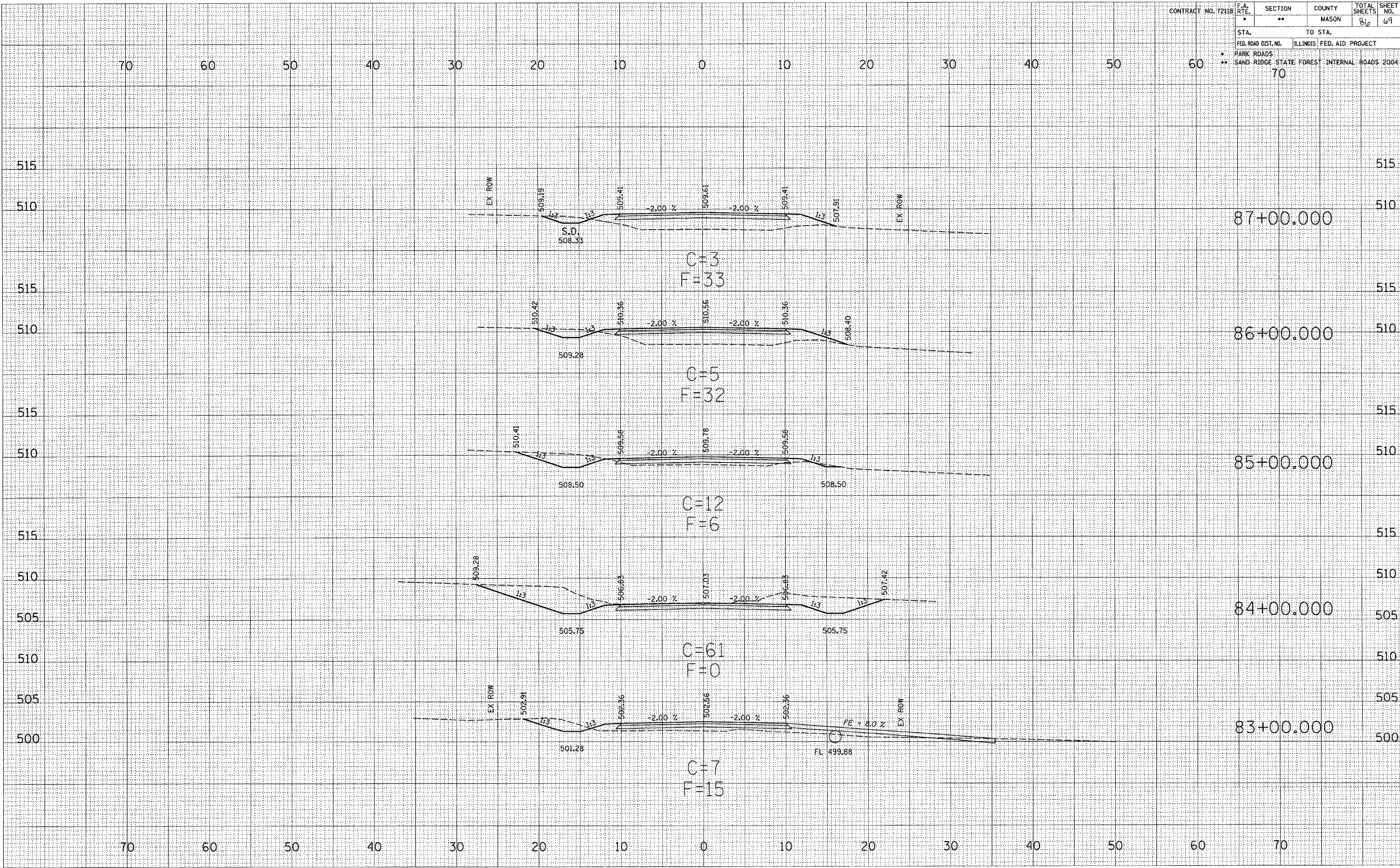
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|---------------------|--|---------------------------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | ** | ** | MASON | 86 | 68 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| * PARK ROADS | | SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |
| | | 110 | | | | |

FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

UNREVISED SURVEY PLOTTED TEMPLATE AREAS CHECKED



| | | | | | | |
|---------------------|--|----------------------------|---------|---------------------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | • | •• | MASON | 86 | 69 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS | | FED. AID PROJECT | | |
| • PARK ROADS | | •• SAND RIDGE STATE FOREST | | INTERNAL ROADS 2004 | | |
| | | 70 | | | | |



SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

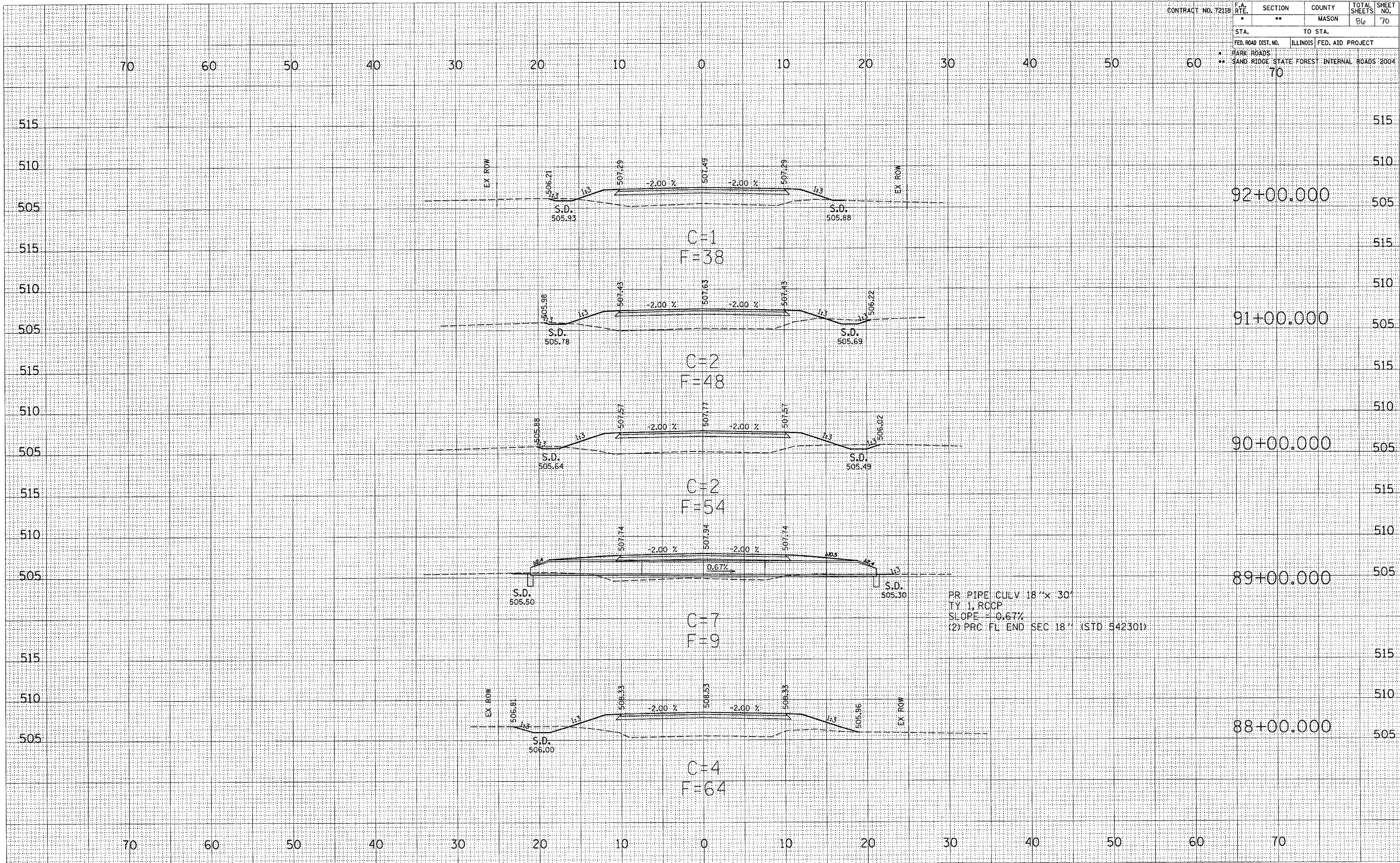
SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

| | | | | | | |
|---------------------|--|---------------------------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | * | ** | MASON | 86 | 70 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| * MARK ROADS | | SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |
| | | 70 | | | | |

FINAL SURVEY PLOTTED TEMPLATE
 SURVEY NOTE BOOK AREAS CHECKED
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DESIGN SURVEY PLOTTED TEMPLATE
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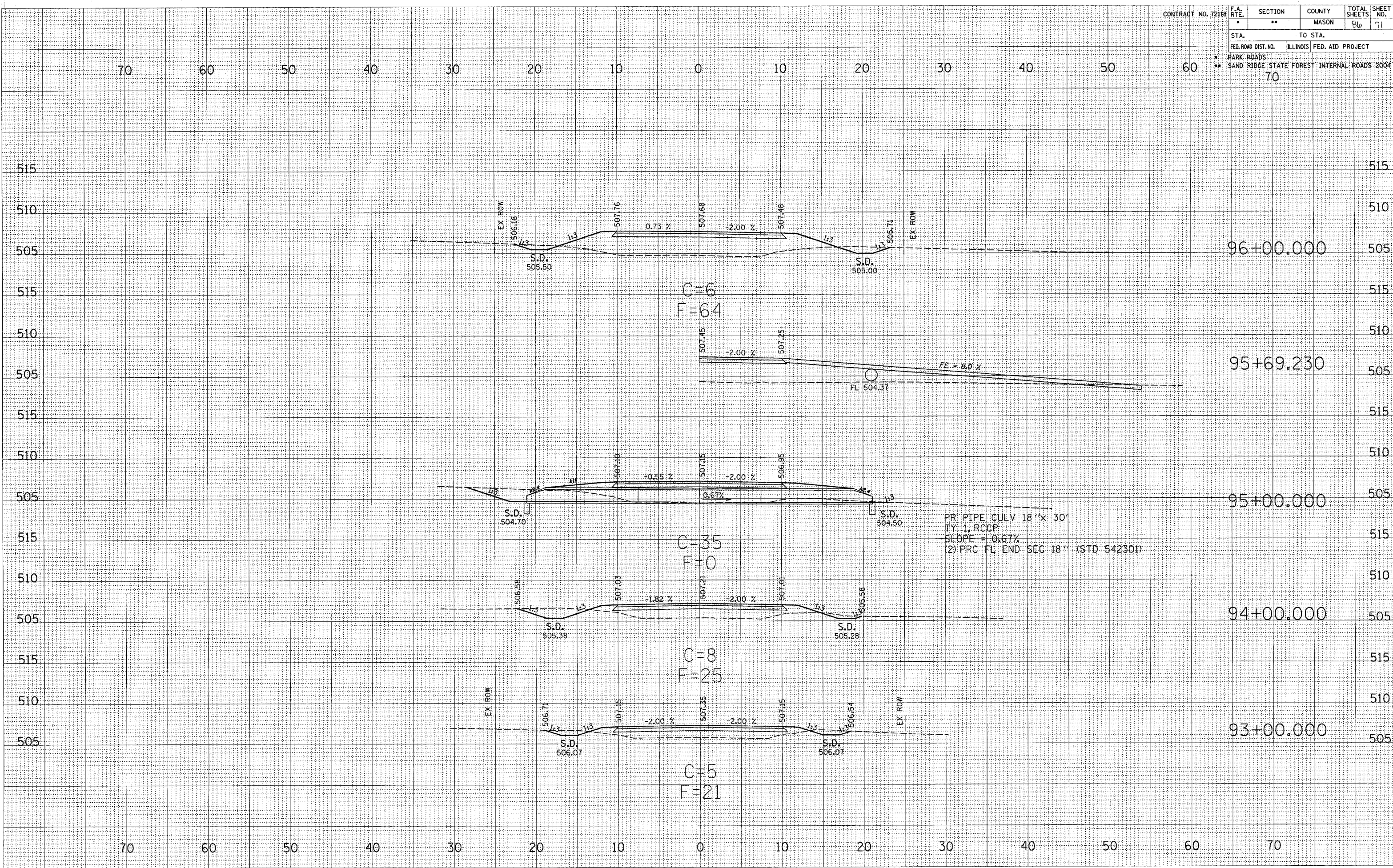


CONTRACT NO. 72118

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------------------------------------------|------------------|--------------|-----------|
| * | ** | MASON | 86 | 71 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| * HARK ROADS | SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | |
| ** | 70 | | | |

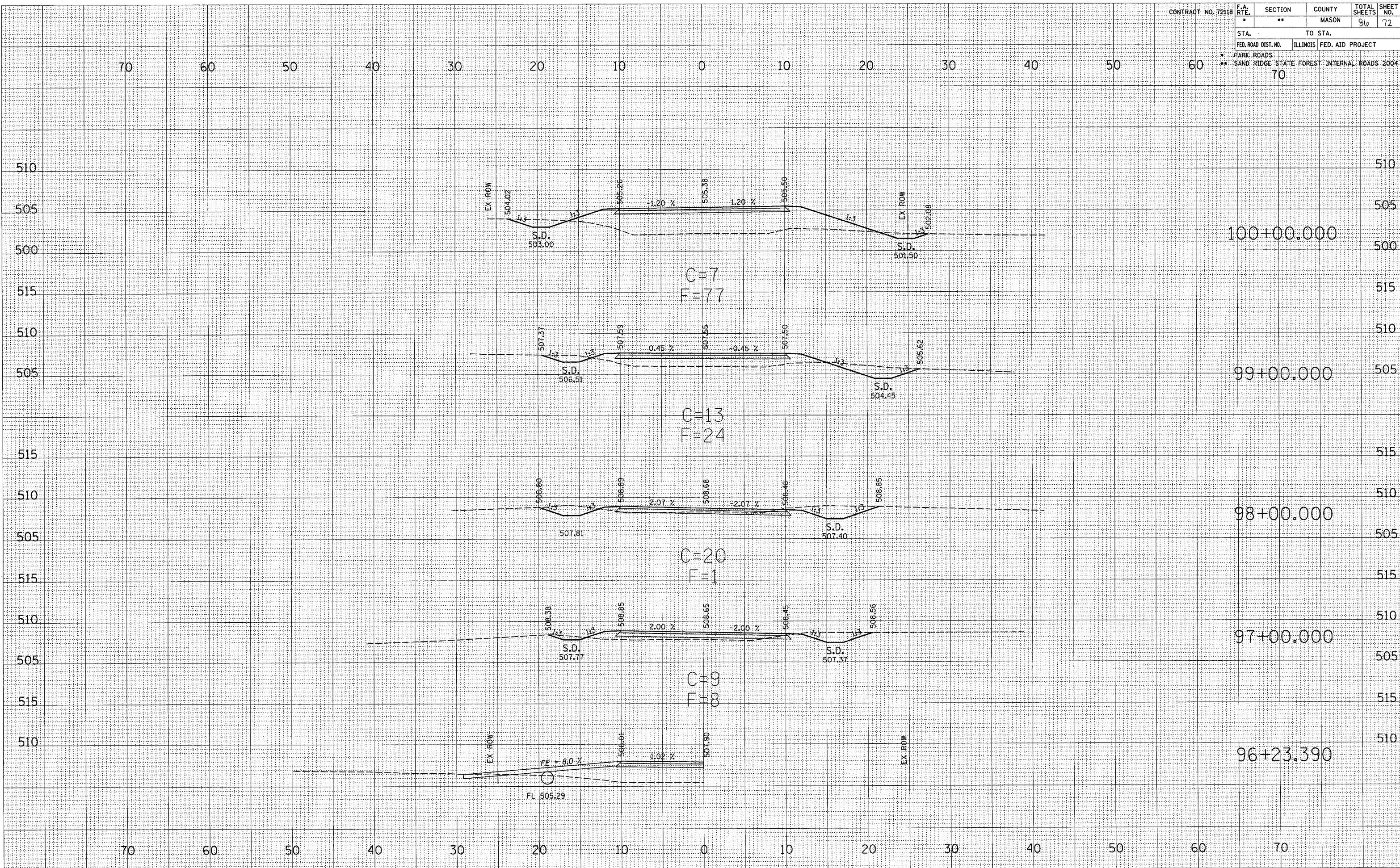
SURVEYED
 PLOTTED
 TEMP. DATE
 NOTE BOOK
 AREAS CHECKED
 NO.

SURVEYED
 PLOTTED
 TEMP. DATE
 NOTE BOOK
 AREAS CHECKED
 NO.



CONTRACT NO. 72118

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|------------------------------------------------|------------------|-----------|
| * | ** | MASON | 86 | 72 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |
| * PARK ROADS | | ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | |
| 70 | | | | |



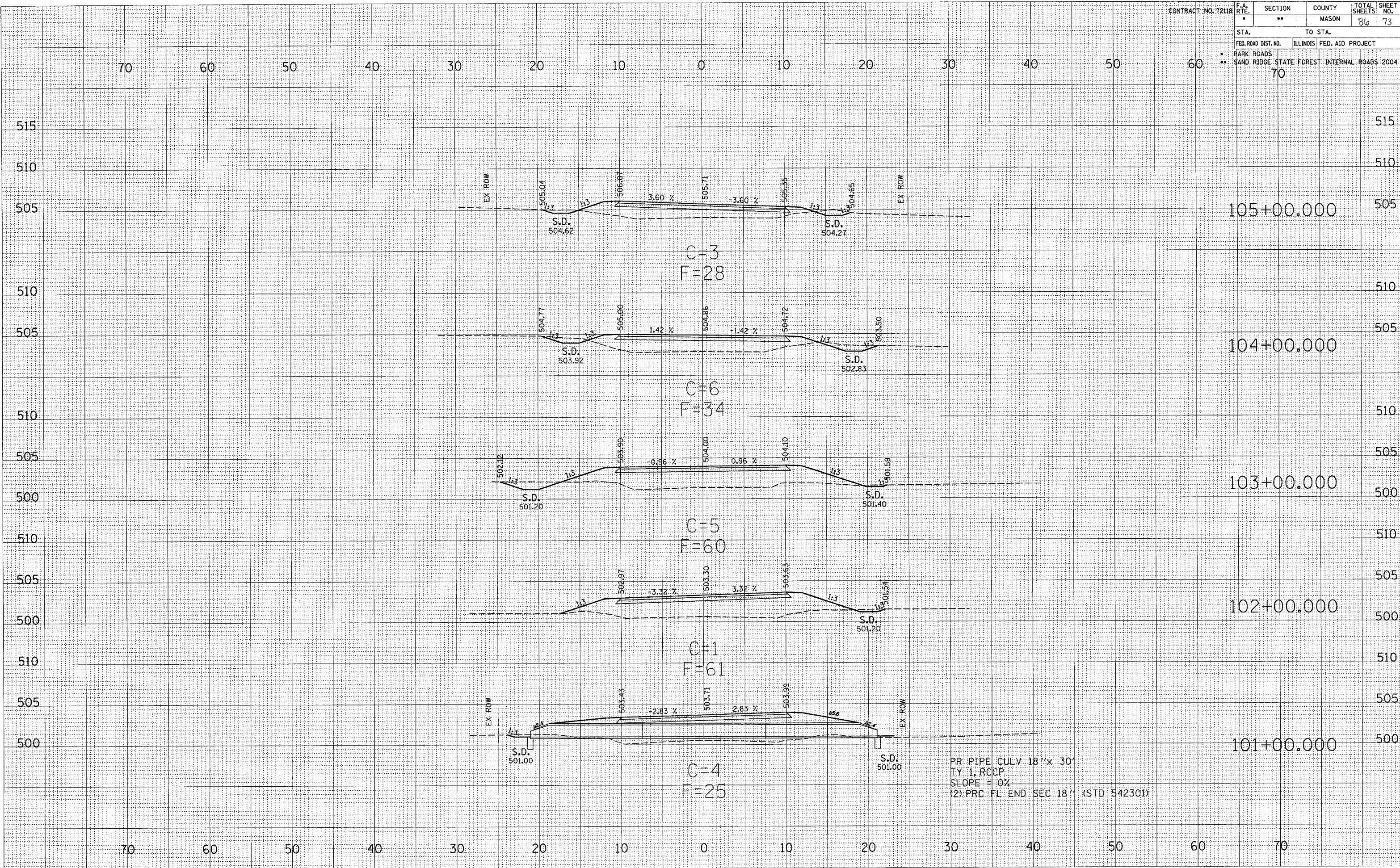
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 PLOTTED
 TEMPLATE
 AREAS CHECKED
 NO.

SURVEYED
 PLOTTED
 TEMPLATE
 AREAS CHECKED
 NO.

| | | | | | | |
|---------------------|--|-----------------------------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | • | •• | MASON | 86 | 73 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| • PARK ROADS | | • SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |
| | | 70 | | | | |

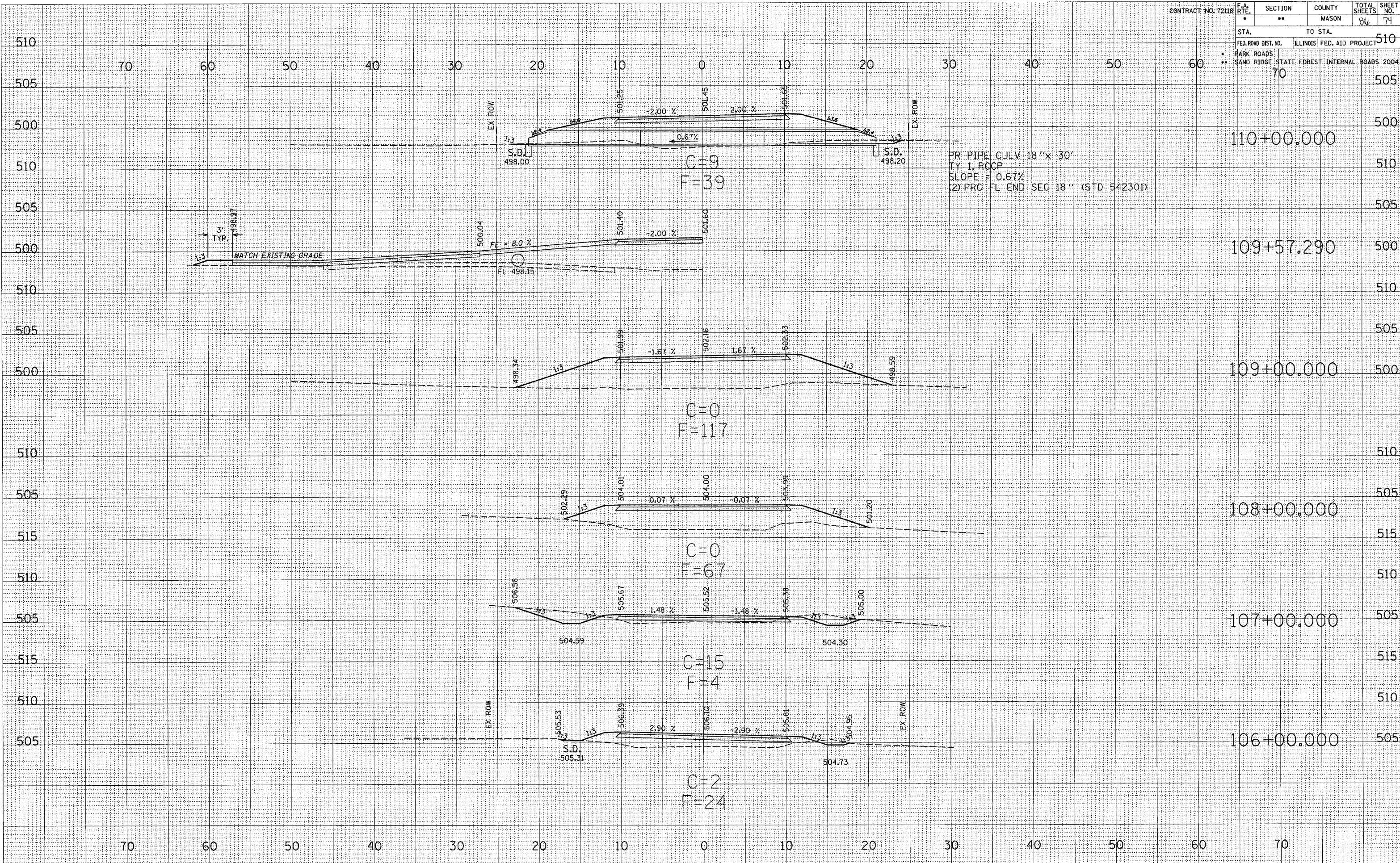
SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

SURVEYED
 PLOTTED
 NOTE BOOK
 NO.



PR PIPE CULV 18" x 30"
 T.Y. 1, RCCP
 SLOPE = 0%
 (2) PRC FL END SEC 18" (STD 542301)

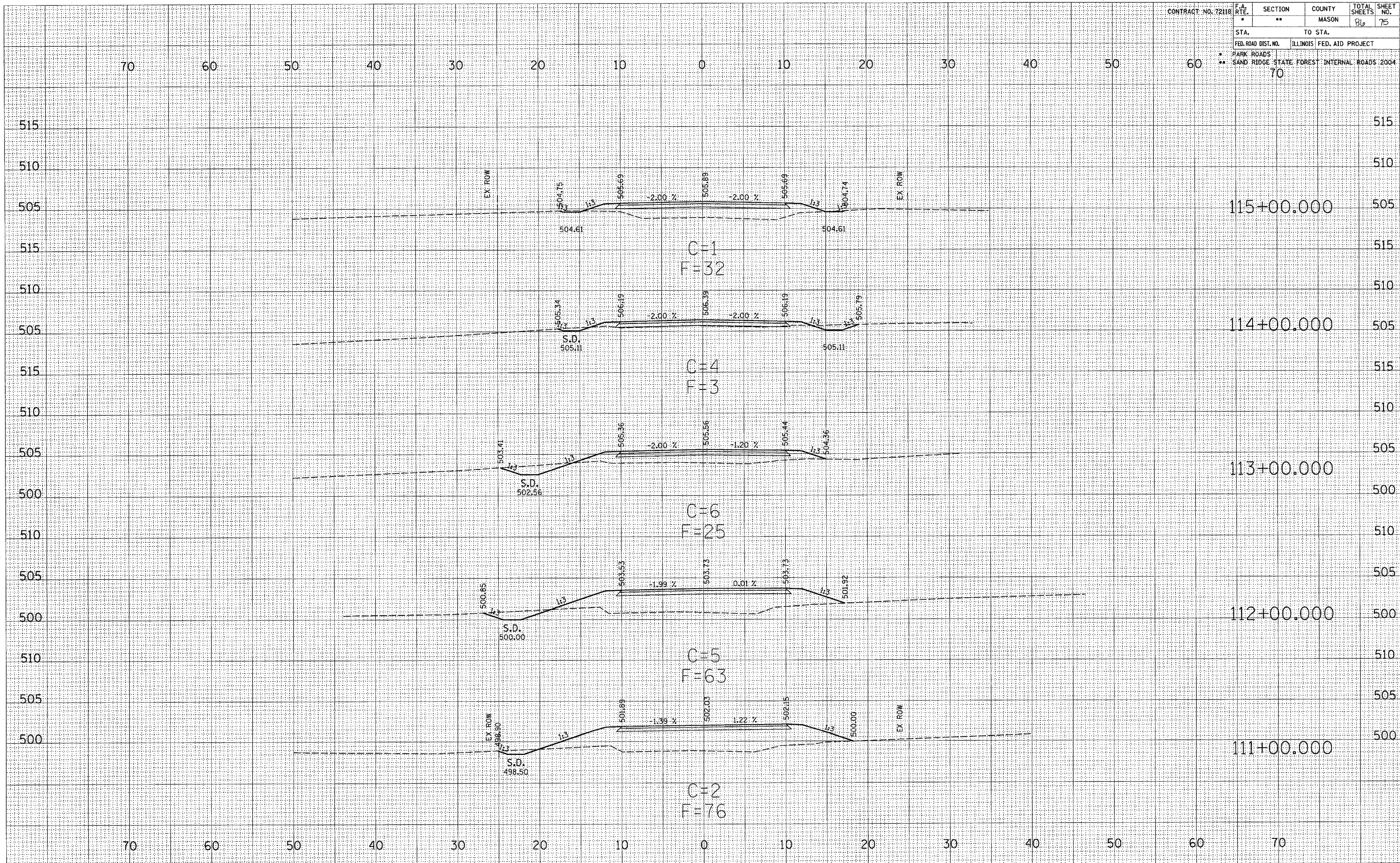
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|----------------------------------------------------------------|---------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 70 | | MASON | 86 | 74 |
| STA. | TO STA. | | | | 510 |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | | |
| * PARK ROADS ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | | |



SURVEYED
 PLOTTED
 NOTE BOOK
 AREAS CHECKED

SURVEYED
 PLOTTED
 NOTE BOOK
 AREAS CHECKED

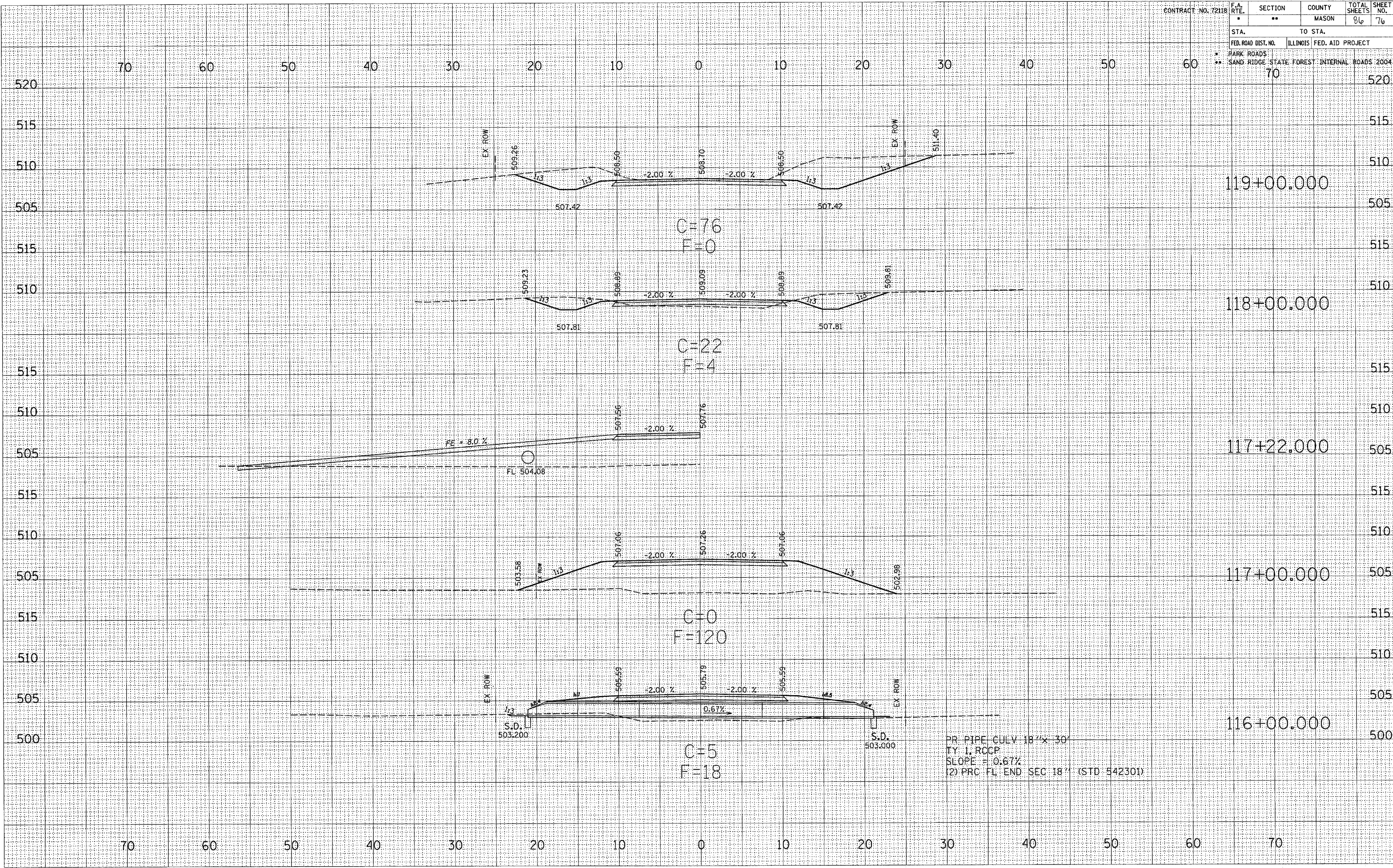
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|---------------------|--|-----------------------------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | • | •• | MASON | 86 | 75 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| • PARK ROADS | | • SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |
| | | 70 | | | | |



FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

ORIGIN SURVEY PLOTTED TEMPLATE AREAS CHECKED

SURVEYED
 PLOTTED
 NOTE BOOK NO.
 AREAS CHECKED



119+00.00

118+00.00

117+22.00

117+00.00

116+00.00

C=76
F=0

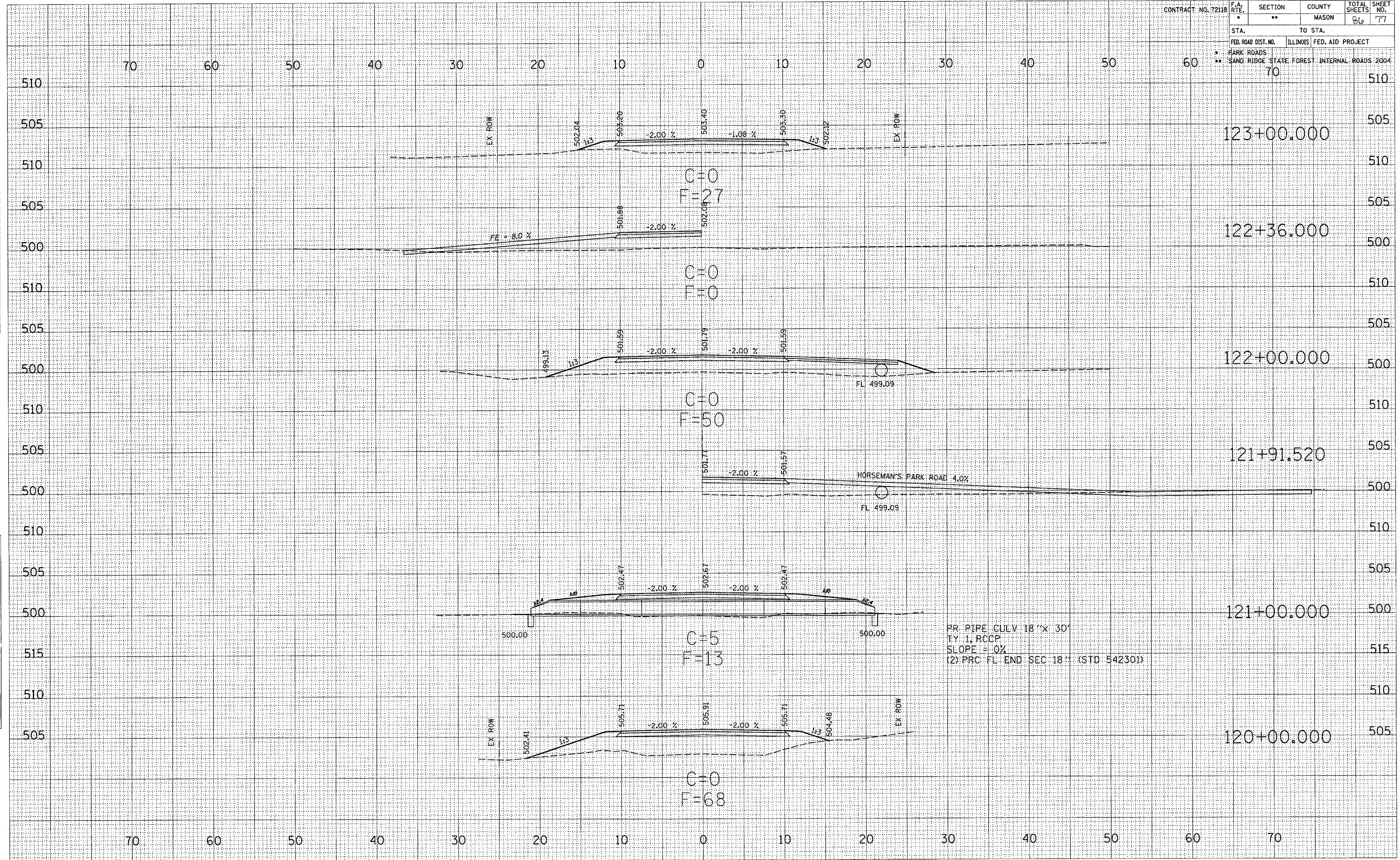
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F=4

C=0
F=120

C=5
F=18

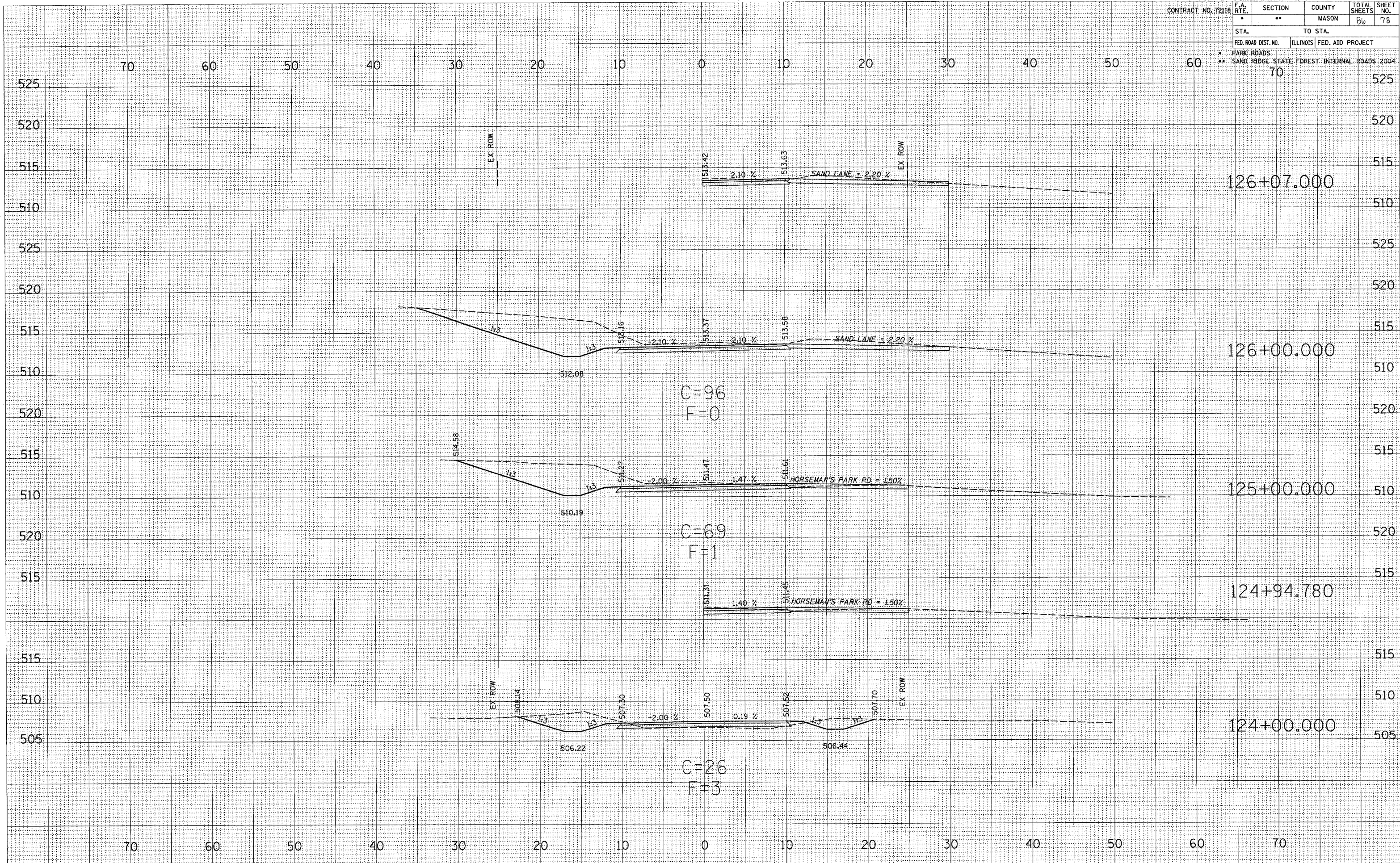
PR PIPE CULV 18"x 30"
TY 1, RCCP
SLOPE = 0.67%
(2) PRC FL END SEC 18" (STD 542301)

| | | | | | |
|---------------------|-----------|---------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | ** | MASON | 86 | 77 |
| STA. | | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |
| ** SAND RIDGE | 70 | INTERNAL ROADS 2004 | | | |



SURVEYED, PLOTTED, AND PRINTED BY: _____
 SURVEY NOTE BOOK NO. _____
 AREAS CHECKED: _____

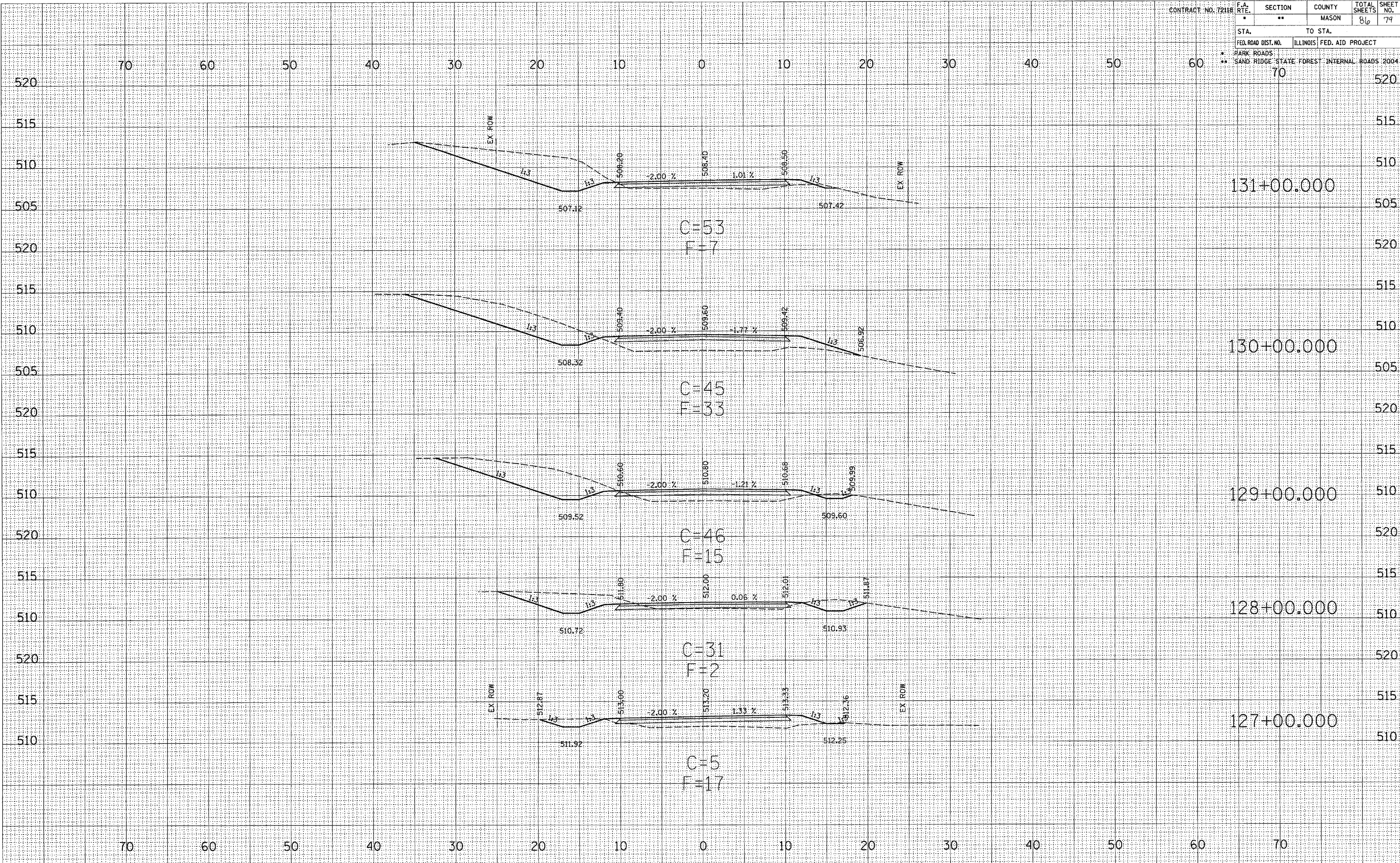
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|----------------------------|--|---------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | * | ** | MASON | 86 | 78 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| ** SAND RIDGE STATE FOREST | | INTERNAL ROADS 2004 | | | | |
| 70 | | 525 | | | | |



FINAL SURVEY PLOTTED
 SURVEY NOTE BOOK AREAS CHECKED

FINAL SURVEY PLOTTED
 SURVEY NOTE BOOK AREAS CHECKED

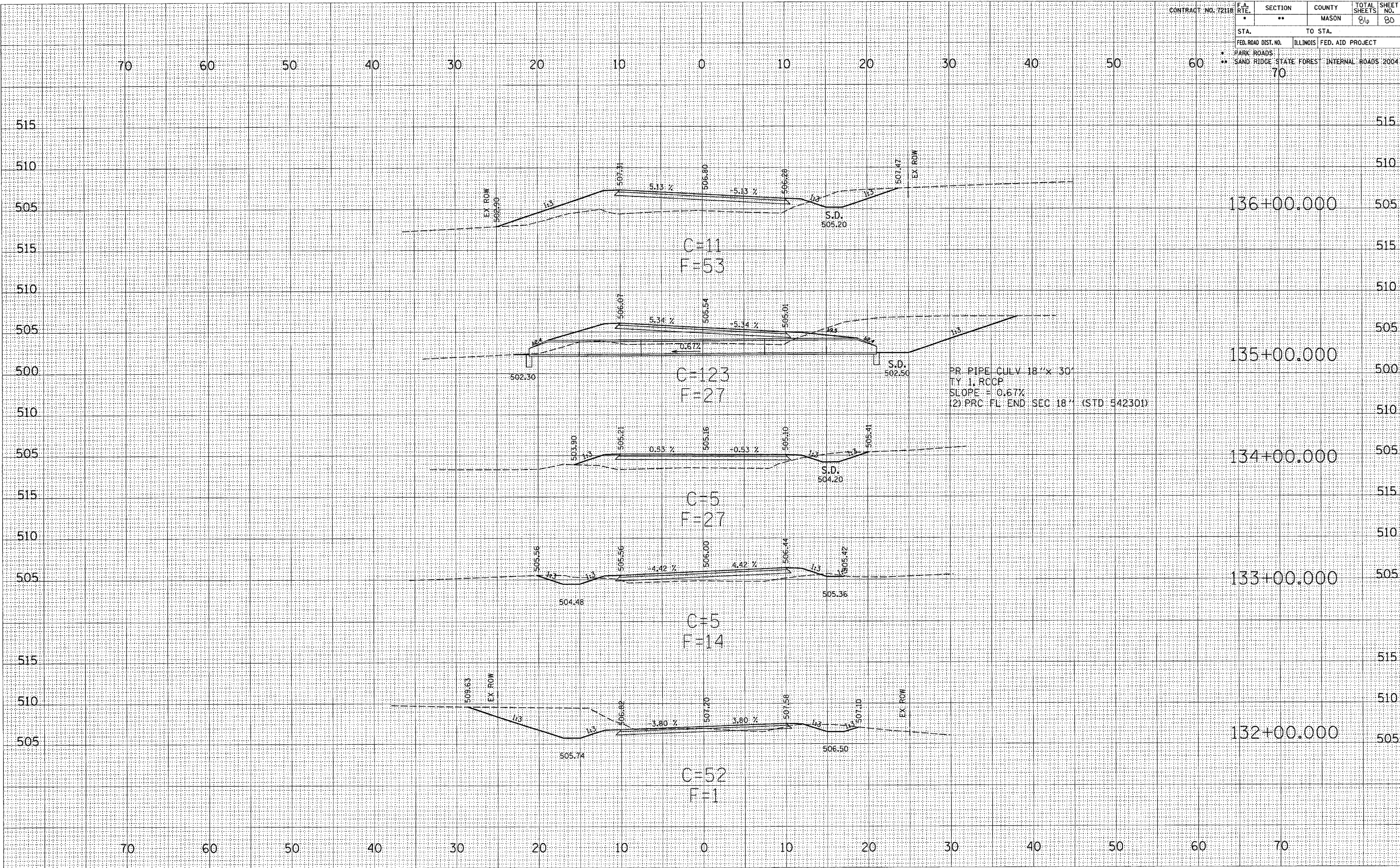
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|----------------------------|--|---------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | ** | MASON | 86 | 79 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| * HARK ROADS | | INTERNAL ROADS 2004 | | | | |
| ** SAND RIDGE STATE FOREST | | | | | | |



SURVEYED
 SURVEY
 PLOTTED
 NOTE BOOK
 AREAS CHECKED
 NO.

SURVEYED
 SURVEY
 PLOTTED
 NOTE BOOK
 AREAS CHECKED
 NO.

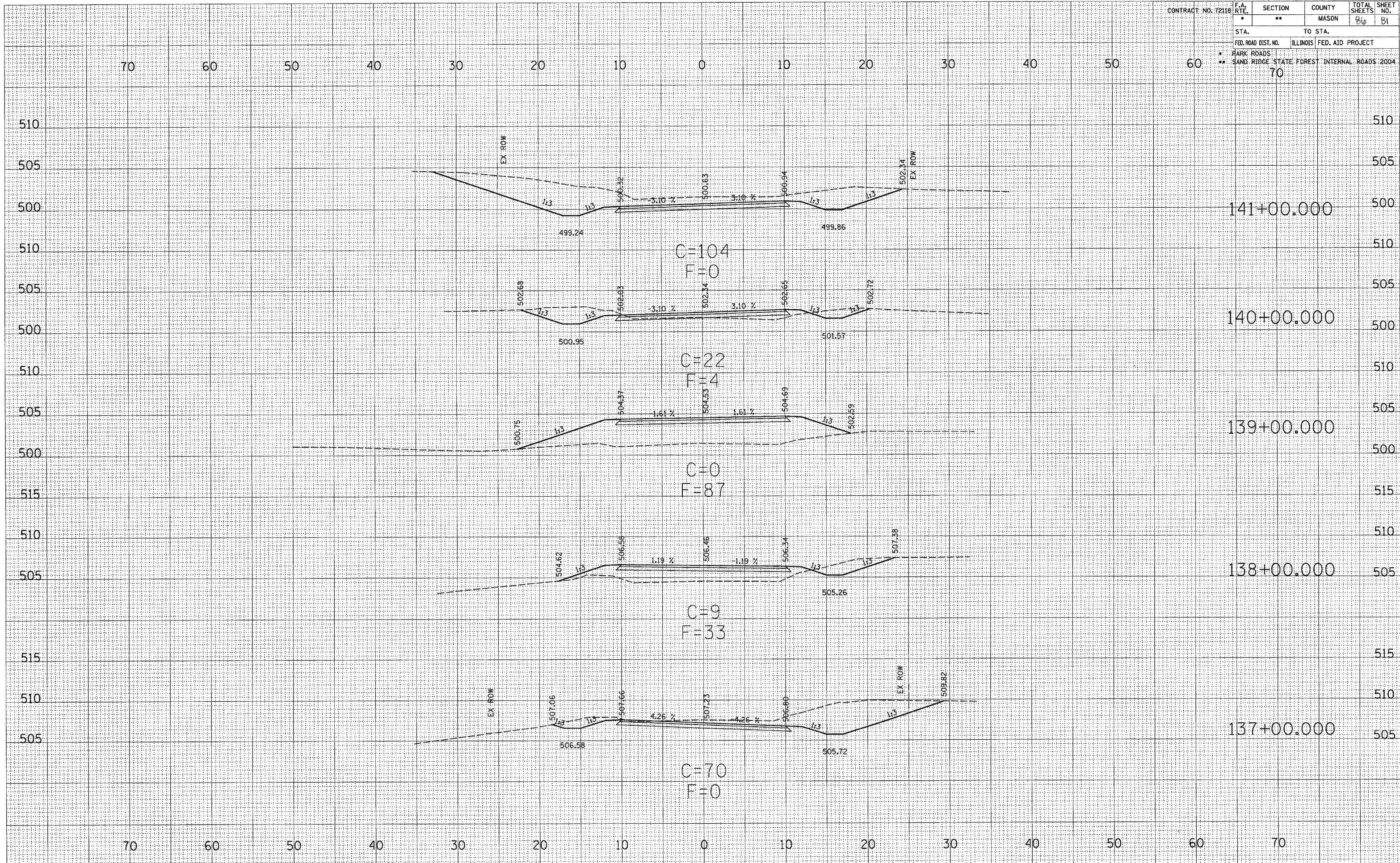
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|----------------------------|--|---------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | * | ** | MASON | 84 | 80 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| * PARK ROADS | | | | | | |
| ** SAND RIDGE STATE FOREST | | INTERNAL ROADS 2004 | | | | |
| | | 70 | | | | |



SURVEYED
 PLOTTED
 REVISIONS
 AREAS CHECKED
 NO.

SURVEYED
 PLOTTED
 REVISIONS
 AREAS CHECKED
 NO.

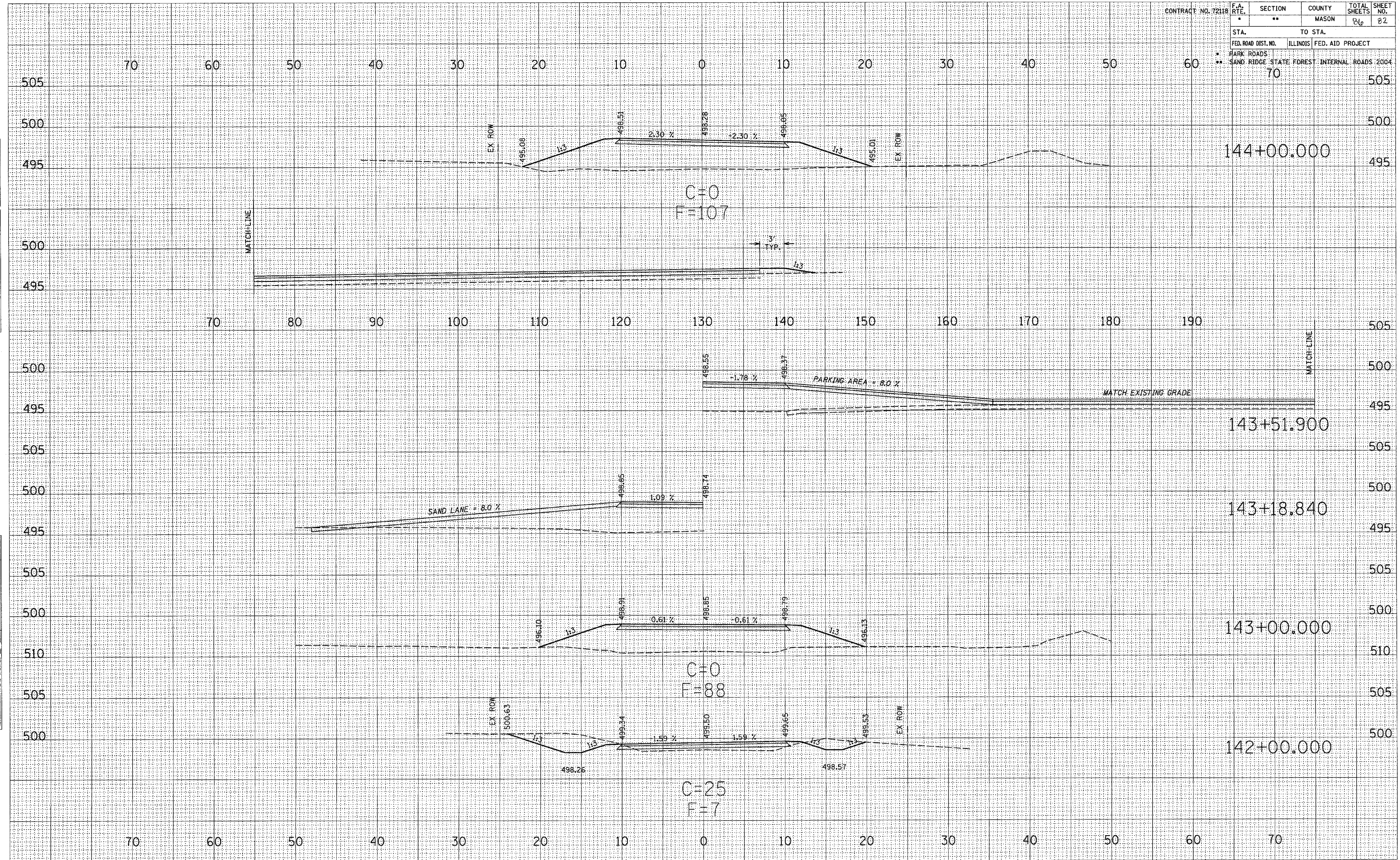
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|---------------------|--|---------------------------------------------|---------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | * | ** | MASON | 86 | 81 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | | |
| * PARK ROADS | | SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | |
| ** | | 70 | | | | |



FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

DRIVER SURVEY PLOTTED TEMPLATE AREAS CHECKED

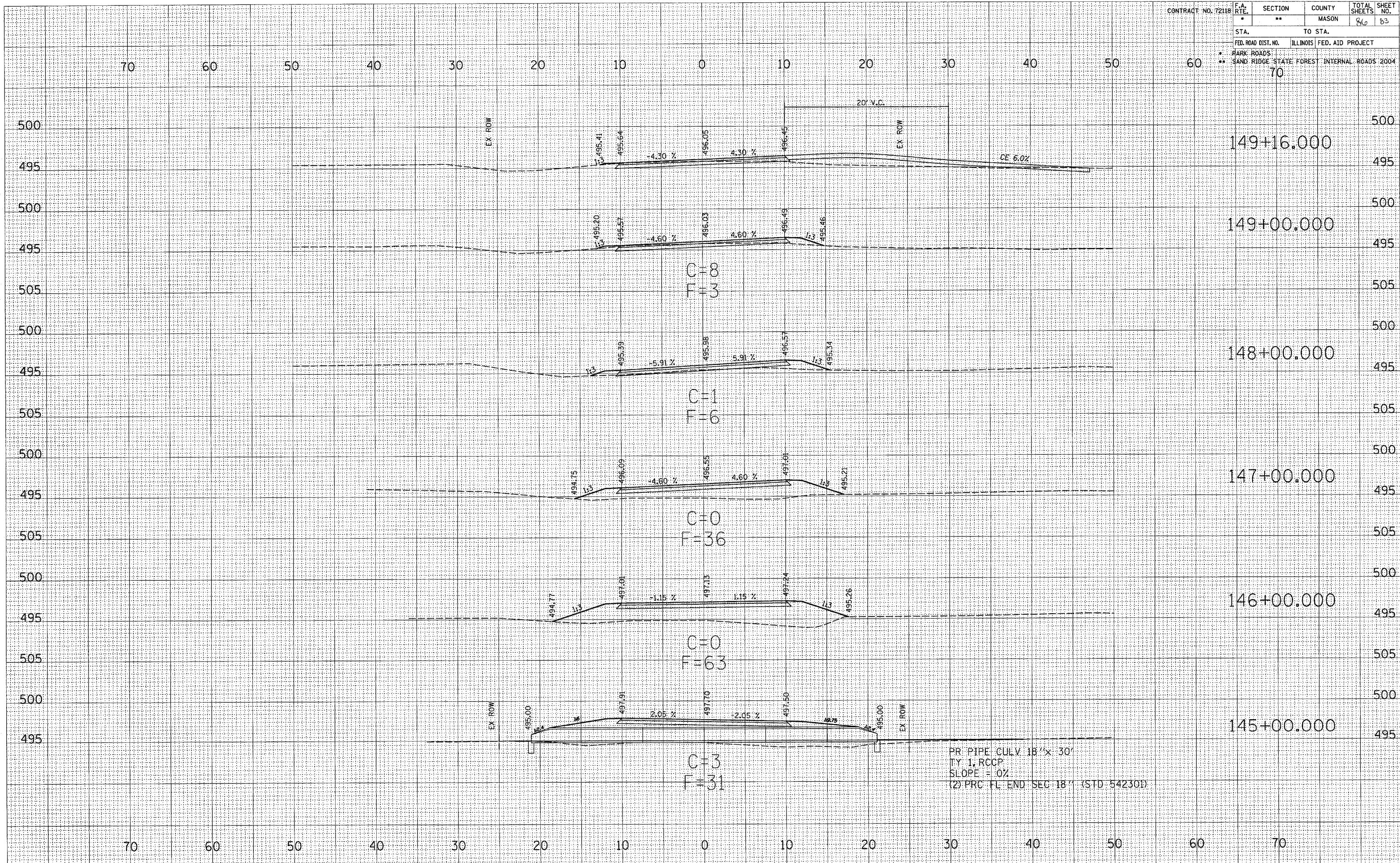
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|----------------------------|--|-----------|------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | • | •• | MASON | 86 | 82 |
| STA. | | TO STA. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | | | |
| • PARK ROADS | | | | | | |
| •• SAND RIDGE STATE FOREST | | INTERNAL | ROADS 2004 | | | |
| | | 70 | 505 | | | |



SURVEYED
 SURVEY
 NOTE BOOK
 NO.

SURVEYED
 SURVEY
 NOTE BOOK
 NO.

| | | | | | |
|---------------------------------------------|-----------|------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | ** | MASON | 86 | 83 |
| STA. | TO STA. | | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |
| HARK ROADS | | | | | |
| SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | | |
| 70 | | | | | |



C = 8
F = 3

C = 1
F = 6

C = 0
F = 36

C = 0
F = 63

C = 3
F = 31

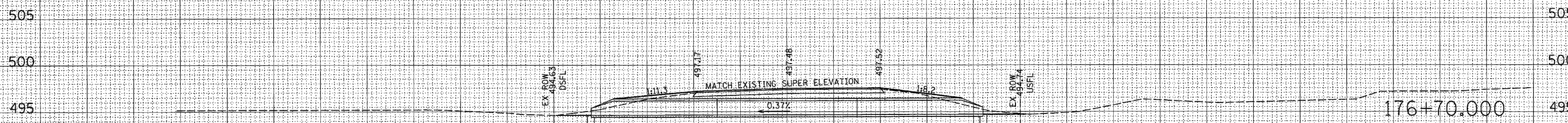
PR: PIPE CULV 18" x 30"
TY 1, RCCP
SLOPE = 0%
(2) PRC FL END SEC 18" (STD 54230D)

DATE: _____
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 TEMPLATE: _____
 AREAS CHECKED: _____
 NO. _____

CONTRACT NO. 72118

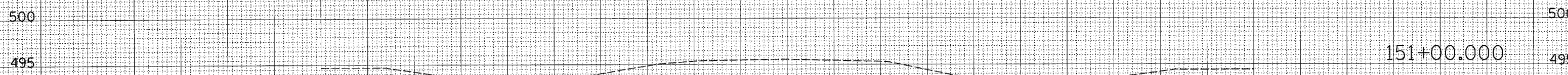
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|---------------------|-------------------------|---------------------------|--------------|------------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| • | •• | MASON | 36 | 34 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| • | PARK ROADS | • | INTERNAL | ROADS 2004 |
| •• | SAND RIDGE STATE FOREST | • | INTERNAL | ROADS 2004 |
| | 70 | | | |

70 60 50 40 30 20 10 0 10 20 30 40 50 60

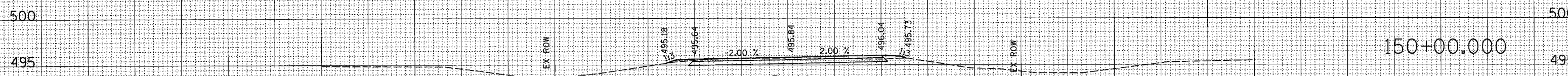


PR: PIPE CULV 18'x 30'
 TY: 1. RCP
 SLOPE = 0.37%
 (2) PRO. FL. END SEC 18" (STD 542301)

176+70.000



151+00.000



C=11
 F=1

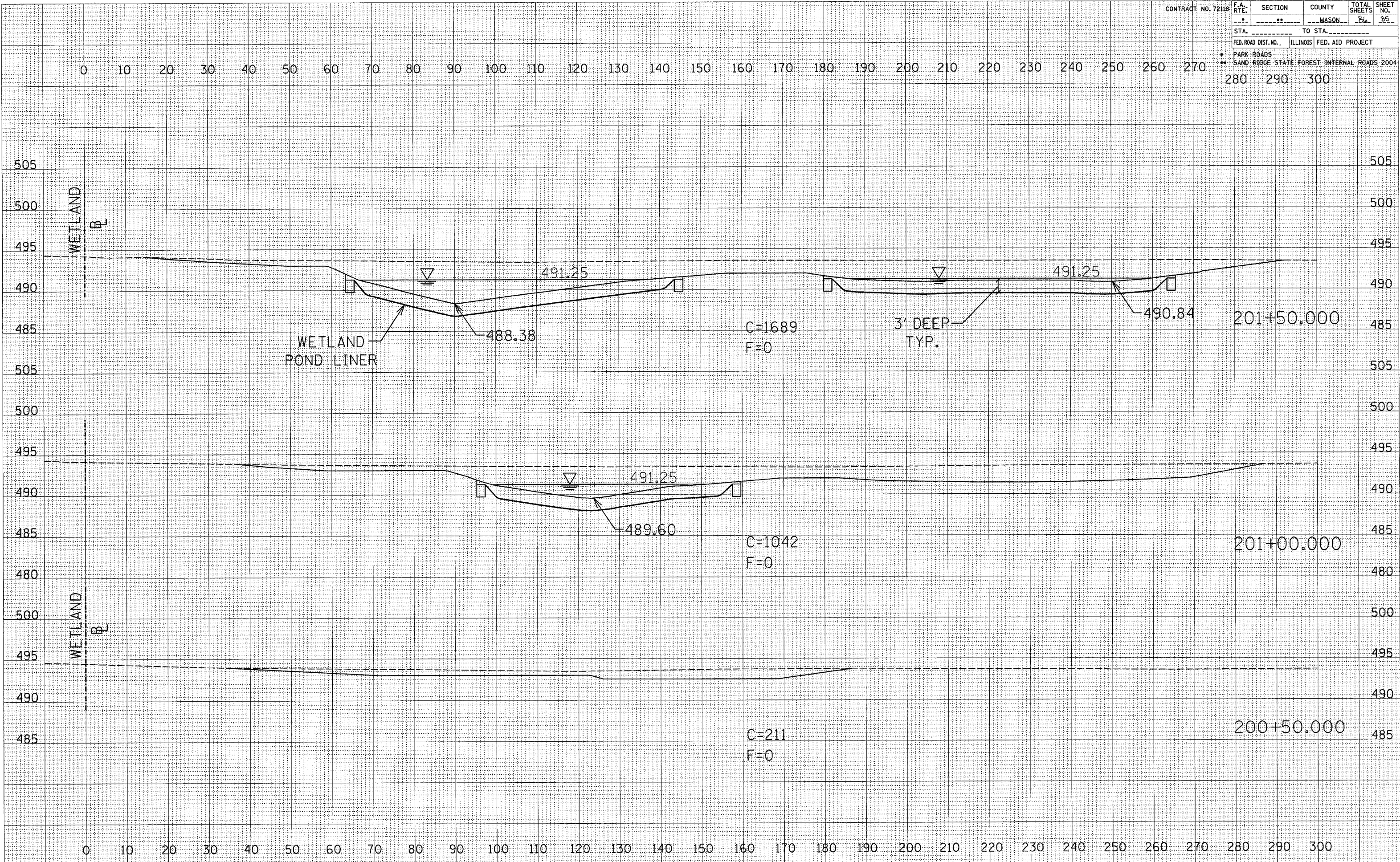
150+00.000

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

| | | | | | |
|---------------------|------------|---------------------------------------------|--------|--------------|-----------|
| CONTRACT NO. T2118 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | ** | MASON | 26 | 25 |
| STA. | TO STA. | | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |
| | PARK ROADS | SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | |
| | 280 | 290 | 300 | | |



WETLAND MITIGATION POND

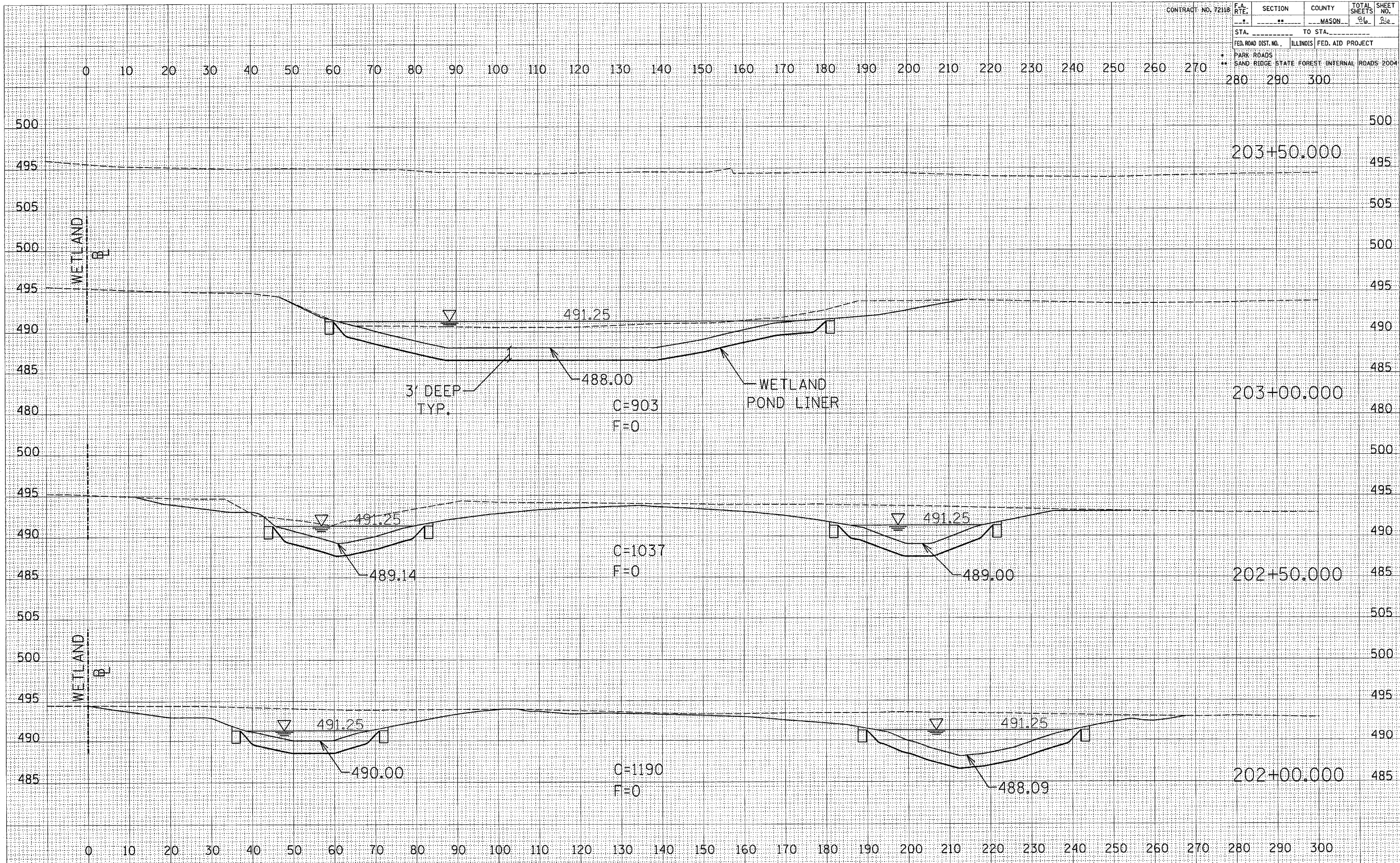
SURVEYED
 SURVEY PLOTTED
 NOTE BOOK
 NO.

SURVEYED
 SURVEY PLOTTED
 NOTE BOOK
 NO.

| | | | | | | |
|------------------------------------------------|-----|-----------|------------------|--------|--------------|-----------|
| CONTRACT NO. 72118 | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | .. | ** | MASON | 96 | 96 |
| STA. _____ TO STA. _____ | | | | | | |
| FED. ROAD DIST. NO. _____ | | ILLINOIS | FED. AID PROJECT | | | |
| * PARK ROADS | | | | | | |
| ** SAND RIDGE STATE FOREST INTERNAL ROADS 2004 | | | | | | |
| 280 | 290 | 300 | | | | |

ORIGINAL SURVEY
 SURVEY PLOTTED
 NOTE BOOK NO. _____
 AREAS CHECKED _____

DATE _____
 SURVEY PLOTTED
 NOTE BOOK NO. _____
 AREAS CHECKED _____



WETLAND MITIGATION POND