

FEDERAL AID PROGRAM ENGINEER, CARMEN E. RAMOS P.E., SCHAUMBURG IL

08-01-2025 LETTING ITEM 009

FOR INDEX OF SHEETS, HIGHWAY
STANDARDS, AND PR LEGEND
SEE SHEET NO. 2

WHEELER ROAD

DESIGN DESIGNATION
MINOR COLLECTOR
DESIGN SPEED = 45 M.P.H.
POSTED SPEED = 45 M.P.H.
ADT (2023) = 625 VPD



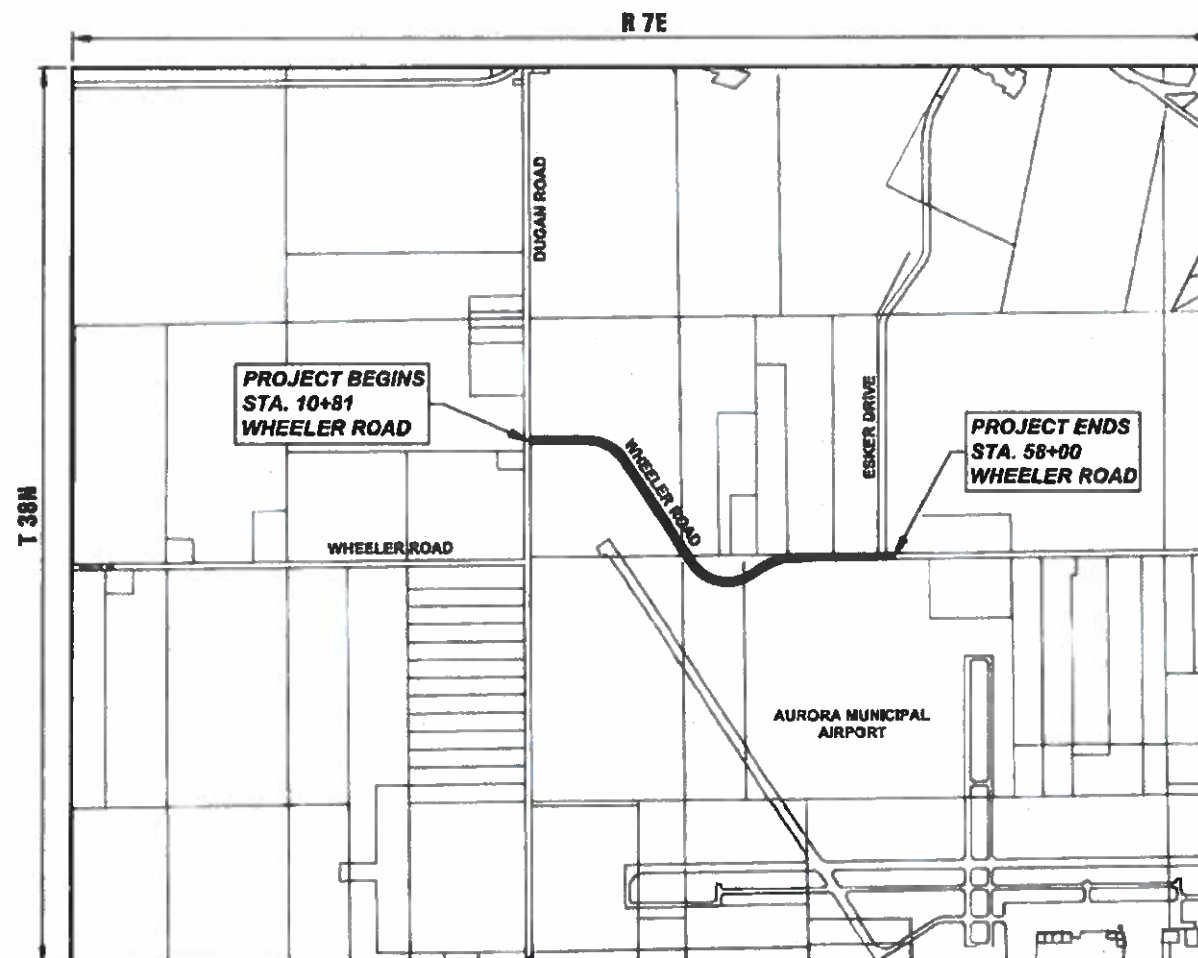
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



CONTRACT NO. 61L67

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
FEDERAL-AID HIGHWAY**

FAU 2305 (WHEELER ROAD)
DUGAN ROAD TO ESKER DRIVE
ROADWAY IMPROVEMENTS
SECTION 24-00036-00-FP
PROJECT NUMBER: XRD6 (891)
VILLAGE OF SUGAR GROVE
KANE COUNTY
JOB NO. C-91-169-25



LOCATION MAP (SCALE 1"=1000')
S 1/2 SECTION 7 AND N 1/2 SECTION 18, T38N, R7E, SUGAR GROVE TOWNSHIP
GROSS LENGTH OF PROJECT = 4,719 FEET (0.89 MILES)
NET LENGTH OF PROJECT = 4,719 FEET (0.89 MILES)

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 1 |
| CONTRACT NO. 61L67 | | | | |



| | |
|---|--|
| STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | |
| APPROVED | <i>[Signature]</i> MAY 12, 2025 VILLAGE OF SUGAR GROVE, VILLAGE ENGINEER |
| PASSED | <i>[Signature]</i> MAY 29, 2025 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS |
| RELEASING FOR BID BASED ON LIMITED REVIEW | <i>[Signature]</i> MAY 29, 2025 REGIONAL ENGINEER |

| | |
|---|--|
| DATE: 5/12/25 <i>[Signature]</i> CHRISTOPHER J. OTT | |
| LICENSE EXPIRES: NOVEMBER 30, 2025 | |
| SWEETS: 1-23 | |

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (830) 466-6700

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OF THE STATE OF ILLINOIS

FILE NAME = H:\SDSKPROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-COVER
Plotted: May 12, 2025 @ 2:05 PM By: Kris Pung - Model Name: 02 Index - 22x34

INDEX OF SHEETS

- 1. COVER SHEET
- 2. INDEX OF SHEETS, DETAILS, HIGHWAY STANDARDS AND GENERAL NOTES
- 3.-4. SUMMARY OF QUANTITIES
- 5.-7. TYPICAL SECTIONS
- 8. SIGNING SCHEDULE
- 9.-19. WHEELER ROAD IMPORVEMENT PLAN
- 20.-23. IDOT DISTRICT 1 DETAILS

IDOT HIGHWAY STANDARDS

| | |
|-----------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15'(4.5M) TO 24" (600MM) FROM PAVEMENT EDGE |
| 701011-04 | OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY |
| 701201-05 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701306-04 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY |
| 701501-06 | URBAN LANE CLOSURE 2L, 2W, UNDIVIDED |
| 701901-10 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-04 | SIGN PANEL ERECTION DETAILS |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 728001-01 | TELESCOPING STEEL SIGN SUPPORT |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |

IDOT DISTRICT ONE STANDARD DETAILS

| SHEET. NO. | | |
|------------|---------|---|
| 20. | (BD-32) | BUTT JOINT AND HMA TAPER DETAILS |
| 21. | (TC-10) | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS |
| 22. | (TC-13) | TYPICAL PAVEMENT MARKINGS |
| 23. | (TC-22) | ARTERIAL ROAD INFORMATION SIGN |

GENERAL NOTES

SPECIFICATIONS, STANDARDS, AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION,"ADOPTED JANUARY 1, 2022 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS,"ADOPTED JANUARY 1, 2025, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", SEVENTH EDITION, THE CODES AND ORDINANCES OF THE VILLAGE OF SUGAR GROVE, ILLINOIS, THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

NO SUBSTITUTIONS OR VARIANCES WILL BE PERMITTED TO ANY STANDARD NOTES OR ORDINANCES UNLESS APPROVED OTHERWISE IN WRITING PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS AND THE PLANS

MISCELLANEOUS

THE THICKNESS OF ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE ASPHALT MIXTURES ARE TO BE PLACED.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.

WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.

THE ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET AND DRIVEWAY ACCESS TO EACH ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL DISPOSE OF AND REMOVE FROM THE SITE EACH DAY ALL CURB AND GUTTER, PAVEMENT AND ALL OTHER EXCAVATED MATERIAL NOT FOR SALVAGE.

THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE RIGHT-OF-WAY OF ANY STREET SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.

ALL EXISTING SIGNS (INCLUDING THOSE LOCATED ON UTILITY/LIGHT POLES) THAT DO NOT CONFLICT WITH THE IMPROVEMENTS SHALL REMAIN IN PLACE UNLESS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, THE OWNER'S AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE FROM THE CENTERLINE AS SHOWN ON THE PLANS.

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IF ANY UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, FIELD TILES AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND NOT NECESSARY COMPLETE: THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS.

COMMITMENTS

THE PAVEMENT ELEVATION AT FLOODPLAIN WILL NOT CHANGE. FLOODPLAIN IS FROM STA 39+15 TO STA 40+18.

SUPPLEMENTAL LEGEND

| | |
|--|--|
| | PAVEMENT REMOVAL |
| | HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT |
| | HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT |
| | AGGREGATE WEDGE SHOULDER, TYPE B |



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USER NAME = Kris Pung
PLOT SCALE =
PLOT DATE = May 12, 2025 @ 2:05 PM

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, DETAILS, HIGHWAY
STANDARDS AND GENERAL NOTES

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|----------------|--------------------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 2 |
| | | CONTRACT NO. 6IL67 | | |
| ILLINOIS | | FED. AID PROJECT | | |

Plotted: May 12, 2025 @ 2:05 PM By: Kris Pung - Media Home: 03 SSD - 22x34

FILE NAME = H:\2025\FRQ\SSG_SUGAR GROVE\2024\SSG2409\DWG_FINAL_ENG\SSG2409-COVER

| | CODE NUMBER | ITEM DESCRIPTION | UNIT | ROADWAY |
|--|----------------|--|-------|----------------------------------|
| | | | | 75% FEDERAL 25% LOCAL 0004 |
| | | | | |
| | 20200100 | EARTH EXCAVATION | CU YD | 180 |
| | | | | |
| | 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 650 |
| | | | | |
| | 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD | 1,960 |
| | | | | |
| | 30300001 | AGGREGATE SUBGRADE IMPROVEMENT | CU YD | 650 |
| | | | | |
| | 35800100 | PREPARATION OF BASE | SQ YD | 13,060 |
| | | | | |
| | 35800200 | AGGREGATE BASE REPAIR | TON | 325 |
| | | | | |
| | 40600275 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 29,385 |
| | | | | |
| | 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 2,939 |
| | | | | |
| | 40600370 | LONGITUDINAL JOINT SEALANT | FOOT | 4,719 |
| | | | | |
| | 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 44 |
| | | | | |
| | 40603080 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 | TON | 1,829 |
| | | | | |
| | 40604060 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 | TON | 1,463 |
| | | | | |
| | 44000100 | PAVEMENT REMOVAL | SQ YD | 13,060 |
| | | | | |

Δ INDICATES SPECIALTY ITEM



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| | | |
|------------------------------------|------------|-----------|
| USER NAME = Kris Pung | DESIGNED - | REVISED - |
| PLOT SCALE = | DRAWN - | REVISED - |
| PLOT DATE = May 12, 2025 @ 2:05 PM | CHECKED - | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

| | | |
|---------------|---------------------|----------------------|
| SCALE: H.T.S. | SHEET 1 OF 2 SHEETS | STA. N/A TO STA. N/A |
|---------------|---------------------|----------------------|

| | | | | |
|---------------------------|---------------------------|----------------|-----------------------|-------------------|
| F.A.U. RTE. 2305 | SECTION 24-00036-00-FP | COUNTY KANE | TOTAL SHEETS 23 | SHEET NO. 3 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 61L67 | |

FILE LOCATION: H:\2025\FRQ\SSG_SUGAR GROVE\2024\SSG2409\DWG_FINAL_ENG\SSG2409-COVER

Plotter: May 12, 2025 @ 2:05 PM B.R. Kris Pung - Model Name: D4 S20 - 22x34

FILE NAME: H:\505KPROJ\SSG_SUGAR GROVE\2024\SSG2409\DWG FINAL ENG\SSG2409-COVER

| | CODE NUMBER | ITEM DESCRIPTION | UNIT | ROADWAY |
|---|----------------|--|-------|----------------------------------|
| | | | | 75% FEDERAL 25% LOCAL 0004 |
| | | | | |
| | 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 310 |
| | | | | |
| | 67100100 | MOBILIZATION | L SUM | 1 |
| | | | | |
| | 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 1 |
| | | | | |
| | 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L SUM | 1 |
| | | | | |
| | 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 1,500 |
| | | | | |
| | 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 500 |
| | | | | |
| Δ | 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 36.8 |
| | | | | |
| | 72400310 | REMOVE SIGN PANEL - TYPE 1 | SQ FT | 23.3 |
| | | | | |
| Δ | 72800100 | TELESCOPING STEEL SIGN SUPPORT | FOOT | 96 |
| | | | | |
| Δ | 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 18,346 |
| | | | | |
| | X7200061 | TEMPORARY INFORMATION SIGNING | SQ FT | 51.4 |
| | | | | |
| | XX006947 | HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT | SQ YD | 236 |
| | | | | |

Δ INDICATES SPECIALTY ITEM



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|------------|--------------------------|
| USER NAME | ⇒ Kris Pung |
| DESIGNED | - |
| DRAWN | - |
| PLOT SCALE | = |
| CHECKED | - |
| REVIS | - |
| PLOT DATE | ⇒ May 12, 2025 @ 2:06 PM |
| DATE | - |
| REVISED | - |

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| DESIGNED | - |
| DRAWN | - |
| CHECKED | - |
| REVIS | - |
| DATE | - |
| REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

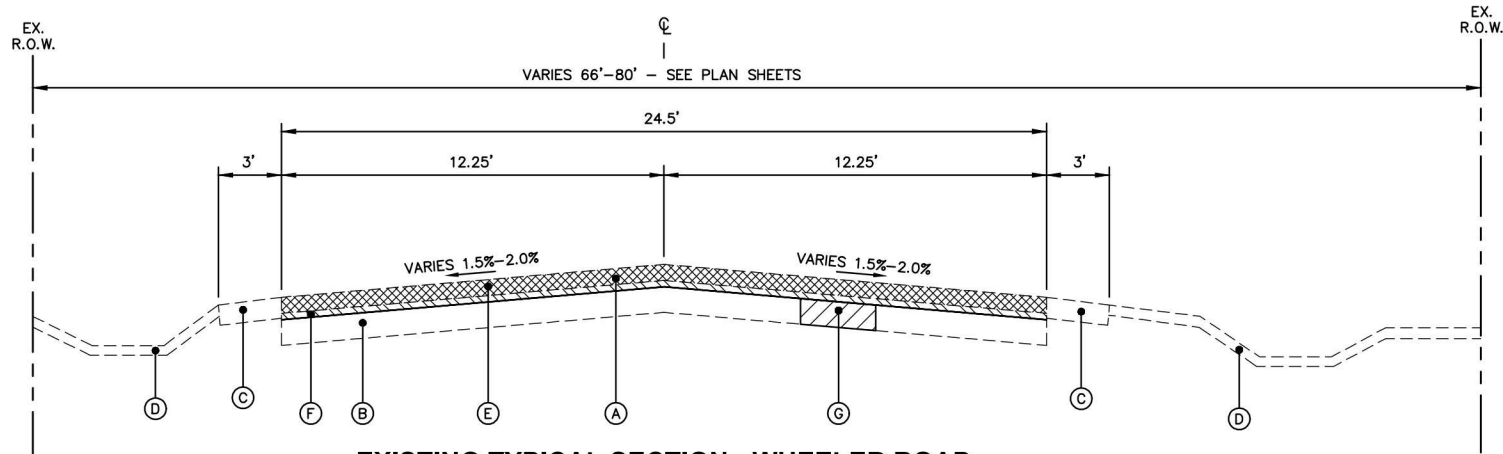
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| SCALE: N.T.S. | SHEET 2 OF 2 SHEETS | STA. N/A | TO STA. N/A |
|---------------|---------------------|----------|-------------|

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 4 |
| CONTRACT NO. 61L67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

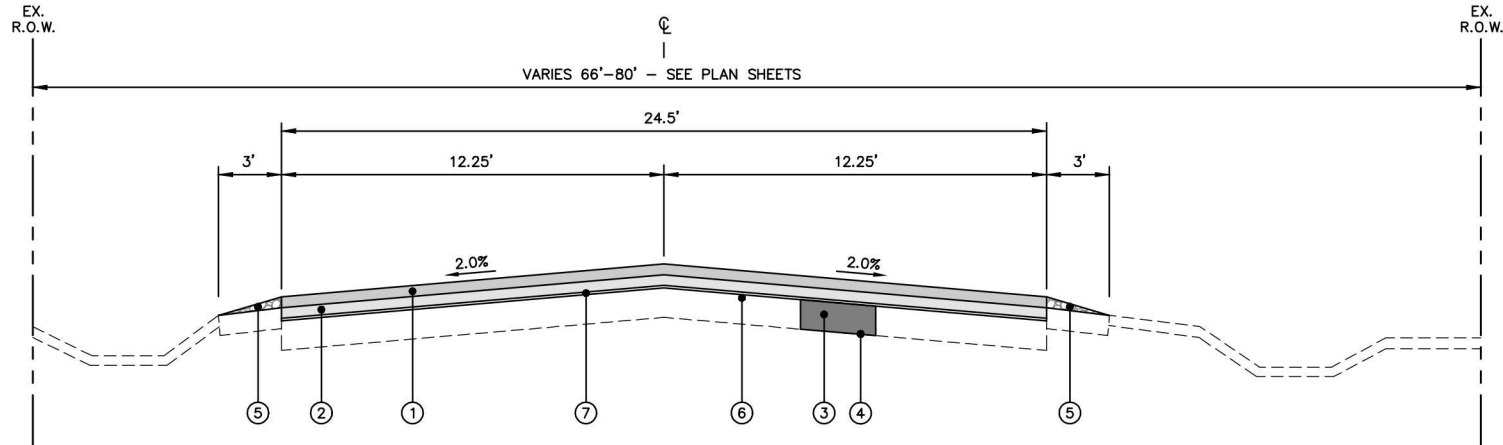
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STA 10+81 TO STA 16+14,
STA 23+02 TO STA 33+95,
STA 43+25 TO STA 43+71,
STA 48+39 TO STA 58+00



STA 10+81 TO STA 16+14,
STA 23+02 TO STA 33+95,
STA 43+25 TO STA 43+71,
STA 48+39 TO STA 58+00

EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT (3.5" - 4.25")
- (B) EXISTING AGGREGATE BASE COURSE (8" - 13")
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING PARKWAY
- (E) PAVEMENT REMOVAL (3.5" - 4.25")
- (F) EARTH EXCAVATION (0" - 0.75")
- (G) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS (LOCATIONS TO BE DETERMINED BY ENGINEER)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| OPERATION | MIXTURE TYPE | AIR VOIDS @ NDES | QMP |
|---|--|---------------------|-----------|
| PAVEMENT RESURFACING | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2.0" | 4% @ 50 GYR. | LR1030-02 |
| | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5" | 4% @ 50 GYR. | LR1030-02 |
| HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 3.0" (IN 2 LIFTS) | 4% @ 50 GYR. | LR1030-02 |

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER
LR 1030-2.

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22"
AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22".
UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2.0"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5"
- (3) AGGREGATE SUBGRADE IMPROVEMENT (7" - 12") (LOCATIONS TO BE DETERMINED BY ENGINEER)
- (4) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (5) AGGREGATE WEDGE SHOULDER, TYPE B
- (6) PREPARATION OF BASE
- (7) AGGREGATE BASE REPAIR

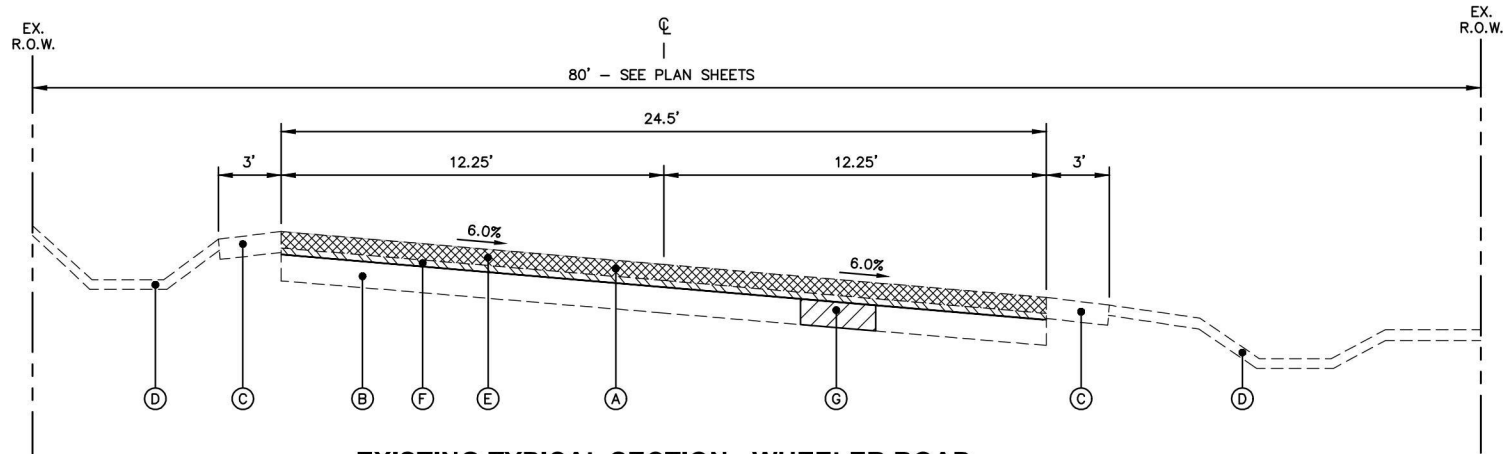
NOTES:
THE UNDERCUT QUANTITIES HAVE BEEN ESTIMATED BASED ON FIELD
OBSERVATIONS DURING DESIGN. ACTUAL QUANTITIES TO BE DETERMINED
DURING CONSTRUCTION.

NO PROPOSED WORK WILL TAKE PLACE OUTSIDE OF THE R.O.W.

LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON HMA BINDER COURSE
IL-19.0 N50.

Plotted: May 12, 2025 @ 2:06 PM By: Kris Pung - Model Name: 06 TypSection - 22x34

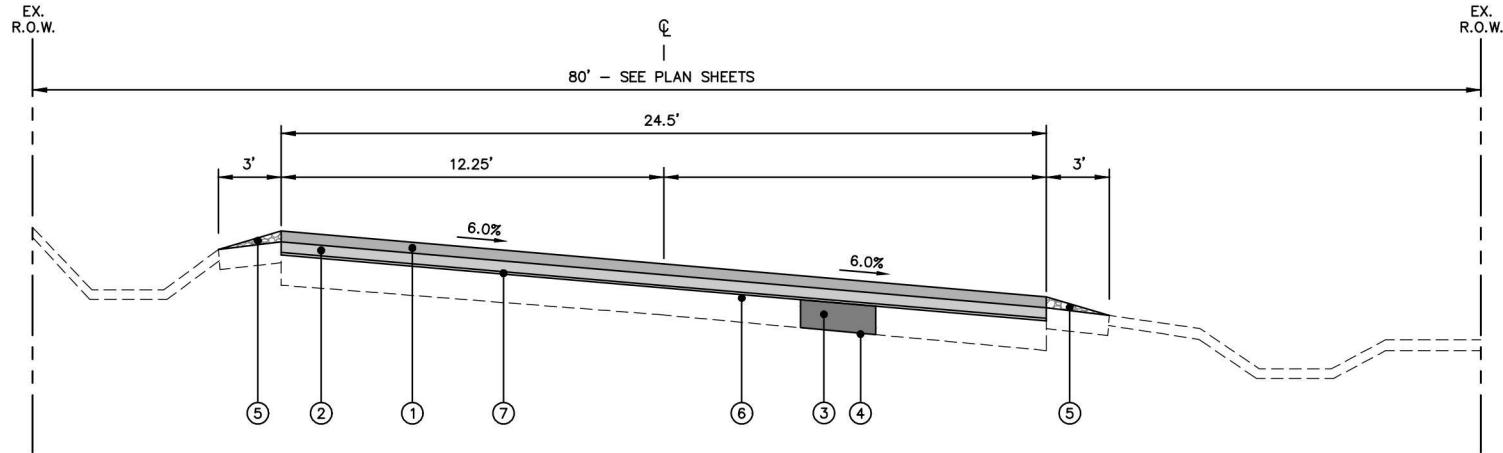
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EXISTING TYPICAL SECTION - WHEELER ROAD

STA 16+14 TO STA 23+02,
STA 43+71 TO STA 48+39

| SUPER ELEVATION TABLE FOR CURVE NO. 1 | | |
|---------------------------------------|-------------------------|--------------------------|
| STATION | LEFT SIDE CROSS SLOPE % | RIGHT SIDE CROSS SLOPE % |
| 16+14 | 2.00 | 2.00 |
| 16+54 | 0.00 | 2.00 |
| 16+94 | -2.00 | 2.00 |
| 17+32.54 | -4.02 | 4.02 |
| 17+72 | -6.00 | 6.00 |
| FULL SUPERELEVATION SECTION | | |
| 21+44 | -6.00 | 6.00 |
| 21+84.03 | -4.02 | 4.02 |
| 22+22 | -2.00 | 2.00 |
| 22+62 | 0.00 | 2.00 |
| 23.02 | 2.00 | 2.00 |



PROPOSED TYPICAL SECTION - WHEELER ROAD

STA 16+14 TO STA 23+02,
STA 43+71 TO STA 48+39

| SUPER ELEVATION TABLE FOR CURVE NO. 3 | | |
|---------------------------------------|-------------------------|--------------------------|
| STATION | LEFT SIDE CROSS SLOPE % | RIGHT SIDE CROSS SLOPE % |
| 43+71 | 2.00 | 2.00 |
| 44+11 | 0.00 | 2.00 |
| 44+51 | -2.00 | 2.00 |
| 44+89.75 | -4.02 | 4.02 |
| 45+29 | -6.00 | 6.00 |
| FULL SUPERELEVATION SECTION | | |
| 46+80 | -6.00 | 6.00 |
| 47+19.61 | -4.02 | 4.02 |
| 47+59 | -2.00 | 2.00 |
| 47+99 | 0.00 | 2.00 |
| 48+39 | 2.00 | 2.00 |

EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT (3.5" - 4.25")
- (B) EXISTING AGGREGATE BASE COURSE (8" - 13")
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING PARKWAY
- (E) PAVEMENT REMOVAL (3.5" - 4.25")
- (F) EARTH EXCAVATION (0" - 0.75")
- (G) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS (LOCATIONS TO BE DETERMINED BY ENGINEER)

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2.0"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5"
- (3) AGGREGATE SUBGRADE IMPROVEMENT (7" - 12") (LOCATIONS TO BE DETERMINED BY ENGINEER)
- (4) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (5) AGGREGATE WEDGE SHOULDER, TYPE B
- (6) PREPARATION OF BASE
- (7) AGGREGATE BASE REPAIR

NOTES:
THE UNDERCUT QUANTITIES HAVE BEEN ESTIMATED BASED ON FIELD OBSERVATIONS DURING DESIGN. ACTUAL QUANTITIES TO BE DETERMINED DURING CONSTRUCTION.

NO PROPOSED WORK WILL TAKE PLACE OUTSIDE OF THE R.O.W.

LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON HMA BINDER COURSE IL-19.0 N50.

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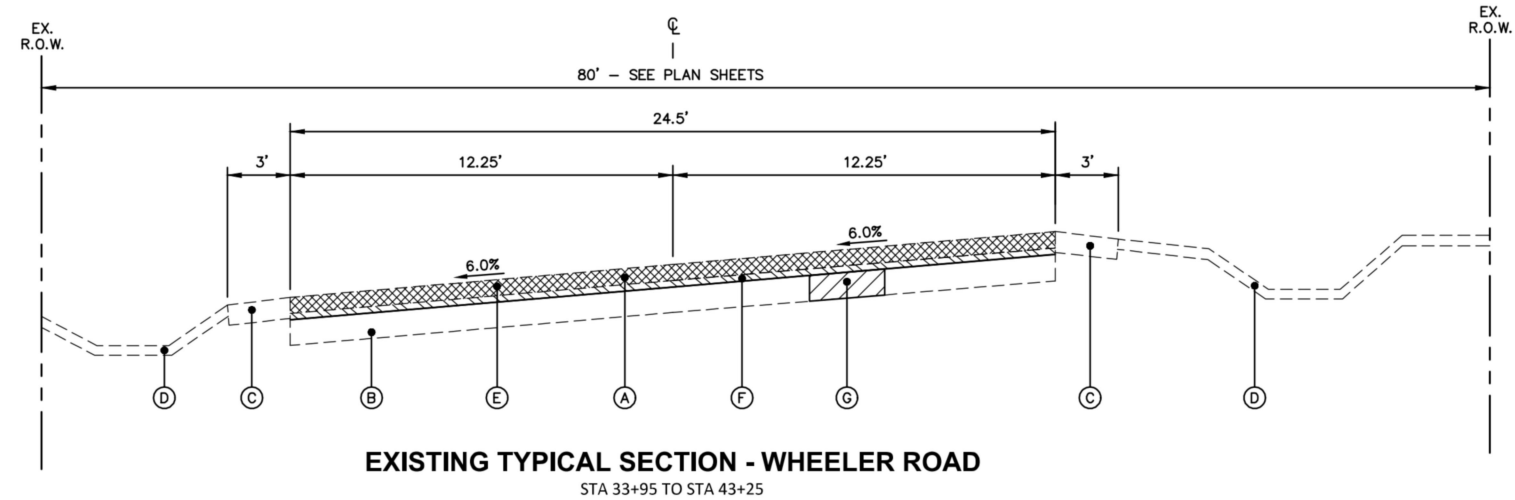
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|------------------------------------|------------|-----------|
| USER NAME = Kris Pung | DESIGNED - | REVISED - |
| PLOT SCALE = | DRAWN - | REVISED - |
| PLOT DATE = May 12, 2025 @ 2:06 PM | CHECKED - | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

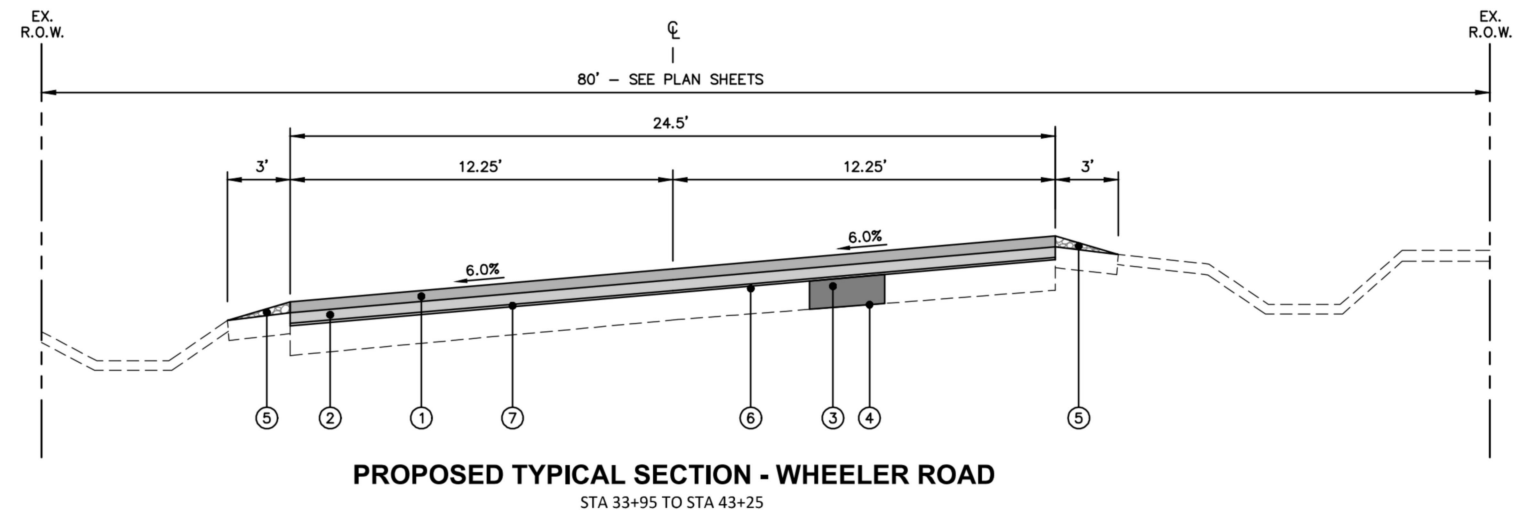
SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. N/A TO STA. N/A

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 6 |
| | | CONTRACT NO. 6IL67 | | |
| ILLINOIS FED. AID PROJECT | | | | |



EXISTING TYPICAL SECTION - WHEELER ROAD








STA 33+95 TO STA 43+25



STA 33+95 TO STA 43+25

EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT (3.5" - 4.25")
- (B) EXISTING AGGREGATE BASE COURSE (8" - 13")
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING PARKWAY
- (E) PAVEMENT REMOVAL (3.5" - 4.25")
- (F) EARTH EXCAVATION (0" - 0.75")
- (G) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
(LOCATIONS TO BE DETERMINED BY ENGINEER)

| PROPOSED LEGEND | |
|---|---|
|  | ① HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2.0" |
|  | ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5" |
|  | ③ AGGREGATE SUBGRADE IMPROVEMENT (7" - 12") (LOCATIONS TO BE DETERMINED BY ENGINEER) |
|  | ④ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION |
|  | ⑤ AGGREGATE WEDGE SHOULDER, TYPE B |
|  | ⑥ PREPARATION OF BASE |
|  | ⑦ AGGREGATE BASE REPAIR |

NOTES:
THE UNDERCUT QUANTITIES HAVE BEEN ESTIMATED BASED ON FIELD
OBSERVATIONS DURING DESIGN. ACTUAL QUANTITIES TO BE DETERMINED
DURING CONSTRUCTION.

NO PROPOSED WORK WILL TAKE PLACE OUTSIDE OF THE R.O.W.

LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON HMA BINDER COURSE
IL-19.0 N50.

FILE NAME = H:\SDS\PROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-COVER
Plotted: May 12, 2025 @ 2:06 PM By: Kris Pung - Model Name: 08 Sign Schedule - 22x34

| Wheeler Road | | | | | | | |
|------------------|--------|-----------------|------------------------|----------------------------------|--------------------------------------|-------------------|---|
| Signing Schedule | | | | | | | |
| | | | 72000100 | 72400310 | 72800100 | | |
| Station | O/S | Sign Dimensions | SIGN PANEL - TYPE 1 | REMOVE SIGN PANEL - TYPE 1 | TELESCOPING STEEL SIGN SUPPORT | MUTCD Designation | Description |
| | | | (Sq Ft) | (Sq Ft) | (Ft) | | |
| 15+75 | 25' RT | 18"x18" | 2.25 | 2.25 | | W13-1P | Advisory Speed Plaque (35 MPH) on existing post |
| 23+25 | 25' LT | 18"x18" | 2.25 | 2.25 | | W13-1P | Advisory Speed Plaque (35 MPH) on existing post |
| 33+75 | 25' RT | 18"x18" | 2.25 | 2.25 | | W13-1P | Advisory Speed Plaque (35 MPH) on existing post |
| 37+00 | 25' RT | 12"x36" | 3 | 3 | 16 | OM-3R | Object Terminal Marker on new post |
| 37+00 | 25' LT | 12"x36" | 3 | 3 | 16 | OM-3L | Object Terminal Marker on new post |
| 37+25 | 25' RT | 12"x36" | 3 | 3 | 16 | OM-3R | Object Terminal Marker on new post |
| 37+25 | 25' LT | 12"x36" | 3 | 3 | 16 | OM-3L | Object Terminal Marker on new post |
| 43+25 | 25' RT | 18"x18" | 2.25 | 2.25 | | W13-1P | Advisory Speed Plaque (35 MPH) on existing post |
| 43+75 | 25' LT | 30"x30" | 6.25 | | 16 | W1-2 | New Curve sign on new post |
| 43+75 | 25' LT | 18"x18" | 2.25 | | | W13-1P | Advisory Speed Plaque (35 MPH) on new post |
| 48+50 | 25' LT | 18"x18" | 2.25 | 2.25 | | W13-1P | Advisory Speed Plaque (35 MPH) on existing post |
| 50+00 | 25' RT | 24"x30" | 5 | | 16 | R2-1 | New Speed Limit (45 MPH) on new post |
| | | Total: | 36.75 | 23.25 | 96 | | |



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CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
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| | | |
|------------------------------------|------------|-----------|
| USER NAME = Kris Pung | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = May 12, 2025 @ 2:06 PM | DATE - | REVISED - |

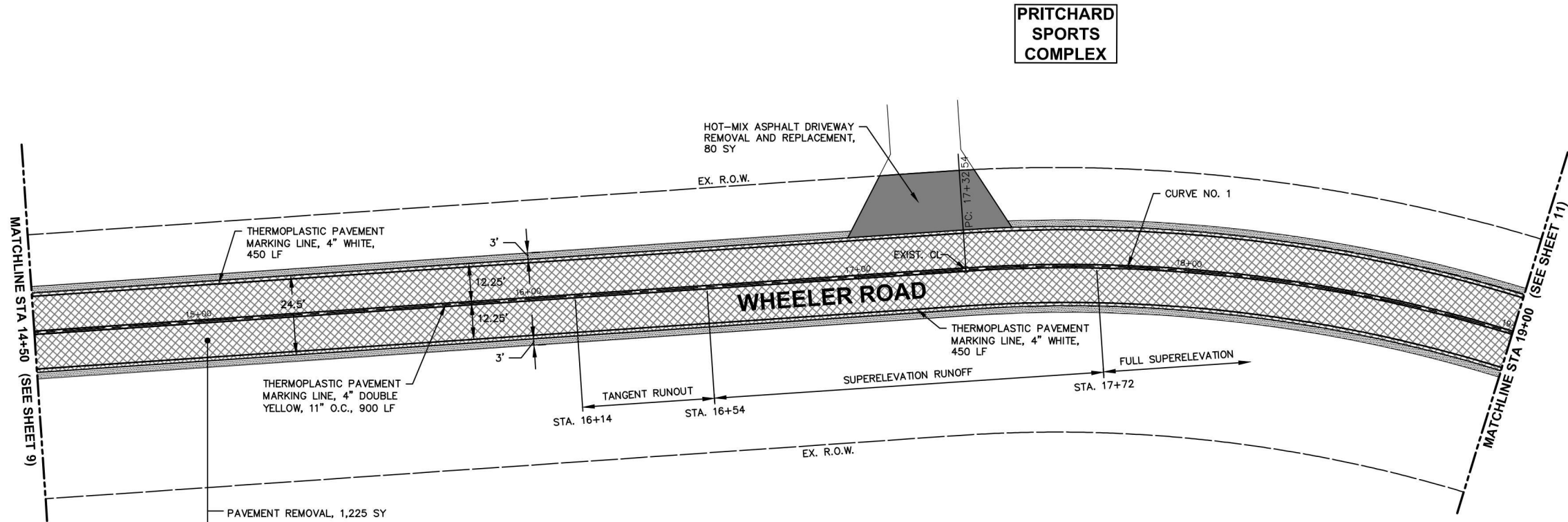
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING SCHEDULE

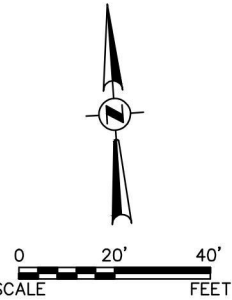
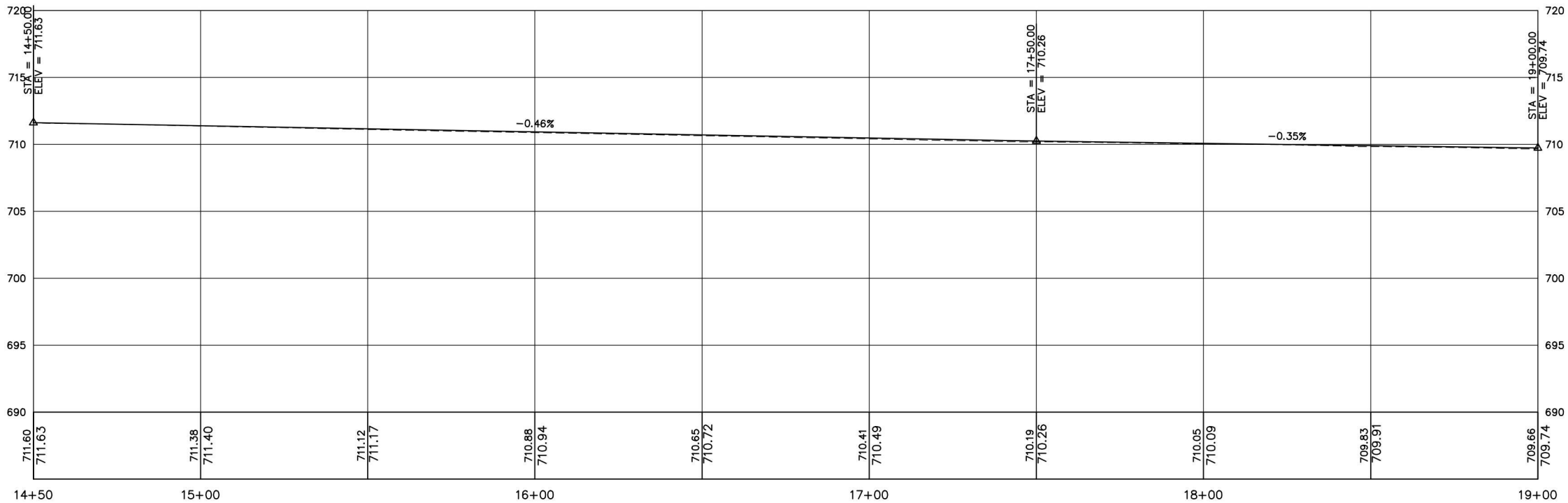
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 8 |
| CONTRACT NO. 6IL67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FILE NAME = H:\SDS\PROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-PLAN
Plotted: May 12, 2025 @ 2:06 PM By: Kris Pung - Model Name: 10 Wheeler



- PAVEMENT REMOVAL, 1,225 SY
- PREPARATION OF BASE, 1,225 SY
- HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5", 172 TONS
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2.0", 137 TONS
- AGGREGATE WEDGE SHOULDER, TYPE B, 30 TONS



CURVE NO. 1
PI STA. = 19+78.52
 Δ = 56.4814
D = 12.51
R = 458'
T = 246.00'
L = 451.49'
E = 61.88'
e = 6.0% (EX)
T.R. = 40'
S.E. RUN = 118'
P.C. STA. = 17+32.54
P.T. STA. = 21+84.03

LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- AGGREGATE WEDGE SHOULDER, TYPE B, 0" TO 3"

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

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Sugar Grove, Illinois 60554
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| | | | | | |
|------------|--------------------------|----------|---|---------|---|
| USER NAME | = Kris Pung | DESIGNED | - | REVISED | - |
| | | DRAWN | - | REVISED | - |
| PLOT SCALE | = | CHECKED | - | REVISED | - |
| PLOT DATE | = May 12, 2025 @ 2:06 PM | DATE | - | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

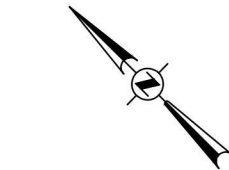
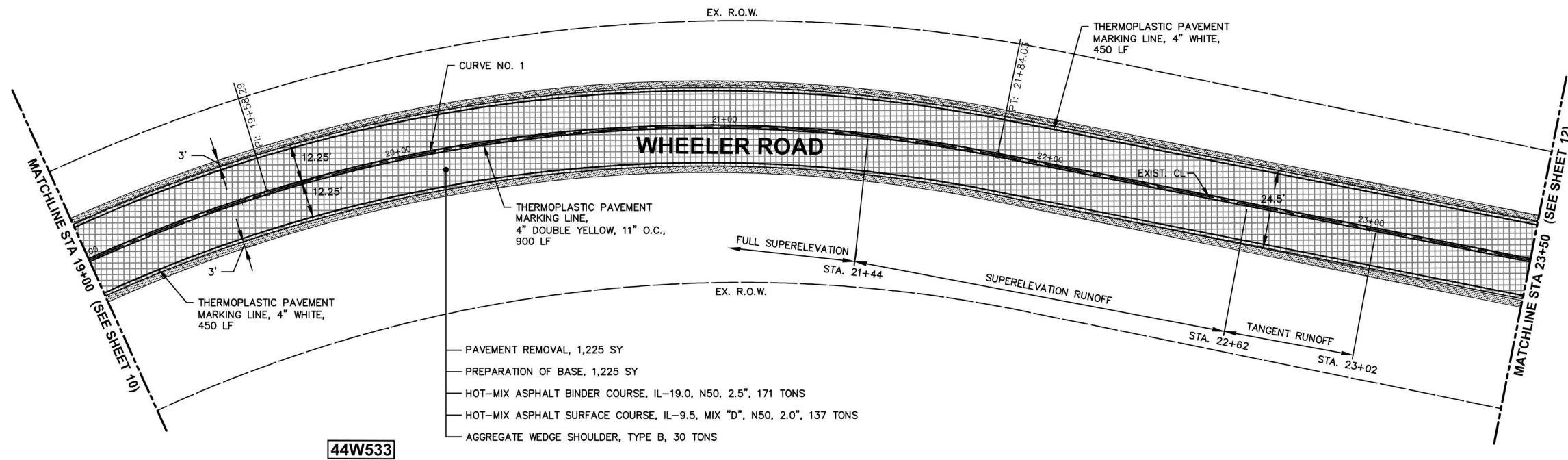
WHEELER ROAD IMPROVEMENT PLAN

SCALE: 1"=20' SHEET 2 OF 11 SHEETS STA. 14+50 TO STA. 19+00

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 10 |
| | | CONTRACT NO. 6IL67 | | |
| ILLINOIS FED. AID PROJECT | | | | |

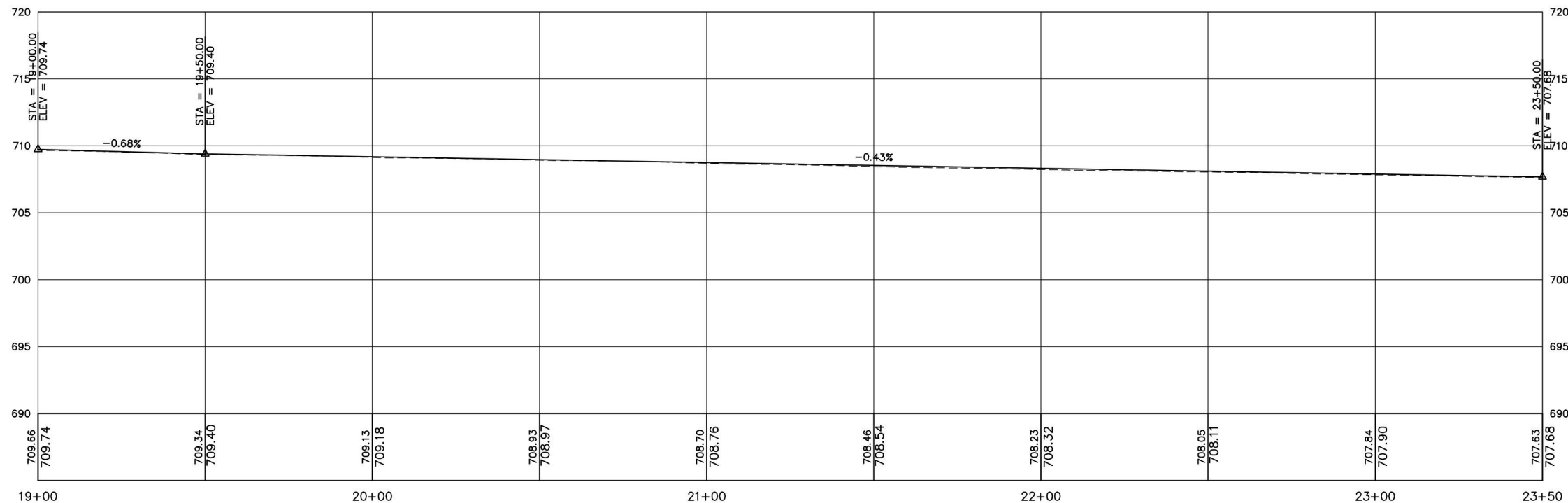
Plotted: May 12, 2025 @ 2:06 PM By: Kris Pung - Model Name: 11 Wheeler

FILE NAME = H:\SSK\PROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-PLAN



0 20' 40'
SCALE FEET

CURVE NO. 1
PI STA. = 19+78.52
Δ = 56.4814
D = 12.51
R = 458'
T = 246.00'
L = 451.49'
E = 61.88'
e = 6.0% (EX)
T.R. = 40'
S.E. RUN = 118'
P.C. STA. = 17+32.54
P.T. STA. = 21+84.03



LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- AGGREGATE WEDGE SHOULDER, TYPE B, 0" TO 3"

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

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| | | |
|------------------------------------|------------|-----------|
| USER NAME = Kris Pung | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = May 12, 2025 @ 2:06 PM | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

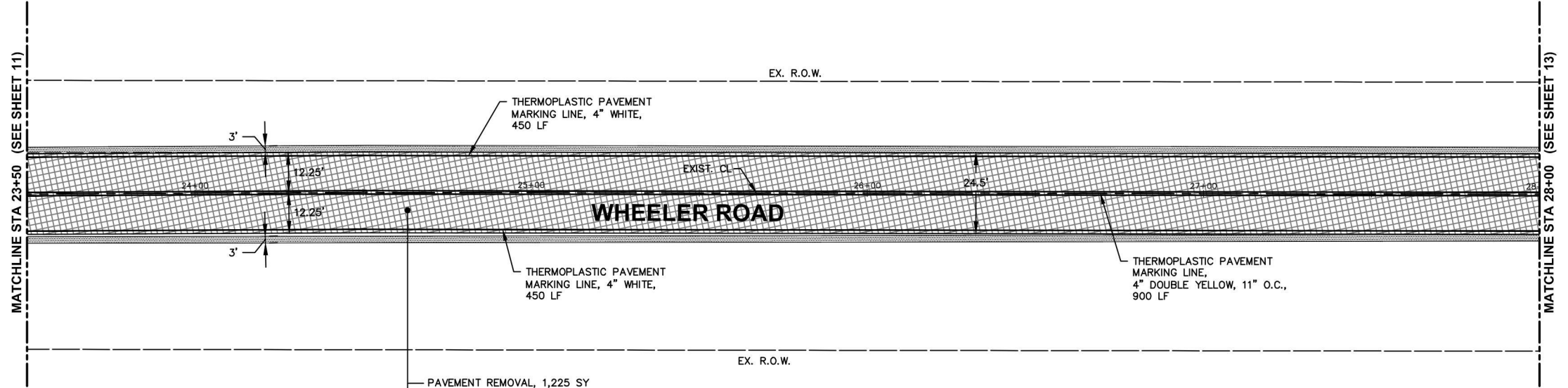
WHEELER ROAD IMPROVEMENT PLAN

SCALE: 1"=20' SHEET 3 OF 11 SHEETS STA. 19+00 TO STA. 23+50

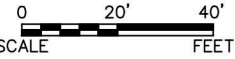
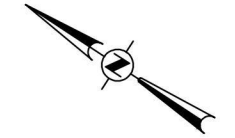
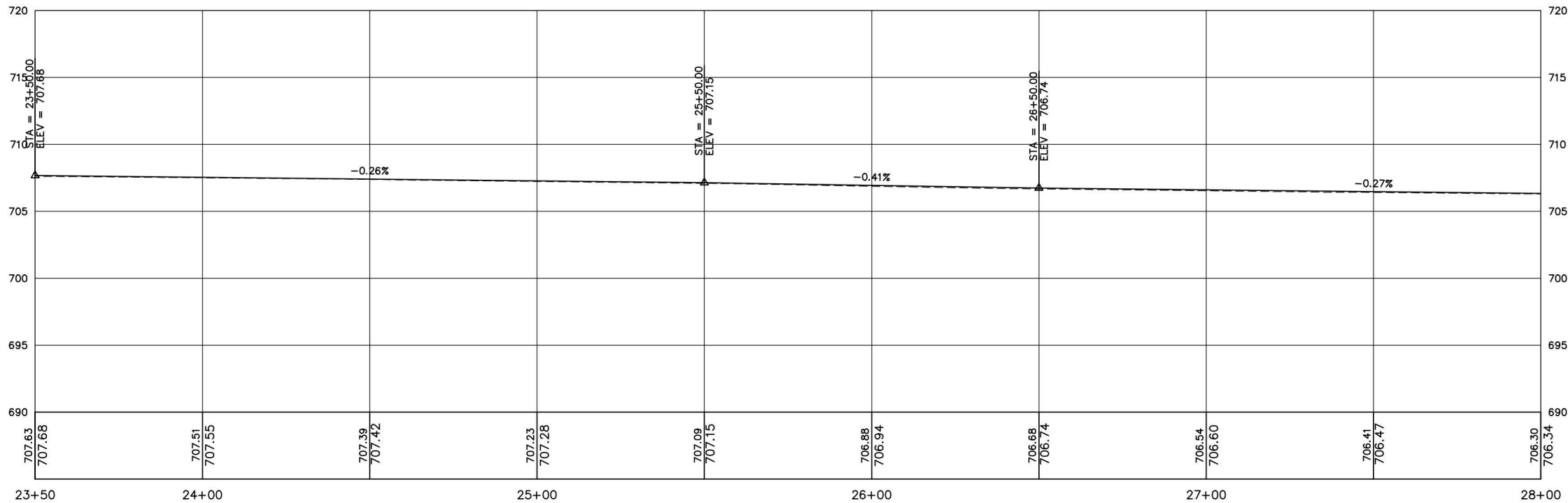
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 11 |
| | | CONTRACT NO. 61L67 | | |
| ILLINOIS FED. AID PROJECT | | | | |

Plotted: May 12, 2025 @ 2:06 PM By: Kris Pung - Model Name: 12 Wheeler

FILE NAME = H:\SDSKPROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-PLAN



- PAVEMENT REMOVAL, 1,225 SY
- PREPARATION OF BASE, 1,225 SY
- HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5", 172 TONS
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2.0", 137 TONS
- AGGREGATE WEDGE SHOULDER, TYPE B, 30 TONS



LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- AGGREGATE WEDGE SHOULDER, TYPE B, 0" TO 3"

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'



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| | | | | | |
|------------|--------------------------|----------|---|---------|---|
| USER NAME | = Kris Pung | DESIGNED | - | REVISED | - |
| | | DRAWN | - | REVISED | - |
| PLOT SCALE | = | CHECKED | - | REVISED | - |
| PLOT DATE | = May 12, 2025 @ 2:06 PM | DATE | - | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

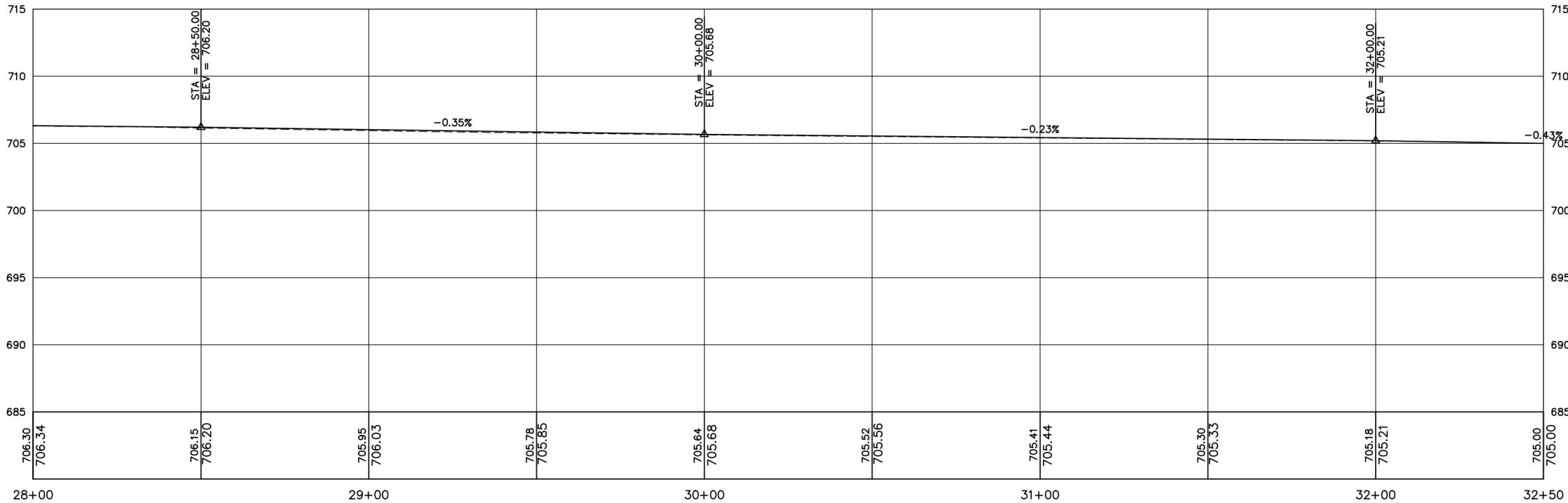
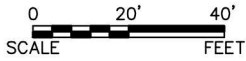
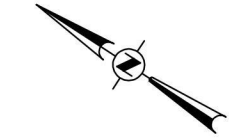
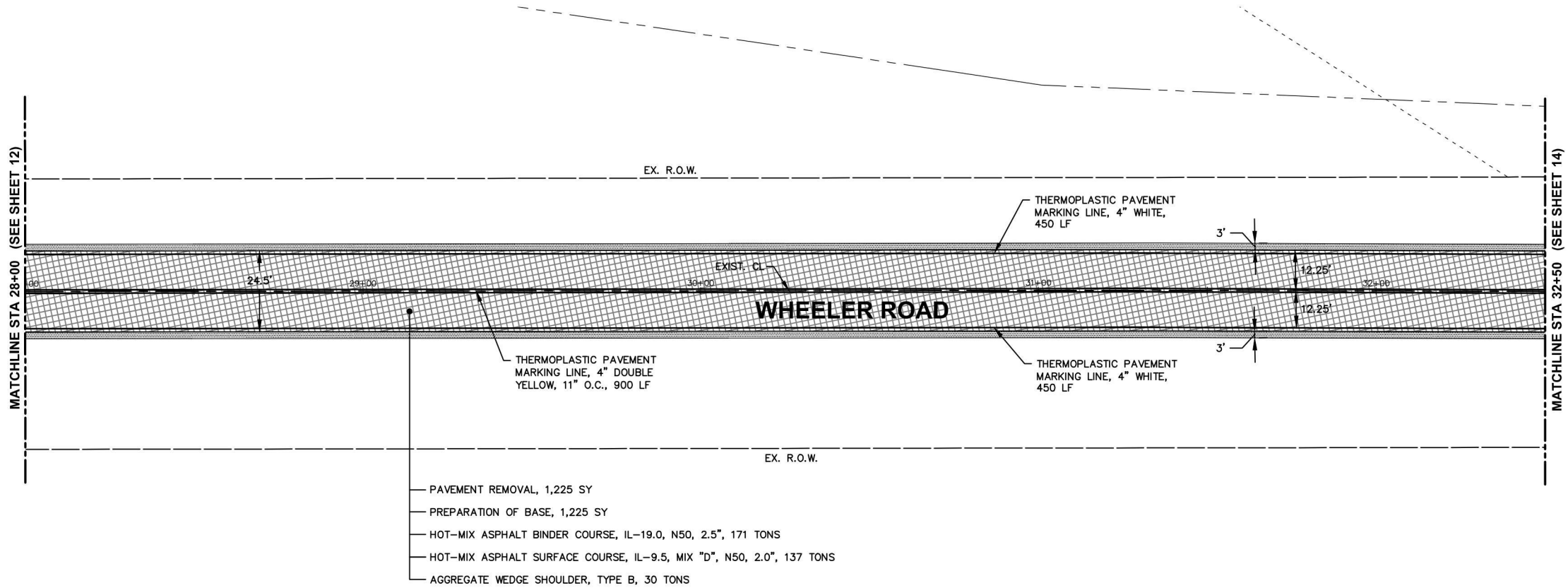
WHEELER ROAD IMPROVEMENT PLAN

SCALE: 1"=20' SHEET 4 OF 11 SHEETS STA. 23+50 TO STA. 28+00

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 12 |
| | | CONTRACT NO. 6IL67 | | |
| ILLINOIS FED. AID PROJECT | | | | |

Plotted: May 12, 2025 @ 2:06 PM By: Kris Pung - Model Name: 13 Wheeler

FILE NAME = H:\SSKPROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-PLAN



LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- AGGREGATE WEDGE SHOULDER, TYPE B, 0" TO 3"

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

| | | | | | |
|------------|--------------------------|----------|---|---------|---|
| USER NAME | = Kris Pung | DESIGNED | - | REVISED | - |
| | | DRAWN | - | REVISED | - |
| PLOT SCALE | = | CHECKED | - | REVISED | - |
| PLOT DATE | = May 12, 2025 @ 2:06 PM | DATE | - | REVISED | - |

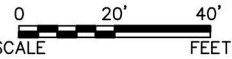
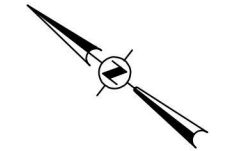
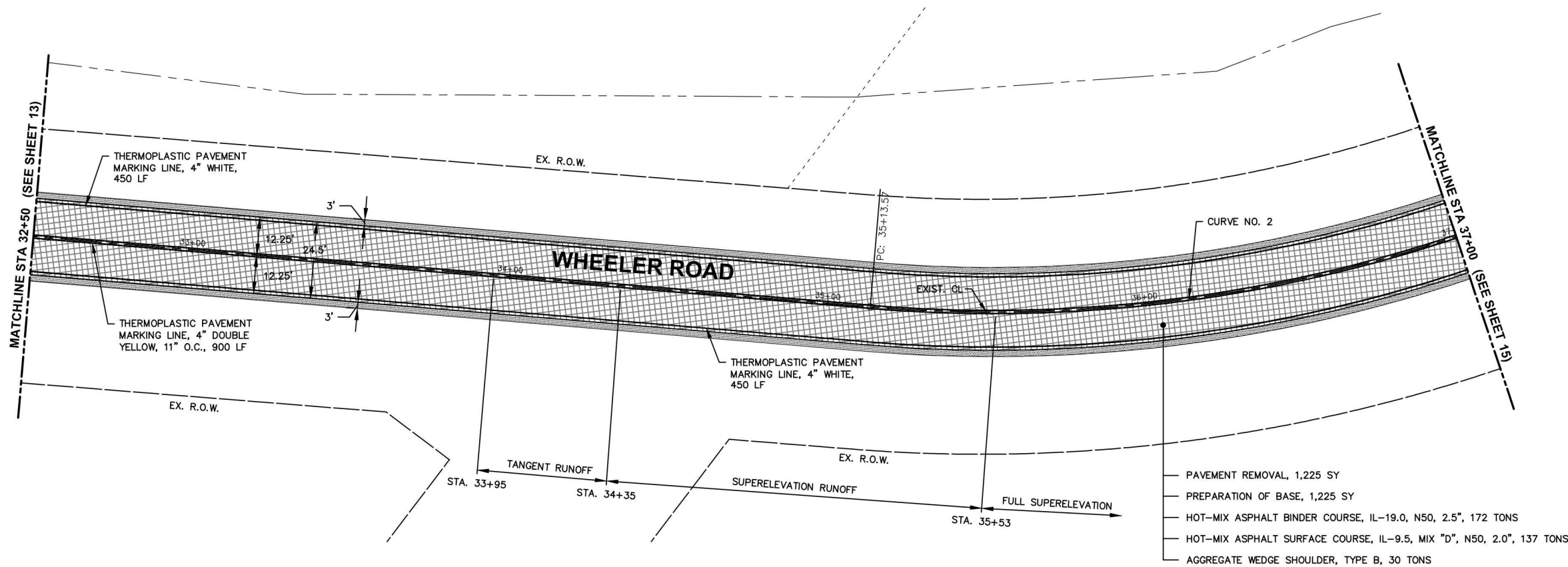
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WHEELER ROAD
IMPROVEMENT PLAN

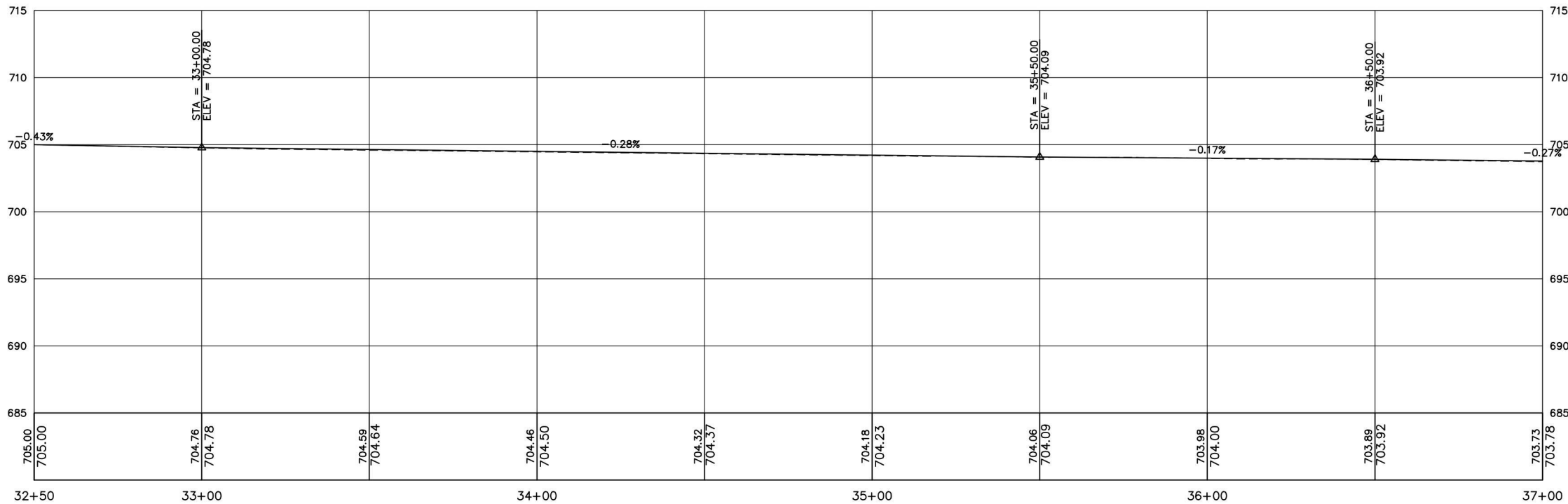
SCALE: 1"=20' SHEET 5 OF 11 SHEETS STA. 28+00 TO STA. 32+50

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 13 |
| | | CONTRACT NO. 6IL67 | | |
| ILLINOIS FED. AID PROJECT | | | | |

FILE NAME = H:\SDSKPROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-PLAN
Plotted: May 12, 2025 @ 2:07 PM By: Kris Pung - Model Name: 14 Wheeler



CURVE NO. 2
PI STA. = 39+46.11
 Δ = 86.7258
D = 12.51
R = 458'
T = 432.55'
L = 693.25'
E = 171.97'
e = 6.0% (EX)
T.R. = 40'
S.E. RUN = 118'
P.C. STA. = 35+13.57
P.T. STA. = 42+06.82



LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- AGGREGATE WEDGE SHOULDER, TYPE B, 0" TO 3"

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

| | | |
|------------------------------------|------------|-----------|
| USER NAME = Kris Pung | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = May 12, 2025 @ 2:07 PM | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

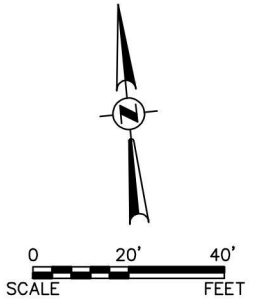
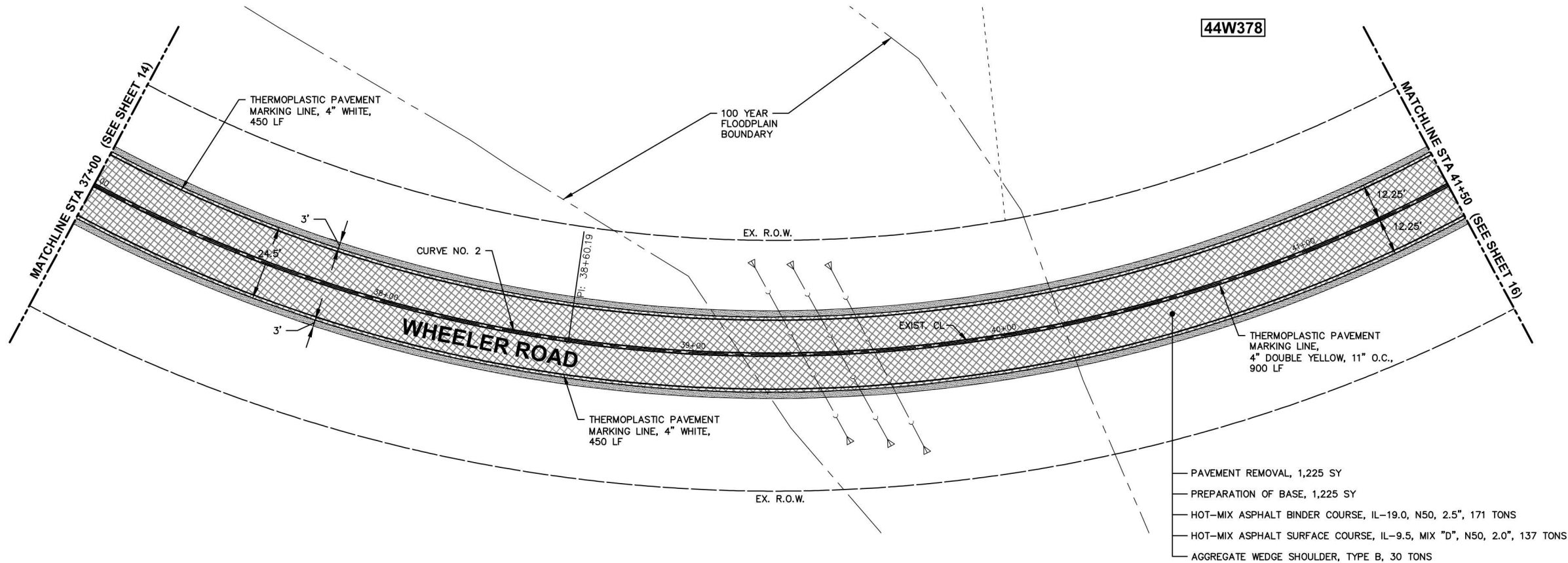
WHEELER ROAD IMPROVEMENT PLAN

SCALE: 1"=20' SHEET 6 OF 11 SHEETS STA. 32+50 TO STA. 37+00

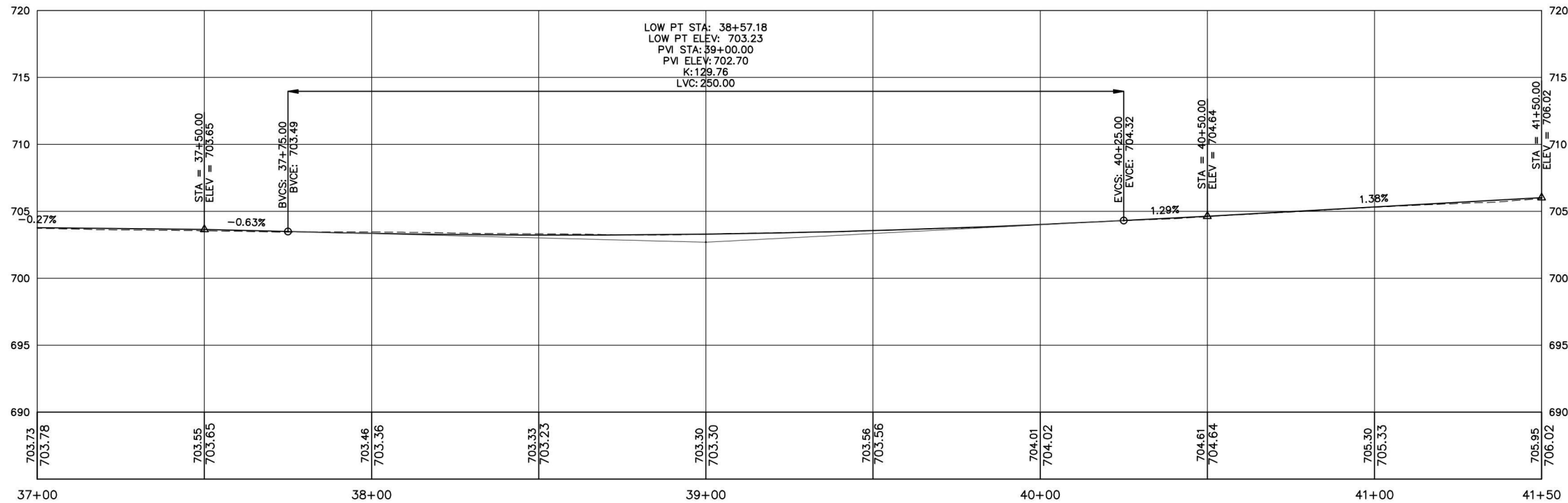
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|----------------|--------------------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 14 |
| | | CONTRACT NO. 6IL67 | | |
| ILLINOIS | | FED. AID PROJECT | | |

Plotted: May 12, 2025 @ 2:07 PM By: Kris Pung - Model Name: 15 Wheeler

FILE NAME = H:\SDSKPROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-PLAN



CURVE NO. 2
PI STA. = 39+46.11
 Δ = 86.7258
D = 12.51
R = 458'
T = 432.55'
L = 693.25'
E = 171.97'
e = 6.0% (EX)
T.R. = 40'
S.E. = 118'
P.C. STA. = 35+13.57
P.T. STA. = 42+06.82



LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- AGGREGATE WEDGE SHOULDER, TYPE B, 0" TO 3"

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
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Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

| | | |
|------------------------------------|------------|-----------|
| USER NAME = Kris Pung | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = May 12, 2025 @ 2:07 PM | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

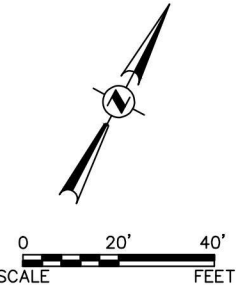
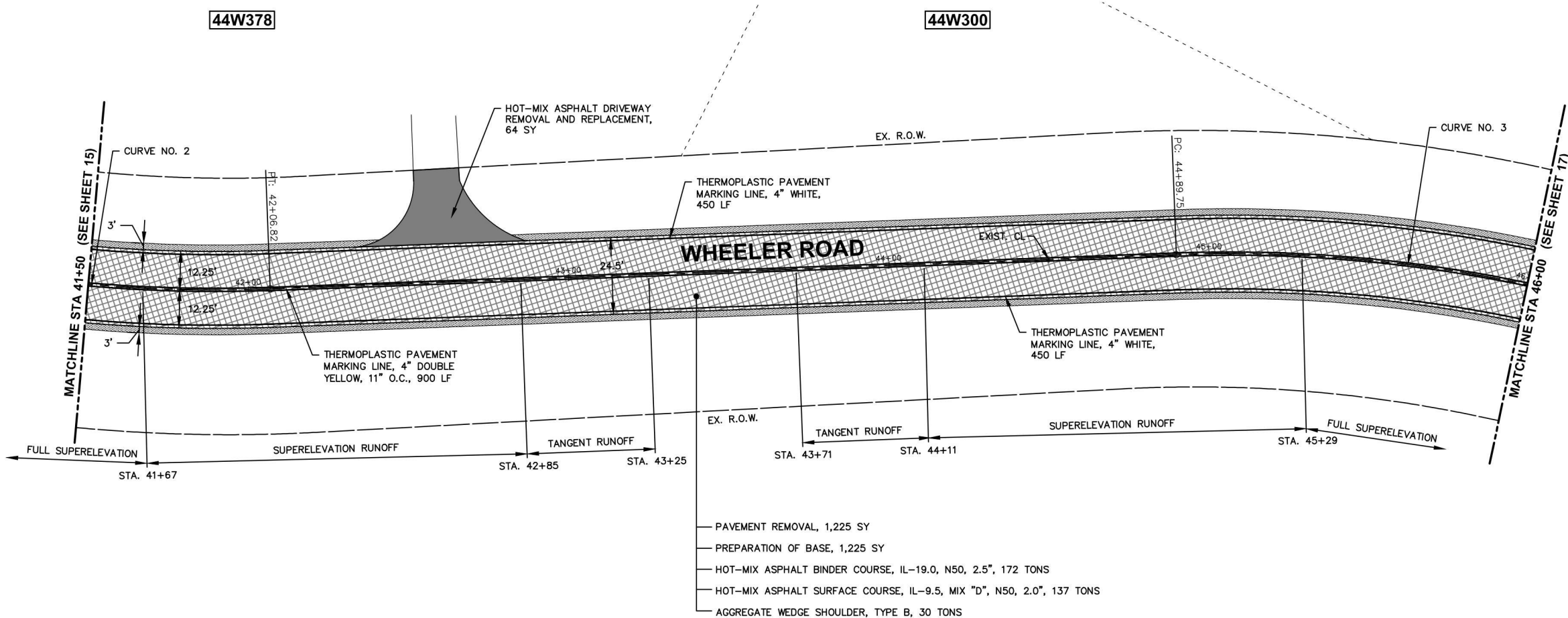
WHEELER ROAD
IMPROVEMENT PLAN

SCALE: 1"=20' SHEET 7 OF 11 SHEETS STA. 37+00 TO STA. 41+50

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|---------------------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 15 |
| CONTRACT NO. 6IL67 | | | | ILLINOIS FED. AID PROJECT |

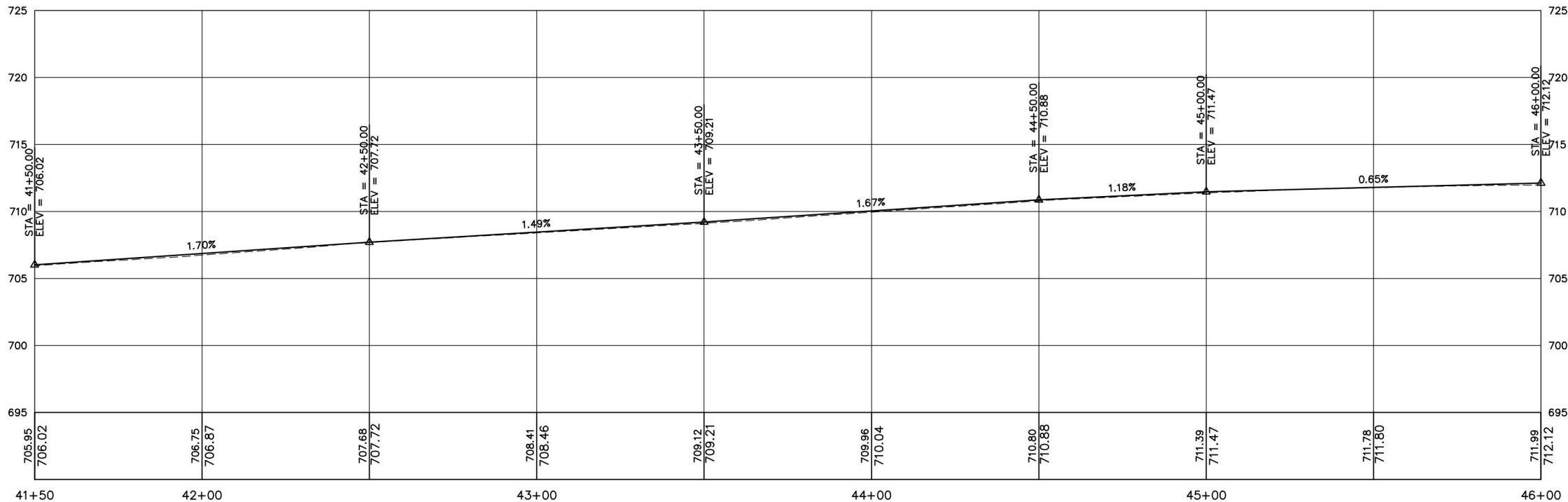
Plotted: May 12, 2025 @ 2:07 PM By: Kris Pung - Model Name: 16 Wheeler

FILE NAME = H:\SDSKPROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-PLAN



CURVE NO. 2
PI STA. = 39+46.11
 Δ = 86.7258
D = 12.51
R = 458'
T = 432.55'
L = 693.25'
E = 171.97'
e = 6.0% (EX)
T.R. = 40'
S.E. RUN = 118'
P.C. STA. = 35+13.57
P.T. STA. = 42+06.82

CURVE NO. 3
PI STA. = 46+07.25
 Δ = 29.2662
D = 12.73
R = 450'
T = 117.49'
L = 229.86'
E = 15.09'
e = 6.0% (EX)
T.R. = 40'
S.E. RUN = 118'
P.C. STA. = 44+89.75
P.T. STA. = 47+19.61



LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- AGGREGATE WEDGE SHOULDER, TYPE B, 0" TO 3"

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME = Kris Pung
PLOT SCALE =
PLOT DATE = May 12, 2025 @ 2:07 PM

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

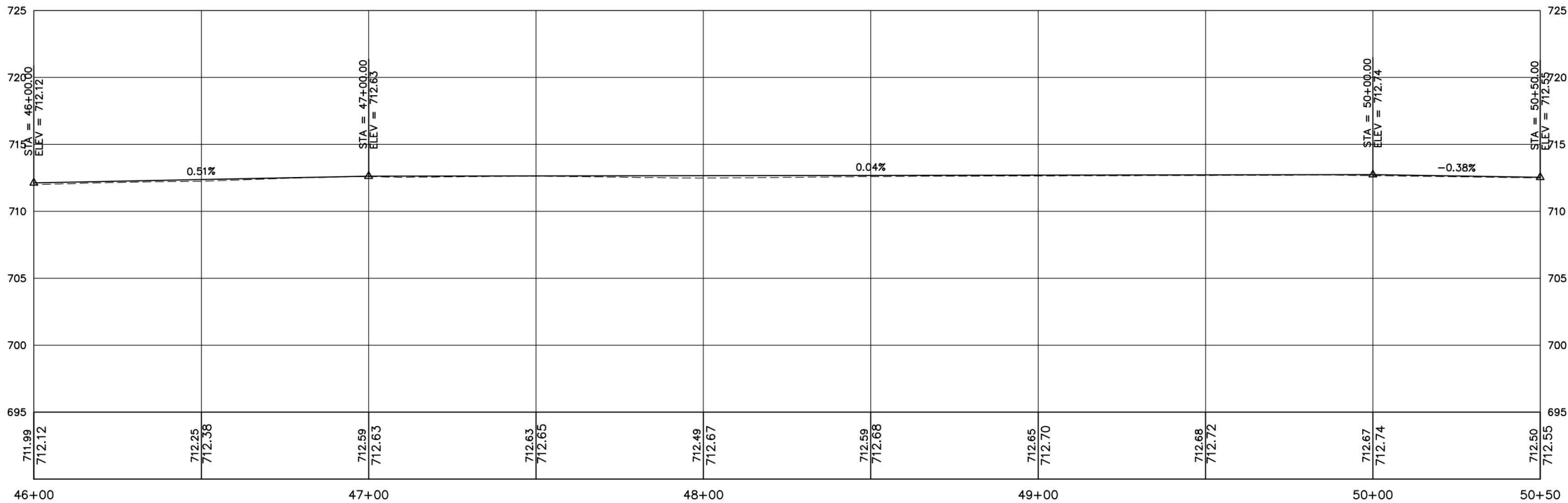
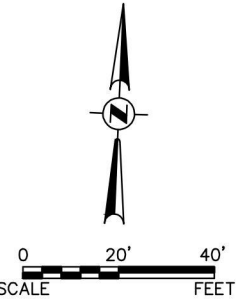
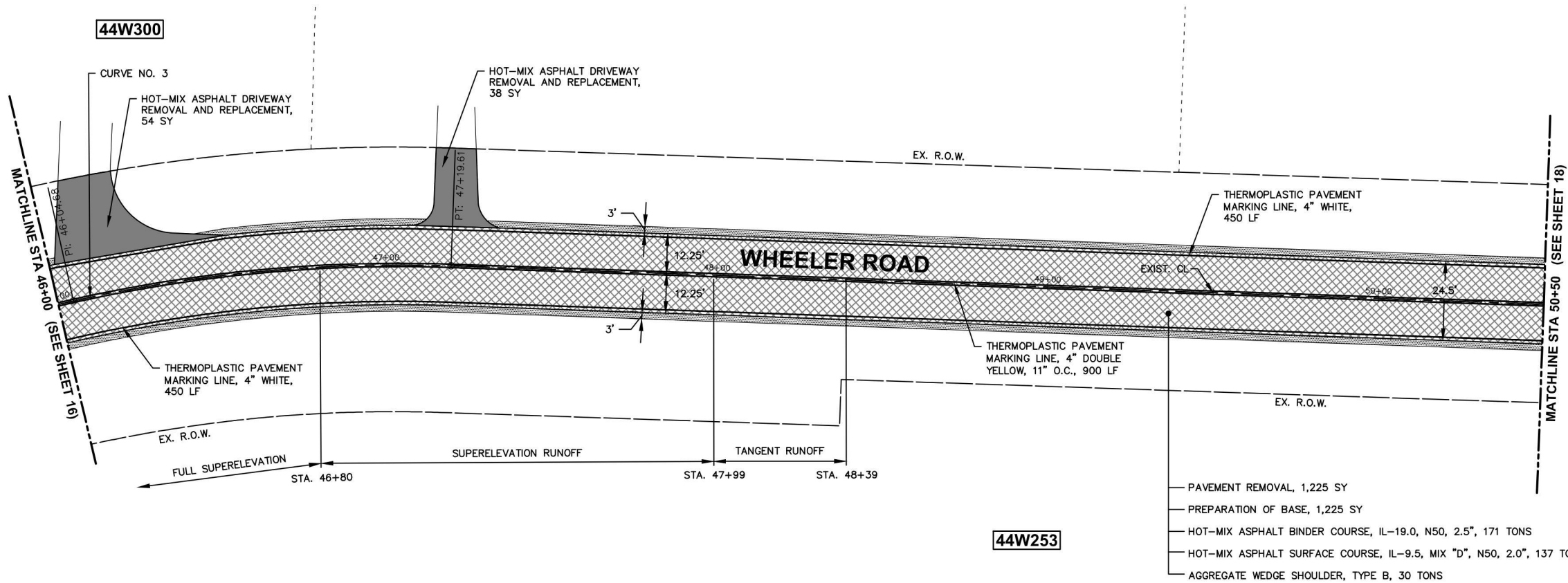
WHEELER ROAD IMPROVEMENT PLAN

SCALE: 1"=20' SHEET 8 OF 11 SHEETS STA. 41+50 TO STA. 46+00

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|---------------------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 16 |
| CONTRACT NO. 6IL67 | | | | ILLINOIS FED. AID PROJECT |

Plotted: May 12, 2025 @ 2:07 PM By: Kris Pung - Model Name: 17 Wheeler

FILE NAME = H:\SSKPROJ\SG_SUGAR GROVE\2024\562409\DWG FINAL ENG\562409-PLAN



LEGEND

- PAVEMENT REMOVAL
HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
AGGREGATE WEDGE SHOULDER, TYPE B, 0" TO 3"

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME = Kris Pung
PLOT SCALE =
PLOT DATE = May 12, 2025 @ 2:07 PM

DESIGNED -
DRAWN -
CHECKED -
DATE -
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

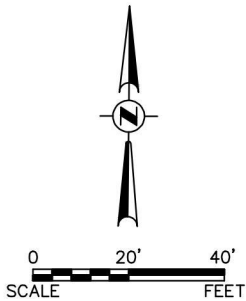
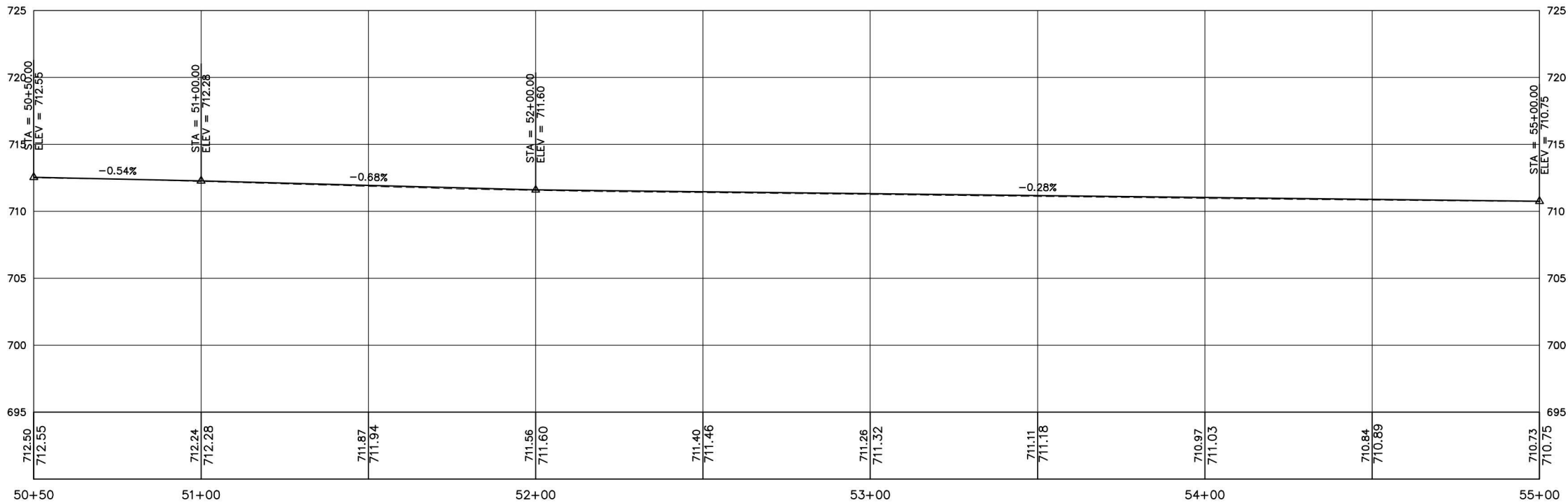
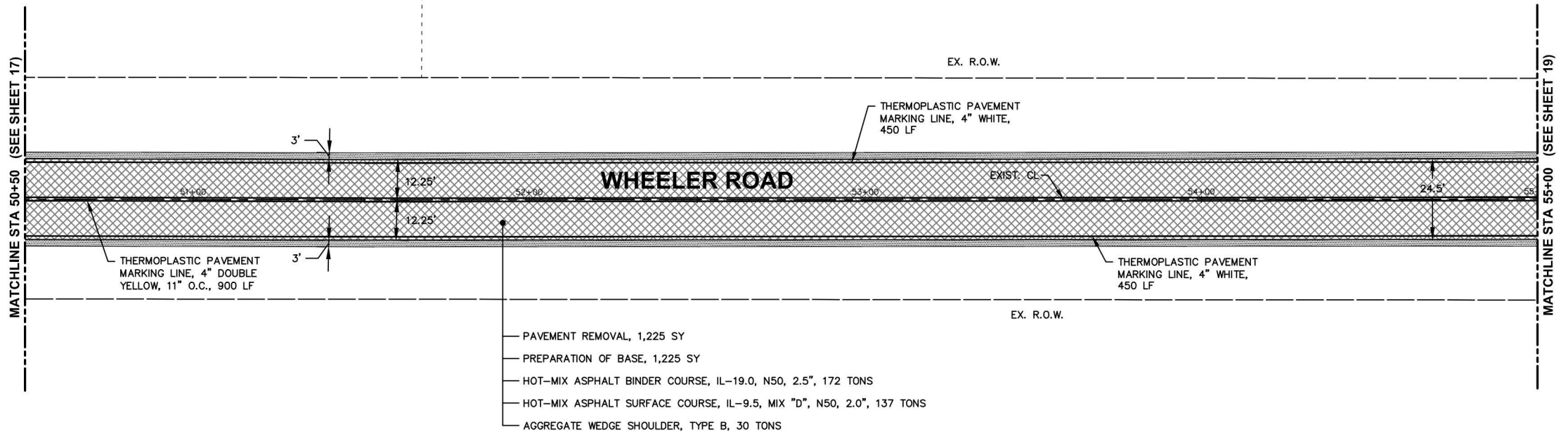
**WHEELER ROAD
IMPROVEMENT PLAN**

SCALE: 1"=20' SHEET 9 OF 11 SHEETS STA. 46+00 TO STA. 50+50

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 17 |
| | | CONTRACT NO. 6IL67 | | |
| ILLINOIS FED. AID PROJECT | | | | |

Plotted: May 12, 2025 @ 2:07 PM By: Kris Pung - Model Name: 18 Wheeler

FILE NAME = H:\SDSKPROJ\SG_SUGAR GROVE\2024\SG2409\DWG FINAL ENG\SG2409-PLAN



LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
- AGGREGATE WEDGE SHOULDER, TYPE B, 0" TO 3"

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
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USER NAME = Kris Pung
PLOT SCALE =
PLOT DATE = May 12, 2025 @ 2:07 PM

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

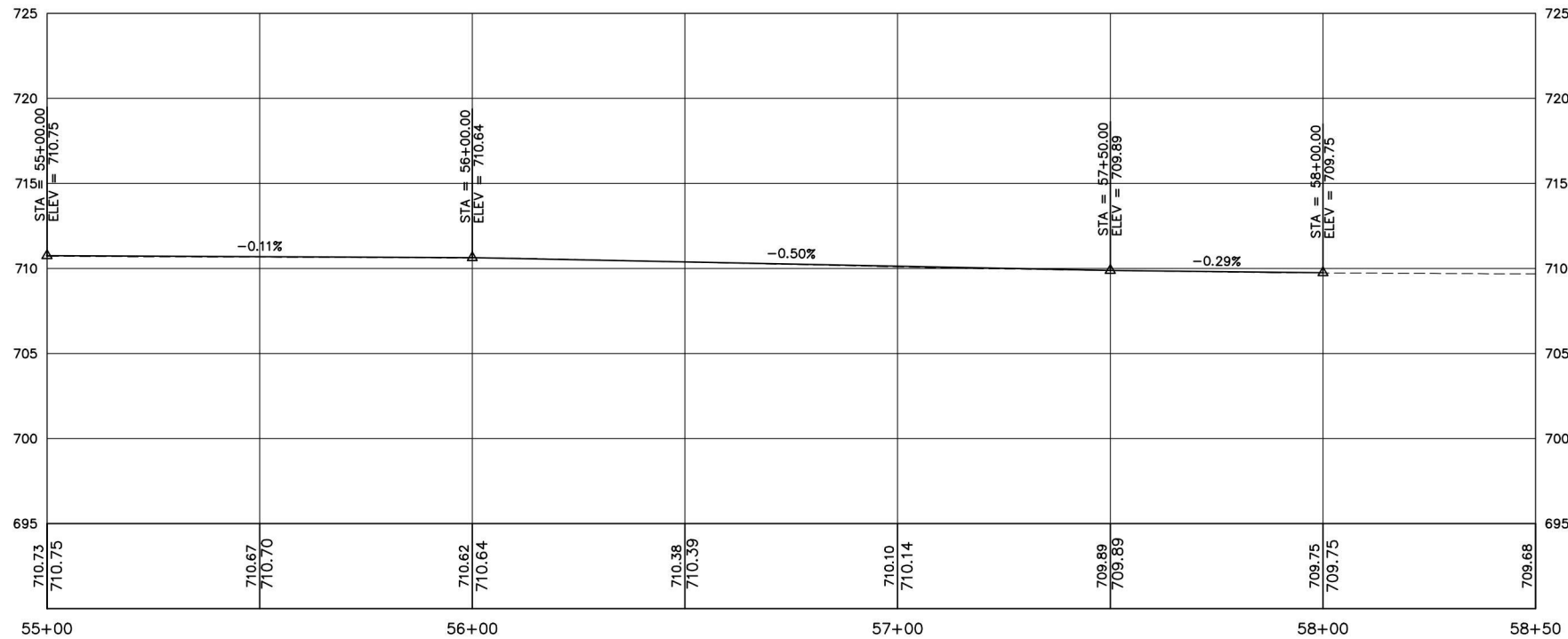
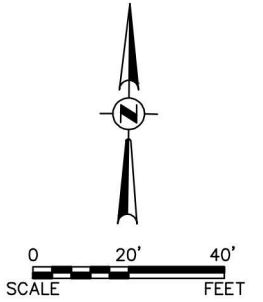
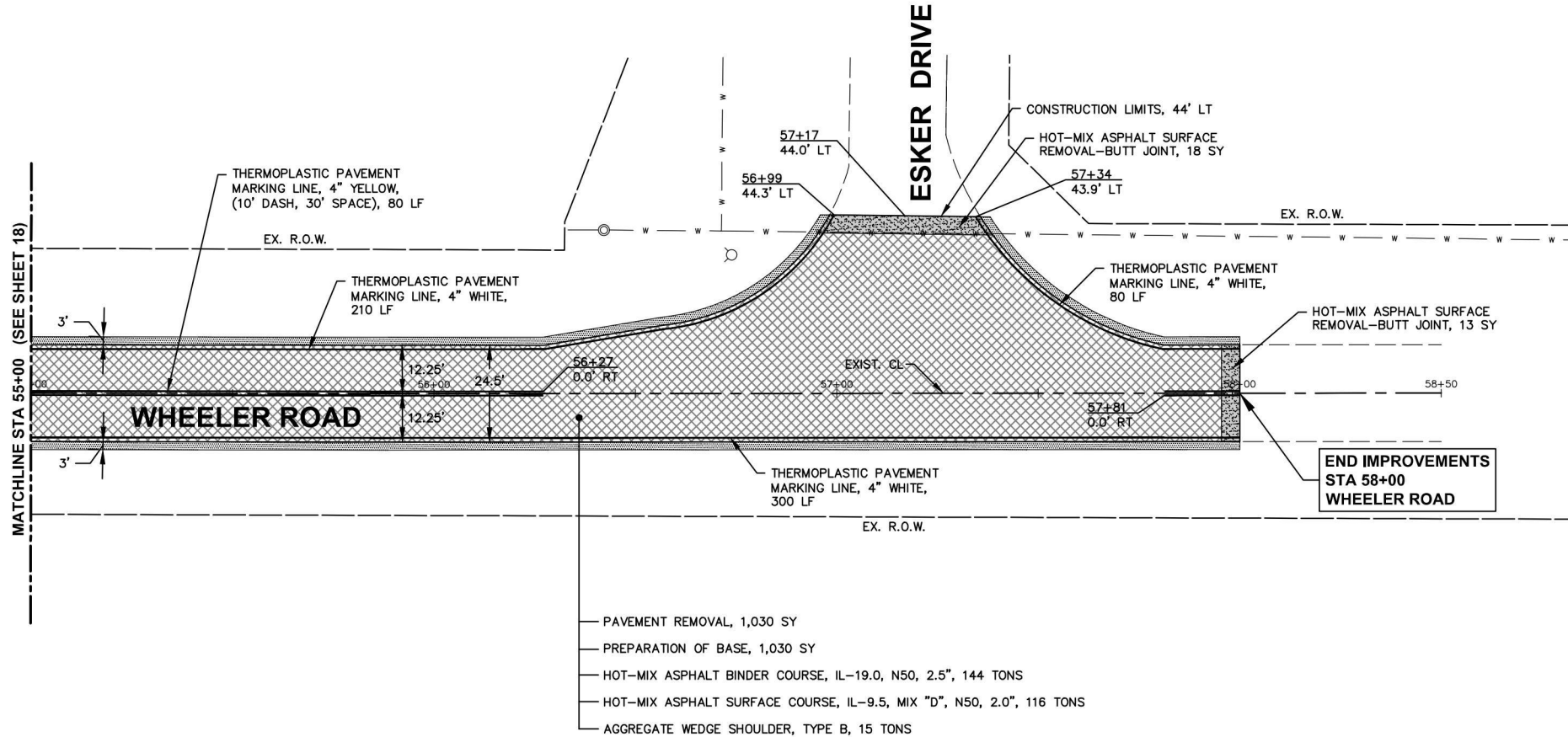
WHEELER ROAD
IMPROVEMENT PLAN

SCALE: 1"=20' SHEET 10 OF 11 SHEETS STA. 50+50 TO STA. 55+00

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 2305 | 24-00036-00-FP | KANE | 23 | 18 |
| CONTRACT NO. | | | 6IL67 | |
| ILLINOIS FED. AID PROJECT | | | | |

Plotted: May 12, 2025 @ 2:07 PM By: Kris Pung - Model Name: 19 Wheeler

FILE NAME = H:\SDS\PROJ\SG_SUGAR GROVE\2024\562409\DWG FINAL ENG\562409-PLAN



| LEGEND | |
|--------|--|
| | PAVEMENT REMOVAL |
| | HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT |
| | HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT |
| | AGGREGATE WEDGE SHOULDER, TYPE B, 0' TO 3' |

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

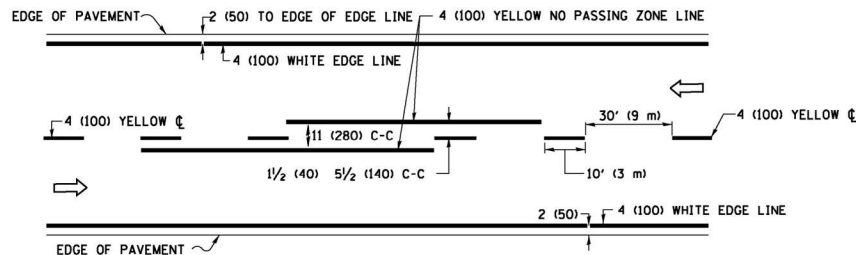
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

| | | |
|------------------------------------|------------|-----------|
| USER NAME = Kris Pung | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = May 12, 2025 @ 2:07 PM | DATE - | REVISED - |

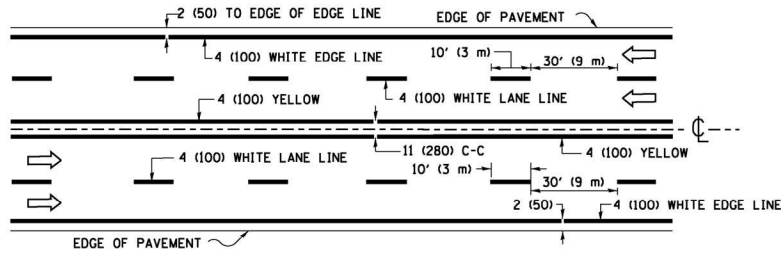
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| WHEELER ROAD IMPROVEMENT PLAN | | | |
|-------------------------------|----------|--------------|--------------------------|
| SCALE: 1"=20' | SHEET 11 | OF 11 SHEETS | STA. 55+00 TO STA. 58+00 |

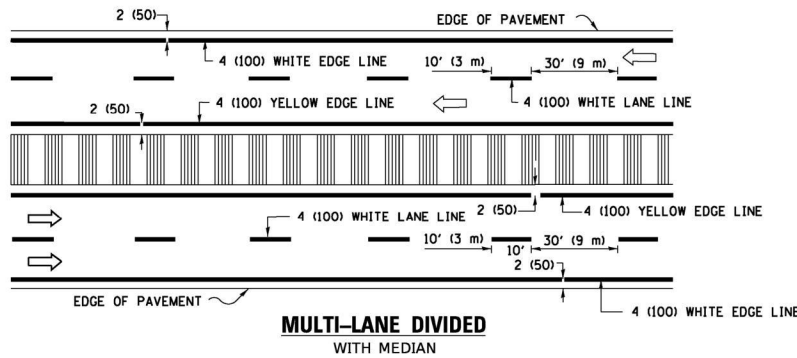
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|-----------------|--------------|
| 2305 | 24-00036-00-FP | KANE | 23 | 19 |
| | | CONTRACT NO. 6IL67 | | |
| ILLINOIS FED. AID PROJECT | | | | |



2-LANE ROADWAY

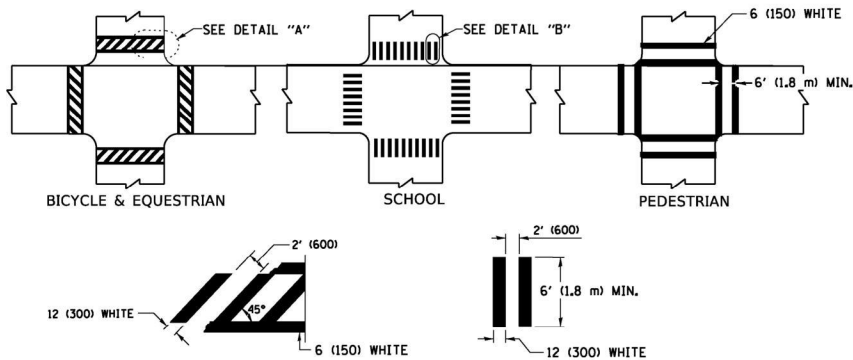


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

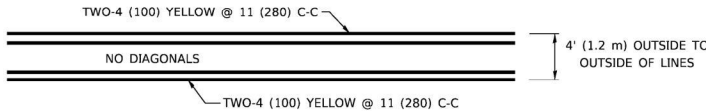


DETAIL "A"

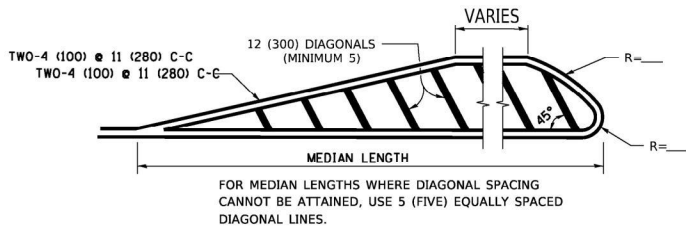
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

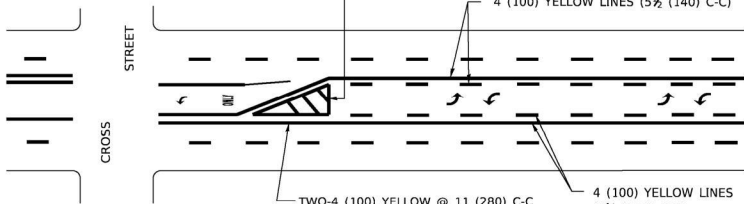


4' (1.2 m) WIDE MEDIANS ONLY



DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

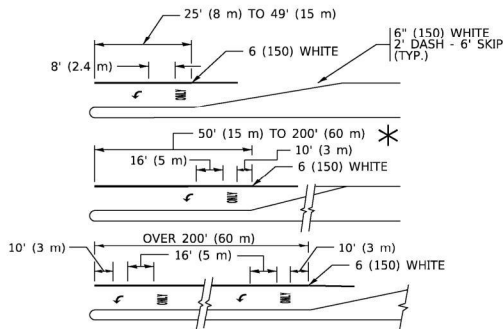
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

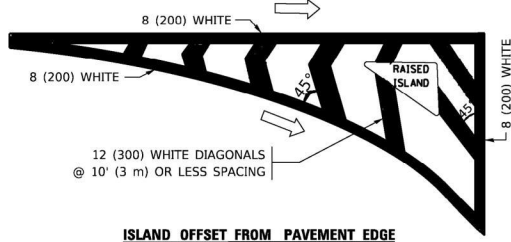
TYPICAL PAINTED MEDIAN MARKING



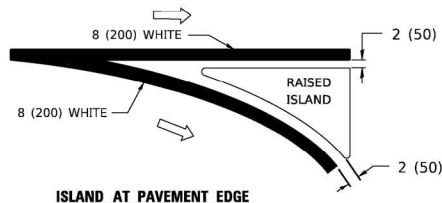
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

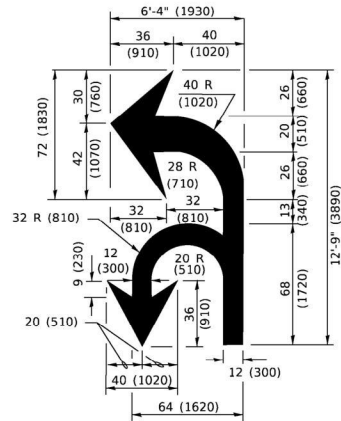


ISLAND OFFSET FROM PAVEMENT EDGE

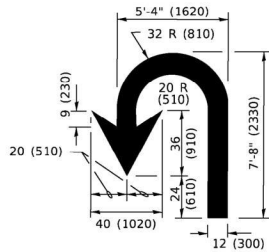


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|--|---------------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MEDIANS IN YELLOW |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²) |
| SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8') | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h)) |
| U TURN ARROW | SEE DETAIL | SOLID | WHITE | 16.3 SF |
| 2 ARROW COMBINATION LEFT AND U TURN | SEE DETAIL | SOLID | WHITE | 30.4 SF |

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

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

MODEL: Default
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Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

USER NAME = footemj
PLOT SCALE = 50.0000 ' / in.
PLOT DATE = 3/4/2019

DESIGNED - EVERS
DRAWN -
CHECKED -
DATE - 03-19-90

REVISED - C. JUCIUS 09-09-09
REVISED - C. JUCIUS 07-01-13
REVISED - C. JUCIUS 12-21-15
REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

| | | | | |
|-------------|----------------|--------------------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 2305 | 24-00036-00-FP | KANE | 23 | 22 |
| TC-13 | | CONTRACT NO. 6IL67 | | |
| ILLINOIS | | FED. AID PROJECT | | |

MODEL: Default
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**Engineering Enterprises,
CONSULTING ENGINEERS**
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

| | |
|------------|-------------------|
| USER NAME | = footernj |
| PLOT SCALE | = 50.0000 ' / in. |
| PLOT DATE | = 3/4/2019 |

| | |
|----------|---|
| DESIGNED | - |
| DRAWN | - |
| CHECKED | - |
| DATE | - |

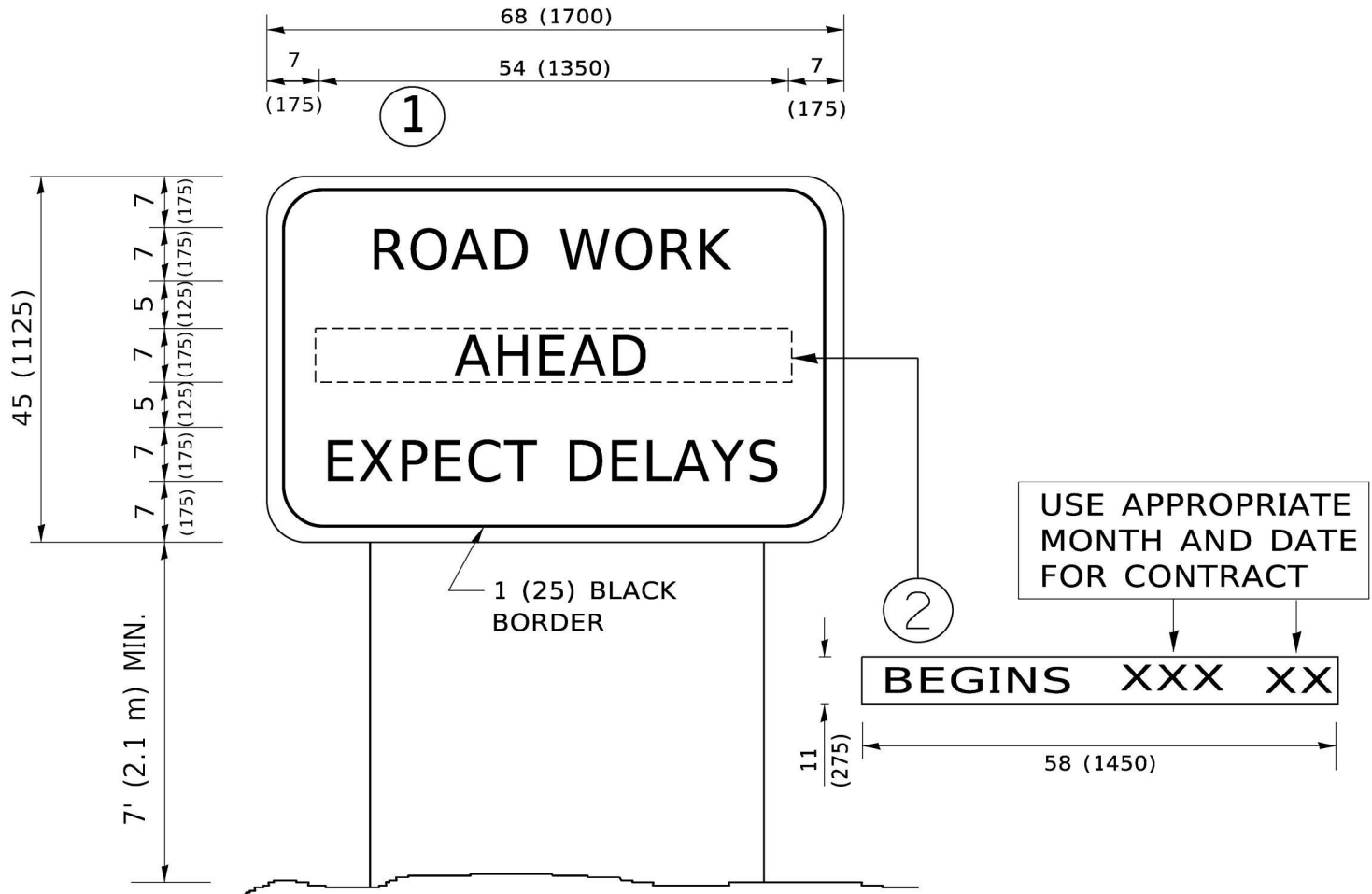
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|---------|---|--------------|----------|
| REVISED | - | R. MIRS | 09-15-97 |
| REVISED | - | R. MIRS | 12-11-97 |
| REVISED | - | T. RAMMACHER | 02-02-99 |
| REVISED | - | C. JUCIUS | 01-31-07 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

| | | | | | |
|-------------|---------|------|--------|------|---------|
| SCALE: NONE | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. |
|-------------|---------|------|--------|------|---------|

| | | | | |
|---------------------|---------------------------|--------------------|-----------------------|--------------------|
| F.A. BTL 2305 | SECTION 24-00036-00-FP | COUNTY KANE | TOTAL SHEETS 23 | SHEET NO. 23 |
| TC-22 | | CONTRACT NO. 61L67 | | |
| ILLINOIS | | FED. AID PROJECT | | |



NOTES:

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

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