MAD

NOVEMBER 2022

PROJECT ID: 5716-00-75

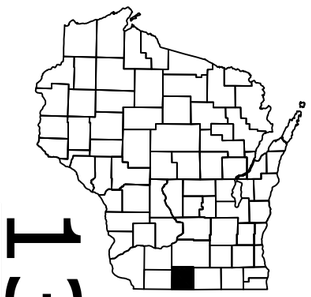
WITH:

COUNTY: GREEN COUNTY

ORDER OF SHEETS


| | | |
|---|---|---|
| Section No. | 1 | Title |
| Section No. | 2 | Typical Sections and Details |
| Section No. | 3 | Estimate of Quantities |
| Section No. | 3 | Miscellaneous Quantities |
| Section No. | 4 | Right of Way Plat |
| ~~Section No.~~ | ~~5~~ | ~~Plan and Profile~~ |
| Section No. | 6 | Standard Detail Drawings |
| ~~Section No.~~ | ~~7~~ | ~~Sign Plates~~ |
| ~~Section No.~~ | ~~8~~ | ~~Structure Plans~~ |
| ~~Section No.~~ | ~~9~~ | ~~Computer Earthwork Data~~ |
| Section No. | 9 | Cross Sections |


TOTAL SHEETS = 40



13

N

DESIGN DESIGNATION W. TERMINI - GLENWAY RD

| | | | |
|---|---|---|---|
| A.A.D.T. | 2023 | = | 50 |
| A.A.D.T. | 2043 | = | 100 |
| D.H.V. | | = | N/A |
| D.D. | | = | N/A |
| T. | | = | 20% USED FOR PDR |
| DESIGN SPEED | | = | 45 MPH |
| ESALS | | = | 22,000 FROM PDR |

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS
PROPERTY LINE
LOT LINE
LIMITED HIGHWAY EASEMENT
EXISTING RIGHT OF WAY
PROPOSED OR NEW R/W LINE
SLOPE INTERCEPT
REFERENCE LINE (300'ER')
EXISTING CULVERT
PROPOSED CULVERT (Box or Pipe)
COMBUSTIBLE FLUIDS (CAUTION)
MARSH AREA
WOODED OR SHRUB AREA

PROFILE

GRADE LINE
ORIGINAL GROUND
MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
SPECIAL DITCH (LABEL)
GRADE ELEVATION (95.36)
CULVERT (Profile View)

UTILITIES

ELECTRIC — E
FIBER OPTIC — FO
GAS — G
SANITARY SEWER — SAN
STORM SEWER — SS
TELEPHONE — T
WATER — W
UTILITY PEDESTAL
POWER POLE
TELEPHONE POLE

# STATE OF WISCONSIN
# DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

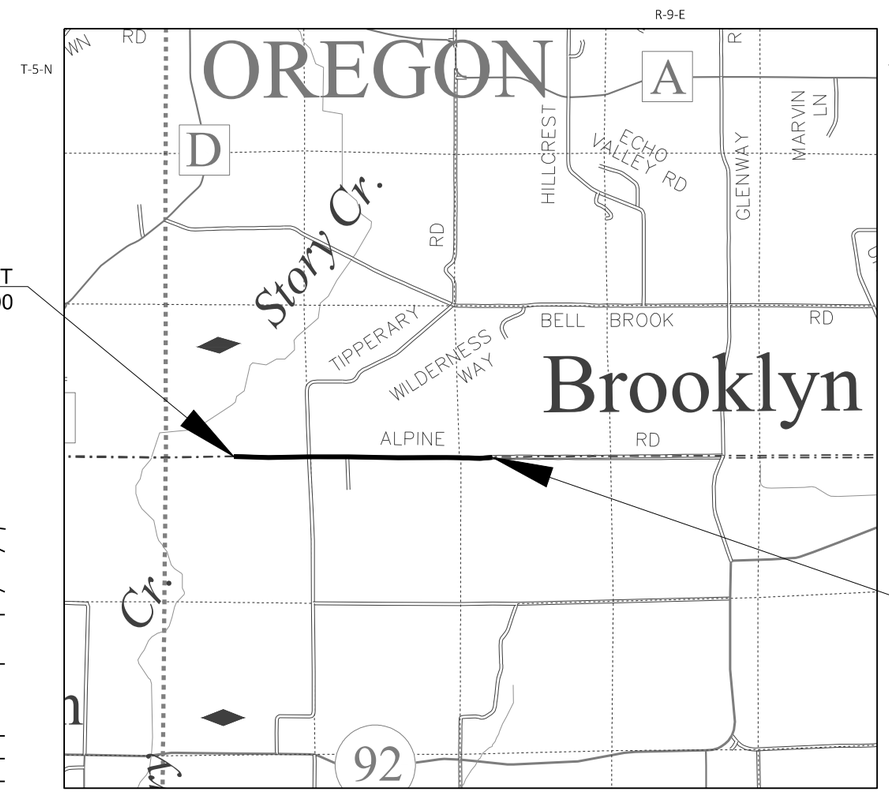
# TOWN OF BROOKLYN, ALPINE ROAD

W. TERMINI - GLENWAY ROAD

## LOCAL STREET
## GREEN COUNTY

| STATE PROJECT NUMBER |
|---|
| 5716-00-75 |

| STATE PROJECT | FEDERAL PROJECT | |
|---|---|---|
| | PROJECT | CONTRACT |
| 5716-00-75 | WISC 2023075 | 1 |
| | | |
| | | |
| | | |




BEGIN PROJECT
STA 100+00.00

END PROJECT
STA 186+62.66

LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 1.64 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), GREEN COUNTY NAD83 ( 2011 ), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 ( 2012 ). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

ACCEPTED FOR

*TOWN OF BROOKLYN*

Date 7/29/22 Kathy M Page Chairperson
(Signature and Title of Official)

ORIGINAL PLANS PREPARED BY

KL Engineering

WISCONSIN GERALD R. SCHMITT E-30504 Madison, WI PROFESSIONAL ENGINEER

7/29/2022 (Date) Gerald R Schmitt (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

| | |
|---|---|
| Surveyor | KL ENGINEERING |
| Designer | KL ENGINEERING |
| Project Manager | Zachary Pearson |
| Regional Examiner | Region Examiner |
| Regional Supervisor | Kyle Hemp |

APPROVED FOR THE DEPARTMENT

DATE 08/01/22 (Signature)

E

2

## ABBREVIATIONS

| | |
|---|---|
| AEW | APRON ENDWALL |
| ALUM. | ALUMINUM |
| AGG | AGGREGATE |
| ASPH | ASPHALT |
| AVG | AVERAGE |
| BAD | BASE AGGREGATE DENSE |
| BM | BENCH MARK |
| C&G | CURB AND GUTTER |
| CONC | CONCRETE |
| CP | CULVERT PIPE |
| CPCA | CULVERT PIPE CORRUGATED ALUMINUM |
| CPCS | CULVERT PIPE CORRUGATED STEEL |
| CPRC | CULVERT PIPE REINFORCED CONCRETE |
| D | DEGREE OF CURVE |
| DWY | DRIVEWAY |
| EAT | ENERGY ABSORBING TERMINAL |
| EB | EASTBOUND |
| EWAL | ENDWALL |
| EXIST | EXISTING |
| FE | FARM ENTRANCE |
| HMA | HOT MIX ASPHALT |
| INV | INVERT |
| L | LENGTH OF CURVE |
| LHF | LEFT HAND FORWARD |
| LT | LEFT |
| M/L | MATCHLINE |
| MAX | MAXIMUM |
| MGS | MIDWEST GUARDRAIL SYSTEM |
| MIN | MINIMUM |
| NC | NORMAL CROWN |
| NOR | NORMAL |
| PAVT | PAVEMENT |
| PC | POINT OF CURVATURE |
| PE | PRIVATE ENTRANCE |
| PI | POINT OF INTERSECTION |
| PT | POINT OF TANGENT |
| R | RADIUS |
| REIN | REINFORCED |
| R/L | REFERENCE LINE |
| R/W | RIGHT OF WAY |
| RC | REVERSE CROWN |
| REQD | REQUIRED |
| RHF | RIGHT HAND FORWARD |
| RO | RUN OFF LENGTH |
| RT | RIGHT |
| SALV | SALVAGED |
| SDD | STANDARD DETAIL DRAWINGS |
| SE | SUPER ELEVATION |
| SHLD | SHOULDER |
| STA | STATION |
| T | TANGENT LENGTH |
| TYP | TYPICAL |
| WB | WESTBOUND |
| | DELTA |

## UTILITY CONTACTS

**Alliant Energy - Electricity**
Mary Montgomery
200 1st St.
SE Cedar Rapids, IA 54201
(319) 786-4768
marymontgomery@alliantenergy.com

**Frontier Communications of WI LLC - Communication Line**
Russell Ryan
118 Division Street
Plymouth, WI 53073
(920) 583-3275
Russell.w.ryan@ftr.com

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

** DENOTES A UTILITY IS NOT A DIGGERS MEMBER

## GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN IN THE PLAN, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTACT DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO START OF WORK.

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR APPROXIMATE HORIZONTAL REFERENCE ONLY.

REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALT SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

NO TREES AND/OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

PIPE ELEVATIONS, LENGTHS, AND LOCATIONS AS SHOWN ON THE PLANS, MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

STATIONING AND OFFSETS TO APRON ENDWALLS FOR CULVERT PIPES ARE SHOWN AT THE TOP, OUTSIDE EDGE OF ENDWALL WHERE IT MEETS THE SIDESLOPE.

CONTRACTOR IS RESPONSIBLE FOR RESHAPING AND FINISHING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE THE NORMAL CONSTRUCTION LIMITS.

THE CONTRACTOR'S HMA PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

THE HMA PAVEMENT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

## ORDER OF DETAIL SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
PAVEMENT MARKING
TRAFFIC CONTROL

## HMA PAVEMENT, WHEN INDICATED ON THE PLANS, SHALL CONSIST OF COURSE THICKNESSES AS FOLLOWS:

| TOTAL DEPTH | LAYERS | HMA MIXTURES | LOCATIONS |
|---|---|---|---|
| 3.5-INCH | 1.75" UPPER<br>1.75" LOWER | 4 LT 58-28 S<br>4 LT 58-28 S | ALPINE ROAD & SIDE ROADS |
| 3-INCH | 3" LOWER | PULVERIZED BASE | ALPINE ROAD & SIDE ROADS |

## RUNOFF COEFFICENT TABLE

| | HYDROLOGIC SOIL GROUP | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | | | B | | | C | | | D | | |
| | SLOPE RANGE (PERCENT) | | | SLOPE RANGE (PERCENT) | | | SLOPE RANGE (PERCENT) | | | SLOPE RANGE (PERCENT) | | |
| LAND USE: | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER |
| ROW CROPS | 0.08<br>0.22 | 0.16<br>0.30 | 0.22<br>0.38 | 0.12<br>0.26 | 0.20<br>0.34 | 0.27<br>0.44 | 0.15<br>0.30 | 0.24<br>0.37 | 0.33<br>0.50 | 0.19<br>0.34 | 0.28<br>0.41 | 0.38<br>0.56 |
| MEDIAN STRIP-TURF | 0.19<br>0.24 | 0.20<br>0.26 | 0.24<br>0.30 | 0.19<br>0.25 | 0.22<br>0.28 | 0.26<br>0.33 | 0.20<br>0.26 | 0.23<br>0.30 | 0.30<br>0.37 | 0.20<br>0.27 | 0.25<br>0.32 | 0.30<br>0.40 |
| SIDE SLOPE-TURF | | | 0.25<br>0.32 | | | 0.27<br>0.34 | | | 0.28<br>0.36 | | | 0.30<br>0.38 |
| PAVEMENT: | | | | | | | | | | | | |
| ASPHALT | .70 - .95 | | | | | | | | | | | |
| CONCRETE | .80 - .95 | | | | | | | | | | | |
| BRICK | .70 - .80 | | | | | | | | | | | |
| DRIVES, WALKS | .75 - .85 | | | | | | | | | | | |
| ROOFS | .75 - .95 | | | | | | | | | | | |
| GRAVEL ROADS. SHOULDERS | .40 - .60 | | | | | | | | | | | |

TOTAL PROJECT AREA = 55.6 ACRES
TOTAL AREA EXPECTED TO BE DISTRIBUTED BY CONSTRUCTION ACTIVITIES = 1.5 ACRES


### DESIGN CONTACT

KL ENGINEERING
GERRY SCHMITT
5400 KING JAMES WAY, SUITE 200
MADISON, WI 53719
(608) 663-1218
gschmitt@klengineering.com

### DNR LIAISON

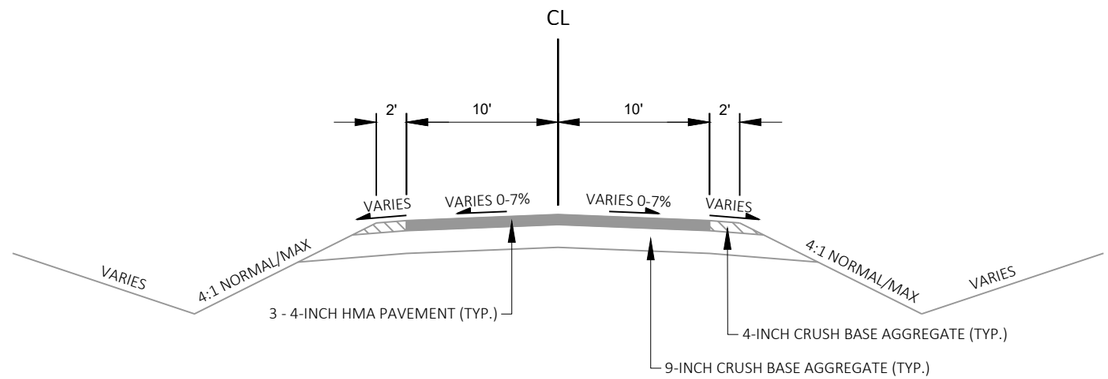
DEPARTMENT OF NATURAL RESOURCES
DNR SOUTH REGION HEADQUARTERS
SHELLY NELSON
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 444-2835
shelley.nelson@wisconsin.gov

### PROJECT MANAGER

WISDOT SW REGION LOCAL PROGRAM MANAGER
ZACHARY PEARSON
2101 WRIGHT ST
MADISON, WI 53704
(608) 246-5319
Zachary.Pearson@dot.wi.gov

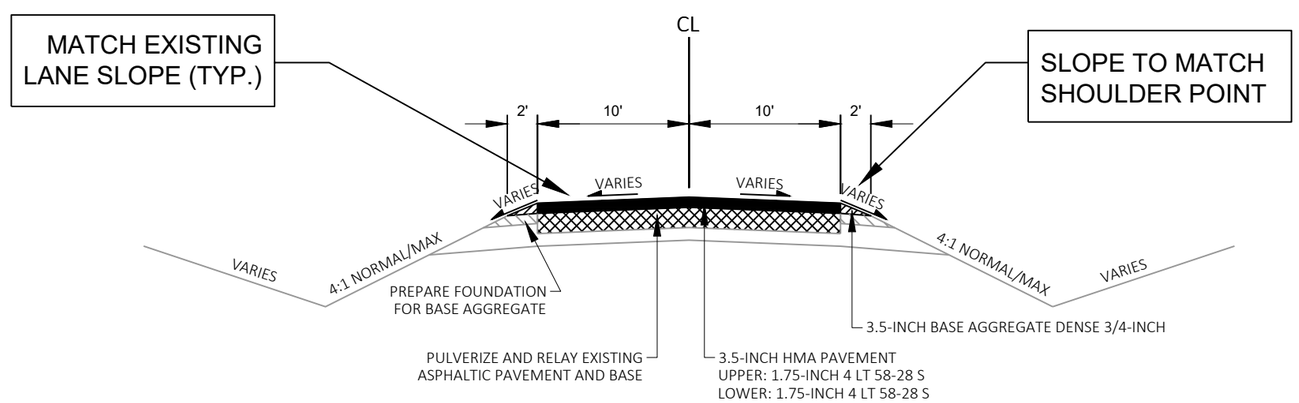
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | PLAN OVERVIEW | SHEET 3 | E |
|---|---|---|---|---|---|

FILE NAME : G:\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 01
PLOT DATE : 6/30/2022 2:05 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
PLOT SCALE : 1 IN:600 FT
WISDOT/CADDS SHEET 42




EXISTING TYPICAL SECTION

STA 100+00 - 186+62.66



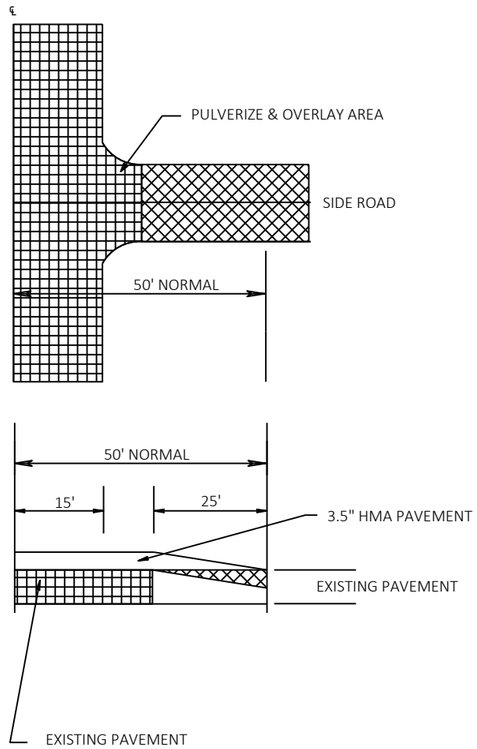

FINISHED TYPICAL SECTION

STA 100+00 - 186+62.66

| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | TYPICAL SECTION | SHEET 4 | E |
|---|---|---|---|---|---|

SIDE ROAD DETAIL - NO CURB & GUTTER

NOT TO SCALE



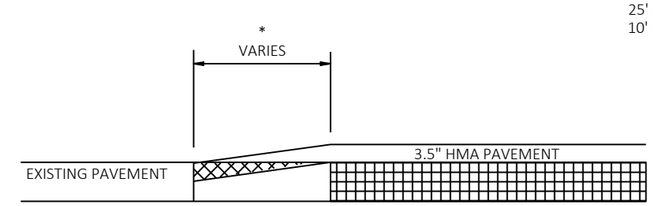

REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALT SURFACE , BUTT JOINTS'
MATERIAL SHALL NOT BE REMOVED UNDER THIS ITEM UNTIL 24 HOURS BEFORE
SIDEROAD PAVING.

SIDEROAD PAVEMENT DEPTH SHALL MATCH AT MAINLINE PAVEMENT EDGE AND BE TAPERED TO 3.5" MINIMUM AT JOINT

PULVERIZE AND RELAY EXISTING ASPHALT PAVEMENT

NOTE: ANY SAWCUT USED WILL BE CONSIDERED INCIDENTAL TO THE ITEM "REMOVING ASPHALTIC SURFACE, BUTT JOINTS."

* 75' MIN. ALPINE ROAD
25' MIN. SIDE ROADS
10' MIN. DRIVEWAYS



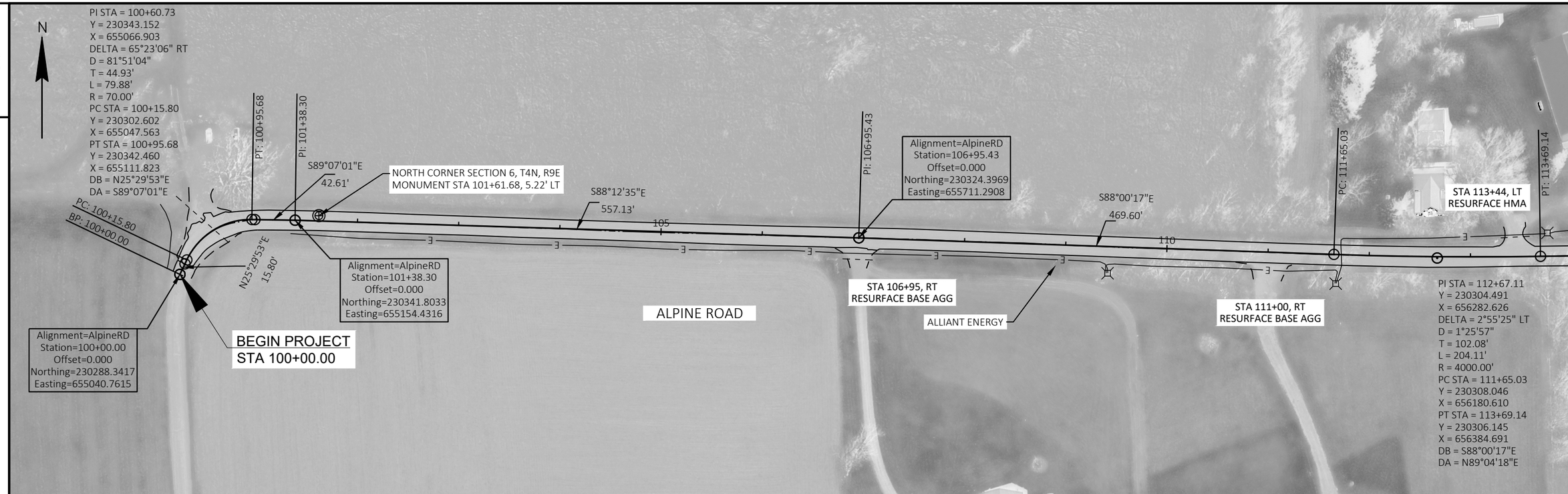

REQUIRED AT BEGIN AND END
PAVING LOCATIONS

PAID FOR AS REMOVING ASPHALTIC
SURFACE BUTT JOINTS

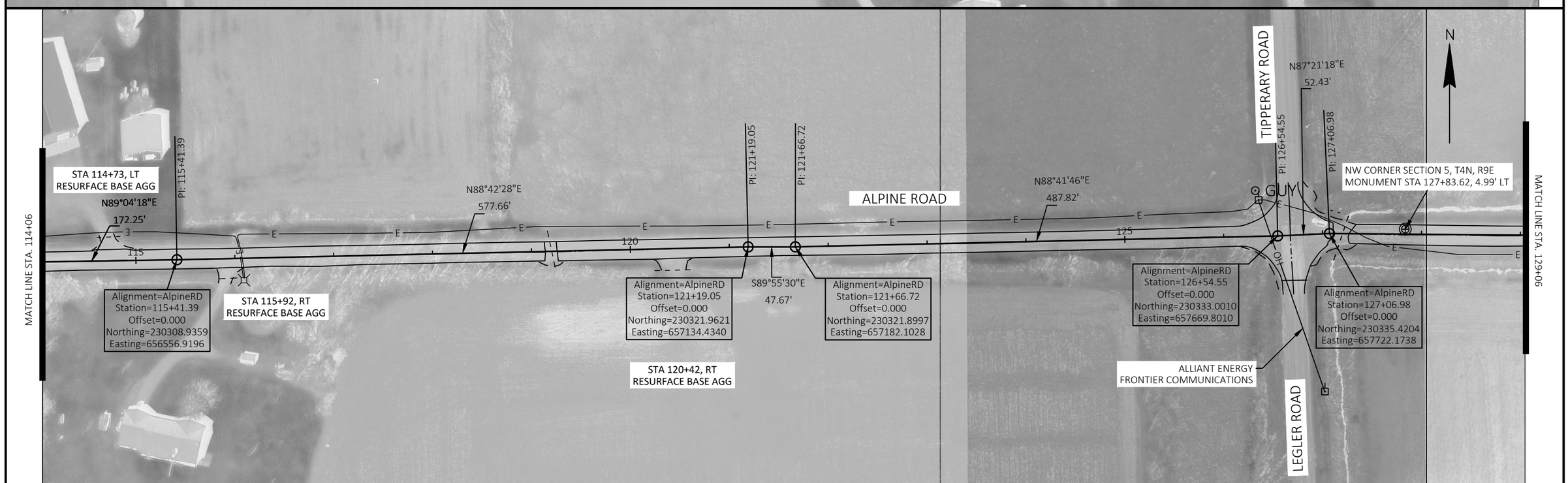
NOTE: ANY SAWCUT USED IN THIS OPERATION
CONSIDERED INCIDENTAL TO THIS ITEM

PULVERIZE AND RELAY EXISTING ASPHALT PAVEMENT

## BUTT JOINT DETAIL

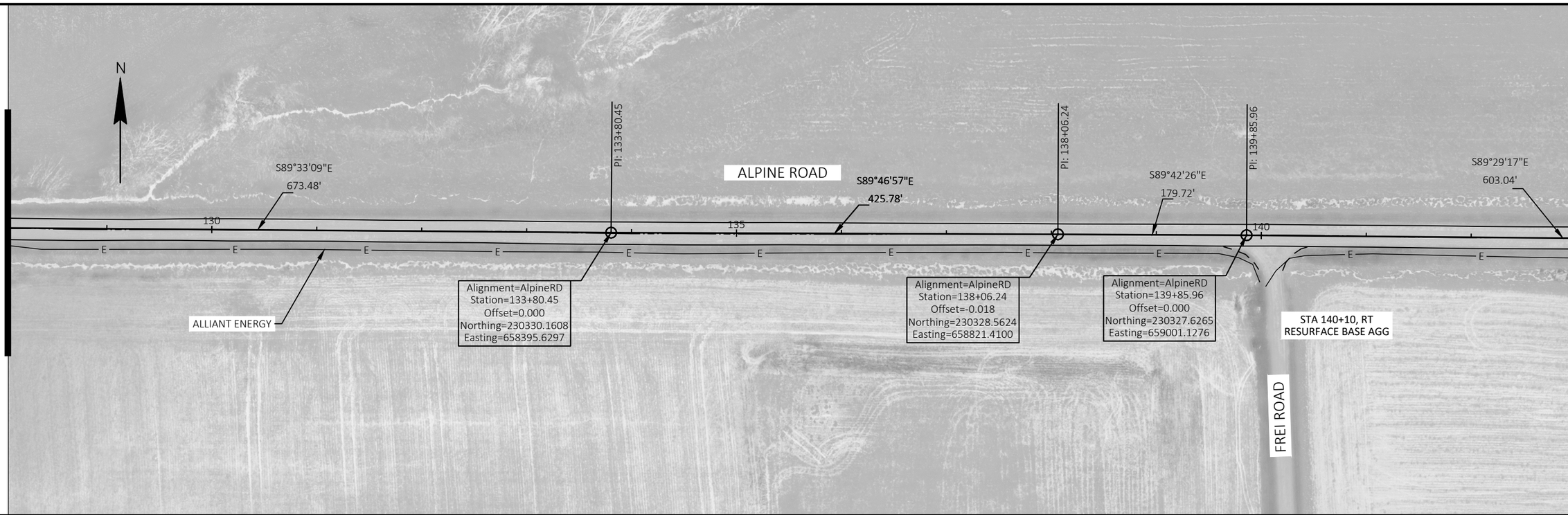


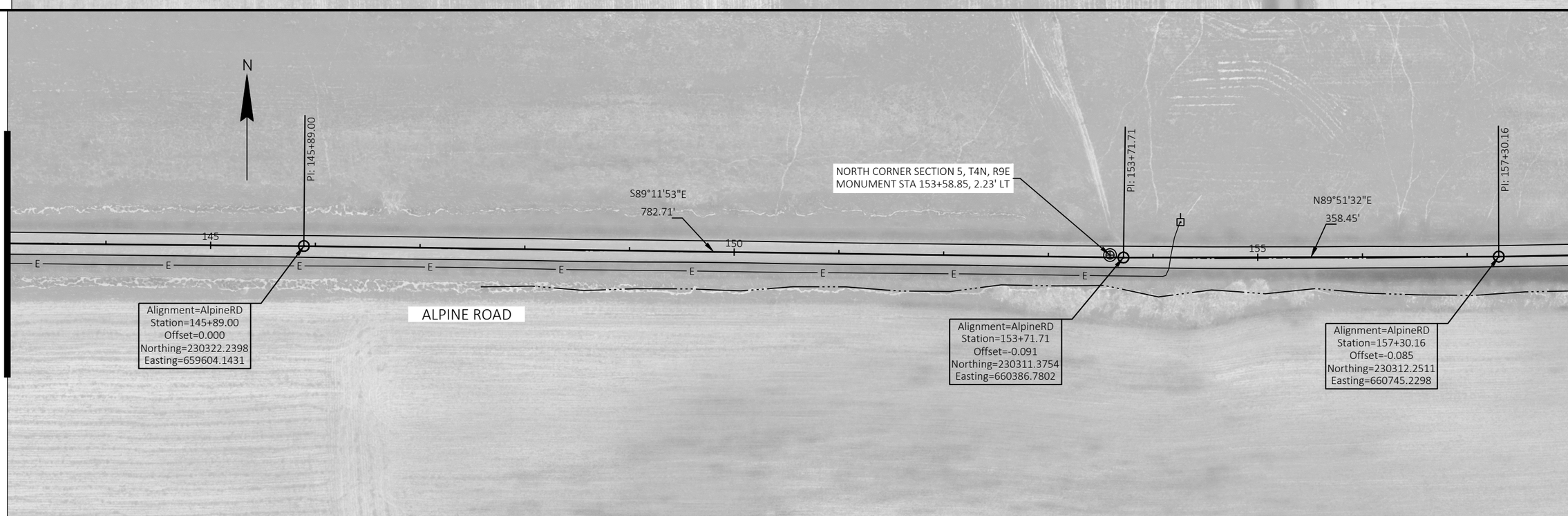



| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | PLAN DETAILS | SHEET 6 | E |
|---|---|---|---|---|---|

2

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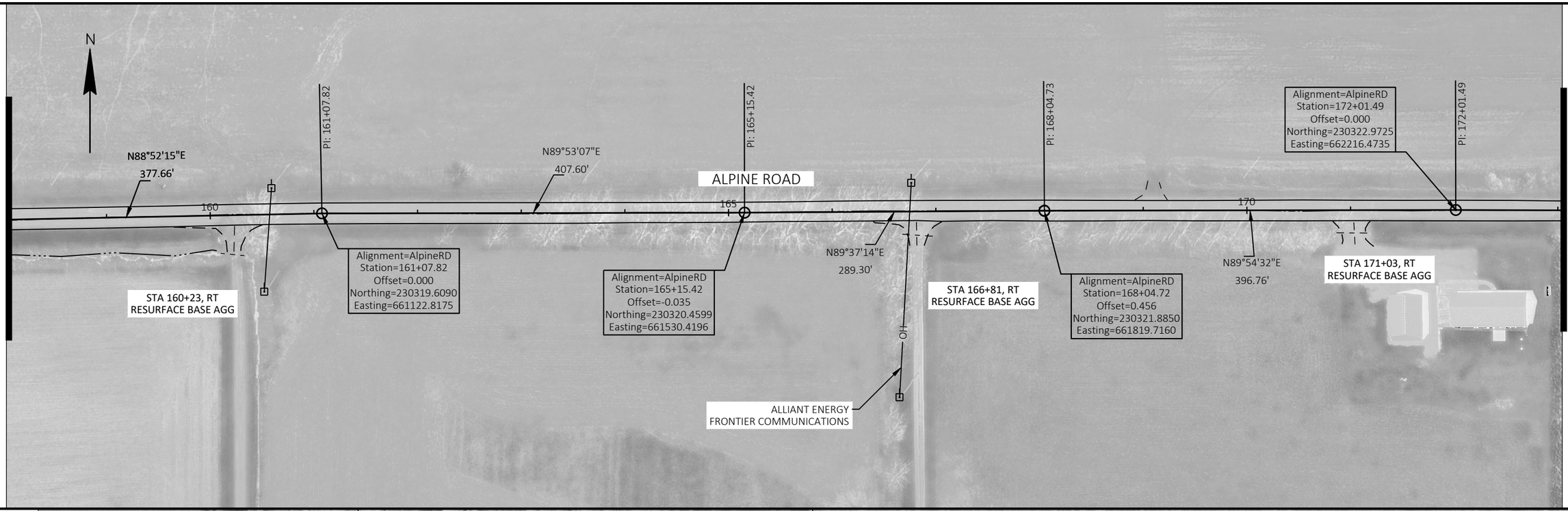
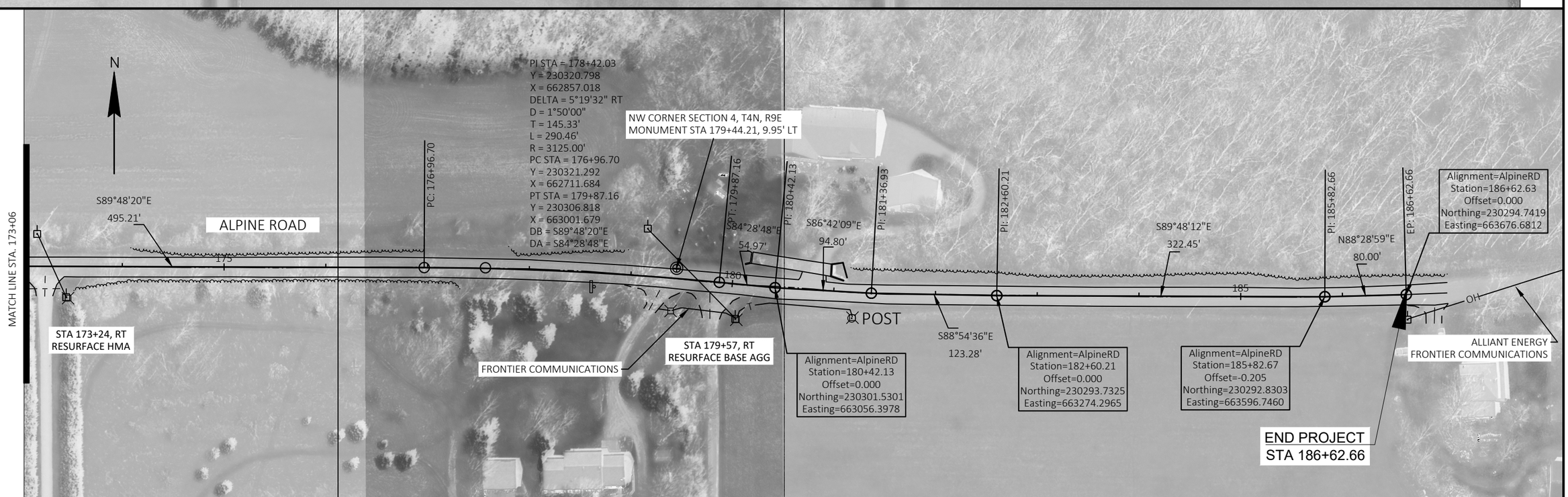
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | PLAN DETAILS | SHEET 7 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - SHEET 2
PLOT DATE : 9/7/2022 6:06 PM PLOT BY : ARMAN KHAN PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

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| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | PLAN DETAILS | SHEET 8 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - SHEET 3
PLOT DATE : 9/7/2022 6:06 PM PLOT BY : ARMAN KHAN PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

MAINTENANCE OF TRAFFIC:

ALPINE RD

- ALPINE RD SHALL BE CLOSED AND DETOURED FOR PULVERIZE & OVERLAY AND WILL UTILIZE FLAGGING OPERATIONS AND SHOULDER CLOSURES FOR OTHER WORK AS NOTED IN THE CONTRACT SPECIAL PROVISIONS.

LOCAL ROADS AND DRIVEWAYS

- MAINTAIN LOCAL ACCESS AT ALL TIMES

CONSTRUCTION TO BE COMPLETED:

ALPINE RD

- PULVERIZE & OVERLAY

TRAFFIC CONTROL NOTES:

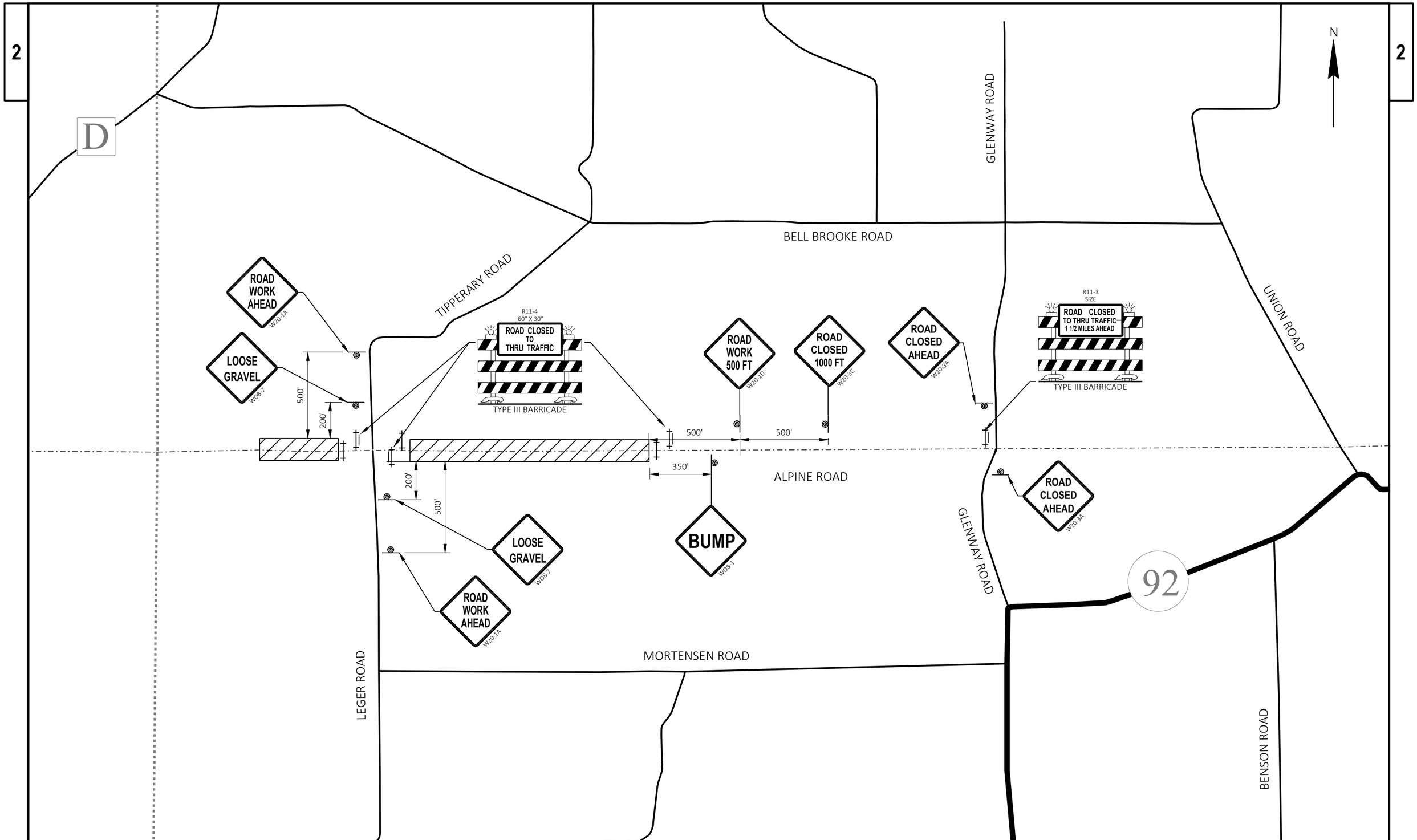
REFER TO THE FOLLOWING TRAFFIC CONTROL STANDARD DETAIL DRAWINGS FOR TRAFFIC CONTROL DEVICES AS NECESSARY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER:

- SEE S.D.D. "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL"
- SEE S.D.D. "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" AND "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
- SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"
- SEE S.D.D. "CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS"
- SEE S.D.D. "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"

TRAFFIC CONTROL GENERAL NOTES:

- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
- CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND SIGN MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGNS AND SIGN MESSAGE BOARDS.
- IF SIGNS ARE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS WITH A MINIMUM 5' MOUNTING HEIGHT.
- ALL TRAFFIC CONTROL SIGNING SHALL CONFORM TO: PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE WISCONSIN SUPPLEMENT TO THE MUTCD, TRAFFIC ENGINEERING, OPERATIONS AND SAFETY MANUAL, AND OTHER CONTRACT DOCUMENTS.
- THE TURNING OF TRAFFIC CONTROL DEVICES WHEN NOT IN USE TO OBSCURE THE MESSAGE WILL NOT BE ALLOWED.
- MOVE, REMOVE OR INSTALL ROUTE MARKER SIGNS AS REQUIRED TO MAINTAIN NECESSARY ROUTE GUIDANCE THROUGHOUT CONSTRUCTION.
- CONTRACTORS EQUIPMENT AND MATERIAL STOCKPILES MAY NOT BE STORED WITHIN THE CONSTRUCTION CLEAR ZONE WHILE THE CONTRACTOR IS NOT WORKING, UNLESS THEY ARE PROTECTED BY CONCRETE BARRIER TEMPORARY PRECAST.
- USE OF FLAGGING OPERATIONS AND TEMPORARY RUMBLE STRIPS ARE INCIDENTAL TO THE CONTRACT.

2




| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | TRAFFIC CONTROL PLAN | SHEET 10 | E |
|---|---|---|---|---|---|

FILE NAME : G:\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\025001-TC.DWG
LAYOUT NAME - TC PLAN
PLOT DATE : 9/8/2022 10:11 AM
PLOT BY : ARMAN KHAN
PLOT NAME :
PLOT SCALE : 1 IN:2000 FT
WISDOT/CADDS SHEET 42

## Estimate Of Quantities

5716-00-75

| Line | Item | Item Description | Unit | Total | Qty |
|---|---|---|---|---|---|
| 0002 | 204.0115 | Removing Asphaltic Surface Butt Joints | SY | 355.000 | 355.000 |
| 0004 | 204.0180 | Removing Delineators and Markers | EACH | 1.000 | 1.000 |
| 0006 | 211.0101 | Prepare Foundation for Asphaltic Paving (project) 01. 5716-00-75 | EACH | 1.000 | 1.000 |
| 0008 | 211.0500 | Prepare Foundation for Base Aggregate | STA | 86.627 | 86.627 |
| 0010 | 213.0100 | Finishing Roadway (project) 01. 5716-00-75 | EACH | 1.000 | 1.000 |
| 0012 | 305.0110 | Base Aggregate Dense 3/4-Inch | TON | 1,316.000 | 1,316.000 |
| 0014 | 325.0100 | Pulverize and Relay | SY | 19,705.000 | 19,705.000 |
| 0016 | 455.0605 | Tack Coat | GAL | 1,687.000 | 1,687.000 |
| 0018 | 460.2000 | Incentive Density HMA Pavement | DOL | 2,490.000 | 2,490.000 |
| 0020 | 460.5224 | HMA Pavement 4 LT 58-28 S | TON | 3,884.000 | 3,884.000 |
| 0022 | 465.0110 | Asphaltic Surface Patching | TON | 10.000 | 10.000 |
| 0024 | 465.0120 | Asphaltic Surface Driveways and Field Entrances | TON | 17.000 | 17.000 |
| 0026 | 618.0100 | Maintenance And Repair of Haul Roads (project) 01. 5716-00-75 | EACH | 1.000 | 1.000 |
| 0028 | 619.1000 | Mobilization | EACH | 1.000 | 1.000 |
| 0030 | 624.0100 | Water | MGAL | 27.000 | 27.000 |
| 0032 | 628.1504 | Silt Fence | LF | 100.000 | 100.000 |
| 0034 | 628.1520 | Silt Fence Maintenance | LF | 100.000 | 100.000 |
| 0036 | 628.1905 | Mobilizations Erosion Control | EACH | 3.000 | 3.000 |
| 0038 | 628.1910 | Mobilizations Emergency Erosion Control | EACH | 1.000 | 1.000 |
| 0040 | 642.5001 | Field Office Type B | EACH | 1.000 | 1.000 |
| 0042 | 643.0420 | Traffic Control Barricades Type III | DAY | 390.000 | 390.000 |
| 0044 | 643.0705 | Traffic Control Warning Lights Type A | DAY | 210.000 | 210.000 |
| 0046 | 643.0900 | Traffic Control Signs | DAY | 240.000 | 240.000 |
| 0048 | 643.5000 | Traffic Control | EACH | 1.000 | 1.000 |
| 0050 | 650.5000 | Construction Staking Base | LF | 8,663.000 | 8,663.000 |
| 0052 | 650.8000 | Construction Staking Resurfacing Reference | LF | 8,663.000 | 8,663.000 |
| 0054 | 650.9911 | Construction Staking Supplemental Control (project) 01. 5716-00-75 | EACH | 1.000 | 1.000 |
| 0056 | 690.0150 | Sawing Asphalt | LF | 168.000 | 168.000 |
| 0058 | 740.0440 | Incentive IRI Ride | DOL | 3,295.000 | 3,295.000 |
| 0060 | ASP.1T0A | On-the-Job Training Apprentice at $5.00/HR | HRS | 300.000 | 300.000 |
| 0062 | ASP.1T0G | On-the-Job Training Graduate at $5.00/HR | HRS | 250.000 | 250.000 |
| 0064 | SPV.0060 | Special 01. Verify Landmark Reference Monuments | EACH | 4.000 | 4.000 |

3

## BUTT JOINTS

| LOCATION | STATION - STATION | | 204.0115 ASPHALTIC SURFACE BUTT JOINTS (SY) |
|---|---|---|---|
| **PROJECT 5716-00-75** | | | |
| **CATEGORY 0010** | | | |
| ALPINE DR - PROJECT START | 100+00 | 100+25 | 56 |
| ALPINE DR - TIPPERARY (N) | 126+00 | 127+50 | 12 |
| ALPINE DR - LEGLER (S) | 126+63 | 127+50 | 73 |
| ALPINE DR - DRIVEWAYS | 127+20 PATCH | | 48 |
| ALPINE DR- PROJECT END | 185+88 | 186+63 | 166 |
| **5716-00-75 PROJECT TOTALS** | | | **355** |

## REMOVING DELINEATORS AND MARKERS

| LOCATION | STATION | O/S | 204.0180 REMOVING DELINEATORS AND MARKERS (EACH) |
|---|---|---|---|
| **PROJECT 5716-00-75** | | | |
| **CATEGORY 0010** | | | |
| Alpine RD | 178+64 | RT | 1 |
| **5716-00-75 PROJECT TOTALS** | | | **1** |

3

## BASE AGGREGATE

| LOCATION | STATION - STATION | | 211.0500 PREPARE FOUNDATION FOR BASE AGG. (STA) | 305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON) | 624.0100 WATER (MGAL) |
|---|---|---|---|---|---|
| **PROJECT 5716-00-75** | | | | | |
| **CATEGORY 0010** | | | | | |
| ALPINE RD | 100+00 | 126+00 | 26 | 354 | 7.5 |
| ALPINE RD | 126+00 | 127+50 | 1.5 | 25 | 0.5 |
| ALPINE RD | 127+50 | 186+63 | 59.1 | 805 | 16.5 |
| ALPINE RD | DRIVEWAYS | | | 132 | 2.5 |
| **5716-00-75 PROJECT TOTALS** | | | **86.63** | **1,316** | **27** |

## PULVERIZE AND RELAY

| LOCATION | STATION - STATION | | 325.0100 PULVERIZE AND RELAY (SY) |
|---|---|---|---|
| **PROJECT 5716-00-75** | | | |
| **CATEGORY 0010** | | | |
| ALPINE DR | 100+00 | 126+00 | 5,810 |
| ALPINE DR | 126+00 | 127+50 | 750 |
| ALPINE DR | 127+50 | 126+63 | 13,145 |
| **5716-00-75 PROJECT TOTALS** | | | **19,705** |

## HMA PAVEMENT

| LOCATION | STATION - STATION | | 455.0605 TACK COAT (GAL) | 460.5224 HMA PAVEMENT 4 LT 58-28 S (TON) | 465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (TON) | 465.0110 ASPHALTIC SURFACE PATCHING (TON) | NOTES |
|---|---|---|---|---|---|---|---|
| **PROJECT 5716-00-75** | | | | | | | |
| **CATEGORY 0010** | | | | | | | |
| ALPINE DR | 100+00 | 126+00 | 408 | 1,141 | | | |
| ALPINE DR | 126+00 | 127+50 | 59 | 165 | | | |
| ALPINE DR | 126+63 | 127+50 | 922 | 2,578 | | | |
| ALPINE DR | 127+20 PATCH | | 5 | | | 10 | |
| ALPINE DR | DRIVEWAYS | | 12 | | 17 | | |
| UNDISTRIBUTED | | | 281 | -- | -- | -- | 20% TACK COAT AMOUNT ADDED IN CASE OF NEED ON PULVERIZED AREAS |
| **5716-00-75 PROJECT TOTALS** | | | **1,687** | **3,884** | **17** | **10** | |

3

## SILT FENCE

| LOCATION | 628.1504 SILT FENCE (LF) | 628.1520 SILT FENCE MAINTENANCE (LF) |
|---|---|---|
| **PROJECT 5716-00-75 CATEGORY 0010** | | |
| **UNDISTRIBUTED** | 100 | 100 |
| **5716-00-75 PROJECT TOTALS** | **100** | **100** |

## MOBILIZATIONS EROSION CONTROL

| LOCATION | 628.1905 MOBILIZATIONS EROSION CONTROL (EACH) | 628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH) |
|---|---|---|
| **PROJECT 5716-00-75 CATEGORY 0010** | | |
| PROJECT | 3 | 1 |
| **5716-00-75 PROJECT TOTALS** | **3** | **1** |

3

## TRAFFIC CONTROL

| LOCATION | 643.0420 BARRICADES TYPE III (DAY) | 643.0705 WARNING LIGHTS TYPE A (DAY) | 643.0900 SIGNS (DAY) |
|---|---|---|---|
| **PROJECT 5716-00-75 CATEGORY 0010** | | | |
| PROJECT STAGE 1 | 390 | 210 | 240 |
| **5716-00-75 PROJECT TOTALS** | **390** | **210** | **240** |

## STAKING

| LOCATION | 650.5000 CONSTRUCTION STAKING BASE (LF) | 650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE (LF) | 650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (LS) |
|---|---|---|---|
| **PROJECT 5716-00-75 CATEGORY 0010** | | | |
| PROJECT | 8,663 | 8,663 | 1 |
| **5716-00-75 PROJECT TOTALS** | **8,663** | **8,663** | **1** |

## SAWING ASPHALT

| LOCATION | STATION | STATION | 690.0150 SAWING ASPHALT (LF) |
|---|---|---|---|
| **PROJECT 5716-00-75 CATEGORY 0010** | | | |
| Alpine RD – Driveway (RT) | 106+70 | 107+17 | 46 |
| Alpine RD – Driveway (LT) | 113+23 | 113+64 | 40 |
| Alpine RD – Tipperary RD (N Intersection) | 126+57 | 126+78 | 20 |
| Alpine RD – Legler RD (S Intersection) | 126+57 | 126+80 | 22 |
| Alpine RD – Driveway (RT) | 173+03 | 173+43 | 40 |
| **5716-00-75 PROJECT TOTALS** | | | **168** |

## VERIFY LANDMARK REFERENCE MONUMENTS

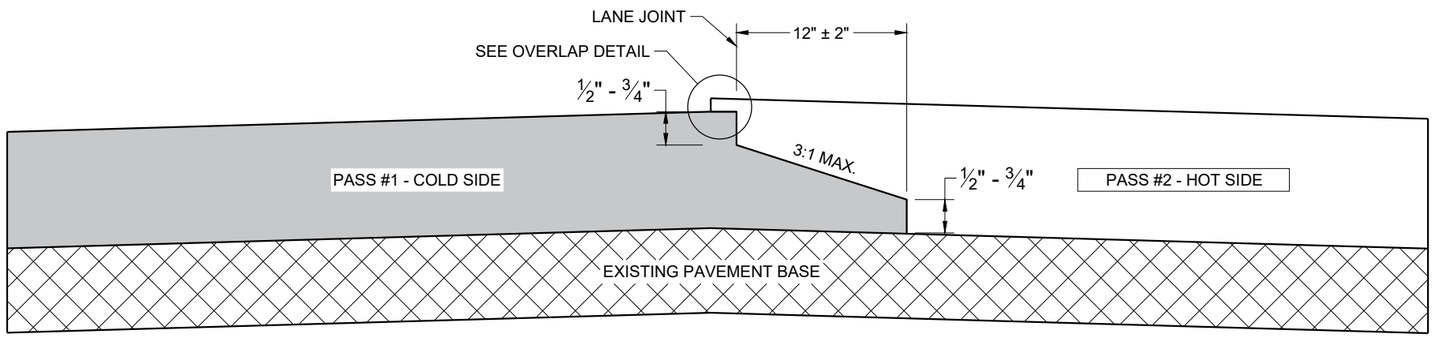
| LOCATION | STATION | SPV.0060.01 VERIFY LANDMARK REFERENCE (EACH) |
|---|---|---|
| **PROJECT 5716-00-75 CATEGORY 0010** | | |
| ALPINE RD | 101+61.68 | 1 |
| ALPINE RD | 127+83.62 | 1 |
| ALPINE RD | 153+58.85 | 1 |
| ALPINE RD | 179+44.21 | 1 |
| **5716-00-75 PROJECT TOTALS** | | **4** |

# Standard Detail Drawing List

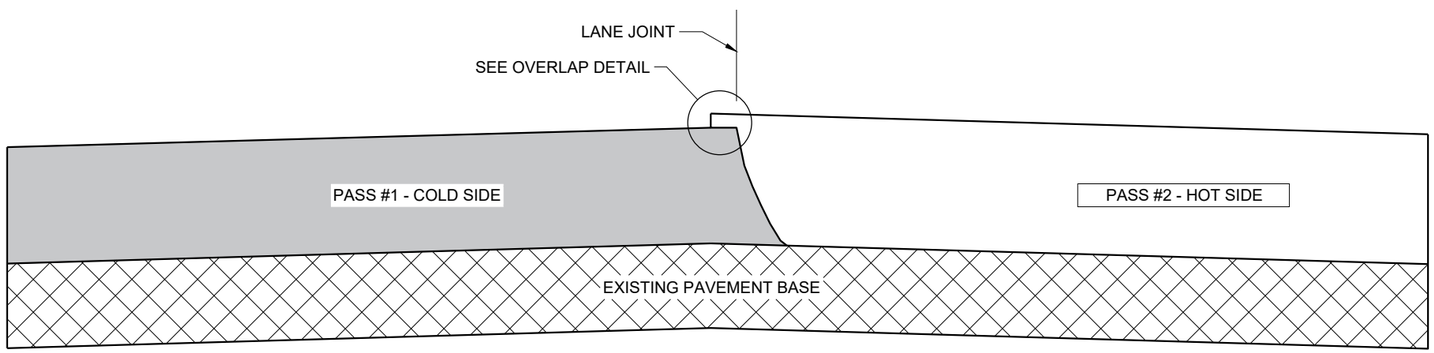
| | |
|---|---|
| 13C19-03 | HMA LONGITUDINAL JOINTS |
| 14B29-01 | SAFETY EDGE |
| 15C02-08A | BARRICADES AND SIGNS FOR MAINLINE CLOSURES |
| 15C03-05 | BARRICADES AND SIGNS FOR SIDEROAD CLOSURES |
| 15C04-05 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC |
| 15C05-05 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS |
| 15C11-09B | CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS |
| 15C12-09A | TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION |
| 15D45-03 | TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL |

6

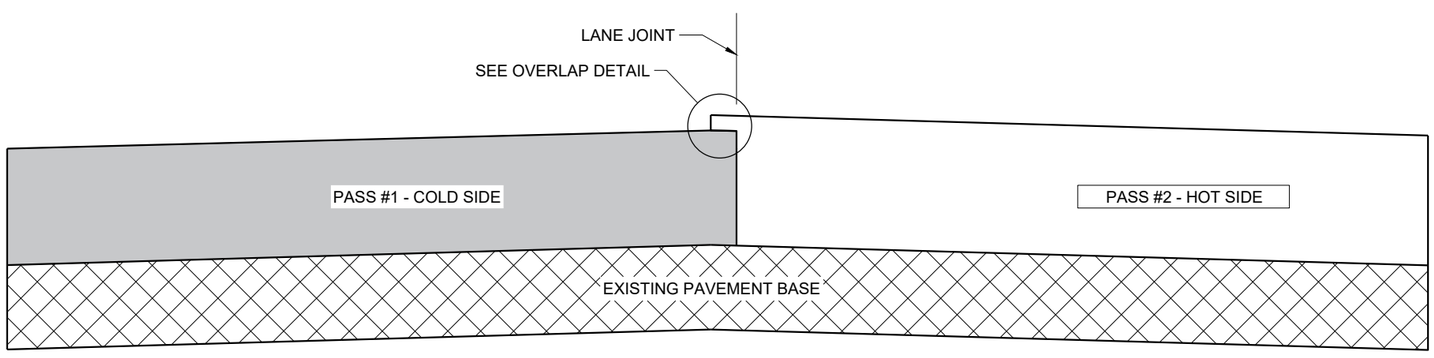
6




**TYPICAL PAVEMENT CROSS SECTION**
**NOTCHED WEDGE JOINT**




**TYPICAL PAVEMENT CROSS SECTION**
**VERTICAL JOINT**




**TYPICAL PAVEMENT CROSS SECTION**
**VERTICAL JOINT (MILLED)**

## GENERAL NOTES

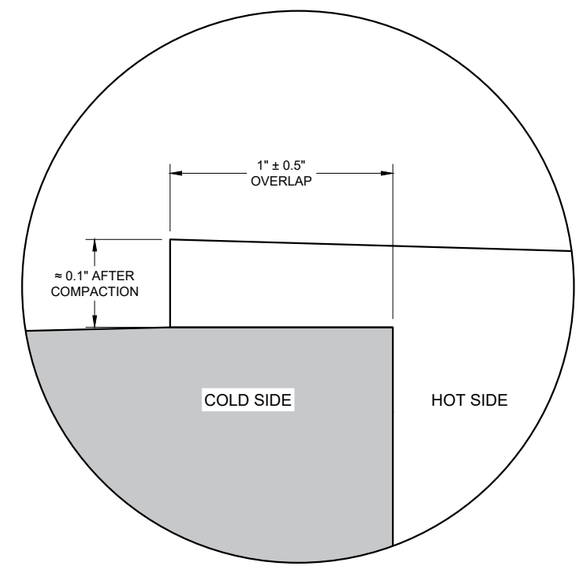
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.




**OVERLAP DETAIL (TYPICAL)**

6

6

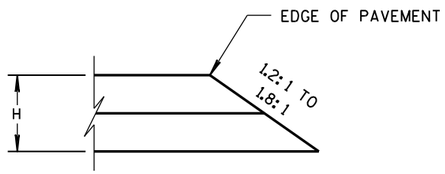
SDD 13C19 - 03

SDD 13C19 - 03

**HMA LONGITUDINAL JOINTS**

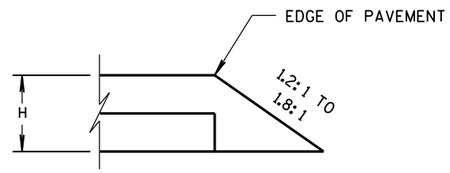
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020 /S/ Steven Hefel
DATE HMA PAVEMENT ENGIN
FHWA



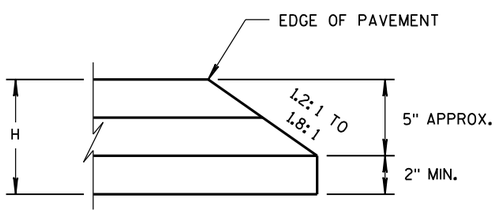

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



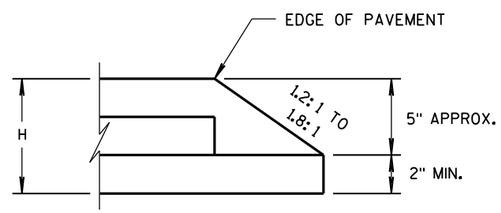

CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS




CONSTRUCTED WITH FINAL TWO LAYERS

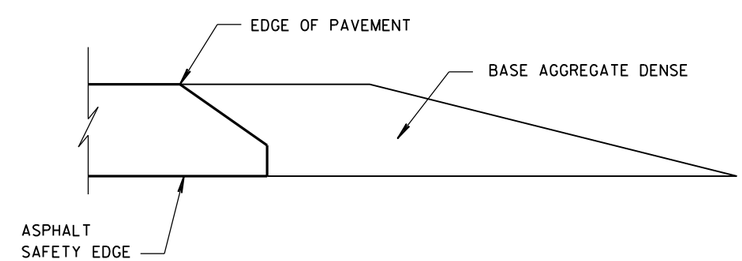
FOR H GREATER THAN 5"




CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

## HMA PAVEMENT AND HMA OVERLAYS




## FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

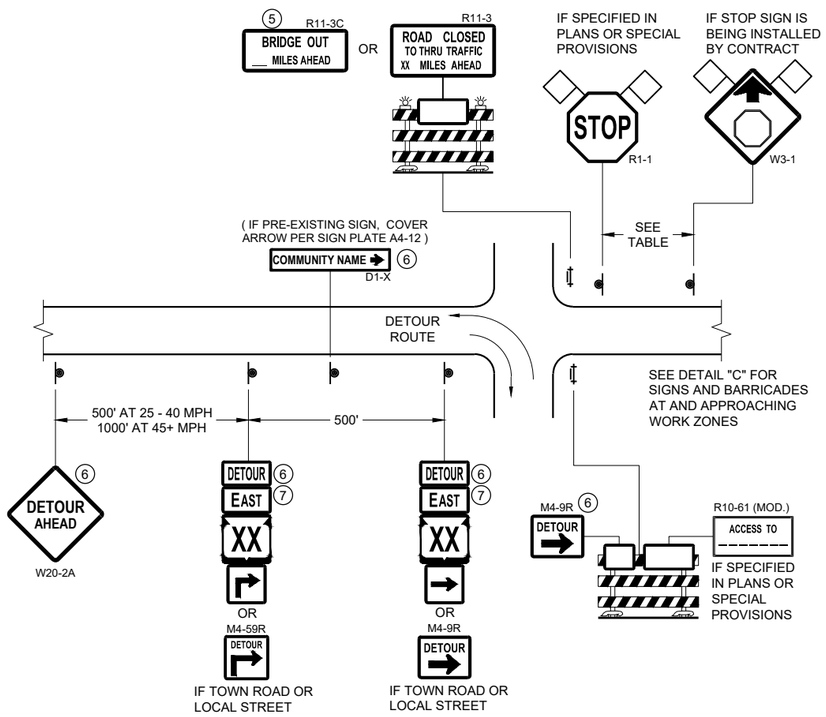
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012 — DATE

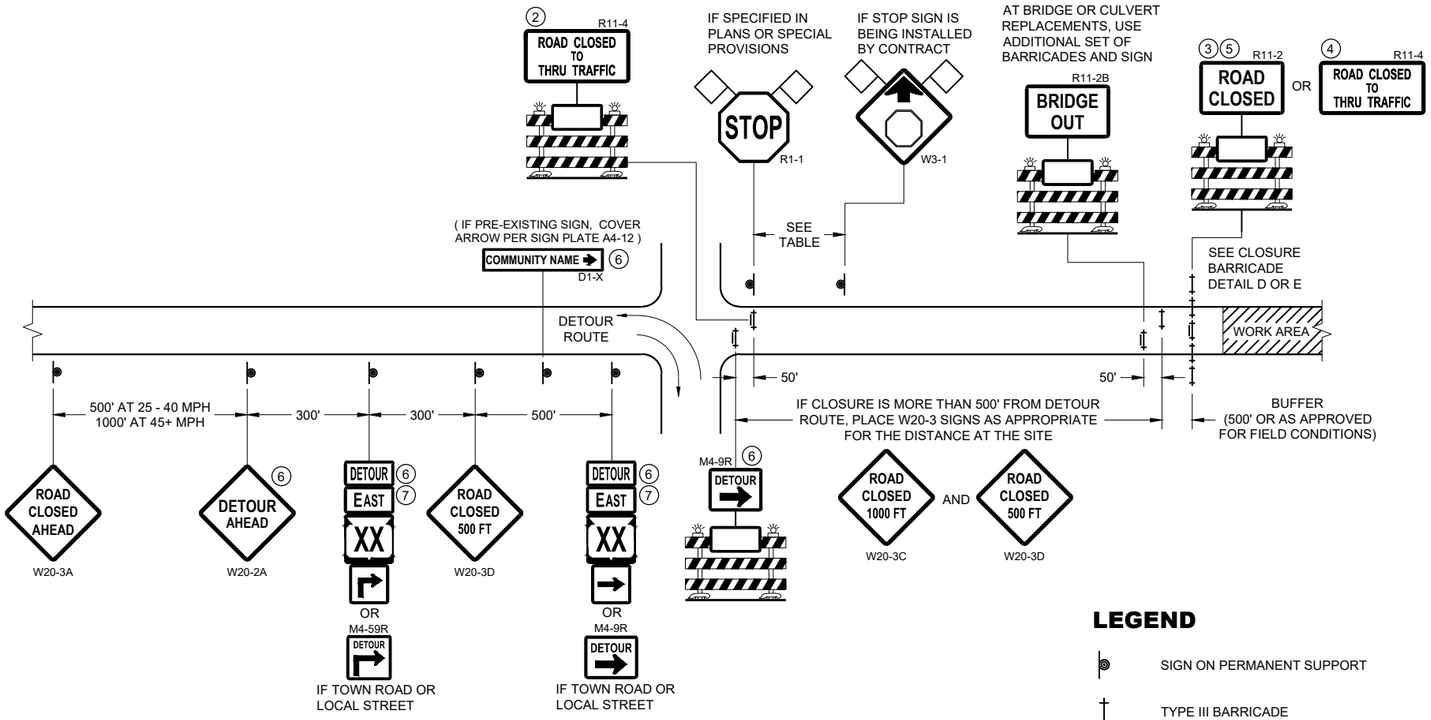
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA




**DETAIL A**
**MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE ( 1000 FEET IF URBAN )

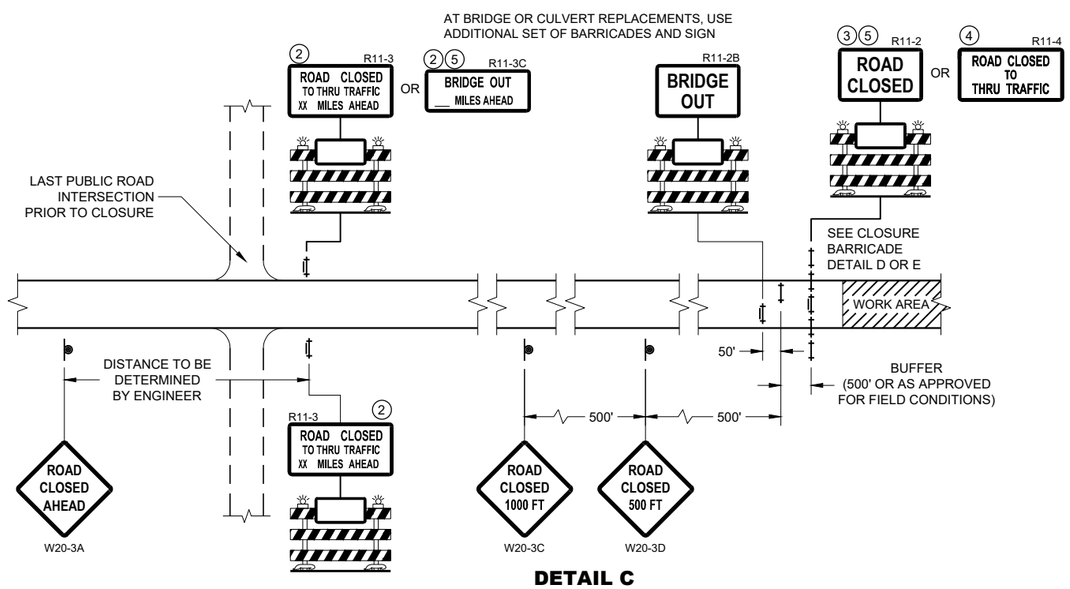



**DETAIL B**
**MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE ( 1000 FEET IF URBAN )

## LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR M4 - 8
- EAST M3 - X
- XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
- M05 - 1 OR M06 - 1




**DETAIL C**
**MAINLINE CLOSURE, NO POSTED DETOUR**

| SPEED LIMIT (MPH) | "STOP AHEAD" ADVANCE WARNING DISTANCE (FT) |
|---|---|
| 25 | 200 |
| 30 | 200 |
| 35 | 350 |
| 40 | 350 |
| 45 | 500 |
| 50 | 550 |
| 55 | 750 |

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES 1 THROUGH 7

**BARRICADES AND SIGNS FOR MAINLINE CLOSURES**

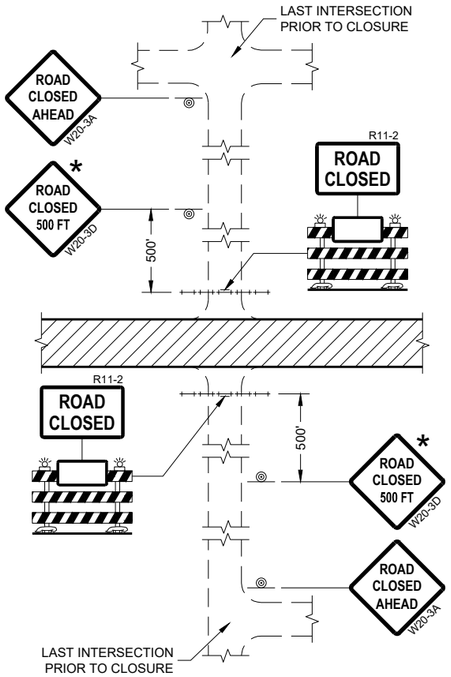
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

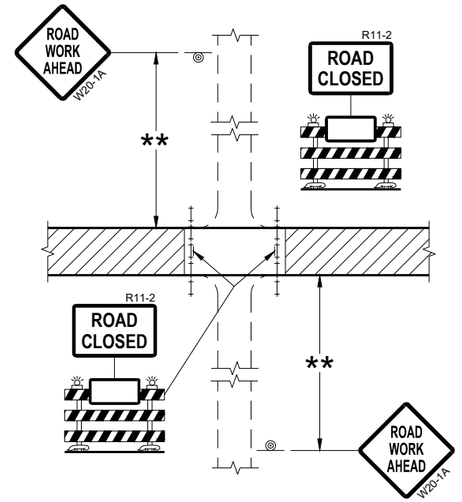



6


SDD 15C02 - 08a




**DETAIL 1**
(NO ACCESS TO PROJECT)




**DETAIL 2**
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

## GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

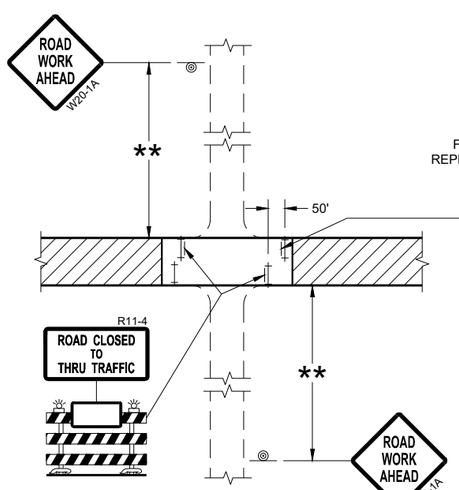
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

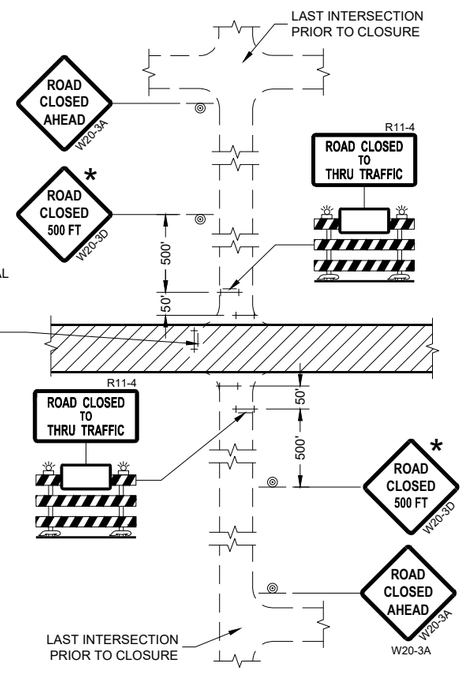
** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.




**DETAIL 3**
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

FOR BRIDGE OR CULVERT
REPLACEMENT, USE ADDITIONAL
SIGN ON BARRICADE

BRIDGE OUT
XX MILES AHEAD
R11-3C




**DETAIL 4**
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

## LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

**BARRICADES AND SIGNS FOR SIDEROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA



6

SDD 15C03 - 05

6

SDD 15C03 - 05

## GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

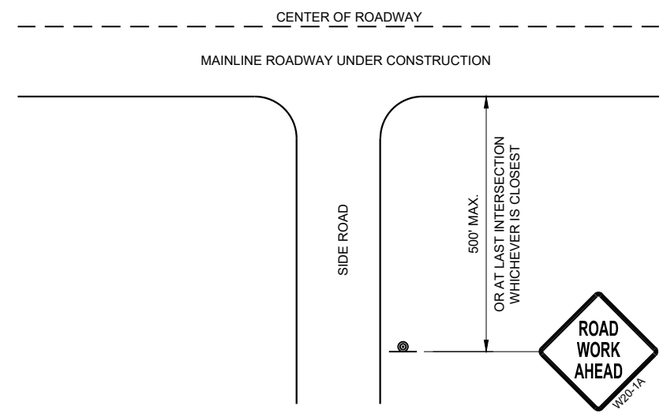
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

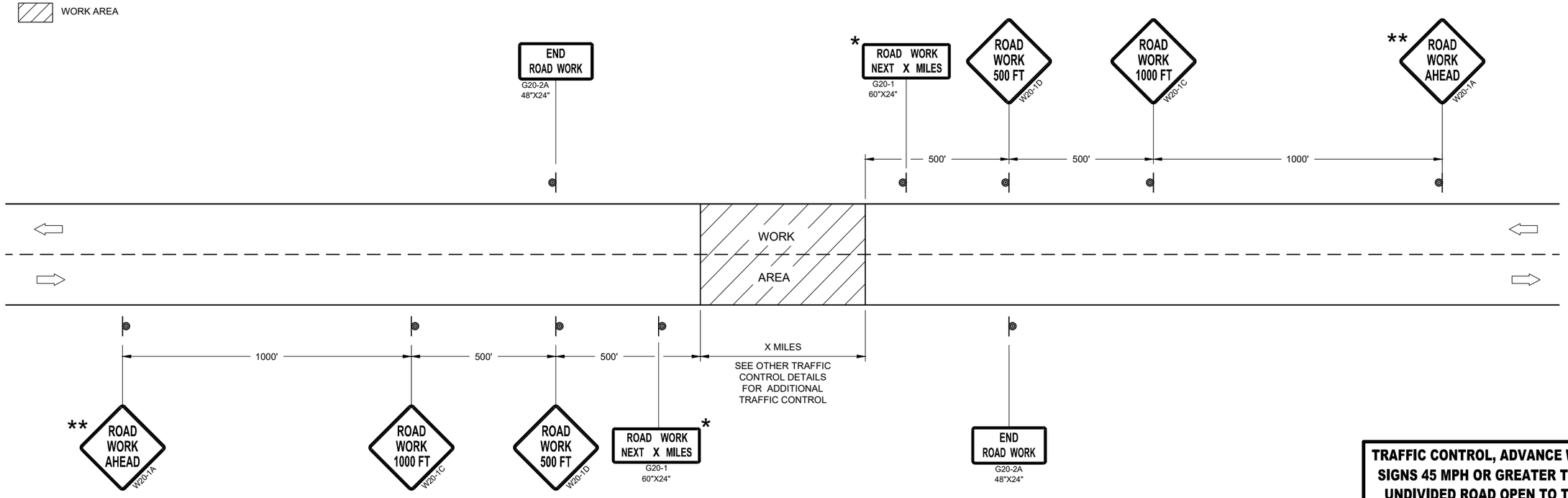
** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.




**TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL**

## LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA




**TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER**

**TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA



6
SDD 15C04 - 05

## GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

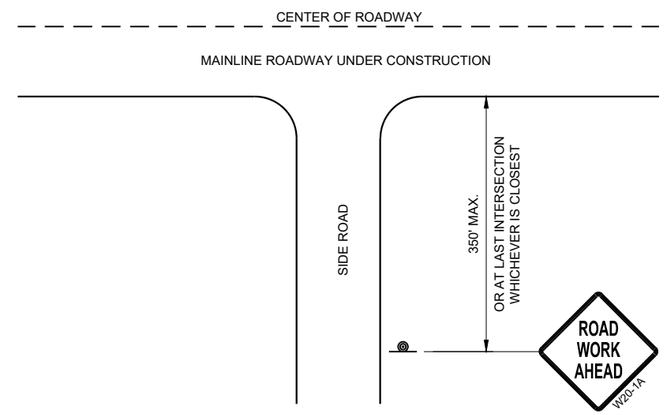
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

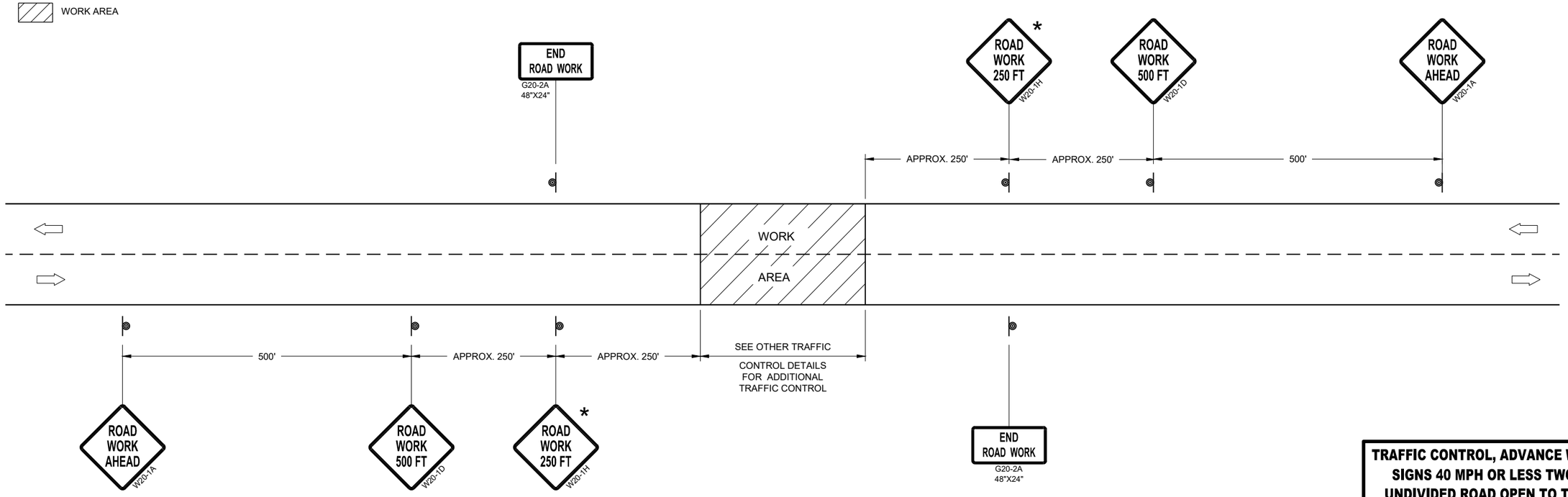
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.




**TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL**

## LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA




**TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS**

**TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC**

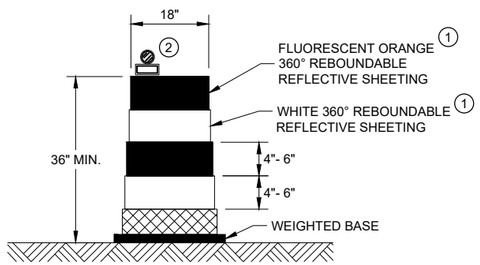
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

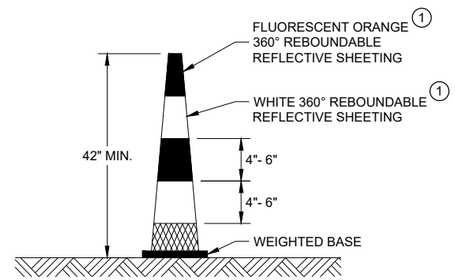

6
SDD 15C05 - 05

## GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

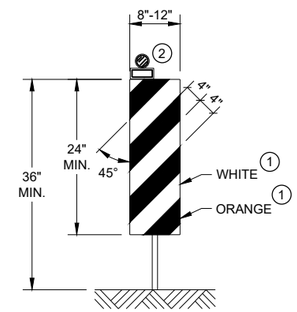



### DRUM



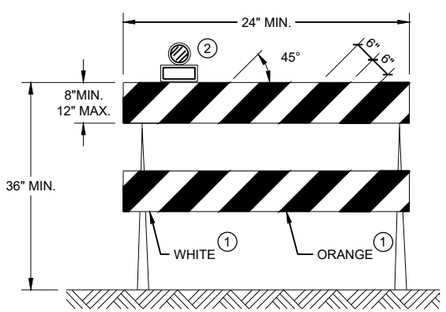

### 42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



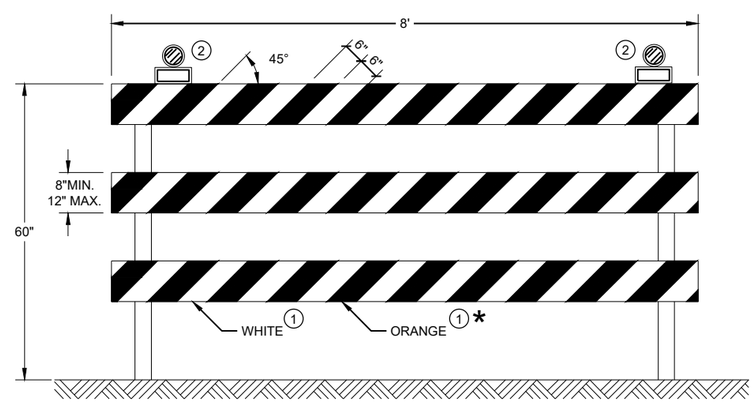

### VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.




### TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.




### TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA



6
SDD 15C11 - 09b

## LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

## GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

## FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

## TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

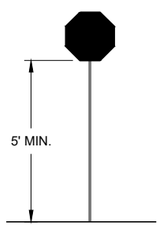
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



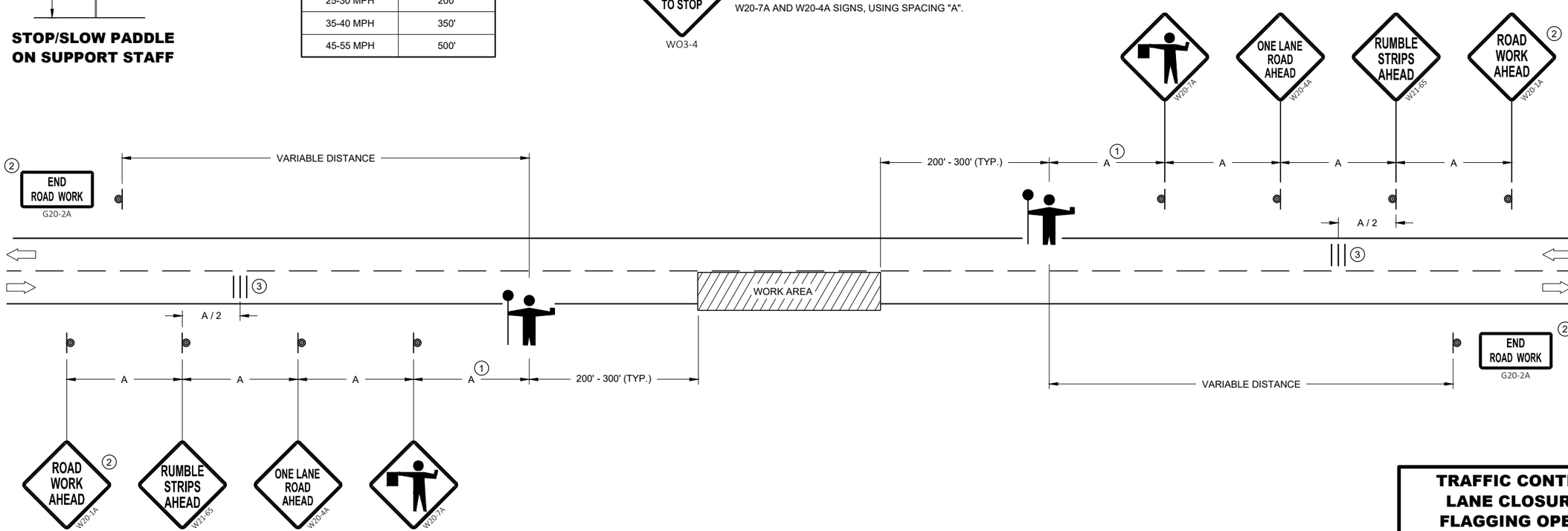

**STOP/SLOW PADDLE ON SUPPORT STAFF**

### SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

| SPEED LIMIT | SPACING "A" |
|---|---|
| 25-30 MPH | 200' |
| 35-40 MPH | 350' |
| 45-55 MPH | 500' |

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".




**TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA





6



SDD 15C12 - 09a

## GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

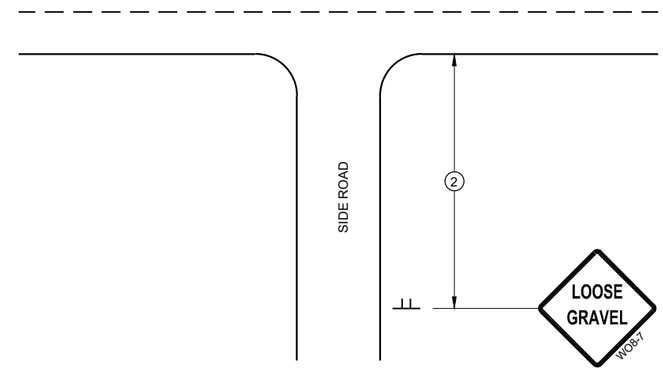
SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

1. PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
2. PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.
3. ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

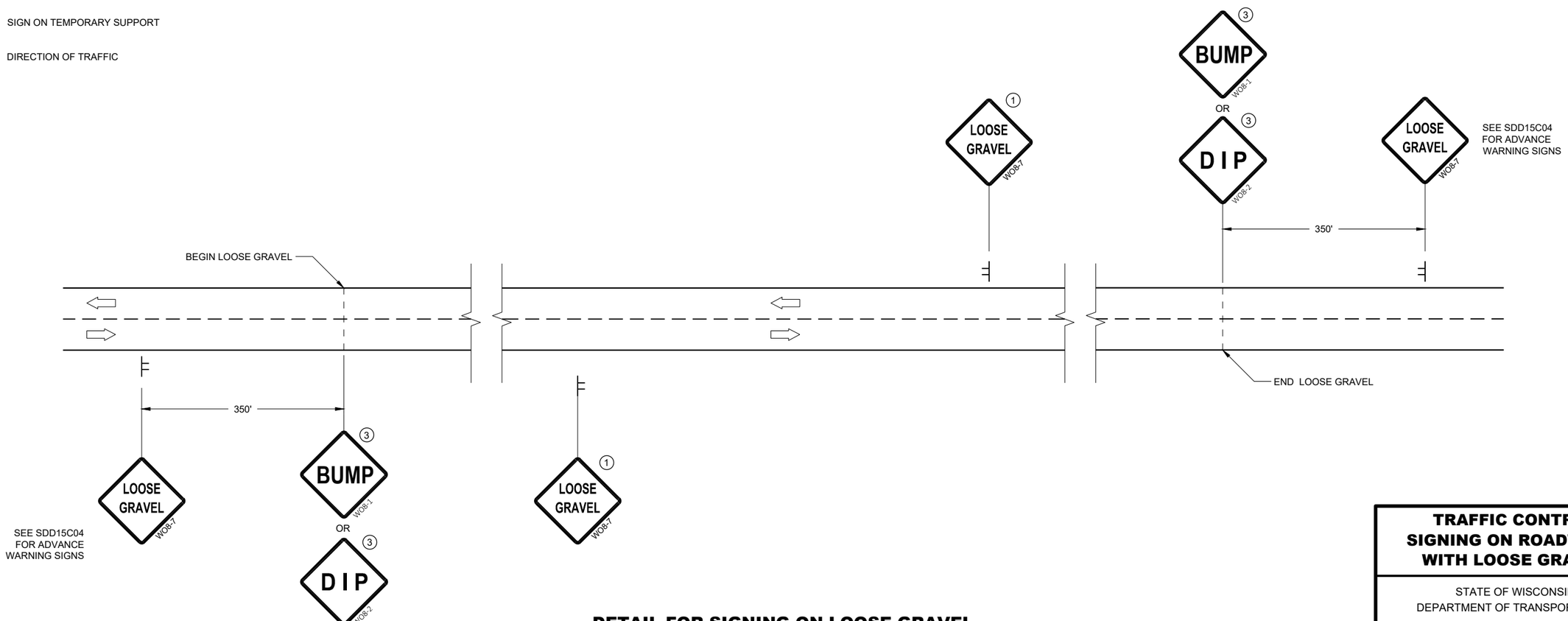
## LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC




**TYPICAL SIDE ROAD APPROACH SIGN DETAIL**




**DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES**

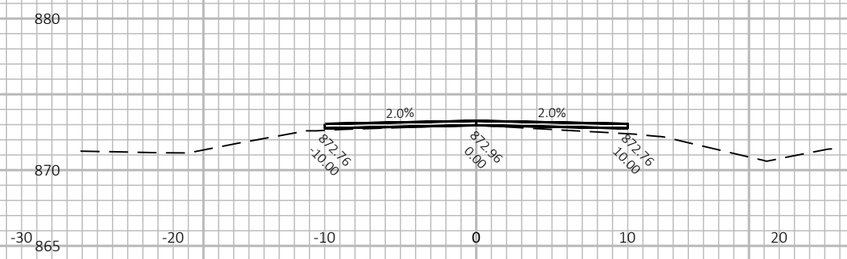
**TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEE
FHWA



6
SDD 15D45 - 03

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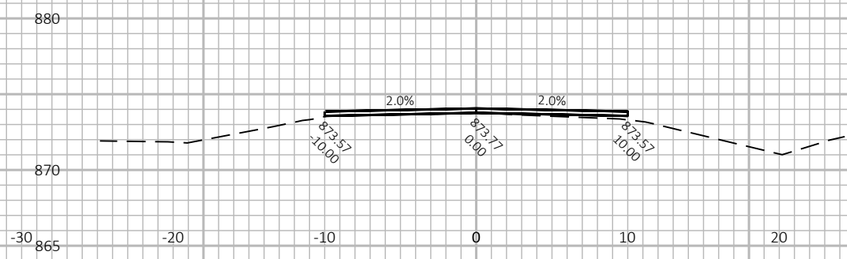
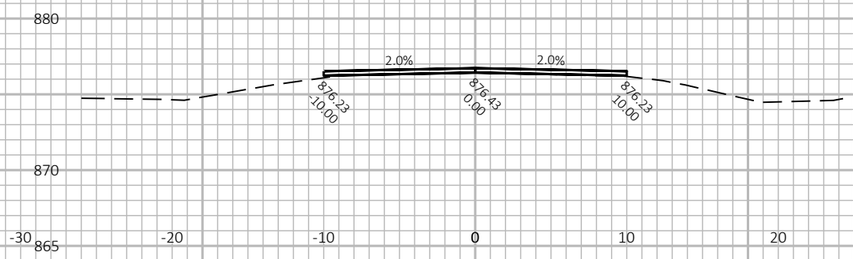



102+00

103+00

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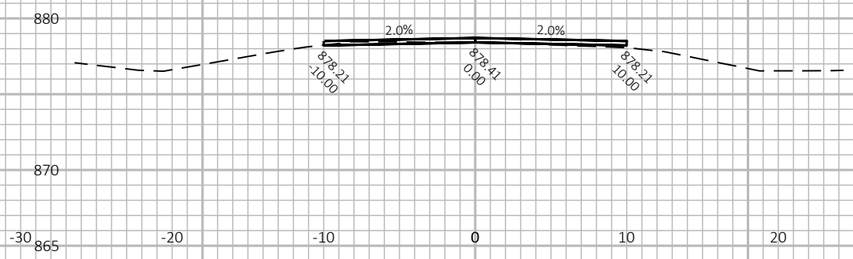


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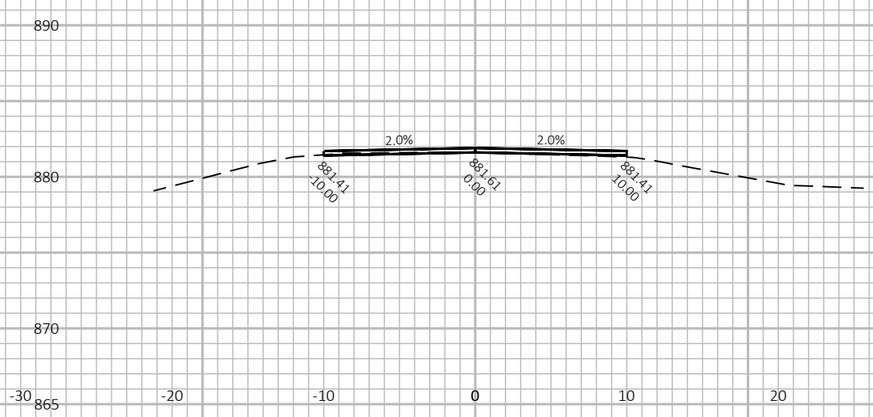
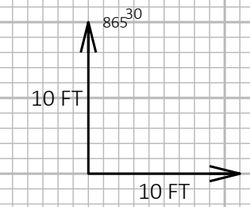



106+00




9

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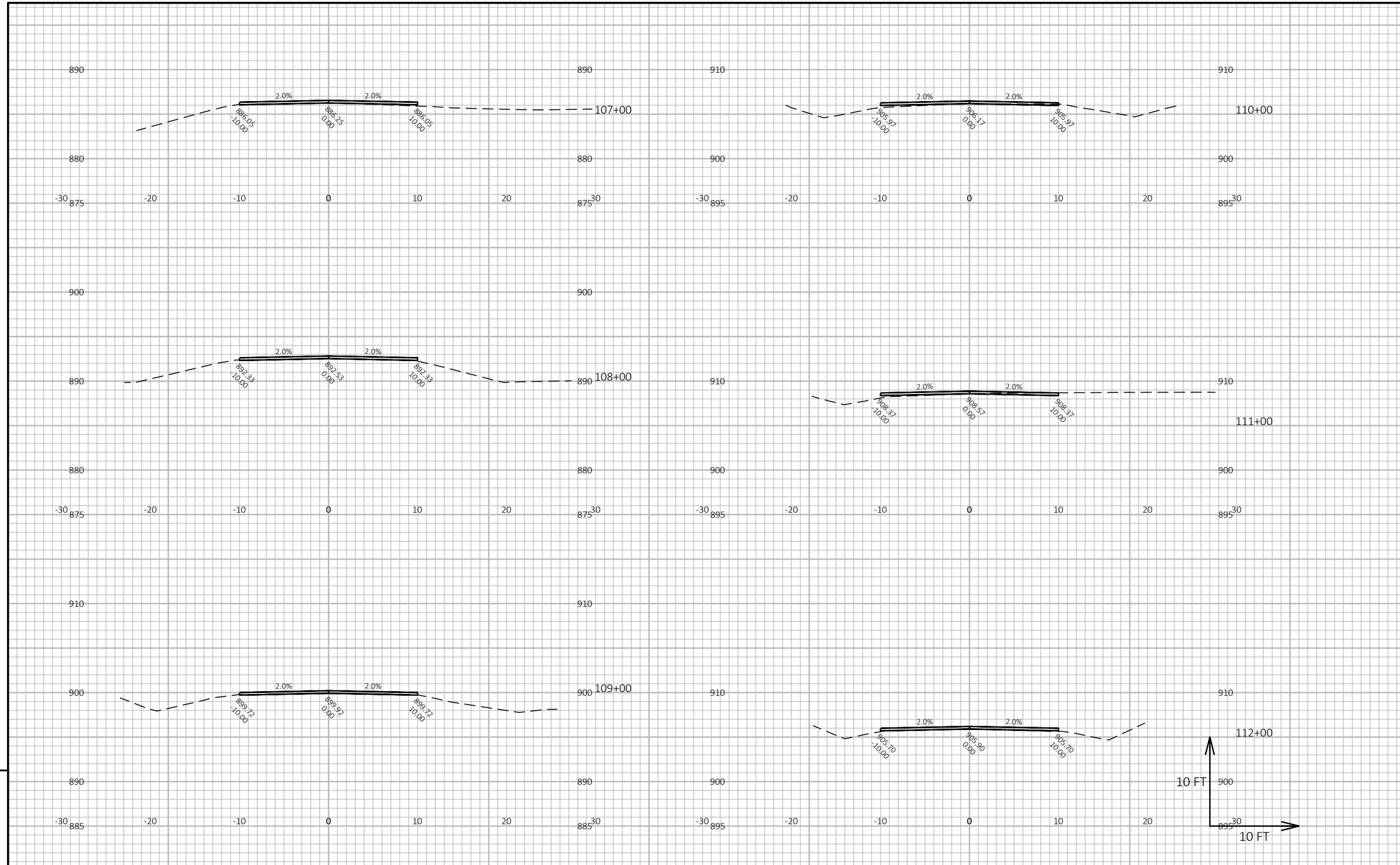
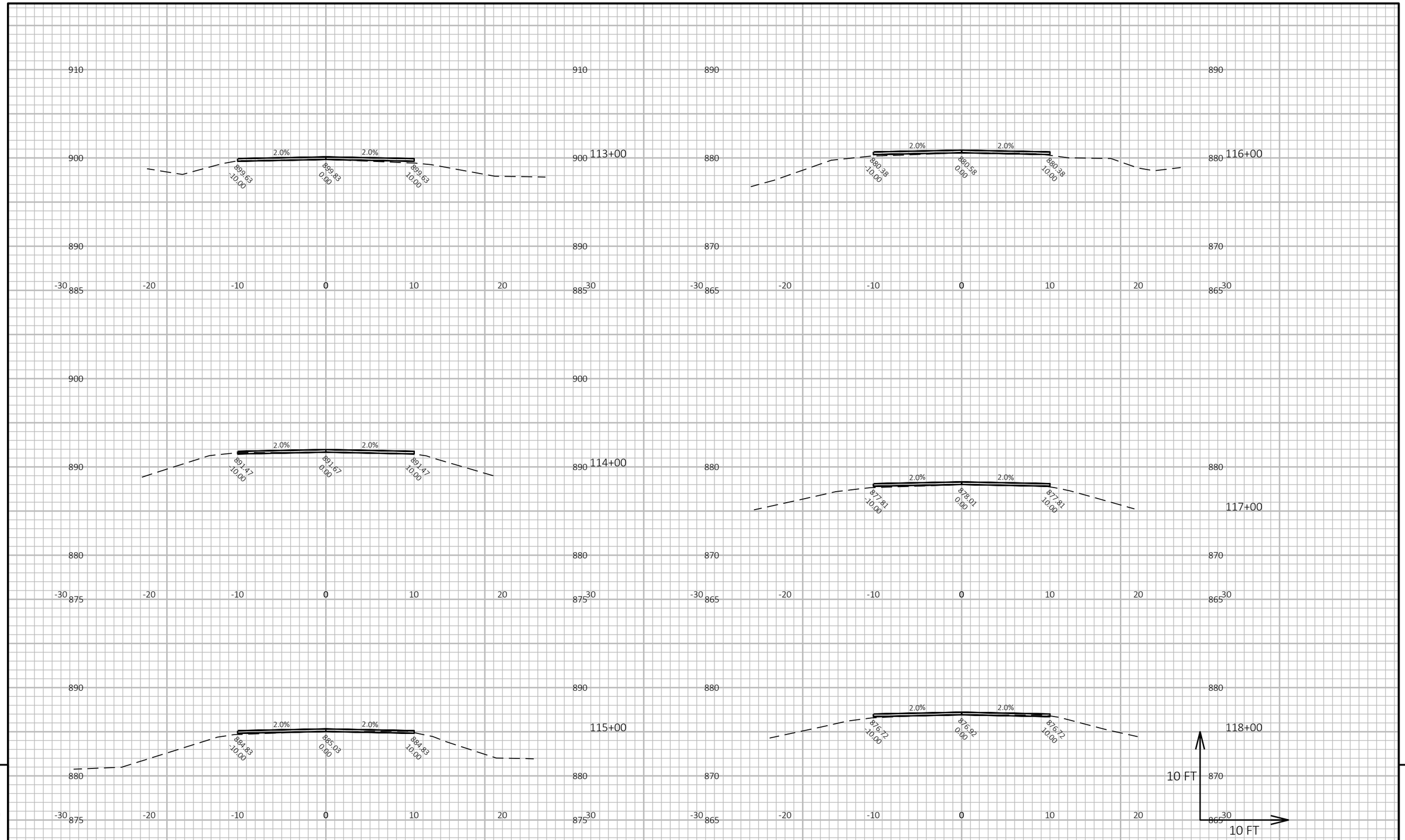
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 24 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01
PLOT DATE : 7/22/2022 2:29 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
**PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49




| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 25 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02
PLOT DATE : 7/22/2022 2:29 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
**PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

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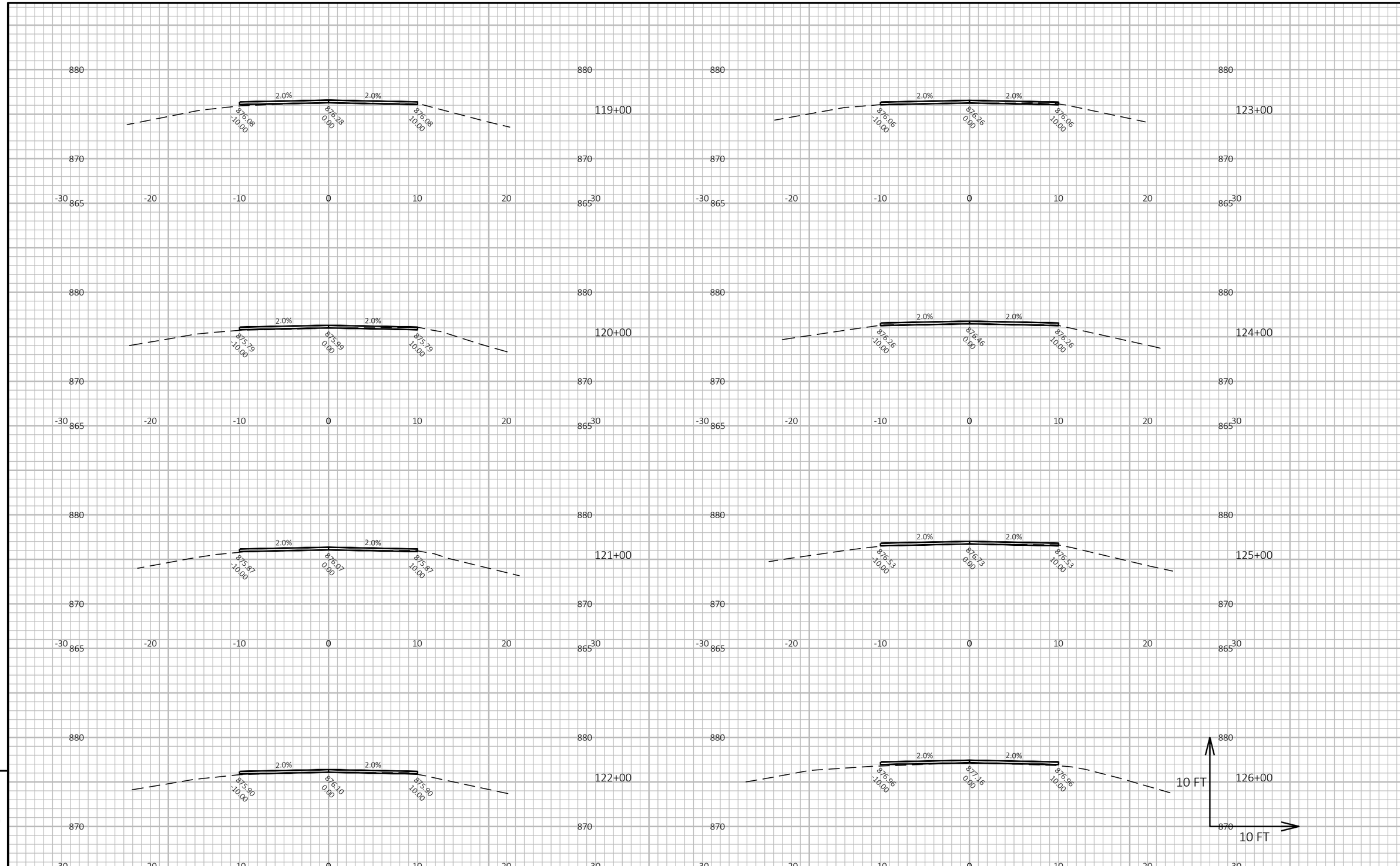
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 26 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 7/22/2022 2:29 PM PLOT BY : ARMAN KHAN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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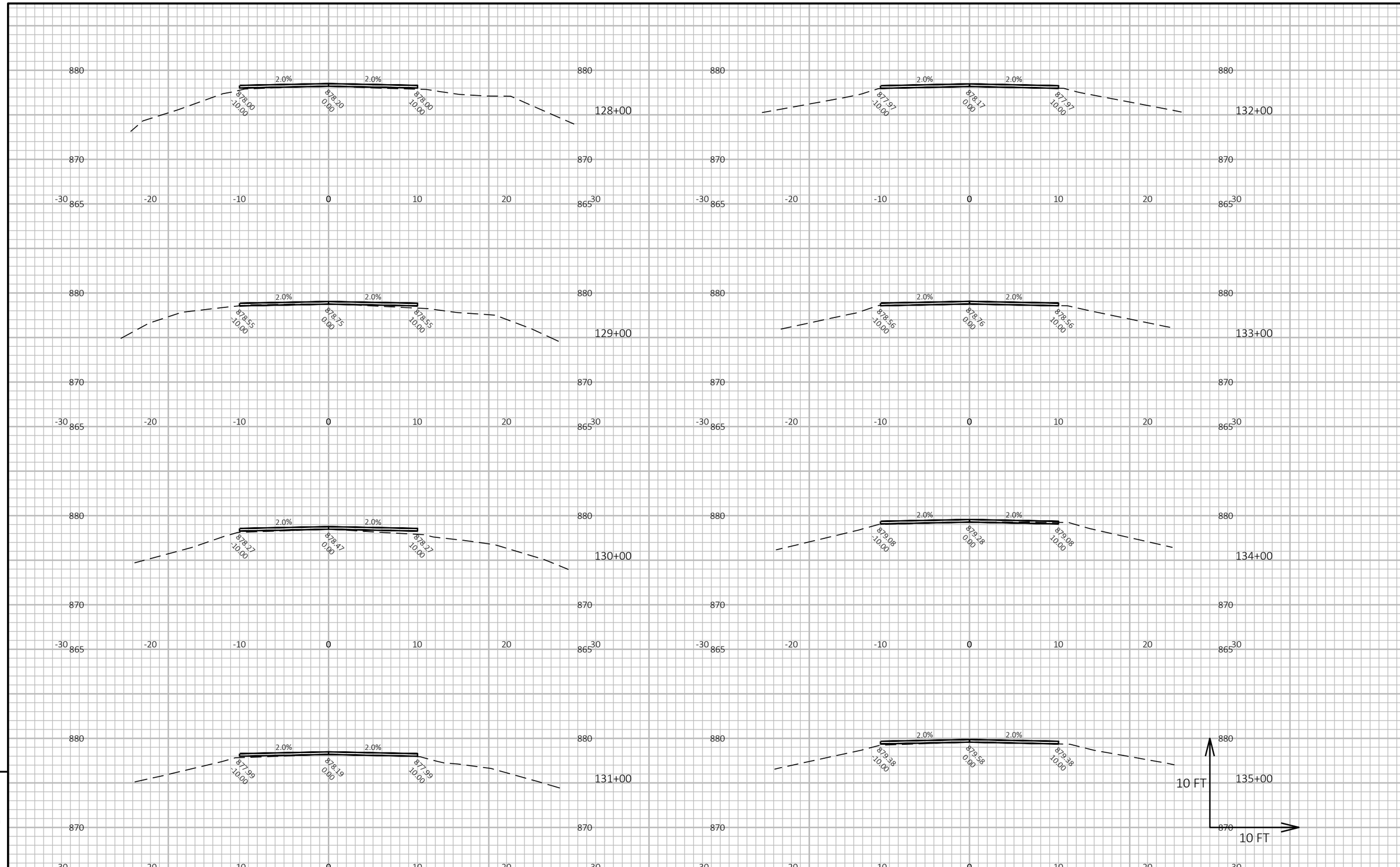
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 27 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04

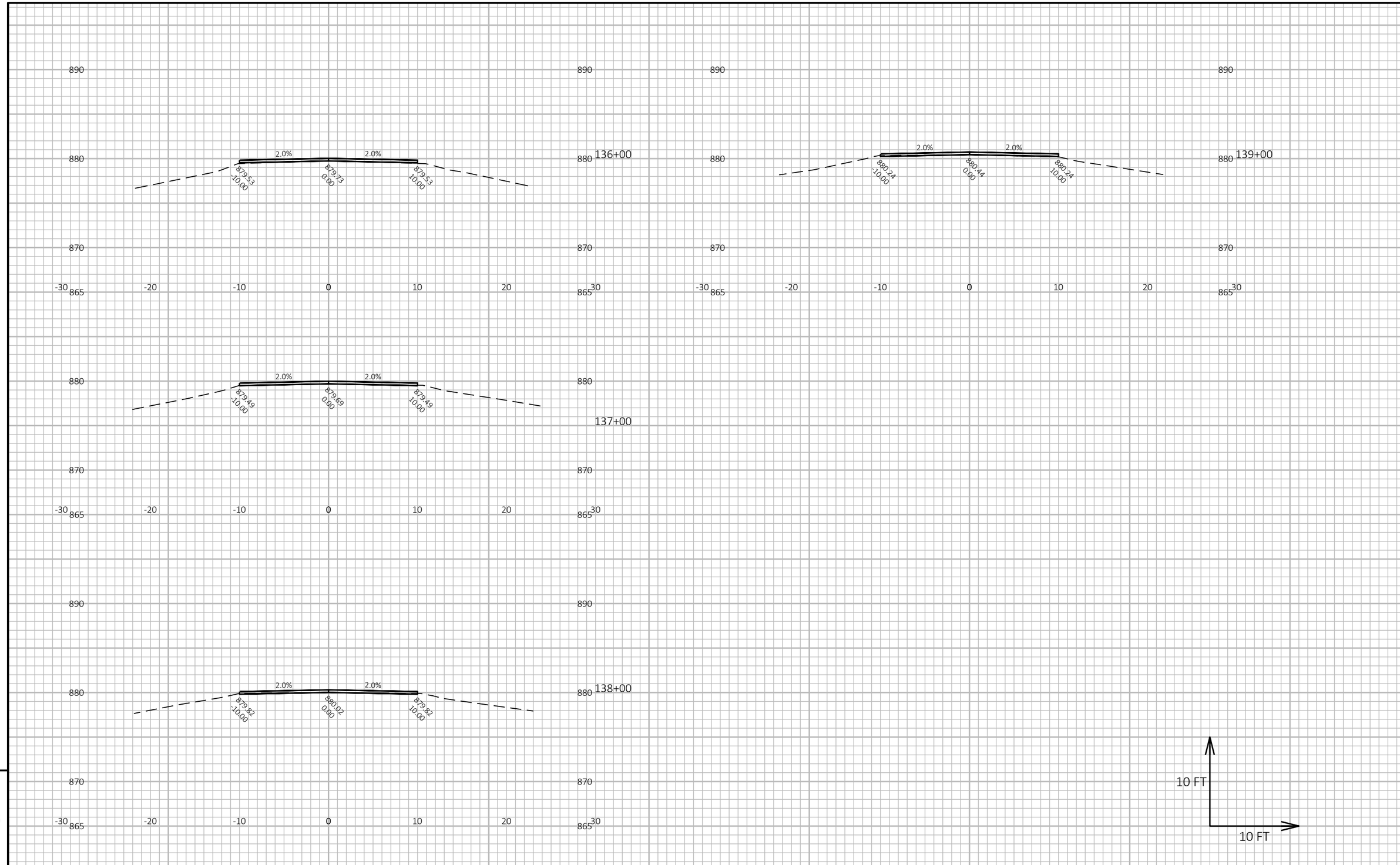
PLOT DATE : 7/22/2022 2:29 PM PLOT BY : ARMAN KHAN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49




| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 28 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05
PLOT DATE : 7/22/2022 2:29 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
**PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49




| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 29 | E |
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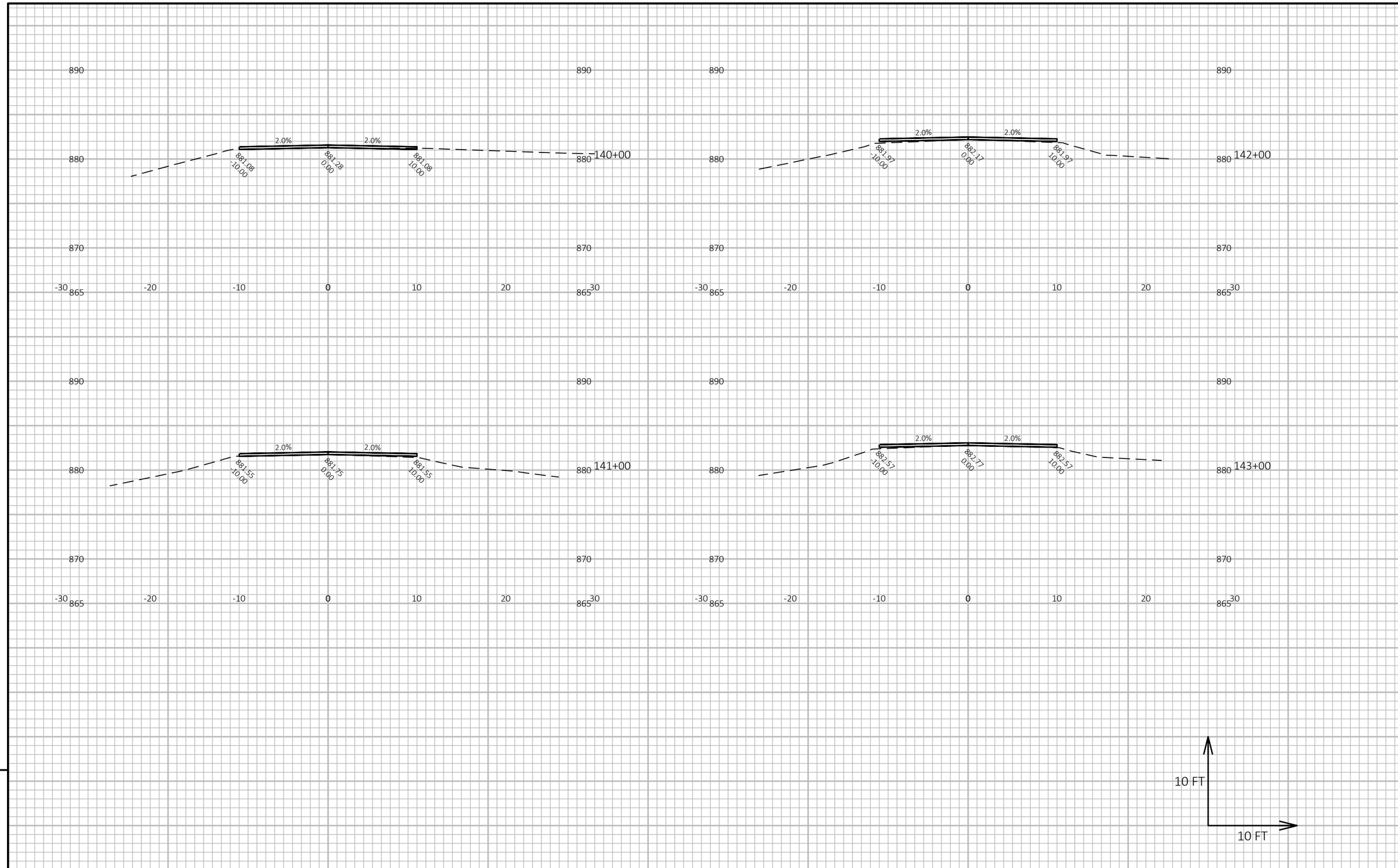
FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06
PLOT DATE : 7/22/2022 2:29 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
**PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

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9

| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 30 | E |
|---|---|---|---|---|---|

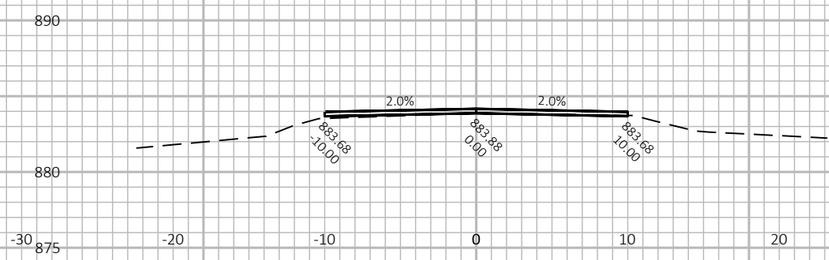
FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 7/22/2022 2:29 PM PLOT BY : ARMAN KHAN PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

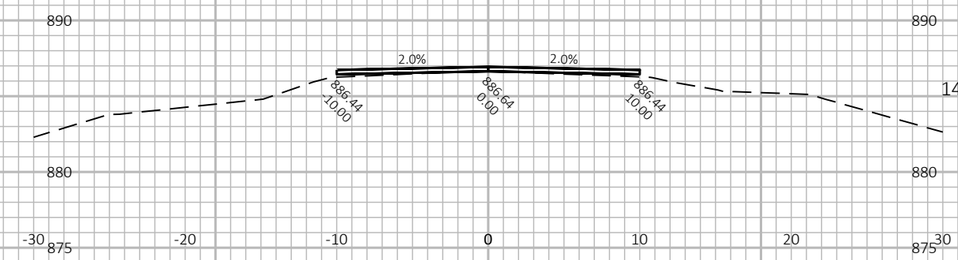
WISDOT/CADDS SHEET 49

144+00

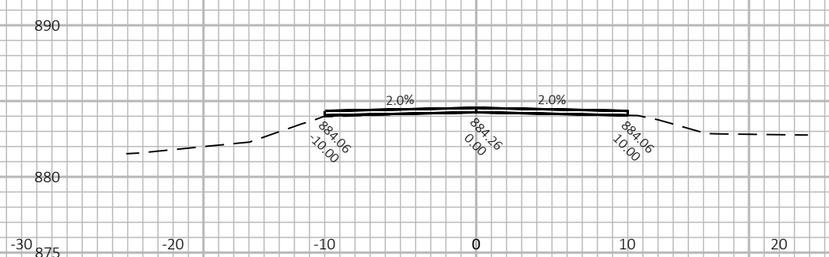
148+00




145+00




149+00

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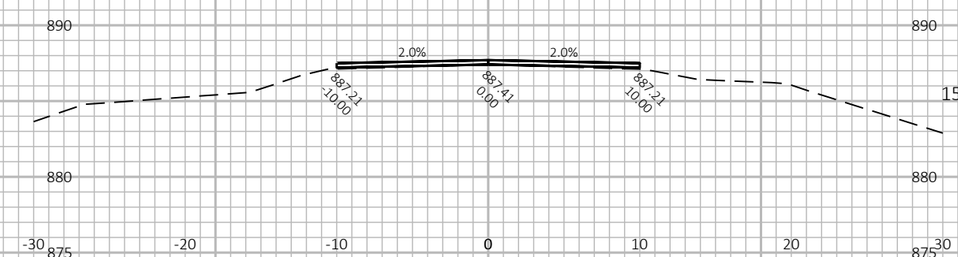


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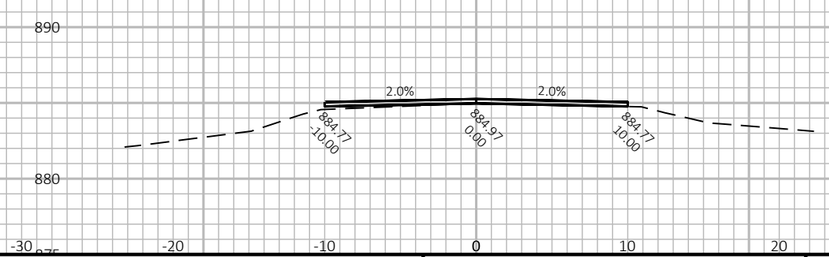


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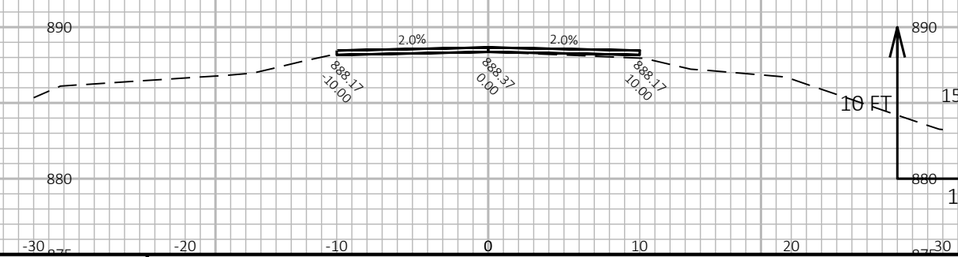


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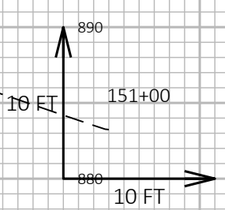


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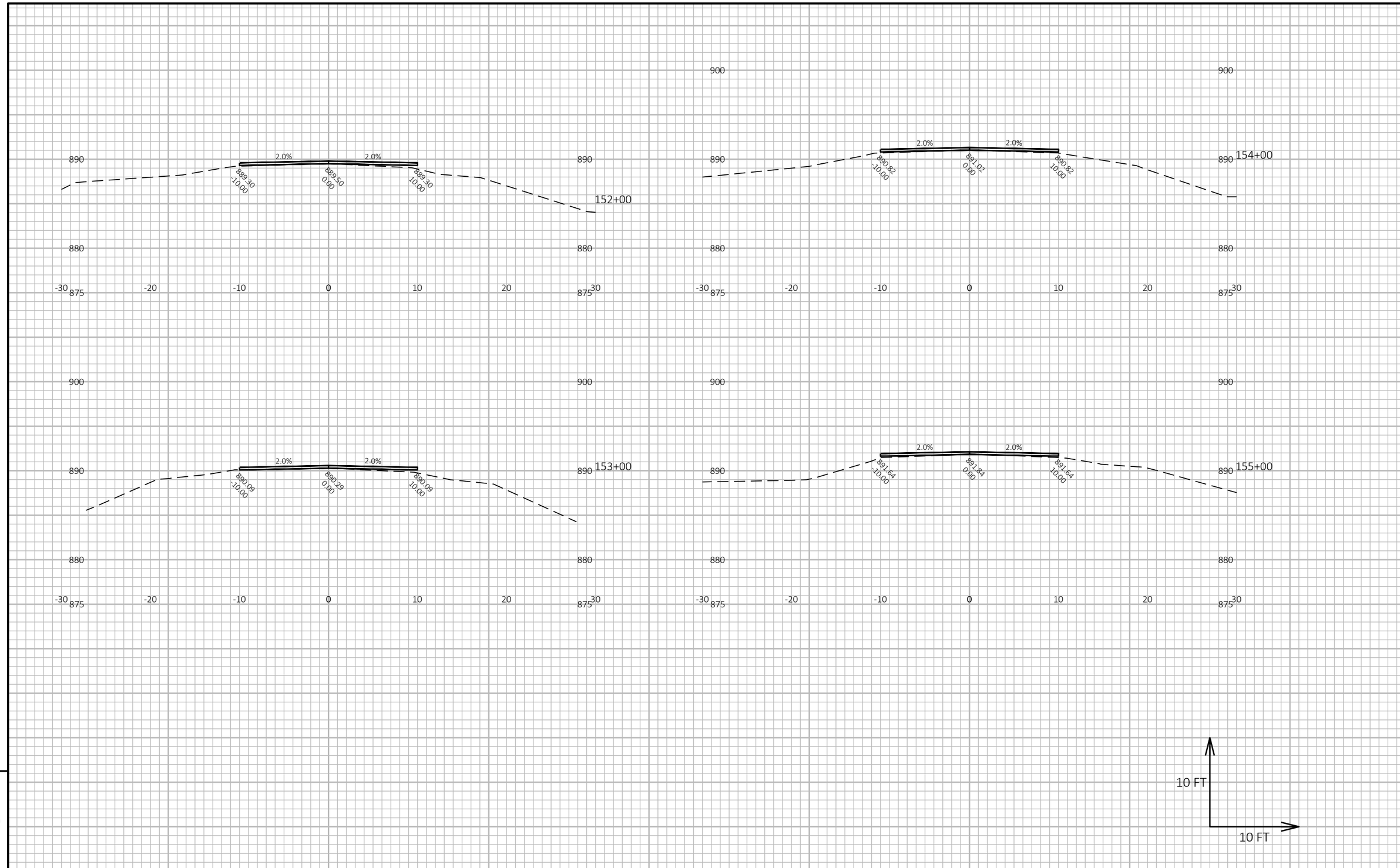
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 31 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 08
PLOT DATE : 7/22/2022 2:29 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
**PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

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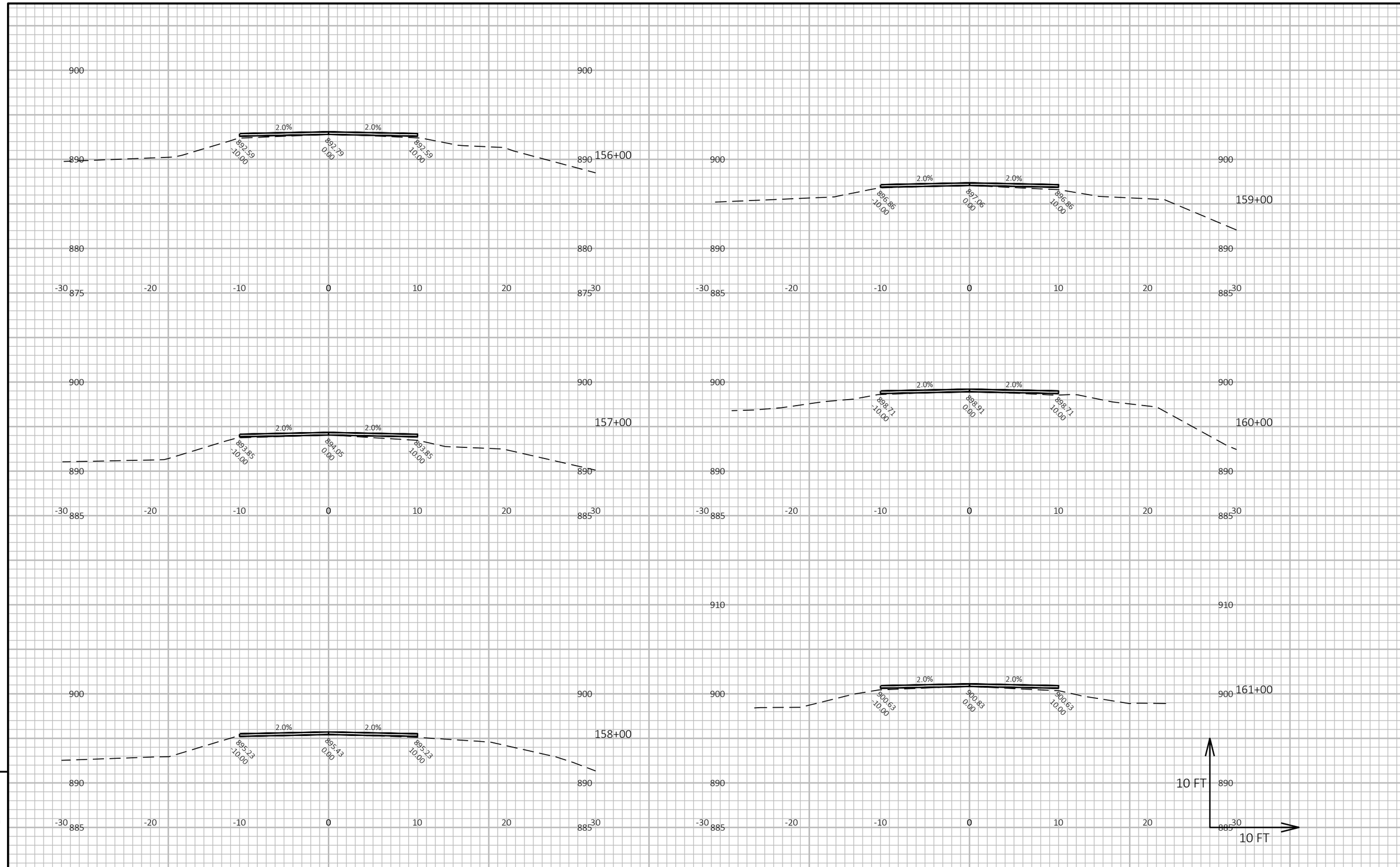
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 32 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 09

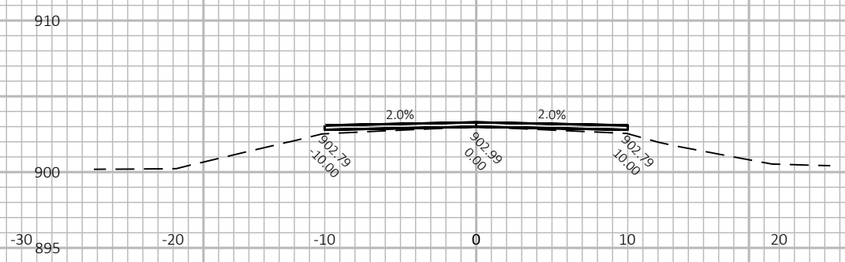
PLOT DATE : 7/22/2022 2:29 PM PLOT BY : ARMAN KHAN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

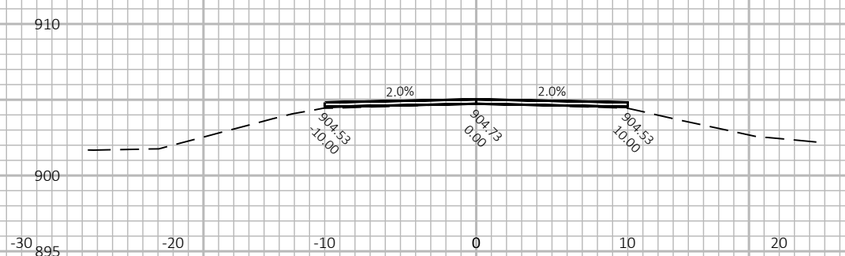



| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 33 | E |
|---|---|---|---|---|---|

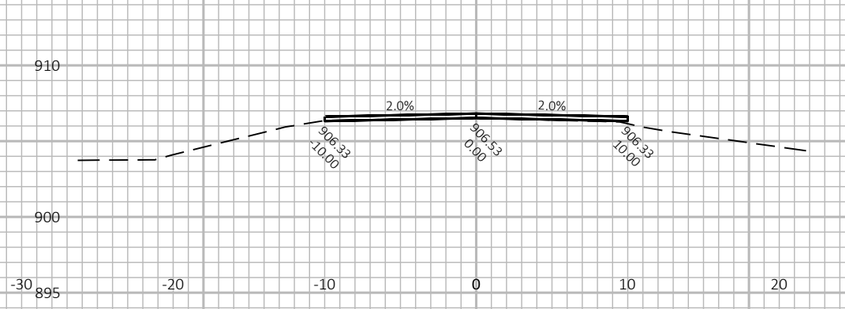
FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 10
PLOT DATE : 7/22/2022 2:29 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
**PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49




162+00

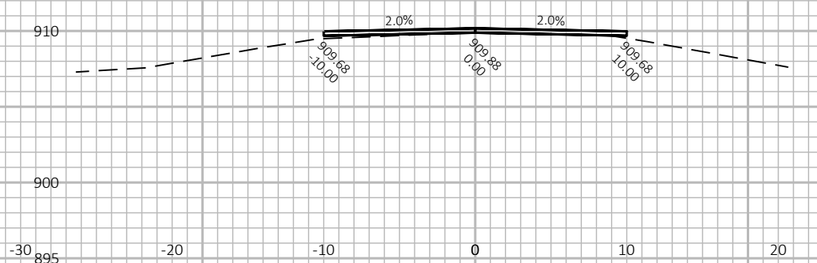



163+00

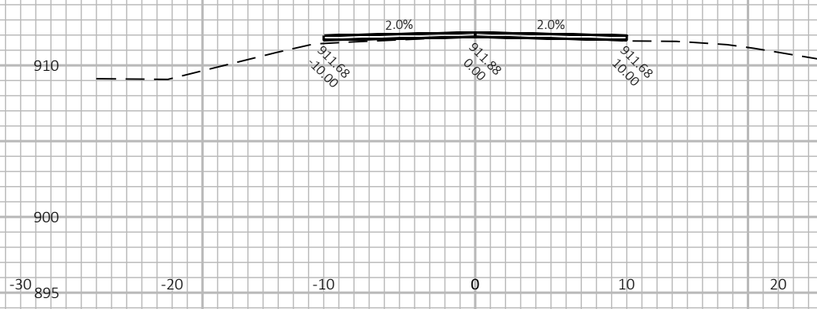



164+00

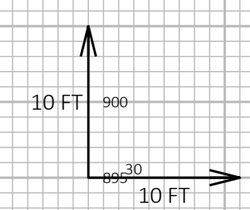
165+00




166+00




167+00

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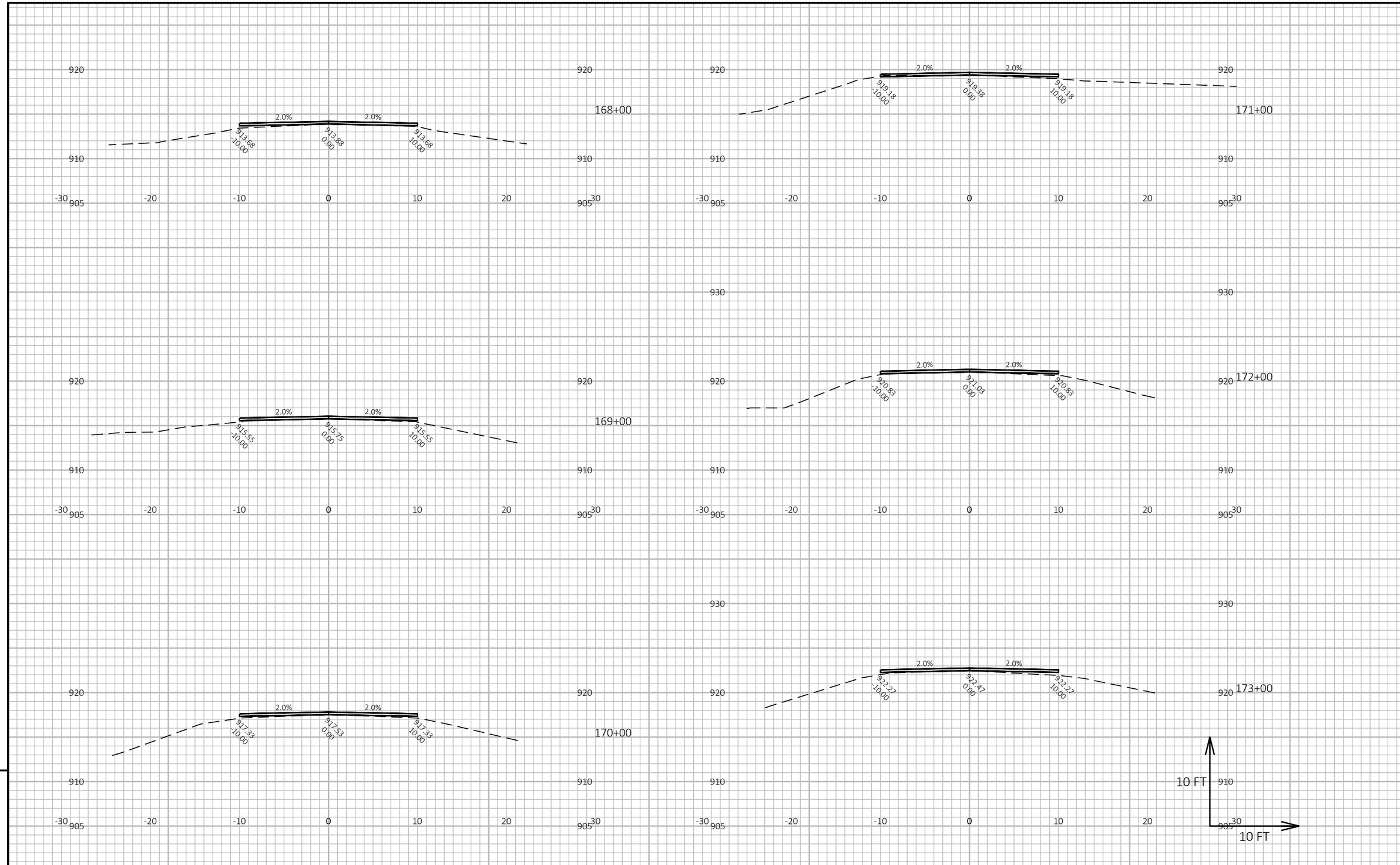
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 34 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 7/22/2022 2:29 PM PLOT BY : ARMAN KHAN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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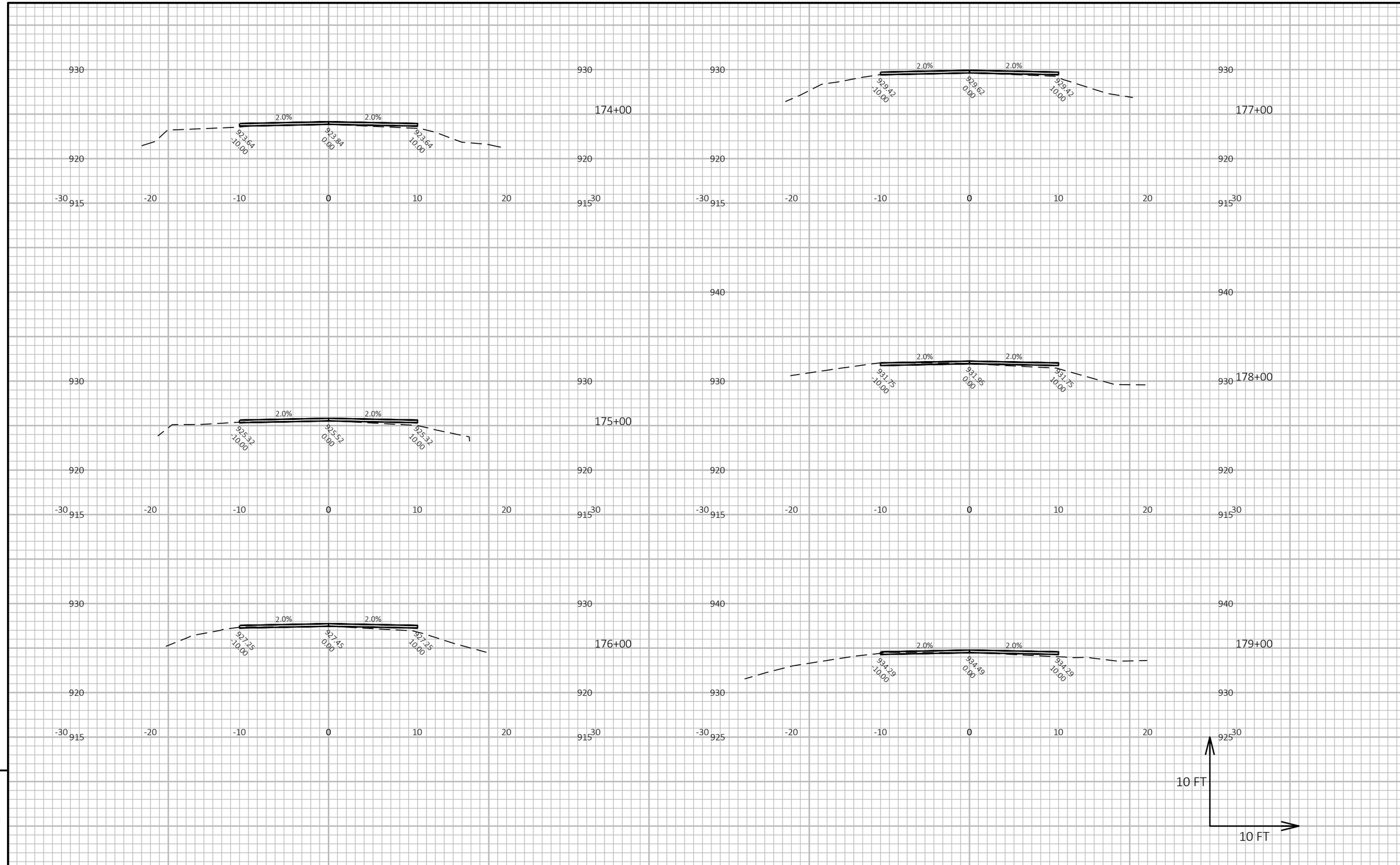
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 35 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 7/22/2022 2:29 PM PLOT BY : ARMAN KHAN PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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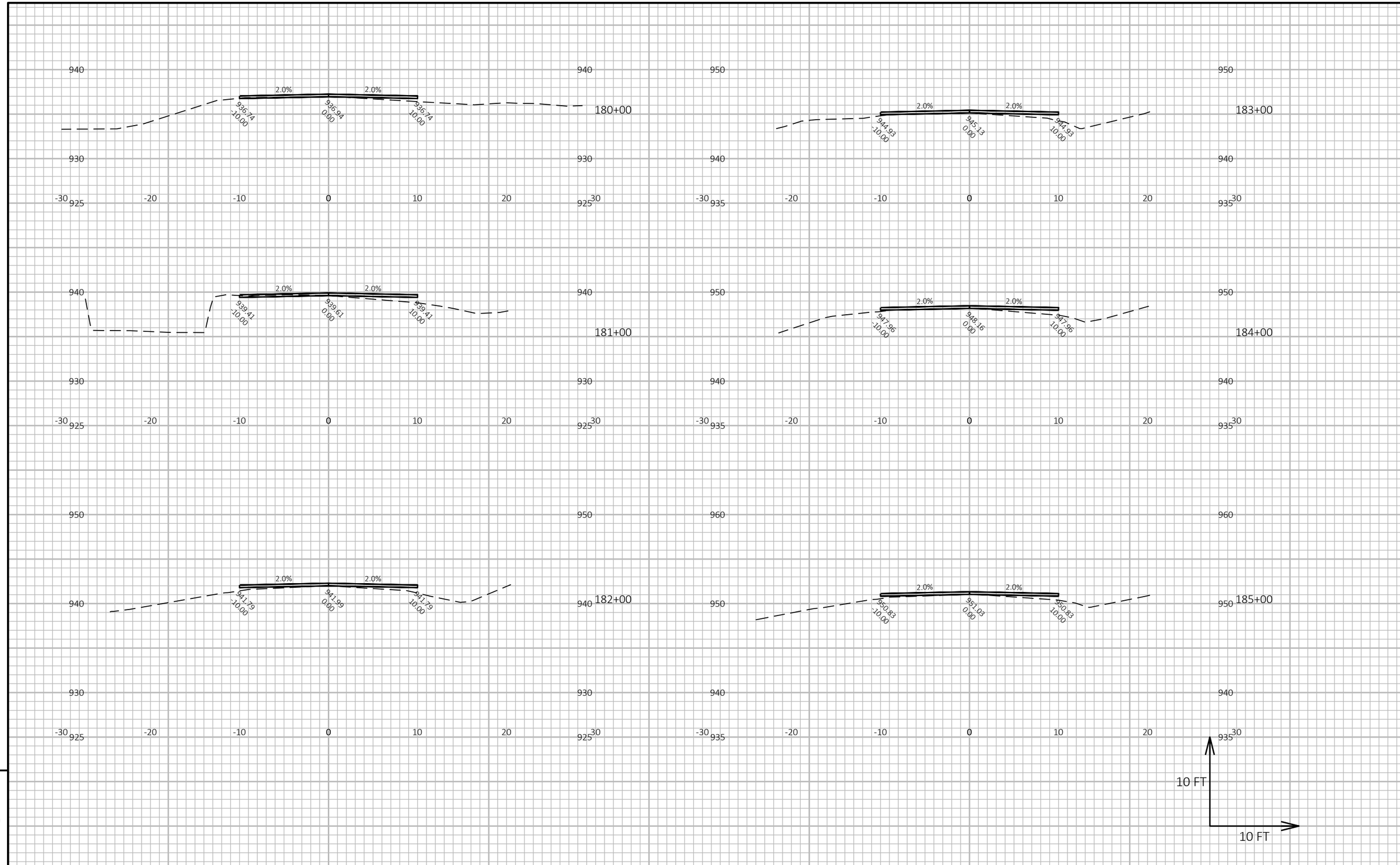
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 36 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 13
PLOT DATE : 7/22/2022 2:29 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
**PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

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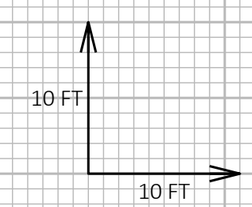
| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 37 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 14
PLOT DATE : 7/22/2022 2:29 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
**PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

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| PROJECT NO: 5716-00-75 | HWY: ALPINE ROAD | COUNTY: GREEN | CROSS SECTIONS: SECTION VIEW GROUP - 5 | SHEET 38 | E |
|---|---|---|---|---|---|

FILE NAME : \\KL1-FS02\DATA1\BROOKLYN, TOWN OF\5716-00-75 ALPINE ROAD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 15
PLOT DATE : 7/22/2022 2:29 PM
PLOT BY : ARMAN KHAN
PLOT NAME :
**PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

Notes

**Wisconsin Department of Transportation**

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov