

Will:

PROJECT ID:

1000-18-33

COUNTY:

VARIOUS

DECEMBER 2019

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 Plan |
| 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 = 122



DESIGN DESIGNATION

| | |
|--------------|---|
| A.A.D.T. | = |
| A.A.D.T. | = |
| D.H.V. | = |
| D.D. | = |
| T. | = |
| DESIGN SPEED | = |
| ESALS | = |

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' EB'

EXISTING CULVERT

PROPOSED CULVERT
(Box or Pipe)

COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

PROFILE

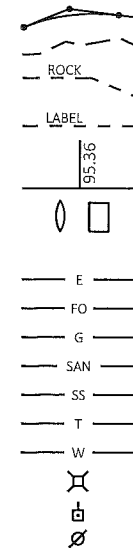
GRADE LINE
ORIGINAL GROUND
MARSH OR ROCK PROFILE
(To be noted as such)
SPECIAL DITCH

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

ELECTRIC
FIBER OPTIC
GAS
SANITARY SEWER
STORM SEWER
TELEPHONE
WATER
UTILITY PEDESTAL
POWER POLE
TELEPHONE POLE



STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

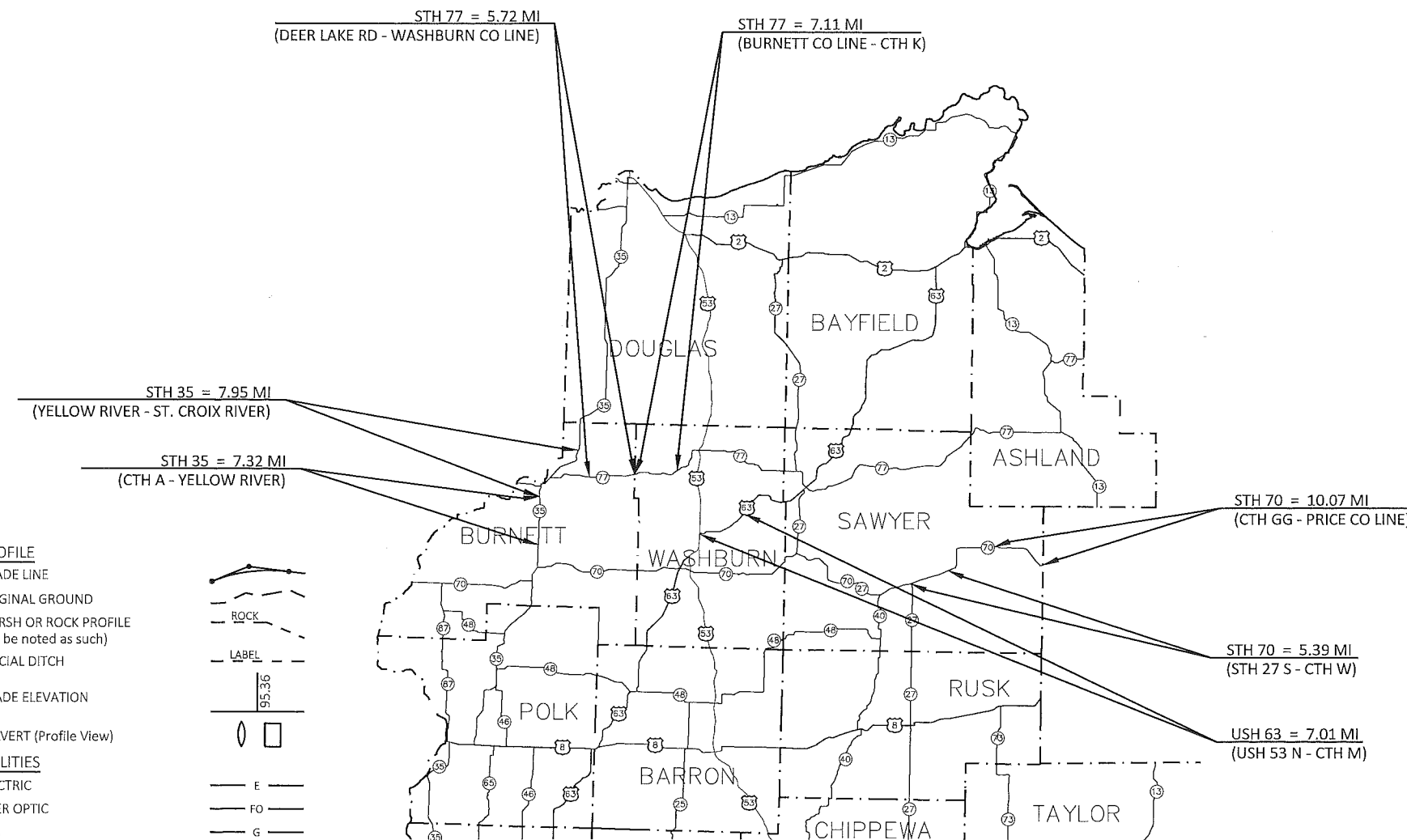
PLAN OF PROPOSED IMPROVEMENT

SFY 2020 CHIP SEALS - NORTH

NORTHWEST REGIONS - VARIOUS HIGHWAYS

| STATE PROJECT | FEDERAL PROJECT | |
|---------------|-----------------|----------|
| | PROJECT | CONTRACT |
| 1000-18-33 | | |
| | | |
| | | |
| | | |

| |
|----------------------|
| STATE PROJECT NUMBER |
| 1000-18-33 |



LAYOUT

SCALE 0 25 MI

TOTAL NET LENGTH OF CENTERLINE = 50.57 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), COUNTY COUNTY, NAD83 [YEAR, 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 [YEAR, GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

| | |
|---------------------|--------------------|
| PREPARED BY | |
| Surveyor | N/A |
| Designer | PAULA GROOM |
| Project Manager | PAULA GROOM |
| Regional Examiner | JENNIFER OLDENBURG |
| Regional Supervisor | JAMES KOENIG |

APPROVED FOR THE DEPARTMENT
DATE: 10/23/17 [Signature]
(Signature)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

GENERAL NOTES

THE ENGINEER WILL DETERMINE ANY DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN.

ALL WASTE MATERIAL RESULTING FROM THE VARIOUS OPERATIONS UNDER THIS CONTRACT SHALL BE COLLECTED TO E PROPERLY DISPOSED OF PRIOR TO REOPENING LANES TO TRAFFIC.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

WHEN AN EXISTING STOP SIGN/ SUPPORT IS TO BE REMOVED AND NEW STOP SIGN/ SUPPORT ERECTED. THE WORK SHALL BE DONE CONCURRENTLY. FOR ALL OTHER SIGNS THE REMOVAL OF THE EXISTING SIGN/ SUPPORT AND ERECTION OF THE NEW SIGN/ SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POST SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

NORTHWEST REGION TRAFFIC CONTACT

CHLOE ANDERSON
WISCONSIN DEPARTMENT OF
TRANSPORTATION
5009 USH 53 SOUTH
EAU CLAIRE, WI 54701
PHONE: (715) 855-7672
CELL: (715) 577-4493

NORTHWEST REGION DNR CONTACTS

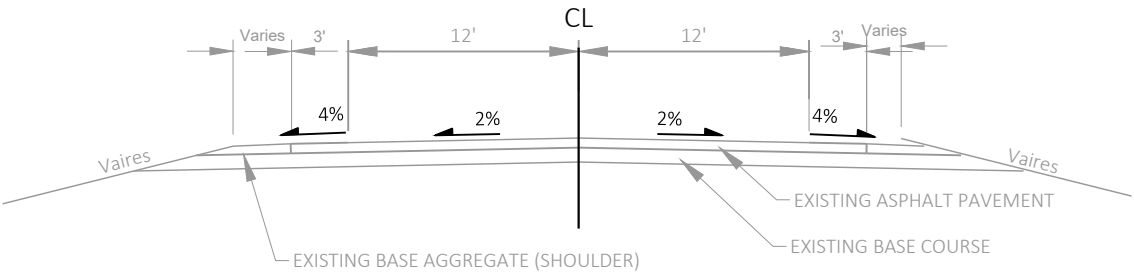
SHAWN HASELEU (SAWYER & WASHBURN COUNTY)
DNR NORTHERN REGION HQ
810 WEST MAPLE STREET
SPOONER, WI 54801
PHONE: (715) 635-4228

AMY CRONK (BURNETT COUNTY)
DNR NORTHERN REGION HQ
810 WEST MAPLE STREET
SPOONER, WI 54801
PHONE: (715) 635-4229

DIGGERSHOTLINE

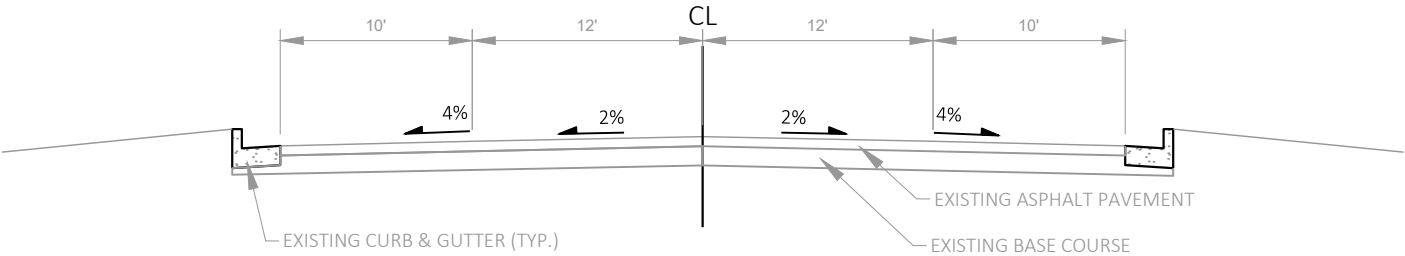
Dial 811 or (800)242-8511

www.DiggersHotline.com

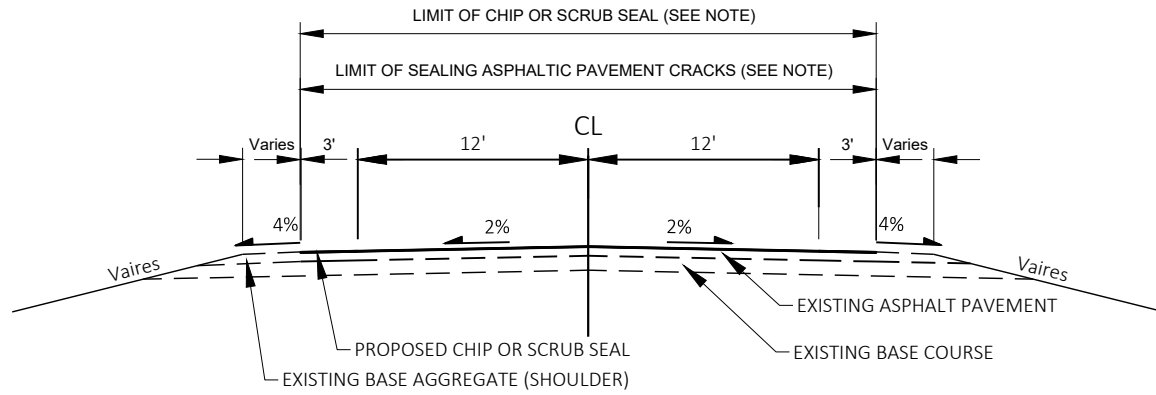


TYPICAL EXISTING SECTION - RURAL

- STH 35 - NORTH
- STA 0+00 - 418+000
- STH 35 - SOUTH
- STA 276+00 - 668+84
- STH 70 EAST
- STA 0+00 - 268+30
- STH 70 - WEST
- STA 0+00 - 515+53
- STH 77 - BURNETT
- STA 0+00 - 317+64
- STH 77 - WASHBURN
- STA 0+00 - 375+00
- USH 63
- STA 0+00 - 391+80

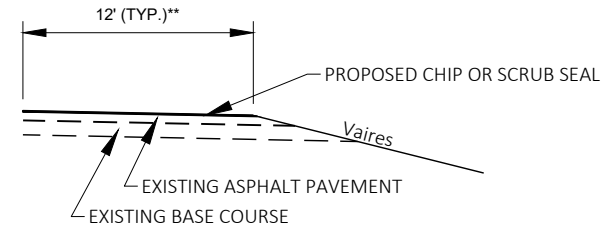


TYPICAL EXISTING SECTION - URBAN
USH 63 STA 391+40 - 394+00



PROPOSED TYPICAL SECTION - RURAL

STH 35 - NORTH
STA 0+00 - 418+00
STH 35 - SOUTH
STA 276+00 - 668+84
STH 70 EAST
STA 0+00 - 268+30
STH 70 - WEST
STA 0+00 - 515+53
STH 77 - BURNETT
STA 0+00 - 317+64
STH 77 - WASHBURN
STA 0+00 - 375+00
USH 63
STA 0+00 - 391+80



PROPOSED TYPICAL SECTION - TURN & BYPASS LANES

NOTE:

SEAL ASPHALTIC PAVEMENT CRACKS PRIOR TO PLACING CHIP OR SCRUB SEAL.

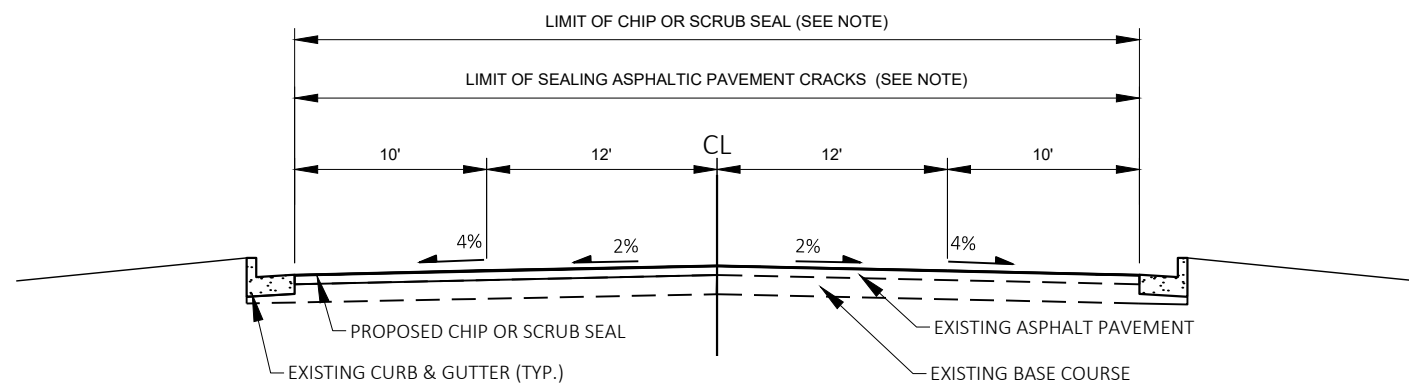
CHIP/ SCRUB/ FOG SEAL FROM EDGE OF ASPHALTIC SHOULDER TO OUTSIDE EDGE OF ASPHALTIC SHOULDER.

CHIP & FOG SEAL SEGMENTS

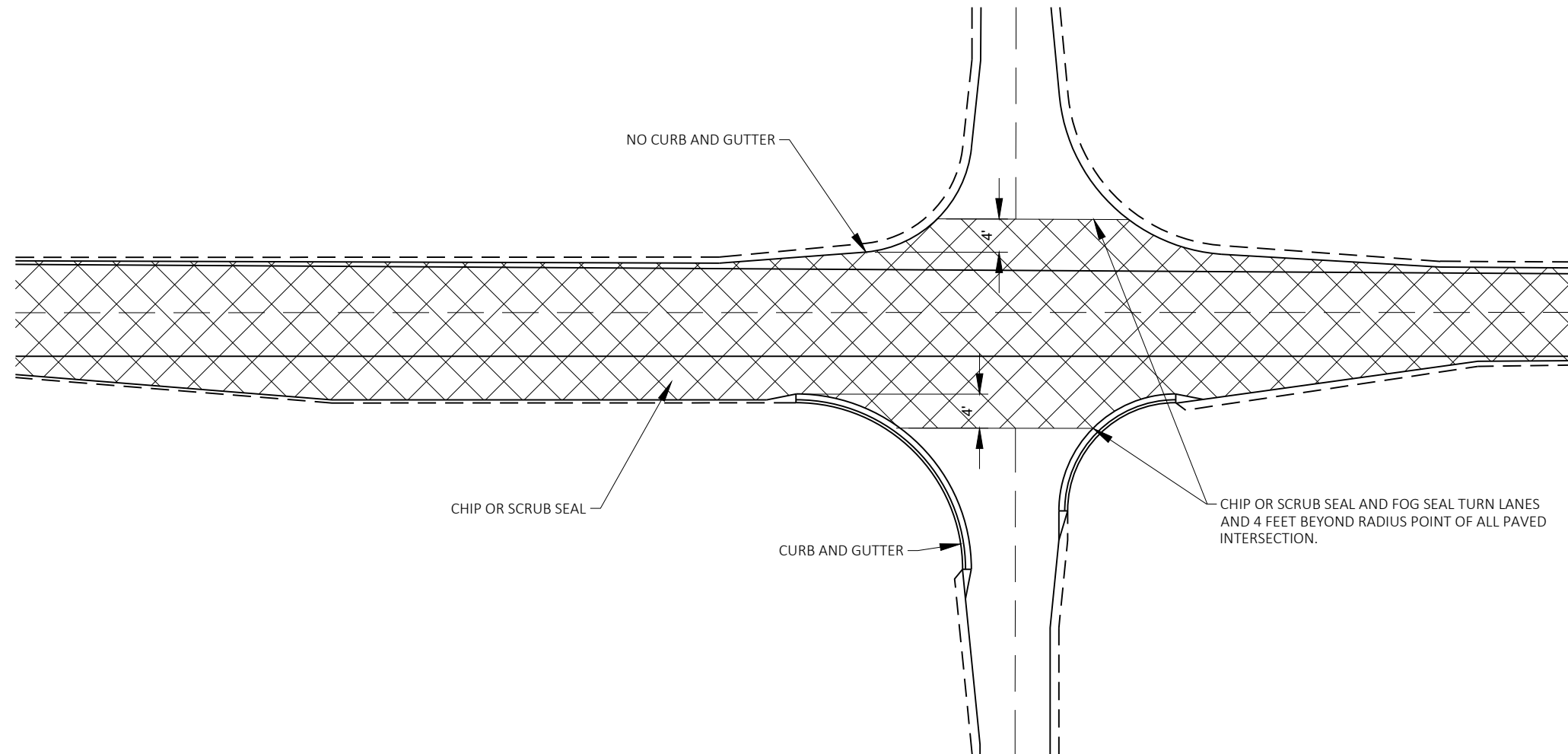
STH 70 - EAST STA 0+00 - 286+30
STH 70 - WEST STA 0+00 - 515+53
USH 63 STA 0+00 - 394+00

SCRUB & FOG SEAL SEGMENTS

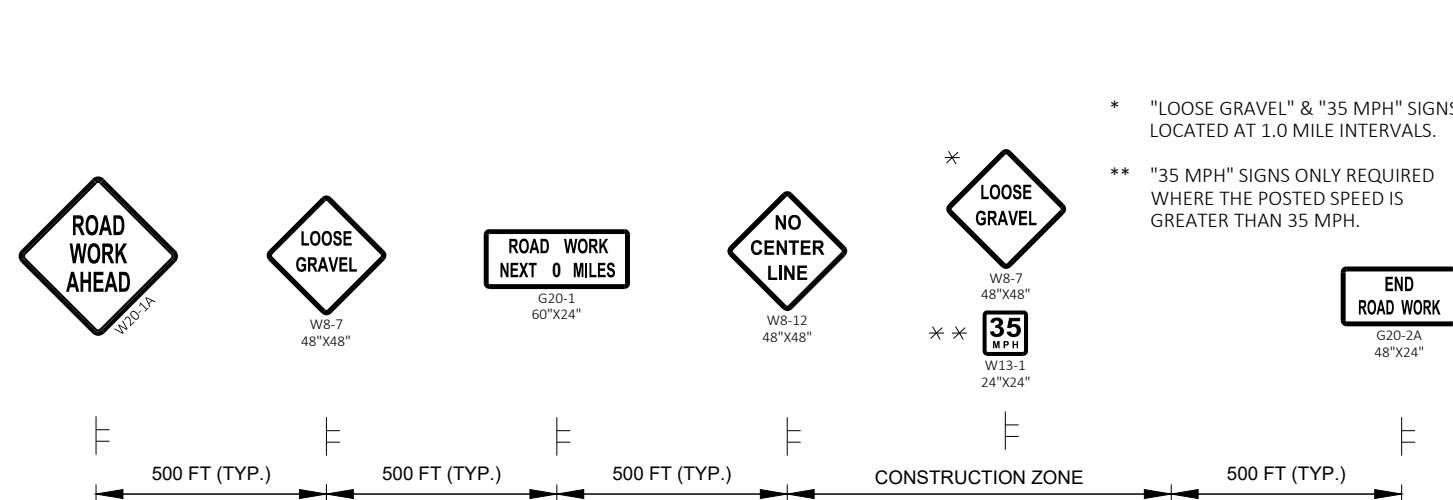
STH 35 - NORTH STA 0+00 - 418+00
STH 35 - SOUTH STA 276+00 - 668+84
STH 77 - BURNETT STA 0+00 - 317+64
STH 77 - WASHBURN STA 0+00 - 375+00



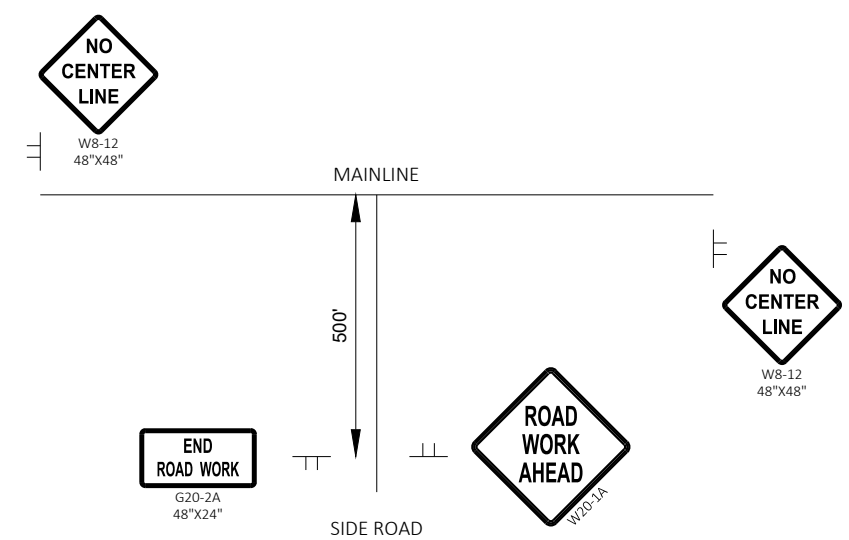
PROPOSED TYPICAL SECTION - URBAN USH 63 STA 391+40 - 394+00



CHIP OR SCRUB SEAL LIMITS AT INTERSECTION DETAIL



MAINLINE TRAFFIC CONTROL SIGN LAYOUT DETAIL



SIDE ROAD TRAFFIC CONTROL SIGN LAYOUT DETAIL

Estimate Of Quantities

| 1000-18-33 | | | | | |
|------------|----------|---|------|-------------|-------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0002 | 213.0100 | Finishing Roadway (project) 01. 1000-18-33 | EACH | 1.000 | 1.000 |
| 0004 | 618.0100 | Maintenance And Repair of Haul Roads (project) 01. 1000-18-33 | EACH | 1.000 | 1.000 |
| 0006 | 619.1000 | Mobilization | EACH | 1.000 | 1.000 |
| 0008 | 646.1005 | Marking Line Paint 4-Inch | LF | 931,933.000 | 931,933.000 |
| 0010 | 646.3005 | Marking Line Paint 8-Inch | LF | 6,536.000 | 6,536.000 |
| 0012 | 646.5005 | Marking Arrow Paint | EACH | 2.000 | 2.000 |
| 0014 | 646.5105 | Marking Word Paint | EACH | 2.000 | 2.000 |
| 0016 | 646.7105 | Marking Diagonal Paint 12-Inch | LF | 588.000 | 588.000 |
| 0018 | 649.0105 | Temporary Marking Line Paint 4-Inch | LF | 310,547.000 | 310,547.000 |
| 0020 | 649.0770 | Temporary Marking Raised Pavement Marker Type II | EACH | 6,550.000 | 6,550.000 |
| 0022 | SPV.0060 | Special 01. Traffic Control | EACH | 1.000 | 1.000 |
| 0024 | SPV.0125 | Special 01. Sealing Asphaltic Pavement Cracks | MI | 50.600 | 50.600 |
| 0026 | SPV.0180 | Special 01. Chip Seal | SY | 406,051.000 | 406,051.000 |
| 0028 | SPV.0180 | Special 02. Scrub Seal | SY | 547,252.000 | 547,252.000 |
| 0030 | SPV.0180 | Special 03. Fog Seal | SY | 953,303.000 | 953,303.000 |

PAVEMENT MARKING

| CAT | STATION | TO | STATION | LOCATION | 646.1005 | 646.1005 | 646.3005 | 649.0105 | REMARKS |
|-------|---------|----|---------|-------------------|------------|------------|------------|--------------|----------|
| | | | | | MARKING | MARKING | MARKING | TEMPORARY | |
| | | | | | LINE PAINT | LINE PAINT | LINE PAINT | MARKING LINE | |
| | | | | | 4-INCH | 4-INCH | 8-INCH | PAINT 4-INCH | |
| | | | | | (YELLOW) | (WHITE) | (WHITE) | (YELLOW) | |
| | | | | | LF | LF | LF | LF | |
| 0010 | 0+00 | - | 418+00 | STH 35 - NORTH | 74,796 | 141,312 | 961 | 68,088 | Burnett |
| 0070 | 276+00 | - | 668+84 | STH 35 - SOUTH | 55,804 | 78,818 | 4,136 | 52,221 | Burnett |
| 0040 | 0+00 | - | 286+30 | STH 70 - EAST | 25,386 | 54,302 | - | 21,303 | Sawyer |
| 0030 | 0+00 | - | 515+53 | STH 70 - WEST | 57,634 | 104,165 | - | 50,639 | Sawyer |
| 0020 | 0+00 | - | 317+64 | STH 77 - BURNETT | 42,258 | 58,802 | 555 | 37,918 | Burnett |
| 0050 | 0+00 | - | 375+00 | STH 77 - WASHBURN | 57,361 | 75,320 | 555 | 54,266 | washburn |
| 0060 | 0+00 | - | 394+00 | USH 63 | 30,210 | 75,765 | 329 | 26,112 | washburn |
| TOTAL | | | | | 343,449 | 588,484 | 6,536 | 310,547 | |

MARKING ARROW
PAINT

| CAT | STATION | TO | STATION | LOCATION | 646.5005 EACH | REMARKS |
|-------|---------|----|---------|----------------|------------------|---------|
| 0010 | 0+00 | - | 418+00 | STH 35 - NORTH | 2 | TYPE 2 |
| TOTAL | | | | | 2 | |

MARKING DIAGONAL PAINT 12-INCH

| CAT | STATION | TO | STATION | LOCATION | 646.7105 LF | REMARKS |
|-------|---------|----|---------|----------------|----------------|---------|
| 0010 | 0+00 | - | 418+00 | STH 35 - NORTH | 588 | YELLOW |
| TOTAL | | | | | 588 | |

MARKING WORD PAINT

| CAT | STATION | TO | STATION | LOCATION | 646.5105 EACH | REMARKS |
|-------|---------|----|---------|----------------|------------------|---------|
| 0010 | 0+00 | - | 418+00 | STH 35 - NORTH | 2 | "ONLY" |
| TOTAL | | | | | 2 | |

TEMPORARY MARKING
RAISED PAVEMENT MARKER
TYPE II

| CAT | STATION | TO | STATION | LOCATION | 649.0770 EACH | REMARK |
|-------|---------|----|---------|-------------------|------------------|----------|
| 0010 | 0+00 | - | 418+00 | STH 35 - NORTH | 1,300 | Burnett |
| 0070 | 276+00 | - | 668+84 | STH 35- SOUTH | 1,100 | Burnett |
| 0040 | 0+00 | - | 286+30 | STH 70 - EAST | 575 | Sawyer |
| 0030 | 0+00 | - | 515+53 | STH 70 - WEST | 1,100 | Sawyer |
| 0020 | 0+00 | - | 317+64 | STH 77 - BURNETT | 625 | Burnett |
| 0050 | 0+00 | - | 375+00 | STH 77 - WASHBURN | 1,100 | washburn |
| 0060 | 0+00 | - | 394+00 | USH 63 | 750 | washburn |
| TOTAL | | | | | 6550 | |

SPV 0125.01 SEALING ASPHALTIC PAVEMENT CRACKS

| SPV.0125.01 | | | | | | |
|-------------|---------|----|---------|-------------------|------|----------|
| CAT | STATION | TO | STATION | LOCATION | MI | REMARKS |
| 0010 | 0+00 | - | 724+69 | STH 35 - NORTH | 8.0 | Burnett |
| 0070 | 0+00 | - | 668+84 | STH 35 - SOUTH | 7.3 | Burnett |
| 0040 | 0+00 | - | 286+30 | STH 70 - EAST | 5.4 | Sawyer |
| 0030 | 0+00 | - | 515+53 | STH 70 - WEST | 10.1 | Sawyer |
| 0020 | 0+00 | - | 317+64 | STH 77 - BURNETT | 5.7 | Burnett |
| 0050 | 0+00 | - | 641+00 | STH 77 - WASHBURN | 7.1 | Washburn |
| 0060 | 0+00 | - | 394+00 | USH 63 | 7.0 | Washburn |
| TOTAL | | | | | 50.6 | |

SPV 0180.01 CHIP SEAL

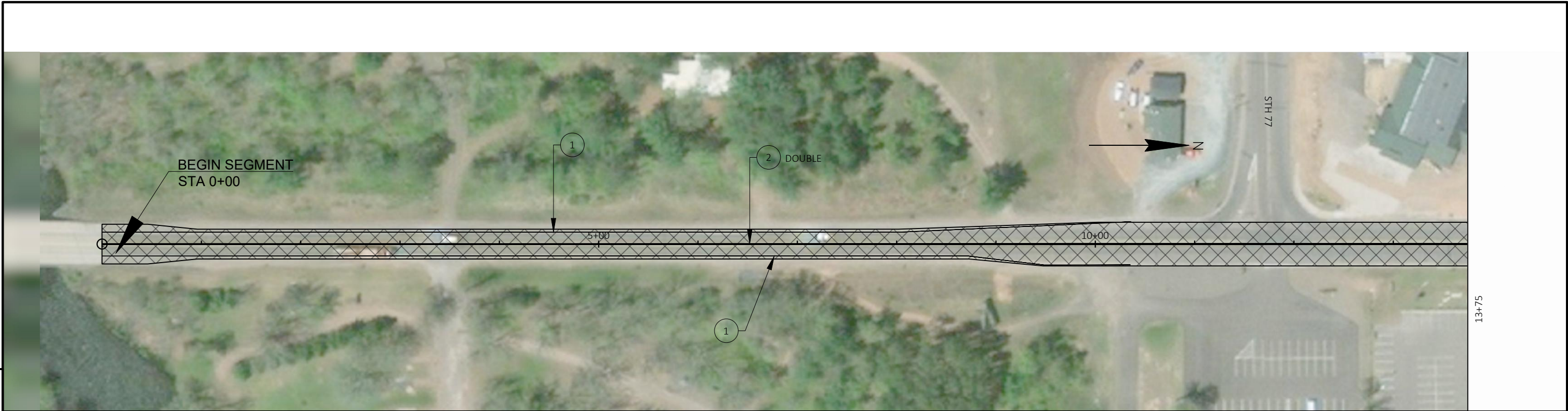
| SPV.0180.01 | | | | | | |
|-------------|---------|----|---------|---------------|---------|----------|
| CAT | STATION | TO | STATION | LOCATION | SY | REMARKS |
| 0040 | 0+00 | - | 286+30 | STH 70 - EAST | 97,746 | Sawyer |
| 0030 | 0+00 | - | 515+53 | STH 70 - WEST | 171,488 | Sawyer |
| 0060 | 0+00 | - | 394+00 | USH 63 | 136,817 | Washburn |
| TOTAL | | | | | 406,051 | |

SPV 0180.02 SCRUB SEAL

| SPV.0180.02 | | | | | | |
|-------------|---------|----|---------|-------------------|---------|----------|
| CAT | STATION | TO | STATION | LOCATION | SY | REMARKS |
| 0010 | 0+00 | - | 418+00 | STH 35 - NORTH | 146,890 | Burnett |
| 0070 | 276+00 | - | 668+84 | STH 35 - SOUTH | 155,710 | Burnett |
| 0020 | 0+00 | - | 317+64 | STH 77 - BURNETT | 108,561 | Burnett |
| 0050 | 0+00 | - | 375+00 | STH 77 - WASHBURN | 136,091 | Washburn |
| TOTAL | | | | | 547,252 | |

SPV 180.03 FOG SEAL

| SPV.0180.03 | | | | | | |
|-------------|---------|----|---------|-------------------|---------|----------|
| CAT | STATION | TO | STATION | LOCATION | SY | REMARKS |
| 0010 | 0+00 | - | 418+00 | STH 35 - NORTH | 146,890 | Burnett |
| 0070 | 276+00 | - | 668+84 | STH 35 - SOUTH | 155,710 | Burnett |
| 0040 | 0+00 | - | 286+30 | STH 70 - EAST | 97,746 | Sawyer |
| 0030 | 0+00 | - | 515+53 | STH 70 - WEST | 171,488 | Sawyer |
| 0020 | 0+00 | - | 317+64 | STH 77 - BURNETT | 108,561 | Burnett |
| 0050 | 0+00 | - | 375+00 | STH 77 - WASHBURN | 136,091 | Washburn |
| 0060 | 0+00 | - | 394+00 | USH 63 | 136,817 | Washburn |
| | 0+00 | - | 418+00 | | | |
| TOTAL | | | | | 953,303 | |

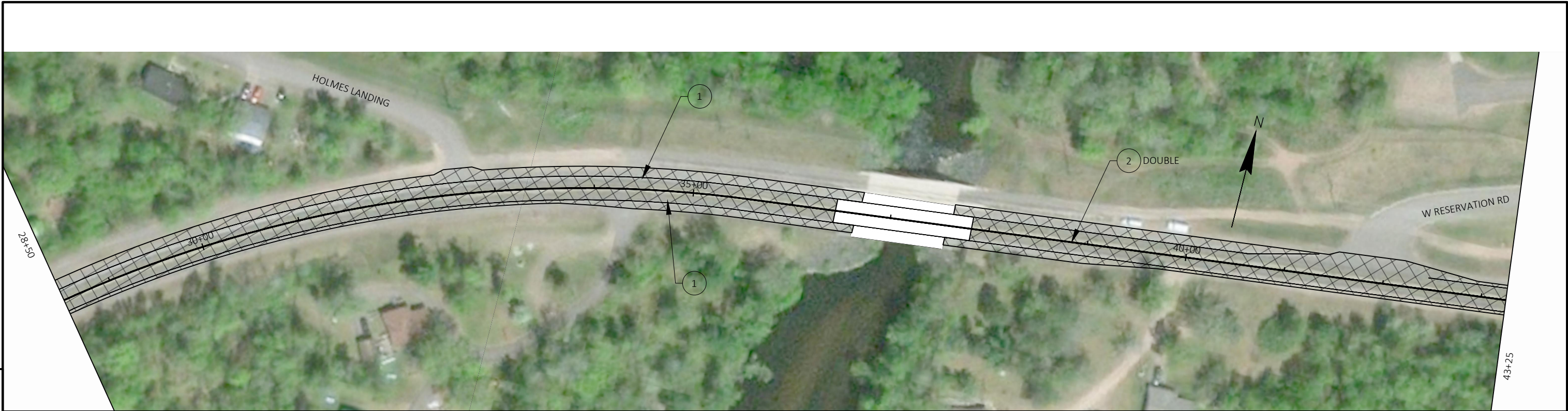


NOTES:
ALIGNMENTS AND PAVEMENT MARKINGS LOCATIONS ARE APPROXIMATE. ALL LOCATIONS SHOULD BE FIT TO FIELD CONDITIONS, AND VERIFIED BY THE PROJECT ENGINEER.

- LEGEND
- CHIP/ SCRUB & FOG SEAL AREA
 - 1 MARKING LINE PAINT 4-INCH (WHITE)
 - 2 MARKING LINE PAINT 4-INCH (YELLOW)
 - 3 MARKING LINE PAINT 8-INCH (WHITE)

- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
- 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
- 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
- 6 MARKING WORK PAINT (WHITE)





5

NOTES:
ALIGNMENTS AND PAVEMENT MARKINGS LOCATIONS ARE APPROXIMATE. ALL LOCATIONS SHOULD BE FIT TO FIELD CONDITIONS, AND VERIFIED BY THE PROJECT ENGINEER.

- CHIP/ SCRUB & FOG SEAL AREA
- 1 MARKING LINE PAINT 4-INCH (WHITE)
 - 2 MARKING LINE PAINT 4-INCH (YELLOW)
 - 3 MARKING LINE PAINT 8-INCH (WHITE)

LEGEND

- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
- 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
 - 6 MARKING WORK PAINT (WHITE)

5

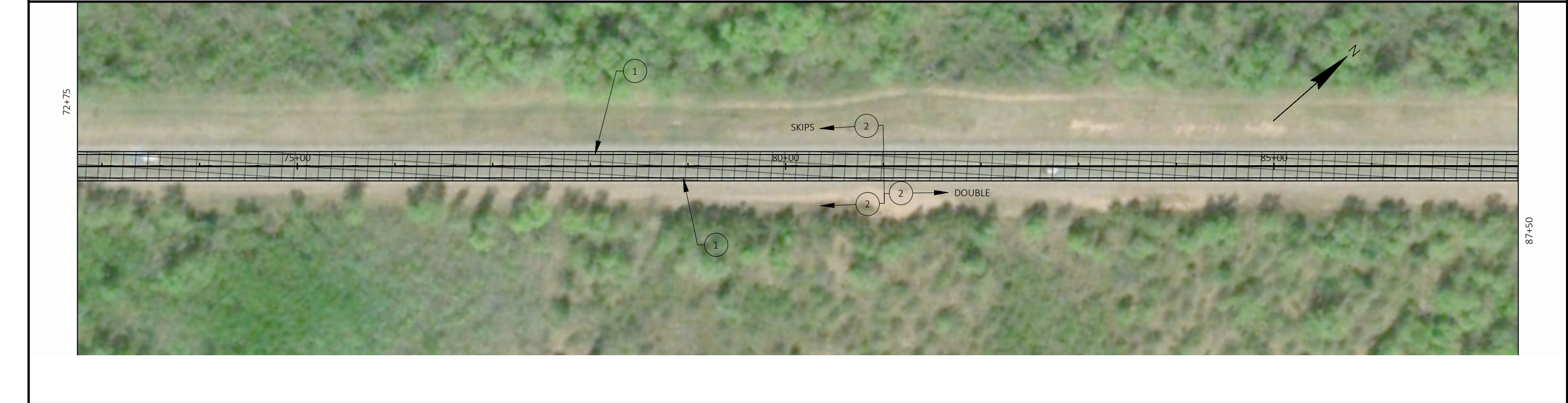


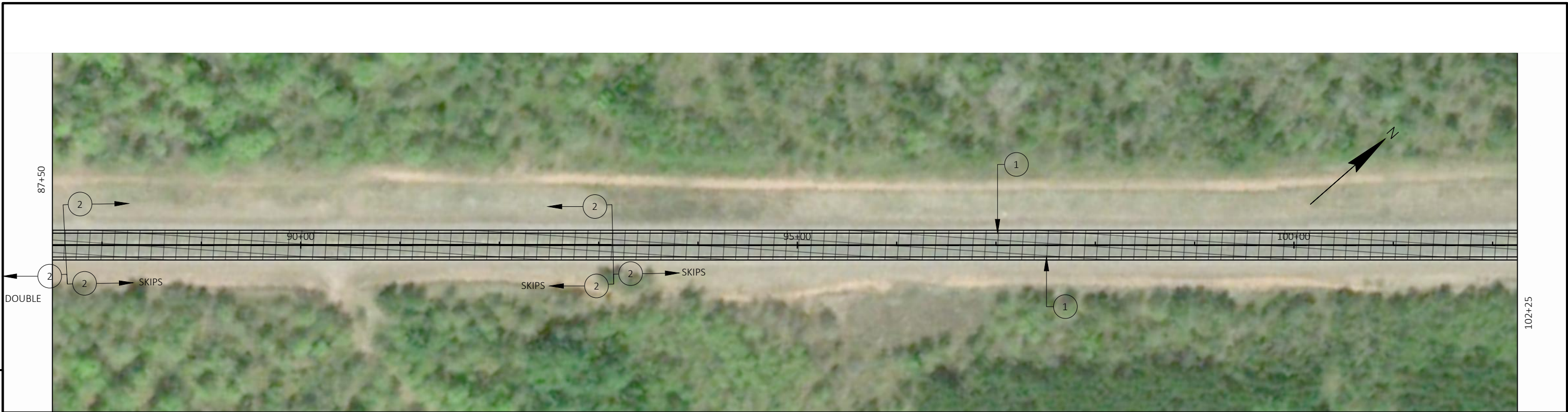


NOTES:
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- CHIP/ SCRUB & FOG SEAL AREA
- 1 MARKING LINE PAINT 4-INCH (WHITE)
- 2 MARKING LINE PAINT 4-INCH (YELLOW)
- 3 MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
 - 6 MARKING WORK PAINT (WHITE)



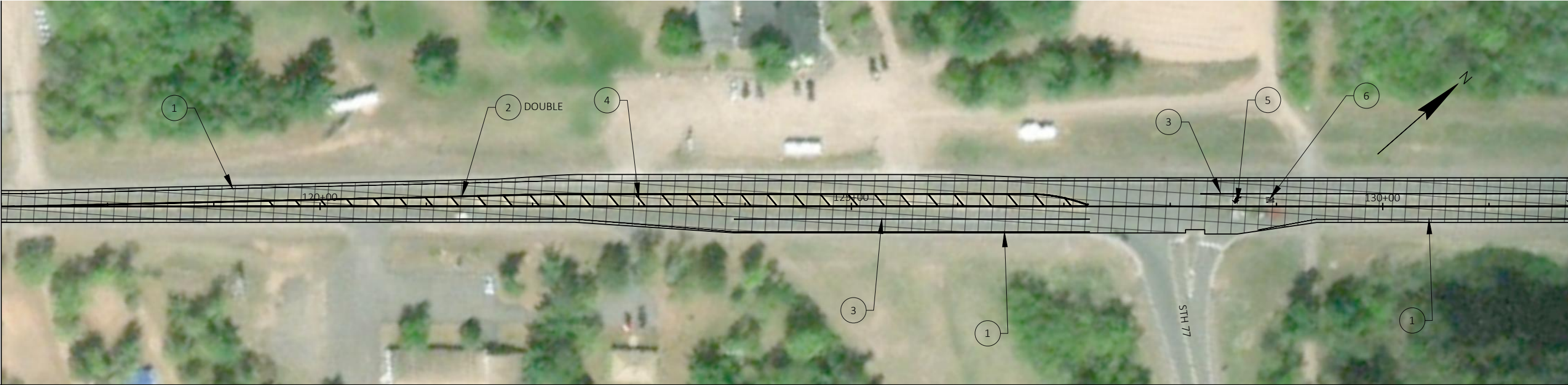


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- CHIP/ SCRUB & FOG SEAL AREA
- 1 MARKING LINE PAINT 4-INCH (WHITE)
 - 2 MARKING LINE PAINT 4-INCH (YELLOW)
 - 3 MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
 - 6 MARKING WORK PAINT (WHITE)

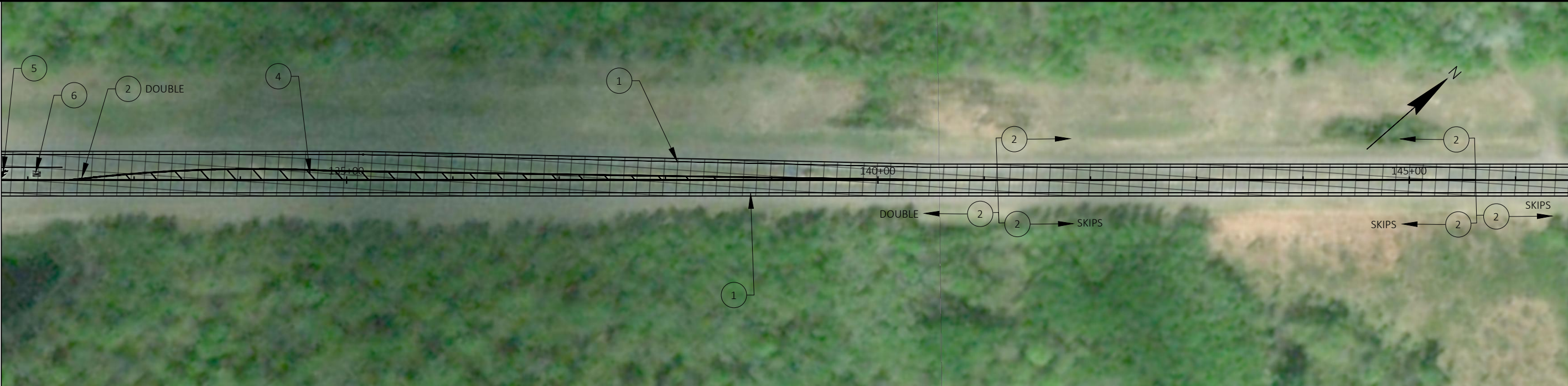


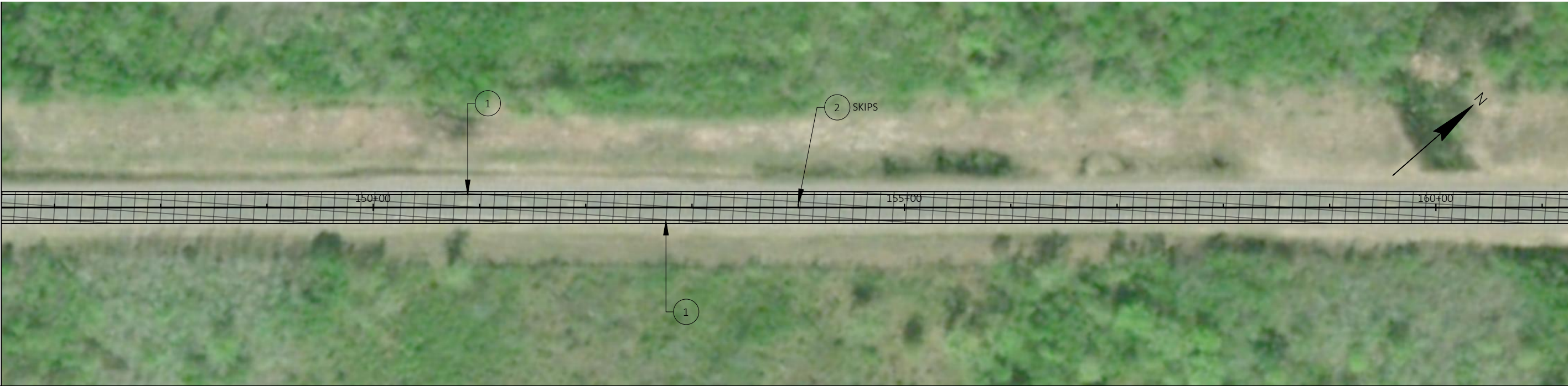


NOTES:
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- LEGEND
- CHIP/ SCRUB & FOG SEAL AREA
 - 1 MARKING LINE PAINT 4-INCH (WHITE)
 - 2 MARKING LINE PAINT 4-INCH (YELLOW)
 - 3 MARKING LINE PAINT 8-INCH (WHITE)

- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
- 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
- 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
- 6 MARKING WORK PAINT (WHITE)









NOTES:
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



- CHIP/ SCRUB & FOG SEAL AREA
- 1 MARKING LINE PAINT 4-INCH (WHITE)
- 2 MARKING LINE PAINT 4-INCH (YELLOW)
- 3 MARKING LINE PAINT 8-INCH (WHITE)

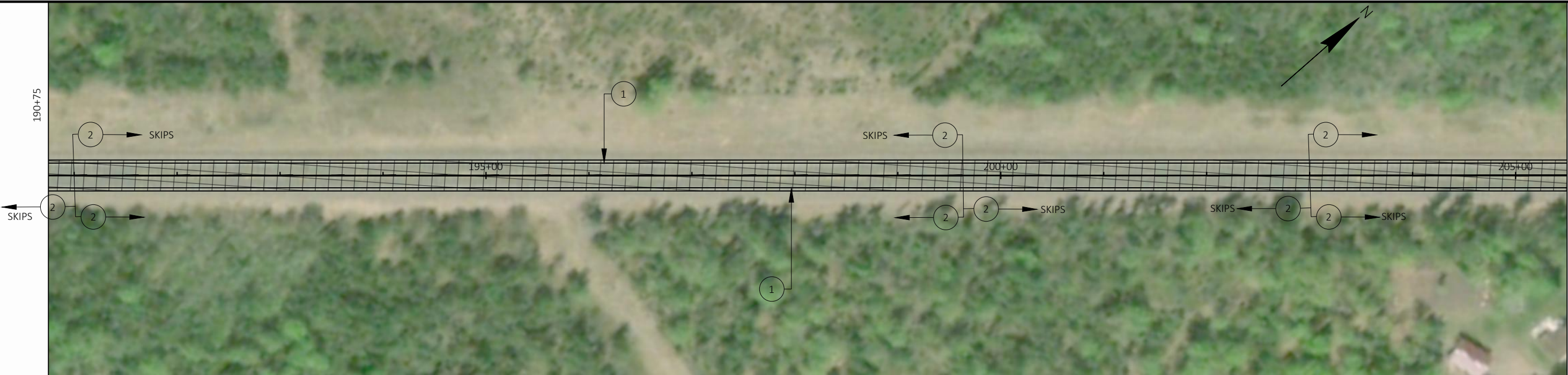
- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
 - 6 MARKING WORK PAINT (WHITE)



NOTES:
ALIGNMENTS AND PAVEMENT MARKINGS LOCATIONS ARE APPROXIMATE. ALL LOCATIONS SHOULD BE FIT TO FIELD CONDITIONS, AND VERIFIED BY THE PROJECT ENGINEER.

-  CHIP/ SCRUB & FOG SEAL AREA
-  MARKING LINE PAINT 4-INCH (WHITE)
-  MARKING LINE PAINT 4-INCH (YELLOW)
-  MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
-  BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 -  MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 -  MARKING ARROW PAINT (TYPE 2) (WHITE)
 -  MARKING WORK PAINT (WHITE)

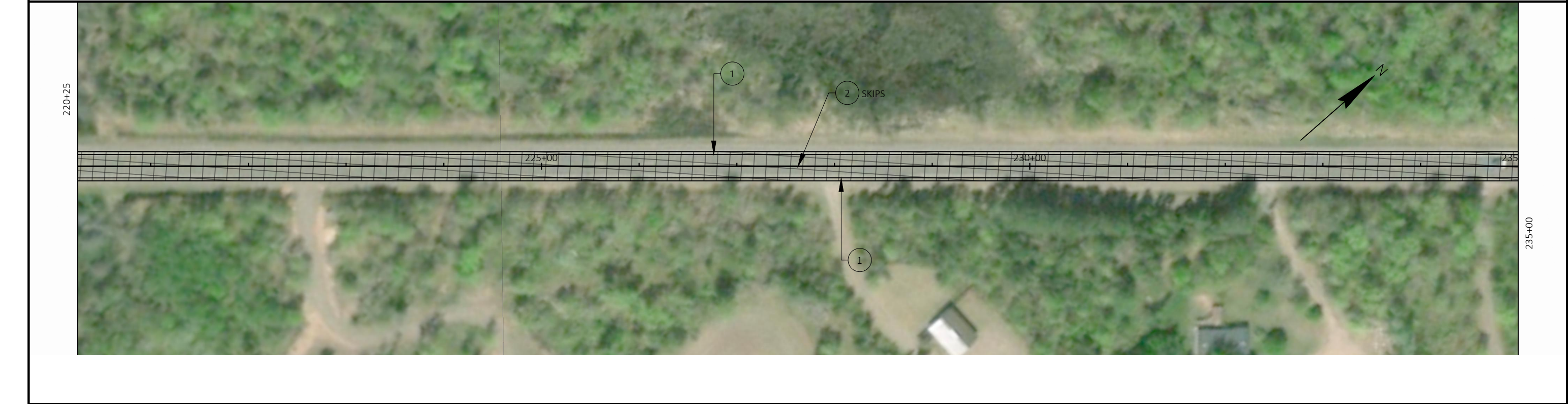


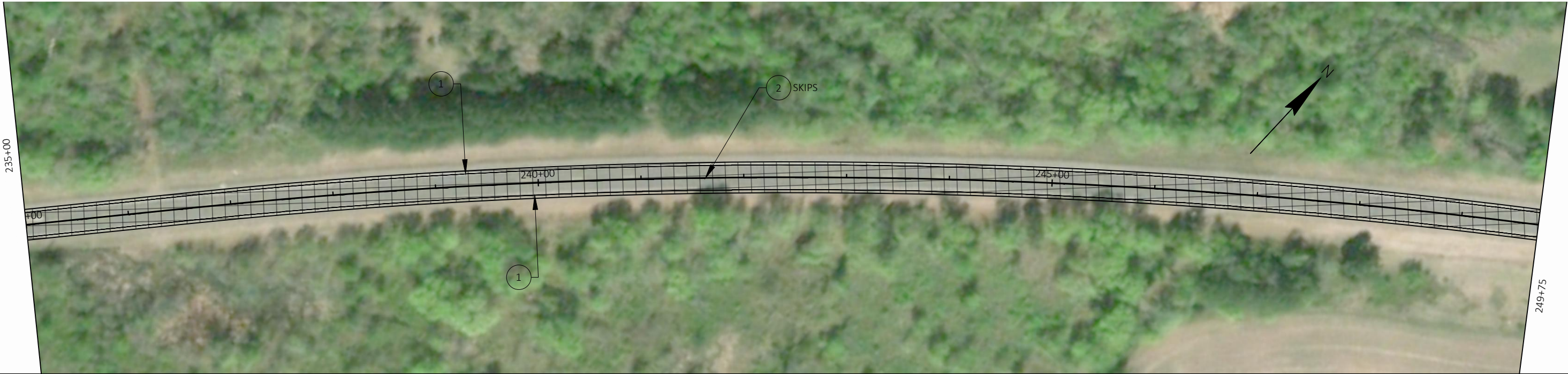


NOTES:
ALIGNMENTS AND PAVEMENT MARKINGS LOCATIONS ARE APPROXIMATE. ALL LOCATIONS SHOULD BE FIT TO FIELD CONDITIONS, AND VERIFIED BY THE PROJECT ENGINEER.

- CHIP/ SCRUB & FOG SEAL AREA
- (1) MARKING LINE PAINT 4-INCH (WHITE)
- (2) MARKING LINE PAINT 4-INCH (YELLOW)
- (3) MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - (4) MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - (5) MARKING ARROW PAINT (TYPE 2) (WHITE)
 - (6) MARKING WORK PAINT (WHITE)





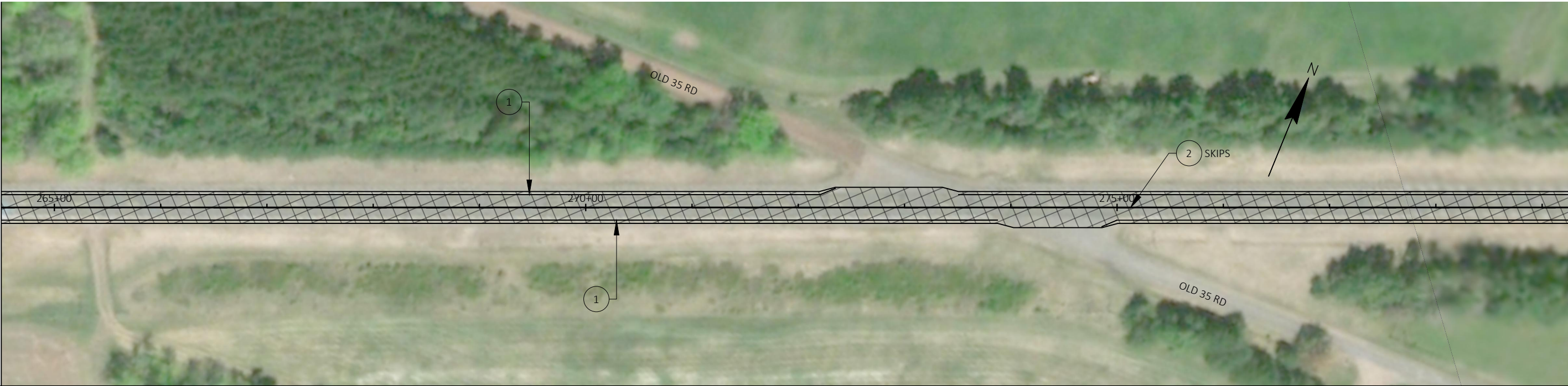
NOTES:
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- CHIP/ SCRUB & FOG SEAL AREA
- 1 MARKING LINE PAINT 4-INCH (WHITE)
- 2 MARKING LINE PAINT 4-INCH (YELLOW)
- 3 MARKING LINE PAINT 8-INCH (WHITE)

LEGEND

- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
- 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
- 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
- 6 MARKING WORK PAINT (WHITE)





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- LEGEND
- CHIP/ SCRUB & FOG SEAL AREA
 - 1 MARKING LINE PAINT 4-INCH (WHITE)
 - 2 MARKING LINE PAINT 4-INCH (YELLOW)
 - 3 MARKING LINE PAINT 8-INCH (WHITE)

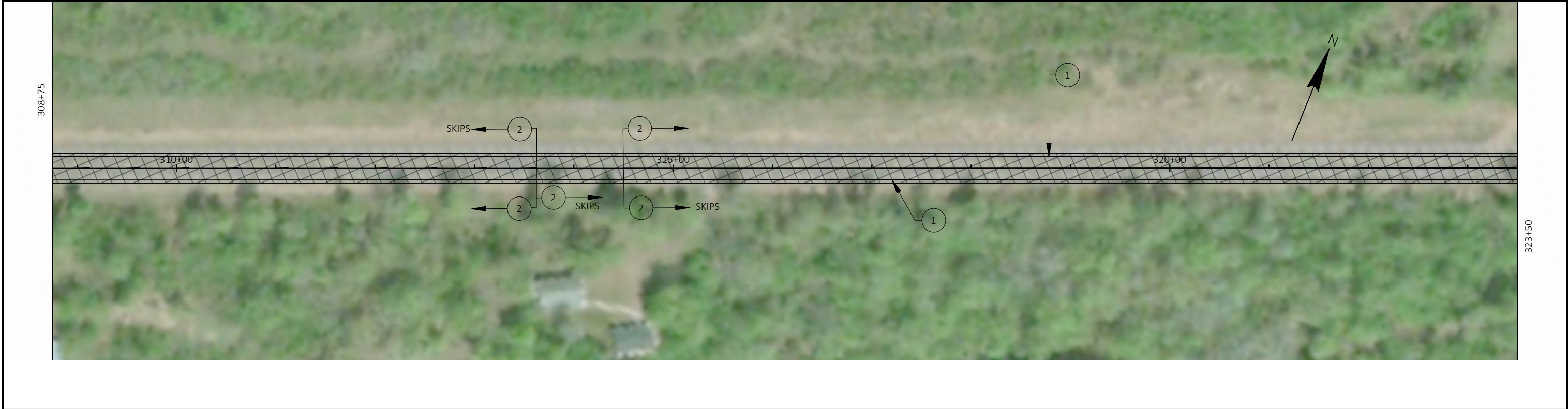
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
- 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
- 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
- 6 MARKING WORK PAINT (WHITE)



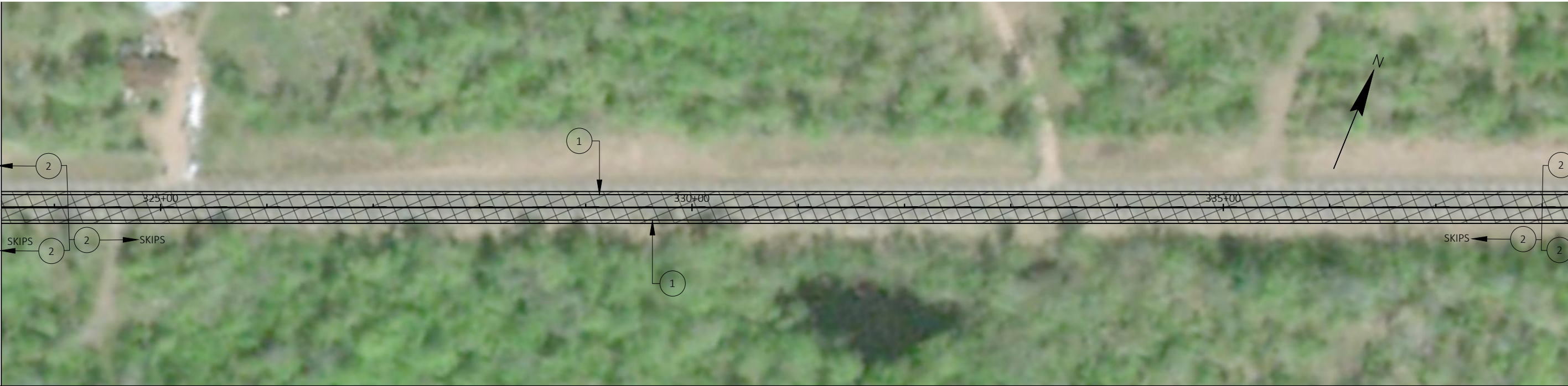
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- CHIP/ SCRUB & FOG SEAL AREA
- 1 MARKING LINE PAINT 4-INCH (WHITE)
- 2 MARKING LINE PAINT 4-INCH (YELLOW)
- 3 MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
 - 6 MARKING WORK PAINT (WHITE)



5

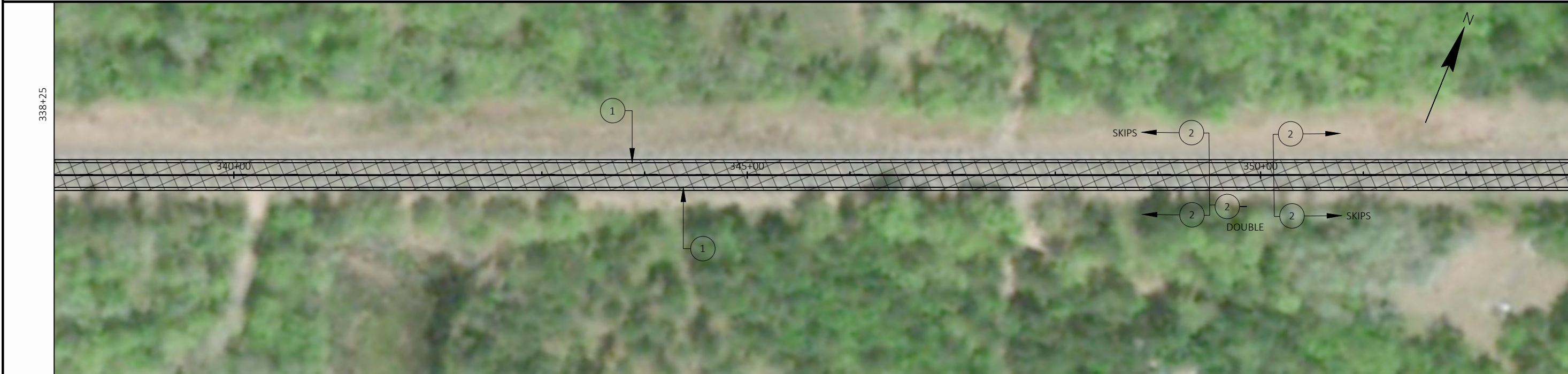


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- CHIP/ SCRUB & FOG SEAL AREA
- 1 MARKING LINE PAINT 4-INCH (WHITE)
 - 2 MARKING LINE PAINT 4-INCH (YELLOW)
 - 3 MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
 - 6 MARKING WORK PAINT (WHITE)

5



PROJECT NO: 1000-18-33

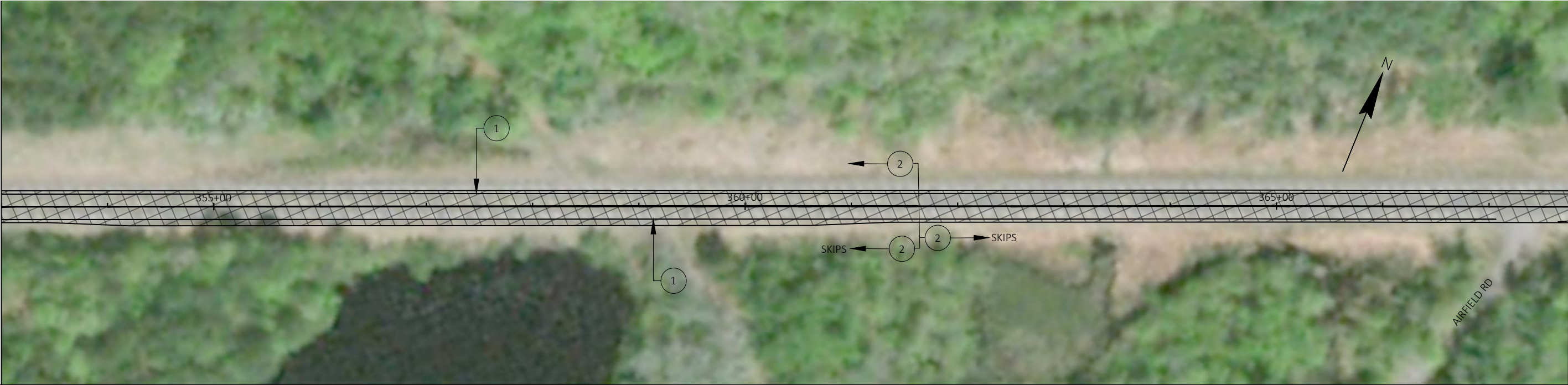
HWY: STH 35

COUNTY: BURNETT

STH 35 NORTH - SCRUB & FOG SEAL

SHEET

E

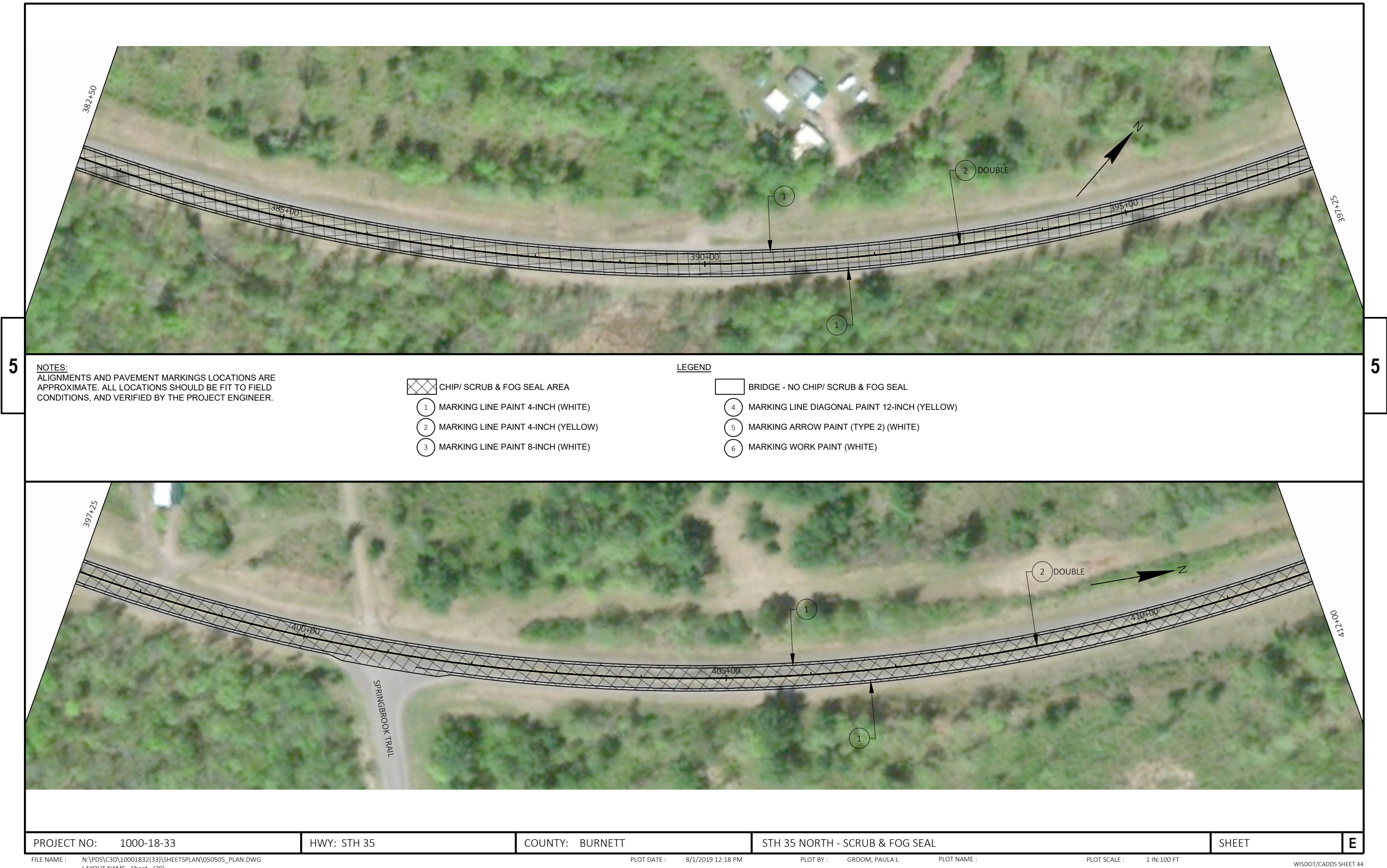


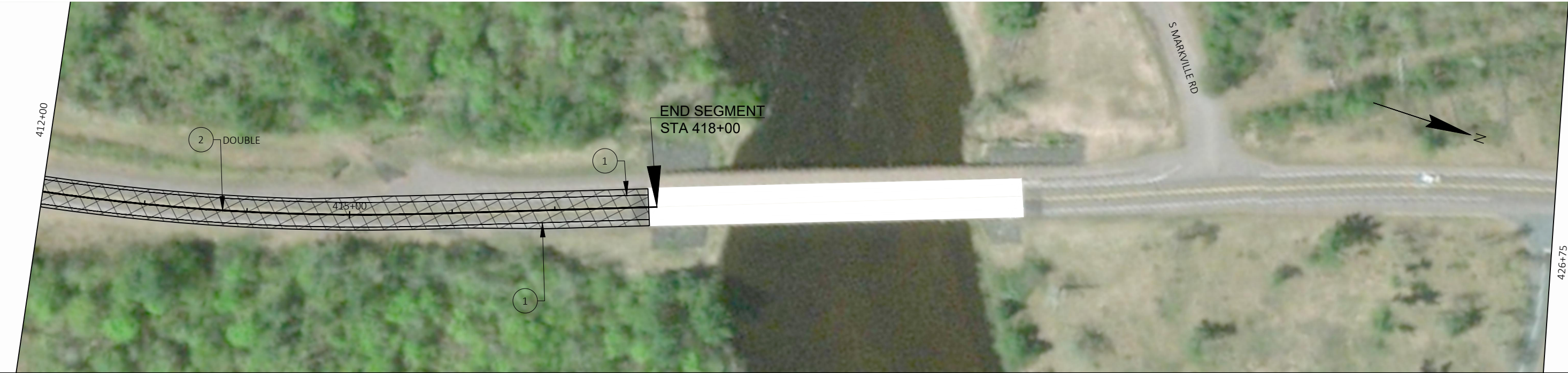
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- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
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- 6 MARKING WORK PAINT (WHITE)















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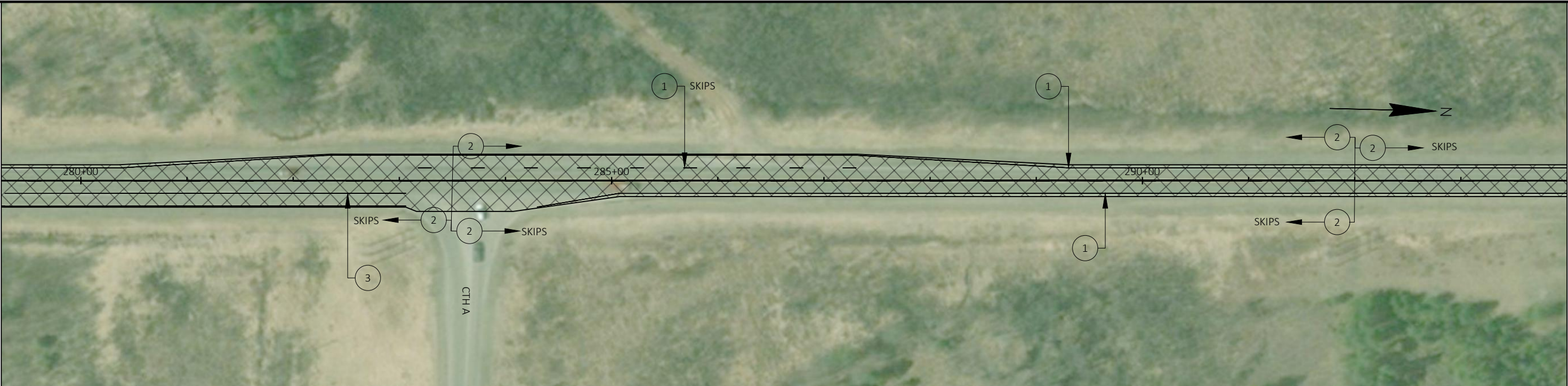
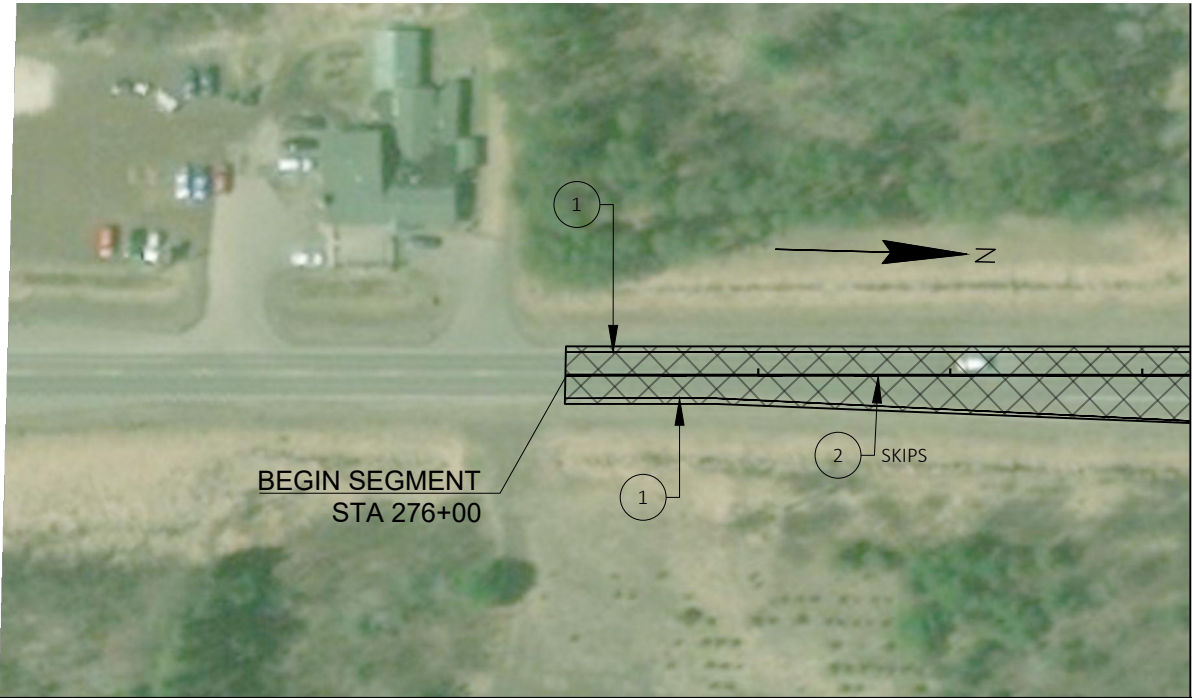
- CHIP/ SCRUB & FOG SEAL AREA
- MARKING LINE PAINT 4-INCH (WHITE)
- MARKING LINE PAINT 4-INCH (YELLOW)
- MARKING LINE PAINT 8-INCH (WHITE)

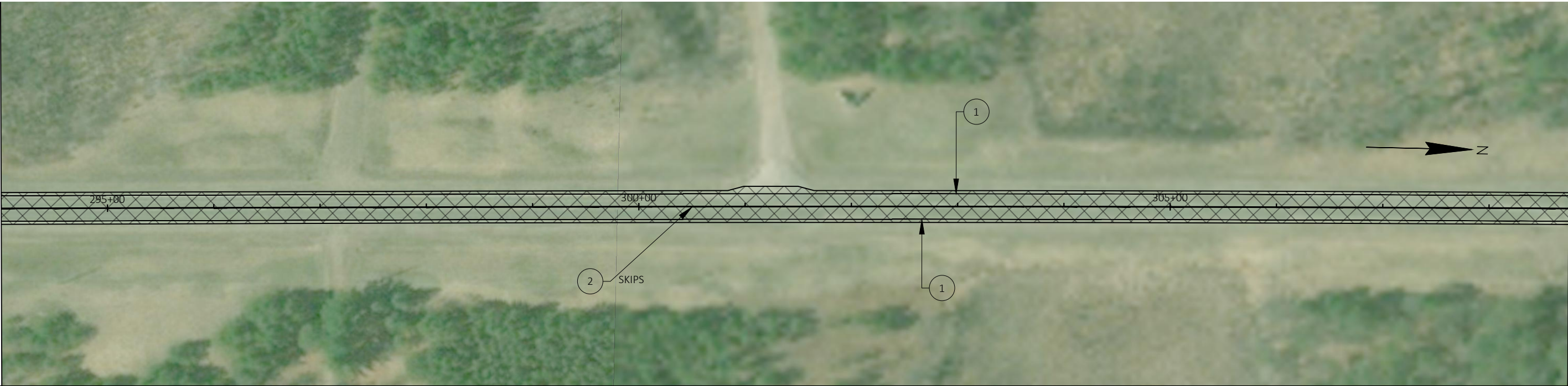
- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - MARKING ARROW PAINT (TYPE 2) (WHITE)
 - MARKING WORK PAINT (WHITE)

NOTES:
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-  CHIP/ SCRUB & FOG SEAL AREA
-  MARKING LINE PAINT 4-INCH (WHITE)
-  MARKING LINE PAINT 4-INCH (YELLOW)
-  MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
-  BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 -  MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 -  MARKING ARROW PAINT (TYPE 2) (WHITE)
 -  MARKING WORK PAINT (WHITE)



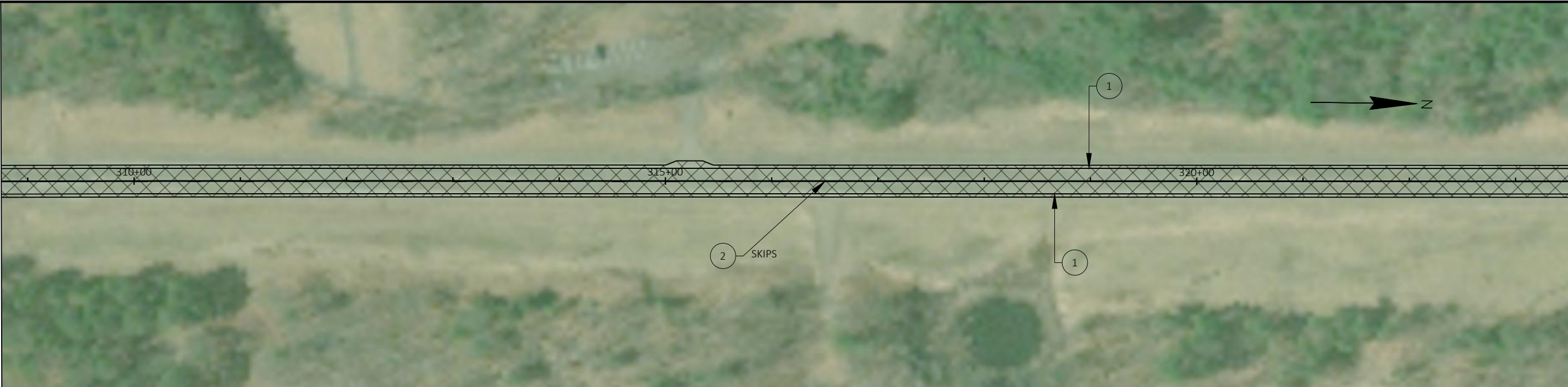


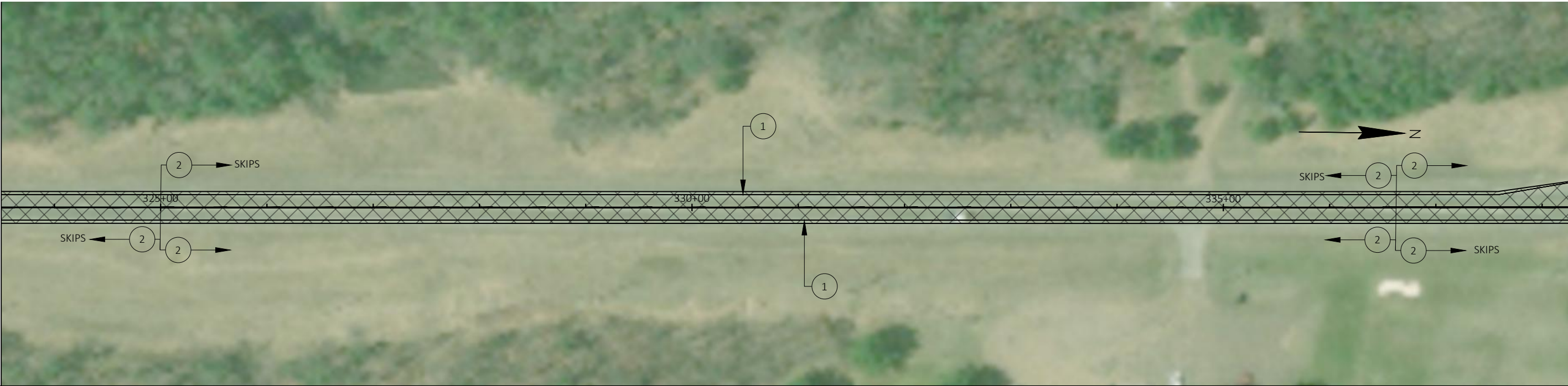
NOTES:
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- CHIP/ SCRUB & FOG SEAL AREA
- 1 MARKING LINE PAINT 4-INCH (WHITE)
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- 3 MARKING LINE PAINT 8-INCH (WHITE)

LEGEND

- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
- 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
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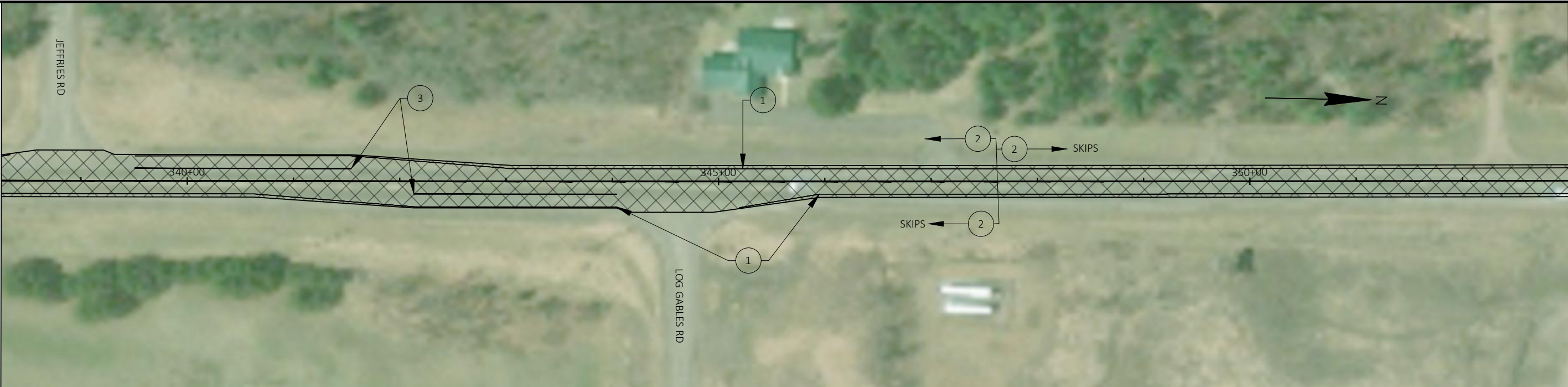


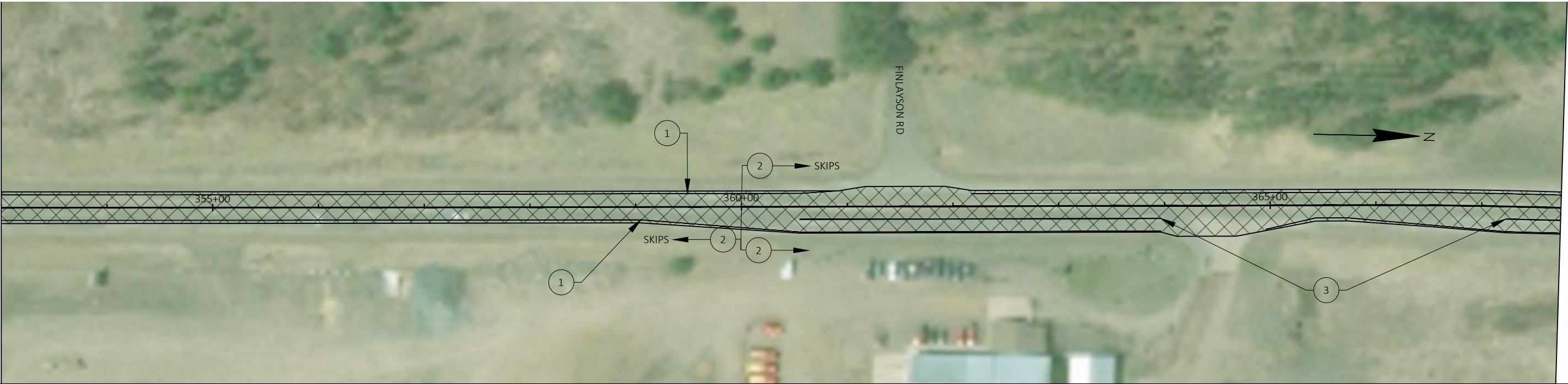
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- MARKING LINE PAINT 4-INCH (WHITE)
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LEGEND

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- MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
- MARKING ARROW PAINT (TYPE 2) (WHITE)
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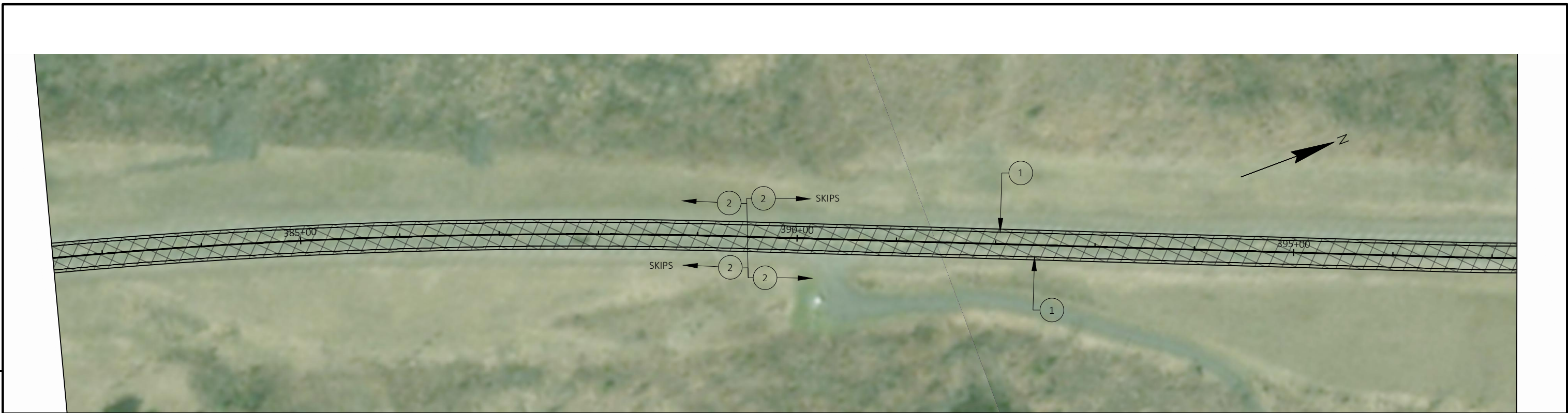


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- 6 MARKING WORK PAINT (WHITE)



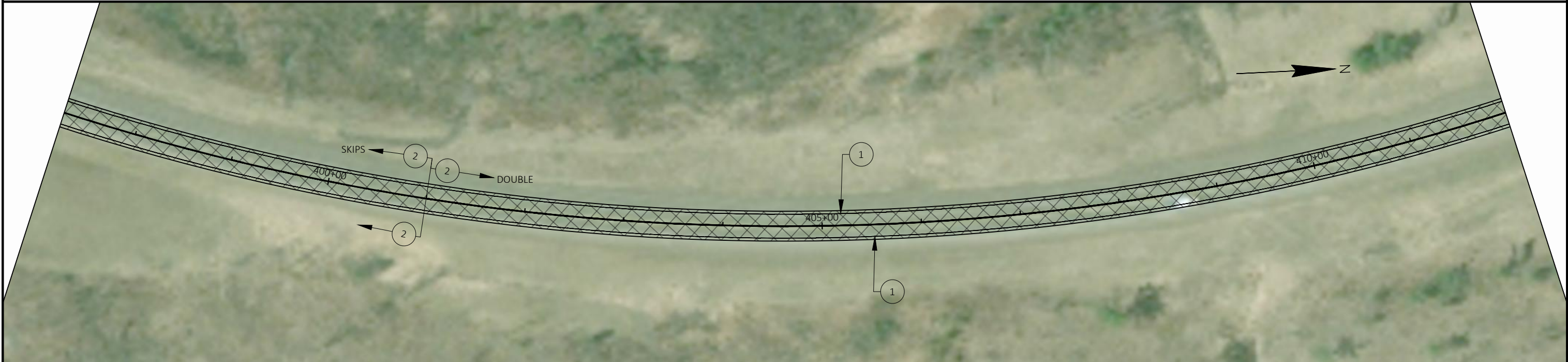


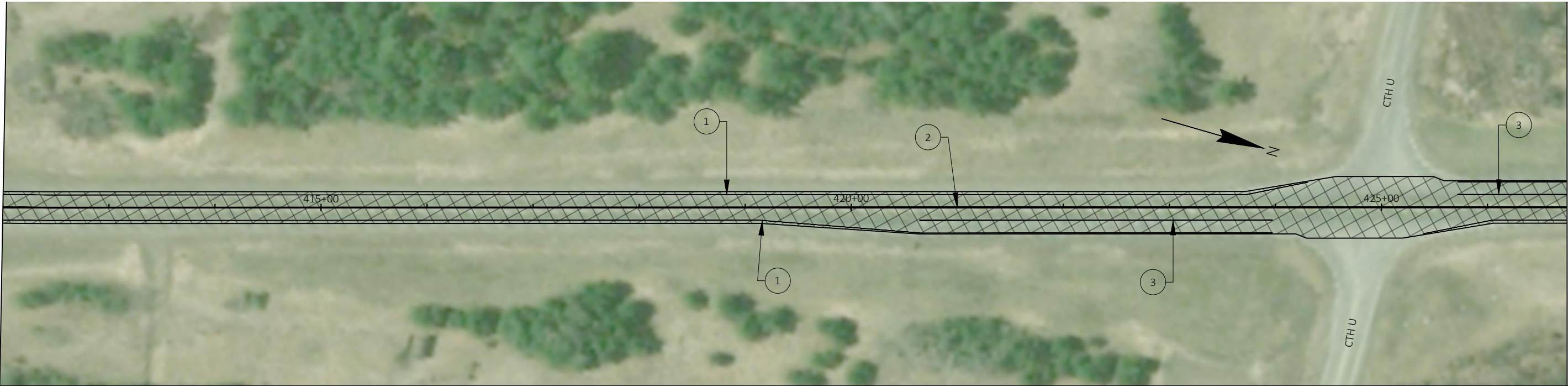
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- MARKING LINE PAINT 8-INCH (WHITE)

LEGEND

- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
- MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
- MARKING ARROW PAINT (TYPE 2) (WHITE)
- MARKING WORK PAINT (WHITE)

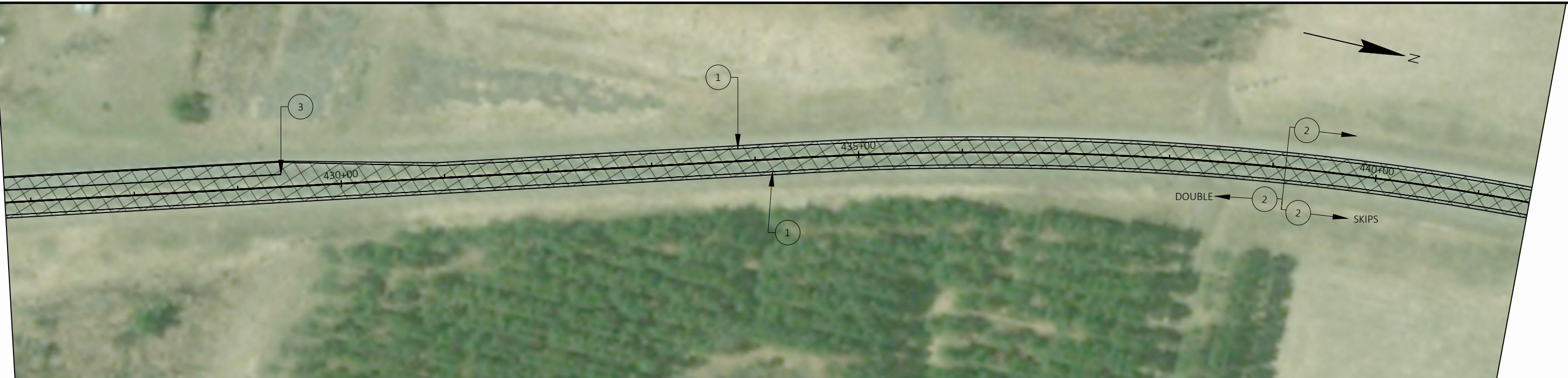




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 - 2 MARKING LINE PAINT 4-INCH (YELLOW)
 - 3 MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
 - 6 MARKING WORK PAINT (WHITE)

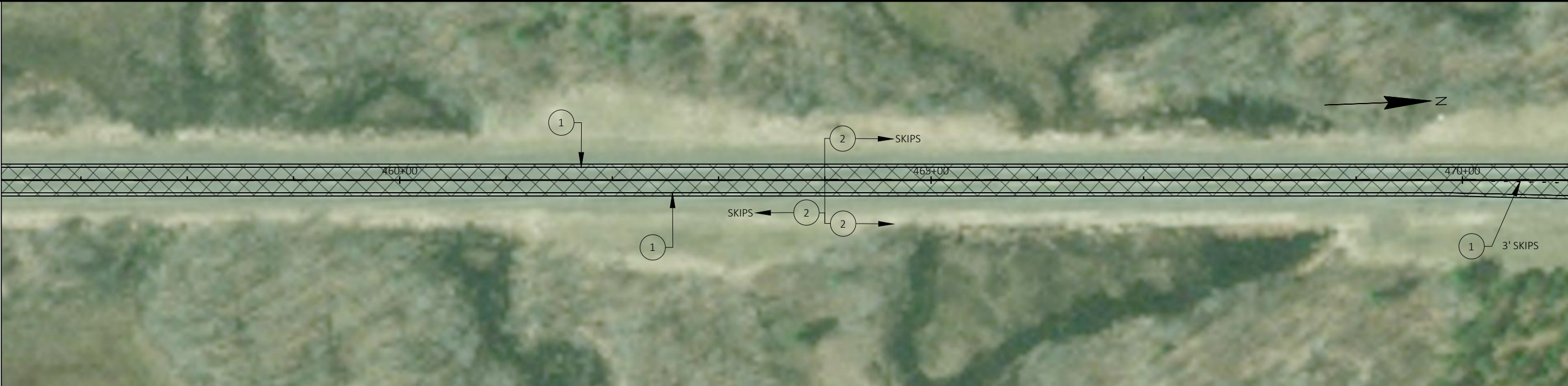


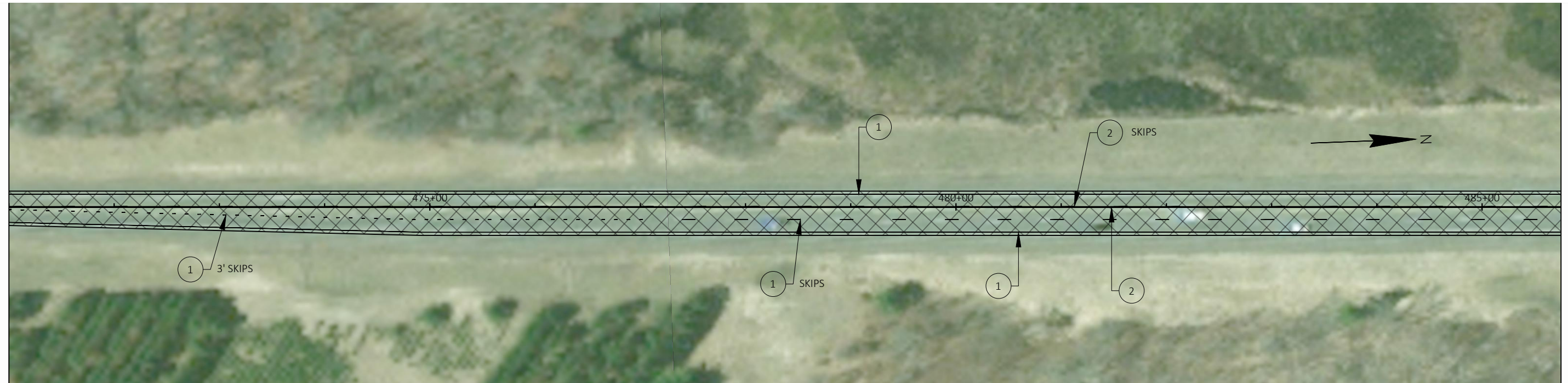
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- CHIP/ SCRUB & FOG SEAL AREA
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- 2 MARKING LINE PAINT 4-INCH (YELLOW)
- 3 MARKING LINE PAINT 8-INCH (WHITE)

LEGEND

- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
- 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
- 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
- 6 MARKING WORK PAINT (WHITE)

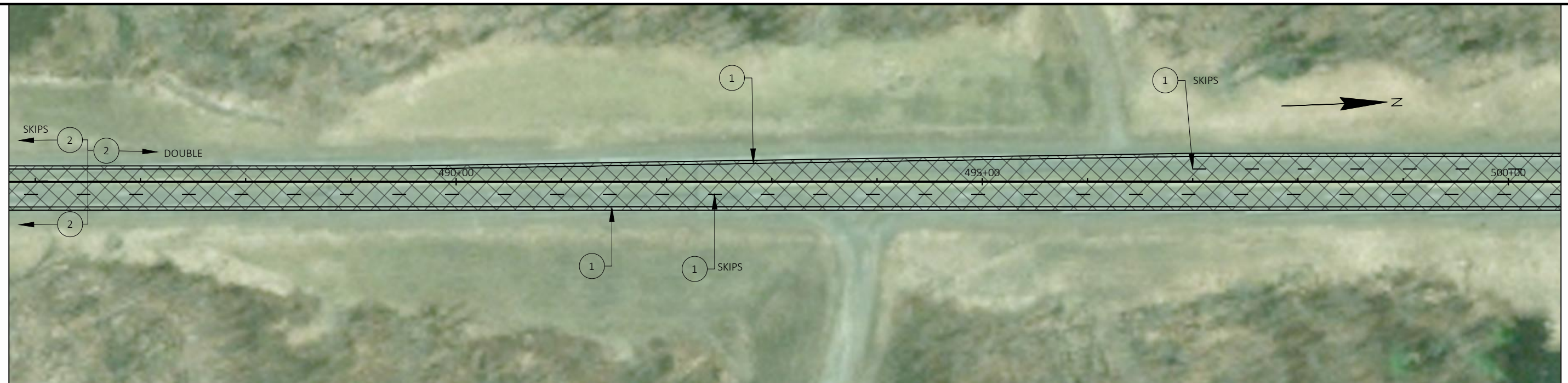




NOTES:
ALIGNMENTS AND PAVEMENT MARKINGS LOCATIONS ARE APPROXIMATE. ALL LOCATIONS SHOULD BE FIT TO FIELD CONDITIONS, AND VERIFIED BY THE PROJECT ENGINEER.

LEGEND

- | | | | |
|---|------------------------------------|---|--|
|  | CHIP/ SCRUB & FOG SEAL AREA |  | BRIDGE - NO CHIP/ SCRUB & FOG SEAL |
|  | MARKING LINE PAINT 4-INCH (WHITE) |  | MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW) |
|  | MARKING LINE PAINT 4-INCH (YELLOW) |  | MARKING ARROW PAINT (TYPE 2) (WHITE) |
|  | MARKING LINE PAINT 8-INCH (WHITE) |  | MARKING WORK PAINT (WHITE) |



| | |
|-------------|------------|
| PROJECT NO: | 1000-18-33 |
|-------------|------------|

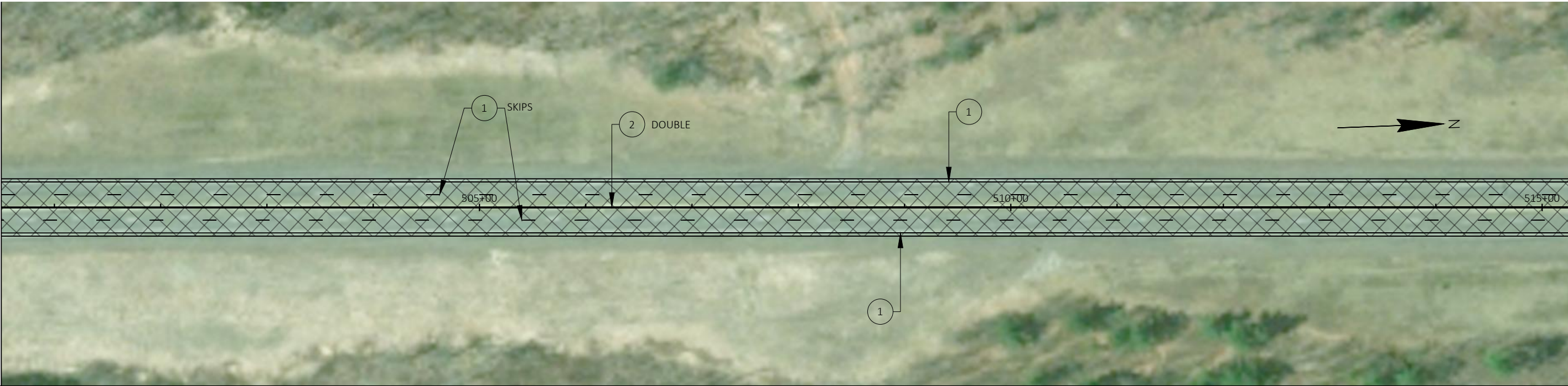
HWY: STH 35

COUNTY: BURNETT

STH 35 SOUTH - SCRUB & FOG SEAL

SHEET

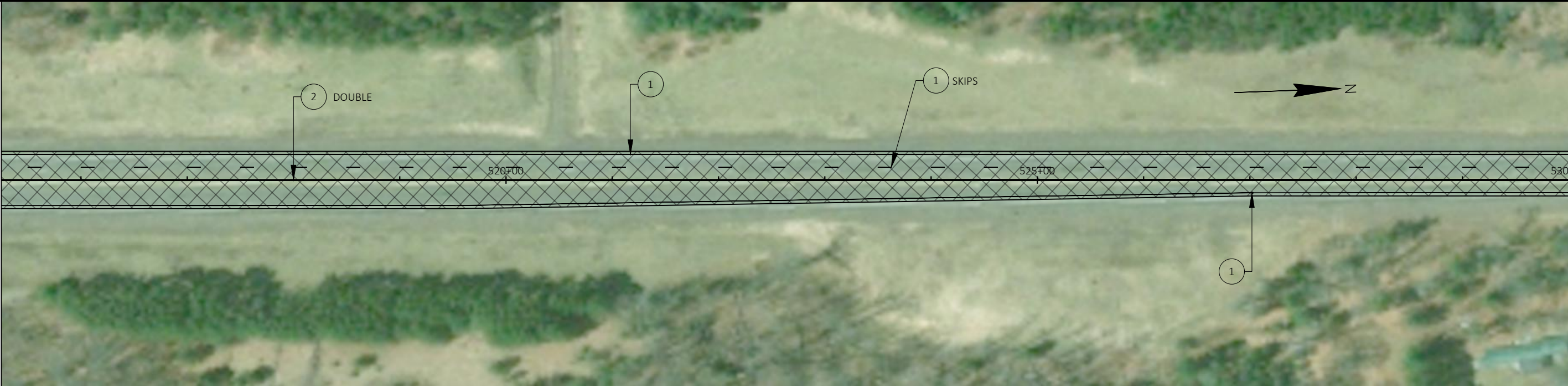
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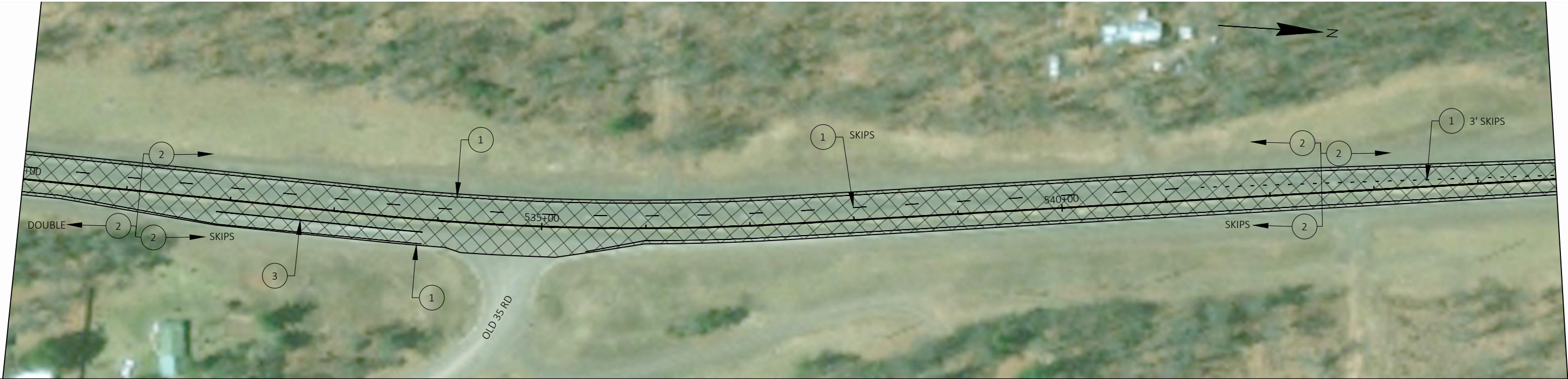


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- CHIP/ SCRUB & FOG SEAL AREA
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- 3 MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
 - 6 MARKING WORK PAINT (WHITE)

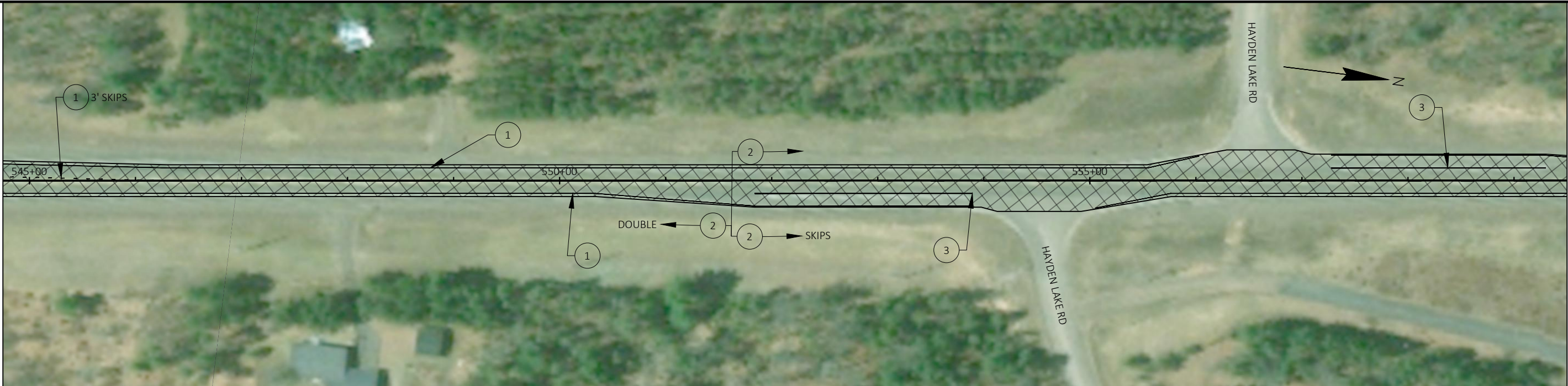


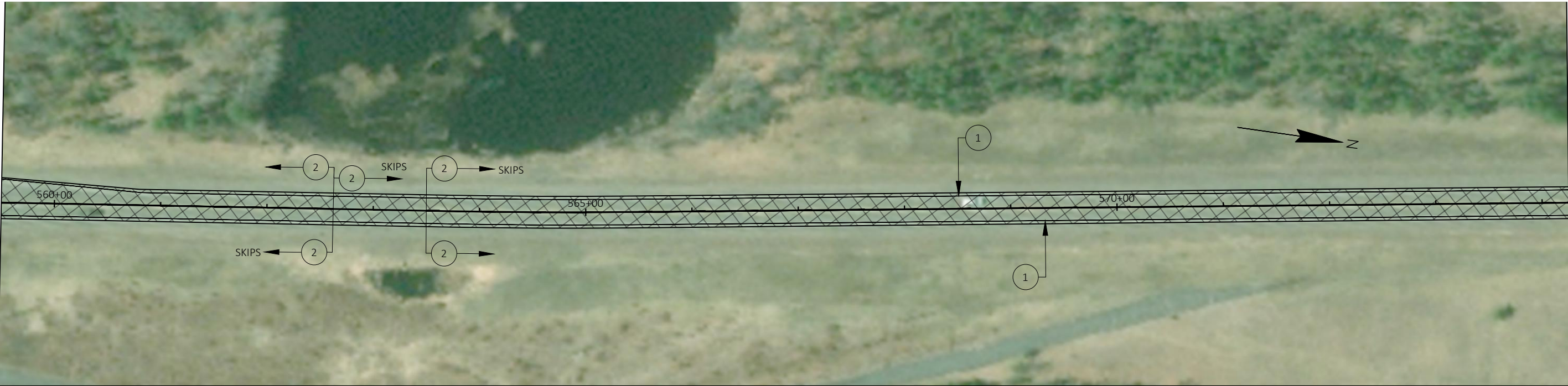


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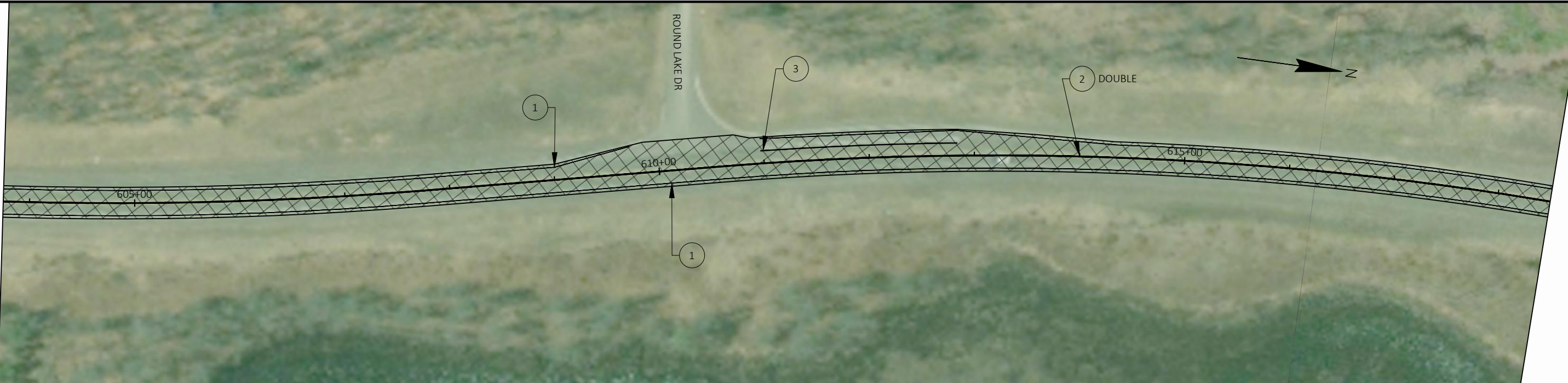


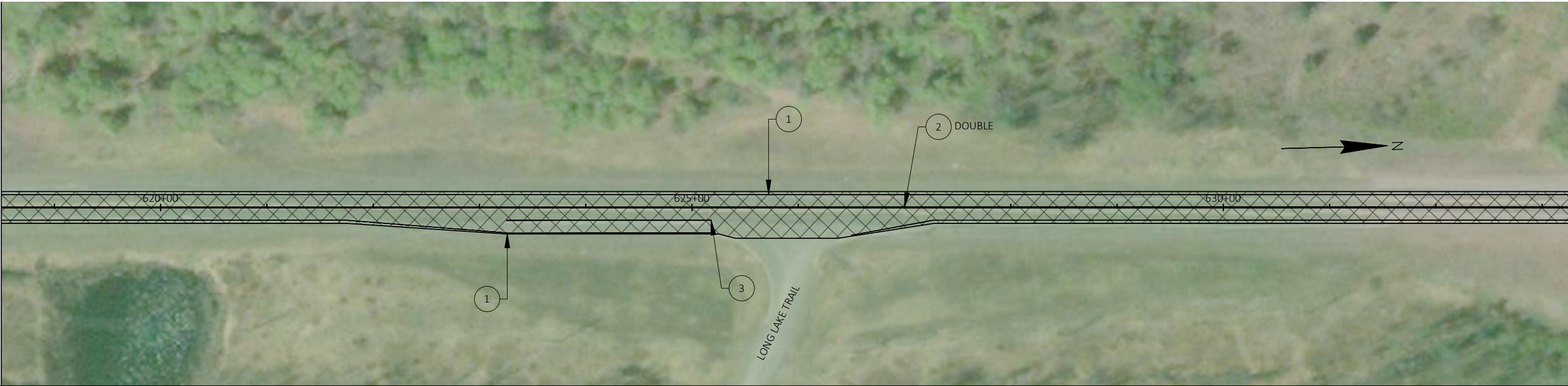
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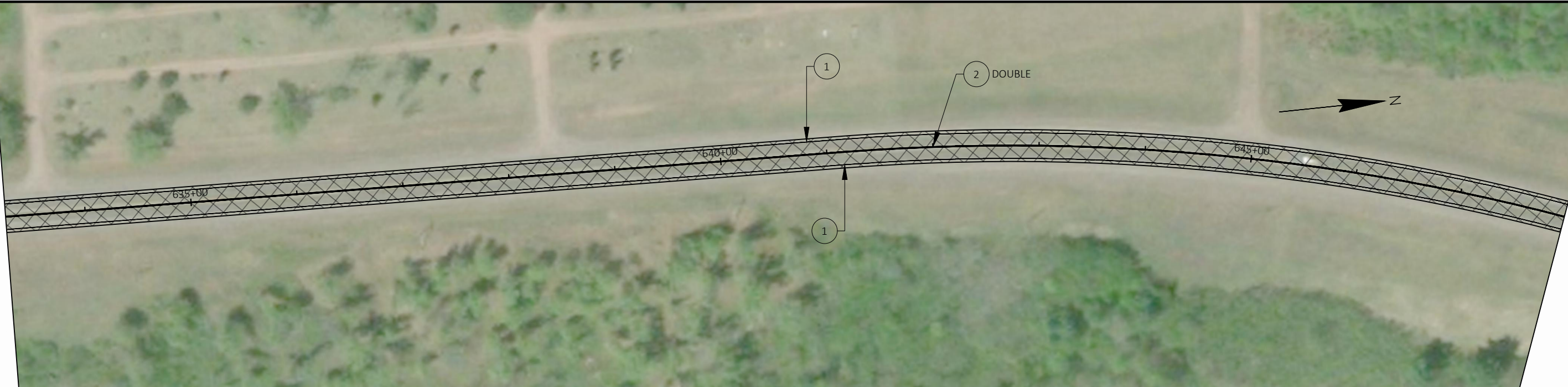


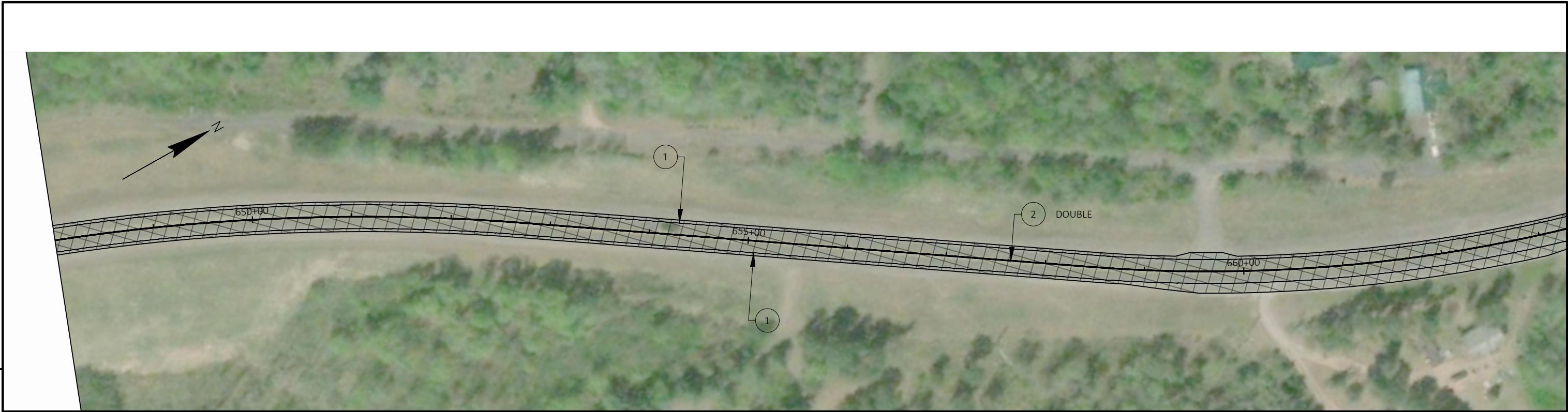
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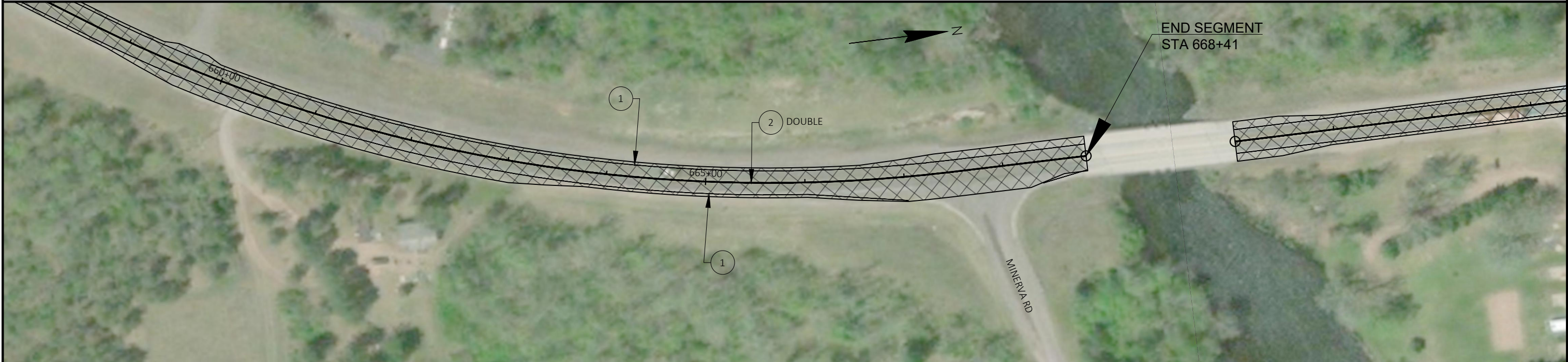


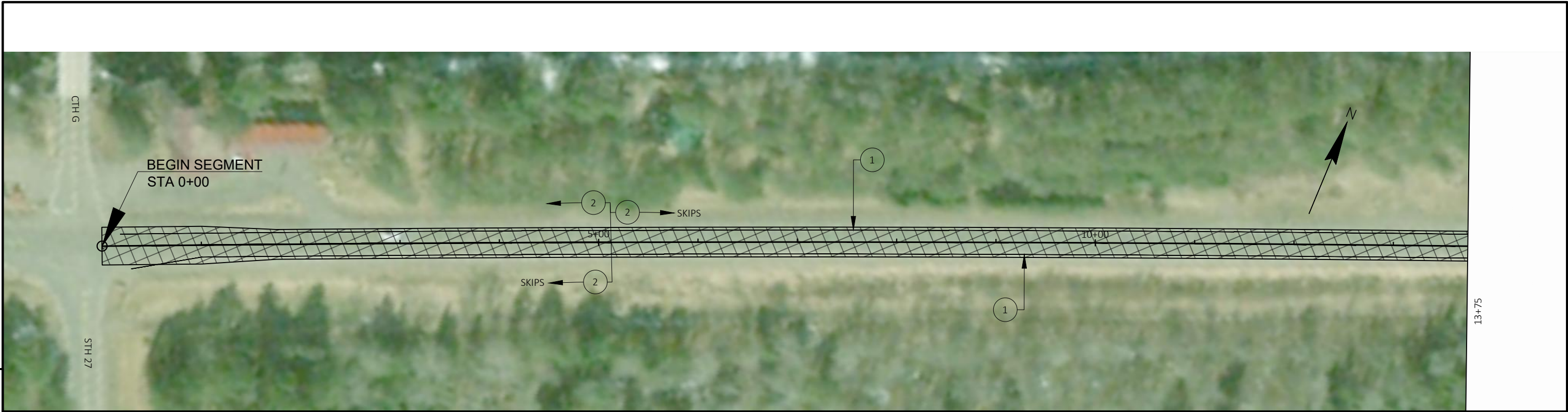
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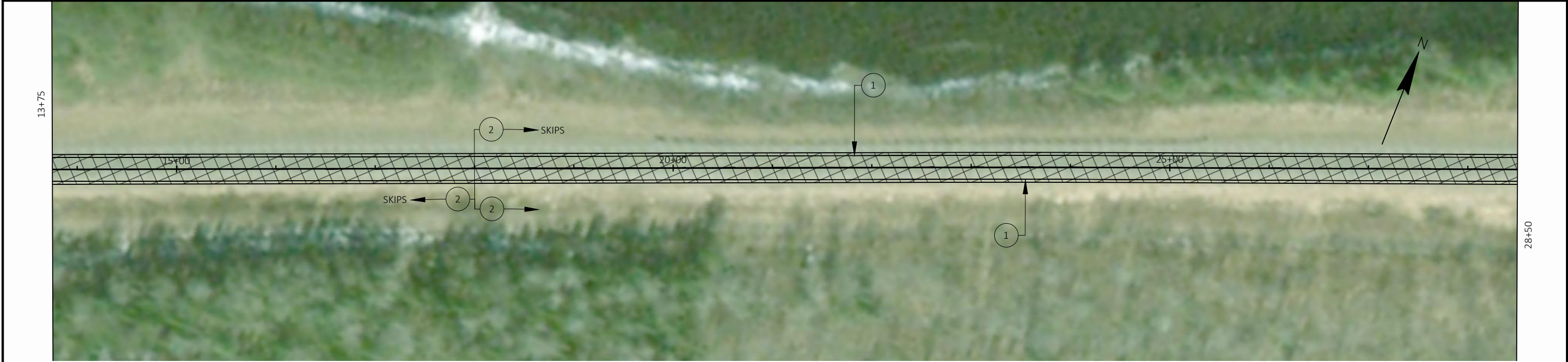
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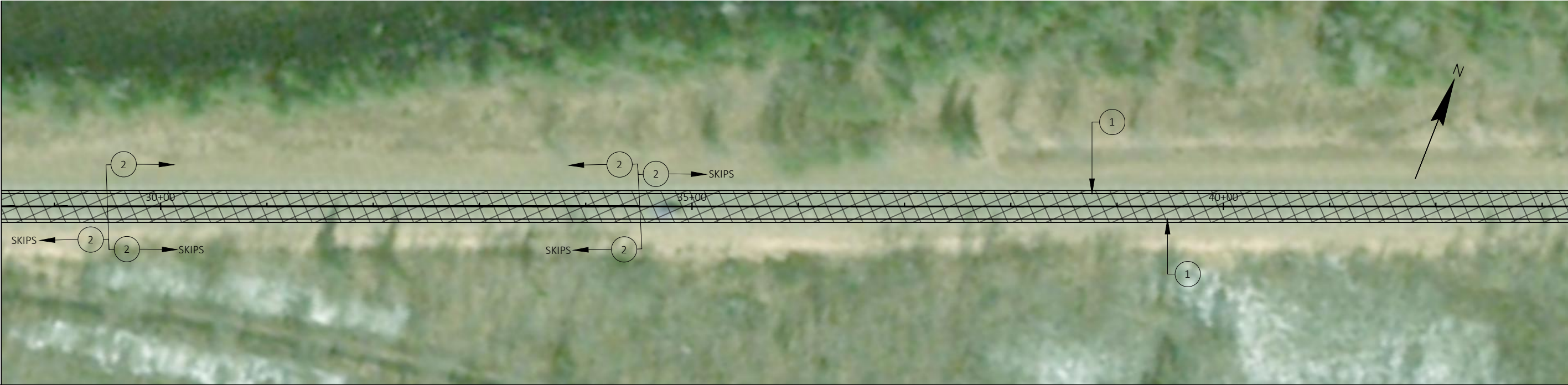
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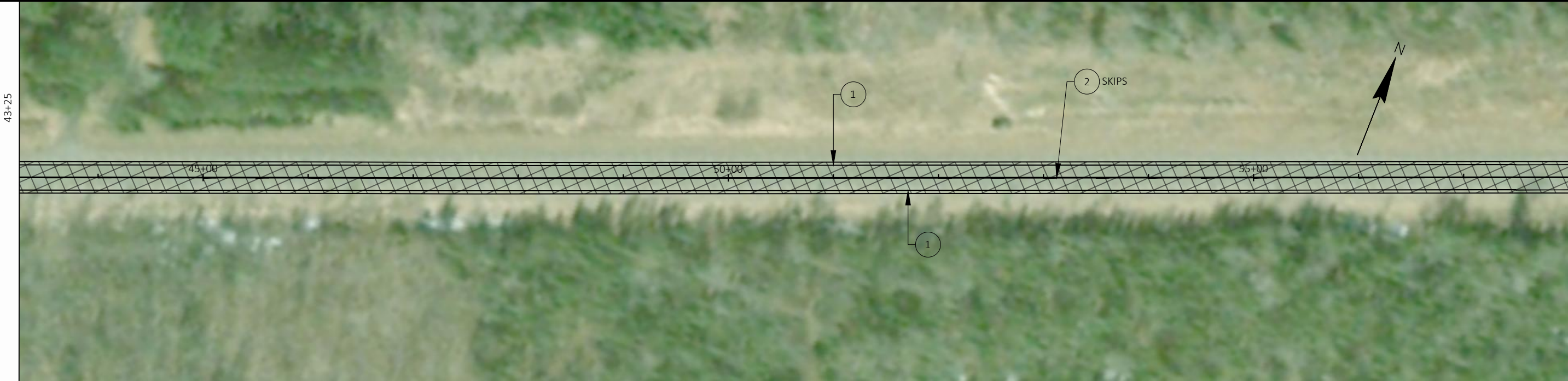


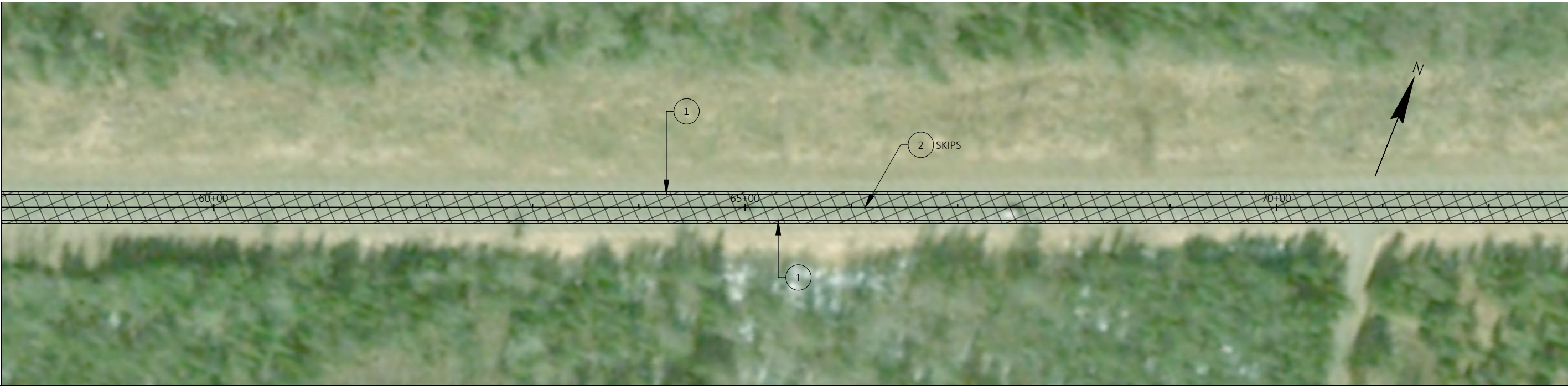
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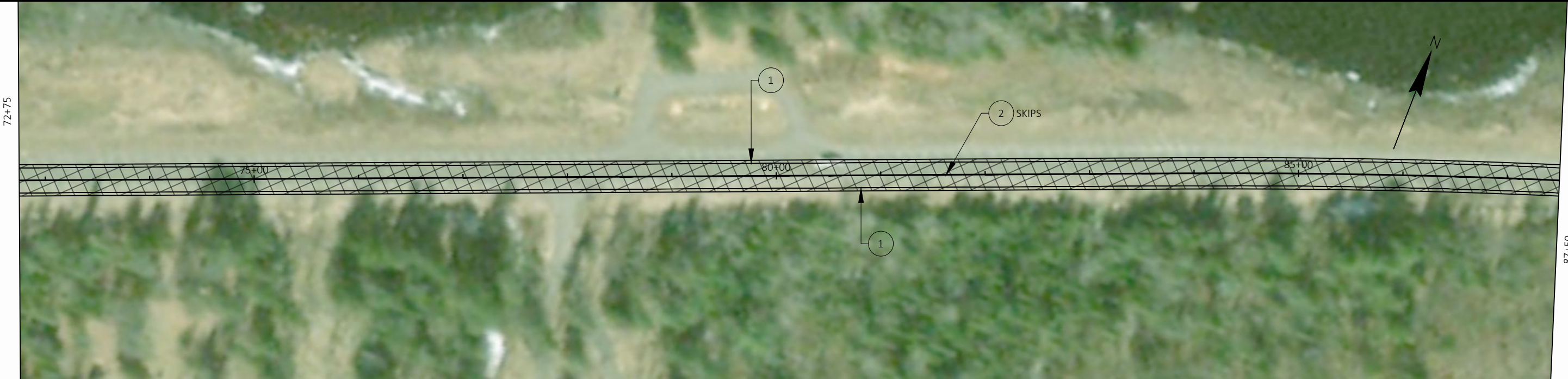








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



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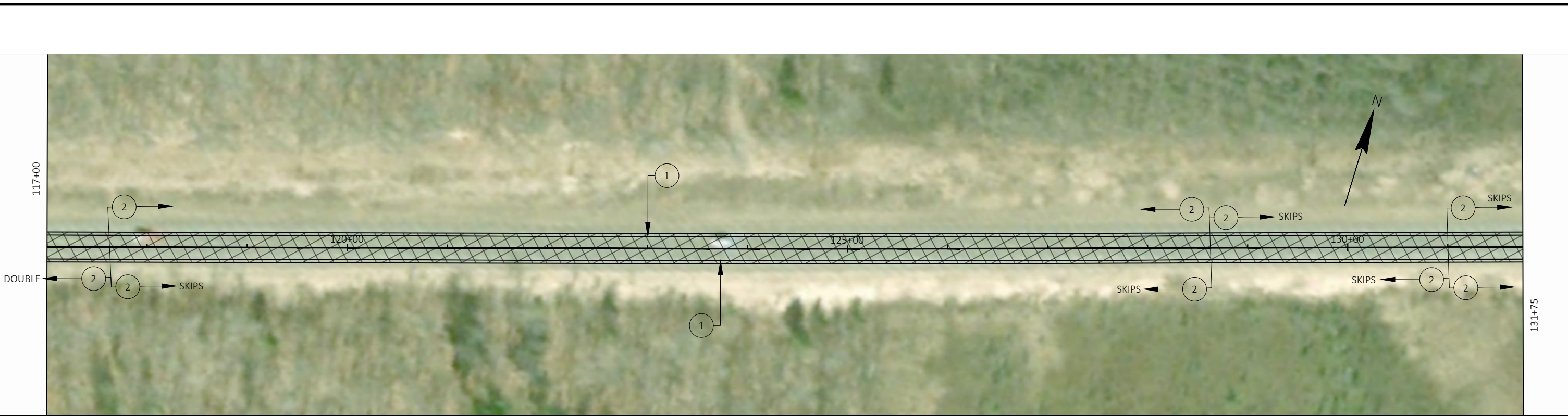
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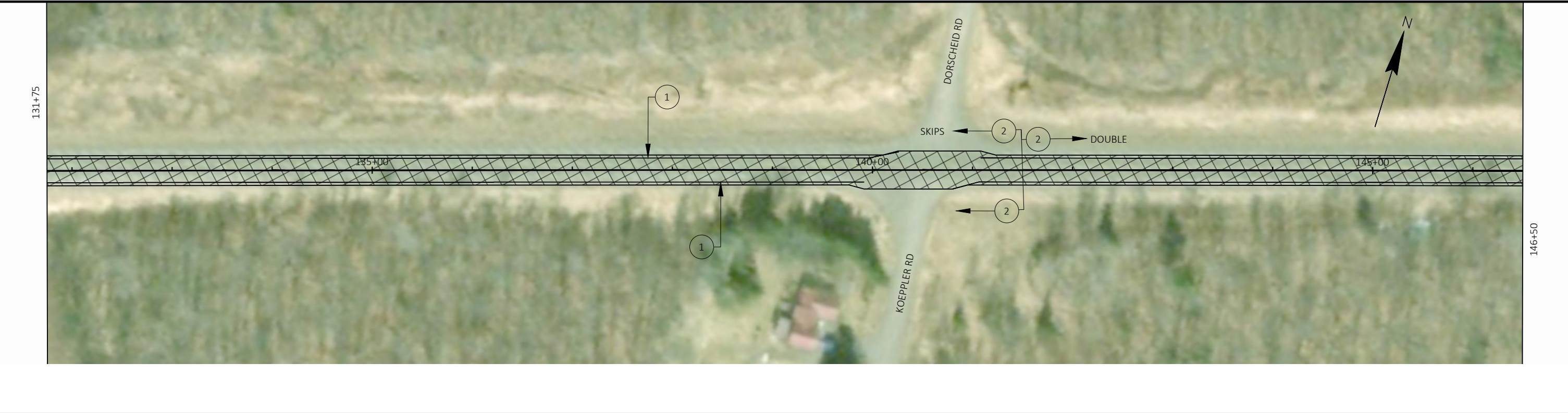


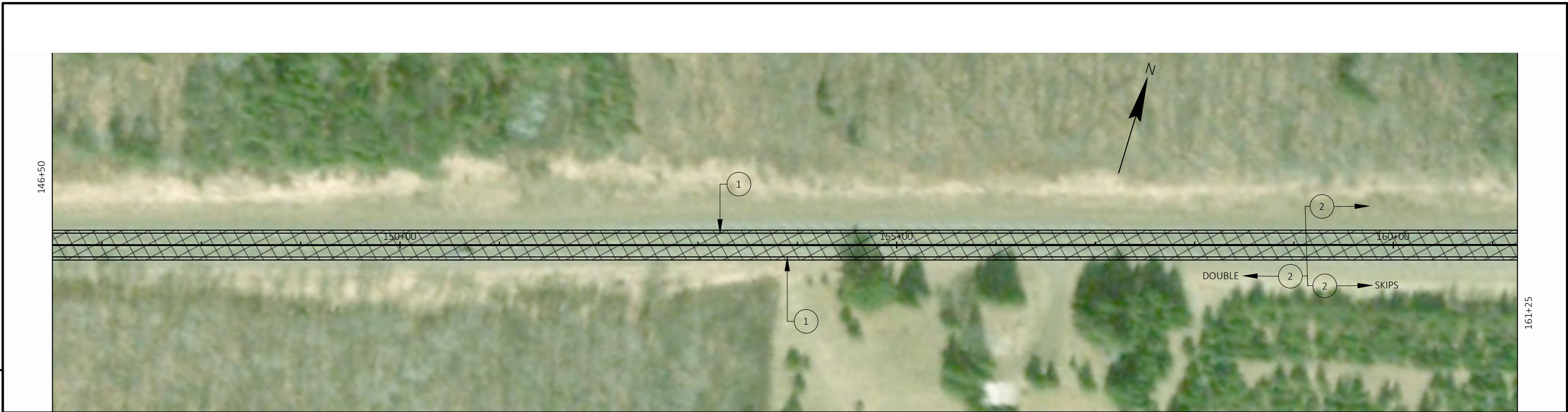
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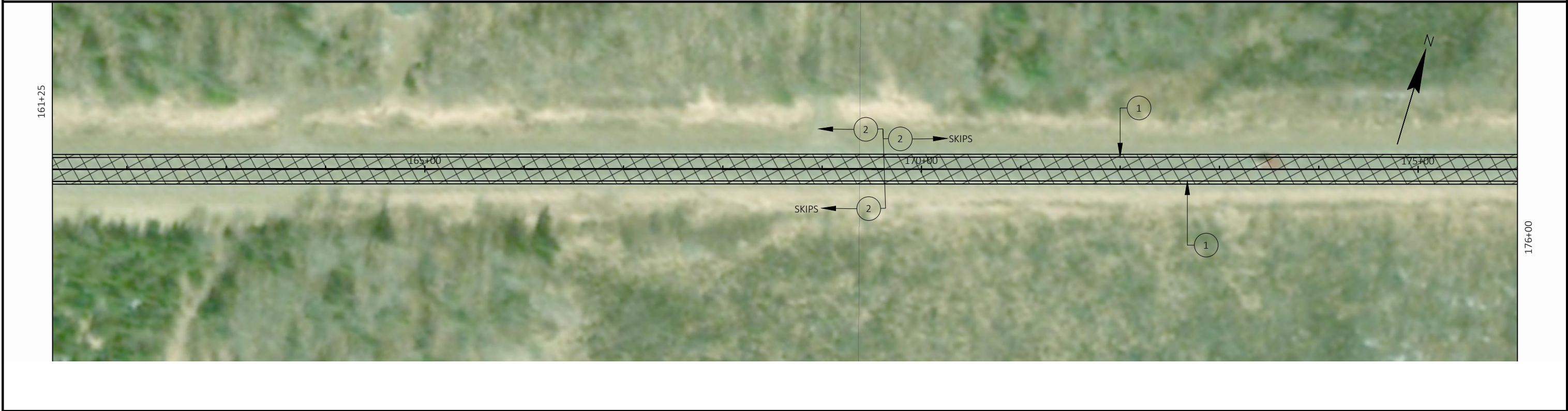


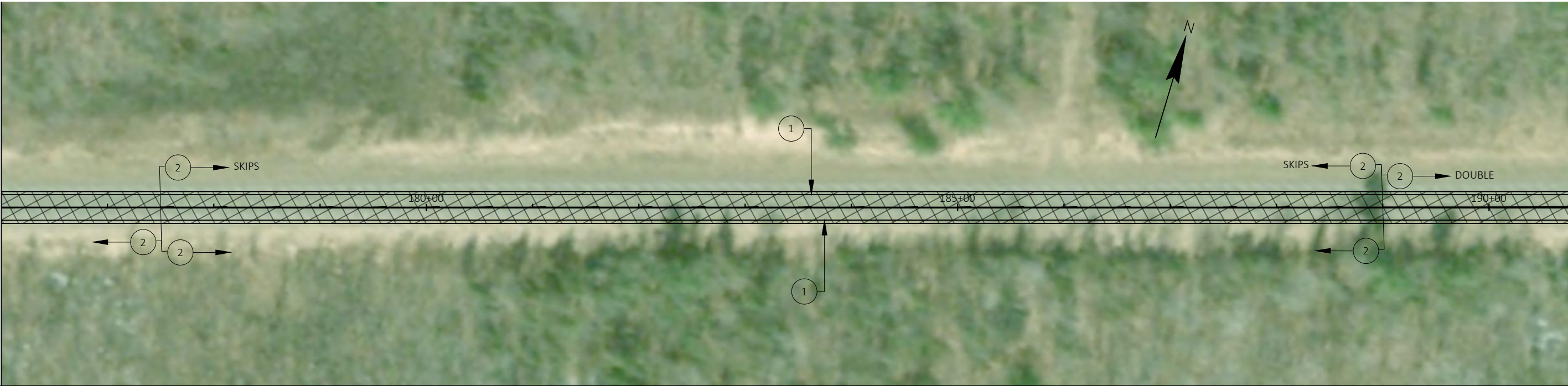


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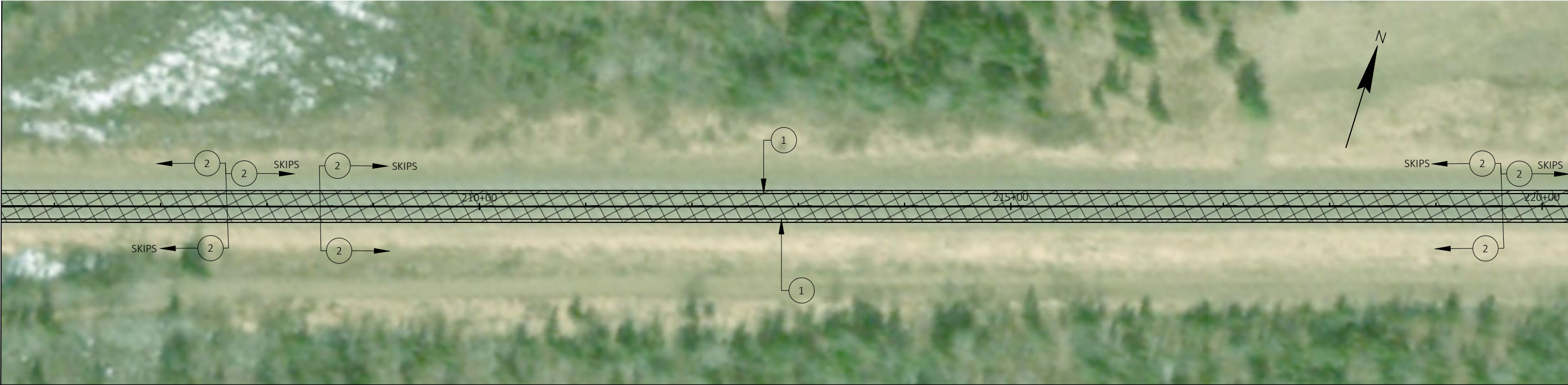


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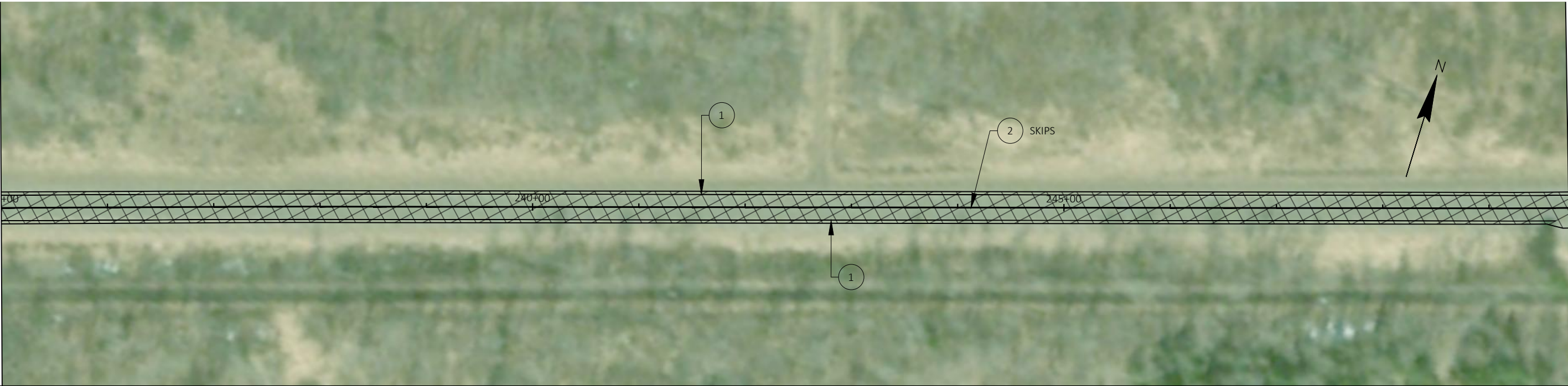
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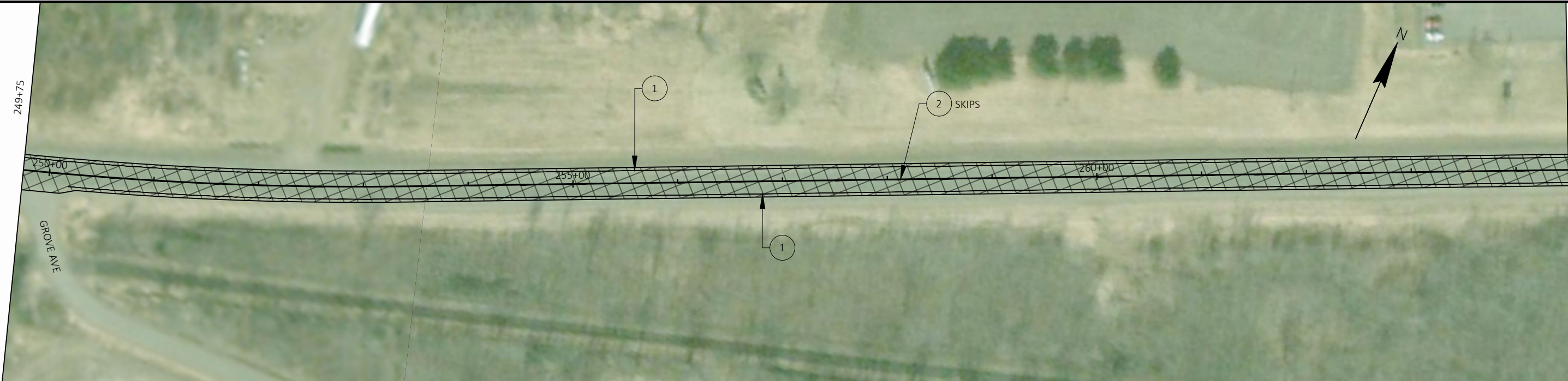


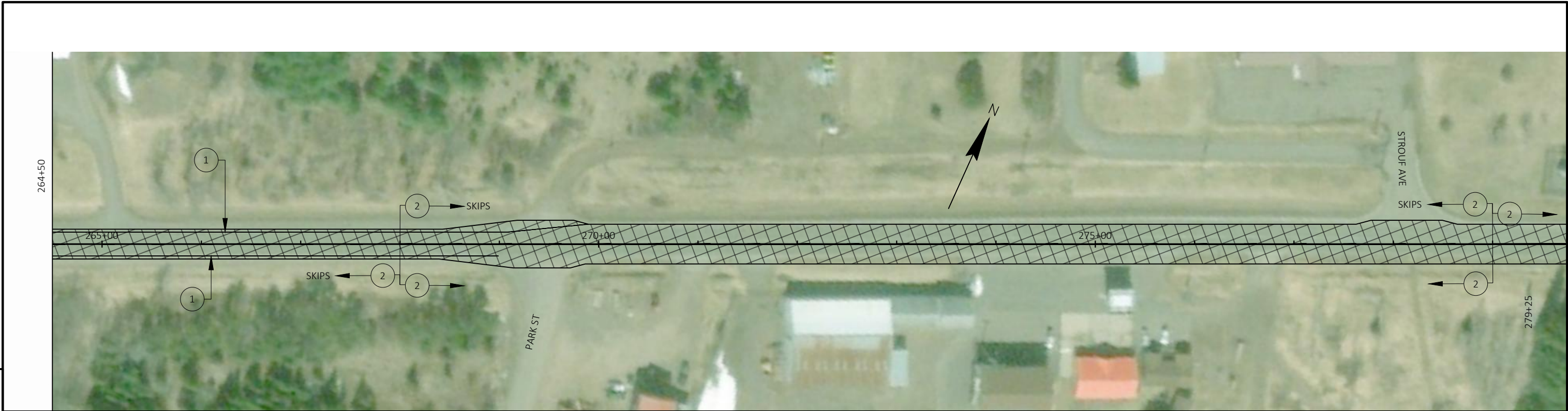


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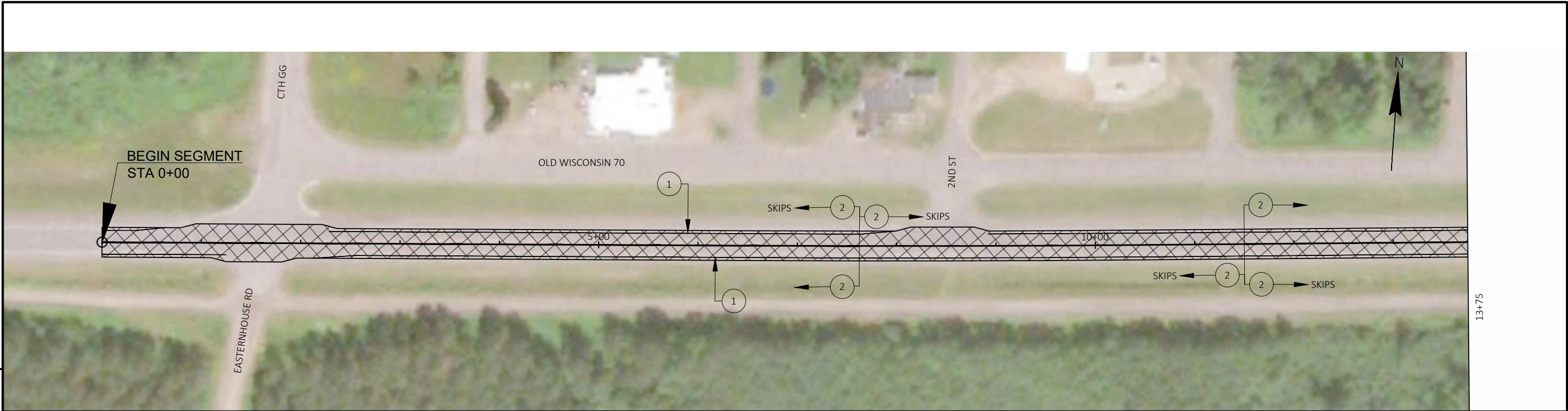




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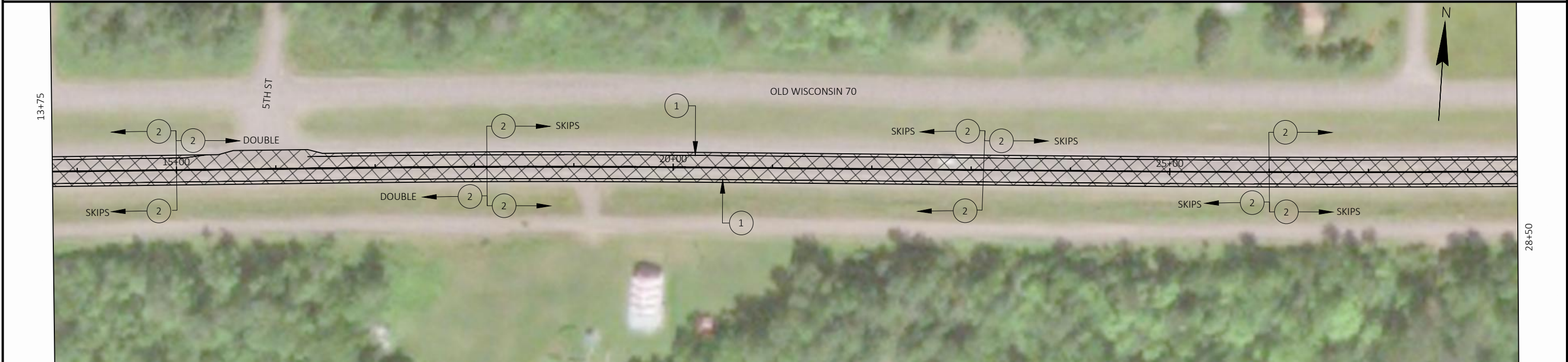
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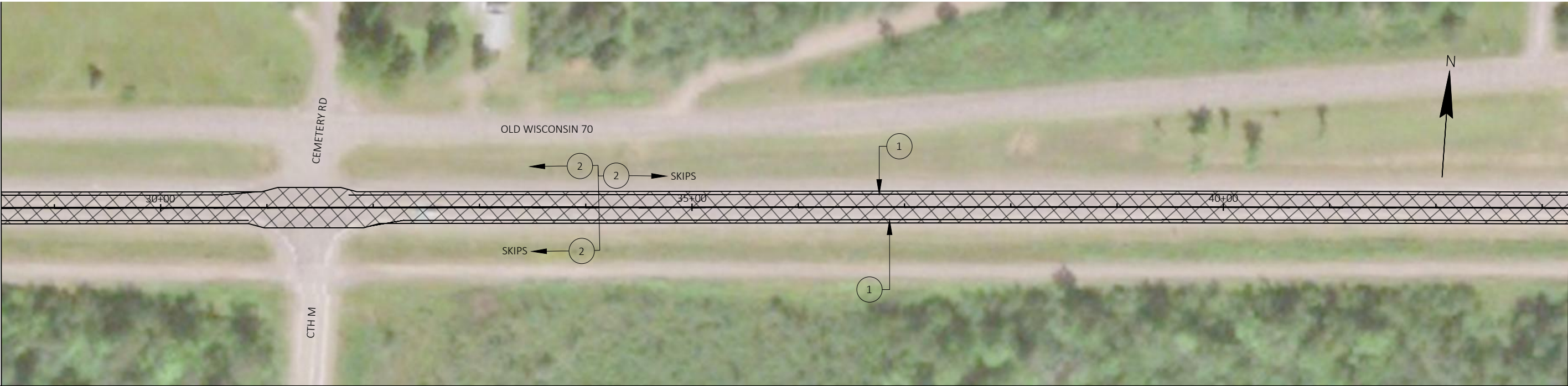
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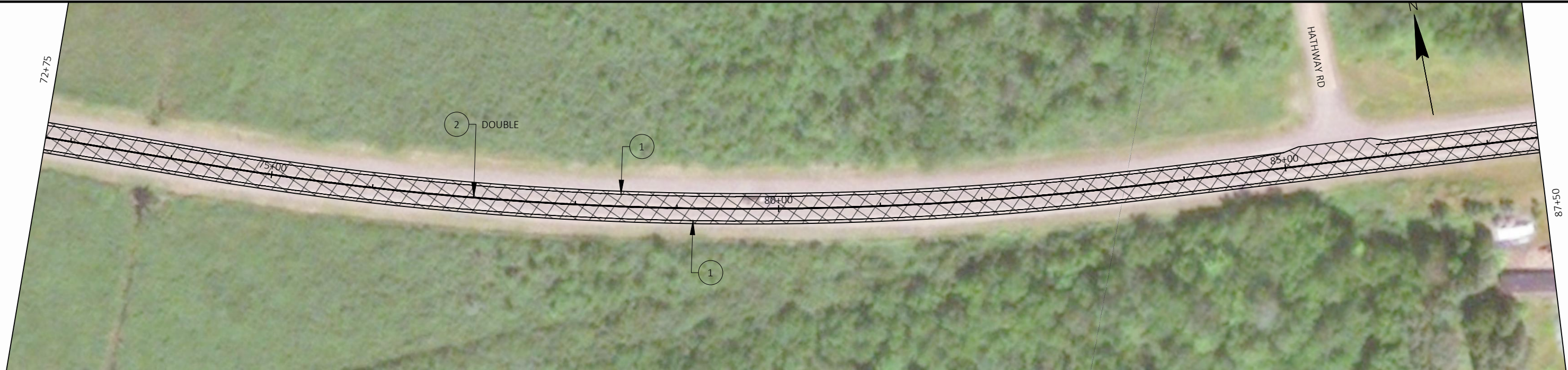


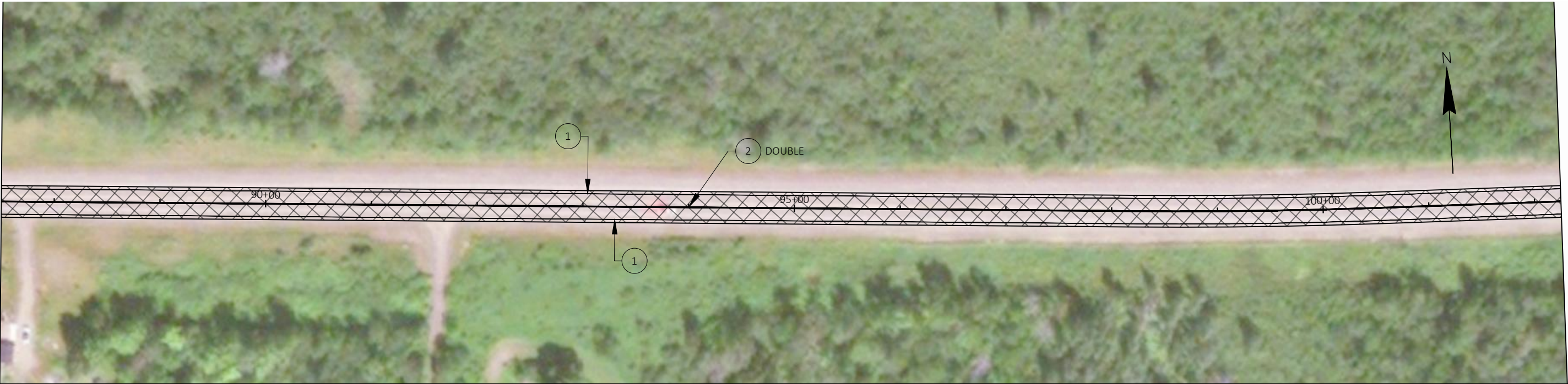


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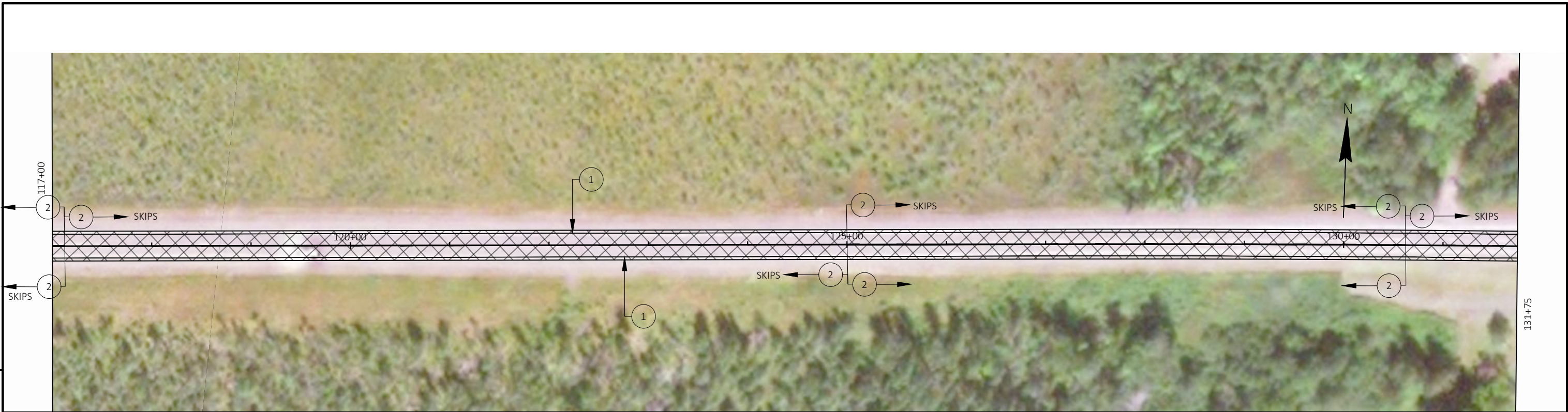


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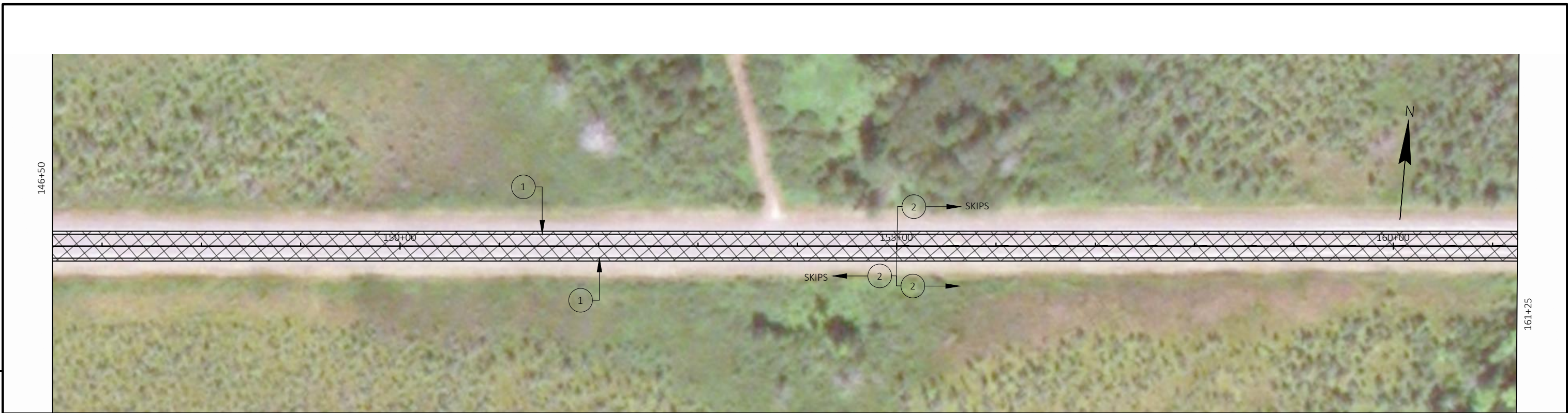
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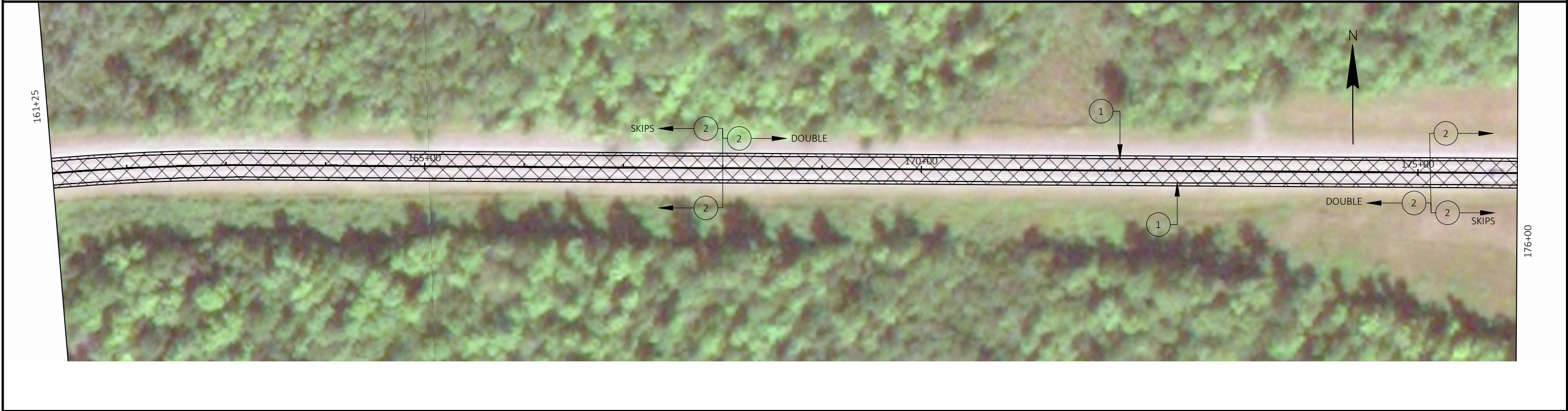


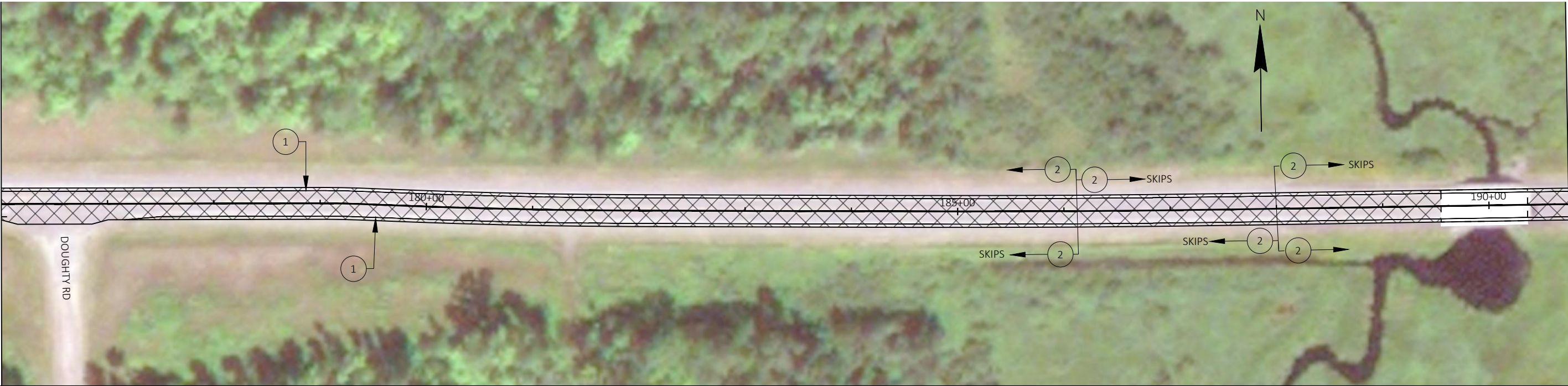


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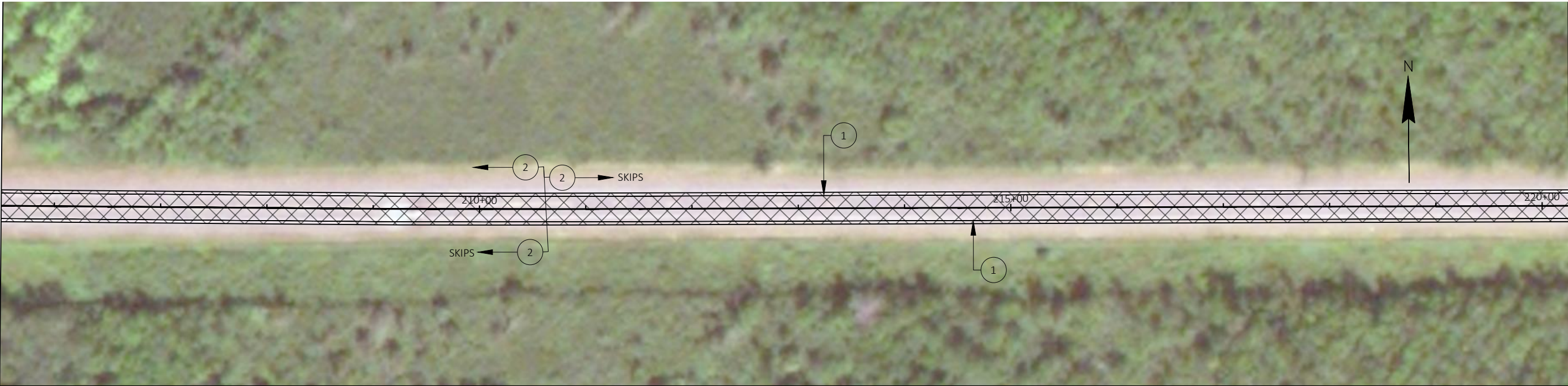


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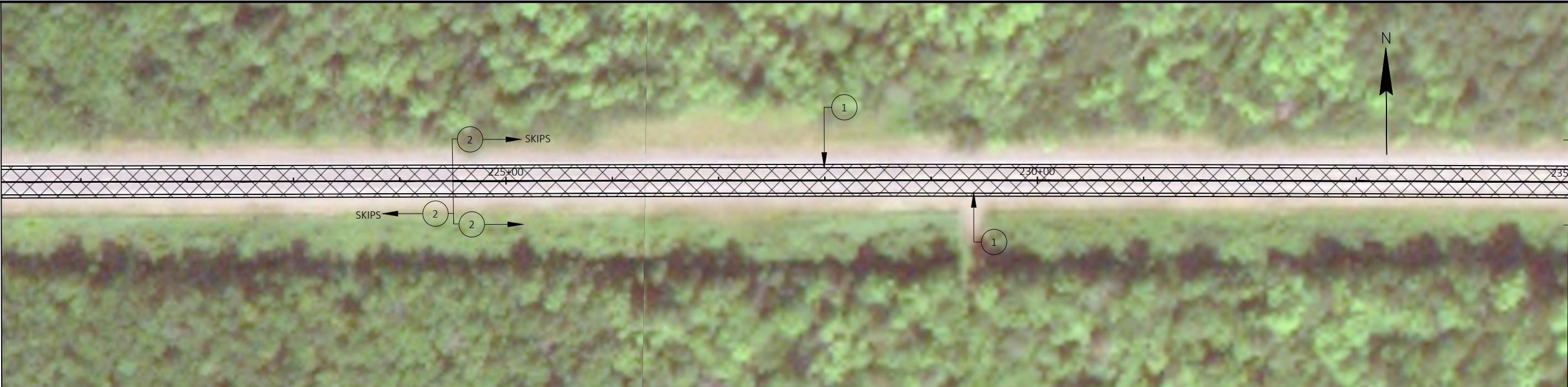




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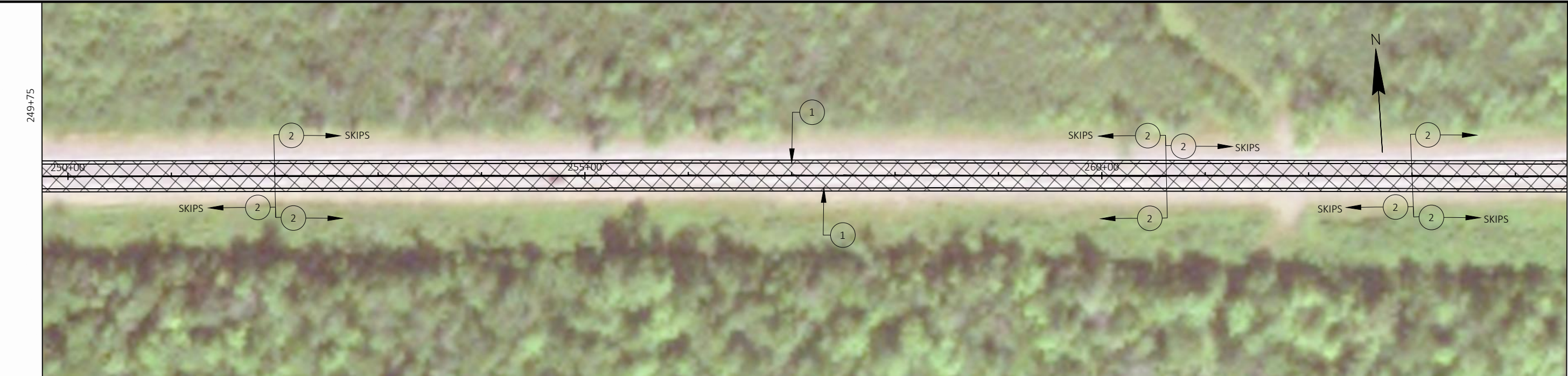


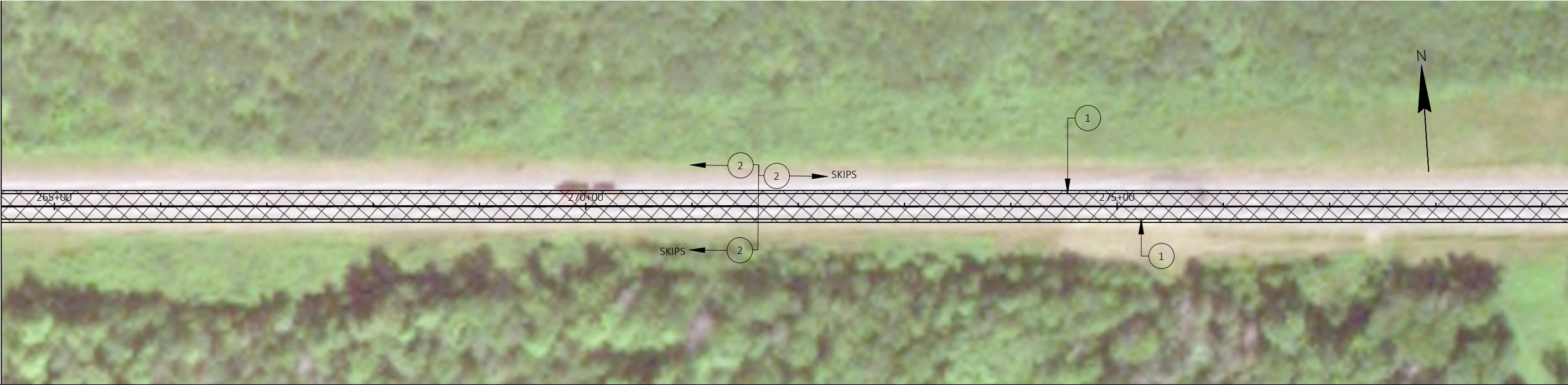


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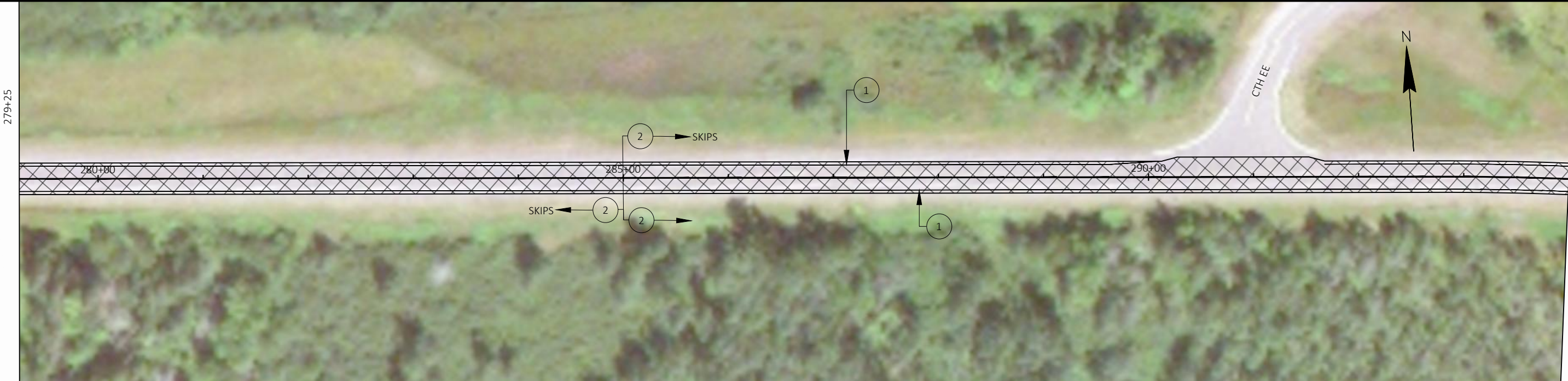




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- MARKING LINE PAINT 4-INCH (YELLOW)
- MARKING LINE PAINT 8-INCH (WHITE)

LEGEND

- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
- MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
- MARKING ARROW PAINT (TYPE 2) (WHITE)
- MARKING WORK PAINT (WHITE)



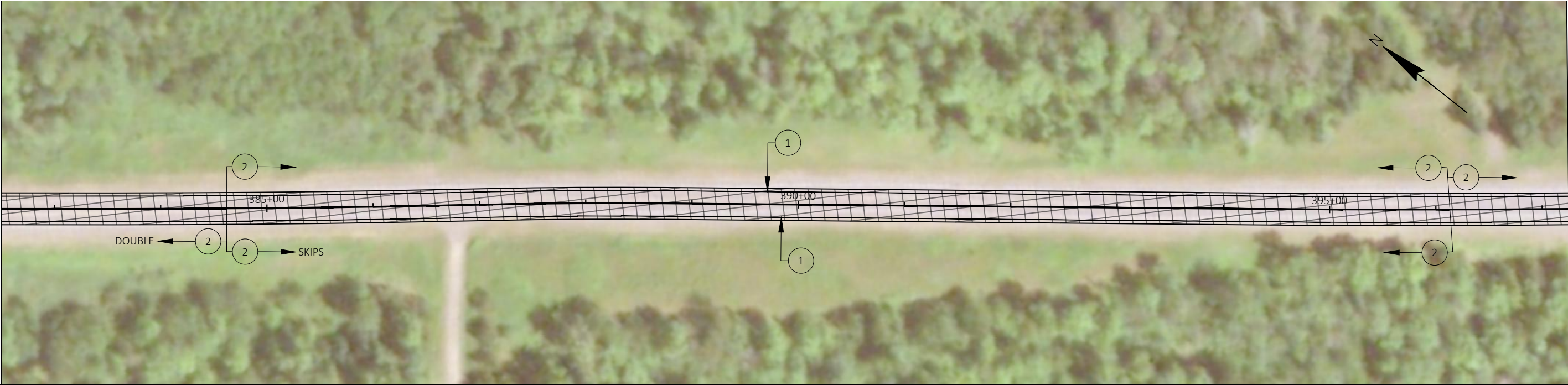


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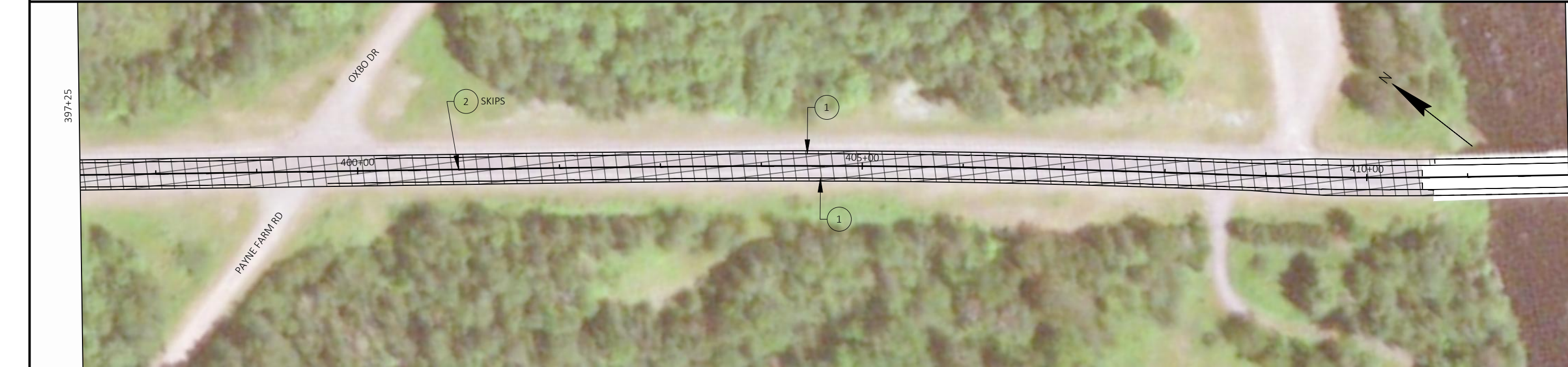




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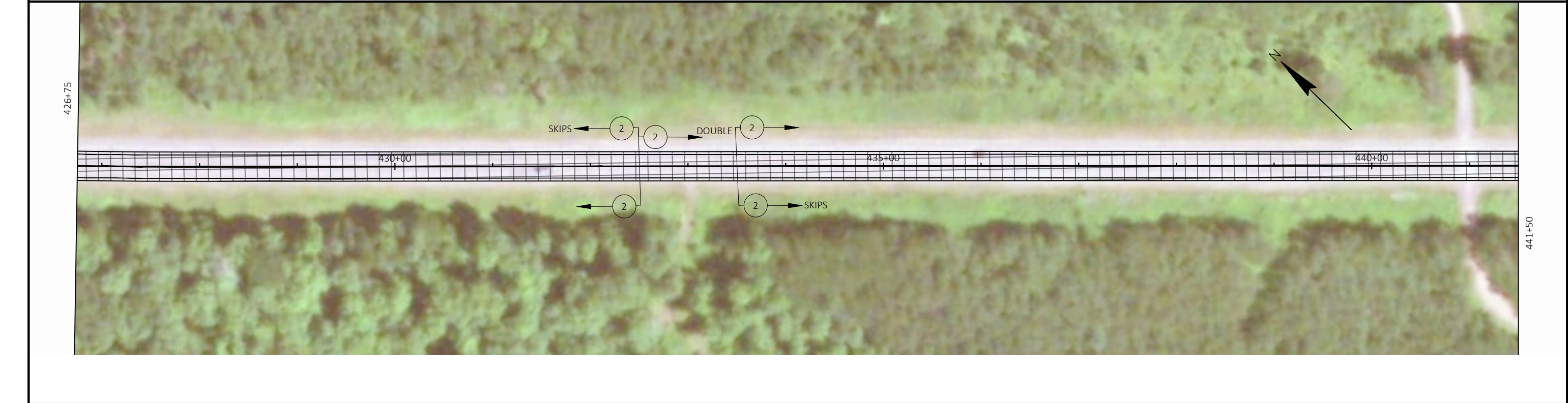


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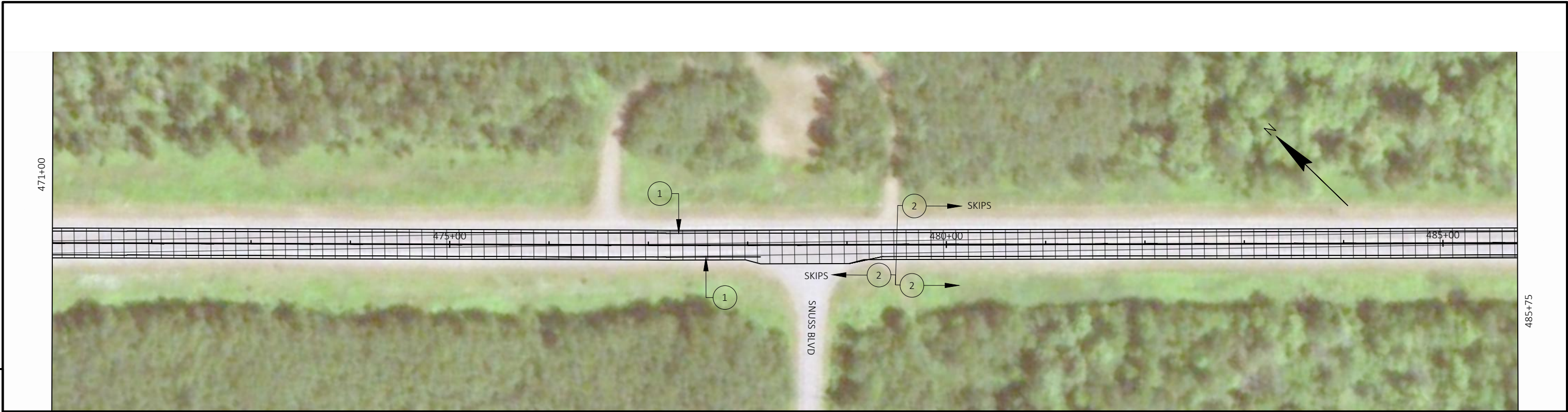


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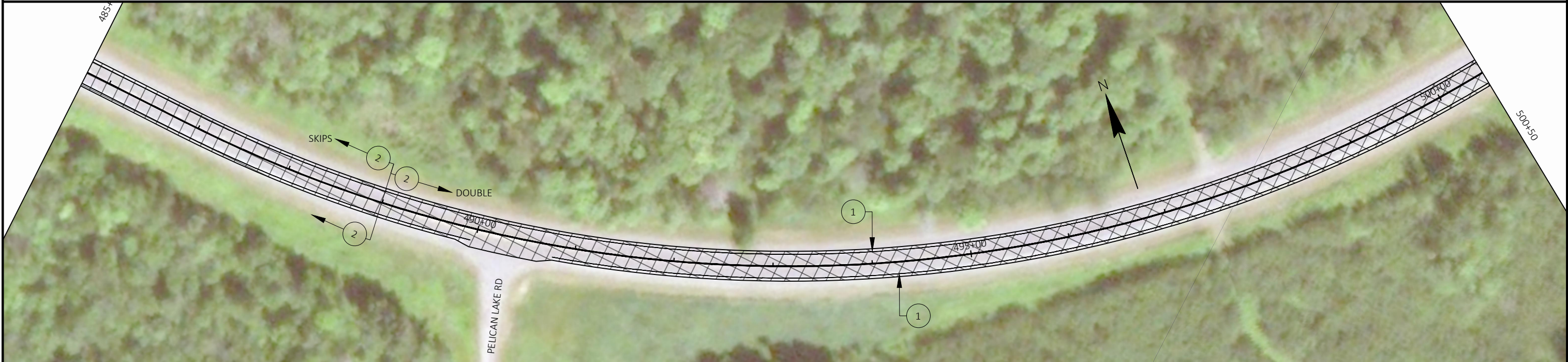




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



- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
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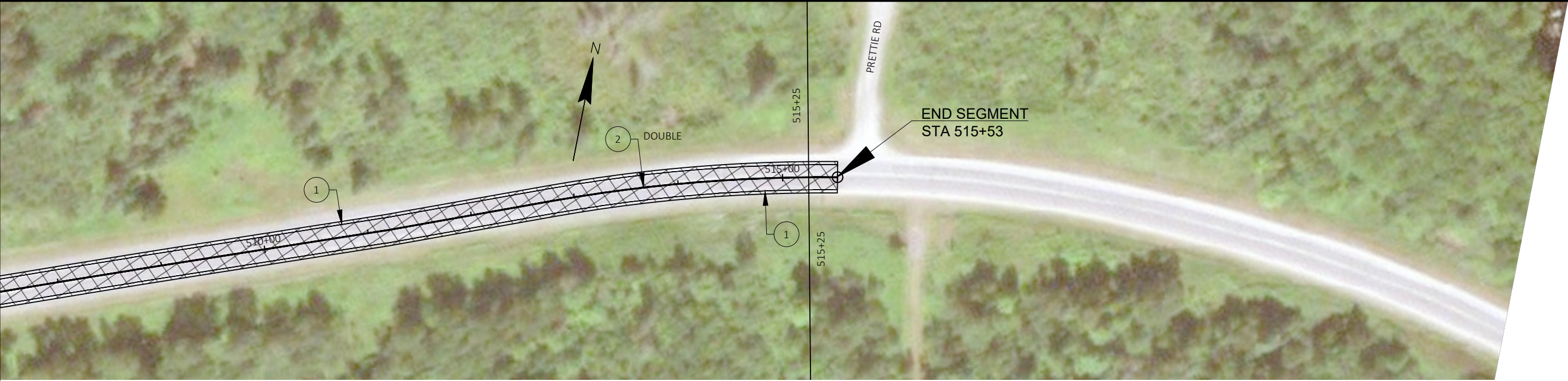


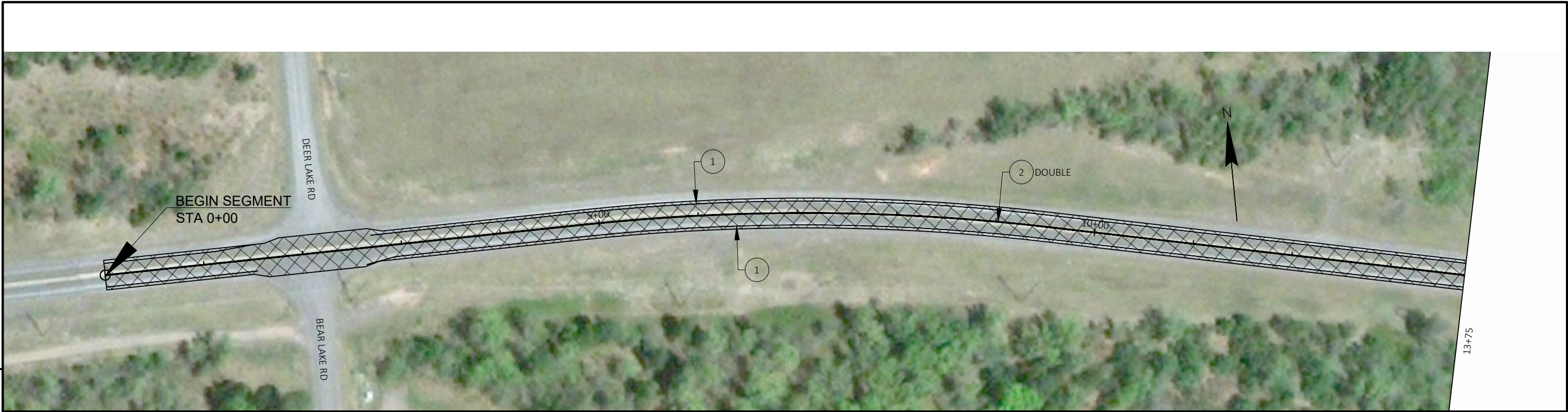


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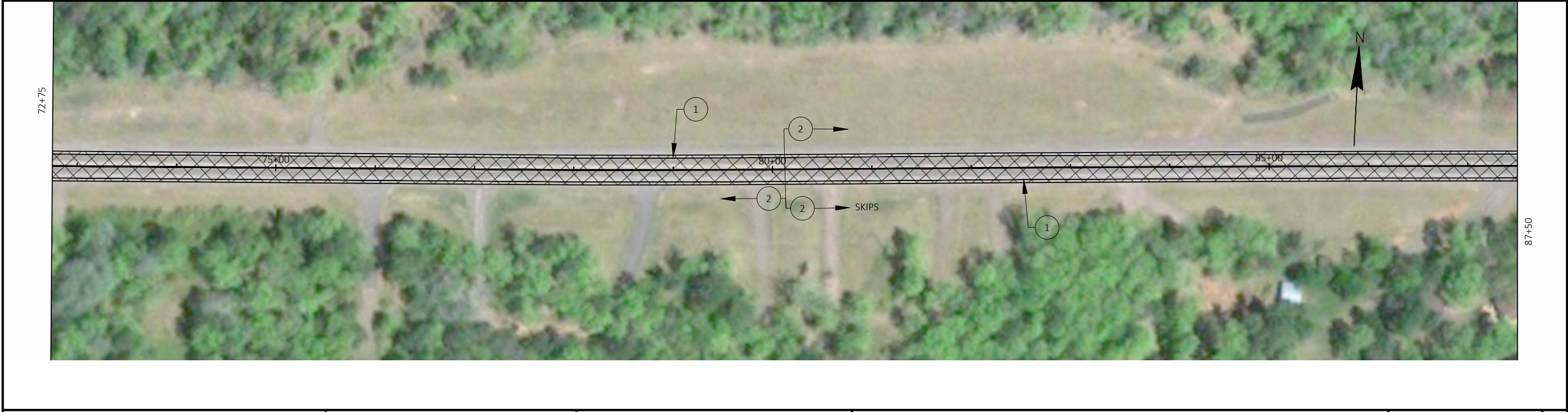


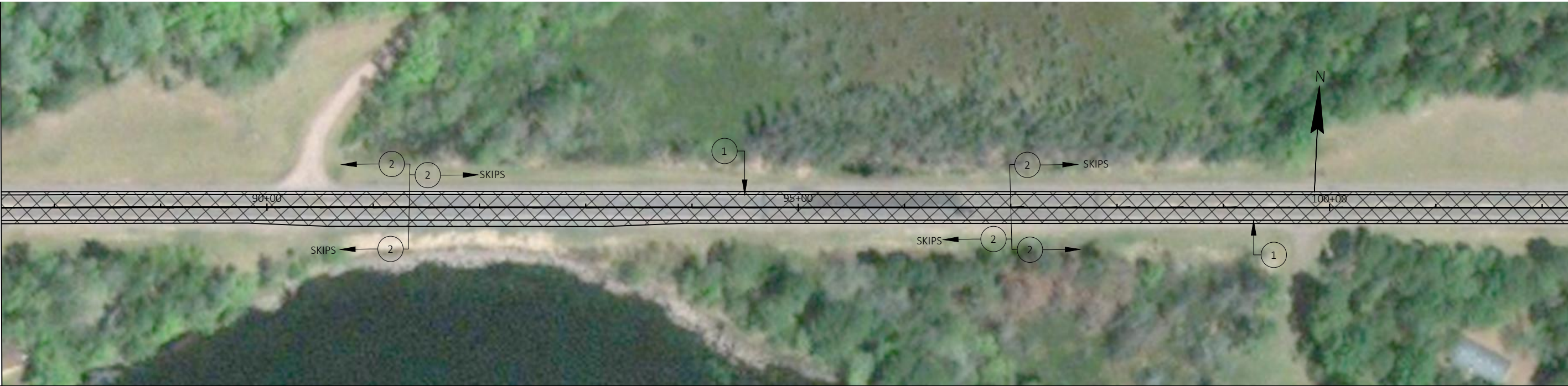
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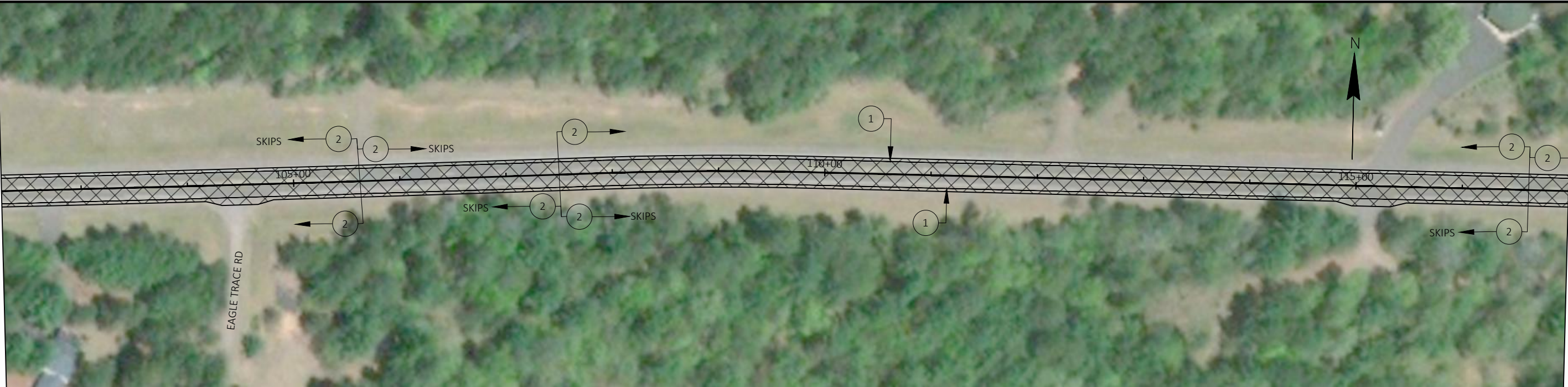


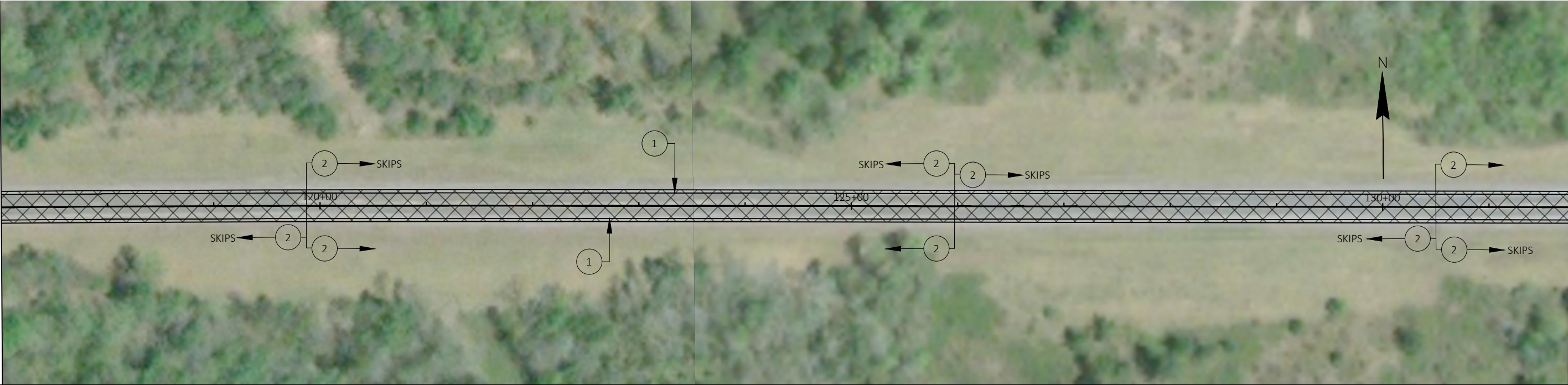


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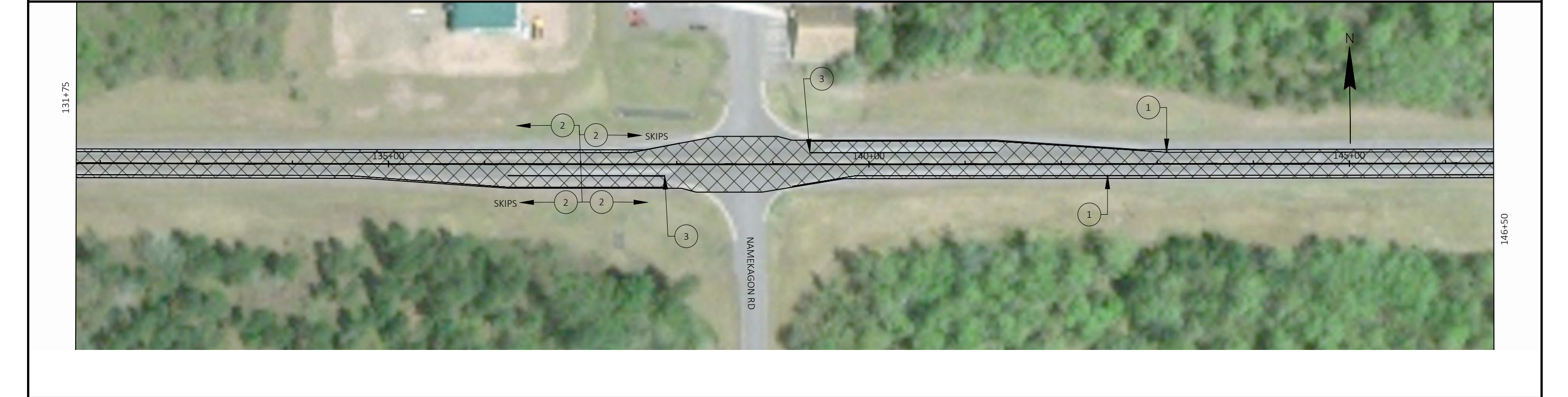


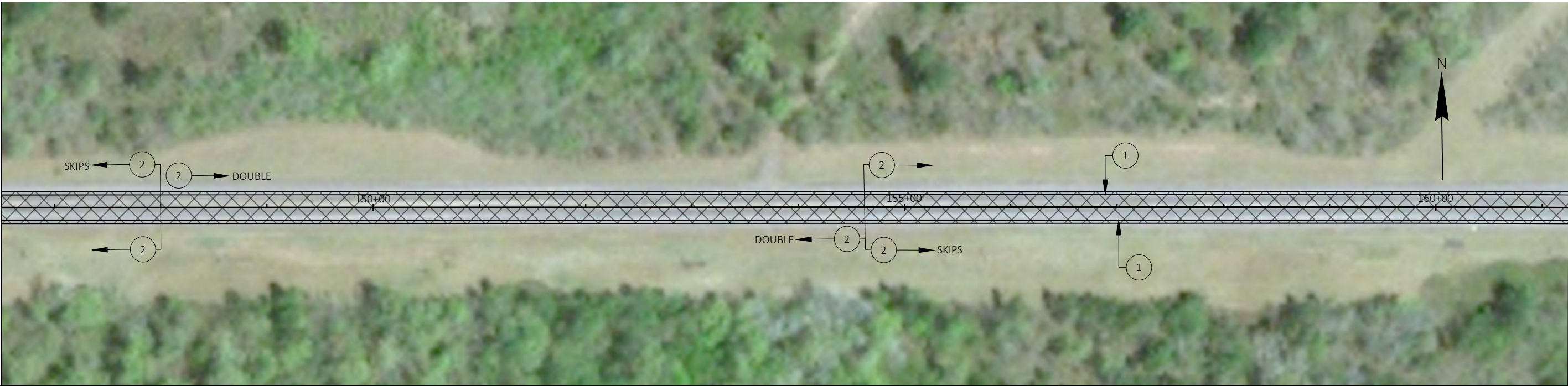


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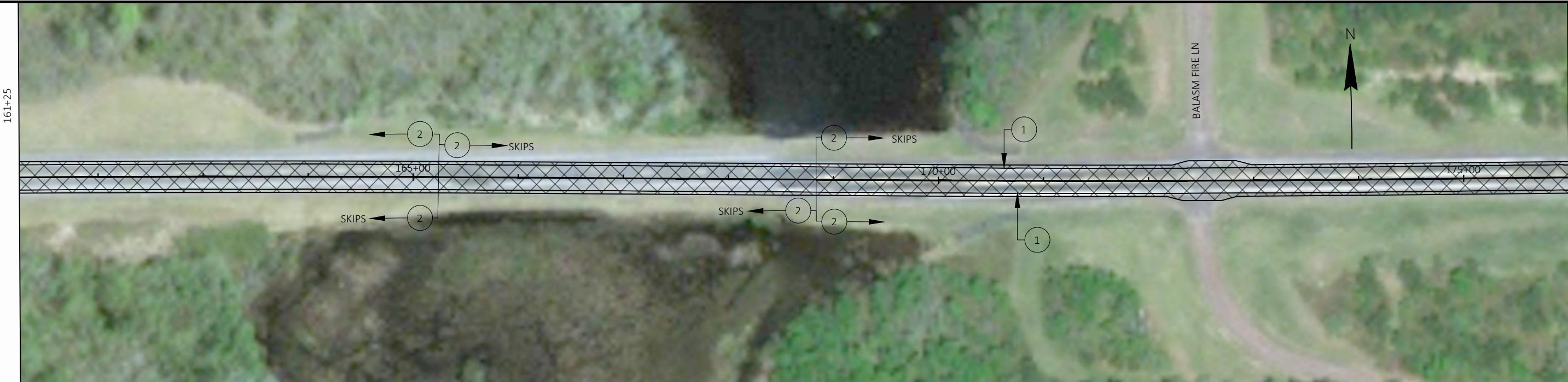


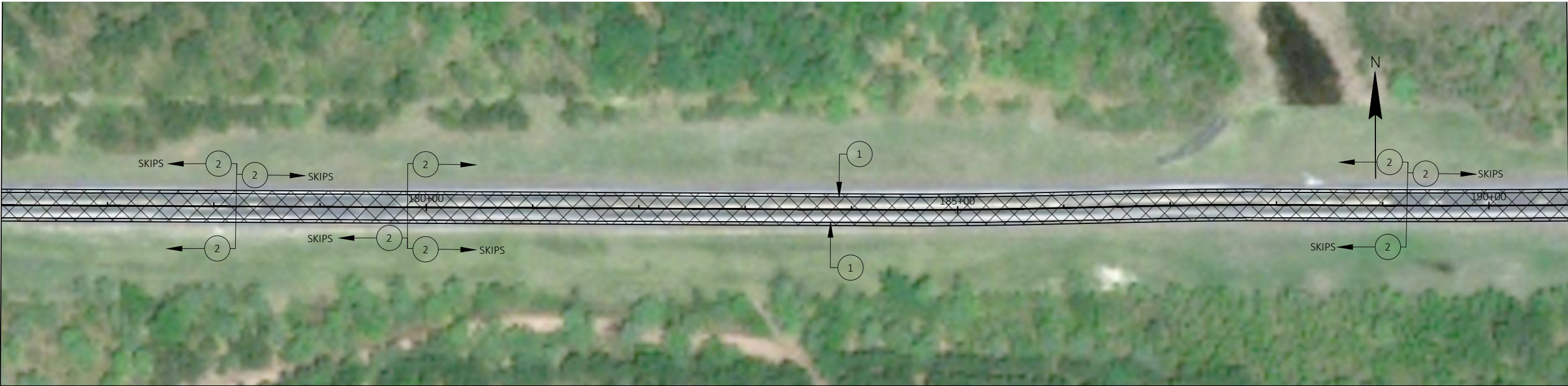


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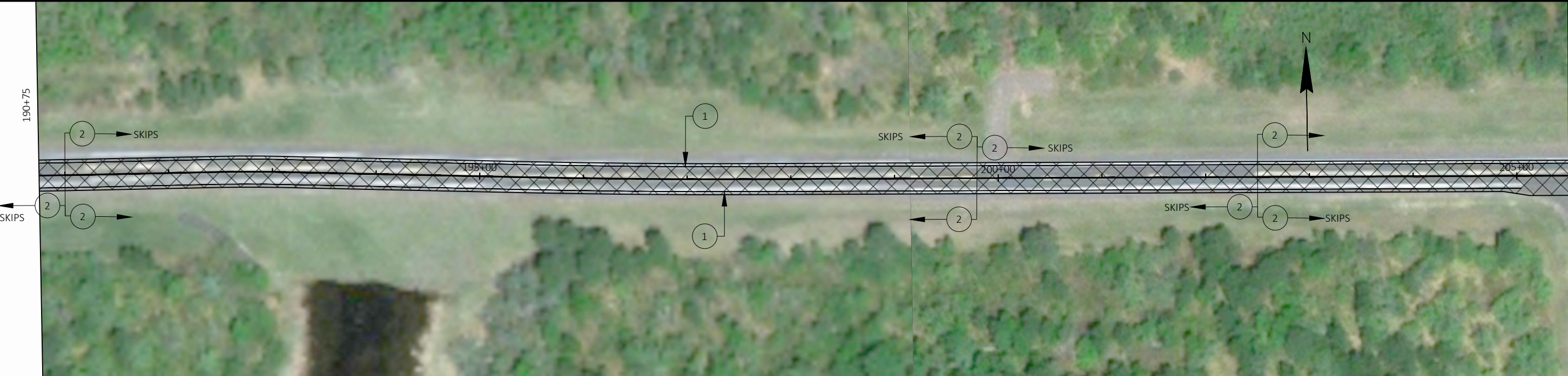


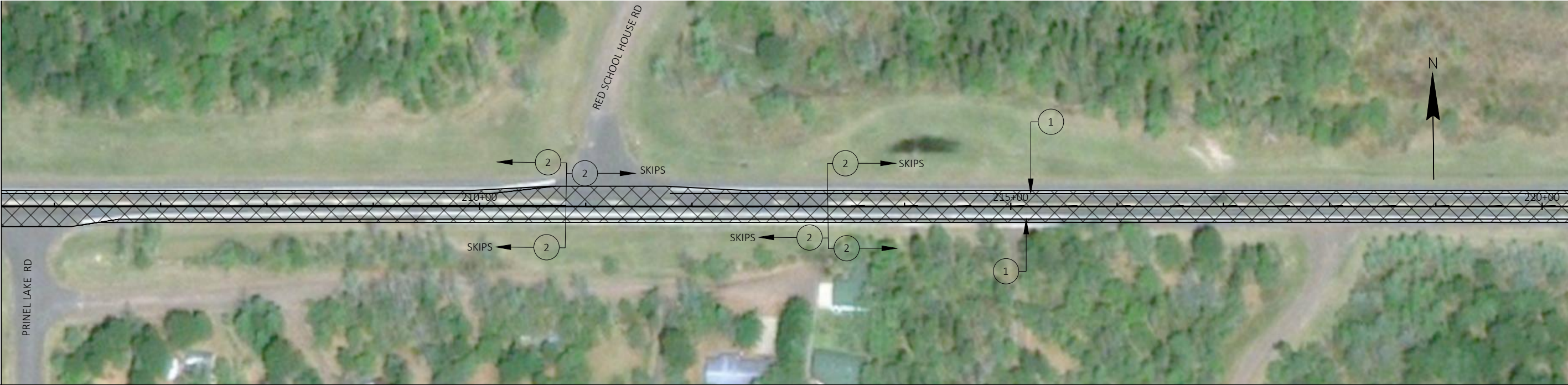


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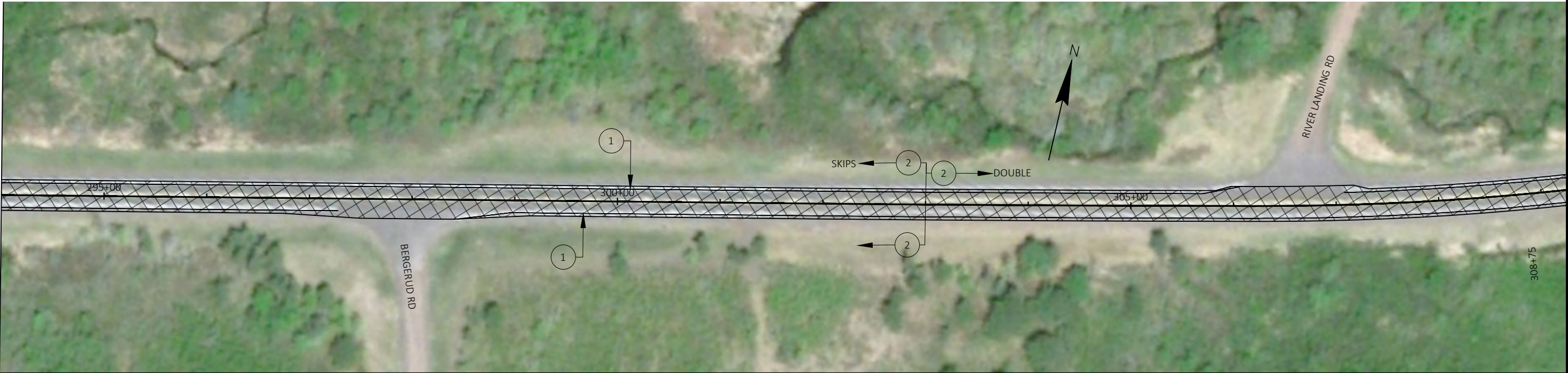


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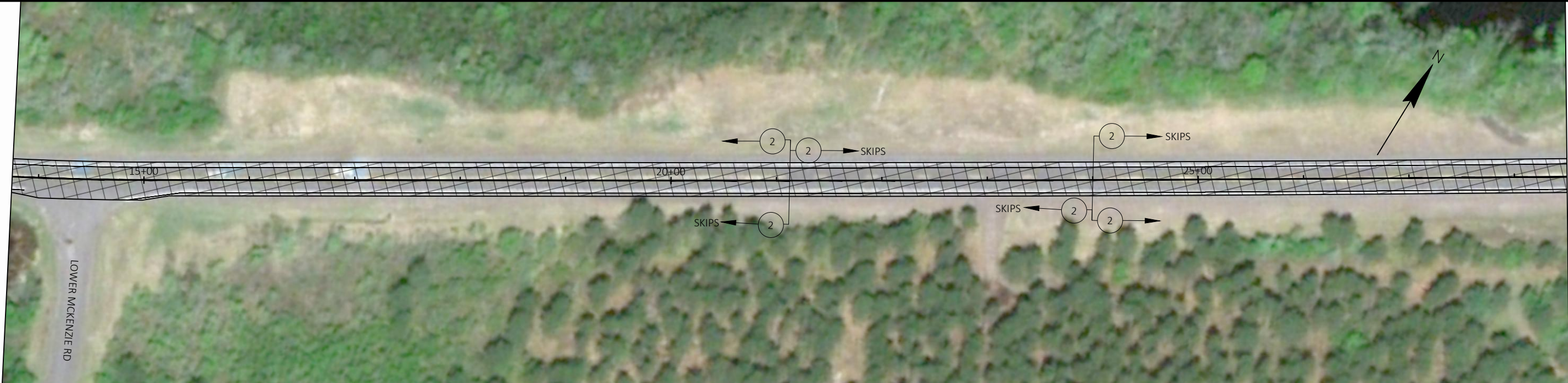




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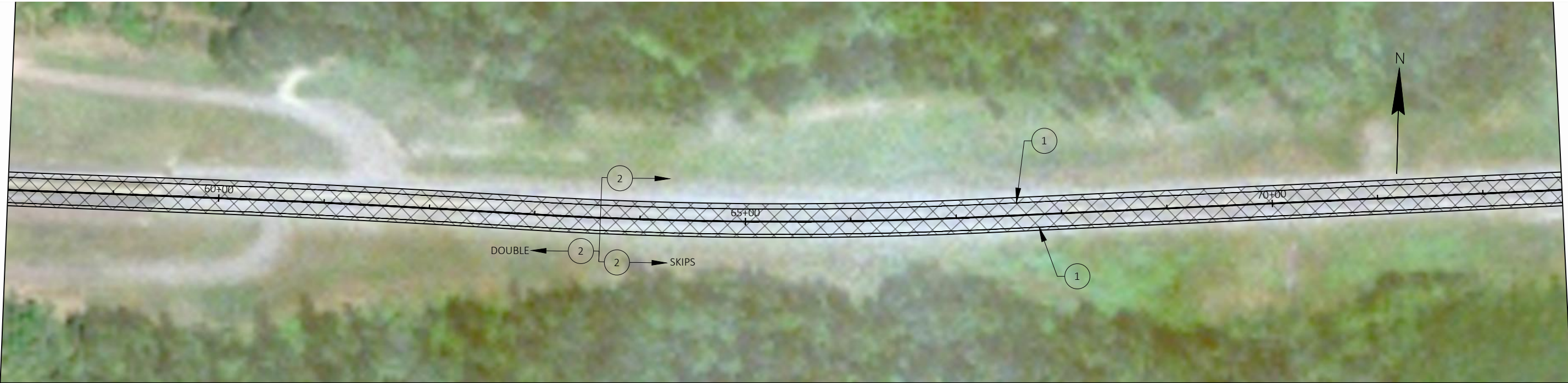
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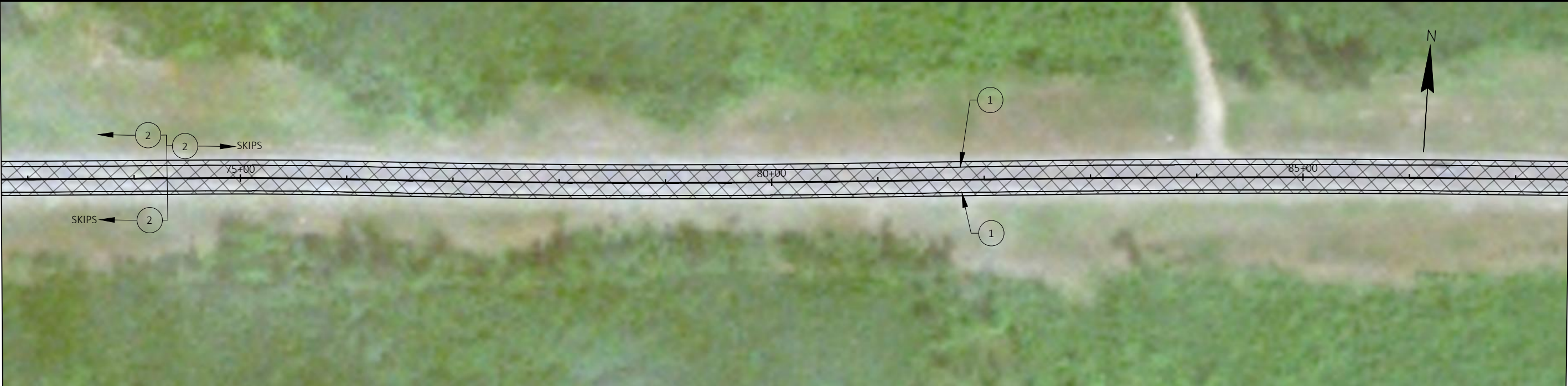


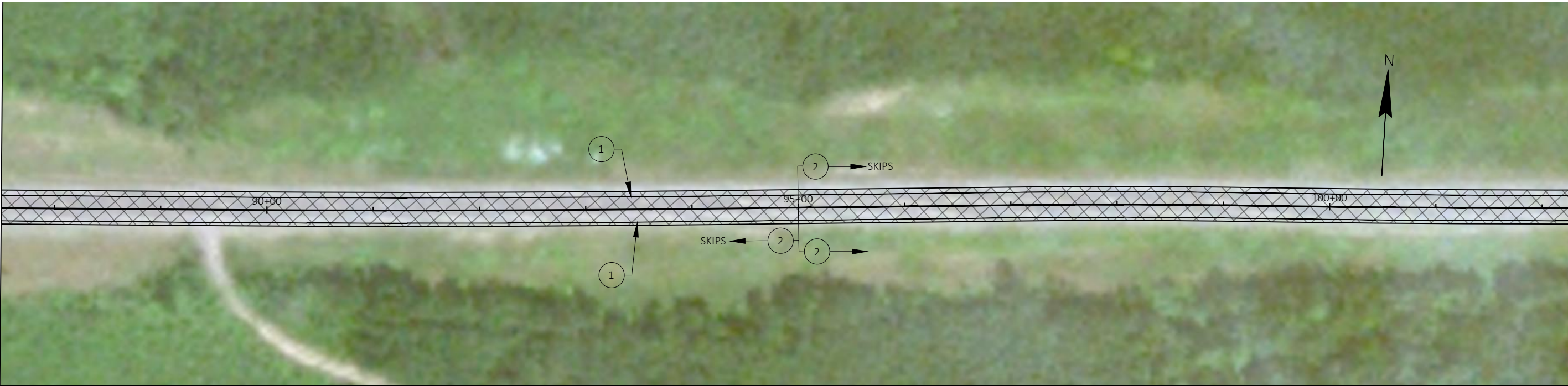


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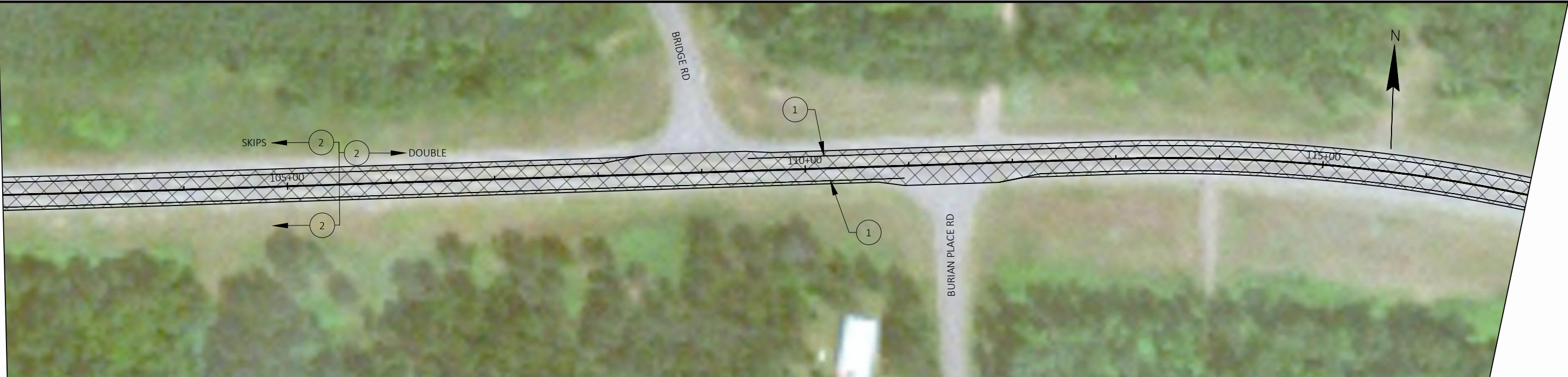




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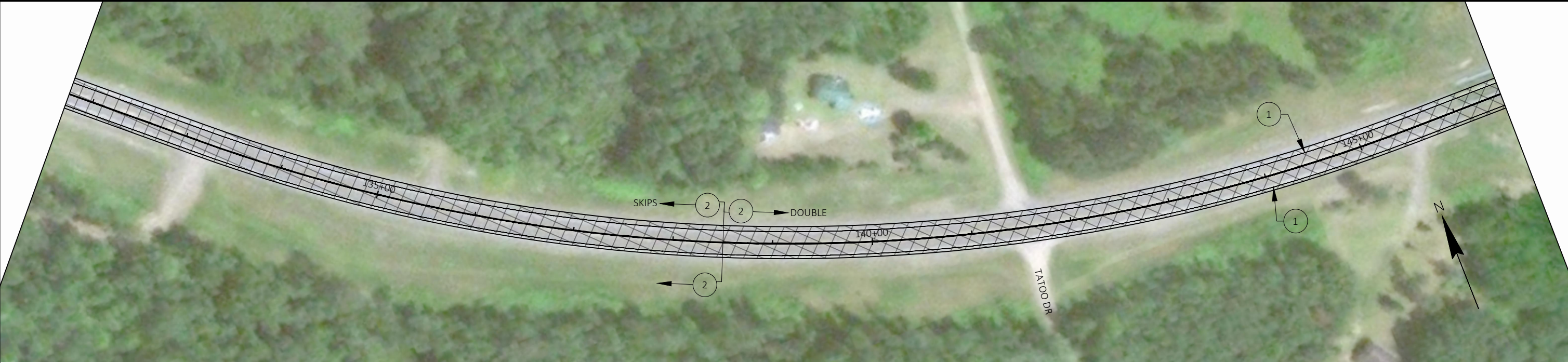


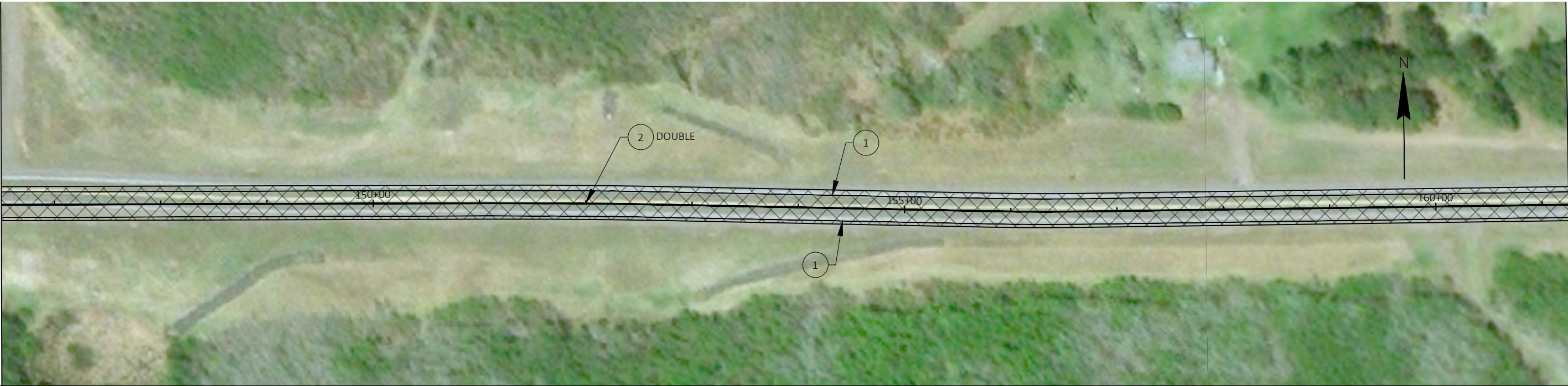


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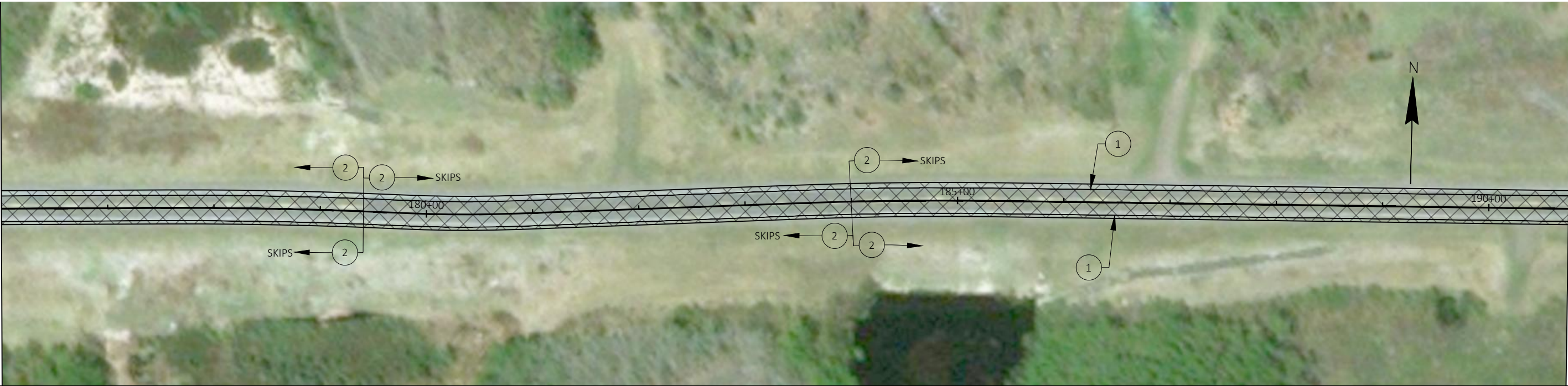


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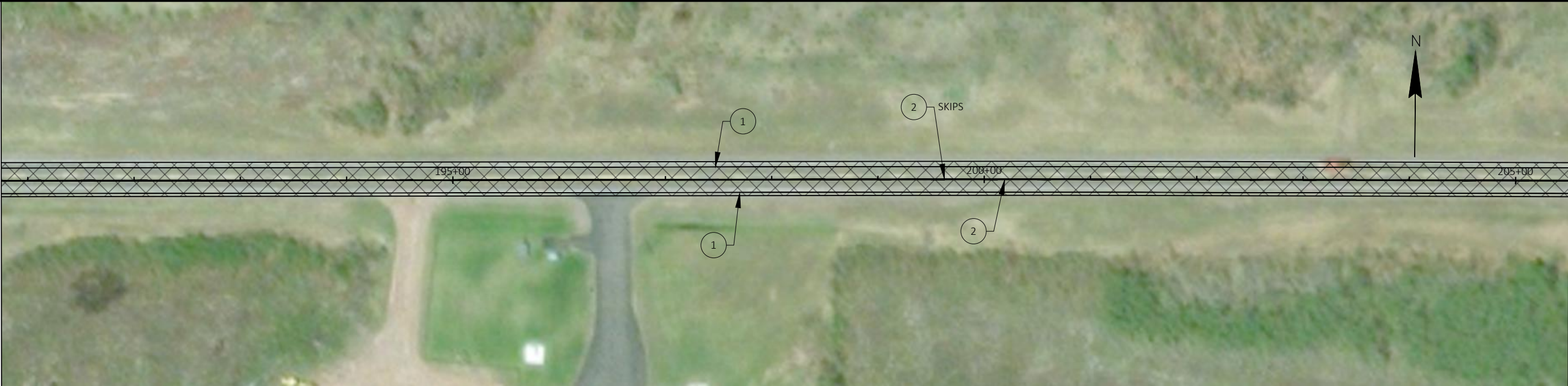


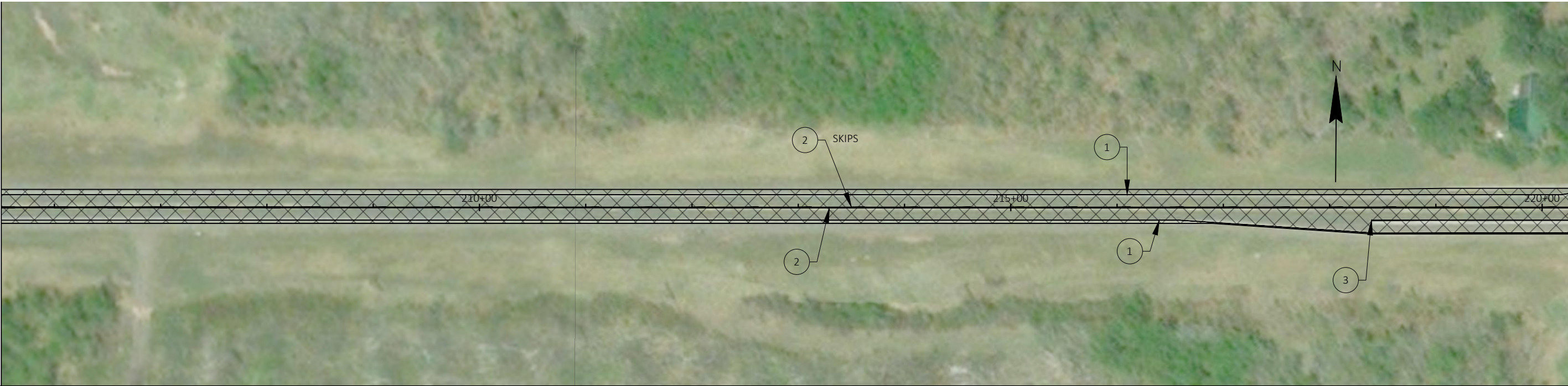
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



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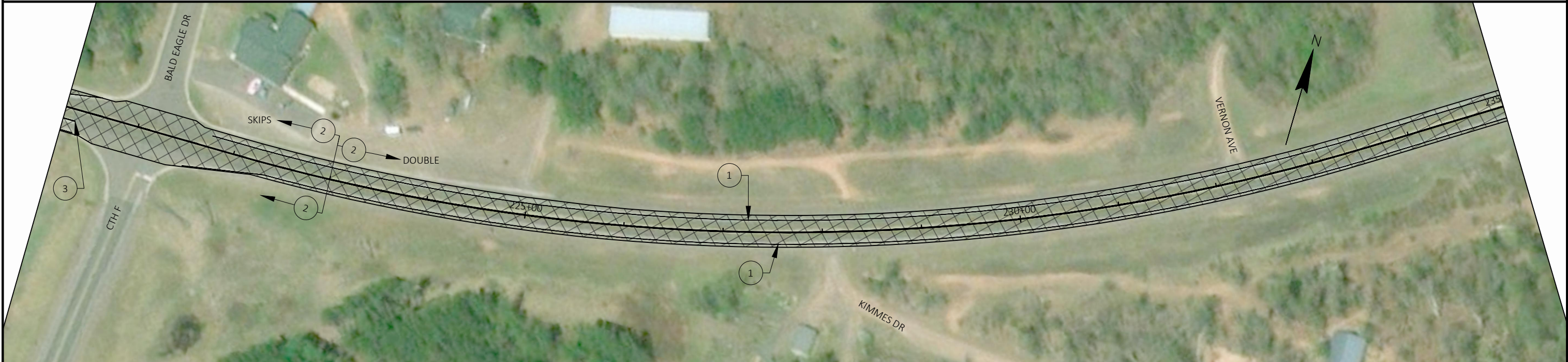


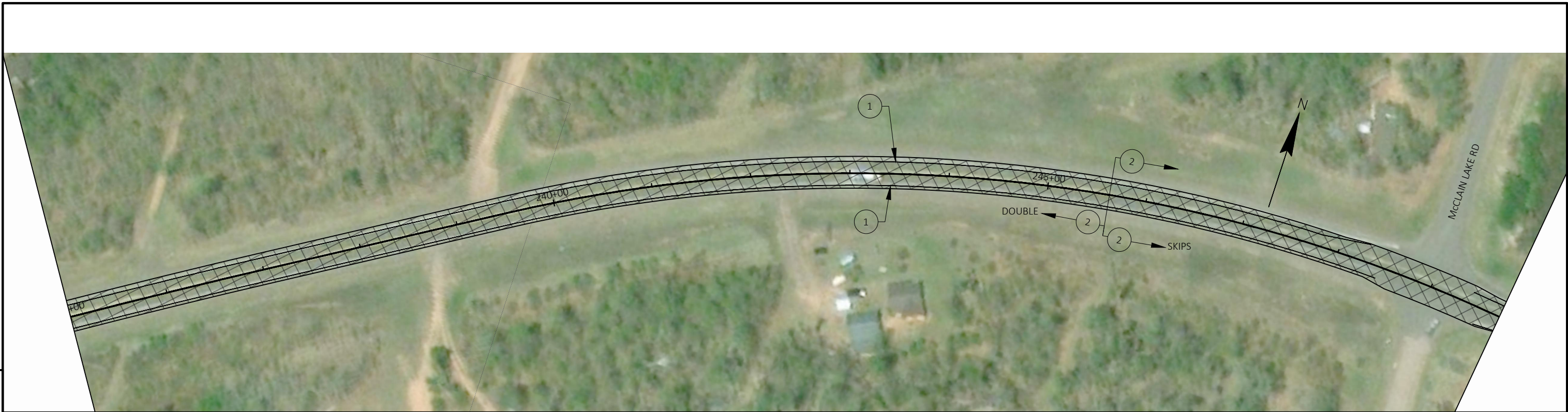


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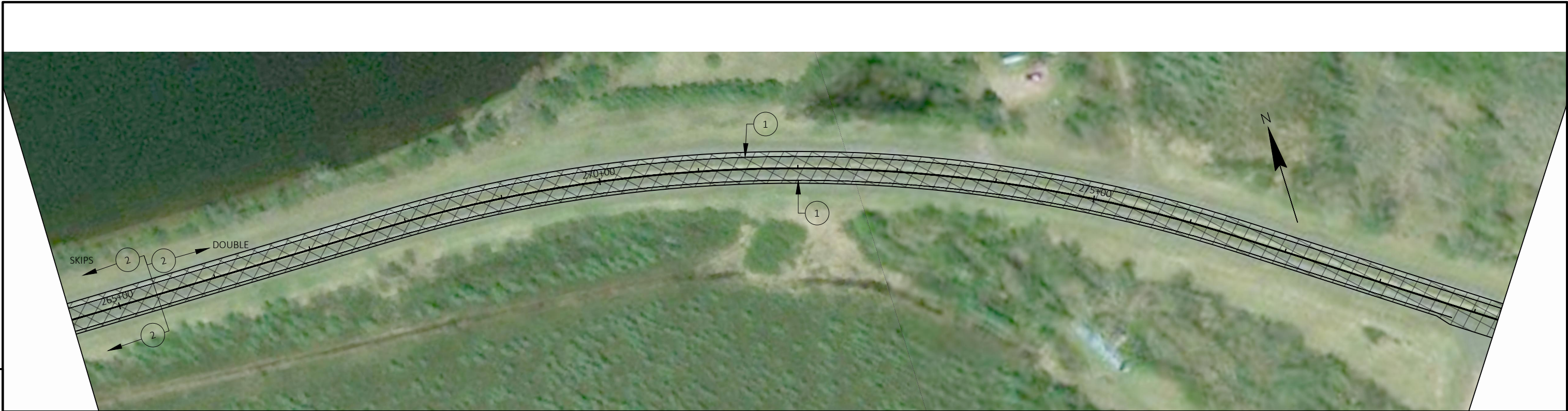
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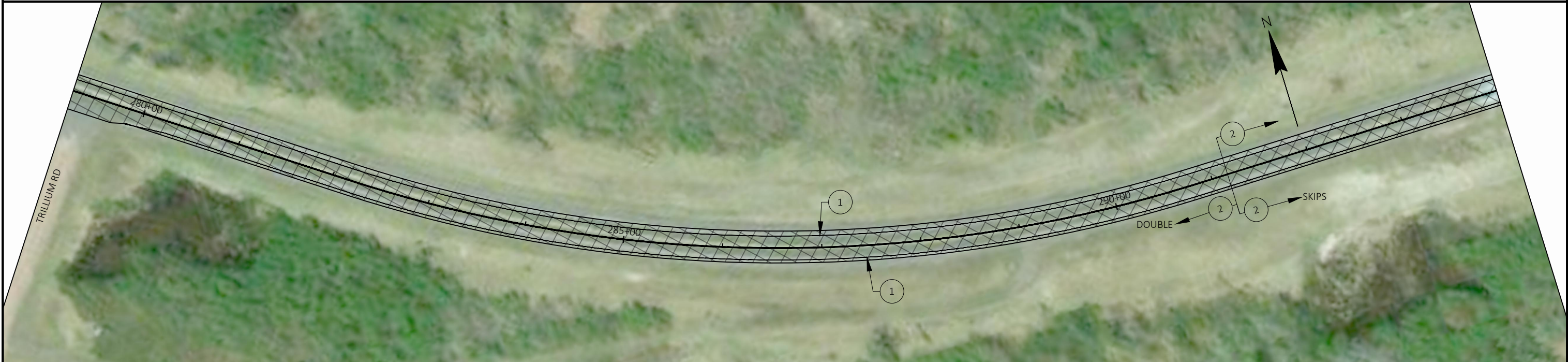


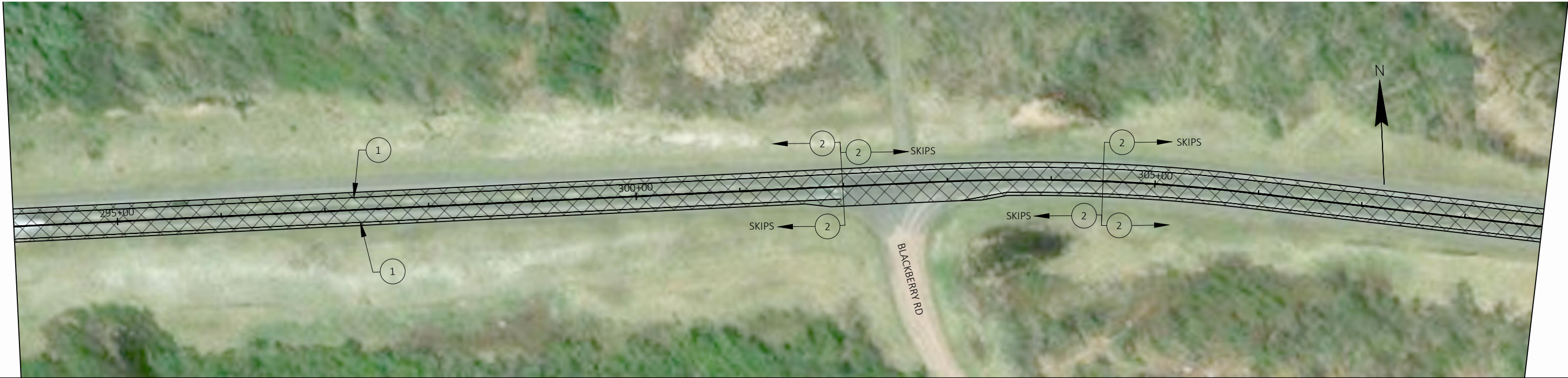


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- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
 - 4 MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)
 - 5 MARKING ARROW PAINT (TYPE 2) (WHITE)
 - 6 MARKING WORK PAINT (WHITE)



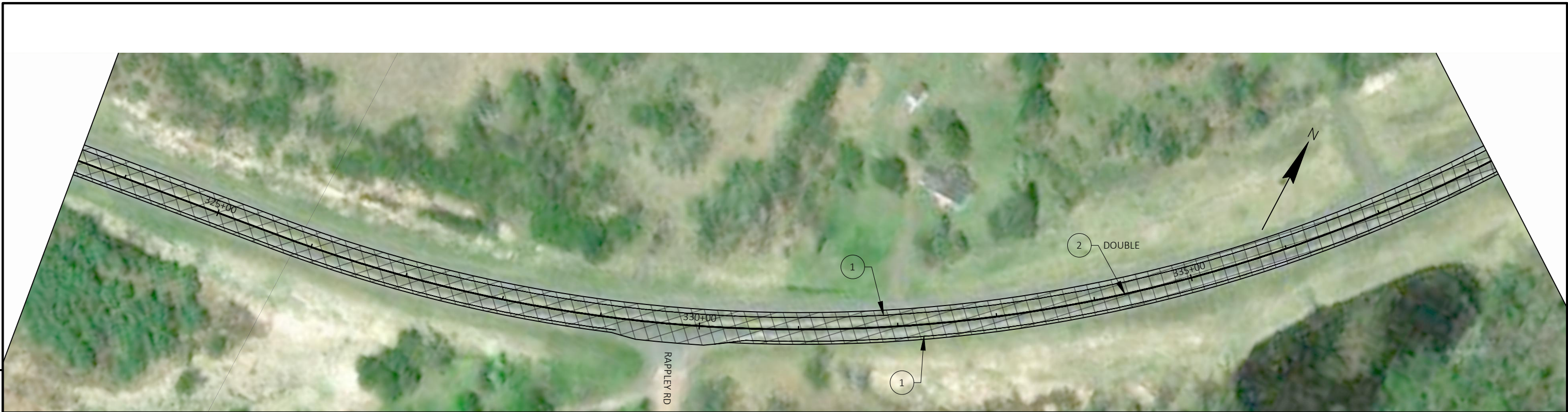


NOTES:
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- CHIP/ SCRUB & FOG SEAL AREA
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- 3 MARKING LINE PAINT 8-INCH (WHITE)

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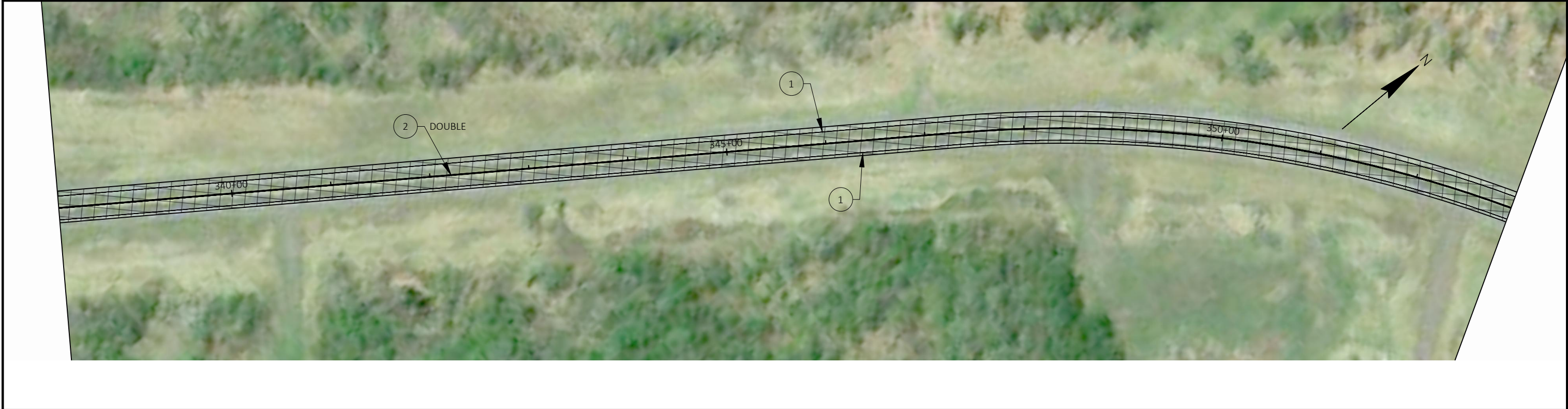


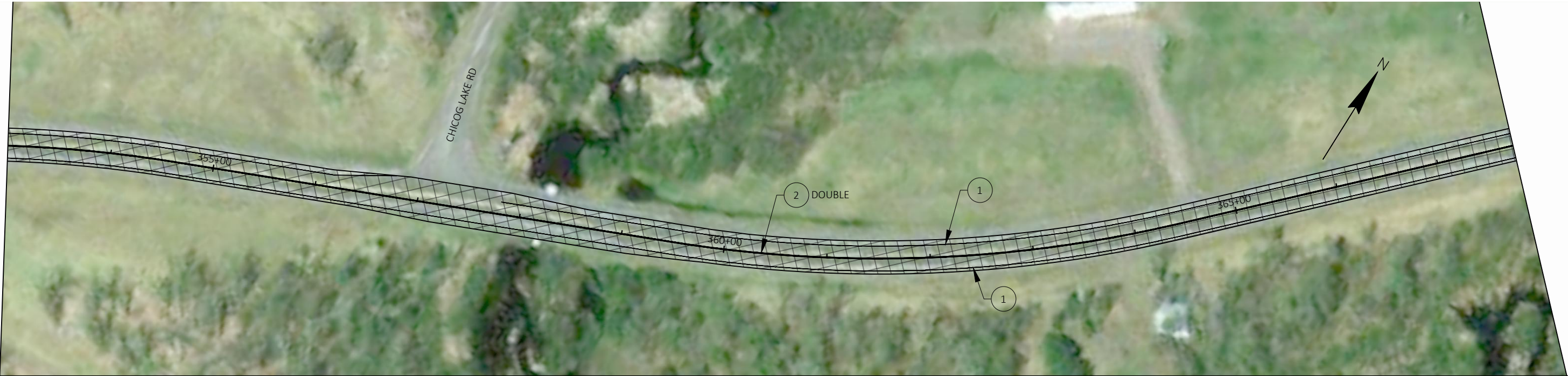


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5

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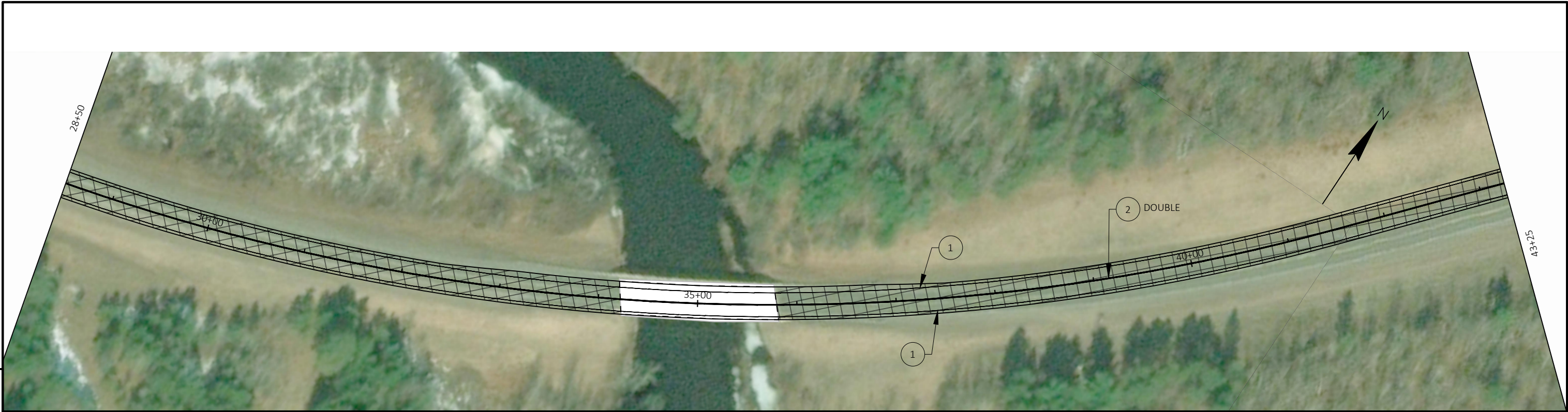
- CHIP/ SCRUB & FOG SEAL AREA
- 1 MARKING LINE PAINT 4-INCH (WHITE)
- 2 MARKING LINE PAINT 4-INCH (YELLOW)
- 3 MARKING LINE PAINT 8-INCH (WHITE)

LEGEND

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5





5

NOTES:
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CHIP/ SCRUB & FOG SEAL AREA



MARKING LINE PAINT 4-INCH (WHITE)



MARKING LINE PAINT 4-INCH (YELLOW)



MARKING LINE PAINT 8-INCH (WHITE)

LEGEND



BRIDGE - NO CHIP/ SCRUB & FOG SEAL



MARKING LINE DIAGONAL PAINT 12-INCH (YELLOW)

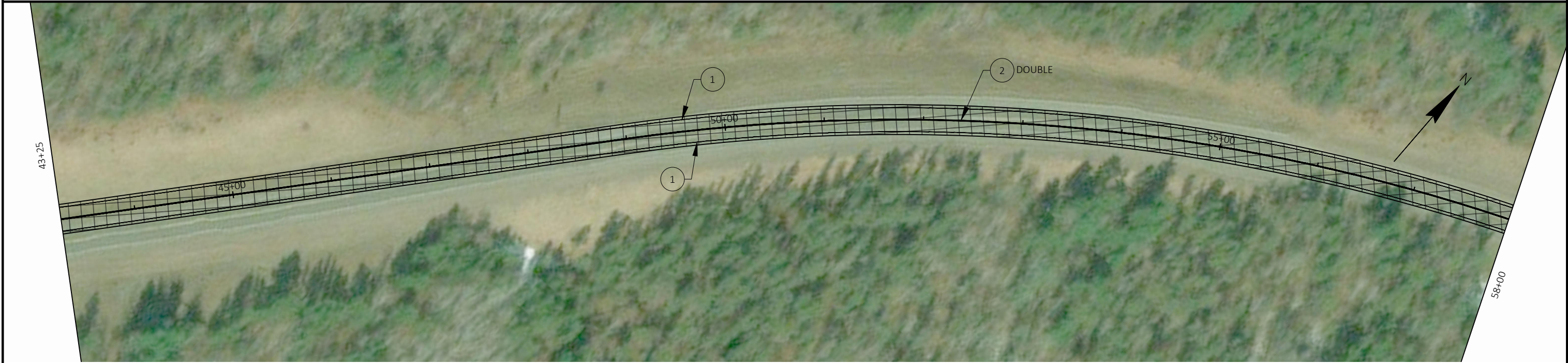


MARKING ARROW PAINT (TYPE 2) (WHITE)



MARKING WORK PAINT (WHITE)

5



PROJECT NO: 1000-18-33

HWY: USH 63

COUNTY: WASHBURN

USH 63 - CHIP & FOG SEAL

SHEET

E

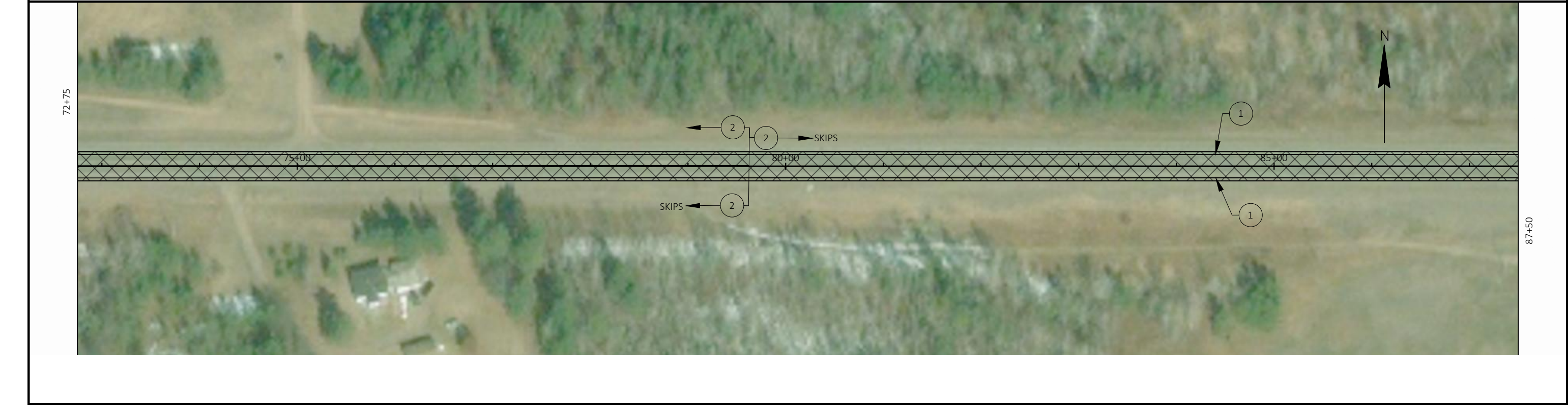


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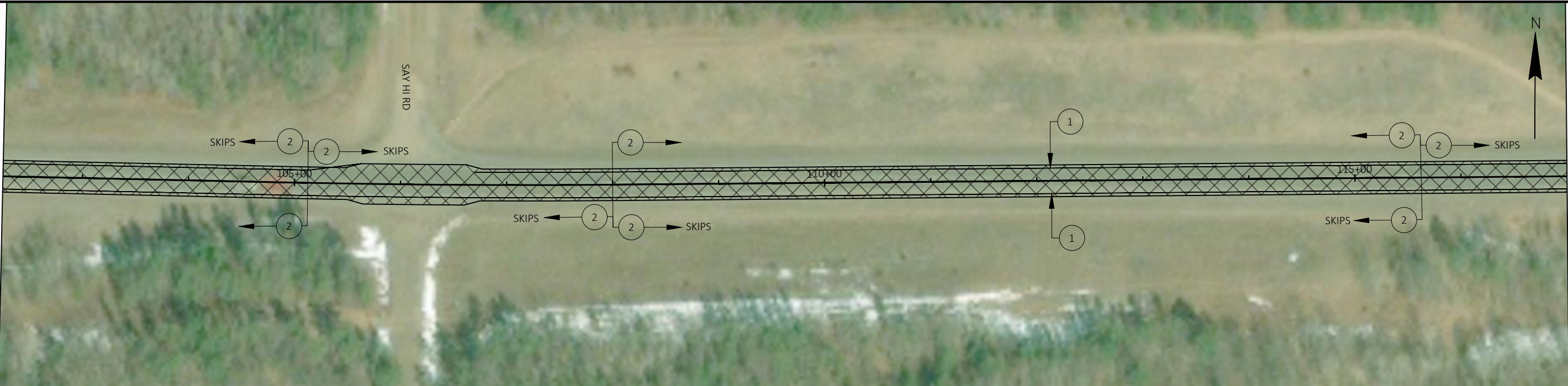




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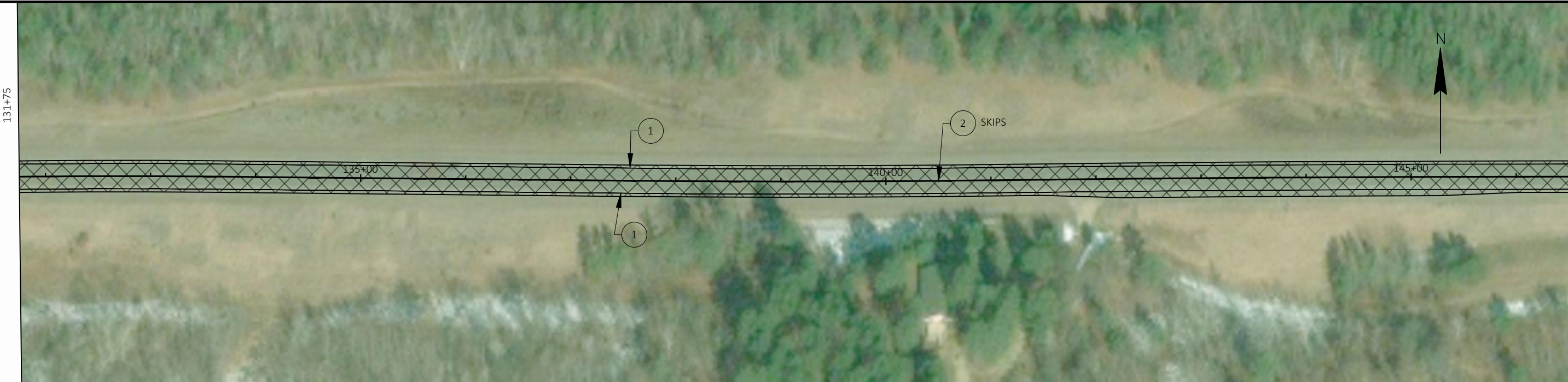


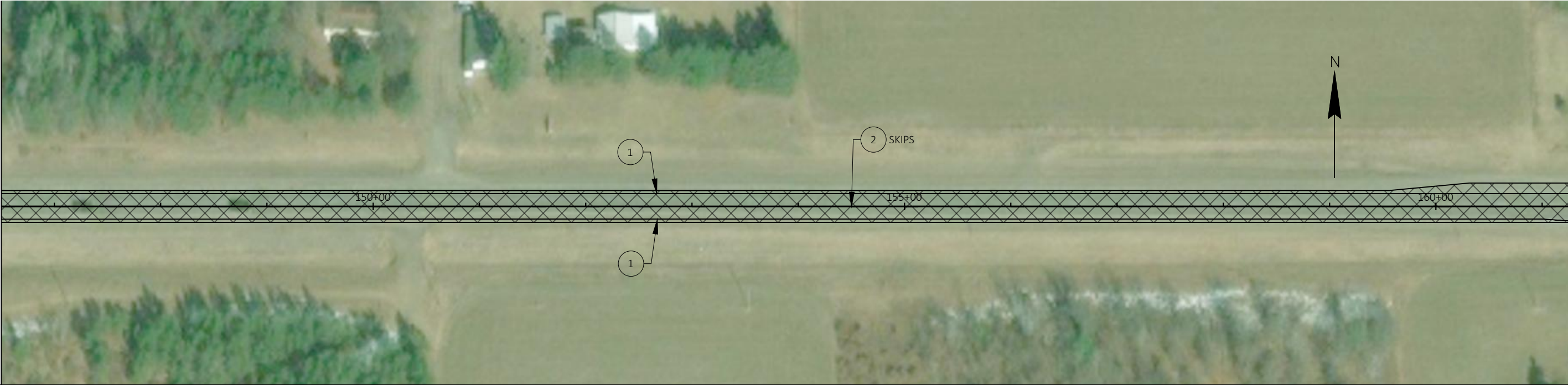


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- CHIP/ SCRUB & FOG SEAL AREA
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



- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
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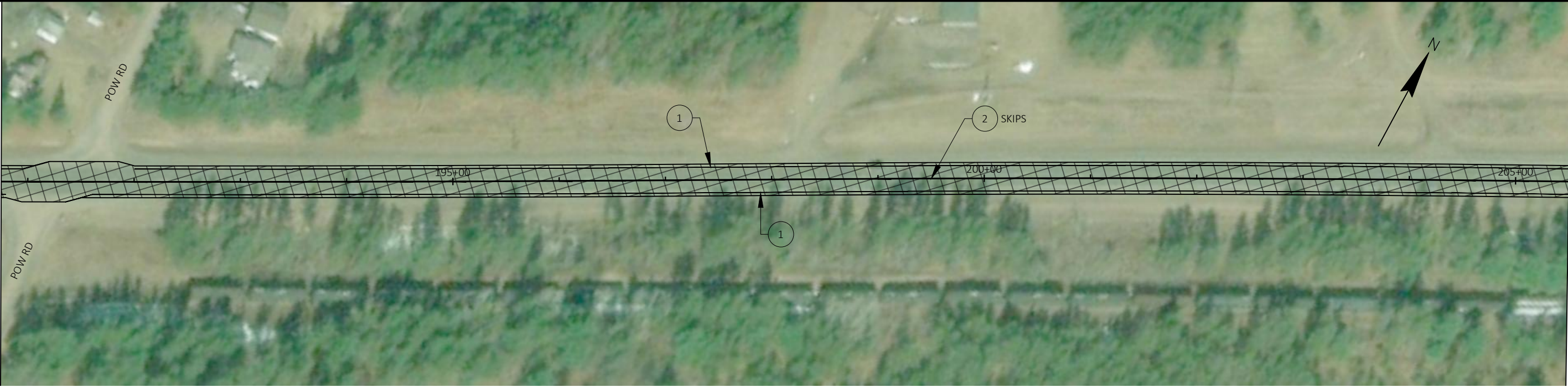


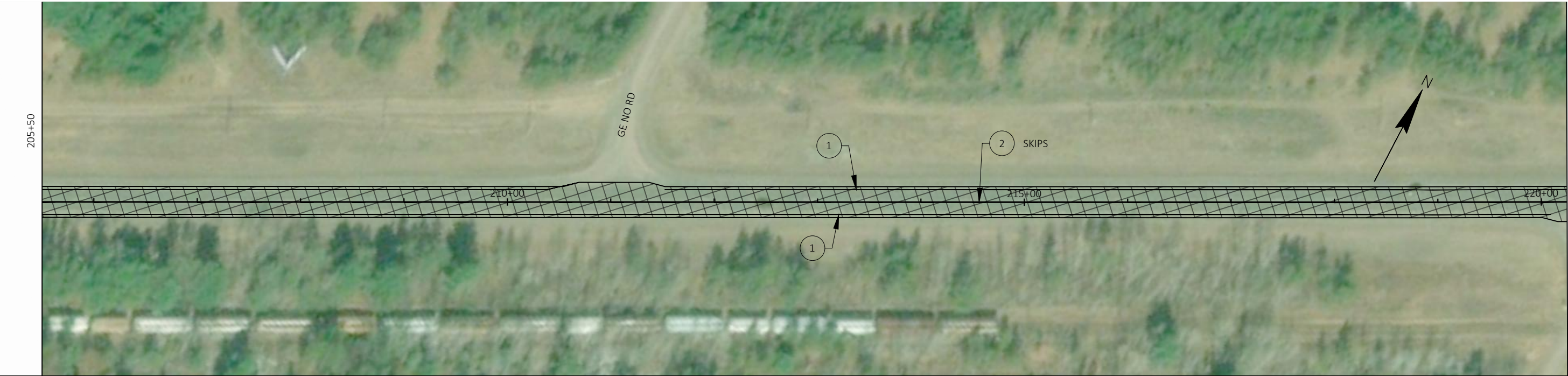


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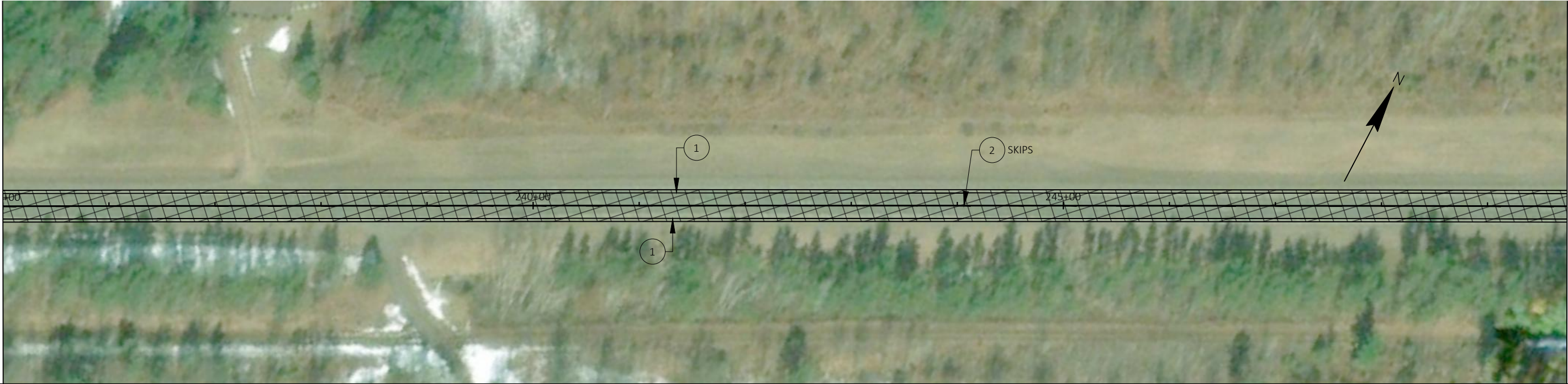


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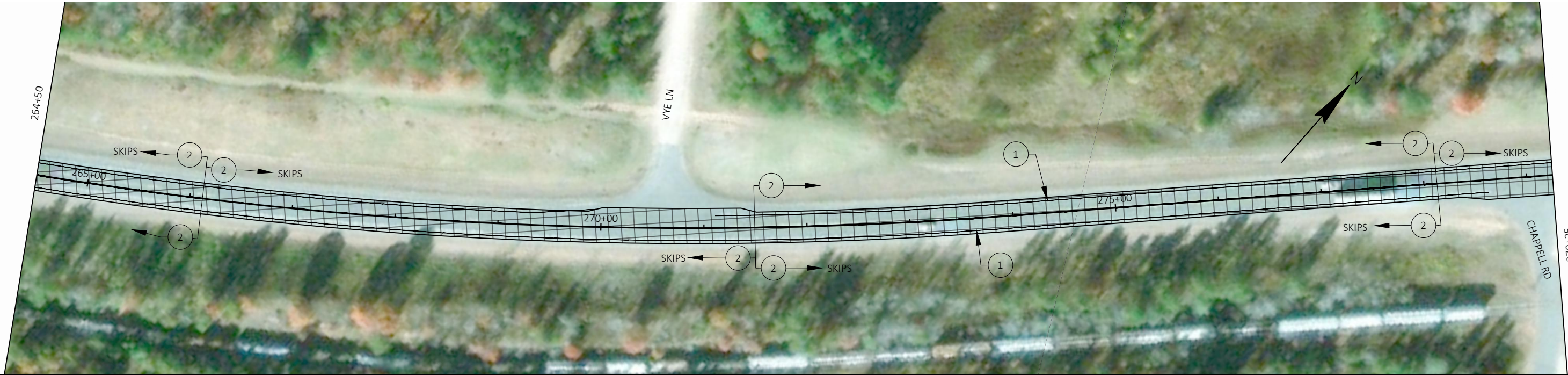


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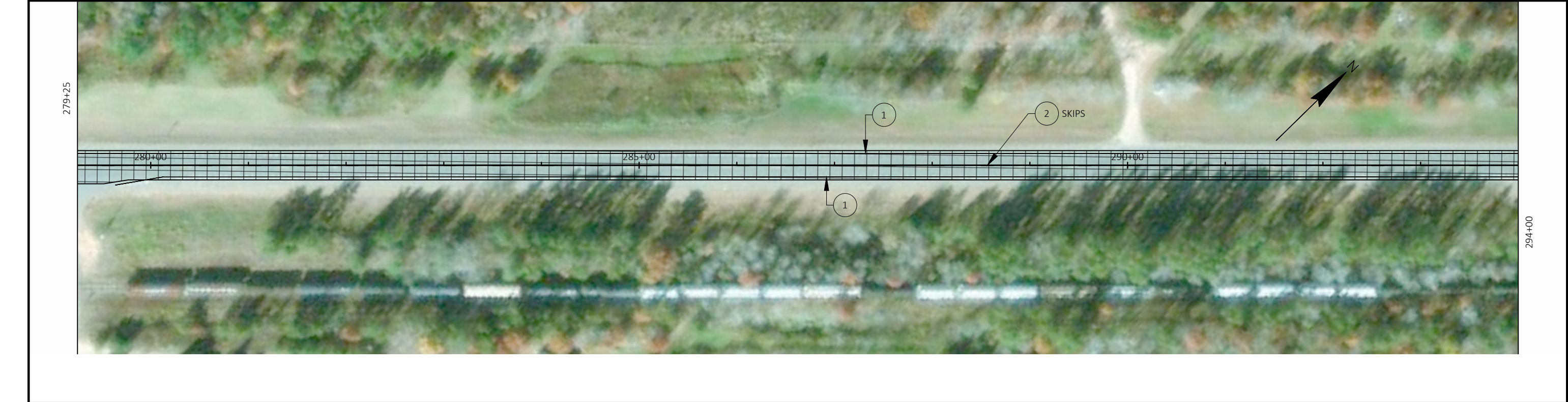




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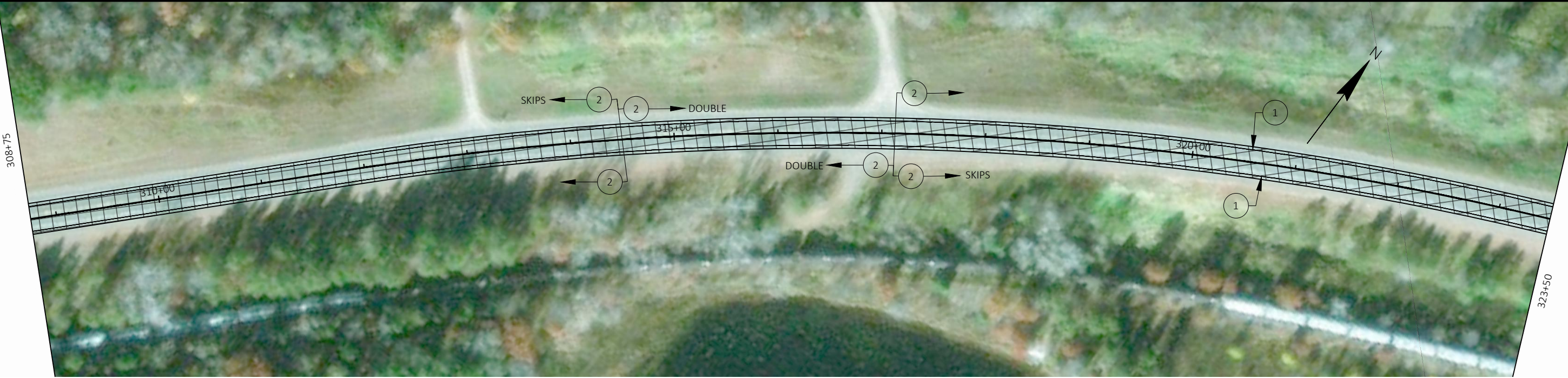


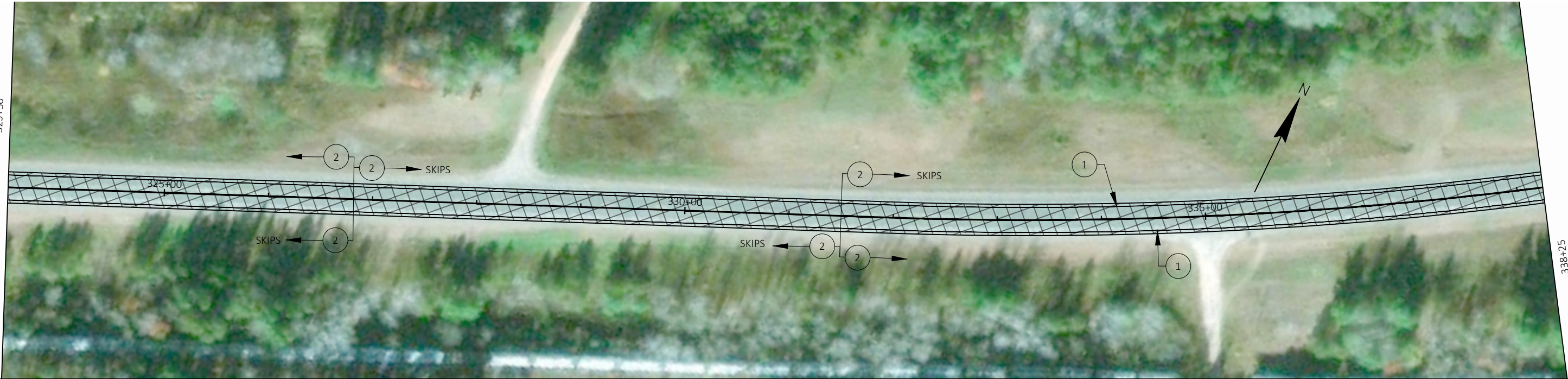


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- (3) MARKING LINE PAINT 8-INCH (WHITE)

- LEGEND
- BRIDGE - NO CHIP/ SCRUB & FOG SEAL
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LEGEND





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





5

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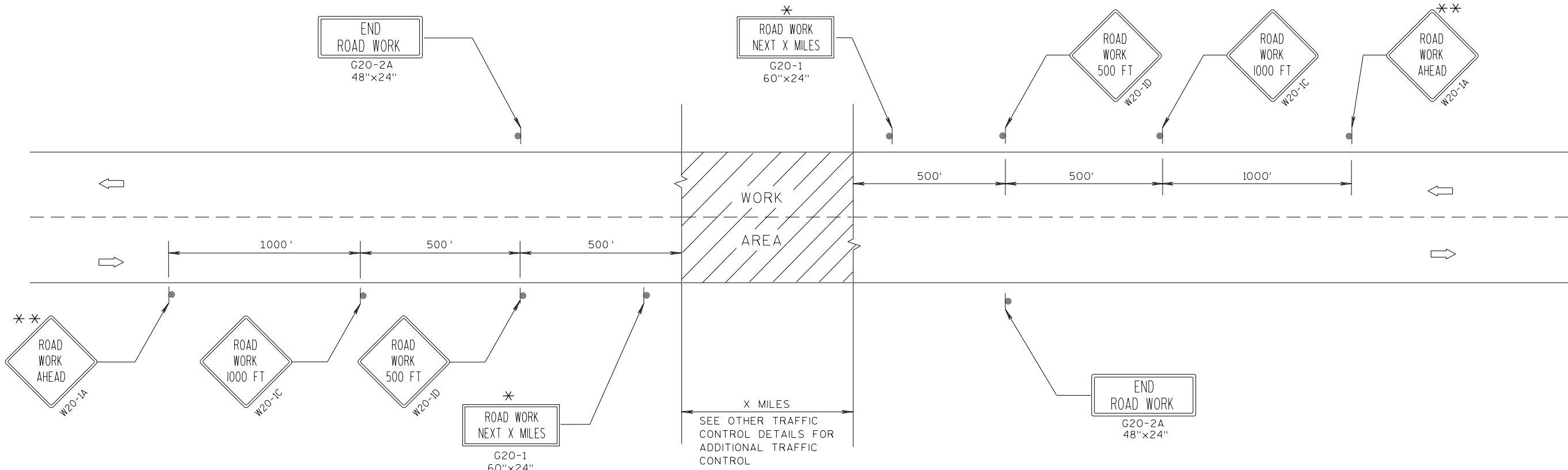
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5

Standard Detail Drawing List

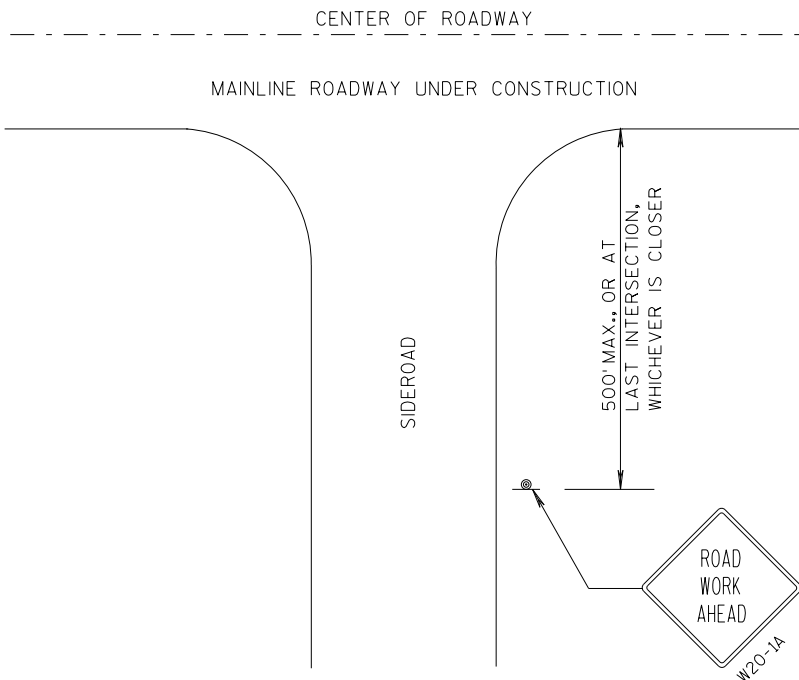
| | |
|-----------|--|
| 15C04-05 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC |
| 15C05-05 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS |
| 15C07-14B | PAVEMENT MARKING WORDS |
| 15C07-14C | PAVEMENT MARKING ARROWS |
| 15C08-19A | LONGITUDINAL MARKING (MAINLINE) |
| 15C08-19B | PAVEMENT MARKING (TURN LANES) |
| 15C12-07 | TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION |
| 15C18-04 | MEDIAN ISLAND MARKING |
| 15C19-05A | MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY |
| 15C19-05B | MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY |
| 15C34-03 | STANDARD APPLICATION FOR TEMPORARY RAISED PAVEMENT MARKER, TYPE 2 |
| 15C35-03A | PAVEMENT MARKING (INTERSECTIONS) |
| 15C35-03B | PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE) |
| 15C35-03C | PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE) |
| 15D28-03 | TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY |
| 15D30-05A | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D38-02A | TEMPORARY TRAFFIC CONTROL SIGN MOUNTING |
| 15D38-02B | ATTACHMENT OF SIGNS TO POSTS |



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

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"x48" UNLESS OTHERWISE NOTED.
- SIGNS THAT WILL BE IN PLACE LESS THAN 7 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 RE-ESTABLISHED.
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



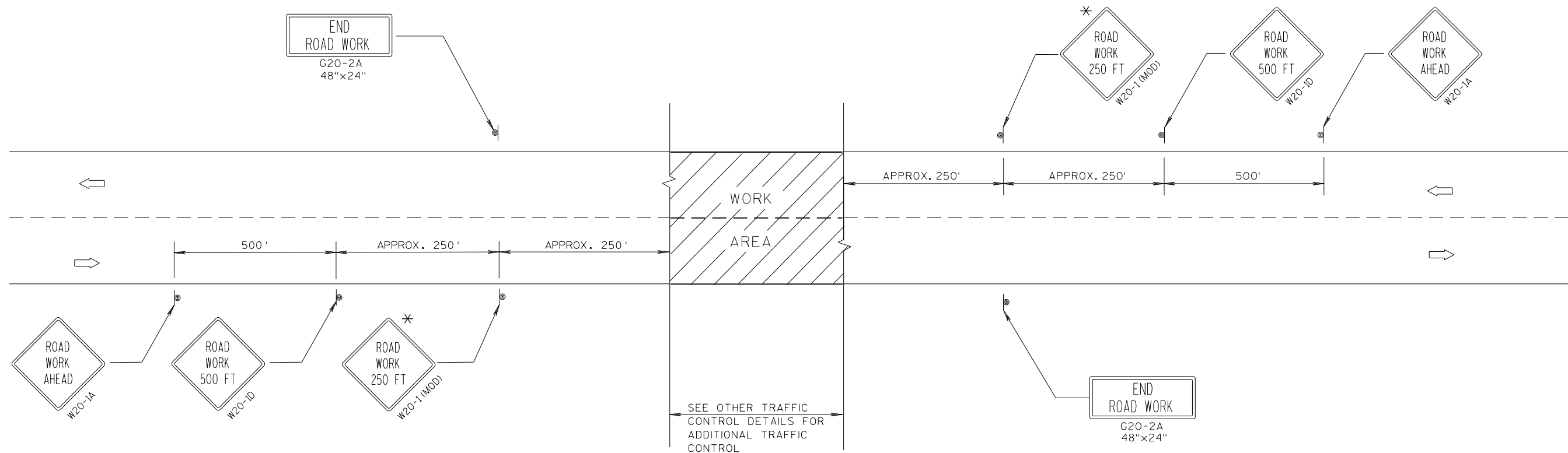
LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

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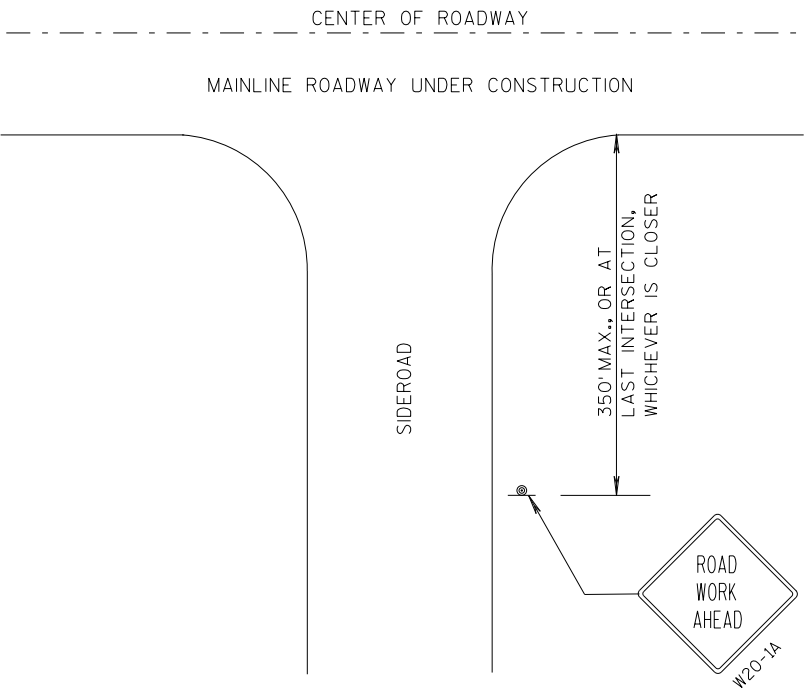
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 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 RE-ESTABLISHED.

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



LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

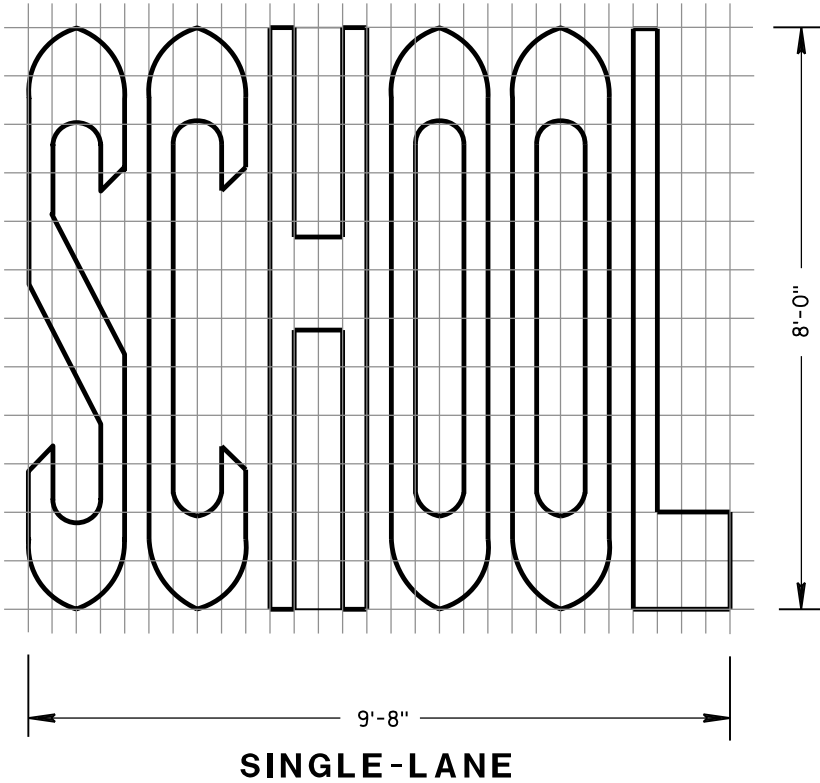
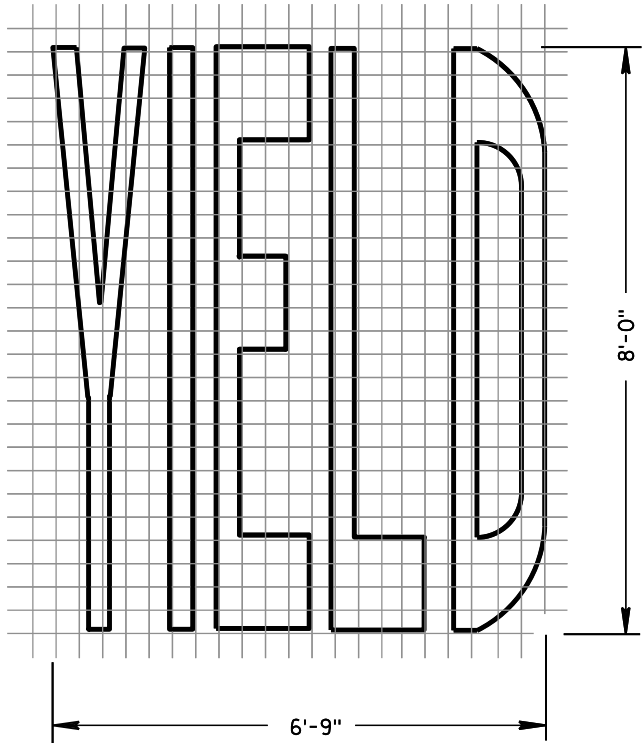
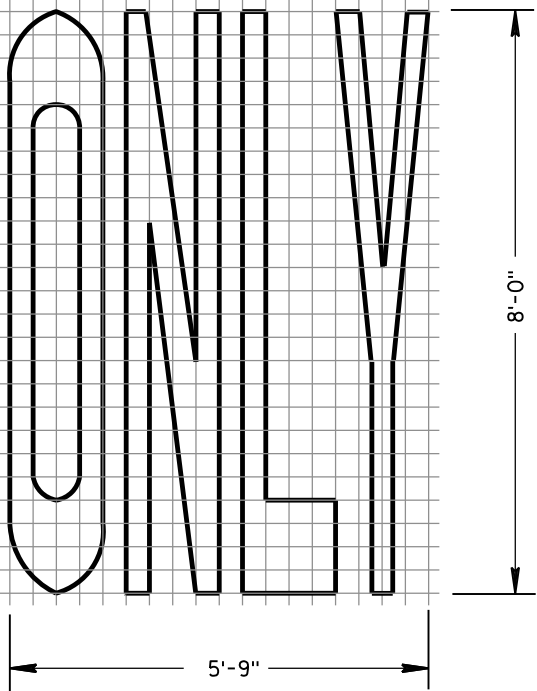
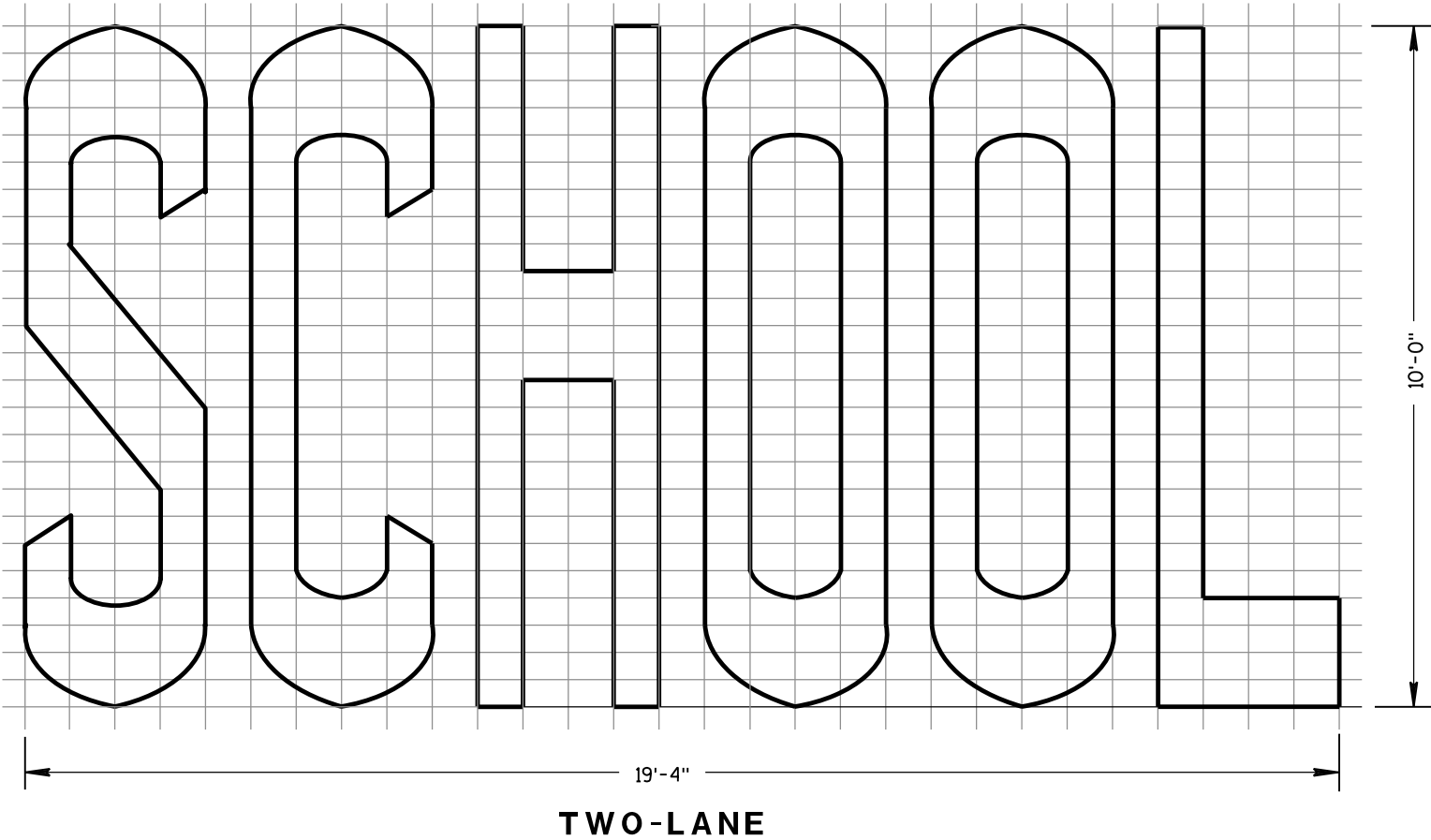
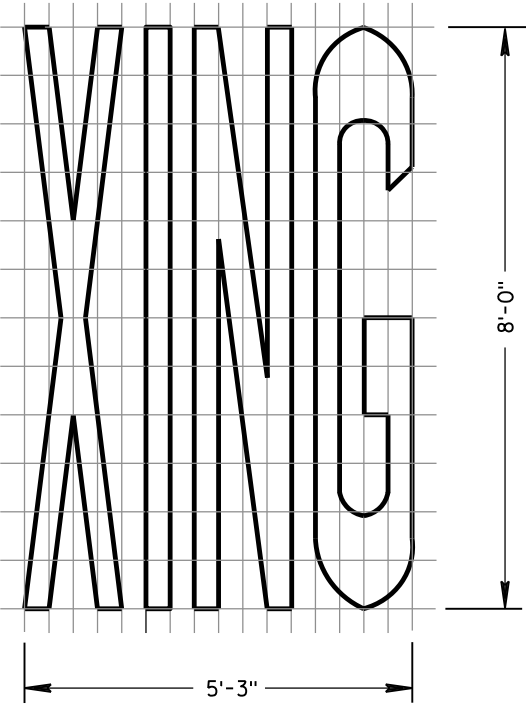
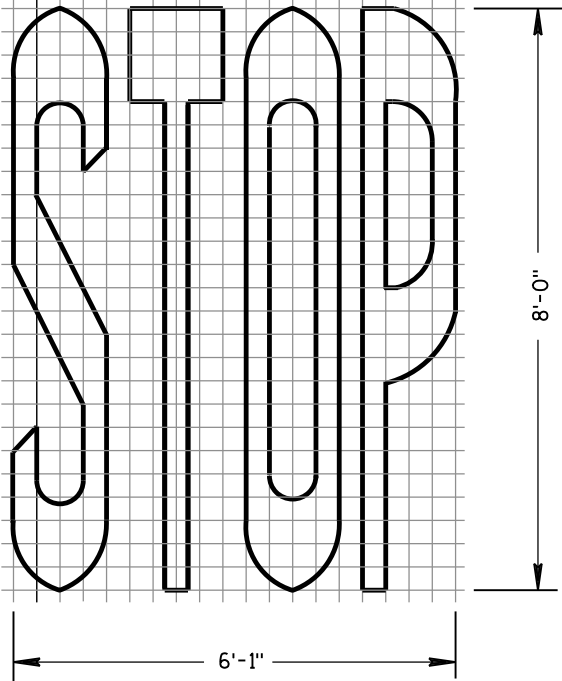
TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 40 M.P.H.
OR LESS TWO-WAY UNDIVIDED
ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

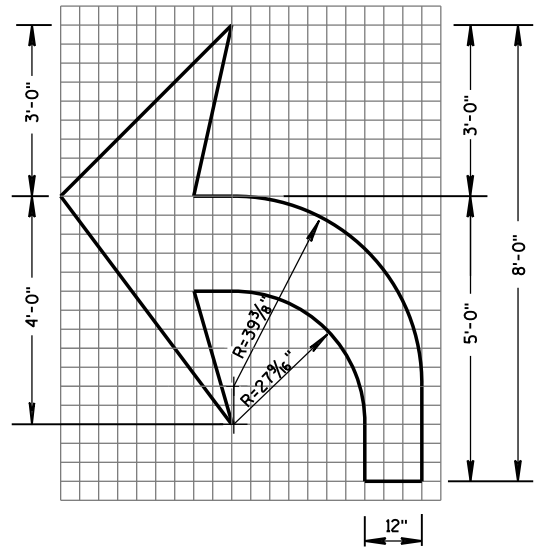
APPROVED
7/2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

GENERAL NOTES

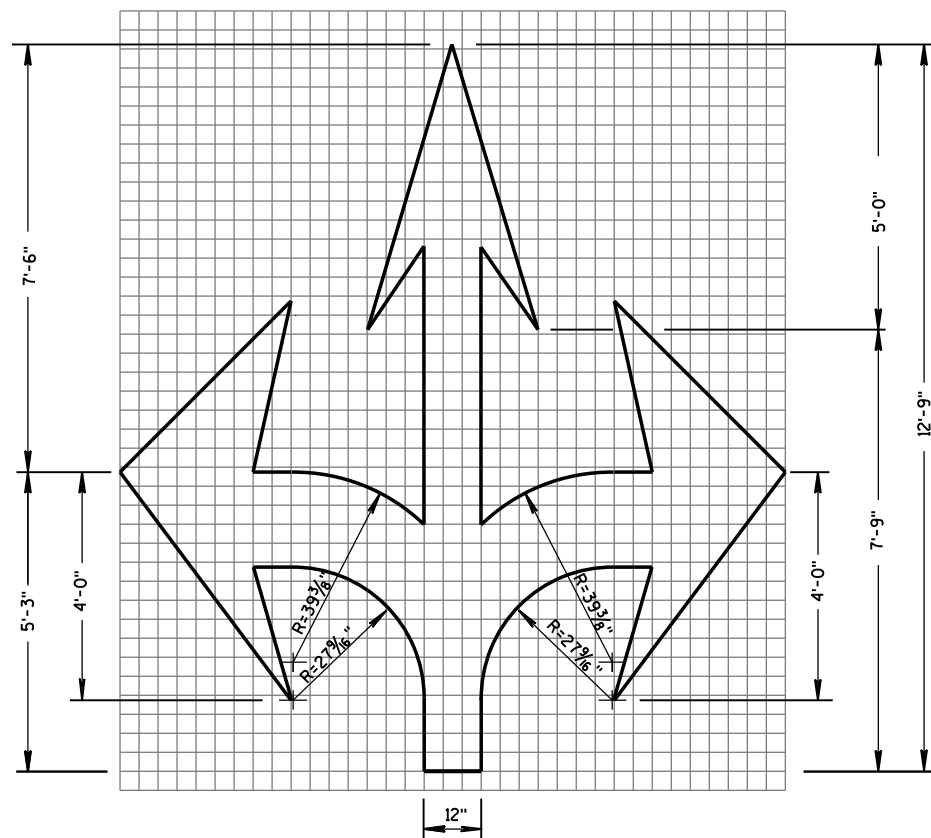
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



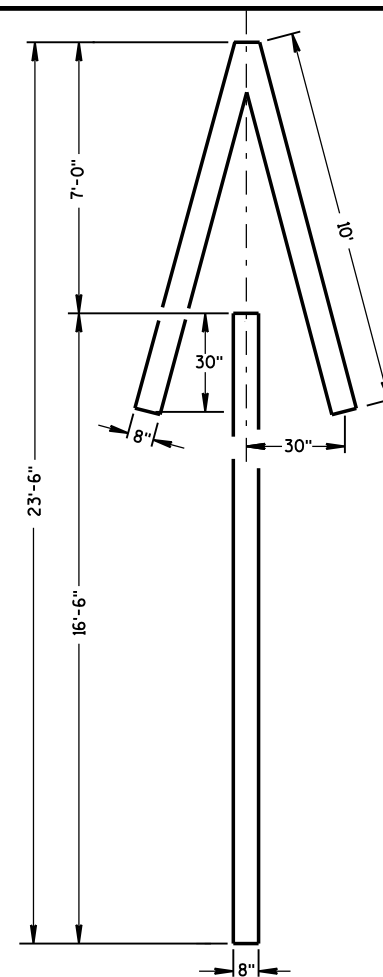
| PAVEMENT MARKING WORDS | |
|--|--|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED June 2017 DATE | /S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER |
| FHWA | |



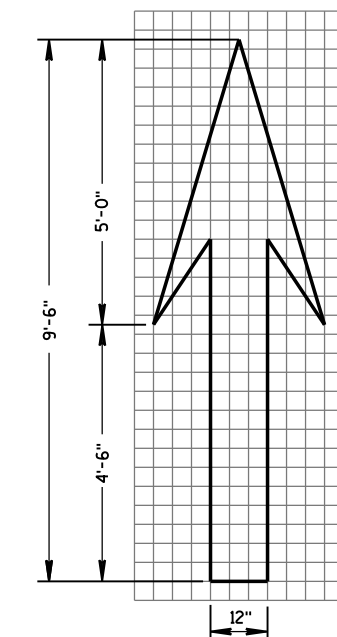
TYPE 2



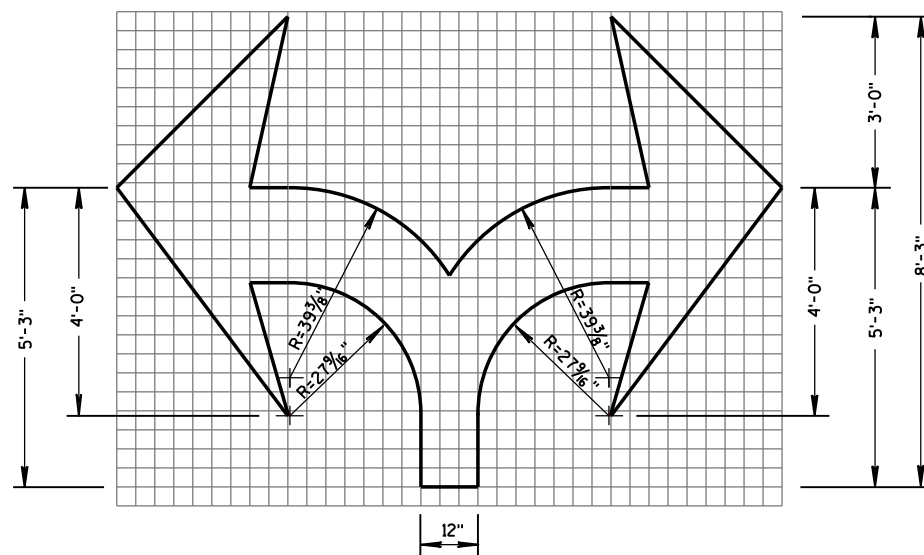
TYPE 6



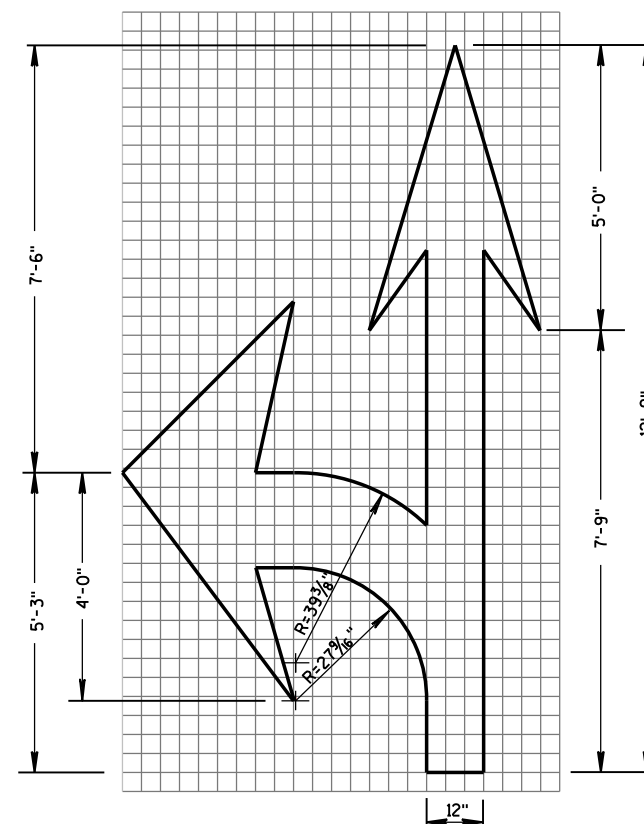
TYPE 4



TYPE 1



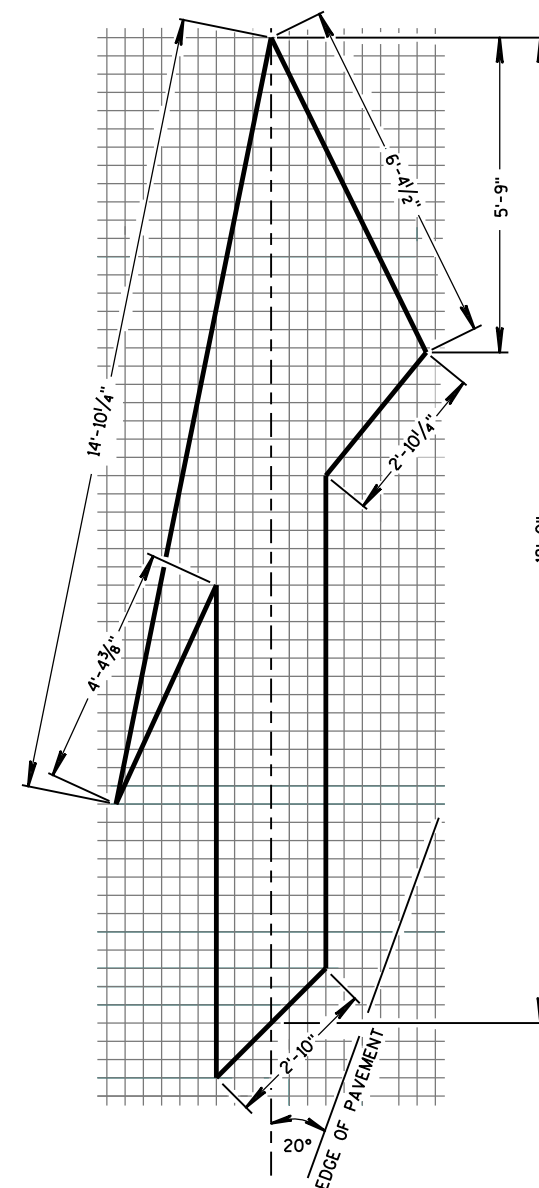
TYPE 7



TYPE 3

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TYPE 5 LANE DROP ARROW

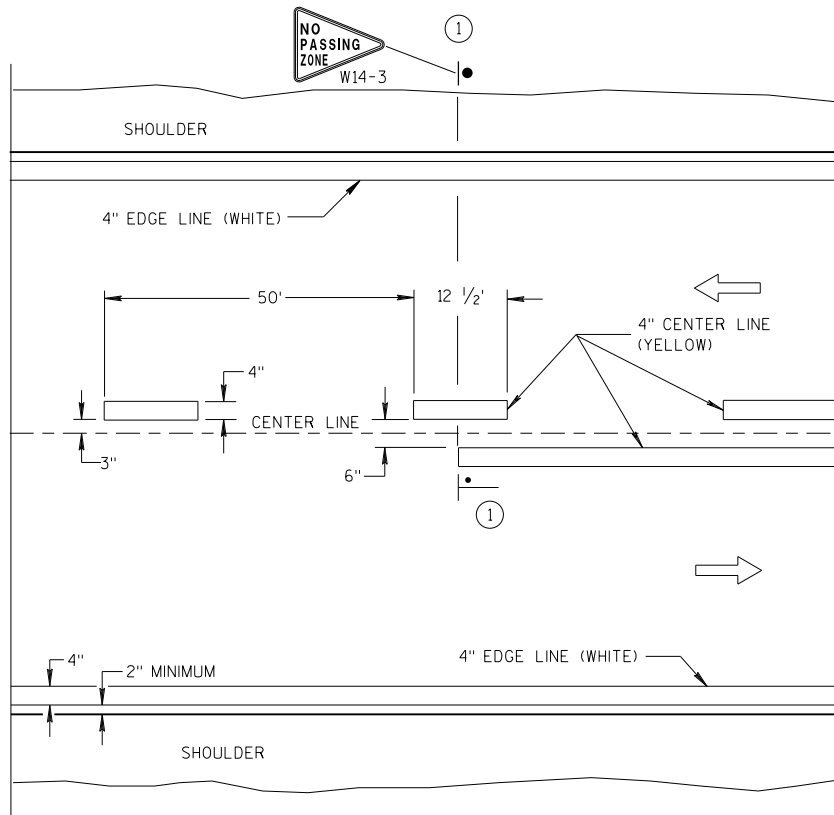
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

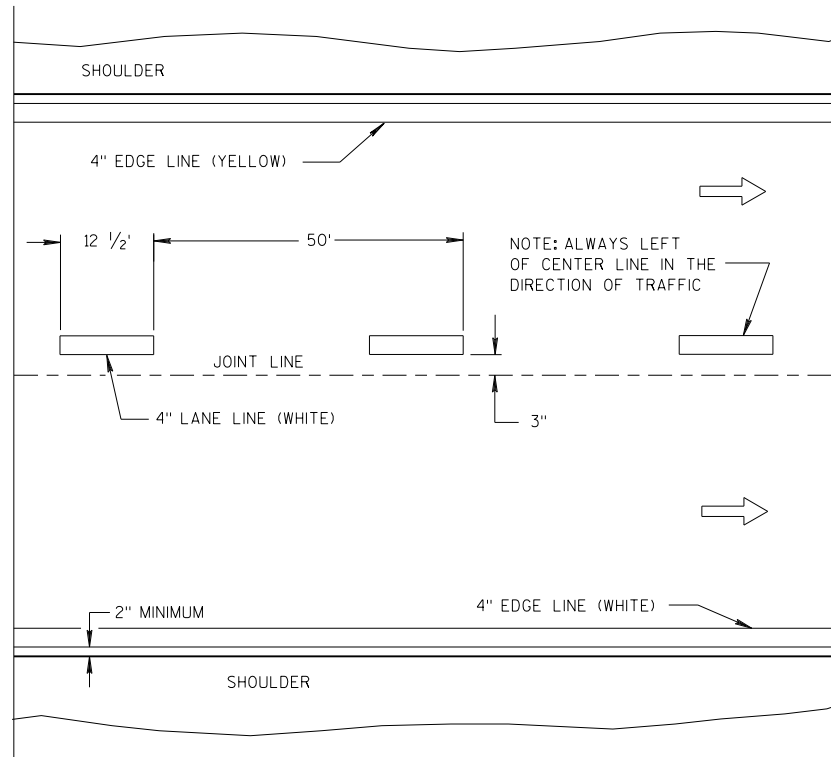
APPROVED

June 2017
DATE/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

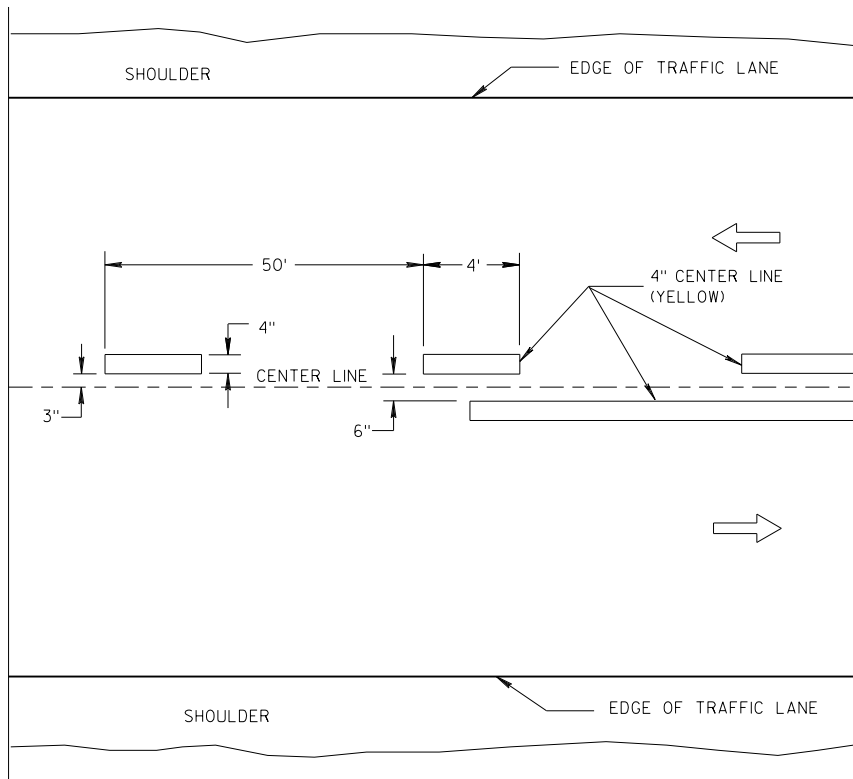


TWO WAY TRAFFIC

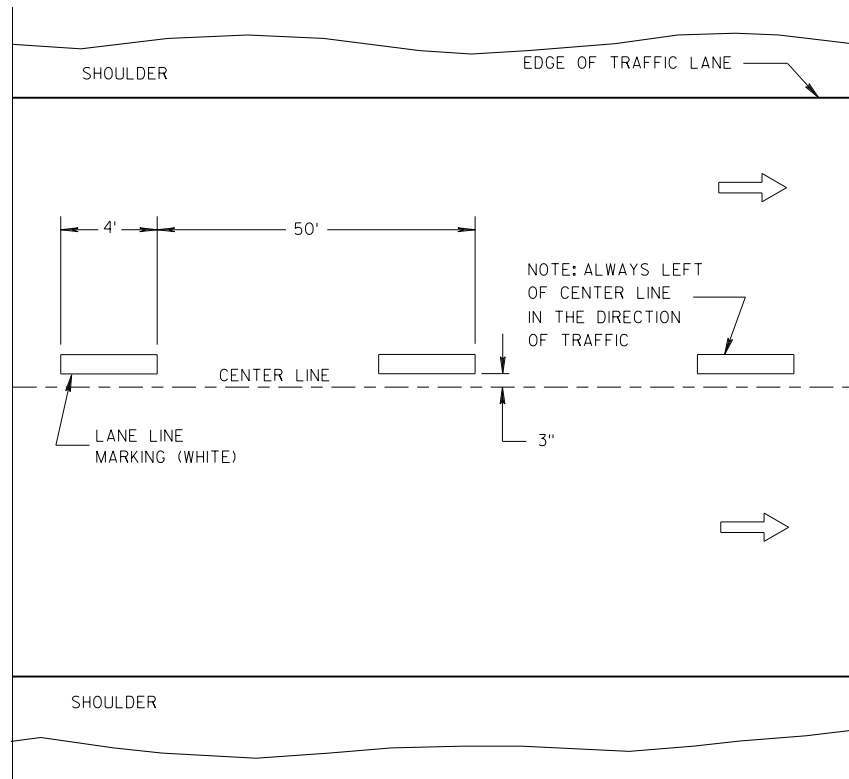


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC


TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.


- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

LEGEND

 "T" MARKING

 POST MOUNTED SIGN

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

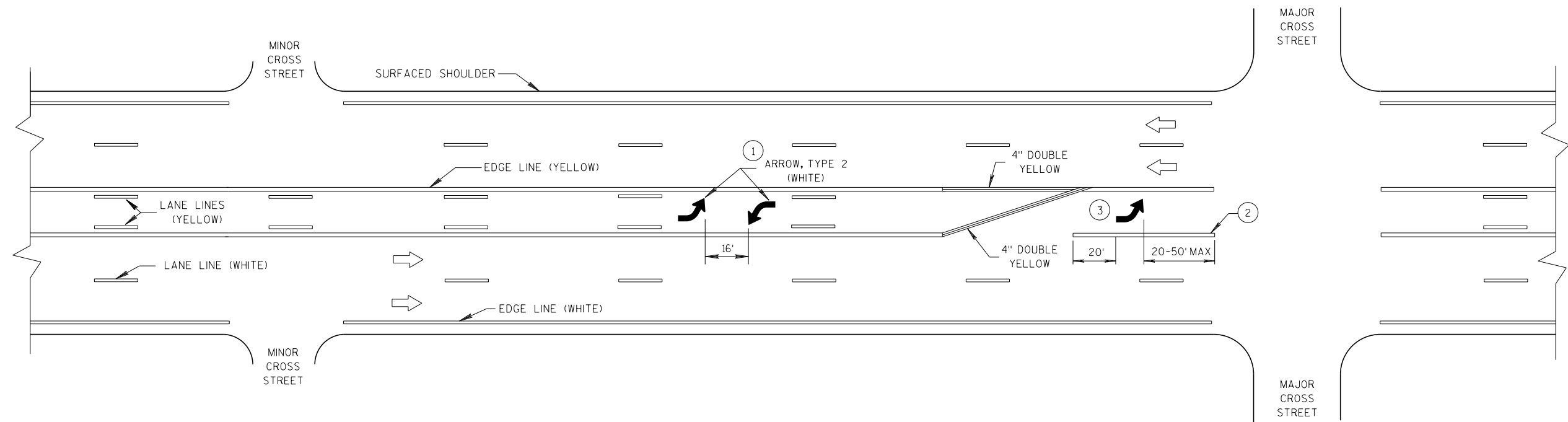
FHWA

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

GENERAL NOTES






- ① A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ② 8" WHITE
- ③ TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

➔ DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

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.

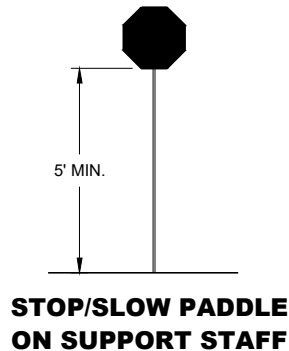
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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.
- 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.
 - 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.
- EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR 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.

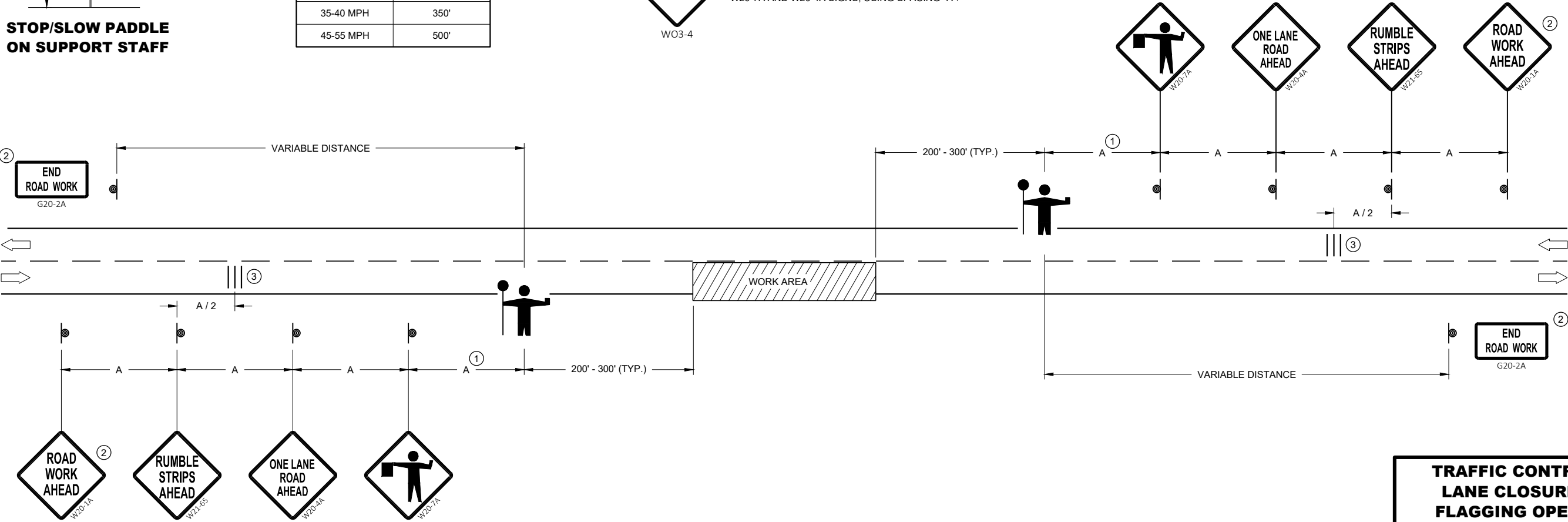


SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

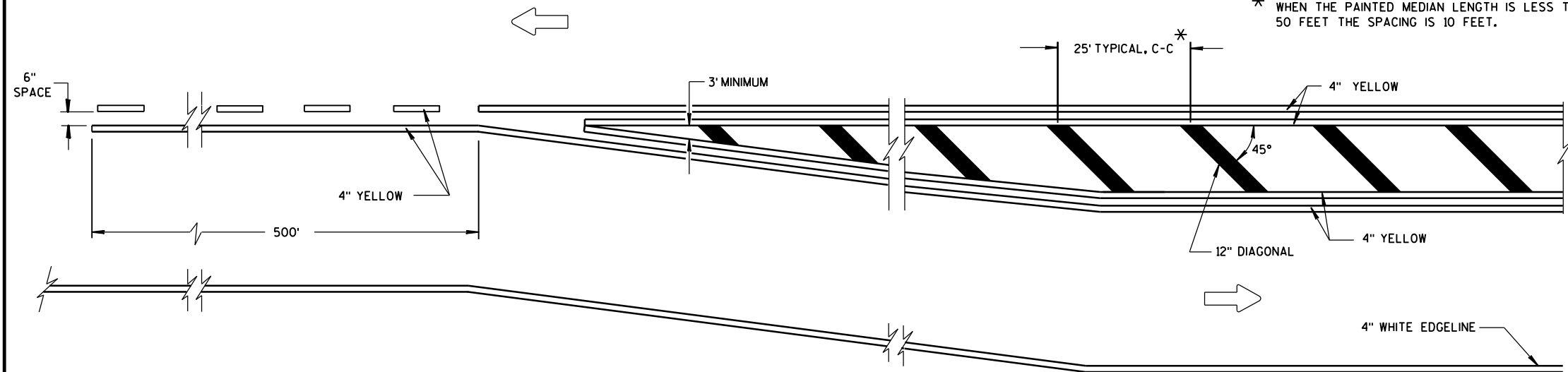


USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

| | |
|---|--|
| TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED May 2019 DATE | /S/ Andrew Heidtke WORK ZONE ENGINEER |
| FHWA | |

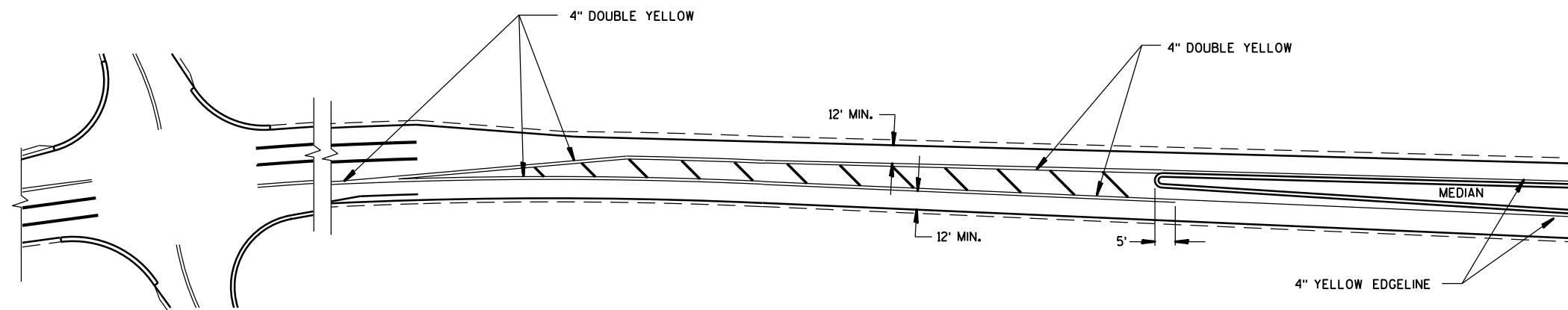


MEDIAN ISLAND DETAIL

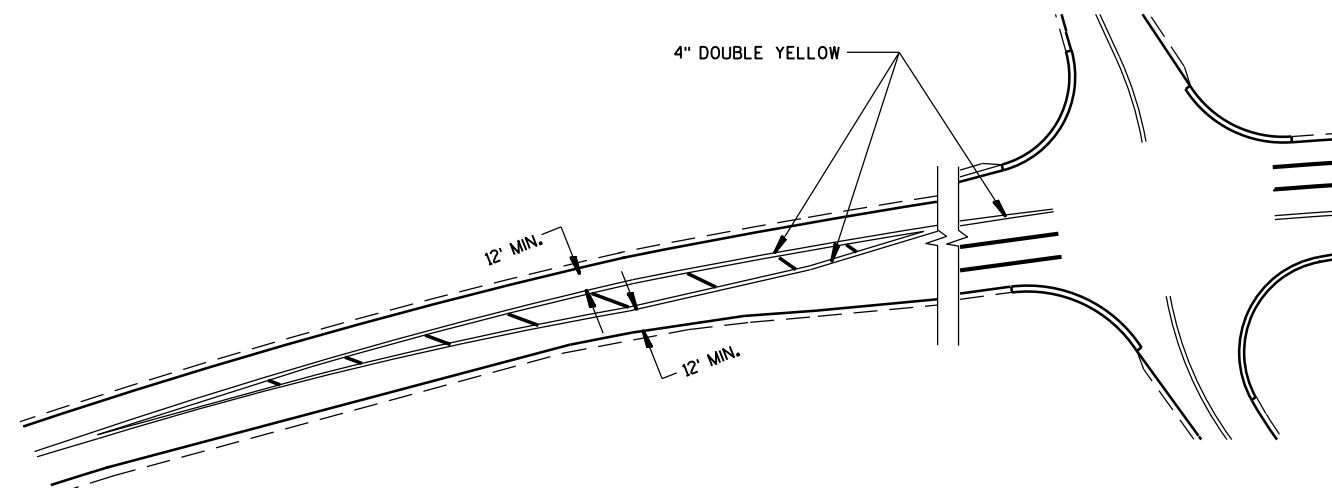
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

➡ DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

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

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

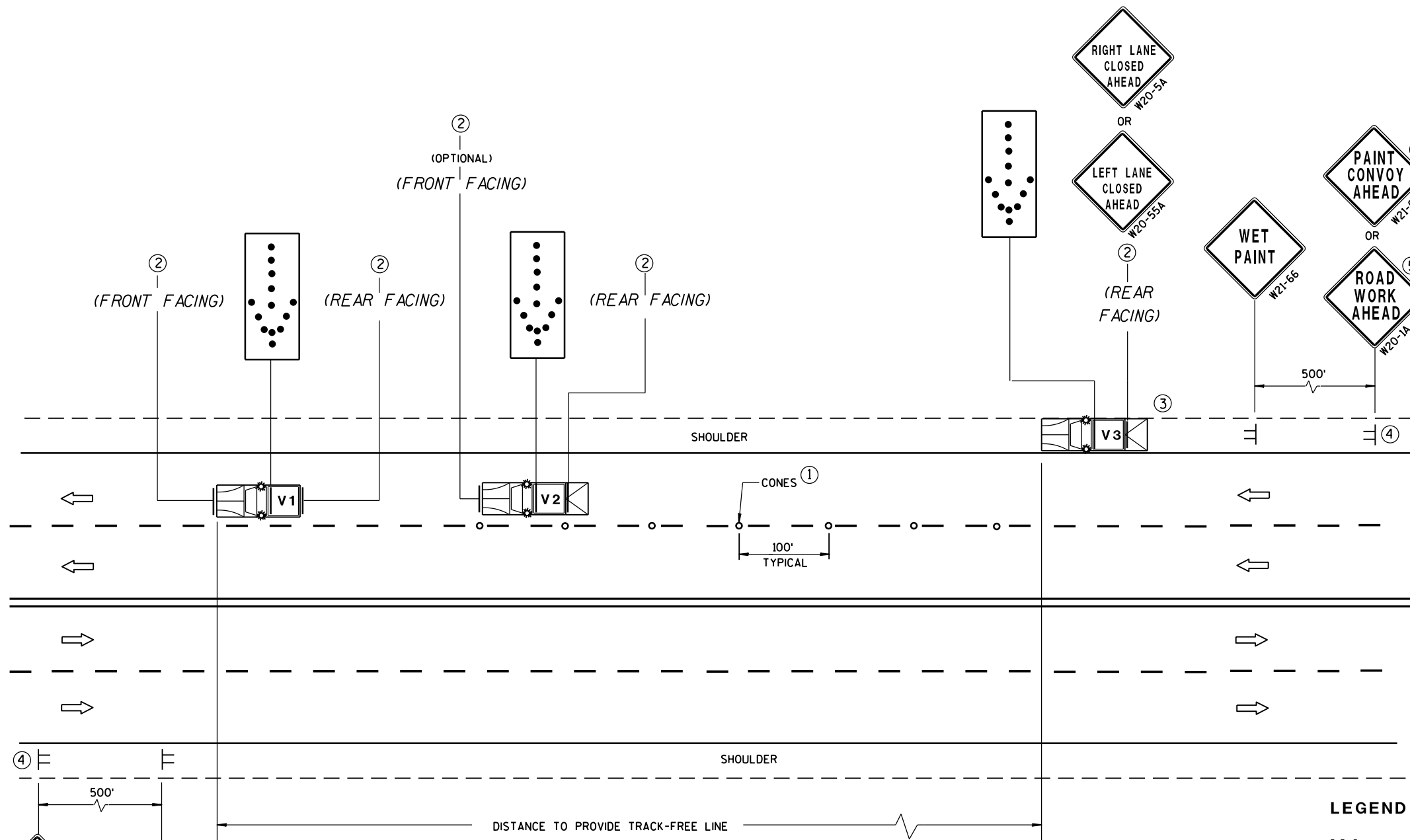
- 
 OR
 
- W21-64
 W21-64

| | |
|------------|--------------------------|
| V1 | LEAD VEHICLE |
| V2 | SHADOW VEHICLE |
| V3 | TRAIL VEHICLE WITH TMA |
| TMA | TRUCK-MOUNTED ATTENUATOR |

○ CONES

APPROVED
Sept., 2017 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA





MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

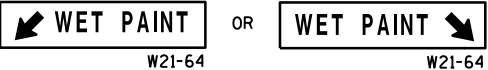
FOR EDGE LINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGE LINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.



③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

Sign on temporary support

Direction of traffic

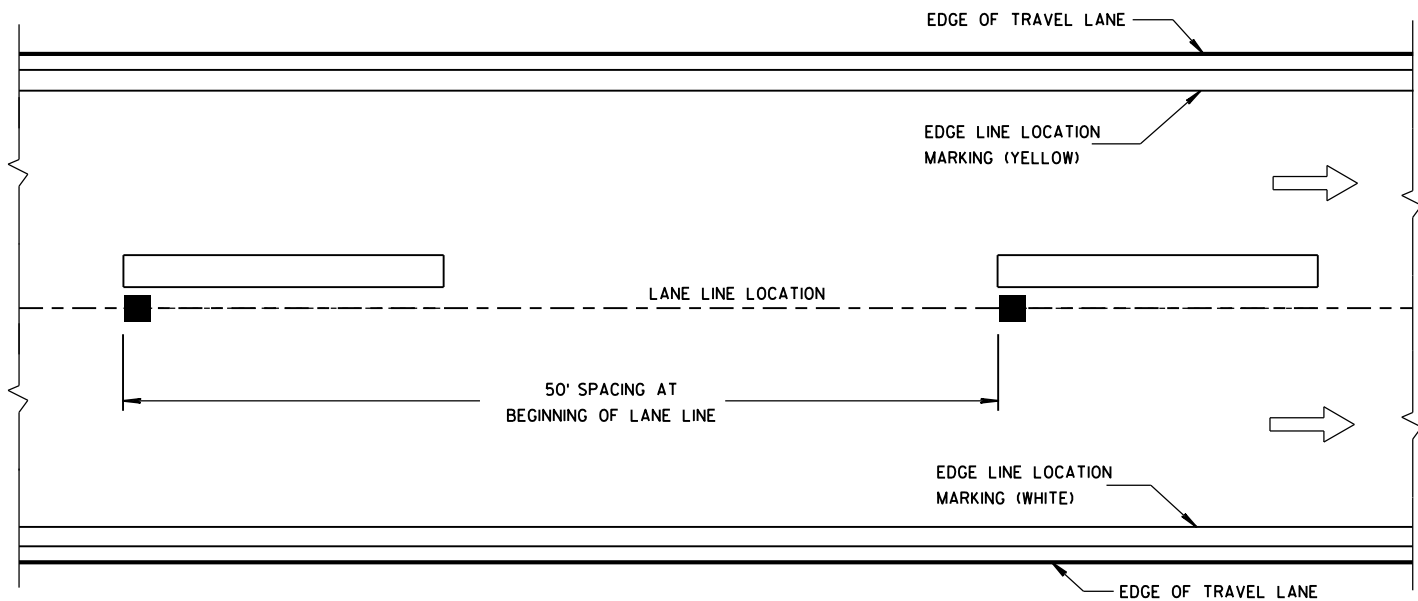
Cones

Flashing arrow panel (merge)

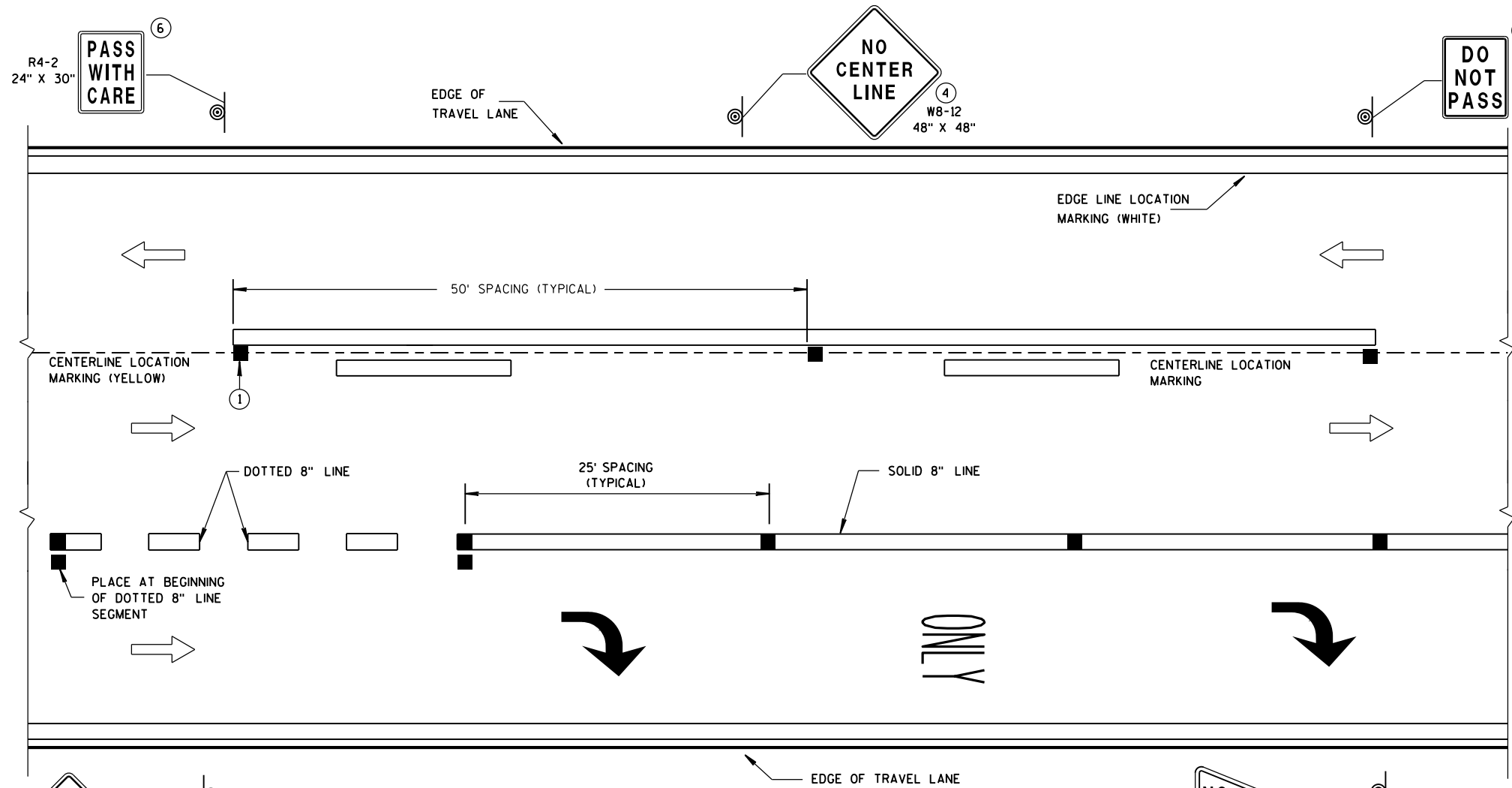
MOVING PAVEMENT MARKING
OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENGINEER
FHWA



LONGITUDINAL PLACEMENT 4-INCH LANE LINE



LONGITUDINAL PLACEMENT
4-INCH CENTERLINE AND 8-INCH CHANNEL LINE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

COLOR OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II SHALL MATCH THE COLOR OF THE MARKING THEY SUPPLEMENT.

PLACEMENT OF TEMPORARY RAISED PAVEMENT MARKERS ON EDGE LINES ARE OPTIONAL. IF PLACED ON EDGE LINES, MAXIMUM SPACING SHALL BE 50 FEET.

PROVIDE SINGLE OR MULTI-COVER TEMPORARY RAISED PAVEMENT MARKERS AS SHOWN ON PLAN.

MARK T's ON PAVEMENT FOR RE-ESTABLISHING NO PASSING ZONES.

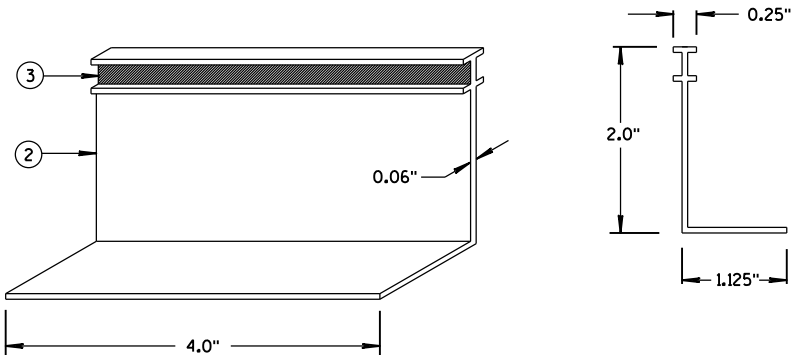
SAME DAY TEMPORARY PAVEMENT MARKING MAY BE USED IN LIEU OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF TEMPORARY SAME DAY PAVEMENT MARKING IS USED, ENSURE PROPOSED PAVEMENT MARKINGS ARE PLACED IN THE EXACT LOCATIONS AS THE EXISTING MARKINGS, USING A MINIMAL AMOUNT OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II OR OTHER METHODS AS APPROVED BY THE ENGINEER.

IF ROADWAY IS DETOURED DURING CONSTRUCTION, THE DO NOT PASS, PASS WITH CARE AND NO CENTERLINE SIGNS MAY BE OMITTED, PROVIDED A LIQUID MARKING IS INSTALLED BEFORE THE ROADWAY IS REOPENED TO TRAFFIC.

- 1 FOR DOUBLE SOLID YELLOW, PLACE THE MARKERS BETWEEN THE LINES.
- 2 MARKERS SHALL BE OF POLYURETHANE MATERIAL.
- 3 MARKERS SHALL HAVE A MINIMUM SIZE REFLECTIVE SURFACE OF 4 INCH WIDTH X 0.25 INCH HEIGHT.
- 4 NO CENTER LINE SIGNS SHALL BE PLACED AT THE BEGINNING OF PROJECT, AT TWO-MILE INTERVALS AND AFTER STATE AND COUNTY HIGHWAY INTERSECTIONS.
- 5 DO NOT PASS SIGNS SHALL BE INSTALLED AT THE BEGINNING OF NO PASSING ZONES. ADDITIONAL DO NOT PASS SIGNS SHALL BE INSTALLED AT ONE MILE INTERVALS AND AFTER STATE AND COUNTY HIGHWAY INTERSECTIONS WITHIN THE NO PASSING ZONE.
- 6 PASS WITH CARE SIGNS SHALL BE PLACED AT THE DOWNSTREAM END OF NO PASSING ZONES.



ISOMETRIC VIEW SIDE VIEW

TEMPORARY RAISED
PAVEMENT MARKER, TYPE II

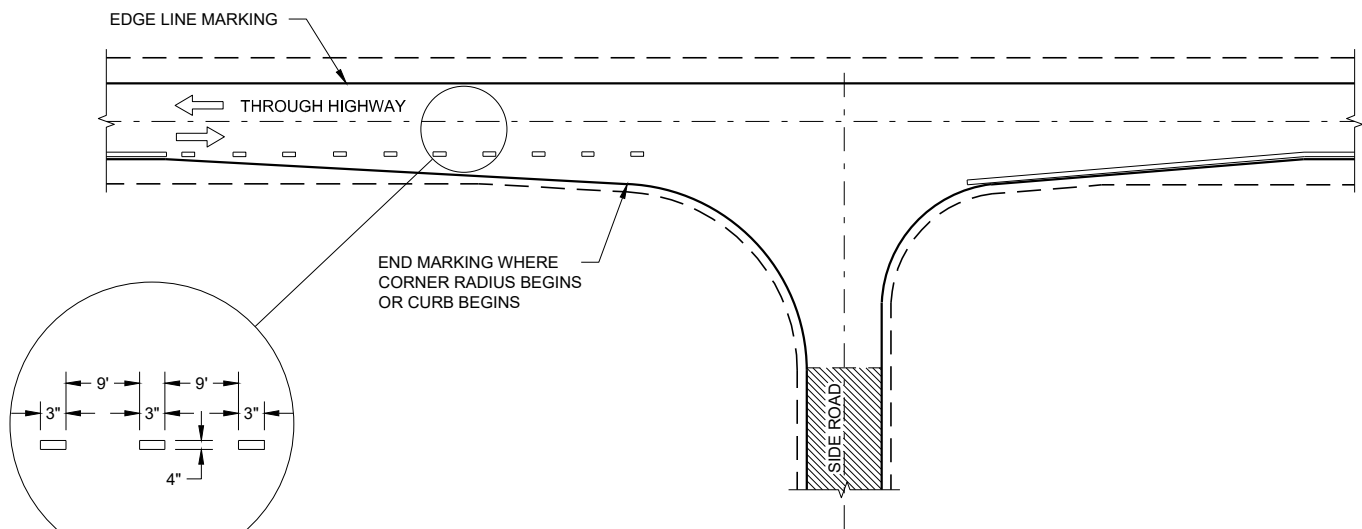
LEGEND

- TEMPORARY RAISED PAVEMENT MARKER, TYPE II
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAVEL

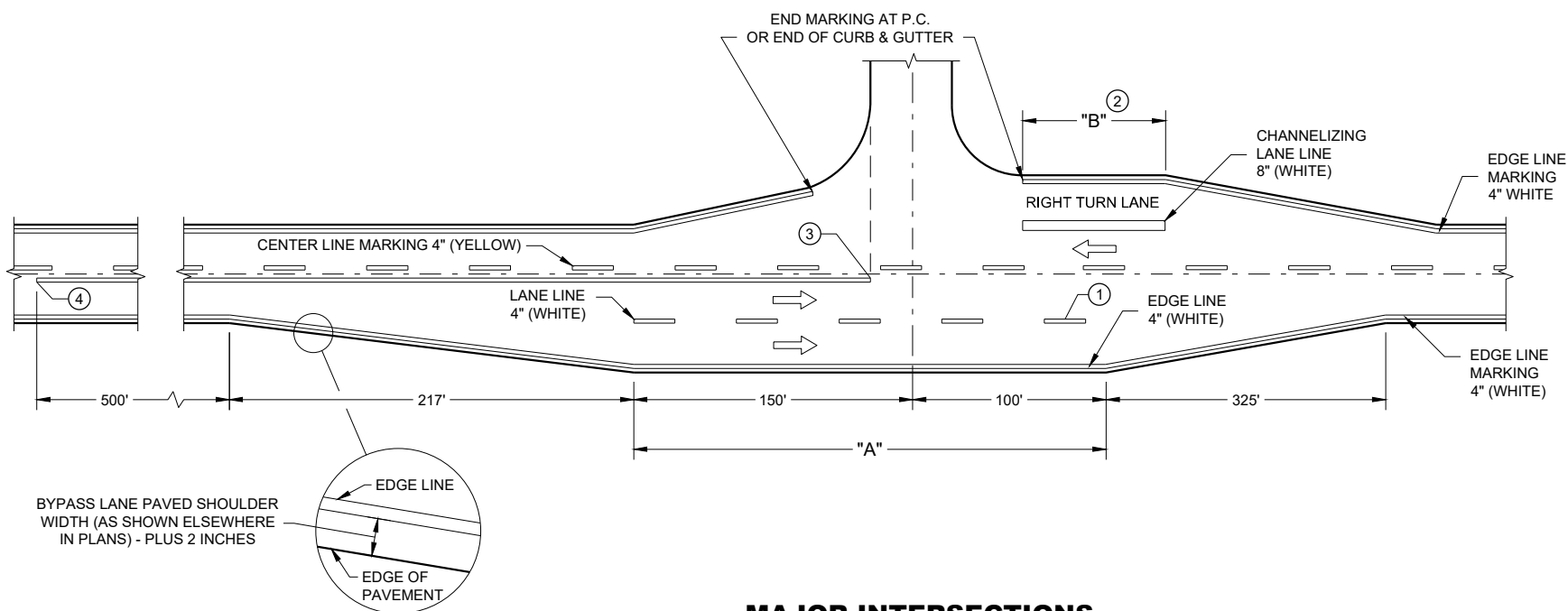
STANDARD APPLICATION FOR
TEMPORARY RAISED PAVEMENT
MARKERS, TYPE II

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



MINOR INTERSECTION



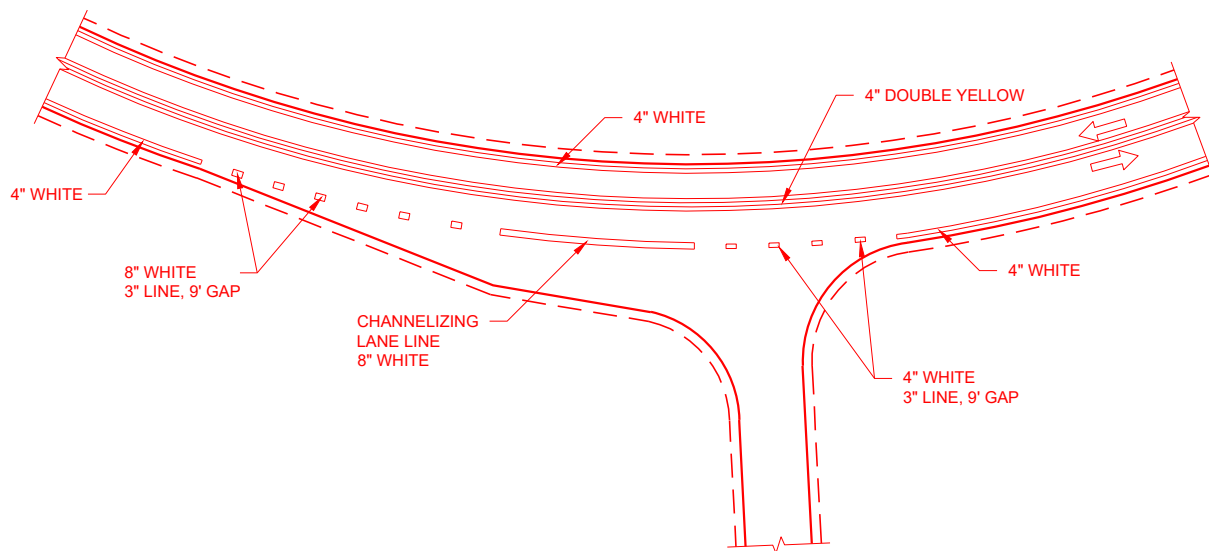
MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER

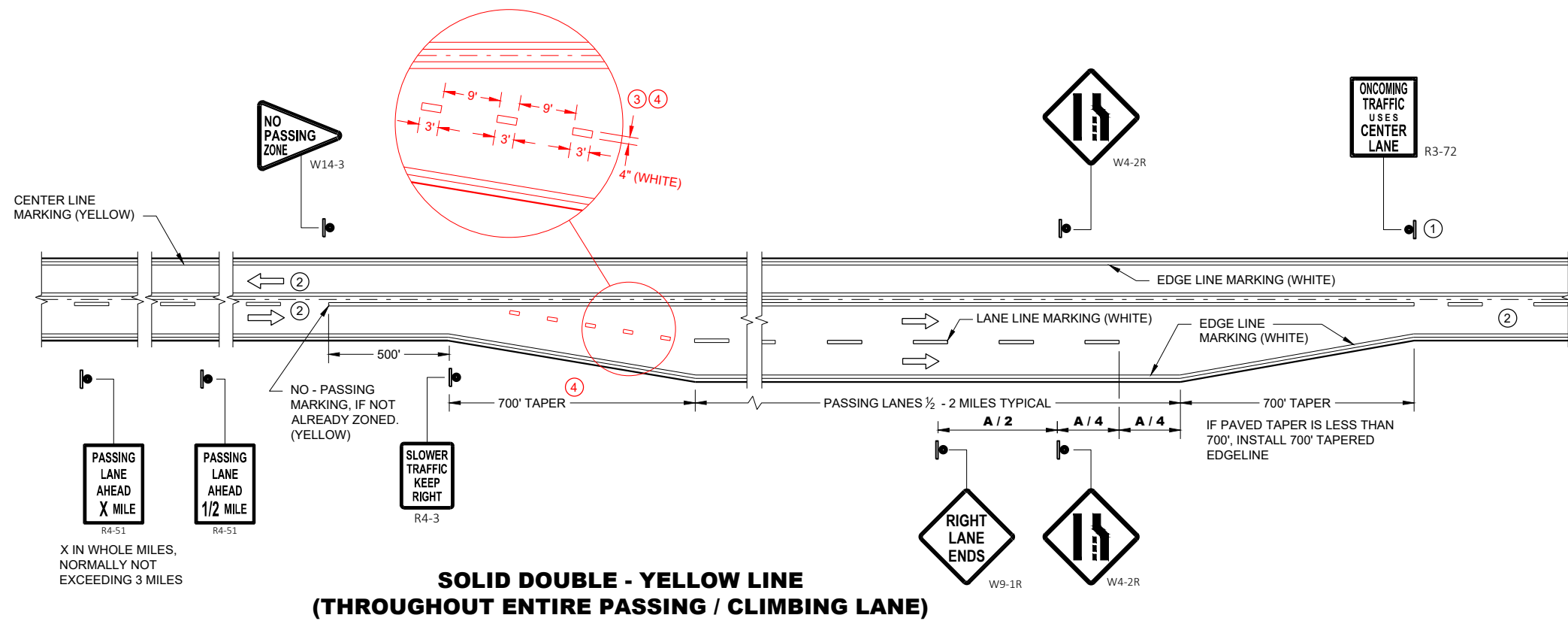
ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

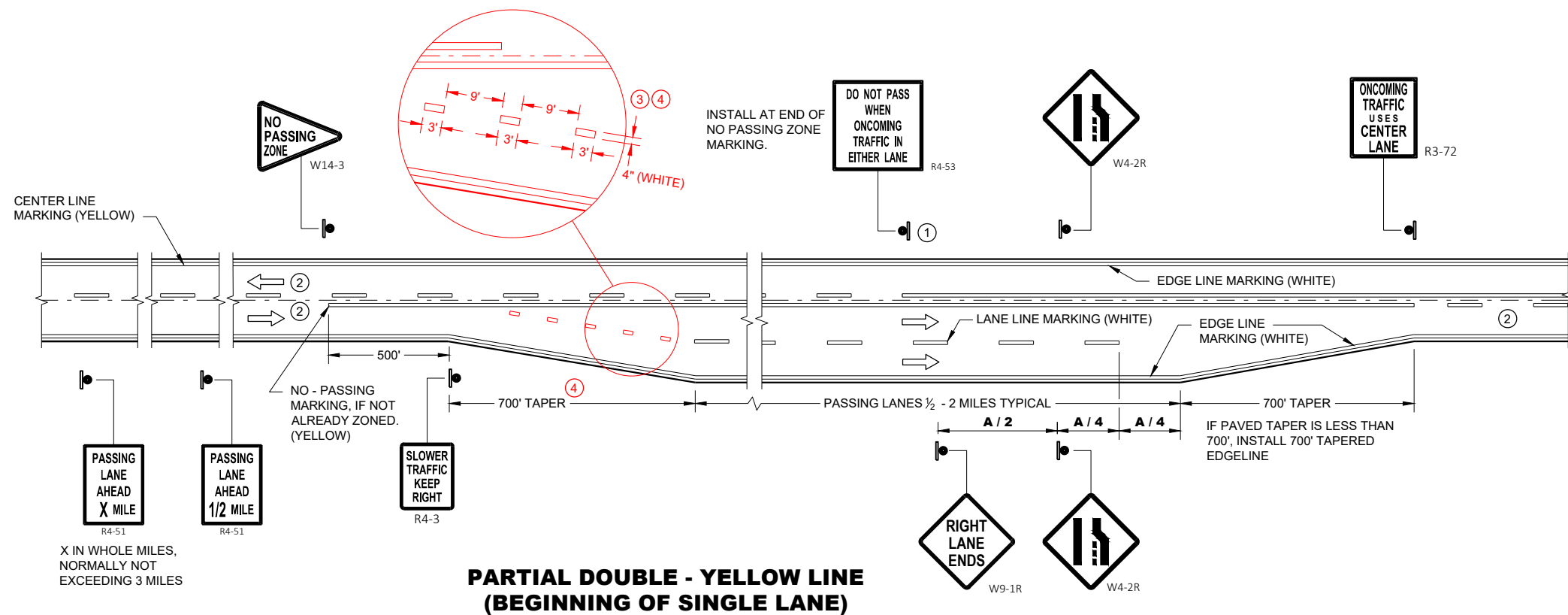


GENERAL NOTES

- ① SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

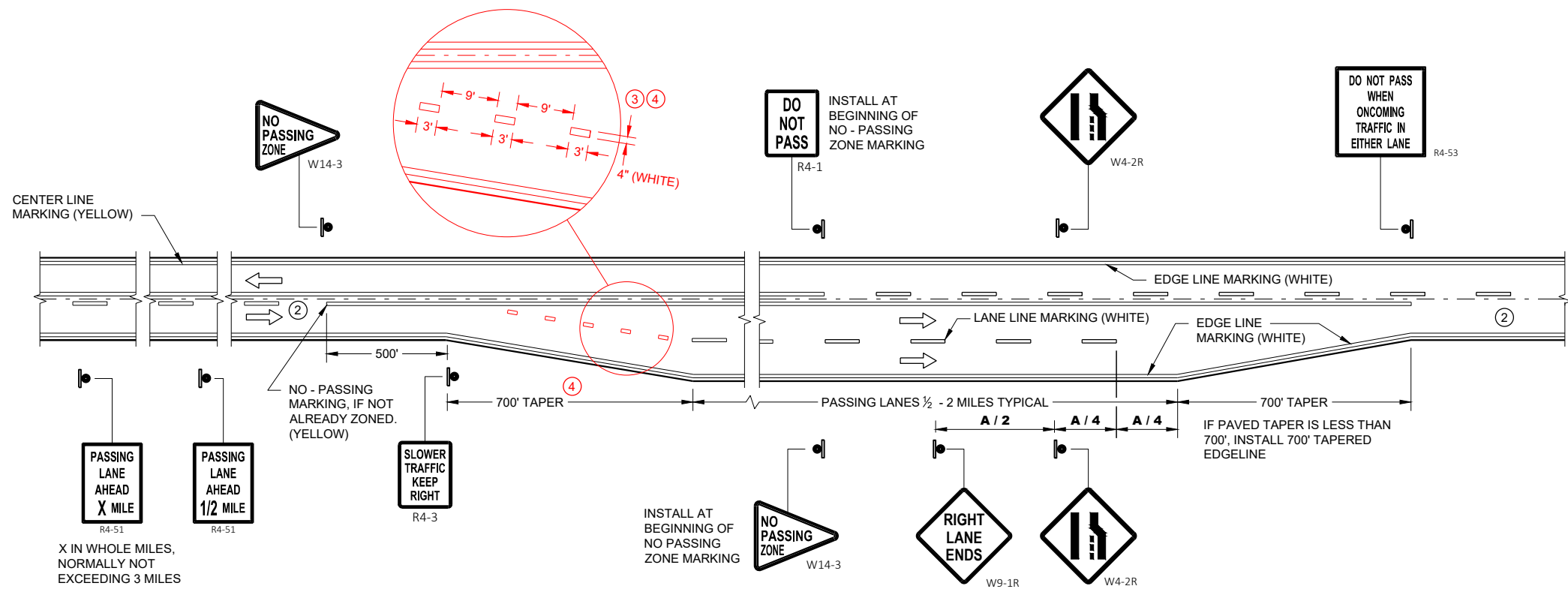
ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

| POSTED OR 85th PERCENTILE SPEED | DISTANCE "A" |
|--|---------------------|
| 45 | 775 |
| 50 | 850 |
| 55 | 950 |

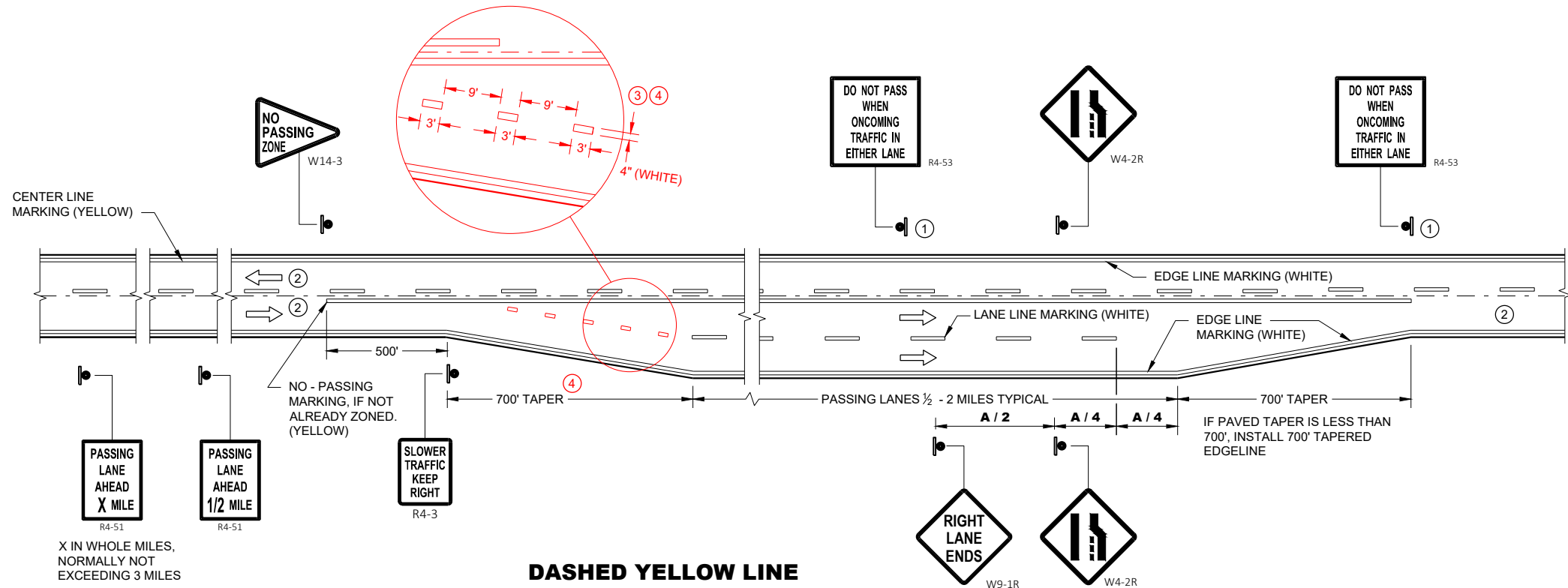


PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



**SOLID DOUBLE - YELLOW LINE
(END OF SINGLE LANE)**



**DASHED YELLOW LINE
(THROUGHOUT SINGLE LANE)**

GENERAL NOTES

- ① SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBLING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

| POSTED OR 85th PERCENTILE SPEED | DISTANCE "A" |
|---------------------------------|--------------|
| 45 | 775 |
| 50 | 850 |
| 55 | 950 |

**PAVEMNET MARKING & SIGNING
(CLIMBLING LANE & PASSING LANE)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
00-00-00
DATE
/S/ <AUTHOR>
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

LEGEND





-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  WORK ZONE

TABLE A

| SHOULDER TAPER LENGTH (FEET) | | | | | BUFFER SPACE (FEET) |
|------------------------------|----|-----|-----|-----|---------------------|
| S \ W | 4 | 6 | 8 | 10 | |
| 30 | 20 | 30 | 40 | 50 | 200 |
| 35 | 30 | 45 | 55 | 70 | 250 |
| 40 | 40 | 55 | 75 | 90 | 305 |
| 45 | 60 | 90 | 120 | 150 | 360 |
| 50 | 70 | 100 | 135 | 170 | 425 |
| 55 | 75 | 110 | 150 | 185 | 495 |

W = SHOULDER WIDTH (FEET
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER
L = WS² / 60 AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = 1/3L

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

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

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

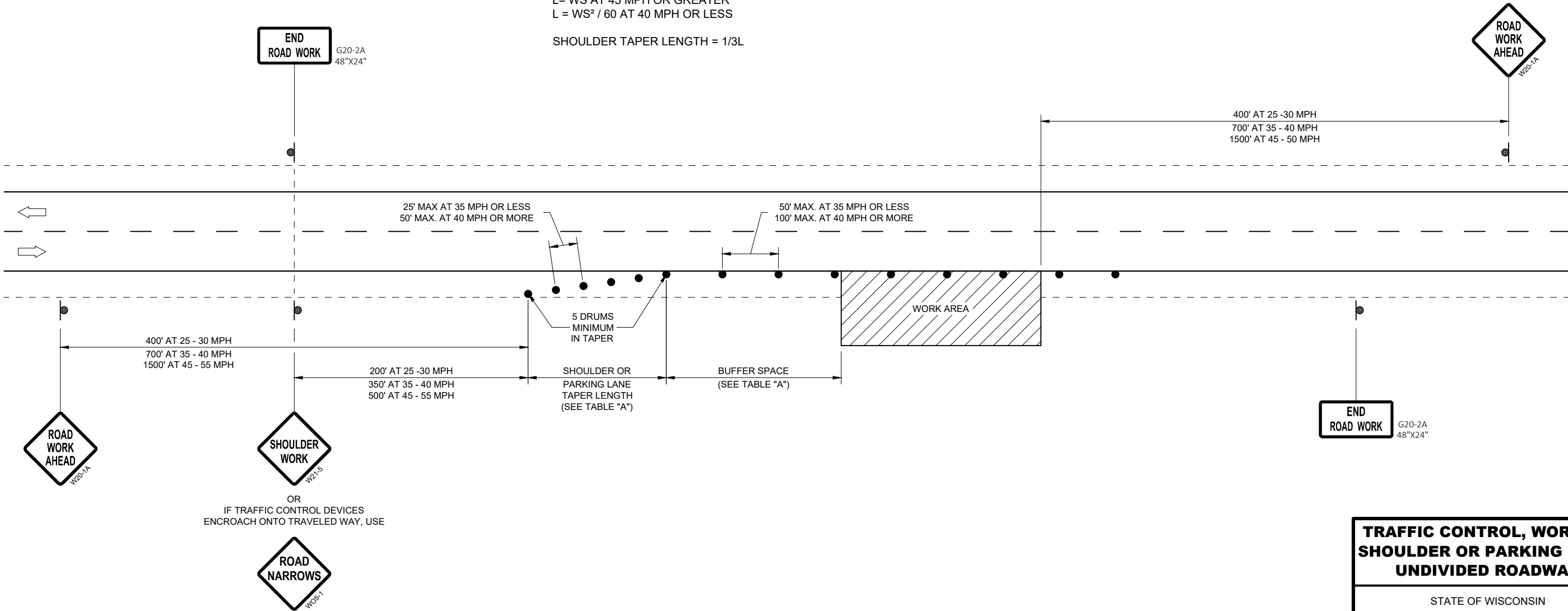
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY RESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

6

SDD 15D28 - 03



TRAFFIC CONTROL, WORK ON
SHOULDER OR PARKING LANE,
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

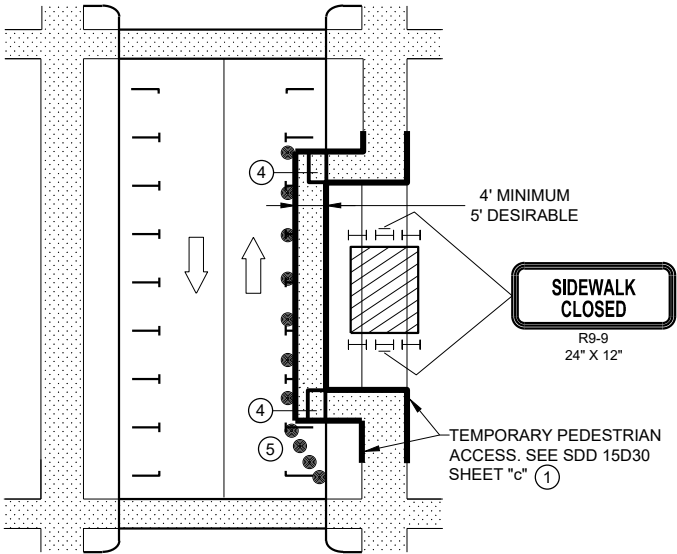
APPROVED
August 2019 DATE /S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

FHWA

6

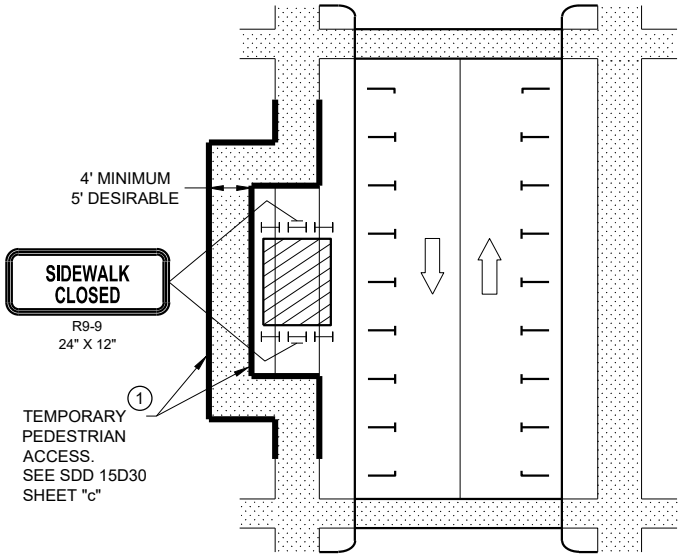
SDD 15D28 - 03

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

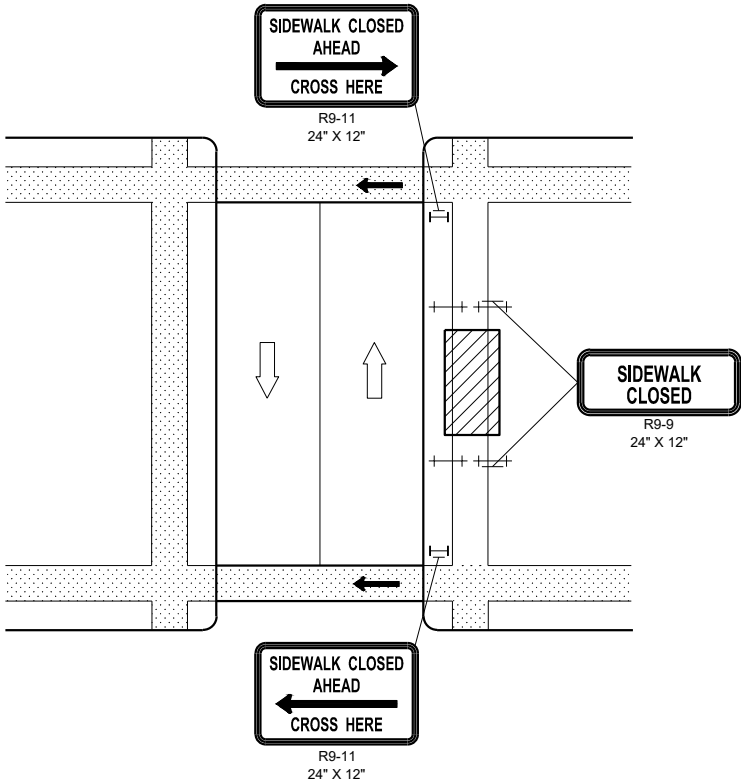


MID-BLOCK SIDEWALK CLOSURE
IN PARKING LANE

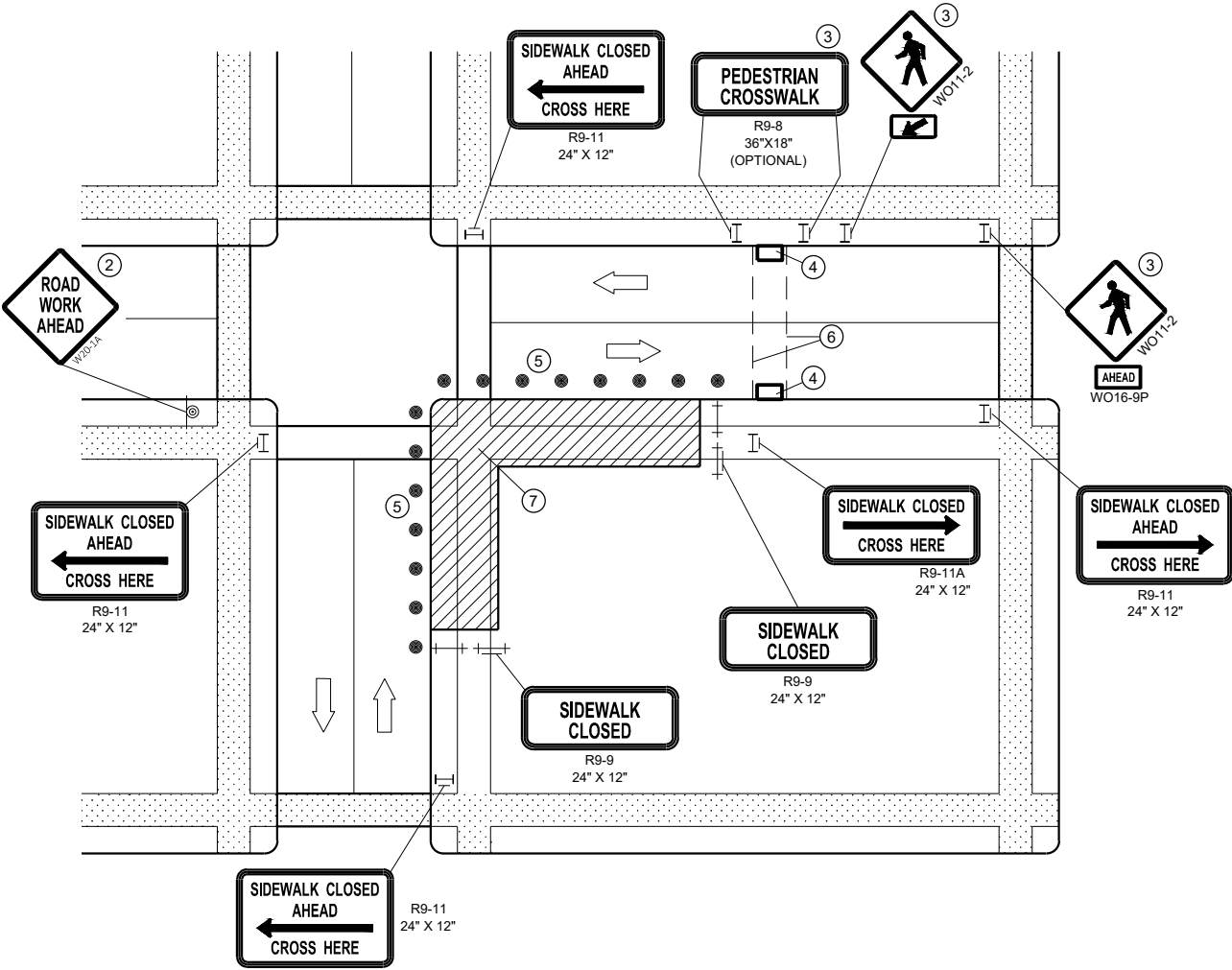
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK
CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- ① IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
- ② "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- ③ IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
- ④ TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b".
- ⑤ DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- ⑥ TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- ⑦ LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

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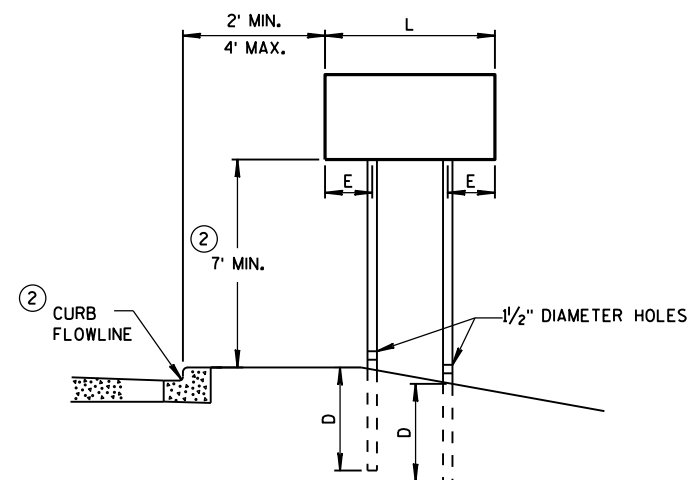
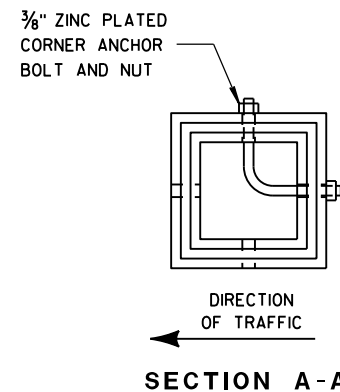
DETAIL OF TUBULAR STEEL SIGN POST

TUBULAR STEEL POSTS

| AREA OF SIGN INSTALLATION (SQ. FT.) | NUMBER OF REQUIRED TUBULAR STEEL POSTS |
|--|--|
| 9 OR LESS | 1 |
| GREATER THAN 9 LESS THAN OR EQUAL TO 18 | 2 |
| GREATER THAN 18 LESS THAN OR EQUAL TO 27 | 3 |

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

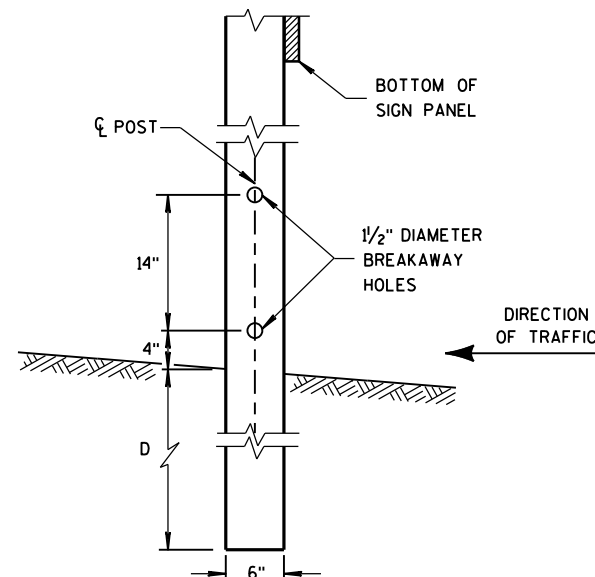


URBAN AREA

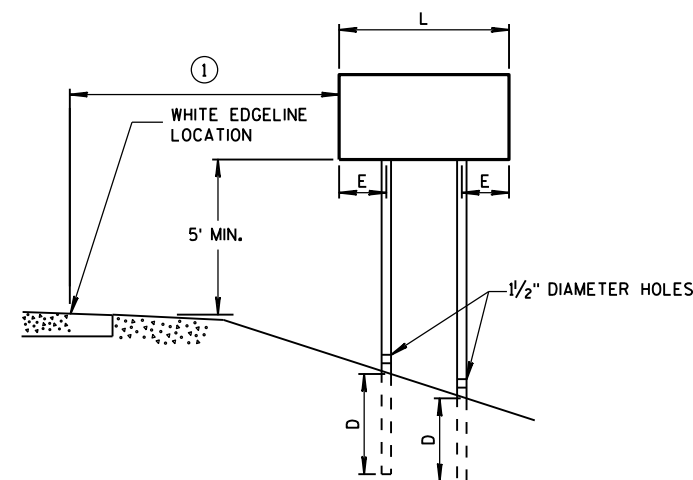
POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST EMBEDMENT DEPTH

| AREA OF SIGN INSTALLATION (SQ. FT.) | D (MIN) |
|-------------------------------------|---------|
| 20 OR LESS | 4' |
| GREATER THAN 20 | 5' |



4" x 6" WOOD POST MODIFICATION



RURAL AREA

4" X 6" WOOD POST

| POST SPACING REQUIREMENTS | | NUMBER OF WOOD POSTS REQUIRED |
|--------------------------------------|-----|-------------------------------|
| L | E | |
| 48" OR LESS AND LESS THAN 20 SQ. FT. | - | 1 |
| LESS THAN 60" | 12" | 2 |
| 60" TO 120" | L/5 | 2 |
| GREATER THAN 120" LESS THAN 168" | 12" | 3 |
| 168" AND GREATER | 12" | 4 |

SEE NOTE ③

GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

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NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" x 3"
 - MACHINE BOLTS - 5/16" x 6-1/2" OR 7" LENGTH W/ NUTS

- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" x 3-1/4" LENGTH W/ NUTS
 - RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

- WASHERS (ALL POSTS) -
- 1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
 - 1-1/4" O.D. x 3/8" I.D. x .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

| | |
|--|--|
| ATTACHMENT OF SIGNS TO POSTS | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED June 2017 DATE | /S/ Andrew Heidtke WORK ZONE ENGINEER |
| FHWA | |



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