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# STATE OF ALASKA

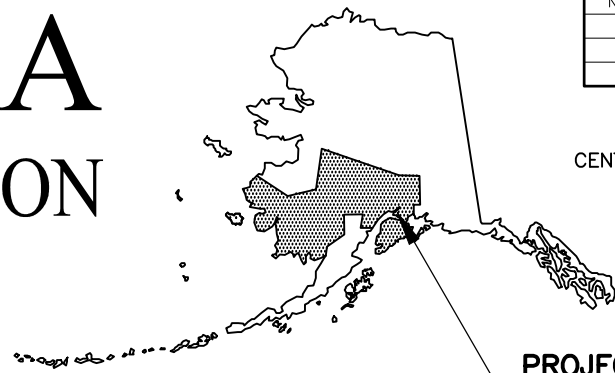
## DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

### PROPOSED HIGHWAY PROJECT

## TRUNK ROAD (NELSON ROAD) EXTENSION SOUTH, PHASE III (MSB)

### PROJECT NO. 0001747/CFHWY00889

#### GRADING, DRAINAGE, PAVING, BRIDGE, PATHWAYS, SIGNING, AND STRIPING



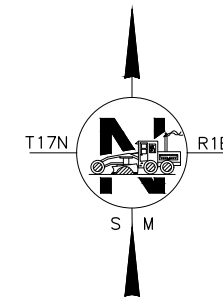
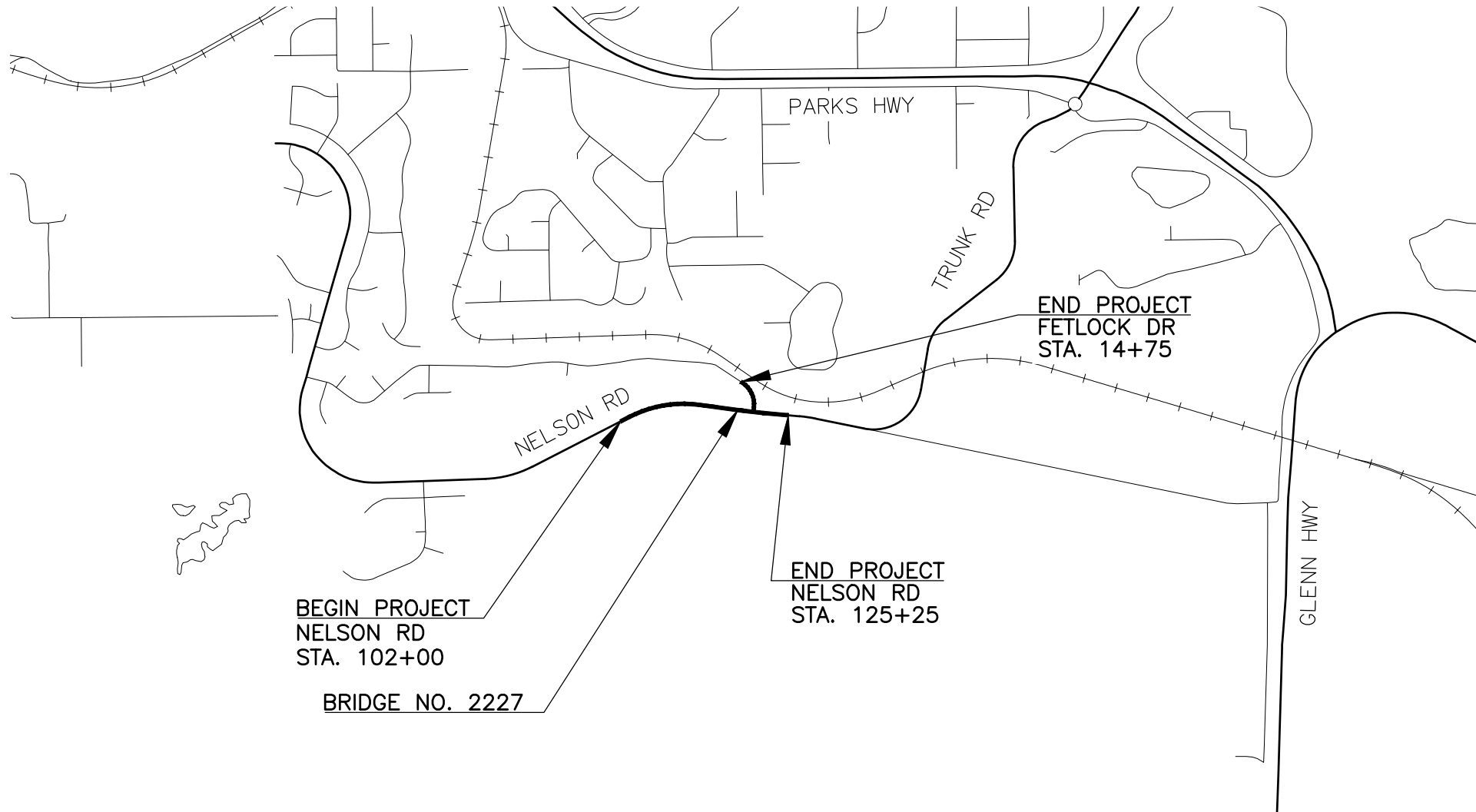
PROJECT LOCATION  
DOT&PF M&O STATION: PALMER  
MAT SU BOROUGH O&M

| NO. | DATE | REVISION |
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|     |      |          |
|     |      |          |

| STATE    | PROJECT DESIGNATION | YEAR      | SHEET NO.     | TOTAL SHEETS |
|----------|---------------------|-----------|---------------|--------------|
| ALASKA   | 0001747/CFHWY00889  | 2027      | A01           | A04          |
| ROUTE ID | 2381047X000         | MILEPOINT | 1.758 - 2.200 |              |
| LATITUDE | 61.550619           | LONGITUDE | -149.294271   |              |

| PROJECT SUMMARY          |       |           |
|--------------------------|-------|-----------|
| ROADWAY                  | WIDTH | LENGTH    |
| NELSON ROAD MP 1.76-2.20 | 34 FT | 0.44 MILE |

| DESIGN DESIGNATIONS             |                 |
|---------------------------------|-----------------|
|                                 | NELSON ROAD     |
| FUNCTIONAL CLASS                | MINOR COLLECTOR |
| AADT (2022)                     | 1,100           |
| AADT (2045)                     | 1,905           |
| DESIGN SPEED (V) (MPH)          | 45              |
| DHV (2022)                      | 241             |
| DHV (2045)                      | 241             |
| T-PERCENT COMMERCIAL TRUCKS (%) | 2.57            |
| D-DIRECTIONAL DISTRIBUTION (%)  | 51              |



PIH REVIEW  
JULY 2025

|                                                                                                                                   |      |
|-----------------------------------------------------------------------------------------------------------------------------------|------|
| STATE OF ALASKA<br>DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES<br>4111 AVIATION AVENUE, ANCHORAGE, AK 99502<br>(907)269-0555 |      |
| APPROVED:                                                                                                                         |      |
| REGIONAL PRECONSTRUCTION ENGINEER                                                                                                 | DATE |
| CONCUR:                                                                                                                           |      |
| REGIONAL CONSTRUCTION ENGINEER                                                                                                    | DATE |

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| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | A02       | A04          |



GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY, TEMPORARY CONSTRUCTION EASEMENTS, AND TEMPORARY CONSTRUCTION PERMITS. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.

2. THE RIGHT-OF-WAY LINES SHOWN WERE CREATED FOR THIS PROJECT BY DOT&PF ROW ENGINEERING AND ARE BASED ON RECORDED DOCUMENTS AND/OR PLATTED SUBDIVISIONS, AND SURVEYED MONUMENTS. THE RIGHT-OF-WAY LINES WERE INSERTED USING A COMMON COORDINATE SYSTEM.

3. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.

4. CLEARING LIMITS SHALL BE 10 FEET BEYOND SLOPE CATCH POINTS OR TO THE RIGHT-OF-WAY LINE, WHICHEVER IS LESS.

5. PLACE 4" TOPSOIL AND SEED ON ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.

6. THE EXISTING INFORMATION SHOWN IN THE PLANS IS FROM AS-BUILTS AND HAS BEEN PARTIALLY FIELD VERIFIED. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. ADJUST INSTALLATIONS AS DIRECTED BY THE ENGINEER.

7. ADJUST ALL PAVEMENT PENETRATIONS TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.
9. ALL STORM DRAIN MANHOLES AND TYPE "A" INLET BOXES SHALL HAVE MINIMUM 18" SUMPS, UNLESS STATED OTHERWISE IN THE PLANS.

10. PLACE CURB AND GUTTER PRIOR TO FINAL LIFT OF ASPHALT.

IF ANY PAVEMENT PENETRATION REQUIRES GRADE ADJUSTMENT AFTER FINAL LIFT PAVING, AS DETERMINED BY THE ENGINEER, SAW CUT A NEAT LINE ALONG THE PAVEMENT TO BE REMOVED. USE AN INFRARED HEATER TO HEAT THE EXISTING PAVEMENT; EQUIPMENT AND MAXIMUM TEMPERATURE SHALL BE APPROVED BY THE ENGINEER. REPLACE THE REMOVED ASPHALT WITH NEW HOT MIX ASPHALT AND THOROUGHLY COMPACT. SEAL JOINTS, AT LEAST 12 INCHES WIDE CENTERED ON JOINT, USING ASPHALT SYSTEMS GSB-88, OR APPROVED EQUAL, WHILE THE HOT MIX ASPHALT IS CLEAN, FREE OF MOISTURE AND PRIOR TO STRIPING.

THERE SHALL BE NO PAYMENT FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST PAVEMENT PENETRATIONS TO FINAL GRADE.

8. FOR PARALLEL GUARDRAIL TERMINALS, USE AN END OFFSET OF 2 FEET.

THE FOLLOWING CENTRAL REGION STANDARD DETAILS APPLY TO THIS PROJECT:

CR-T-01.20

IN THE EVENT OF CONFLICT, CENTRAL REGION STANDARD DETAILS SUPERSEDE ALASKA STANDARD PLANS, STANDARD MODIFICATIONS, AND STANDARD SPECIFICATIONS. PLANS AND SPECIAL PROVISIONS SUPERSEDE CENTRAL REGION STANDARD DETAILS.

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

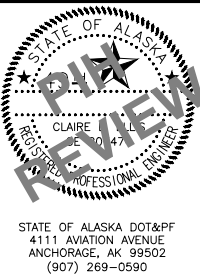
C-03.30, C-04.12, C-05.20, C-06.00  
D-01.02, D-04.22, D-06.10, D-08.00, D-22.01, D-26.04  
G-00.05, G-05.11S, G-05.11W, G-10.21, G-14.01, G-20.12, G-27.00, G-33.01  
I-21.12  
M-25.00  
S-05.02, S-31.02, S-32.02  
T-21.04

SPECIFICATION:

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2020 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS.

INDEX

| SHEET NO. | DESCRIPTION                            |
|-----------|----------------------------------------|
| A01       | TITLE SHEET                            |
| A02       | SHEET LAYOUT, INDEX, AND GENERAL NOTES |
| A03       | LEGEND                                 |
| A04-A0X   | SURVEY CONTROL SHEET(S)                |
| B01-B02   | TYPICAL SECTIONS                       |
| C01-C02   | ESTIMATE OF QUANTITIES                 |
| D01-D02   | SUMMARY TABLES                         |
| E01-E04   | DETAIL SHEETS                          |
| F01-F09   | PLAN AND PROFILE SHEETS                |
| G01-G02   | GRADING PLANS                          |
| H01-H09   | SIGNING, AND STRIPING                  |
| N01-N02   | BRIDGE SHEETS                          |
| R01-RXX   | RIGHT-OF-WAY MAPS                      |



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**TRUNK ROAD EXTENSION  
SOUTH, PHASE III**

**SHEET LAYOUT, INDEX,  
AND GENERAL NOTES**

STATE OF ALASKA DOT&PF  
4111 AVIATION AVENUE  
ANCHORAGE, AK 99502  
(907) 269-0590

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ROADWAY

|                                                | EXISTING | PROPOSED |
|------------------------------------------------|----------|----------|
| EDGE OF PAVEMENT                               |          |          |
| LIMIT OF CUT SLOPE & FILL SLOPE                |          |          |
| GRAVEL EDGE                                    |          |          |
| SIDEWALK AND PATH/TRAIL                        |          |          |
| CONCRETE CURB & GUTTER                         |          |          |
| CONCRETE CURB CUT                              |          |          |
| PARALLEL CURB RAMP                             |          |          |
| PERPENDICULAR CURB RAMP                        |          |          |
| UNIDIRECTIONAL CURB RAMP & MID-BLOCK CURB RAMP |          |          |
| DETECTABLE WARNING TILE                        |          |          |
| BRIDGE                                         |          |          |
| TUNNEL                                         |          |          |
| GUARDRAIL                                      |          |          |
| END & PARALLEL END SECTIONS                    |          |          |
| ROADWAY OBLITERATION                           |          |          |
| FENCE                                          |          |          |
| STONE FENCE                                    |          |          |
| NOISE BARRIER                                  |          |          |
| RETAINING WALL                                 |          |          |
| HEADWALL & WINGWALL                            |          |          |
| BOTTOM OF DITCH                                |          |          |
| SPECIAL DITCH                                  |          |          |
| FLAT BOTTOM DITCH                              |          |          |
| BERM                                           |          |          |
| RIPRAP                                         |          |          |
| BOULDER OR BOULDERS                            |          |          |
| PRIVATE SIGN, MAILBOX                          |          |          |
| POST, BOLLARD                                  |          |          |

UTILITIES

|                                                               | EXISTING | PROPOSED |
|---------------------------------------------------------------|----------|----------|
| STORM DRAIN                                                   |          |          |
| STORM DRAIN MANHOLE, CLEANOUT                                 |          |          |
| CURB INLET CATCH BASIN                                        |          |          |
| FIELD INLET CATCH BASIN                                       |          |          |
| PIPE CULVERT WITH END SECTION                                 |          |          |
| SANITARY SEWER                                                |          |          |
| SANITARY SEWER MANHOLE, CLEANOUT                              |          |          |
| SEPTIC VENT, SEWER SERVICE CONNECTION                         |          |          |
| WATER                                                         |          |          |
| FIRE HYDRANT, VALVE OR RISER                                  |          |          |
| WELL, WATER SERVICE CONNECTION                                |          |          |
| NATURAL GAS                                                   |          |          |
| OIL OR GASOLINE PIPELINE                                      |          |          |
| TANKS (ABOVE GROUND, UNDERGROUND)                             |          |          |
| ELECTRIC                                                      |          |          |
| UTILITY POLE, POLE WITH LUMINAIRE                             |          |          |
| GUY POLE, GUY WIRE ANCHOR                                     |          |          |
| TRANSMISSION TOWER (WOOD, STEEL)                              |          |          |
| ELECTRIC PEDESTAL, TRANSFORMER                                |          |          |
| ELECTRIC MANHOLE, METER                                       |          |          |
| ELECTRIC OUTLET, LANDSCAPE LIGHT                              |          |          |
| TELEPHONE                                                     |          |          |
| TELEPHONE MANHOLE, PEDESTAL                                   |          |          |
| FIBER OPTIC                                                   |          |          |
| FIBER OPTIC MANHOLE                                           |          |          |
| CABLE TV                                                      |          |          |
| CABLE TV PEDESTAL, SATELLITE DISH                             |          |          |
| UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC) |          |          |
| VENT                                                          |          |          |

TRAFFIC

|                                                 | EXISTING | PROPOSED |
|-------------------------------------------------|----------|----------|
| LOAD CENTER                                     |          |          |
| STATE TRAFFIC, MOA TRAFFIC, & BEACON CONTROLLER |          |          |
| ARROW INDICATES DOOR LOCATION                   |          |          |
| TYPE 1A, II, III, IV JUNCTION BOX               |          |          |
| FIBER OPTIC VAULT                               |          |          |
| ELECTROLIER                                     |          |          |
| HIGHTOWER                                       |          |          |
| SIGNAL POLE WITH MASTARM                        |          |          |
| PEDESTRIAN PUSH BUTTON & SIGNAL                 |          |          |
| VEHICULAR SIGNAL                                |          |          |
| VEHICULAR SIGNAL LEFT & RIGHT                   |          |          |
| OPTICAL, CAMERA, RADAR, AND GPS DETECTOR        |          |          |
| LOOP DETECTOR                                   |          |          |
| COMMUNICATION ANTENNA                           |          |          |
| MASTARM BEACON                                  |          |          |
| RURAL & SCHOOL ZONE BEACON                      |          |          |
| LOOP DETECTOR CONDUIT                           |          |          |
| SIGNAL CONDUIT                                  |          |          |
| LIGHTING CONDUIT                                |          |          |
| SIGNAL & LIGHTING CONDUIT                       |          |          |
| CONDUIT BORING                                  |          |          |
| CONDUIT SIZE IN INCHES                          |          |          |
| INTERCONNECT                                    |          |          |
| SIGN POST                                       |          |          |

PAVEMENT MARKINGS

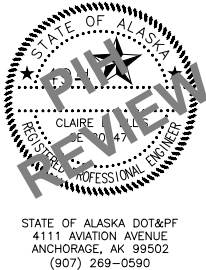
|                                  | PROPOSED |
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| TRAFFIC PROJECT CENTERLINE       |          |
| 8" & 4" WHITE SOLID STRIPE       |          |
| 4" WHITE SKIP STRIPE             |          |
| 10' STRIPES AND 30' SPACES       |          |
| 8" WHITE LANE GUIDE SKIP         |          |
| LANE CONTINUATION OR TURN SKIP   |          |
| 1" STRIPES AND 3' SPACES         |          |
| 8" & 4" YELLOW SOLID STRIPE      |          |
| 4" YELLOW SKIP STRIPE            |          |
| 10' STRIPES AND 30' SPACES       |          |
| STRIPING CHANGE STATION INTERVAL |          |
| 2' CROSSWALK OR STOPBAR          |          |
| LADDER CROSSWALK LAYOUT          |          |
| 2" WIDE RUNGS WITH 2' SPACES     |          |
| ALIGNED TO AVOID TIRE PATHS      |          |
| TYPICAL PAINTED MEDIAN           |          |

RIGHT-OF-WAY

|                                   | RECOVERED | SET THIS PROJECT |
|-----------------------------------|-----------|------------------|
| FEDERAL GOV'T SURVEY MONUMENT     |           |                  |
| GOV'T CONTROL STATION             |           |                  |
| PRIMARY MONUMENT (BRASS/AL CAP)   |           |                  |
| MISC SECONDARY CORNER             |           |                  |
| PRIMARY CENTERLINE MONUMENT       |           |                  |
| SECONDARY CENTERLINE MONUMENT     |           |                  |
| RANDOM CONTROL MONUMENT           |           |                  |
| PRIMARY GPS CONTROL POINT         |           |                  |
| HORIZONTAL CONTROL POINT          |           |                  |
| SECONDARY CONTROL POINT           |           |                  |
| VERTICAL BENCHMARK                |           |                  |
| TEMPORARY BENCHMARK               |           |                  |
| TOWNSHIP AND RANGE LINES          |           |                  |
| SECTION LINE                      |           |                  |
| 1/4 SECTION LINE                  |           |                  |
| 1/16 SECTION LINE                 |           |                  |
| CORPORATE or CITY LIMITS          |           |                  |
| EXISTING RIGHT-OF-WAY             |           |                  |
| RIGHT-OF-WAY OR EASEMENT REQUIRED |           |                  |
| PROJECT RIGHT-OF-WAY LINE         |           |                  |
| EXISTING RIGHT-OF-WAY EASEMENT    |           |                  |
| EXISTING PROPERTY LINE            |           |                  |
| CONTROLLED ACCESS LINE            |           |                  |
| EXISTING UTILITY EASEMENT         |           |                  |
| PROPOSED UTILITY EASEMENT         |           |                  |
| EXISTING CENTERLINE               |           |                  |
| RAILROAD CENTERLINE               |           |                  |
| TEMPORARY CONSTRUCTION EASEMENT   |           |                  |
| TEMPORARY CONSTRUCTION PERMIT     |           |                  |

TOPOGRAPHY

|                               | EXISTING | PROPOSED |
|-------------------------------|----------|----------|
| LAKE OR POND, WETLANDS        |          |          |
| TREE (CONIFER/DECIDUOUS)      |          |          |
| TREELINE (EDGE OF VEGETATION) |          |          |
| PLANTER                       |          |          |
| BUILDING OR FOUNDATION        |          |          |
| CONTOUR, MAJOR OR MINOR       |          |          |
| DRAINAGE FLOW                 |          |          |
| CREEK (CENTERLINE)            |          |          |
| RIVER (EDGE OF WATER)         |          |          |



STATE OF ALASKA  
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**TRUNK ROAD EXTENSION  
SOUTH, PHASE III**

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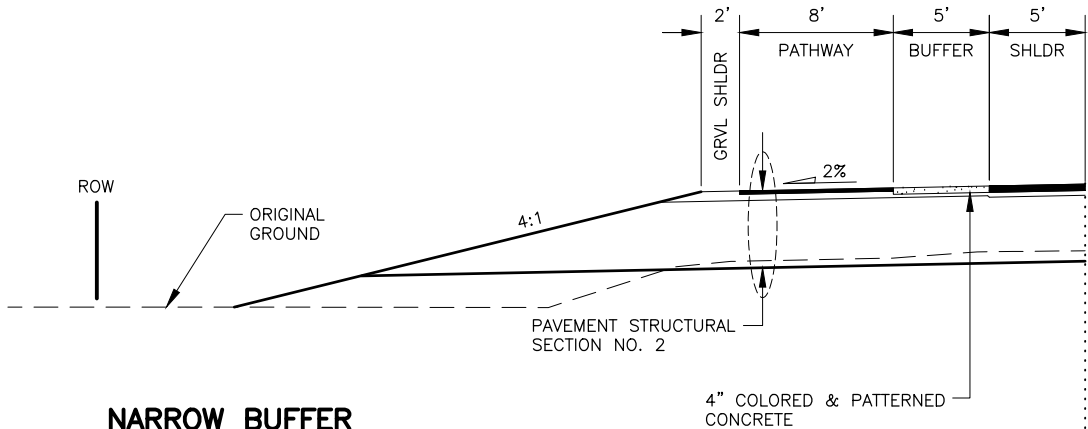
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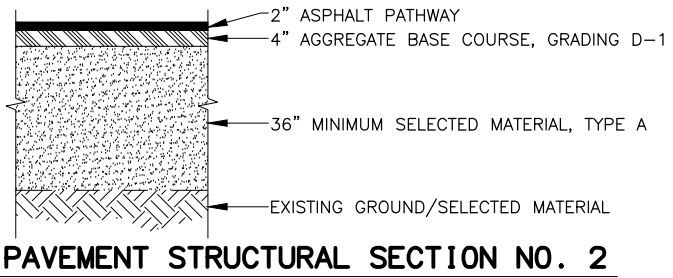
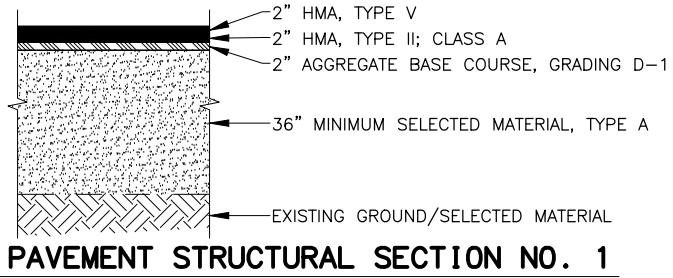
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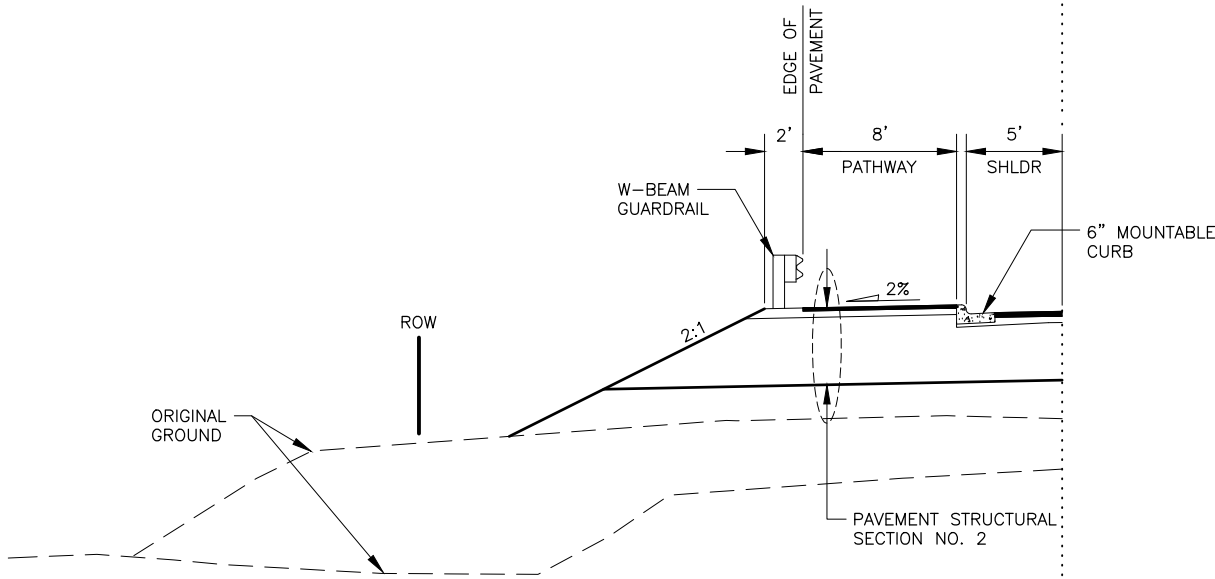
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|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | B01       | B02          |



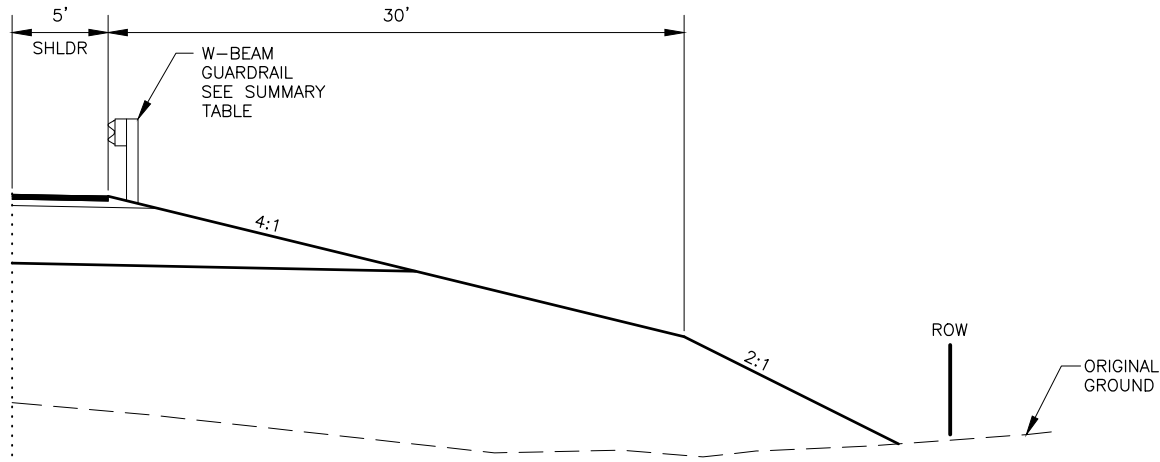
**NARROW BUFFER**  
STA. 120+73 TO STA. 124+15



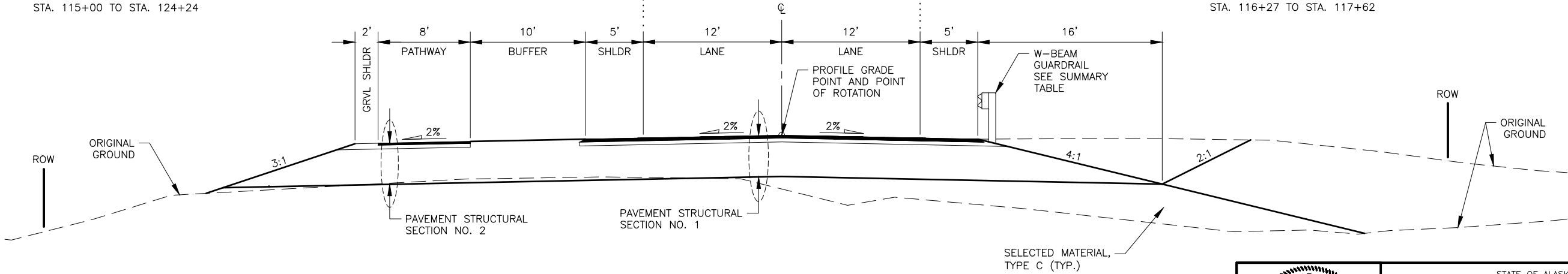
- NOTES:**
- WITHIN TWO (2) DAYS AFTER PAVING, PLACE AGGREGATE BASE COURSE, GRADING D-1 AGAINST PAVEMENT EDGE TO ENSURE THERE IS NO VERTICAL DROP AT THE EDGE OF PAVEMENT. USE APPROVED TRAFFIC CONTROL DEVICES IN THE INTERIM. APPLIES TO ALL SECTIONS.
  - WHERE CURB, BACKING CURB, CONCRETE BUFFER, OR CURB RAMPS ARE PRESENT, PLACE 2" OF AGGREGATE BASE COURSE, GRADING D-1 FOR LEVELING, OR AS DIRECTED BY THE ENGINEER. APPLIES TO ALL SECTIONS.



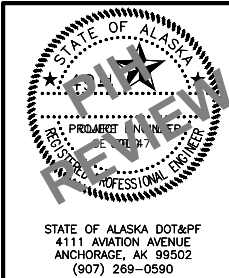
**CURB & GUTTER**  
STA. 115+00 TO STA. 124+24



**BARN ROOF SLOPE**  
STA. 116+27 TO STA. 117+62



**NELSON ROAD**  
STA. 102+00 TO STA. 125+25



STATE OF ALASKA  
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**TRUNK ROAD EXTENSION  
SOUTH, PHASE III**

**TYPICAL SECTIONS**

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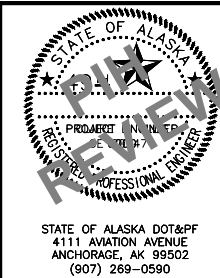
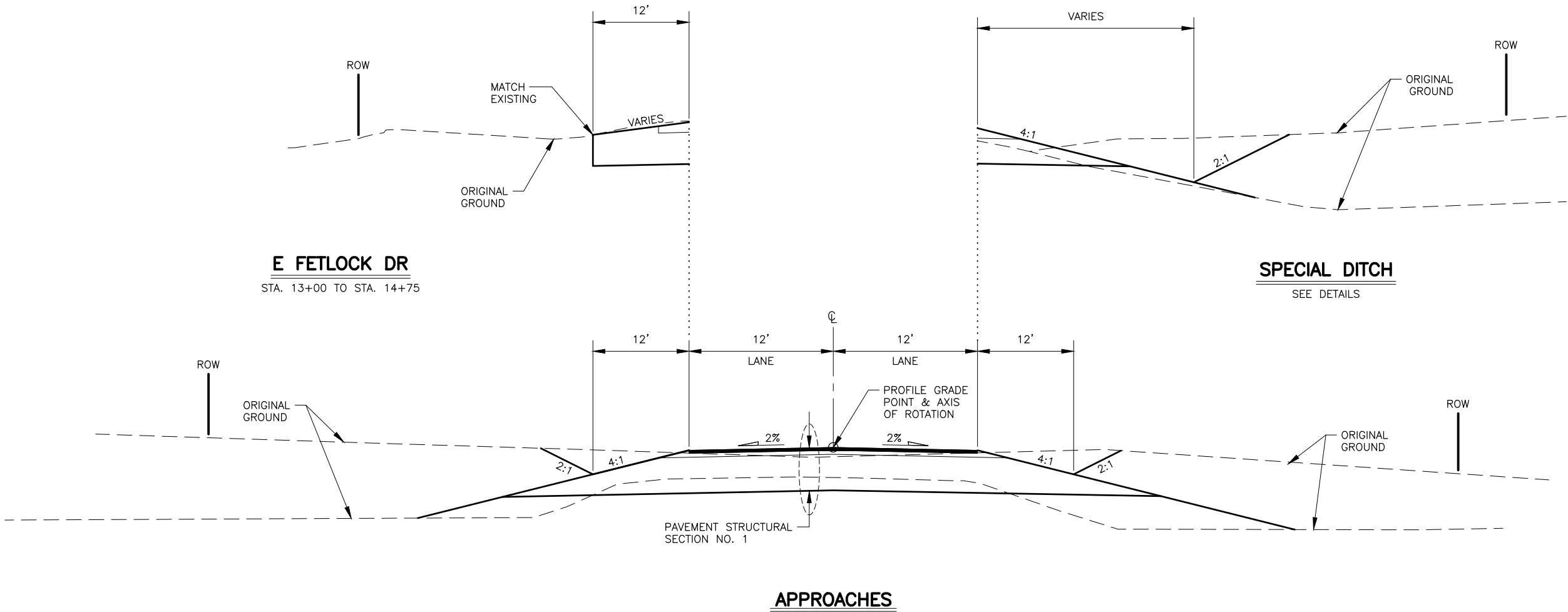
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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**TRUNK ROAD EXTENSION  
SOUTH, PHASE III**

**TYPICAL SECTIONS**

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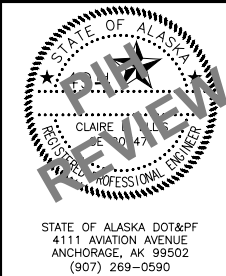
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| ESTIMATE OF QUANTITIES |                                                                         |          |                |
|------------------------|-------------------------------------------------------------------------|----------|----------------|
| ITEM NO.               | ITEM DESCRIPTION                                                        | PAY UNIT | TOTAL QUANTITY |
| 201.0003.0000          | CLEARING AND GRUBBING                                                   | ACRE     | 4.30           |
| 202.0001.0000          | REMOVAL OF STRUCTURES AND OBSTRUCTIONS                                  | LS       | ALL REQ'D      |
| 202.0002.0000          | REMOVAL OF PAVEMENT                                                     | SY       | 9,400          |
| 202.0004.0000          | REMOVAL OF CULVERT PIPE                                                 | LF       | 398.0          |
| 202.0023.0000          | REMOVAL OF BRIDGE NO. 2227                                              | LS       | ALL REQ'D      |
| 203.0003.0000          | UNCLASSIFIED EXCAVATION                                                 | CY       | 13,500         |
| 203.0006.000A          | BORROW, TYPE A                                                          | TON      | 39,000         |
| 203.0006.000C          | BORROW, TYPE C                                                          | TON      | 11,000         |
| 203.0009.0000          | OBLITERATION OF ROADWAY                                                 | SY       | 2,100          |
| 205.0006.0000          | STRUCTURAL FILL                                                         | CY       | 1,650          |
| 301.0001.00D1          | AGGREGATE BASE COURSE, GRADING D-1                                      | TON      | 2,050          |
| 301.0003.00E1          | AGGREGATE SURFACE COURSE, GRADING E-1                                   | TON      | 210            |
| 401.0001.002A          | HMA, TYPE II; CLASS A                                                   | TON      | 1,300          |
| 401.0004.5240          | ASPHALT BINDER, GRADE PG 52-40 V                                        | TON      | 70             |
| 401.0008.002A          | HMA PRICE ADJUSTMENT,TYPE II; CLASS A                                   | CS       | ALL REQ'D      |
| 401.0009.0000          | LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT                             | CS       | ALL REQ'D      |
| 401.0010.0001          | PAVEMENT SMOOTHNESS PRICE ADJUSTMENT, METHOD 1                          | CS       | ALL REQ'D      |
| 401.0014.0000          | JOINT ADHESIVE                                                          | LF       | 3,650          |
| 401.2021.0000          | ASPHALT BINDER PRICE ADJUSTMENT                                         | CS       | ALL REQ'D      |
| 408.2001.002A          | HMA, TYPE V                                                             | TON      | 1,300          |
| 408.2004.6440          | ASPHALT BINDER, GRADE PG 64-40 E                                        | TON      | 70             |
| 408.2008.002A          | HMA PRICE ADJUSTMENT,TYPE VE                                            | CS       | ALL REQ'D      |
| 408.2009.0000          | LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT                             | CS       | ALL REQ'D      |
| 408.2010.0001          | PAVEMENT SMOOTHNESS PRICE ADJUSTMENT, METHOD 1                          | CS       | ALL REQ'D      |
| 408.2014.0000          | JOINT ADHESIVE                                                          | LF       | 3,650          |
| 408.2021.0000          | ASPHALT BINDER PRICE ADJUSTMENT                                         | CS       | ALL REQ'D      |
| 501.0001.0000          | CLASS A CONCRETE                                                        | LS       | ALL REQ'D      |
| 501.0007.0000          | PRECAST CONCRETE MEMBER, 110'-0" DECKED BULB-TEE                        | EA       | 8.0            |
| 503.0001.0000          | REINFORCING STEEL                                                       | LS       | ALL REQ'D      |
| 503.0002.0000          | EPOXY-COATED REINFORCING STEEL                                          | LS       | ALL REQ'D      |
| 505.0005.0000          | FURNISH STRUCTURAL STEEL PILES, 2'-0" DIA. X 1/2" PIPE                  | LF       | 1,600          |
| 505.0006.0000          | DRIVE STRUCTURAL STEEL PILES, 2'-0" DIA. X 1/2" PIPE                    | EA       | 16             |
| 507.0001.0002          | STEEL BRIDGE RAILING, 2-TUBE                                            | LF       | 170.0          |
| 507.0001.0003          | STEEL BRIDGE RAILING, 3-TUBE                                            | LF       | 170.0          |
| 508.0001.0000          | WATERPROOF MEMBRANE, SPRAY-APPLIED                                      | LS       | ALL REQ'D      |
| 603.2032.0024          | CORRUGATED HDPE PIPE 24 INCH                                            | LF       | 239.0          |
| 603.2033.0024          | END SECTION FOR CORRUGATED HDPE PIPE 24 INCH                            | EA       | 5              |
| 604.0005.000A          | INLET, TYPE A                                                           | EA       | 1              |
| 606.0001.0000          | W-BEAM GUARDRAIL                                                        | LF       | 362.5          |
| 606.0013.0000          | PARALLEL GUARDRAIL TERMINAL                                             | EA       | 3              |
| 606.0016.0000          | TRANSITION RAIL                                                         | EA       | 4              |
| 606.2011.0000          | DOWNSTREAM END ANCHOR                                                   | EA       | 1              |
| 608.0006.0000          | CURB RAMP                                                               | EA       | 1              |
| 608.2002.0000          | ASPHALT PATHWAY                                                         | TON      | 280            |
| 608.2013.E004          | CONCRETE, TYPE V, 4 INCHES THICK, COLORED AND PATTERN IMPRINTED, BUFFER | SY       | 310            |
| 608.2017.0000          | DETECTABLE WARNING TILE                                                 | EA       | 3              |

| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | C01       | C02          |



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

TRUNK ROAD EXTENSION  
SOUTH, PHASE III

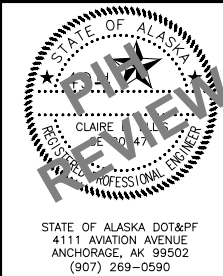
ESTIMATE OF QUANTITIES

STATE OF ALASKA DOT&PF  
4111 AVIATION AVENUE  
ANCHORAGE, AK 99502  
(907) 269-0590

| ESTIMATE OF QUANTITIES CON'T |                                                                |          |                |
|------------------------------|----------------------------------------------------------------|----------|----------------|
| ITEM NO.                     | ITEM DESCRIPTION                                               | PAY UNIT | TOTAL QUANTITY |
| 609.0002.0001                | CURB AND GUTTER, TYPE 1                                        | LF       | 355            |
| 611.0002.0002                | RIPRAP, CLASS II                                               | TON      | 2,400          |
| 615.0001.0000                | STANDARD SIGN                                                  | SF       | 157.25         |
| 615.0002.0000                | REMOVE AND RELOCATE SIGN                                       | EA       | 4              |
| 618.0002.0000                | SEEDING                                                        | LB       | 310            |
| 618.0003.0000                | WATER FOR SEEDING                                              | MGAL     | 190            |
| 619.2002.0000                | TURF REINFORCEMENT MAT                                         | SY       | 455            |
| 620.0001.0000                | TOPSOIL                                                        | SY       | 20,700         |
| 627.0010.0000                | ADJUSTMENT OF VALVE BOX                                        | EACH     | 2              |
| 631.0002.0001                | GEOTEXTILE, EROSION CONTROL, CLASS I                           | SY       | 2,400          |
| 639.2000.0000                | APPROACH                                                       | EA       | 3              |
| 640.0001.0000                | MOBILIZATION AND DEMOBILIZATION                                | LS       | ALL REQ'D      |
| 641.0001.0000                | EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION        | LS       | ALL REQ'D      |
| 641.0005.0000                | TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE | CS       | ALL REQ'D      |
| 641.0006.0000                | WITHHOLDING                                                    | CS       | ALL REQ'D      |
| 641.0007.0000                | SWPPP MANAGER                                                  | LS       | ALL REQ'D      |
| 642.0001.0000                | CONSTRUCTION SURVEYING                                         | LS       | ALL REQ'D      |
| 642.0003.0000                | THREE PERSON SURVEY PARTY                                      | HR       | 100            |
| 642.2005.0000                | CONTRACTOR-FURNISHED COMPUTATIONS                              | LS       | ALL REQ'D      |
| 642.2006.0000                | CONTRACTOR-FURNISHED ENGINEERING TOOLS                         | CS       | ALL REQ'D      |
| 643.0002.0000                | TRAFFIC MAINTENANCE                                            | LS       | ALL REQ'D      |
| 643.0003.0000                | PERMANENT CONSTRUCTION SIGNS                                   | LS       | ALL REQ'D      |
| 643.0023.0000                | TRAFFIC PRICE ADJUSTMENT                                       | CS       | ALL REQ'D      |
| 643.0025.0000                | TRAFFIC CONTROL                                                | CS       | ALL REQ'D      |
| 643.0032.0000                | FLAGGING                                                       | CS       | ALL REQ'D      |
| 644.0001.0000                | FIELD OFFICE                                                   | LS       | ALL REQ'D      |
| 644.2004.0000                | ENGINEERING COMMUNICATIONS                                     | CS       | ALL REQ'D      |
| 645.0001.0000                | TRAINING PROGRAM, 1 TRAINEES / APPRENTICES                     | LH       | 300            |
| 646.0001.0000                | CPM SCHEDULING                                                 | LS       | ALL REQ'D      |
| 647.2002.0000                | BACKHOE, 4WD, 1 CY BUCKET, 75 HP MIN, 15 FT DEPTH              | CS       | ALL REQ'D      |
| 670.0001.0000                | PAINTED TRAFFIC MARKINGS                                       | LS       | ALL REQ'D      |
| 670.2000.0000                | MMA PAVEMENT MARKINGS                                          | LS       | ALL REQ'D      |
| 682.2000.0000                | VAC-TRUCK POTHOLE                                              | CS       | ALL REQ'D      |
| 688.2001.0000                | UTILITY SUPPORT                                                | CS       | ALL REQ'D      |
| 688.2002.0000                | UTILITY SUPPORT PRICE ADJUSTMENT                               | CS       | ALL REQ'D      |

| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | C02       | C02          |

| TABLE OF ESTIMATING FACTORS |                                       |                                       |
|-----------------------------|---------------------------------------|---------------------------------------|
| ITEM NO.                    | ITEM DESCRIPTION                      | UNIT                                  |
| 203.0006.0000               | BORROW                                | 144 LB/CF                             |
| 301.0001.0001               | AGGREGATE BASE COURSE, GRADING D-1    | 144 LB/CF                             |
| 301.0003.00E1               | AGGREGATE SURFACE COURSE, GRADING E-1 | 144 LB/CF                             |
| 401.0001.002A               | HMA, TYPE II; CLASS A                 | 151 LB/CF                             |
| 401.0004.5240               | ASPHALT BINDER, GRADE PG 52-40 V      | 5.3% OF TOTAL WEIGHT OF 401.0001.002A |
| 408.2001.000V               | HMA, TYPE V                           | 151 LB/CF                             |
| 408.2004.6440               | ASPHALT BINDER, GRADE PG 64-40 E      | 5.3% OF TOTAL WEIGHT OF 408.2004.6440 |
| 608.2002.0000               | ASPHALT PATHWAY                       | 151 LB/CF                             |
| 618.0003.0000               | WATER FOR SEEDING                     | 1.0 GAL/SF                            |



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
  
TRUNK ROAD EXTENSION  
SOUTH, PHASE III

ESTIMATE OF QUANTITIES

STATE OF ALASKA DOT&PF  
4111 AVIATION AVENUE  
ANCHORAGE, AK 99502  
(907) 269-0590

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| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | D00       | D02          |
|     |      |          |        |                     |      |           |              |
|     |      |          |        |                     |      |           |              |

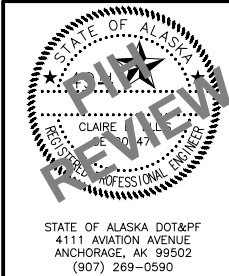
FOR REVIEW ONLY.

| EARTHWORK SUMMARY             |         |        |                              |            |                                       |                                                          |                                |                               |                       |         |
|-------------------------------|---------|--------|------------------------------|------------|---------------------------------------|----------------------------------------------------------|--------------------------------|-------------------------------|-----------------------|---------|
| SHEET                         | STATION |        | ESTIMATED EXCAVATION         |            |                                       |                                                          | ESTIMATED EMBANKMENT           |                               |                       | REMARKS |
|                               |         |        | UNCLASSIFIED EXCAVATION (CY) | WASTE (CY) | UNCLASSIFIED EXCAVATION (USABLE) (CY) | SHRUNK UNCL. EX. USABLE AS SELECTED MATERIAL TYPE C (CY) | SELECTED MATERIAL, TYPE A (CY) | SELECTED MATERIAL TYPE C (CY) | TOTAL EMBANKMENT (CY) |         |
|                               | FROM    | TO     |                              |            |                                       |                                                          |                                |                               |                       |         |
|                               |         |        |                              |            |                                       |                                                          |                                |                               |                       |         |
| F01                           | 102+00  | 104+50 | 2,064.95                     | 619.49     | 1,445.47                              | 1,228.65                                                 | 1,604.57                       |                               | 1,604.57              |         |
| F02                           | 104+50  | 109+50 | 5,020.28                     | 1,506.08   | 3,514.20                              | 2,987.07                                                 | 4,599.58                       |                               | 4,599.58              |         |
| F03                           | 109+50  | 114+50 | 1,650.55                     | 495.17     | 1,155.39                              | 982.08                                                   | 3,942.72                       | 496.41                        | 4,439.13              |         |
| F04/F08                       | 114+50  | 119+50 | 1,222.77                     | 366.83     | 855.94                                | 727.55                                                   | 3,979.70                       | 8,067.80                      | 12,047.50             |         |
| F05/F09                       | 119+50  | 124+50 | 3,104.75                     | 931.43     | 2,173.33                              | 1,847.33                                                 | 5,559.18                       | 3,931.07                      | 9,490.25              |         |
| F06                           | 124+50  | 125+25 | 140.11                       | 42.03      | 98.08                                 | 83.37                                                    | 71.81                          | 31.86                         | 103.67                |         |
|                               |         |        |                              |            |                                       |                                                          |                                |                               |                       |         |
| SUBTOTAL (CY)                 |         |        | 13,203.41                    | 3,961.02   | 9,242.39                              | 7,856.03                                                 | 19,757.56                      | 12,527.14                     | 32,284.70             |         |
| LESS EXCAVATION (CY)          |         |        |                              |            |                                       |                                                          |                                | 7,856.03                      |                       |         |
| ITEM NUMBER                   |         |        | 203.0003.0000                |            |                                       |                                                          | 203.0006.000A                  | 203.0006.000C                 |                       |         |
| TOTAL PAY ITEM QUANTITY (CY)  |         |        | 13,500                       |            |                                       |                                                          | 19,757.56                      | 4,671.11                      |                       |         |
| TOTAL PAY ITEM QUANTITY (TON) |         |        |                              |            |                                       |                                                          | 39,000                         | 11,000                        |                       |         |

NOTES:

1. WASTE = 0.30 x UNCLASSIFIED EXCAVATION
2. UNCLASSIFIED EXCAVATION (USABLE) = UNCLASSIFIED EXCAVATION - WASTE
3. ESTIMATED SHRUNK COMMON EXCAVATION (USABLE) = 0.15 x UNCLASSIFIED EXCAVATION (USABLE)
4. TOTAL EMBANKMENT = SELECTED MATERIAL, TYPE C + SELECTED MATERIAL, TYPE A

THIS SHEET WILL BE REMOVED FOR ADVERTISEMENT UNLESS THE CONSTRUCTION PROJECT MANAGER REQUIRES IT. IF IT'S REQUIRED, THE SHEET NUMBER WILL BECOME **D1**.



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

TRUNK ROAD EXTENSION  
SOUTH, PHASE III

SUMMARY TABLES

| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | D01       | D02          |
|     |      |          |        |                     |      |           |              |
|     |      |          |        |                     |      |           |              |

| CLEARING AND GRUBBING - 201.0003.0000 |         |        |              |                     |
|---------------------------------------|---------|--------|--------------|---------------------|
| SHEET                                 | STATION |        | AREA (ACRES) | REMARKS             |
|                                       | FROM    | TO     |              |                     |
| F01                                   | 102+00  | 104+50 | 0.42         | CLEAR & GRUB TO ROW |
| F02                                   | 104+50  | 109+50 | 0.96         | CLEAR & GRUB TO ROW |
| F03                                   | 109+50  | 114+50 | 0.81         | CLEAR & GRUB TO ROW |
|                                       |         |        |              |                     |
| F04                                   | 114+50  | 119+50 | 1.18         | CLEAR & GRUB TO ROW |
| F05/F09                               | 119+50  | 124+50 | 0.80         | CLEAR & GRUB TO ROW |
| F06                                   | 124+50  | 125+25 | 0.06         | CLEAR & GRUB TO ROW |
|                                       |         |        |              |                     |
| PAY ITEM QUANTITY:                    |         |        | 4.30         |                     |

| REMOVAL OF STRUCTURES AND OBSTRUCTIONS - 202.0001.0000 |         |        |           |
|--------------------------------------------------------|---------|--------|-----------|
| SHEET                                                  | STATION | OFFSET | REMARKS   |
| F02                                                    | 102+00  | 28 LT  | LUMINAIRE |
|                                                        |         |        |           |
| PAY ITEM QUANTITY:                                     |         | 1      |           |

| REMOVAL OF PAVEMENT - 202.0002.0000 |         |        |           |         |
|-------------------------------------|---------|--------|-----------|---------|
| SHEET                               | STATION |        | AREA (SY) | REMARKS |
|                                     | FROM    | TO     |           |         |
| F01                                 | 102+00  | 104+50 | 809.0     |         |
| F02                                 | 104+50  | 109+50 | 1,971.0   |         |
| F03                                 | 109+50  | 114+50 | 1,541.0   |         |
|                                     |         |        |           |         |
| F04                                 | 114+50  | 119+50 | 1,404.0   |         |
| F05/F09                             | 119+50  | 124+50 | 3,314.0   |         |
| F06                                 | 124+50  | 125+25 | 335.0     |         |
|                                     |         |        |           |         |
| PAY ITEM QUANTITY:                  |         |        | 9,400.0   |         |

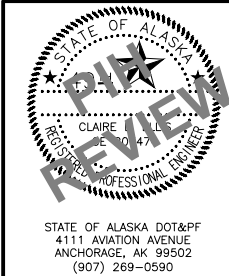
| REMOVAL OF CULVERT PIPE - 202.0004.0000 |         |        |             |                  |
|-----------------------------------------|---------|--------|-------------|------------------|
| SHEET                                   | STATION | OFFSET | LENGTH (FT) | REMARKS          |
| F02                                     | 108+25  | 34 LT  | 60.0        |                  |
| F02                                     | 108+98  | 46 LT  | 41.0        |                  |
|                                         |         |        |             |                  |
| F04                                     | 115+67  | 50 RT  | 30.0        |                  |
| F04                                     | 117+56  | CL     | 55.0        | NORTH END BURIED |
| F04                                     | 119+30  | CL     | 71.5        |                  |
|                                         |         |        |             |                  |
| F05                                     | 119+61  | CL     | 67.5        |                  |
| F05                                     | 122+14  | CL     | 72.5        |                  |
|                                         |         |        |             |                  |
| PAY ITEM QUANTITY:                      |         |        | 397.5       |                  |

| OBLITERATION OF ROADWAY - 203.0009.0000 |         |          |         |         |           |                      |
|-----------------------------------------|---------|----------|---------|---------|-----------|----------------------|
| SHEET                                   | FROM    |          | TO      |         | AREA (SY) | REMARKS              |
|                                         | STATION | OFFSET   | STATION | OFFSET  |           |                      |
| F01/F02                                 | 103+97  | 39.5 LT  | 107+97  | 51.5 LT | 3,328.3   | EXISTING PATH        |
| F02/F03                                 | 108+52  | 51.5 LT  | 110+05  | 45.0 LT | 843.0     | EXISTING PATH        |
| F03/F04                                 | 112+25  | 49.0 LT  | 116+45  | 34.5 LT | 2,707.4   | BOULDERS ON ROADSIDE |
|                                         |         |          |         |         |           |                      |
| F04/F08                                 | 114+74  | 290.0 RT | 115+29  | 67.0 RT | 3,330.5   | OLD TRAIL/TRAILHEAD  |
| F05/F09                                 | 120+03  | 291.5 LT | 124+02  | 62.0 LT | 8,344.3   | GRAVEL LOT           |
|                                         |         |          |         |         |           |                      |
| PAY ITEM QUANTITY:                      |         |          |         |         | 21,000.0  |                      |

| CURB RAMP & DETECTIBLE TILE - 608.0006.0000 & 608.2017.0000 |         |          |          |                 |     |        |         |
|-------------------------------------------------------------|---------|----------|----------|-----------------|-----|--------|---------|
| SHEET                                                       | STATION | OFFSET   | QUANTITY | TYPE            | ASP | DETAIL | REMARKS |
|                                                             |         |          |          |                 |     |        |         |
| F02                                                         | 107+76  | 21.09 LT | 1        | DETECTABLE TILE |     | X      |         |
| F02                                                         | 108+74  | 21.09 LT | 1        | DETECTABLE TILE |     | X      |         |
|                                                             |         |          |          |                 |     |        |         |
| F05                                                         | 120+11  | 19.68 LT | 1        | DIRECTIONAL     |     | X      |         |
| F05                                                         | 120+83  | 26.00 LT | 1        | DETECTABLE TILE |     | X      |         |
|                                                             |         |          |          |                 |     |        |         |
| PAY ITEM QUANTITY:                                          |         |          | 4        |                 |     |        |         |

| CONCRETE, TYPE V, 4 INCHES THICK, COLORED AND PATTERN IMPRINTED - 608.2013.E004 |         |        |         |        |           |         |
|---------------------------------------------------------------------------------|---------|--------|---------|--------|-----------|---------|
| SHEET                                                                           | FROM    |        | TO      |        | AREA (SY) | REMARKS |
|                                                                                 | STATION | OFFSET | STATION | OFFSET |           |         |
| F02                                                                             | 107+16  | LT     | 107+75  | LT     | 35.6      |         |
| F02                                                                             | 108+75  | LT     | 109+33  | LT     | 35.6      |         |
|                                                                                 |         |        |         |        |           |         |
| F03/F04                                                                         | 114+00  | LT     | 115+00  | LT     | 58.3      |         |
| F05                                                                             | 120+83  | LT     | 124+15  | LT     | 176.6     |         |
|                                                                                 |         |        |         |        |           |         |
| PAY ITEM QUANTITY:                                                              |         |        |         |        | 310.0     |         |

| CURB AND GUTTER SUMMARY - 609.0002.0001 |          |        |          |        |                             |
|-----------------------------------------|----------|--------|----------|--------|-----------------------------|
| SHEET                                   | FROM     |        | TO       |        | CURB AND GUTTER TYPE 1 (LF) |
|                                         | STATION  | OFFSET | STATION  | OFFSET |                             |
| F04                                     | 115+00.0 | LT     | 117+43.0 | LT     | 246.8                       |
| F05                                     | 119+20.0 | LT     | 120+12.5 | LT     | 108.1                       |
|                                         |          |        |          |        |                             |
| PAY ITEM QUANTITY:                      |          |        |          |        | 355.0                       |



STATE OF ALASKA  
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AND PUBLIC FACILITIES  
  
TRUNK ROAD EXTENSION  
SOUTH, PHASE III

SUMMARY TABLES

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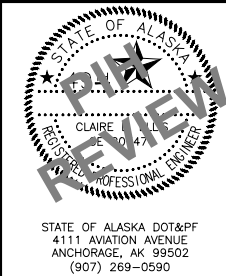
|     |      |          |        |                     |      |           |              |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | D02       | D02          |
|     |      |          |        |                     |      |           |              |
|     |      |          |        |                     |      |           |              |

| 606 ITEMS - GUARDRAIL SUMMARY |                    |        |        |                             |                                           |                            |                              |                                     |                     |         |
|-------------------------------|--------------------|--------|--------|-----------------------------|-------------------------------------------|----------------------------|------------------------------|-------------------------------------|---------------------|---------|
| SHEET                         | STATION TO STATION |        |        | 606.0001.0000               | 606.0013.0000                             | 606.0016.0000              | DOWNSTREAM<br>END<br>ANCHOR* | GUARDRAIL<br>FLEXIBLE<br>DELINEATOR | GUARDRAIL<br>CASE** | REMARKS |
|                               | FROM               | TO     | OFFSET | W-BEAM<br>GUARDRAIL<br>(FT) | PARALLEL<br>GUARDRAIL<br>TERMINAL<br>(EA) | TRANSITION<br>RAIL<br>(EA) |                              |                                     |                     |         |
| F03/F04                       | 114+10             | 117+44 | LT     | 312.5                       |                                           | 1                          | 1                            | X                                   | 3                   |         |
| F04                           | 115+87             | 117+68 | RT     | 12.5                        | 1                                         | 1                          |                              | X                                   | 3                   |         |
|                               |                    |        |        |                             |                                           |                            |                              |                                     |                     |         |
| F04/F05                       | 119+09             | 120+18 | LT     | 37.5                        | 1                                         | 1                          |                              | X                                   | 3                   |         |
| F04/F05                       | 119+34             | 122+04 | RT     | 0.0                         | 1                                         | 1                          |                              | X                                   | 3                   |         |
|                               |                    |        |        |                             |                                           |                            |                              |                                     |                     |         |
| PAY ITEM QUANTITY:            |                    |        |        | 362.50                      |                                           |                            |                              |                                     |                     |         |

| 619.2002.0000 - TURF REINFORCEMENT MAT |         |        |        |              |         |
|----------------------------------------|---------|--------|--------|--------------|---------|
| SHEET                                  | STATION |        | OFFSET | AREA<br>(SY) | REMARKS |
|                                        | FROM    | TO     |        |              |         |
|                                        |         |        |        |              |         |
| F01                                    | 102+00  | 104+00 | LT     | 455.0        |         |
|                                        |         |        |        |              |         |
| PAY ITEM QUANTITY:                     |         |        |        | 455.0        |         |

| 627.0010.0000 - ADJUSTMENT OF VALVE BOX |           |          |         |
|-----------------------------------------|-----------|----------|---------|
| SHEET                                   | STATION   | OFFSET   | REMARKS |
|                                         |           |          |         |
| F04                                     | 116+27.61 | 30.63 LT |         |
| F05                                     | 121+21.91 | 46.86 LT |         |
|                                         |           |          |         |
| TOTAL:                                  |           | 2        |         |
| PAY ITEM QUANTITY:                      |           | 2        |         |

| APPROACH SUMMARY - 639.2000.0000 |         |        |                          |      |      |      |               |                |         |
|----------------------------------|---------|--------|--------------------------|------|------|------|---------------|----------------|---------|
| SHEET                            | STATION | OFFSET | SKEW ANGLE<br>(90° TYP.) | TYPE |      |      | WIDTH<br>(FT) | LENGTH<br>(FT) | REMARKS |
|                                  |         |        |                          | PUB. | RES. | COM. |               |                |         |
| F02                              | 108+25  | LT     | 90                       | X    |      |      | 24            | 57             |         |
|                                  |         |        |                          |      |      |      |               |                |         |
| F04                              | 115+75  | RT     | 90                       |      |      | X    | 24            | 250            |         |
|                                  |         |        |                          |      |      |      |               |                |         |
| F05                              | 120+50  | LT     | 90                       | X    |      |      | 24            | 475            |         |
|                                  |         |        |                          |      |      |      |               |                |         |
| PAY ITEM QUANTITY:               |         |        |                          | 3    |      |      |               |                |         |

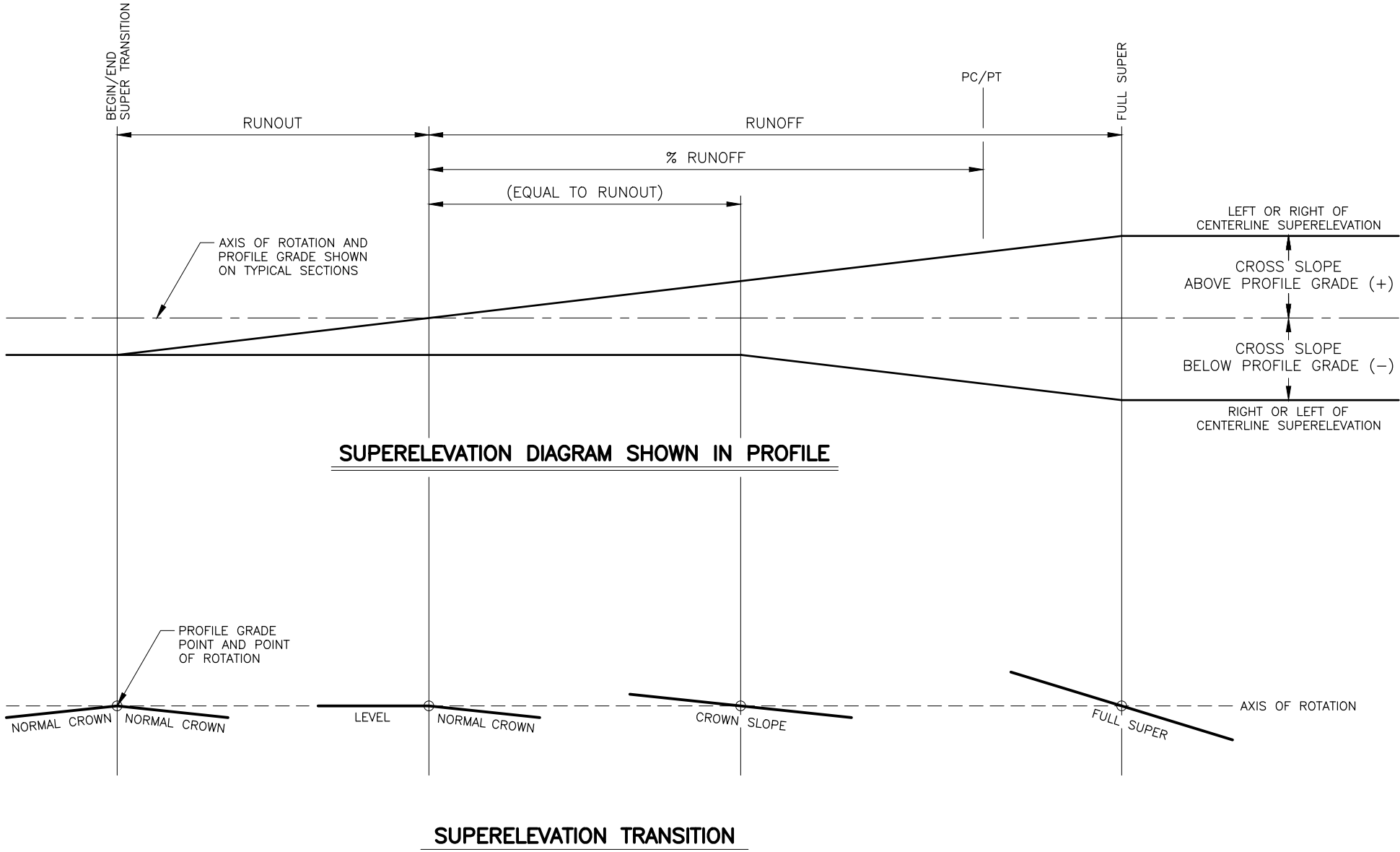


STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
  
TRUNK ROAD EXTENSION  
SOUTH, PHASE III

SUMMARY TABLES

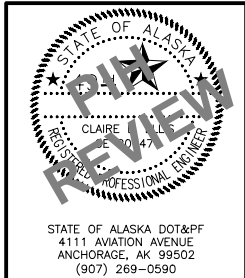
STATE OF ALASKA DOT&PF  
4111 AVIATION AVENUE  
ANCHORAGE, AK 99502  
(907) 269-0590

| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | E01       | E04          |
|     |      |          |        |                     |      |           |              |
|     |      |          |        |                     |      |           |              |



**SUPERELEVATION NOTES:**

- REFER TO PLAN AND PROFILE SHEETS FOR SUPERELEVATION VALUES AND SPECIAL CASES.
- BUILD SUPERELEVATION INTO SUBGRADE AND CARRY THROUGH SHOULDERS.
- % RUNOFF = PORTION OF RUNOFF ON TANGENT.
- WIDENING FOR GUARDRAIL OR CURVATURE DOES NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION.



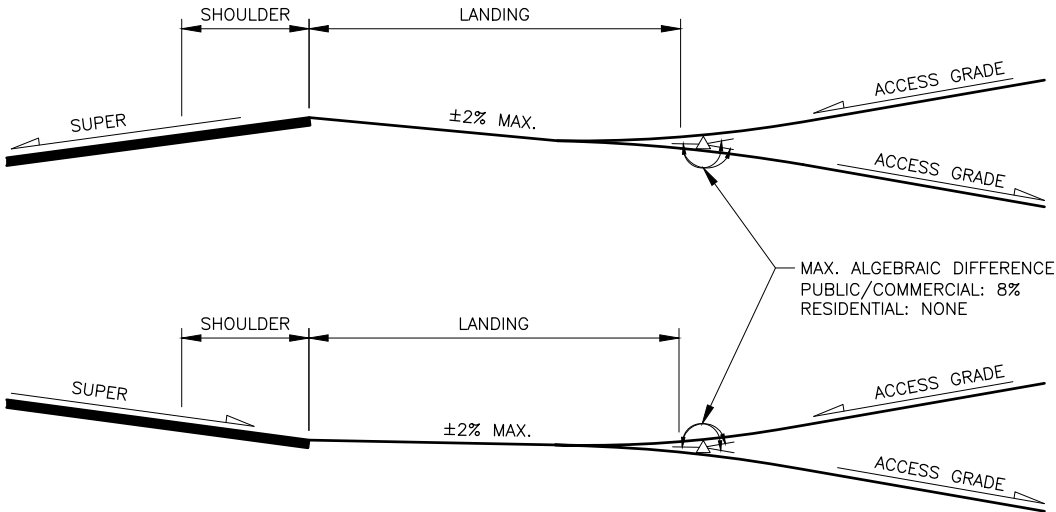
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

**TRUNK ROAD EXTENSION  
SOUTH, PHASE III**

**SUPERELEVATION  
TRANSITIONS**

STATE OF ALASKA DOT&PF  
4111 AVIATION AVENUE  
ANCHORAGE, AK 99502  
(907) 269-0590

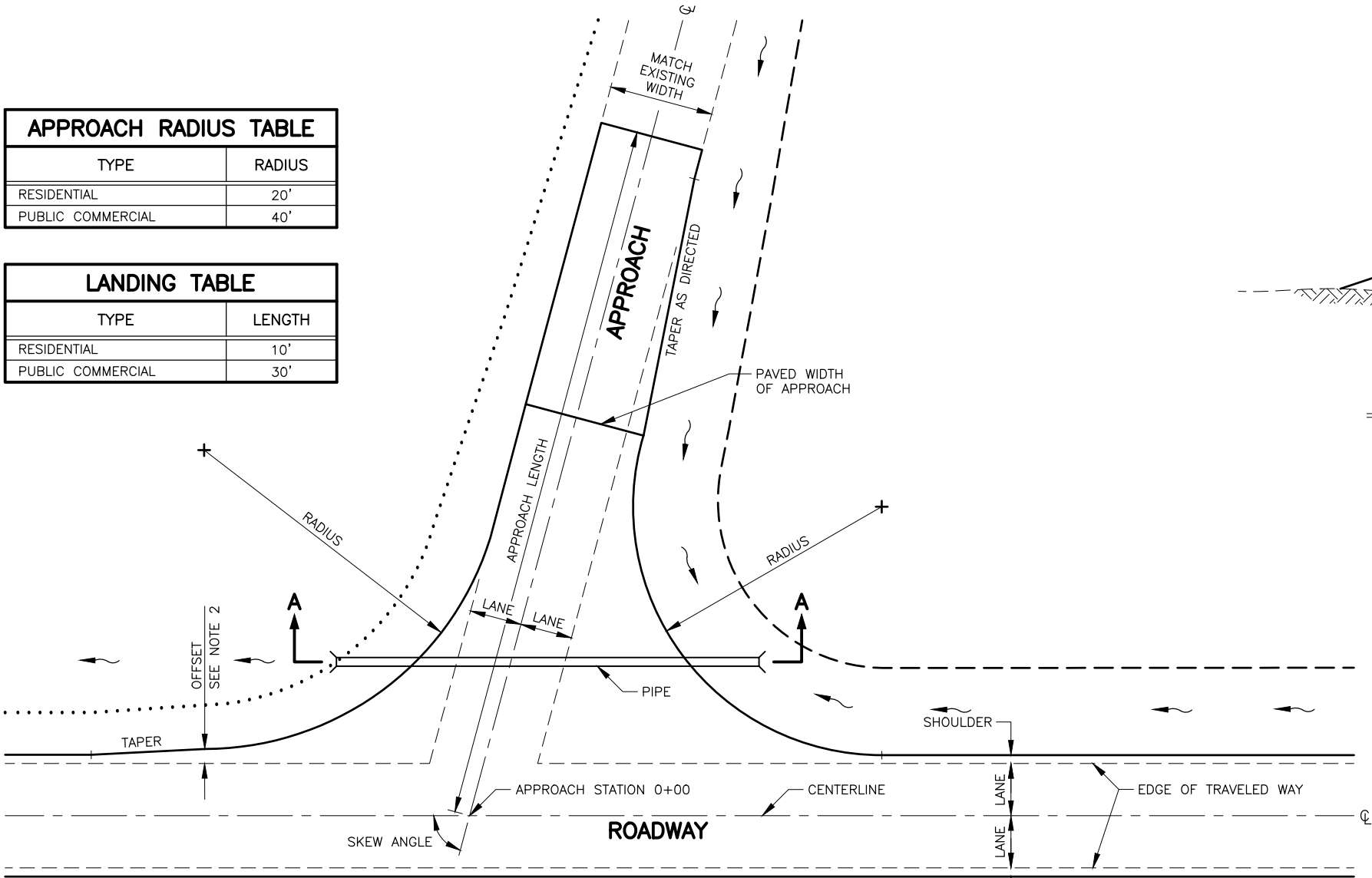
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|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | E02       | E04          |



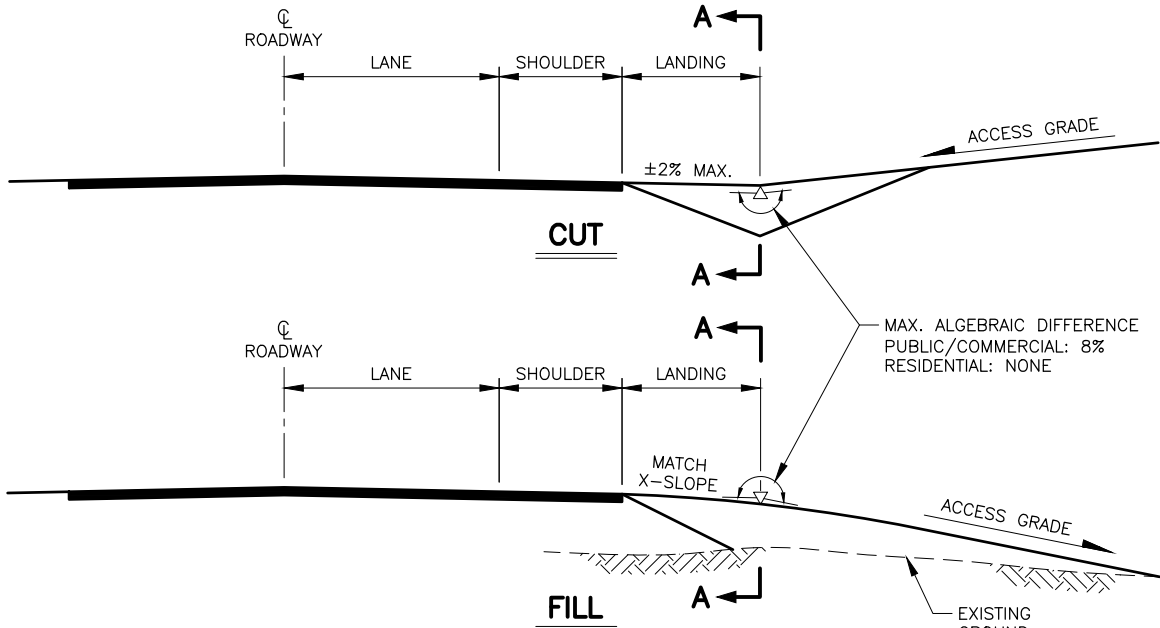
APPROACH PROFILES ON SUPER ELEVATED ROADWAY

| APPROACH RADIUS TABLE |        |
|-----------------------|--------|
| TYPE                  | RADIUS |
| RESIDENTIAL           | 20'    |
| PUBLIC COMMERCIAL     | 40'    |

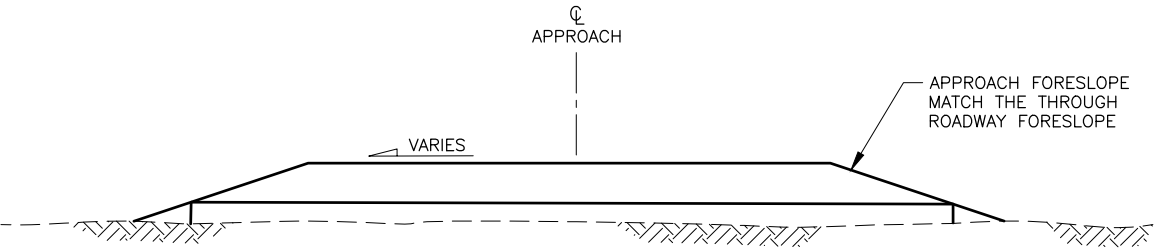
| LANDING TABLE     |        |
|-------------------|--------|
| TYPE              | LENGTH |
| RESIDENTIAL       | 10'    |
| PUBLIC COMMERCIAL | 30'    |



APPROACH PLAN



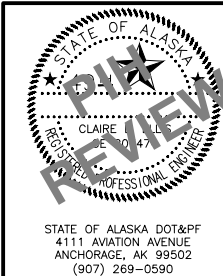
APPROACH PROFILES



SECTION A-A  
APPROACH TYPICAL

NOTES:

- SEE APPROACH SUMMARY FOR APPROACH STATION, LENGTH, WIDTH, SKEW ANGLE, AND TYPE.
- THE TAPER OFFSET FROM TRAVELED WAY = ASSIGNED VALUE OR SHOULDER WIDTH WHICHEVER IS LARGER. TAPER WILL BE 10 FEET IN LENGTH FOR EACH FOOT OF OFFSET.
- SEE PUBLIC APPROACH AND DRIVEWAY TYPICAL SECTIONS.
- APPROACH VERTICAL CURVE REQUIREMENTS: CREST - 2½ INCH MAXIMUM IN A 10-FOOT CHORD  
SAG - 2 INCH MAXIMUM IN A 10-FOOT CHORD
- ACCESS GRADE MAX. 15%

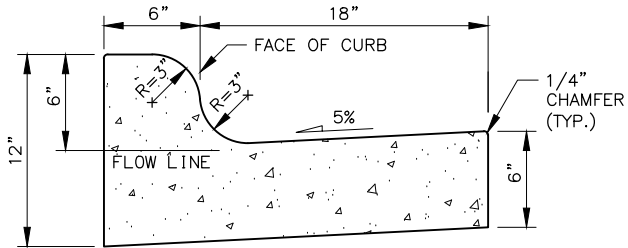


STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

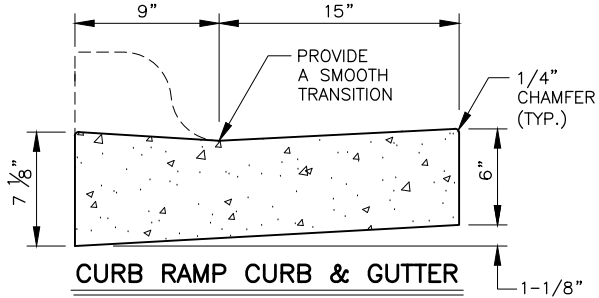
TRUNK ROAD EXTENSION  
SOUTH, PHASE III

APPROACH DETAILS

| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | E03       | E04          |



6" MOUNTABLE CURB & GUTTER

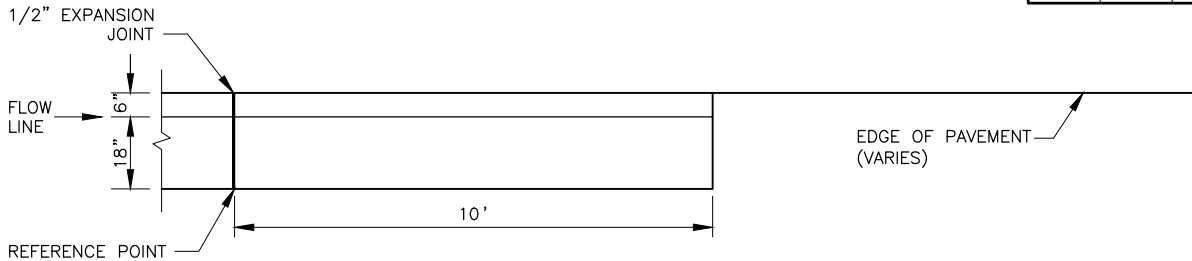


CURB RAMP CURB & GUTTER

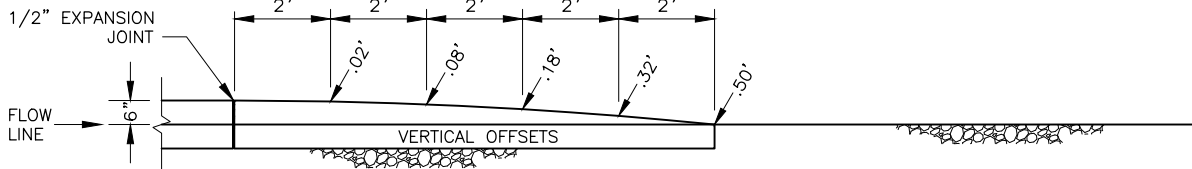
CURBS

CURB NOTE:

MOUNTABLE, DEPRESSED, ROLLED, AND EXPRESSWAY GUTTER PANS SHALL MATCH THE ROADWAY CROSS SLOPE IN THE HIGH SIDE OF SUPER ELEVATED AREAS.



PLAN

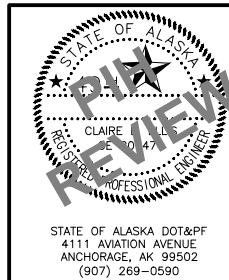


PROFILE

CURB & GUTTER TERMINATION TRANSITIONS

TERMINATION NOTES:

1. CONCRETE BUFFER ADJACENT TO CURB TERMINATIONS SHALL FOLLOW THE HORIZONTAL AND VERTICAL OFFSETS DETAILED IN THE CURB & GUTTER TERMINATION TRANSITIONS.
2. MAINTAIN 4" MINIMUM THICKNESS OF CONCRETE BUFFER THROUGHOUT CURB & GUTTER TERMINATION TRANSITIONS.

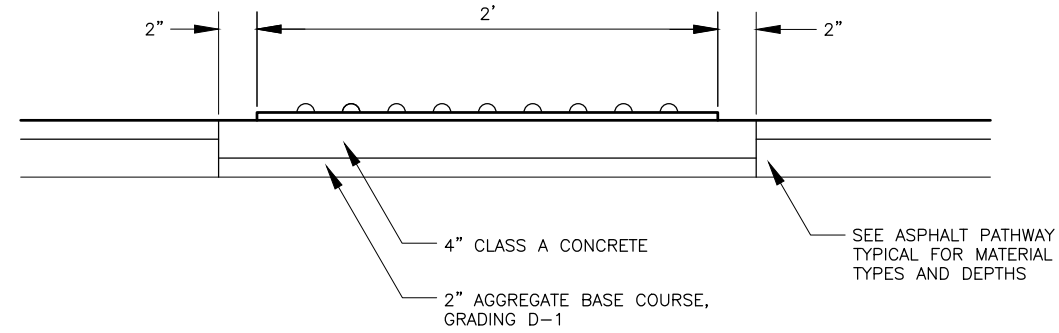


STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
TRUNK ROAD EXTENSION  
SOUTH, PHASE III

CURB & GUTTER DETAILS

STATE OF ALASKA DOT&PF  
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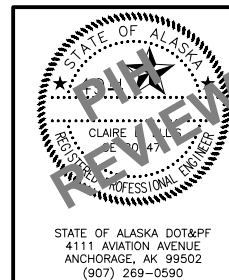
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| DRAWING LOCATION                                                                         | DATE      | TIME     | SCALE    | DESIGNED BY |
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|                                                                                          |           |          |          | CLE         |
|                                                                                          |           |          |          | ZDK         |



SECTION A-A

ASPHALT PATHWAY NOTES:

1. SEE STD. DWG I-21.12 FOR ADDITIONAL REQUIREMENTS OF DETECTABLE WARNING TILES.



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

**TRUNK ROAD EXTENSION  
SOUTH, PHASE III**

### ASPHALT PATHWAY DETECTABLE WARNING TILES DETAILS

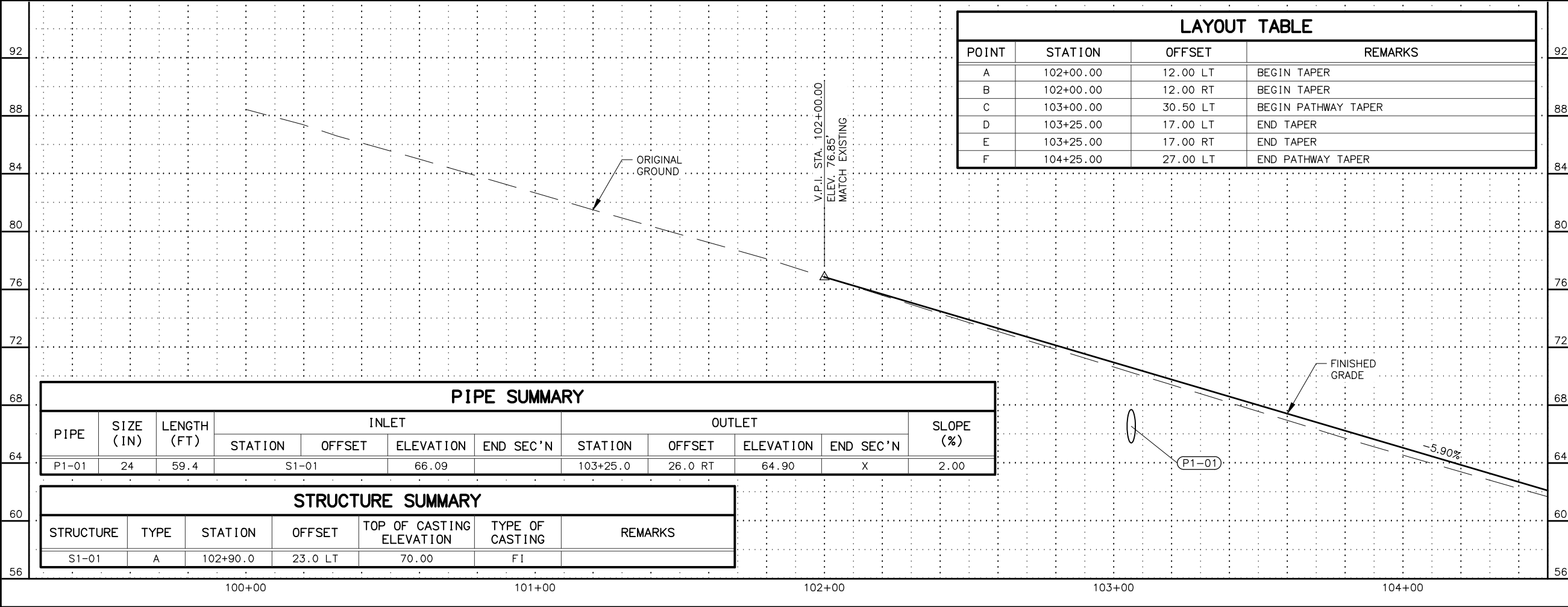
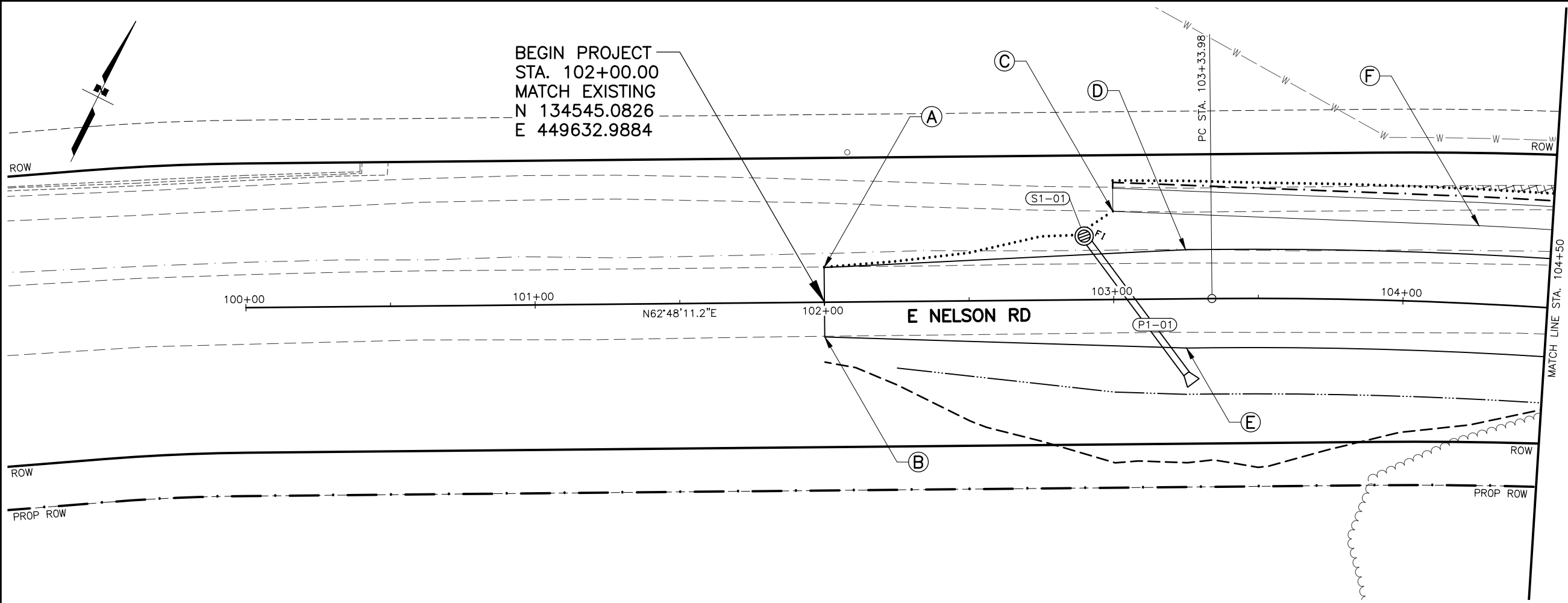
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DATE 7/17/2025 TIME 10:32 AM

SCALE 1" = 20'

DESIGNED BY  
CHECKED BY  
DRAFTED BY

UP  
C/E  
ZDK



| LAYOUT TABLE |           |          |                     |
|--------------|-----------|----------|---------------------|
| POINT        | STATION   | OFFSET   | REMARKS             |
| A            | 102+00.00 | 12.00 LT | BEGIN TAPER         |
| B            | 102+00.00 | 12.00 RT | BEGIN TAPER         |
| C            | 103+00.00 | 30.50 LT | BEGIN PATHWAY TAPER |
| D            | 103+25.00 | 17.00 LT | END TAPER           |
| E            | 103+25.00 | 17.00 RT | END TAPER           |
| F            | 104+25.00 | 27.00 LT | END PATHWAY TAPER   |

SHEET NO.  
F01

TOTAL SHEETS  
F09

STATE  
ALASKA

YEAR  
2027

PROJECT DESIGNATION  
0001747/  
CFHWY00889

NO.

DATE

NO.

DATE

NO.

DATE

REVISION

REVISION

REVISION

REVISION

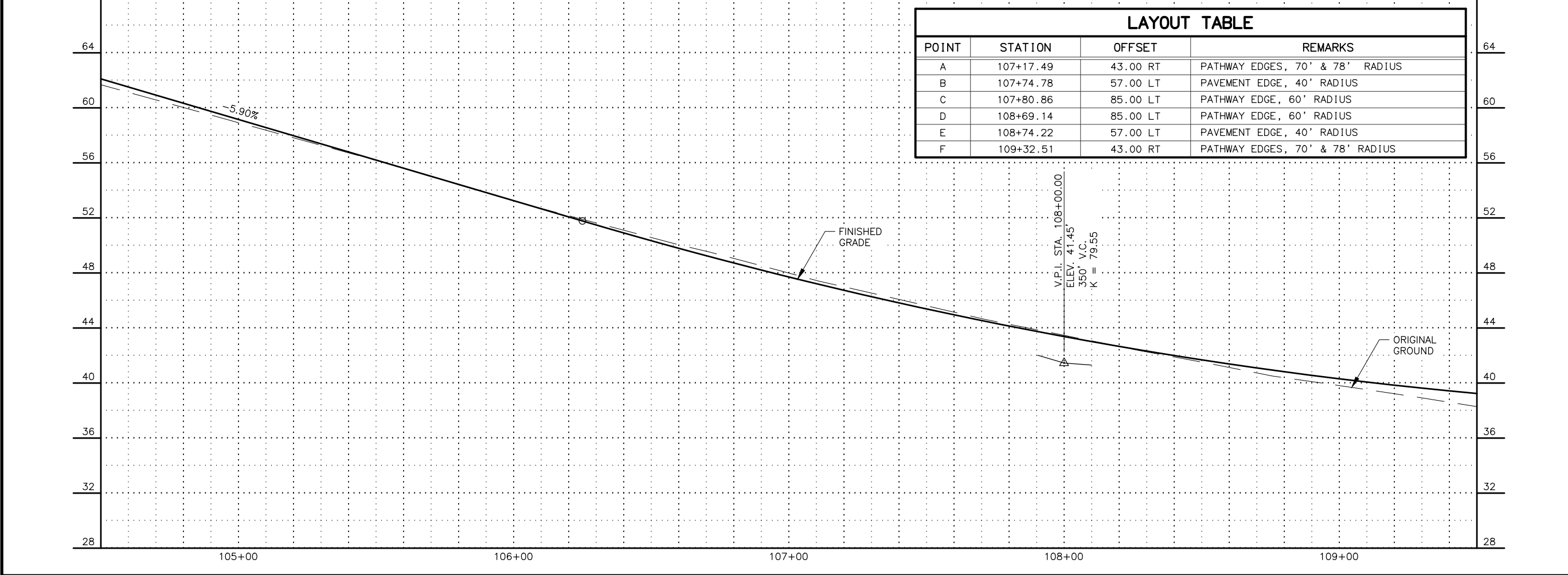
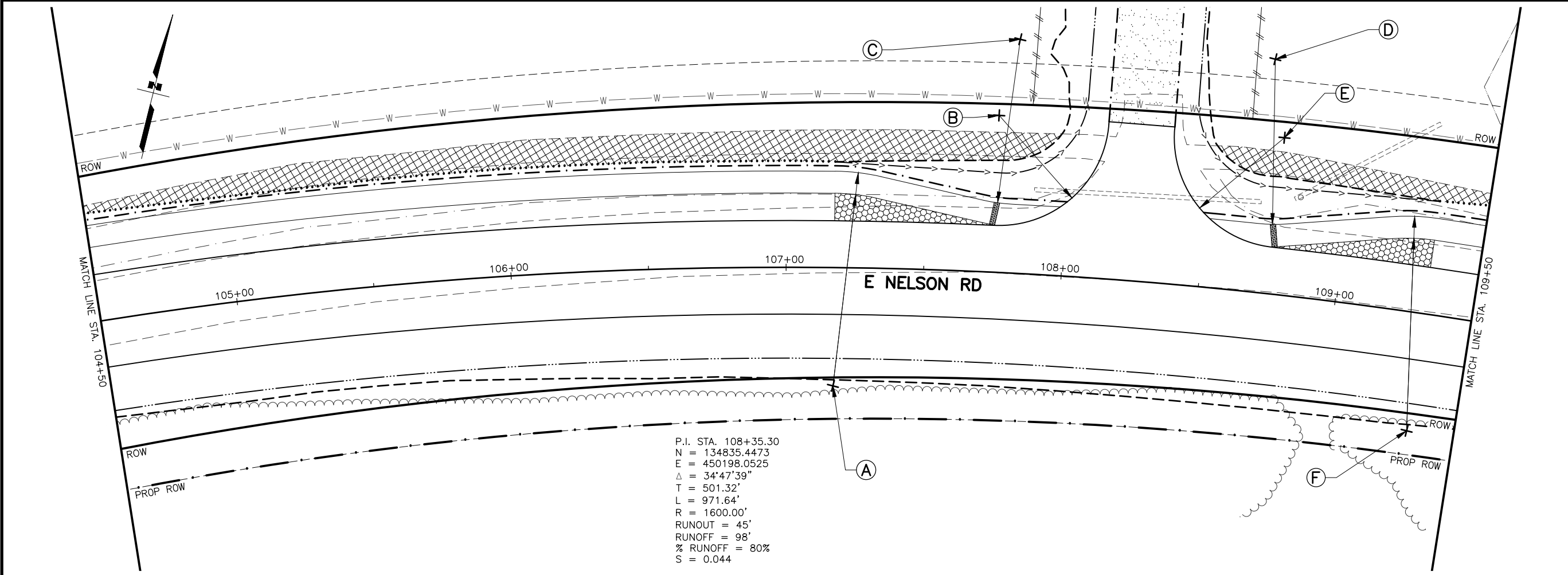
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

PIA REVIEW  
CLAIRE  
REGISTERED PROFESSIONAL ENGINEER

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ANCHORAGE, AK 99502  
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

TRUNK ROAD  
EXTENSION SOUTH, PH III  
PLAN AND PROFILE  
BOP TO  
STA. 104+50



SHEET NO.  
F02

TOTAL SHEETS  
F09

STATE  
ALASKA

YEAR  
2027

PROJECT DESIGNATION  
0001747/  
CFHWY00889

NO.

DATE

NO.

DATE

NO.

DATE

REVISION

REVISION

REVISION

REVISION

REVISION

E FETLOCK DR

E NELSON RD

THIS SHEET

STATE OF ALASKA

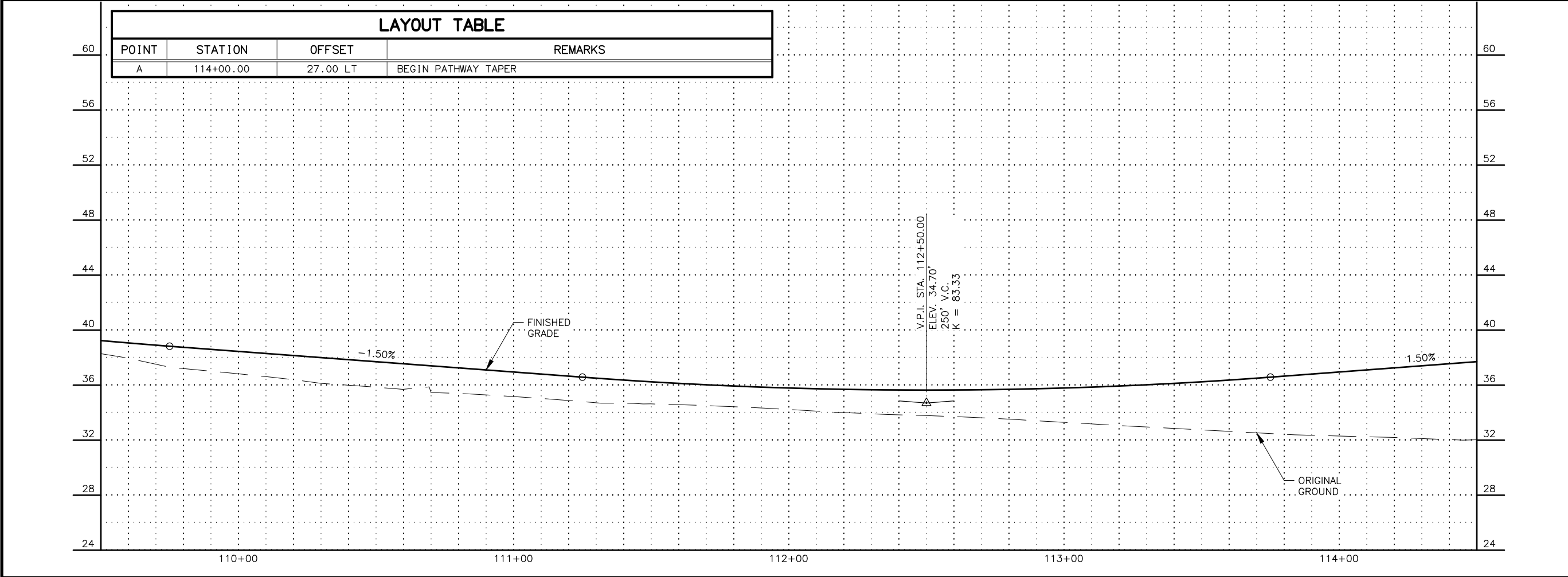
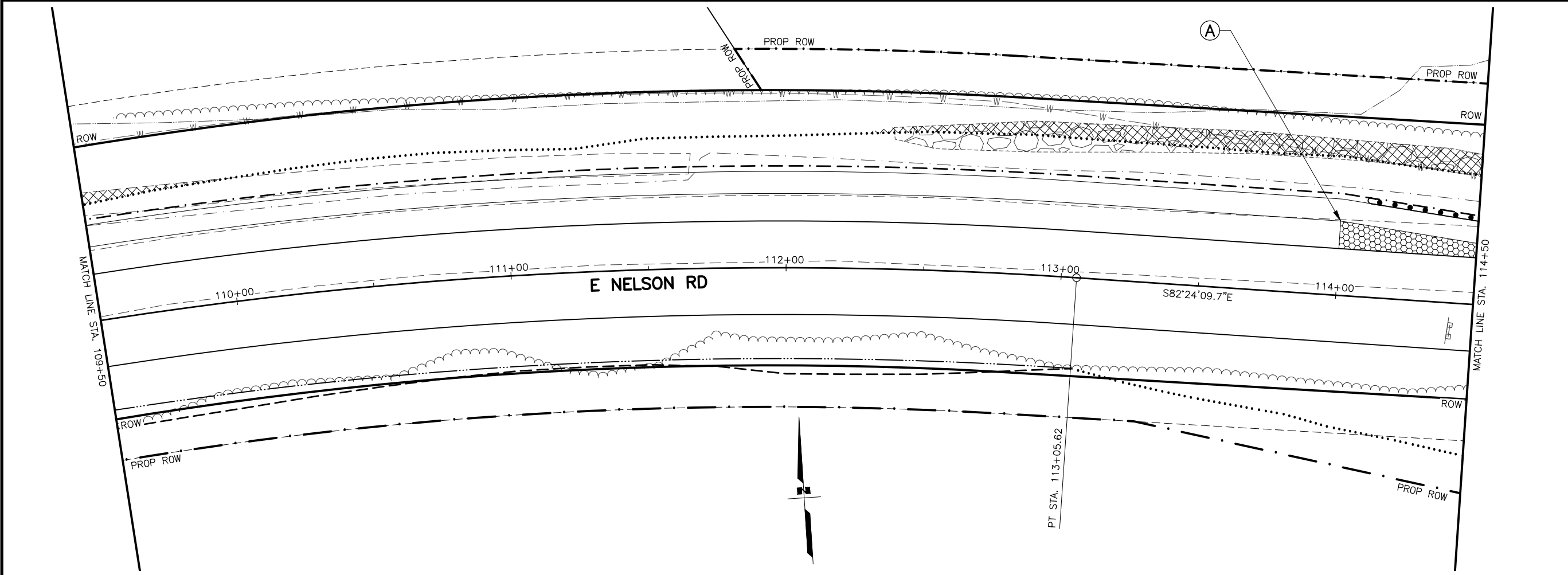
CLARE

PROFESSIONAL ENGINEER

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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

TRUNK ROAD  
EXTENSION SOUTH, PH III  
PLAN AND PROFILE  
STA. 104+50 TO  
STA. 109+50



|                        |              |
|------------------------|--------------|
| SHEET NO.              | TOTAL SHEETS |
| F03                    | F09          |
| STATE                  | YEAR         |
| ALASKA                 | 2027         |
| PROJECT DESIGNATION    |              |
| 0001747/<br>CFHWY00889 |              |
| NO.                    | REVISION     |
| DATE                   |              |
| NO.                    | REVISION     |
| DATE                   |              |
| NO.                    | REVISION     |
| DATE                   |              |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

TRUNK ROAD  
EXTENSION SOUTH, PH III  
PLAN AND PROFILE  
STA. 109+50 TO  
STA. 114+50

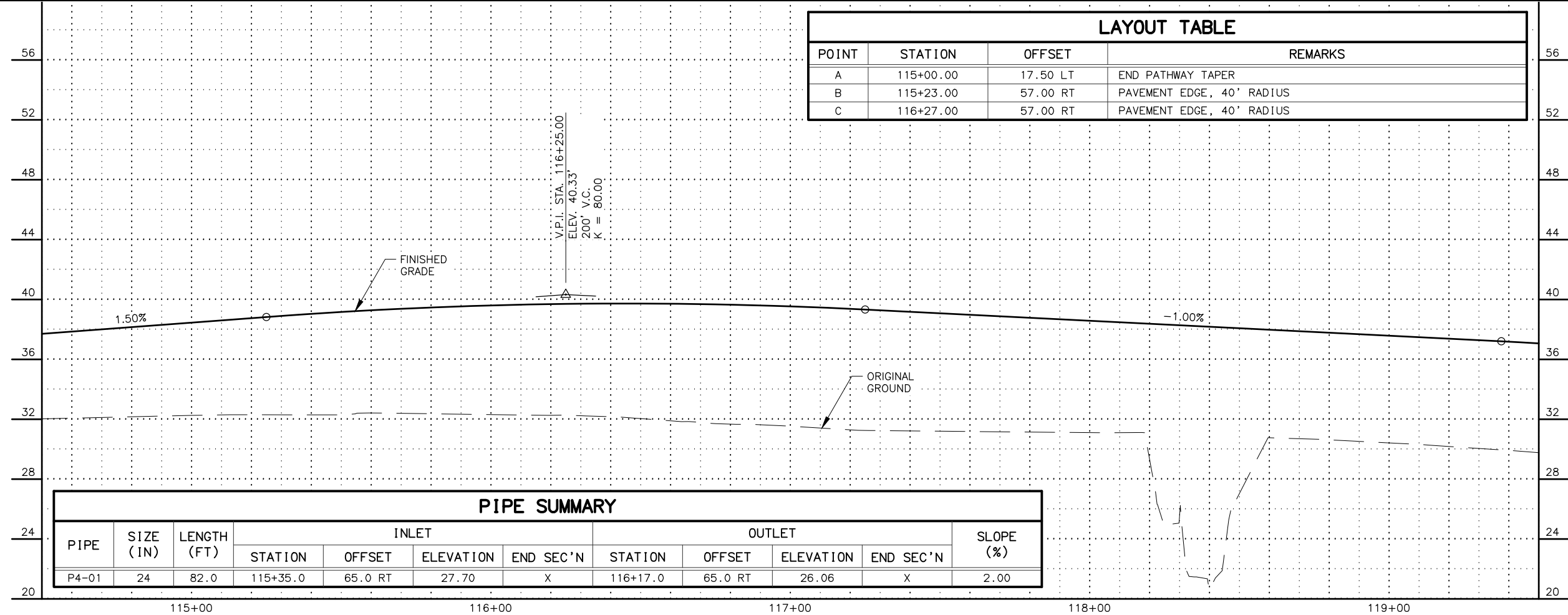
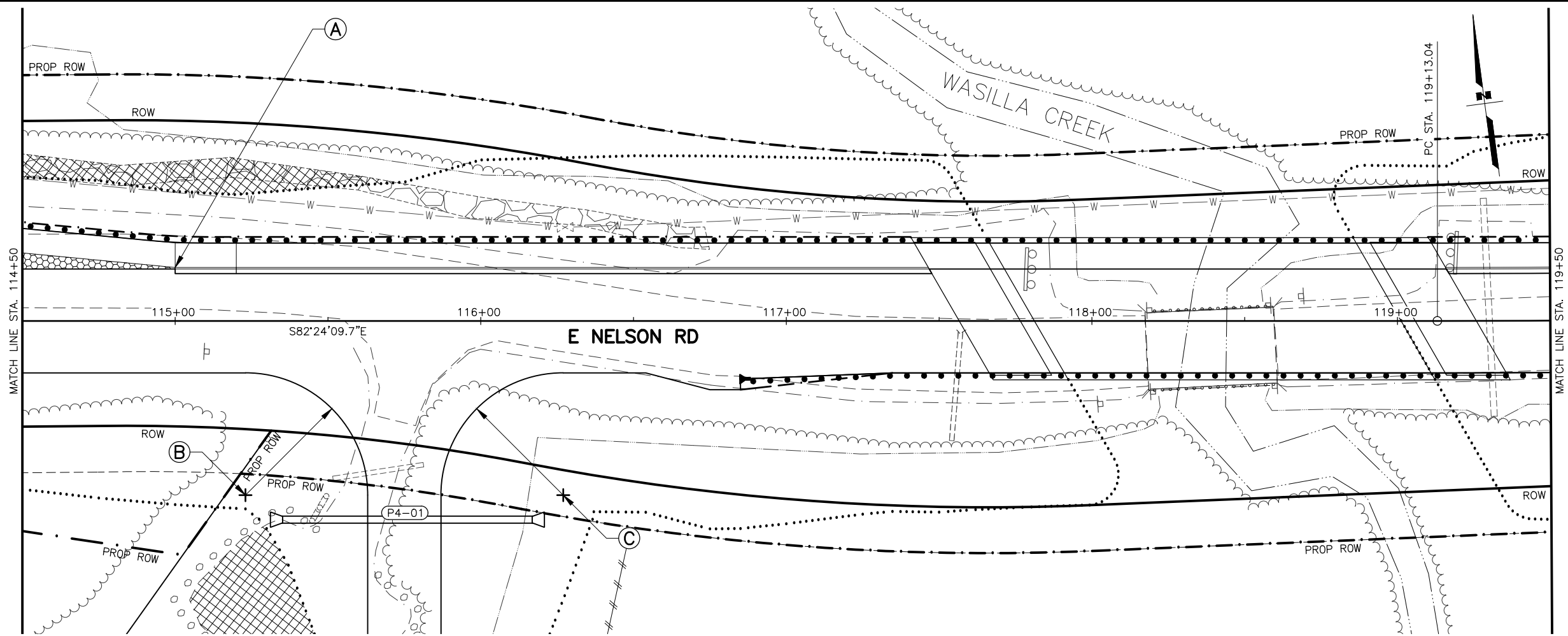
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DATE 7/17/2025 TIME 10:32 AM

SCALE 1" = 20'

DESIGNED BY  
CHECKED BY  
DRAFTED BY

UP  
FILE  
ZDK



|                        |              |
|------------------------|--------------|
| SHEET NO.              | TOTAL SHEETS |
| F04                    | F09          |
| STATE                  | YEAR         |
| ALASKA                 | 2027         |
| PROJECT DESIGNATION    |              |
| 0001747/<br>CFHWY00889 |              |
| NO.                    | REVISION     |
| DATE                   |              |
| NO.                    | REVISION     |
| DATE                   |              |
| NO.                    | REVISION     |
| DATE                   |              |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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TRUNK ROAD  
EXTENSION SOUTH, PH III  
PLAN AND PROFILE  
STA. 114+50 TO  
STA. 119+50

UP  
FILE  
ZDK

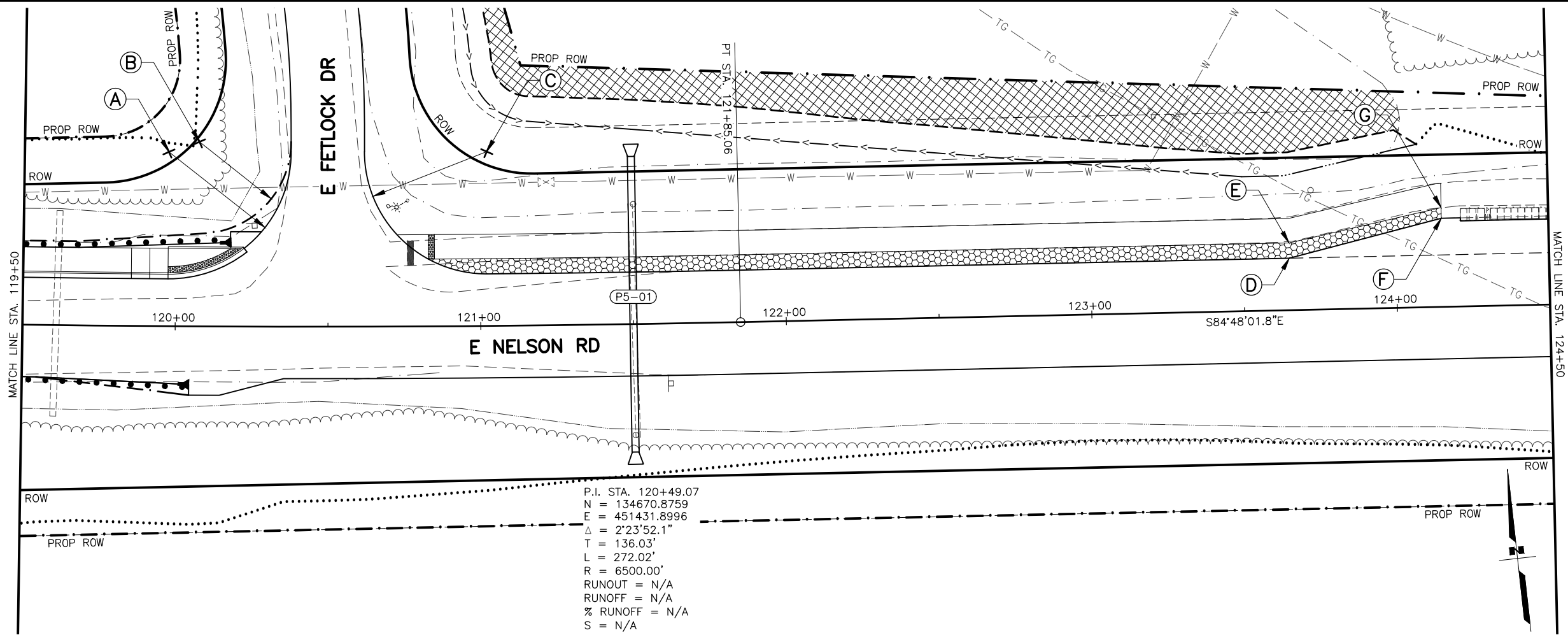
DESIGNED BY  
CHECKED BY  
DRAFTED BY

SCALE  
1" = 20'

DATE  
7/17/2025

TIME  
10:32 AM

DRAWING LOCATION  
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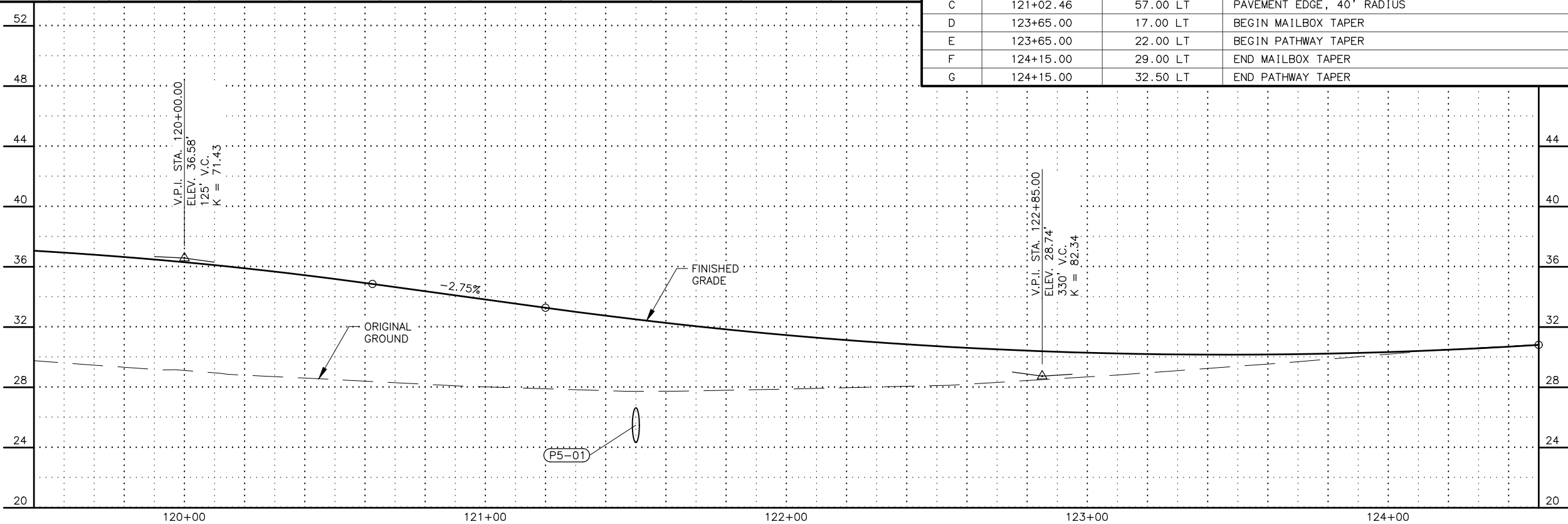
P.I. STA. 120+49.07  
N = 134670.8759  
E = 451431.8996  
Δ = 2'23'52.1"  
T = 136.03'  
L = 272.02'  
R = 6500.00'  
RUNOUT = N/A  
RUNOFF = N/A  
% RUNOFF = N/A  
S = N/A

PIPE SUMMARY

| PIPE  | SIZE (IN) | LENGTH (FT) | INLET    |         |           |           | OUTLET   |         |           |           | SLOPE (%) |
|-------|-----------|-------------|----------|---------|-----------|-----------|----------|---------|-----------|-----------|-----------|
|       |           |             | STATION  | OFFSET  | ELEVATION | END SEC'N | STATION  | OFFSET  | ELEVATION | END SEC'N |           |
| P5-01 | 24        | 97.0        | 121+50.0 | 55.0 LT | 24.90     | X         | 121+50.0 | 42.0 RT | 24.17     | X         | 0.75      |

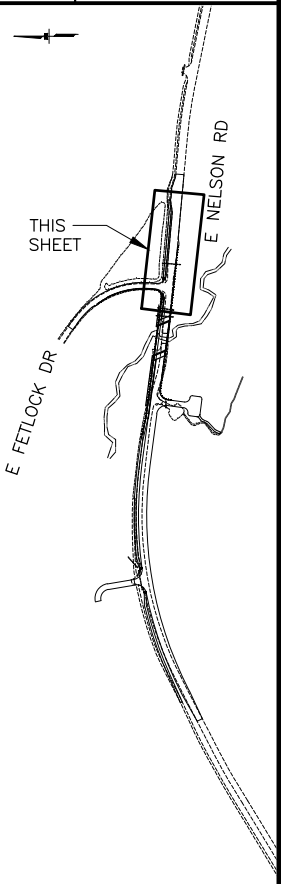
LAYOUT TABLE

| POINT | STATION   | OFFSET   | REMARKS                                 |
|-------|-----------|----------|-----------------------------------------|
| A     | 119+97.54 | 57.00 LT | PAVEMENT EDGE, 40' RADIUS               |
| B     | 120+07.61 | 60.37 LT | G-RAIL WIDENING GRAVEL EDGE, 30' RADIUS |
| C     | 121+02.46 | 57.00 LT | PAVEMENT EDGE, 40' RADIUS               |
| D     | 123+65.00 | 17.00 LT | BEGIN MAILBOX TAPER                     |
| E     | 123+65.00 | 22.00 LT | BEGIN PATHWAY TAPER                     |
| F     | 124+15.00 | 29.00 LT | END MAILBOX TAPER                       |
| G     | 124+15.00 | 32.50 LT | END PATHWAY TAPER                       |



|           |              |
|-----------|--------------|
| SHEET NO. | TOTAL SHEETS |
| F05       | F09          |
| STATE     | YEAR         |
| ALASKA    | 2027         |

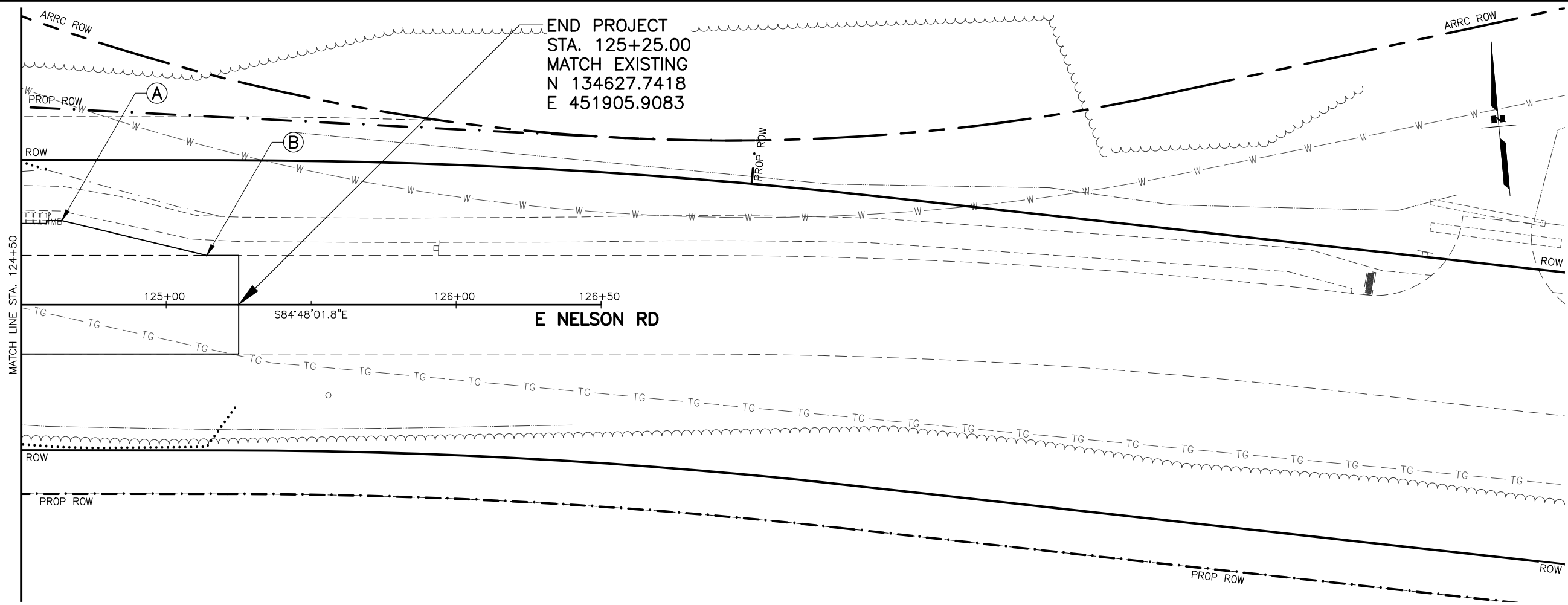
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| PROJECT DESIGNATION    |          |
| 0001747/<br>CFHWY00889 |          |
| NO.                    | REVISION |
| DATE                   |          |
| NO.                    | REVISION |
| DATE                   |          |
| NO.                    | REVISION |
| DATE                   |          |



STATE OF ALASKA  
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

TRUNK ROAD  
EXTENSION SOUTH, PH III  
PLAN AND PROFILE  
STA. 119+50 TO  
STA. 124+50



END PROJECT  
STA. 125+25.00  
MATCH EXISTING  
N 134627.7418  
E 451905.9083

LAYOUT TABLE

| POINT | STATION   | OFFSET   | REMARKS             |
|-------|-----------|----------|---------------------|
| A     | 124+64.00 | 29.00 LT | BEGIN MAILBOX TAPER |
| B     | 125+14.00 | 17.00 LT | END MAILBOX TAPER   |

V.P.I. STA. 124+60.00  
ELEV. 30.94'  
MATCH EXISTING

1.26%

FINISHED  
GRADE

ORIGINAL  
GROUND

SHEET NO.  
**F06**

TOTAL SHEETS  
**F09**

STATE  
**ALASKA**

YEAR  
**2027**

PROJECT DESIGNATION  
**0001747/  
CFHWY00889**

NO.  
DATE

NO.  
DATE

NO.  
DATE

NO.  
DATE

NO.  
DATE

NO.  
DATE

NO.  
DATE

NO.  
DATE

THIS SHEET

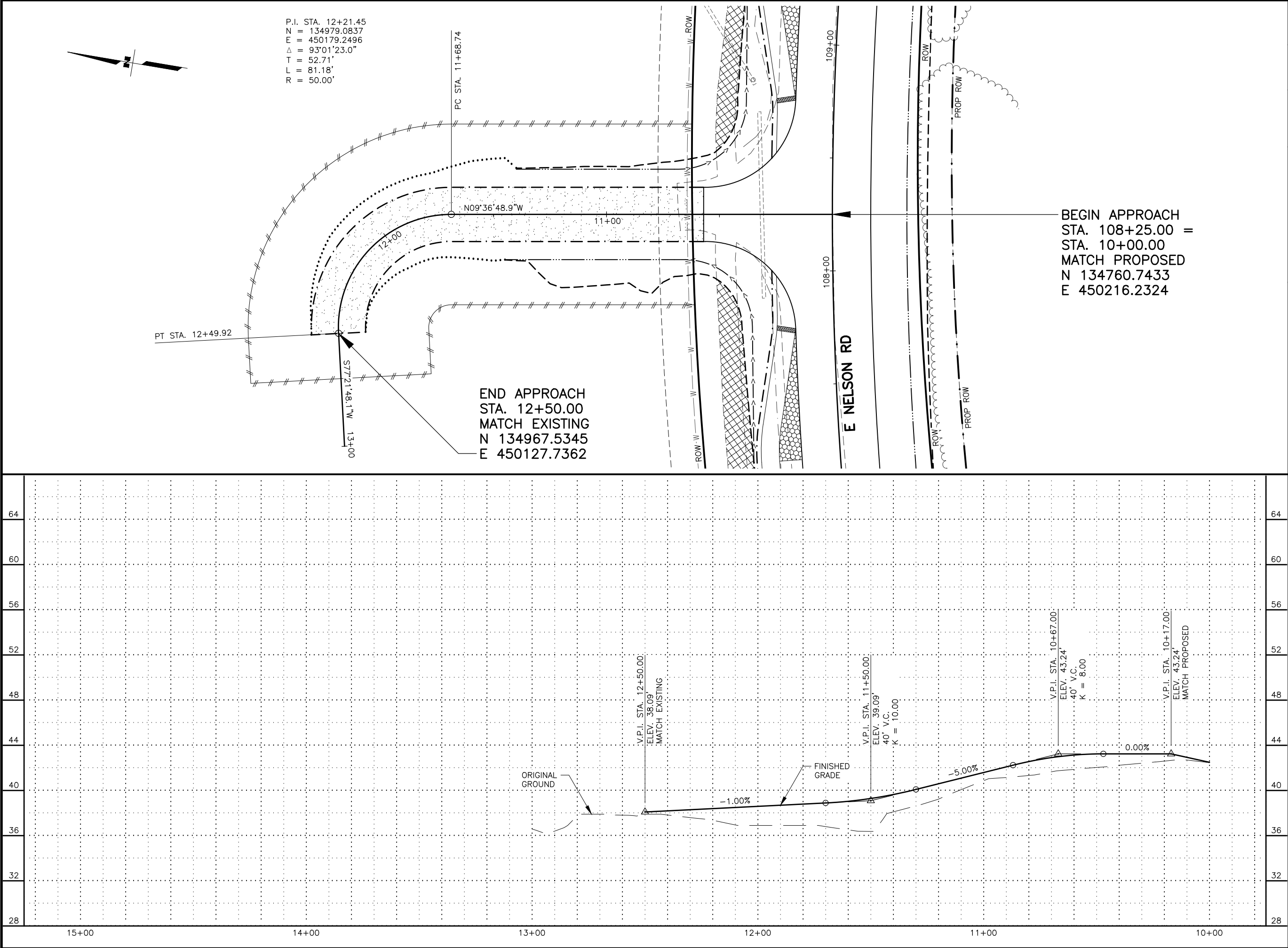
E NELSON RD

E FETLOCK DR

STATE OF ALASKA  
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ANCHORAGE, AK 99502  
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PIII REVIEW  
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
TRUNK ROAD  
EXTENSION SOUTH, PH III  
PLAN AND PROFILE  
STA. 124+50 TO  
EOP

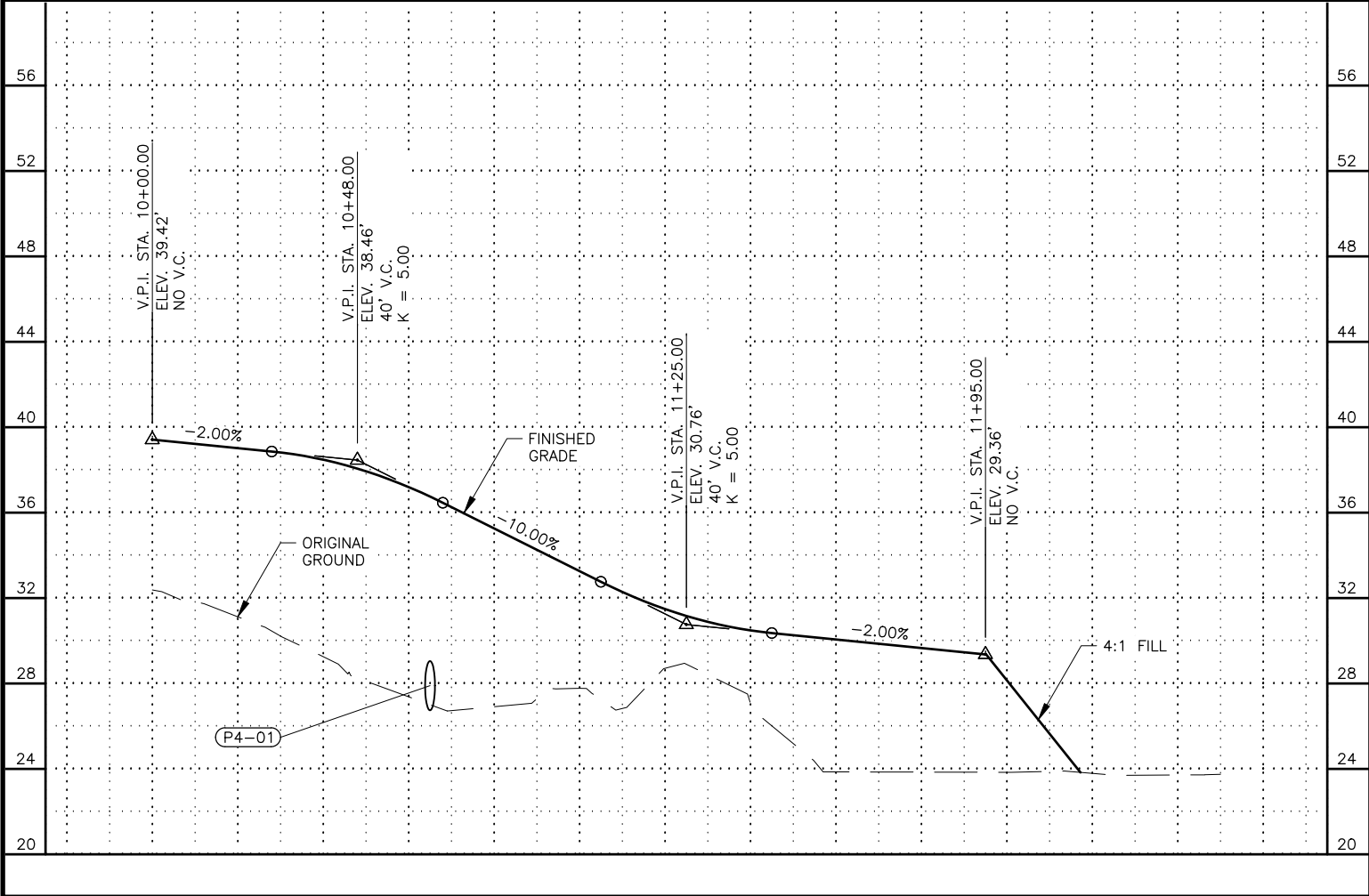
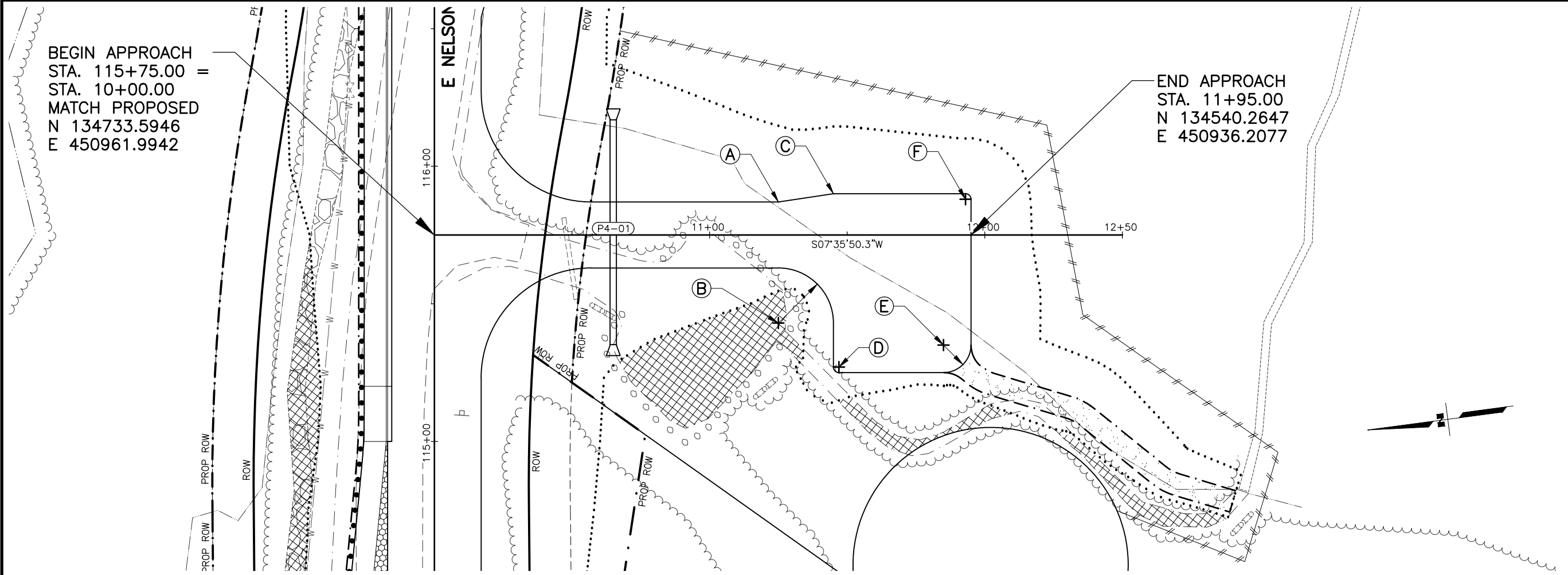


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|------------------------|--------------|
| SHEET NO.              | TOTAL SHEETS |
| F07                    | F09          |
| STATE                  | YEAR         |
| ALASKA                 | 2027         |
| PROJECT DESIGNATION    |              |
| 0001747/<br>CFHWY00889 |              |
| NO.                    | REVISION     |
| DATE                   |              |
| NO.                    | REVISION     |
| DATE                   |              |
| NO.                    | REVISION     |
| DATE                   |              |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

TRUNK ROAD  
EXTENSION SOUTH, PH III

PLAN AND PROFILE  
STA. 108+25 LT



| LAYOUT TABLE |          |          |                           |
|--------------|----------|----------|---------------------------|
| POINT        | STATION  | OFFSET   | REMARKS                   |
| A            | 11+25.00 | 12.00 LT | BEGIN TAPER               |
| B            | 11+25.00 | 32.00 RT | PAVEMENT EDGE, 20' RADIUS |
| C            | 11+45.00 | 15.00 LT | END TAPER                 |
| D            | 11+47.00 | 48.00 RT | PAVEMENT EDGE, 2' RADIUS  |
| E            | 11+85.00 | 40.00 RT | PAVEMENT EDGE, 10' RADIUS |
| F            | 11+93.00 | 13.00 LT | PAVEMENT EDGE, 2' RADIUS  |

SHEET NO.F08TOTAL SHEETSF09

STATEALASKAYEAR2027

PROJECT DESIGNATION0001747/  
CFHWY00889

NO.

DATE

NO.

DATE

NO.

DATE

REVISION

REVISION

REVISION

STATE OF ALASKA  
DOT&PF  
4111 AVIATION AVENUE  
ANCHORAGE, AK 99502  
(907) 269-0590

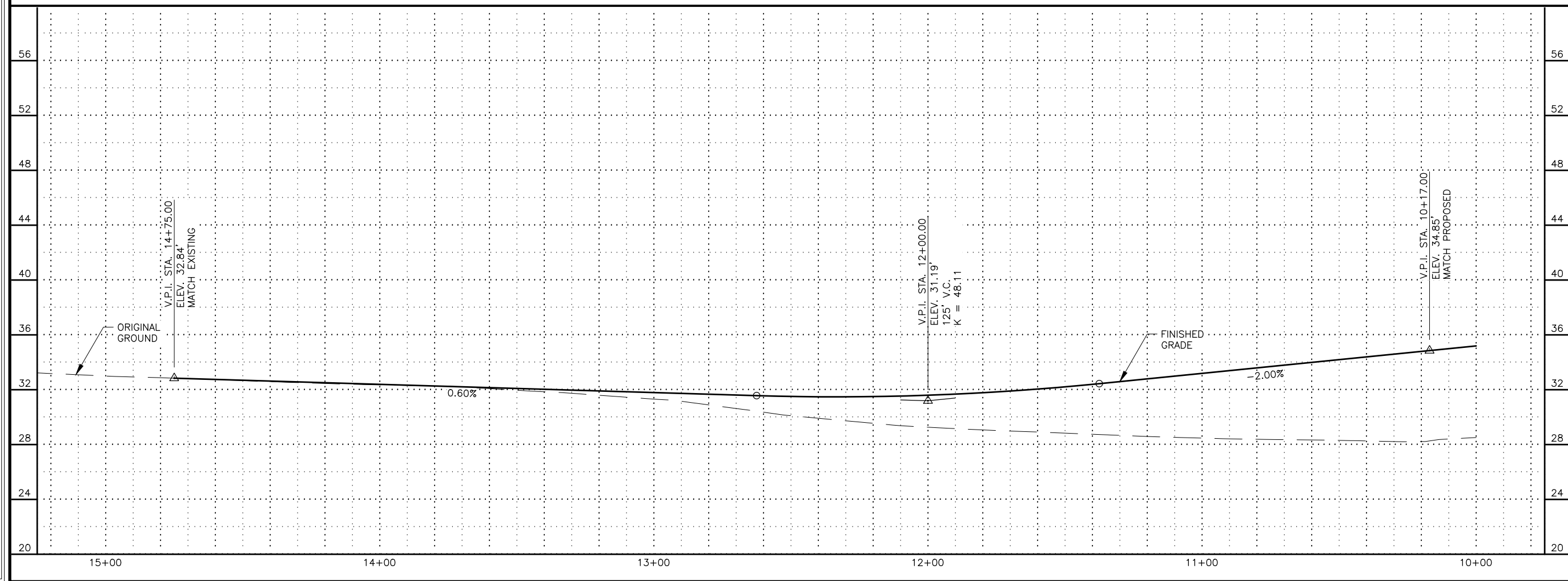
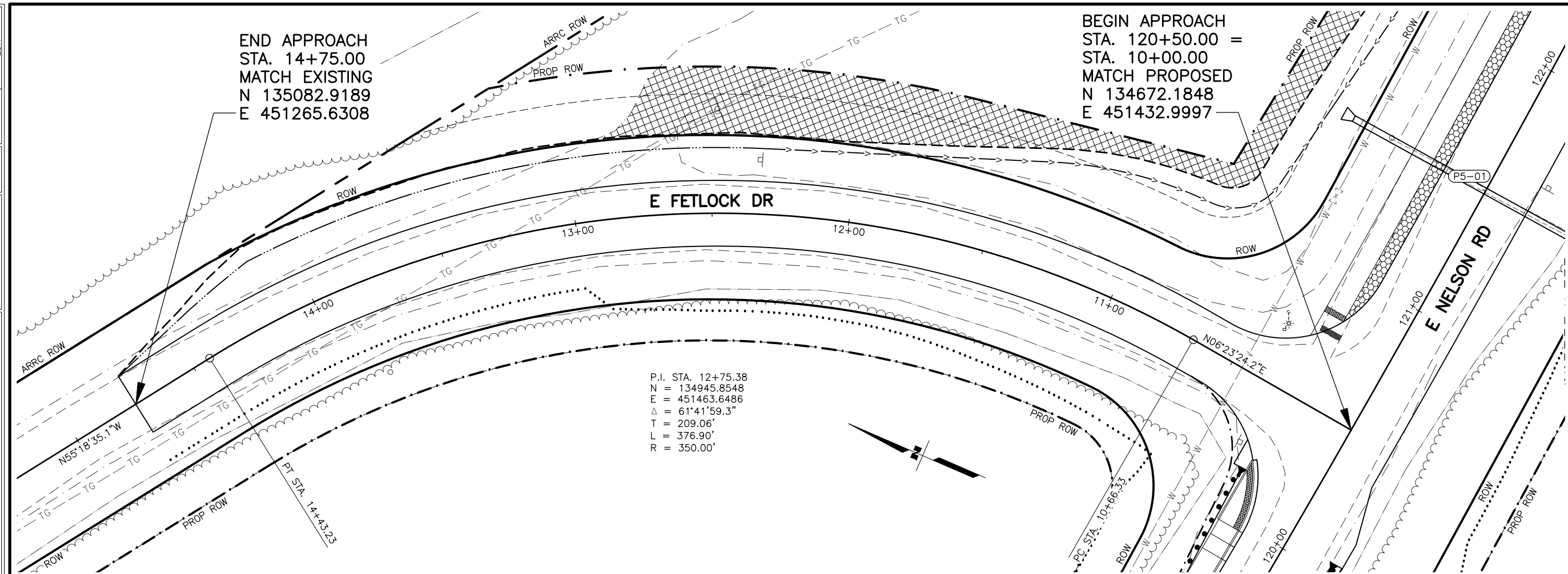
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

TRUNK ROAD  
EXTENSION SOUTH, PH III

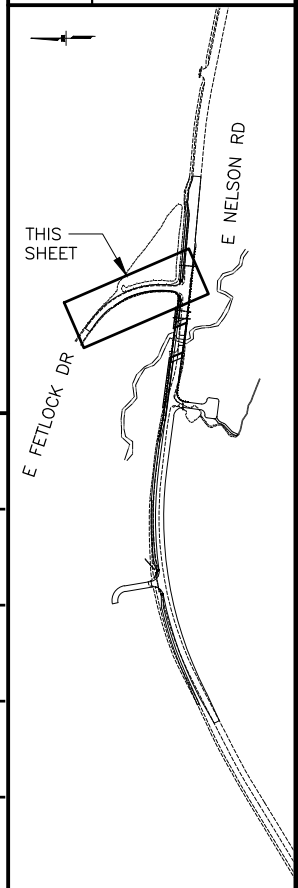
PLAN AND PROFILE  
STA. 115+75 RT

|           |          |          |             |     |
|-----------|----------|----------|-------------|-----|
| DATE      | TIME     | SCALE    | DESIGNED BY | JP  |
| 7/17/2025 | 10:32 AM | 1" = 20' | CHECKED BY  | CLE |
|           |          |          | DRAFTED BY  | ZDK |

|                                                                                   |  |
|-----------------------------------------------------------------------------------|--|
| DRAWING LOCATION                                                                  |  |
| w:\PROJECTS\TRUNK RD EXT SOUTH PHILL-- CFHWY00889\CI\3D\PLANSET\00889_F01_PNP.DWG |  |



|                        |          |                 |  |
|------------------------|----------|-----------------|--|
| SHEET<br>NO.           |          | TOTAL<br>SHEETS |  |
| F09                    |          | F09             |  |
| STATE                  |          | YEAR            |  |
| ALASKA                 |          | 2027            |  |
| PROJECT DESIGNATION    |          |                 |  |
| 0001747/<br>CFHWY00889 |          |                 |  |
| NO.                    | REVISION |                 |  |
| DATE                   |          |                 |  |
| NO.                    |          |                 |  |
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| DATE                   |          |                 |  |



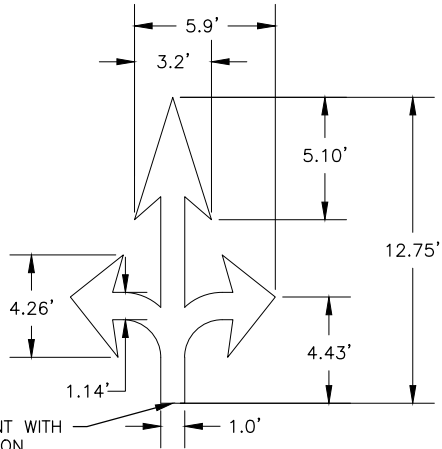
STATE OF ALASKA DOT&PF  
4111 AVIATION AVENUE  
ANCHORAGE, AK 99502  
(907) 269-0590

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

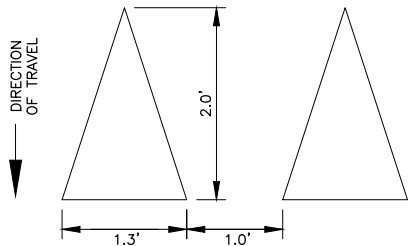
TRUNK ROAD  
EXTENSION SOUTH, PH III

PLAN AND PROFILE  
STA. 120+50 LT  
E FETLOCK DR

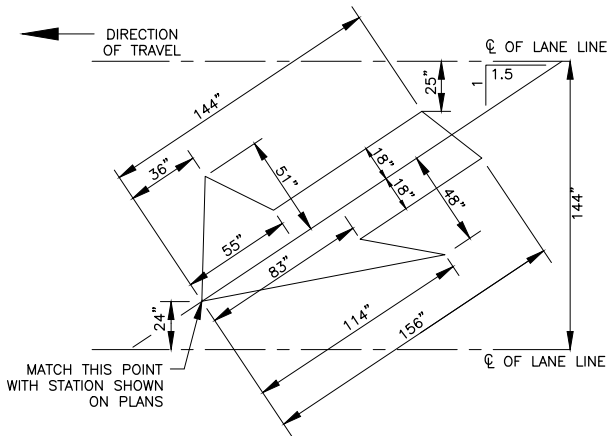
| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | H01       | H09          |



LEFT/THRU/RIGHT ARROW DETAIL



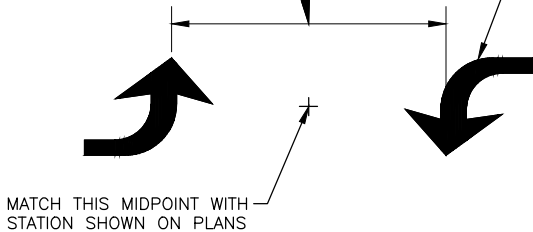
YIELD PAVEMENT MARKINGS DETAIL



LANE DROP ARROW DETAIL

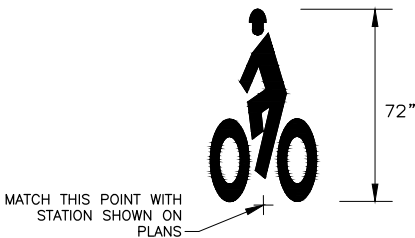
DIMENSION SEE OPTIONS TABLE

STANDARD LEFT TURN ARROWS,  
SEE ALASKA STANDARD PLAN  
T-22 FOR LAYOUT TEMPLATE.



TWO WAY LEFT TURN ARROW DETAIL

| OPTIONS            |           |
|--------------------|-----------|
| POSTED SPEED       | DIMENSION |
| 35 MPH AND LESS    | 8 FEET    |
| 40 MPH-45 MPH      | 12 FEET   |
| 50 MPH AND GREATER | 16 FEET   |



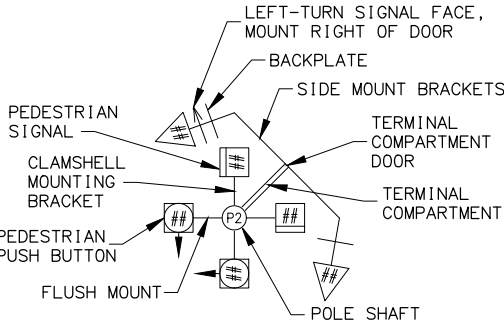
HELMETED MUTCD BIKE SYMBOL  
(EXCLUDE ARROW UNLESS SHOWN IN PLANS)

**SIGNING & STRIPING NOTES:**

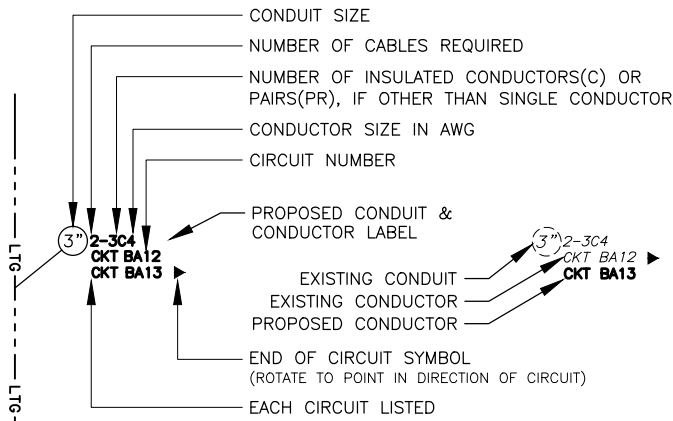
- ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.  
A. PT MEANS A PERFORATED STEEL TUBE.  
B. T MEANS A SQUARE STEEL TUBE.  
C. P MEANS A ROUND STEEL PIPE.  
D. W MEANS A WIDE FLANGE BEAM.  
E. POPL MEANS A POLE PLATE INSTALLED PER ITS ALASKA STANDARD PLAN S-23.
- FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
- FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
- FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON ALASKA STANDARD PLAN S-30. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12 INCHES.
- FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
- ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
- FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM SIX FEET CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM EIGHT FEET CENTERS.
- SELECTIVE AND HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IN ACCORDANCE WITH SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
- FOR ALL FINAL PAVEMENT MARKINGS USE METHYLMETHACRYLATE MATERIALS. LONGITUDINAL, TRANSVERSE AND SYMBOL MARKINGS SHALL BE INLAID AND GORE STRIPES SHALL BE SURFACE APPLIED AS SPECIFIED IN SECTION 670 OF THE SPECIFICATIONS.
- DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT OR FACE OF CURB WHEN PRESENT.
- IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
- WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IN ACCORDANCE WITH SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.

**ABBREVIATIONS**

|       |                                           |           |                                 |
|-------|-------------------------------------------|-----------|---------------------------------|
| AWG   | AMERICAN WIRE GAUGE                       | NB        | NORTH BOUND                     |
| CAM   | CAMERA                                    | OMNI      | OMNI DIRECTIONAL ANTENNA        |
| EB    | EAST BOUND                                | P#        | TRAFFIC SIGNAL POLE #           |
| GND   | GROUND                                    | PE        | PHOTOELECTRIC CELL              |
| HDPE  | HIGH DENSITY POLYETHYLENE CONDUIT         | PED B ##  | PEDESTRIAN PUSH BUTTON #        |
| HEAD  | VEHICULAR SIGNAL HEAD                     | PED1      | PEDESTRIAN SIGNAL HEAD          |
| SIG   | SIGNAL                                    | PRE #     | PREEMPTION #                    |
| I/C   | INTERCONNECT                              | PRE CON # | PREEMPTION CONFIRMATION LIGHT # |
| INTX  | INTERSECTION                              | RAD       | RADAR                           |
| INTXL | INTERSECTION LIGHTING                     | RMC       | RIGID METAL CONDUIT             |
| LC    | LOAD CENTER                               | SB        | SOUTH BOUND                     |
| LFNC  | LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT  | TC        | TRAFFIC CONTROLLER              |
| LTG   | LIGHTING                                  | WB        | WEST BOUND                      |
| MUTCD | MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES | YAGI      | DIRECTIONAL ANTENNA             |



**POLE SHAFT LEGEND**



**CIRCUIT LABELING LEGEND**

**CALL BEFORE YOU DIG!**

CONTRACTOR SHALL CALL A MINIMUM OF 3 DAYS IN ADVANCE OF CONSTRUCTION

ALASKA DIGILINE....907-278-3121 OR 800-478-3121

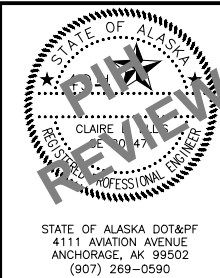
CALL OR GO TO [WWW.AKONECALL.COM/STATEWIDE.HTM](http://WWW.AKONECALL.COM/STATEWIDE.HTM)  
FOR MEMBER LIST OF WHO WILL BE NOTIFIED

**FOUNDATIONS NOTES:**

- STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
- LOCATE J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS.
- INSTALL LOAD CENTER AND TRAFFIC CONTROLLER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.
- INSTALL ANCHOR BOLTS IN CAST FOUNDATIONS TO BE WITHIN 1:48 OF PLUMB.

**SIGNAL SYSTEM NOTES:**

- FURNISH THE SIGNAL AND LUMINAIRE MASTARM LENGTHS AND DIMENSIONS SPECIFIED ON THE POLE ELEVATIONS.
- INSTALL DEVICES SUCH THAT THE DIMENSIONS SHOWN TO THE BOTTOM OF THE DEVICES ON THE POLE ELEVATIONS ARE MINIMUMS. VERTICAL DIMENSIONS TO SIGNAL HEADS ARE TO BOTTOM OF THE BACK PLATE.
- INSTALL MAST ARMS PERPENDICULAR TO THE ROADWAY CENTERLINE. ACCEPTABLE VARIANCE IS +/- 1-DEGREE.
- SALVAGE SIGNAL POLE ASSEMBLIES, SIGNS, SIGNAL FACES, AND LUMINAIRES AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING. COMPONENTS DAMAGED WHILE IN THE CONTRACTOR'S CUSTODY MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE. REMOVE AND DISPOSE OF FOUNDATIONS.
- SALVAGE EXISTING CONTROLLER CABINET AFTER NEW CONTROLLER CABINET IS IN SERVICE AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING.
- REMOVE ABANDONED OR UNUSED TRAFFIC JUNCTION BOXES UNLESS OTHERWISE NOTED.
- NEW SIGNAL HEADS THAT ARE MOUNTED BUT NOT IN OPERATION SHALL BE COVERED WITH A COMMERCIALY AVAILABLE SIGNAL-SHIRT. EACH SIGNAL SHIRT SHALL FEATURE ELASTICIZED OPENINGS THAT FIT OVER THE VISORS AND AT LEAST TWO STRAPS TO SECURE IT TO THE SIGNAL. PROVIDE SHIRTS WITH A LEGEND THAT READS "OUT OF SERVICE" AND A CENTER SECTION THAT ALLOWS AN OPERATOR TO SEE THE INDICATIONS DURING SYSTEM TESTS.
- SIGNAL HEADS ARE TO BE LOCATED PER FIGURE 4D-100, TYPICAL SIGNAL HEAD LOCATIONS, PER THE ALASKA TRAFFIC MANUAL. ACCEPTABLE VARIANCE IS +/- 1-FOOT.
- AIM SIGNALS PER TABLE 660-2, THROUGH-SIGNAL AIMING POINT, OF THE SPECIAL PROVISIONS. SIGNALS SHALL ALSO BE AIMED SO AS NOT TO BE VISIBLE FROM SIDE STREET TRAFFIC. ACCEPTABLE VARIANCE IS +/- 5 DEGREES.
- EXISTING CIRCUITS LISTED ON THE LOAD CENTER SUMMARY AND PLAN SHEETS WERE OBTAINED FROM AS-BUILT INFORMATION AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO WORK INVOLVING THOSE CIRCUITS.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, INCLUDING ARROW BOARD DEVICE(S), FOR OVERHEAD INSPECTION AND LOCATE WORK PERFORMED BY MOA SIGNAL ELECTRONICS. CONTRACTOR SHALL BE ON-SITE AT COMPLETION OF LOCATES TO REVIEW LAYOUT AND MAKE STATIONING MEASUREMENTS FOR CONDUIT LOCATIONS.

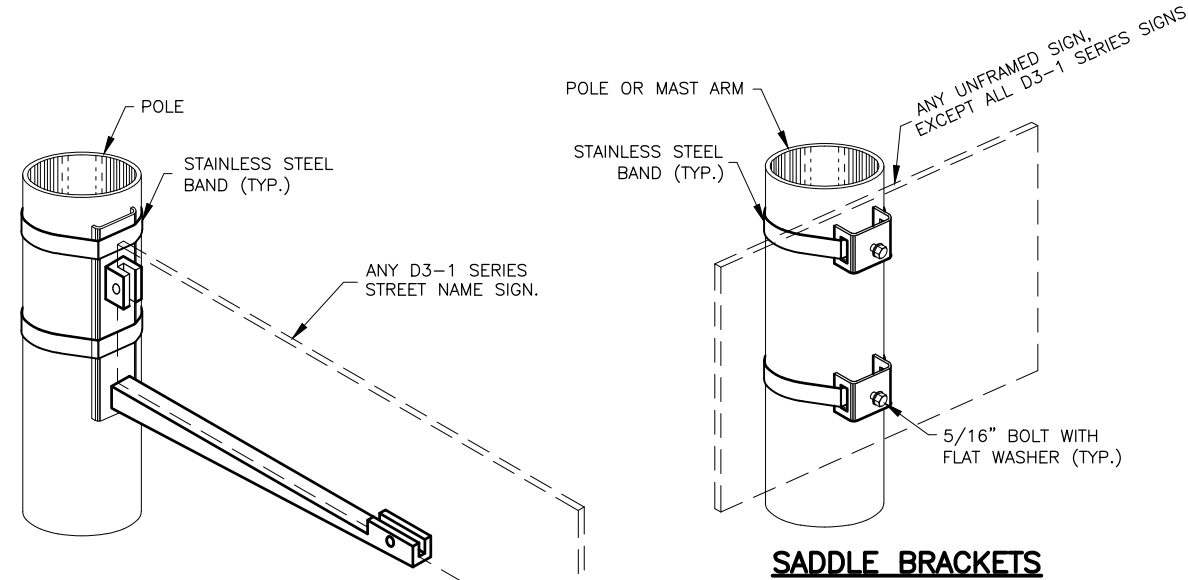


STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

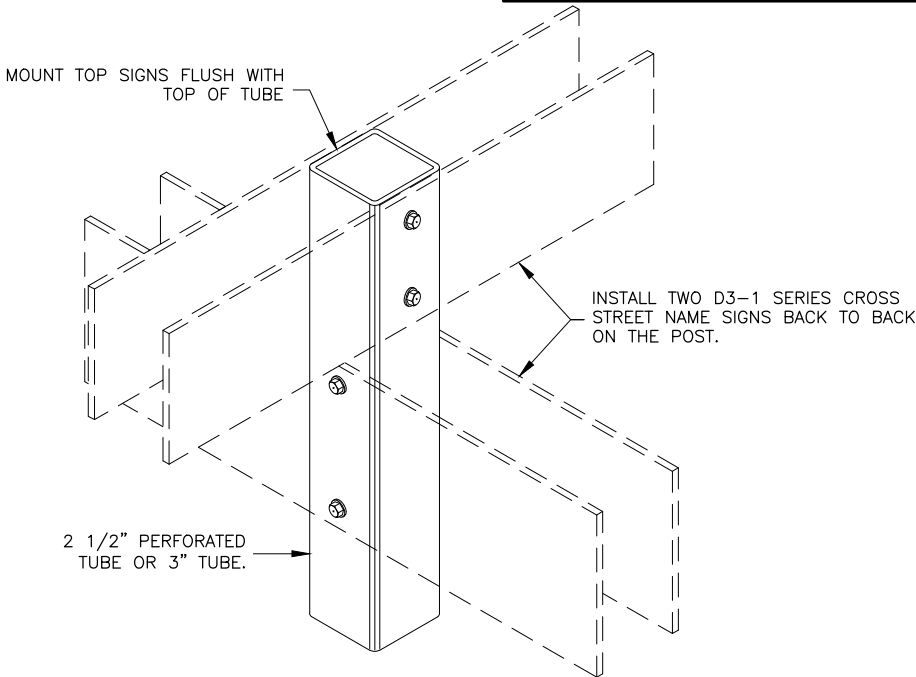
TRUNK ROAD EXTENSION  
SOUTH, PHASE III

TRAFFIC LEGEND AND NOTES

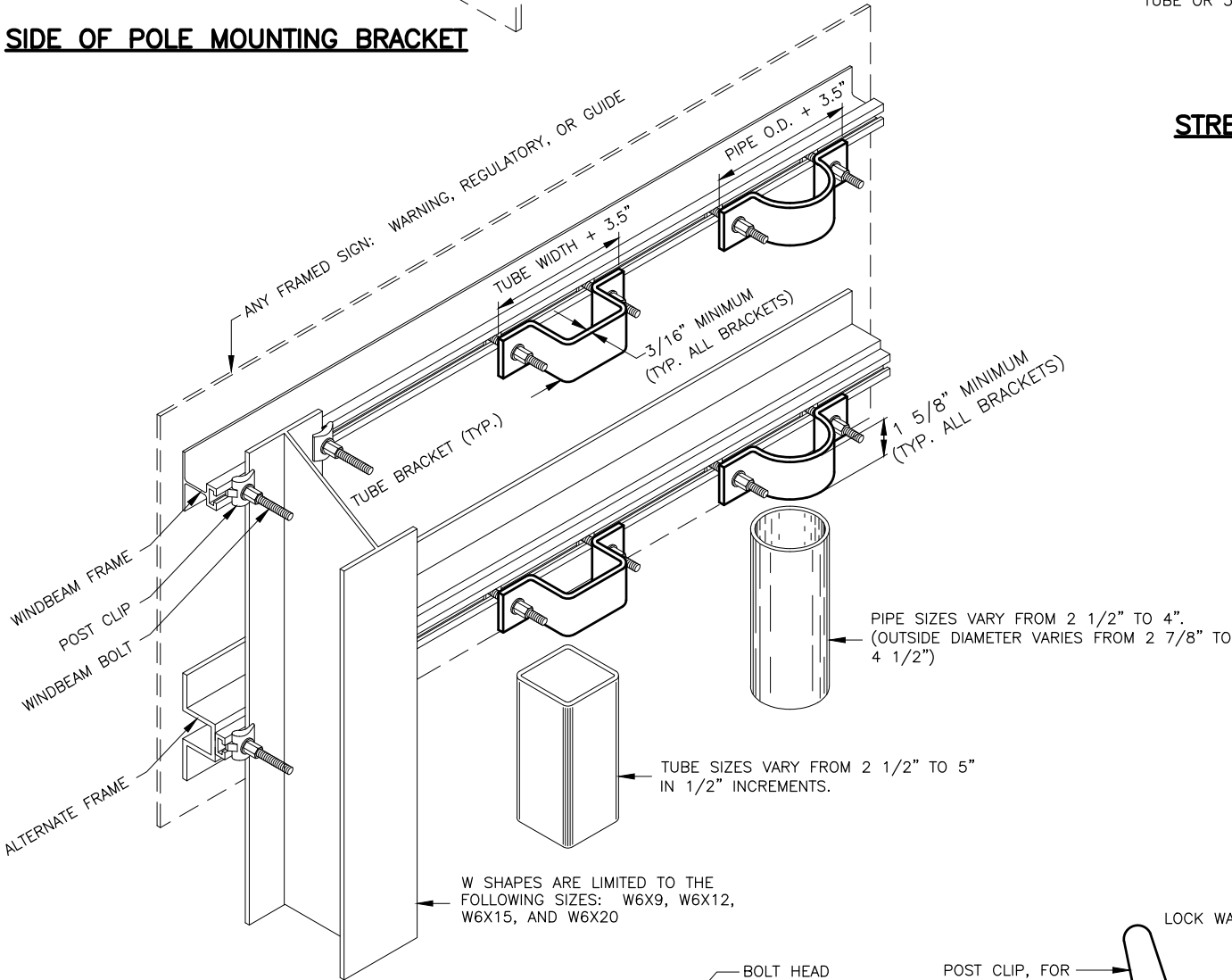
| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | H02       | H09          |



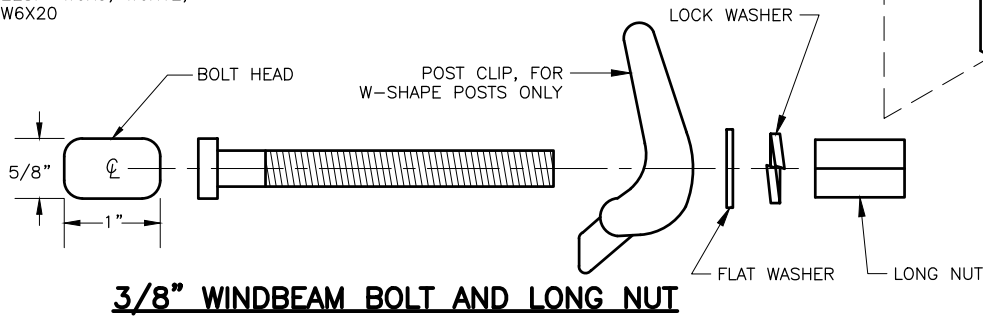
SIDE OF POLE MOUNTING BRACKET



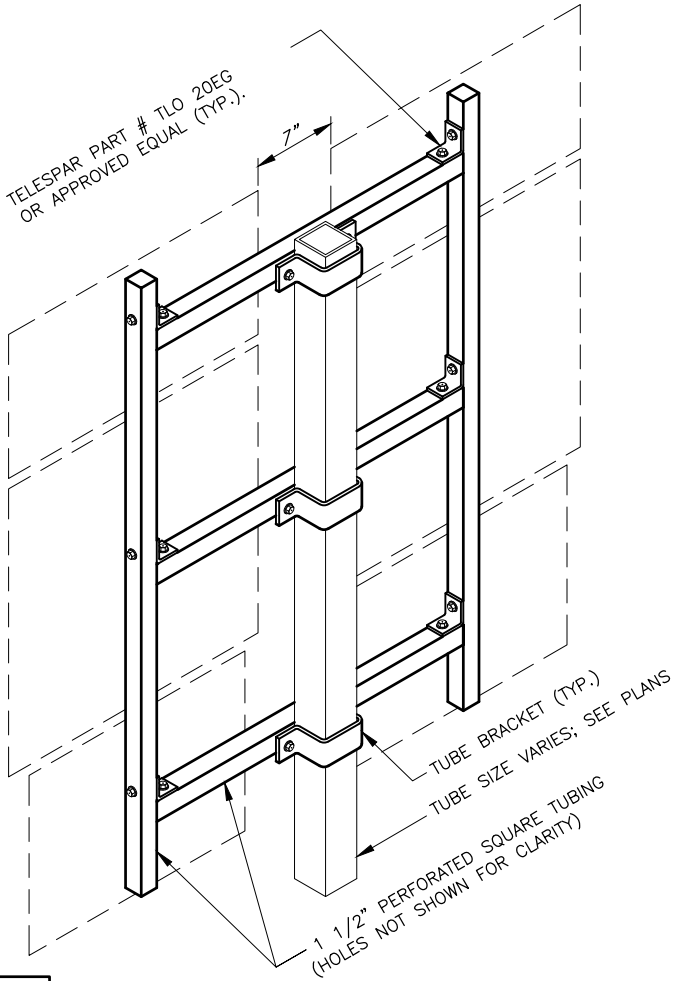
STREET NAME SIGN INSTALLATION



FRAMED SIGN ATTACHMENT BRACKETS



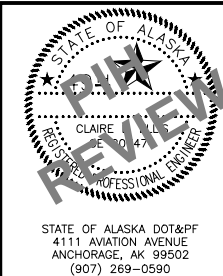
3/8\"/>



ROUTE MARKER TREE

- NOTES:
- EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
  - ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.
  - BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
  - ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
  - ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
  - THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
  - ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
  - ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO ALASKA STANDARD PLAN S-23.
  - FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
  - INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
  - INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
  - THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
  - INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

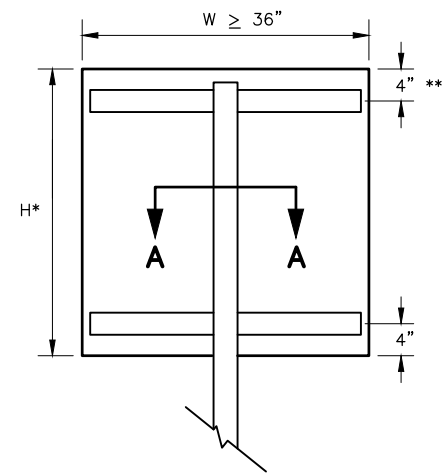
| FASTENER SPECIFICATION TABLE |                   |           |                 |
|------------------------------|-------------------|-----------|-----------------|
| FASTENERS                    | ALUMINUM          | STEEL     | STAINLESS STEEL |
| BOLTS                        | ASTM F468 2024-T4 | ASTM A307 | ASTM F593       |
| NUTS                         | ASTM F467 2024-T4 | ASTM A563 | ASTM F594       |
| WASHERS                      | ANSI B18.22.1     | ASTM F844 | ANSI B18.22.1   |
| POST CLIPS                   | ASTM B179 356-T6  | N/A       | N/A             |



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**TRUNK ROAD EXTENSION  
SOUTH, PHASE III**

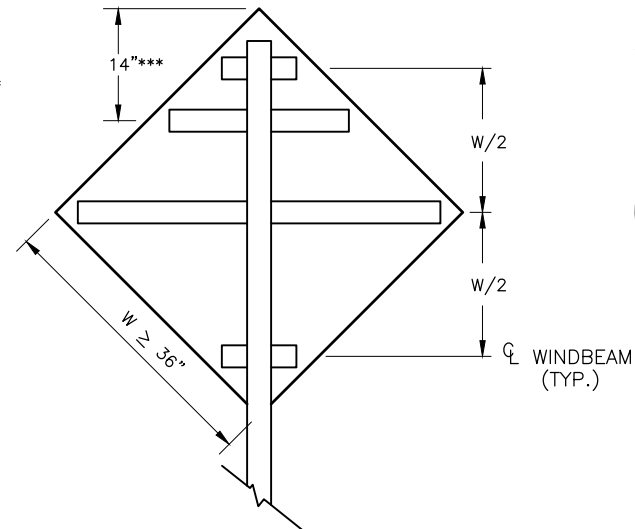
SIGN ATTACHMENT DETAILS

| NO. | DATE | REVISION | STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|-----|------|----------|--------|---------------------|------|-----------|--------------|
|     |      |          | ALASKA | 0001747/CFHWY00889  | 2027 | H03       | H09          |

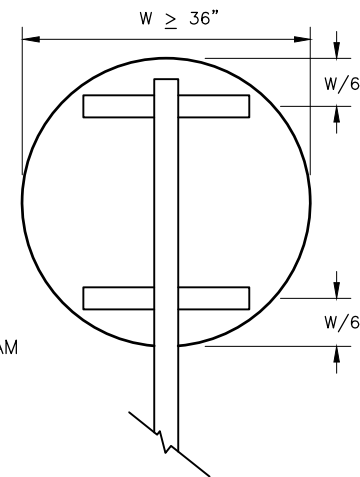


RECTANGLES AND TRAPEZOIDS

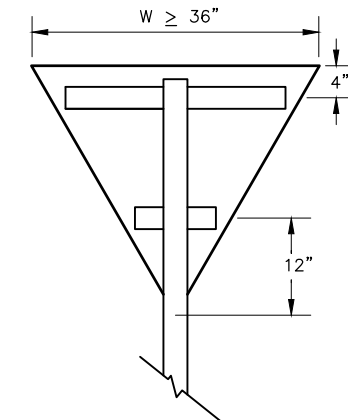
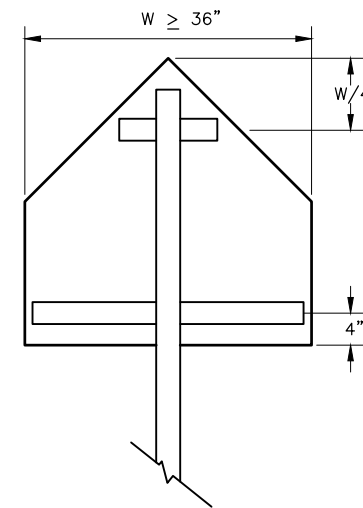
- \* WHEN H > 42 INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.
- \*\* FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4".



\*\*\* FOR WARNING SIGNS MOUNTED ON FLASHING  
BEACON POSTS, USE THE 14" OFFSET.  
OTHERWISE, USE W/2.

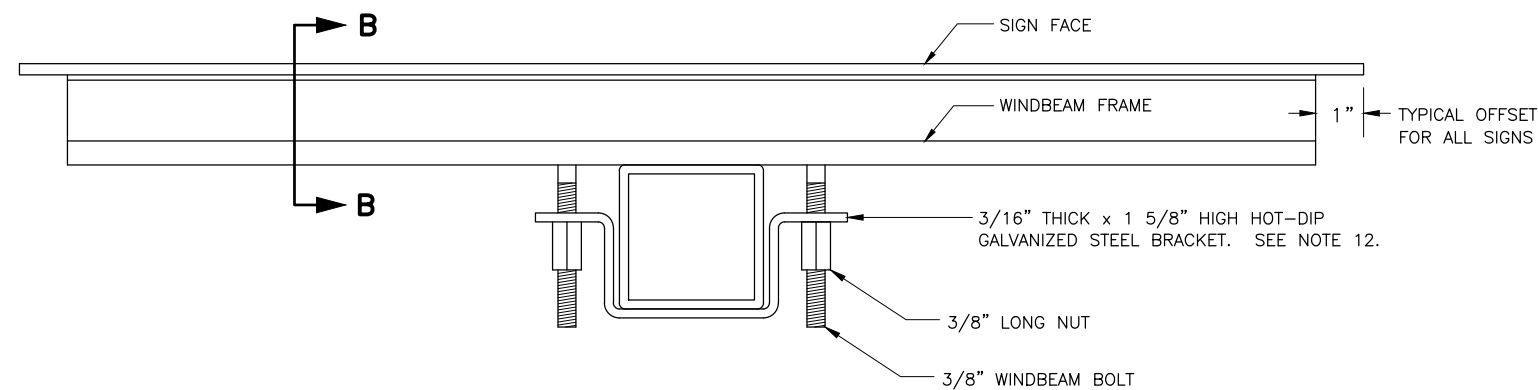


## ROUNDS AND OCTAGONS

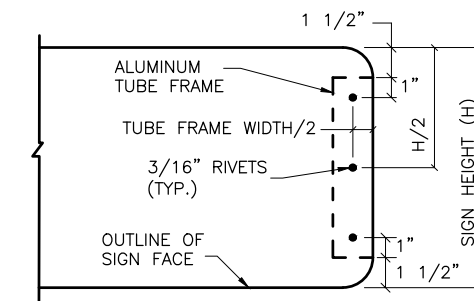


### WINDBEAM LOCATIONS FOR EACH SIGN SHAPE

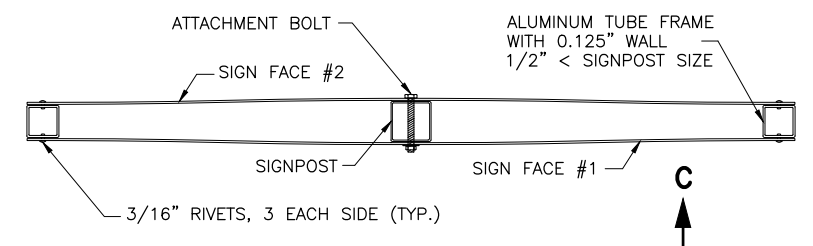
ELEVATION VIEW



SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

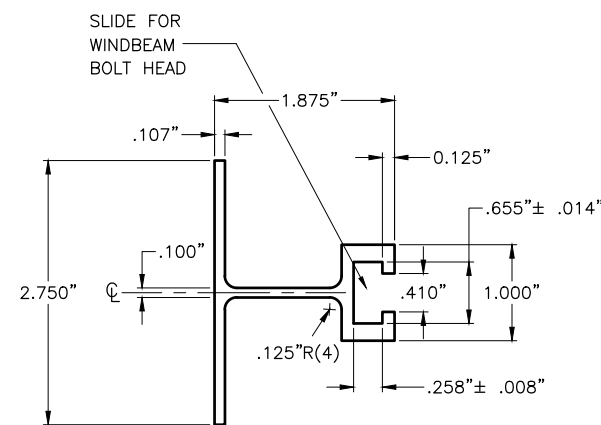


VIEW C - C

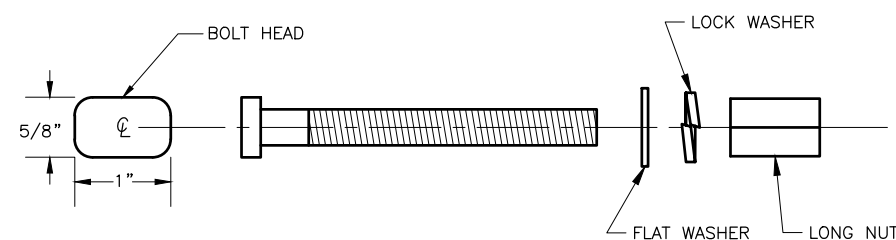


### D3-1 STREET NAME SIGN FRAMING DETAIL

PLAN VIEW



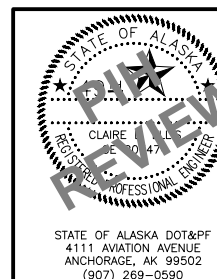
SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT

- NOTES:

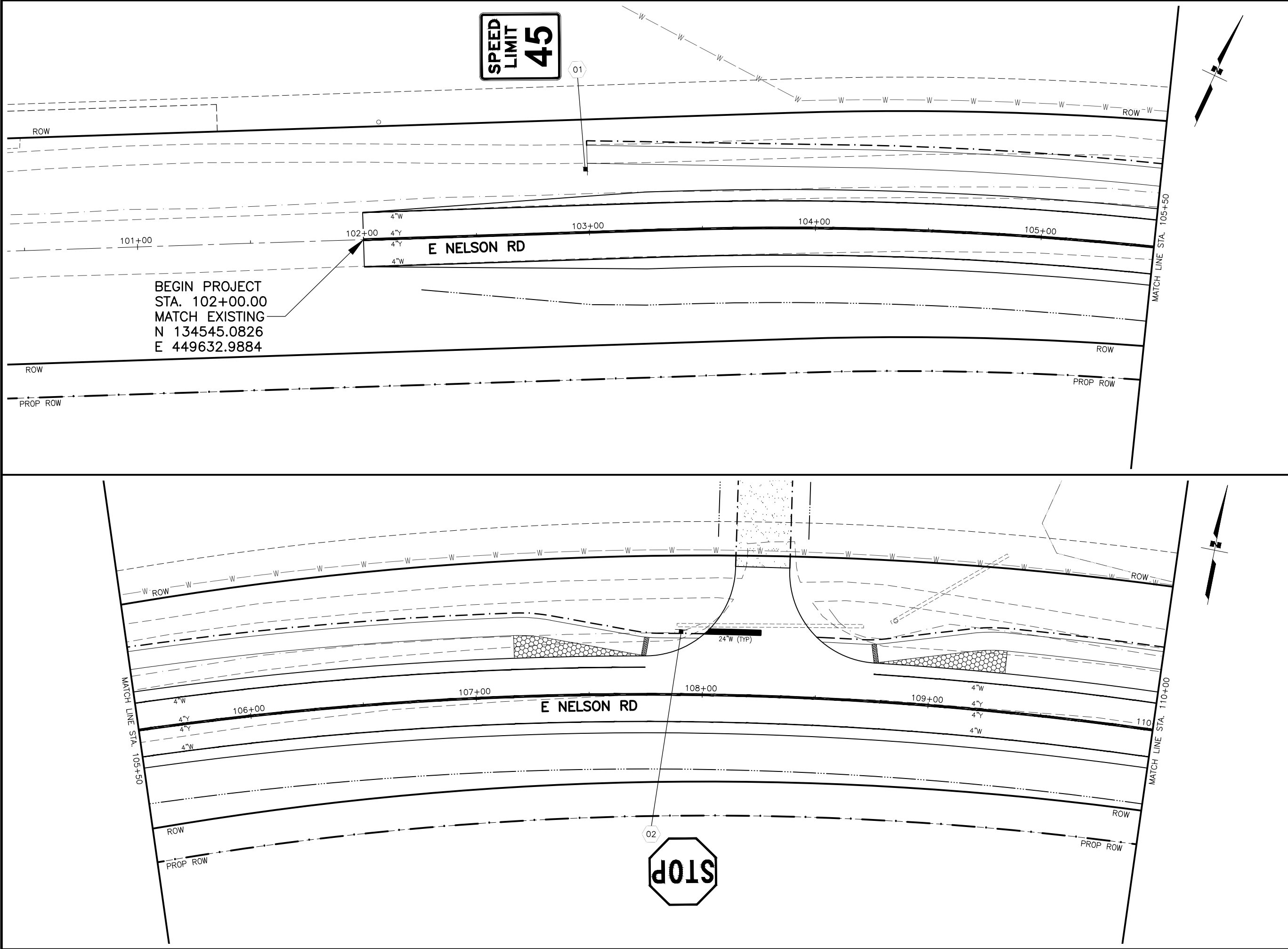
1. EXCEPT FOR POLES AND LAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
2. INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON OTHER SIGNS 36 INCHES WIDE AND WIDER.
3. IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
4. THIS DRAWING DEPICTS THE WINDBEAM FRAMING AND ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE SHAPED FRAMING ACCORDING TO REGIONAL DRAWING "SIGN ATTACHMENT DETAILS", USING "U" SHAPED BRACKETS AND TWO BOLTS WITH NUTS.
5. THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
6. USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
7. EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
8. ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
9. WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
  - A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
  - B. THE APPLICATION OF THE ADHESIVE TAPE.
10. WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
11. USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
12. THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

**TRUNK ROAD EXTENSION  
SOUTH, PHASE III**

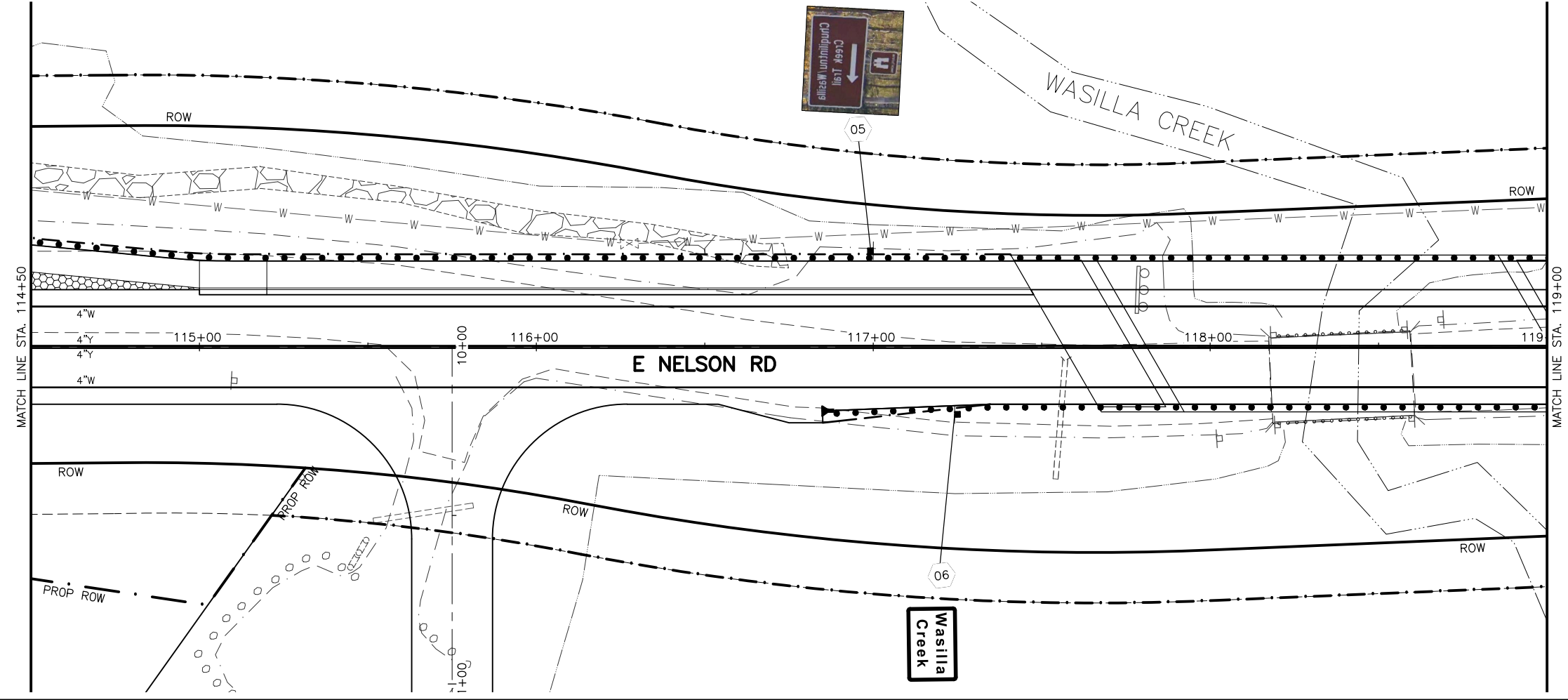
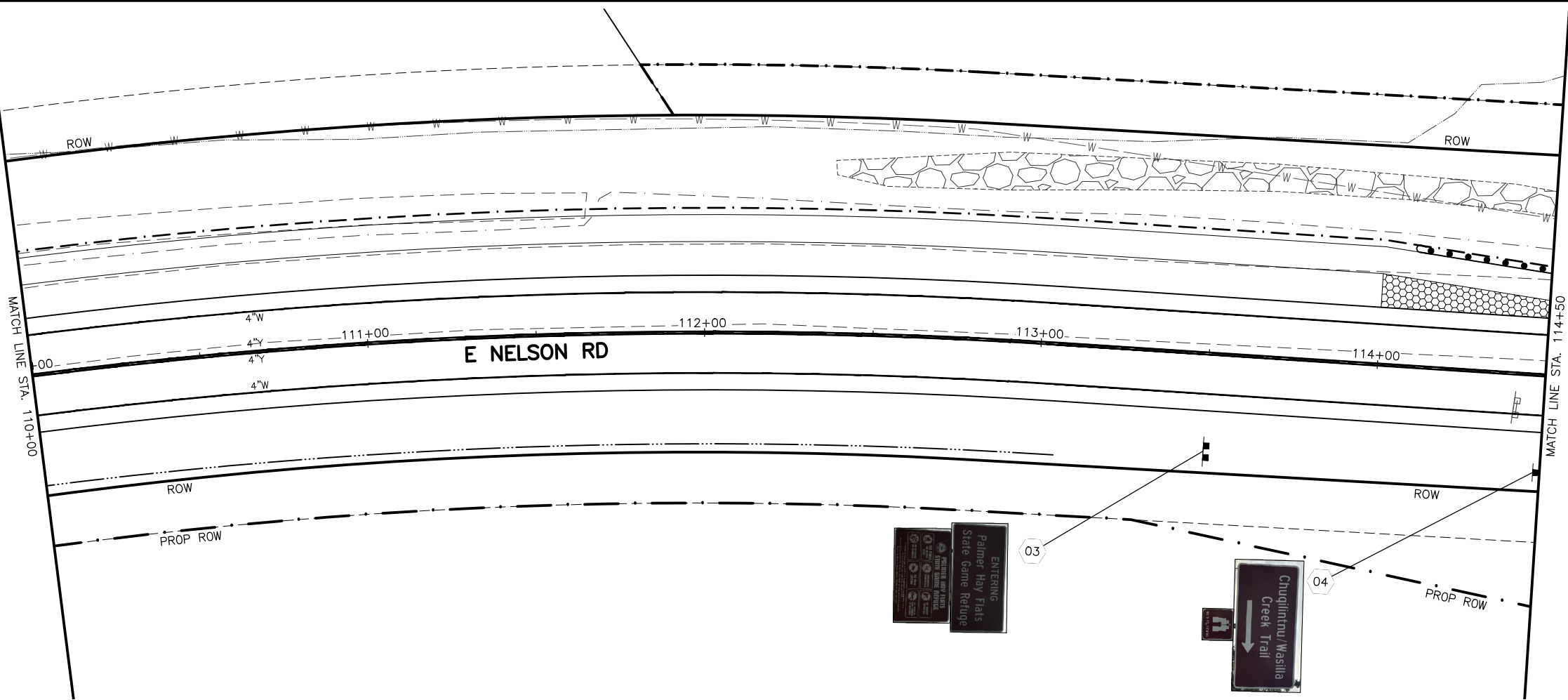
## LIGHT SIGN FRAMING AND ATTACHMENT DETAILS



|                        |              |
|------------------------|--------------|
| SHEET NO.              | TOTAL SHEETS |
| H04                    | H09          |
| STATE                  | YEAR         |
| ALASKA                 | 2027         |
| PROJECT DESIGNATION    |              |
| 0001747/<br>CFHWY00889 |              |
| NO.                    | REVISION     |
| DATE                   |              |
| NO.                    | REVISION     |
| DATE                   |              |
| NO.                    | REVISION     |
| DATE                   |              |

E NELSON RD  
E FETLOCK DR  
THIS SHEET

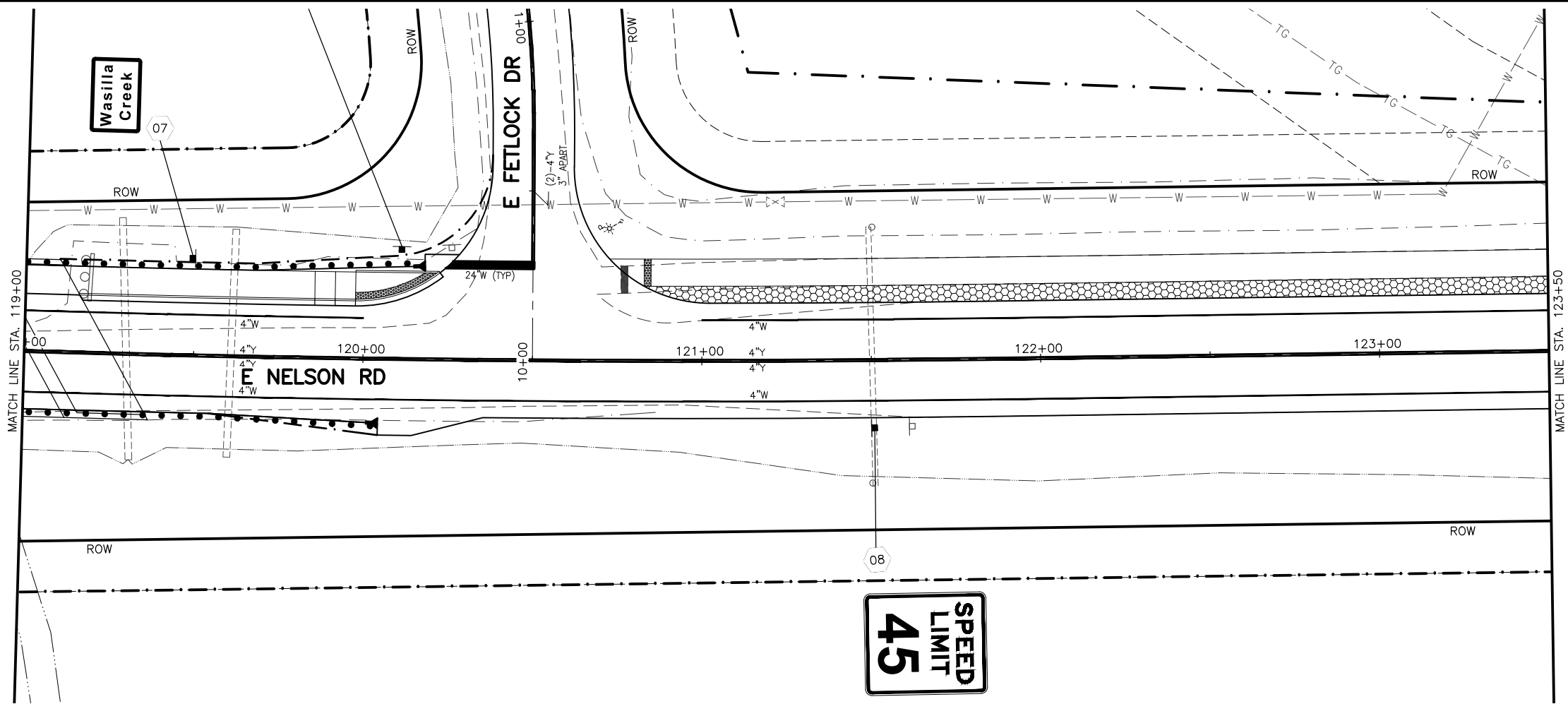
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
TRUNK ROAD  
EXTENSION SOUTH, PH III  
SIGNING AND STRIPING  
BOP TO  
STA. 110+00



|                                                       |                            |
|-------------------------------------------------------|----------------------------|
| SHEET NO.<br><b>H05</b>                               | TOTAL SHEETS<br><b>H09</b> |
| STATE<br><b>ALASKA</b>                                | YEAR<br><b>2027</b>        |
| PROJECT DESIGNATION<br><b>0001747/<br/>CFHWY00889</b> |                            |
| NO.                                                   | REVISION                   |
| DATE                                                  |                            |
| NO.                                                   | REVISION                   |
| DATE                                                  |                            |
| NO.                                                   | REVISION                   |
| DATE                                                  |                            |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

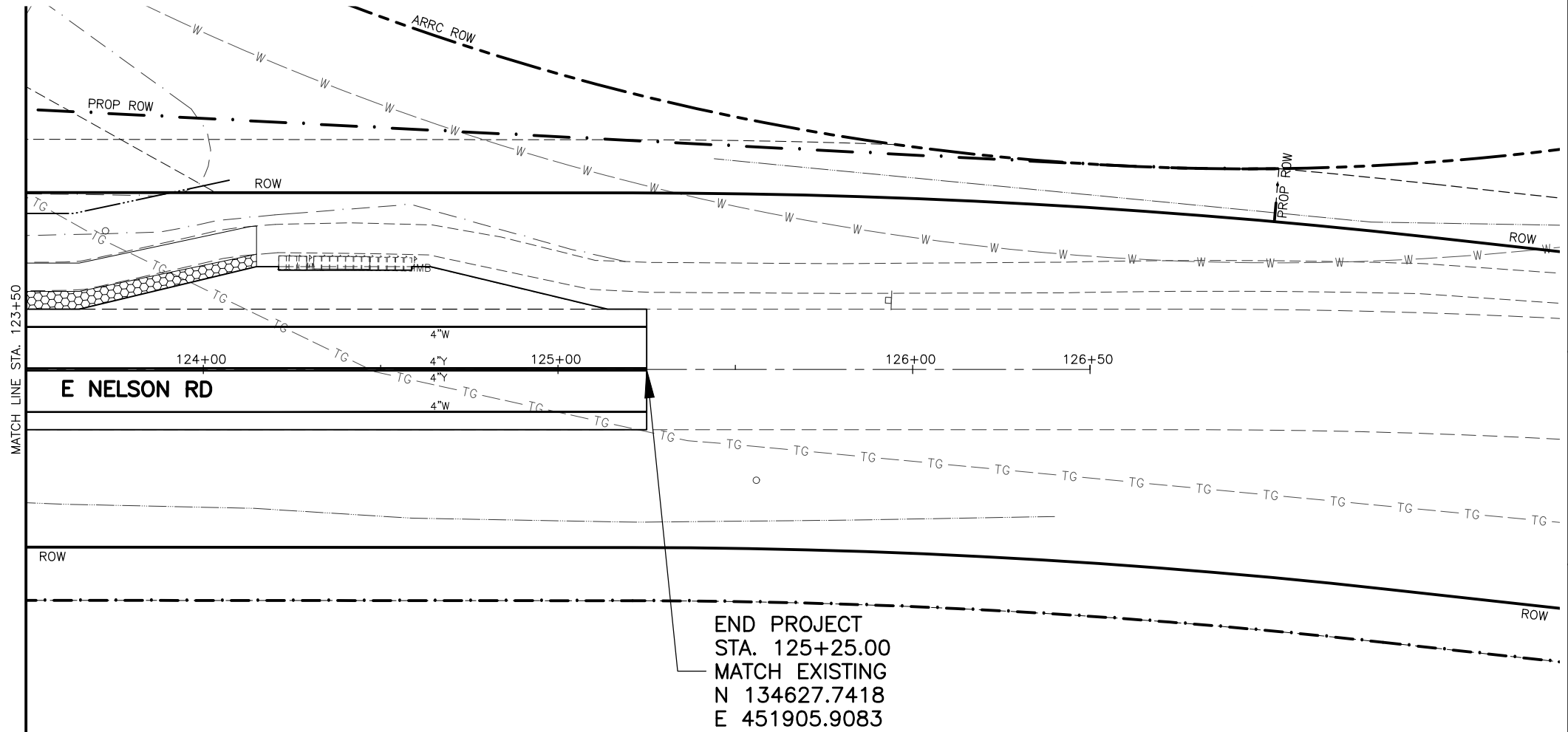
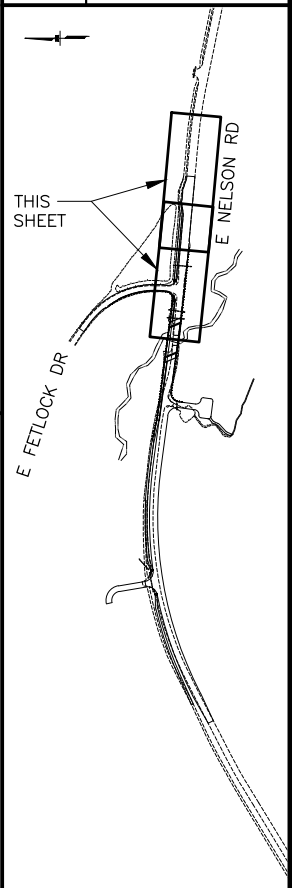
TRUNK ROAD  
EXTENSION SOUTH, PH III  
SIGNING AND STRIPING  
STA. 110+00 TO  
STA. 119+00



|           |              |
|-----------|--------------|
| SHEET NO. | TOTAL SHEETS |
| H06       | H09          |
| STATE     | YEAR         |
| ALASKA    | 2027         |

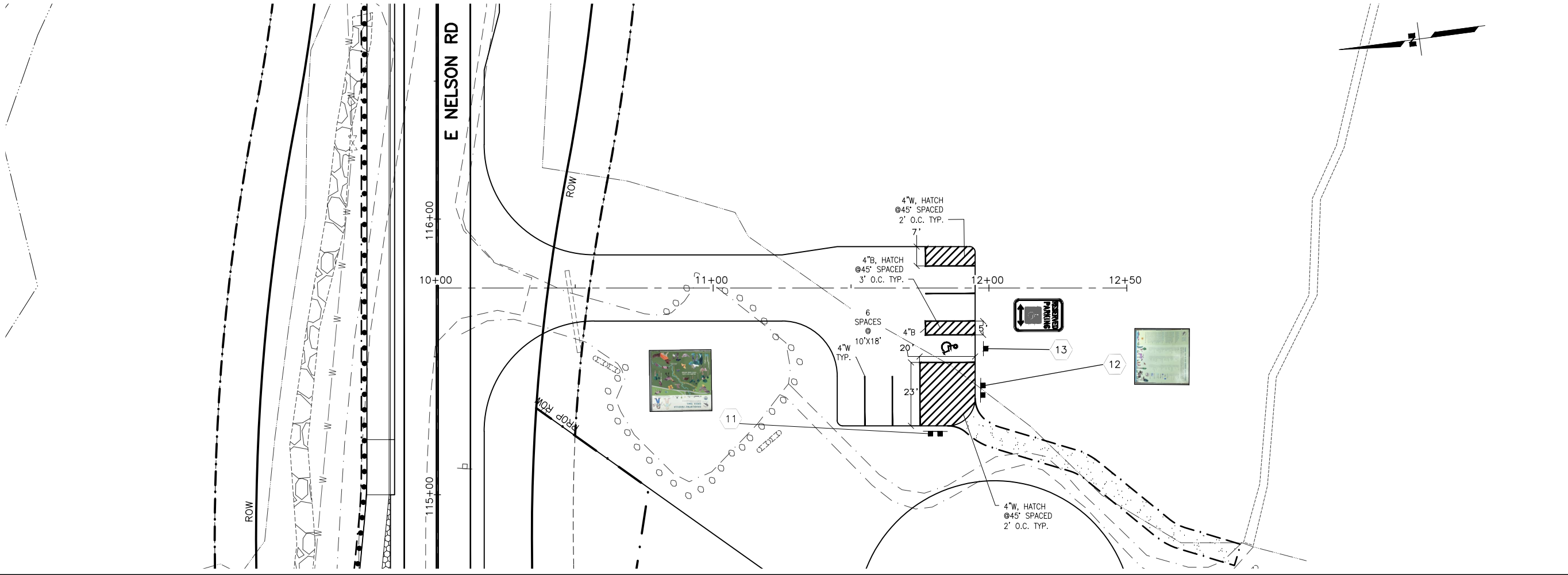
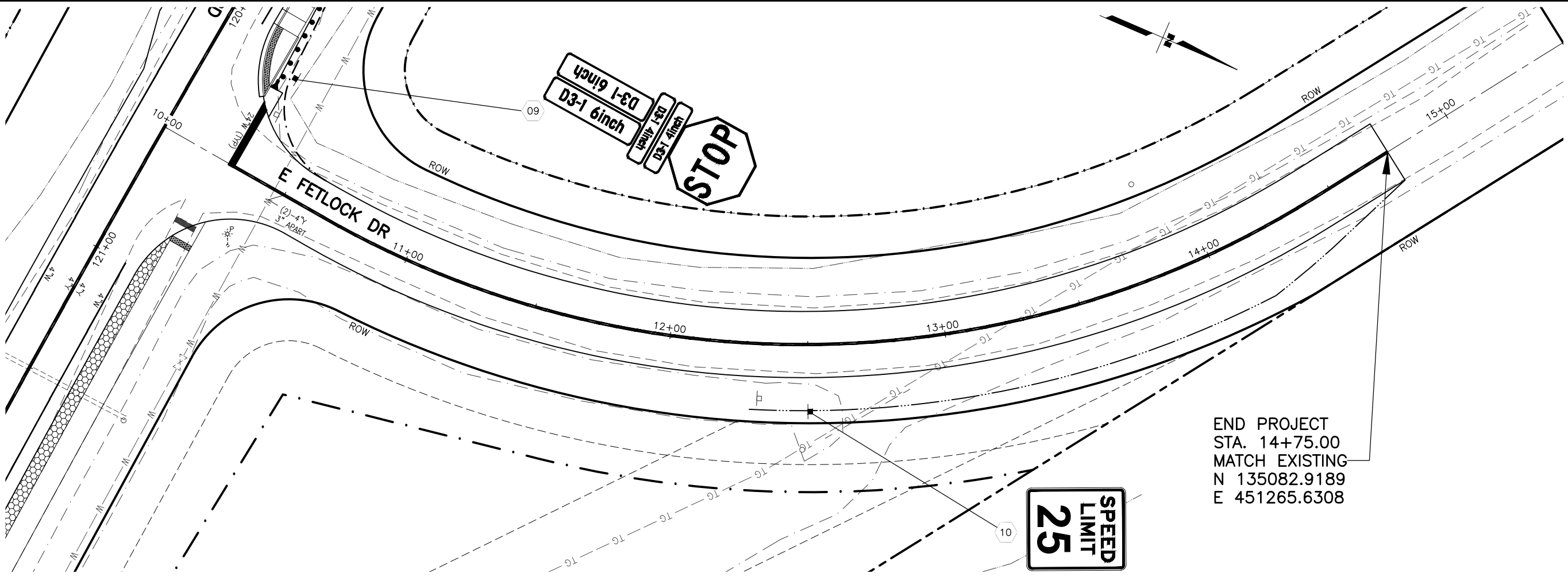
PROJECT DESIGNATION  
**0001747/  
CFHWY00889**

| NO.  | REVISION |
|------|----------|
|      |          |
| DATE |          |
|      |          |
| NO.  | REVISION |
|      |          |
| DATE |          |
|      |          |
| NO.  | REVISION |
|      |          |
| DATE |          |
|      |          |



STATE OF ALASKA DOT&PF  
4111 AVIATION AVENUE  
ANCHORAGE, AK 99502  
(907) 269-0590

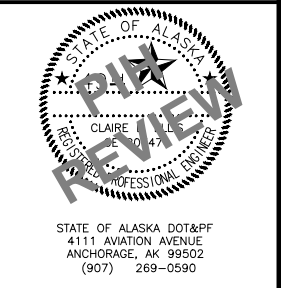
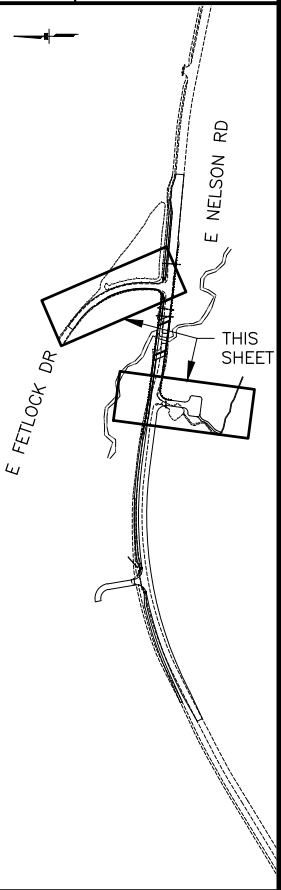
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
  
TRUNK ROAD  
EXTENSION SOUTH, PH III  
SIGNING AND STRIPING  
STA. 119+00  
TO EOP



|           |              |
|-----------|--------------|
| SHEET NO. | TOTAL SHEETS |
| H07       | H09          |
| STATE     | YEAR         |
| ALASKA    | 2027         |

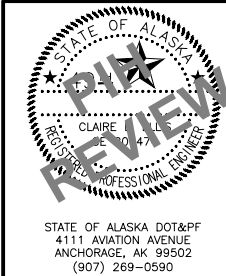
PROJECT DESIGNATION  
0001747/  
CFHWY00889

|      |          |
|------|----------|
| NO.  | REVISION |
| DATE |          |
| NO.  | REVISION |
| DATE |          |
| NO.  | REVISION |
| DATE |          |



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
TRUNK ROAD  
EXTENSION SOUTH, PH III  
SIGNING AND STRIPING  
STA. 10+00  
TO STA. 14+75

| SIGN SUMMARY |          |                   |        |         |                                                                                     |           |        |              |            |                        |         |    |                     |                                            |
|--------------|----------|-------------------|--------|---------|-------------------------------------------------------------------------------------|-----------|--------|--------------|------------|------------------------|---------|----|---------------------|--------------------------------------------|
| SHEET NO.    | SIGN NO. | STATION ALIGNMENT | CL REF | TYPE    | LEGEND                                                                              | SIZE (IN) |        | AREA (SQ FT) | SIGN FACES | POST NO., SIZE, & TYPE | FRAMED? |    | REMOVE AND RELOCATE | REMARKS                                    |
|              |          |                   |        |         |                                                                                     | WIDTH     | HEIGHT |              |            |                        | YES     | NO |                     |                                            |
|              |          |                   |        |         |                                                                                     |           |        |              |            |                        |         |    |                     |                                            |
| H04          | 1        | 103+00            | LT     | R2-1    |    | 24        | 30     | 5.00         | E          | 1-3.0" T               |         | X  |                     |                                            |
| H04          | 2        | 107+90            | LT     | R1-1    |    | 30        | 30     | 6.25         | N          | 1-3.0" T               |         | X  |                     |                                            |
| H05          | 3        | 113+50            | RT     | SPECIAL | ENTERING PALMER HAY FLATS STATE GAME REFUGE                                         | 42        | 36     | 10.50        | W          | 2-3.0" T               | X       |    | X                   | RELOCATE SIGNS FROM STATION 114+40, 10' RT |
|              |          |                   |        | SPECIAL | PALMER HAY FLATS GAME REFUGE "DO NOT DO LIST"                                       | 36        | 30     | 7.50         | W          |                        | X       |    | X                   |                                            |
| H05          | 4        | 114+50            | RT     | D7-105  | CHUQILINTNU/<br>WASILLA CREEK TRAIL<br>---->                                        | 36        | 29     | 7.25         | W          | 1-3.0" T               |         | X  | X                   | RELOCATE SIGNS FROM STATION 115+10, 10' RT |
|              |          |                   |        | RG-1000 | WILDLIFE VIEWING                                                                    | 24        | 24     | 4.00         | W          |                        |         | X  | X                   |                                            |
| H05          | 5        | 117+00            | LT     | D7-105  | CHUQILINTNU/<br>WASILLA CREEK TRAIL<br><----                                        | 36        | 29     | 7.25         | W          | 1-3.0" T               |         | X  |                     |                                            |
|              |          |                   |        | RG-1000 | WILDLIFE VIEWING                                                                    | 24        | 24     | 4.00         | W          |                        |         | X  |                     |                                            |
| H05          | 6        | 117+25            | RT     | I-3     | WASILLA CREEK                                                                       | 24        | 30     | 5.00         | W          | 1-3.0"T                |         | X  |                     |                                            |
|              |          |                   |        |         |                                                                                     |           |        |              |            |                        |         |    |                     |                                            |
| H06          | 7        | 119+50            | LT     | I-3     | WASILLA CREEK                                                                       | 24        | 30     | 5.00         | W          | 1-3.0"T                |         | X  |                     |                                            |
| H06          | 8        | 121+50            | RT     | R2-1    |  | 24        | 30     | 5.00         | E          | 1-3.0" T               |         | X  |                     |                                            |
|              |          |                   |        |         |                                                                                     |           |        |              |            |                        |         |    |                     |                                            |
| H07          | 9        | 10+30             | LT     | D3-1    | NELSON ROAD                                                                         | 48        | 12     | 4.00         | N          | 1-3.0" T               | X       |    |                     |                                            |
|              |          |                   |        | D3-1    | NELSON ROAD                                                                         | 48        | 12     | 4.00         | S          |                        | X       |    |                     |                                            |
|              |          |                   |        | D3-1    | FETLOCK DRIVE                                                                       | 36        | 8      | 2.00         | E          |                        | X       |    |                     |                                            |
|              |          |                   |        | D3-1    | FETLOCK DRIVE                                                                       | 36        | 8      | 2.00         | W          |                        | X       |    |                     |                                            |
|              |          |                   |        | R1-1    |  | 30        | 30     |              |            |                        |         | X  |                     |                                            |
| H07          | 10       | 12+50             | RT     | R2-1    |  | 24        | 30     | 5.00         | E          | 1-3.0" T               |         | X  |                     |                                            |
|              |          |                   |        |         |                                                                                     |           |        |              |            |                        |         |    |                     |                                            |



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

TRUNK ROAD EXTENSION  
SOUTH, PHASE III

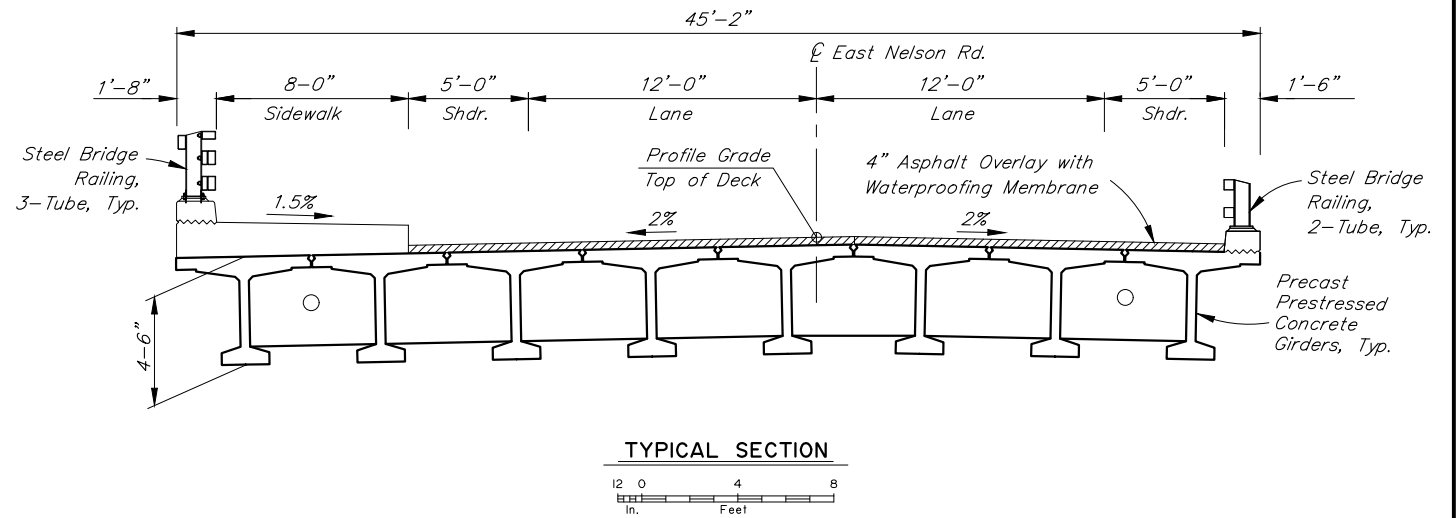
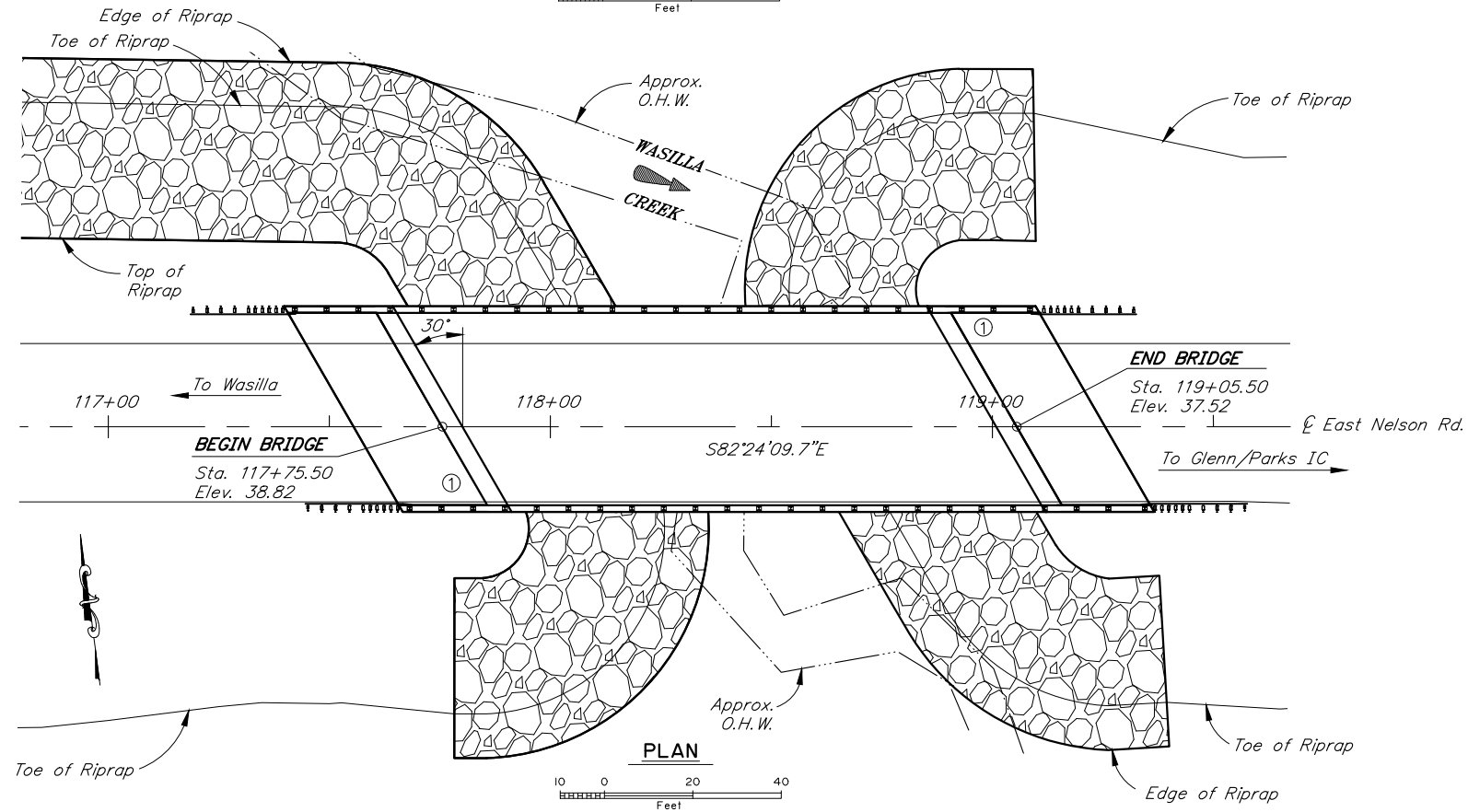
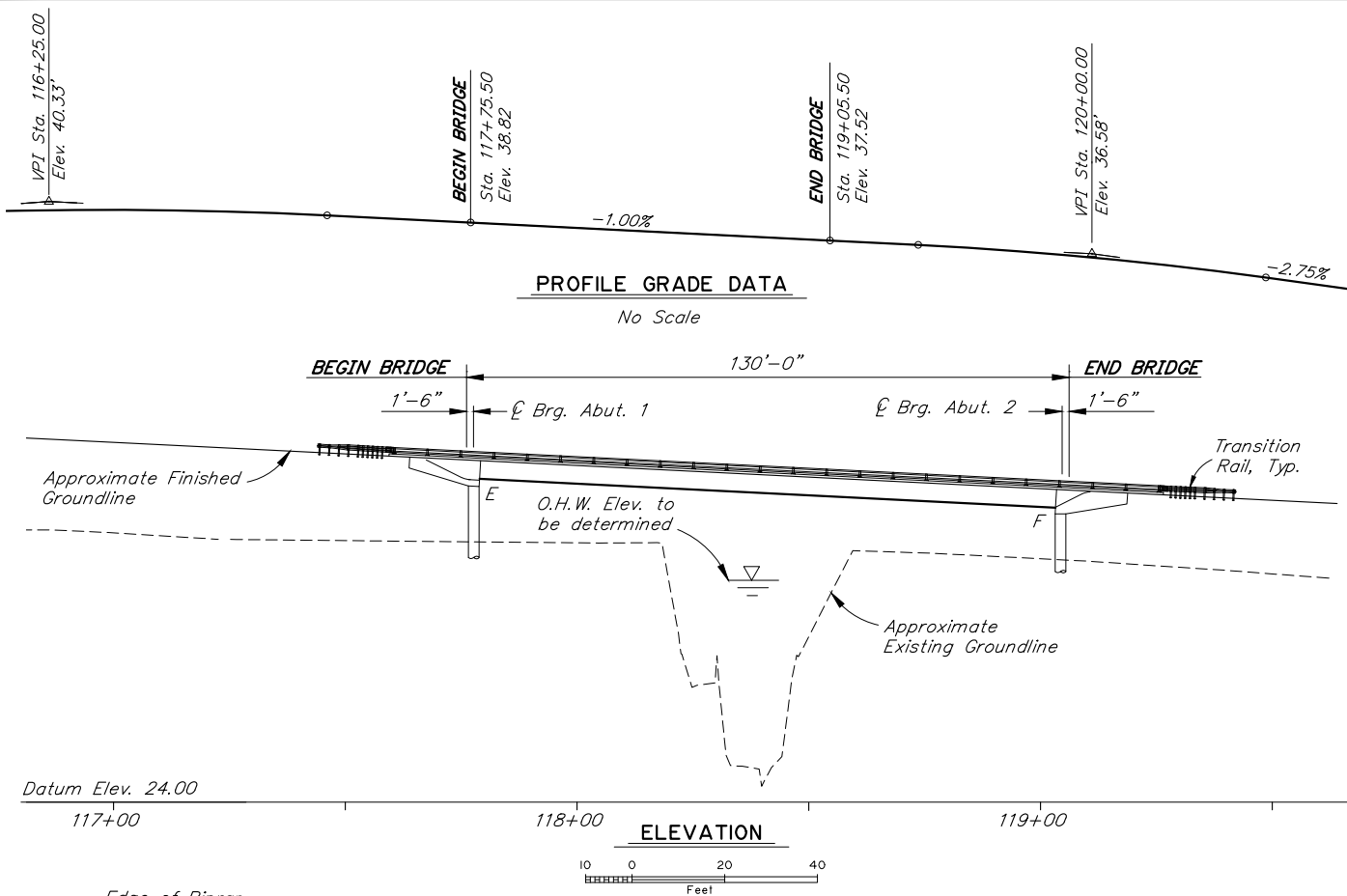
SUMMARY TABLES

| SIGN SUMMARY |          |                   |        |         |                                                                                     |           |        |              |            |                   |         |    |                     |                                            |
|--------------|----------|-------------------|--------|---------|-------------------------------------------------------------------------------------|-----------|--------|--------------|------------|-------------------|---------|----|---------------------|--------------------------------------------|
| SHEET NO.    | SIGN NO. | STATION ALIGNMENT | CL REF | TYPE    | LEGEND                                                                              | SIZE (IN) |        | AREA (SQ FT) | SIGN FACES | POST              | FRAMED? |    | REMOVE AND RELOCATE | REMARKS                                    |
|              |          |                   |        |         |                                                                                     | WIDTH     | HEIGHT |              |            | NO., SIZE, & TYPE | YES     | NO |                     |                                            |
|              |          |                   |        |         |                                                                                     |           |        |              |            |                   |         |    |                     |                                            |
| H07          | 11       | 11+82             | 51' RT | SPECIAL | WASILLA CREEK TRAIL HEAD SIGN                                                       | 72        | 72     | 36.00        | E          | 2-3.0" T          |         |    | X                   | RELOCATE SIGN FROM STATION 10+60, 26.5' RT |
| H07          | 12       | 11+98             | 22' RT | SPECIAL | WASILLA CREEK TRAIL HEAD SIGN                                                       | 72        | 72     | 36.00        | E          | 2-3.0" T          |         |    | X                   | RELOCATE SIGN FROM STATION 11+20, 56' RT   |
| H07          | 13       | 11+99             | 36' RT | R7-8    |  | 12        | 18     | 1.50         | N          | 1-2.5"PT          |         |    |                     |                                            |
|              |          |                   |        |         |                                                                                     |           |        | 157.25       |            |                   |         |    |                     |                                            |



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| STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|--------|---------------------|------|-----------|--------------|
| ALASKA | CFHWY00889          | 2025 | N1        | Nxxx         |



| BRIDGE DRAWING INDEX             |          |
|----------------------------------|----------|
| TITLE                            | DWG. NO. |
| GENERAL LAYOUT                   | 1        |
| SITE PLAN                        | 2        |
| RIPRAP LAYOUT                    | 3        |
| RIPRAP DETAILS                   | 4        |
| ABUTMENT 1                       | 5        |
| ABUTMENT 2                       | 6        |
| ABUTMENT DETAILS                 | 7        |
| WINGWALLS                        | 8        |
| FRAMING PLAN AND TYPICAL SECTION | 9        |
| GIRDERS                          | 10       |
| GIRDER DETAILS                   | 11       |
| APPROACH SLABS                   | 12       |
| BRIDGE RAILING 2-TUBE            | 13       |
| BRIDGE RAILING 3-TUBE            | 14       |

## PRELIMINARY PLAN

**NOTE:**

① Approximate location of Bridge Number Plate.

|                            |                      |                                           |                            |
|----------------------------|----------------------|-------------------------------------------|----------------------------|
| DESIGNED BY: Julie Tibor   | CHECKED: Engineer    | LAYOUT BY: Julie Tibor                    | CHECKED BY: Engineer       |
| DRAWN BY: Rick Grantham    | CHECKED: Julie Tibor | SPECIFICATIONS BY: Julie Tibor            | P S & E COMPARED: Engineer |
| QUANTITIES BY: Julie Tibor | CHECKED: Engineer    | APPROVAL RECOMMENDED BY: Leslie Daugherty |                            |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
BRIDGE SECTION  
3132 Channel Drive  
Juneau, Alaska 99801  
907-465-2975

WASILLA CREEK BRIDGE  
EAST NELSON ROAD  
GENERAL LAYOUT



BRIDGE NO. 2227  
DWG. NO. 1

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|        |                     |      |           |              |
|--------|---------------------|------|-----------|--------------|
| STATE  | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
| ALASKA | CFHWY00889          | 2025 | N2        | Nxxx         |

GENERAL NOTES

DESIGN:..... AASHTO LRFD Bridge Design Specifications, 2024 Edition, with latest interim specifications.

Seismic design per AASHTO Guide Specifications for LRFD Seismic Bridge Design, 2023 with latest interim revisions.

LIVE LOAD:..... HL-93

DEAD LOAD:.....Includes 50 psf for all wearing surfaces.

SEISMIC PARAMETERS:..... Seismic Design Category = D  
Site Class = D  
Liquefaction Potential = High  
AASHTO Risk-Targeted Ground Motions, 1.5% targeted risk in 75 years.  
Selected acceleration coefficients shown below:

| SITE ADJUSTED SPECTRAL ACCELERATION COEFFICIENTS (S <sub>a</sub> ) |                  |              |                  |
|--------------------------------------------------------------------|------------------|--------------|------------------|
| PERIOD (SEC)                                                       | ACCELERATION (g) | PERIOD (SEC) | ACCELERATION (g) |
| 0.00                                                               | 0.51             | 1.00         | 0.83             |
| 0.10                                                               | 0.72             | 1.50         | 0.62             |
| 0.25                                                               | 1.10             | 2.00         | 0.49             |
| 0.50                                                               | 1.17             | 3.00         | 0.32             |
| 0.75                                                               | 0.97             | 4.00         | 0.23             |

REINFORCEMENT:..... ASTM A706, Grade 60, F<sub>y</sub> = 60,000 psi  
ASTM A970 Headed bars, Class HA.  
Space reinforcement evenly unless otherwise noted.

PRESTRESSED CONCRETE:..... See "GIRDERS" Dwg.

CONCRETE:..... Class A Concrete unless otherwise noted, f'c = 4000 psi

STRUCTURAL STEEL:..... ASTM A709, Grade 36T3, F<sub>y</sub> = 36,000 psi  
Galvanize structural steel in accordance with AASHTO M111 unless shown otherwise.

STRUCTURAL STEEL PILING:..... API 5L X52 PSL2, F<sub>y</sub> = 52,000 psi. or  
ASTM A709, GR50T3, F<sub>y</sub> = 50,000 psi.  
Pile Tip reinforcing is required.

PILE DATA TABLE

|            |           | DRIVING CRITERIA                   |                                   | DESIGN DATA            |                              |                        |                      |
|------------|-----------|------------------------------------|-----------------------------------|------------------------|------------------------------|------------------------|----------------------|
| LOCATION   | PILE TYPE | MINIMUM PENETRATION ELEVATION (ft) | ESTIMATED PILE TIP ELEVATION (ft) | DRIVING RESISTANCE (K) | STRENGTH I FACTORED LOAD (K) | NOMINAL RESISTANCE (K) | RESISTANCE FACTOR, ϕ |
| Abutment 1 |           |                                    |                                   |                        |                              |                        |                      |
| Abutment 2 |           |                                    |                                   |                        |                              |                        |                      |

ABBREVIATIONS:

|         |                              |                |                                   |        |                                  |
|---------|------------------------------|----------------|-----------------------------------|--------|----------------------------------|
| ℄       | = centerline                 | e.f.           | = each face                       | min.   | = minimum                        |
| ?       | = plate                      | e.w.           | = each way                        | n.f.   | = near face                      |
| &       | = and                        | Ext.           | = exterior                        | No.    | = number                         |
| @       | = at                         | F              | = fixed                           | o.c.   | = center                         |
| ∅       | = diameter                   | f.a.           | = front/air face                  | O.H.W. | = ordinary high water            |
| ±       | = approximate                | f'c            | = specified concrete              | pcf    | = pounds per cubic foot          |
| Abut.   | = abutment                   |                | = compressive strength            | psf    | = pounds per square foot         |
| Approx. | = approximate                | f'ci           | = specified concrete              | psi    | = pounds per square inch         |
| b.f.    | = back/dirt face             |                | = compressive strength at release | R      | = radius                         |
| bot.    | = bottom                     | Ft.            | = feet                            | R.O.W. | = right of way                   |
| Br.     | = bridge                     | F <sub>y</sub> | = yield stress                    | RT.    | = right                          |
| btwn.   | = between                    | Galv.          | = galvanize                       | Rd.    | = road                           |
| Brg.    | = bearings                   | H.S.           | = high strength                   | spcs.  | = space, spaces                  |
| C.G.    | = center of gravity          | Hwy.           | = highway                         | Sta.   | = station                        |
| C.I.P.  | = cast in place              | ID             | = internal diameter               | SF     | = square feet                    |
| CJP     | = complete joint penetration | Int.           | = interior                        | SY     | = square yard                    |
| Clr.    | = clear, clearance           | Jt.            | = joint                           | Std.   | = standard                       |
| CMP     | = corrugated metal pipe      | K              | = kips                            | Symm.  | = symmetric                      |
| CY      | = cubic yard                 | ksf            | = 1000 pounds per square foot     | Typ.   | = typical                        |
| Dia.    | = diameter                   | ksi            | = 1000 pounds per square inch     | UT     | = ultrasonic testing             |
| Dwg.    | = drawing                    | LBS or lb      | = pounds                          | VPC    | = point of vertical curve        |
| E       | = expansion                  | LF             | = linear foot                     | VPI    | = point of vertical intersection |
| (E)     | = existing                   | LS             | = lump sum                        | VPT    | = point of vertical tangent      |
| EA      | = each                       | LT.            | = left                            | w/     | = with                           |
| Elev.   | = elevation                  | max.           | = maximum                         |        |                                  |

| ESTIMATE OF QUANTITIES |                                                             |          |                 |        |          |                |
|------------------------|-------------------------------------------------------------|----------|-----------------|--------|----------|----------------|
| ITEM NO.               | ITEM                                                        | PAY UNIT | ESTIMATING UNIT | SUBST. | SUPERST. | TOTAL QUANTITY |
| 202.0023.0000          | Removal of Bridge, Bridge No. 2227                          | LS       | LS              |        |          |                |
| 203.0003.0000          | Unclassified Excavation                                     | CY       | CY              |        |          |                |
| 205.0006.0000          | Structural Fill                                             | CY       | CY              |        |          |                |
| 501.0001.0000          | Class A Concrete                                            | LS       | CY              |        |          |                |
| 501.0007.0000          | Precast Concrete Member, 130'-00" Decked Bulb-Tee           | EA       | EA              |        |          |                |
| 503.0001.0000          | Reinforcing Steel                                           | LS       | LBS             |        |          |                |
| 503.0002.0000          | Epoxy-Coated Reinforcing Steel                              | LS       | LBS             |        |          |                |
| 505.0005.2450          | Furnish Structural Steel Piles, 2'-0" Dia. x 1/2" Pipe Pile | LF       | LF              |        |          |                |
| 505.0006.2450          | Drive Structural Steel Piles, 2'-0" Dia. x 1/2" Pipe Pile   | EA       | EA              |        |          |                |
| 507.0001.0002          | Steel Bridge Railing, 2-Tube                                | LF       | LF              |        |          |                |
| 507.0001.0003          | Steel Bridge Railing, 3-Tube                                | LF       | LF              |        |          |                |
| 508.0001.0000          | Waterproofing Membrane, Spray-Applied                       | SF       | SF              |        |          |                |
| 520.0001.0000          | Temporary Crossings                                         | LS       | LS              |        |          |                |
| 606.0016.0000          | Transition Rail                                             | EA       | EA              |        |          |                |
| 611.0001.0002          | Riprap, Class II                                            | CY       | CY              |        |          |                |
| 631.0002.0001          | Geotextile, Erosion Control, Class 1                        | SY       | SY              |        |          |                |

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

|                            |                      |                                          |
|----------------------------|----------------------|------------------------------------------|
| DESIGNED BY: Julie Tibor   | CHECKED: Engineer    | FOUNDATIONS REVIEWED BY: Dave Hernstreet |
| DRAWN BY: Rick Grantham    | CHECKED: Julie Tibor |                                          |
| QUANTITIES BY: Julie Tibor | CHECKED: Engineer    |                                          |

PRELIMINARY PLAN

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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BRIDGE SECTION  
3132 Channel Drive  
Juneau, Alaska 99801  
907-465-2975

WASILLA CREEK BRIDGE  
EAST NELSON ROAD  
SITE PLAN



BRIDGE NO. 2227

DWG. NO. 2