

MEMORANDUM

State of Alaska

Department of Transportation & Public Facilities
Design and Engineering Services – Central Region
Highway Design Section

TO: File

DATE: November 23, 2016

TELEPHONE NO: 907-269-0589

FROM: Cynthia Ferguson, P.E.
Project Manager

SUBJECT: Traffic Control Plan
AMATS: O’Malley Road
Reconstruction, Phase I
0512(008)/Z538040000

This memo has been prepared to summarize the general traffic control methods required for construction of the **AMATS: O’Malley Road Reconstruction Phase I, Seward Highway to Livingston Street.**

The Alaska Department of Transportation & Public Facilities (DOT&PF) has required this plan to ensure constructability and as a starting point for a contractor generated traffic control plan (TCP). This recognizes that different contractors will have various methods for controlling traffic and safety. All TCPs must adhere to Part 6 of the Alaska Traffic Manual. Pedestrian detour routing will be installed according to Standard Drawing C-03.10 and as modified in the Plans.

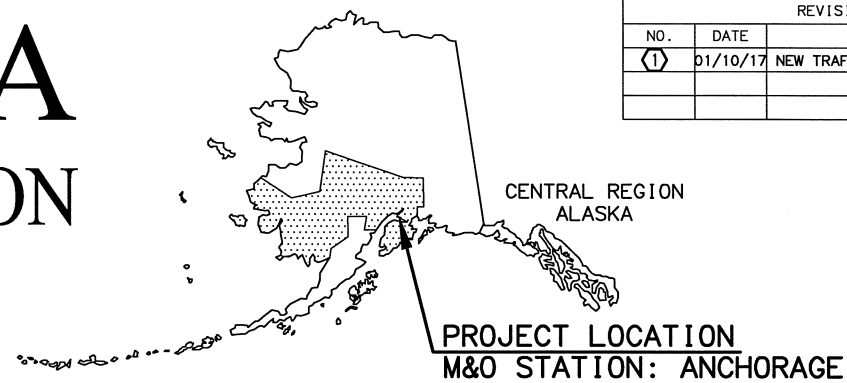
The attached details provide direction on how to treat roadside slope, obstacles, hazards, and clear distances. Also included are acceptable locations for permanent construction signs. The location of the permanent construction signs will be installed according to Standard Drawing C-04.12 and as modified by the attached plan drawing, unless approved otherwise by the Engineer.

Refer to the project specifications for further guidance on public information efforts and agency coordination requirements.

DESIGNED BY: N/A
CHECKED BY: N/A
DRAWN BY: N/A
SCALE: N/A
LAYOUT: TCP
DATE: 1/10/2017 11:02 AM
DRAWING LOCATION: W:\Projects\O'Malley Reconst-53804\Civil\Drawings\A1 Title.DWG

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES



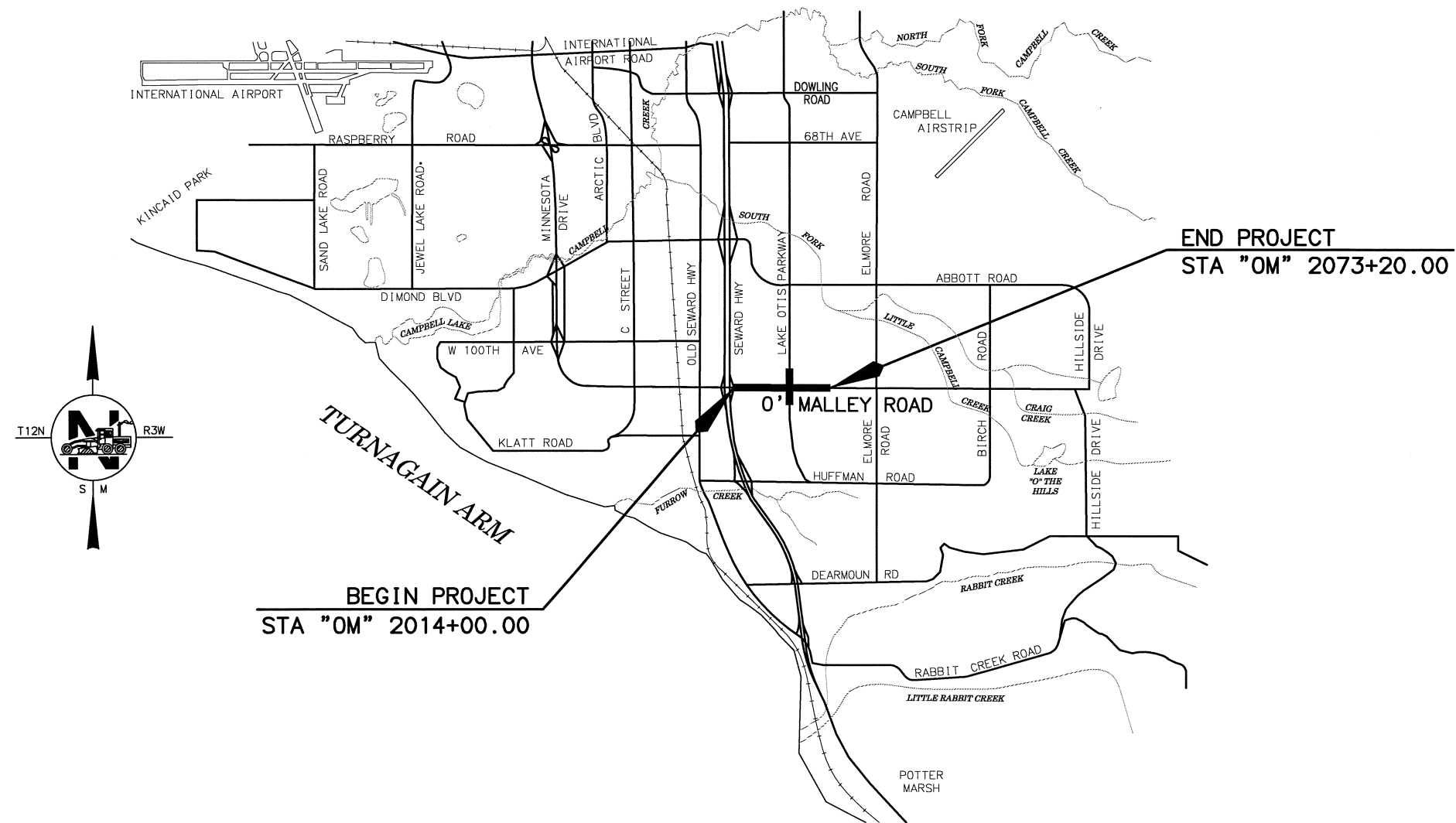
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL 'A' SHEETS
NO.	DATE	DESCRIPTION					
(1)	01/10/17	NEW TRAFFIC CONTROL PLAN	ALASKA	0512(008)/Z538040000	2016	J1	J9
			CDS ROUTE: 135000		MILEPOINT: 0.199 TO 1.398		
			LATITUDE: 60°07'11"N		LONGITUDE: 149°50'02"W		

PROPOSED HIGHWAY RECONSTRUCTION PROJECT

AMATS: O'MALLEY ROAD RECONSTRUCTION, PH I SEWARD HIGHWAY TO LIVINGSTON STREET

PROJECT NO. 0512(008)/Z538040000

TRAFFIC CONTROL PLAN

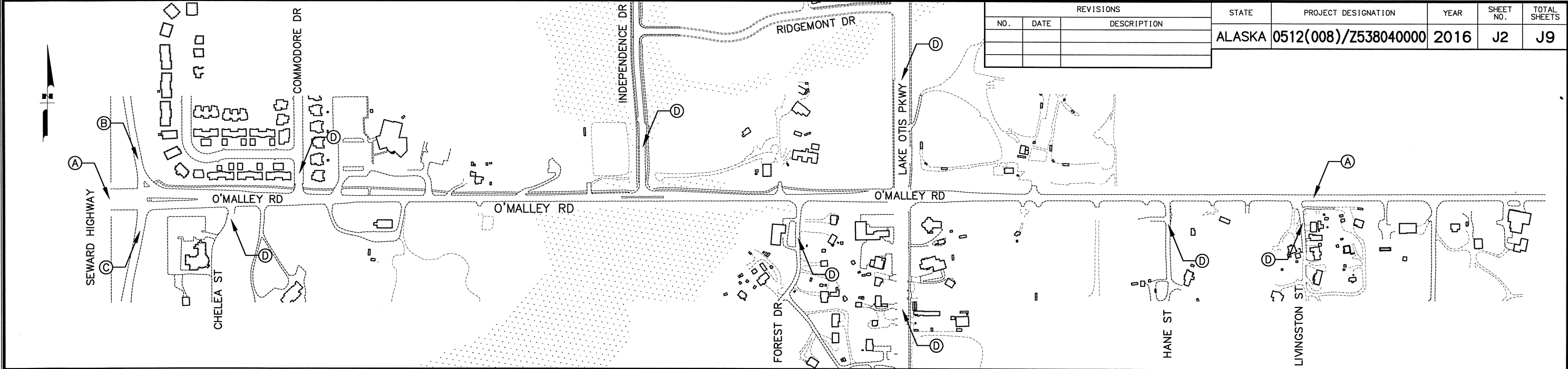


THE FOLLOWING STANDARD DRAWINGS
APPLY TO THIS PROJECT:
C-03.10*, C-04.12, C-05.20

*AS MODIFIED HERE IN

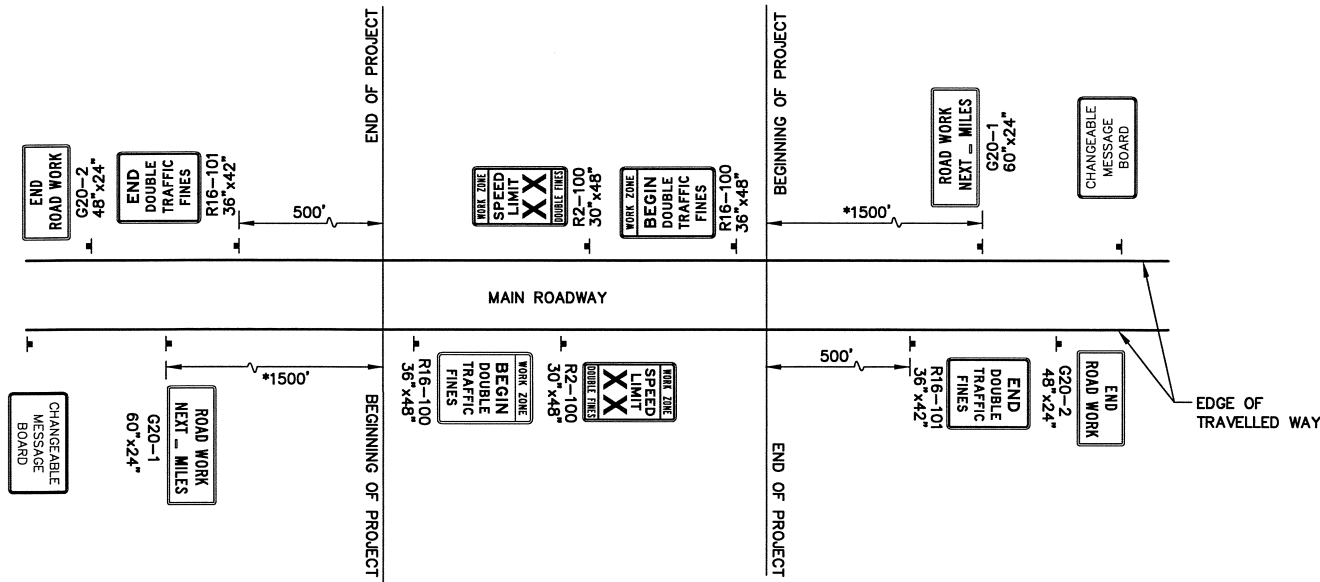
INDEX	
SHEET NO.	DESCRIPTION
J1	TITLE SHEET
J2	PERMANENT CONSTRUCTION SIGNS
J3	TYPICAL SECTIONS
J4-J5	NORTH DETOUR PLAN VIEW SHEETS
J6-J7	SOUTH DIVERSION PLAN VIEW SHEETS
J8	INDEPENDENCE DETOUR
J9	DETAILS

DATE: 01/10/2017



REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0512(008)/Z538040000	2016	J2	J9



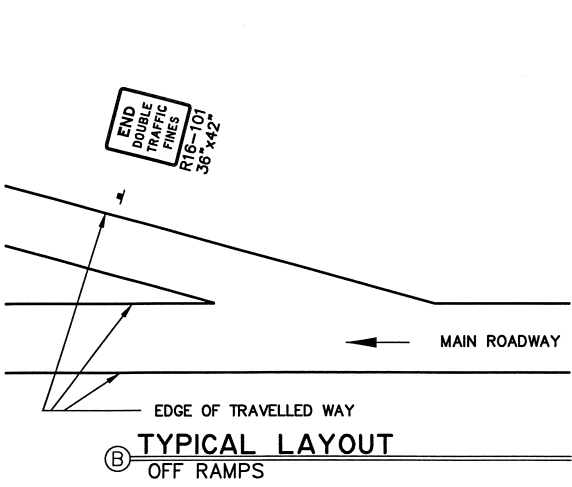
GENERAL NOTES

- ON STANDARD DRAWING C-03.10, PROVIDE ADA COMPLIANT PEDESTRIAN TRAFFIC CONTROL DEVICES FOR PEDESTRIAN DETOURS.
- FROM STA 2033+00 TO STA 2047+00 COMPLETE ALL ROADWAY WORK NECESSARY TO INSTALL AND PLACE BOTTOM LIFT OF ATB BY OCTOBER 1, 2017. THIS INCLUDES, BUT IS NOT LIMITED TO, INSTALLATION OF NECESSARY TRAFFIC CONTROL DEVICES AS DIRECTED BY THE ENGINEER. SEE SUBSECTION 651-1.05 INTERIM COMPLETION.

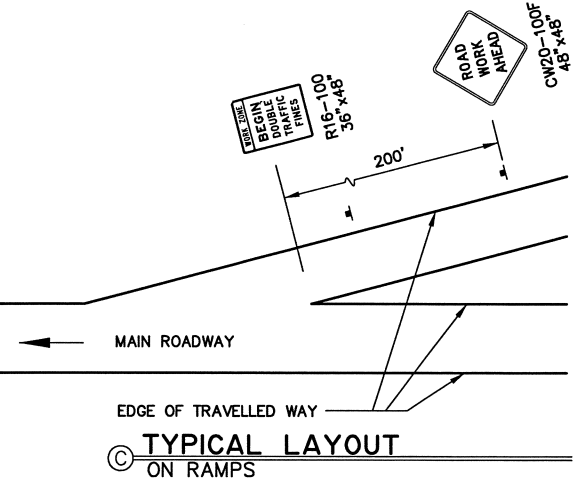
SIGNING NOTES

- SPEED LIMIT TO BE DETERMINED BY THE PROJECT ENGINEER.
- SEE STANDARD DRAWING C-04.12 FOR SPACING OF DOUBLE FINE SIGNS AND SPEED LIMIT SIGNS.
- CHANGEABLE MESSAGE BOARD SHALL BE USED FOR ADVANCED NOTIFICATION. LOCATION OF CHANGEABLE MESSAGE BOARDS SHALL BE DETERMINED BY THE ENGINEER.
- CHANGEABLE MESSAGE BOARDS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER PAY ITEM 643(3).

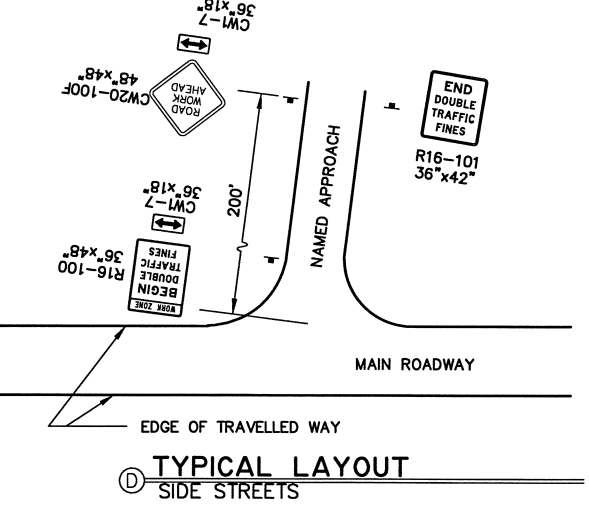
A TYPICAL LAYOUT
PERMANENT CONSTRUCTION SIGNING
* LOCATION TO BE DETERMINED BY PROJECT ENGINEER.



B TYPICAL LAYOUT
OFF RAMPS



C TYPICAL LAYOUT
ON RAMPS



D TYPICAL LAYOUT
SIDE STREETS

DESIGNED BY: KUB
CHECKED BY: CJP
DRAFTED BY: PJS

ARE'S
X-Barrier-Detail

SCALE
N/A

LAYOUT
J3

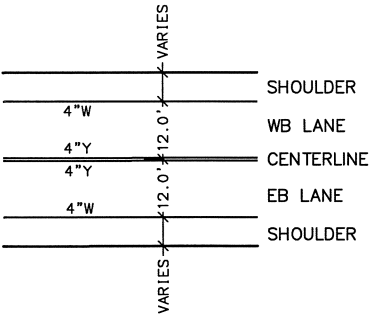
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1/10/2017 5:31 PM

TIME
1/10/2017 5:31 PM

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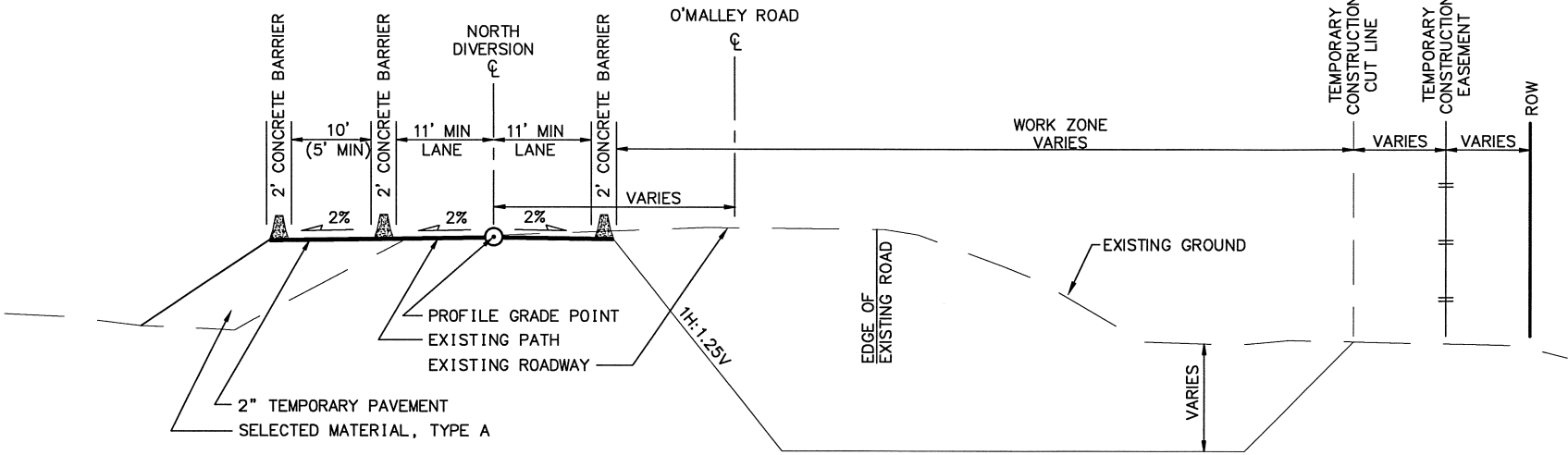
REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0512(008)/Z538040000	2016	J3	J9



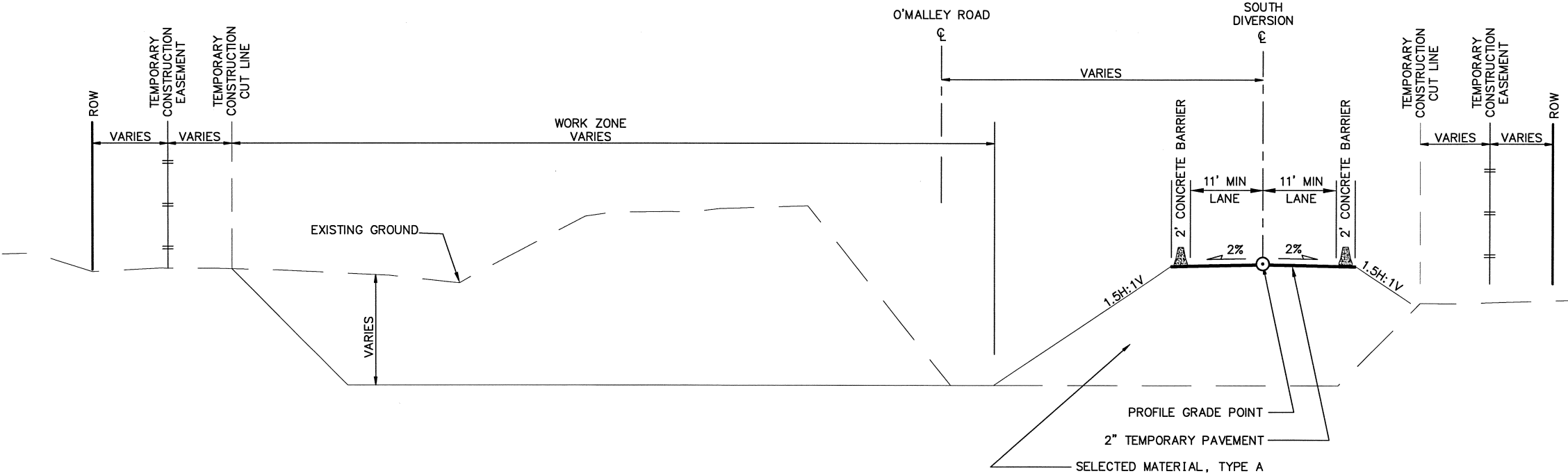
INTERIM STRIPING

APPROX. STA. 2033+00 TO STA. 2047+00
NOTE: INTERIM STRIPING TO BE 15 MIL SURFACE APPLIED MMA.



SOUTH SUBEXCAVATION

STA. 2037+00 TO STA. 2044+50
*SEE SUBEXCAVATION DETAIL FOR LAYOUT



NORTH SUBEXCAVATION

STA. 2037+00 TO STA. 2044+50
*SEE SUBEXCAVATION DETAIL FOR LAYOUT

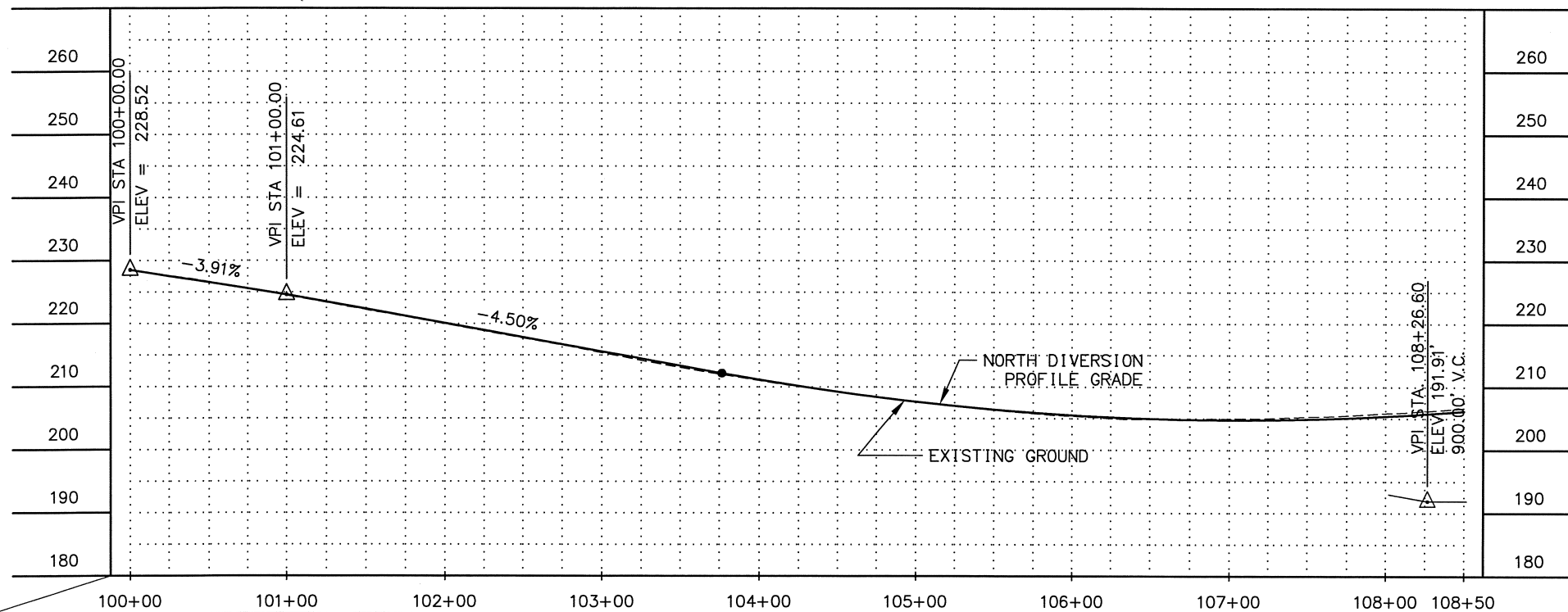
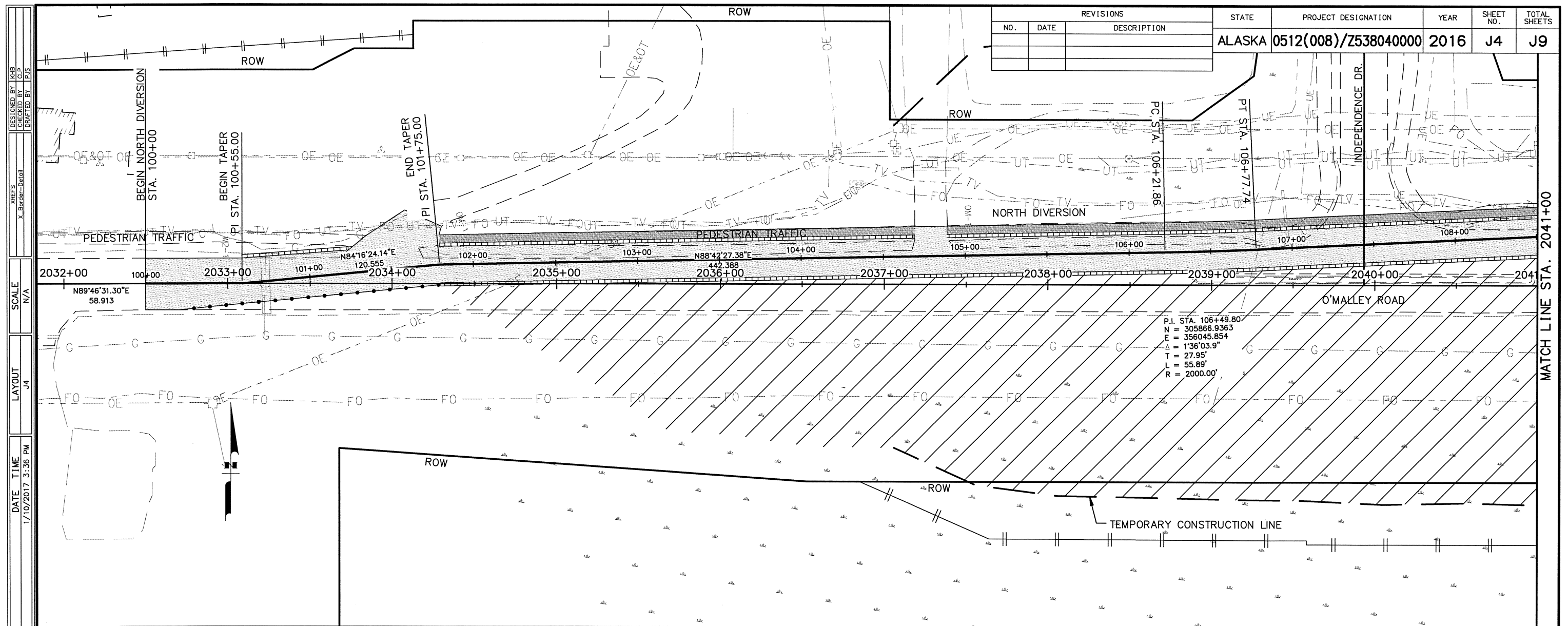
STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: O'MALLEY RD RECONST, PH I
SEWARD HWY TO LIVINGSTON ST**

**TRAFFIC CONTROL
TYPICAL SECTIONS**

REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0512(008)/Z538040000	2016	J4	J9



TCP LEGEND

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**AMATS: O'MALLEY RD RECONST, PH I
SEWARD HWY TO LIVINGSTON ST**

TRAFFIC CONTROL
NORTH DIVERSION
SOUTH SUBEXCAVATION

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ANCHORAGE, AK 99502
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DESIGNED BY: RHB
CHECKED BY: JUS
DRAFTED BY: JUS

XREFS
X_Border-Detail

SCALE
N/A

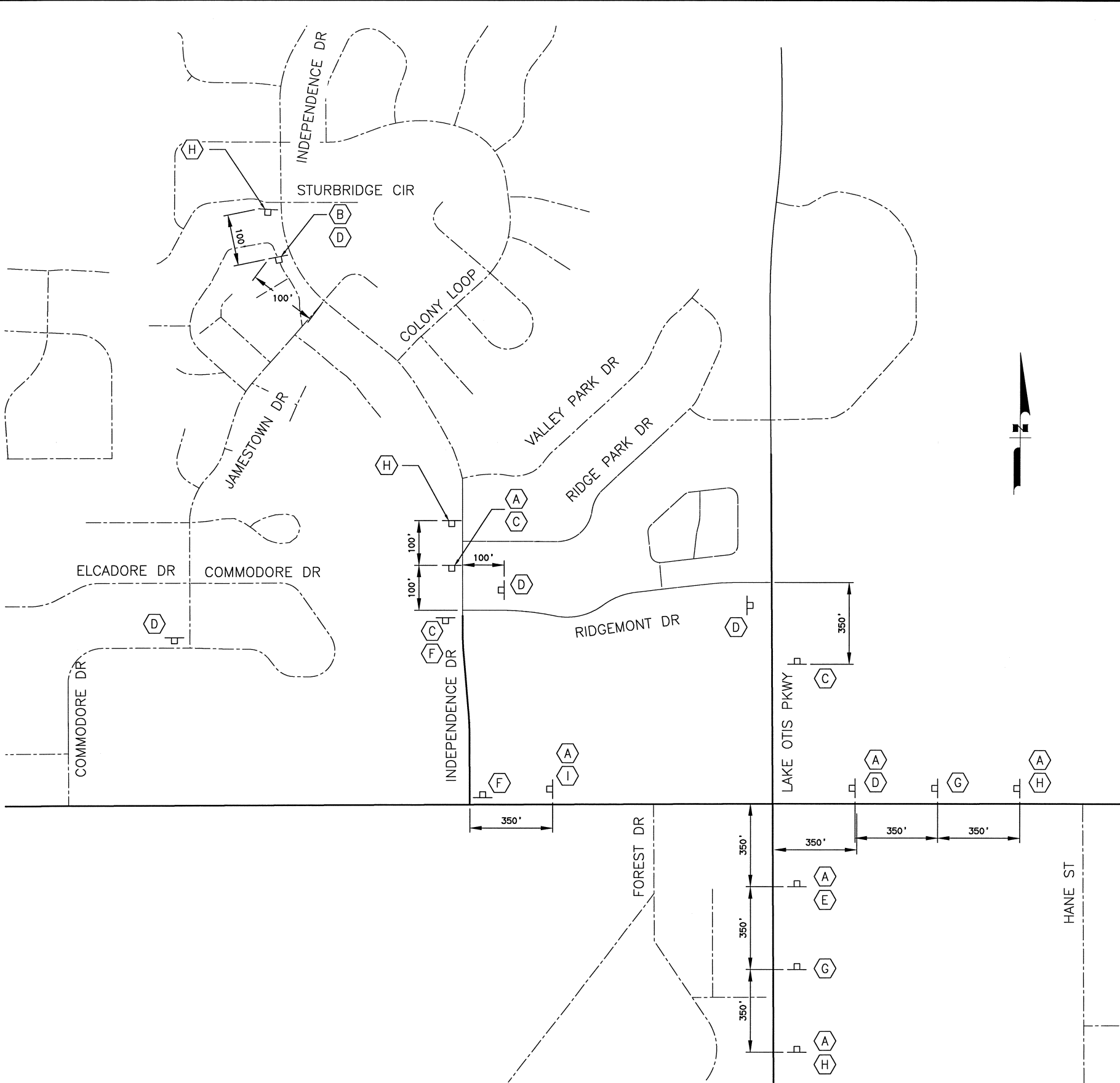
LAYOUT
JB

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1/10/2017 3:36 PM

TIME
1/10/2017 3:36 PM

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DRAWING LOCATION

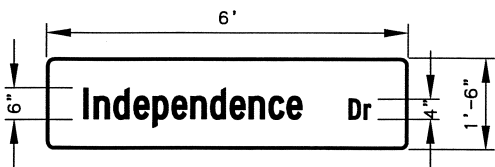
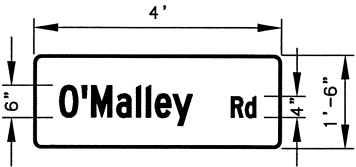


INDEPENDENCE DRIVE DETOUR

REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0512(008)/Z538040000	2016	J8	J9

SIGN SUMMARY	
A	Independence Dr
B	O'Malley Rd
C	DETOUR ←
D	DETOUR →
E	DETOUR ↑
F	ROAD CLOSED
G	DETOUR AHEAD
H	ROAD CLOSED AHEAD
I	NO RIGHT TURN



PROJECT SIGN DETAIL

DETOUR NOTE:

1. STREET SIGNS TO HAVE ORANGE BACKGROUND AND BLACK TEXT.

DESIGNED BY: JH
CHECKED BY: JH
DATE: 11/13/2013
SCALE: J9
LAYOUT: 1/9/2017 9:05 AM
DATE: 11/13/2013
TIME: 9:05 AM
DRAWING LOCATION: W:\Projects\0'Malley Reconst-53804\0'Malley Reconst-53804\Drawings\16 TOP-DEVICES.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
11/13/2013	CENTRAL REGION DETAIL		ALASKA	0512(008)/Z538040000	2016	J9	J9

NOTES:

1. TRAFFIC CONTROL DEVICES REQUIRED BY THE GUIDELINES ON THIS SHEET ARE INTENDED FOR CONDITIONS WHICH WILL BE IN PLACE LONGER THAN ONE CONTINUOUS WORK SHIFT. AN APPROVED TRAFFIC CONTROL PLAN IS REQUIRED PRIOR TO BEGINNING WORK.
2. THE GROUND CROSS SECTION AT A LOCATION BEFORE CONSTRUCTION DETERMINES WHETHER TRAFFIC CONTROL DEVICES ARE NEEDED AT THE SAME LOCATION DURING CONSTRUCTION.
3. GUARDRAIL EXISTING AT A LOCATION BEFORE CONSTRUCTION SHALL REMAIN IN PLACE DURING CONSTRUCTION OR UNTIL APPROVED ALTERNATE DEVICES ARE INSTALLED.
4. INSTALL TRAFFIC CONTROL DEVICES BETWEEN THE EDGE OF TRAVELED WAY AND THE WORK AREA ON ANY ROADWAY OPENED TO TRAFFIC WHEN REQUIRED BY THIS DRAWING.
5. EXISTING ROADWAY ALIGNMENTS INSTALL TRAFFIC CONTROL DEVICES WHEN WORK OCCURS IN THE DEVICES REQUIRED AREAS SHOWN ON THIS DRAWING.
6. FOR DETOURS, TEMPORARY ROADWAYS, OR NEW ROADWAYS NOT YET COMPLETE, INSTALL TRAFFIC CONTROL DEVICES WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:
 - A. THE HORIZONTAL OR VERTICAL CURVATURE IS MORE SEVERE THAN BEFORE CONSTRUCTION BEGAN.
 - B. THE ROADWAY OR SHOULDER WIDTH IS LESS THAN BEFORE CONSTRUCTION BEGAN.
 - C. THE BACKSLOPE OR FORESLOPE IS STEEPER THAN BEFORE CONSTRUCTION BEGAN.
 - D. THE HEIGHT OF THE FORESLOPE IS GREATER THAN BEFORE CONSTRUCTION BEGAN.
7. DROPOFFS:

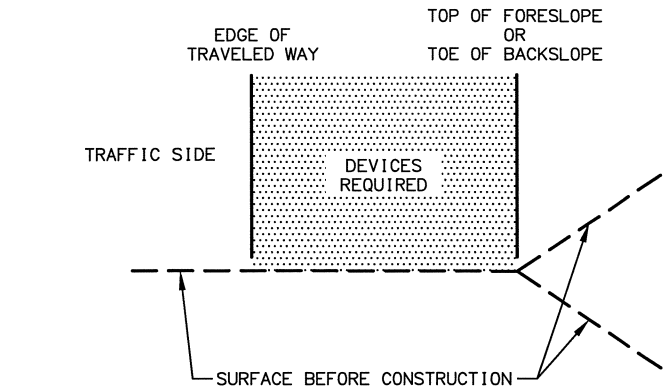
INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE FORESLOPE SECTION DETAIL AND TABLE 1.
8. ON ANY NEWLY CONSTRUCTED SLOPE STEEPER THAN 4:1 TO 3:1 PROVIDE A TEN FOOT FLAT RECOVERY AREA AT THE TOE OF SLOPE OR INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE FORESLOPE SECTION DETAIL.
9. TRAFFIC CONTROL DEVICE REQUIREMENTS:
 - A. ON ROADWAYS WITH A SPEED LIMIT GREATER THAN 40 MILES PER HOUR OR AVERAGE DAILY TRAFFIC VOLUME GREATER THAN 4000 VEHICLES PER DAY INSTALL TEMPORARY PORTABLE CONCRETE BARRIER OR TEMPORARY GUARDRAIL. ON MULTI-LANE ROADWAYS, CLOSE THE LANE CLOSEST TO THE WORK AREA AND INSTALL DRUMS.

TERMINATE RUNS OF TEMPORARY PORTABLE CONCRETE BARRIER USING ONE OF THE FOLLOWING THREE METHODS:

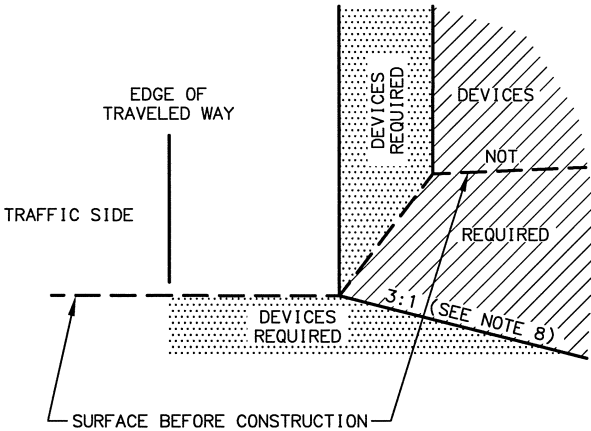
 - I. TEMPORARY CRASH ATTENUATOR.
 - II. RIGID TO SEMI-RIGID GUARDRAIL TRANSITION WITH SLOTTED RAIL TERMINAL OR OTHER APPROVED CRASHWORTHY END TREATMENT.
 - III. FLARE THE ENDS OF THE TEMPORARY BARRIER AWAY FROM THE ROADWAY AT A RATE OF 15:1 ON A TRANSVERSE SLOPE OF 10:1 OR FLATTER TO THE OUTSIDE EDGE OF THE CLEAR ZONE AND INSTALL A SLOPING END TREATMENT, PER STD. DWG G-46.11.

TERMINATE RUNS OF TEMPORARY GUARDRAIL USING EITHER OF THE FOLLOWING TWO METHODS:

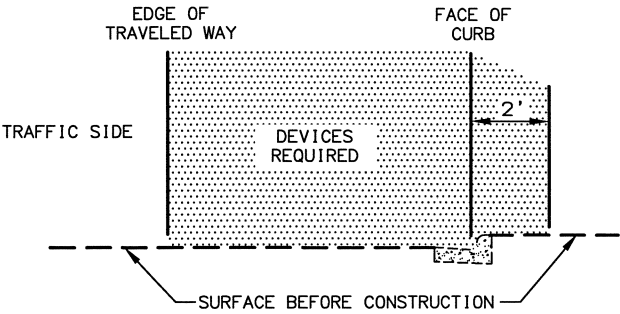
 - I. SLOTTED RAIL TERMINAL OR OTHER APPROVED CRASHWORTHY END TREATMENT.
 - II. FLARE THE ENDS OF THE TEMPORARY GUARDRAIL AWAY FROM THE ROADWAY AT A RATE OF 15:1 ON TRANSVERSE SLOPE OF 10:1 OR FLATTER TO THE OUTSIDE EDGE OF THE CLEAR ZONE.
 - B. ON ALL OTHER ROADWAYS INSTALL TYPE II BARRICADES, DRUMS OR DELINEATORS WHEN DEVICES ARE REQUIRED. SPACE THE DEVICES IN ACCORDANCE WITH THE REQUIREMENTS FOR SPACING TYPE II BARRICADES AND DRUMS SET FORTH IN THE ALASKA TRAFFIC MANUAL.
10. DO NOT CONSTRUCT VERTICAL DROP OFF'S GREATER THAN 1.5" WITHIN THE TRAFFIC LANE OR ACTIVE WHEEL TRACK. PROVIDE 2' OF SHY DISTANCE FROM EDGE OF ALL TRAFFIC CONTROL DEVICES TO THE EDGE OF THE TRAVELED WAY.



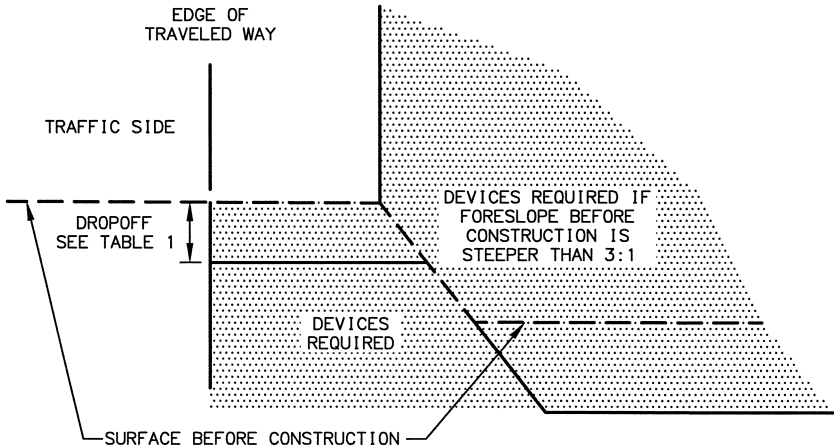
EMBANKMENT SECTION



BACKSLOPE SECTION



CURB AND GUTTER SECTION



FORESLOPE SECTION

LEGEND

- WORK AREA WHERE TRAFFIC CONTROL DEVICES ARE REQUIRED
- WORK AREA WHERE TRAFFIC CONTROL DEVICES ARE NOT REQUIRED
- SURFACE BEFORE CONSTRUCTION
- CONSTRUCTION AREA BOUNDARY

TABLE 1 TRAFFIC CONTROL DEVICES REQUIRED FOR VERTICAL DROPOFFS ≤ 4 FEET FROM TRAVELED WAY*			
ROADWAY TYPE	DROPOFF ≤ 2"	2" < DROPOFF ≤ 12"	DROPOFF ≥ 12"
AVERAGE DAILY TRAFFIC > 4000 OR SPEED > 40 MPH	TAPER ASPHALT AT 1:1 OR ~45°	TYPE II BARRICADES OR DRUMS	TEMPORARY PORTABLE CONCRETE BARRIER OR TEMPORARY GUARDRAIL
ALL OTHER ROADWAYS	NONE REQUIRED	TUBULAR CANDLES OR DELINEATORS	TYPE II BARRICADES OR DRUMS

* SPACE THE DEVICES IN ACCORDANCE WITH REQUIREMENTS FOR SPACING TYPE II BARRICADES AND DRUMS SET FORTH IN THE ALASKA TRAFFIC MANUAL.

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SEWARD HWY TO LIVINGSTON ST

TRAFFIC CONTROL DEVICES
FOR ROADSIDES