

FILE ID: PWISEFILE\DM501275

DATE/TIME

A1

LAYOUT

A1

DESIGNED

JK

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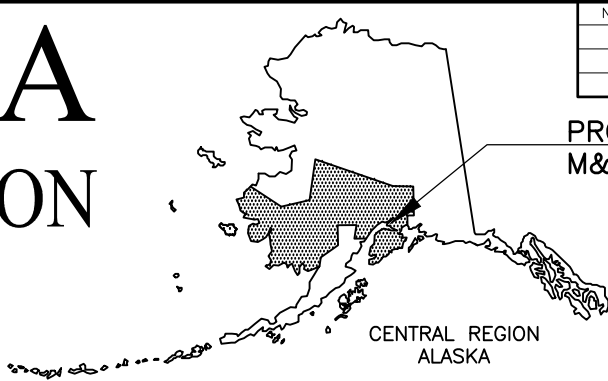
DG

DRAFTED

DJ/JG

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES



NO.	DATE	REVISION

PROJECT LOCATION
M&O STATION: ANCHORAGE

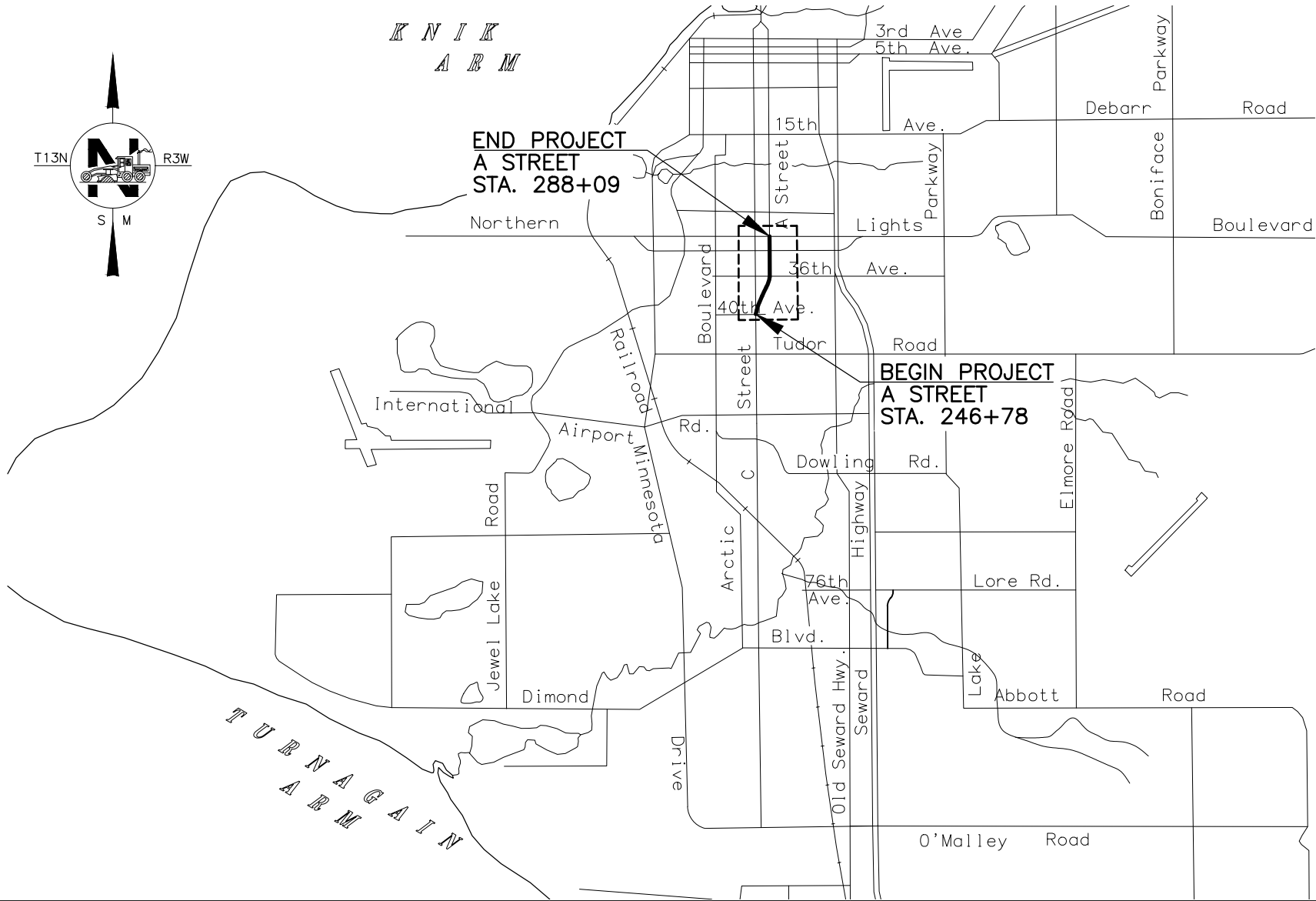
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0527030/CFHWY00223	2020	A1	A6
ROUTE ID	2281101X000	MILEPOINT	0.266–1.036	
LATITUDE	61.187900	LONGITUDE	–149.882700	

PROPOSED HIGHWAY PROJECT

A STREET: NORTHERN LIGHTS BLVD TO 40TH AVE PAVEMENT PRESERVATION

PROJECT NO. 0527030/CFHWY00223

PLANING, PAVING, DRAINAGE, SIGNALIZATION, SIGNING, AND STRIPING



PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
A STREET MP 0.26–1.03	43–49 FT	0.770 MILES

DESIGN DESIGNATIONS			
ROADWAY	FUNCTIONAL CLASS	AADT (2019)	DESIGN SPEED
A STRET MP 0.26–1.03	PRINCIPAL ARTERIAL	14,551	45 MPH

PLANS DEVELOPED BY: LOUNSBURY & ASSOCIATES INC.

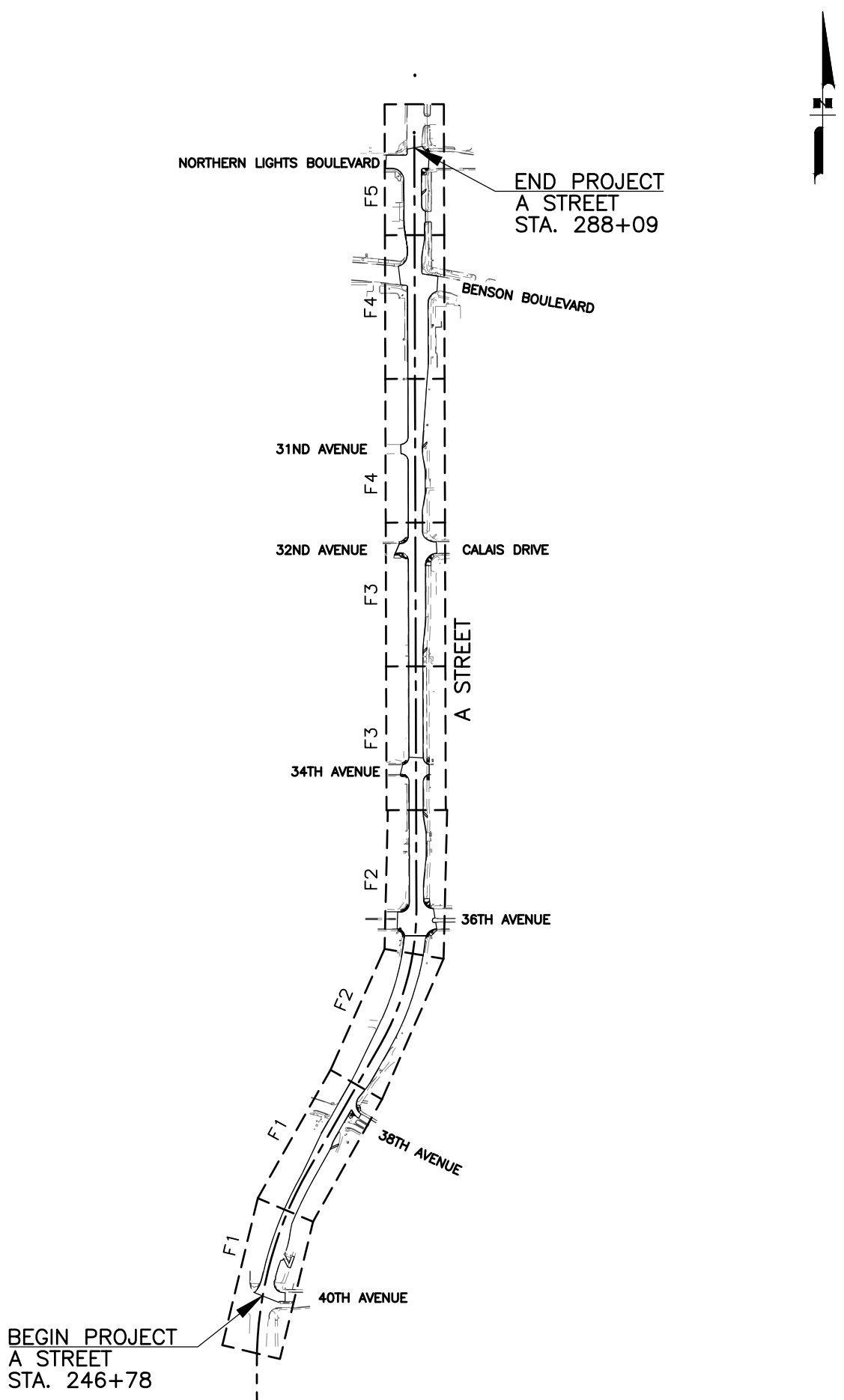
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
4111 AVIATION AVENUE, ANCHORAGE, AK 99502
(907)269–0590

APPROVED:

REGIONAL PRE–CONSTRUCTION ENGINEER DATE

CONCUR:

REGIONAL CONSTRUCTION ENGINEER DATE



GENERAL NOTES:

- 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.
- THE ROW LINES SHOWN WERE DRAWN ON THE PLANS USING INFORMATION FROM DOT&PF, PLATTED SUBDIVISIONS, AND SURVEYED MONUMENTS ON THE GROUND. THE ROW LINES WERE INSERTED USING A COMMON COORDINATE SYSTEM.
- ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
- CLEARING LIMITS SHALL BE WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- PLACE 4" TOPSOIL AND SEED ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
- 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.
- ADJUST ALL PAVEMENT PENETRATIONS TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.

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.

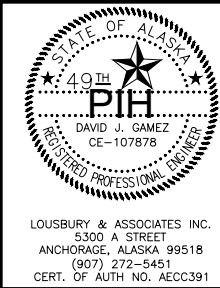
THERE SHALL BE NO PAYMENT FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST PAVEMENT PENETRATIONS TO FINAL GRADE.
- PROVIDE ADA COMPLIANT PEDESTRIAN TRAFFIC CONTROL DEVICES FOR PEDESTRIAN DETOURS.
- CONSTRUCT RAMP RUNS, LANDINGS, FLARES, AND SIDEWALK EXTENSIONS SHOWN IN THE PLANS USING 4" CONCRETE REGARDLESS OF WHETHER THE EXISTING SIDEWALK/PATHWAY IS ASPHALT OR CONCRETE.
- CONSTRUCT CURB RAMPS TO AVOID IMPACTING SIGNAL POLE FOUNDATIONS. DO NOT COVER SIGNAL POLE FOUNDATION BOLTS AND BASE PLATES WITH TOPSOIL.
- ALL TYPE "A" INLET BOXES SHALL HAVE MINIMUM 18" SUMPS.

ABBREVIATIONS

&	AND
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ADA	AMERICANS WITH DISABILITIES ACT
ASP	ALASKA STANDARD PLANS
AVE	AVENUE
BLVD	BOULEVARD
CCTV	CLOSED CIRCUIT TELEVISION
CIPP	CURED IN PLACE PIPE
CMP	CORRUGATED METAL PIPE
DOT&PF	DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DWT	DETECTABLE WARNING TILE
EA	EACH
EOP	EDGE OF PAVEMENT
FRP	FIBERGLASS REINFORCED PIPE
FT	FEET
HMA	HOT MIXED ASPHALT
IN	INCH
LF	LINEAR FOOT
LT	LEFT
MB	MAILBOX
ME	MATCH EXISTING
MPH	MILES PER HOUR
NO	NUMBER
ROW	RIGHT OF WAY

ABBREVIATIONS

RT	RIGHT
SD	STORM DRAIN
SS	SANITARY SEWER
ST	STREET
SW	SIDEWALK
SY	SQUARE YARD
TBC	TOP BACK OF CURB
TYP	TYPICAL



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

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

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT, INDEX, ABBREVIATIONS, AND GENERAL NOTES
A3	LEGEND
A4-A6	SURVEY CONTROL SHEET
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D3	SUMMARY TABLES
E1-E7	STORM DRAIN DETAILS
E8-E9	BIKE AND CURB RAMP DETAILS
F1-F5	PLAN SHEETS
G1-G4	GRADING PLANS
H1	TRAFFIC LEGEND AND NOTES
H2-H13	TRAFFIC DETAILS
H14-H18	SIGNING AND STRIPING
H19-H24	SIGNALIZATION PLANS, PROFILES, AND WIRING DIAGRAMS
H25-H27	ELECTRICAL SUMMARIES AND DETAILS
H28-H38	SIGN SUMMARY TABLES

THE FOLLOWING ALASKA STANDARD PLANS
APPLY TO THIS PROJECT:

C-04.12, C-05.20
D-01.02, D-04.21, D-20.05, D-22.01, D-23.01, D-24.00,
D-25.00, D-26.04, D-44.12
I-20.20, I-21.11, I-22.11
S-00.11, S-05.01, S-23.00, S-30.04, S-31.01, S-32.00, S-52.01
T-05.10, T-20.04, T-21.03, T-22.04, T-23.00

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.

FILE ID: \P\W\SE\FILE\DM501275

DATE/TIME 6/15/2020 1:08 PM

LAYOUT

A3

DESIGNED

CHECKED

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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		
REMOVAL OF PAVEMENT		
PAVEMENT PLANING		
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		

TOPOGRAPHY

EXISTING

EXISTING

PROPOSED

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

UTILITIES

EXISTING

PROPOSED

STORM DRAIN		
CIPP LINIG		
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		
MISCELLANEOUS UTILITY CABINET		

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

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		



LOUSBURY & ASSOCIATES INC.
5300 A STREET
ANCHORAGE, ALASKA 99518
(907) 272-5451
CERT. OF AUTH NO. AECC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

LEGEND

FILE A STREET_SCS.DWG
DATE/TIME 6/9/2020 3:48 PM
LAYOUT
DESIGNED
CHECKED JMG
DRAFTED MLH

SURVEY NOTES

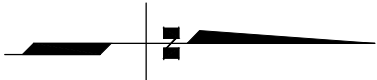
- ALL DIMENSIONS AND COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
- THE FIELD SURVEY WAS CONDUCTED BY LOUNSBURY AND ASSOCIATES, INC. FROM MAY – JUNE 2019 & MAY 2020.
- PROJECT HORIZONTAL CONTROL WAS SURVEYED USING NETWORKED STATIC GPS TECHNIQUES. GPS MEASUREMENTS WERE PERFORMED USING TRIMBLE R8 AND R10 RECEIVERS. THE STATIC NETWORK WAS PROCESSED USING TOPCON MAGNET VER. 5.0.1 SOFTWARE.
- ALL ELEVATIONS MUST BE FIELD VERIFIED BEFORE USE.
- WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS, OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 34.65.040).
- ADD A PERMANENT RISER TO EACH MONUMENT CASE AT A SUFFICIENT HEIGHT SUCH THAT THE TOP OF THE MONUMENT LID MATCHES FINISHED GRADE.
- THE PROJECT ENGINEER WILL NOTIFY THE DEPARTMENT'S SURVEY MANAGER BEFORE TERMINATION OF TRAFFIC CONTROL, TO ALLOW DEPARTMENT SURVEYOR TO SAFELY CHECK AND/OR RESET ANY SURVEY MONUMENTS THAT MAY HAVE BEEN DISTURBED.
- THIS SURVEY CONTROL SHEET IS BASED ON THE SURVEY CONTROL DIAGRAM RECORDED AS PLAT# 2019-70, ANCHORAGE RECORDING DISTRICT.

VERTICAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
601	331141	348184	106.10	Fd BC: BM CB 7C	276+66	520 Lt.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2019	A4	A6

LEGEND

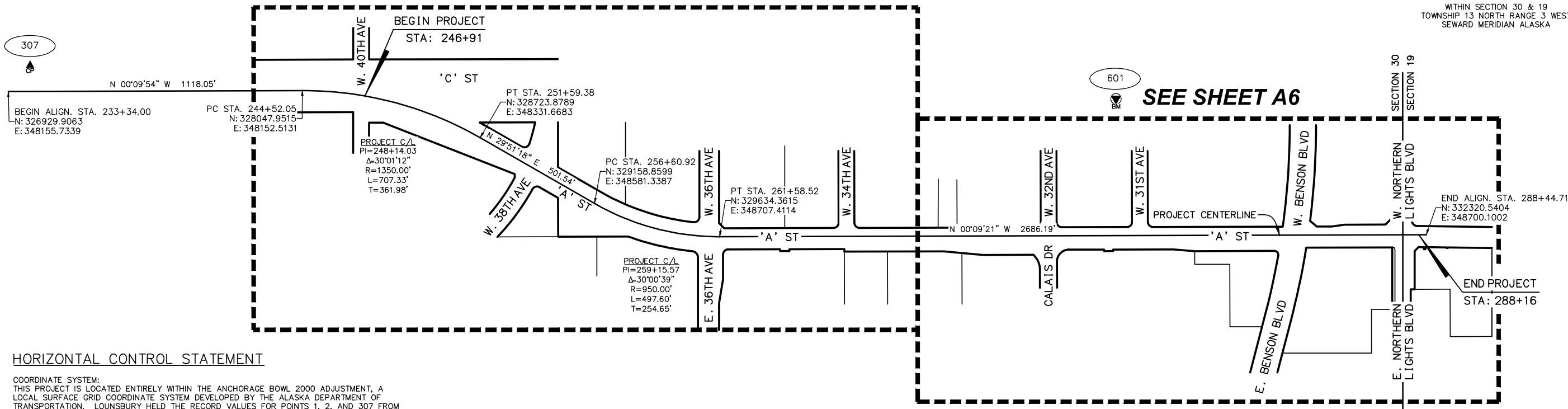
- BENCH MARK
- CONTROL POINT
- POINT NUMBER IDENTIFIER
- ROW LINE
- PROPERTY LINE
- SECTION LINE



WITHIN SECTION 30 & 19
TOWNSHIP 13 NORTH RANGE 3 WEST
SEWARD MERIDIAN ALASKA

PROJECT OVERVIEW

1" = 200'



HORIZONTAL CONTROL STATEMENT

COORDINATE SYSTEM:
THIS PROJECT IS LOCATED ENTIRELY WITHIN THE ANCHORAGE BOWL 2000 ADJUSTMENT, A LOCAL SURFACE GRID COORDINATE SYSTEM DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION. LOUNSBURY HELD THE RECORD VALUES FOR POINTS 1, 2, AND 307 FROM THE SURVEY CONTROL SHEET FOR '0527023 / 56000 - HHE-0527(18)/51331 AMATS: A STREET RESURFACING: NORTHERN LIGHTS BOULEVARD TO 9TH AVENUE, HSIP: 16TH AVE. AT A STREET CHANNELIZATION IMP.', DATED 4/11/14, FIXED AT THEIR PUBLISHED COORDINATES.

BASIS OF COORDINATES:
THE BASIS OF COORDINATES IS NGS STATION O'MALLEY, LOCATED NEAR THE INTERSECTION OF THE NEW SEWARD HIGHWAY AND O'MALLEY ROAD. SAID STATION HAS ANCHORAGE BOWL 2000 COORDINATES OF 303939.2310 N, 353362.5446 E.

BASIS OF BEARINGS:
THE BASIS OF BEARINGS IS A LOCAL PLANE BEARING BETWEEN NGS STATION O'MALLEY AND NGS STATION LOOP 2 USE RM 3 1964. NGS STATION LOOP 2 USE RM 3 1964 BEARS N 01°43'26.4"E A DISTANCE OF 49488.4476 FEET FROM NGS STATION O'MALLEY. NGS STATION LOOP 2 USE RM 3 1964 HAS ANCHORAGE BOWL 2000 COORDINATES OF 353405.2778 N, 354851.3982 E.

TRANSLATION PARAMETERS:
TO CONVERT THE LOCAL COORDINATES TO NAD83 (92) STATE PLANE COORDINATES EXPRESSED IN U.S. SURVEY FEET, TRANSLATE USING +2296868.6878 N USF, +1312517.4904 E USF, AND SCALE USING 0.9998910192.

VERTICAL CONTROL STATEMENT

DATUM IS MUNICIPALITY OF ANCHORAGE 1972 NGS ADJUSTMENT. BENCHMARKS ARE:

'GAAB 137A', A 2 1/2" BRASS CAP VERTICALLY ON THE N.W. CORNER OF BRICK BUILDING AT 4000 B STREET; ELEVATION = 108.23 FEET.

'CB 7C', A 2 1/2" BRASS CAP VERTICALLY ON THE NORTHWEST CORNER OF THE NORTHRIM BANK BUILDING AT 31ST AND C STREET. ELEVATION = 106.10 FEET.

'GAAB 102', A 2 1/2" BRASS CAP HORIZONTALLY IN THE FIRST NATIONAL BANK ALASKA TELLER ISLAND; ELEVATION = 100.64 FEET.

HORIZONTAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
307	327012.95	348056.20	----	Fd Rbr/PC[KARABELNIKOFF] CP 307	234+17.33	99.29 Lt.



U.S. SURVEY FEET



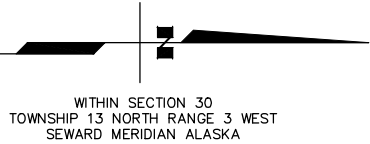
LOUNSBURY & ASSOCIATES, INC.
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE
PAVEMENT PRESERVATION**

SURVEY CONTROL

FILE A STREET_SCS.DWG DATE/TIME 6/9/2020 3:48 PM LAYOUT CHECKED JMG DRAFTED MLH

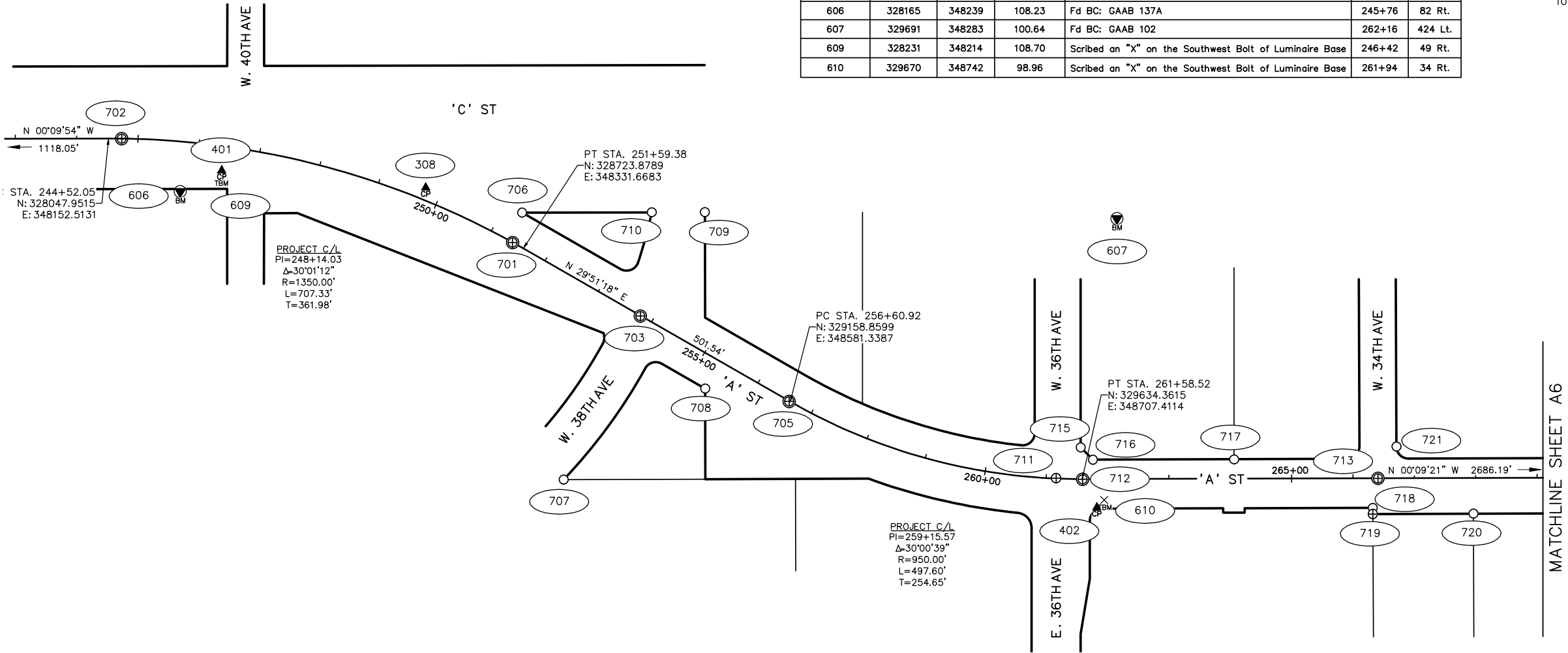
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2019	A5	A6



VERTICAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
606	328165	348239	108.23	Fd BC: GAAB 137A	245+76	82 Rt.
607	329691	348283	100.64	Fd BC: GAAB 102	262+16	424 Lt.
609	328231	348214	108.70	Scribed an "X" on the Southwest Bolt of Luminaire Base	246+42	49 Rt.
610	329670	348742	98.96	Scribed an "X" on the Southwest Bolt of Luminaire Base	261+94	34 Rt.

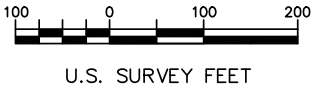
LEGEND

- ⊕ CENTERLINE MONUMENT
- ⊕ PRIMARY MONUMENT
- MISC. CORNER
- ⬆ CONTROL POINT
- ⬆ BENCH MARK
- ⊗ TEMPORARY BENCH MARK
- ### POINT NUMBER IDENTIFIER
- ROW LINE
- PROPERTY LINE



RECOVERED MONUMENTS SHOWN THIS SHEET					
POINT NO.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
702	328069.2153	348152.8100	Fd AM/Bx: PC 244+78.15 A Street	244+73.32	0.19 Rt.
706	328721.7480	348273.2772	Fd Rbr/PC[10392]: S L4 Premera	251+29.56	49.92 Lt.
701	328706.2521	348322.0430	Fd AM/Bx: PT 251+45.05 A Street	251+39.30	0.28 Rt.
710	328933.1358	348272.6968	Fd Rbr: NW L1 Premera	253+11.51	155.31 Lt.
703	328914.5683	348441.8079	Fd BC/Bx[DOT]: SI 253+85.26 A Street & 38th Avenue	253+79.59	0.60 Rt.
709	329019.6693	348272.4723	Fd Rbr: NW Premera	253+86.45	198.59 Lt.
707	328789.4941	348708.2391	Fd Rbr: S L1 Premera	254+03.75	293.93 Rt.
708	329020.1070	348559.8949	Fd Rbr: NW L1 Premera	255+29.91	50.47 Rt.
705	329157.0400	348580.8629	Fd BC/Bx[SOA]: PC 256+64.78 A Street	256+59.11	0.49 Rt.
711	329592.0419	348705.8567	Fd AC/Bx[MOA]: C1/4 S30 *T13N R3W	261+16.16	0.73 Lt.
715	329632.0182	348655.8129	Fd AC[6915]: SE PC Tract F Calais	261+56.19	51.60 Lt.
712	329635.2763	348707.7692	Fd BC/Bx[DOT]: PT 261+65.25 A Street	261+59.43	0.36 Rt.
716	329652.0556	348675.7881	Fd AC[6915]: SE PT Tract F Calais	261+76.30	31.57 Lt.
717	329882.2392	348675.4325	Fd AC: NE Tr F Calais	264+06.48	31.30 Lt.
718	330108.1058	348754.3457	Fd AC: NW Tr G-1 Calais	266+32.14	48.22 Rt.
719	330108.2154	348764.3375	Fd AM[6714]: SW Tr D-12B-2B Calais	266+32.22	58.22 Rt.
713	330116.6195	348706.3467	Fd BC/Bx[SOA]: SI 266+46.80 A Street & 34th Avenue	266+40.78	0.25 Rt.
721	330146.6793	348654.4018	Fd Rbr/PC[6714]: SE L D-13B Calais	266+70.98	51.61 Lt.
720	330272.2119	348763.7997	Fd AC[6714]: NW Tr D-12B-2B Calais	267+96.22	58.12 Rt.

HORIZONTAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
308	328564.76	348232.51	106.73	Fd Rbr: TS C-12	249+74.12	19.66 Lt.
401	328232.30	348204.56	108.37	Set Rbr/PC: CP-401	246+42.44	39.57 Rt.
402	329658.41	348753.71	98.58	Set Rbr/PC: CP-402	261+82.45	46.36 Rt.

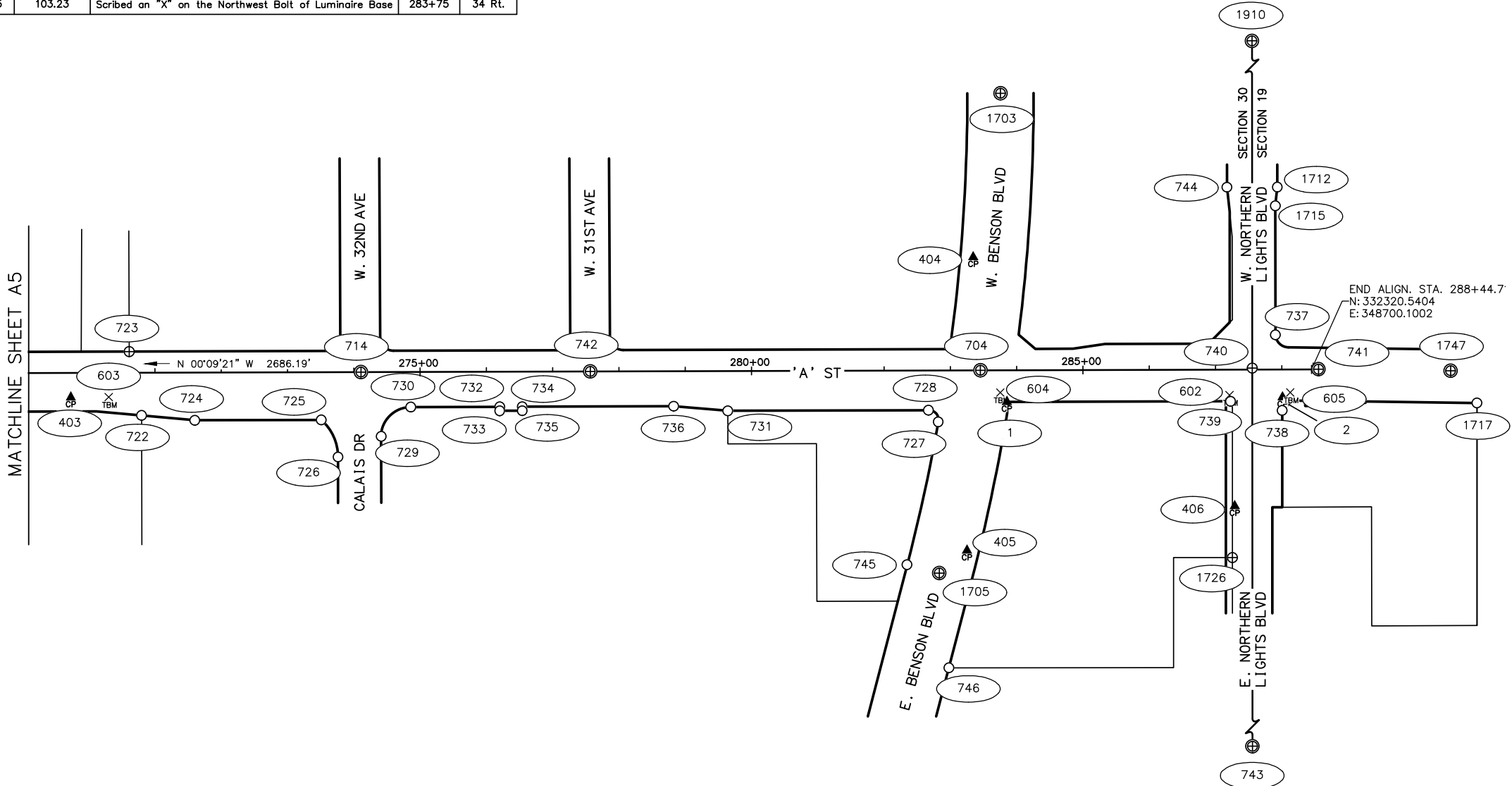


STATE OF ALASKA
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AND PUBLIC FACILITIES
**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE
PAVEMENT PRESERVATION**
SURVEY CONTROL

FILE A STREET_SCS.DWG DATE/TIME 6/9/2020 3:48 PM LAYOUT CHECKED JMG DRAFTED MLH

VERTICAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
603	330506	348742	99.73	Scribed an "X" on the Easterly Bolt of Luminaire Base	270+30	37 Rt.
604	331851	348735	103.23	Scribed an "X" on the Northwest Bolt of Luminaire Base	283+75	34 Rt.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2019	A6	A6



WITHIN SECTION 30 & 19
TOWNSHIP 13 NORTH RANGE 3 WEST
SEWARD MERIDIAN ALASKA

LEGEND

- CENTERLINE MONUMENT
- PRIMARY MONUMENT
- MISC. CORNER
- CONTROL POINT
- TEMPORARY BENCH MARK
- POINT NUMBER IDENTIFIER
- ROW LINE
- PROPERTY LINE
- SECTION LINE

RECOVERED MONUMENTS SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET	
1717	332570.0798	348750.5764	Check Shot Fd AC[8202]: NW L10A B5 Smith	N/A	N/A	
741	332331.1087	348699.7332	Fd BC/Bx: CL PI 288+60.69 A Street / Northern Lights Boulevard	N/A	N/A	
1747	332530.3391	348702.0657	Fd BC/Bx[DOT]: PI 290+59.86 A Street	N/A	N/A	
723	330536.8429	348673.1184	Fd AM[6714]: SE Tr A1 Calais	270+61.09	31.84 Lt.	
722	330555.5283	348769.4428	Fd AC[6714]: NW Tr D-12B-2A Calais	270+79.52	64.54 Rt.	
724	330635.8431	348776.8643	Fd AC[6714]: W Tr D-12B-1 Calais	271+59.81	72.18 Rt.	
725	330826.6625	348776.2392	Fd AC[6714]: WNW Tr D-12B-1 Calais	273+50.63	72.07 Rt.	
726	330851.9514	348832.0724	Fd AC[6714]: NWN Tr D-12B-1 Calais	273+75.77	127.97 Rt.	
714	330886.4285	348704.0768	Fd BC/Bx[SOA]: SI 274+15.48 A Street & 32nd Avenue	274+10.59	0.07 Rt.	
729	330917.1476	348800.9649	Fd Pipe: SWS Tr D-11C Calais	274+41.05	97.04 Rt.	
730	330961.6672	348756.7978	Fd Rbr: WSW Tr D-11C Calais	274+85.69	53.00 Rt.	
733	331095.8269	348762.4098	Fd Rbr/PC[8535]: SE Ang Tr D-11C Calais	276+19.83	58.98 Rt.	
732	331095.8358	348756.3953	Fd Rbr/PC[8535]: SW Ang Tr D-11C Calais	276+19.86	52.96 Rt.	
735	331129.8680	348762.3093	Fd Rbr/PC[8535]: NE Ang Tr D-11C Calais	276+53.87	58.97 Rt.	
734	331129.8641	348756.2678	Fd Rbr/PC[8535]: NW Ang Tr D-11C Calais	276+53.89	52.93 Rt.	
742	331232.4321	348703.0564	Fd BC/Bx[SOA]: SI 277+61.52 A Street & 31st Avenue	277+56.60	0.01 Lt.	
736	331358.3247	348755.4988	Fd Rbr/PC[8535]: W Tr D-11C Calais	278+82.35	52.78 Rt.	

RECOVERED MONUMENTS SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET	
731	331439.9412	348762.5290	Fd Rbr/PC[8535]: Tr D-11D Calais	279+63.94	60.03 Rt.	
745	331710.3198	348994.4806	Fd Rbr/PC[8535]: Nly PC Tr D-11D Calais	282+33.69	292.72 Rt.	
728	331742.6224	348761.5865	Fd Rbr/PC[8535]: WNW Tr D-11D Calais	282+66.63	59.91 Rt.	
727	331757.3870	348779.0870	Fd Rbr/PC[8535]: NWN Tr D-11D Calais	282+81.34	77.45 Rt.	
1705	331758.9915	349007.0405	Check Shot Fd Rbr: PC 104+00.04 Benson Boulevard	282+82.33	305.41 Rt.	
746	331773.4878	349149.9472	Fd Rbr/AC[8535]: SW Tr D5-2A Calais	282+96.44	448.36 Rt.	
704	331821.0596	348701.2842	Fd AM/Bx[DOT]: SI 283+51.17 A Street & Benson Boulevard	283+45.23	0.18 Lt.	
1703	331851.3295	348283.6164	Fd Rbr: PC 96+68.80 Benson Boulevard	283+76.63	417.76 Lt.	
744	332192.9097	348425.2402	Fd AC[TNH]: Nly Ang Tr D-6-1 Calais	287+17.83	275.21 Lt.	
739	332198.4015	348748.1908	Fd Rbr: NW Tr D5-1 Calais	287+22.44	47.76 Rt.	
1726	332201.2048	348983.7836	Check Shot Fd AM[949]: NE Tract D5-1 Calais	287+24.60	283.36 Rt.	
743	332231.8221	350016.8823	Fd BC/Bx[COA]: E1/16 S19/30 *T13N R3W	287+52.41	1316.54 Rt.	
740	332231.1700	348698.0704	Fd BC/Bx: 1/4 S19/30 *T13N R3W	287+55.35	2.27 Lt.	
1910	332230.6491	348084.5885	Check Shot Fd AC/Bx[DOT]: SI Northern Lights Boulevard /C Street	287+56.49	615.75 Lt.	
737	332266.0983	348647.8867	Fd Rbr/PC: SE L1 B & J	287+90.41	52.36 Lt.	
1715	332265.9101	348453.2894	Check Shot Fd Rbr/PC[4094]: E Angle Point S Line L1 B&J	287+90.75	246.96 Lt.	
1712	332268.8912	348425.1373	Check Shot Fd Rbr: W Angle Point L1 B&J	287+93.81	275.10 Lt.	

HORIZONTAL CONTROL SHOWN THIS SHEET						
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
1	331860.92	348748.95	103.68	Fd Rbr/PC[DOT]: CP 1	283+84.95	47.60 Rt.
2	332276.84	348741.93	103.92	Fd Rbr/PC[DOT]: CP 2	288+00.90	41.71 Rt.
403	330448.86	348742.20	99.11	Set Rbr/PC: CP-403	269+72.92	37.01 Rt.
404	331810.19	348530.73	101.56	Set Magnail: CP-404	283+34.83	170.76 Lt.
405	331800.71	348973.10	103.38	Set Magnail: CP-405	283+24.14	271.58 Rt.
406	332204.62	348906.00	103.82	Set Magnail: CP-406	287+28.23	205.58 Rt.

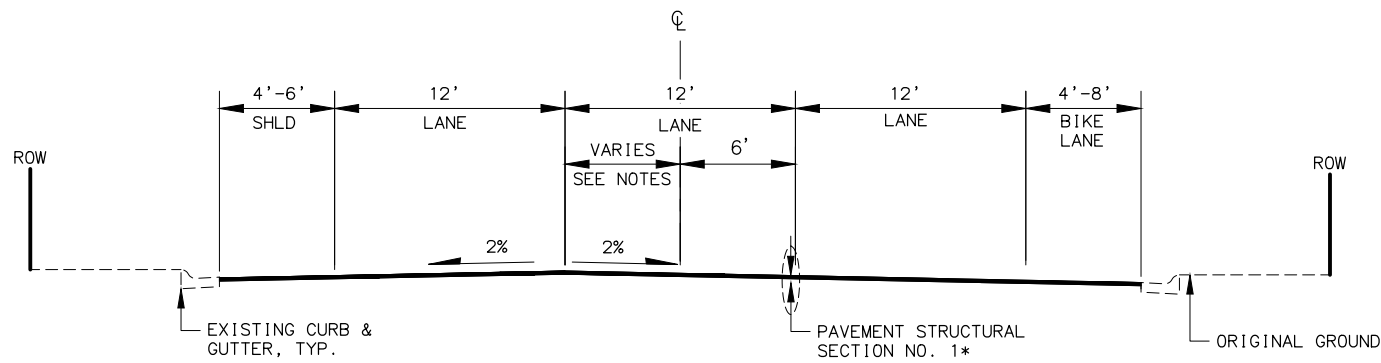
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U.S. SURVEY FEET



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE
PAVEMENT PRESERVATION**
SURVEY CONTROL

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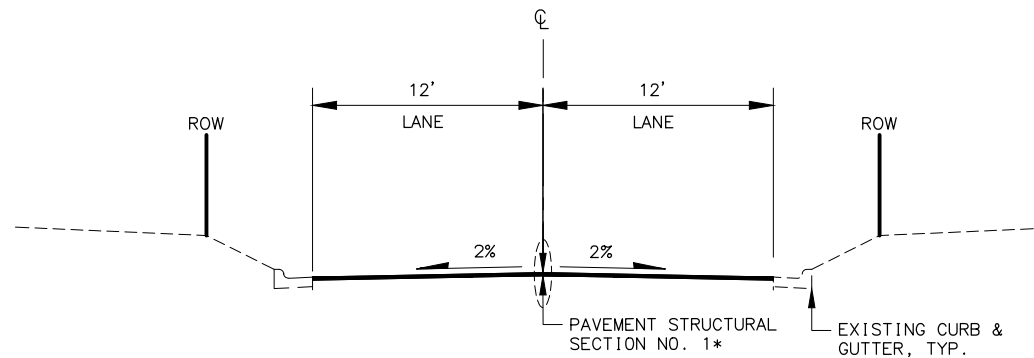
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	B1	B1



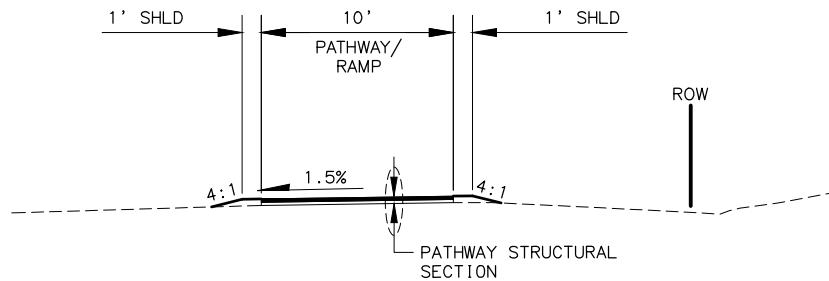
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STA. 246+91 TO STA. 287+86

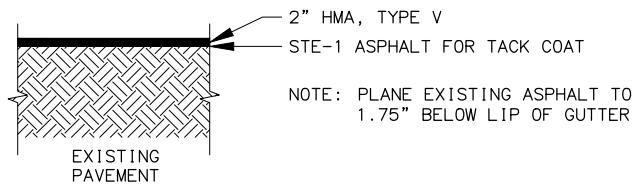
*CONSTRUCT PAVEMENT STRUCTURAL SECTION NO. 2 FROM STA. 251+35 TO 266+83



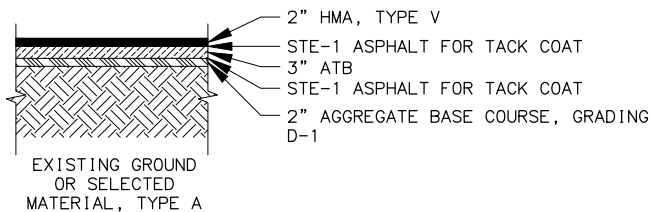
MINOR ROADWAYS



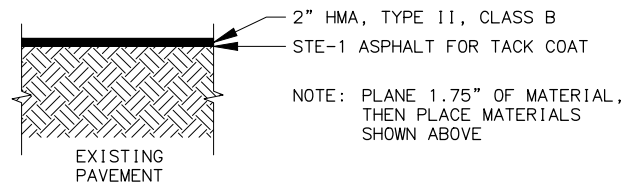
PATHWAY AND BUS STOP RAMP



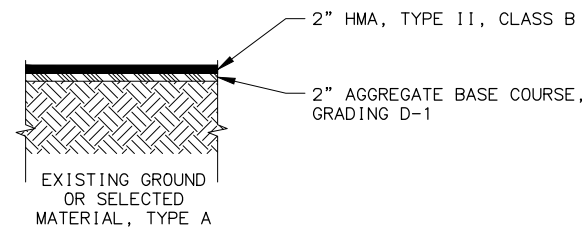
PAVEMENT STRUCTURAL SECTION NO. 1
N.T.S



PAVEMENT STRUCTURAL SECTION NO. 2
N.T.S



PAVEMENT STRUCTURAL SECTION NO. 3
N.T.S



PATHWAY STRUCTURAL SECTION
N.T.S

GENERAL NOTES:

1. 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.
2. LOCATE CROWN IN THE FIELD AND COMPLETE PLANING AND PAVING OPERATIONS TO RE-ESTABLISH CROWN IN PRESENT LOCATION.
3. FROM STA. 274+46 TO EOP, STRIPE LANES PER TYPICAL SECTION UNLESS DIMENSIONED OTHERWISE.
4. 4" TOPSOIL AND SEED ALL DISTURBED AREAS ADJACENT TO CURB RAMPS, PATHWAY, AND BUS STOP RAMP.



LOUSBURY & ASSOCIATES INC.
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ANCHORAGE, ALASKA 99518
(907) 272-5451
CERT. OF AUTH NO. AECC391

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**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

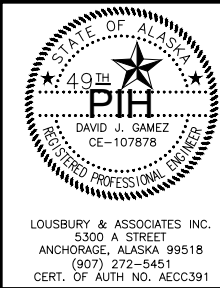
TYPICAL SECTIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	C1	C1

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201.0008.0000	GRUBBING	LUMP SUM	ALL REQ'D
202.0002.0000	REMOVAL OF PAVEMENT	SY	4,530
202.0003.0000	REMOVAL OF SIDEWALK	SY	430
202.0004.0000	REMOVAL OF CULVERT PIPE	LF	31
202.0009.0000	REMOVAL OF CURB AND GUTTER	LF	490
202.2023.0000	PAVEMENT PLANING	SQUARE YARD	23,520
203.0006.000A	BORROW, TYPE A	TON	130
204.0001.0000	STRUCTURE EXCAVATION	CY	70
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	500
306.0001.0000	ATB	TON	780
306.0002.5834	ASPHALT BINDER, GRADE PG 58-34	TON	42
401.0001.002B	HMA, TYPE II; CLASS B	TON	200
401.0004.5228	ASPHALT BINDER, GRADE PG 52-28	TON	20
401.0014.0000	JOINT ADHESIVE	LINEAR FOOT	13,100
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	11
408.2001.000V	HMA, TYPE V	TON	3,170
408.2004.5834	ASPHALT BINDER, GRADE PG 58-34E	TON	169
408.2008.000V	H MA PRICE ADJUSTMENT, TYPE V	CONTINGENT SUM	ALL REQ'D
603.2017.0000	CULVERT CLEANING	LINEAR FOOT	90
603.2019.0000	LINER FOR STORM DRAIN, CIPP - 18", 21", 24", 30", 36"	LINEAR FOOT	620
603.2020.0000	CLOSED-CIRCUIT TELEVISION (CCTV) INSPECTION POST CONSTRUCTION	LINEAR FOOT	700
603.2032.0024	CORRUGATED HDPE PIPE, 24 INCH	LINEAR FOOT	28
603.2034.0000	LINER, PREPARE PIPE	LINEAR FOOT	620
604.0003.0000	RECONSTRUCT EXISTING MANHOLE	EACH	6
604.0004.0000	ADJUST EXISTING MANHOLE	EACH	5
604.0010.0000	RECONSTRUCT INLET	EACH	16
608.0006.0000	CURB RAMP	EACH	23
608.2022.0000	BIKE RAMP	EACH	5
615.0001.0000	STANDARD SIGN	SQUARE FOOT	594
615.0002.0001	REMOVE AND RELOCATE SIGN	EACH	10
615.0006.0000	SALVAGE SIGN	EACH	161
615.2021.0000	BIKE LANE SIGNAGE	SQUARE FOOT	68
618.0005.0000	SEEDING	LUMP SUM	ALL REQ'D
620.0003.0000	TOPSOIL	LUMP SUM	ALL REQ'D
627.0010.0000	ADJUSTMENT OF VALVE BOX	EACH	24
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D
641.0002.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQ'D
641.0006.0000	WITHHOLDING	CONTINGENT SUM	ALL REQ'D
641.0007.0000	SWPPP MANAGER	LUMP SUM	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HOURL	50
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'D
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQ'D
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQ'D
643.0032.0000	FLAGGING	CONTINGENT SUM	ALL REQ'D
644.2004.0000	ENGINEERING COMMUNICATIONS	CONTINGENT SUM	ALL REQ'D
645.0001.0000	TRAINING PROGRAM TRAINEES / APPRENTICES	LABOR HOUR	350
646.0001.0000	CPM SCHEDULING	LUMP SUM	ALL REQ'D
660.0001.0001	TRAFFIC SIGNAL SYSTEM COMPLETE "A STREET AND BENSON BOULEVARD INTERSECTION"	LUMP SUM	ALL REQ'D
660.0001.0002	TRAFFIC SIGNAL SYSTEM COMPLETE "A STREET AND NORTHERN LIGHTS BOULEVARD INTERSECTION"	LUMP SUM	ALL REQ'D
660.2004.0000	ADJUST JUNCTION BOX	EACH	6
661.0001.0000	LOAD CENTER, TYPE 1	EACH	2
670.2006.0000	MMA PAVEMENT MARKINGS, LONGITUDINAL INLAID	LINEAR FOOT	13,390
670.2007.0000	MMA PAVEMENT MARKINGS, SYMBOLS AND ARROW(S) INLAID	EACH	25
670.2008.0000	MMA PAVEMENT MARKINGS, TRANSVERSE AND GORE INLAID	LINEAR FOOT	1,570
670.2016.0000	MMA PAVEMENT MARKINGS, INLAID BIKE SYMBOLS	EACH	13

TABLE OF ESTIMATING FACTORS		
ITEM NO.	PAY ITEM	ESTIMATING FACTOR
203.0006.000A	BORROW, TYPE A	145 LB/CF
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF
306.0001.0000	ATB	151 LB/CF
306.0002.5834	ASPHALT BINDER, GRADE PG 58-34E	5.3% OF TOTAL WEIGHT OF 306.0001.0000
401.0001.002B	HMA, TYPE II; CLASS B	151 LB/CF
401.0004.5228	ASPHALT BINDER, GRADE PG 52-28	5.3% OF TOTAL WEIGHT OF 401.0001.002B
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.000334 TON/SY



STATE OF ALASKA
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A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

ESTIMATE OF QUANTITIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	D1	D3

PAVEMENT REMOVAL & PLANING – 202.2002.0000, 202.2023.0000					
SHEET	STATION		202.0002.0000	202.2023.0000	REMARKS
	FROM	TO	REMOVAL AREA (SY)	PLANING AREA (SY)	
F1	BOP	255+00		4,728	
F2	255+00	260+63		4,341	
F2	260+63	265+00	3,316		
F3	265+00	266+83	1,214		
F3	266+83	275+00		5,169	
F4	275+00	285+00		6,916	
F5	285+00	EOP		2,364	
PAY ITEM QUANTITY:			4,530	23,520	

REMOVAL OF CURB AND GUTTER – 202.0009.0000					
SHEET	STATION		OFFSET	REMOVAL (LF)	REMARKS
	FROM	TO			
F1	252+69	252+76	RT	6	BIKE RAMP
F1	254+04	254+11	RT	16	
F1	254+23	254+39	RT	24	
F2	260+63	260+90	RT	46	
F2	261+60	261+91	RT	43	
F2	260+54	260+80	LT	37	
F2	261+47	261+69	LT	36	
F2	264+88	264+95	RT	7	BIKE RAMP
F3	266+19	266+22	RT	9	
F3	266+59	266+62	RT	9	
F3	266+14	266+23	LT	26	
F3	266+59	266+71	LT	21	
F3	270+48	270+55	RT	7	BIKE RAMP
F3	273+50	273+89	RT	50	
F3	273+76	273+87	LT	54	
F3	274+29	274+48	LT	38	
F4	277+51	277+58	RT	7	BIKE RAMP
F5	286+39	286+46	RT	7	BIKE RAMP
F5	287+09	287+24	RT	15	
F5	287+31	287+31	RT	13	
F5	287+92	287+96	RT	13	
PAY ITEM QUANTITY:				490	

REMOVAL OF SIDEWALK – 202.0003.0000					
SHEET	STATION		OFFSET	REMOVAL (SY)	REMARKS
	FROM	TO			
F1	254+27	254+42	RT	23	CURB RAMP
F2	260+63	260+87	RT	44	CURB RAMP
F2	261+64	261+91	RT	56	CURB RAMP
F2	260+54	260+78	LT	15	CURB RAMP
F2	261+49	261+70	LT	15	CURB RAMP
F3	266+05	266+21	RT	14	CURB RAMP
F3	266+61	266+83	RT	20	CURB RAMP
F3	266+12	266+20	LT	13	CURB RAMP
F3	266+61	266+72	LT	92	CURB RAMP
F3	273+50	273+87	RT	47	CURB RAMP
F3	273+76	273+87	LT	39	CURB RAMP
F3	274+32	274+49	LT	24	CURB RAMP
F5	287+09	287+24	RT	7	CURB RAMP
F5	287+30	287+30	RT	7	CURB RAMP
F5	287+95	287+99	RT	7	CURB RAMP
PAY ITEM QUANTITY:				430	



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A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SUMMARY TABLES

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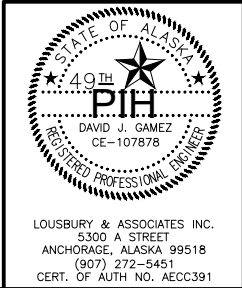
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	D2	D3

CURB RAMP – 608.0006.0000				
SHEET	STATION	OFFSET (FEET)	TYPE	REMARKS
F1	254+07	39.3 RT	PERPENDICULAR	
F1	254+29	42.3 RT	PARALLEL	
F2	260+71	43.2 RT	PERPENDICULAR	
F2	260+83	54.8 RT	PERPENDICULAR	
F2	261+63	42.1 RT	PERPENDICULAR	
F2	261+74	31.5 RT	PERPENDICULAR	
F2	260+63	40.0 LT	PARALLEL	
F2	260+77	51.7 LT	PARALLEL	
F2	261+49	44.3 LT	PARALLEL	
F2	261+61	31.0 LT	PARALLEL	
F3	266+20	41.6 RT	UNIDIRECTIONAL	DWT RADIUS=0.0', LENGTH=13.7'
F3	266+60	41.7 RT	UNIDIRECTIONAL	DWT RADIUS=0.0', LENGTH=13.3'
F3	266+20	39.4 LT	PARALLEL	
F3	266+63	37.1 LT	PARALLEL	
F3	273+68	40.1 RT	PERPENDICULAR	
F3	273+82	49.9 RT	PERPENDICULAR	
F3	273+78	28.8 LT	UNIDIRECTIONAL	DWT RADIUS=0.0', LENGTH=9.7'
F3	273+89	62.9 LT	UNIDIRECTIONAL	DWT RADIUS=0.0', LENGTH=12.1'
F3	273+91	43.8 LT	CUSTOM	
F3	274+34	36.6 LT	PARALLEL	
F5	287+17	26.3 RT	PERPENDICULAR	
F5	287+31	42.1 RT	PERPENDICULAR	
F5	287+94	45.6 RT	PERPENDICULAR	
PAY ITEM QUANTITY:				23

BIKE RAMP – 608.2022.0000				
SHEET	STATION	OFFSET (FEET)	TYPE	REMARKS
F1	252+73	28.7 RT	EXIT RAMP	
F2	264+91	24.7 RT	ENTRANCE RAMP	
F3	270+52	24.5 RT	EXIT RAMP	
F4	277+54	24.9 RT	EXIT RAMP	
F5	286+42	24.3 RT	EXIT RAMP	
PAY ITEM QUANTITY:				5

PIPE LINING SUMMARY – 603.2034.0000, 603.2019.0000, 603.2020.0000					
SHEET	STATION	OFFSET	SIZE (IN)	LENGTH (LF)	REMARKS
E1	246+50	59.0 RT	36	28	CIPP
E1	246+68	76.4 RT	36	27	CIPP
E2	257+51	35.4 LT	21	139	POINT REPAIR AND CIPP
E2	259+13	38.2 LT	21	156	POINT REPAIR AND CIPP
E2	261+16	32.8 LT	21	196	POINT REPAIR AND CIPP
E3	261+90	1.3 RT	30	73	CIPP POINT REPAIR
E3	263+76	27.6 LT	24	147	CIPP
E4	268+44	33.5 RT	24	146	POINT REPAIR AND CIPP
E4	272+94	33.5 RT	24	296	POINT REPAIR AND CIPP
E5	274+08	32.6 RT	21	110	CIPP
E5	274+08	95.6 RT	18	124	CIPP
E5	274+70	32.6 RT	21	58	CIPP
E6	278+19	43.0 RT	21	123	POINT REPAIR AND CIPP
PAY ITEM QUANTITY:				600	

ADJUST JUNCTION BOX – 660.2004.0000			
SHEET	STATION	OFFSET (FEET)	REMARKS
F1	254+34	46.4 RT	
F2	260+74	58.1 RT	
F2	260+83	70.2 RT	
F3	273+72	49.3 RT	
F3	273+90	65.8 LT	
F3	274+43	32.8 LT	
PAY ITEM QUANTITY:			6



STATE OF ALASKA
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A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SUMMARY TABLES

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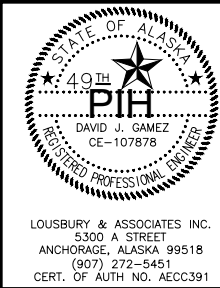
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	D3	D3

PIPE, MANHOLE, INLET AND VALVE BOX SUMMARY 603.2032.0024, 603.2033.0024, 603.2017.0000 604.0004.0000, 627.0010.0000									
SHEET	STATION	OFFSET	603.2032.0024	603.2017.0000	604.0003.0000	604.0004.0000	604.0010.0000	627.0010.0000	REMARKS
			CORRUGATED HDPE PIPE 24 INCH (LF)	CULVERT CLEANING (LF)	RECONSTRUCT EXISTING MANHOLE (EA)	ADJUST EXISTING MANHOLE (EA)	RECONSTRUCT INLET (EA)	ADJUSTMENT OF VALVEBOX (EA)	
F2	260+73.9	9.9 RT						1	
F2	261+03.9	29.0 RT						1	
F2	261+17.4	0.9 RT			1				
F2	261+16.4	27.2 LT			1				
F2	261+86.9	1.7 RT			1				
F2	262+15.8	9.7 RT						1	
F2	263+60.3	5.9 RT						1	
F2	263+76.2	25.3 LT					1		
F2	263+76.1	36.6 RT					1		
F3	265+21.2	6.3 RT						1	
F3	266+11.2	9.3 RT						1	
F3	266+17.6	21.5 RT				1			
F3	266+46.7	9.8 RT						1	
F3	266+53.0	29.8 LT						1	
F3	269+94.0	45.0 RT							
F3	274+40.0	47.2 LT	10						
F3	274+40.0	34.8 LT	18						
F3	272+89.9	35.8 RT					1		
F3	272+93.8	33.4 RT			1				
F3	273+81.6	7.0 RT						1	
F3	273+92.0	31.8 RT					1		
F3	274+07.6	31.7 RT			1				
F3	274+14.6	9.9 RT						1	
F3	274+20.3	31.5 LT						1	
F3	274+69.5	33.3 RT			1				
F3	274+69.8	26.1 LT					1		
F3	274+52.7	43.5 LT					1		
F3	274+39.9	50.9 LT					1		
F3	274+28.5	51.1 LT					1		
F4	278+18.9	30.3 RT					1		
F4	277+27.5	7.1 RT						1	
F4	277+60.8	10.2 RT						1	
F4	277+73.4	51.2 LT					1		
F4	277+38.8	51.6 LT					1		
F4	279+78.3	22.9 RT						1	
F4	280+77.8	6.7 RT						1	
F4	282+46.9	7.5 RT						1	
F4	282+48.0	17.9 LT		89					
F4							1		



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SUMMARY TABLES

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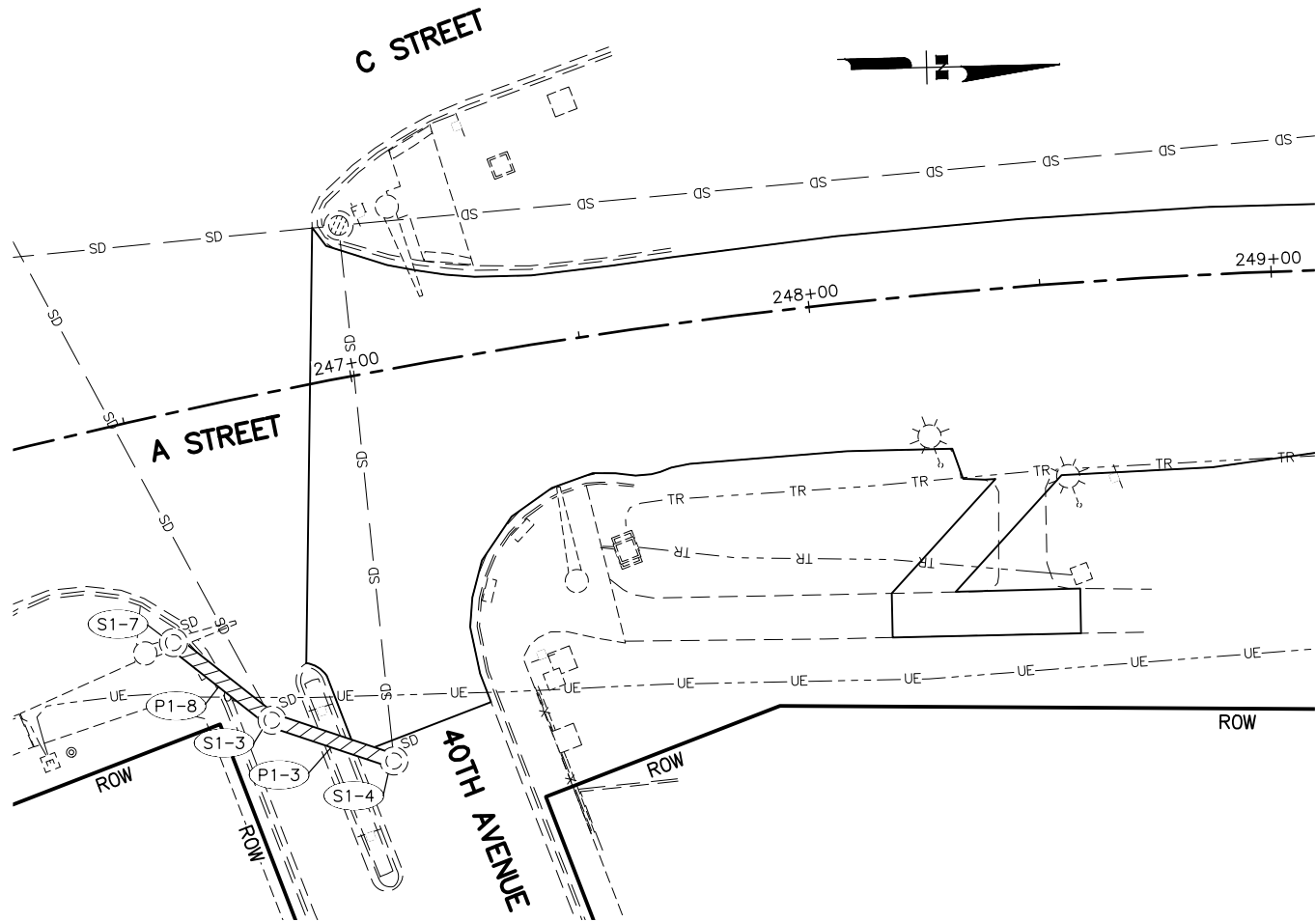
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E1

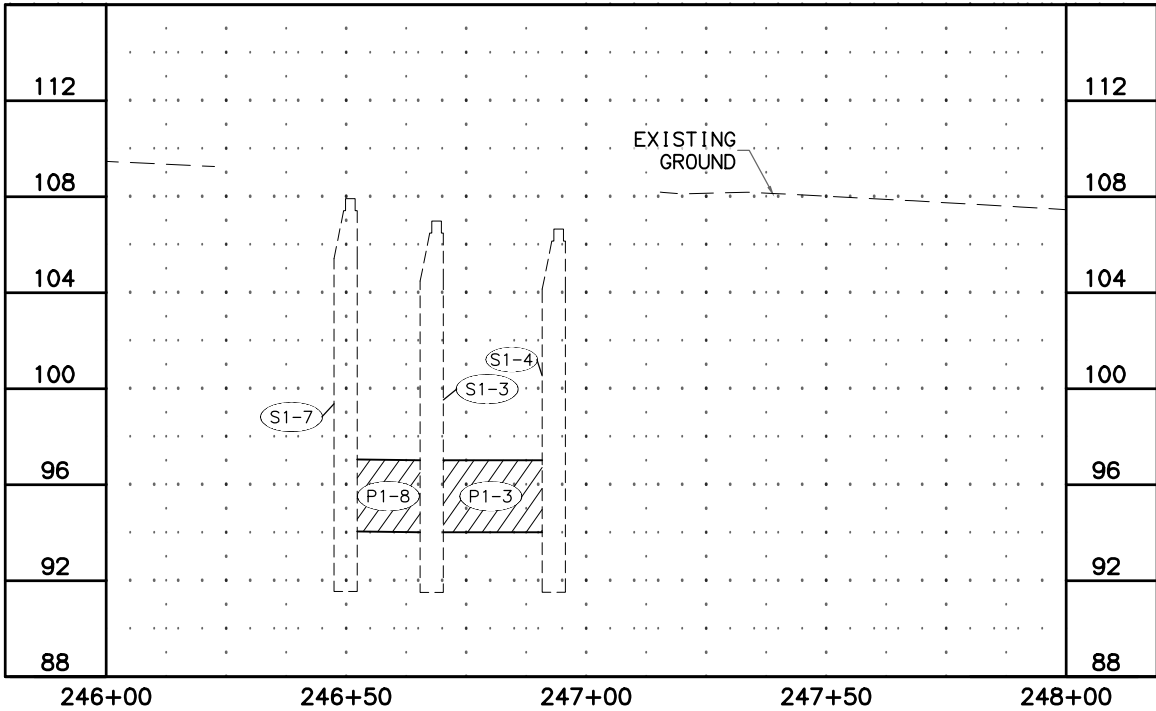
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PIPE SUMMARY									
PIPE ID	SIZE (IN.)	LENGTH	FROM	TO	START INVERT ELEV. (FT)	END INVERT ELEV. (FT)	% GRADE	PIPE MATERIAL	REMARKS
P1-3	36.0	27.73	S1-3	S1-4	94.02	94.02	0.00%	CMP	CIPP
P1-8	36.0	27.07	S1-7	S1-3	94.06	94.02	0.17%	CMP	CIPP



SHEET NO.	TOTAL SHEETS
E1	E9
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

NORTHERN LIGHTS BOULEVARD
BENSON BOULEVARD
31ST AVENUE
32ND AVENUE
34TH AVENUE
36TH AVENUE
38TH AVENUE
40TH AVENUE
A STREET
CALAIS DRIVE

THIS SHEET

STATE OF ALASKA
49TH
PIH
DAVID J. GAMEZ
CE-107878
REGISTERED PROFESSIONAL ENGINEER

LOUNSBURY & ASSOCIATES, INC.
5300 A STREET
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(907) 272-5451
CERT. OF AUTH. NO. AECC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

STORM DRAIN DETAILS

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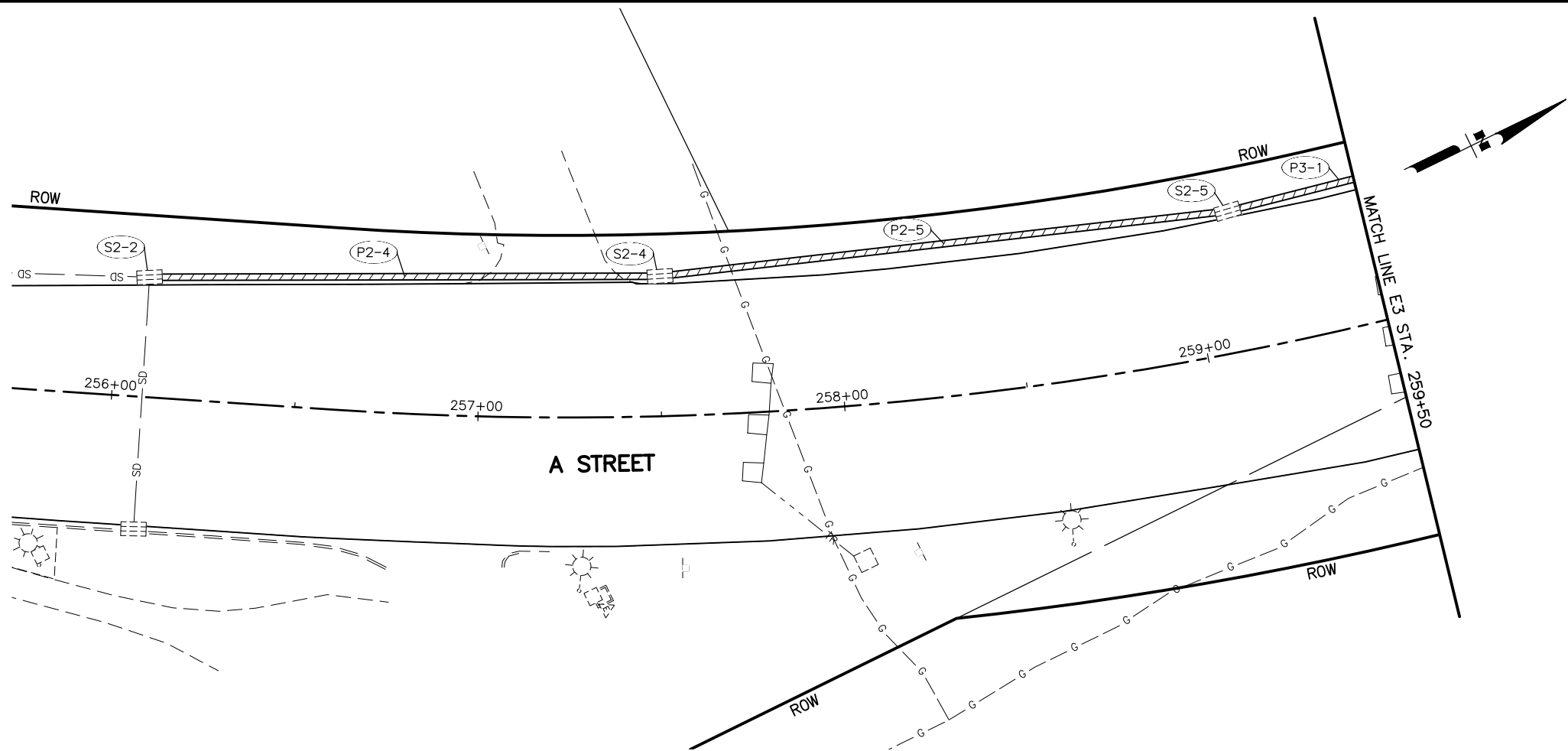
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E2

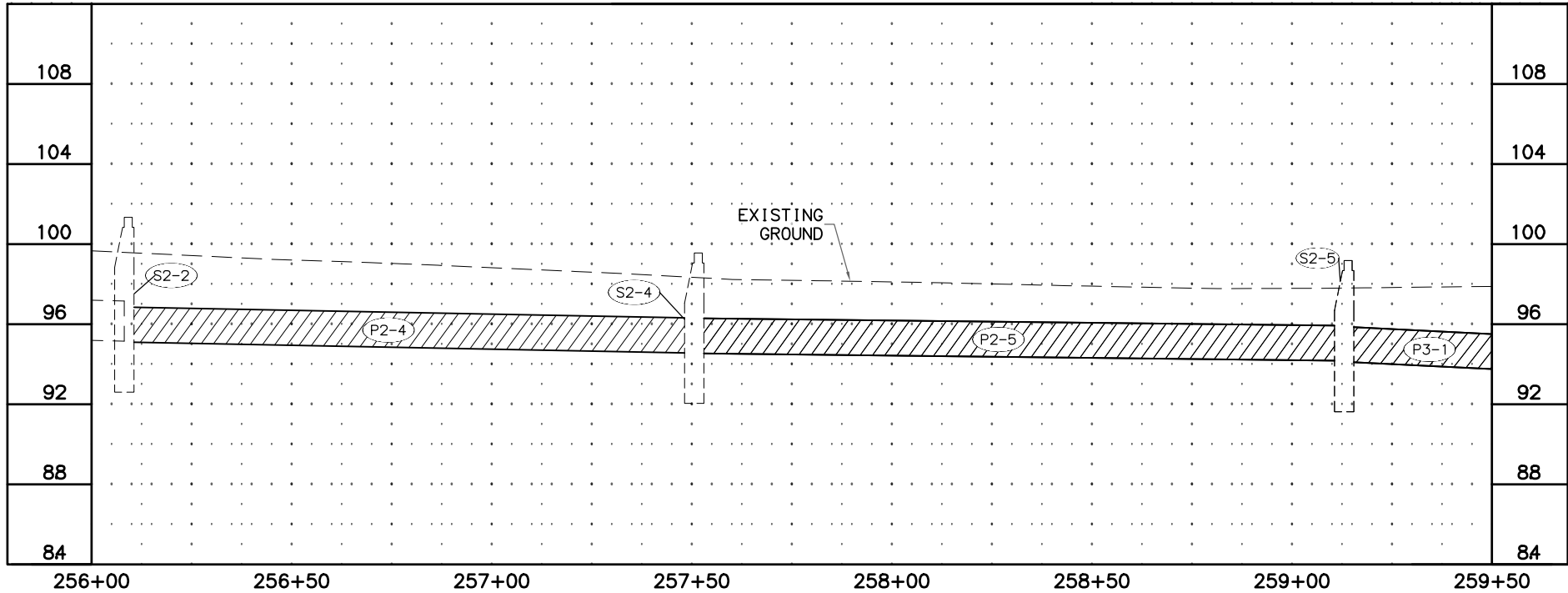
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PIPE SUMMARY									
PIPE ID	SIZE (IN.)	LENGTH	FROM	TO	START INVERT ELEV. (FT)	END INVERT ELEV. (FT)	% GRADE	PIPE MATERIAL	REMARKS
P2-4	21.0	139.06	S2-4	S2-2	94.56	95.11	0.41%	FRP	CIPP POINT REPAIR
P2-5	21.0	155.69	S2-5	S2-4	94.18	94.55	0.24%	FRP	CIPP POINT REPAIR
P3-1	21.0	196.22	S3-3	S2-5	92.10	94.13	1.05%	FRP	CIPP POINT REPAIR



SHEET NO.	TOTAL SHEETS
E2	E9
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
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NO.	REVISION
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STATE OF ALASKA

49th

PIH

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LIGHTS BLVD TO 40TH AVE

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STORM DRAIN DETAILS

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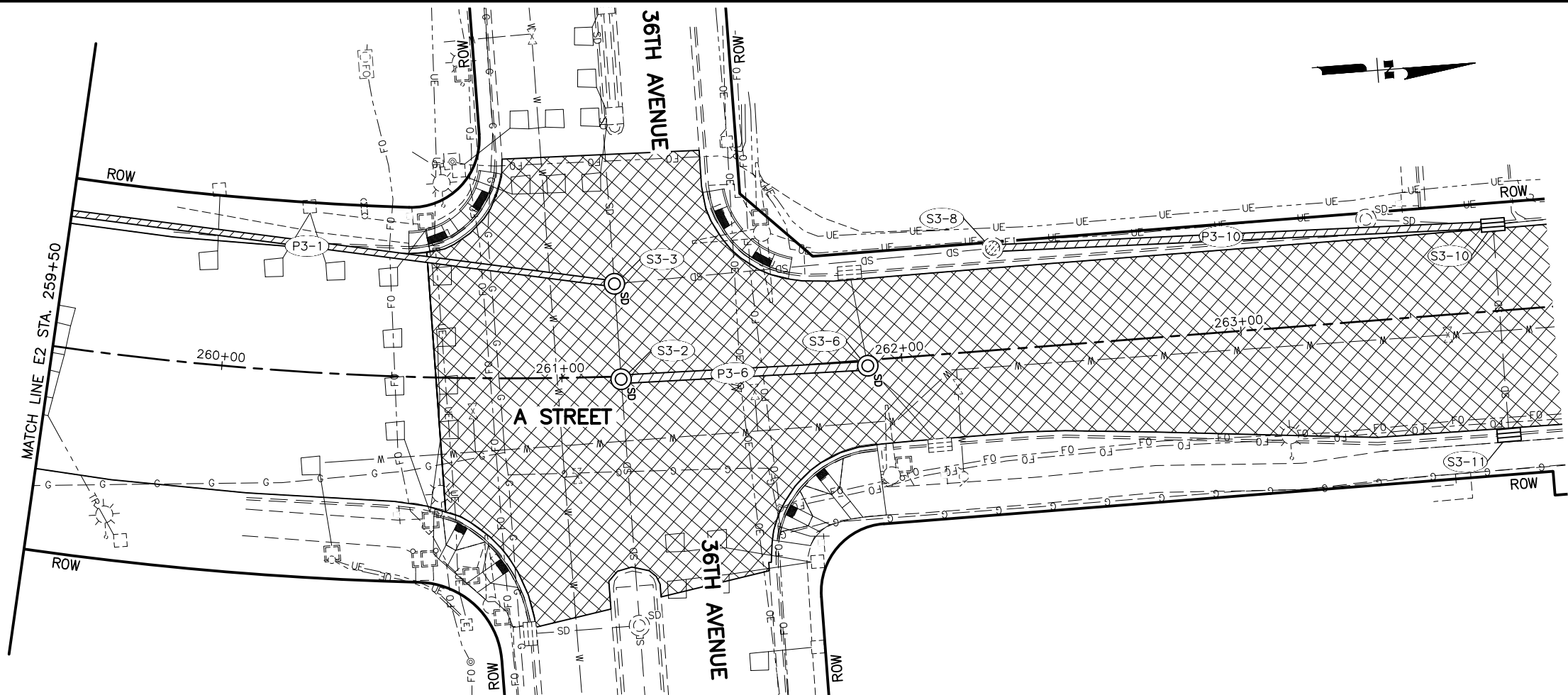
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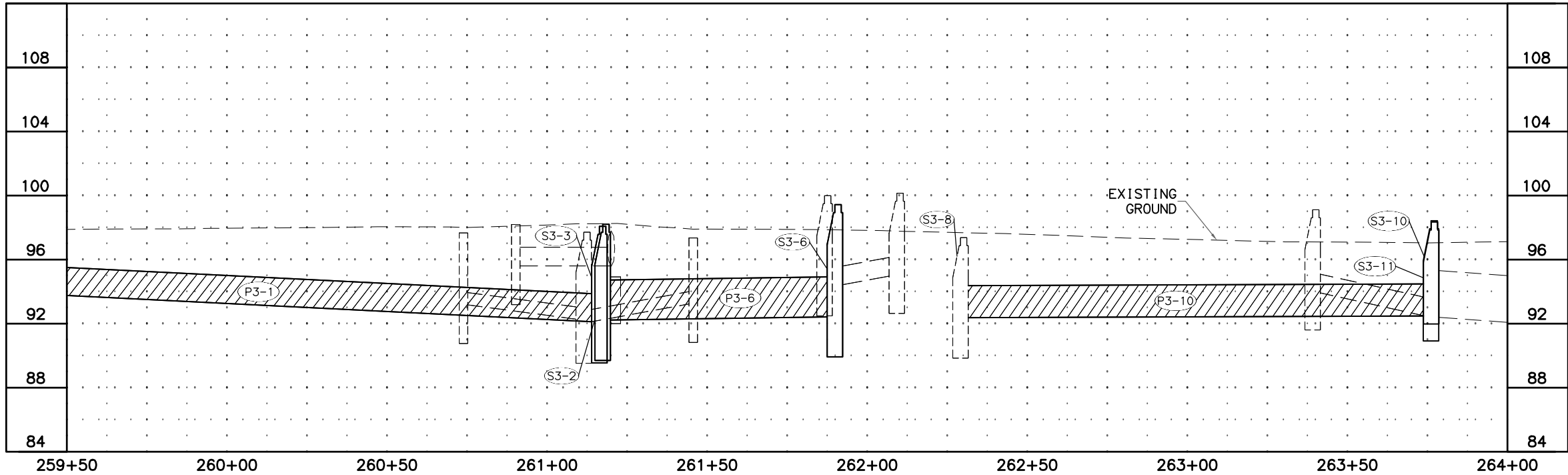
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PIPE SUMMARY									
PIPE ID	SIZE (IN.)	LENGTH	FROM	TO	START INVERT ELEV. (FT)	END INVERT ELEV. (FT)	% GRADE	PIPE MATERIAL	REMARKS
P3-1	21.0	196.22	S3-3	S2-5	92.10	94.13	1.05%	FRP	CIPP POINT REPAIR
P3-6	30.0	72.55	S3-6	S3-2	92.43	92.22	0.30%	CMP	CIPP POINT REPAIR
P3-10	24.0	147.12	S3-10	S3-8	92.48	92.37	0.08%	FRP	CIPP

STRUCTURE SUMMARY						
STRUCTURE ID	TYPE	STATION	OFFSET	TOP OF CASTING	TYPE OF CASTING	REMARKS
S3-2	I	261+17.40	0.86 RT	98.22	MH	REPAIR MANHOLE
S3-3	I	261+16.35	27.24 LT	98.08	MH	REPAIR MANHOLE
S3-6	I	261+89.90	1.67 RT	97.83	MH	REPAIR MANHOLE
S3-10	A	263+76.20	25.28 LT	96.66	CI	REPAIR CURB INLET
S3-11	A	263+76.13	36.64 RT	96.52	CI	REPAIR CURB INLET



SHEET NO.
E3

STATE
ALASKA

TOTAL SHEETS
E9

YEAR
2020

PROJECT DESIGNATION
**0527030/
CFHWY00223**

NO.
DATE

REVISION

NO.
DATE

REVISION

NO.
DATE

REVISION

NORTHERN LIGHTS BOULEVARD

BENSON BOULEVARD

31ST AVENUE

32ND AVENUE

34TH AVENUE

36TH AVENUE

38TH AVENUE

40TH AVENUE

A STREET

CALAIS DRIVE

THIS SHEET

STATE OF ALASKA

49TH

PIH

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A STREET: NORTHERN LIGHTS BLVD TO 40TH AVE

PAVEMENT PRESERVATION

STORM DRAIN DETAILS

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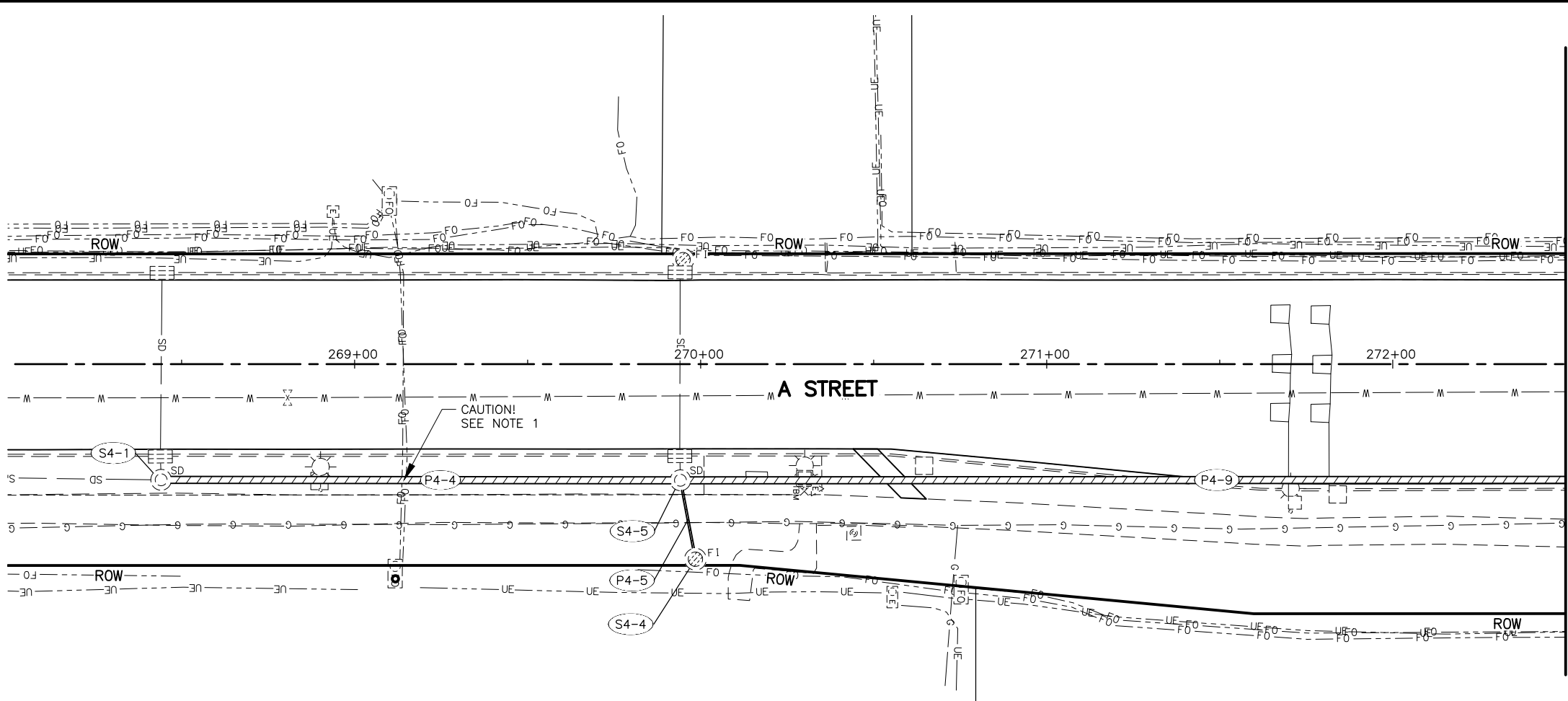
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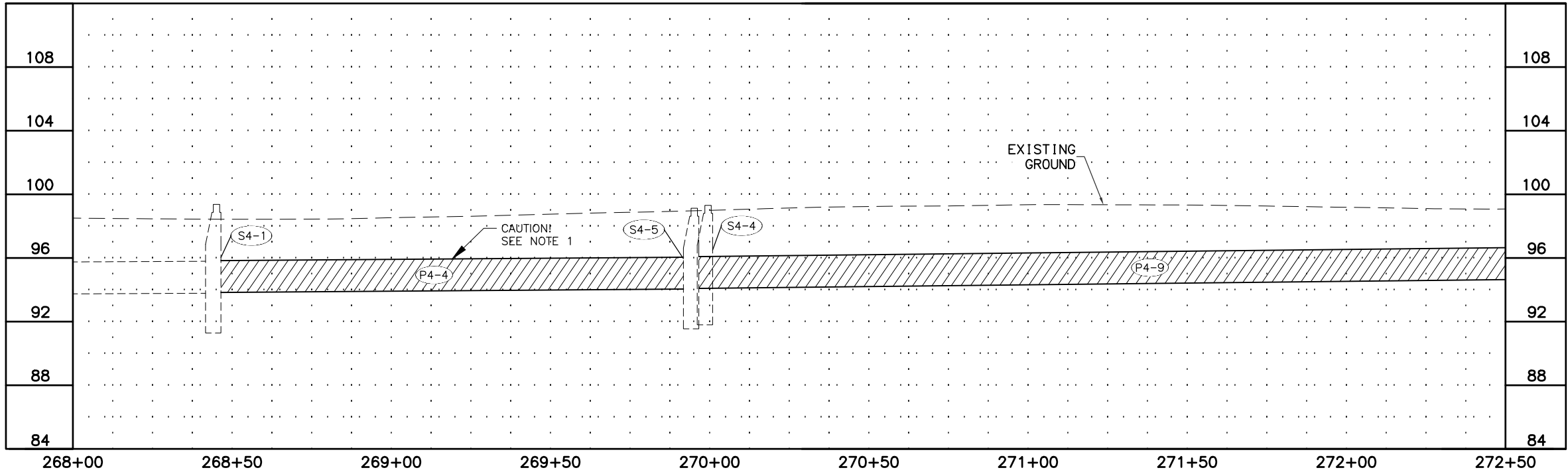
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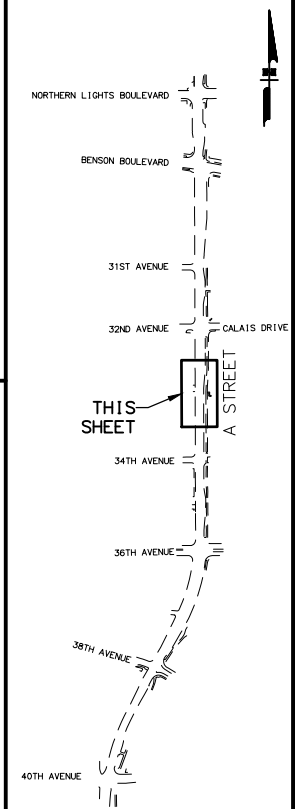
NOTES:

1. EXISTING UTILITY IS PENETRATING STORM DRAIN PIPE RELOCATE AND PROTECT FIBEROPTIC/TELEPHONE LINE. MAINTAIN SERVICE DURING CONSTRUCTION.

PIPE SUMMARY									
PIPE ID	SIZE (IN.)	LENGTH	FROM	TO	START INVERT ELEV. (FT)	END INVERT ELEV. (FT)	% GRADE	PIPE MATERIAL	REMARKS
P4-4	24.0	146.08	S4-1	S4-5	93.83	94.05	0.15%	FRP	CIPP POINT REPAIR
P4-5	6.0	19.21	S4-5	S4-4	94.12	94.30	0.92%	CMP	INSPECT/ABANDON
P4-9	24.0	295.58	S5-2	S4-5	94.74	94.08	0.22%	FRP	CIPP POINT REPAIR



SHEET NO.	TOTAL SHEETS
E4	E9
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
NO.	REVISION
DATE	
NO.	REVISION
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NO.	REVISION
DATE	

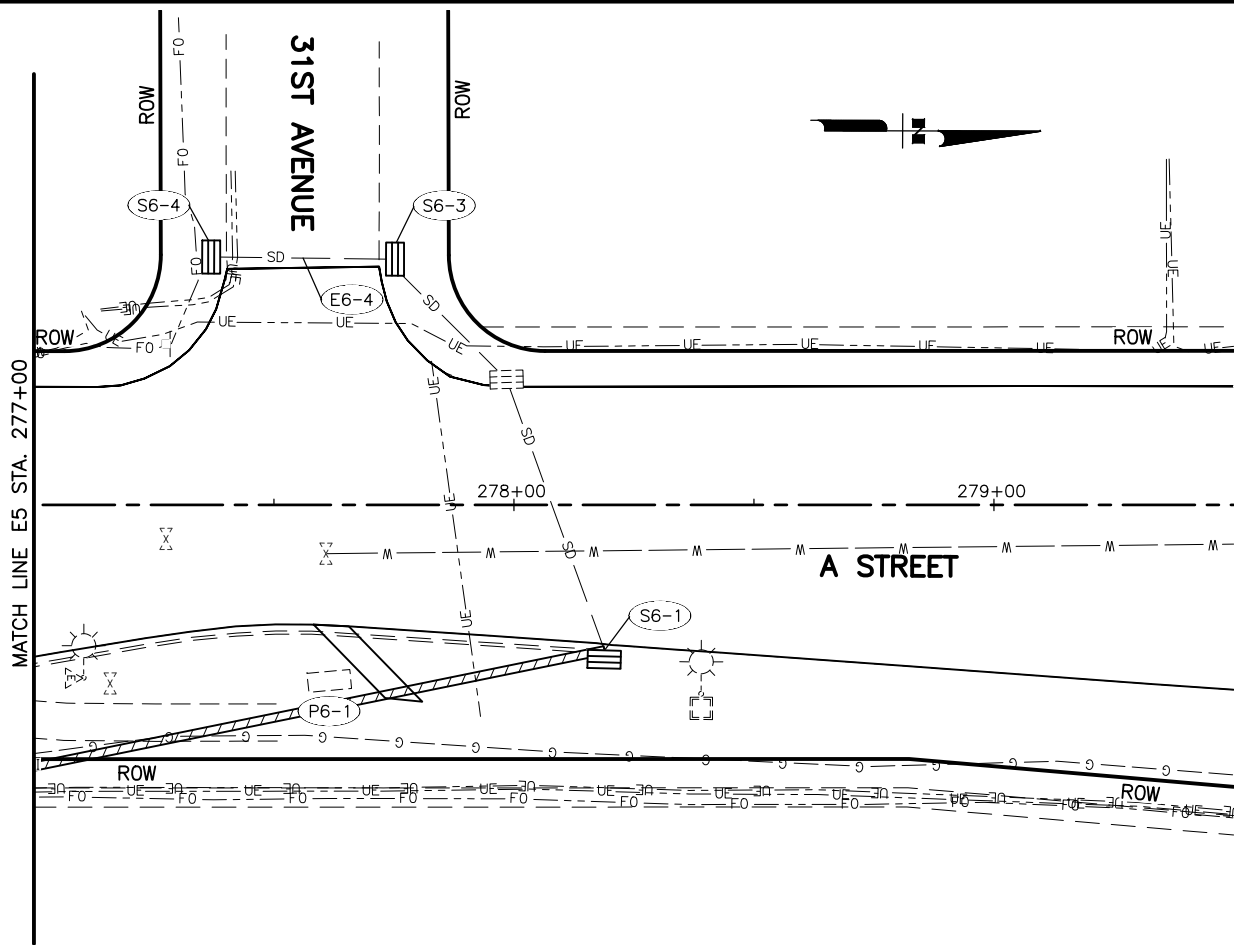


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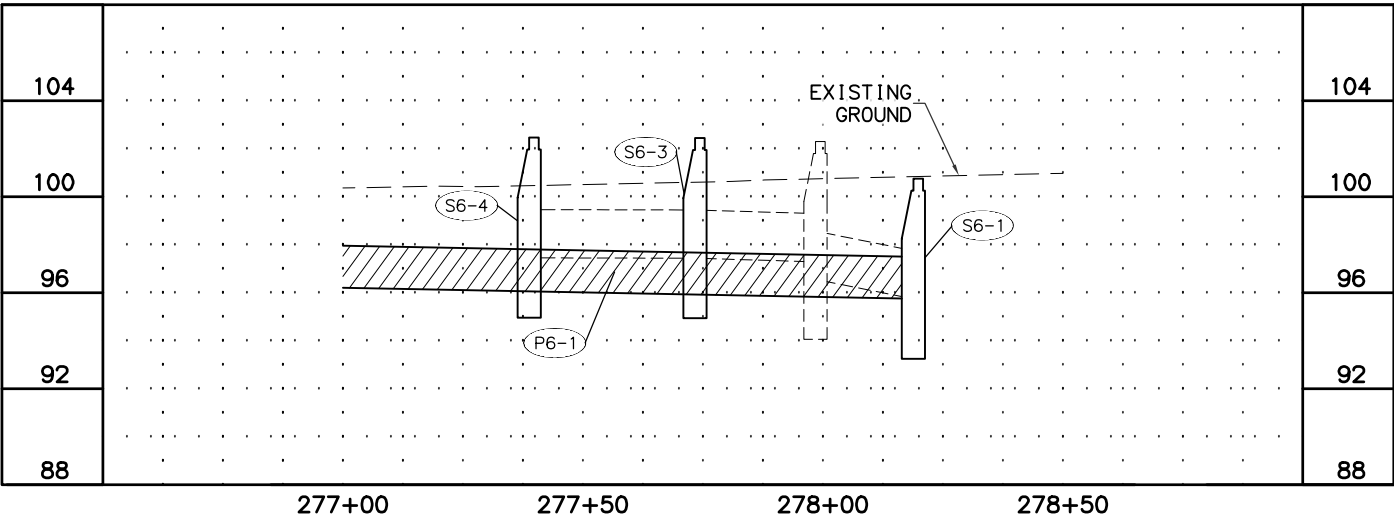
A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

STORM DRAIN DETAILS

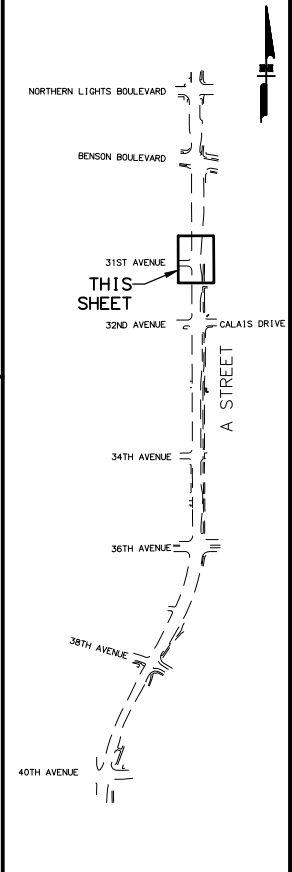


PIPE SUMMARY									
PIPE ID	SIZE (IN.)	LENGTH	FROM	TO	START INVERT ELEV. (FT)	END INVERT ELEV. (FT)	% GRADE	PIPE MATERIAL	REMARKS
P6-1	21.0	123.05	S6-1	S5-14	95.75	96.23	0.39%	FRP	CIPP POINT REPAIR

STRUCTURE SUMMARY						
STRUCTURE ID	TYPE	STATION	OFFSET	TOP OF CASTING	TYPE OF CASTING	REMARKS
S6-1	A	278+18.87	30.30 RT	99.98	CI	REPAIR CURB INLET
S6-3	A	277+73.37	51.20 LT	99.07	CI	REPAIR CURB INLET
S6-4	A	277+38.82	51.62 LT	98.94	CI	REPAIR CURB INLET



SHEET NO.	TOTAL SHEETS
E6	E9
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
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DATE	
NO.	REVISION
DATE	
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DATE	



STATE OF ALASKA

★ 49TH ★

PIH

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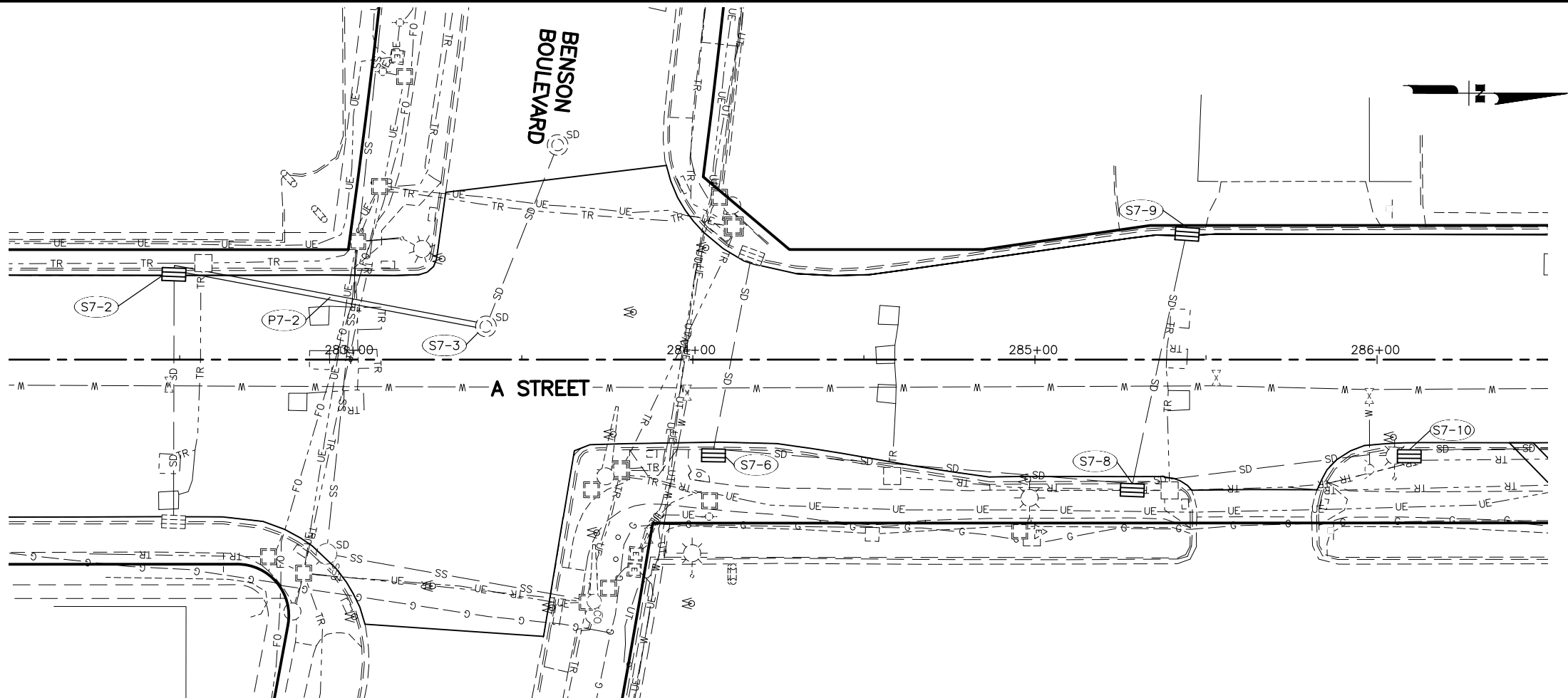
STATE OF ALASKA
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AND PUBLIC FACILITIES

A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

STORM DRAIN DETAILS

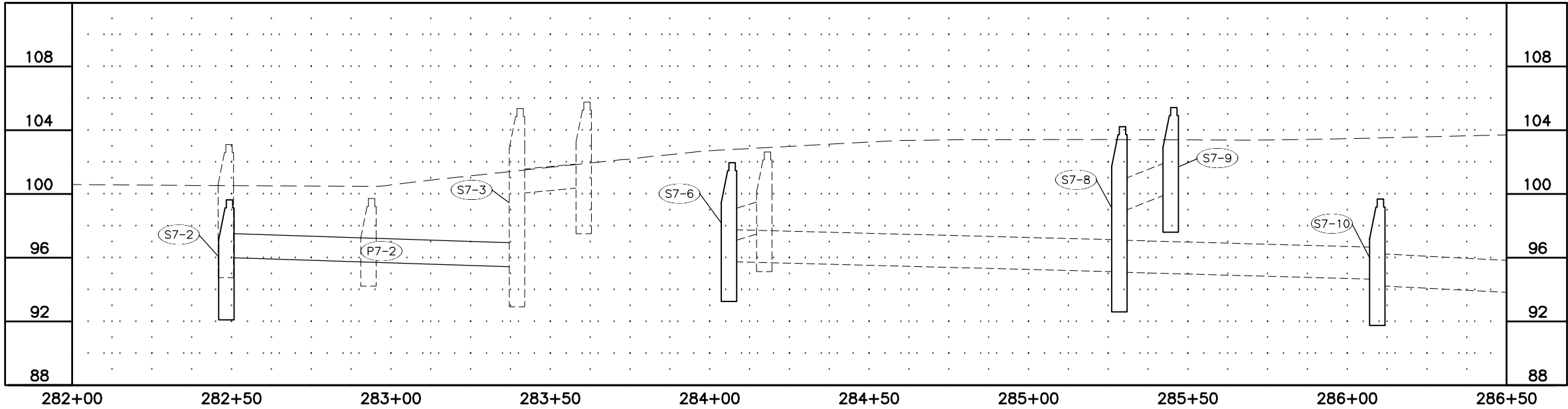
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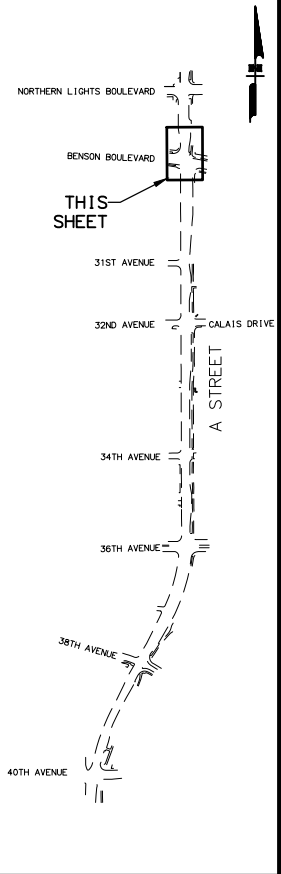


PIPE SUMMARY									
PIPE ID	SIZE (IN.)	LENGTH	FROM	TO	START INVERT ELEV. (FT)	END INVERT ELEV. (FT)	% GRADE	PIPE MATERIAL	REMARKS
P7-2	18.0	88.76	S7-2	S7-3	96.02	95.42	0.67%	CMP	CLEAN

STRUCTURE SUMMARY						
STRUCTURE ID	TYPE	STATION	OFFSET	TOP OF CASTING	TYPE OF CASTING	REMARKS
S7-2	A	282+48.38	26.80 LT	97.91	CI	REPAIR CURB INLET
S7-6	A	284+06.06	26.13 RT	98.18	CI	REPAIR CURB INLET
S7-8	A	285+28.52	36.28 RT	99.01	CI	REPAIR CURB INLET
S7-9	A	285+44.61	38.59 LT	98.18	CI	REPAIR CURB INLET
S7-10	A	286+09.41	26.38 RT	99.01	CI	REPAIR CURB INLET



SHEET NO.	TOTAL SHEETS
E7	E9
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

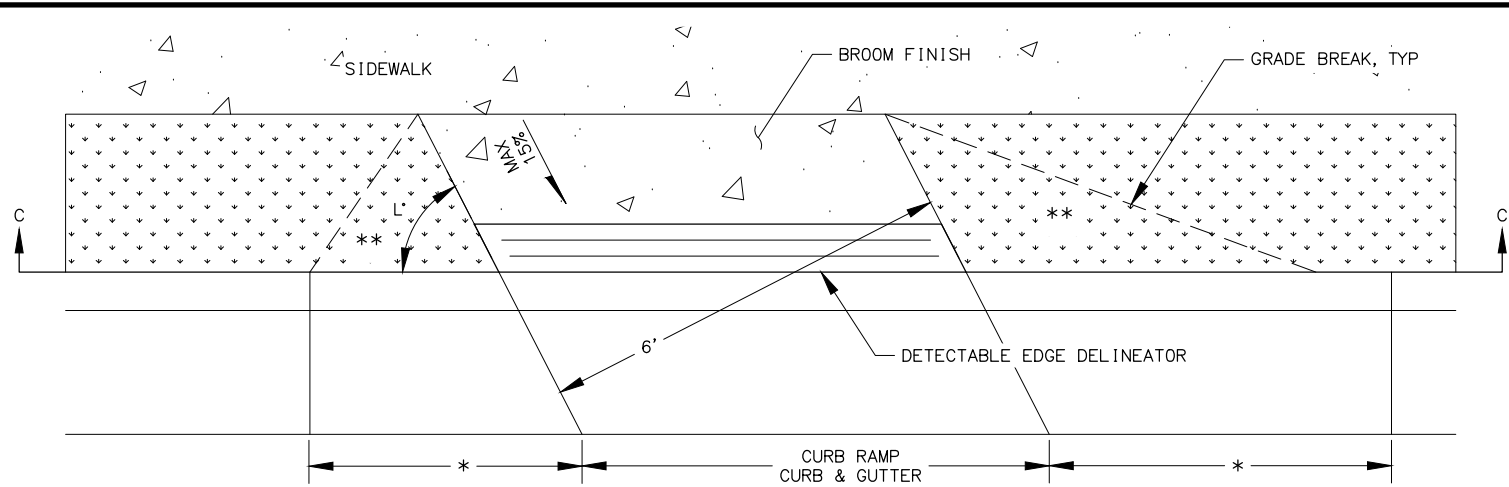


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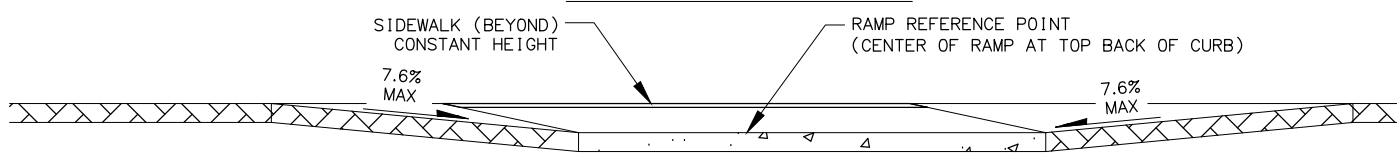
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

STORM DRAIN DETAILS



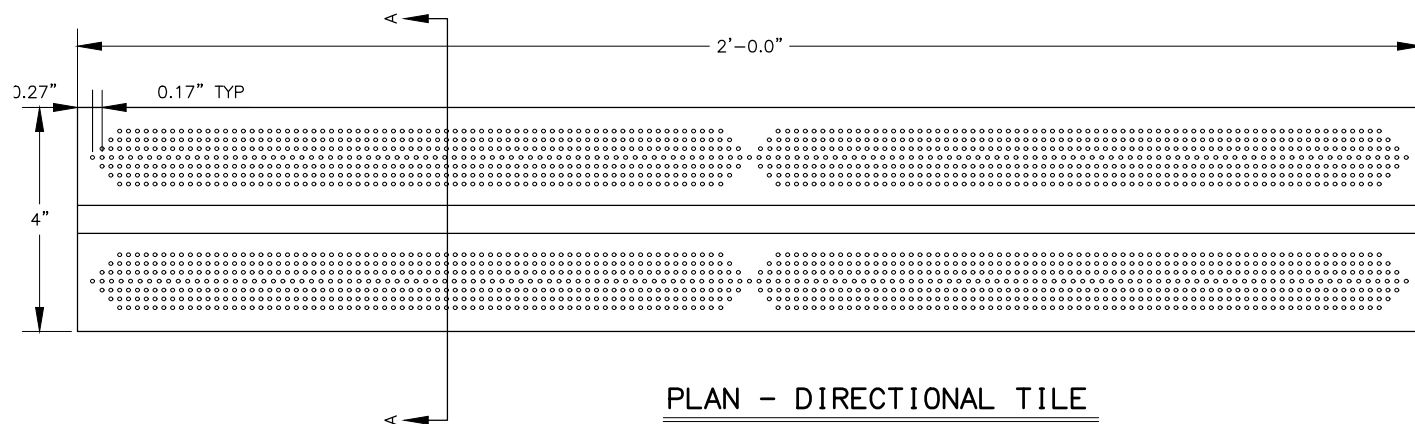
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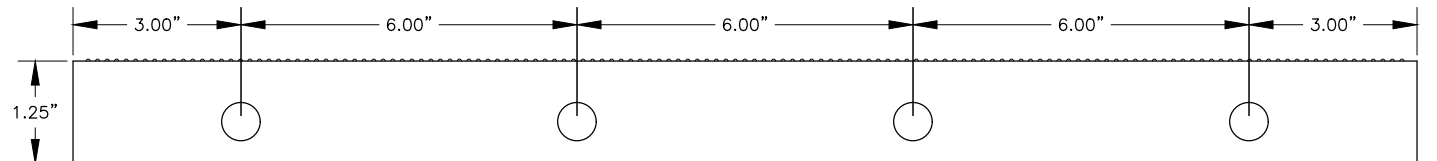
SECTION C-C

BIKE RAMP DETAILS

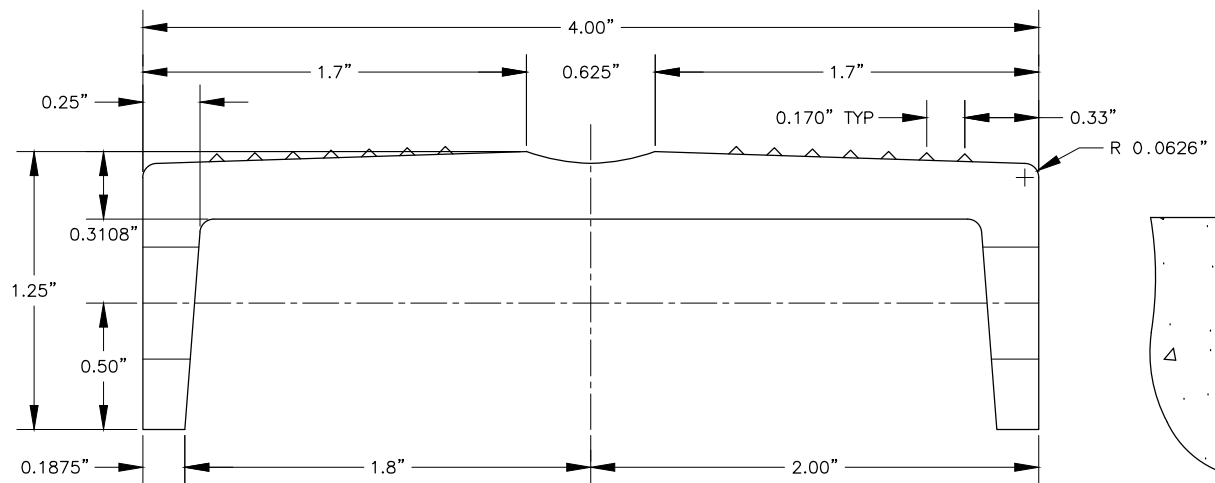
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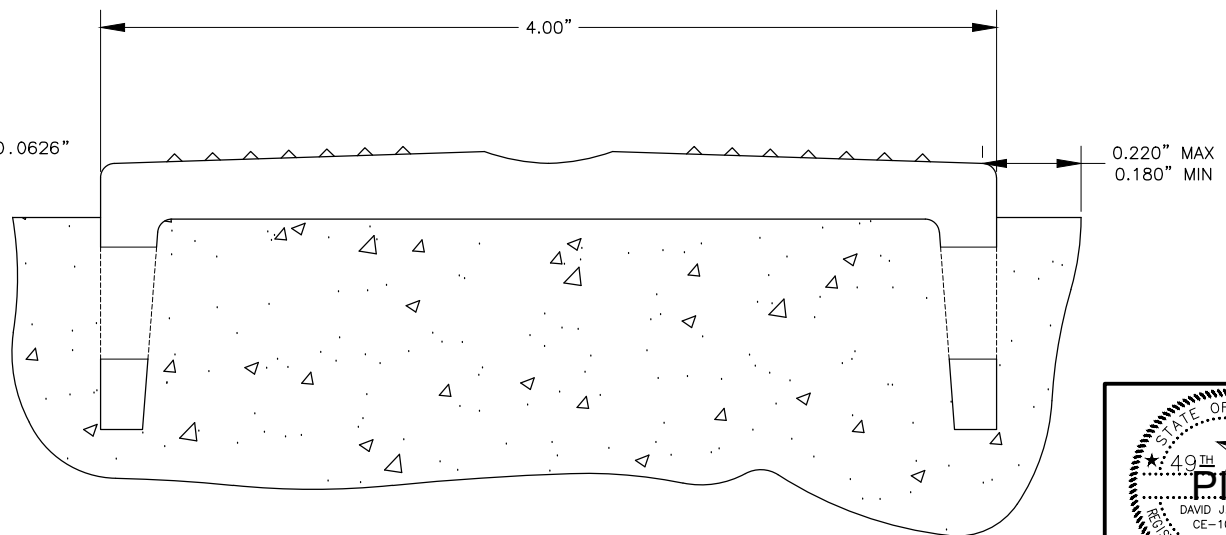
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ELEVATION



SECTION A-A
NTS



SECTION A-A INSTALLED
NTS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	E8	E9

BIKE LANE RAMP TABLE			
STATION	OFFSET	L °	REMARKS
252+72.50	28.70 RT	49°	BIKE LANE EXIT
264+91.46	24.69 RT	135°	BIKE LANE ENTRANCE
270+51.58	24.53 RT	41°	BIKE LANE EXIT
277+54.05	24.94 RT	43°	BIKE LANE EXIT
286+42.14	24.30 RT	46°	BIKE LANE EXIT

- * TRANSITION CURB AND GUTTER
** TRANSITION ADJACENT SURFACE

BIKE RAMP NOTES:

1. CONSTRUCT RAMPS WITH A BROOM FINISH RUNNING PERPENDICULAR TO THE CURB AND CONSTRUCT LANDINGS WITH A BROOM FINISH RUNNING PARALLEL TO THE CURB
2. SIDEWALK CROSS SLOPE NOT TO EXCEED 1.5%



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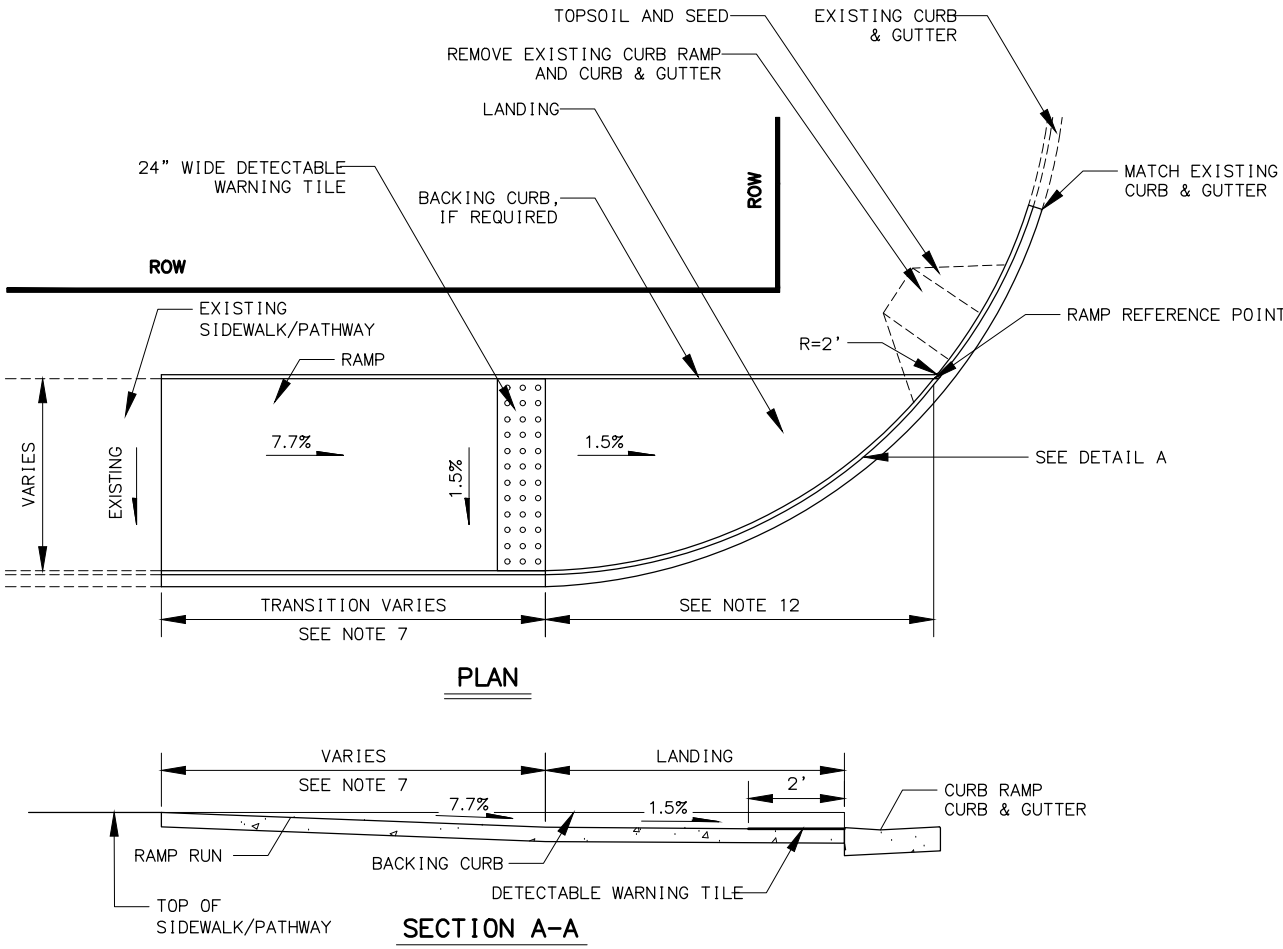
STATE OF ALASKA
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**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

BIKE RAMP DETAILS

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	E9	E9

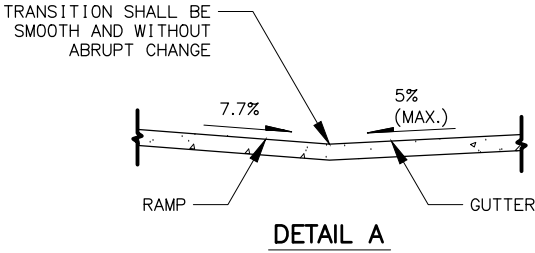


UNIDIRECTIONAL CURB RAMP NOTES:

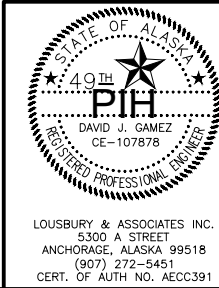
1. UNIDIRECTIONAL CURB RAMPs ARE TYPICALLY USED WHEN THE SIDEWALK IS AT LEAST 5 FEET WIDE AND ONLY ONE DIRECTION OF TRAVEL IS REQUIRED.
2. SEE PLANS FOR RAMP TYPE AT PARTICULAR LOCATIONS.
3. CONSTRUCT RAMP RUNS AND LANDINGS OF CONCRETE, REGARDLESS OF WHETHER THE SIDEWALK IS ASPHALT OR CONCRETE.
4. RAMP RUN LENGTHS ARE SHOWN FOR 6 INCH CURB HEIGHTS AND NO LONGITUDINAL SIDEWALK SLOPE. FOR OTHER HEIGHTS AND SLOPES INCREASE OR DECREASE RUN AND FLARE LENGTHS TO MAINTAIN THE SLOPES SHOWN.
5. CONSTRUCT RAMP SLOPES 7.7% OR FLATTER, AND SIDEWALK CROSS-SLOPES AT 1.5% (1% MIN. AND 2% MAX.). IF CONDITIONS REQUIRE, THE ENGINEER MAY INCREASE SLOPES IN ACCORDANCE WITH NOTE 7. CONSTRUCT GRADE BREAKS PERPENDICULAR TO RAMP RUNS.
6. DO NOT CONSTRUCT RAMP SLOPES STEEPER THAN 8.3% OR SIDEWALK CROSS SLOPES STEEPER THAN 2%, EXCEPT AS PROVIDED UNDER NOTE 7. THESE ARE THE STEEPEST SLOPES ALLOWED BY LAW.
7. WHERE SIDEWALK SLOPE MAKES IT NECESSARY TO LENGTHEN A RAMP RUN TO AVOID EXCEEDING THE ALLOWABLE RAMP SLOPE, DO NOT EXCEED A RAMP LENGTH OF 15 FEET. THE SLOPE RESULTING FROM THAT RUN LENGTH IS ACCEPTABLE, EVEN IF IT EXCEEDS THE MAXIMUM SLOPE SHOWN.
8. PROVIDE A COARSE BROOMED FINISH RUNNING PERPENDICULAR TO THE CURB ON RAMP RUNS AND UPPER LANDINGS AND PARALLEL TO THE CURB ON LOWER LANDINGS.
9. DRAINAGE INLETS SHOULD NOT BE LOCATED WITHIN MARKED CROSSWALKS OR, IF CROSSWALKS ARE NOT MARKED, INLETS SHOULD NOT BE LOCATED WITHIN THE AREA A STANDARD MARKED CROSSWALK WOULD ENCLOSE. IF THAT IS UNAVOIDABLE, INSTALL ACCESSIBLE GRATES WITH OPENINGS NO GREATER THAN 1/2 INCH IN ANY DIRECTION.
10. INSTALL 24 INCH DETECTABLE WARNING TILES FOR THE FULL WIDTH OF THE RAMP. DOMES SHALL BE IN A SQUARE PATTERN. ALIGN TRUNCATED DOME PATTERN IN THE PREDOMINANT DIRECTION OF WHEELCHAIR TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN THE DOMES, WHERE PREDICTABLE.
11. CONSTRUCT CURB RAMPs AND DETECTABLE WARNING TILES IN ACCORDANCE WITH REQUIREMENTS FOR THE AMERICANS WITH DISABILITIES ACT (ADA).
12. DETECTABLE WARNING TILES MAY BE PLACED PERPENDICULAR ACROSS THE BOTTOM OF THE CURB RAMP, BUT ONLY IF THE BOTTOM OF THE CURB RAMP IS NO MORE THAN 5 FEET FROM THE BACK OF CURB.

UPHILL SIDEWALK GRADE	RAMP RUN LENGTH
0 TO 1.5%	7.5'
1.51% TO 4.0%	12'
STEEPER THAN 4.0%	15'

DOWNHILL SIDEWALK GRADES	RAMP RUN LENGTH
ALL	7.5'



UNIDIRECTIONAL CURB RAMP



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CURB RAMP DETAILS

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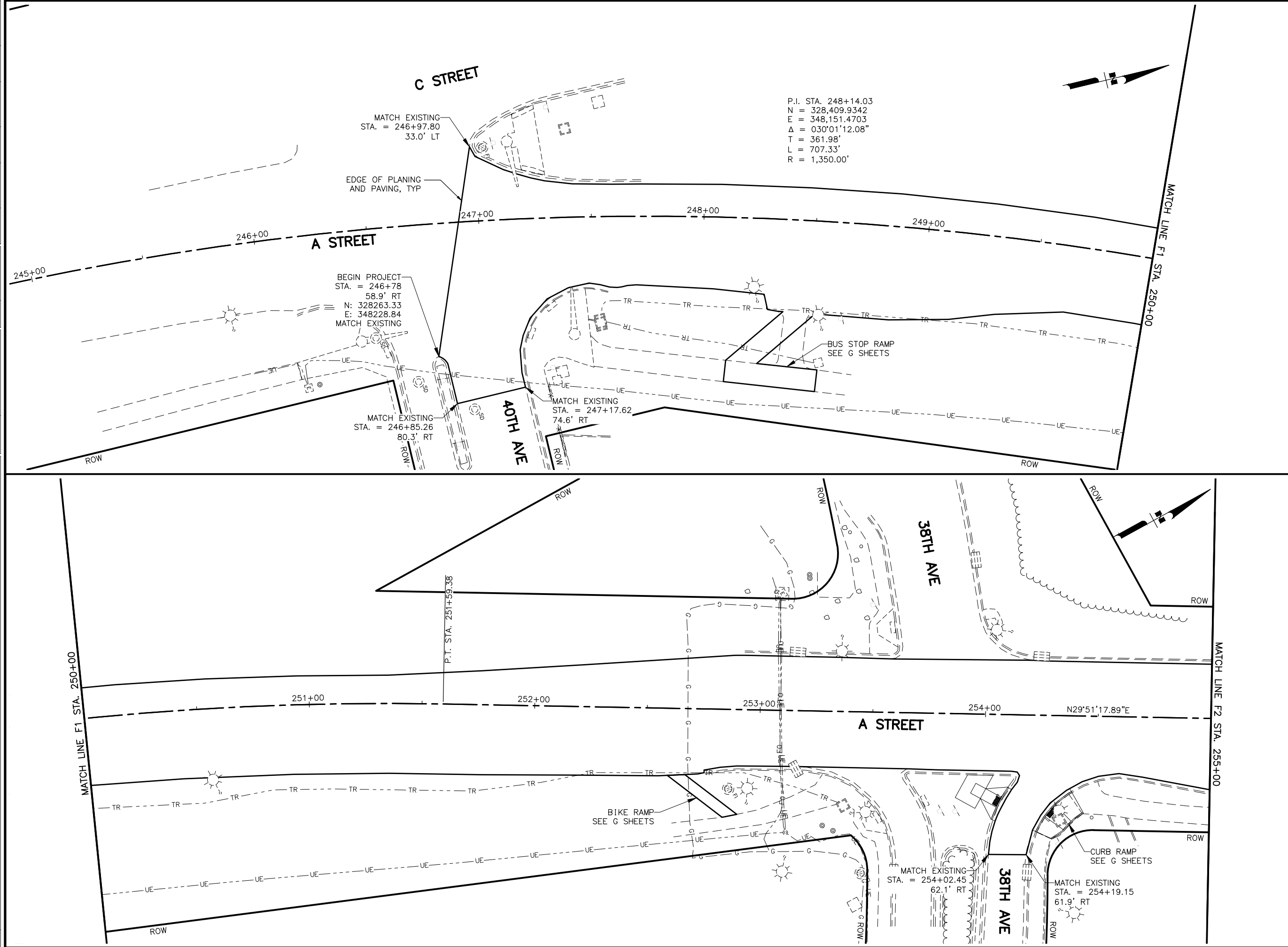
LAYOUT

F1

DESIGNED

CHECKED

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SHEET NO.	TOTAL SHEETS
F1	F5
STATE	YEAR
ALASKA	2020

PROJECT DESIGNATION

**0527030/
CFHWY00223**

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

NORTHERN LIGHTS BOULEVARD

BENSON BOULEVARD

31ST AVENUE

32ND AVENUE

34TH AVENUE

36TH AVENUE

38TH AVENUE

40TH AVENUE

A STREET

THIS SHEET

STATE OF ALASKA

49TH

PIH

DAVID J. GAMEZ

CE-107878

REGISTERED PROFESSIONAL ENGINEER

LOUNSBURY & ASSOCIATES, INC.

5300 A STREET

ANCHORAGE, ALASKA 99518

(907) 272-5451

CERT. OF AUTH. NO. AECC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION**

PLAN
BOP - STA. 255+00

FILE ID: \PWISE\FILE_DMS01275

DATE/TIME 6/15/2020 1:10 PM

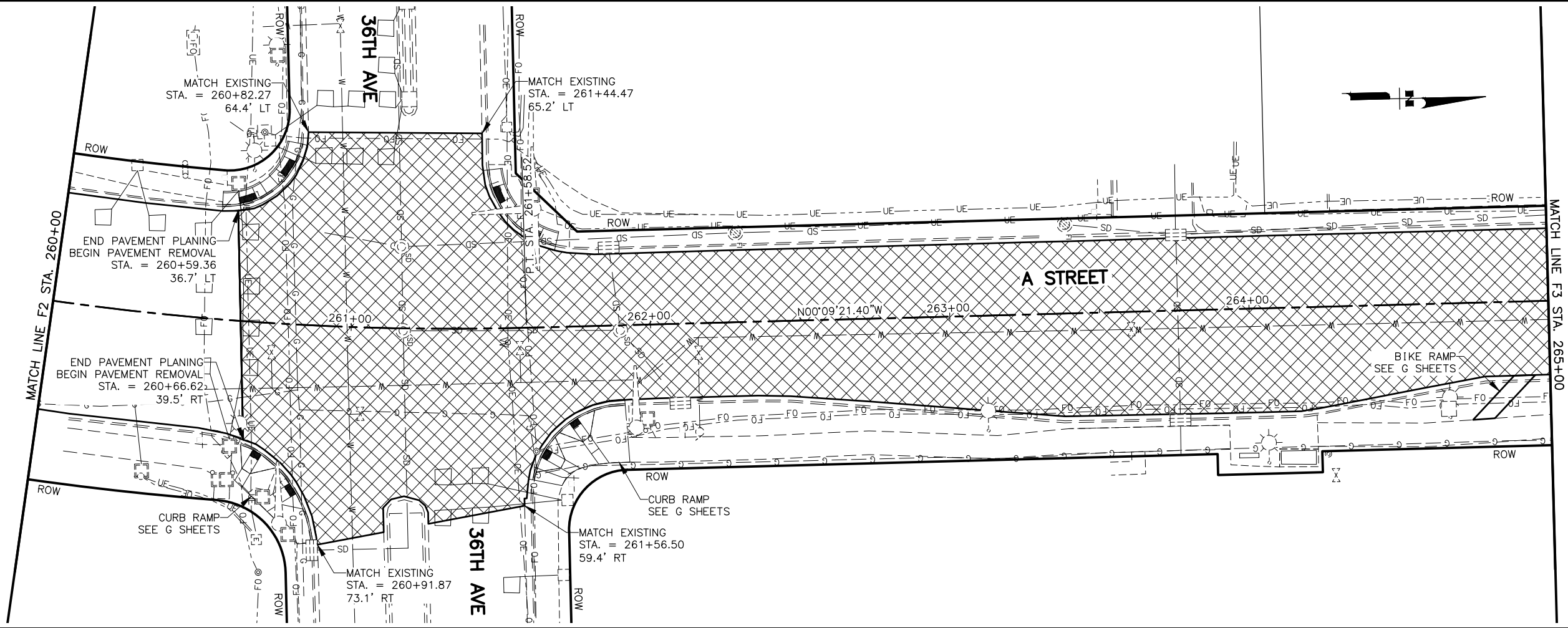
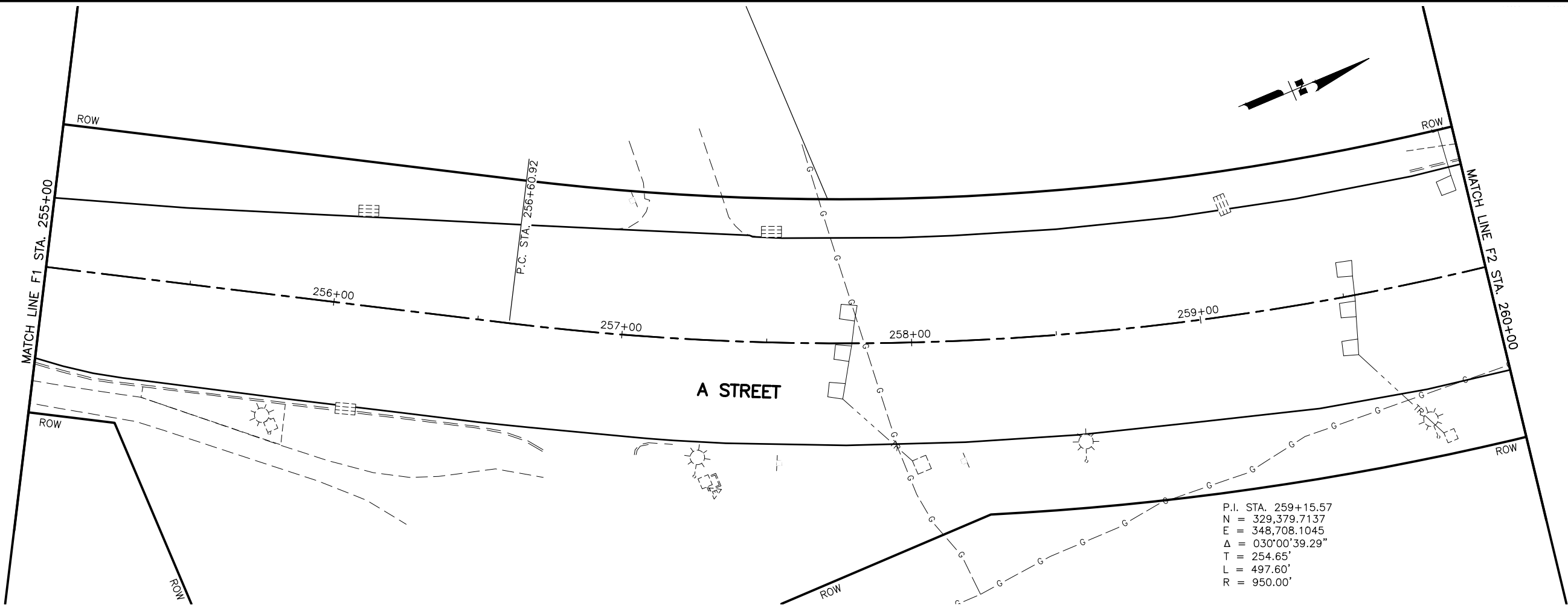
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F2

DESIGNED

CHECKED

DRAFTED



SHEET NO.	TOTAL SHEETS
F2	F5
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

NORTHERN LIGHTS BOULEVARD

BENSON BOULEVARD

31ST AVENUE

32ND AVENUE

34TH AVENUE

36TH AVENUE

38TH AVENUE

40TH AVENUE

A STREET

THIS SHEET

STATE OF ALASKA

49TH

P.E.

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STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION

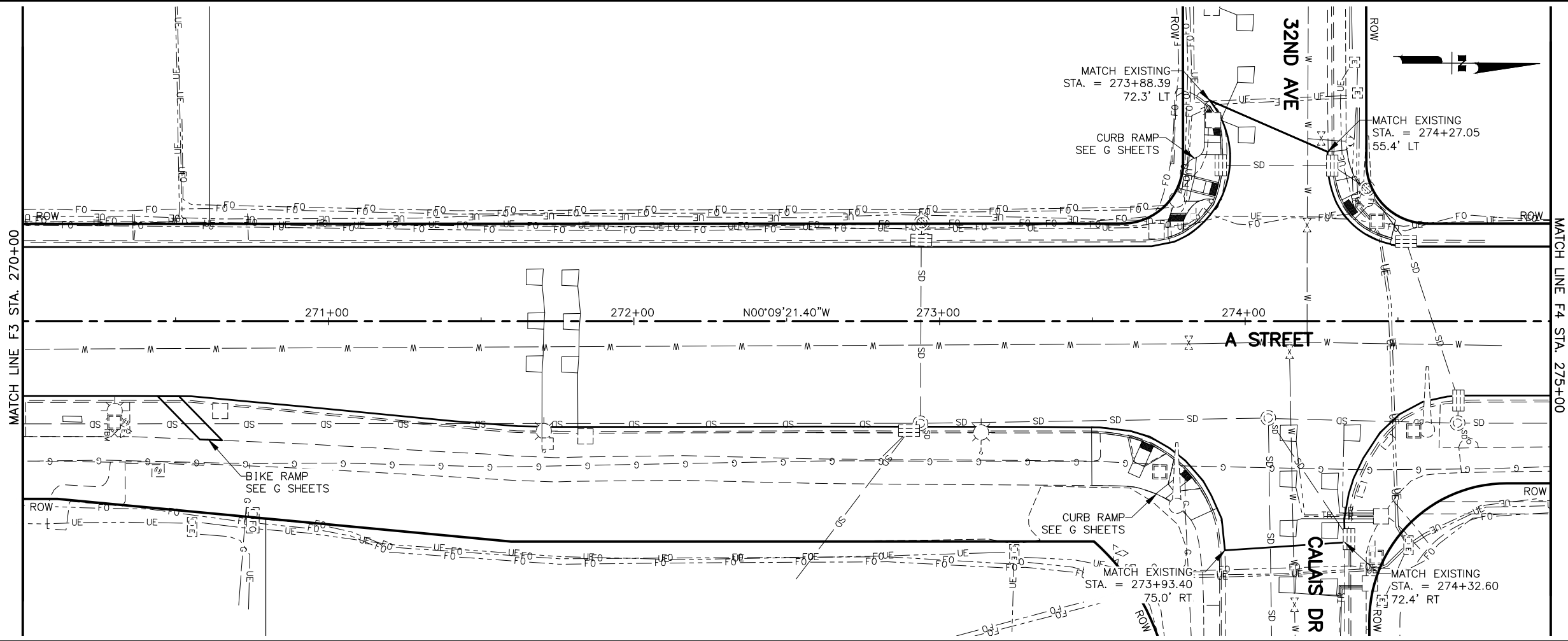
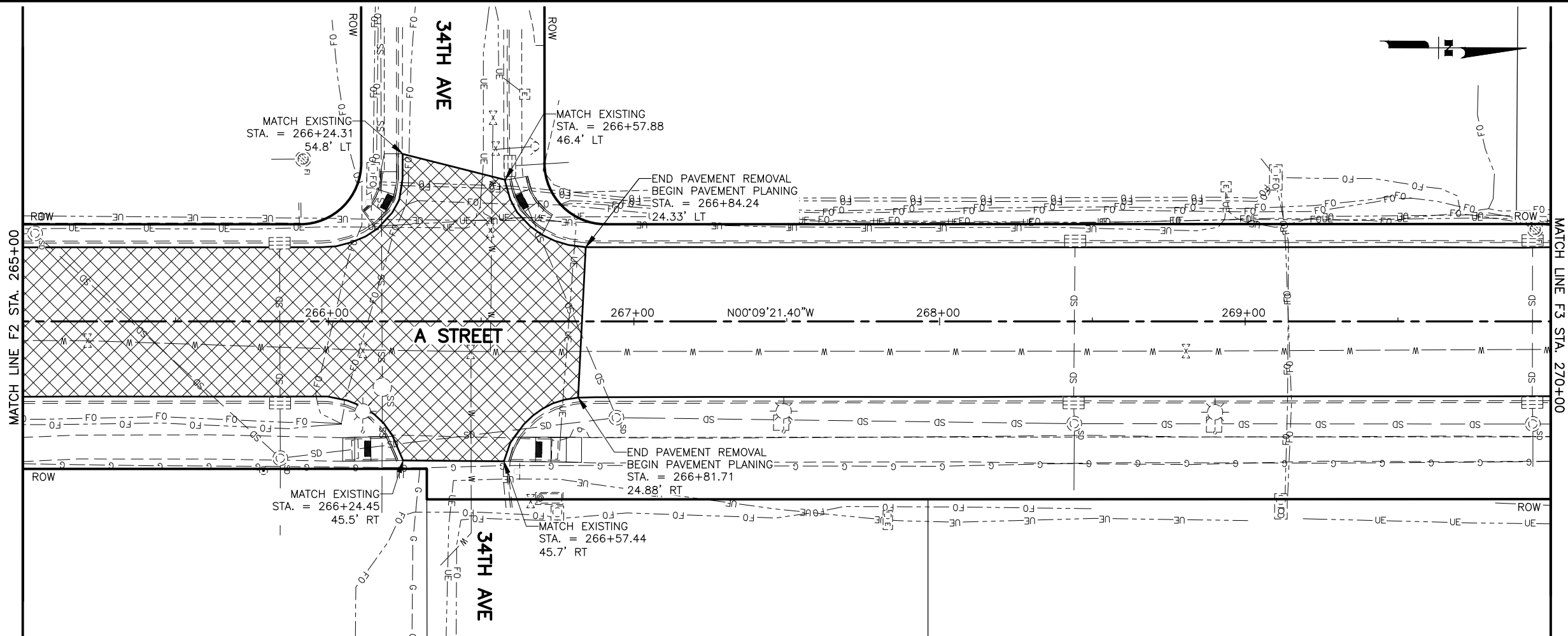
AND PUBLIC FACILITIES

A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

PLAN

STA. 255+00 - 265+00

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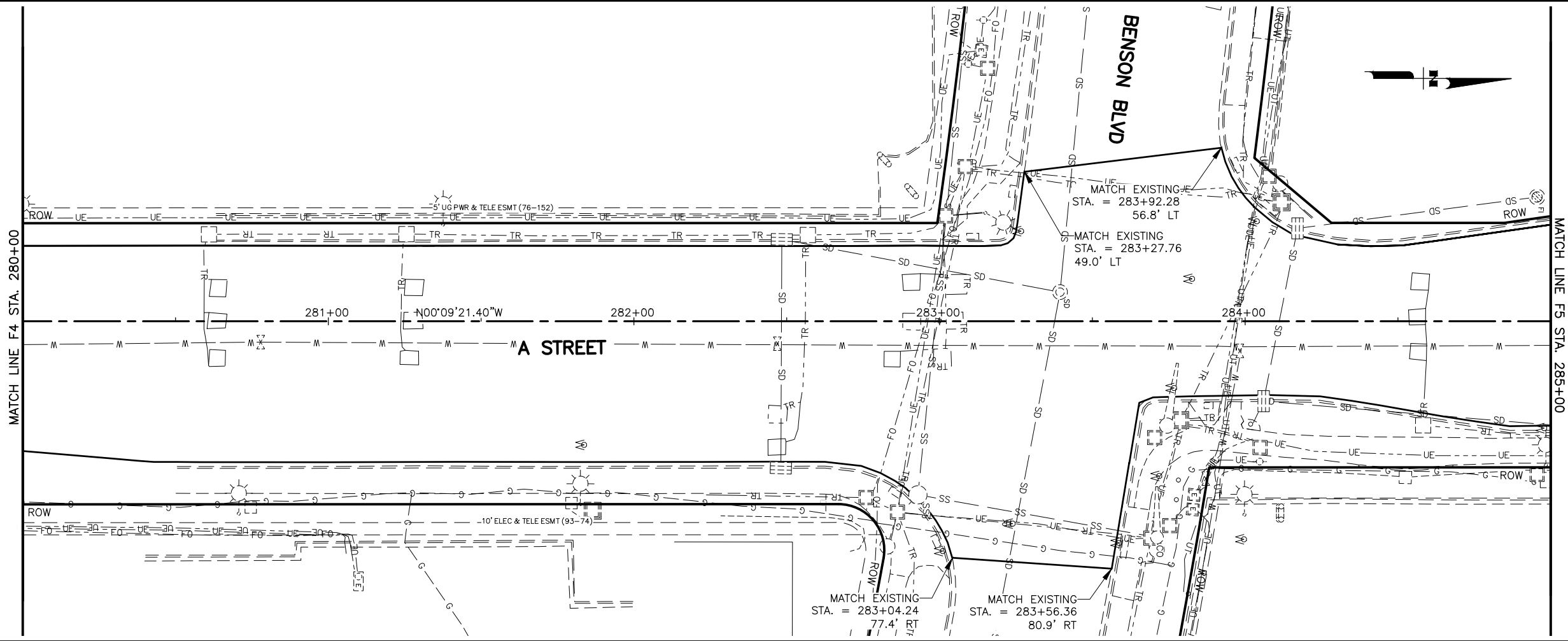
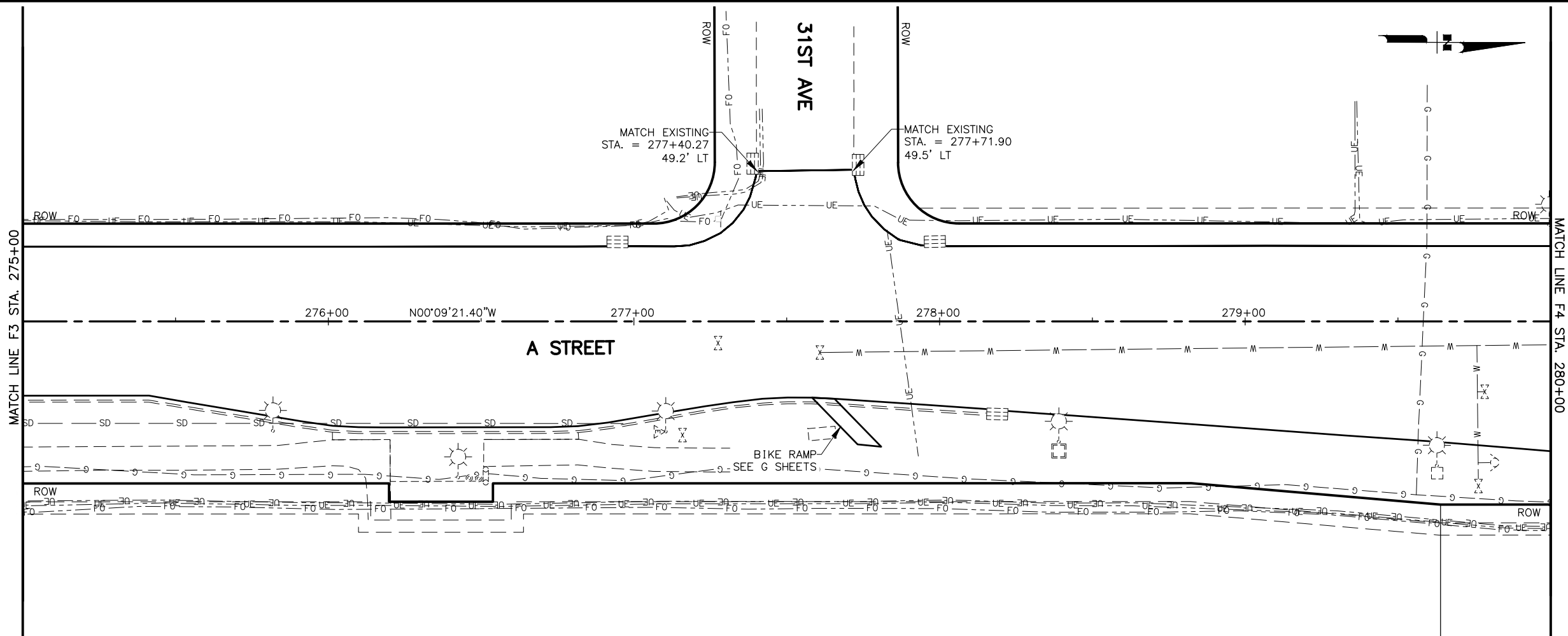
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F3	F5
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

PLAN
STA. 265+00 - 275+00



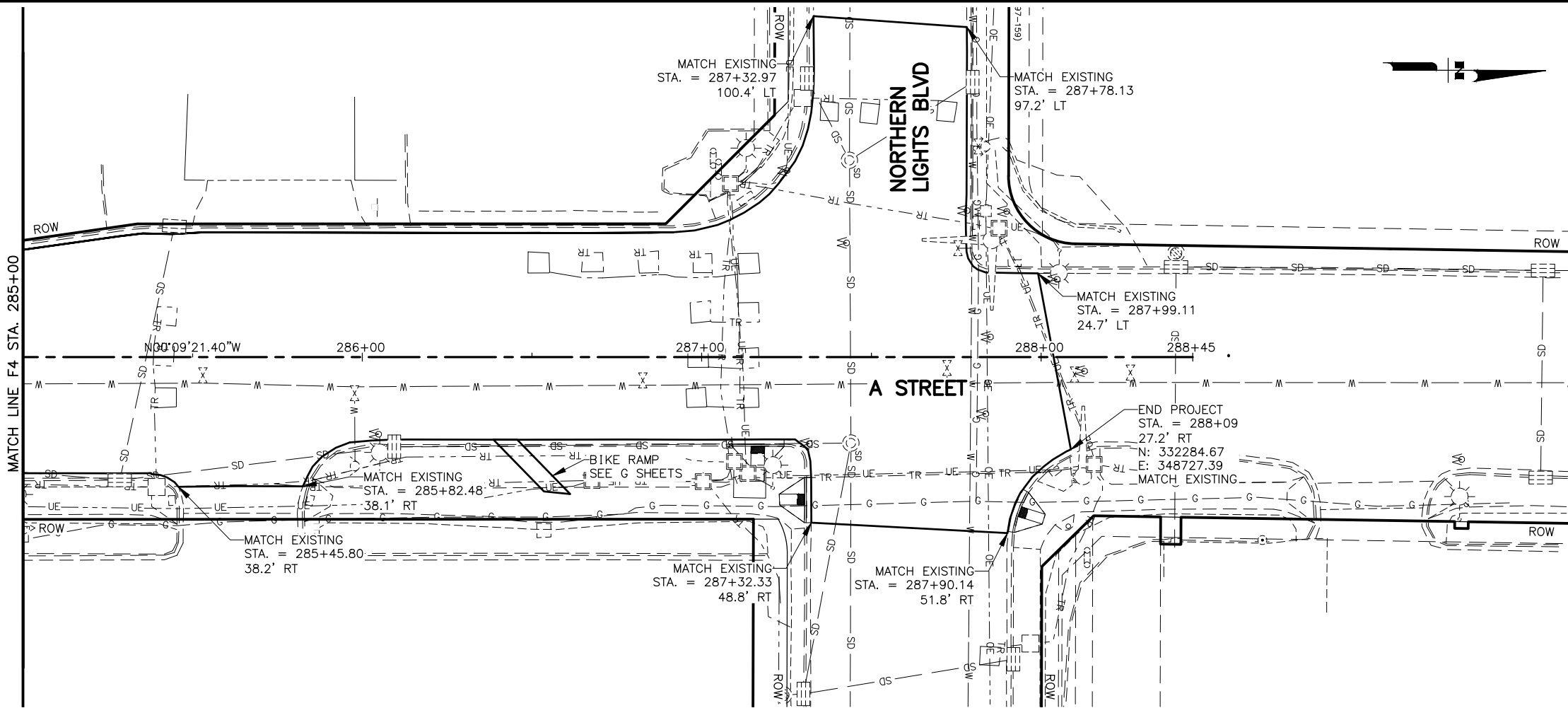
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STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

PLAN
STA. 275+00 - 285+00



SHEET NO.	TOTAL SHEETS
F5	F5
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

NORTHERN LIGHTS BOULEVARD
THIS SHEET
BENSON BOULEVARD
31ST AVENUE
32ND AVENUE
34TH AVENUE
36TH AVENUE
38TH AVENUE
40TH AVENUE
CALAIS DRIVE
A STREET

STATE OF ALASKA
49TH
PIH
DAVID J. GAMEZ
CE-107878
REGISTERED PROFESSIONAL ENGINEER

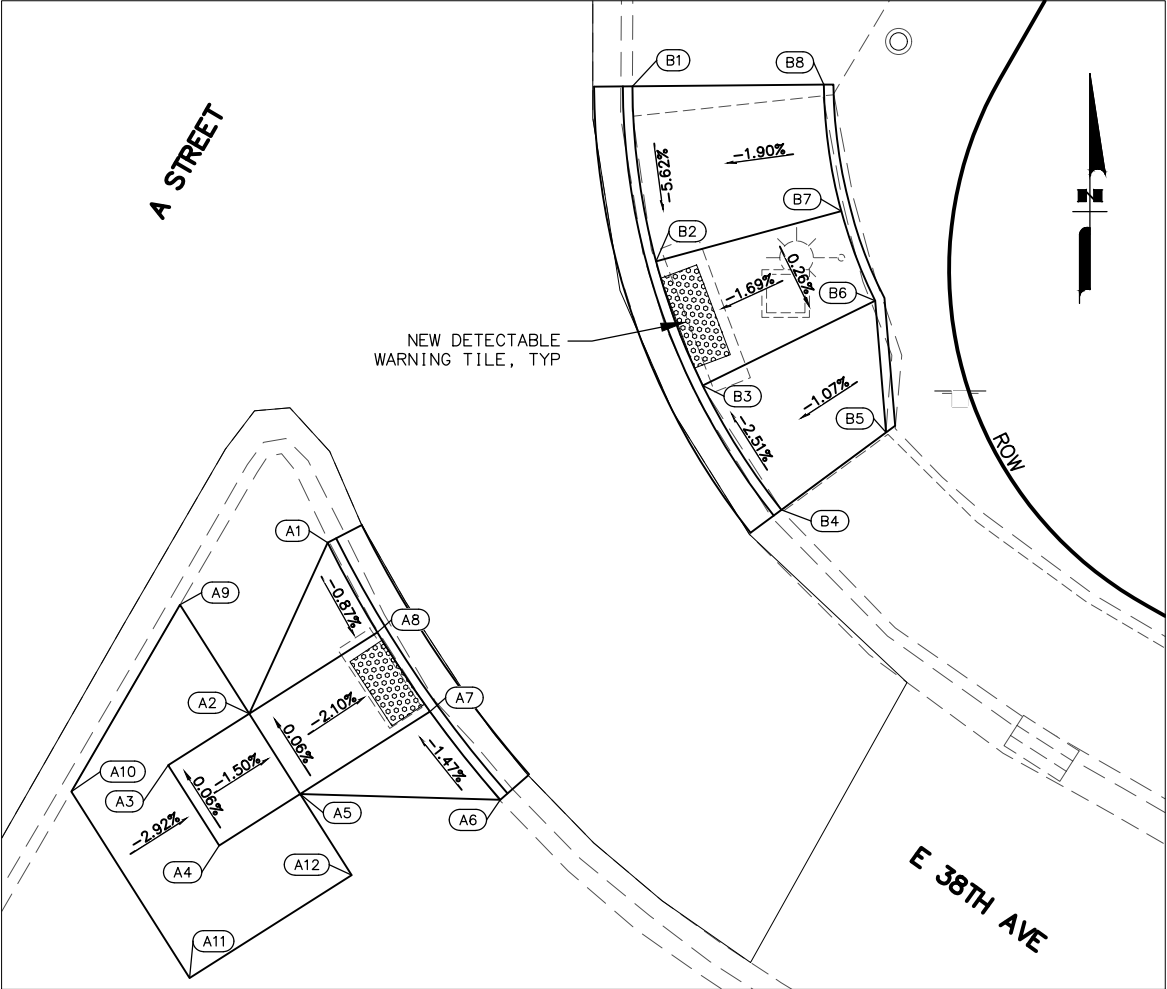
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

PLAN
STA. 285+00 – EOP

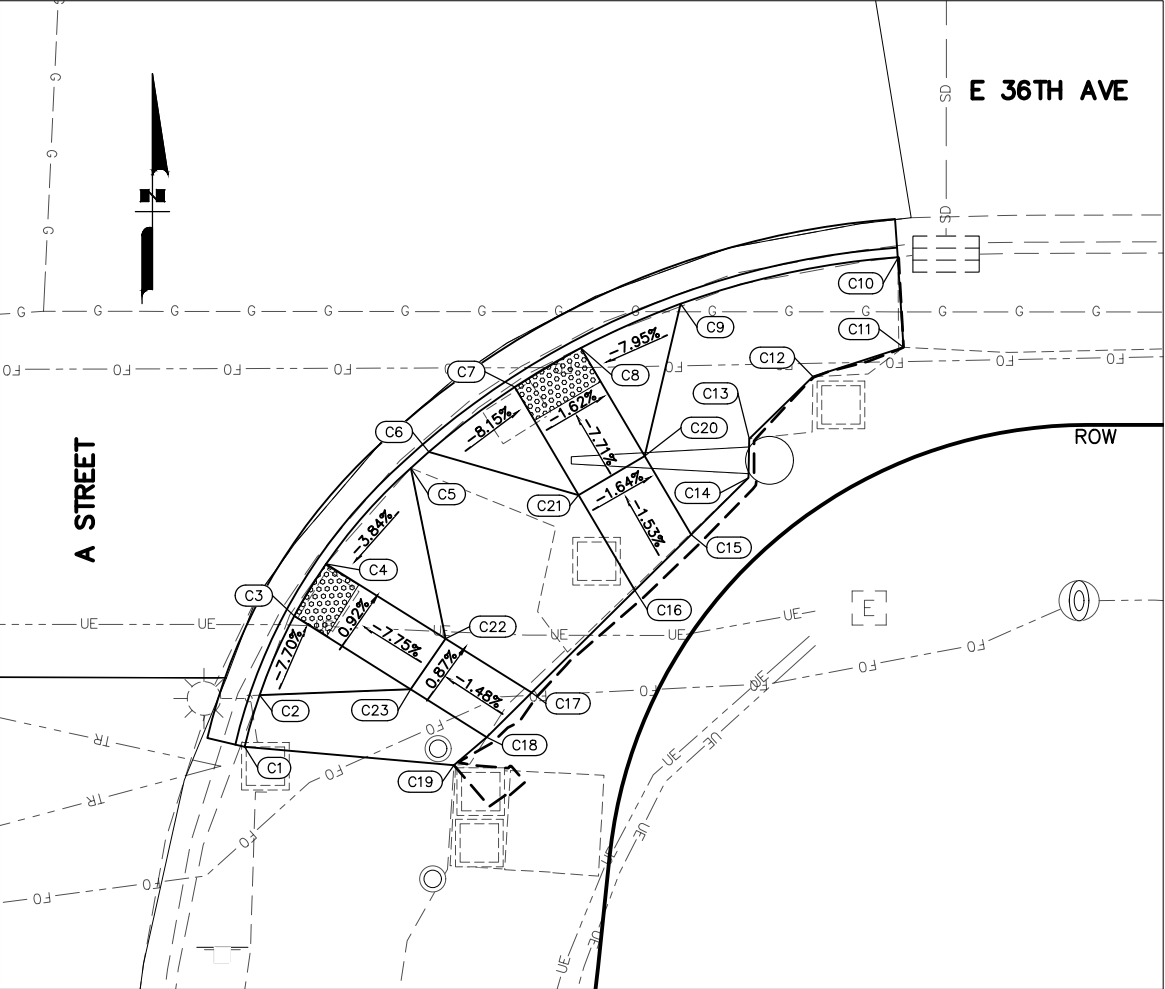
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	G1	G4



38TH AVENUE NORTHEAST QUADRANT

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
A1	328925.64	348484.51	ME	TBC
A2	328916.73	348480.42	ME	SW
A3	328914.05	348476.20	101.4'	SW
A4	328909.87	348478.85	101.4'	SW
A5	328912.55	348483.08	ME	SW
A6	328912.25	348493.50	ME	TBC
A7	328916.84	348489.84	101.1'	TBC
A8	328920.96	348487.09	101.2'	TBC
A9	328922.41	348476.82	ME	TBC
A10	328912.67	348471.15	ME	TBC
A11	328902.97	348477.31	ME	ME SW
A12	328908.33	348485.76	ME	ME SW

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
B1	328949.41	348500.38	ME	TBC
B2	328940.29	348501.61	100.5'	TBC
B3	328933.82	348504.05	100.6'	TBC
B4	328927.35	348508.15	ME	TBC
B5	328931.38	348513.60	ME	TOP OF SW
B6	328938.24	348513.03	100.7'	TOP OF SW
B7	328942.91	348511.26	100.7'	TOP OF SW
B8	328949.49	348510.36	ME	TOP OF SW



36TH AVENUE SOUTHEAST QUADRANT

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
C1	329535.27	348743.47	ME	SW
C2	329537.97	348744.25	98.2'	TBC
C3	329542.10	348746.05	97.8'	TBC
C4	329544.81	348747.71	97.8'	TBC
C5	329549.80	348752.13	ME	TBC
C6	329550.64	348753.07	98.1'	TBC
C7	329554.02	348757.54	97.6'	TBC
C8	329556.05	348760.98	97.6'	TBC
C9	329558.35	348766.18	ME	TBC
C10	329560.74	348777.50	ME	SW
C11	329556.09	348777.79	ME	SW
C12	329554.56	348773.08	ME	TOP OF SW

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
C13	329551.32	348769.76	98.1'	TOP OF SW
C14	329549.28	348769.72	98.1'	TOP OF SW
C15	329546.33	348766.73	98.2'	TOP OF SW
C16	329543.43	348763.80	98.2'	TOP OF SW
C17	329538.10	348758.43	98.5'	TOP OF SW
C18	329535.78	348756.08	98.5'	TOP OF SW
C19	329534.32	348754.37	ME	SW
C20	329550.42	348764.31	98.1'	TOP OF RAMP
C21	329548.39	348760.87	98.1'	TOP OF RAMP
C22	329540.91	348753.94	ME	TOP OF RAMP
C23	329538.28	348752.12	ME	TOP OF RAMP



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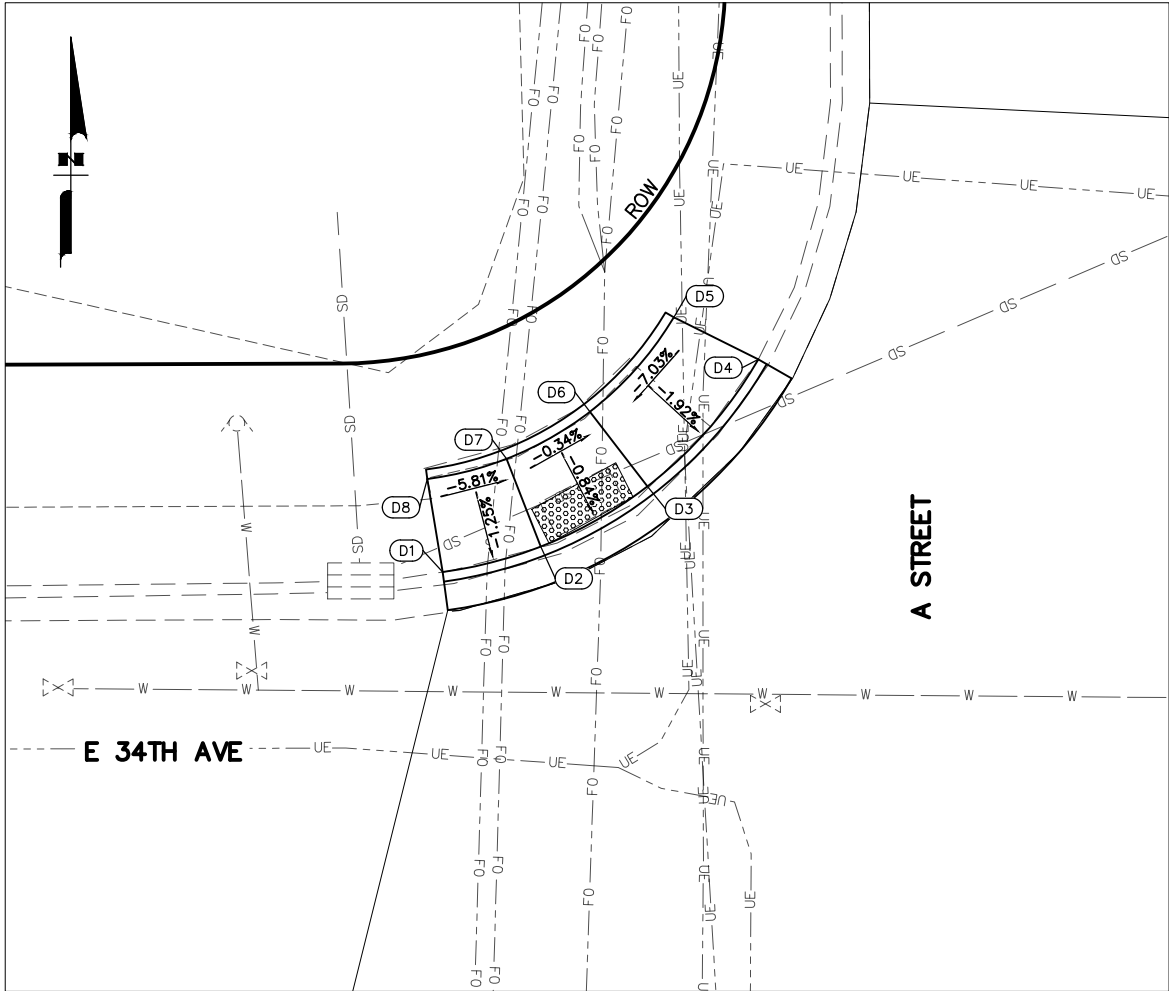
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

GRADING PLANS

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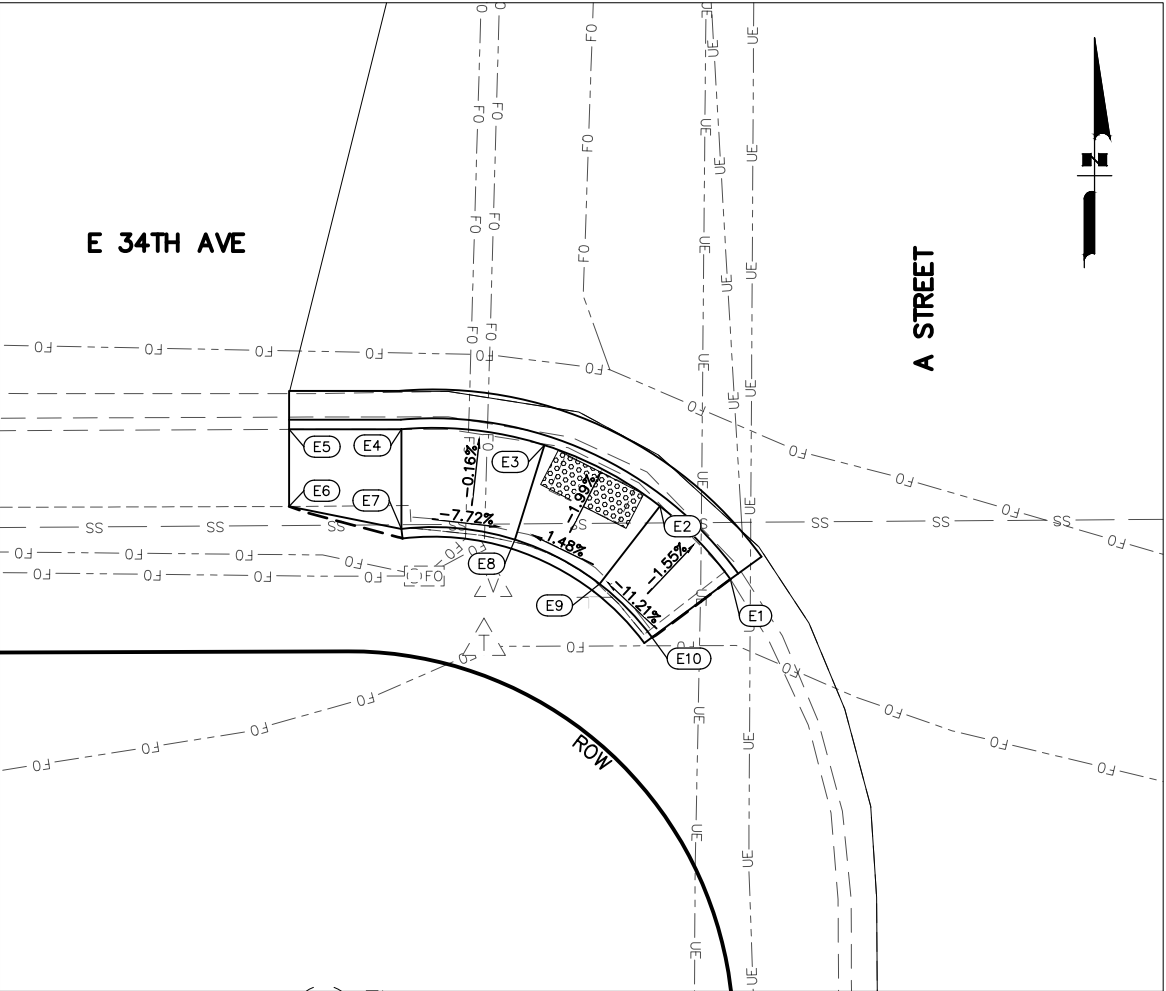
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34TH AVENUE NORTHWEST QUADRANT

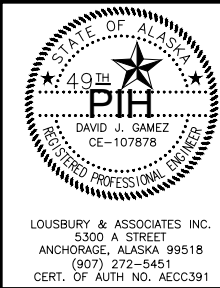
GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
D1	330135.58	348659.44	ME	TBC
D2	330136.90	348664.55	98.0'	TBC
D3	330140.04	348670.11	98.1'	TBC
D4	330146.66	348675.89	ME	TBC
D5	330148.84	348671.48	ME	TOP OF SW
D6	330143.92	348667.11	98.2'	TOP OF SW
D7	330141.47	348662.77	98.1'	TOP OF SW
D8	330140.42	348658.64	ME	TOP OF SW

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	G2	G4



34TH AVENUE SOUTHWEST QUADRANT

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
E1	330090.19	348674.29	ME	TBC
E2	330094.00	348670.62	97.6'	TBC
E3	330097.18	348664.61	97.7'	TBC
E4	330098.01	348657.15	ME	TBC
E5	330098.00	348651.30	ME	TBC
E6	330093.98	348651.30	ME	SW
E7	330092.81	348657.15	98.2'	TOP OF SW
E8	330092.25	348663.06	97.8'	TOP OF SW
E9	330089.95	348667.48	97.7'	TOP OF SW
E10	330087.16	348670.21	97.9'	TOP OF SW



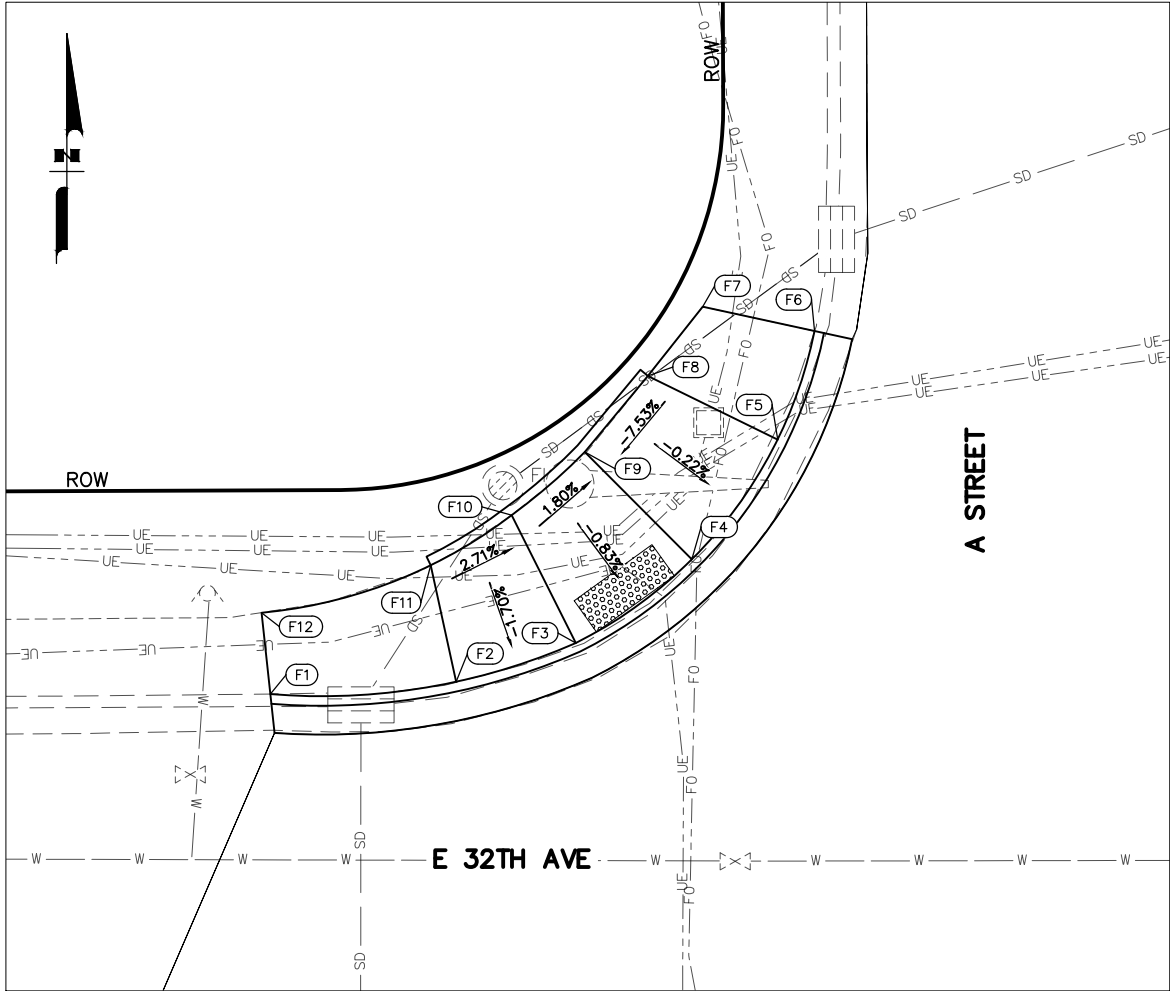
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

GRADING PLANS

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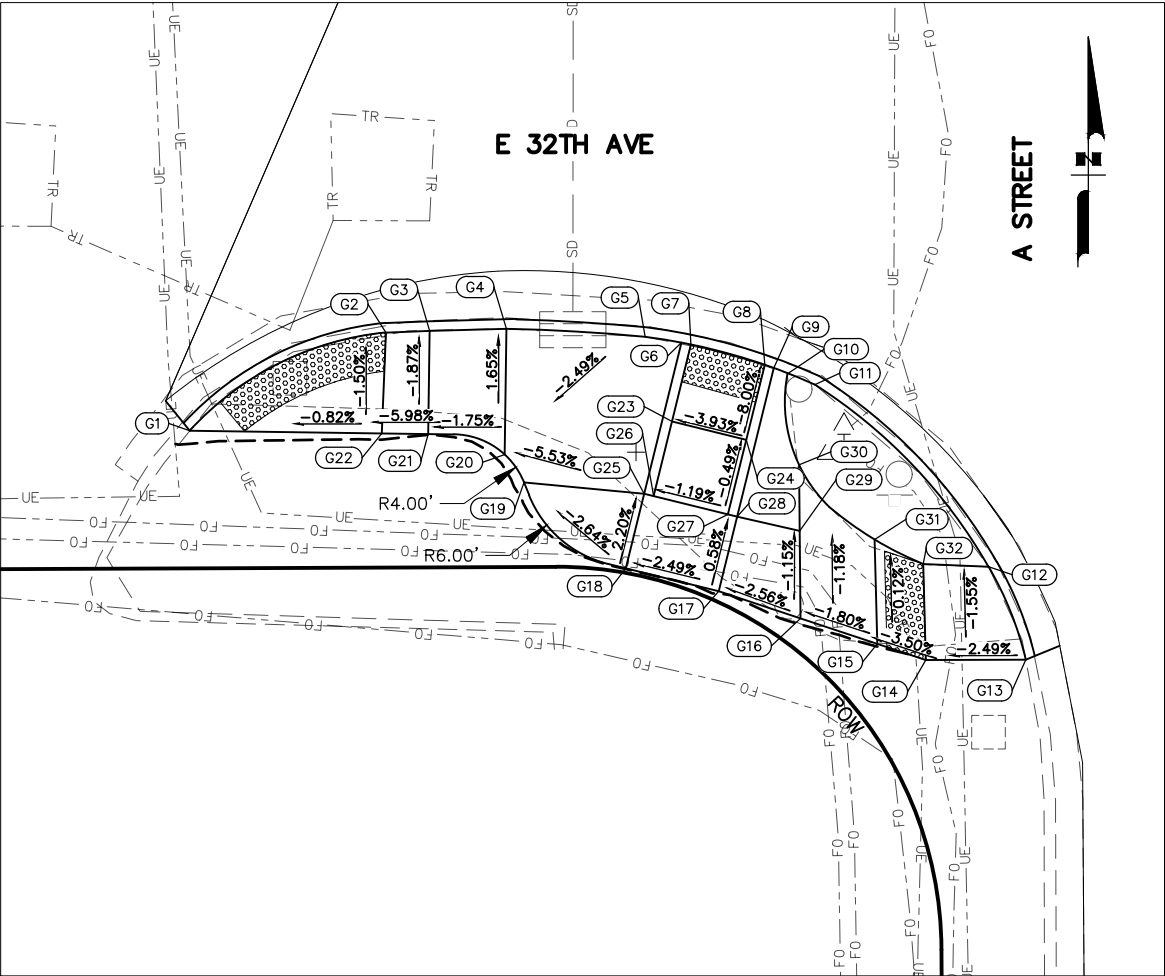
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	G3	G4



32ND AVENUE NORTHWEST QUADRANT

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
F1	330904.76	348648.31	ME	TBC
F2	330905.40	348657.98	97.9'	TBC
F3	330907.42	348664.22	97.9'	TBC
F4	330911.78	348670.26	98.3'	TBC
F5	330918.01	348674.74	98.5'	TBC
F6	330923.67	348676.65	ME	TBC
F7	330924.94	348670.83	ME	TOP OF CURB
F8	330921.33	348667.97	98.4'	TOP OF CURB
F9	330917.37	348664.68	98.0'	TOP OF CURB
F10	330914.08	348660.88	98.0'	TOP OF CURB
F11	330911.47	348656.66	98.0'	TOP OF CURB
F12	330909.00	348647.85	ME	SW

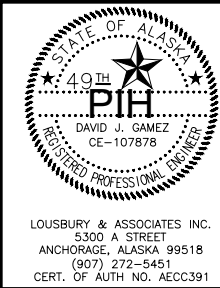


32ND AVENUE SOUTHWEST QUADRANT

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
G1	330862.48	348633.04	97.5'	TBC
G2	330867.59	348643.26	97.5'	TBC
G3	330867.68	348645.53	97.6'	TBC
G4	330867.79	348649.53	ME	TBC
G5	330867.37	348656.75	ME	TBC
G6	330867.07	348658.65	97.7'	TBC
G7	330866.98	348659.14	97.6'	TBC
G8	330865.92	348662.99	97.8'	TBC
G9	330865.75	348663.46	97.9'	TBC
G10	330865.46	348664.20	98.0'	TBC
G11	330864.88	348665.60	ME	TBC

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
G12	330855.40	348674.64	98.4'	TBC
G13	330850.55	348676.58	98.5'	TBC
G14	330850.54	348671.37	98.4'	TOP OF SW
G15	330851.38	348668.85	98.3'	TOP OF SW
G16	330852.71	348664.85	98.2'	TOP OF SW
G17	330854.12	348660.59	98.1'	TOP OF SW
G18	330855.32	348655.75	98.0'	TOP OF SW
G19	330859.79	348650.45	97.8'	TOP OF SW
G20	330861.24	348649.44	97.7'	TOP OF SW
G21	330862.31	348645.46	97.7'	TOP OF SW
G22	330862.34	348643.04	97.6'	TOP OF SW

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
G23	330862.96	348658.15	98.0'	TOP OF CURB
G24	330862.01	348662.02	98.1'	TOP OF CURB
G25	330859.20	348656.71	98.1'	TOP OF RAMP
G26	330859.08	348657.19	98.1'	TOP OF RAMP
G27	330858.13	348661.06	98.1'	TOP OF RAMP
G28	330858.01	348661.55	98.2'	TOP OF RAMP
G29	330857.26	348664.81	98.2'	TOP OF RAMP
G30	330860.70	348664.77	ME	TOP OF SW
G31	330856.82	348668.71	ME	TOP OF SW
G32	330855.54	348671.24	ME	TOP OF SW



STATE OF ALASKA
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A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

GRADING PLANS

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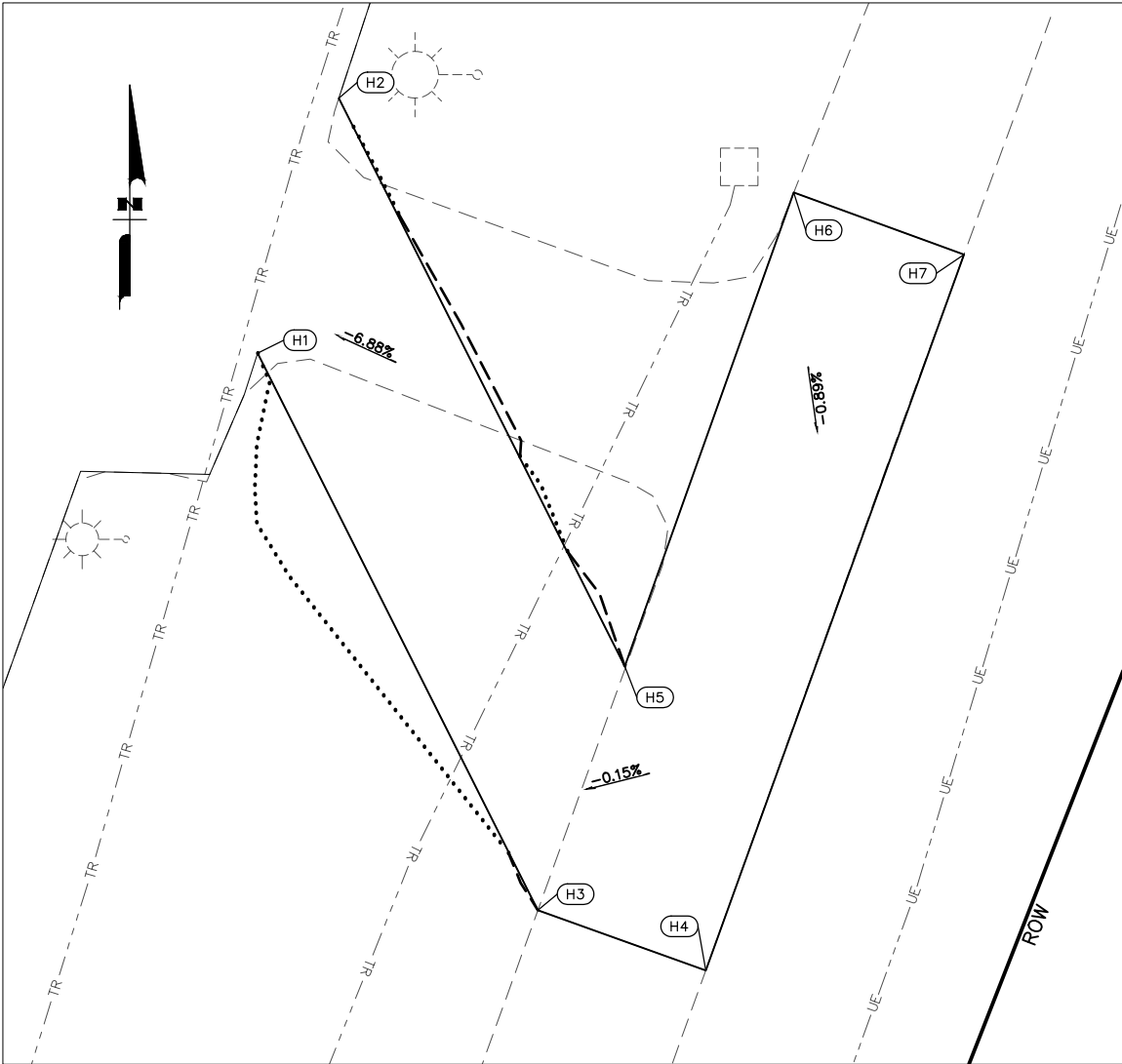
LAYOUTG4

DESIGNED

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	G4	G4



BUS STOP AT NE CORNER OF 40TH AVE

GRADING POINTS TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
H1	328416.35	348245.23	ME	EOP
H2	328429.97	348249.57	ME	EOP
H3	328386.61	348260.20	ME	SW
H4	328383.39	348269.16	ME	SW
H5	328399.63	348264.84	ME	SW
H6	328424.93	348273.86	ME	SW
H7	328421.62	348282.94	ME	SW

STATE OF ALASKA

49TH

PIH

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**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

GRADING PLANS

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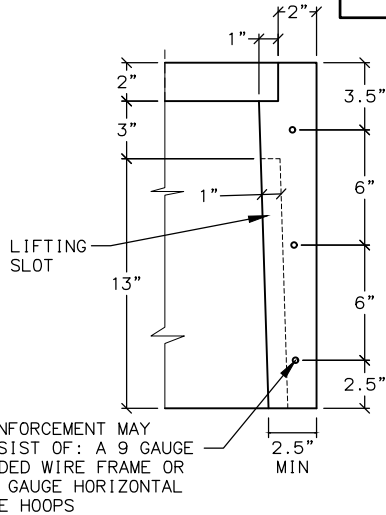
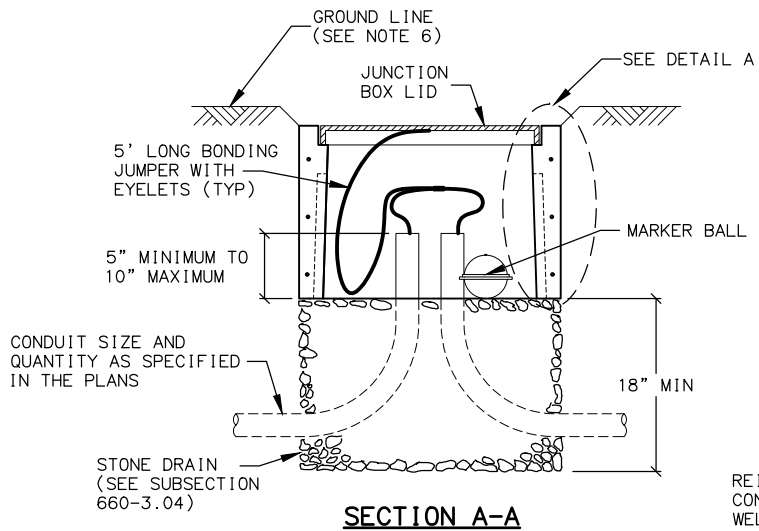
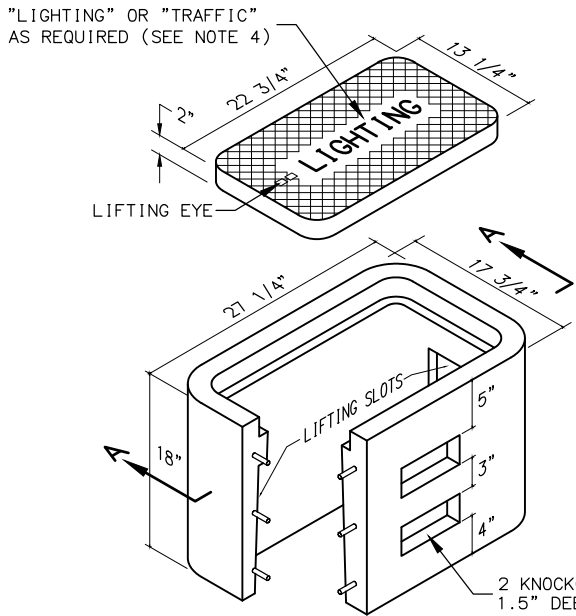
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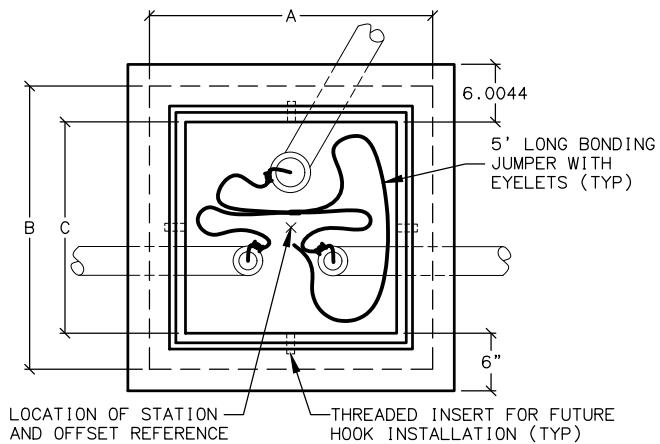
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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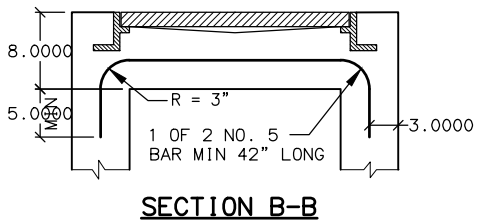


DETAIL A

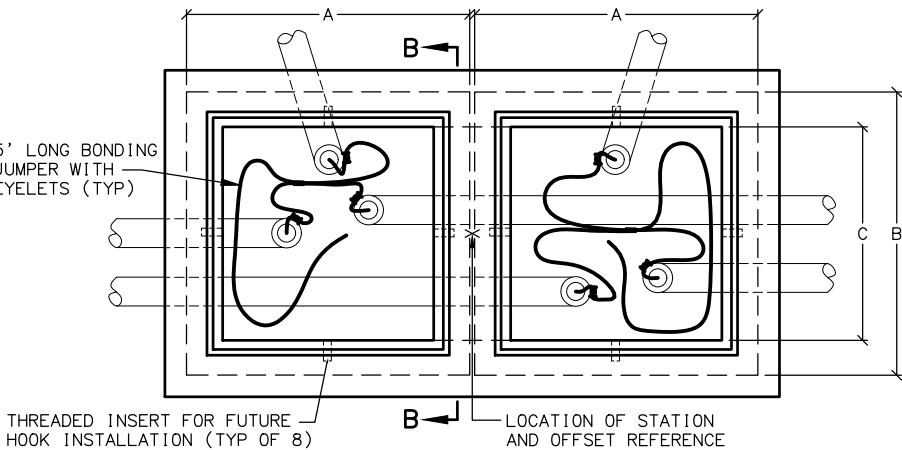
TYPE IA JUNCTION BOX



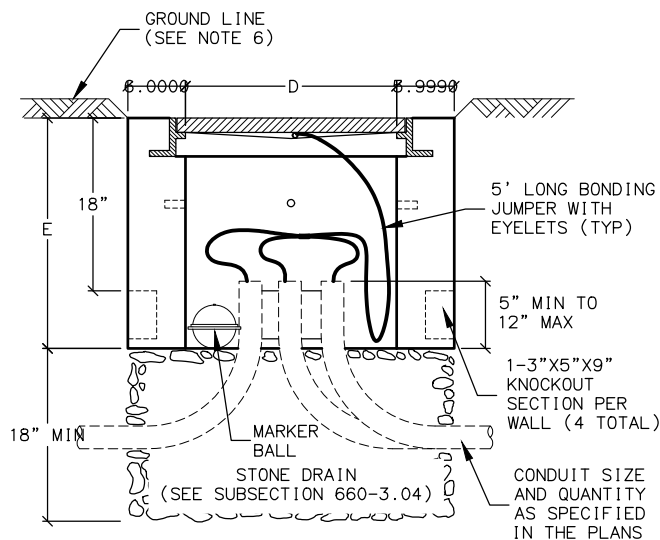
PLAN



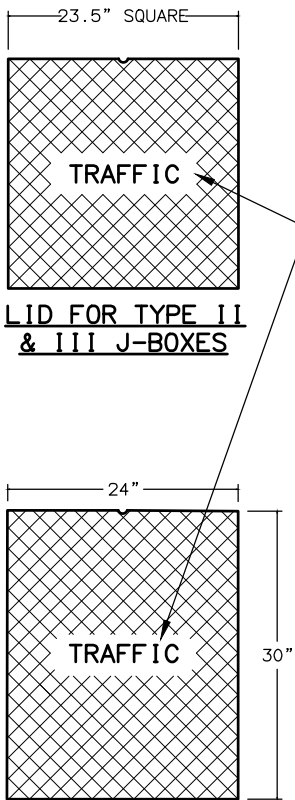
SECTION B-B



PLAN

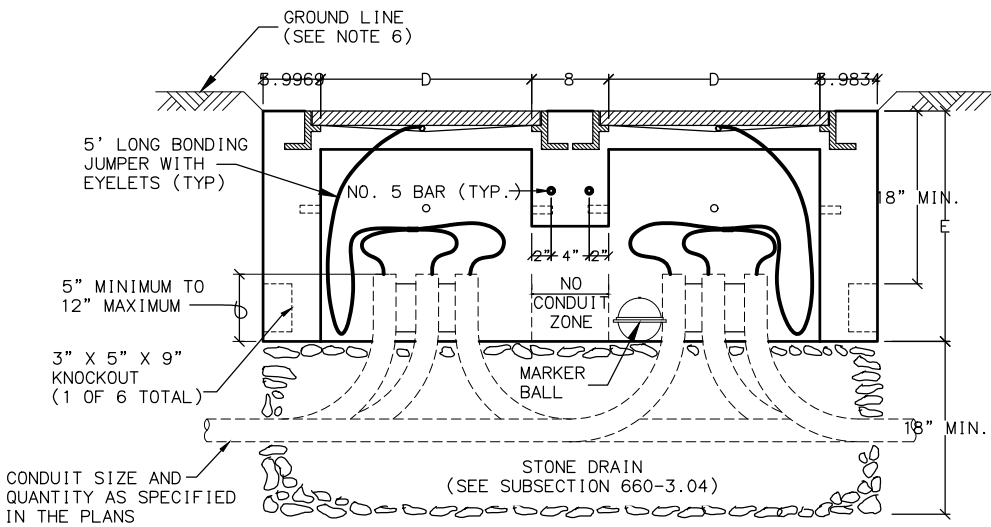


TYPE II JUNCTION BOX
ELEVATION



LID FOR TYPE IV
J-BOXES

"LIGHTING" OR "TRAFFIC"
AS REQUIRED (SEE NOTE 4)



TYPE III/IV JUNCTION BOX
ELEVATION (TYPE III LAYOUT DEPICTED)

NOTES:

1. AVOID INSTALLING TYPE IA JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660-3.04.
2. FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
3. CONSTRUCT JUNCTION BOXES ACCORDING TO SECTION 501 USING CLASS A CONCRETE. REINFORCE TYPE IA JUNCTION BOXES AS SHOWN. SYNTHETIC STRUCTURAL FIBER-REINFORCED CONCRETE THAT MEETS ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH.
4. FOR JUNCTION BOXES THAT CONTAIN ILLUMINATION CONDUCTORS EXCLUSIVELY, FURNISH LIDS WITH THE WORD "LIGHTING" INSCRIBED INTO THEM. FOR OTHER JUNCTION BOXES, FURNISH LIDS WITH THE WORD "TRAFFIC" INSCRIBED INTO THEM.
5. UNDER JUNCTION BOXES, INSTALL STONE DRAINS THAT CONSIST OF POROUS BACKFILL MATERIAL CONFORMING TO SUBSECTION 703-2.10.
6. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
1" IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
1/4" IN PEDESTRIAN FACILITIES
2" IN ALL OTHER AREAS
7. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660-3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH BRASS OR STAINLESS STEEL HARDWARE.
8. INSTALL LOOP DETECTOR TAILS THROUGH ONE OF THE KNOCKOUTS OF TYPE IA JUNCTION BOXES. AFTER SETTING THE BOXES TO GRADE, INSTALL GROUT IN THE GAPS THAT REMAIN IN THE KNOCKOUT.
9. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
10. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660-3.04.
11. PRIOR TO INSTALLATION MARK ALL JUNCTION BOX LOCATIONS WITH A WIRE STAFF VINYL FLAG. THE FLAG SHALL BE RED IN COLOR AND MINIMUM 4-INCHES TALL BY 5-INCHES WIDE. THE WIRE STAFF SHALL BE 21-INCHES IN LENGTH AND CONSTRUCTED OF MINIMUM 15.5 GAUGE STEEL.
12. WHERE MODIFIED TYPE II JUNCTION BOXES ARE REQUIRED FOR DETECTOR LOOP TAIL INSTALLATIONS, ADD ONE(1) ADDITIONAL 5" DEEP X 3" HIGH X 18" WIDE KNOCKOUT 12" BELOW TOP OF JUNCTION BOX.

J-BOX DIMENSIONS					
J-BOX TYPE	DIMENSIONS				
	A (MAX.)	B (MAX.)	C (MIN.)	D (MIN.)	E (MIN.)
II	29 1/2"	29 1/2"	22"	22"	24"
III	29 1/2"	29 1/2"	22"	22"	24"
IV	30"	36"	30"	24"	30"



LOUSBURY & ASSOCIATES INC.
5300 A STREET
ANCHORAGE, ALASKA 99518
(907) 272-5451
CERT. OF AUTH NO. AECC391

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**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

JUNCTION BOX DETAILS

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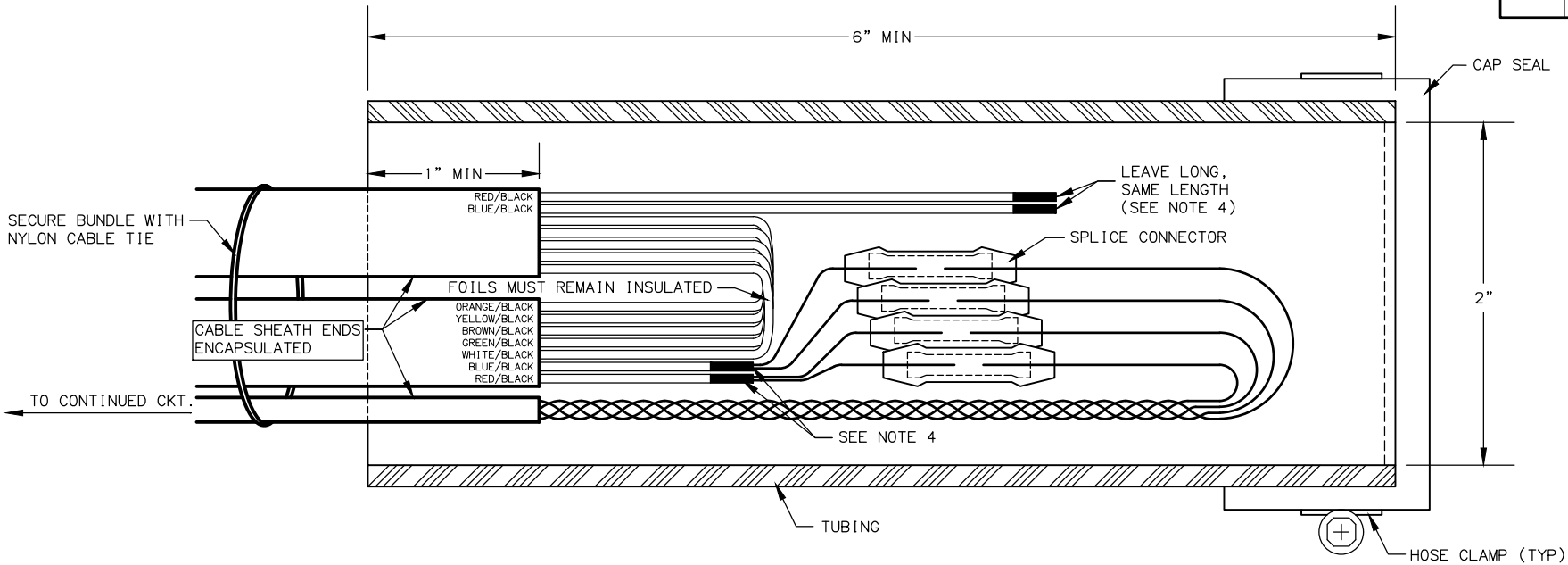
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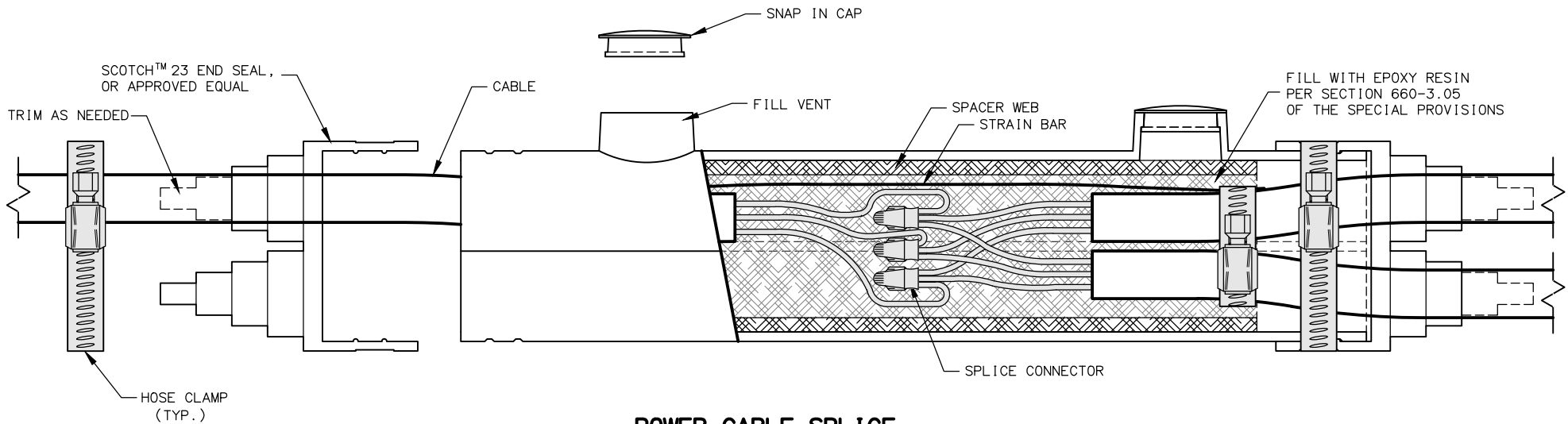
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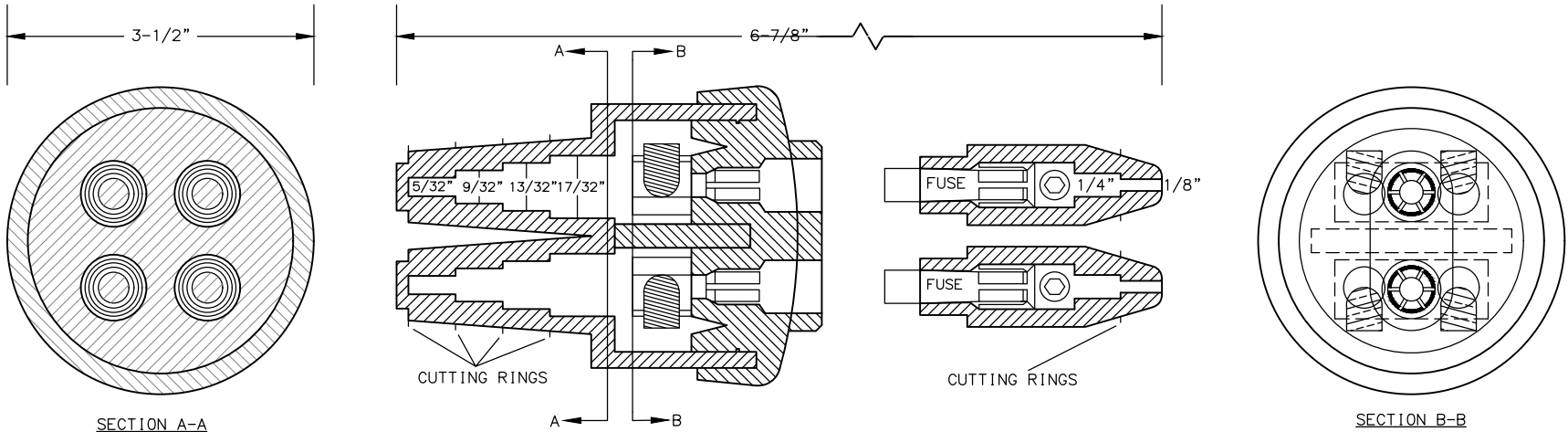
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LOOP LEAD-IN SPLICE



POWER CABLE SPLICE

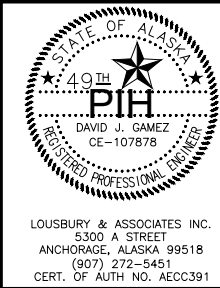


DOUBLE FUSED CONNECTOR

NOTES:

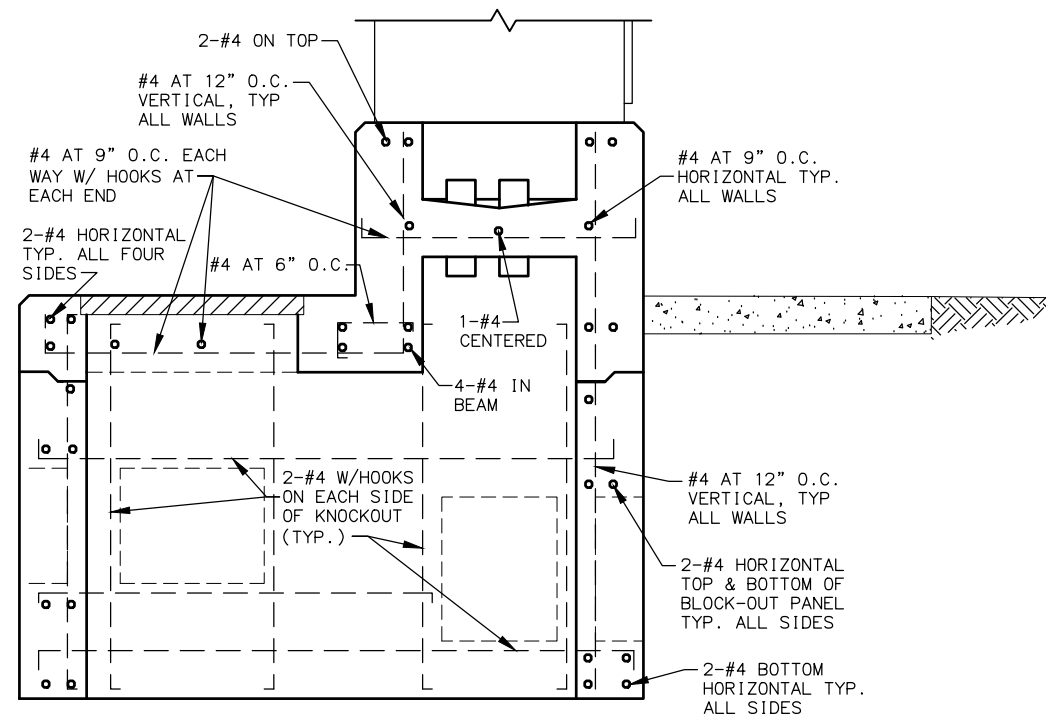
- LOOP LEAD-IN SPLICE
1. FABRICATE LOOP LEAD-IN SPLICE IN THE FIELD AS SHOWN.
 2. CAP SEAL ONE END AND COMPLETELY FILL OPEN END WITH RE-ENTERABLE ENCAPSULATION COMPOUND TO EDGE OF TUBING.
 3. LEAVE A MINIMUM OF 1/2" CLEARANCE BETWEEN THE ENCLOSURE AND THE SPLICE AT BOTH ENDS OF THE TUBING.
 4. EXPOSE FOIL AND DRAIN WIRES, SEAL WITH HEAT SHRINK TUBING (TYP.).
 5. INSTALL SPLICE CONNECTORS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- POWER CABLE SPLICE
6. SECURE CABLE/CONNECTOR BUNDLE WITH HOSE CLAMPS AS SHOWN.

MATERIAL PROPERTIES	
LOOP LEAD-IN SPLICE	
TUBING	PER SECTION 660-3.05
CAP SEAL	FERNCO QWIK CAP #QC-102, OR APPROVED EQUAL
HOSE CLAMP	STAINLESS STEEL
SPLICE CONNECTOR	ML56-16, OR APPROVED EQUAL
COMPOUND	RE-ENTERABLE ENCAPSULATION
POWER CABLE SPLICE	
SPLICE KIT	3M MODEL 78R, OR APPROVED EQUAL
SPLICE CONNECTOR	SCOTCHLOCK G, R, OR Y SPRING CONNECTOR, OR APPROVED EQUAL
HOSE CLAMP	(4)- STAINLESS STEEL
EPOXY RESIN	PER SECTION 660-3.05
DOUBLE FUSED CONNECTOR	
DOUBLE FUSED CONNECTOR	SEC-1791-DF-1, OR APPROVED EQUAL
FUSES	(2) - COMPATIBLE 10-AMP



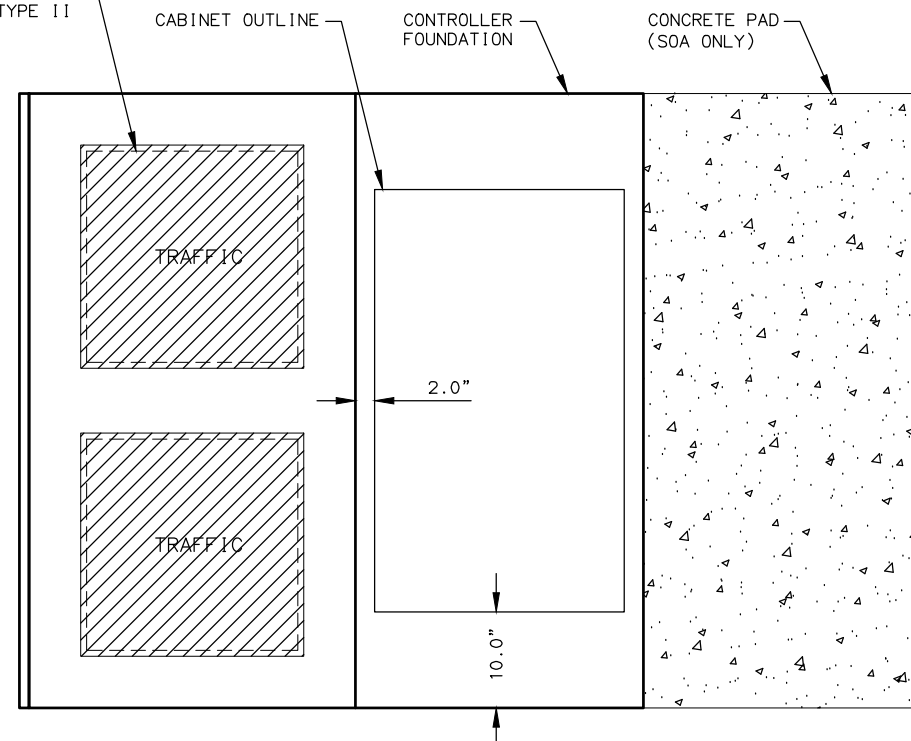
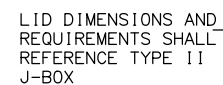
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SPLICE DETAILS



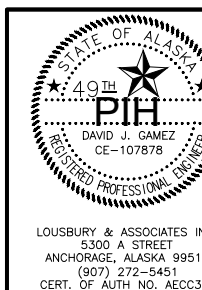
SECTION B-B
NOTE: SEE SECTION A-A FOR DIMENSIONAL DETAILS

- ## NOTES:
1. ANCHOR BOLTS SHALL NOT PROTRUDE MORE THAN 1.5" ABOVE THE TOP OF THE FOUNDATION. ANCHOR BOLT DIMENSIONS SHALL BE AS SPECIFIED BY THE CABINET MANUFACTURER.
 2. SEAL UNUSED CONDUIT STUBS WITH WATERTIGHT CAPS. SEAL STUBS CARRYING CONDUCTORS WITH WATERTIGHT SEALING BUSHINGS DESIGNED TO SEAL AROUND CONDUCTORS AND AGAINST THE CONDUIT WALLS.
 3. ROUTE THE FIVE FOOT COPPER GROUNDING JUMPER THROUGH THE 2" PIPE NIPPLE AND ATTACH IT TO THE GROUNDING BUSHING ON THE FEEDER CONDUIT.
 4. STOP HORIZONTAL & VERTICAL STEEL AT THE BLOCK-OUT PANELS & THE JOINT USING 90 DEGREE HOOKS. USE 2 EXTRA #4 HORIZONTAL & VERTICAL BARS. ALL SIDES AS SHOWN.
 5. INSTALL TRAFFIC CONTROLLER CABINET FOUNDATION WITHIN 1-DEGREE OF PLUMB AND ORIENTED AS SHOWN IN PLANS SUCH THAT CABINET DOOR OPENS AWAY FROM INTERSECTION/TRAFFIC.
 6. FOR SIGNALS IN THE MUNICIPALITY OF ANCHORAGE (MOA) ORIENT CABINET DOOR TO FACE J-BOX LIDS AND DO NOT PROVIDE CONCRETE PAD.
 7. INSTALL #6 AWG COPPER GROUNDING ELECTRODE CONDUCTOR (GEC), OR SIZE PER NEC TABLE 250.66, WHICHEVER IS LARGER.
 8. THE REINFORCING BARS WITHIN THE CONCRETE FOUNDATION MUST BE CONNECTED TOGETHER BY EFFECTIVE MEANS AND WILL BECOME PART OF THE GROUNDING ELECTRODE SYSTEM PER NEC 250.50 AND 250.52(A)(3). INSTALL AN IRREVERSIBLE COMPRESSION GROUNDING CONNECTOR, NRTL-LISTED FOR DIRECT BURIAL IN EARTH AND CONCRETE, TO CONNECT THE REINFORCING BARS TO THE GEC. INSTALL A COPPER GEC, SIZED PER NEC 250.66 BUT NOT SMALLER THAN #6 AWG, BETWEEN THE COMPRESSION CONNECTOR AND THE LOAD CENTER NEUTRAL.



PLAN VIEW

MATERIAL PROPERTIES		
CONCRETE	CLASS A	$F'_c = 4000 \text{ psi}$
REINFORCING STEEL	AASHTO M31 GRADE 60	$F_y = 60 \text{ ksi}$
CONDUIT	RMC	
BONDING JUMPERS	3M-25T BBE6 OR EQUAL	



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CONTROLLER CABINET
FOUNDATION DETAILS

SIZE 6 OR 7 CONTROLLER CABINET FOUNDATION
NOTE: BOLT SPACING DIMENSIONS SHOWN FOR TS2 CONTROLLER CABINETS.

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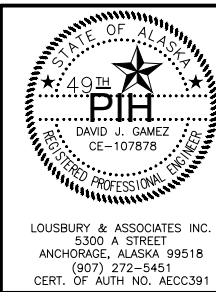
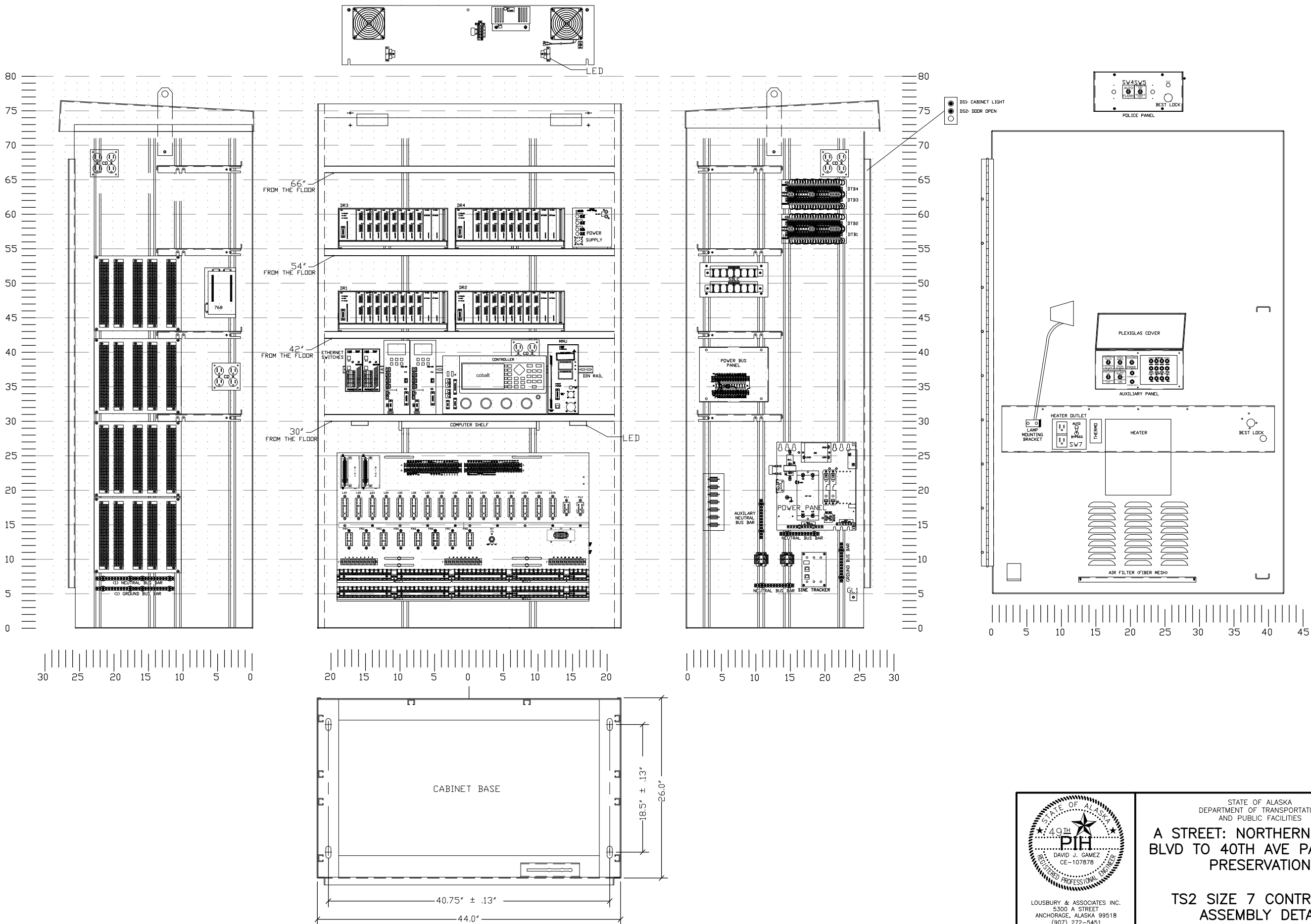
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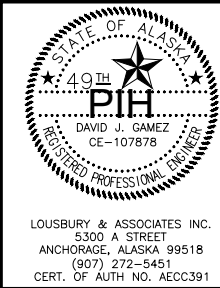
**TS2 SIZE 7 CONTROLLER
ASSEMBLY DETAIL**

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CONTROLLER CABINET FEATURES	
GENERAL OPTIONS	
TYPE	TS2-1
SIZE	NEMA SIZE 6
MATERIALS	0.125" NATURAL ALUMINUM
MODEL	WESTERN SYSTEMS NEMA TS2-1P
EXTENDER BASE	NONE
MOUNTING HARDWARE	INCLUDED
PAINT	YES-SEE SPECIAL PROVISIONS
SPECIAL OPTIONS	
LIFTING TABS	INCLUDED
EQUIPMENT SHELF	(2) FULL WIDTH, (1) LAPTOP DRAWER
AIR FILTER	FIBER MESH
MAIN DOOR LOCK	BEST
REAR DOOR	NONE
LED LIGHT FIXTURES	SEE SPECIAL PROVISIONS FOR OTHER REQUIREMENT
MAIN PANEL	
MAIN PANEL POSITION	16-POSITION HORIZONTAL
FLASH TRANSFER RELAYS SOCKETS	(8) INCLUDED
FLASHER SOCKET	(1) INCLUDED
R1 RELAY SOCKET	INCLUDED
POWER PANEL	
SURGE SUPPRESSION	SHP300-10
LINE FILTER (RADIO INTERFERENCE)	50A
SOLID STATE CONTACTOR	NORMALLY OPEN, 50A
MAIN CIRCUIT BREAKER	40A
AUXILIARY CIRCUIT BREAKER	20A
3 POSITION TERMINAL BLOCK FOR INCOMING POWER, #2-#8 U.S.G.	INCLUDED
16 POSITION NEUTRAL BUS BAR	INCLUDED
16 POSITION CHASSIS GROUND BUS BAR	INCLUDED
POLICE PANEL	
POLICE PANEL SWITCHES	SIGNALS ON/OFF, AUTO/FLASH
POLICE PANEL PUSHBUTTON ALARM	NONE
POLICE DOOR LOCK	CONVENTIONAL (SKELETON KEY)
POLICE PANEL MANUAL CORD	NONE
AUXILIARY PANEL	
AUXILIARY PANEL SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD, CABINET LIGHT, HEATER BYPASS
DETECTOR TEST SWITCHES	TACTILE PUSHBUTTON
FORCE OFF SWITCHES	TACTILE PUSHBUTTON
RACK DETECTION	
DETECTOR RACKS	FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO THE THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM.
DETECTOR RACK POWER SUPPLY	BIU FOR EACH RACK
EVP REQUIREMENTS	WIRING FOR GREEN SENSE MONITORING
ADDITIONAL OPTIONS	
RAILROAD PREEMPTION	INCLUDED
RAILROAD PREEMPTION/STAND ALONE PANEL	NO
RED JUMPERS FOR ALL UNUSED PHASES	INCLUDED
LOAD RESISTORS	(8) INCLUDED - LEFT SIDE OF CABINET
HEATER RECEPTACLE (SINGLE)	INCLUDED - RIGHT SIDE OF CABINET
DUPLEX GFI OUTLET (NON-FILTERED)	INCLUDED - RIGHT SIDE OF CABINET
QUAD CONVENIENCE OUTLET - FILTERED	INCLUDED - LEFT SIDE OF CABINET
ADDITIONAL NEUTRAL BUS BARS	(1) 32 POSITION BUS BAR LEFT SIDE OF CABINET
ADDITIONAL CHASSIS GROUND BUS BARS	(1) 32 POSITION BUS BAR LEFT SIDE OF CABINET
STANDARD WIRING DIAGRAM (AUTOCAD FORMAT)	PROVIDE: (3) PAPER SETS FOR CABINET, SIGNAL TECH AND TRAFFIC, (1) ACAD ON DISC, (1) PDF.
GTT OPTICOM 757 HARNESS	INCLUDED - WIRED INTO CABINET
GTT OPTICOM 768 AUXILIARY INTERFACE PANEL	INCLUDED - WIRED INTO CABINET
GENERATOR BYPASS COMPARTMENT	INCLUDED - MOUNT COMPARTMENT FLUSH AND ON INSIDE OF CONTROLLER CABINET DOOR. SEE SPECIAL PROVISIONS FOR OTHER REQUIREMENTS.

CONTROLLER ASSEMBLY EQUIPMENT	
SUPPLY ALL LABOR, EQUIPMENT AND MATERIALS TO PROVIDE A FULLY FUNCTIONING TRAFFIC SIGNAL CONTROLLER ASSEMBLY COMPLIANT WITH THE NEMA STANDARD PUBLICATION NO. TS2-2003 V02.06 AND SPECIAL "SPECIALS" PROVISIONS OF THIS CONTRACT INCLUDING BUT NOT LIMITED TO;	
QTY	CONTROLLER/MMU EQUIPMENT
1	ECON COBALT ATC TOUCH 2100 CONTROLLER (TS2 TYP 2
1	CONTROLLER TELEMETRY MODULE TCM-FSK-9 OR APPROVED EQUAL
1	CONTROLLER ETHERNET PORT
1	CONTROLLER DATA KEY
1	EDI MMU2-16LEIP
1	MMU2 CARD
QTY	CABINET EQUIPMENT
16	PDC SSS-87-1/0 LOAD SWITCHES OR APPROVED EQUAL
16	EDI ORACLE4E DETECTOR AMPLIFIERS OR APPROVED EQUAL
8	DETROL CONTROLS 295 FLASH TRANSFER RELAYS OR APPROVED EQUAL
2	EDI BIU700 TERMINAL AND FACILITIES BIU'S OR APPROVED EQUAL
4	EDI BIU700 DETECTION BIU'S OR APPROVED EQUAL
1	EDI PS250 TS2 CABINET POWER SUPPLY OR APPROVED EQUAL
1	PDC SSF-87 FLASHER OR APPROVED EQUAL
1	R1 RELAY
1	600/900/1500W SELECTABLE THERMOSTATICALLY CONTROLLED CABINET HEATER, MOUNT ON DOOR
1	RE-SEALABLE PRINT POUCH OF SUFFICIENT SIZE TO ACCOMMODATE CABINET PRINTS
1	COMPLETE SET OF MANUALS FOR CONTROLLER, MMU2, AND VEHICLE DETECTOR AMPLIFIERS

COMMUNICATION EQUIPMENT SCHEDULE	
QTY	COPPER INTERCONNECT SYSTEM
1	ACTELIS ML688 WITH FOUR 10/100X PORTS AND ONE OPTIONAL 1000BASE SFP PORT OR APPROVED EQUAL
1	AC POWER ADAPTER 506R00006 OR APPROVED EQUAL
4	3 FOOT CAT6 PATCH CABLE
1	SFP OPTICS 100BASE FX SM 1310NM 15KM LC MODULE 506R00032 OR APPROVED EQUAL
1	CARRIER-CLASS ELEMENT MANAGMENT SYSTEM
2	QUAD DSL CABLES 504R20110 OR APPROVED EQUAL
1	WALL MOUNTING KIT 510R21080 OR APPROVED EQUAL
QTY	FIBER INTERCONNECT EQUIPMENT
1	ACTELIS NETWORKS MODEL ML530 WITH TWO 100/1000 BASE FX SFP PORTS AND FOUR PORTS OF 10/100 BASE-T OR APPROVED EQUAL
1	AC POWER ADAPTER 506R00006 OR APPROVED EQUAL
4	3 FOOT CAT6 PATCH CABLE
2	SFP OPTICS 100BASE FX SM 1310NM 15KM LC MODULE 506R00032 OR APPROVED EQUAL
1	CARRIER-CLASS ELEMENT MANAGEMENT SYSTEM
2	LC DUPLEX SM FIBER OPTIC CABLE ASSEMBLY 3 METERS OR APPROVED EQUAL
1	WALL MOUNTING KIT 510R21080 OR APPROVED EQUAL
QTY	OTHER EQUIPMENT
0	RSL910 ETHERNET SWITCH (COPPER AND FIBER) OR APPROVED EQUAL
QTY	EVP EQUIPMENT
1	OPTICOM MODEL 764 PHASE SELECTOR
QTY	RADAR EQUIPMENT
1	CLICK! 650 (102-0416)
0	CLICK! 656 (102-0451)
1	INSTALLER KIT
1	7' SDLC CABLE - 15 PIN SCREW TO 15 PIN SPRING CLIP (SDLC-TS2-7)
1	3' SDLC CABLE - 15 PIN SCREW TO 15 PIN SPRING CLIP (SDLC-TS2-3)
1	SDLC 6 PORT INTERFACE PANEL (SDLC-IP6)



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CONTROLLER EQUIPMENT
SCHEDULE

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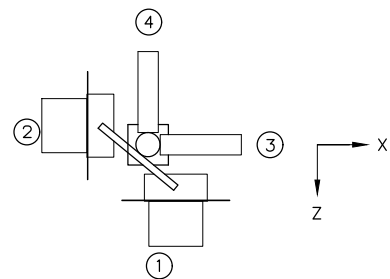
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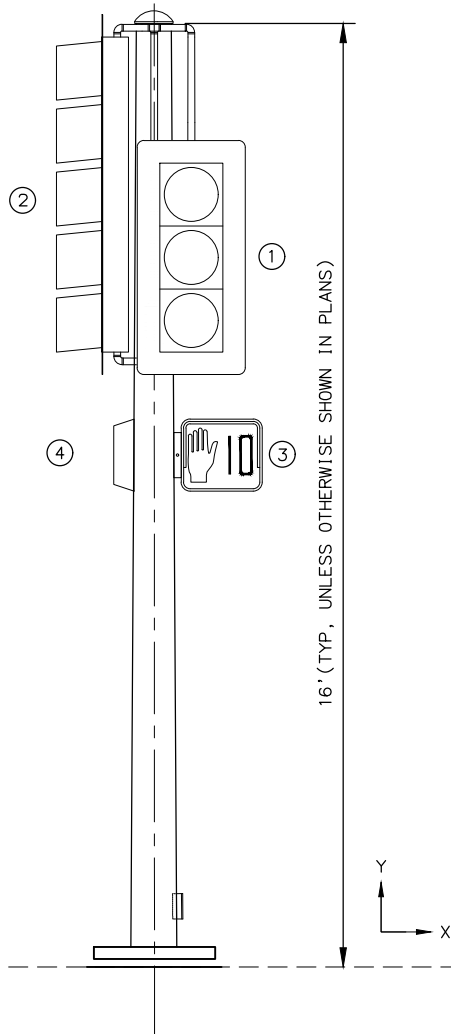
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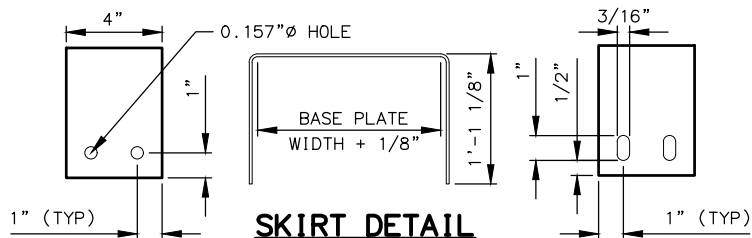
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PLAN VIEW
NTS



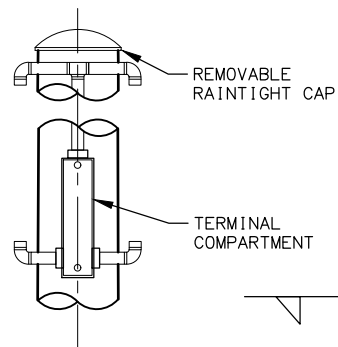
ELEVATION VIEW
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SKIRT DETAIL
NTS
(TWO REQUIRED PER POLE)

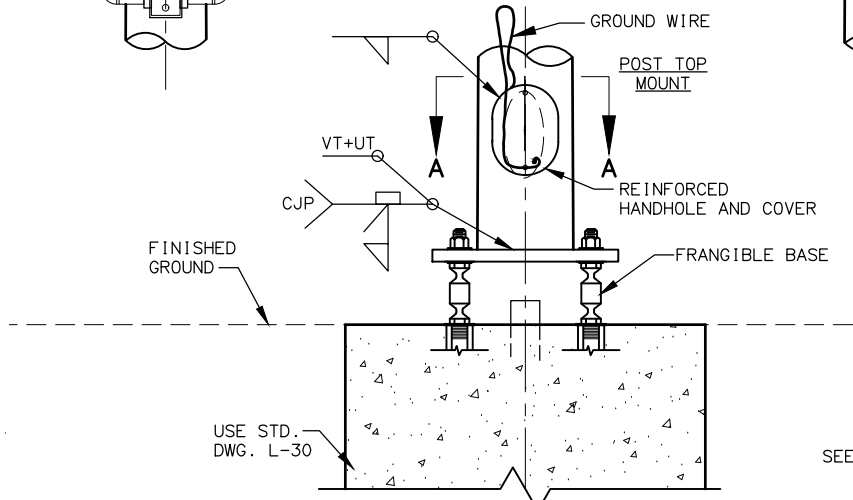
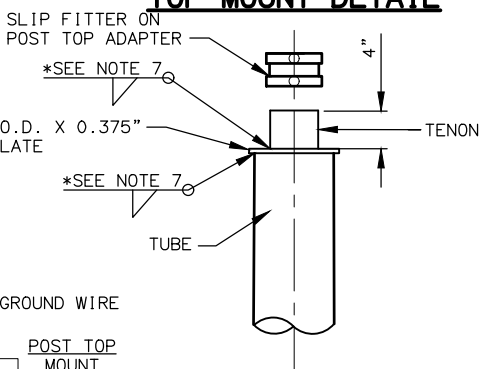
FIXED DESIGN ELEMENTS	
ALL ASSEMBLIES	
LENGTH	16' (TYP. MAY VARY IN PLANS)
FIXED END DIAMETER O.D.	10.0"
TAPER	0.14" /FT
TUBE THICKNESS	7 GA.
HAND-HOLE O.D.	5.63" X 7.31"
BASE PLATE	15.5" X 15.5" X 1.375"
BOLT CIRCLE	15.5"
FRANGIBLE BASE	MODEL 5100 POLE SAFE OR APPROVED EQUAL
MATERIAL PROPERTIES	
TUBE	ASTM A572 GR. 55
BASEPLATE	AASHTO M270 F3, GF 50
TOP PLATE	ASTM A36
HANDHOLE REINFORCEMENT	ASTM A53, GR. B
FINISH	AASHTO M111& M232

SIDE MOUNT DETAIL

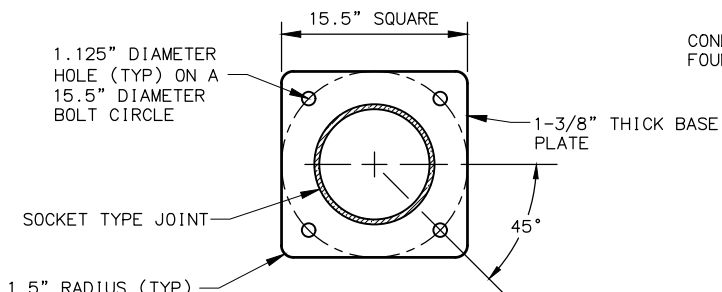


POLE DESIGN LOADING		
LOAD COMPONENT	EFFECTIVE AREA SQ. FT.	WEIGHT LBS.
1 = SIGNAL	7	60
2 = SIGNAL	11	100
3 = PED HEAD	2.5	25
4 = PED HEAD	2.5	25

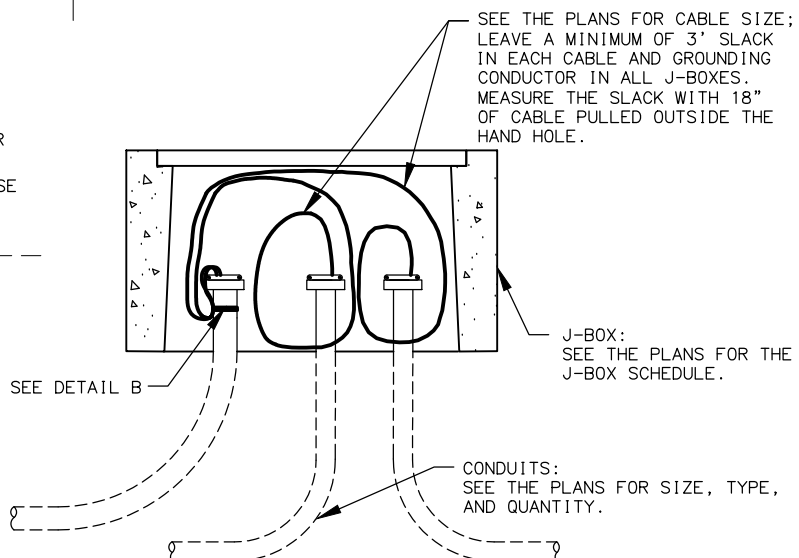
TOP MOUNT DETAIL



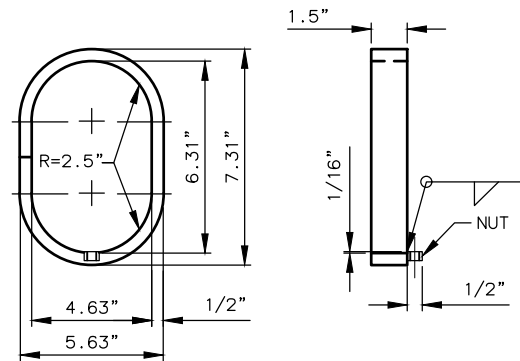
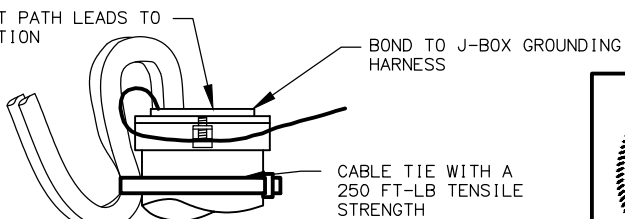
SIGNAL POST AND BASE
NTS



VIEW A-A
PLAN VIEW OF BASE PLATE
NTS



DETAIL B



HANDHOLE DETAIL
NTS

NOTES:

- DESIGN POLE ASSEMBLIES TO THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRE AND TRAFFIC SIGNALS, THE ALASKA STANDARD SPECIFICATIONS, STANDARD MODIFICATIONS, SPECIAL PROVISIONS AND THESE PLANS. DESIGN FOR A BASIC WIND SPEED OF 100 MPH, FATIGUE CATEGORY II.
- POLES SHALL BE DESIGNED AND FABRICATED TO INCORPORATE ALL FIXED DESIGN ELEMENTS.
- DESIGN AND FABRICATE TUBES FROM ONE PIECE OF TAPERED STEEL.
- STEEL GREATER THAN 1/2" THICK SHALL CONFORM TO AASHTO M270 AND SHALL MEET THE FRACTURE CRITICAL CHARPY V-NOTCH IMPACT TEST REQUIREMENTS FOR ZONE 3.
- INSTALL A 0.625" THICK 3003-H14 ALUMINUM SHEET SKIRT AROUND THE FRANGIBLE COUPLINGS FASTENED WITH STAINLESS SHEET METAL SCREWS.
- THE DEPARTMENT WILL REJECT DAMAGED OR DEFECTIVE POLES FOR ANY OF THE FOLLOWING, INCLUDING BUT NOT LIMITED TO;
A.VARIANCES FROM APPROVED SHOP DRAWINGS.
B.VARIANCES FROM FIXED DESIGN ELEMENTS.
C.OUT OF ROUND. SECTIONS ARE OUT OF ROUND WHEN THE DIAMETERS OF ROUND MEMBERS EXCEED 2 PERCENT OF THE DIMENSION SPECIFIED ON THE SHOP DRAWINGS.
D.BOWED WITH SWEEPS EXCEEDING 0.75" INCH THROUGHOUT THE LENGTH OF THE POLE, MASTARM, OR SEGMENT.
E.DAMAGED OR DENTED FINISHES.
- WELD SIZE TO BE DETERMINED BY MANUFACTURER.
- PROVIDE PERMANENT TAGS PER SECTION 740 TABLE 740-1 OF THE SPECIFICATIONS.
- THIS DRAWING IS INTENDED FOR POLE DESIGN PURPOSES ONLY. ASSEMBLY CONFIGURATIONS ARE FOR LOADING PURPOSES AND MAY DIFFER FROM THOSE SHOWN IN PLANS. POLES HAVE NOT BEEN EVALUATED FOR LOADING CONDITIONS MORE SEVERE THAN THOSE SHOWN AND WILL REQUIRE INDIVIDUAL ANALYSIS WHEN ENCOUNTERED.



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PRESERVATION

BREAKAWAY TRAFFIC SIGNAL
POLE DETAIL

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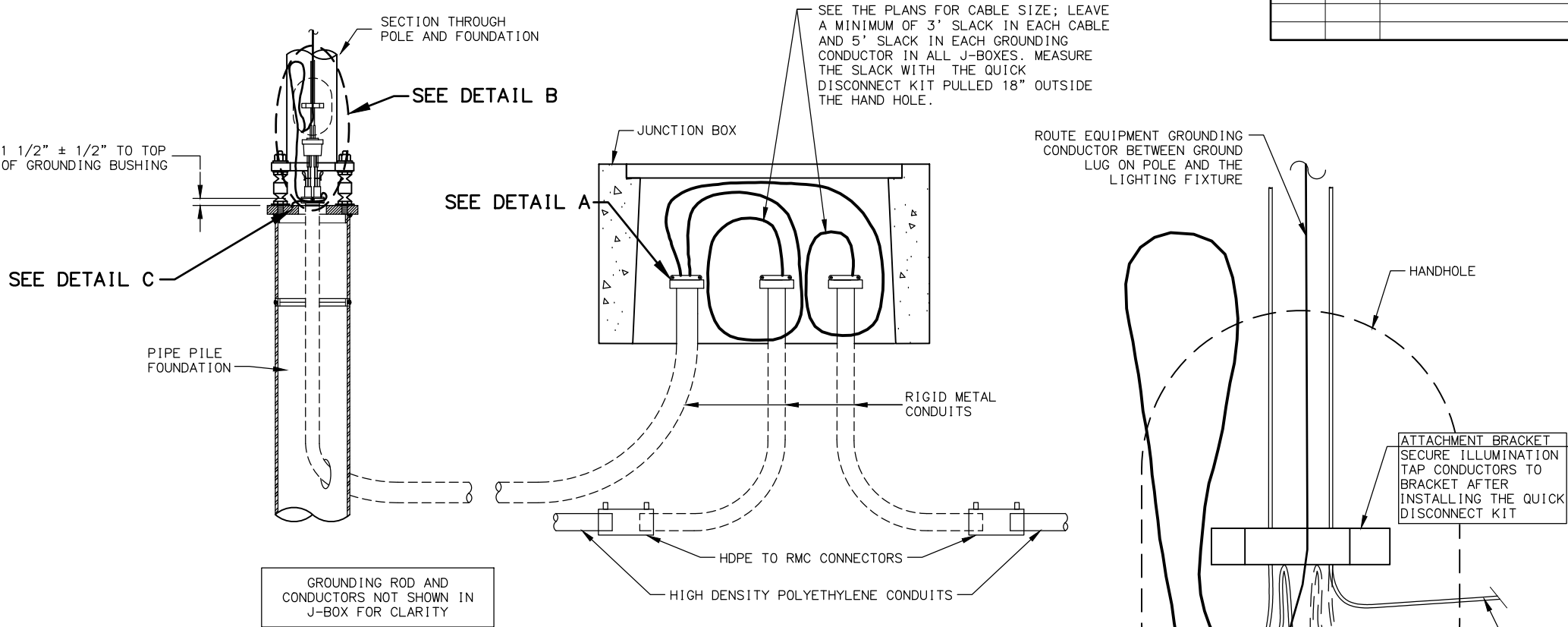
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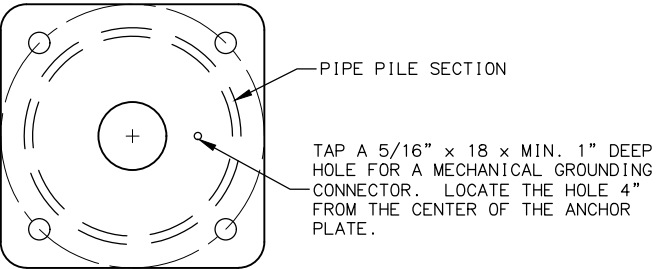
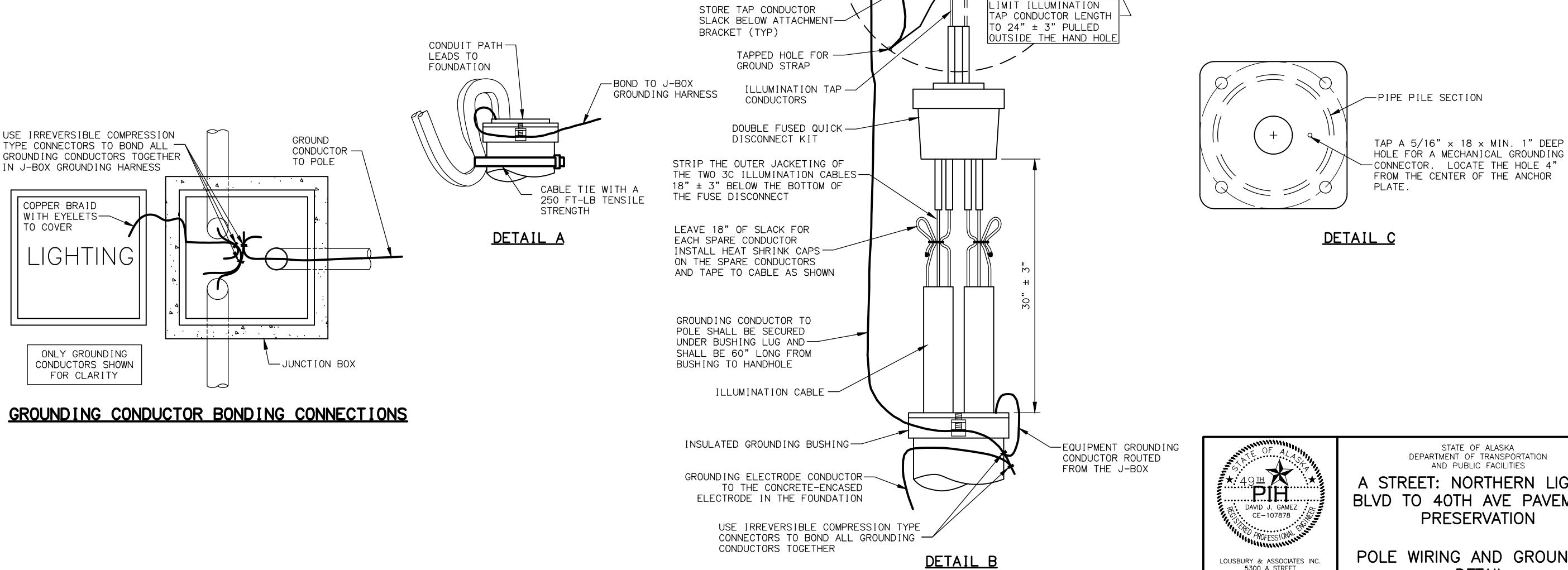
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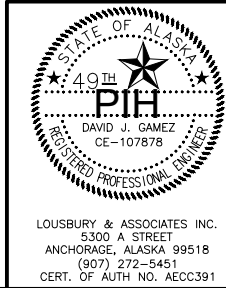
- NOTES:**
- APPLICATION FOR SLIP BASE IS THE SAME EXCEPT FOR BONDING. SEE SUBSECTION 660-3.06 FOR BONDING.
 - LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX. SEE SUBSECTION 660-3.05.
 - MAKE ALL GROUNDING AND BONDING WIRE #8 AWG, EXCEPT IN THOSE CONDUITS THAT CONTAIN CIRCUIT CONDUCTORS LARGER THAN #8 AWG. IN THIS CASE USE WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR. THE GROUNDING ELECTRODE CONDUCTOR TO THE CONCRETE-ENCASED ELECTRODE IN THE FOUNDATION SHALL BE #4 AWG.
 - USE LISTED IRREVERSIBLE COMPRESSION TYPE CONNECTORS SIZED FOR EACH APPLICATION AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.



LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS



DETAIL C



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

**POLE WIRING AND GROUNDING
DETAIL**

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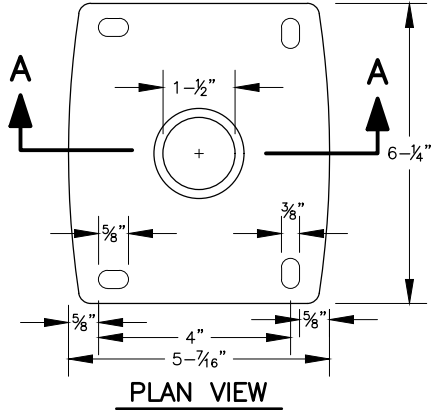
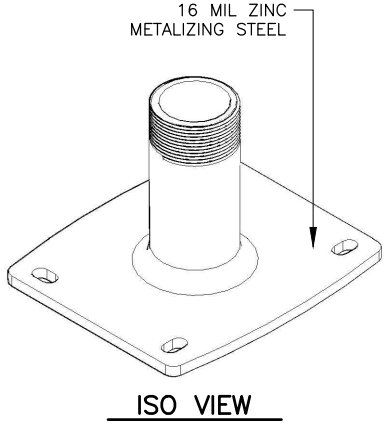
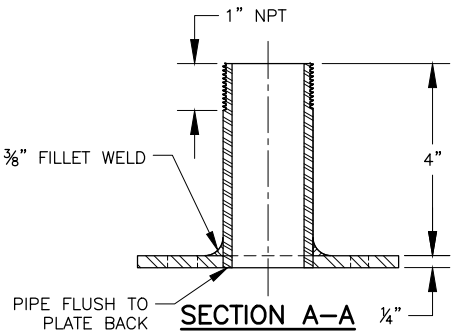
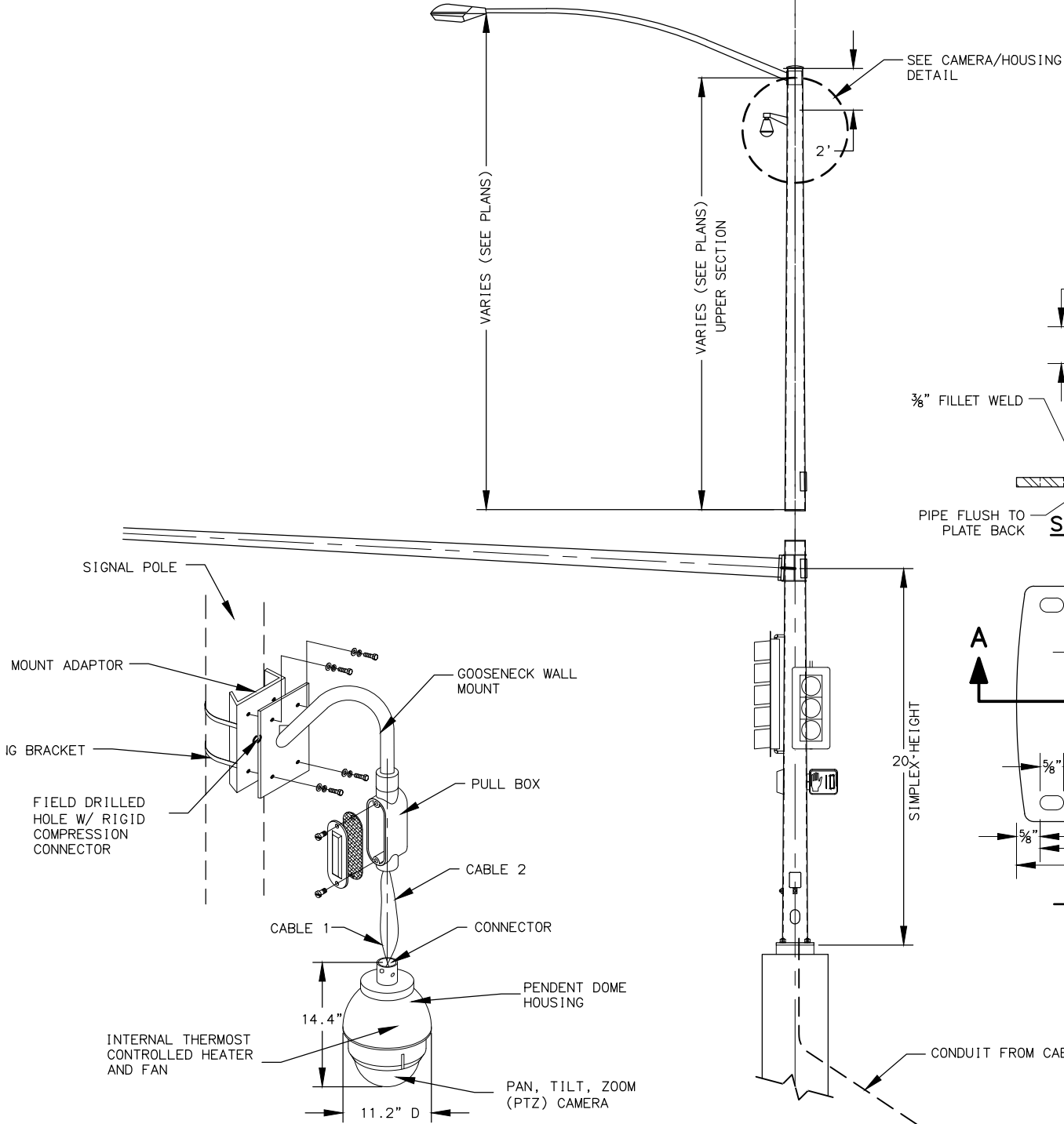
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H9	H38

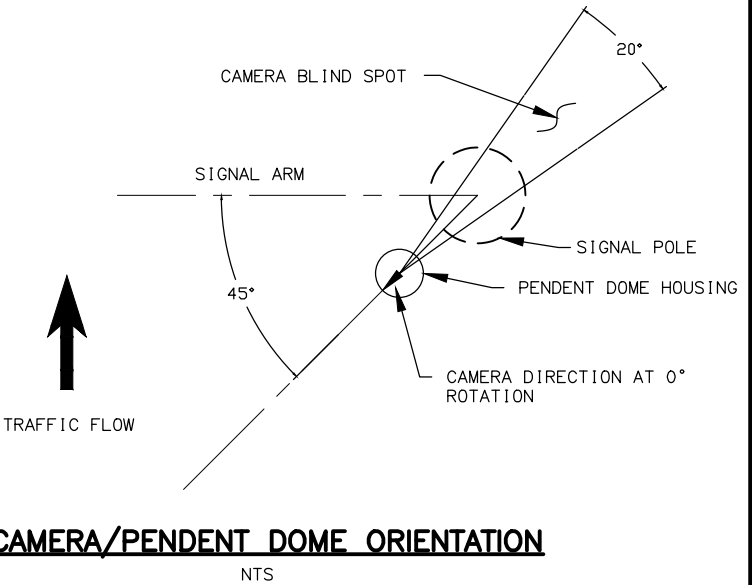
MATERIAL REQUIREMENTS	
ALL ASSEMBLIES	
MOUNTING BRACKET	ASTRO-BRAC AB-0160-45-SS-PNC
WALL ADAPTOR	STEEL FABRICATORS OR APPROVED EQUAL
WALL MOUNT	AXIS T91L61 OR APPROVED EQUAL
CABLE 1 (SIGNAL)	CAT-5E, SHIELDED, DIRECT BURIAL
CONNECTOR	ENVIRONMENTALLY HARDENED RJ-45
STRAIN RELIEF	REMKE 2201-013 OR APPROVED EQUAL
ADAPTER HARDWARE, EACH	(1) 5/16" 18X1" HEX BOLT, STAINLESS
	(2) 5/16" FLAT WASHER, STAINLESS
	(1) 5/16" NY-LOCK NUT, STAINLESS
CAMERA	
CAMERA	SEE SPECIFICATIONS

- NOTES:**
1. MOUNT THE PENDENT DOME HOUSING AT A 45° ANGLE AT THE REQUIRED HEIGHT. ANGLE AND HEIGHT MAY BE ADJUSTED BY THE ENGINEER TO AVOID WELDS, APPENDICES AND TO APPROVE SIGHT DISTANCE.
 2. ADJUST CAMERA INSIDE THE PENDENT DOME HOUSING AS SHOWN. ENSURE THAT THE CAMERA IS MOUNTED AT A 0° TILT ANGLE.
 3. INSTALL WATERTIGHT THREADED RIGID COMPRESSION CONNECTOR WHERE CABLE PASSES THROUGH THE POLE.
 4. AT SPLICE LOCATION PROVIDE A SECURE CONNECTION USING CONNECTOR PARTS SPECIFIED. AFTER CONNECTION IS MADE COVER SPLICE WITH HEAT SHRINK. PROVIDE A STRAIN RELIEF CABLE AS NECESSARY.



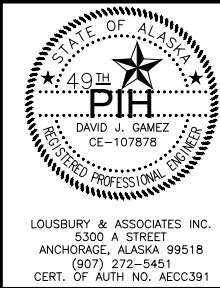
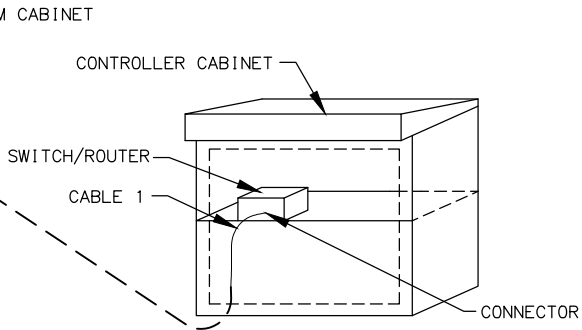
ELEVATOR PLUMBIZER

WALL MOUNT ADAPTER DETAIL



CAMERA/HOUSING DETAIL
NTS

SYSTEM LAYOUT
NTS



STATE OF ALASKA
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**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**
PTZ MOUNTING DETAILS

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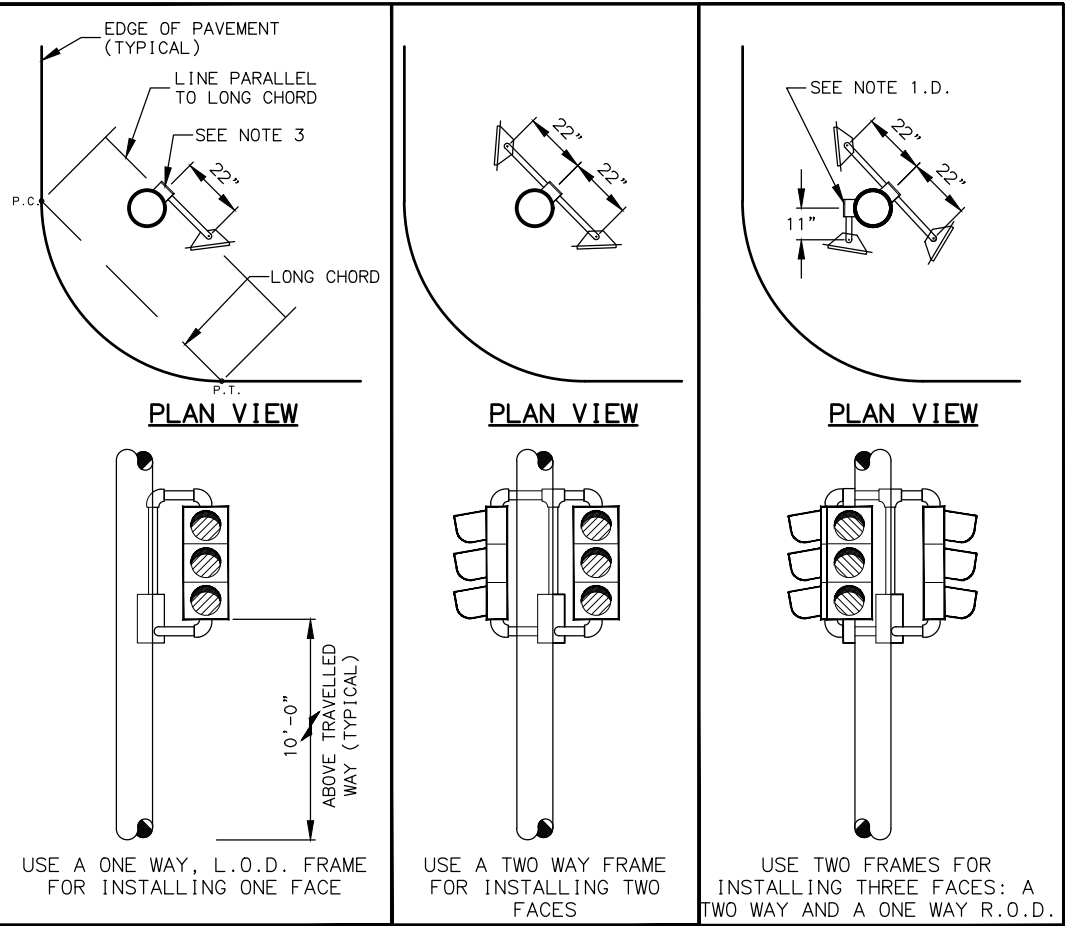
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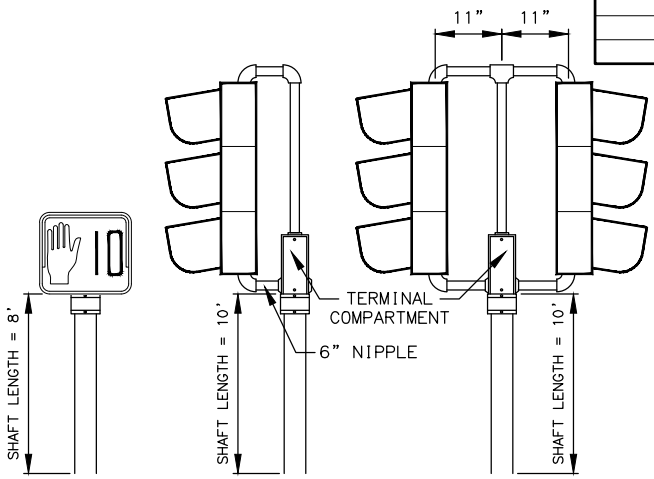
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			ALASKA	0527030/CFHWY00223	2020	H10	H38

NOTES:

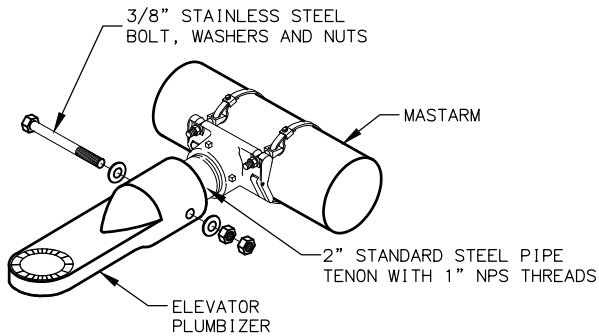
- INSTALL THE SIGNAL FACES SHOWN IN THE PLANS AS DETAILED ON THIS SHEET AND PER ALASKA TRAFFIC MANUAL.
 - USE ELEVATOR PLUMBIZERS TO INSTALL FACES ON MASTARMS AND WHENEVER TWO INCH PIPE TENONS ARE SPECIFIED. INSTALL THE PLUMBIZER BETWEEN THE RED AND YELLOW SIGNAL INDICATIONS FOR A THREE SECTION HEAD AND BETWEEN THE TWO YELLOW SIGNAL INDICATIONS FOR A FOUR SECTION HEAD. USE STAINLESS STEEL BAND MOUNT HARDWARE, AB-3007-L AS MANUFACTURED BY PELCO PRODUCTS, INC., OR APPROVED EQUAL TO INSTALL PLUMBIZER TO MASTARMS. PELCO MOUNT SHALL HAVE STAINLESS STEEL OPTION.
 - USE SLIP FITTERS TO INSTALL PEDESTRIAN SIGNALS ON THE TOP OF POSTS.
 - USE SIGNAL FRAMES TO INSTALL SIGNAL FACES ON THE SIDES OF POLES AND ON THE TOPS OF POSTS.
 - USE A SECOND SIGNAL FRAME TO INSTALL THE THIRD FACE WHEN THREE SIDE MOUNTED SIGNAL FACES ARE SHOWN.
 - USE CLAMSHELL BRACKETS TO INSTALL ALL PEDESTRIAN SIGNALS, EXCEPT THOSE THAT ARE POST TOP MOUNTED.
- FURNISH ALL SIGNAL FRAMES WITH TERMINAL COMPARTMENTS.
- INSTALL ONE TERMINAL COMPARTMENT ON THE SIDE OF THE POLE OPPOSITE THE MIDPOINT OF THE RADIUS RETURN. POSITION THE TERMINAL COMPARTMENT AT THE LOCATION WHERE A LINE PARALLEL TO THE LONG CHORD (P.C. TO P.T.) OF THE RADIUS RETURN IS TANGENT TO THE POLE.
- INSTALL PEDESTRIAN INDICATION TO FACE THE CENTER OF THE FAR SIDE CROSSWALK. ACCEPTABLE VARIANCE IS +/- 1 DEGREE.
- FIELD DRILL THE HOLES NEEDED FOR ATTACHING ALL SIGNAL HARDWARE. USE HOLE SAWS WHEN DRILL BITS ARE NOT AVAILABLE. TREAT THE BARE STEEL SURFACES IN ACCORDANCE WITH SECTION 660-3.01.8, REPAIRING DAMAGED FINISHES, OF THE STANDARD SPECIFICATIONS.
- PROVIDE SOLID BACKPLATES SIZED FOR THE NUMBER OF SIGNAL SECTIONS AND MOUNTING TYPE, SO THAT NO LIGHT IS VISIBLE BETWEEN THE BACKPLATE AND THE SIGNAL FACE. FURNISH BACKPLATES FOR DOGHOUSE STYLE SIGNALS THAT FEATURE NOTCHED UPPER CORNERS.
- ATTACH ALL BACK PLATES USING PLATED STEEL RIVETS WITH LARGE FLANGE BUTTON HEADS. INSTALL 0.187" DIAMETER BY 0.575" LONG RIVETS THAT PROVIDE AT LEAST 530 LBS. AND 670 LBS. SHEAR AND TENSILE STRENGTHS, RESPECTIVELY. BORE OUT THE MOUNTING HOLES IN THE BACK PLATES AND SIGNAL HEADS TO THE DIAMETER RECOMMENDED BY THE RIVET MANUFACTURER.
- BEFORE INSTALLING THE MACHINE SCREWS THAT SECURE THE VISORS, COAT THE THREADS WITH AN ANTI-SEIZING COMPOUND.



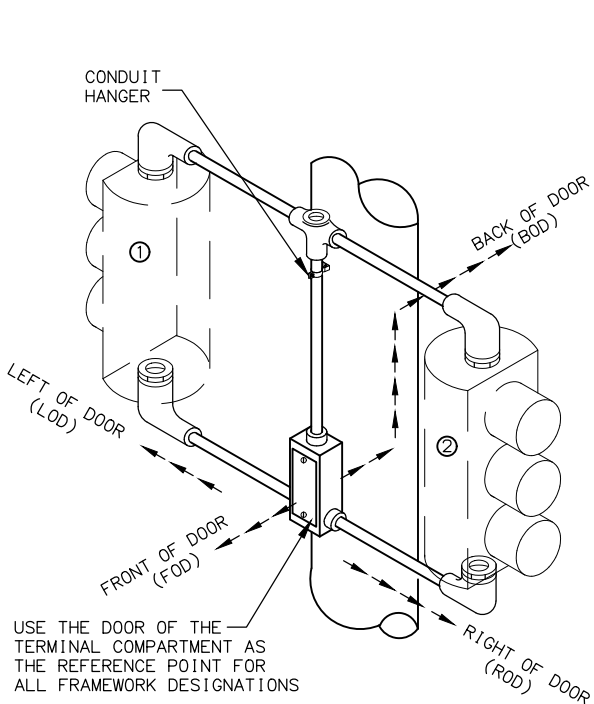
SIDE MOUNTED SIGNAL FRAMES WITH VEHICULAR SIGNALS
(SHOWN WITHOUT BACKPLATES)



POST MOUNTED SIGNALS
(SHOWN WITHOUT BACKPLATE)



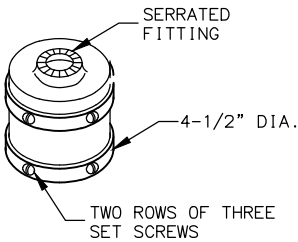
ELEVATOR PLUMBIZER
(SEE NOTE 1.A.)



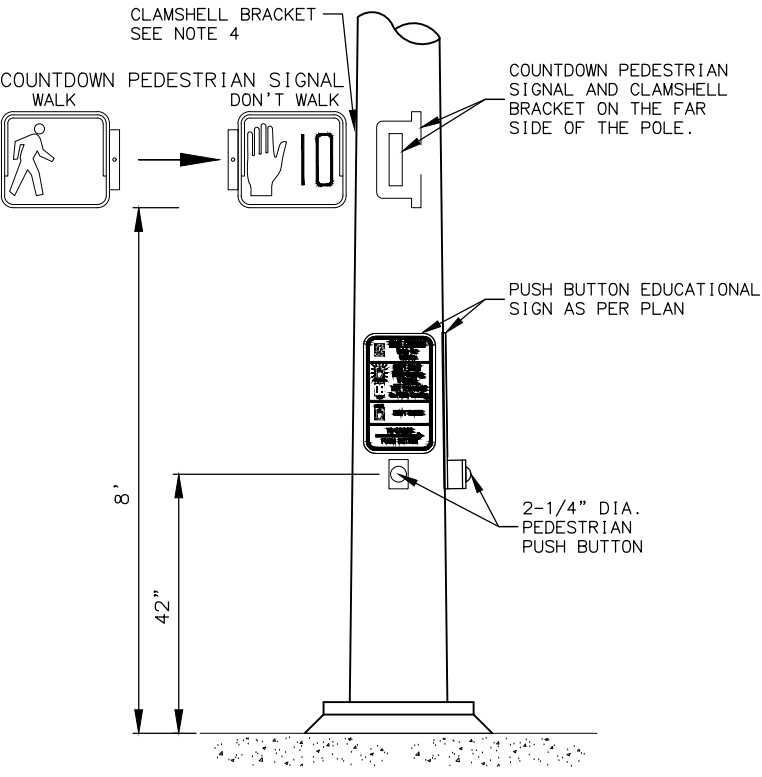
FRAMEWORK DESCRIPTION

- HEAD NO. ① OFFSET L.O.D.
HEAD NO. ② OFFSET R.O.D.

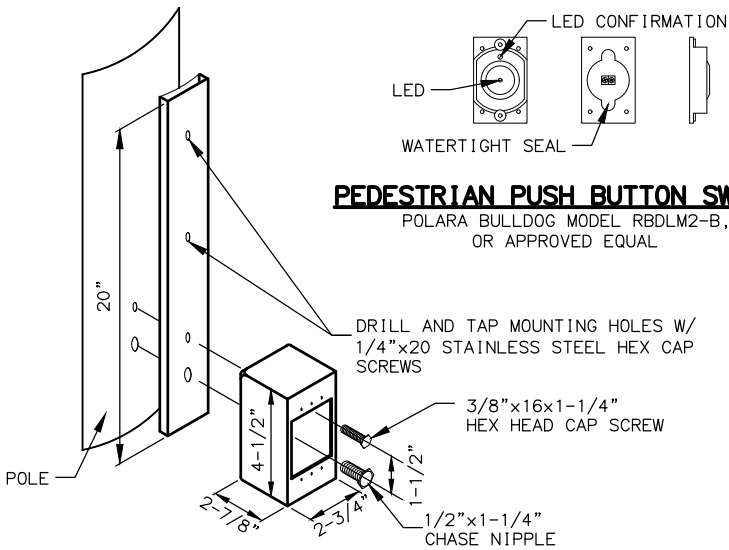
TERMINAL COMPARTMENT WITH SLIP FITTER
(SEE NOTES 1.C. AND 2)



SLIP FITTER
(SEE NOTE 1.B.)

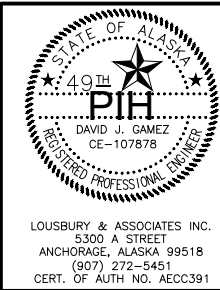


PEDESTRIAN HARDWARE



PEDESTRIAN PUSH BUTTON SWITCH
POLARA BULLDOG MODEL RBDLM2-B,
OR APPROVED EQUAL

PEDESTRIAN PUSH BUTTON HOUSING
(STYLE A)



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PRESERVATION**
**TRAFFIC HARDWARE SIGNAL
DETAILS**

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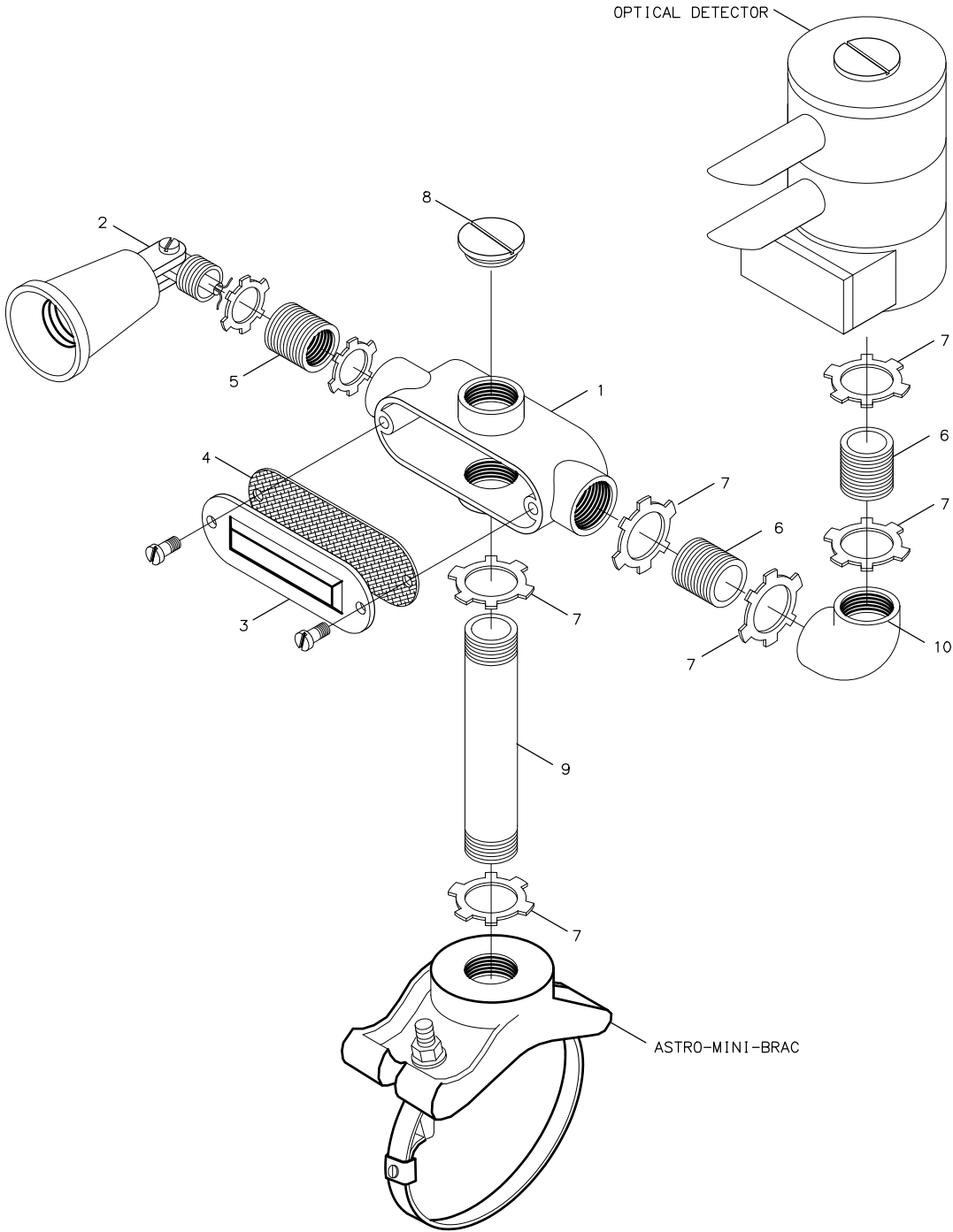
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H 11	H38



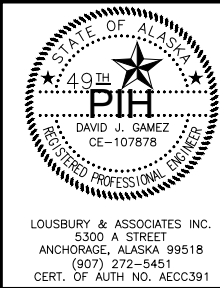
PARTS LIST FOR EACH GTT OPTCOM DECTOR INSTALLED

GTT OPTICOM MODEL 575 CONFIRMATION LIGHT KIT CONFIGURE AS SHOWN FROM PARTS BELOW		
PART NO.	PART TYPE	LIGHT KIT QUANTITY
1	"X" CONDUIT BODY	1
2	PAR 38 LAMP HOLDER	2
3	CONDUIT COVER	1
4	COVER GASKET	1
5	REDUCING BUSHING	2
6	3/4" CLOSE NIPPLE	2
7	3/4" LOCKNUT	6
8	3/4" HOLE PLUG	2
9	3/4" X 6" NIPPLE	ADD 1 TO KIT
10	3/4" X 90° ELBOW	ADD 1 TO KIT

NOTES:

- SEE THE SIGNAL PLANS FOR THE SIGNAL POLE MAST ARMS SCHEDULED FOR EVP INSTALLATION.
- FOR EACH EVP INSTALLATION, FURNISH:
 - A GTT MODEL 711, 721, 722 OPTICOM DETECTOR AS CALLED FOR IN PLANS.
 - AN ASTRO-MINI-BRAC, MODEL AB-0155-L, AS MANUFACTURED BY PELCO PRODUCTS OR AN APPROVED EQUAL.
 - A GTT MODEL 575 CONFIRMATION LIGHT KIT WITH THE ADDITIONAL PARTS SHOWN IN THE PARTS LIST, OR STEEL PARTS, WITH A HOT DIP GALVANIZED FINISH, AS SHOWN IN THE PARTS LIST.
 - WITH EACH OPTICOM DETECTOR INSTALLED, FURNISH A PAR38 20 WATT LED FLOOD LAMP RATED FOR 120 VOLT OPERATION, 1250 INITIAL LUMENS, AND A 25000 HOUR LAMP LIFE.
- MOUNT EVP DETECTORS TO HAVE DIRECT, UNOBSTRUCTED LINE-OF-SIGHT OF APPROACHING VEHICLES. DRILL A 1 INCH HOLE IN THE TOP DEAD CENTER OF THE MAST ARM AT THE LOCATION PRE-APPROVED BY THE ENGINEER. ASSEMBLE AND TIGHTEN THE PARTS AND LOCKNUTS AS SHOWN ON THIS SHEET.
- BEFORE ATTACHING THE MODEL 138 DETECTOR CABLE TO THE OPTICOM DETECTOR, STRIP THE INSULATION FROM THE THREE INSULATED CONDUCTORS AT THE CONTROLLER CABINET AND ATTACH ALL FOUR CONDUCTORS TO GROUND.
- PREEMPTION EMITTERS SHALL BE ASSIGNED ID NUMBERS BY JURISDICTION AS SHOWN IN VEHICLE EMITTER TABLE.

VEHICLE EMITTER TABLE			
CLASS	VEHICLE I.D. NO.	JURISDICTION	VEHICLE TYPE
0	NOT USED	MUNICIPALITY OF ANCHORAGE	FIRE & EMS
1	NOT USED	MUNICIPALITY OF ANCHORAGE	OTHER
2	NOT USED	FAIRBANKS	FIRE & EMS
3	NOT USED	FAIRBANKS	OTHER
4	1-30	MATANUSKA/SUSITNA	FIRE & EMS
5	NOT USED	MATANUSKA/SUSITNA	OTHER
6	NOT USED	KENAI PENINSULA	FIRE & EMS
7	NOT USED	KENAI PENINSULA	OTHER
8	NOT USED	ELMENDORF/FT. RICHARDSON	FIRE & EMS
9	NOT USED	ELMENDORF/FT. RICHARDSON	OTHER



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EVP INSTALLATION DETAILS

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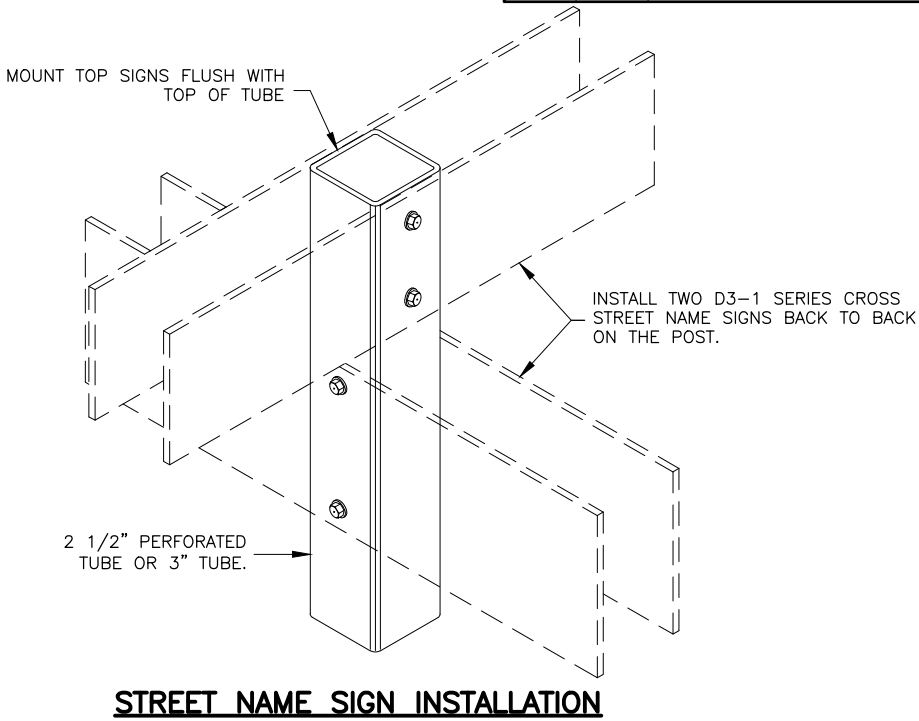
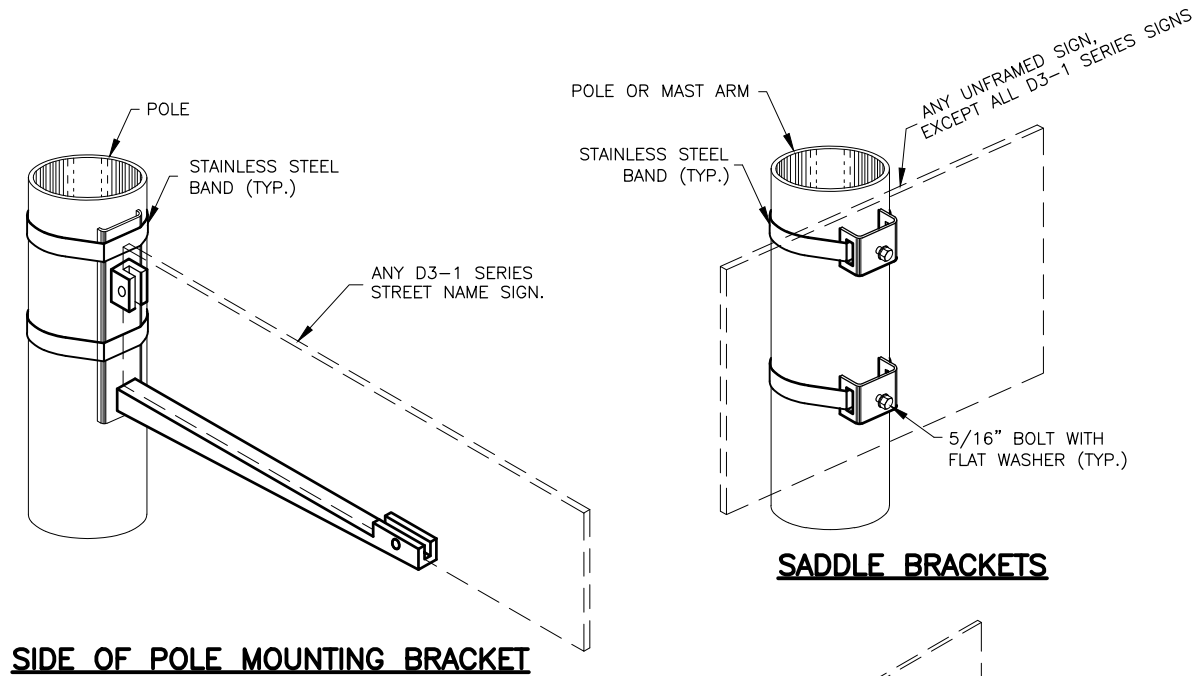
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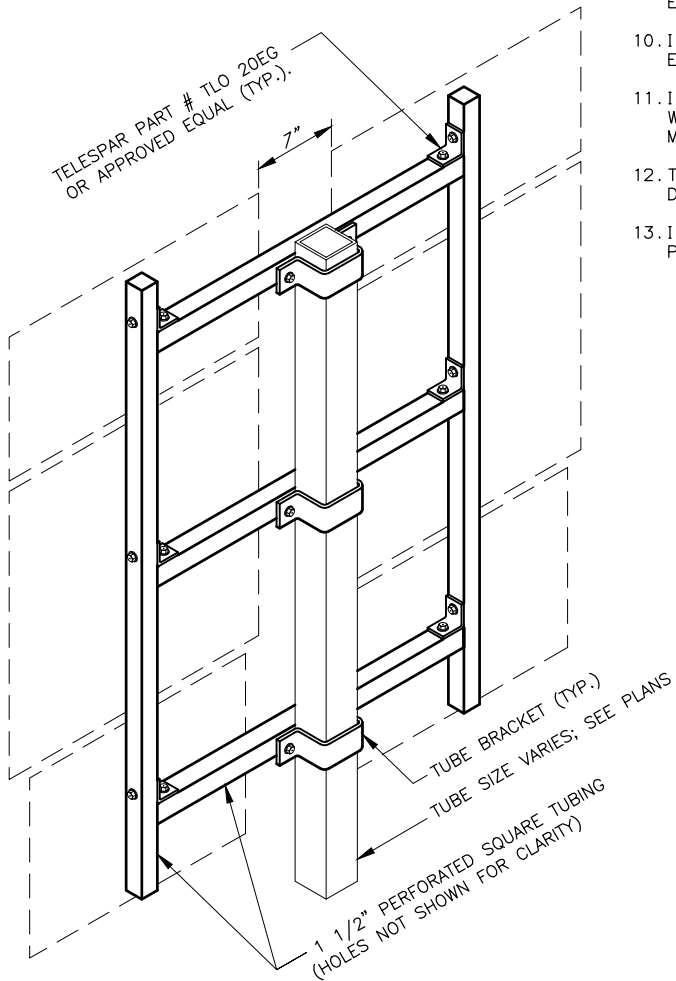
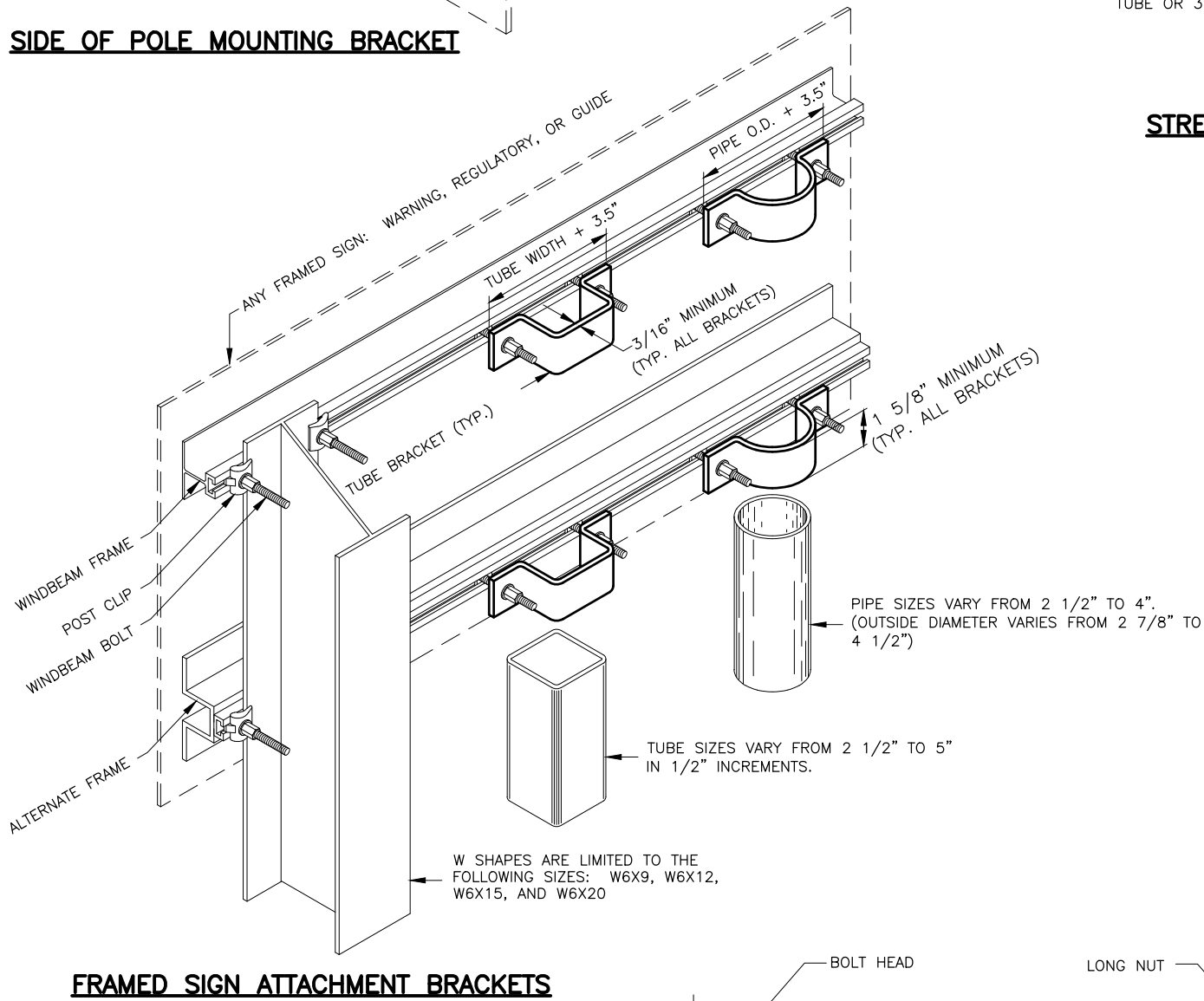
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H12	H38



NOTES:

1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
2. 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.
3. 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.
4. 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.
5. 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.
6. THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
7. ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
8. ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO ALASKA STANDARD PLAN S-23.
9. FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
10. INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
11. INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
12. THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
13. INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.



FASTENER SPECIFICATION TABLE			
FASTNERS		STEEL	STAINLESS STEEL
BOLTS		ASTM A 307	ASTM F 593
NUTS	REGULAR	ASTM A 563	ASTM F 594
	LOCK		
WASHERS		ASTM A 36	ASTM A 480
POST CLIPS			

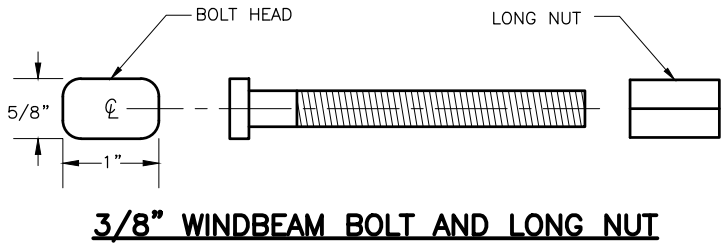
DATE	THIS SHEET REPLACES STD. DWG. S-20.10
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5300 A STREET
ANCHORAGE, ALASKA 99518
(907) 272-5451
CERT. OF AUTH NO. AECC391

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**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

SIGN ATTACHMENT DETAILS



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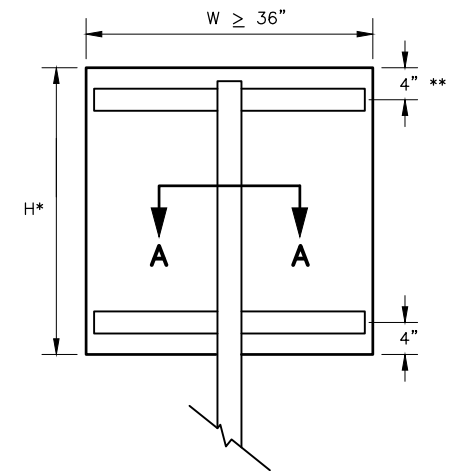
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DATE/TIME

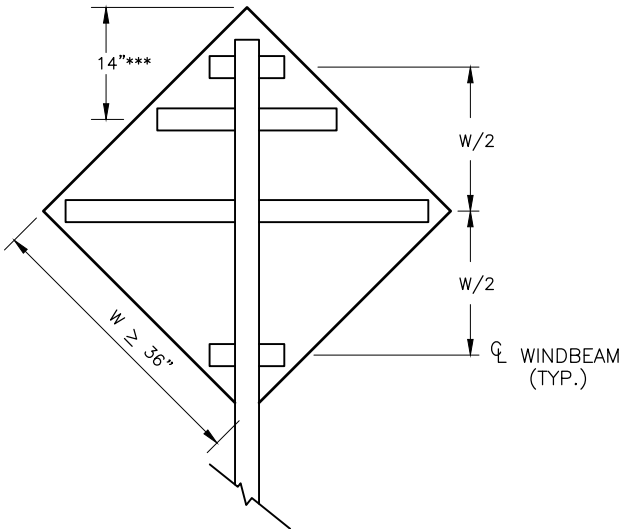
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H13	H38

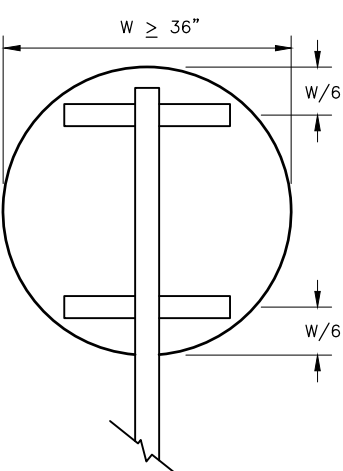


RECTANGLES AND TRAPEZOIDS

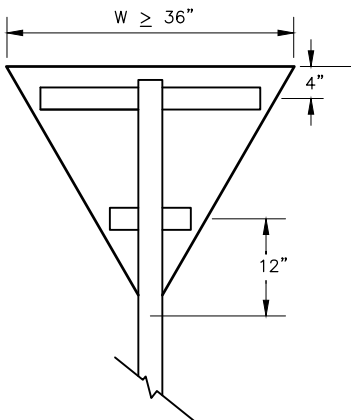
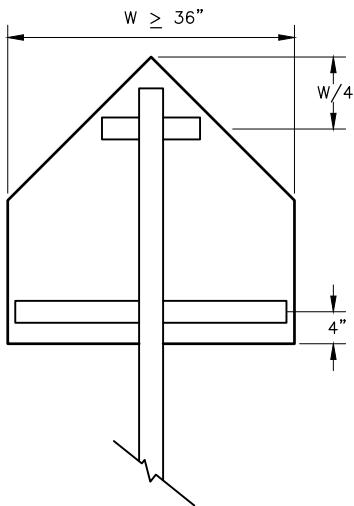
* WHEN $H > 42$ INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.
** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4" .



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

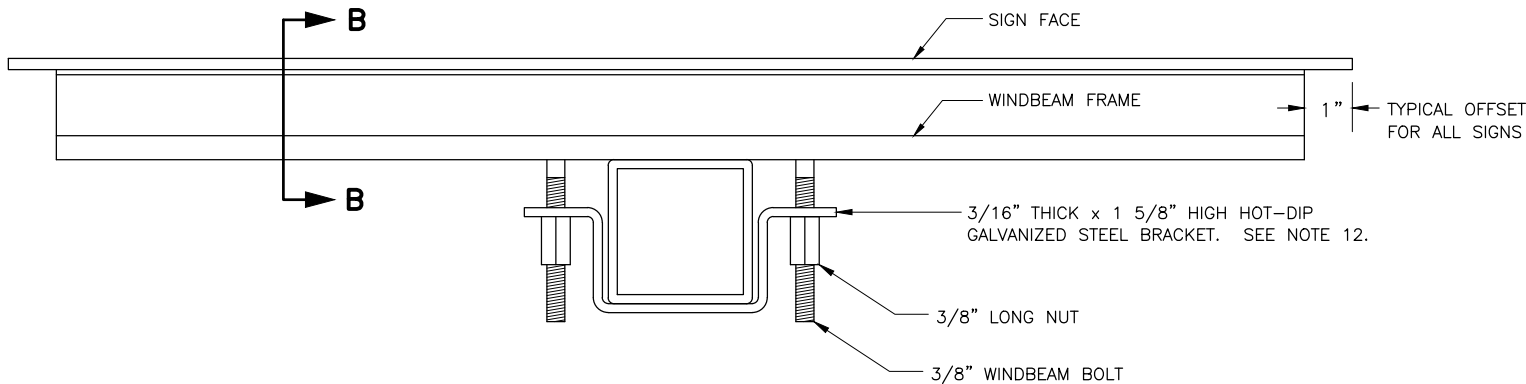


ROUNDS AND OCTAGONS

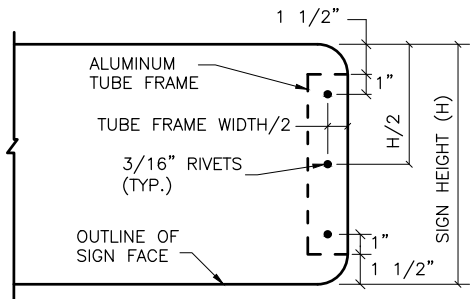


WINDBEAM LOCATIONS FOR EACH SIGN SHAPE

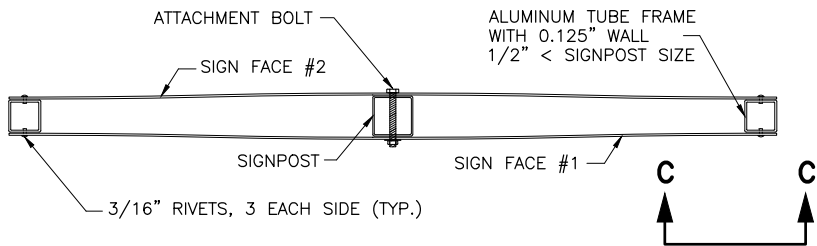
ELEVATION VIEW



SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

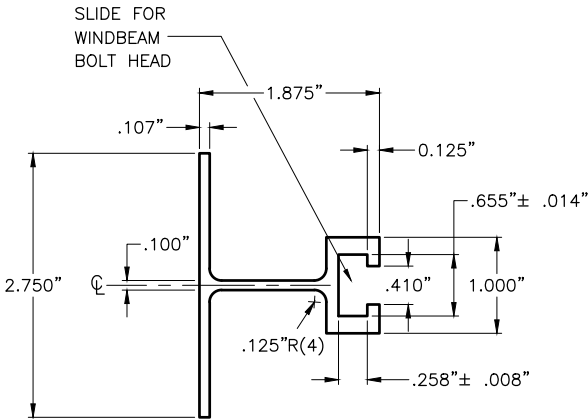


VIEW C - C

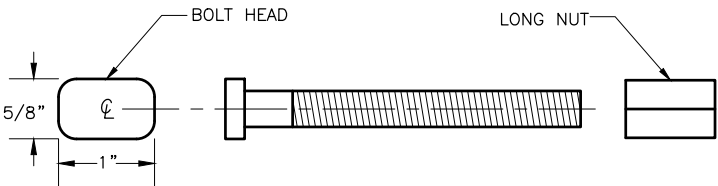


D3-1 STREET NAME SIGN FRAMING DETAIL

PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT

NOTES:

- EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
- 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.
- IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
- 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.
- 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.
- USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
- EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
- ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
- 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.
- WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
- USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
- THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.

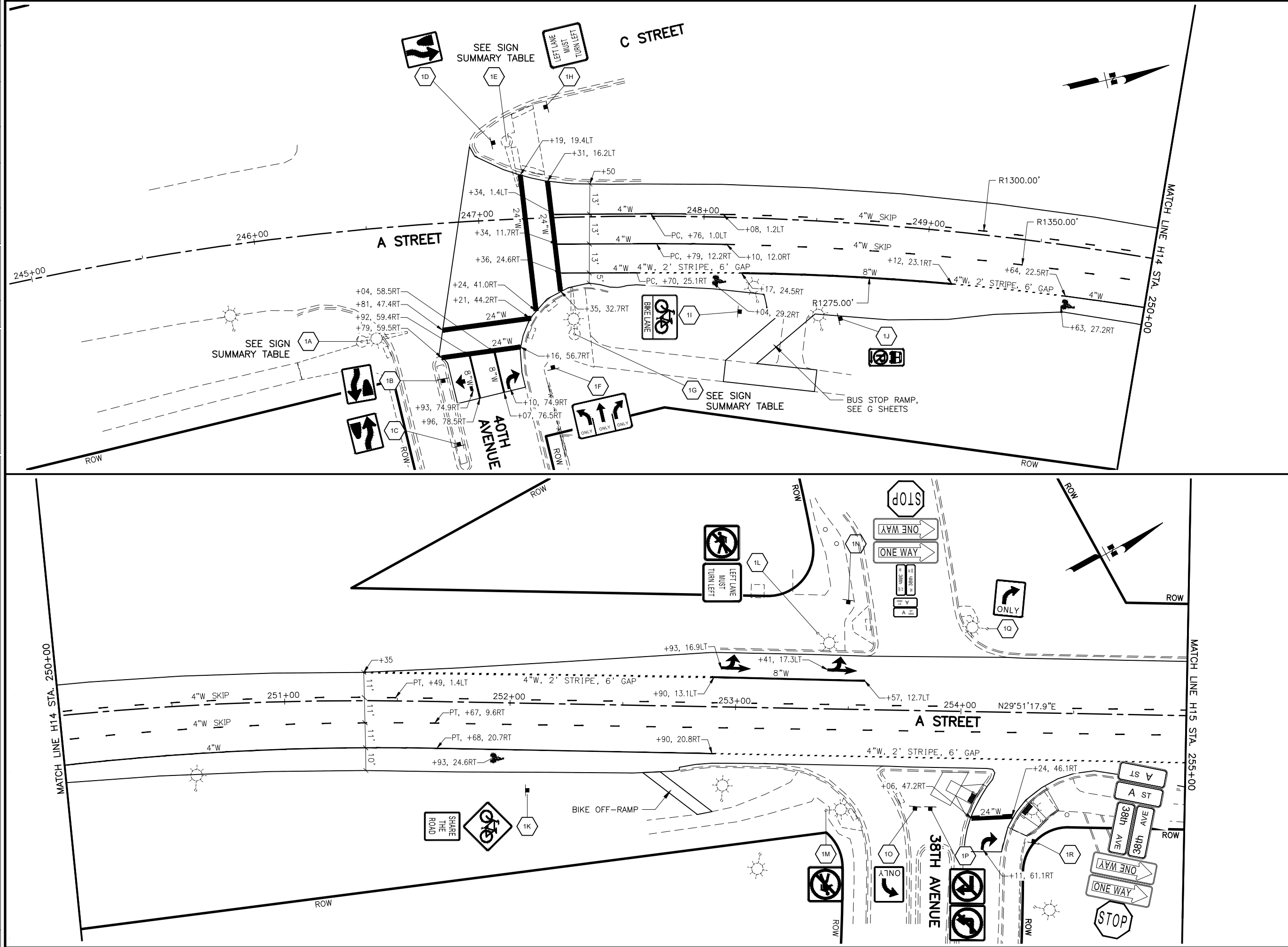
DATE	THIS SHEET SUPERSEDES ONLY: THE LIGHT SIGN FRAMING DETAILS AND SIGN POST SPACING NOTE 2.B. ON STD. DWG. S-00.11, AND ENTIRELY REPLACES STD. DWG. S-01.00
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**LIGHT SIGN FRAMING AND
ATTACHMENT DETAILS**



SHEET NO.	TOTAL SHEETS
H14	H38
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

NORTHERN LIGHTS BOULEVARD

BENSON BOULEVARD

31ST AVENUE

32ND AVENUE

34TH AVENUE

36TH AVENUE

38TH AVENUE

40TH AVENUE

A STREET

CALAIS DRIVE

THIS SHEET

STATE OF ALASKA

49th

PIH

DAVID J. GAMEZ

CE-107878

REGISTERED PROFESSIONAL ENGINEER

LOUNSBURY & ASSOCIATES, INC.

5300 A STREET

ANCHORAGE, ALASKA 99518

(907) 272-5451

CERT. OF AUTH. NO. AECC391

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

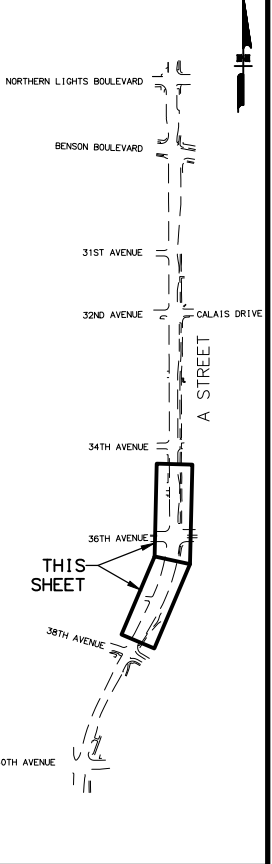
A STREET: NORTHERN LIGHTS BLVD TO 40TH AVE

PAVEMENT PRESERVATION

SIGNING AND STRIPING

BOP - 255+00

DATE	

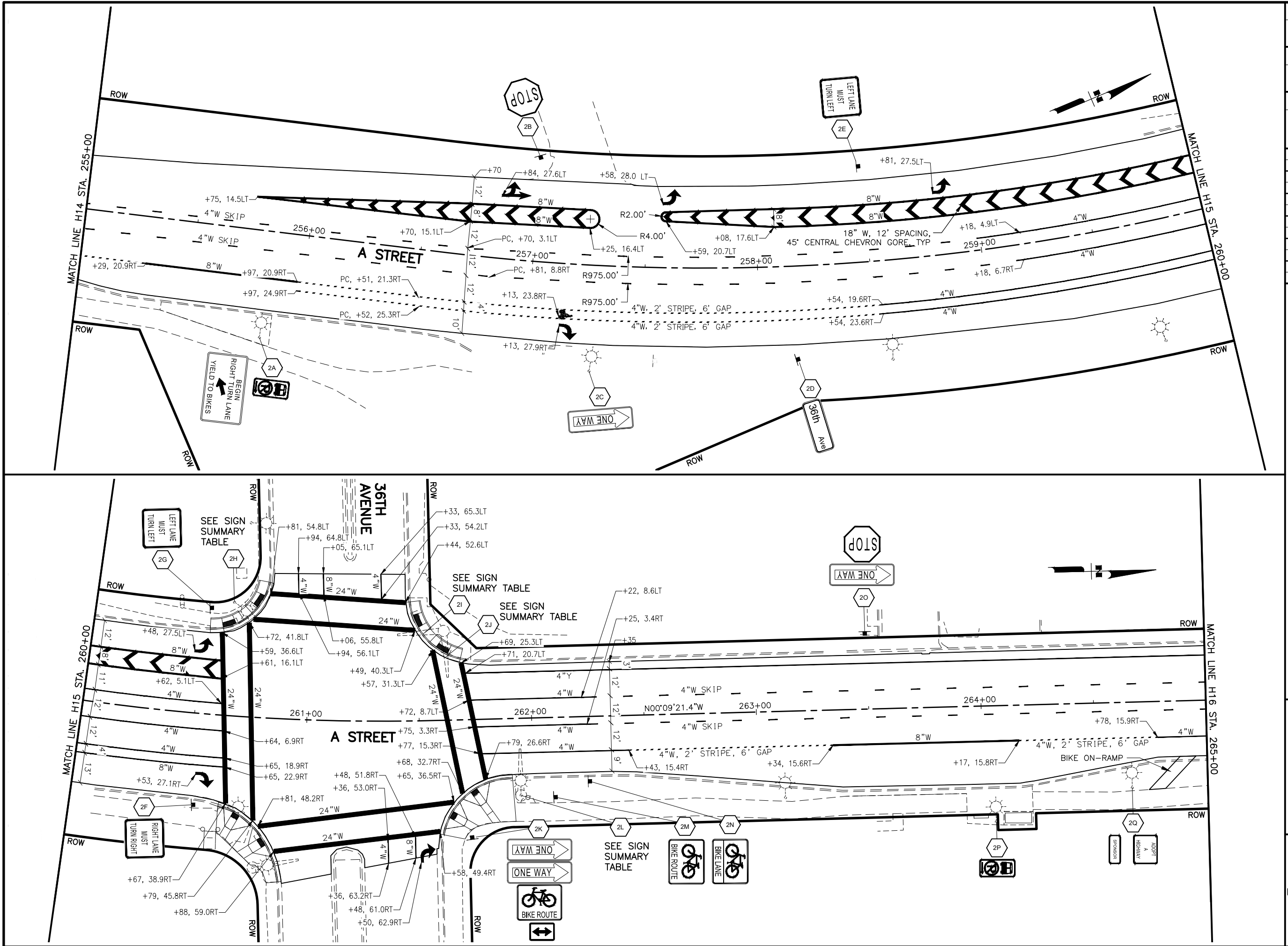


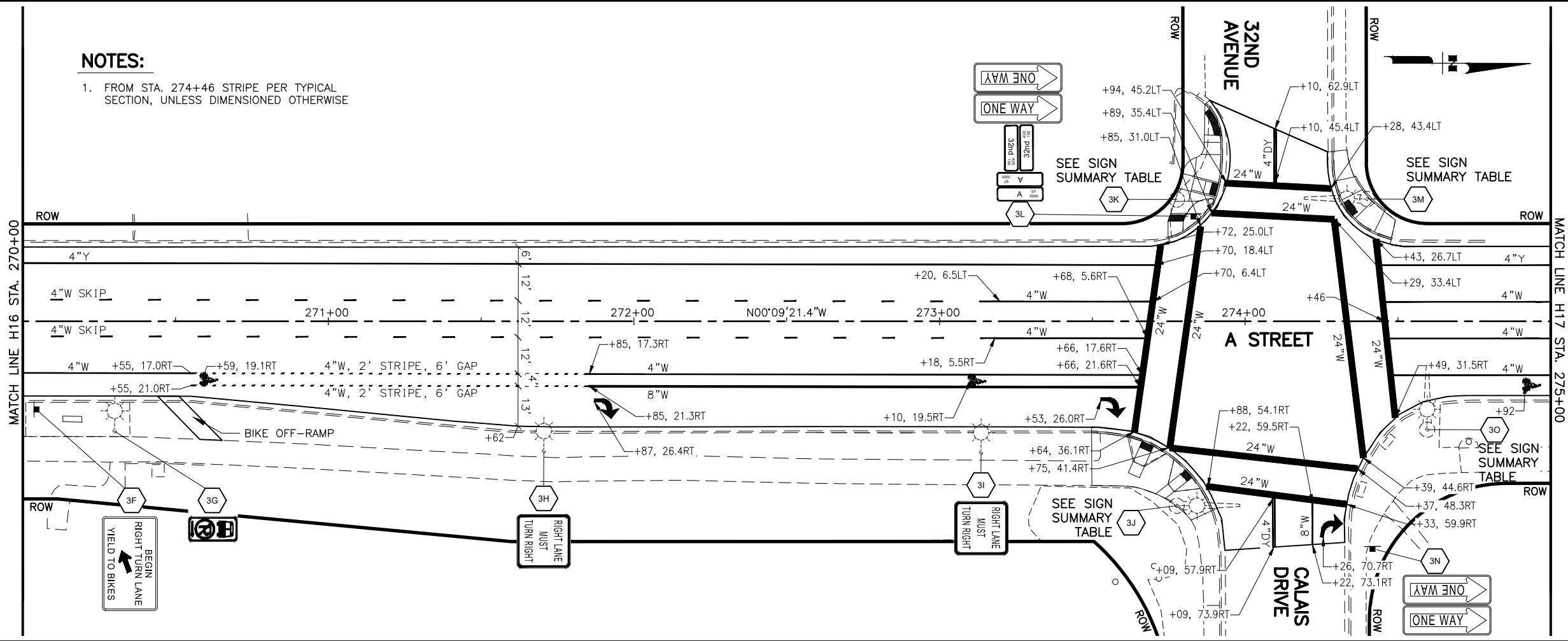
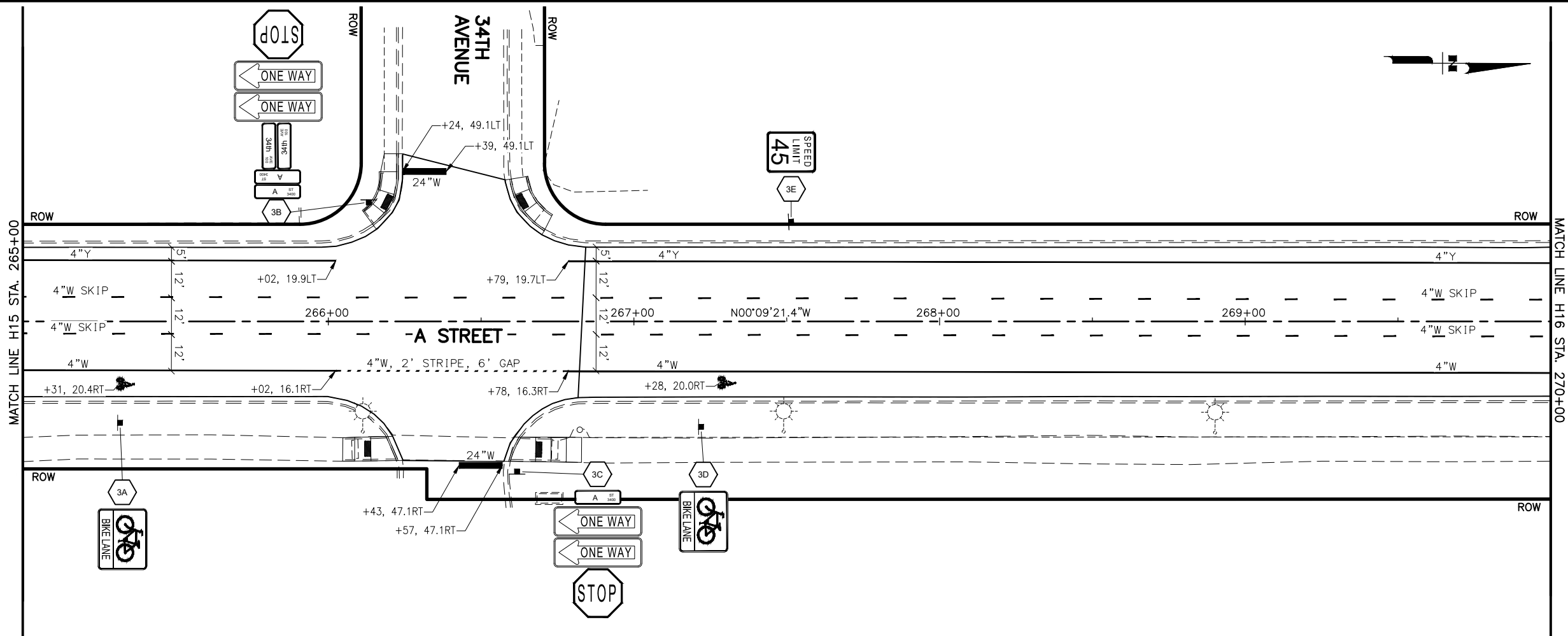
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5300 A STREET
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(907) 272-5451
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN
GHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

SIGNING AND STRIPING
255+00 - 265+00





NOTES:

1. FROM STA. 274+46 STRIPE PER TYPICAL SECTION, UNLESS DIMENSIONED OTHERWISE

SHEET NO.
H16

STATE
ALASKA

TOTAL SHEETS
H38

YEAR
2020

PROJECT DESIGNATION
**0527030/
CFHWY00223**

NO.	REVISION

NORTHERN LIGHTS BOULEVARD

BENSON BOULEVARD

31ST AVENUE

32ND AVENUE

34TH AVENUE

36TH AVENUE

38TH AVENUE

40TH AVENUE

CALAIS DRIVE

A STREET

THIS SHEET

STATE OF ALASKA

49th

PIH

DAVID J. GAMEZ

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STATE OF ALASKA

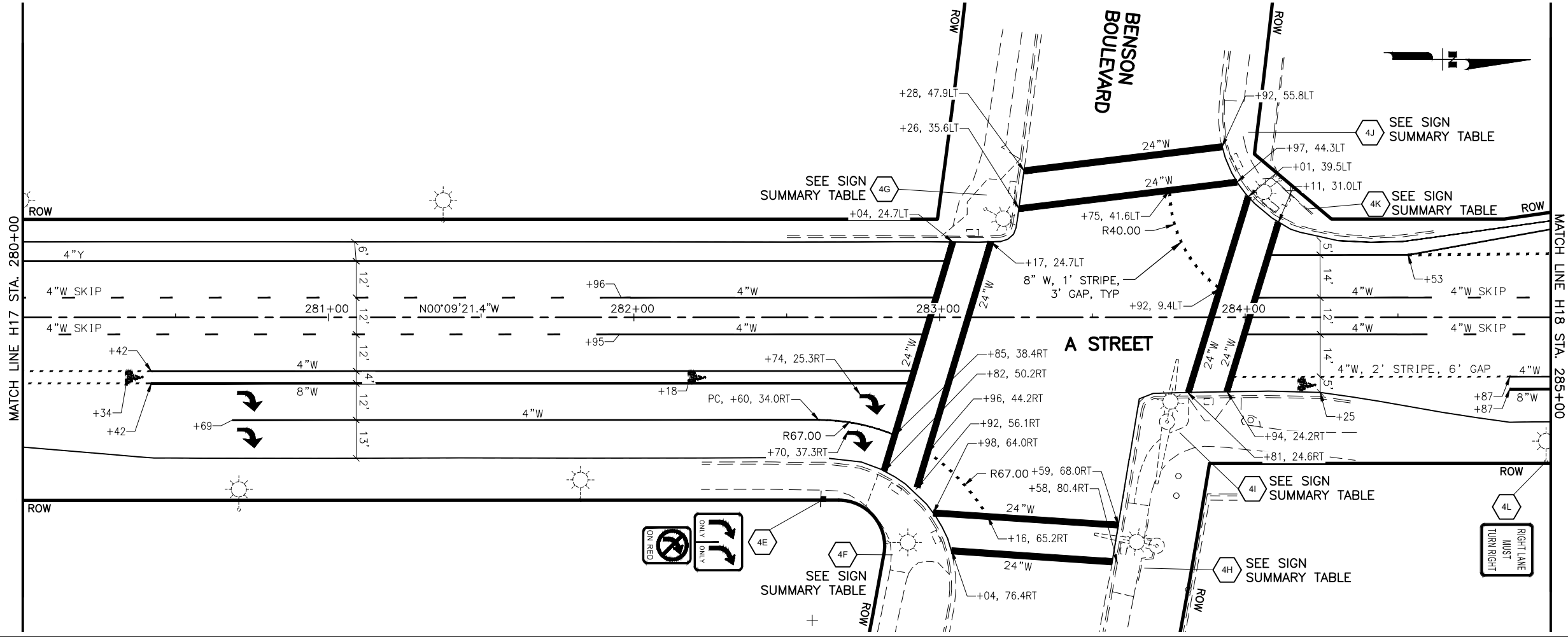
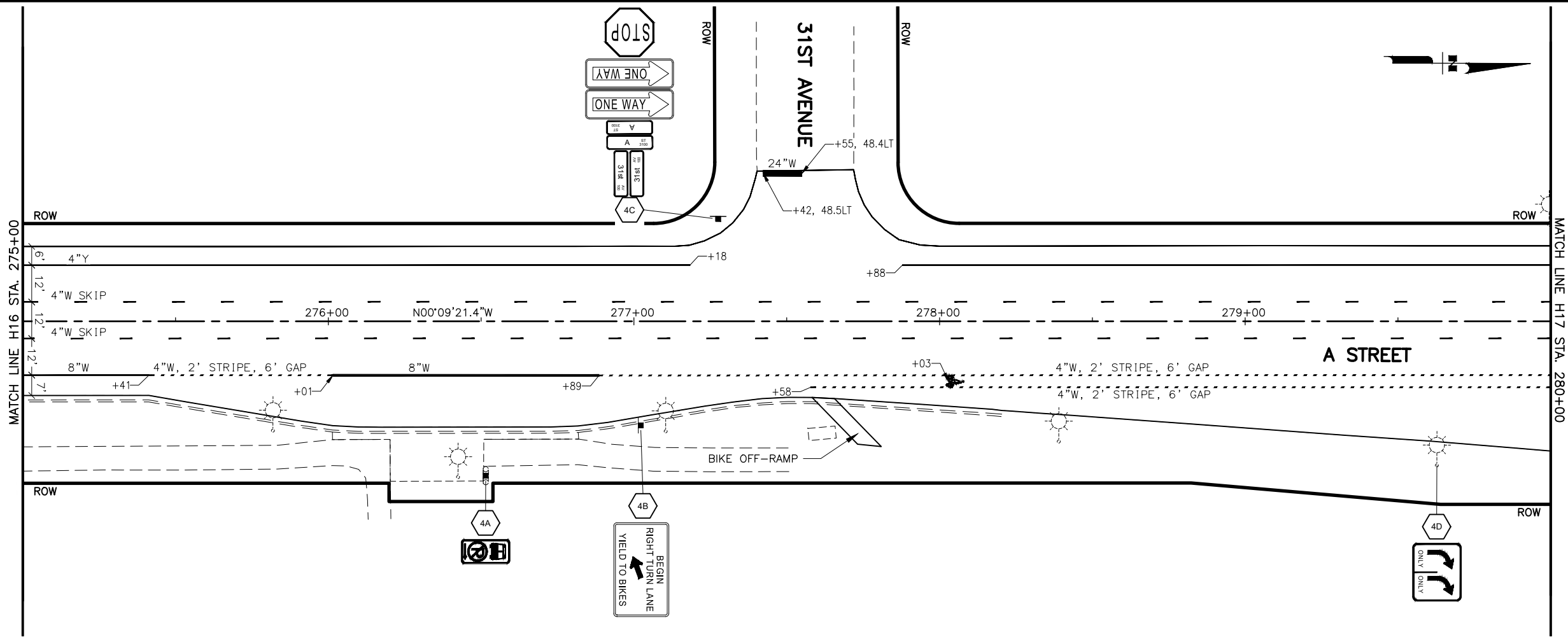
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS BLVD TO 40TH AVE

PAVEMENT PRESERVATION

SIGNING AND STRIPING

265+00 - 275+00



SHEET NO.
H17

TOTAL SHEETS
H38

STATE
ALASKA

YEAR
2020

PROJECT DESIGNATION
**0527030/
CFHWY00223**

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

NORTHERN LIGHTS BOULEVARD

BENSON BOULEVARD

THIS SHEET

31ST AVENUE

32ND AVENUE

CALAIS DRIVE

A STREET

34TH AVENUE

36TH AVENUE

38TH AVENUE

40TH AVENUE

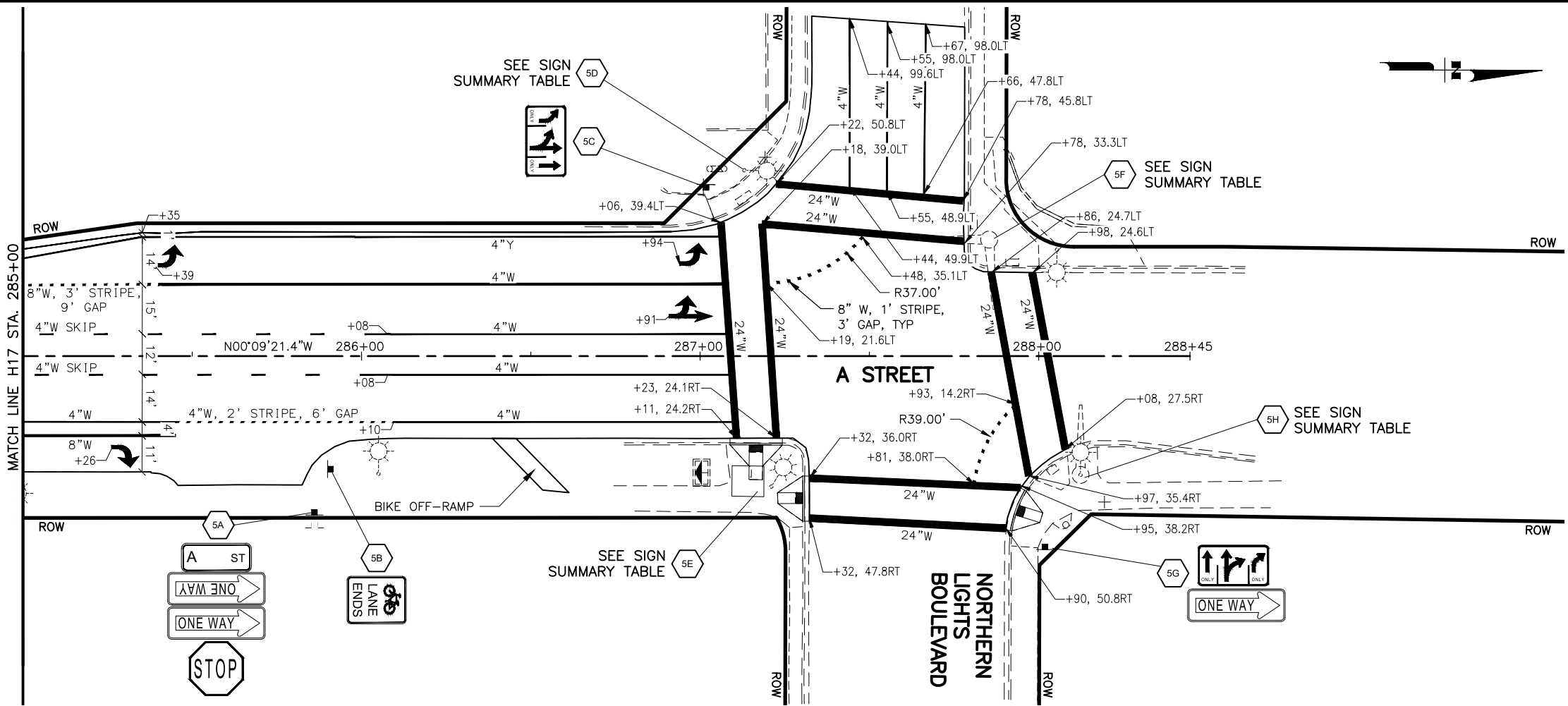
STATE OF ALASKA
49th
PIH
DAVID J. GAMEZ
CE-107878
REGISTERED PROFESSIONAL ENGINEER

LOUNSBURY & ASSOCIATES, INC.
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION**

**SIGNING AND STRIPING
275+00 - 285+00**



SHEET NO.	TOTAL SHEETS
H18	H38
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0527030/ CFHWY00223	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

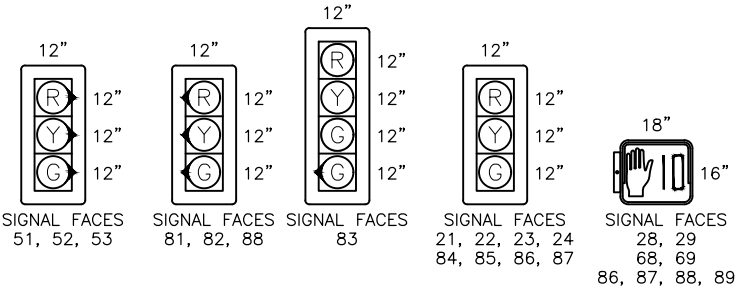
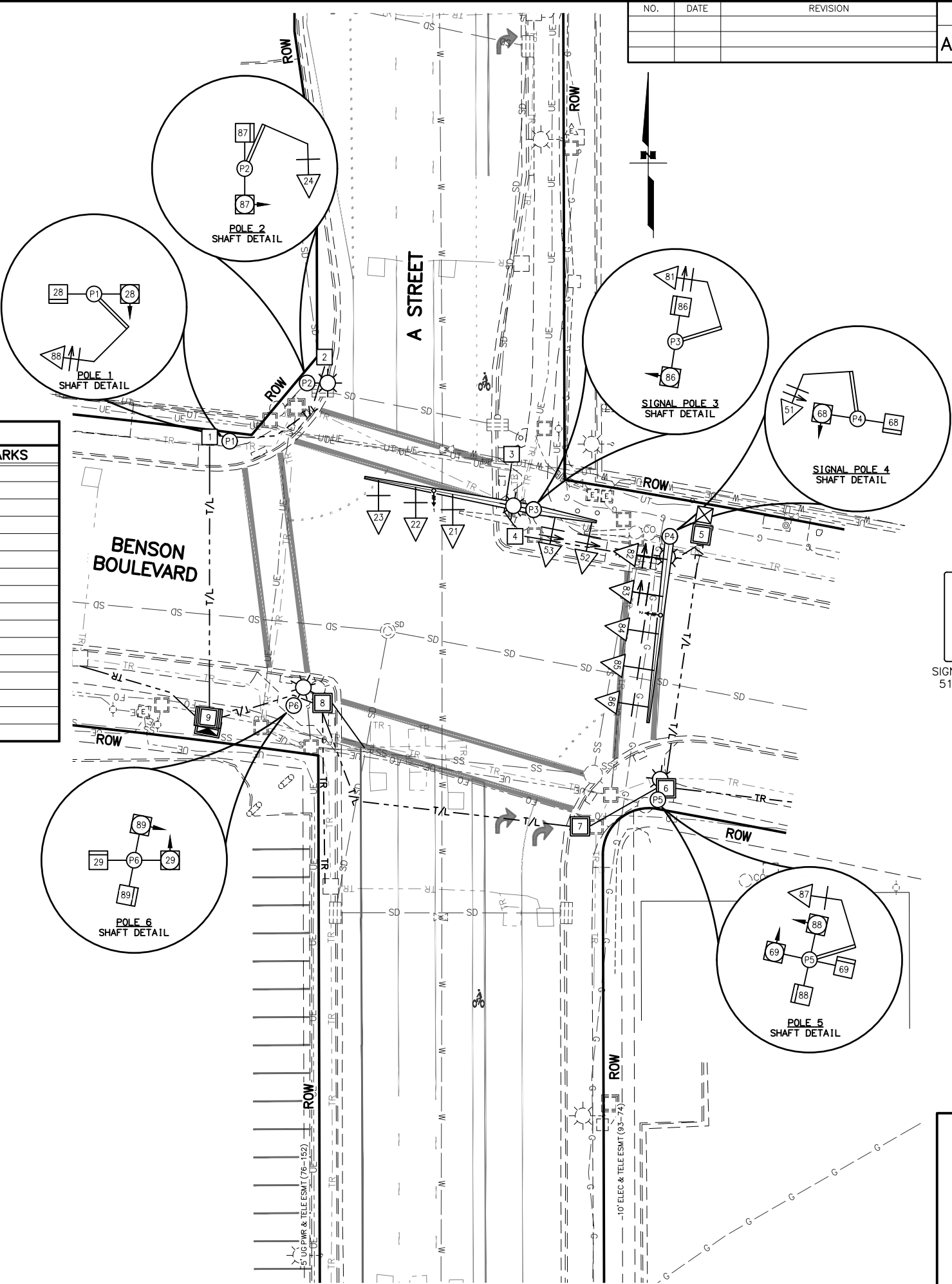
A STREET: NORTHERN
LIGHTS BLVD TO 40TH AVE
PAVEMENT PRESERVATION

SIGNING AND STRIPING
285+00 – EOP

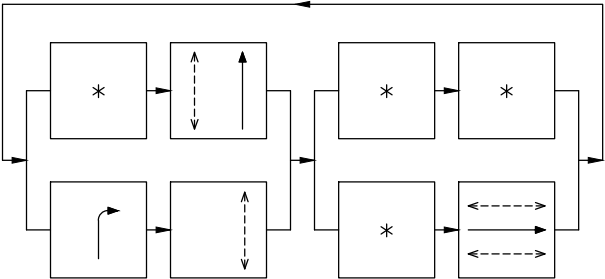
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H19	H38

STRUCTURE AND JUNCTION BOX SUMMARY					
POLE	JUNCTION BOX	CABINET	NORTHING	EASTING	REMARKS
P1			331876.75	348640.75	
P2			331895.55	348665.80	
P3			331854.57	348739.13	
P4			331845.91	348783.21	
P5			331760.71	348779.34	
P6			331791.15	348661.49	
	1		331878.09	348634.25	
	2		331903.93	348671.45	
	3		331872.51	348731.98	
	4		331845.90	348733.12	
	5		331846.53	348793.46	
	6		331764.40	348781.97	
	7		331752.11	348754.10	
	8		331792.03	348670.72	
	9		331787.35	348633.82	
		TC	331783.89	348633.74	

NEW OPTICOM DETECTOR SCHEDULE				
LOCATION	DETECTOR #	PHASE CALL	FACING DIRECTION	MODEL #
SIGNAL MAST ARM #3	1	2,5	S	721
SIGNAL MAST ARM #4	2	8	W	721

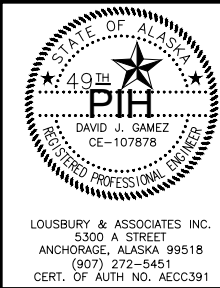


SIGNAL HEAD CONFIGURATIONS



PHASE DIAGRAM

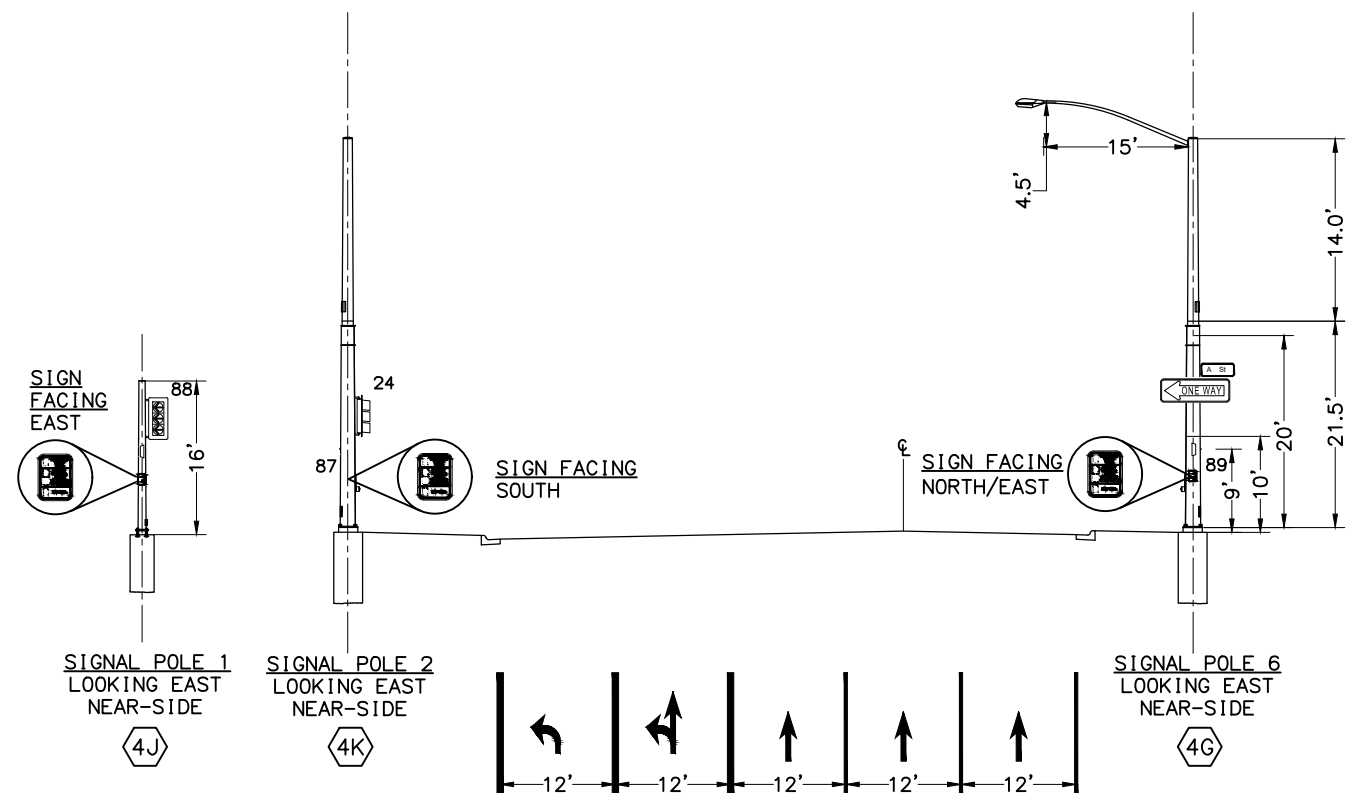
- PEDESTRIAN MOVEMENT
- PROTECTED VEHICLE MOVEMENT
- UNPROTECTED VEHICLE MOVEMENT
- FUTURE USE/NOT USED



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**
**BENSON BOULEVARD &
A STREET SIGNAL PLAN**

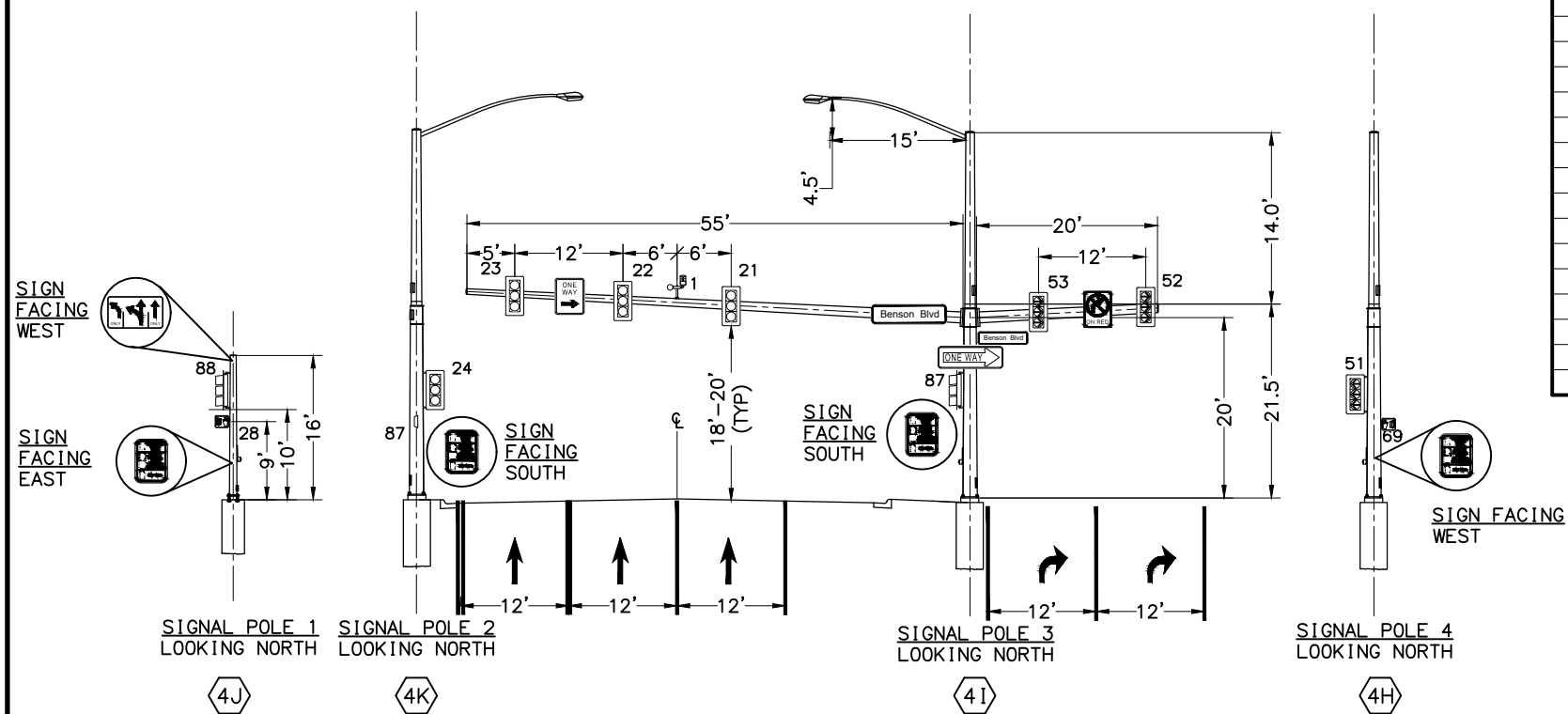
TOTAL
SHEETS

H38



LUMINAIRE STANDARDS	
MANUFACTURE	GE OR APPROVED EQUAL
MODEL	ERL2 OR APPROVED EQUAL
WATTAGE	251
LIGHT SOURCE	LED
VOLTAGE	240
PE CONTROL	ANSI C136.41 7 PIN
PE SENSOR	SHORTING CAP
MOUNTING	HORIZONTAL
HOUSING ENTRY TYPE	TOOLLESS
FIXTURE COLOR	GRAY
IES DISTRIBUTION TYPE	MC3
POWER FACTOR	>.0.90
UL LISTED	YES
DRIVE CURRENT	0.910A
CCI	3000K
CRI	MINIMUM 70
INITIAL LUMENS	26,400

LUMINAIRE PERFORMANCE CRITERIA	
INTERSECTION	
CHARACTERISTICS	
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-2014
FUNCTIONAL CLASSIFICATION	MAJOR/MAJOR
PEDESTRIAN AREA CLASSIFICATION	HIGH
LUMINAIRE	
LAMP DESCRIPTION	GE ERL2 STREET LIGHT
LIGHT LOSS FACTOR	0.85
ILLUMINANCE CRITERIA	
AVERAGE MAINTAINED ILLUMINATION	3.88 FC
AVERAGE UNIFORMITY RATIO (AVG/MIN)	2.59



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

BENSON BOULEVARD &
A STREET SIGNAL PROFILES

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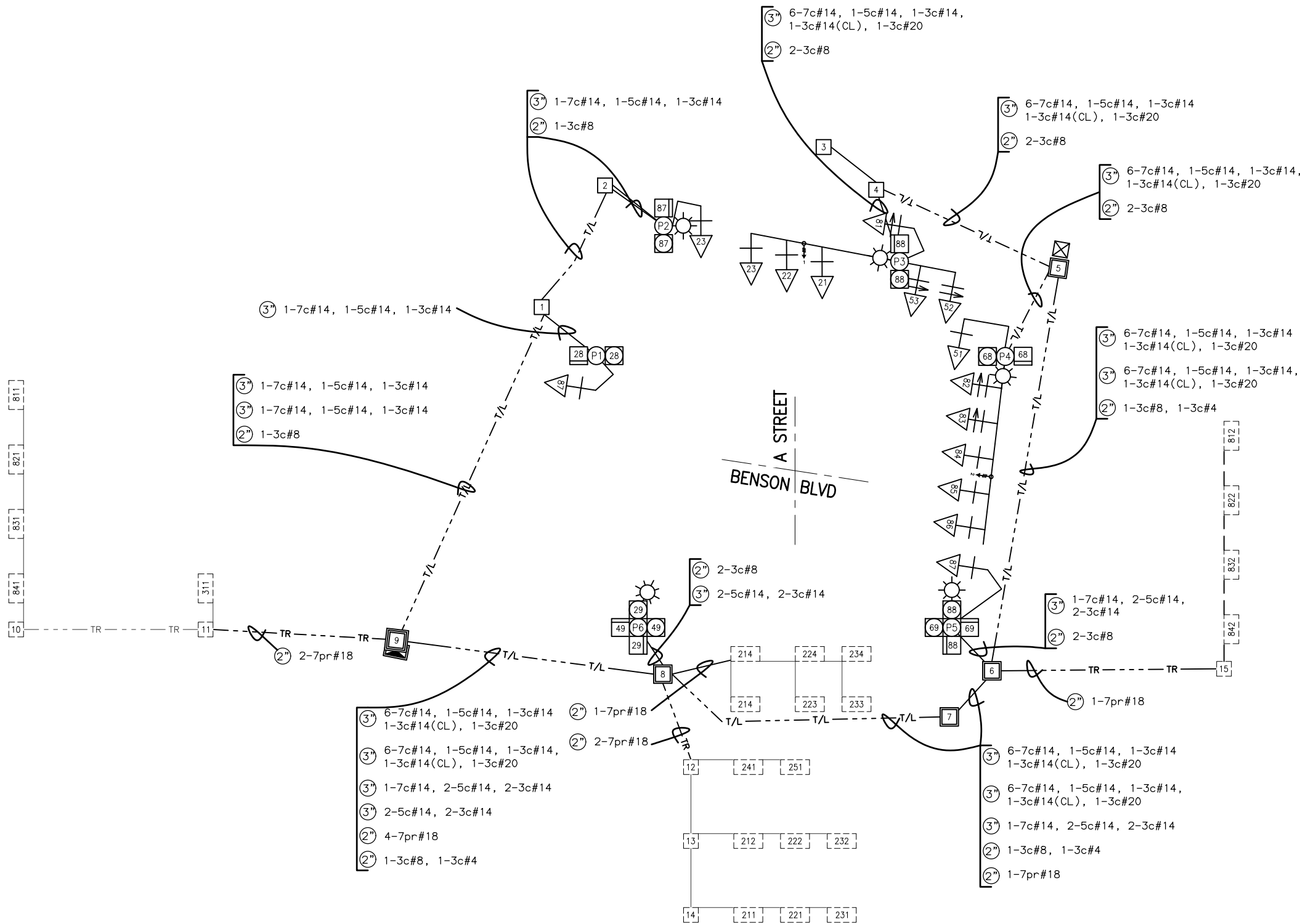
LAYOUT

DESIGNED

CHECKED

DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H21	H38



WIRING NOTES:

1. ONLY PORTIONS OF SIGNAL MODIFIED BY THIS PROJECT ARE SHOWN.
2. ALL CABLES ARE 14AWG UNLESS OTHERWISE NOTED.
3. TERMINAL STRIP CONNECTIONS OF DETECTION LEAD-IN CABLE, AND AMPLIFIER ASSIGNMENTS SHALL BE PERFORMED BY MUNICIPALITY OF ANCHORAGE



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AND PUBLIC FACILITIES

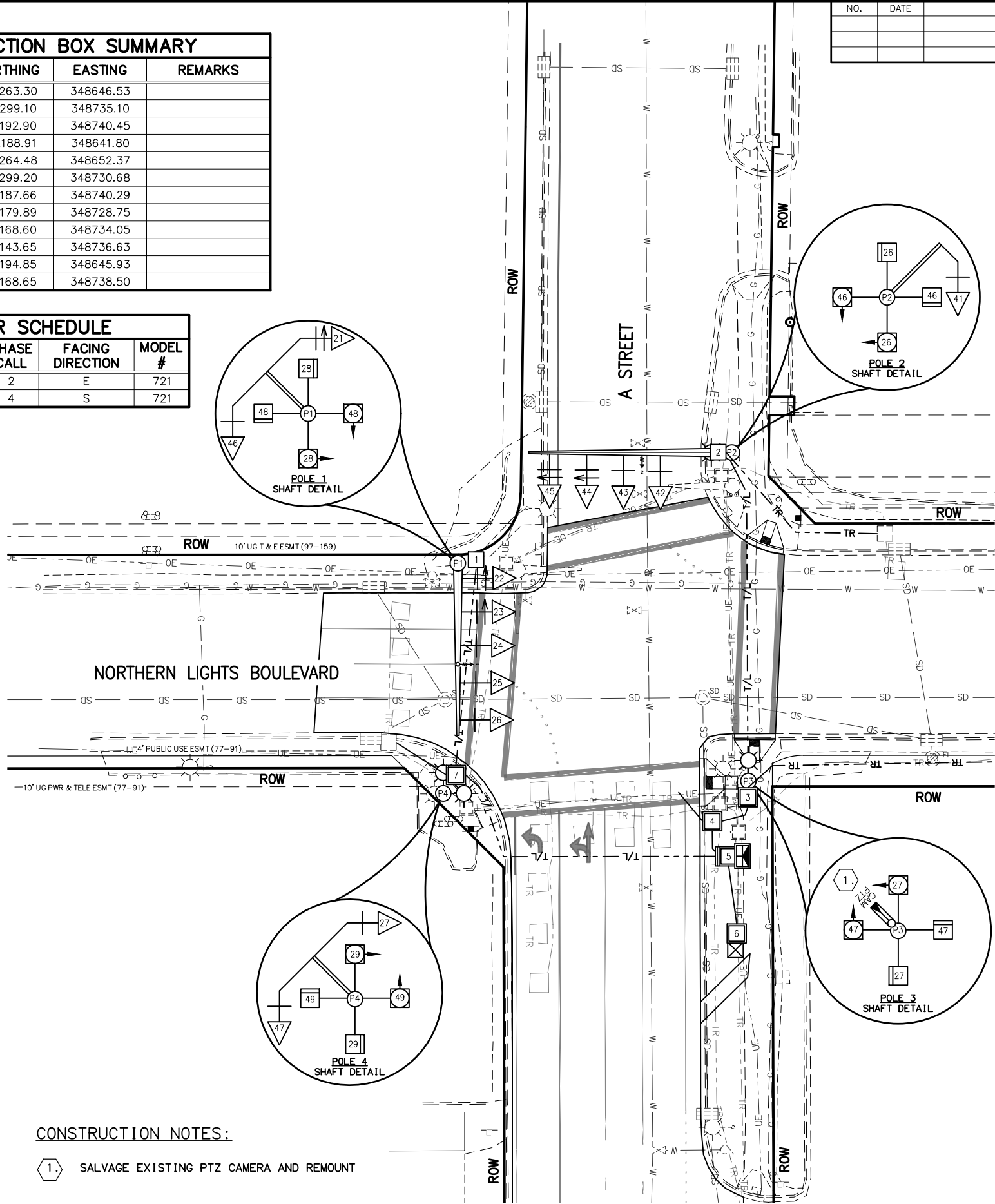
A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

BENSON BOULEVARD &
A STREET WIRING DIAGRAM

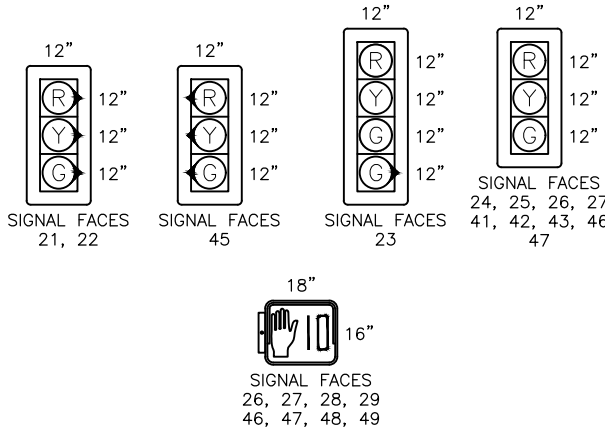
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DG
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JK
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LAYOUT
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STRUCTURE AND JUNCTION BOX SUMMARY					
POLE	JUNCTION BOX	CABINET	NORTHING	EASTING	REMARKS
P1			332263.30	348646.53	
P2			332299.10	348735.10	
P3			332192.90	348740.45	
P4			332188.91	348641.80	
	1		332264.48	348652.37	
	2		332299.20	348730.68	
	3		332187.66	348740.29	
	4		332179.89	348728.75	
	5		332168.60	348734.05	
	6		332143.65	348736.63	
	7		332194.85	348645.93	
		TC	332168.65	348738.50	

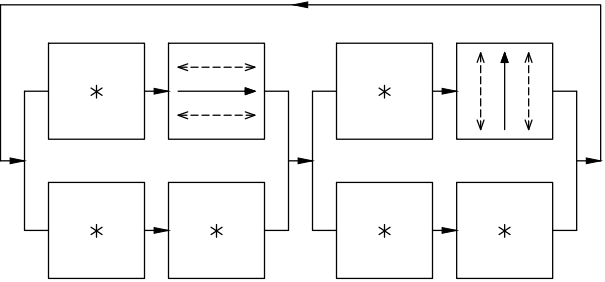
NEW OPTICOM DETECTOR SCHEDULE				
LOCATION	DETECTOR #	PHASE CALL	FACING DIRECTION	MODEL #
SIGNAL MAST ARM #1	1	2	E	721
SIGNAL MAST ARM #2	2	4	S	721



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
				0527030/CFHWY00223	2020	H22	H38



SIGNAL HEAD CONFIGURATIONS



PHASE DIAGRAM

- PEDESTRIAN MOVEMENT
- PROTECTED VEHICLE MOVEMENT
- UNPROTECTED VEHICLE MOVEMENT
- FUTURE USE/NOT USED

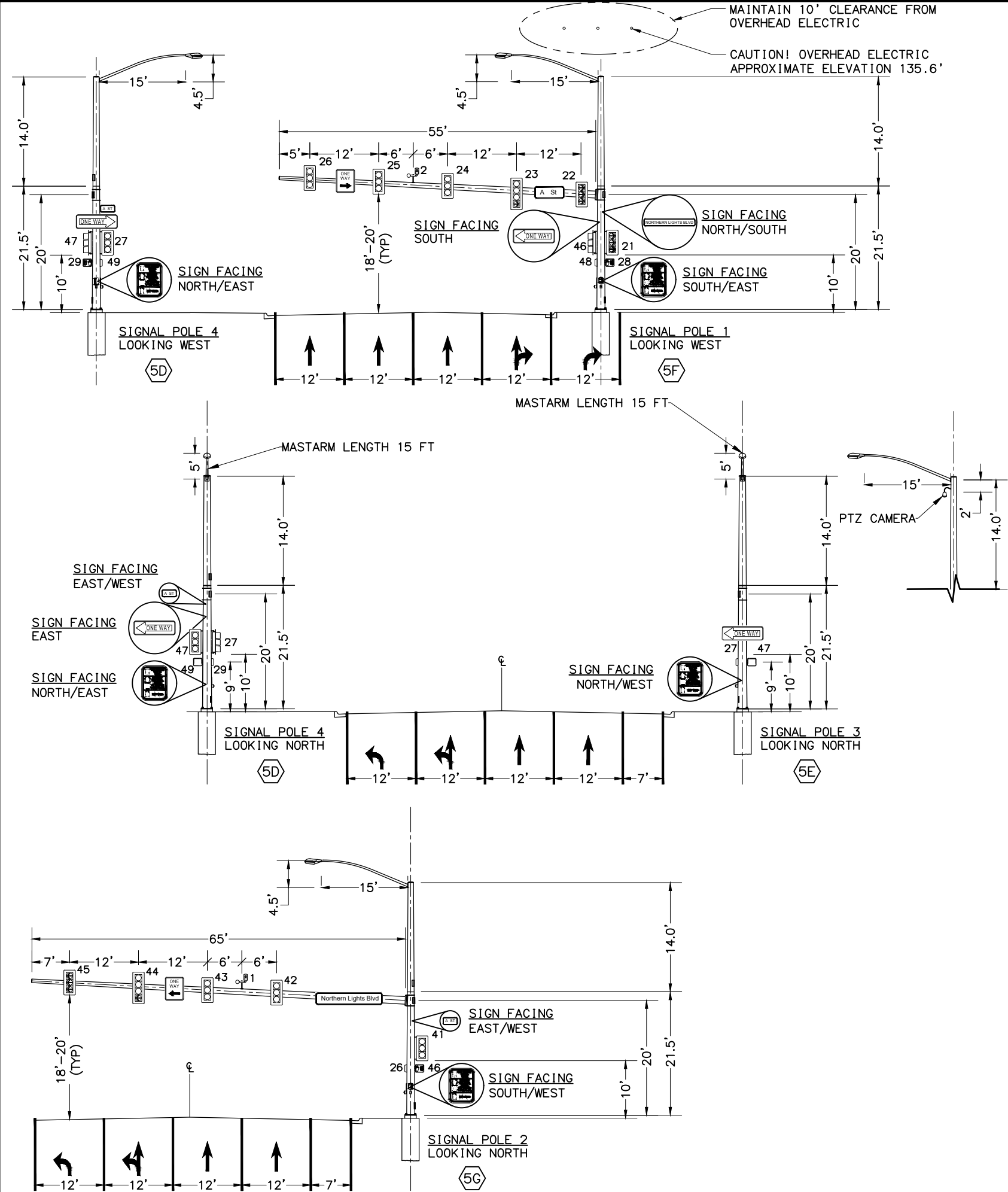
CONSTRUCTION NOTES:

- 1. SALVAGE EXISTING PTZ CAMERA AND REMOUNT



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**
**NORTHERN LIGHTS BOULEVARD
& A STREET SIGNAL PLAN**

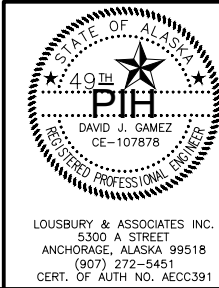
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
				0527030/CFHWY00223	2020	H23	H38

LUMINAIRE PERFORMANCE CRITERIA	
INTERSECTION CHARACTERISTICS	
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-2014
FUNCTIONAL CLASSIFICATION	MAJOR/MAJOR
PEDESTRIAN AREA CLASSIFICATION	HIGH
LUMINAIRE	
LAMP DESCRIPTION	GE ERL2 STREET LIGHT
LIGHT LOSS FACTOR	0.85
ILLUMINANCE CRITERIA	
AVERAGE MAINTAINED ILLUMINATION	3.50 FC
AVERAGE UNIFORMITY RATIO (AVG/MIN)	2.50

LUMINAIRE STANDARDS	
MANUFACTURE	GE OR APPROVED EQUAL
MODEL	ERL2 OR APPROVED EQUAL
WATTAGE	251
LIGHT SOURCE	LED
VOLTAGE	240
PE CONTROL	ANSI C136.41 7 PIN
PE SENSOR	SHORTING CAP
MOUNTING	HORIZONTAL
HOUSING ENTRY TYPE	TOOLLESS
FIXTURE COLOR	GRAY
IES DISTRIBUTION TYPE	MC3
POWER FACTOR	>.0.90
UL LISTED	YES
DRIVE CURRENT	0.910A
CCI	3000K
CRI	MINIMUM 70
INITIAL LUMENS	26,400



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

NORTHERN LIGHTS BOULEVARD
& A STREET SIGNAL PROFILES

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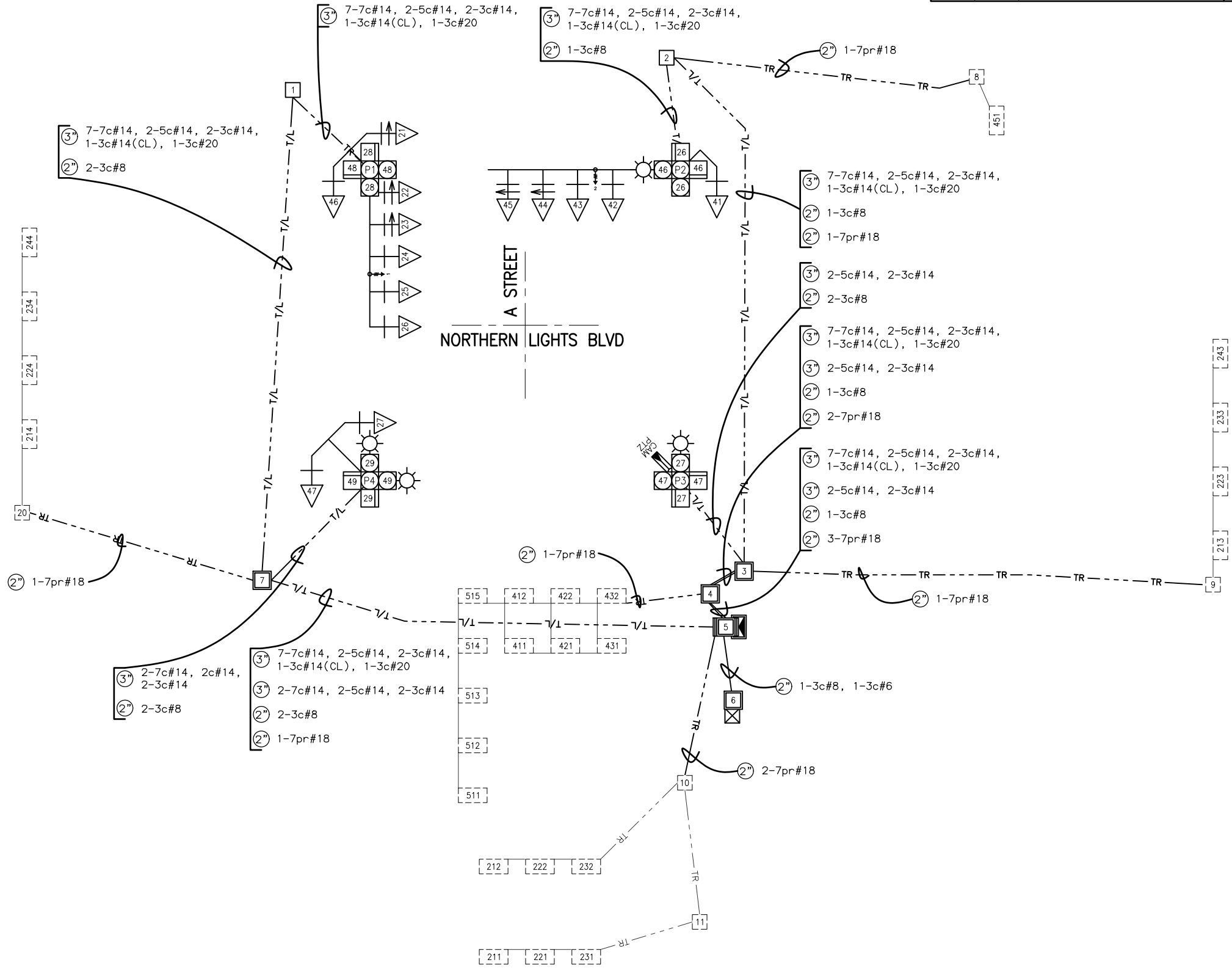
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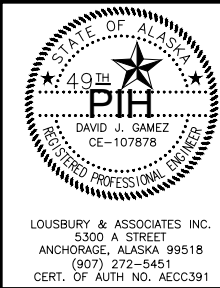
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H24	H38



- WIRING NOTES:
- ONLY PORTIONS OF SIGNAL MODIFIED BY THIS PROJECT ARE SHOWN.
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 - TERMINAL STRIP CONNECTIONS OF DETECTION LEAD-IN CABLE, AND AMPLIFIER ASSIGNMENTS SHALL BE PERFORMED BY MUNICIPALITY OF ANCHORAGE



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

NORTHERN LIGHTS BOULEVARD
& A STREET WIRING DIAGRAM

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LAYOUT

DESIGNED

JK

CHECKED

DG

DRAFTED

AH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H25	H38

SUMMARY OF LOAD CENTER "A"													
LOAD CENTER TYPE:			TYPE 1A										
MAINTAINED BY:			STATE OF ALASKA										
SERVING UTILITY:			MUNICIPAL LIGHT & POWER										
SERVICE CONDUIT TYPE:			RIGID METAL CONDUIT										
LOCATION DATA													
LOAD CENTER:			BENSON BOULEVARD AND A STREET										
POWER SOURCE:			NEW LINE EXTENSION										
PHOTOELECTRIC CONTROL:			AT LOAD CENTER										
SERVICE VOLTAGE:			120/240V, 1-PHASE, 3-WIRE WITH GROUNDED NEUTRAL										
PROVIDE METER SOCKET:			NEW										
MAIN CIRCUIT BREAKER:			240V, 100A, 2-POLE										
CONTACTOR:			600V, 6-POLE, 30A										
AIC RATING:			10,000A										
PANEL A													
POLE	AMP TRIP	DESCRIPTION	POLE KVA	AØ	BØ	POLE KVA	DESCRIPTION	AMP TRIP	POLE				
1	15/1	PHOTOCELL	0.1	4.9		4.8	TRAFFIC CONTROLLER	50/1	2				
3	20/2	INTX LIGHTING	0.6		0.6	0.6	SPARE	20/2	4				
5			0.6	0.6	0.6			6					
7			0.0		0.0	0.0	SPARE	20/2	8				
9			0.0	0.0		0.0				10			
11			0.0		0.0	0.0			12				
13			0.0	0.0		0.0			14				
15			0.0		0.0	0.0			16				
17			0.0	0.0		0.0			18				
* = THROUGH CONTACTOR				5.5	0.6	TOTAL KVA				6.1			
								AMPS				25.4	

SHORT CIRCUIT CALCULATION - LC "A"	
480V IN A 1-PH, 3W CONFIGURATION WITH A POWER-FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE.	
TRANSFORMER RATING	25KVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.2%
TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	8,681A
LENGTH TO FAULT	20'
SERVICE CONDUCTOR SIZE	#2 AWG
SERVICE CONDUIT	HDPE
LINE-LINE FAULT	6,704A

ARC FLASH AND SHOCK HAZARD RESULTS - LC "A"	
ARC FLASH BOUNDARY	13.6"
INCIDENT ENERGY IN CAL/CM^2	0.77
WORKING DISTANCE	18"
INSULATING GLOVES CLASS	00
SHOCK HAZARD	240V
LIMITED APPROACH BOUNDARY	42"
RESTRICTED APPROACH BOUNDARY	12"
CALCULATED DATE	6/15/2020

SUMMARY OF LOAD CENTER "B"													
LOAD CENTER TYPE:			TYPE 1A										
MAINTAINED BY:			STATE OF ALASKA										
SERVING UTILITY:			MUNICIPAL LIGHT & POWER										
SERVICE CONDUIT TYPE:			RIGID METAL CONDUIT										
LOCATION DATA													
LOAD CENTER:			NORTHERN LIGHTS BOULEVARD AND A STREET										
POWER SOURCE:			NEW LINE EXTENSION										
PHOTOELECTRIC CONTROL:			AT LOAD CENTER										
SERVICE VOLTAGE:			120/240V, 1-PHASE, 3-WIRE WITH GROUNDED NEUTRAL										
PROVIDE METER SOCKET:			NEW										
MAIN CIRCUIT BREAKER:			240V, 100A, 2-POLE										
CONTACTOR:			600V, 6-POLE, 30A										
AIC RATING:			10,000A										
PANEL A													
POLE	AMP TRIP	DESCRIPTION	POLE KVA	AØ	BØ	POLE KVA	DESCRIPTION	AMP TRIP	POLE				
1	15/1	PHOTOCELL	0.1	4.9		4.8	TRAFFIC CONTROLLER	50/1	2				
3	20/2	INTX LIGHTING	0.5		0.5	0.0	SPARE	20/2	4				
5			0.5	0.5		0.0			6				
7			0.0		0.0	0.0	SPARE	20/2	8				
9			0.0	0.0		0.0			10				
11			0.0		0.0	0.0			12				
13			0.0	0.0		0.0			14				
15			0.0		0.0	0.0			16				
17			0.0	0.0		0.0			18				
				5.4	0.5	TOTAL KVA					5.9		
* = THROUGH CONTACTOR												AMPS	24.6

SHORT CIRCUIT CALCULATION - LC "B"	
480V IN A 1-PH, 3W CONFIGURATION WITH A POWER-FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE.	
TRANSFORMER RATING	25KVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.2%
TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	8,681A
LENGTH TO FAULT	200'
SERVICE CONDUCTOR SIZE	2/0 AWG
SERVICE CONDUIT	HDPE
LINE-LINE FAULT	2,807A

ARC FLASH AND SHOCK HAZARD RESULTS - LC "B"	
ARC FLASH BOUNDARY	20.9"
INCIDENT ENERGY IN CAL/CM^2	1.52
WORKING DISTANCE	18"
INSULATING GLOVES CLASS	00
SHOCK HAZARD	240V
LIMITED APPROACH BOUNDARY	42"
RESTRICTED APPROACH BOUNDARY	12"
CALCULATED DATE	6/15/2020

NOTES:

1. CONTRACTOR SHALL VERIFY ALL ASSUMPTIONS IN THE SHORT CIRCUIT CALCULATIONS AND NOTIFY THE ENGINEER PRIOR TO APPLYING LABELS TO THE LOAD CENTERS. IN THE EVENT OF A DISCREPANCY, THE ENGINEER WILL PROVIDE A NEW CALCULATION.



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

LOAD CENTER SUMMARY

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H26	H38

- NOTES:
1. APPLICABLE STATE OF ALASKA DOT&PF ELECTRICAL EQUIPMENT MUST BE LABELED WITH DOT&PF-DEFINED SITE-SPECIFIC PPE LEVELS, AS DEFINED IN NFPA 70E 130.5(H)(3)(c). THE LEVELS ARE: LEVEL 1 (0 TO 4 CAL/CM²), 2 (4.1 TO 8.0 CAL/CM²), 3 (8.1 TO 25.0 CAL/CM²), 4 (25.1 TO 39.9 CAL/CM²), OR WP (WORK PROHIBITED, FOR EQUIPMENT IN WHICH THE CALCULATED ARC FLASH INCIDENT ENERGY IS ≥ 40 CAL/CM²).
 2. MINIMUM PPE REQUIREMENTS FOR EACH PPE LEVEL DESCRIBED IN NOTE 1 ARE THE SAME REQUIREMENTS AS DESCRIBED IN NFPA 70E TABLE 130.7(C)(15)(c). THESE PPE REQUIREMENTS ARE TO BE USED AS THE SITE-SPECIFIC PPE LEVELS.

4"

FLAG LEGEND COLOR, BLACK

FLAG BACKGROUND COLOR, HAZARD ORANGE

!WARNING

ARC FLASH AND SHOCK HAZARD PRESENT

APPROPRIATE PPE REQUIRED

Arc Flash Boundary

Incident Energy in cal/cm²

Working Distance

Shock Hazard Exposure

Insulating Gloves Class

Shock Hazard

Limited Approach Boundary

Restricted Approach Boundary

ENCLOSURE TAG OR NAME

Ft

In

VAC

Ft

Ft

6"

Level

Minimum PPE Requirements

Calculated available fault current:

SITE INFORMATION, IF APPLICABLE

DATE CALCULATION WAS PERFORMED

SEE NOTE 1

SEE NOTE 2

WATERMARK IS OPTIONAL. WATERMARK COLOR, GRAY

MAIN BACKGROUND COLOR, WHITE

STATIC LEGEND COLOR, BLACK

FILL CALCULATION VALUES AND NOTES WITH BOLD TEXT. VALUE AND NOTE LEGEND COLOR, BLACK

1

INSERT DESCRIPTION OF MINIMUM PPE REQUIREMENTS.

STATE OF ALASKA

49TH

PIE

DAVID J. GAMEZ

CE-107878

REGISTERED PROFESSIONAL ENGINEER

LOUSBURY & ASSOCIATES INC.
5300 A STREET
ANCHORAGE, ALASKA 99518
(907) 272-5451
CERT. OF AUTH NO. AECC391

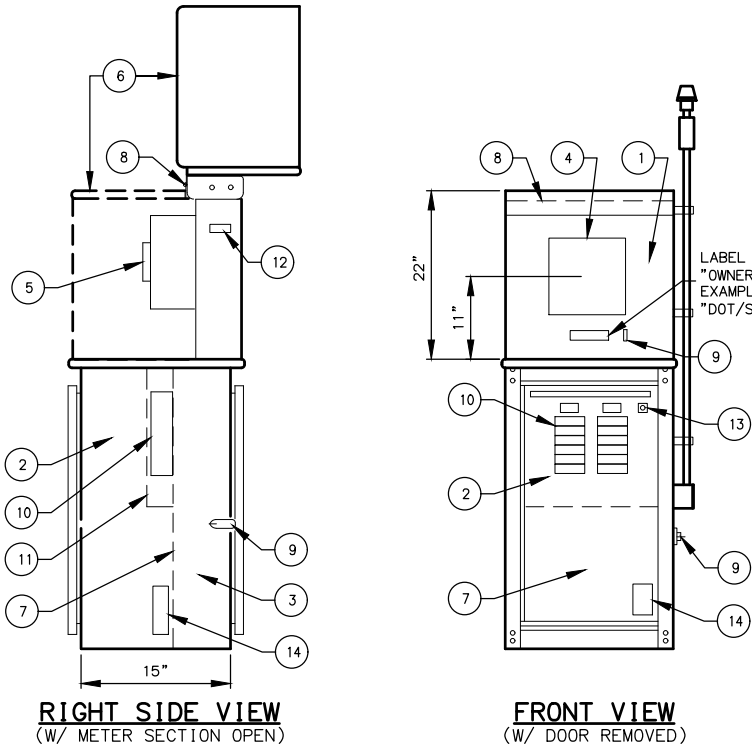
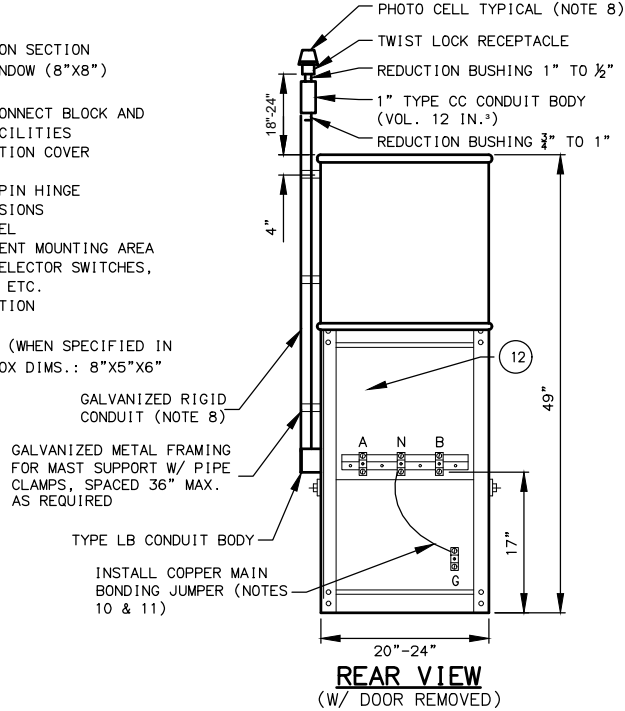
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

ARC FLASH AND SHOCK
HAZARD LABELING DETAILS

EQUIPMENT LEGEND/DESCRIPTION

1. METERING SECTION
2. LOAD SECTION
3. UTILITY CONNECTION SECTION
4. METER READING WINDOW (8"x8")
5. METER SOCKET W/ TEST-BYPASS/DISCONNECT BLOCK AND SAFETY SOCKET FACILITIES
6. HINGED METER SECTION COVER
7. DEADFRONT
8. STAINLESS STEEL PIN HINGE
9. PADLOCKING PROVISIONS
10. DISTRIBUTION PANEL
11. ACCESSORY EQUIPMENT MOUNTING AREA FOR CONTACTOR, SELECTOR SWITCHES, TERMINAL STRIPS, ETC.
12. SERVICE PULL SECTION
13. SELECTOR SWITCH
14. ENCLOSURE HEATER (WHEN SPECIFIED IN THE PLANS). APPROX DIMS.: 8"x5"x6"



TYPE 1A CABINET DETAILS

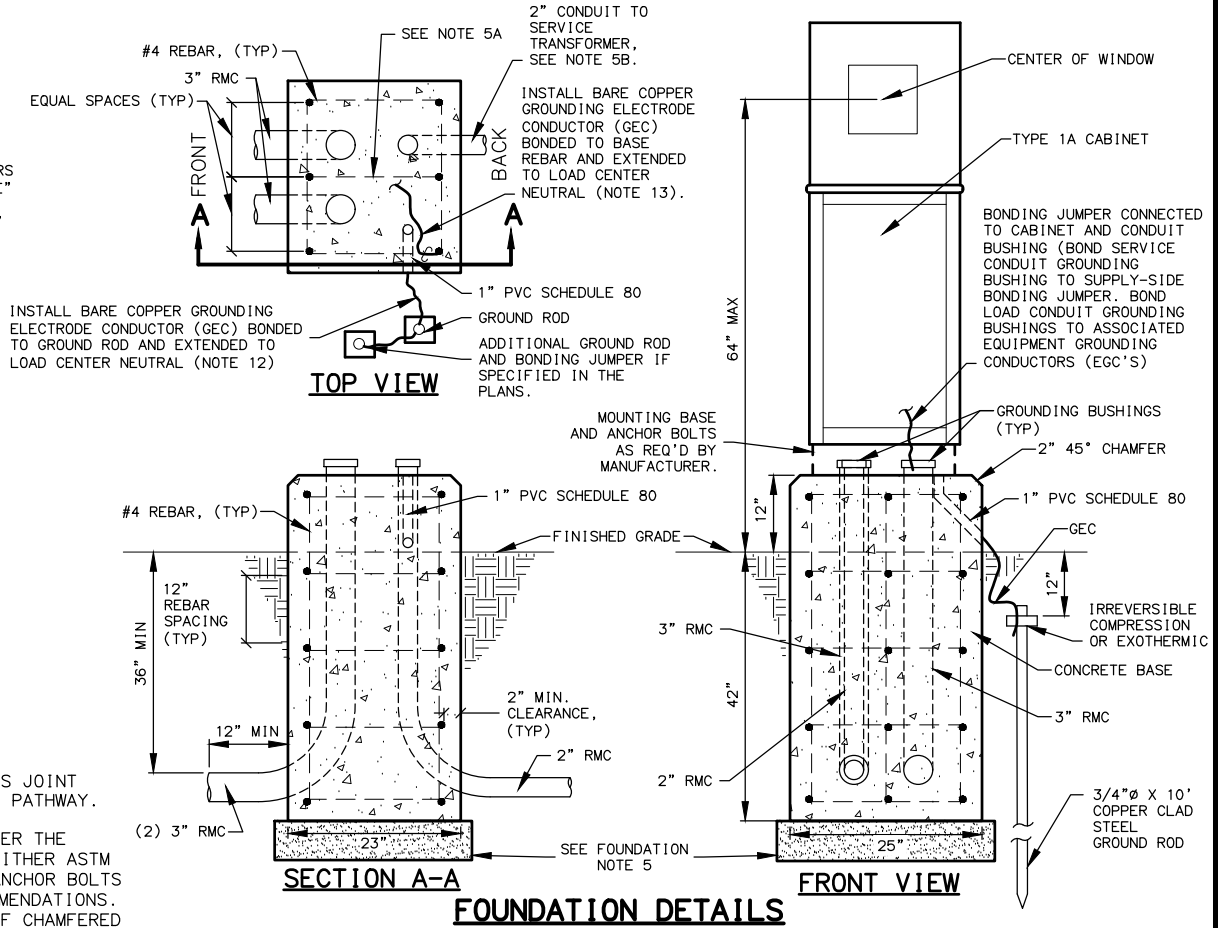
FOUNDATION NOTES:

1. GRADE AWAY FROM THE BASE WITH A MINIMUM SLOPE OF 3%. USE A PRE-MOULDED BITUMINOUS JOINT BETWEEN THE BASE AND CONCRETE SIDEWALK OR PAVING, WHEN ADJACENT TO A SIDEWALK OR PATHWAY.
2. PROVIDE ANCHOR BOLTS OR EXPANSION ANCHORS IN THE BASE FOR MOUNTING THE CABINET PER THE MANUFACTURER'S SHOP DRAWINGS. ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO EITHER ASTM A307 OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. PROVIDE "J" ANCHOR BOLTS IF REQUIRED TO MOUNT LOAD CENTER CABINET IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ENSURE 2" MIN. CLEARANCE IS MAINTAINED BETWEEN EDGE OF BOLT HOLE AND BEGINNING OF CHAMFERED EDGE.
3. USE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM 615 AND CLASS "B" CONCRETE CONFORMING TO SECTION 550 OF THE SPECIFICATIONS WHEN CASTING THE BASE.
4. IF THE BASE IS PRECAST, INSTALL TWO 3/4" FERRULE LOOP INSERTS IN TWO SIDES OPPOSITE ONE ANOTHER FOR LIFTING.
5. WHEN INSTALLING THE BASE, EXCAVATE AND INSTALL A DRAIN CONSISTING OF 12" MIN. OF COARSE CONCRETE AGGREGATE, OR OTHER APPROVED NON-FROST SUSCEPTIBLE COMPACTED BACKFILL.

WIRING NOTES:

1. FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, PLUS TWO 20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF TWO ADDITIONAL 2-POLE CIRCUIT BREAKERS IN EACH LOAD PANEL. SEE THE LOAD CENTER SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS, SHORT CIRCUIT INTERRUPTING RATINGS, AND THE NAME OF THE SERVING UTILITY.
2. INSTALL GROUNDING HUBS THIRD PARTY CERTIFIED FOR WET LOCATIONS, WHEN ATTACHING CONDUITS TO THE LOAD CENTER ENCLOSURE.
3. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
4. METER BASES SHALL NOT BE MOUNTED ON MOVABLE PANELS OR DOORS.
5. THE LENGTH AND TYPE OF SERVICE ENTRANCE CONDUIT REQUIRED TO BE INSTALLED BY THE CONTRACTOR VARIES BY ELECTRIC UTILITY. REGARDLESS OF ITS LENGTH, INSTALL A PULL ROPE IN THE SERVICE CONDUIT AND A CAP ON THE BURIED END: MARK THE BURIED END WITH A 2"x6" WOOD STAKE. SEE THE LOAD CENTER SUMMARY(IES) IN THE PLANS FOR THE FOLLOWING INFORMATION.
A. STATION AND OFFSET OF THE LOAD CENTER AND POWER SOURCE.
B. WHERE THE SERVICE ENTRANCE CONDUIT IS TO BE TERMINATED BY THE CONTRACTOR.
C. THE TYPE OF SERVICE ENTRANCE CONDUIT (SUCH AS RIGID METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT).
6. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST THAT INCLUDES THE MANUFACTURER'S NAME AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER. INSTALL THE POCKET ON THE LOAD CENTER DOOR, PROVIDING DRAIN HOLES TO PREVENT WATER ACCUMULATION.
7. SIZE THE DISTRIBUTION PANEL TO ACCOMMODATE THE CIRCUITS SHOWN ON THE LOAD CENTER SUMMARIES AND SPARE CIRCUITS AS DEFINED IN WIRING NOTE 1.
8. INSTALL THE PHOTOELECTRIC CONTROL UNIT ON A 3/4" OR LARGER CONDUIT. LOCATE THE UNIT 18"-24" ABOVE THE TOP OF THE LOAD CENTER. ORIENT THE CONTROL WINDOW FACING NORTH AND/OR AWAY FROM ARTIFICIAL LIGHT SOURCES THAT MAY INTERFERE WITH AMBIENT LIGHT CONTROL. INSTALL A 3C#14 CABLE FROM THE LOAD CENTER TO THE CONDUIT BODY WHERE THE SPLICE TO THE PHOTOCELL RECEPTACLE CABLE SHALL BE MADE. IF PLANS CALL TO MOUNT PHOTOCELL AWAY FROM LOAD CENTER USE A 5C#14 CABLE FROM LOAD CENTER TO RECEPTACLE. PHOTOCELL MUST BE ENCLOSED IN A METALLIC ENCLOSURE.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H27	H38

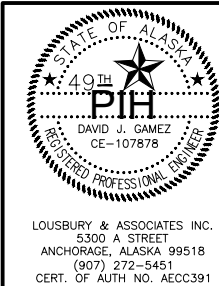


WIRING NOTES CONTINUED:

9. SEPARATE THE MAIN CIRCUIT BREAKER FROM THE DISTRIBUTION PANEL
10. INSTALL #6 AWG COPPER MAIN BONDING JUMPER, OR SIZE PER NEC TABLE 250.102 (C) (1), WHICHEVER IS LARGER.
11. INSTALLATION MUST COMPLY WITH NEC 250.24 (C) AND 250.24 (C) EXCEPTION WHEN MORE THAN ONE PANELBOARD IS PRESENT.
12. INSTALL #6 AWG COPPER GROUNDING ELECTRODE CONDUCTOR (GEC), OR SIZE PER NEC TABLE 250.66, WHICHEVER IS LARGER.
13. THE REINFORCING BARS WITHIN THE CONCRETE FOUNDATION MUST BE CONNECTED TOGETHER BY EFFECTIVE MEANS AND WILL BECOME PART OF THE GROUNDING ELECTRODE SYSTEM PER NEC 250.50 AND 250.52(A)(3). INSTALL AN IRREVERSIBLE COMPRESSION GROUNDING CONNECTOR, NRTL-LISTED FOR DIRECT BURIAL IN EARTH AND CONCRETE, TO CONNECT THE REINFORCING BARS TO THE GEC. INSTALL A COPPER GEC, SIZED PER NEC 250.66 BUT NOT SMALLER THAN #6 AWG, BETWEEN THE COMPRESSION CONNECTOR AND THE LOAD CENTER NEUTRAL.
14. INSTALL LABEL(S) ON ENCLOSURE EXTERIOR PER ARC FLASH AND SHOCK HAZARD LABELING DETAIL:
A. TO WARN OF THE POTENTIAL ARC FLASH HAZARD [PER NEC 110.16 AND NFPA 70E], AND
B. TO IDENTIFY THE AVAILABLE FAULT CURRENT [PER NEC 110.24(A)]
15. MAXIMUM METER HEIGHT SHALL NOT EXCEED 64" FROM FINISHED GRADE TO CENTER OF THE METER SOCKET COVER.
16. WHEN SHOWN ON THE PLANS, INSTALL ENCLOSURE HEATER WITH INTEGRAL THERMOSTAT, SET TO ENERGIZE THE HEATER AT TEMPERATURES AT OR BELOW 32-DEG F. SCHNEIDER ELECTRIC CAT. NO. NSYCRP1W230VTVC, NVENT-HOFFMAN CAT. NO. DAH4002B, OR APPROVED EQUAL.

LOAD CENTER ONE LINE DIAGRAM AND SELECTOR SWITCH WIRING

* GROUND NEUTRAL, IF SERVICE IS 240/480 VOLT SINGLE PHASE OR 277/480 VOLT THREE-PHASE; AND UNGROUND LINE, IF SERVICE IS 120/240 VOLT SINGLE PHASE.

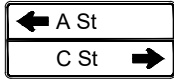
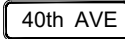
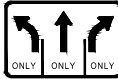
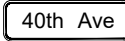
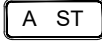


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION**

TYPE 1A LOAD CENTER

LOUSBURY & ASSOCIATES INC.
5300 A STREET
ANCHORAGE, ALASKA 99518
(907) 272-5451
CERT. OF AUTH NO. AECC391

												NO.	DATE	REVISION			STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
																	ALASKA	0527030/CFHWY00223	2020	H28	H38	

SIGN SUMMARY																	
SHEET NO.	POST NO.	STATION	OFFSET (FEET)	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA (SFT)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		SIGN CATEGORY			REMARKS
							WIDTH	HEIGHT				YES	NO	615.0001	615.0002	615.0006	
														NEW	RELOCATE	SALVAGE	
H14	1A	246+43	49.4 RT	A ST	R10-100		30	36	7.50	W			X	X		X	MOUNT ON MAST ARM
					R3-5R		30	36	7.50	W			X	X		X	MOUNT ON MAST ARM
					D3-102		59	51	20.90	W		X		X		X	MOUNT ON MAST ARM
					D3-100		28	8	1.56	N/S			X	X		X	MOUNT ON POLE
					R9-3		18	18	2.25	W			X	X		X	MOUNT ON POLE
					R10-101		9	12	0.75	E			X	X		X	MOUNT ON POLE
	1B	246+79	69.7 RT	A ST	R4-7		24	30	5.00	W	2.5 X 2.5 PT		X	X		X	
	1C	246+85	98.3 RT	A ST	R4-7		24	30	5.00	E	2.5 X 2.5 PT		X	X		X	
	1D	247+08	34.2 LT	A ST	R4-7		24	30	5.00	S	2.5 X 2.5 PT		X	X		X	
	1E	247+14	34.6 LT	A ST	R3-4		36	36	9.00	S		X		X		X	MOUNT ON MAST ARM
					R10-101		9	12	0.75	N			X	X		X	MOUNT ON POLE
	1F	247+31	66.3 RT	A ST	R3-8L/S/R		48	30	10.00	E	3 X 3 TS	X		X		X	
	1G	247+41	51.9 RT	A ST	D3-1B		61	18	7.63	S		X		X		X	MOUNT ON MAST ARM
D3-100						28	8	1.56	E/W			X	X		X	MOUNT ON POLE	
R10-101						9	12	0.75	W			X	X		X	MOUNT ON POLE	
R10-101						9	12	0.75	S			X	X		X	MOUNT ON POLE	
SHEET TOTAL									85.88				16	0	16		

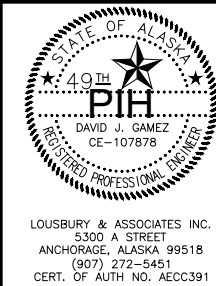
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LOUSBURY & ASSOCIATES INC.
5300 A STREET
ANCHORAGE, ALASKA 99518
(907) 272-5451
CERT. OF AUTH NO. AECC391



A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

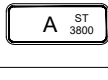
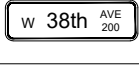
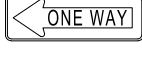


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

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																					ALASKA	0527030/CFHWY00223	2020	H29	H38

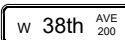
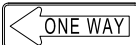
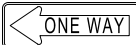
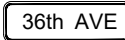
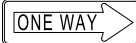
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							WIDTH	HEIGHT				YES	NO	615.0001 NEW	615.0002 RELOCATE	615.0006 SALVAGE		
H14	1H	247+31	49.1 LT	A ST	R3-7L		36	36	9.00	N	3 X 3 TS	X		X		X		
	1I	248+17	41.7 RT	A ST	R3-17		30	24	5.00	S	2.5 X 2.5 PT		X	X		X		
	1J	248+63	42.6 RT	A ST	R7-107A		12	30	2.50	S	2 X 2 PT		X	X		X		
	1K	252+08	38.6 RT	A ST	W11-1		36	36	9.00	SW	3 X 3 TS	X		X		X		
					W16-1P		24	30	5.00	SW			X	X		X		
	1L	253+36	33.5 LT	A ST	R3-7L		36	36	9.00	SW		X		X		X	MOUNT ON POLE	
					R9-3		18	18	2.25	SE			X	X		X	MOUNT ON POLE	
	1M	253+41	44.9 RT	A ST	R9-3		18	18	2.25	NW			X	X		X	MOUNT ON POLE	
	1N	253+49	47.5 LT	A ST	D3-101		20	8	1.11	NW/SE	2.5" P		X	X		X	MOUNT TWO SIGNS BACK TO BACK	
					D3-101		47	12	3.92	NE/SW		X		X		X	MOUNT TWO SIGNS BACK TO BACK	
					R6-1(L)		36	12	3.00	NW		X		X		X	MOUNT BACK TO BACK WITH R6-1(R)	
					R6-1(R)		36	12	3.00	SE		X		X		X	MOUNT BACK TO BACK WITH R6-1(L)	
					R1-1		30	30	6.25	NW			X	X		X		
	1O	253+80	43.4 RT	A ST	R3-5L		30	36	7.50	NW	2.5" P		X	X		X		
	1P	253+87	43.4 RT	A ST	R3-1		36	36	9.00	NW	3 X 3 TS	X		X		X		
					R3-2		36	36	9.00	SE		X		X		X		
SHEET TOTAL									86.78					16	0	16		



LOUSBURY & ASSOCIATES INC.
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A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

												NO.	DATE	REVISION		STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
																ALASKA	0527030/CFHWY00223		2020	H30	H38
SIGN SUMMARY																					
SHEET NO.	POST NO.	STATION	OFFSET (FEET)	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA (SFT)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		SIGN CATEGORY			REMARKS				
							WIDTH	HEIGHT				YES	NO	615.0001 NEW	615.0002 RELOCATE	615.0006 SALVAGE					
H14	1Q	254+11	36.8 LT	A ST	R3-5R		30	36	7.50	SE			X	X		X	MOUNT ON POLE				
	1R	254+33	57.0 RT	A ST	D3-101		20	8	1.11	NW/SE			X	X		X	MOUNT TWO SIGNS BACK TO BACK				
					D3-101		47	12	3.92	NE/SW		X		X		X	MOUNT TWO SIGNS BACK TO BACK				
					R6-1(L)		36	12	3.00	NW	2.5" P	X		X		X	MOUNT BACK TO BACK WITH R6-1(R)				
					R6-1(R)		36	12	3.00	SE		X		X		X	MOUNT BACK TO BACK WITH R6-1(L)				
					R1-1		30	30	6.25	SE			X	X		X					
H15	2A	255+83	47.5 RT	A ST	R7-107A		12	30	2.50	SW			X	X		X	MOUNT ON POLE				
					R4-4		36	30	7.50	SW		X		X		X	MOUNT ON POLE				
	2B	257+00	46.3 LT	A ST	R1-1		30	30	6.25	W	2.5" P		X	X		X					
	2C	257+27	47.2 RT	A ST	R6-1(L)		36	12	3.00	W		X		X		X	MOUNT ON POLE				
	2D	258+16	41.5 RT	A ST	D3-100		53	18	6.63	S	2.5" P	X		X		X					
	2E	258+48	42.6 LT	A ST	R3-7L		36	36	9.00	S	3 X 3 TS	X		X		X					
	2F	260+53	40.7 RT	A ST	R3-7R		36	36	9.00	S	3 X 3 TS	X		X		X					
	2G	260+54	47.2 LT	A ST	R3-7L		36	36	9.00	S	3 X 3 TS	X		X		X					
	2H	260+64	50.5 LT	A ST	R6-1(R)		36	12	3.00	W		X		X		X	MOUNT BACK TO BACK WITH R6-1(L) AND ON POLE				
					R6-1(L)		36	12	3.00	E		X		X		X	MOUNT BACK TO BACK WITH R6-1(R) AND ON POLE				
SHEET TOTAL									83.65					16	0	16					

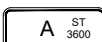
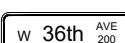
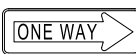
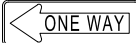
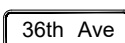


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A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

												NO.	DATE	REVISION		STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
																ALASKA	0527030/CFHWY00223		2020	H31	H38

SIGN SUMMARY																	
SHEET NO.	POST NO.	STATION	OFFSET (FEET)	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA (SFT)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		SIGN CATEGORY			REMARKS
							WIDTH	HEIGHT				YES	NO	615.0001	615.0002	615.0006	
														NEW	RELOCATE	SALVAGE	
H15	2H	260+64	50.5 LT	A ST	R10-101		9	12	0.75	N			X	X		X	MOUNT ON POLE
					R10-101		9	12	0.75	E			X	X		X	MOUNT ON POLE
	2I	261+62	39.7 LT	A ST	R6-2(R)		24	30	5.00	E			X	X		X	MOUNT ON MAST ARM
					D3-1B		32	18	4.00	E			X	X		X	MOUNT ON MAST ARM
					R3-5R		30	36	7.50	E			X	X		X	MOUNT ON MAST ARM
					D3-101		29	8	1.61	N/S			X	X		X	MOUNT ON POLE
					R10-101		9	12	0.75	E			X	X		X	MOUNT ON POLE
					R10-101		9	12	0.75	S			X	X		X	MOUNT ON POLE
	2J	261+62	39.7 LT	A ST	R3-5L		30	36	7.50	S			X	X		X	MOUNT ON MAST ARM
					D3-101		19	8	1.06	E/W			X	X		X	MOUNT ON POLE
	2K	261+72	52.4 RT	A ST	R6-1(R)		54	18	6.75	E	2.5" P	X		X		X	MOUNT BACK TO BACK WITH R6-1(L)
					R6-1(L)		36	12	3.00	W		X		X		X	MOUNT BACK TO BACK WITH R6-1(R)
					D11-1		30	24	5.00	E			X	X		X	
					M6-4		12	9	0.75	E			X	X		X	
	2L	261+94	34.3 RT	A ST	D3-1B		60	18	7.50	S		X		X		X	MOUNT ON MAST ARM
					R3-5R		30	36	7.50	S			X	X		X	MOUNT ON MAST ARM
SHEET TOTAL									60.17				16	0	16		

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LAYOUT

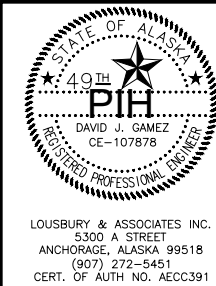


LOUSBURY & ASSOCIATES INC.
5300 A STREET
ANCHORAGE, ALASKA 99518
(907) 272-5451
CERT. OF AUTH NO. AECC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

FILE D:\PWSE\FILE\DM501275

DATE/TIME 6/15/2020 1:15 PM

LAYOUT

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												NO.	DATE	REVISION		STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS		
																ALASKA	0527030/CFHWY00223		2020	H32	H38		
												SIGN SUMMARY											
SHEET NO.	POST NO.	STATION	OFFSET (FEET)	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA (SFT)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		SIGN CATEGORY			REMARKS						
							WIDTH	HEIGHT				YES	NO	615.0001 NEW	615.0002 RELOCATE	615.0006 SALVAGE							
H15	2L	261+94	34.3 RT	A ST	D3-101		19	8	1.06	E/W			X	X		X	MOUNT ON POLE						
					R10-101		9	12	0.75	E			X	X		X	MOUNT ON POLE						
					R10-101		9	12	0.75	S			X	X		X	MOUNT ON POLE						
	2M	262+10	35.5 RT	A ST	D11-1		30	24	5.00	S	2.5 X 2.5 PT		X	X		X							
	2N	262+25	28.9 RT	A ST	R3-17		30	24	5.00	S	2.5 X 2.5 PT		X	X		X							
	2O	264+05	51.6 RT	A ST	R6-1(L)		36	12	3.00	W	2.5" P	X		X		X							
					R1-1		30	30	6.25	W			X	X		X							
	2P	263+49	33.6 LT	A ST	R7-107A		12	30	2.50	W			X	X		X	MOUNT ON POLE						
	2Q	264+66	38.0 RT	A ST	D14-100		30	24	5.00	S			X	X		X	MOUNT ON POLE						
D14-100						30	12	2.50	S			X	X		X	MOUNT ON POLE							
H16	3A	265+32	33.2 RT	A ST	R3-17		30	24	5.00	S			X	X		X							
	3B	266+13	38.9 LT	A ST	D3-101		30	12	2.50	E/W	2.5" P		X	X		X	MOUNT TWO SIGNS BACK TO BACK						
					D3-101		39	12	3.25	N/S		X		X		X	MOUNT TWO SIGNS BACK TO BACK						
					R6-1(L)		36	12	3.00	W		X		X		X	MOUNT BACK TO BACK WITH R6-1(R)						
					R6-1(R)		36	12	3.00	E		X		X		X	MOUNT BACK TO BACK WITH R6-1(L)						
SHEET TOTAL									48.56					15	0	15							

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

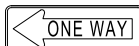
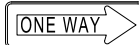
DAVID J. GAMEZ
CE-107878
REGISTERED PROFESSIONAL ENGINEER

LOUSBURY & ASSOCIATES INC.
5300 A STREET
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CERT. OF AUTH NO. AECC391

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

												NO.	DATE	REVISION			STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
																	ALASKA	0527030/CFHWY00223		2020	H33	H38

SIGN SUMMARY																	
SHEET NO.	POST NO.	STATION	OFFSET (FEET)	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA (SFT)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		SIGN CATEGORY			REMARKS
							WIDTH	HEIGHT				YES	NO	615.0001 NEW	615.0002 RELOCATE	615.0006 SALVAGE	
H16	3B	266+13	38.9 LT	A ST	R1-1		30	30	6.25	W	2.5" P		X	X		X	
	3C	266+62	49.1 RT	A ST	D3-101		30	12	2.50	E/W	2.5" P		X	X		X	MOUNT TWO SIGNS BACK TO BACK
					R6-1(L)		36	12	3.00	W		X		X		X	MOUNT BACK TO BACK WITH R6-1(R)
					R6-1(R)		36	12	3.00	E		X		X		X	MOUNT BACK TO BACK WITH R6-1(L)
					R1-1		30	30	6.25	E			X	X		X	
	3D	267+22	34.5 RT	A ST	R3-17		30	24	5.00	S	2.5 X 2.5 PT		X	X		X	
	3E	267+51	32.6 LT	A ST	R2-1		30	36	7.50	S	2.5" P		X	X		X	
	3F	270+04	28.8 RT	A ST	R4-4		36	30	7.50	S	2.5" P	X		X		X	
	3G	270+30	36.0 RT	A ST	R7-107A		12	30	2.50	S			X	X		X	MOUNT ON POLE
	3H	271+70	42.6 RT	A ST	R3-7R		36	36	9.00	S		X		X		X	MOUNT ON POLE
	3I	273+14	43.0 RT	A ST	R3-7R		24	30	5.00	S			X	X		X	MOUNT ON POLE
	3J	273+78	60.4 RT	A ST	R6-2(L)		30	36	7.50	W			X	X		X	MOUNT ON MAST ARM
					R10-12		30	36	7.50	W			X	X		X	MOUNT ON MAST ARM
					D3-1B		32	18	4.00	W			X	X		X	MOUNT ON MAST ARM
					R10-101		9	12	0.75	N			X	X		X	MOUNT ON POLE
SHEET TOTAL									77.25					15	0	15	

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LAYOUT



LOUSBURY & ASSOCIATES INC.
5300 A STREET
ANCHORAGE, ALASKA 99518
(907) 272-5451
CERT. OF AUTH NO. AECC391

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
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SIGN SUMMARY

LOUSBURY & ASSOCIATES INC.
5300 A STREET
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												NO.	DATE	REVISION			STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
																	ALASKA	0527030/CFHWY00223	2020	H34	H38	

SIGN SUMMARY																	
SHEET NO.	POST NO.	STATION	OFFSET (FEET)	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA (SFT)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		SIGN CATEGORY			REMARKS
							WIDTH	HEIGHT				YES	NO	615.0001	615.0002	615.0006	
														NEW	RELOCATE	SALVAGE	
H16	3J	273+78	60.4 RT	A ST	R10-101		9	12	0.75	W			X	X		X	MOUNT ON POLE
	3K	273+78	39.8 LT	A ST	R10-101		9	12	0.75	N			X	X		X	MOUNT ON POLE
					R10-101		9	12	0.75	E			X	X		X	MOUNT ON POLE
	3L	273+83	34.3 LT	A ST	D3-101		20	8	1.11	E/W			X	X		X	MOUNT TWO SIGNS BACK TO BACK
					D3-101		27	8	1.50	N/S			X	X		X	MOUNT TWO SIGNS BACK TO BACK
					R6-1(L)		36	12	3.00	W	X		X		X	MOUNT BACK TO BACK WITH R6-1(R)	
					R6-1(R)		36	12	3.00	E	X		X		X	MOUNT BACK TO BACK WITH R6-1(L)	
	3M	274+40	40.0 LT	A ST	R6-2L		30	36	7.50	E			X	X		X	MOUNT ON MAST ARM
					R3-5R		30	36	7.50	E			X	X		X	MOUNT ON MAST ARM
					D3-1B		32	18	4.00	E			X	X		X	MOUNT ON MAST ARM
					D3-101		28	8	1.56	N/S			X	X		X	MOUNT ON POLE
					R10-101		9	12	0.75	E			X	X		X	MOUNT ON POLE
					R10-101		9	12	0.75	S			X	X		X	MOUNT ON POLE
	3N	274+42	74.5 RT	A ST	R6-1(L)		36	12	3.00	W		X		X		X	MOUNT BACK TO BACK WITH R6-1(R)
					R6-1(R)		36	12	3.00	E		X		X		X	MOUNT BACK TO BACK WITH R6-1(L)
	3O	274+60	35.5 RT	A ST	D3-1B		61	18	7.63	S			X		X		X
SHEET TOTAL									46.54					16	0	16	

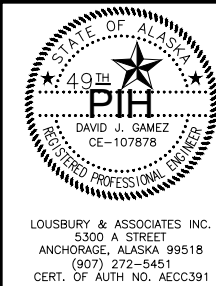
LOUSBURY & ASSOCIATES INC.
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STATE OF ALASKA
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A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

												NO.	DATE	REVISION		STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
																ALASKA	0527030/CFHWY00223		2020	H35	H38



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

LOUSBURY & ASSOCIATES INC.
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ANCHORAGE, ALASKA 99518
(907) 272-5451
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												NO.	DATE	REVISION		STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
																ALASKA	0527030/CFHWY00223		2020	H36	H38

STATE OF ALASKA

49th

PIE

DAVID J. GAMEZ

CE-107878

REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

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DATE/TIME 6/15/2020 1:15 PM

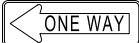
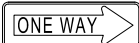
LAYOUT

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0527030/CFHWY00223	2020	H37	H38

SIGN SUMMARY																	
SHEET NO.	POST NO.	STATION	OFFSET (FEET)	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA (SFT)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		SIGN CATEGORY			REMARKS
							WIDTH	HEIGHT				YES	NO	615.0001 NEW	615.0002 RELOCATE	615.0006 SALVAGE	
H17	4J	284+01	60.6 LT	A ST	R10-101		9	12	0.75	E			X	X		X	MOUNT ON POLE
	4K	284+11	45.1 LT	A ST	R10-101		9	12	0.75	S			X	X		X	MOUNT ON POLE
	4L	284+98	47.2 RT	A ST	R3-7R		36	36	9.00	S		X		X		X	MOUNT ON POLE
H18	5A	285+86	49.9 RT	A ST	D3-100		18	8	1.00	E/W	2.5" P		X	X		X	MOUNT TWO SIGNS BACK TO BACK
					R6-1(L)		36	12	3.00	W		X		X		X	MOUNT BACK TO BACK WITH R6-1(R)
					R6-1(R)		36	12	3.00	E		X		X		X	MOUNT BACK TO BACK WITH R6-1(L)
					R1-1		30	30	6.25	E			X	X		X	
					R3-1		36	36	9.00	E		X		X		X	
	5B	285+91	33.4 RT	A ST	R3-16A		24	30	5.00	S	2.5" P		X	X		X	
	5C	287+02	49.8 LT	A ST	RL/SL/S		45	30	9.38	S	3 X 3 TS	X		X		X	
	5D	287+13	58.7 LT	A ST	D3-100		19	8	1.06	E/W			X		X		MOUNT ON POLE/RELOCATE EXISTING SIGN
					R6-2R		36	12	3.00	E		X			X		MOUNT ON POLE/RELOCATE EXISTING SIGN
					R10-101		9	12	0.75	N			X	X		X	MOUNT ON POLE
					R10-101		9	12	0.75	E			X	X		X	MOUNT ON POLE
	5F	287+88	53.7 LT	A ST	R3-5R		30	36	7.50	E			X		X		MOUNT ON MASS ARM/RELOCATE EXISTING SIGN
					D3-100		32	18	4.00	E			X		X		MOUNT ON MASS ARM/RELOCATE EXISTING SIGN
SHEET TOTAL									48.63					12	4	12	

STATE OF ALASKA

49TH

PIH

DAVID J. GAMEZ

CE-107878

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LOUSBURY & ASSOCIATES INC.
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

A STREET: NORTHERN LIGHTS
BLVD TO 40TH AVE PAVEMENT
PRESERVATION

SIGN SUMMARY

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DATE/TIME6/15/2020 1:15 PM

LAYOUT

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												NO.	DATE	REVISION		STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
																ALASKA	0527030/CFHWY00223		2020	H38	H38
												SIGN SUMMARY									
SHEET NO.	POST NO.	STATION	OFFSET (FEET)	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA (SFT)	SIGN FACES	POSTS NO, SIZE & TYPE	FRAMED		SIGN CATEGORY			REMARKS				
							WIDTH	HEIGHT				YES	NO	615.0001 NEW	615.0002 RELOCATE	615.0006 SALVAGE					
H18	5F	287+88	53.7 LT	A ST	D3-100	Northern Lights BLVD	60	8	3.33	N/S		X			X		MOUNT ON POLE/RELOCATE EXISTING SIGN				
					R6-1(L)	ONE WAY	9	12	0.75	S			X		X		MOUNT ON POLE/RELOCATE EXISTING SIGN				
					R10-101		9	12	0.75	E			X	X		X	MOUNT ON POLE				
					R10-101		9	12	0.75	S			X	X		X	MOUNT ON POLE				
	5H	288+23	34.9 RT	A ST	R6-2L	ONE WAY	24	30	5.00	S			X		X		MOUNT ON MASS ARM/RELOCATE EXISTING SIGN				
					D3-100	Northern Lights BLVD	117	18	14.63	S		X			X		MOUNT ON MASS ARM/RELOCATE EXISTING SIGN				
					D3-100	A ST	19	8	1.06	E/W			X		X		MOUNT ON POLE/RELOCATE EXISTING SIGN				
					R10-101		9	12	0.75	S			X	X		X	MOUNT ON POLE				
					R10-101		9	12	0.75	W			X	X		X	MOUNT ON POLE				
	5G	288+02	56.3 RT	A ST	R-8S/SR/R		45	30	9.38	E	3 X 3 TS	X		X		X					
					R6-1(R)	ONE WAY	9	12	0.75	E			X		X		RELOCATE EXISTING SIGN				
	5E	287+21	38.6 RT	A ST	R6-1(L)	ONE WAY	36	12	3.00	S		X		X		X	MOUNT ON POLE				
					R10-101		9	12	0.75	N			X	X		X	MOUNT ON POLE				
					R10-101		9	12	0.75	W			X	X		X	MOUNT ON POLE				
	SHEET TOTAL									18.13					8	6	8				
PROJECT TOTAL									662.31					161	10	161					

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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49TH
PIH

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