NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)	2017	A1	140
CDS ROUTE: 291400		MP 1.985 TO MP 2.60		

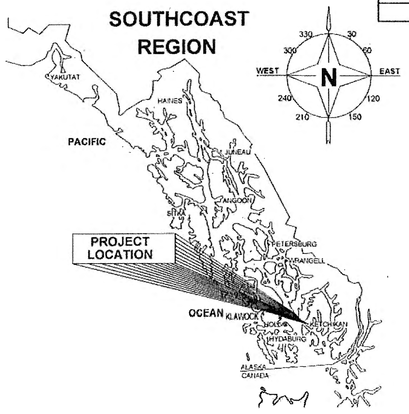
STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

KTN: FRONT, MILL, AND STEDMAN STREETS RECONSTRUCTION PROJECT NO. NH-0902(038)/Z681600000 FINAL PS&E

GRADING, DRAINAGE, PAVING, SIDEWALKS, SIGNING, STRIPING, AND BRIDGE REPAIRS



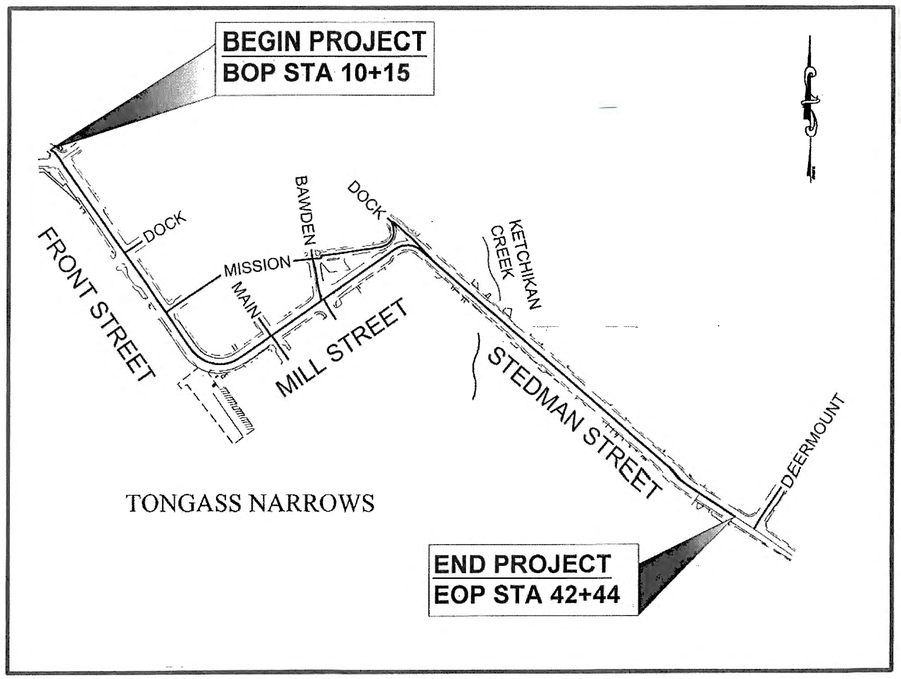
January 3, 2018

The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.

Cody Sabo

PROJECT SUMMARY	
LENGTH OF PROJECT	3,229 FT
LENGTH OF BRIDGE 724	125 FT
LENGTH OF BRIDGE 1080	247 FT
LENGTH OF BRIDGE 1081	357 FT
LENGTH OF PAVING	3,229 FT
WIDTH OF PAVING	39–44 FT (VARIES)

DESIGN DESIGNATIONS	
PROJECT TYPE	REHABILITATION (3R)
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL
PRESENT ADT (2013)	9,840
DESIGN YEAR ADT (2036)	11,040
MID DESIGN YEAR ADT (2026)	10,500
DHV (10.6%) 2036	1,170
PERCENT COMMERCIAL TRUCKS	7.7%
PAVEMENT DESIGN YEAR	2026
DESIGN VEHICLE: MAIN LINE	WB–50
DESIGN VEHICLE: TURNING	SU–30
DESIGN VEHICLE: LOADING BRIDGE NO. 724	H20
DESIGN VEHICLE: LOADING BRIDGE NO. 1080 AND 1081	HS20
DESIGN V	30 MPH
DIRECTION DISTRIBUTION	55 / 45
V	20 MPH
E.A.L.	3,350,000



VICINITY MAP

AS-BUILTS
CONTRACTOR: SECON
PROJECT ENGINEER: MANDI PELHAM, EMILY DELANEY
START: FEBRUARY 21, 2018
END: OCTOBER 1, 2019

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By Emily Delaney Date 1/27/20

USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2015 EDITION AND THE PROJECT SPECIAL PROVISIONS

PLANS PREPARED BY: R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
VOICE: 907 522-1707
FAX: 907 522 3404
WEB: WWW.RMCONSULT.COM
CERT. OF AUTH. NO. AECC111

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

APPROVED:
REGIONAL PRECONSTRUCTION ENGINEER
L. PAT CARROLL, P.E.
DATE 8-18-17

CONCUR:
REGIONAL DIRECTOR
MICHAEL J. COFFEY
DATE 8-

FOR!

DRAFTED | DESIGNED | CHECKED | LAYOUT A1 | DATE 6/14/2017 14:11 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900_03-A01 Title Sheet.dwg

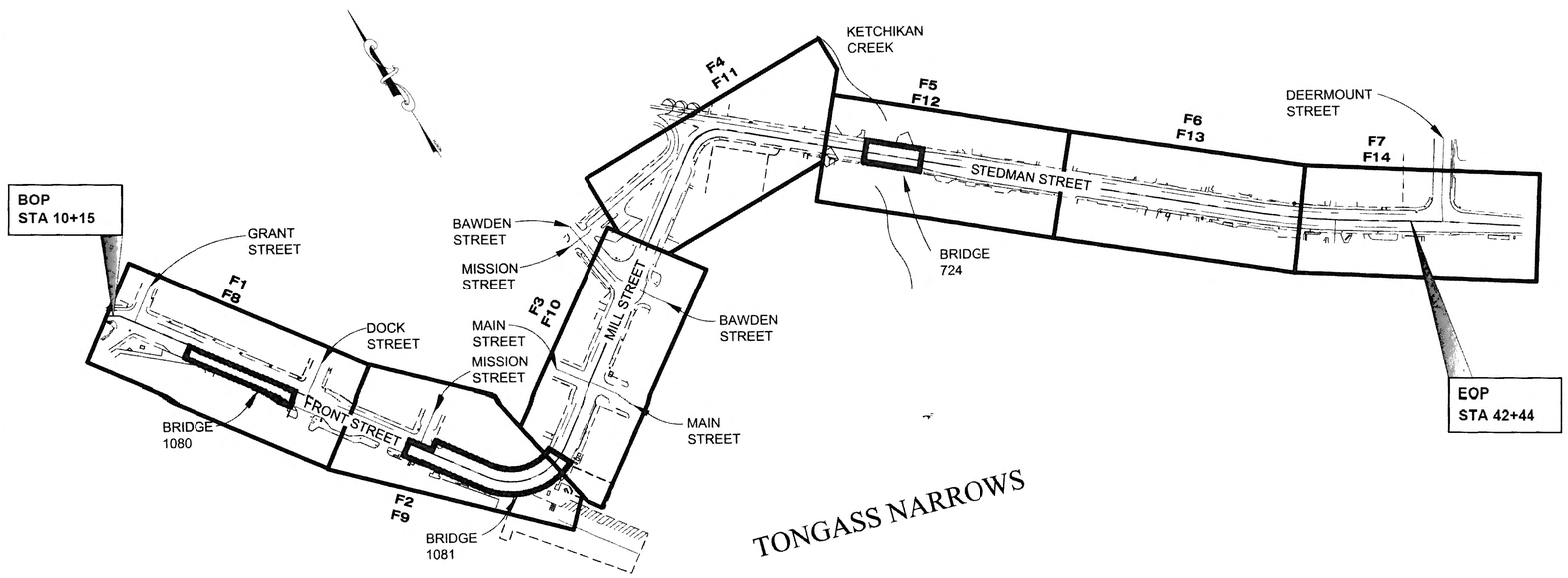
OVERVIEW

1. ALL CONSTRUCTION OPERATIONS REQUIRED FOR THIS PROJECT SHALL REMAIN WITHIN EXISTING RIGHTS-OF-WAY AND EASEMENTS, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER AND THE AFFECTED PROPERTY OWNER.
2. THE DESIGN SURVEY WAS PERFORMED FROM NOVEMBER 2012 TO DECEMBER 2012 AND DURING SEPTEMBER 2016 TO ESTABLISH THE EXISTING GROUND AND TOPOGRAPHIC FEATURES. FIELD CONDITIONS MAY HAVE CHANGED THAT ARE NOT REPRESENTED IN THIS PLANSET.
3. CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH AS-BUILT PLANS, INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD, CONTRACTOR SHALL RECORD ALL DEVIATIONS FROM THE PLANS.
4. WHEN PAVING ADJACENT TO CURB LINE, THE CONTRACTOR SHALL ENSURE THAT THE ASPHALT SURFACE BE 1/8"-1/4" HIGHER THAN THE LIP OF THE GUTTER PAN.
5. THE CONCRETE SLAB ON GRADE ALONG FRONT STREET FROM GRANT STREET (STA 10+60) TO MISSION STREET (STA 17+10) VARIES IN WIDTH AND THE PRESENCE OF REINFORCING STEEL. A TYPCAL REBAR MAT (COMPRISED OF NO. 5 AND NO. 4 BARS) IS PRESENT LEFT OF BRIDGE 1080 AND AT THE DOCK AND MISSION STREET INTERSECTIONS. BETWEEN STA 15+00 AND STA 16+70, THE CONCRETE SLAB IS REINFORCED WITH WELDED WIRE FABRIC. OVER TIME, NUMEROUS UTILITY IMPROVEMENTS AND ROADWAY REPAIRS HAVE OCCURRED AND DOWEL OR TIE BARS MAY HAVE BEEN INSTALLED IN THE CONCRETE SLAB.
6. USE ADA COMPLIANT GRATES FOR CURB INLETS LOCATED AT CURB RAMPS.
7. ALL STORM DRAIN STRUCTURES REQUIRE AN 18" SUMP EXCEPT FOR STORM DRAIN STRUCTURE, TYPE 20.

EXISTING UTILITIES:

1. THE NUMBER AND LOCATIONS DEPICTED FOR THE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE. SOME UTILITIES HAVE BEEN LOCATED FROM AS-BUILT DRAWINGS AND SOME FROM UTILITY COMPANY LOCATES, AND THEREFORE MAY NOT BE VISIBLE. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL UTILITIES AND PERFORMING ANY NECESSARY VERIFICATION PRIOR TO CONSTRUCTION.
2. ALL WORK IN CLOSE PROXIMITY TO EXISTING UNDERGROUND ELECTRICAL AND TELECOMMUNICATION LINES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY. HAND DIGGING IS REQUIRED WITHIN TWO FEET OF BURIED ELECTRICAL UTILITIES.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	A2	140



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT AND GENERAL NOTES
A3	LEGEND / SYMBOLS
A4–A7	SURVEY CONTROL SHEETS
B1–B5	TYPICAL SECTIONS
C1–C2	ESTIMATE OF QUANTITIES
D1–D13	SUMMARY TABLES
E1–E16	DETAILS
F1–F7	DEMOLITION PLANS
F8–F14	PLAN & PROFILE
G1–G28	SIDEWALK AND CURB IMPROVEMENTS
G29–G32	SIDE STREET & DRIVEWAY PROFILES
H1–H5	SIGNING & STRIPING
N1–N5	BRIDGE PLANS: BRIDGE 1080
N6–N12	BRIDGE PLANS: BRIDGE 1081
N13–N18	BRIDGE PLANS: BRIDGE 724
P1–P5	EROSION & SEDIMENT CONTROL PLANS
S1–S3	CONSTRUCTION PHASING AND TRAFFIC CONTROL SHEET REFERENCE
T1–T17	TRAFFIC CONTROL PLANS
U1–U3	UTILITY WATER PLANS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

D-20.04	*I-20.20	S-05.01	T-23.00
D-22.01	I-21.10	*S-20.10	
D-23.01	I-22.10	S-23.00	
**D-24.00	M-13.01	S-30.04	
D-25.00	M-16.01	T-20.03	
D-26.03	S-00.11	T-21.03	
D-35.00	S-01.01	T-22.03	

* AS MODIFIED HEREIN (E2, E16)
** USE ADA COMPLIANT GRATES AT CURB RAMPS

ABBREVIATIONS

Δ	DELTA ANGLE
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ADA	AMERICANS WITH DISABILITIES ACT OF 1990
ADT	AVERAGE DAILY TRAFFIC
ATB	ASPHALT TREATED BASE
BOP	BEGINNING OF PROJECT
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CF	CUBIC FOOT
CI	CAST IRON
℄, CL	CENTERLINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CPEP	CORRUGATED POLYETHYLENE PIPE
CY	CUBIC YARD
D	DEGREE OF CURVATURE, DIAMETER
DHV	DESIGN HOURLY VOLUME
DIA,Ø	DIAMETER
DOT&PF	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DR	DIMENSION RATIO
DW	DRIVEWAY
DWG	DRAWING
DY	DOUBLE YELLOW
E	EAST, EASTING, ELECTRIC
EA	EACH
EAL	EQUIVALENT AXLE LOAD
EB	EASTBOUND
EG	EXISTING GROUND
EL, ELEV	ELEVATION
EOP	END OF PROJECT, EDGE OF PAVEMENT
ESCP	EROSION & SEDIMENT CONTROL PLAN
E/T	ELECTRIC/TELEPHONE
EX MH	EXISTING MANHOLE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FM	FORCE MAIN
FT	FEET, FOOT
GA	GAUGE
GAL	GALLON
GI	GUTTER INLET
HCFI	HIGH CAPACITY FIELD INLET
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
ID	INSIDE DIAMETER
IN	INCH
L	LENGTH
LB	POUND
LC	LOWER CASE
LP	LINER PIPE
LT	LEFT
MAX	MAXIMUM
MCI	MOUNTABLE CURB INLET
ME	MATCH EXISTING
MH	MANHOLE
MI	MILE
MIN	MINIMUM
MP	MILEPOST
N	NORTH, NORTHING
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OC	ON CENTER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE, PORTLAND CEMENT CONCRETE
PED	PEDESTRIAN
PG	PROFILE GRADE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
P.L.	PARKING LANE
POR	POINT OF ROTATION
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PST	PERFORATED STEEL TUBE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R/W	RIGHT-OF-WAY
R	RADIUS
RAM	RECYCLED ASPHALT MATERIAL
RD	ROOF DRAIN
RP	RADIUS POINT
RT	RIGHT
S	SOUTH
SC	SOLID COVER
SCH	SCHEDULE
SCI	STANDARD CURB INLET
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDR	STANDARD DIMENSION RATIO
SF	SQUARE FEET
SHLD	SHOULDER
SS	SANITARY SEWER, STAINLESS STEEL
SSHC	STANDARD SPECS FOR HIGHWAY CONSTRUCTION
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
SY	SQUARE YARD
T	TANGENT, TRUCKS, TELECOMMUNICATIONS
% T	PERCENT TRUCKS
T.I.	TOP INTAKE
T.L.	TRAFFIC LANE
TV	TELEVISION
TYP	TYPICAL
UC	UPPER CASE
V	DESIGN SPEED
VB	VALVE BOX
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST, WATER, WHITE
W/	WITH
WB	WESTBOUND
WS	WHITE SKIP
WWF	WELDED WIRE FABRIC

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: _____ Date: 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
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AECC111

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000
SHEET LAYOUT AND GENERAL NOTES

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-A02 Sheet Layout L DATE 08/01 No. Rev. By Description
DRAFTED CHECKED DESIGNED A2 LAYOUT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	A3	140

	RECOVERED	SET
BLM MONUMENT	✠	
GLO MONUMENT	✠	
USC&GS MONUMENT	▲	
PRIMARY MONUMENT	✠	✠
CENTERLINE MONUMENT IN CASING	⊕	⊕
PRIMARY R.O.W. MONUMENT	⊕	⊕
BEARING OBJECT	✳	
MISCELLANEOUS MONUMENT	⊗	
LINE OF SIGHT MONUMENT		⊕
CONCRETE R.O.W. MONUMENT		
BENCHMARK		✦
REBAR AND CAP	⊙	⊙
REBAR	⊕	●
IRON PIPE	●	
PK NAIL		▽
SPIKE		×
HUB AND TACK		⊡
CONSTRUCTION CENTERLINE	5+00	
MICELLANEOUS CENTERLINE	10+00	
STATION EQUATION	"L"48+97.23 POT BK= "O"48+97.23 PC AHD	
PROJECT RIGHT-OF-WAY LINE	R/W	
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE	C/A	
EXISTING EASEMENT LINE		
PROPOSED EASEMENT LINE		
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE	T. 2 N. / T. 1 N. — T.1 E. T.2 E.	
MEANDER LINE	M1 M2 M3	

	EXISTING	PROPOSED
UNDERGROUND CABLE TELEVISION LINE	—TV—	—TV—
UNDERGROUND ELECTRIC LINE	—E—	—E—
UNDERGROUND SANITARY SEWER LINE	—SS—	—SS—
UNDERGROUND STORM DRAIN	—SD—	—SD—
LINER PIPE		—LP—
UNDERGROUND TELEPHONE LINE	—T—	—T—
UNDERGROUND WATER LINE	—W—	—W—
METER, VALVE, FIRE HYDRANT	W	W
PROPOSED STORM DRAIN		S-10, S-12, P-12, P-10, P-11, S-11, SD, MH
FIBER OPTIC LINE	—FO—	
DIRECT BURIAL TELEPHONE CABLE	—T—	—T—
DIRECT BURIAL ELECTRIC CABLE	—E—	—E—
OVERHEAD ELECTRIC LINE	—OHE—	—OHE—
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT	T	T
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
STORM DRAIN MANHOLE OR STORM DRAIN STRUCTURE	SDMH	SDMH
SANITARY SEWER MANHOLE	SSMH	SSMH
SANITARY SEWER CLEAN OUT		
SPECIAL DITCH CENTERLINE		
HIGH TIDE LINE	HTL	HTL
CONTOUR – MAJOR	140	
CONTOUR – INTERMEDIATE	138	
TREE / BRUSH LINE		
BRIDGE BENT No. (TYP.)	B6	
BUILDING DESIGNATION (TYP.)	①	
DRAIN (FLOOR DRAIN)		
ELECTRIC METER	OEM	
TIMBER PILE		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE	--X---X---X---X--	X X
PIPE HAND RAIL		
SAWCUT		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX	MB	MB
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS	H	H = HOUSE, G = GARAGE, M = MERCHANT/STORE, B = BARN, S = SHED, P = PRIVY, SS = SERVICE STATION, W = WAREHOUSE
POST OR BOLLARD	POST	
WELL OR MONITORING WELL	W MW	
SEPTIC PIPE	S	
FUEL TANK FILL PIPE/VENT	F-VENT	
TEST HOLE	TH	
DECIDUOUS/CONIFER/BUSH		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		
TELEPHONE PEDESTAL		
WATER VALVE / KEYBOX		
DECK DRAIN	DD	DD
ROOF DRAIN / STORM DRAIN SERVICE		RD
FIRE HYDRANT		
GATE POST	GP	
GUTTER – UNDERGROUND	GU	
CROSSWALK LIGHTING		

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		5
JUNCTION BOX, TYPE II		6
JUNCTION BOX, TYPE III		3
SIGNAL FACE, VEHICULAR	42	42
SIGNAL FACE, BACKPLATE	42	42
SIGNAL FACE, LEFT TURN, BACKPLATE	43	43
SIGNAL FACE, PEDESTRIAN	80	80
LOOP DETECTOR	33	73
VIDEO DETECTOR	2	2
RADAR DETECTOR	4	4A
OPTICOM DETECTOR	1	1
PEDESTRIAN PUSH BUTTON	1	1
SIGNAL POST W/O MAST ARM		1
SIGNAL POLE W/MAST ARM		4
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		
RIGID METAL CONDUIT		
TELEPHONE MANHOLE		
POWER POLE / POWER POLE W/LIGHT		
RETAINING WALL		OR

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Gary Stelly Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
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STATE OF ALASKA 49TH — Lance W. DeBernardi, No. CE 9632, REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

LEGEND / SYMBOLS

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-A03 Legend and Symb DATE 6/14/2017 13:13 LAYOUT A3 DESIGNED CHECKED DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681600000	2017	A4	140

DESIGNED JPAPOI
CHECKED DJSNOVOV
DRAFTED JPAPOI

XREFS

SCALE

LAYOUT A4

DATE TIME 5/23/2017 11:05

DRAWING LOCATION
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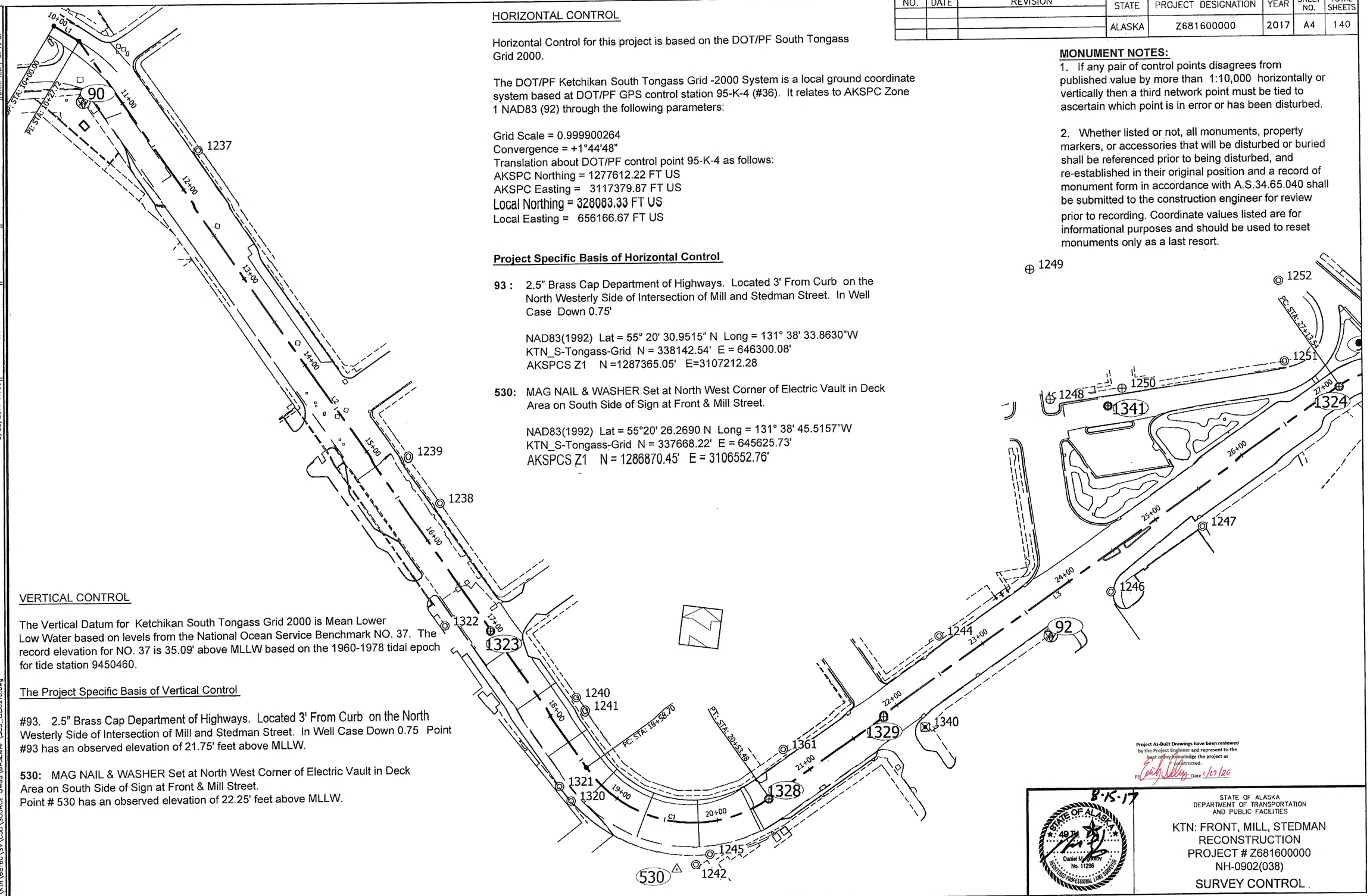


HORIZONTAL CONTROL

Horizontal Control for this project is based on the DOT/PF South Tongass Grid 2000.

The DOT/PF Ketchikan South Tongass Grid -2000 System is a local ground coordinate system based at DOT/PF GPS control station 95-K-4 (#36). It relates to AKSPC Zone 1 NAD83 (92) through the following parameters:

Grid Scale = 0.999900264
Convergence = +1°44'48"
Translation about DOT/PF control point 95-K-4 as follows:
AKSPC Northing = 1277612.22 FT US
AKSPC Easting = 3117379.87 FT US
Local Northing = 328083.33 FT US
Local Easting = 656166.67 FT US

Project Specific Basis of Horizontal Control

93 : 2.5" Brass Cap Department of Highways. Located 3' From Curb on the North Westerly Side of Intersection of Mill and Stedman Street. In Well Case Down 0.75'

NAD83(1992) Lat = 55° 20' 30.9515" N Long = 131° 38' 33.8630"W
KTN_S-Tongass-Grid N = 338142.54' E = 646300.08'
AKSPCS Z1 N =1287365.05' E=3107212.28

530: MAG NAIL & WASHER Set at North West Corner of Electric Vault in Deck Area on South Side of Sign at Front & Mill Street.

NAD83(1992) Lat = 55°20' 26.2690 N Long = 131° 38' 45.5157"W
KTN_S-Tongass-Grid N = 337668.22' E = 645625.73'
AKSPCS Z1 N = 1286870.45' E = 3106552.76'

VERTICAL CONTROL

The Vertical Datum for Ketchikan South Tongass Grid 2000 is Mean Lower Low Water based on levels from the National Ocean Service Benchmark NO. 37. The record elevation for NO. 37 is 35.09' above MLLW based on the 1960-1978 tidal epoch for tide station 9450460.

The Project Specific Basis of Vertical Control

#93. 2.5" Brass Cap Department of Highways. Located 3' From Curb on the North Westerly Side of Intersection of Mill and Stedman Street. In Well Case Down 0.75 Point #93 has an observed elevation of 21.75' feet above MLLW.

530: MAG NAIL & WASHER Set at North West Corner of Electric Vault in Deck Area on South Side of Sign at Front & Mill Street.
Point # 530 has an observed elevation of 22.25' feet above MLLW.

MONUMENT NOTES:

1. If any pair of control points disagrees from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

2. Whether listed or not, all monuments, property markers, or accessories that will be disturbed or buried shall be referenced prior to being disturbed, and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 shall be submitted to the construction engineer for review prior to recording. Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

8-15-17

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

KTN: FRONT, MILL, STEDMAN RECONSTRUCTION
PROJECT # Z681600000
NH-0902(038)

SURVEY CONTROL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681600000	2017	A5	140

DESIGNED A.PAPOI
DRAWN D.PAPOI
CHECKED
DRAFTED D.PAPOI

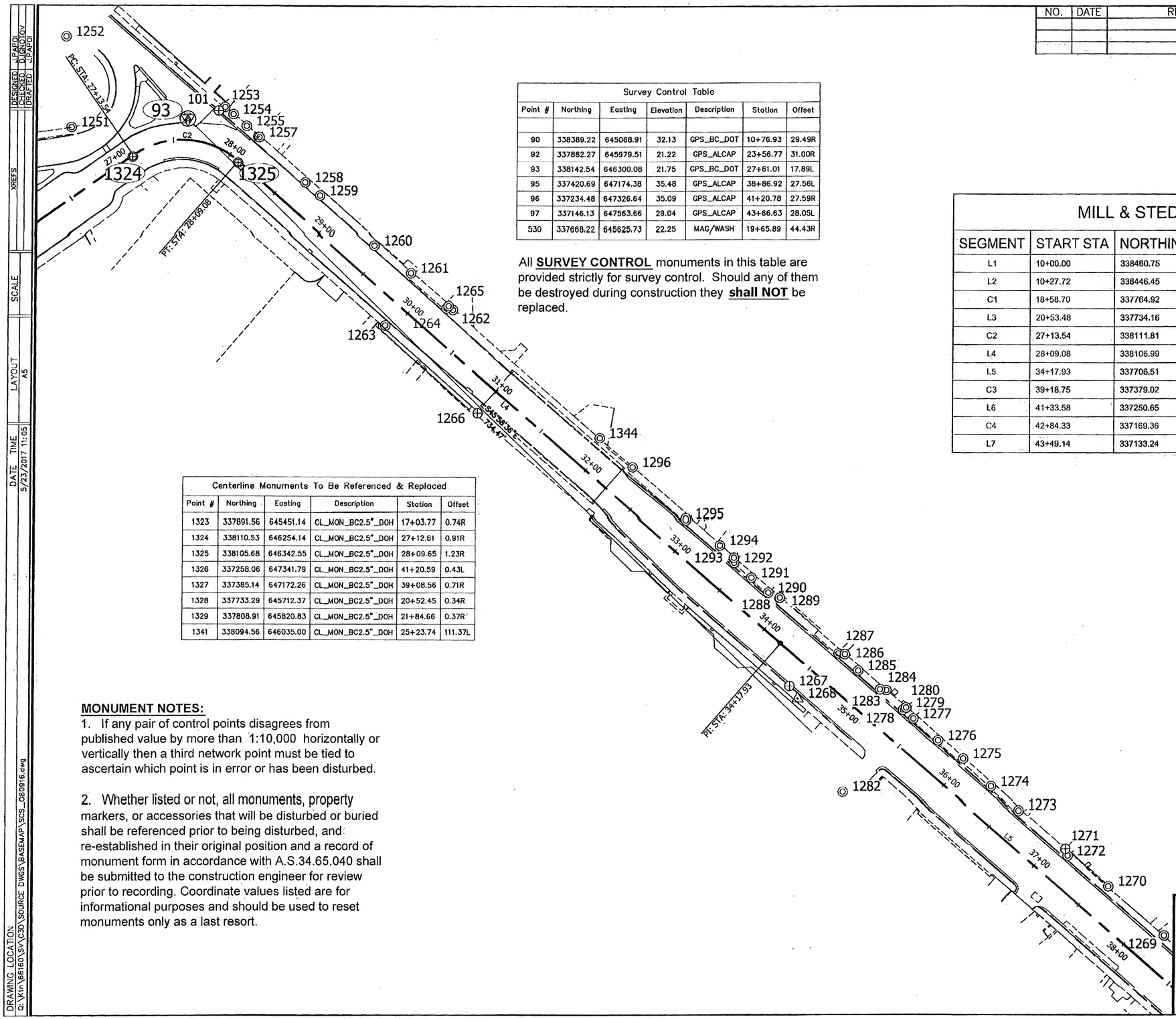
XREFS

SCALE

LAYOUT A5

DATE TIME 5/23/2017 11:05

DRAWING LOCATION C:\K+\661601\SVY\C3D\SOURCE DWGS\BASEMAP\SCS_080916.dwg



Survey Control Table						
Point #	Northing	Easting	Elevation	Description	Station	Offset
90	338389.22	645068.91	32.13	GPS_BC_DOT	10+76.93	29.49R
92	337882.27	645979.51	21.22	GPS_ALCAP	23+56.77	31.00R
93	338142.54	646300.08	21.75	GPS_BC_DOT	27+61.01	17.89L
95	337420.69	647174.38	35.48	GPS_ALCAP	38+86.92	27.56L
96	337234.48	647326.64	35.09	GPS_ALCAP	41+20.78	27.59R
97	337146.13	647563.66	29.04	GPS_ALCAP	43+66.63	28.05L
530	337668.22	645625.73	22.25	MAG/WASH	19+65.89	44.43R

All **SURVEY CONTROL** monuments in this table are provided strictly for survey control. Should any of them be destroyed during construction they **shall NOT** be replaced.

Centerline Monuments To Be Referenced & Replaced					
Point #	Northing	Easting	Description	Station	Offset
1323	337891.56	645451.14	CL_MON_BC2.5"_DOH	17+03.77	0.74R
1324	338110.53	646254.14	CL_MON_BC2.5"_DOH	27+12.61	0.91R
1325	338105.68	646342.55	CL_MON_BC2.5"_DOH	28+09.65	1.23R
1326	337258.06	647341.79	CL_MON_BC2.5"_DOH	41+20.59	0.43L
1327	337385.14	647172.26	CL_MON_BC2.5"_DOH	39+08.56	0.71R
1328	337733.29	645712.37	CL_MON_BC2.5"_DOH	20+52.45	0.34R
1329	337808.91	645820.83	CL_MON_BC2.5"_DOH	21+84.66	0.37R
1341	338094.56	646035.00	CL_MON_BC2.5"_DOH	25+23.74	111.37L

MONUMENT NOTES:

1. If any pair of control points disagrees from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

2. Whether listed or not, all monuments, property markers, or accessories that will be disturbed or buried shall be referenced prior to being disturbed, and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 shall be submitted to the construction engineer for review prior to recording. Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.

MILL & STEDMAN DESIGN ALIGNMENT							
SEGMENT	START STA	NORTHING	EASTING	END STA	RADIUS	LENGTH	DELTA
L1	10+00.00	338460.75	645041.20	10+27.72			
L2	10+27.72	338446.45	645064.94	18+58.70			
C1	18+58.70	337764.92	645540.39	20+53.48	124.00	194.78	90°00'00"
L3	20+53.48	337734.16	645713.03	27+13.54			
C2	27+13.54	338111.81	646254.38	28+09.08	72.00	95.54	76°01'48"
L4	28+09.08	338106.99	646342.93	34+17.93			
L5	34+17.93	337706.51	646801.53	39+18.75			
C3	39+18.75	337379.02	647180.44	41+33.58	1500.00	214.82	8°12'20"
L6	41+33.58	337250.65	647352.46	42+84.33			
C4	42+84.33	337169.36	647479.42	43+49.14	1500.00	64.81	2°28'32"
L7	43+49.14	337133.24	647533.23	44+76.76			

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
BY Emily Ishley Date 1/27/20

8-15-17

STATE OF ALASKA
49TH
Daniel L. Logsdon
No. 11296
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KTN: FRONT, MILL, STEDMAN
RECONSTRUCTION
PROJECT # Z681600000
NH-0902(038)

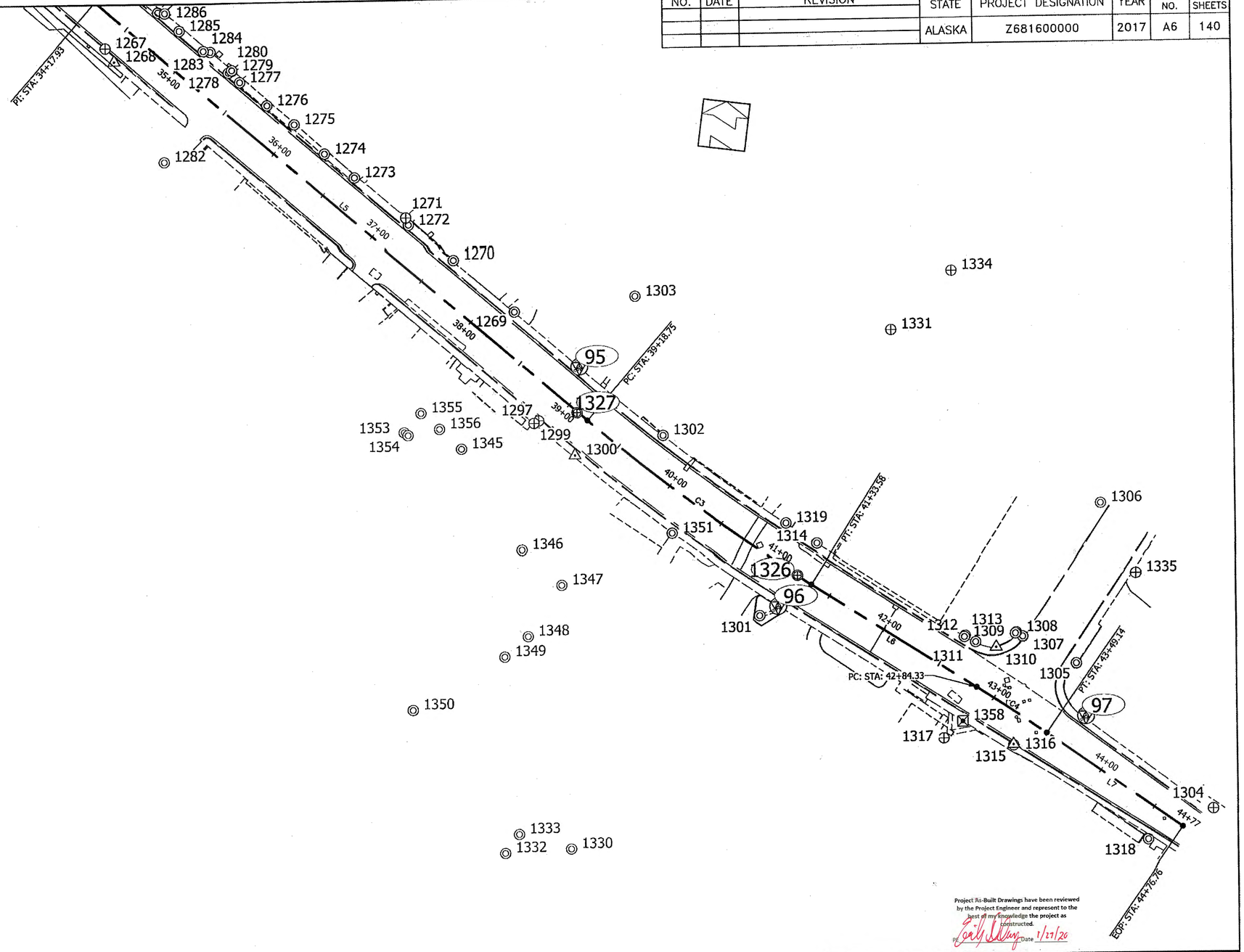
SURVEY CONTROL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681600000	2017	A6	140

MONUMENT NOTES:

1. If any pair of control points disagrees from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

2. Whether listed or not, all monuments, property markers, or accessories that will be disturbed or buried shall be referenced prior to being disturbed, and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 shall be submitted to the construction engineer for review prior to recording. Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Date 1/27/20

8-15-17

STATE OF ALASKA
49TH
Daniel M. Hodgson
No. 11296
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KTN: FRONT, MILL, STEDMAN
RECONSTRUCTION
PROJECT # Z681600000
NH-0902(038)

SURVEY CONTROL

DESIGNED J.PAPOL
CHECKED D.IGNOTOV
DRAFTED J.PAPOL
XREFS
SCALE
LAYOUT A6
DATE TIME 5/23/2017 11:05
DRAWING LOCATION Q:\Ktn\68160\SV\C3D\SOURCE DWGS\BASEMAP\SCS_080916.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z681600000	2017	A7	140

DESIGNED J.PAPO
CHECKED D.IGNATOV
DRAFTED J.PAPO

XREFS

SCALE

LAYOUT
A7

DATE TIME
5/23/2017 11:05

DRAWING LOCATION:
Q:\Kn\98160\SV\C3D\SOURCE DWGS\BASEMAP\SCS_080916.dwg

Existing Property					
Point #	Northing	Easting	Description	Station	Offset
101	338149.39	646326.06	BC_3.25"	27+79.40	29.32L
1237	338342.05	645177.42	NAIL_FND	11+77.70	32.52L
1238	338012.18	645403.91	ALCAP2"_LS3491_L5_ROW	15+77.83	29.54L
1239	338054.25	645374.63	ALCAP2"LS3491_L5A_ROW	15+26.57	29.60L
1240	337828.41	645531.13	IP1"	18+01.33	28.73L
1241	337816.52	645539.47	IP1"	18+15.86	28.77L
1242	337672.52	645643.53	ALCAP2"_LS7213_L9A-1_ROW	19+79.05	39.35R
1243	337572.70	645715.33	ALCAP2"_LS7213_L9A-1_ROW	20+11.61	149.17R
1244	337882.56	645873.84	ALCAP1.5"_LS6269	22+70.28	29.70L
1245	337682.04	645656.83	ALCAP2.5"_LS7213_L9A-1_ROW	19+89.80	30.53R
1246	337922.29	646036.40	ALCAP2"_LS7213_L10A1_ROW	24+26.33	30.72R
1247	337982.97	646123.63	ALCAP2"_LS3491_L10A1	25+32.59	30.86R
1248	338101.40	645980.76	ALCAP3.25"_LS4535_S431_S1990	24+83.17	148.02L
1249	338224.11	645962.27	ALCAP3.25"_S437_S1990	25+38.22	259.23L
1250	338111.30	646048.44	ALCAP3.25"_LS5453_S1990_L2B_BLK18	25+44.34	117.41L
1251	338135.26	646202.32	ALCAP1.5"_LS1273	26+84.26	49.02L
1252	338211.08	646197.32	PLASCAP	27+17.40	114.32L
1253	338152.33	646331.43	TACK_LEADPLUG	27+82.28	33.83L
1254	338146.33	646338.41	BC1"	27+88.31	30.92L
1255	338136.52	646349.72	BC1"	27+98.71	27.74L
1256	338127.34	646359.50	BC1"	28+08.41	26.23L
1257	338127.08	646360.59	BC1"	28+09.17	26.75L
1258	338089.23	646399.53	BC1"	28+63.39	23.85L
1259	338078.23	646412.19	BC1"	28+80.16	23.89L
1260	338038.19	646458.31	BC1"	29+41.24	24.07L
1261	338015.08	646489.41	ALCAP2"_LS3491_L7_L8A_ROW	29+79.86	27.12L
1262	337984.33	646524.93	ALCAP2"_LS3491_L8a_L9A_ROW	30+26.84	27.33L
1263	337971.29	646467.86	BC2.5"LS6269_WCC7_ATS1322	29+92.44	20.03R
1264	337985.61	646519.43	BC1"	30+21.86	24.67L
1265	337987.63	646521.28	TACK_LEADPLUG	30+21.92	27.41L
1266	337897.73	646546.39	BC3.25"_USACE	30+99.97	23.79R
1267	337670.79	646809.29	BC3.25"_COE_DP-3	34+47.16	21.95R
1268	337660.28	646816.11	MAG/WASH_LS7331	34+59.20	25.44R
1270	337504.87	647077.54	TACK_LEADPLUG	37+58.61	27.93L
1271	337536.18	647041.06	ALCAP3.25"_LS3248_S437_BLK28	37+10.53	27.76L
1272	337530.51	647043.03	BC1"	37+15.73	24.77L
1273	337567.89	647001.70	BC1"	36+60.02	26.02L
1274	337586.80	646978.56	BC1"	36+30.14	25.19L
1275	337609.92	646955.19	TACK	35+97.35	27.40L
1276	337625.02	646934.20	BC1"	35+71.59	25.10L
1277	337643.26	646913.29	BC1"	35+43.85	25.23L
1278	337650.74	646904.61	BC1"	35+32.38	25.22L
1279	337652.22	646907.38	BC1.5"_L9A_L9	35+33.51	28.14L
1280	337652.61	646907.18	TACK_LEADPLUG	35+33.11	28.31L
1282	337582.18	646854.35	BC2.5"C12_ATS1322_LS6269_Possible Destroyed	35+39.19	59.52R
1283	337667.12	646890.61	TACK_LEADPLUG	35+11.08	28.45L
1284	337667.84	646885.23	BC1"	35+06.54	25.47L
1285	337683.60	646866.76	BC1"	34+82.26	25.32L
1286	337697.23	646855.56	BC1.5"_L7C_L7B	34+64.88	28.31L
1287	337697.92	646850.28	BC1"	34+60.43	25.39L
1288	337744.50	646800.47	BC1"	33+92.14	27.92L
1289	337744.93	646800.80	TACK_LEADPLUG	33+92.11	28.46L
1290	337749.10	646791.15	BC1"	33+82.10	25.26L

Existing Property					
Point #	Northing	Easting	Description	Station	Offset
1291	337761.62	646776.98	BC1"	33+63.19	25.37L
1292	337774.15	646762.58	BC1"	33+44.10	25.33L
1293	337778.45	646762.16	TACK_LEADPLUG	33+40.95	28.29L
1294	337788.69	646750.40	TACK_LEADPLUG	33+25.37	28.27L
1295	337809.74	646721.60	BC1"	32+89.82	25.18L
1296	337852.42	646676.75	BC1.5"	32+27.97	27.83L
1297	337379.33	647142.53	BC3.25"_COE	38+89.87	24.56R
1299	337377.48	647138.83	BC3.25"_COE	38+88.28	28.38R
1300	337352.12	647170.35	MAG/WASH_LS7331	39+28.54	26.98R
1301	337227.32	647312.30	ALCAP2"	41+12.90	41.45R
1302	337366.71	647238.58	TACK_LEADPLUG	39+71.78	27.78L
1303	337474.70	647218.00	REBAR	38+84.60	96.95L
1304	337073.58	647661.22	ALCAP3.25"LS7331_USMS550	N\A	N\A
1305	337186.89	647556.68	BC2"_L6-1A_ROW	43+37.90	57.41L
1306	337309.55	647576.58	ALCAP2"LS7331_ROW	42+89.93	170.46L
1307	337208.31	647515.37	ALCAP2"_LS7331_LE-1_ROW	42+93.29	52.22L
1308	337211.59	647510.42	REBAR	42+87.55	52.29L
1309	337210.80	647509.82	REBAR	42+87.48	51.30L
1310	337200.18	647494.74	PK/WASH	42+80.61	34.22L
1311	337204.49	647479.02	ALCAP2"_LS7331_LF-1_ROW	42+65.05	29.37L
1312	337209.55	647470.98	ALCAP2"_LS7331_LF-1_ROW	42+55.55	29.29L
1313	337208.54	647470.34	ALCAP2"_LS7331_LF-1_ROW	42+55.56	28.11L
1314	337281.57	647356.93	ALCAP2"_LS7331_LF-1_ROW	41+20.42	28.40L
1315	337124.10	647507.50	ALCAP2"_#0018_KGB	43+33.11	22.18R
1316	337124.71	647507.48	PK/WASH_LS5453	43+32.75	21.70R
1317	337130.47	647453.65	BC3.25"NOAA	42+83.59	46.64R
1318	337050.11	647610.77	ALCAP2"_TRB_ROW	44+60.39	23.42R
1319	337297.41	647333.22	ALCAP1.5"_LS3248	40+91.35	28.43L
1320	337733.57	645525.85	ALCAP2.5"_L4A/ROW	18+72.66	30.84R
1321	337747.30	645515.09	ALCAP2.5"_L4A/ROW	18+58.67	30.82R
1322	337896.86	645408.06	ALCAP2.5"	16+74.77	33.04R
1330	337048.79	647164.56	REBAR5/8"	40+91.76	272.00R
1331	337445.71	647415.91	ALPRIM3.5"_TRC_USS437\BLK28_L27	40+73.97	197.46L
1332	337046.35	647113.47	ALCAP2.5"_L6C\L1	40+57.75	303.22R
1333	337060.86	647124.36	ALCAP2.5"_L1	40+58.12	285.09R
1334	337490.97	647462.98	ALPRIM3.5"_USMS550_LF1	40+89.35	261.45L
1335	337256.23	647603.23	ALPRIM3.5"_USMC550_LG2\USMC550_LG1A	43+36.83	140.93L
1340	337799.66	645860.03	FND_HOLE_0.15X0.25_CONC	22+11.52	30.39R
1344	337876.97	646649.00	MAG	31+90.92	28.06L
1345	337358.58	647082.53	ALCAP2.5"_ROW	38+58.04	79.49R
1346	337279.56	647128.62	REBAR5/8"	39+42.83	109.34R
1347	337252.90	647159.20	REBAR5/8"	39+80.61	110.68R
1348	337213.69	647132.73	REBAR5/8"	39+83.93	157.85R
1349	337198.23	647114.44	REBAR5/8"	39+79.69	181.33R
1350	337158.24	647043.33	REBAR5/8"	39+53.44	257.17R
1351	337290.87	647244.85	PLASCAP	40+23.24	28.29R
1353	337372.13	647038.39	ALCAP2.5"_LS7213	38+15.78	98.11R
1354	337369.86	647041.34	SPINHOLE_PLASCAP_CL GISSE_DISTURBED	38+19.50	97.89R
1355	337386.79	647051.52	ALCAP2.5"_LS7213	38+16.13	78.42R
1356	337374.28	647065.74	ALCAP2.5"_LS7213	38+35.07	78.59R
1358	337143.18	647468.52	FND_HOLE_0.30X0.25_CONC	42+89.36	27.92R
1361	337779.66	645726.20	ALCAP2"_LS7213	20+90.31	29.78L

MONUMENT NOTES:

1. If any pair of control points disagrees from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

2. Whether listed or not, all monuments, property markers, or accessories that will be disturbed or buried shall be referenced prior to being disturbed, and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 shall be submitted to the construction engineer for review prior to recording. Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.

All **PROPERTY MONUMENTS** in these **existing property** tables shall be **preserved in place** and/or **referenced** prior to disturbance and replaced at their original horizontal position. A record monument form shall be prepared and submitted to DOT for review before recording.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE _____ Date 4/27/20

8-15-17

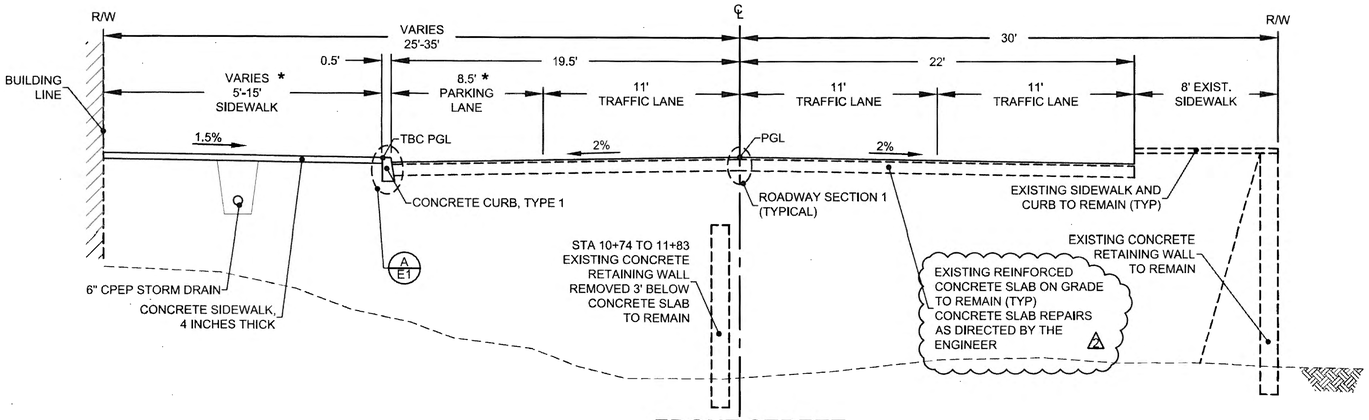
STATE OF ALASKA
49TH
Daniel V. Ignatov
No. 11296
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KTN: FRONT, MILL, STEDMAN
RECONSTRUCTION
PROJECT # Z681600000
NH-0902(038)

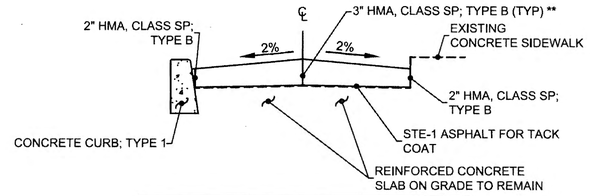
SURVEY CONTROL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/7/17	REVISE GENERAL NOTE 5	ALASKA	NH-0902(038)	2017	B1	140
2	11/16/17	NOTE ADDED					

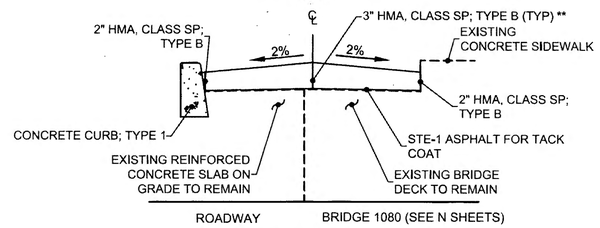


FRONT STREET

STA 10+15 TO STA 11+80.9±
*** SEE GENERAL NOTE 1**
STA 10+60 (GRANT STREET)
STA 11+95 LT (PEDESTRIAN CROSSING)



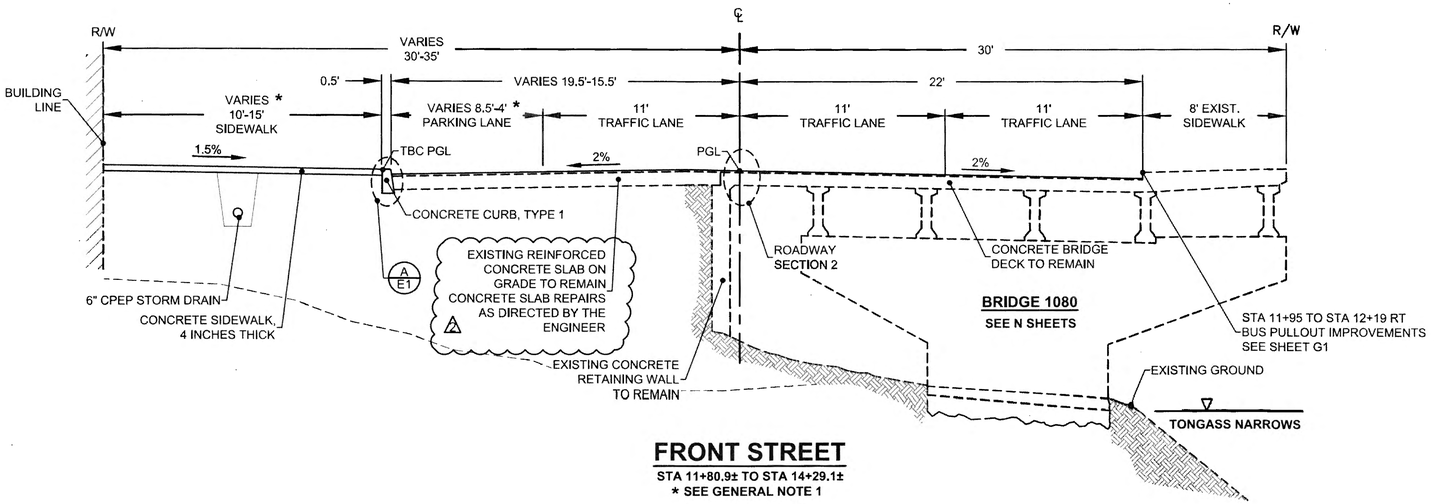
ROADWAY SECTION 1
**** SEE GENERAL NOTE 5**
NTS



ROADWAY SECTION 2
**** SEE GENERAL NOTE 5**
NTS

GENERAL NOTES:

1. TYPICAL PARKING LANE WIDTH IS 8.5 FEET. AT BULB OUT LOCATIONS THE PARKING LANE IS REPLACED WITH WIDENED SIDEWALK. SEE G-SHEETS FOR CURB, CURB AND GUTTER, SIDEWALK, AND EDGE OF PAVEMENT (EOP) DETAILS.
2. MAXIMUM SIDEWALK CROSS SLOPE IS 1.5%.
3. PAVEMENT CORINGS WERE NOT TAKEN FROM STA 10+15± TO STA 20+38± DUE TO THE PRESENCE OF THE REINFORCED CONCRETE SLAB ON GRADE AND BRIDGE NO. 1080 AND 1081 CONCRETE DECKS. BETWEEN STA 10+15± AND STA 15+00± ASPHALT PAVEMENT THICKNESS VARIES 2-4 INCHES. BETWEEN STA 15+00± TO STA 17+00± THERE IS NO ASPHALT PAVEMENT. BETWEEN STA 20+38± AND STA 42+44± TEST BORINGS INDICATE THE EXISTING ASPHALT THICKNESS IN THE ROADWAY VARIES BETWEEN 4-11 INCHES. REFER TO GEOTECHNICAL DATA REPORT - FINAL DATED MARCH 5, 2015 FOR ADDITIONAL INFORMATION.
4. ASPHALT REMOVED FROM THE PROJECT SHALL BE DELIVERED TO THE 7 MILE LOT ON THE SOUTH TONGASS HIGHWAY. COORDINATE DELIVERIES WITH THE LOCAL MAINTENANCE AND OPERATIONS OFFICE AT 225-2513.
5. TAPER THE ASPHALT THICKNESS FROM 3" AT CENTERLINE TO 1.5" OR 2" (AS SHOWN ON ROADWAY SECTIONS) AT THE FACE OF THE CONCRETE CURB, TYPE 1 OR FACE OF EXISTING SIDEWALK. (1)
6. BETWEEN STATION 20+30 AND STATION 42+44, USE GEOTEXTILE SEPARATION AS REQUIRED IN EXCAVATED AREAS WHERE SILTY OR ORGANIC RICH MATERIALS ARE PRESENT AT THE BOTTOM OF THE EXCAVATIONS. USE GEOTEXTILE, STABILIZATION AS REQUIRED IN OTHER EXCAVATED AREAS TO ACHIEVE REQUIRED COMPACTION.
7. ALL CURB AND CURB AND GUTTER SECTIONS ARE TYPE 1.
8. TRANSITION BETWEEN DIFFERENT CURB AND GUTTER SECTIONS OVER A DISTANCE OF 6 FEET.
9. CAST STANDARD CURB AND GUTTER AT CURB RAMPS PER STANDARD DRAWINGS.
10. SEE SECTION 202 FOR REMOVAL AND RELOCATION OF ON STREET ITEMS.



FRONT STREET

STA 11+80.9± TO STA 14+29.1±
*** SEE GENERAL NOTE 1**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE _____ Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907 522-1707 VOICE
907 522-3404 FAX
WWW.RMCONSULT.COM
CERT. OF AUTH. NO.
AECC111

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
11/17
REGISTERED PROFESSIONAL ENGINEER

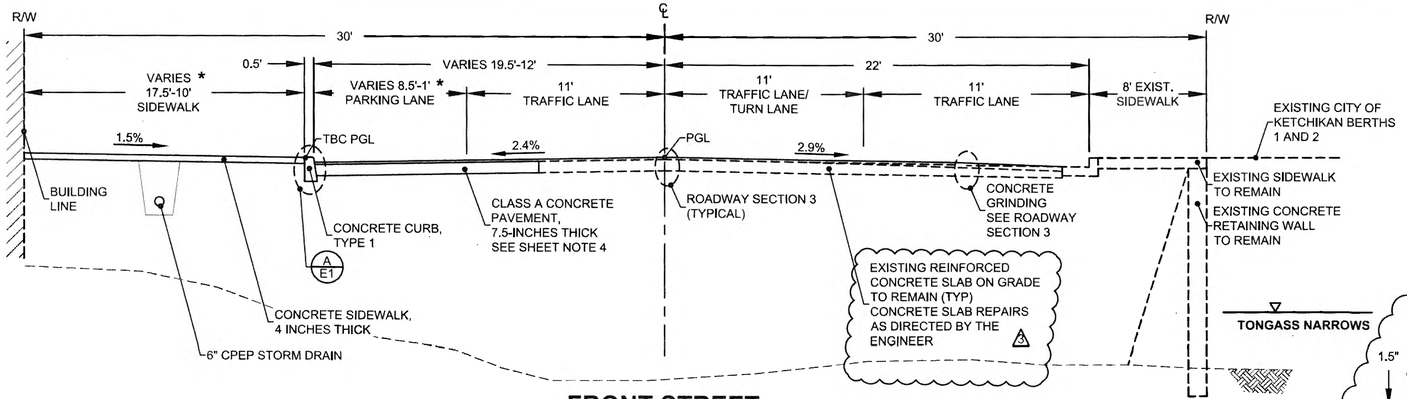
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

TYPICAL SECTIONS

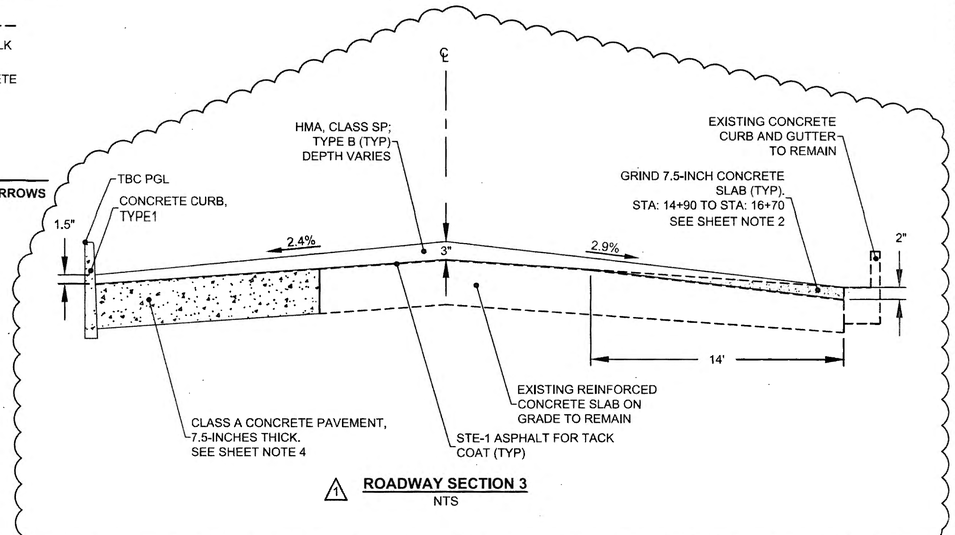
FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\AOAD\1900.03-B-Typical Sections.dwg | DATE 1/16/2017 13:40 | LAYOUT B1 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/7/17	COMBINE ROAD SECTIONS 3 & 3A	ALASKA	NH-0902(038)	2017	B2	140
2	11/7/17	REVISE SHEET NOTES					
3	11/16/17	NOTE ADDED					

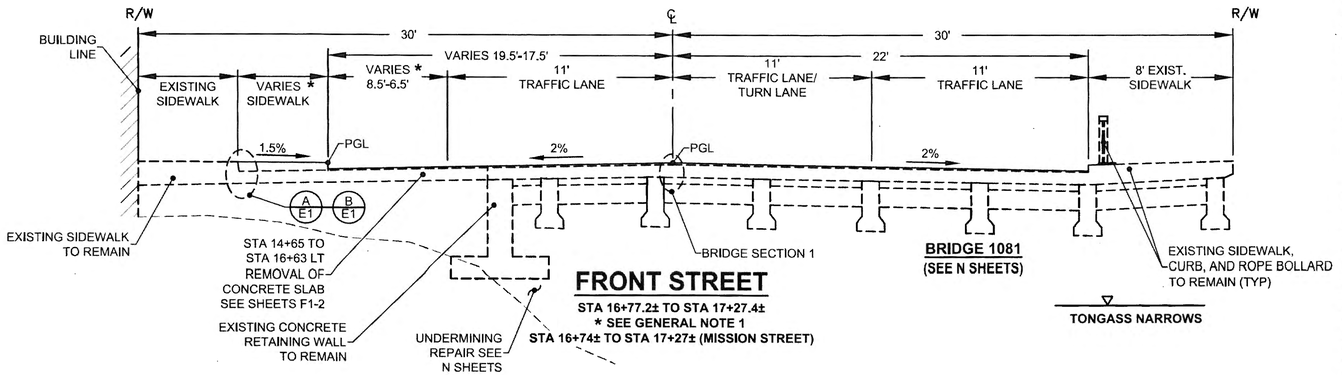


FRONT STREET

STA 14+29.1± TO STA 16+77.2±
*** SEE GENERAL NOTE 1**
STA 13+95± TO STA 15+17± (DOCK STREET)



1 **ROADWAY SECTION 3**
NTS



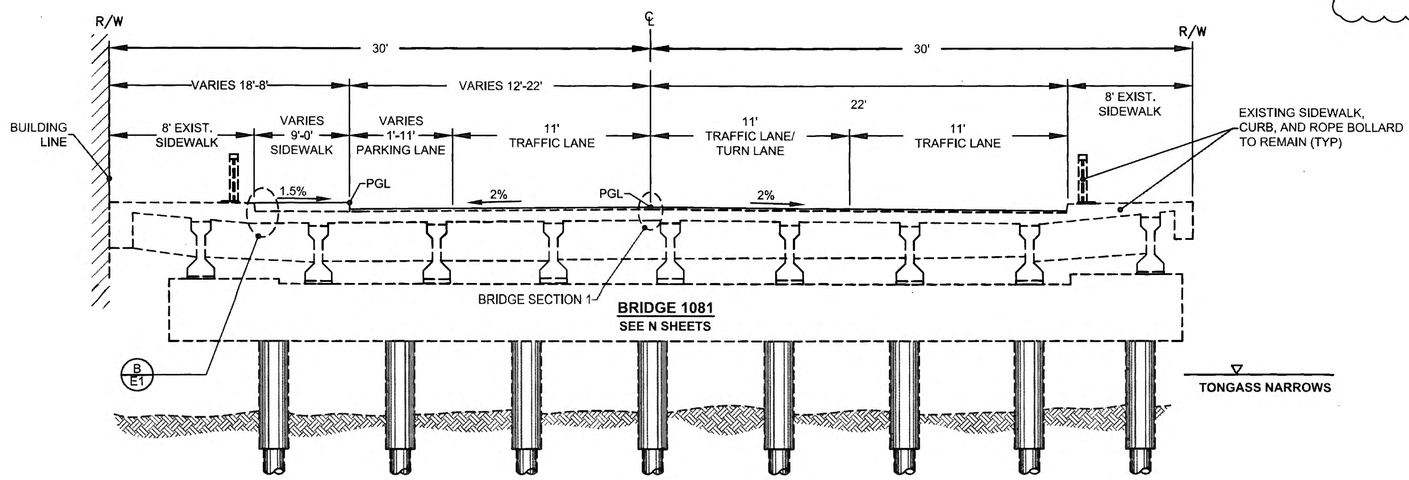
FRONT STREET

STA 16+77.2± TO STA 17+27.4±
*** SEE GENERAL NOTE 1**
STA 16+74± TO STA 17+27± (MISSION STREET)

SHEET NOTES:

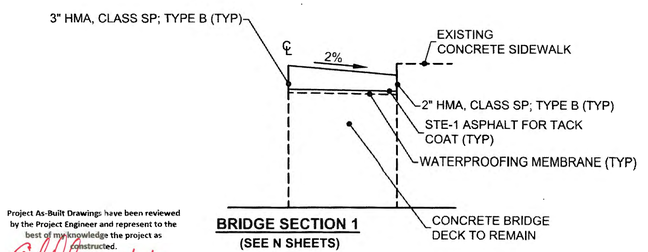
2

1. FINAL ASPHALT PAVEMENT THICKNESS VARIES FROM 3" AT CENTERLINE TO 1.5" OR 2" (AS SHOWN ON ROADWAY SECTIONS) AT THE FACE OF THE CONCRETE CURB, TYPE 1 OR EXISTING LIP OF GUTTER.
2. GRIND CONCRETE SLAB WIDTHS AND DEPTHS MAY VARY AND ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
3. BETWEEN STA 15+00 AND STA 16+70, THE CONCRETE SLAB IS REINFORCED WITH WELDED WIRE FABRIC. PREVIOUS UTILITY IMPROVEMENTS AND ROADWAY REPAIRS HAVE OCCURRED AND DOWEL OR TIE BARS MAY HAVE BEEN INSTALLED IN THE CONCRETE SLAB.
4. SEE DEMOLITION PLAN FOR REMOVAL OF 7.5 INCH CONCRETE SLAB LIMITS. SEE SHEETS E3 AND E4 FOR CONCRETE PAVEMENT JOINT LAYOUT AND DETAILS.



FRONT STREET/MILL STREET

STA 17+27.4± TO STA 20+35.0±
*** SEE GENERAL NOTE 1**



BRIDGE SECTION 1
(SEE N SHEETS)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By Date 1/27/20

PLANS DEVELOPED BY:
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STATE OF ALASKA 49TH
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No. CE 9632
11/16/17
REGISTERED PROFESSIONAL ENGINEER

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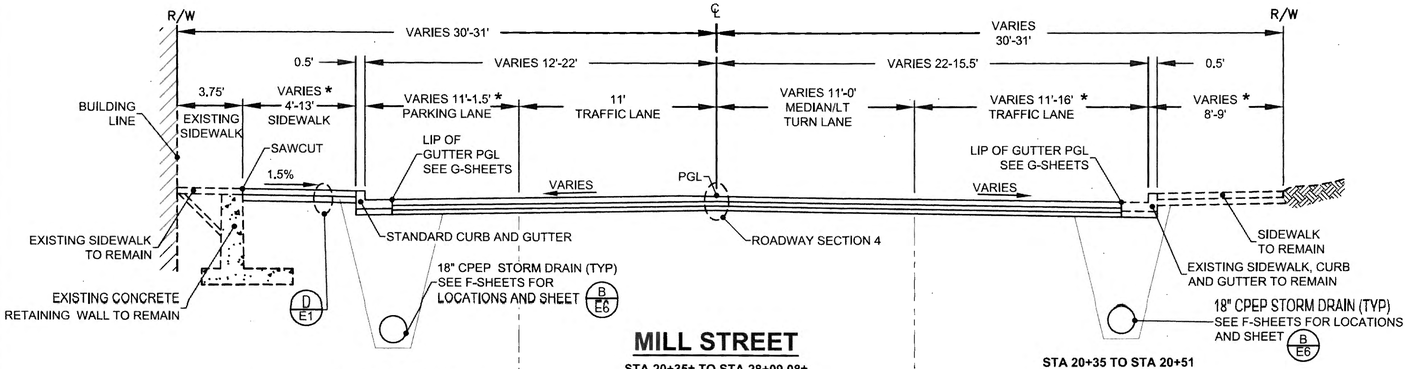
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

TYPICAL SECTIONS

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-B-Typical Sections.dwg
DATE 11/16/2017 13:40
LAYOUT B2
DESIGNED
CHECKED
DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	B3	140

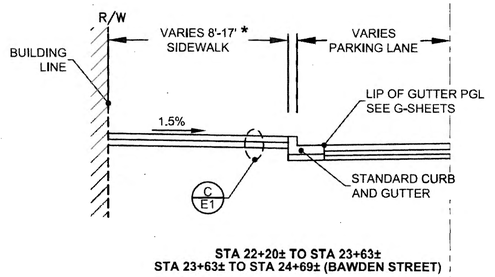


STA 20+32 TO STA 21+49±
STA 21+49± TO STA 22+20± (MAIN STREET)

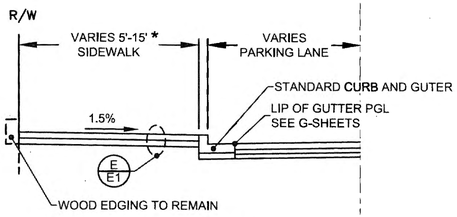
MILL STREET

STA 20+35± TO STA 28+09.08±
*** SEE GENERAL NOTE 1**
**** STA 22+25 TO STA 25+00**
REMOVAL OF TIMBER PILES AND PILE CAPS, 4 FOOT DEPTH. SEE SHEET F3

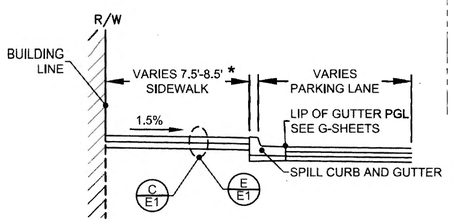
STA 20+35 TO STA 20+51



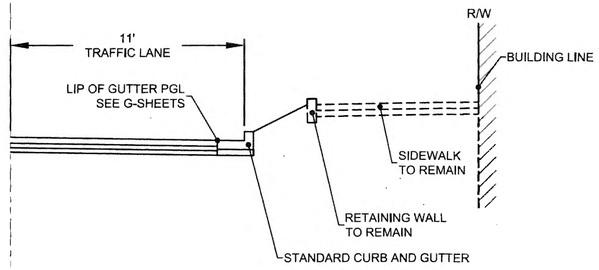
STA 22+20± TO STA 23+63±
STA 23+63± TO STA 24+69± (BAWDEN STREET)



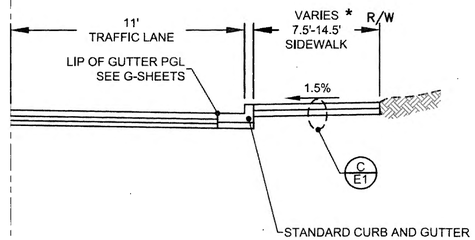
STA 24+69 TO STA 26+73 LT



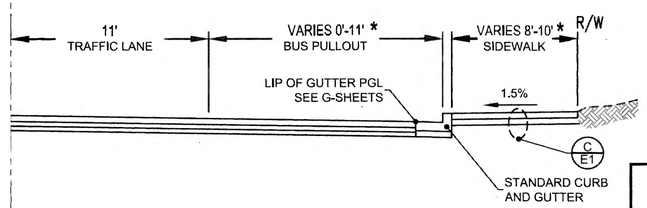
STA 26+73 TO STA 27+53
STA 27+53± TO STA 27+85 (DOCK STREET)
STA 27+85 TO STA 28+09



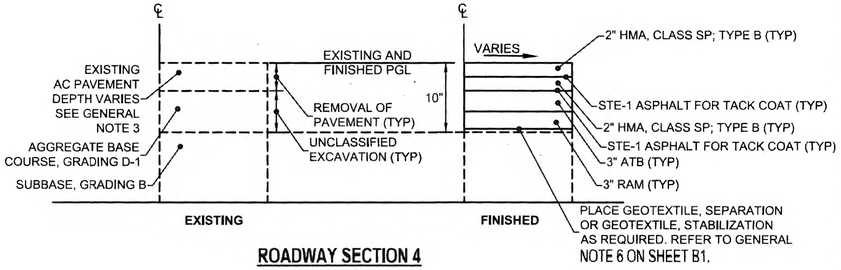
STA 20+51 TO STA 21+59
STA 21+59± TO STA 22+13± (MAIN STREET)



STA 22+13 TO STA 23+58
STA 23+58± TO STA 24+46± (BAWDEN STREET)
STA 24+46± TO STA 25+35
STA 27+01 TO STA 28+09



STA 25+35 TO STA 27+01±



ROADWAY SECTION 4

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE _____ Date 1/27/20

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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

TYPICAL SECTIONS

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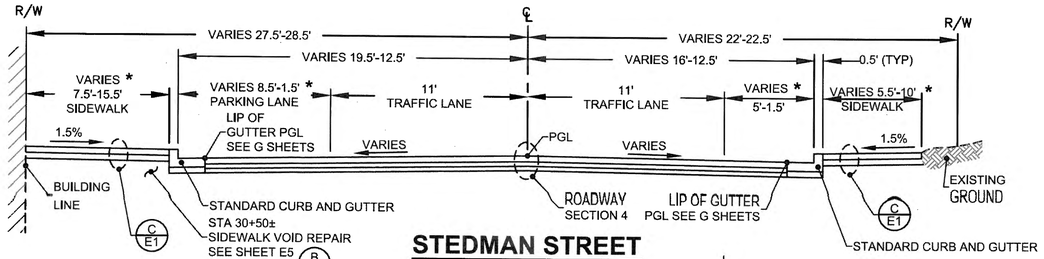
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	B4	140

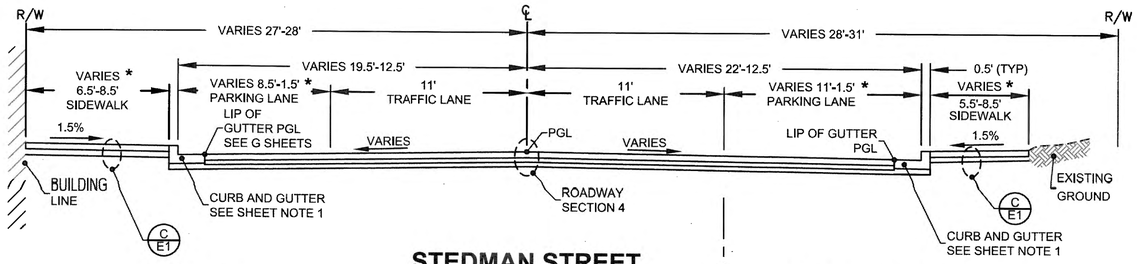


STEDMAN STREET

STA 28+09.8± TO STA 30+97.8±
*** SEE GENERAL NOTE 1**
STA 30+97.8± TO STA 32+23.3±
BRIDGE 724 (SEE N SHEETS)
STA 30+04± (PEDESTRIAN CROSSING)

STA 28+35 TO STA 30+72

STA 28+09 TO STA 29+87

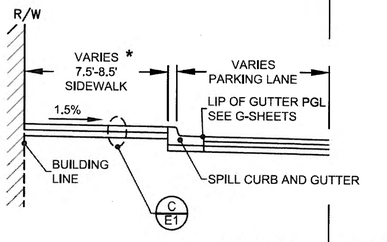


STA 32+23± TO STA 42+44±

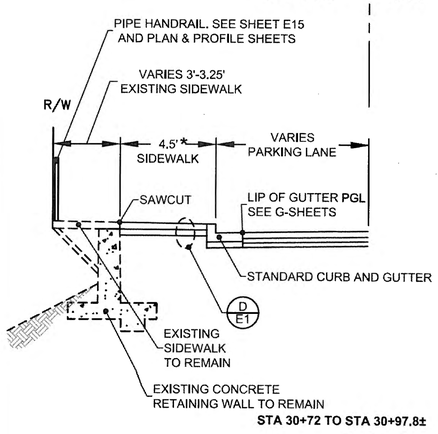
STEDMAN STREET

STA 32+23.3± TO STA 42+44±
*** SEE GENERAL NOTE 1**
STA 34+68± (PEDESTRIAN CROSSING)

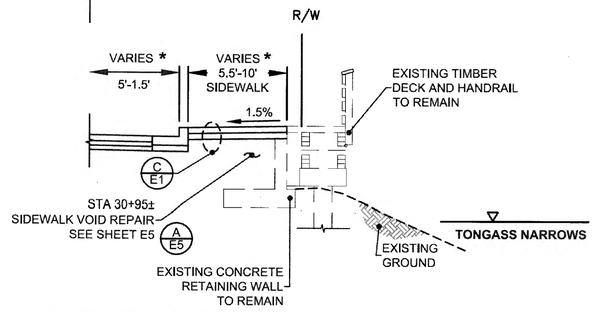
STA 35+67± TO STA 36+78±
STA 37+73± TO STA 42+44±



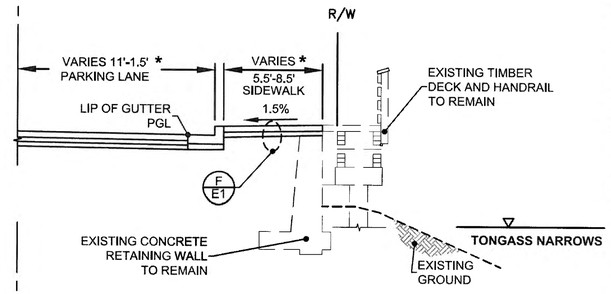
STA 28+09± TO STA 28+35



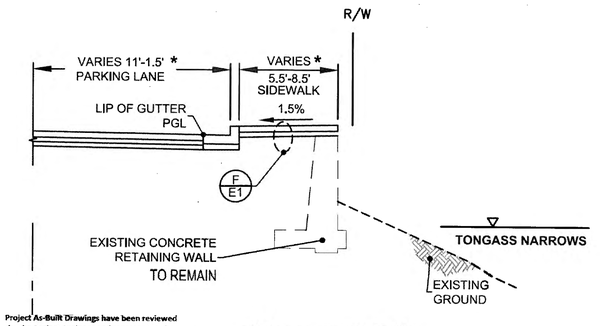
STA 30+72 TO STA 30+97.8±



STA 29+86± TO STA 30+97.8±



STA 32+23± TO STA 35+67±



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PE Date 1/27/20

STA 36+78± TO STA 36+98±
STA 36+98± TO STA 37+28± (THOMAS STREET)
STA 37+28± TO STA 37+73±

SHEET NOTES:

1. CURB AND GUTTER SECTIONS VARY. SEE G-SHEETS FOR LOCATIONS AND SHEET E2 FOR CURB AND GUTTER SECTIONSS.

PLANS DEVELOPED BY:
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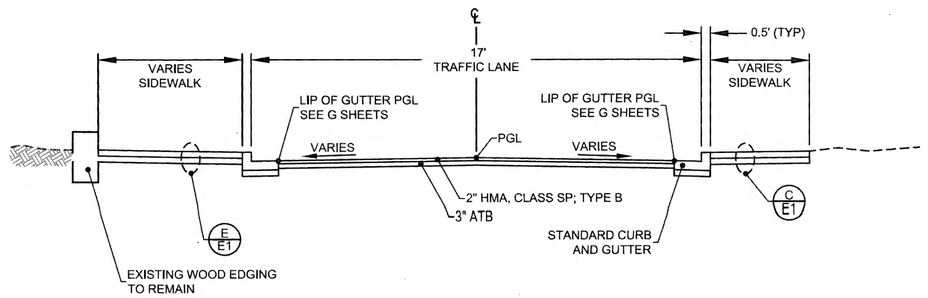
KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

TYPICAL SECTIONS

FILE Z:\project\1900_03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900_03-B-Typical Sections | DATE 8/15/2017 11:35 | LAYOUT B4 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	B5	140



DOCK STREET

STA 5+00 TO STA 5+97
(MILL STREET STA 27+72.54)

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By _____ Date 1/27/20

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KTN: FRONT, MILL AND STEDMAN
STREETS RECONSTRUCTION
PROJECT #Z68160000

TYPICAL SECTIONS

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/7/17	REMOVE PAY ITEM 401(3)	ALASKA	NH-0902(038)	2017	C1	140
2	11/16/17	REVISE PAY ITEM					
3	11/17/17	REMOVE PAY ITEM 201(8)					

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
3			
2 201(9)	INVASIVE PLANTS SPECIES CONTROL, REMOVAL, AND DISPOSAL	SQUARE YARD	50 ~~0~~
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	(1) ALL REQUIRED
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	17809.7 ~~15,800~~
202(3)	REMOVAL OF SIDEWALK	SQUARE YARD	2581.4 ~~2,945~~
202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	1281.30 ~~1,498~~
202(9)	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	4737.67 ~~4,115~~
202(13)	ABANDON AND FILL EXISTING PIPE	LINEAR FOOT	128.0 ~~39~~
202(14)	REMOVAL OF MAIL COLLECTION BOX	EACH	2
202(15)	CLEAN AND INSPECT STORM DRAIN SYSTEM	LUMP SUM	(1) ALL REQUIRED
202(18)	REMOVAL OF STORM DRAIN STRUCTURE	EACH	20 ~~21~~
202(26)	REMOVAL OF TIMBER PILES AND PILE CAPS, 4-FOOT DEPTH	EACH	62 ~~30~~
202(27)	REMOVAL OF 7.5 INCH CONCRETE SLAB	SQUARE YARD	778.37 ~~884~~
202(28)	REMOVAL OF CITY-OWNED AMENITY	EACH	19 ~~14~~
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	1789.57 ~~2,400~~
203(6A)	BORROW, TYPE A	TON	373.24 ~~5,600~~
204(1)	STRUCTURE EXCAVATION	CUBIC YARD	2430.36 ~~3,000~~
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	6155.91 ~~3,240~~
306(1)	ATB	TON	1673.67 ~~1,700~~
401(1SP)	HMA, CLASS SP; TYPE B	TON	3203.50 ~~2,850~~
1			
401(4SP)	ASPHALT BINDER, GRADE PG 58-28	TON	267.29 ~~239~~
401(5)	HMA, TEMPORARY, TYPE II; CLASS B	TON	999.35 ~~760~~
401(8SP)	HMA PRICE ADJUSTMENT, TYPE SP; CLASS B	CONTINGENT SUM	ALL REQUIRED
401(9)	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
401(14)	JOINT ADHESIVE	LINEAR FOOT	3938.10 ~~9,400~~
401(15)	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402(1)	STE-1 ASPHALT FOR TACK COAT	TON	10.33 ~~11~~
501(1)	CLASS A CONCRETE	LUMP SUM	ALL REQUIRED
501(9)	CRACK REPAIR	LINEAR FOOT	25.25 ~~32.3~~
501(9A)	CRACK REPAIR BRIDGE NO. 1080	LINEAR FOOT	17.92 ~~9~~
501(9B)	CRACK REPAIR BRIDGE NO. 1081	LINEAR FOOT	8
501(10)	CLASS A CONCRETE PAVEMENT, 7.5-INCHES THICK	SQUARE YARD	542.75 ~~671~~
501(16A)	SPALL REPAIR BRIDGE NO. 1080	SQUARE FOOT	24.09 ~~34~~
501(16B)	SPALL REPAIR BRIDGE NO. 1081	SQUARE FOOT	132.56 ~~137~~
503(1)	REINFORCING STEEL	LUMP SUM	ALL REQUIRED
503(3)	DRILL AND BOND DOWELS	EACH	72
508(1A)	WATERPROOFING MEMBRANE BRIDGE NO. 1080	LUMP SUM	ALL REQUIRED
508(1B)	WATERPROOFING MEMBRANE BRIDGE NO. 1081	LUMP SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
510(1)	REMOVAL OF CONCRETE BRIDGE DECK	SQUARE FOOT	4,216
510(2)	GRIND 7.5-INCH CONCRETE SLAB	SQUARE FOOT	2490.70 ~~2,900~~
510(102)	BRIDGE DECK REPAIRS	CONTINGENT SUM	7.7 ALL REQUIRED
510(102A)	BRIDGE DECK REPAIRS BRIDGE NO. 1080	CONTINGENT SUM	1.02 ALL REQUIRED
510(102B)	BRIDGE DECK REPAIRS BRIDGE NO. 1081	CONTINGENT SUM	.10 ALL REQUIRED
510(102C)	CONCRETE SLAB REPAIRS	CONTINGENT SUM	0 ALL REQUIRED
516(1)	EXPANSION JOINT (SILICONE)	LINEAR FOOT	166.0 ~~190~~
516(1A)	EXPANSION JOINT (HEADER AND SILICONE) BRIDGE NO. 1080	LINEAR FOOT	150.6 ~~192~~
516(1B)	EXPANSION JOINT (HEADER AND SILICONE) BRIDGE NO.1081	LINEAR FOOT	334.73 ~~461~~
525(1)	POLYESTER CONCRETE OVERLAY	LUMP SUM	ALL REQUIRED
582(1)	PILE REPAIR AND PROTECTION	EACH	7 ~~6~~
583(1)	UNDERMINING REPAIR	CUBIC YARD	10 ~~30~~
583(2)	UNDERMINING REPAIR VOID BACKFILL	CUBIC YARD	13.53 ~~31~~
584(1)	GIRDER END PROTECTION	EACH	86 ~~122~~
585(1)	DECK DRAIN MODIFICATION	EACH	14 ~~16~~
586(1)	MANHOLE PLUG	EACH	2
603(9-18)	18 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	27.33 ~~33~~
603(21-6)	6 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	402.80 ~~451~~
603(21-8)	8 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~164.05~~ ~~102~~ 207.30
603(21-12)	12 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	198 ~~138~~
603(21-18)	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	833 ~~1,423~~
603(22-18)	18 INCH LINER PIPE	LINEAR FOOT	53.50 ~~52~~
603(21-24)	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	
603(23A)	STORM DRAIN SERVICE, TYPE A	EACH	26 ~~11~~
603(23B)	STORM DRAIN SERVICE, TYPE B	EACH	8 ~~7~~
604(1A)	STORM DRAIN MANHOLE, TYPE I	EACH	11 ~~13~~
604(1D)	STORM DRAIN STRUCTURE, TYPE 20	EACH	11
604(3A)	RECONSTRUCT EXISTING STORM DRAIN STRUCTURE	EACH	~~10~~ ~~9~~ 9
604(3B)	RECONSTRUCT EXISTING STORM DRAIN STRUCTURE	CONTINGENT SUM	ALL REQUIRED
604(5)	INLET, TYPE A	EACH	15 ~~14~~
604(8)	STORM DRAIN STRUCTURE FRAME AND GRATE REPLACEMENT	EACH	2 ~~3~~
604(8A)	SANITARY SEWER MANHOLE FRAME AND COVER REPLACEMENT	EACH	22
604(10)	ADJUST EXISTING UTILITY VAULT	EACH	14 ~~12~~
608(1a)	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	3482.54 ~~3,615~~
608(1b)	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	846.48 ~~407~~
608(3)	ASPHALT SIDEWALK	SQUARE YARD	619.64 ~~437~~

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Date 1/21/20

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KTN: FRONT, MILL AND STEDMAN
STREETS RECONSTRUCTION
PROJECT #Z68160000

ESTIMATE OF QUANTITIES

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-C1-D1.dwg | DATE 11/17/2017 8:27 | LAYOUT C1 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/15/17	PAY ITEMS REMOVED	ALASKA	NH-0902(038)	2017	C2	140

DRAFTED | CHECKED | DESIGNED | LAYOUT C2 | DATE 1/15/2017 16:17 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\MCAD\1900_03-C1-01.dwg

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
608(6)	CURB RAMP	EACH	33 ~~35~~
609(1)	CURB, TYPE 1	LINEAR FOOT	847.90 ~~741~~
609(2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	4425 ~~4,358~~ ~~452.9~~ 4
615(1)	STANDARD SIGN	SQUARE FOOT	458
615(2)	REMOVE AND RELOCATE EXISTING SIGN	EACH	19 ~~4~~
615(6)	SALVAGE SIGN	EACH	133 ~~128~~
625(1)	PIPE HAND RAIL	LINEAR FOOT	60
626(3)	ADJUST SANITARY SEWER CLEANOUT	EACH	8 ~~6~~
627(2-8A)	WATER CONDUIT, 8 INCH HDPE PIPE	LINEAR FOOT	78 ~~77~~
627(6)	FIRE HYDRANT RELOCATION	EACH	3 ~~2~~
627(8)	WATER SERVICE CONNECTION	EACH	2
627(9-4)	INSTALL 4 INCH GATE VALVE	EACH	1
627(9-8)	INSTALL 8 INCH GATE VALVE	EACH	2
627(10)	ADJUSTMENT OF VALVE BOX	EACH	127 ~~120~~
627(20)	WATER SYSTEM AS-BUILT DRAWINGS	LUMP SUM	ALL REQUIRED
630(1)	GEOTEXTILE, SEPARATION	SQUARE YARD	0 ~~3,680~~
630(2)	GEOTEXTILE, STABILIZATION	SQUARE YARD	254.70 ~~2,030~~
639(3)	APPROACH	EACH	21
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640(4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641(3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641(5)	TEMPORARY EROSION SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED
641(6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
641(7)	SWPPP MANAGER	LUMP SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642(3)	THREE PERSON SURVEY PARTY	HOUR	24.49 ~~230~~
642(4)	SET PRIMARY MONUMENT	EACH	9 ~~4~~
642(5)	SET SECONDARY MONUMENT	EACH	25 ~~22~~
642(7)	REPLACE EXISTING WITH SECONDARY MONUMENT	EACH	26 ~~25~~
642(9)	REFERENCE EXISTING MONUMENT	EACH	~~70~~ ~~51~~
642(104)	BRIDGE SURVEY	LUMP SUM	ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643(14)	INTERIM PAVEMENT MARKING	STATION	2348 ~~93~~
643(15)	FLAGGING	HOUR	15,460 ~~4,500~~
643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	~~ALL REQUIRED~~

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
643(33)	PUBLIC INFORMATION COORDINATOR (PIC)	LUMP SUM	ALL REQUIRED
644(20)	WEB-BASED SUBMITTAL EXCHANGE SERVICE	LUMP SUM	ALL REQUIRED
645(1)	TRAINING PROGRAM, 1 TRAINEES/APPRENTICES	LABOR HOUR	500
646(1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
660(18)	ADJUST JUNCTION BOX	EACH	49 ~~43~~
660(19B)	JUNCTION BOX, TYPE 2	EACH	5
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED
670(13)	INLAID METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED

BASIS OF ESTIMATE

ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
203(6A)	BORROW, TYPE A	144 LB/CF
301(1)	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF
306(1)	ATB	151 LB/CF
401(1SP)	HMA, CLASS SP, TYPE B	151 LB/CF
401(4SP)	ASPHALT BINDER, GRADE PG 58-28	6% WT OF HMA + 4% WT OF ATB
401(5)	HMA, TEMPORARY, TYPE II; CLASS B	151 LB/CF
402(1)	STE-1 ASPHALT FOR TACK COAT	0.1 GAL/SY ; 243 GAL/TON

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907 522-1707 VOICE
907 522-3404 FAX
WWW.RMCONSULT.COM
CERT. OF AUTH. NO.
AECC111

STATE OF ALASKA · 49TH · Lance W. DeBernardi · No. CE 9832 · REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN
STREETS RECONSTRUCTION
PROJECT #Z68160000

ESTIMATE OF QUANTITIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/15/17	REVISED TOTAL	ALASKA	NH-0902(038)	2017	D1	140

202(1) REMOVAL OF STRUCTURES AND OBSTRUCTIONS

DESCRIPTION	LOCATION	NOTES
IN-ROADWAY WARNING SIGNAL LIGHT	FRONT STREET AT GRANT ST/WATER ST INTERSECTION	
PIPE HAND RAIL	STA 10+70 (RT) TO STA 11+31 (RT)	APPROXIMATELY 61 FEET
PIPE HAND RAIL	STA 16+71 (LT) TO STA 16+78 (LT)	APPROXIMATELY 7 FEET
MEDIANS	BAWDEN/MILL INTERSECTION	REMOVAL OF CURB AND GUTTER PAID FOR SEPARATELY
PIPE HAND RAIL	STA 30+49 (LT) TO STA 30+80 (LT)	APPROXIMATELY 31 FEET
PIPE HAND RAIL	STA 37+25 (RT) TO STA 37+43 (RT)	APPROXIMATELY 43 FEET 18.5

202(2) REMOVAL OF PAVEMENT

BEGIN STATION	END STATION	OFFSET	AREA (SY)	REMARKS
10+15	14+90	LT/RT	2,582	MAINLINE
16+70	42+44	LT/RT	12,838	MAINLINE
24+48	27+40	LT	273	ADJACENT TO WHALE PARK
23+35	25+75	RT	29	APPROACH
26+09	26+33	RT	6	APPROACH
29+26	29+42	RT	11	DRIVEWAY
34+69	35+07	LT	6	PARKING LOT
35+67	35+98	RT	20	DRIVEWAY
38+40	38+55	LT	9	PARKING LOT
40+81	41+03	RT	14	EAST STREET
41+06	41+30	LT	21	PARKING LOT
TOTAL			~~15,809~~ 17,864.77	

202(3) REMOVAL OF SIDEWALK

BEGIN STATION	END STATION	OFFSET	AREA (SY)	REMARKS
10+26	10+45	LT	21	NORTH QUAD - FRONT/GRANT
10+63	10+87	RT	16	SOUTH QUAD - FRONT/WATER
10+75	14+31	LT	337	SIDEWALK BETWEEN FRONT AND DOCK
11+96	12+33	RT	31	SIDEWALK TO IMPROVE BUS PULLOUT (BRIDGE NO. 1080)
14+74	16+81	LT	244	SIDEWALK BETWEEN DOCK AND MISSION
17+21	17+52	LT	55	SIDEWALK AT DOCK MISSION - SOUTH SIDE
20+33	21+69	LT	78	SIDEWALK FROM BRIDGE 1081 TO MAIN
21+57	21+74	RT	26	SIDEWALK MILL AND MAIN - SOUTH SIDE
22+02	23+85	LT	159	SIDEWALK BETWEEN MAIN AND BAWDEN
27+25	30+98	RT	234	SIDEWALK - MILL/STEDMAN CURVE TO BRIDGE 724
27+35	27+40	LT	9	CURB RAMP AT DOCK ST
27+43	30+97	LT	276	SIDEWALK AT DOCK/STEDMAN TO BRIDGE 724
32+23	42+46	LT	658	SIDEWALK BRIDGE 724 TO EOP
32+23	37+02	RT	322	SIDEWALK BRIDGE 724 TO THOMAS ST
37+23	42+17	RT	355	SIDEWALK - THOMAS ST TO EOP
40+81	41+05	RT	124	CONCRETE PARKING LOT
TOTAL			~~2,945~~ 2,881.41	

202(4) REMOVAL OF CULVERT PIPE

SHEET	MIDPOINT STA/OFF	LENGTH (LF)	NOTES
F1	11+05 LT	57	
F1	13+70 LT	19	
F1	14+29 LT	24	
F1	14+62 LT	~~10~~ 11	PIPE REMOVAL TO SET NEW MANHOLE
F1	14+67 LT	~~10~~ 12	
F2	16+69 CL	43	
F2	~~16+93~~ LT 16+86/22' LT	~~30~~ 4	SEE ABANDON AND FILL
F3	22+03 LT	~~370~~ 117	SEE ABANDON AND FILL
F3	22+48 RT	~~520~~ 11.8	S-215 to P215 / under bridge
F4	27+28 CL	~~109~~ 110	
F4	28+44 RT	~~120~~ 19	
F5	30+78 CL	~~35~~ 36	
F5	30+86 RT	~~10~~ 5	
F5	32+51 CL	~~36~~ 33 (19)	
F5	32+51 RT	5	
F5	33+72 CL	42	
F6	35+64 CL	~~41~~ 43	
F6	37+35 RT	11	
TOTAL		~~1,498~~ 1287.30	

202(9) REMOVAL OF CURB AND GUTTER

Removal of Curb and Gutter — $10.00 /LF

Estimate 23 Period 4/15/2019 - 4/30/2019

Estimate	Location	Quantity (LF)	Date	Inspector	Remarks
ALL PREVIOUS	SEE FILE FOLDER	2606.27	to 10/15/2018		
15	STA 22+00, 25-35' RT	30.5	10/16/2018	RH	
15	Bawden North (RT)	33.5	10/25/2018	RH	
15	Bawden Mill South to S210 (RT)	137.5	10/27 2018	RH	
16	STA 20+40 RT (P215)	31	11/1/2018	RH	
16	(within) STA 25+80 RT to 21+00 RT	138	11/2/2018	RH	
16	Main/Mill North (RT)	6.6	11/12/2018	RH	
17	STA 27+90 LT to 25+50 LT	110.8	11/30/2018	RH	
18	STA 27+00 LT (Excavation for P400)	30	12/7/2018	RH	
19	STA 22+00 .31'LT to 23+97. 42'LT	204.7	2/20/2019	RH	
19	STA 20+33.LT to 21+69. 31'LT	133.8	2/23/2019	RH	
19	24+47.7 LT to 27+33 LT	436.7	2/28/2019	EB	
20	STA 13+42. 27"RT to 10+87. 20"RT	32.0	3/6/2019	RH	
20	Front LT Dock South to Mission North	287.4	3/14/2019	RH	Sub-grade not ready for pour
22	STA 10+26.11LT to 10+48.40'LT	47.7	4/6/2019	RH	
22	Deduction from Est. 20	-287.4	N/A	MH	
23	Front LT Dock South to Mission North	287.4	3/14/2019	RH	
23	STA 10+72.54'LT to STA 14+36.52'LT	394.1	4/8/2019	RH	
23	STA 17+21.54'LT to STA 17+42.12'LT	77.1	4/10/2019	RH	

TTD	4737.67	$47,376.70	
Previously Paid	4737.67	$47,376.70	
Due This Estimate	758.6	$7,586.00	

Pay $7,586.00 Estimate 23

LENGTH (LF)
37
26
138
142
205
681
38
62
442
15
8
321
1017
483

37+23.4	28.2 RT	42+17.1	22.3 RT	500
TOTAL				~~4,115~~ 4737.67

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Emily Kelly Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907 522-1707 VOICE
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CERT. OF AUTH. NO.
AECC111

STATE OF ALASKA — 49TH — Lance W. DeBernardi — No. CE 9632 — 11/15/17 — REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

DRAFTED | DESIGNED | CHECKED | LAYOUT D1 | DATE 1/15/2017 16:17 | FILE Z:\project\1900.03 DOT SE Ketchikan Will Stedman NIP 4%Civil\ACAD\1900.03-C1-D1.dwg

202(269)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

Item No: 202(25a)
DATE: 5/21/2019
Project No: 2581600000
Project Name: KTN Front MS Modroon Struct Reconstruction
Calc by: Mason Huffman

Computations

Price Adjusted Removal of Timber Piles & Pile Caps (STA 20+35 - 25+00) [redacted] Each

Estimate 24 Period 5/1/2019 - 5/15/2019

Estimate	Station	Elevation	Each	Date	Inspector			
24	23+16.6'RT	18.8	1	5/12/2019	RH			
24	23+16.1'LT	19.4	1	5/12/2019	RH			
24	23+06.6'RT	18.9	1	5/12/2019	RH			
24	23+06.2'LT	18.6	1	5/12/2019	RH			
24	22+98.5'RT	18.9	1	5/12/2019	RH			
24	22+88.5'RT	18.8	1	5/12/2019	RH			
24	23+16.8'RT	18.5	1	5/12/2019	RH			
24	21+10.4'RT	18.4	1	5/12/2019	RH			
24	22+78.1'RT	18.9	1	5/12/2019	RH			
24	22+78.2'RT	18.9	1	5/12/2019	RH			
24	22+69'.1'RT	18.8	1	5/12/2019	RH			
24	22+69'.3'RT	18.8	1	5/12/2019	RH			
24	22+48.5'RT	18.9	1	5/12/2019	RH			
24	22+59.3'RT	18.8	1	5/12/2019	RH			
24	22+59.5'RT	18.8	1	5/12/2019	RH			
24	21+48.1'LT	18.0	1	5/12/2019	RH			
24	23+79.2'LT	18.7	1	5/15/2019	RH			
24	23+79.3'RT	18.1	1	5/15/2019	RH			
24	23+85.9'LT	18.8	1	5/15/2019	RH			
24	23+86.8'LT	18.6	1	5/15/2019	RH			
24	23+86_CL	18.7	1	5/15/2019	RH			
24	23+97.3'LT	18.7	1	5/15/2019	RH			
24	23+97.7'LT	18.97	1	5/15/2019	RH			
24	24+06.3'LT	18.09	1	5/15/2019	RH			
24	24+06.5'LT	19.02	1	5/15/2019	RH			
24	24+08.7'LT	19.11	1	5/15/2019	RH			
24	24+16.2'RT	18.82	1	5/15/2019	RH			
24	24+14_CL	19.83	1	5/15/2019	RH			
24	24+19.6'LT	19.23	1	5/15/2019	RH			
24	24+19.5'LT	19.23	1	5/15/2019	RH			
24	24+25.6'LT	19.23	1	5/15/2019	RH			
24	24+28.3'RT	18.84	1	5/15/2019	RH			
24	24+28.6'LT	19.43	1	5/15/2019	RH			
24	24+33.2'RT	18.87	1	5/15/2019	RH			
24	24+39.2'LT	19.08	1	5/15/2019	RH			
24	24+39.4'LT	19.93	1	5/15/2019	RH			
24	24+41.4'LT	19.42	1	5/15/2019	RH			
24	24+41.2'RT	19.07	1	5/15/2019	RH			
24	23+85.18'LT	19.03	1	5/15/2019	RH			
24	23+87.16'LT	19.18	1	5/15/2019	RH			
24	23+99.14'LT	19.09	1	5/15/2019	RH			
24	24+02.17'LT	19.41	1	5/15/2019	RH			
24	24+09.11'LT	17.76	1	5/15/2019	RH			
24	24+11.14'LT	19.41	1	5/15/2019	RH			
24	24+22.12'LT	19.47	1	5/15/2019	RH			

[redacted]

25	23+79.8'RT	19.45	1	5/16/2019	RH			
25	23+96.7'RT	18.95	1	5/16/2019	RH			
25	24+06.7'RT	18.65	1	5/16/2019	RH			
25	24+15.6'RT	19.12	1	5/16/2019	RH			
25	24+26.7'RT	19.15	1	5/16/2019	RH			
25	24+37.6'RT	19.14	1	5/16/2019	RH			
25	24+65.7'RT	19.98	1	5/16/2019	RH			
25	24+68.8'RT	19.79	1	5/16/2019	RH			
25	24+70.8'RT	19.48	1	5/16/2019	RH			
25	24+72.10'RT	19.03	1	5/16/2019	RH			
25	24+77.12'RT	18.43	1	5/16/2019	RH			
25	24+79.13'RT	19.19	1	5/16/2019	RH			
25	24+86.13'RT	18.28	1	5/16/2019	RH			
25	24+79.14'RT	19.43	1	5/16/2019	RH			
25	25+03.8'RT	19.35	1	5/16/2019	RH			
25	24+45.11'RT	19.05	1	5/16/2019	RH			
25	24+47.14'LT	19.13	1	5/16/2019	RH			
25	24+52.CL	19.08	1	5/16/2019	RH			
25	24+52.5'LT	18.58	1	5/16/2019	RH			
25	24+61.CL	18.88	1	5/20/2019	RH			
25	24+61.2'LT	18.88	1	5/20/2019	RH			
25	24+62.5'LT	19.69	1	5/20/2019	RH			
25	24+64.3'LT	18.98	1	5/20/2019	RH			
25	24+66.2'LT	18.93	1	5/20/2019	RH			
25	24+70.CL	18.18	1	5/20/2019	RH			
25	24+70.4'LT	19.23	1	5/20/2019	RH			
25	24+76.3'LT	18.98	1	5/20/2019	RH			
25	24+79.1'LT	19.03	1	5/20/2019	RH			
25	24+79.10'LT	19.08	1	5/20/2019	RH			
25	24+81.1'LT	19.03	1	5/20/2019	RH			
25	24+82.8'LT	19.08	1	5/20/2019	RH			
25	24+90.5'LT	19.15	1	5/20/2019	RH			
25	24+93.9'LT	19.15	1	5/20/2019	RH			
25	24+94.8'LT	19.13	1	5/20/2019	RH			
25	24+98.2'LT	19.20	1	5/20/2019	RH			
25	24+99.7'LT	19.15	1	5/20/2019	RH			
25	25+04.6'LT	19.09	1	5/20/2019	RH			
25	25+06.7'LT	19.04	1	5/20/2019	RH			
25	25+08.8'LT	19.12	1	5/20/2019	RH			

[redacted] 84 [redacted]

202(26)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

Item No: 202(26)
Units: 3/15/2019
Project No: 2581600000
Project Name: KTN Front MS Modroon Struct Reconstruction
Calc by: Mason Huffman

Computations

Removal of Timber Pile and Pile Caps, 4-Foot Depth [redacted]

Estimate 20 Period 3/1/2019 - 3/15/2019

Est. #	Station	Each	Date	Inspector	
14	21+97, 17.8 RT	1	10/14/2018	Robby H	See attached sheets
14	21+94, 17.8 RT	1	10/14/2018	Robby H	
14	22+09, 17 RT	1	10/15/2018	Robby H	
14	22+13, 18 RT	1	10/15/2018	Robby H	
15	22+87, 19 RT	1	10/20/2018	Robby H	See attached sheets
15	22+77, 19 RT	1	10/20/2018	Robby H	
15	22+80, 19 RT	1	10/20/2018	Robby H	
15	23+04, 21 RT	1	10/21/2018	Robby H	
15	22+98, 16.5 RT	1	10/21/2018	Robby H	
15	23+35, 19' RT	1	10/25/2018	Robby H	
15	23+62, 22.5 RT	1	10/25/2018	Robby H	
15	23+48, 23 RT	1	10/25/2018	Robby H	
15	23+61, 21.5 RT	1	10/26/2018	Robby H	
15	23+81, 22.5 RT	1	10/26/2018	Robby H	
15	23+81, 23.5 RT	1	10/26/2018	Robby H	
15	23+86, 23 RT	1	10/26/2018	Robby H	
15	23+88, 25 RT	1	10/26/2018	Robby H	
15	24+07, 21' RT	1	10/27/2018	Robby H	
15	24+07, 22' RT	1	10/27/2018	Robby H	
15	24+14, 21' RT	1	10/27/2018	Robby H	
15	24+25, 20' RT	1	10/27/2018	Robby H	
15	24+34, 19' RT	1	10/27/2018	Robby H	
15	24+35.5, 20.5' RT	1	10/27/2018	Robby H	
15	24+70, 21' RT	1	10/30/2018	Robby H	
15	24+76, 21' RT	1	10/30/2018	Robby H	
15	24+78, 21' RT	1	10/30/2018	Robby H	
15	24+81, 21' RT	1	10/30/2018	Robby H	
15	24+82, 21' RT	1	10/30/2018	Robby H	
15	24+94, 19' RT	1	10/30/2018	Robby H	
15	24+94, 19' RT	1	10/30/2018	Robby H	
16	24+44.5, 20' RT	1	10/26/2018	Emma S	
16	24+45.5, 20' RT	1	10/26/2018	Emma S	
16	24+47, 20' RT	1	10/26/2018	Emma S	
16	24+52, 23' RT	1	10/26/2018	Emma S	
16	24+58 RT	1	10/26/2018	Emma S	
16	24+62 RT	1	10/26/2018	Emma S	
19	24+69.52'LT, Z 19.19'	1	2/25/2019	Robby H	
19	24+71.11'LT, Z 19.09'	1	2/25/2019	Robby H	
19	24+62.13'LT, Z 19.30'	1	2/25/2019	Robby H	
19	23+70.14'LT, Z 19.0'	1	2/27/2019	Robby H	
19	23+68.15'LT, Z 19.22'	1	2/27/2019	Robby H	
19	23+59.15'LT, Z 18.95'	1	2/27/2019	Robby H	
19	23+47.15'LT, Z 19.15'	1	2/27/2019	Robby H	
19	23+41.15'LT, Z 19.36'	1	2/27/2019	Robby H	
19	23+38.17'LT, Z 19.30'	1	2/27/2019	Robby H	
19	23+34.14'LT, Z 18.0'	1	2/27/2019	Robby H	
19	23+27.16'LT, Z 16.60'	1	2/27/2019	Robby H	
19	23+16.18'LT, Z 19.75'	1	2/27/2019	Robby H	
19	23+16.15'LT, Z 19.32'	1	2/27/2019	Robby H	
19	23+07.16'LT, Z 17.76'	1	2/27/2019	Robby H	
19	22+97.18'LT, Z 18.07'	1	2/27/2019	Robby H	
19	22+97.17'LT, Z 17.93'	1	2/28/2019	Robby H	
19	22+76.16'LT, Z 18.45'	1	2/28/2019	Robby H	
19	22+65.18'LT, Z 18.69'	1	2/28/2019	Robby H	
19	22+65.15'LT, Z 17.73'	1	2/28/2019	Robby H	
19	22+57.16'LT, Z 17.30'	1	2/28/2019	Robby H	
19	22+77.15'LT, Z 17.00'	1	2/28/2019	Robby H	
20	22+47.17'LT, Z 17.35'	1	3/1/2019	Robby H	
20	21+47.17'LT, Z 17.00'	1	3/1/2019	Robby H	
20	21+27.17'LT, Z 18.61'	1	3/2/2019	Robby H	
20	22+54.17'LT, Z 16.85'	1	3/2/2019	Robby H	
20	21+61.15'LT, Z 18.70'	1	3/4/2019	Robby H	

[redacted]

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D2	140

202(13) ABANDON AND FILL EXISTING PIPE

FROM		TO		
STATION	OFFSET	STATION	OFFSET	LENGTH
10+75	20 RT	10+75	59 RT	39
TOTAL				~~39~~

202(13) ABANDON AND FILL EXISTING PIPE

STATION	OFFSET	STATION	OFFSET	LENGTH	NEW TOTAL
OLD P-204 ~	S.104 to Bridge	1081 ABUT	LT	77	
16+86	22' LT	16+86	10' LT	12	
TOTAL = NEW	4	→	→	→	128

202(14) REMOVAL OF MAIL COLLECTION BOX

STATION	OFFSET
14+90	LT
26+59	RT
TOTAL	2

202(15) CLEAN AND INSPECT STORM DRAIN SYSTEM

DESCRIPTION	PIPE LENGTH (FT)	STRUCTURE
EXISTING STRUCTURE S302	-	X
EXISTING STRUCTURE S400	-	X
EXISTING PIPE BETWEEN S400 AND S401	109	
EXISTING STRUCTURE S401	-	X
EXISTING PIPE BETWEEN S401 AND S402	120	
EXISTING STRUCTURE S402	-	X
EXISTING PIPE BETWEEN S402 AND S403	179	
EXISTING STRUCTURE S403	-	X
EXISTING STRUCTURE S431	-	X
EXISTING STRUCTURE S411	-	X
EXISTING STRUCTURE S421	-	X
TOTAL	408	L.S. 8 ' ALL REQUIRED

202(18) REMOVAL OF STORM DRAIN STRUCTURE

SHEET	STATION	OFFSET
F1	11+34	26 LT
F1	13+68	19 LT ~~22 LT~~
F1	14+34	22 LT
F1	14+71	24 LT
F2	16+64	21 LT
F2	16+86	23 LT
F3	~~21+00~~ 21+03	21.6' RT ~~22 RT~~
F3	~~21+59~~ 21+57	21 LT
F3	~~22+16~~ 22+15	24 LT ~~21 LT~~
F3	~~22+48~~ 22+42	21 LT
F3	22+79	22 RT
F3	~~23+64~~ 23+62	19' LT ~~21 LT~~
F3	23+71	22 RT
F3	~~24+72~~ 24+69	22 LT ~~21 LT~~
F4	~~25+35~~ 25+33	22 RT
F4	~~27+80~~	~~9 RT~~ RECONSTRUCT EXISTING MANHOLE
F5	30+72	19 LT
F5	32+52	20 LT
F5	33+68	22 LT
F6	35+66	21 LT
F6	37+36	22 RT
TOTAL		~~21~~ 20

202(26) Removal of Timber Pile Caps, 4 Foot Depth
SEE ATTACHED SHEET FOR STATION AND TOTAL

202(26a) Price Adjusted Removal of Timber Pile & Pile Caps (STA 20+35 - 25+00)
SEE ATTACHED SHEET for Total And Stations

202 (26) TOTAL = 62

202(26a) Total = 84

202(28) REMOVAL OF CITY OWNED AMENITY

STATION	OFFSET	DESCRIPTION
12+21	21' LT	Litter Barrel
13+00	32' LT	Cigarette Disposal Container
14+75	LT	cigarette disposal container
17+21	LT	STORY BOARD
21+50	RT	Bollard with city sign
24+30	RT	city info Pole
26+40	RT	cigarette disposal container
28+80	LT	directional city sign

202(27) REMOVAL OF 7.5 INCH CONCRETE SLAB

DESCRIPTION	LOCATION	AREA (SY)
CONSTRUCT PIPE P100	WATER/FRONT INTERSECTION	~~9~~ 8
GRANT TO DOCK	STA 10+70 (LT) TO STA 14+43 (LT)	372
DOCK TO MISSION	STA 14+60 (LT) TO STA 17+05 (LT)	445
PARKING LOT	STA 40+02 (RT)	~~58~~ 66
NEW TOTAL		~~884~~ 778.37

202(28) REMOVAL OF CITY-OWNED AMENITY

STATION	OFFSET	DESCRIPTION
~~10+80~~ 10+90 ±	22' LT	LITTER BARREL
~~10+86~~ 10+92	22' LT	CIGARETTE DISPOSAL CONTAINER
14+93 14+75	LT	LITTER BARREL
16+75	LT	CIGARETTE DISPOSAL CONTAINER
16+76	LT	LITTER BARREL
17+~~47~~ 46	LT	CIGARETTE DISPOSAL CONTAINER
17+48 44	LT	LITTER BARREL
21+55	~~RT~~	LITTER BARREL No Litter Barrel present
22+15	RT	LITTER BARREL Did not locate to remove
26+99	RT	LITTER BARREL
~~27+52~~	~~LT~~	~~BENCH AND PLANTER~~ SEE COL
~~30+21~~	~~RT~~	~~CIGARETTE DISPOSAL CONTAINER~~ N/A
~~30+22~~	~~RT~~	~~LITTER BARREL~~ N/A
30+46	LT	LITTER BARREL
~~TOTAL~~		~~14~~
37+15 NEW TOTAL	LT =	CITY INFORMATIONAL SIGN ~~15~~ 19

501(10) CLASS A CONCRETE PAVEMENT, 7.5-INCHES THICK

DESCRIPTION	LOCATION	AREA (SY)
CONSTRUCT PIPE P100	WATER/FRONT INTERSECTION	9
~~GRANT TO DOCK~~	~~STA 10+70 (LT) TO STA 14+43 (LT)~~	~~141~~ NON-EXISTING
DOCK TO MISSION	STA 14+~~60~~ 53 (LT) TO STA 17+~~05~~ 03 (LT)	~~360~~ 435
PARKING LOT	STA 40+02 (RT)	~~58~~ 32.75
~~TOTAL~~		NEW TOTAL = ~~571~~ 542.75
	STA 16+75 4/RT	423

F1	BOP RT		47
F1	DOCK/Front Intersection		252.5
F1	14+45 LT		72

510(2) GRIND 7.5-INCH CONCRETE SLAB

SHEET	STATION	STATION	OFFSET	AREA (SF)
F1 AND F2	~~14+90~~ 15+00	~~16+70~~ 16+76	RT	~~2,900~~ 2119.2
NEW TOTAL =				2490.7 ~~2,900~~

583(2) UNDERMINING REPAIR VOID BACKFILL

SHEET	STATION	OFFSET	VOL (CY)
N12	17+10	LT	22
E5	30+50	LT	2
E5	30+70	LT	2
E5	30+96	RT	5
TOTAL			~~31~~ 13.53

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Keller Date 1/27/20

PLANS DEVELOPED BY:
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STATE OF ALASKA 49TH — Lance W. DeBernardi No. CE 9832 — 6/14/17 — REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

FILE Z:\project\1900.03 D01_SE Ketchikan Mill Steedman NTP 4\Civil\VACAD\1900.03-C1-D1.dwg | DATE 6/14/2017 10:08 | LAYOUT D2 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D3	140

603(23A) AND 603(23B) STORM DRAIN SERVICE

SERVICE NO.	STATION	OFFSET	TYPE
#1	12+19	LT	A
#2	13+00	LT	A
#3	13+26	LT	A
#4	14+77	LT	A
#5	14+94	LT	A
#6	15+26	LT	A
#7	16+00	LT	A
#8	16+38	LT	A
#9	16+78	LT	A
#10	29+03	LT	B
#11	30+20	LT	~~B~~ A
#12	~~32+57~~ 32+52	LT	~~B~~ A
~~#13~~	~~33+25~~	LT	~~B~~ NOT NEEDED
#14	33+64	LT	B
#15	37+58	LT	B
#16	38+~~06~~ 20	LT	B
#17	38+~~75~~ 86	LT	~~A1~~ (2)
#18	38+97	LT	A1
TOTAL TYPE A			~~11~~ 26
TOTAL TYPE B			~~7~~ 8

Service NO.	STATION	OFFSET	Type
#19	32+68	LT	A
#20	34+30	LT	B
#21	35+55	LT	(3) A's
#22	21+68	LT	A
#23	36+00	LT	(6) A's
#24	36+60	LT	B
#25	41+35	LT	B
#26	42+40	LT	B
#27	21+10	LT	B

604(8A) SANITARY SEWER MANHOLE FRAME AND COVER REPLACEMENT

STATION	OFFSET	DESCRIPTION	FRAME AND GRATE TYPE	REMARKS
10+52	6 LT	SANITARY SEWER	MH	CITY OF KETCHIKAN SUPPLIED FRAME AND MH LID
10+54	28 LT	SANITARY SEWER	MH	"
12+45	8 LT	SANITARY SEWER	MH	"
13+79	7 LT	SANITARY SEWER	MH	"
14+57	7 LT	SANITARY SEWER	MH	"
14+57	3 RT	SANITARY SEWER	MH	"
16+53	8 LT	SANITARY SEWER	MH	"
16+54	3 RT	SANITARY SEWER	MH	"
16+70	13 LT	SANITARY SEWER	MH	"
17+05	14 LT	SANITARY SEWER	MH	"
20+58	15 LT	SANITARY SEWER	MH	"
21+58	10 LT	SANITARY SEWER	MH	"
21+84	27 LT	SANITARY SEWER	MH	"
25+23	25 LT	SANITARY SEWER	MH	"
27+21	19 LT	SANITARY SEWER	MH	"
27+58	1 LT	SANITARY SEWER	MH	"
28+17	12 LT	SANITARY SEWER	MH	"
30+27	12 LT	SANITARY SEWER	MH	"
32+27	14 LT	SANITARY SEWER	MH	"
33+86	14 LT	SANITARY SEWER	MH	"
37+16	14 LT	SANITARY SEWER	MH	"
40+84	3 LT	SANITARY SEWER	MH	"
TOTAL		22		

604(8) STORM DRAIN STRUCTURE FRAME AND GRATE REPLACEMENT

STATION	OFFSET	DESCRIPTION	FRAME AND GRATE TYPE
10+49	33 LT	STORM DRAIN	TI
10+58	30 LT	STORM DRAIN	TI
27+56	24 LT	STORM DRAIN	~~CI - ADA COMPLIANT GRATE~~ NO REPLACEMENT WAS REQUIRED
TOTAL		~~3~~ 2	

604(12) ADJUSTMENT FOR ELECTRICAL Vents

22+50	23' RT	Adjustment of electrical vent in SIDEWALK
30+00	RT	Adjust electrical vent for A new sidewalk Grade
38+15	RT	Adjust electrical vent for new sidewalk grade
Total		3 C.O. #13

604(10) ADJUSTMENT EXISTING UTILITY VAULT

STATION	OFFSET	DESCRIPTION
10+43	13 RT	ELECTRIC
10+58	20 RT	GCI/TELE
10+65	21 LT	MANHOLE ACCESS TO PRV WATER VAULT
~~13+09~~	~~10 RT~~	~~ELECTRIC~~ DOES NOT EXIST
22+30	15 RT	GCI/TELE
22+37	16 RT	ELECTRIC
27+48	24 LT	GCI/TELE
27+53	19 LT	ELECTRIC
33+18	15 RT	GCI/TELE
33+25	16 RT	ELECTRIC
~~38+05~~	~~16 RT~~	~~GCI/TELE~~ NO ADJUSTMENT NEEDED
~~38+11~~	~~16 RT~~	~~ELECTRIC~~
NEW TOTAL		~~12~~ 14

604(10)	Adjust Utility Vault	
Station	OFFSET	Description
11+33.4 Lt		Electric
11+89 LT		
12+35.5 Lt		ELECTRIC
12+98.3 LT		ELECTRIC
13+65.1 Lt		ELECTRIC

608(3) ASPHALT SIDEWALK

STATION	STATION	OFFSET	AREA (SY)	DESCRIPTION
24+40	27+60	LT	346	ASPHALT SIDEWALK AT WHALE PARK
25+35	25+75	RT	29	APPROACH AT STA: 25+53.7
26+09	26+33	RT	6	APPROACH AT STA: 26+19.2
29+26	29+42	RT	11	APPROACH AT STA: 29+34.3
34+93	35+07	LT	~~2~~ 17	APPROACH AT STA: 35+00.0
38+40	38+55	LT	~~9~~ 24	APPROACH AT STA: 38+47.7
40+81	41+04	RT	~~14~~ 40	EAST STREET APPROACH
41+06	41+31	LT	~~20~~ 30	APPROACH AT STA: 41+18.7
TOTAL		NEW TOTAL	= ~~437~~ 620	
24+81	24+44	LT	82	Portion at Bawden St. intersection around curb Ramps
DOCK ST /	Totem Pole Parking Spot	LT	30	"Parking Spot next to Parnassus Books"
33+05 +/-	33+21 +/-	LT	9	NEW YORK Hotel
33+85 +/-	33+94 +/-	LT	8	Brown's Way
34+60 +/-	34+65 +/-	LT	.31	Between sidewalk and boardwalk Mtg. Brackets
35+70 +/-	36+10	RT	8	APPROACH at Station 35+90 (Salvation Army)
38+75 +/-	38+95 +/-	LT	27	Approach at 38+85.7 (Flower Lady's)
41+55 +/-	41+65 +/-	RT	3	Approach at University North Entrance
42+46 +/-	42+45 +/-	LT	.4	Patch along R.O.W. at fence

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

Project Engineer _____ Date 1/27/20

PLANS DEVELOPED BY:
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STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER
2/11/17

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

DRAFTED | DESIGNED | CHECKED | LAYOUT D3 | DATE 8/11/2017 15:37 | FILE Z:\project\1900_03 DOT_SE Ketchikan Mill Stedman NTP A\Civil\ACAD\1900_03-C1-D1.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/7/17	REVISE 608(1b) QUANTITY	ALASKA	NH-0902(038)	2017	D4	140

608(1a) CONCRETE SIDEWALK, 4 INCHES THICK

STATION	STATION	OFFSET	AREA (SY)
10+26	10+~~42~~ 48	LT	27
10+63	10+87	RT	16
10+72	14+35	LT	548
11+96	12+32	RT	18
14+71	16+85	LT	321
17+21	17+63	LT	69
20+33	21+67	LT	108
21+57	21+74	RT	27
21+99	23+82	RT	177
22+02	23+91	LT	236
24+29	25+41	RT	146
24+40	24+46	LT	7
24+54	24+67	LT	7
25+66	26+06	RT	37
26+32	29+21	RT	194
27+34	27+40	LT	4
27+51	27+59	LT	7
27+43	29+64	LT	251
29+47	30+99	RT	111
29+88	30+97	LT	110
32+23	33+02	LT	74
32+23	35+08	RT	209
33+28	33+76	LT	47
33+98	34+87	LT	107
35+13	35+27	LT	14
35+50	36+79	LT	119
35+50	35+77	RT	17
36+04	37+02	RT	85
37+05	37+96	LT	78
37+23	37+51	RT	14
37+84	37+93	RT	6
38+22	39+75	RT	102
38+18	38+34	LT	13
38+61	38+75	LT	11
38+97	39+74	LT	62
40+02	40+59	LT	49
40+20	40+56	RT	21
40+87	41+00	LT	12
41+06	42+17	RT	62
41+37	42+44	LT	92
TOTAL			~~3,615~~ 3,483

608(1b) CONCRETE SIDEWALK, 6 INCHES THICK

STATION	STATION	OFFSET	AREA (SY)
25+41	25+66	RT	34
26+06	26+32	RT	24
29+21	29+47	RT	16
29+64	29+88	LT	22
33+02	33+28	LT	27
33+76	33+98	LT	22
34+87	35+13	LT	25
35+08	35+50	RT	26
35+27	35+50	LT	23
35+77	36+04	RT	19
36+79	37+05	LT	23
37+51	37+84	RT	21
37+93	38+22	RT	19
37+96	38+18	LT	18
38+34	38+61	LT	22
38+75	38+97	LT	17
39+74	40+02	LT	23
39+75	40+20	RT	28
40+56	41+06	RT	30
40+59	40+87	LT	24
41+00	41+37	LT	33
TOTAL			~~497~~ 847

608 (1F) SIDEWALK RETAINING WALL

STATION	OFFSET	AMOUNT (EACH)
16+80	30'+/- / 50'+/- LT	1 Total

608(6) CURB RAMP

LOCATION/ STATION	QUADRANT	TYPE	RAMPS
FRONT/GRANT	NE	PARALLEL	1
FRONT/GRANT	SE	PARALLEL	1
FRONT/GRANT	SW	PARALLEL	1
11+95	LT	PERPENDICULAR	1
FRONT/DOCK	NE	PERPENDICULAR	2
FRONT/DOCK	SE	PERPENDICULAR	2
FRONT/MISSION	NE	PERPENDICULAR	1
FRONT/MISSION	SE	PERPENDICULAR	2
20+59	LT	PERPENDICULAR	1
MILL/MAIN	NE	~~PERPENDICULAR~~ (Parallel)	~~2~~ 1
MILL/MAIN	SE	PERPENDICULAR (Parallel)	1
MILL/MAIN	SW	PERPENDICULAR (Parallel)	1
MILL/MAIN	NW	PERPENDICULAR	~~2~~ 1
MILL/BAWDEN	NE	PERPENDICULAR	2
MILL/BAWDEN	SE	PARALLEL (Directional)	2
MILL/BAWDEN	SW	PARALLEL	1
MILL/BAWDEN	NW	PARALLEL	1
27+35	LT	CUSTOM	1
27+40	LT	CUSTOM	1
27+47	LT	~~PARALLEL~~ (CUSTOM)	1
27+55	LT	PERPENDICULAR	1
27+64	LT	PERPENDICULAR	1
30+05	RT	PERPENDICULAR	1
30+05	LT	PERPENDICULAR	1
34+69	RT	PERPENDICULAR	1
34+69	LT	PERPENDICULAR	1
STEDMAN/THOMAS	SW	UNIDIRECTIONAL	1
STEDMAN/THOMAS	NW	UNIDIRECTIONAL	1
TOTAL			~~35~~ 33

609(2) CURB AND GUTTER, TYPE 1

STATION	OFFSET	STATION	OFFSET	LENGTH
10+25.9	11.8 LT	10+47.7	32.4 LT	~~38~~ 42
10+63.4	28.3 RT	10+86.8	22.1 RT	26
30+32.6	22.2 LT	21+67.1	31.2 LT	143
20+50.9	22.5 RT	21+74.1	47.4 RT	142
21+98.9	39.8 RT	23+82.2	47.8 RT	209
22+02.1	31.0 LT	23+91.2	41.6 LT	214
24+29.3	51.6 RT	30+99.0	15.0 RT	677
24+45.6	63.3 LT	27+33.0	46.8 LT	442
26+80.5	44.0 LT	26+93.6	39.2 LT	14
27+00.9	20.5 LT	27+08.8	21.7 LT	8
27+38.1	65.5 LT	27+38.1	65.5 LT	17
27+42.0	83.4 LT	30+99.0	20.0 LT	419
32+22.4	16.0 RT	37+01.8	28.2 RT	488
32+22.8	20.5 LT	~~42+44.0~~ 42+56	22.7 LT	~~1022~~ 1060.4
37+23.4	26.8 RT	~~42~~+17.1	22.3 RT	499
~~TOTAL~~	NEW TOTAL		4425 ←	~~4,358~~

609(1) CURB, TYPE 1

STATION	OFFSET	STATION	OFFSET	LENGTH
10+72.4	43.4 LT	14+34.9	52.5 LT	410
11+95.8	29.9 RT	12+32.7	22.3 RT	37
14+70.8	60.8 LT	16+85.4	54.8 LT	294
TOTAL	←NEW→			~~741~~ 848
FRONT and GRANT 1081 - 17+21	LT/NORTH	10+48.3		4
MISSION/FRONT to Bridge	LT	17+63	LT	83
16+95 LT	REDONE portion due to 5-370 REVISIONS			5 (4.3)
20+55 RT	SIDEWALK BACKING CURB			AV ~~8.5~~ 8.5
26+00 RT	SIDEWALK BACKING CURB			36.8
27+64	LT	27+74 LT	(BACKING CURB @ Totem Pole)	10.0

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Early Kelly Date 1/17/20

PLANS DEVELOPED BY:
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49TH
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No. CE 9632
11/7/17
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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

FILE Z:\project\1900 03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\AGAD\1900 03-C1-D1.dwg | DATE 11/7/2017 14:43 | LAYOUT D4 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D5	140

615(1) STANDARD SIGN SUMMARY

SIGN #	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SF)	POST	EMBEDED DEPTH	SIGN FACING	615(2) REMOVE & RELOCATE	615(6) SALVAGE EXISTING	COMMENTS
1	KEEP RIGHT	10+12	RT	R4-7B	24	30	5.00	2.5 PST	4'-6"	SB		X	
	OBJECT MARKER (TYPE 1)			OM1-1	18	18	2.25	-	-	SB		X	
2	DO NOT ENTER	10+17	RT	R5-1	30	30	6.25	2.5 PST	4'-6"	EB		X	
	YIELD			R1-2	30	30	6.25	-	-	WB		X	
3	FRONT ST	10+19	LT	D3-1	24	8	1.33	2.5 PST	4'-6"	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
4	DO NOT ENTER	10+43	LT	R5-1	30	30	6.25	2.5 PST	4'-6"	WB		X	
	FRONT ST			D3-1	24	8	1.33	-	-	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	GRANT ST			D3-1	24	8	1.33	-	-	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	ONE WAY (LEFT ARROW)			R6-1L	36	12	3.00	-	-	SB		X	
	STOP			R1-1	30	30	6.25	-	-	NB		X	
5	DO NOT ENTER	10+63	RT	R5-1	30	30	6.25	2.5 PST	4'-6"	EB		X	
	PEDESTRIAN			W11-2	30	30	6.25	-	-	WB		X	
6	DO NOT ENTER	10+73	LT	R5-1	30	30	6.25	2.5 PST	4'-6"	WB		X	
	STOP			R1-1	30	30	6.25	-	-	EB		X	
7	PEDESTRIAN	10+92	LT	W11-2	30	30	6.25	2.5 PST	4'-6"	SB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2.00	-	-	SB		X	
8	NO RIGHT TURN	11+09	LT	R3-1	30	30	6.25	2.5 PST	4'-6"	SB		X	
9	END	11+22	LT	R3-9DP	30	12	2.50	2.5 PST	4'-6"	SB		X	
	TWO HR PARKING 8-5 THIS BLOCK			R7-108 CUSTOM	12	18	1.50	-	-	SB		X	
10	RESERVED PARKING HANDICAPPED	11+83	LT	R7-8 CUSTOM	12	18	1.50	2.5 PST	4'-6"	SB		X	
11	NO PARKING LOADING ZONE	~~12+16~~ 12+93	LT	R7P-106	12	18	1.50	2.5 PST	4'-6"	SB		X	See IWA #10 6/15/20 Revised Standard Sign Qty
12	NO PARKING BUS STOP	13+68	LT	R7-107A CUSTOM	12	16	1.33	2.5 PST	4'-6"	SB		X	
13	NO LEFT TURN	14+22	LT	R3-2	30	30	6.25	-	-	EB		X	ON MAST ARM
	NO RIGHT TURN			R3-1	30	30	6.25	-	-	EB		X	ON MAST ARM
	DOCK ST			D3-1	30	8	1.67	-	-	EB		X	ON MAST ARM
14	DO NOT ENTER	14+37	LT	R5-1	30	30	6.25	2.5 PST	4'-6"	WB		X	
	RIGHT TURN ON RED AFTER STOP			R10-17A CUSTOM	12	16	1.33	-	-	EB		X	
15	DO NOT ENTER	14+69	LT	R5-1	30	30	6.25	2.5 PST	4'-6"	WB		X	
	ONE WAY (RIGHT ARROW)			R6-1R	36	12	3.00	-	-	NB		X	
16	ONE WAY (RIGHT ARROW)	14+82	RT	R6-1R	36	12	3.00	-	-	WB		X	ON MAST ARM
	NO LEFT TURN			R3-2	30	30	6.25	-	-	WB		X	ON MAST ARM
	DOCK ST			~~D3-1~~	~~30~~	~~8~~	~~1.67~~	(See C.O. #10) -		WB		X	ON MAST ARM See CO# 10
17	NO LEFT TURN	15+00	LT	R3-2	30	30	6.25	2.5 PST	4'-6"	SB		X	
18	TWO HR PARKING 8-5 THIS BLOCK	15+58	LT	R7-108 CUSTOM	12	18	1.50	2.5 PST	4'-6"	WB		X	
19	NO PARKING BUS STOP	15+65	RT	R7-107A CUSTOM	12	16	1.33	2.5 PST	4'-6"	NB		X	
20	SPEED LIMIT 20	15+85	RT	R2-1	24	30	5.00	2.5 PST	4'-6"	NB		X	
21	DO NOT ENTER	16+18	RT	R5-1	30	30	6.25	2.5 PST	4'-6"	EB		X	
	NO LEFT TURN			R3-2	30	30	6.25	-	-	WB		X	
22	NO PARKING LOADING ZONE	16+41	LT	R7P-106	12	18	1.50	2.5 PST	4'-6"	SB		X	
23	DO NOT ENTER	16+47	RT	R5-1	30	30	6.25	2.5 PST	4'-6"	EB		X	
	STOP			R1-1	30	30	6.25	-	-	WB		X	
24	TSUNAMI EVACUATION ROUTE	16+53	RT	EM1-100	24	24	4.00	2.5 PST	4'-6"		X		
25	NO PEDESTRIAN CROSSING (SYMBOL)	16+73	LT	R9-3	30	30	6.25	2.5 PST	4'-6"	WB		X	
	NO PEDESTRIAN CROSSING			R9-3A	12	18	1.50	-	-	WB		X	
26	NO PEDESTRIAN CROSSING (SYMBOL)	16+78	RT	R9-3	30	30	6.25	2.5 PST	4'-6"	EB		X	
	NO PEDESTRIAN CROSSING			R9-3A	12	18	1.50	-	-	EB		X	
27	PEDESTRIAN	17+07	RT	W11-2	30	30	6.25	2.5 PST	4'-6"	NB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2.00	-	-	NB		X	
28	NO PARKING TAXI ZONE	17+41	LT	R7P-105	12	18	1.50	2.5 PST	4'-6"	SB		X	
	Snow Route Signs	32+97	RT										Mounted on Light Pole Furnished by State Installed by Secon
	Snow Route Signs	33+69	RT										
	Snow Route Signs	34+36	RT										
	Snow Route Signs	35+06	RT										
	Snow Route Signs	37+30	RT										

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Lilly Date 1/27/20

PLANS DEVELOPED BY:
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No. CE 9632
6/14/17
REGISTERED PROFESSIONAL ENGINEER

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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-C1-01.dwg | DATE 6/14/2017 10:08 | LAYOUT D5 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D6	140

615(1) STANDARD SIGN SUMMARY

SIGN #	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SF)	POST	EMBEDED DEPTH	SIGN FACING	615(2) REMOVE & RELOCATE	615(6) SALVAGE EXISTING	COMMENTS
	MISSION ST			D3-1	30	8	1.67	-	-	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	FRONT ST			D3-1	24	8	1.33	-	-	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
29	PEDESTRIAN	17+41	LT	W11-2	30	30	6.25	2.5 PST	4'-6"	SB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2.00	-	-	SB		X	
30	TWO HR PARKING 8-5 THIS BLOCK	17+97	LT	R7-108 CUSTOM	12	18	1.50	2.5 PST	4'-6"	SB		X	
31	FRONT ST	19+51	RT	D3-1	24	8	1.33	2.5 PST	4'-6"	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	MILL ST			D3-1	24	8	1.33	-	-	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	NO PEDESTRIAN CROSSING			R9-3	30	30	6.25	-	-	SB		X	
	PEDESTRIANS PROHIBITED			R5-10C	24	12	2.00	-	-	SB		X	
32	NO PARKING ANYTIME	19+62	LT	R7P-101	12	18	1.50	2.5 PST	4'-6"	EB		X	
33	NO PARKING LOADING ZONE	20+24	LT	R7P-106	12	18	1.50	2.5 PST	4'-6"	EB		X	
34	TWO HR PARKING 8-5 THIS BLOCK	21+24	LT	R7-108 CUSTOM	12	18	1.50	2.5 PST	4'-6"	EB		X	
	RESERVED PARKING HANDICAPPED			R7-8 CUSTOM	12	18	1.50	-	-	EB		X	
35	PEDESTRIAN	21+58	RT	W11-2	30	30	6.25	2.5 PST	4'-6"	WB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2.00	-	-	WB		X	
36	STOP	21+63	LT	R1-1	30	30	6.25	2.5 PST	4'-6"	NB		X	
	TWO HR PARKING 8-5 THIS BLOCK			R7-108 CUSTOM	12	18	1.50	-	-	NB		X	
37	STOP	22+01	RT	R1-1	30	30	6.25	2.5 PST	4'-6"	SB		X	
	MILL ST			D3-1	24	8	1.33	-	-	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	MAIN ST			D3-1	24	8	1.33	-	-	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
38	PEDESTRIAN	22+19	LT	W11-2	30	30	6.25	2.5 PST	4'-6"	EB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2.00	-	-	EB		X	
39	TWO HR PARKING 8-5 THIS BLOCK	22+29	LT	R7-108 CUSTOM	12	18	1.50	2.5 PST	4'-6"	EB		X	
40	LANE USE CONTROL	22+87	RT	R3-108B	30	30	6.25	2.5 PST	4'-6"	WB		X	
41	STOP	23+85	LT	R1-1	30	30	6.25	2.5 PST	4'-6"	NB		X	
	MILL ST			D3-1	24	8	1.22	-	-	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	BAWDEN ST			D3-1	30	8	1.67	-	-	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
42	STOP	24+31	RT	R1-1	30	30	6.25	2.5 PST	4'-6"	SB		X	
	MILL ST			D3-1	24	8	1.33	-	-	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	BAWDEN ST			~~D3-1~~	~~30~~	~~8~~	~~1.67~~	SEE C.O.# 10	-	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
43	PEDESTRIAN	24+62	RT	W11-2	30	30	6.25	-	-	WB		X	MOUNTED ON POLE
	DIAGONAL ARROW LEFT			W16-7P	24	12	2.00	-	-	WB		X	MOUNTED ON POLE
	BAWDEN STREET			D3-1	30	8	1.67	-	-	WB		X	ON MAST ARM
	LEFT TURN ONLY			R3-5L	30	36	7.50	-	-	WB		X	ON MAST ARM
44	PEDESTRIAN	24+72	LT	W11-2	30	30	6.25	2.5 PST	4'-6"	EB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2.00	-	-	EB		X	
45	TSUNAMI EVACUATION ROUTE	25+20	LT	EM1-100	24	24	4.00	2.5 PST	4'-6"		X		
46	SPEED LIMIT 20	25+32	RT	R2-1	24	30	5.00	2.5 PST	4'-6"	WB		X	
47	TWO HR PARKING 8-5 THIS BLOCK	25+67	LT	R7-108 CUSTOM	12	18	1.50	2.5 PST	4'-6"	EB		X	
48	TURN (RIGHT)	25+96	RT	W1-1R	30	30	6.25	2.5 PST	4'-6"	WB		X	
	ADVISORY SPEED (15 MPH)			W13-1P	18	18	2.25	-	-	WB		X	
	NO PARKING BUS STOP			R7-107A CUSTOM	12	16	1.33	-	-	WB		X	
49	NO PARKING MAIL DROP ONLY	26+61	RT	R7P-102 CUSTOM	12	18	1.50	2.5 PST	4'-6"	WB		X	
50	NO LEFT TURN	27+24	RT	R3-2	30	30	6.25	2.5 PST	4'-6"	WB		X	
51	TOTEM WAY	27+80	LT	D3-1	30	8	1.67	2.5 PST	4'-6"	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	STEDMAN ST			D3-1	36	8	2.00	-	-	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

Project Engineer _____ Date 1/27/20

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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

DRAFTED | CHECKED | DESIGNED | LAYOUT D6 | DATE 6/14/2017 10:08 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-C1-D1.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D7	140

615(1) STANDARD SIGN SUMMARY

SIGN #	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SF)	POST	EMBEDED DEPTH	SIGN FACING	615(2) REMOVE & RELOCATE	615(6) SALVAGE EXISTING	COMMENTS
52	ALASKA ROUTE MARKER (SYMBOL)	28+16	LT	M1-5	24	24	4.00	2.5 PST	4'-6"	SB		X	
	TWO HR PARKING 8-5 MON-FRI			R7-108 CUSTOM	12	18	1.50	-	-	SB		X	
53	ALASKA ROUTE MARKER (SYMBOL)	29+01	RT	M1-5	24	24	4.00	2.5 PST	4'-6"	NB		X	
54	SPEED LIMIT 20	29+44	LT	R2-1	24	30	5.00	2.5 PST	4'-6"	SB		X	
55	PEDESTRIAN	29+78	RT	W11-2	30	30	6.25	2.5 PST	4'-6"	NB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2.00	-	-	NB			
56	NO PARKING LOADING ZONE	30+13	LT	R7P-106	12	18	1.50	2.5 PST	4'-6"	SB		X	
57	PEDESTRIAN	30+26	LT	W11-2	30	30	6.25	2.5 PST	4'-6"	SB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2.00	-	-	SB			
58	NO PARKING 20 MIN LOADING & TOUR BUS ZONE	32+22	LT	R7P-102 CUSTOM	12	18	1.50	2.5 PST	4'-6"	SB		X	
59	BROWN'S WAY	33+96	LT	D3-1	36	8	2.00	2.5 PST	4'-6"	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND. USE OF APOSTROPHE IS ACCEPTABLE SINCE IT WOULD NOT BE CONFUSING.
	NO PARKING LOADING ZONE			R7P-106	12	18	1.50	-	-	SB		X	
	TWO HR PARKING 8-5 MON-FRI			R7-108 CUSTOM	12	18	1.50	-	-	SB		X	
60	PEDESTRIAN	34+42	RT	W11-2	30	30	6.25	2.5 PST	4'-6"	NB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2	-	-	NB		X	
61	PEDESTRIAN	34+93	LT	W11-2	30	30	6.25	2.5 PST	4'-6"	SB		X	
	DIAGONAL ARROW LEFT			W16-7P	24	12	2	-	-	SB		X	
62	24 HR PARKING MON-FRI	35+06	RT	R7-108 CUSTOM	12	18	1.50	LUMINAIRE	-	NB		X	
63	RESERVED PARKING HANDICAPPED	35+47	LT	R7-8 CUSTOM	12	18	1.50	2.5 PST	4'-6"	SB		X	
64	24 HR PARKING MON-FRI	36+52	RT	R7-108 CUSTOM	12	18	1.50	LUMINAIRE	-	NB		X	
65	THOMAS ST	37+25	RT	D3-1	30	8	1.67	2.5 PST	4'-6"	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	STEDMAN ST			D3-1	36	8	2.00	-	-	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	WEIGHT LIMIT TANDEM GROUP 28K LBS			R12-100	24	36	6.00	-	-	EB		X	
	STOP			R1-1	30	30	6.25	-	-	WB		X	
66	NO PARKING BUS STOP	37+50	RT	R7-107A CUSTOM	12	16	1.33	2.5 PST	4'-6"	NB		X	
67	24 HR PARKING MON-FRI	38+49	RT	R7-108 CUSTOM	12	18	1.50	LUMINAIRE	4'-6"	NB		X	
68	INMAN ST	39+03	RT	D3-1	24	8	1.33	2.5 PST	4'-6"	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	NO PARKING LOADING ZONE			R7P-106 CUSTOM	12	18	1.50	-	-	NB		X	
69	24 HR PARKING MON-FRI	39+77	RT	R7-108 CUSTOM	12	18	1.50	LUMINAIRE	4'-6"	NB		X	
70	STEDMAN ST	41+05	RT	D3-1	36	8	2.00	2.5 PST	4'-6"	EB/WB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	EAST ST			D3-1	24	8	1.33	-	-	NB/SB		X	USE 4" UC/3" LC C-FONT, WHITE LEGEND ON GREEN BACKGROUND
	STOP			R1-1	30	30	6.25	-	-	WB		X	
71	LEASH LAW AREA		RT		12	18	1.50	LUMINAIRE	-	SB		X	
72	TSUNAMI EVACUATION ROUTE	41+26	RT	EM1-100	24	24	4.00	2.5 PST	4'-6"	NB	X		
	STANDARD ARROW (BLUE)			M6-1	21	15	2.19	-	-	NB	X		
73	SPEED LIMIT 30	41+82	RT	R2-1	24	30	5.00	LUMINAIRE	-	NB		X	
	24 HR PARKING MON-FRI			R7-108 CUSTOM	12	18	1.50	-	-	NB		X	
74	NO PARKING BUS STOP	42+40	LT	R7-107A CUSTOM	12	16	1.33	2.5 PST	4'-6"	SB		X	
75	SPEED LIMIT 20			R2-1	24	30	5.00	2.5 PST	4'-6"	SB		X	
TOTAL AREA SHEETS D4, D5 AND D6 =							458	SF					

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

PLANS DEVELOPED BY:
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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-C1-D1.dwg | DATE 6/14/2017 10:08 | LAYOUT D7 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D8	140

625(1) PIPE HAND RAIL

SHEET	STATION	OFFSET	STATION	OFFSET	LENGTH (LF)	NOTES
E15 AND F11	25+30.3	30.3 RT	25+40.3	30.3 RT	10	TYPE A MOUNTING DETAIL
E15 AND F12	30+49.5	27.3 LT	30+79.5	27.3 LT	30	TYPE B MOUNTING DETAIL
E15 AND F13	37+22.6	27.7 RT	37+42.6	27.7 RT	20	TYPE A MOUNTING DETAIL
TOTAL					60	

627(6) FIRE HYDRANT RELOCATION

FROM		TO	
STATION	OFFSET	STATION	OFFSET
12+21.3	27.8 LT	12+21.0	21.9 LT
14+01.4	24.1 LT	14+01.6	20.9 LT
~~TOTAL~~		~~2~~	

(+) 26+90 RT

(+) 1.0 (Total) 3.0

STATION	OFFSET
10+87	24' LT
13+72	22' LT

626(3) ADJUST SANITARY SEWER CLEANOUT

STATION	OFFSET
11+43	24 LT
11+81	25 LT
12+79	23 LT
13+24	21 LT
13+51	21 LT
16+95	48 LT
NEW TOTAL	~~6~~ 8

627(10) ADJUSTMENT OF VALVE BOX

STATION	OFFSET	TYPE A	TYPE B	TYPE C
10+57	14 RT			X
10+58	24 LT			X
10+60	11 RT			X
10+63	32 LT			X
10+65	30 LT			X
10+65	13 LT			X
11+39	18 LT			X
11+41	18 LT			X
11+41	30 LT			X
11+80	17 LT			X
11+82	32 LT			X
12+21	18 LT			X
12+42	17 LT			X
12+42	29 LT		X	
12+96	16 LT			X
12+98	16 LT			X
13+00	15 LT			X
13+01	24 LT		X	
13+06	16 LT			X
13+50	25 LT		X	
13+50	15 LT			X
13+64	14 LT			X
13+66	28 LT			X
14+02	14 LT			X
14+22	14 RT			X
14+34	13 RT			X
14+38	14 RT			X
14+47	11 RT			X
14+49	13 RT			X

627(10) ADJUSTMENT OF VALVE BOX

STATION	OFFSET	TYPE A	TYPE B	TYPE C
14+49	14 LT			X
14+50	15 LT			X
14+52	14 LT			X
14+76	14 RT			X
14+82	14 RT			X
16+68	14 RT			X
16+74	13 RT			X
16+81	14 RT			X
17+13	25 LT			X
17+14	44 LT			X
17+15	24 LT			X
17+69	12 RT			X
18+24	12 RT			X
18+31	10 RT			X
18+47	19 LT			X
18+49	10 RT			X
19+90	12 RT			X
20+79	22 RT	X		
20+98	23 RT	X		
21+64	25 RT		X	
21+66	23 RT		X	
21+95	26 RT	X		
21+97	29 RT	X		
21+99	26 RT	X		
23+36	~~23~~ ~~28~~ RT		X	
23+90	26 RT	X		
23+92	29 RT	X		
23+94	26 RT	X		
25+06	29 RT		X	

627(10) ADJUSTMENT OF VALVE BOX

STATION	OFFSET	TYPE A	TYPE B	TYPE C
25+50	29 RT		X	
25+60	27 RT		X	
26+91	21 RT		X	
27+35	6 RT	X		
27+38	8 RT	X		
27+59	42 LT	X		
27+59	42 LT	X		
27+74	30 LT		X	
28+07	14 LT	X		
28+10	14 LT	X		
28+31	24 LT		X	
28+75	26 LT		X	
29+40	27 LT		X	
29+46	27 LT		X	
29+49	27 LT		X	
30+03	27 LT		X	
30+43	26 LT		X	
30+46	28 LT		X	
32+34	27 LT		X	
32+45	25 LT		X	
32+53	22 RT		X	
32+74	28 LT		X	
33+18	27 LT		X	
33+35	27 LT		X	
33+49	27 LT		X	
33+53	27 LT		X	
33+89	27 LT		X	
34+52	27 LT		X	
34+63	28 LT		X	

627(10) ADJUSTMENT OF VALVE BOX

STATION	OFFSET	TYPE A	TYPE B	TYPE C
35+08	27 LT		X	
35+37	27 LT		X	
35+66	24 RT		X	
35+68	27 LT		X	
35+70	24 LT		X	
35+79	27 LT		X	
35+98	26 LT		X	
36+29	25 LT		X	
36+52	26 LT		X	
36+56	25 LT		X	
37+07	24 RT	X		
37+08	24 LT		X	
37+08	26 RT	X		
37+10	25 LT		X	
37+22	26 LT		X	
37+38	26 LT		X	
37+63	26 RT		X	
37+69	25 LT		X	
37+80	23 LT		X	
38+11	24 LT		X	
38+16	24 LT		X	
38+25	25 LT		X	
38+62	22 LT		X	
39+07	24 LT		X	
39+09	24 LT		X	
39+58	25 LT		X	
40+02	23 LT		X	
40+64	21 LT		X	
40+67	19 LT	X		

627(10) ADJUSTMENT OF VALVE BOX

STATION	OFFSET	TYPE A	TYPE B	TYPE C
41+03	16 LT	X		
41+10	17 LT	X		
41+91	16 LT	X		
41+94	16 LT	X		
TOTAL	~~120~~ 127			

16+93	12' LT
16+97	12' LT
11+12	℄
20+82	RT
20+76.5	RT
20+75.5	RT
21+73	RT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Emily Ashley Date 1/27/20

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STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
1/14/17
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

DRAFTED | CHECKED | DESIGNED | LAYOUT D8 | DATE 6/14/2017 10:08

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP ACtivities\ACAD\1900.03-C1-D1.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D9	140

642(4), 642(5), 642(7), 642(9)

MONUMENTS

POINT #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET	642(4) SET PRIMARY MONUMENT (EACH)	642(5) SET SECONDARY MONUMENT (EACH)	642(7) REPLACE EXISTING WITH SECONDARY MONUMENT (EACH)	642(9) REFERENCE EXISTING MONUMENT (EACH)
101	338149.385	646326.06	BC_3.25"	27+79.40	29.32' LT	1			1
1244	337882.563	645873.84	ALCAP1.5"_LS6269	22+70.28	29.70' LT		1		1
1245	337682.041	645656.831	ALCAP2.5"_LS7213_L9A-1_ROW	19+89.80	30.53' RT			1	1
1246	337922.29	646036.401	ALCAP2"_LS7213_L10A1_ROW	24+26.33	30.72' RT		1		1
1247	337982.969	646123.629	ALCAP2"_LS3491_L10A1	25+32.59	30.86' RT		1		1
1253	338152.328	646331.43	TACK_LEADPLUG	27+82.28	33.83' LT		1		1
1254	338146.334	646338.413	BC1"	27+88.31	30.92' LT			1	1
1255	338136.519	646349.718	BC1"	27+98.71	27.74' LT			1	1
1256	338127.341	646359.496	BC1"	28+08.41	26.23' LT			1	1
1257	338127.084	646360.594	BC1"	28+09.17	26.75' LT			1	1
1258	338089.233	646399.531	BC1"	28+63.39	23.85' LT			1	1
1259	338078.232	646412.188	BC1"	28+80.16	23.89' LT			1	1
1260	338038.188	646458.311	BC1"	29+41.24	24.07' LT			1	1
1261	338015.08	646489.406	ALCAP2"_LS3491_L7_L8A_ROW	29+79.86	27.12' LT		1		1
1262	337984.335	646524.928	ALCAP2"_LS3491_L8a_L9A_ROW	30+26.84	27.33' LT		1		1
1263	337971.293	646467.864	BC2.5"LS6269_WCC7_ATS1322	29+92.44	20.03' RT			1	1
1264	337985.609	646519.43	BC1"	30+21.86	24.67' LT			1	1
1265	337987.633	646521.276	TACK_LEADPLUG	30+21.92	27.41' LT		1		1
1270	337504.866	647077.543	TACK_LEADPLUG	37+58.61	27.93' LT		1		1
1271	337536.18	647041.055	ALCAP3.25"_LS3248_S437_BLK28	37+10.53	27.76' LT	1			1
1272	337530.512	647043.034	BC1"	37+15.73	24.77' LT			1	1
1273	337567.889	647001.703	BC1"	36+60.02	26.02' LT			1	1
1274	337586.802	646978.559	BC1"	36+30.14	25.19' LT			1	1
1275	337609.915	646955.19	TACK	35+97.35	27.40' LT		1		1
1276	337625.017	646934.196	BC1"	35+71.59	25.10' LT		1		1
1277	337643.259	646913.29	BC1"	35+43.85	25.23' LT			1	1
1278	337650.745	646904.611	BC1"	35+32.38	25.22' LT			1	1
1279	337652.219	646907.379	BC1.5"_L9A_L9	35+33.51	28.14' LT		1		1
1280	337652.608	646907.182	TACK_LEADPLUG	35+33.11	28.31' LT		1		1
1283	337667.123	646890.613	TACK_LEADPLUG	35+11.08	28.45' LT		1		1
1284	337667.838	646885.229	BC1"	35+06.54	25.47' LT			1	1
1285	337683.602	646866.76	BC1"	34+82.26	25.32' LT			1	1
1286	337697.228	646855.565	BC1.5"_L7C_L7B	34+64.88	28.31' LT		1		1
1287	337697.922	646850.285	BC1"	34+60.43	25.39' LT			1	1
1288	337744.497	646800.468	BC1"	33+92.14	27.92' LT			1	1
1289	337744.927	646800.797	TACK_LEADPLUG	33+92.11	28.46' LT		1		1
1290	337749.1	646791.151	BC1"	33+82.10	25.26' LT			1	1
1291	337761.619	646776.983	BC1"	33+63.19	25.37' LT			1	1

642(4), 642(5), 642(7), 642(9)

MONUMENTS

POINT #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET	642(4) SET PRIMARY MONUMENT (EACH)	642(5) SET SECONDARY MONUMENT (EACH)	642(7) REPLACE EXISTING WITH SECONDARY MONUMENT (EACH)	642(9) REFERENCE EXISTING MONUMENT (EACH)
1292	337774.147	646762.581	BC1"	33+44.10	25.33' LT			1	1
1293	337778.448	646762.156	TACK_LEADPLUG	33+40.95	28.29' LT		1		1
1294	337788.685	646750.404	TACK_LEADPLUG	33+25.37	28.27' LT		1		1
1295	337809.738	646721.6	BC1"	32+89.82	25.18' LT			1	1
1296	337852.425	646676.754	BC1.5"	32+27.97	27.83' LT			1	1
1297	337379.326	647142.527	BC3.25"_COE	38+89.87	24.56' RT	1			1
1299	337377.476	647138.832	BC3.25"_COE	38+88.28	28.38' RT	1			1
1300	337352.121	647170.355	MAG/WASH_LS7331	39+28.54	26.98' RT		1		1
1302	337366.71	647238.575	TACK_LEADPLUG	39+71.78	27.78' LT		1		1
1314	337281.571	647356.933	ALCAP2"_LS7331_LF-1_ROW	41+20.42	28.40' LT		1		1
1319	337297.414	647333.219	ALCAP1.5"_LS3248	40+91.35	28.43' LT		1		1
1340	337799.658	645860.032	FND_HOLE_0.15X0.25_CONC	22+11.52	30.39' RT			1	1
1351	337290.866	647244.847	PLASCAP	40+23.24	28.29' RT		1		1
TOTAL						~~4~~ 9	~~22~~ 35	~~25~~ 26	~~70~~ ~~51~~ see back-up summary

639(3) APPROACH

STATION	OFFSET	WIDTH
25+53.7	RT	14
26+19.2	RT	14
29+34.3	RT	14
~~29+76.4~~	~~LT~~	~~12~~ ELIMINATED
33+15.0	LT	14
33+87.1	LT	10
35+00.0	LT	14
35+28.7	RT	30
35+38.7	LT	11
35+90.9	RT	15
36+92.3	LT	14
37+62.2	RT	14
38+01.5	RT	MATCH EXISTING
38+06.6	LT	10
38+47.7	LT	15
38+85.7	LT	10
39+87.9	LT	15
39+97.8	RT	34
40+80.9	RT	39
40+72.8	LT	15
41+18.7	LT	24
41+60 (University)	RT	10
TOTAL		21

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

Emily Kelley Date 1/27/20

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STATE OF ALASKA - 49TH - Lance W. DeBernardi - No. CE 9632 - 1/14/17 - REGISTERED PROFESSIONAL ENGINEER

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6860 GLACIER HIGHWAY, JUNEAU, AK 99811
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KTN: FRONT, MILL AND STEDMAN
STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NFP 4\Civil\ACAD\1900.03-C1-01.dwg | DATE 6/14/2017 10:08 | LAYOUT D9 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D10	140

DRAFTED | CHECKED | DESIGNED | LAYOUT D10 | DATE 6/14/2017 10:08 | FILE Z:\project\1900_03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900_03-C1-D1.dwg

660(18) ADJUST JUNCTION BOX

STATION	OFFSET	UTILITY/J-BOX TYPE
14+21	28 LT	TRAFFIC/2
14+24	28 LT	TRAFFIC/2
14+26	29 LT	ELECTRICAL/1A
14+73	29 LT	ELECTRICAL/1A
14+76	28 LT	TRAFFIC/2
14+81	28 LT	TRAFFIC/2
14+82	26 LT	ELECTRICAL/1A
16+88	35 LT	ELECTRICAL/2
22+30	27 RT	LIGHTING/1A
22+95	27 RT	LIGHTING/1A
23+63	27 RT	LIGHTING/1A
23+81	36 LT	LIGHTING/1A
23+84	39 LT	TRAFFIC/2
24+47	44 LT	LIGHTING/1A
24+48	51 LT	TRAFFIC/2
24+66	26 RT	LIGHTING/1A
24+87	28 LT	LIGHTING/1A
25+00	27 RT	LIGHTING/1A
25+68	27 RT	LIGHTING/1A
~~26+32~~ 38	28 RT	LIGHTING/1A
26+97	21 RT	LIGHTING/1A
26+98	19 LT	LIGHTING/1A
27+46	21 RT	LIGHTING/1A
27+96	20 RT	LIGHTING/1A
28+74	19 RT	LIGHTING/1A
29+48	19 RT	LIGHTING/1A
30+23	19 RT	LIGHTING/1A
32+90	28 LT	ELECTRIC/1A (KPU=NOW REINSTALLED)
32+97	25 RT	LIGHTING/1A
33+67	26 RT	LIGHTING/1A
34+36	26 RT	LIGHTING/1A
35+06	26 RT	LIGHTING/1A
35+62	27 RT	LIGHTING/1A
35+72	27 LT	TELEPHONE/1A (KPU TEMP REPLACED W/ ALLEY)
36+49	27 RT	LIGHTING/1A
37+30	26 RT	LIGHTING/1A
37+86	25 RT	LIGHTING/1A
38+49	26 RT	LIGHTING/1A
39+13	26 RT	LIGHTING/1A
39+77	25 RT	LIGHTING/1A
40+41	25 RT	LIGHTING/1A
41+06	25 RT	LIGHTING/1A
41+82	24 RT	LIGHTING/1A
TOTAL	~~43~~	
14+27	28 LT	LIGHTING/1A
19+70	(INSIDE BANK) RT	LIGHTING/1A
20+38	29' RT	
29+98	RT	

660 19(A) c/o #3 Junction Box, TYPE 1A

← KPU Removed & Replaced

660 19(A) c/o #3 Junction Box, TYPE 1A

STATION	OFFSET
32+25	RT
39+20	RT

NEW Total = 16

660(19B) JUNCTION BOX, TYPE 2

STATION	OFFSET	UTILITY
28+57	24 LT	TELEPHONE
28+60	24 LT	ELECTRICAL
~~40+20~~	~~34 RT~~	~~ELECTRICAL~~ NOT RAISED
~~41+90~~	~~25 LT~~	~~ELECTRICAL~~ KPU ELIMINATED
41+99	26 LT	TELEPHONE
TOTAL	~~5~~ 4	
19+70	RT	ELECTRICAL

661(3) LOAD CENTER, TYPE 2/C.O. #4

STATION	OFFSET	TOTAL
38+15	30.8' RT	1 EACH

660(16) 2" CONDUIT

STATION	OFFSET	QUANTITY
32+29 to 35+01	RT	272 L.F.
35+01 to 36+95	RT	193 L.F.
36+95 to 41+82	RT	484 L.F.
		Total = 949

660(16A) 2" RIGID CONDUIT

STATION	OFFSET	Quantity
29+27 to 29+59 RT	RT	32 L.F.
37+20	RT	40 L.F.
38+00	RT	34 L.F.
40+80.9	RT	40 L.F.
TOTAL		114 L.F.

660(17)	Street Lighting Conductors	C0#4
STATION	OFFSET	Quantity
32+22 to 41+80	RT	1
	TOTAL =	1

660(18)	Street Lighting Repair	See → C0#14
STATION	OFFSET	Quantity
32+95	RT	1
37+90	RT	1
41+75	RT	1

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

By Emily Kelly Date 1/27/20

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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D11	140

603(9-18) 18 INCH CORRUGATED ALUMINUM PIPE

PIPE ID	DIA (IN.)	LENGTH (FT)	FROM	TO	SLOPE	REMARKS
P344	18	~~7.00~~ 6.5	EX OUTLET	S340		MATCH THE LINE AND GRADE OF THE EXISTING PIPE TO BE REMOVED.
P345	18	7.00	S340	EX INLET		
P403	18	~~5.00~~ 6.33		OUTFALL	4.95%	SEE SHEET E8
~~P411~~	~~18~~	~~5.00~~		~~OUTFALL~~	~~2.40%~~	~~SEE SHEET E8~~ N/A
P418	18	9.00	S418	EX PIPE		MATCH THE LINE AND GRADE OF THE EXISTING PIPE TO BE REMOVED. SEE SHEET E9
TOTAL		~~33~~ (27.33) 29				

603(21-6) 6 INCH CORRUGATED POLYETHYLENE PIPE

PIPE ID	DIA (IN.)	LENGTH (FT)	FROM	TO	SLOPE	REMARKS
P303	6	~~4.04~~ 6.0	S303	S301	1.30%	
P304	6	~~84.98~~ 86.5	S304	S303	0.50%	
P305	6	~~6.23~~ 7.3	ROOF DRAIN 1	S304		
P311	6	~~0.42~~ 4.2	S311	S310	0.77%	
P312	6	~~42.61~~ 39.6	S312	S311	4.49%	
P313	6	~~3.95~~ 7.3	ROOF DRAIN 3	S312		
P314	6	~~25.76~~ 27.5	S314	S312	4.60%	
P315	6	~~8.02~~ 12.3	ROOF DRAIN 2	S314		
P342	6	~~22.99~~ 23.5	S342	S341	0.54%	
P343	6	~~7.88~~ 3.2	ROOF DRAIN 4	S342		
P361	6	~~4.07~~ 3.3	ROOF DRAIN 5	S369		
P362	6	~~8.36~~ 11.4	S362	S360	9.48%	
P363	6	~~27.06~~ 28.7	S363	S362	0.50%	
P364	6	~~2.92~~ 1.8	ROOF DRAIN 8	S363		
P365	6	~~37.47~~ 35.1	S365	S363	0.52%	
P366	6	~~3.37~~ 1.7	ROOF DRAIN 7	S365		
~~P367~~	6	~~74.43~~ 22.99	S367 ~~369~~	S365 ~~341~~	0.50%	OMITTED S367 to S365/ROCK ENCOUNTERED (S-369 to S-341)
P368	6	~~3.86~~ 3.3	ROOF DRAIN 6	S367		
P369	6	~~32.09~~ 31.7	S369	S367	0.51%	
P370	6	~~19.01~~ 20	S370	OUTFALL		OUTLET THROUGH SEAWALL. MATCH THE LINE AND GRADE OF THE EXISTING PIPE TO BE REMOVED.
P371	6	~~24.76~~ 25.5	ROOF DRAIN 9	S370		
TOTAL		~~451~~ 403				

603(21-8) 8 INCH CORRUGATED POLYETHYLENE PIPE

PIPE ID	DIA (IN.)	LENGTH (FT)	FROM	TO	SLOPE	REMARKS
P100	8	~~16.78~~ 9.5	S100	S101	1.26%	CONNECT TO S101. INVERT TO BE 0.1' HIGHER THAN EXISTING STRUCTURE OUTFALL
P300	8	~~7.22~~ 8.2	S300	S301	2.37%	
P301	8	~~57.66~~ 57.	S301	S302	1.99%	
P310	8	~~20.67~~ 21.5	S310	OUTFALL		OUTLET THROUGH SEAWALL. MATCH THE LINE AND GRADE OF THE EXISTING PIPE TO BE REMOVED.
P316	8	~~16.23~~ 10.9	EX PIPE	S310	0.57%	
P320	8	~~23.27~~ 23.2	S320	OUTFALL		OUTLET THROUGH SEAWALL. MATCH THE LINE AND GRADE OF THE EXISTING PIPE TO BE REMOVED
P341	8	~~8.84~~ 6-	S341	S340	0.97%	
P360	8	41.03 43.25	S360	S361	4.87%	
TOTAL		~~192~~ 207.30				

603(21-12) 12 INCH CORRUGATED POLYETHYLENE PIPE

PIPE ID	DIA (IN.)	LENGTH (FT)	FROM	TO	SLOPE	REMARKS
P210	12	~~137.28~~ 135	S211	S210	0.89%	
TOTAL		NEW ~~138~~ 198				
P201	Pipe I.D.	Length (FT) 62.00	S202	S201		PLANNED as 18" 12" WAS REQUIRED to fit around WATER LINE
N/A		1.	S213	N/A		TIE-IN

603(21-18) 18 INCH CORRUGATED POLYETHYLENE PIPE

PIPE ID	DIA (IN.)	LENGTH (FT)	FROM	TO	SLOPE	REMARKS
~~P201~~	~~18~~	~~53.24~~	~~S201~~	~~S202~~	~~1.01%~~	P201 under 2', WAS required to fit around WATER LINE
P202	18	~~81.14~~ 73.	S202	S204	1.13%	
P204	18	~~82.85~~ 45.99	S204	~~S205~~ S215	0.86%	See New plans, Per Pipe Jacking CO. #6 Deleted per CO #6
~~P205~~	~~18~~	~~12.78~~	~~S205~~	~~BEND~~	~~0.93%~~	~~SEE SHEET E7~~ Deleted per CO #6
~~P206~~	~~18~~	~~40.24~~	~~BEND~~	~~OUTFALL~~	Deleted	~~SEE SHEET E7~~ See C.O #6
P211	18	~~71.86~~ 74.	S211	S212	0.46%	
P212	18	~~85.33~~ 86.	S212	S213	0.32%	
P213	18	~~63.29~~ 62.80	S213	S214	0.81%	
P214	18	113.11	S214	S215	1.28%	
~~P215~~	~~18~~	~~88.98~~	~~S215~~	~~OUTFALL~~		~~SEE SHEET E7~~ CO #6
P220	18	~~9.01~~ 12.20	S220	EX PIPE	0.84%	
P400	18	~~109.12~~ 111.50	S400	S401	0.46%	
P401	18	119.~~72~~	S401	S402	0.40%	
P404	18	35.00	S404	S403	5.08%	
P410	18	~~40.57~~ 40.40	S410	S411	13.77%	
P419	18	~~40.50~~ 43.00	S419	S418	0.53%	
P420	18	~~41.13~~ 43.00	S420	S421	5.36%	
~~P430A~~	~~18~~	~~11.3~~	~~S42A~~	~~S42D~~	~~5.82%~~	
P430	18	~~35.88~~ 80	S430	S431	7.82%	
TOTAL		~~1123~~ 906				

603(22-18) 18 INCH LINER PIPE

PIPE ID	DIA (IN.)	LENGTH (FT)	REMARKS
P027	18	~~25.00~~ 26.5	
P032	18	27.00	
TOTAL		~~52~~ 53.50	

603(21-24) 24 INCH CORRUGATED POLYETHYLENE PIPE

PIPE ID	DIA (IN.)	LENGTH (FT)	FROM	TO	SLOPE	REMARKS
P215	24	88.98	S215	OUTFALL		SEE SHEET E7
TOTAL		~~89~~ 93.0				

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Signature Date 1/27/20

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SUMMARY TABLES

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-C1-D1.dwg | LAYOUT D11 | DATE 6/14/2017 10:06 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D12	140

604(1A) STORM DRAIN MANHOLE, TYPE I

STRUCTURE ID	STATION	OFFSET	CASTING ELEVATION	CASTING TYPE	INVERT ELEVATION	REMARKS
S202	22+05.32	19.00 LT	20.52	GI	NE 14.40 SW 14.30	ADA COMPLIANT GRATE
S204	21+24.18	19.00 LT	20.26	SCI	NE ~~13.43~~ 13.79 △ SW ~~13.28~~ 13.89	
~~S205~~	~~20+39.19~~	~~18.28 LT~~	~~21.08~~	~~SC~~	~~NE 12.60~~ ~~SW 12.50~~	SEE CO #6 ELIMINATED Existing Plan sheet Attached
S211	24+36.16	23 ~~24.66~~ RT	20.88	SCI	SW 16.91 NE 17.41	SHIFTED LEFT TOWARDS ℄ BEGIN. 1
S212	23+64.34	22.32 RT	20.54	SCI	NE 16.60 SW 16.55	
S213	22+79.01	21.50 RT	20.52	SCI	NE 16.29 SW 16.24	
S214	22+15.72	21.50 RT	20.23	SCI	NE 15.76 SW 15.66 S 15.94	
S215	21+02.61	21.62 RT	20.25	SCI	SW ~~14.16~~ 13.42 NE 14.26 N13S2 △	
S301	11+34.08	25.65 LT	32.50	SC	NW 29.80 SW 29.90 NE 29.90	
S310	13+68.33	18.41 LT	26.07	HCFI	SW 18.77 SE 18.85 NE 24.10	SEE SHEET E11
S340	14+62.00	17.59 LT	24.07	SC	E 21.13 NE 16.01 SW 15.91	SEE SHEET E11
S341	14+69.14	22.80 LT	23.76	HCFI	W 21.18 NE 21.28	
~~S401~~	~~27+79.53~~	~~9.20 RT~~	~~21.77~~	~~SC~~	~~SE 12.91~~ W 12.96	NOT replaced, CO'd by PE
TOTAL	~~13~~ 12 △					

604(5) INLET, TYPE A

STRUCTURE ID	STATION	OFFSET	CASTING ELEVATION	CASTING TYPE	INVERT ELEVATION	REMARKS
S100	WATER'S EDGE OF INTERSECTION 10+75.10	~~21.08 RT~~	~~31.37~~	~~GI~~	~~NW 26.87~~	~~ADA COMPLIANT GRATE~~
S201	22+58.56	19.00 LT	20.22	SCI	SW 14.90	
S210	25+73.39	21.04 RT	21.36	SCI	SW 18.60	
S220	24+69.78	12.00 LT	20.85	SCI	N 17.68	
S300	11+33.46	18.46 LT	32.23	HCFI	NE 30.00	
S320	14+34.14	22.23 LT	24.33	HCFI	W 21.13	
S360	16+64.87	18.50 LT	23.03	HCFI	SW 20.40 NE 20.57	
S370	16+86.20	22.62 LT	22.88	HCFI	S 21.57 NE 21.67	ADA COMPLIANT GRATE
S404	30+71.59	19.00 LT	20.60	SCI	S 17.27	
S410	33+68.13	19.00 LT	21.13	SCI	SW 16.49	
S418	37+35.81	21.50 RT	27.07	SCI	NE 23.85 SW 23.75	
S419	37+35.81	19.00 LT	27.24	SCI	SW 24.05	
S420	35+51.81	19.00 LT	21.45	SCI	SW 17.39	
~~S430~~	~~32+52.24~~	~~19.00 LT~~	20.78	SCI	SW 16.75	
TOTAL	~~14~~ 15					

604(1D) STORM DRAIN STRUCTURE, TYPE 20

STRUCTURE ID	STATION	OFFSET	CASTING ELEVATION	CASTING TYPE	INVERT ELEVATION	REMARKS
S303	11+34.23	29.69 LT	32.56	SC	SW 29.92 SE 30.02	CONNECT TO EXISTING 4" IRON PIPE
S304	12+19.21	28.91 LT	32.77	SC	NE 30.54 NW 30.44	
S311	13+68.45	24.83 LT	26.63	SC	SW 24.13 NW 24.23	
S312	13+25.84	25.58 LT	28.52	SC	NW 26.20 SE 26.10 NE 26.20	
S314	13+00.09	26.04 LT	29.85	SC	NE 27.44 SE 27.34	
S342	14+69.12	45.78 LT	24.33	SC	SE 21.49 SW 21.39	
S362	16+64.79	26.86 LT	23.71	SC	SW 21.22 NW 21.32	
S363	16+37.73	26.61 LT	24.02	SC	NW 21.55 SE 21.45 NE 21.55	
S365	16+00.27	26.27 LT	24.59	SC	NE 21.84 SE 21.74 NW 21.84	
S367	15+25.84	25.60 LT	24.57	SC	SE 22.21 NW 22.31 NE 22.31	
S369	14+93.75	25.31 LT	24.47	SC	SE 22.47 NE 22.57	
TOTAL	11					

604(3A) RECONSTRUCT EXISTING STORM DRAIN STRUCTURE

STRUCTURE ID	STATION	OFFSET	CASTING ELEVATION	CASTING TYPE	INVERT ELEVATION	REMARKS
~~S101~~	~~10+58.36~~	~~19.94 RT~~	~~31.33~~	~~SC~~	~~SE 26.70~~	~~NO ADJUSTMENT NEEDED~~
S302	10+76.44	27.25 LT	31.57	FI	SE 28.73	ADA COMPLIANT GRATE
S361	16+73.74	21.56 RT	23.15		NE 18.55	RE-USE EXISTING FRAME AND GRATE
~~S400~~	~~26+84.42~~	~~41.54 LT~~	~~MATCH EX~~	~~SCI~~	E ~~13.44~~	~~NO ADJUSTMENT NEEDED~~
S402	29+03.74	15.50 RT	21.04	SCI	NW 12.45 SE 12.40	
S403	30+83.27	14.00 RT	20.78	SCI	N 15.65 NW 11.70 SW 9.82	
S411	33+75.52	20.89 RT	21.04	SCI	NE 11.32 SW 11.16	
S421	35+62.43	20.73 RT	21.29	SCI	NE 15.35	
S431	32+50.65	16.84 RT	20.66	SCI	NE 14.18	RE-USE EXISTING FRAME AND GRATE
TOTAL				9		
S401	27+79.53	9.2 RT				

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
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STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
8/11/17
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SUMMARY TABLES

DRAFTED | CHECKED | DESIGNED | LAYOUT D12 | DATE 8/11/2017 15:37 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NIP 4\Civil\AGAD\1900.03-C1-D1.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	D13	140

670(1) PAINTED TRAFFIC MARKINGS

PAINTED CURB SUMMARY

BEGIN		END		TYPE / COLOR			
STATION	OFFSET	STATION	OFFSET	WHITE (LF)	YELLOW (LF)	BLUE (LF)	DASHED YELLOW (LF)
10+26	LT	10+41	LT		15		
10+47	LT	10+50	LT		10		
10+91	LT	11+40	LT	49			
11+75	LT	12+15	LT			40	
12+15	LT	13+00	LT	85			
13+65	LT	14+00	LT	35			
14+00	LT	14+10	LT			10	
14+10	LT	14+20	LT		10		
14+23	LT	14+40	LT		20		
14+41	LT	14+35	LT		15		
14+70	LT	14+66	LT		30		
14+66	LT	14+90	LT		30		
14+94	LT	15+25	LT		31		
16+30	LT	16+75	LT	45			
16+90	LT	16+86	LT		30		
17+21	LT	17+17	LT		30		
17+19	LT	17+29	LT		15		
17+33	LT	17+63	LT		30		
17+63	LT	18+00	LT	37			
18+59	LT	20+33	LT		174		
20+33	LT	20+57	LT	24			
20+91	LT	21+24	LT			33	
21+24	LT	21+60	LT		36		
21+66	LT	21+69	LT		15		
22+00	LT	22+04	LT		10		
22+09	LT	22+50	LT		41		

670(1) PAINTED TRAFFIC MARKINGS CONT'D

PAINTED CURB SUMMARY

BEGIN		END		TYPE / COLOR			
STATION	OFFSET	STATION	OFFSET	WHITE (LF)	YELLOW (LF)	BLUE (LF)	DASHED YELLOW (LF)
23+37	LT	23+75	LT		38		
23+83	LT	23+93	LT		25		
24+44	LT	24+39	LT		40		
24+41	LT	24+58	LT		20		
24+62	LT	25+04	LT		42		
25+04	LT	25+43	LT	39			
26+73	LT	27+63	LT				90
27+67	LT	27+85	LT				18
29+49	LT	29+82	LT		33		
30+35	LT	30+99	LT	64			
30+99	LT	32+23	LT				124
32+23	LT	33+02	LT	79			
33+98	LT	34+47	LT	49			
36+05	LT	36+50	LT	45			
36+50	LT	36+79	LT		29		
37+00	LT	37+72	LT		72		
38+18	LT	38+40	LT		22		
39+74	LT	39+80	LT		6		
39+95	LT	40+02	LT		7		
40+59	LT	40+65	LT		6		
40+80	LT	41+07	LT		27		
41+31	LT	41+41	LT		10		
42+11	LT	42+44	LT	33			
10+87	RT	11+40	RT				53
11+40	RT	12+20	RT	90			
12+20	RT	14+22	RT				202

670(1) PAINTED TRAFFIC MARKINGS CONT'D

PAINTED CURB SUMMARY

BEGIN		END		TYPE / COLOR			
STATION	OFFSET	STATION	OFFSET	WHITE (LF)	YELLOW (LF)	BLUE (LF)	DASHED YELLOW (LF)
21+54	RT	21+70	RT		16		
21+73	RT	21+76	RT		20		
21+97	RT	22+00	RT		20		
22+03	RT	23+76	RT				173
23+80	RT	23+84	RT		15		
24+28	RT	24+56	RT		60		
24+61	RT	25+41	RT				80
25+61	RT	25+67	RT		6		
25+67	RT	26+00	RT	33			
26+00	RT	26+12	RT		12		
26+12	RT	26+26	RT	14			
26+26	RT	29+21	RT				295
29+47	RT	29+97	RT				50
30+11	RT	33+37	RT				326
33+66	RT	34+47	RT				81
35+44	RT	35+83	RT		39		
35+98	RT	36+04	RT		6		
36+69	RT	36+96	RT		27		
37+29	RT	37+51	RT	22			
37+84	RT	38+24	RT		40		
38+75	RT	39+09	RT	34			
39+60	RT	39+81	RT		21		
40+15	RT	40+34	RT		19		
40+52	RT	40+61	RT		9		
41+00	RT	41+33	RT		33		
SUBTOTAL				777	1262	83	746
TOTAL				**1 (LUMP SUM)**			

670(13) INLAID METHYL METHACRYLATE PAVEMENT MARKINGS

BEGIN		END		ROADWAY PAVEMENT STRIPING SUMMARY							REMARKS
STATION	OFFSET	STATION	OFFSET	4" YELLOW STRIPE (LF)	4" WHITE SKIP STRIPE (LF)	4" WHITE STRIPE (LF)	8" WHITE STRIPE (LF)	18" YELLOW STRIPE (LF)	18" WHITE STRIPE (LF)	24" WHITE STRIPE (LF)	
10+15	LT / RT	42+44	LT / RT	5788	865	1985	291	60	55	1353	SEE H-SHEETS FOR LOCATIONS
SUBTOTAL 670(13)				5788	865	1985	291	60	55	1353	
TOTAL 670(13)				**1 (LUMP SUM)**							

670(9A)	Removal of Pavement Markings
	See IWA #17

670(1) PAINTED TRAFFIC MARKINGS CONT'D

SYMBOL / LETTERS

STATION	OFFSET	TYPE	COLOR	SYMBOL / LETTERS
11+95	LT	HANDICAP PARKING	BLUE / WHITE	1
21+11	LT	HANDICAP PARKING	BLUE / WHITE	1
10+15 to 42+44	LT/RT	SEE H SHEETS (ARROWS & ONLY)	WHITE	6
TOTAL		**1 (LUMP SUM)**		

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Date 1/27/20

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STATE OF ALASKA 49TH
Lance W. DeBernardi
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2/18/11
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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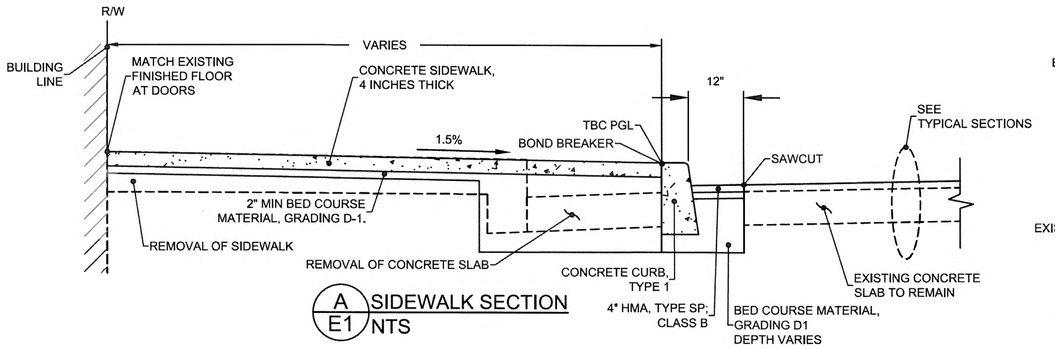
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

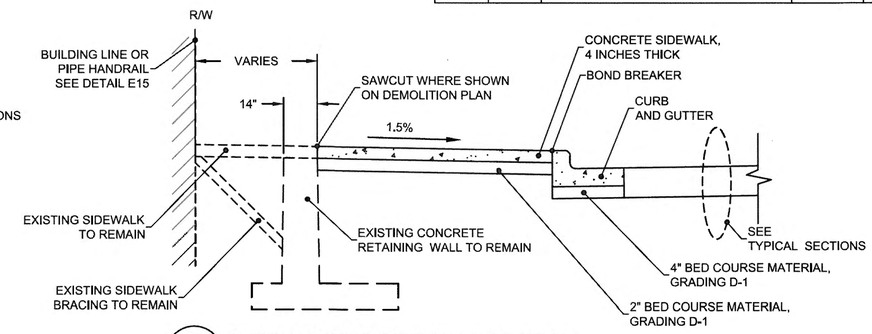
SUMMARY TABLES

DRAFTED | CHECKED | DESIGNED | LAYOUT D13 | DATE 10/6/2017 | FILE Z:\project\1900.03 DOT SE Ketchikan Mill Stedman NTP 4\Civil\AKA01\1900.03-C1-D1.dwg 10/6/2017 16:21

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	E1	140



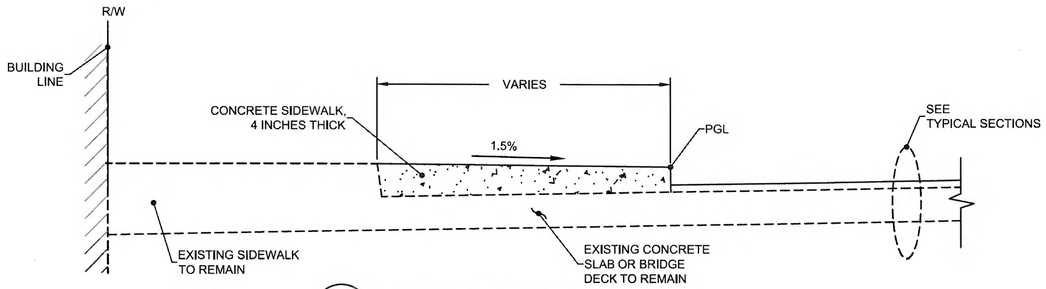
A/E1 SIDEWALK SECTION NTS



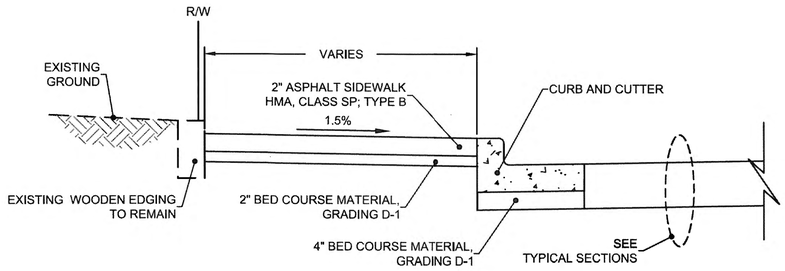
D/E1 OVERHANGING SIDEWALK SECTION NTS

SHEET NOTES:

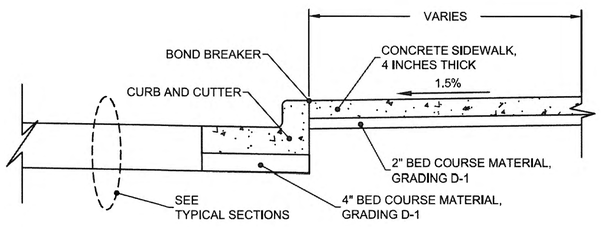
1. SEE G SHEETS FOR CURB, CURB AND GUTTER TYPES AND LOCATIONS, SIDEWALK WIDTHS AND EDGE OF PAVEMENT PROFILES.
2. MAXIMUM SIDEWALK CROSS SLOPE IS 1.5%.
3. SEE SHEET E6 FOR ADDITIONAL SIDEWALK DETAILS.
4. CONSTRUCT CONCRETE SIDEWALK 6" THICK AT DRIVEWAYS PER STANDARD DRAWING I-21.15.
5. PLACE 4" BED COURSE MATERIAL, GRADING D-1 WHERE EXISTING BED COURSE HAS BEEN COMPLETELY REMOVED DUE TO STORM DRAIN OR OTHER IMPROVEMENTS. ALL OTHER CASES, AFTER REMOVAL OF EXISTING SIDEWALK, ADD BED COURSE MATERIAL, GRADING D-1 AS NECESSARY TO ESTABLISH BOTTOM OF SIDEWALK GRADE.



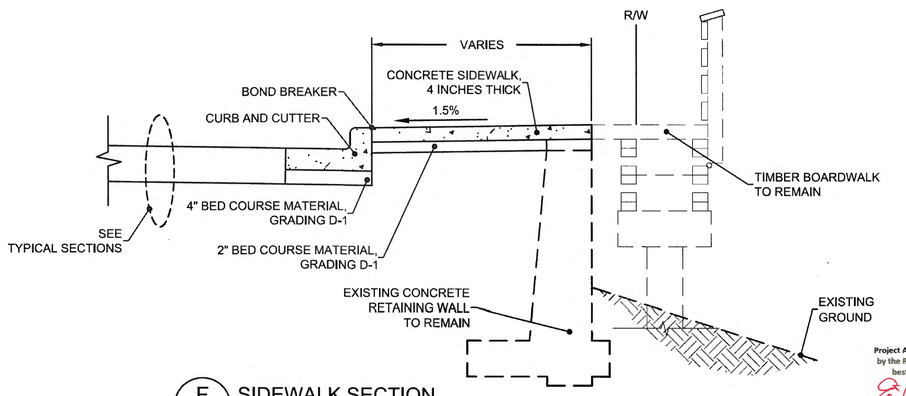
B/E1 SIDEWALK SECTION NTS



E/E1 SIDEWALK SECTION NTS



C/E1 SIDEWALK SECTION NTS



F/E1 SIDEWALK SECTION NTS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Date 1/27/20

PLANS DEVELOPED BY:
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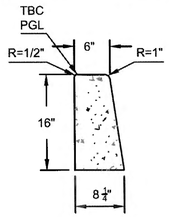
KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

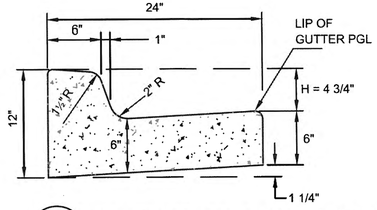
SIDEWALK SECTION DETAILS

DRAFTED | CHECKED | DESIGNED | LAYOUT E1 | DATE 8/16/2017 11:36 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-E-Details.dwg

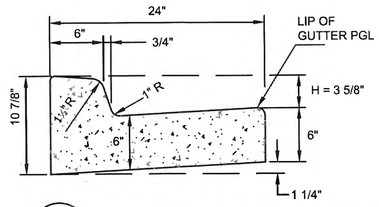
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	E2	140



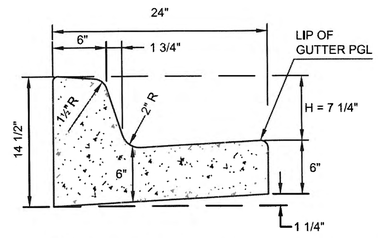
A / E2 CONCRETE CURB, TYPE 1
NTS



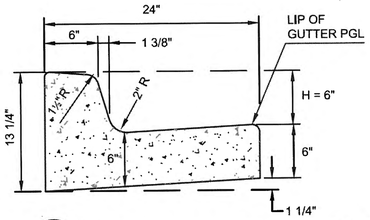
B / E2 STANDARD CURB AND GUTTER (H = 4 3/4")
AREA = 1.26 FT²



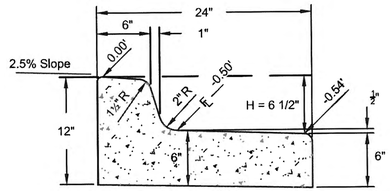
B1 / E2 MODIFIED STANDARD CURB AND GUTTER (H = 3 5/8")
AREA = 1.20 FT²



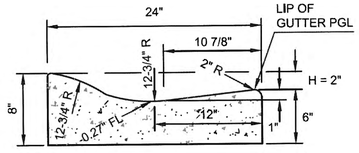
B2 / E2 MODIFIED STANDARD CURB AND GUTTER (H = 7 1/4")
AREA = 1.40 FT²



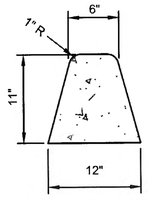
B3 / E2 MODIFIED STANDARD CURB AND GUTTER (H = 6")
AREA = 1.33 FT²



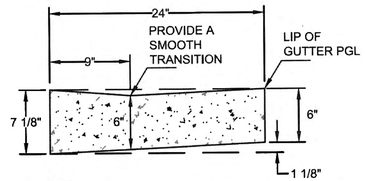
C / E2 SPILL CURB AND GUTTER (H = 6 1/2")
AREA = 1.28 FT²



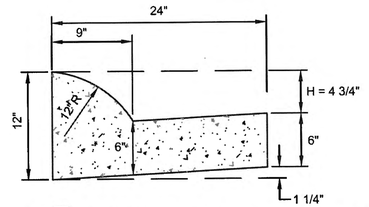
D / E2 MODIFIED MOUNTABLE CURB AND GUTTER (H = 2")
AREA = 0.96 FT²



E / E2 ADA CURB
NTS



F / E2 ADA CURB AND GUTTER (H = 0")
AREA = 1.04 FT²



G / E2 EXPRESSWAY CURB AND GUTTER (H = 4 3/4")
AREA = 1.25 FT²

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

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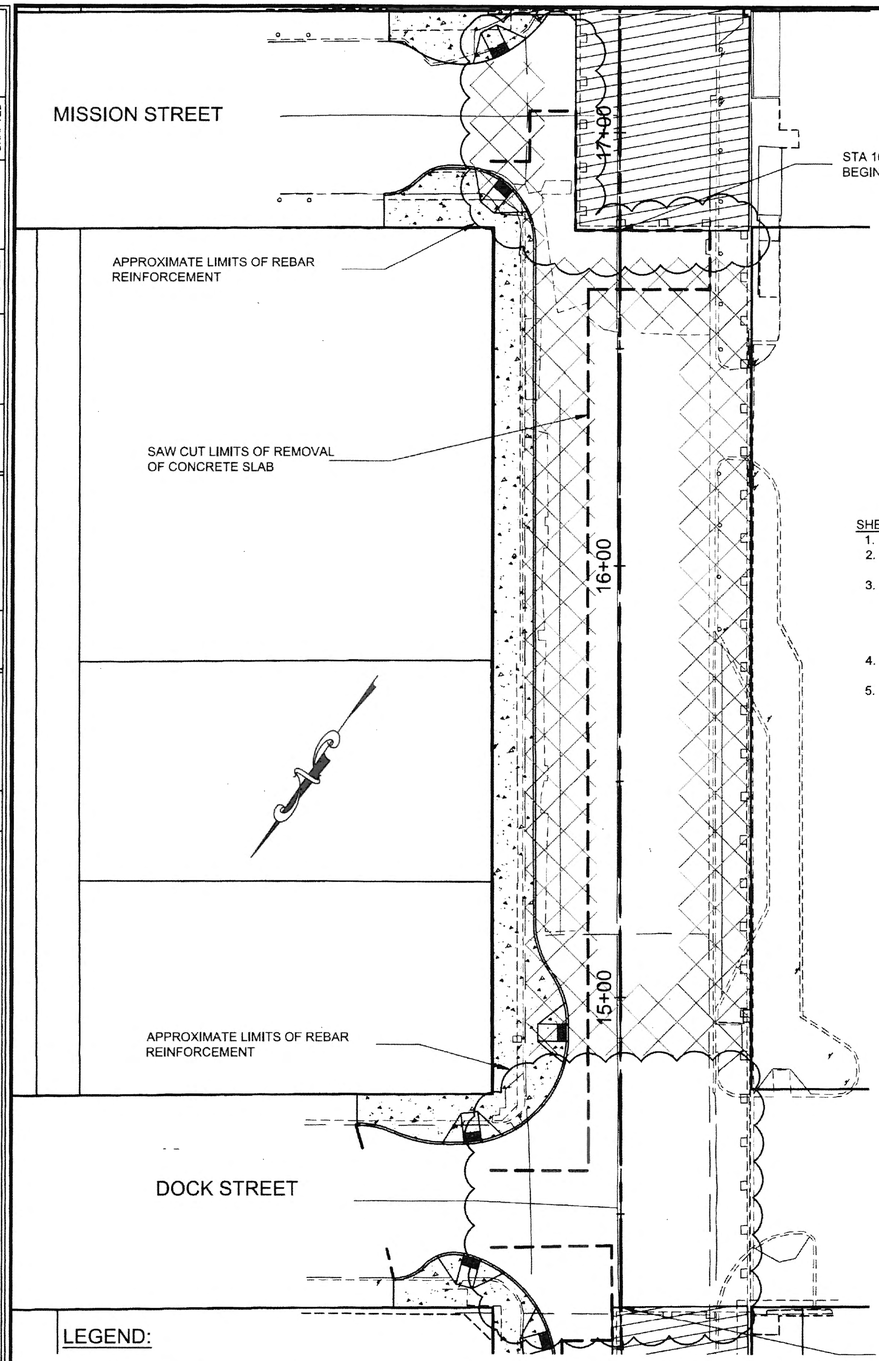
KTN: FRONT, MILL AND STEDMAN
STREETS RECONSTRUCTION
PROJECT #Z68160000

CURB AND CURB AND GUTTER SECTION DETAILS

DRAFTED | CHECKED | DESIGNED | LAYOUT E2 | DATE 6/14/2017 10:18 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-E-Details.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/7/17	STATION RANGE REVISED	ALASKA	NH-0902(038)	2017	E3	140



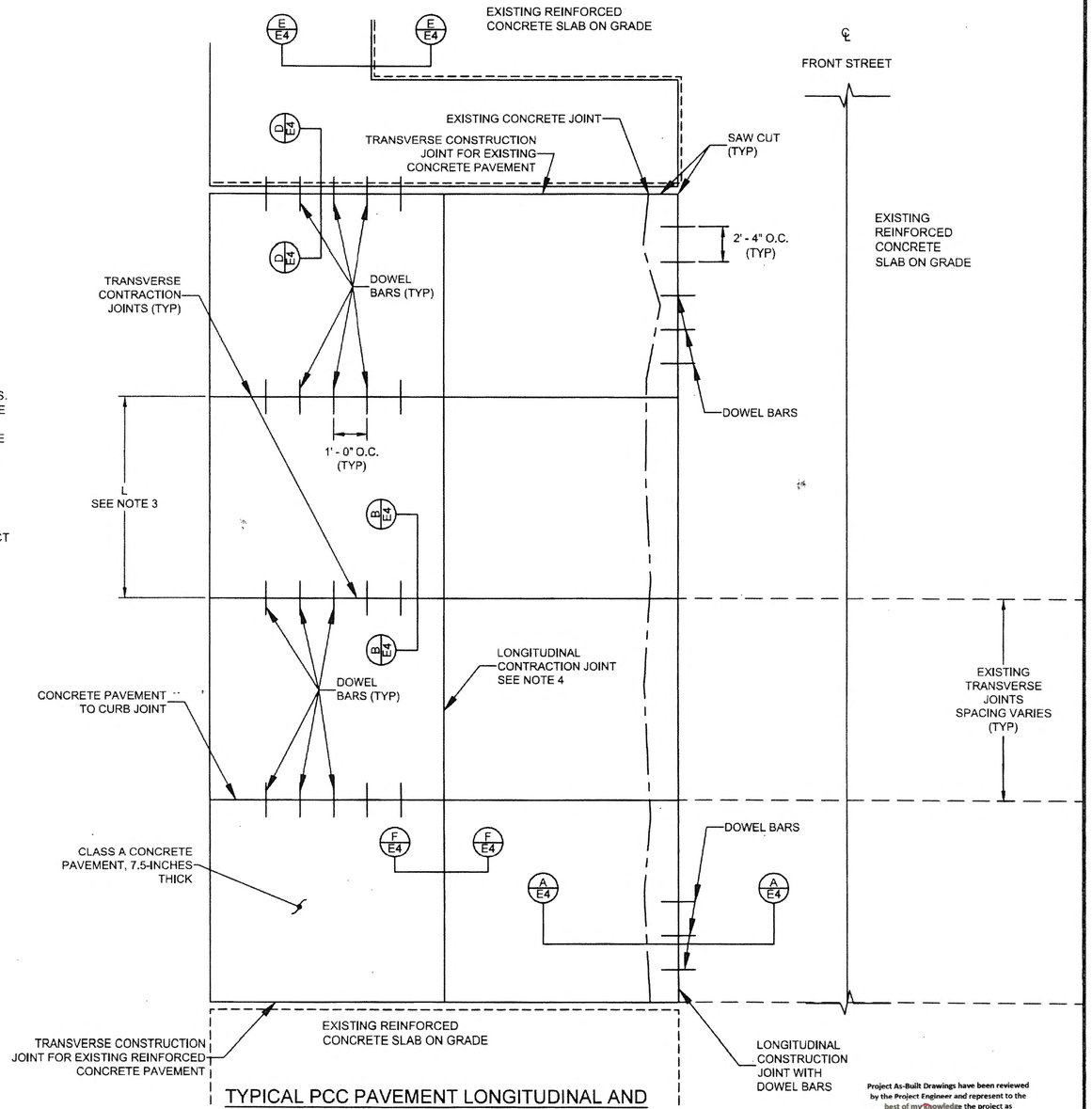
SHEET NOTES:

1. PROVIDE JOINTS AS SHOWN ON THE PLANS.
2. MATCH NEW CONCRETE PAVEMENT TO THE EXISTING JOINTS.
3. KEEP SLABS AS SQUARE AS POSSIBLE. USE A MINIMUM TRANSVERSE CONTRACTION JOINT SPACING OF 10 FEET TO A MAXIMUM OF 14 FEET TO AVOID ODD SHAPED OR LONG NARROW SLABS.
4. LONGITUDINAL CONTRACTION JOINT SPACING SHALL NOT EXCEED 12.5 FEET.
5. ALL TRANSVERSE JOINTS SHALL INTERSECT THE CURB PERPENDICULARLY.

LEGEND:

- EXISTING 4" x 4" - 4/4 WWF
- APPROXIMATE LIMITS OF REBAR REINFORCEMENT
- SAW CUT

PLAN VIEW
STA 14+60 LT TO 17+05 LT
N.T.S.



TYPICAL PCC PAVEMENT LONGITUDINAL AND TRANSVERSE JOINT AND DOWEL BAR LAYOUT
NTS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE _____ Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
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CERT. OF AUTH. NO.
AECC111

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
11/17
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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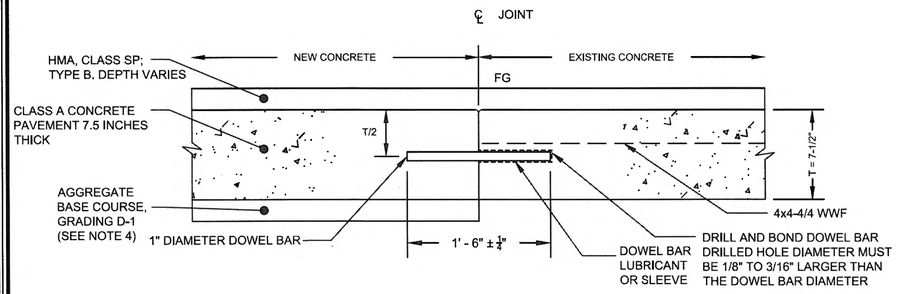
KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

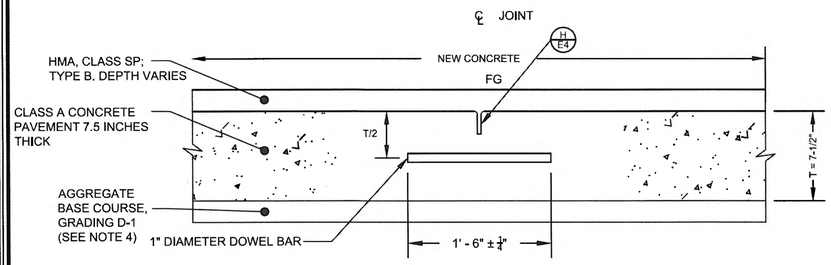
PCC PAVEMENT JOINT DETAILS

FILE Z:\Project\1900.03 DOT SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-E-Details.dwg | DATE 11/7/2017 14:54 | LAYOUT E3 | DESIGNED | CHECKED | DRAFTED

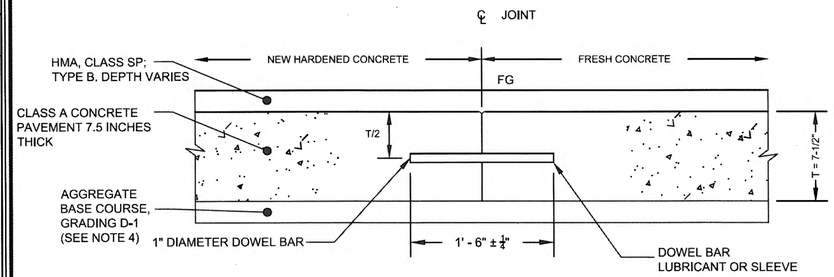
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	E4	140



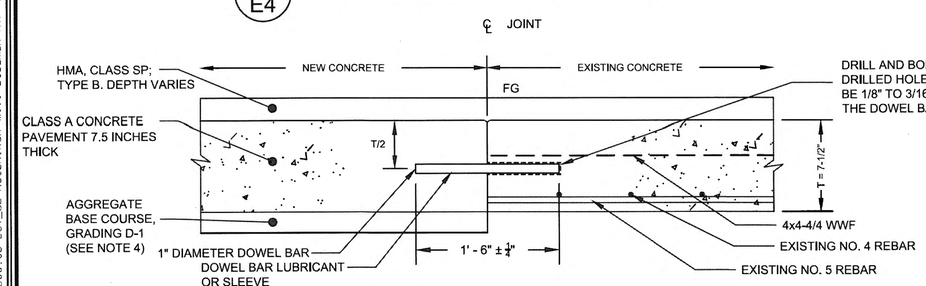
A / E4 LONGITUDINAL CONSTRUCTION JOINT WITH DOWEL BARS



B / E4 TRANSVERSE CONTRACTION JOINT



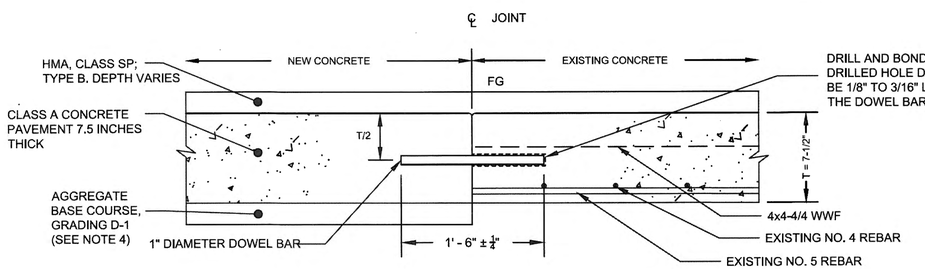
C / E4 TRANSVERSE CONSTRUCTION JOINT



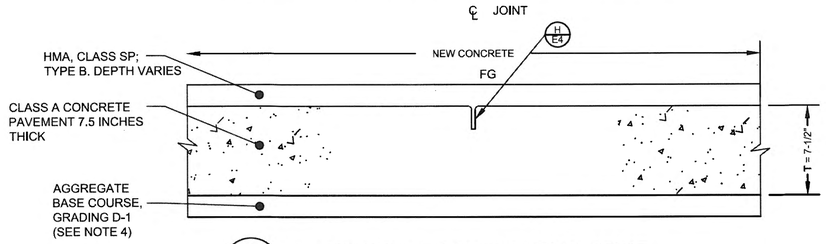
D / E4 TRANSVERSE CONSTRUCTION JOINT FOR EXISTING CONCRETE PAVEMENT WITH EXISTING REBAR

SHEET NOTES:

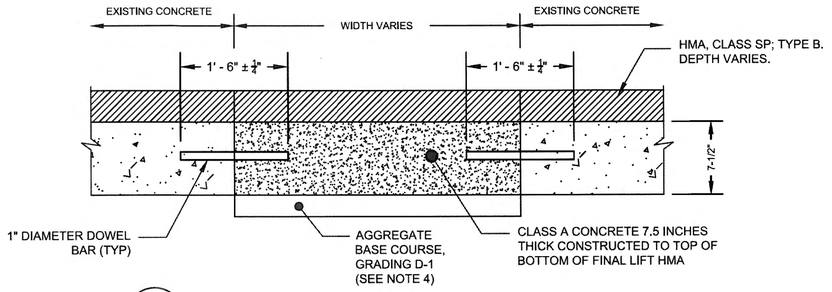
1. THE BOTTOM OF THE SAW CUT MUST BE AT LEAST 0.5" CLEAR OF ANY DOWEL BAR AND TIE BAR.
2. SAWCUT WIDTH: 1/8" MIN TO 3/16" MAX.
3. FILL WITH HOT POUR JOINT SEALANT.
4. PLACE 4" AGGREGATE BASE COURSE, GRADING D-1 WHERE EXISTING D-1 HAS BEEN COMPLETELY REMOVED DUE TO REMOVAL OF 7.5 INCH CONCRETE SLAB OR OTHER IMPROVEMENTS. ALL OTHER CASES, AFTER REMOVAL OF EXISTING CONCRETE SLAB, ADD AGGREGATE BASE COURSE, GRADING D-1 AS NECESSARY TO ESTABLISH BOTTOM OF CLASS A CONCRETE PAVEMENT 7.5 INCHES THICK.



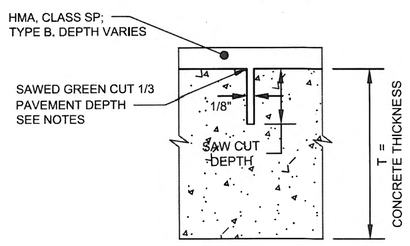
E / E4 LONGITUDINAL CONSTRUCTION JOINT FOR EXISTING CONCRETE PAVEMENT WITH EXISTING REBAR



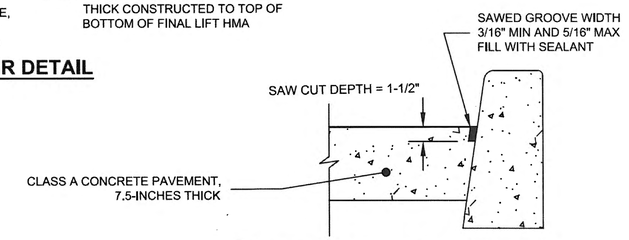
F / E4 LONGITUDINAL CONTRACTION JOINT



G / E4 CONCRETE PATCH REPAIR DETAIL



H / E4 CONTRACTION JOINT DETAIL



I / E4 CONCRETE PAVEMENT TO CURB JOINT DETAIL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
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STATE OF ALASKA 49TH
Lance W. DeBernardi
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6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

PCC PAVEMENT JOINT DETAILS

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-E-Details.dwg | DATE 8/11/2017 15:48 | LAYOUT E4 | DESIGNED | CHECKED | DRAFTED

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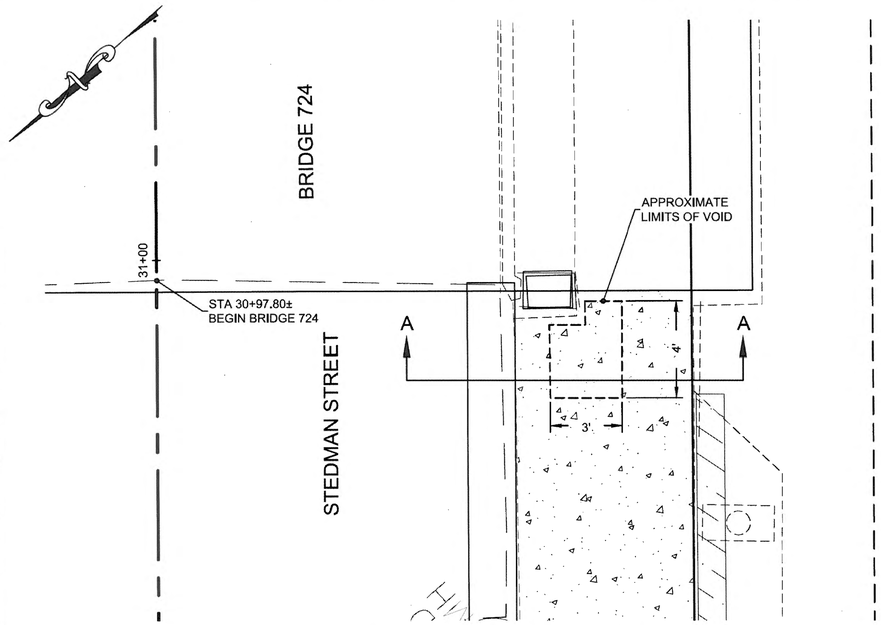
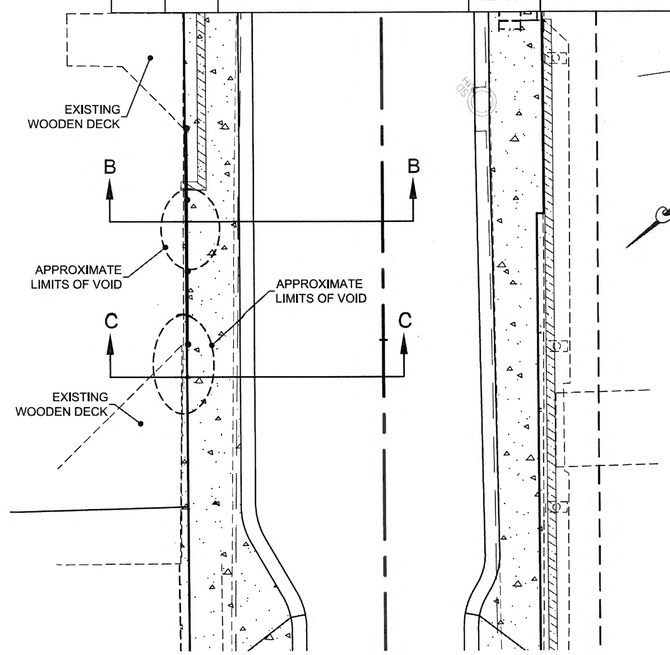
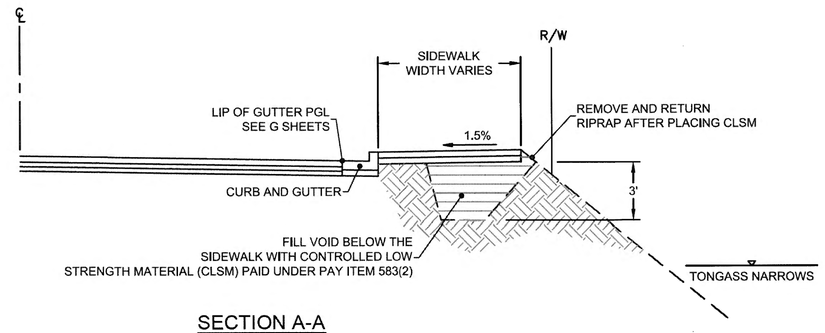


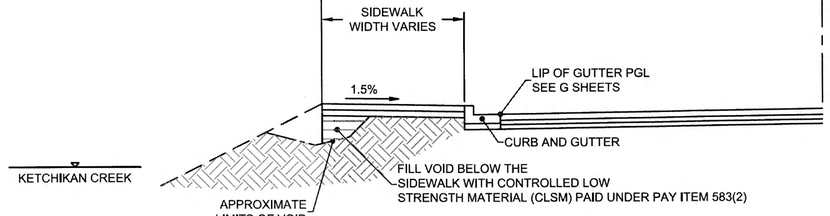
A / E5 CONCRETE VOID REPAIR
STA 30+95 RT



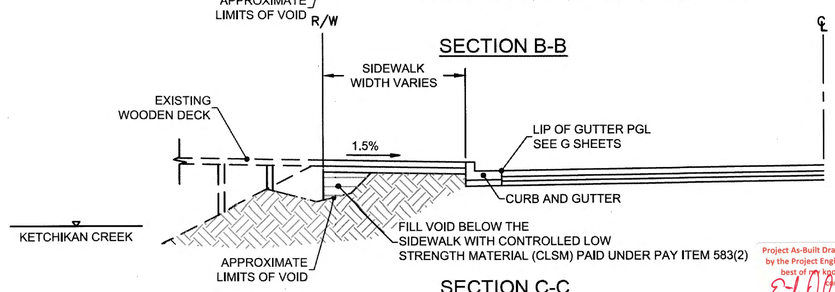
B / E5 SIDEWALK VOID REPAIR
STA 30+50 LT



SECTION A-A



SECTION B-B



SECTION C-C

SHEET NOTES:

1. PLACE BOND BREAKER BETWEEN CLSM AND BRIDGE 724 ABUTMENT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

PLANS DEVELOPED BY:
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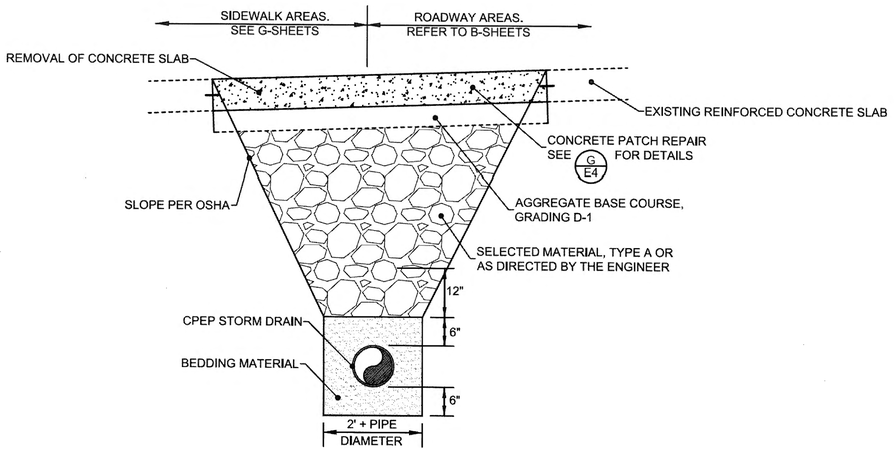
KTN: FRONT, MILL AND STEDMAN
STREETS RECONSTRUCTION
PROJECT #Z68160000

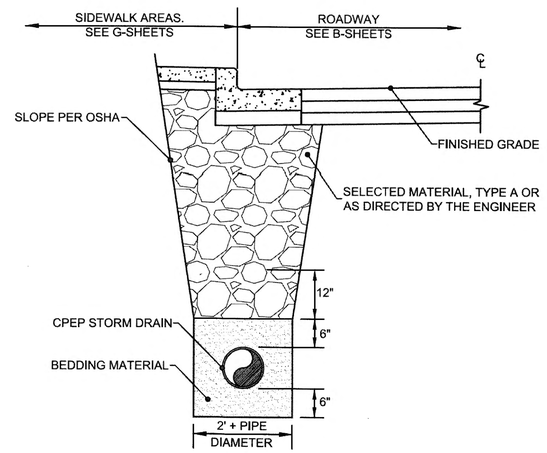
SIDEWALK VOID REPAIR DETAILS

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-E-Details.dwg | DATE 6/14/2017 10:18 | LAYOUT E5 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	E6	140



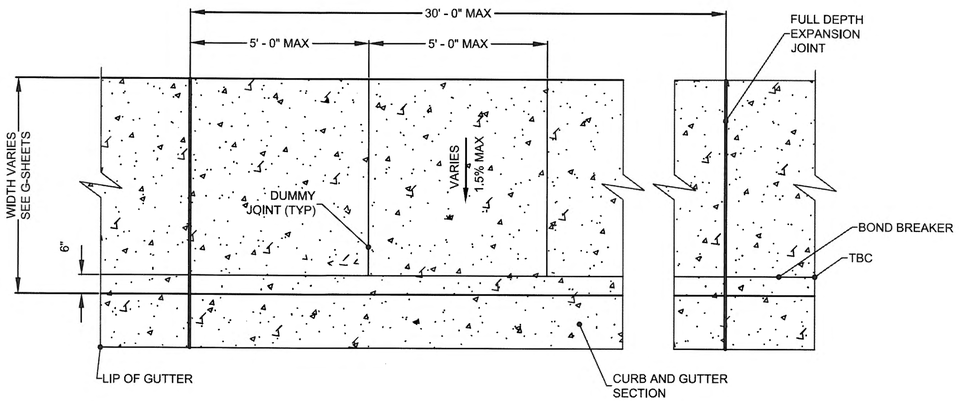
A E6 TYPICAL STORM DRAIN TRENCH SECTION UNDER REINFORCED CONCRETE SLAB
NTS



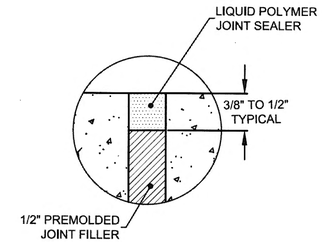
B E6 TYPICAL STORM DRAIN TRENCH SECTION IN ROADWAY EMBANKMENT
NTS

SHEET NOTES:

1. CONCRETE SIDEWALKS AND CURB AND GUTTER EXPANSION JOINTS SHALL BE PLACED IMMEDIATELY PRECEDING AND FOLLOWING ALL CURB AND SIDEWALK CUTS. THEREAFTER, THEY SHALL BE PLACED AT 30' MAXIMUM. INSTALL EXPANSION JOINTS WHEN ABUTTING EXISTING FEATURES SUCH AS RETAINING WALLS, FOUNDATIONS ETC.
2. CONCRETE SIDEWALK DUMMY JOINTS SHALL EXTEND INTO CONCRETE 1/3 THE DEPTH AND 1/8" WIDE AT 5' MAXIMUM INTERVAL SPACING BETWEEN EXPANSION JOINTS.
3. INSTALL A BOND BREAKER FOR THE FULL THICKNESS OF THE SIDEWALK BETWEEN THE SIDEWALK AND THE CURB AND GUTTER AS SHOWN. USE A 15 OR 30 POUND ROOFING FELT MATERIAL OR OTHER APPROVED PRODUCT. DO NOT USE EXPANSION JOINT MATERIAL AS A BOND BREAKER.
4. ALL JOINTS AND SEAMS SHALL BE EDGED.
5. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING ON ALL SURFACES.
6. CURING COMPOUND SHALL BE APPLIED TO THE CONCRETE. APPLICATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
7. ALL CONCRETE WITHIN THE CURB CUT LIMITS FOR DRIVEWAYS SHALL BE 6" THICK AND SHALL BE POURED ON A 4" D-1 BASE COURSE COMPACTED TO 95% OF ITS MAXIMUM DENSITY.
8. SEE STANDARD DRAWINGS I-20.14 AND I-21.02 FOR ADDITIONAL INFORMATION.



C E6 SIDEWALK JOINT SPACING
NTS



D E6 FULL DEPTH EXPANSION JOINT DETAIL
NTS

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By Date 1/27/20

PLANS DEVELOPED BY:
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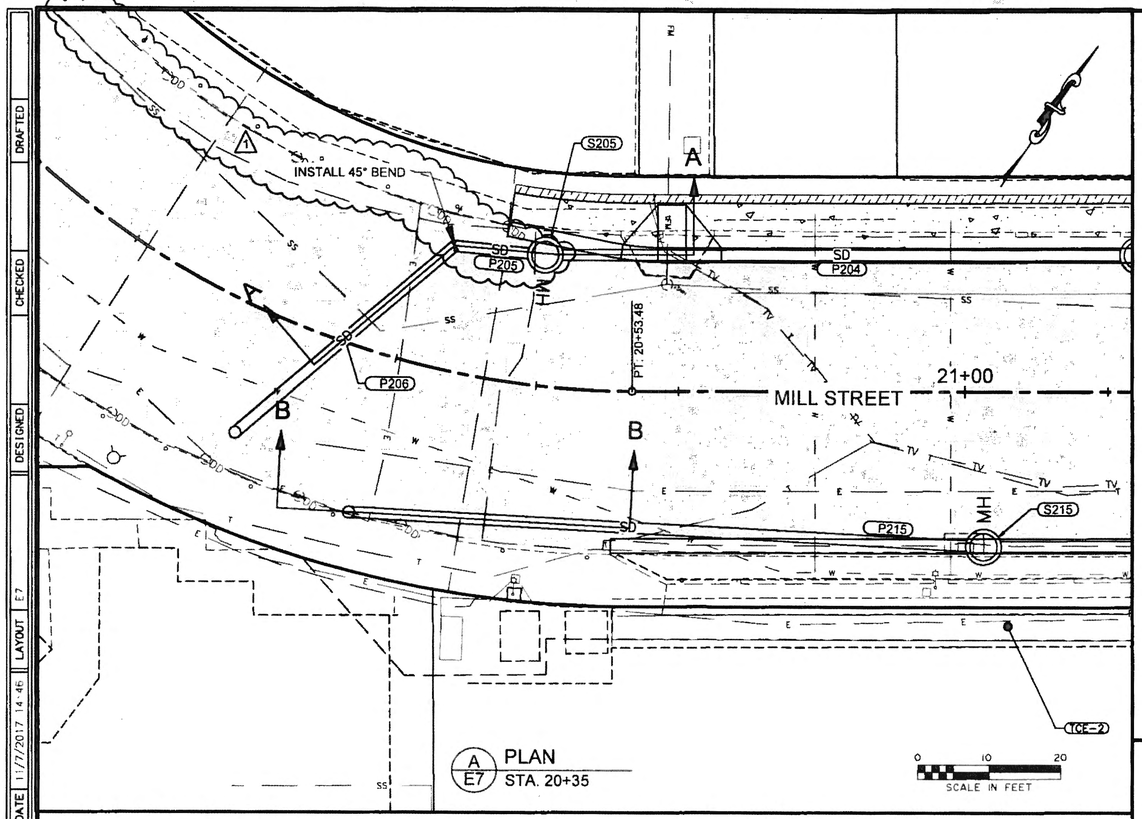
KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

TRENCH AND SIDEWALK JOINT DETAILS

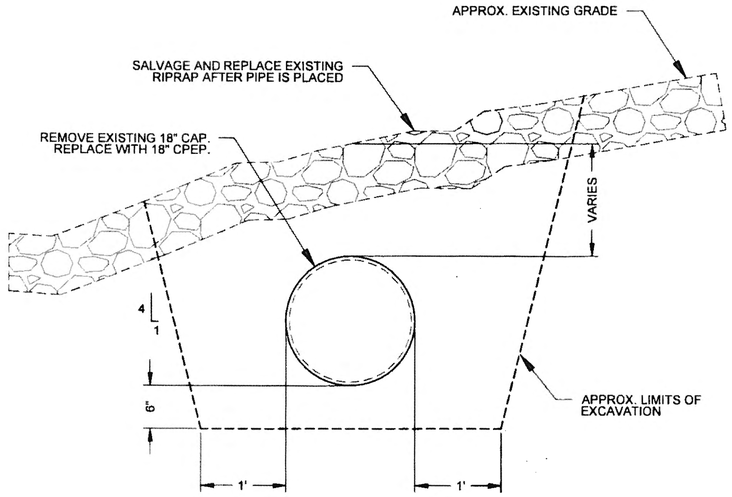
DRAFTED | CHECKED | DESIGNED | LAYOUT E6 | DATE 6/14/2017 10:18 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP A\Civil\ACAD\1900.03-E-Details.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/7/17	REVISED PAVEMENT LIMITS	ALASKA	NH-0902(038)	2017	E7	140

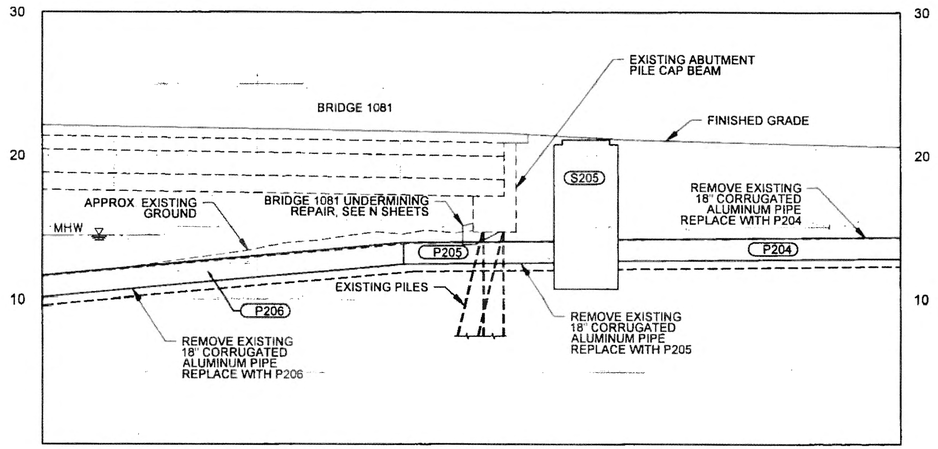
DRAFTED | CHECKED | DESIGNED | LAYOUT E7 | DATE 11/7/2017 14:46 | FILE Z:\project\1900 03 007_SE Ketchikan Mill Sledgmn NTP 4\Civil\ACAD\1900 03-F-Sheets.dwg



A/E7 PLAN
STA. 20+35

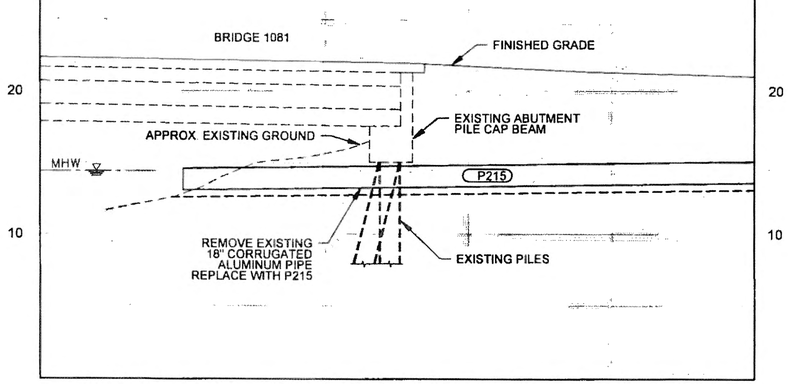


D/E7 TYPICAL TRENCH SECTION
NTS



B/E7 SECTION A-A
STA. 20+35

0 5 10
SCALE IN FEET



C/E7 SECTION B-B
STA. 20+35

0 5 10
SCALE IN FEET

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
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STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

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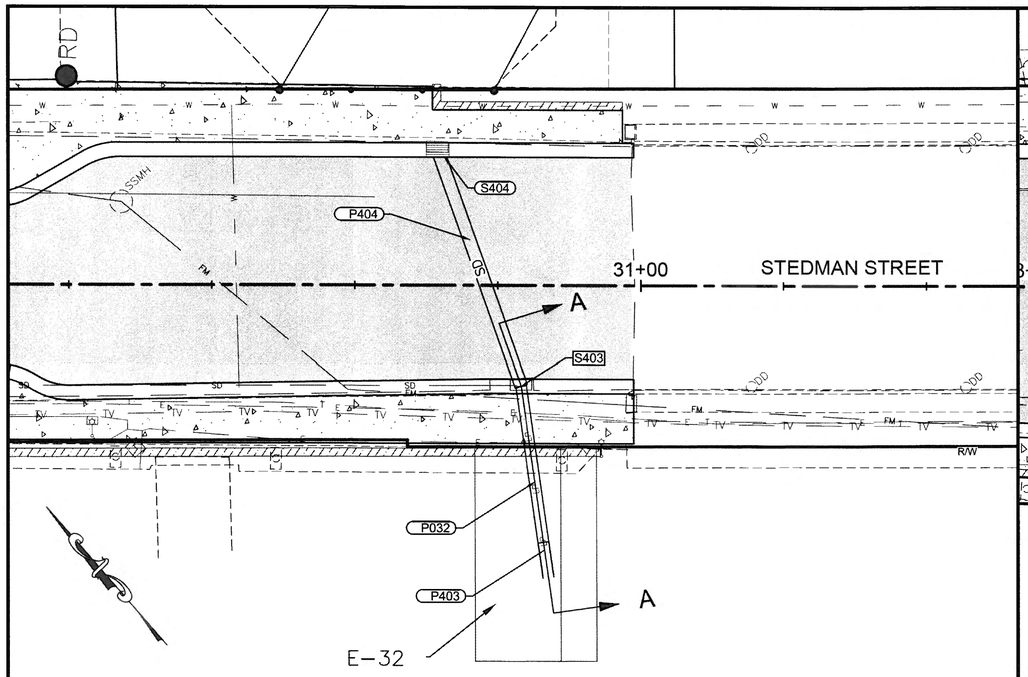
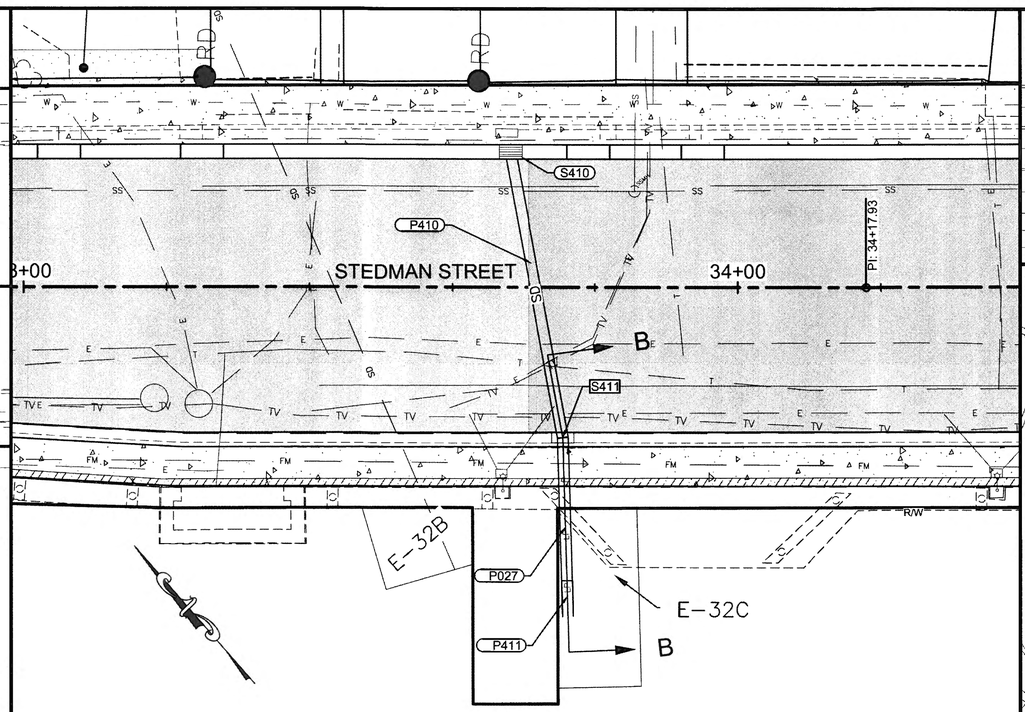
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

STORM DETAILS ABUTMENT 7



A / E8 PLAN
STA. 30+83 RT



B / E8 PLAN
STA. 33+75 RT

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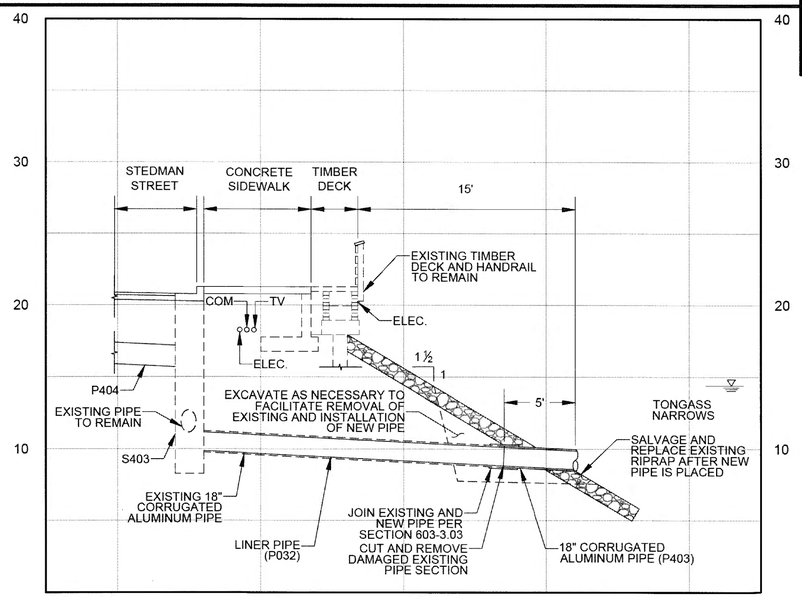
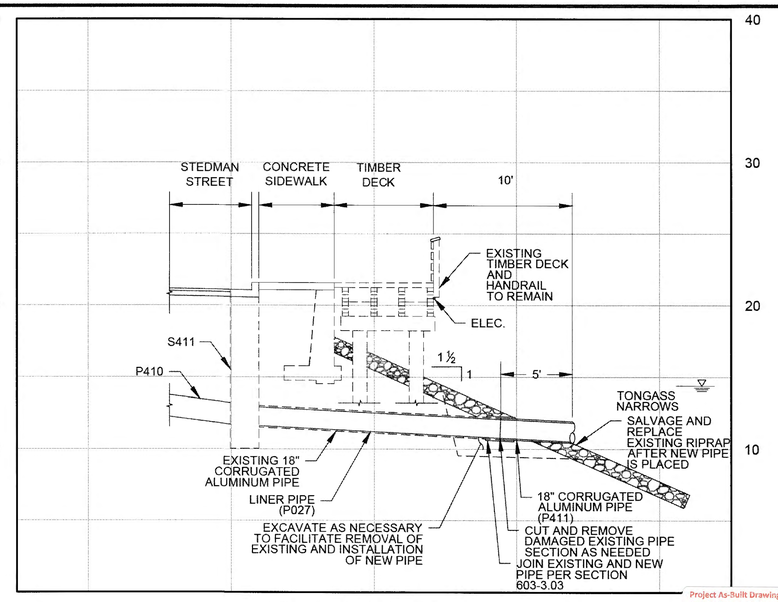
SCALE IN FEET



A1 / E8 SECTION A-A
STA. 30+83 RT



B1 / E8 SECTION B-B
STA. 33+75 RT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: Date: 1/22/18

Plans Prepared By: R&M Consultants, Inc.
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voice: 907 522-1707, fax: 907 522 3404
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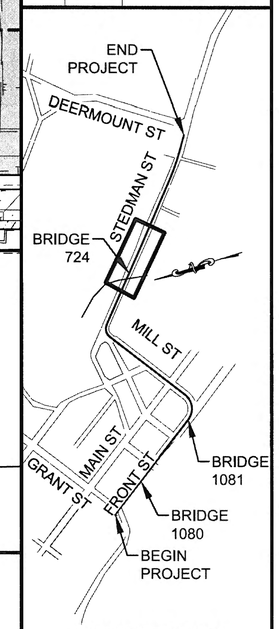
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND



CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

CULVERT PIPE REPAIR DETAILS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
E8	140

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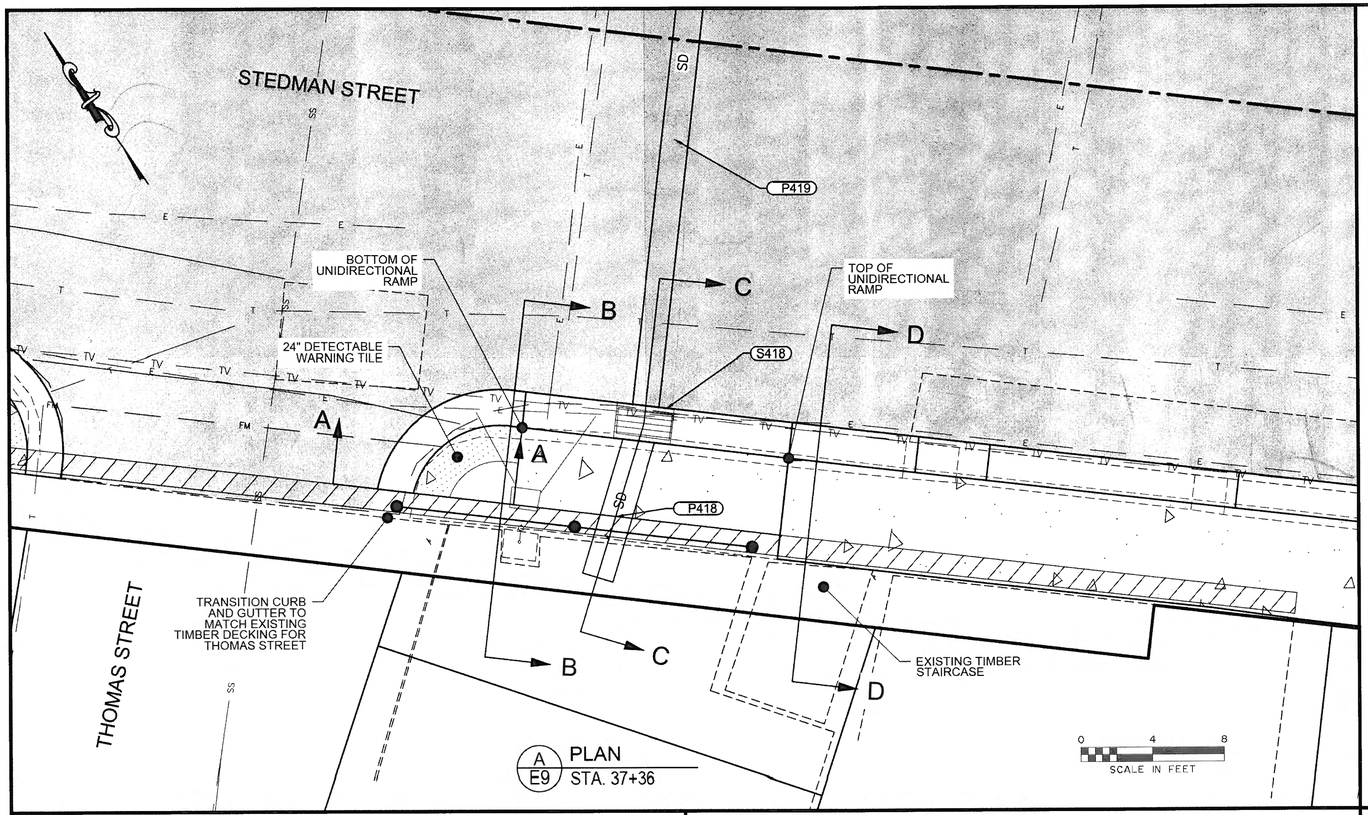
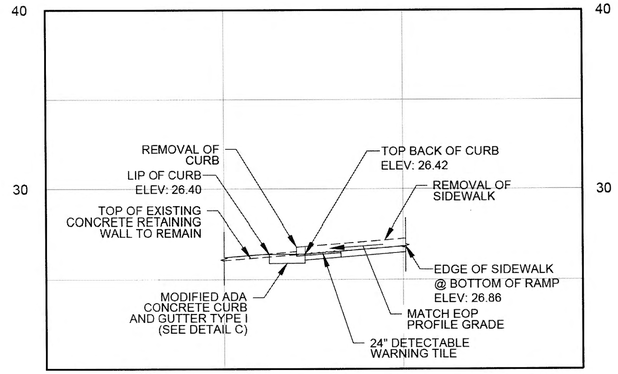
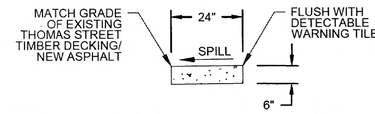


A / E9 PLAN
STA. 37+36

SHEET NOTES:
1. SEE G SHEETS FOR CURB AND GUTTER, LIP OF GUTTER PROFILE GRADE LINE (PGL), AND EDGE OF PAVEMENT (EOP) DETAILS.



B / E9 SECTION A-A
STA. 37+23 RT (@TBC)



C / E9 MODIFIED ADA CURB AND GUTTER
NTS

Plans Prepared By: R&M Consultants, Inc.
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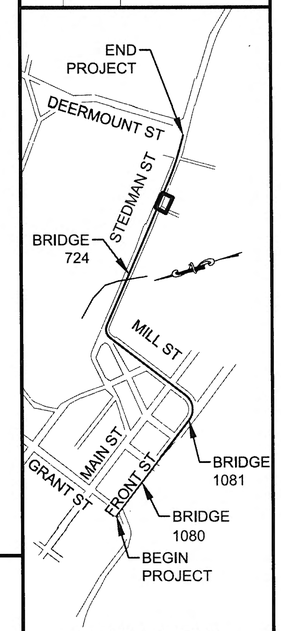
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

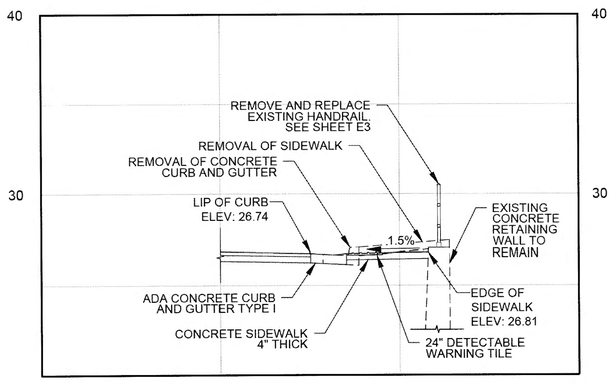
ATTACHMENT NUMBER

RECORD OF REVISIONS

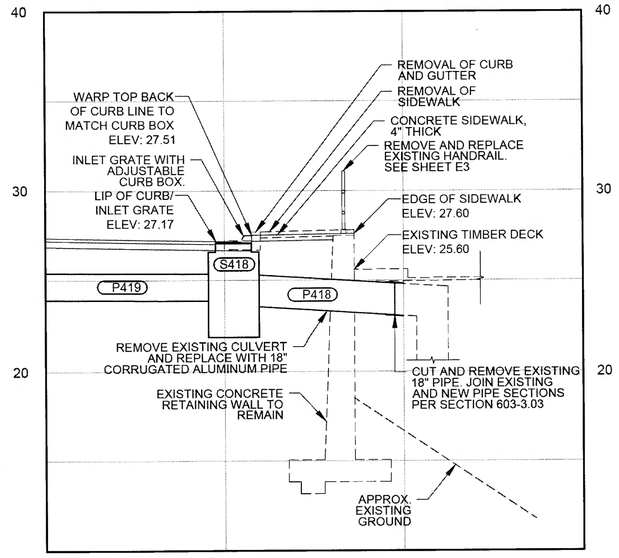
No.	DATE	DESCRIPTION



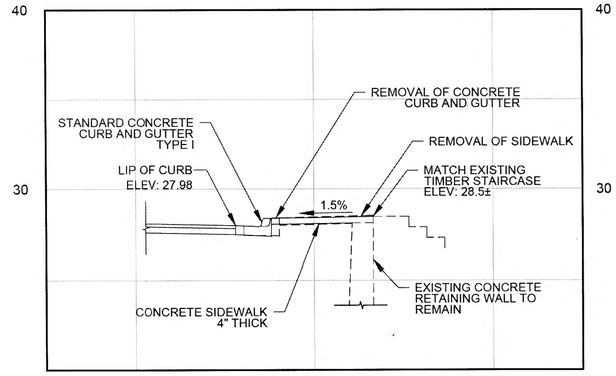
PLAN LEGEND



D / E9 SECTION B-B
STA. 37+28 RT (@TBC)



E / E9 SECTION C-C
STA. 37+36 RT (@TBC)



F / E9 SECTION D-D
STA. 37+46 RT (@TBC)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/27/18



CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

P418 OUTFALL DETAIL

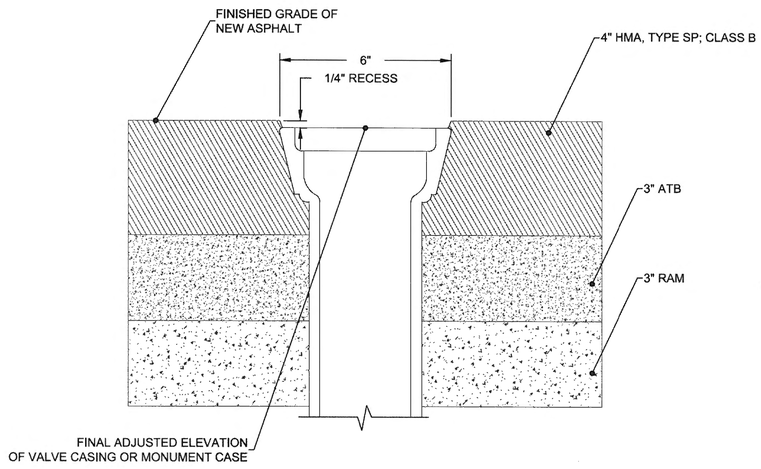
PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
E9	140

PLOTTED: 6/14/2017 11:22 AM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-F-SHEETS.DWG

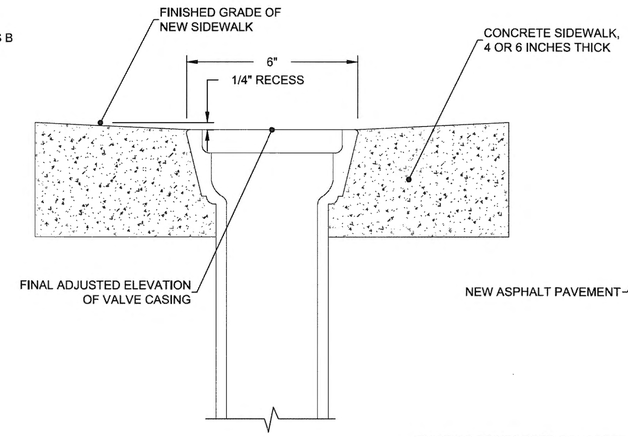
Addendum #3 Attachment #7

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	11/15/17	ADDED MANHOLE FRAME AND COVER DETAIL AND CORRESPONDING NOTES	ALASKA	NH-0902(038)	2017	E10	140

DRAFTED | CHECKED | DESIGNED | LAYOUT E10 | DATE 11/17/2017 9:46 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedmon NTP A\Civil\ACAD\1900.03-E-Details.dwg



A E10 ADJUST VALVE BOX TYPE A AND ADJUST MONUMENT CASE



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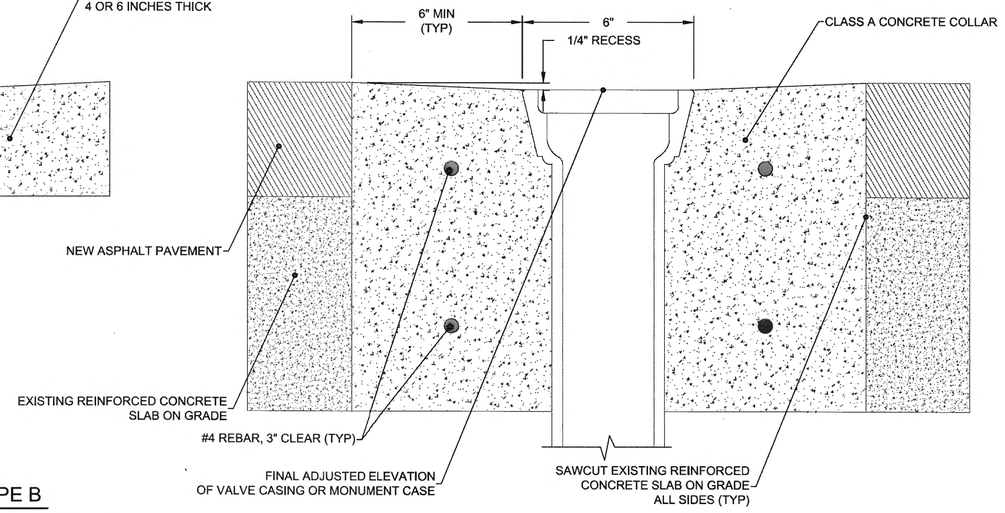
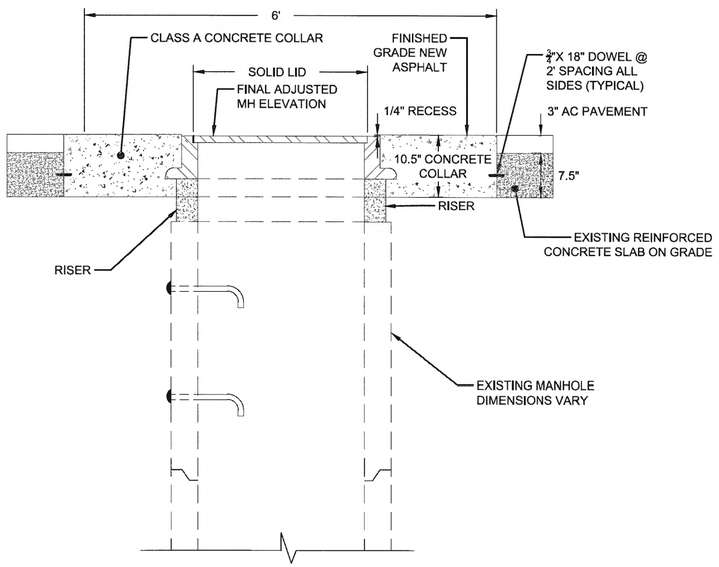
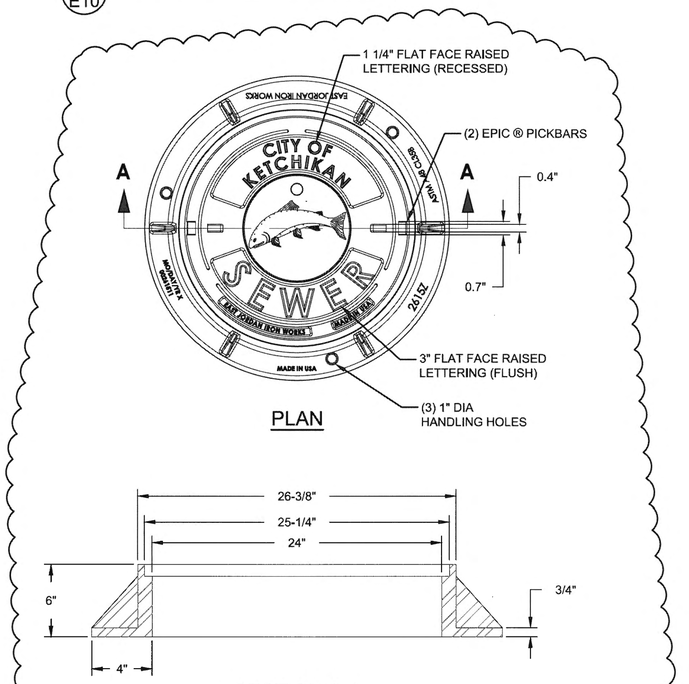


C E10 ADJUST VALVE BOX TYPE C AND ADJUST MONUMENT CASE



D E10 ADJUST MANHOLE IN CONCRETE SLAB



⚠ E10 SANITARY SEWER MANHOLE FRAME AND COVER

SHEET NOTES:

1. REMOVE KEY BOX TOP AND INSTALL PIPE COUPLING ON STANDARD KEY BOX, REMOVE CENTER PLUG FROM KEY BOX TOP AND INSTALL INTO TOP OF PIPE COUPLER.
2. ALL BACKFILL MATERIAL AROUND VALVE BOX SHALL BE AGGREGATE BASE COURSE, GRADING D-1.
3. MANHOLE FRAME AND COVER SHALL BE "EJIW 00261531A01" OR APPROVED EQUAL.
4. COVER AND FRAME SHALL BE HEAVY DUTY AND RATED FOR H-20 LOADING. MINIMUM TOTAL WEIGHT SHALL BE 360 POUNDS. SEWER FRAME & COVERS SHALL BE "EON LOCK" BOLT DOWN COVERS.
5. COVER AND SEALING GASKET FOR SEWER SHALL BE RECESSED NEOPRENE GASKET WITH 60 DUROMETER HARDNESS RESULTING IN A SELF SEALING LID, OR APPROVED EQUAL.
6. SEWER FRAMES SHALL BE MACHINED TO FIT WATERTIGHT COVER. SEWER COVERS SHALL HAVE THE WORDS "CITY OF KETCHIKAN SEWER" CAST IN, AND SHALL BE PROVIDED WITH AN INTEGRAL LIFT HANDLE.
7. FRAME AND COVER DIMENSIONS SHALL BE IN ACCORDANCE WITH THE GUIDELINES INDICATED. VARIATIONS SHALL BE APPROVED BY THE ENGINEER.
8. FRAMES AND COVERS SHALL BE IDENTICAL FOR ALL MANHOLE INSTALLATIONS.

⚠

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/29/20

PLANS DEVELOPED BY:
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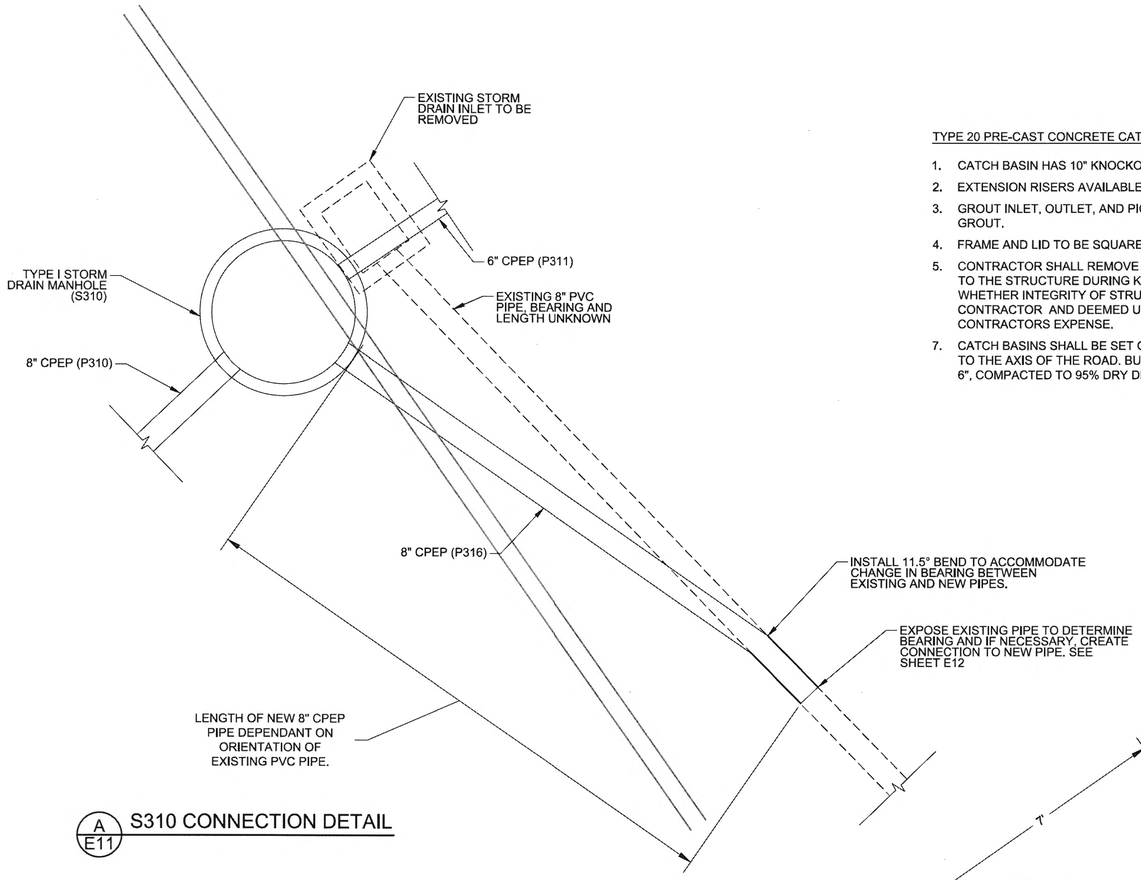
KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

VALVE BOX & MANHOLE DETAILS

NO.	DATE	REVISION
1	11/13/17	MODIFIED DETAIL B - CAP PIPE
2	11/17/17	NOTE 3 MODIFIED

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)	2017	E11	140



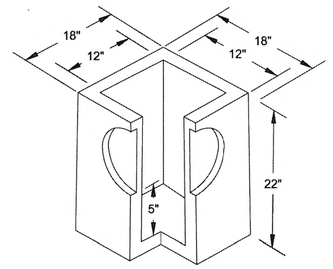
A E11 S310 CONNECTION DETAIL

S310 CONNECTION NOTES:

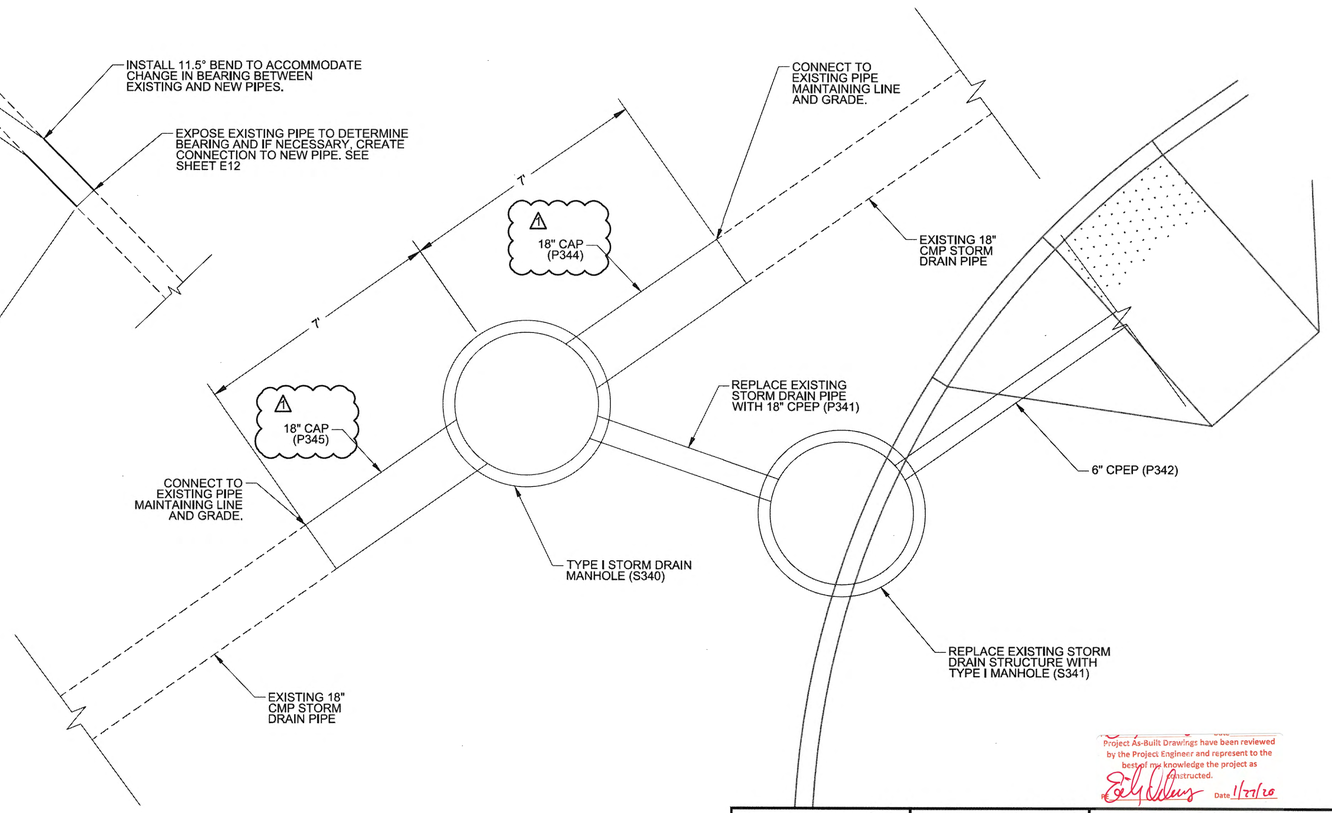
1. CONTRACTOR TO FIELD VERIFY BEARING AND FUNCTIONAL STATUS OF EXISTING 8" PVC PIPE AND, IF POSSIBLE, DETERMINE THE LOCATION OF ITS INLET.
2. IF DEEMED ACCEPTABLE BY THE FIELD ENGINEER, RELOCATE EXISTING PVC PIPE TO OUTFALL INTO S310.
3. IF THE FIELD ENGINEER DETERMINES THAT THE EXISTING PVC PIPE CANNOT BE RELOCATED, NEW 8" CPEP PIPE SHALL BE INSTALLED PER DETAIL THIS SHEET TO CONNECT THE EXISTING PIPE TO S310.

TYPE 20 PRE-CAST CONCRETE CATCH BASIN NOTES:

1. CATCH BASIN HAS 10" KNOCKOUTS ON FOUR SIDES TO ACCOMMODATE 6" PIPE SIZE.
2. EXTENSION RISERS AVAILABLE IN 6" AND 12" HEIGHTS. OUTSIDE DIMENSIONS ARE 18"X18".
3. GROUT INLET, OUTLET, AND PICK HOLE PENETRATIONS WATERTIGHT WITH "JETSET" OR OTHER APPROVED GROUT.
4. FRAME AND LID TO BE SQUARE TO FIT CATCH BASIN. INSTALL LID FLUSH WITH SURROUNDING CONCRETE.
5. CONTRACTOR SHALL REMOVE KNOCKOUTS AS PER MANUFACTURES RECOMMENDATIONS, DAMAGE INCURRED TO THE STRUCTURE DURING KNOCKOUT REMOVAL SHALL BE EVALUATED BY THE ENGINEER TO DETERMINE WHETHER INTEGRITY OF STRUCTURE HAS BEEN COMPROMISED. STRUCTURES DAMAGED BY THE CONTRACTOR AND DEEMED UN-USABLE BY THE ENGINEER SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
7. CATCH BASINS SHALL BE SET ON A MIN. 6" THICK BEDDING THAT IS LEVEL, WELL COMPACTED AND ORIENTED TO THE AXIS OF THE ROAD. BURIED CATCH BASINS SHALL BE BACKFILLED WITH D-1 PLACED IN MAX. LIFTS OF 6", COMPACTED TO 95% DRY DENSITY.



C E11 STORM DRAIN STRUCTURE - TYPE 20



B E11 S340 CONNECTION DETAIL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/22/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
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Lance W. DeBernardi
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(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

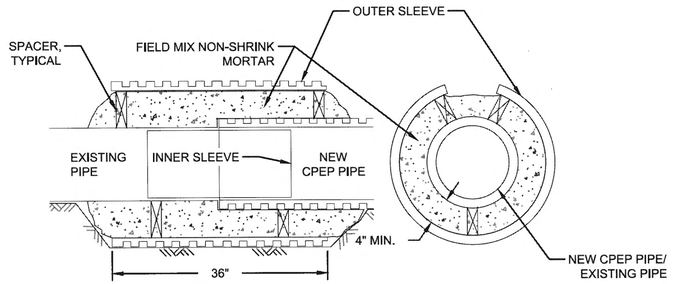
STORM DRAIN DETAILS

DRAFTED | DESIGNED | CHECKED | LAYOUT E11 | DATE 11/17/2017 9:23 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\C:\vi1\VAQA\1900.03-E-Details.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	E12	140

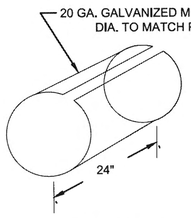
CPEP STORM PIPE CONNECTION NOTES:

1. MATCH INVERTS OF EXISTING PIPE AND NEW CPEP PIPE. INNER SLEEVE SHALL FORM A SMOOTH TRANSITION, WITHOUT AN ABRUPT EDGE WITH NEW CPEP PIPE AND EXISTING PIPE.
2. INSTALL 24" LONG INNER SLEEVE.
3. INSTALL A 36" LONG OUTER SLEEVE, CENTER ON JOINT, AS A CONCRETE FORM.
4. FILL OUTER SLEEVE WITH NON-SHRINK MORTAR.
5. USE POTABLE WATER IN MINIMUM AMOUNTS TO PROVIDE PLASTICITY IN PLACING THE MORTAR.
6. BACKFILL AND COMPACT TRENCH.



SIDE VIEW

END VIEW

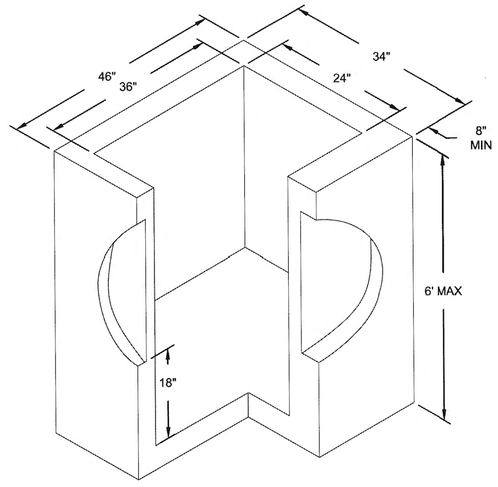


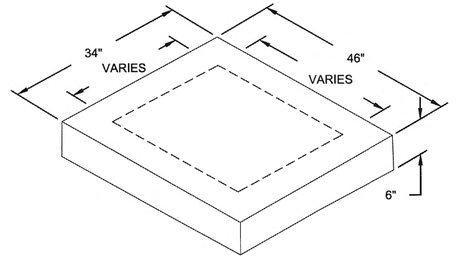
INNER SLEEVE

A E12 CPEP CONNECTION TO EXISTING DETAIL

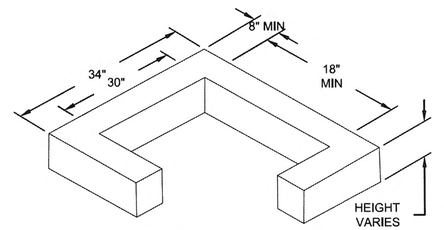
PRE-CAST CONCRETE CATCH BASIN NOTES:

1. CATCH BASINS HAVE KNOCKOUTS ON FOUR SIDES TO ACCOMMODATE 18" PIPE SIZE.
2. EXTENSION RISERS AVAILABLE IN 6" AND 12" HEIGHTS.
3. GROUT INLET, OUTLET AND PICK HOLE PENETRATIONS WATERTIGHT WITH "JET-SET" OR OTHER APPROVED GROUT.
4. INSTALL FLAT CONCRETE LID WITH BLOCKOUT TO ACCOMMODATE INLET FRAME AND GRATE.
5. FRAME AND GRATE TO BE HEAVY DUTY IRON, RECTANGULAR TO FIT CATCH BASIN AND CURB TYPE.
6. CONTRACTOR SHALL REMOVE KNOCKOUTS AS PER MANUFACTURES RECOMMENDATIONS, DAMAGE INCURRED TO THE STRUCTURE DURING KNOCKOUT REMOVAL SHALL BE EVALUATED BY THE ENGINEER TO DETERMINE WHETHER INTEGRITY OF STRUCTURE HAS BEEN COMPROMISED. STRUCTURES DAMAGED BY THE CONTRACTOR AND DEEMED UN-USABLE BY THE ENGINEER SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
7. CATCH BASINS SHALL BE SET ON A MIN. 6" THICK BEDDING THAT IS LEVEL, WELL COMPACTED AND ORIENTED TO THE AXIS OF THE ROAD. BURIED CATCH BASINS SHALL BE BACKFILLED WITH D-1 PLACED IN MAX. LIFTS OF 6", COMPACTED TO 95% DRY DENSITY.





TOP SLAB



ADJUSTING RING

B E12 CATCH BASIN DETAIL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

PLANS DEVELOPED BY:
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1/14/17

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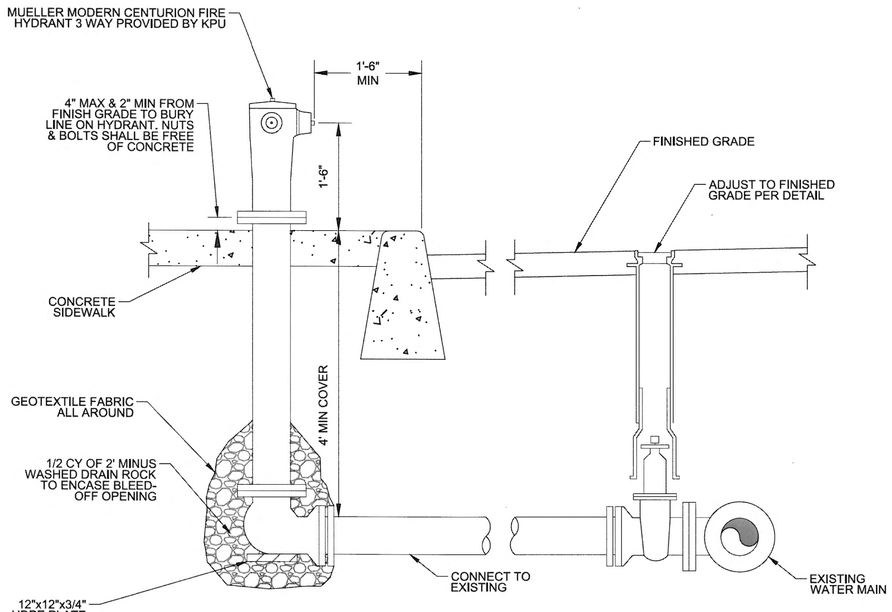
KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

STORM DRAIN DETAILS

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-E-Details.dwg | DATE 6/14/2017 10:18 | LAYOUT E12 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	E13	140



A / E13 FIRE HYDRANT RELOCATE

HYDRANT NOTES:

1. ALL BOLT THREADS TO BE GREASED PRIOR TO INSTALLATION.
2. MECHANICAL RESTRAINED JOINTS TO BE USED THROUGHOUT.
3. HYDRANT PAINT SHALL BE SPECIFIED BY KPU.
4. DOUBLE DIPPED GALVANIZED NUTS AND BOLTS SHALL BE FREE OF CONCRETE.
5. PLACE BURIED UTILITY WARNING TAPE 1' ABOVE THE HYDRANT LEAD.
6. THRUST BLOCK MAY BE OMITTED IF PIPE BEYOND VALVE IS CONNECTED TOGETHER W/ RESTRAINED JOINTS 40 FEET EACH WAY.
7. D-1 BEDDING MUST BE PLACED AROUND ALL VALVE BOXES

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: [signature] Date: 1/27/20

PLANS DEVELOPED BY:
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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

FIRE HYDRANT DETAILS

FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-E-Details.dwg | DATE 6/14/2017 10:18 | LAYOUT E13 | DESIGNED | CHECKED | DRAFTED

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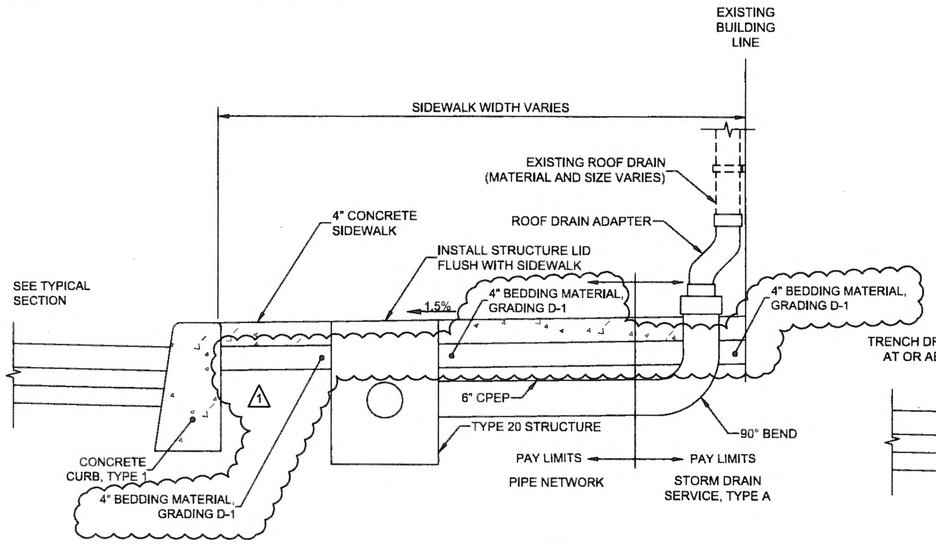
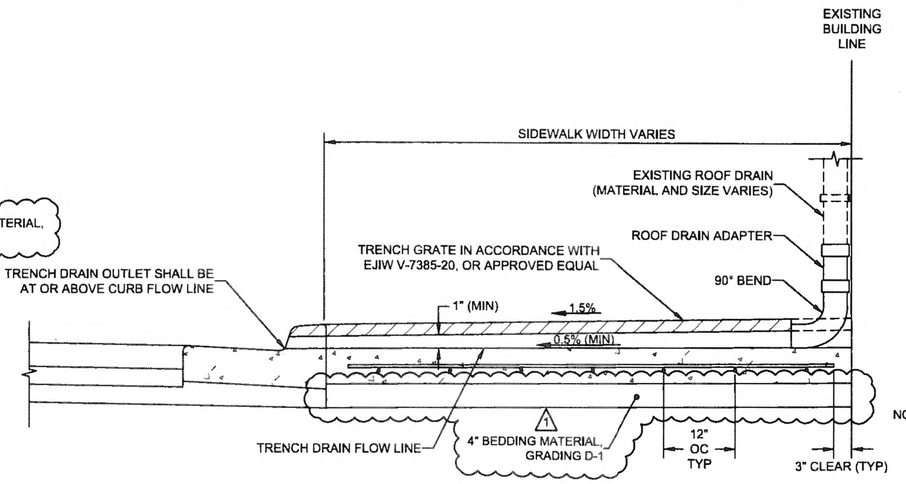


A / E14 STORM DRAIN SERVICE, TYPE A
NTS



SECTION B-B
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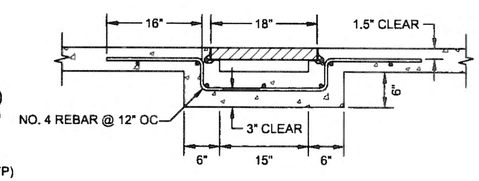
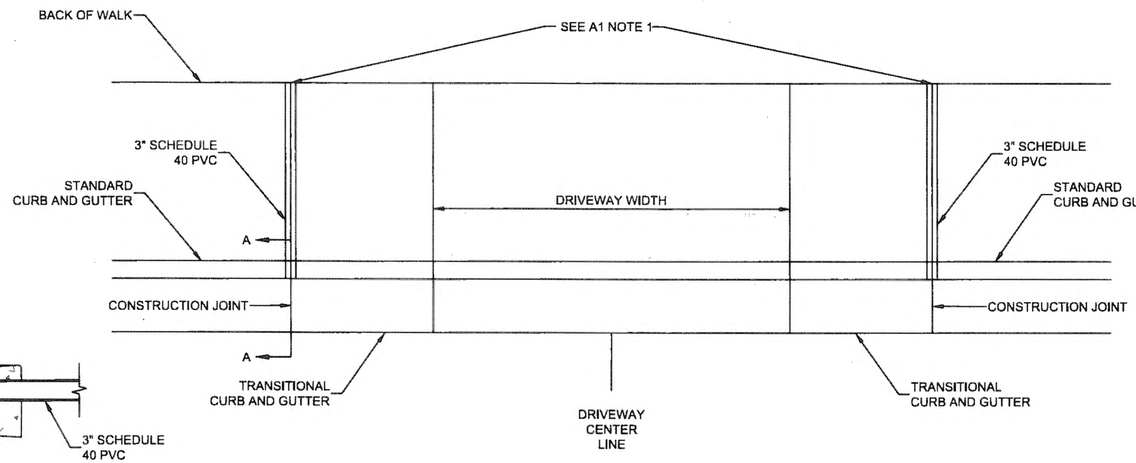


SECTION C-C
NTS



SECTION A-A
NTS

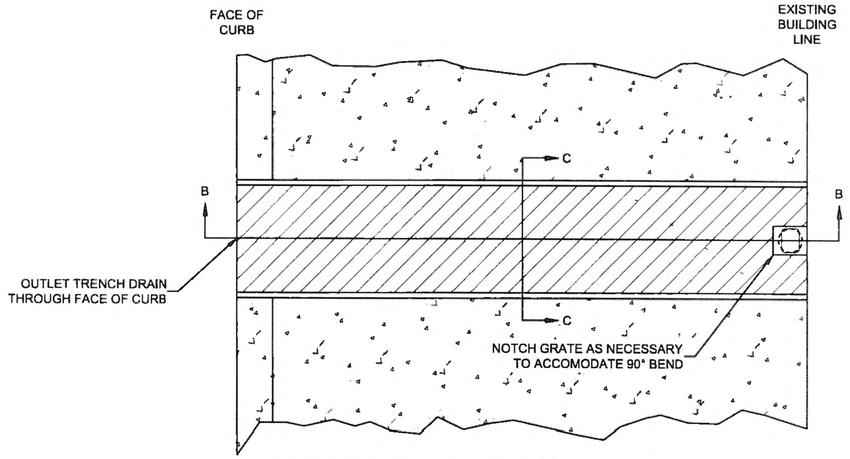
A1 / E14 STORM DRAIN SERVICE, TYPE A1
NTS

STORM DRAIN SERVICE TYPE A1 NOTES:

1. CONNECT TO EXISTING STORM DRAIN SERVICE OR CAP AS DIRECTED BY ENGINEER.
2. THE 3" PVC PIPE SHALL BE INSTALLED TO THE BACK OF WALK AND HAVE POSITIVE FLOW FROM BACK OF WALK TO THE GUTTER.
3. REMOVABLE CAPS SHALL BE INSTALLED IN CURB DRAIN OPENINGS AT THE CURB FACE UPON INITIAL CONSTRUCTION. CAPS SHALL BE REMOVED BY OTHERS AT TIME OF CONNECTION TO STORM DRAIN SERVICE. USE CAP RECOMMENDED BY PIPE MANUFACTURER.

GENERAL STORM DRAIN SERVICE NOTES:

1. SEE SUMMARY TABLES FOR LOCATION AND TYPE OF CONNECTION TO EXISTING STORM DRAIN SERVICES (RD).
2. FIELD ADJUST LOCATION OF STORM DRAIN SERVICES TO AVOID DRIVEWAY CURB CUTS AND CURB RAMPS.
3. COORDINATE FINAL LOCATION FOR STORM DRAIN SERVICES WITH ENGINEER.



B / E14 STORM DRAIN SERVICE, TYPE B
NTS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

PLANS DEVELOPED BY:
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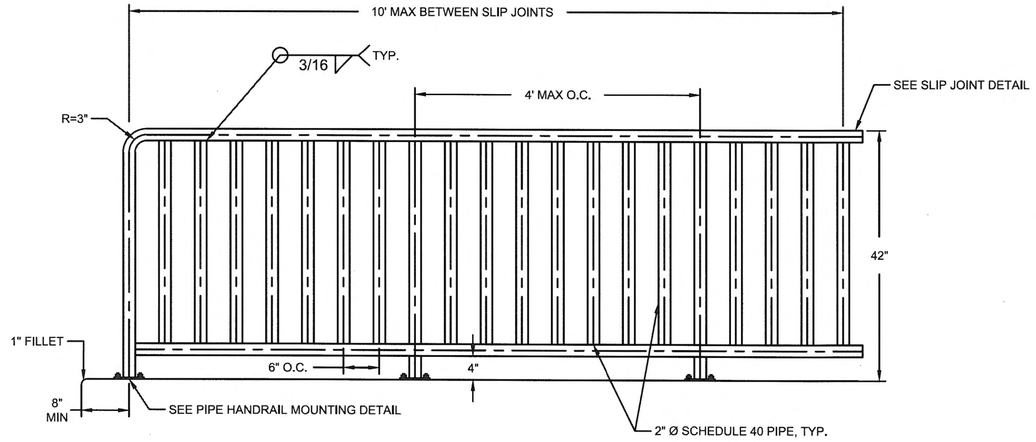
KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

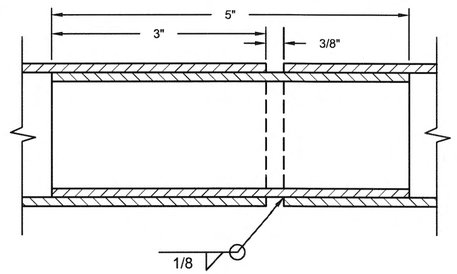
STORM DRAIN SERVICE DETAIL

FILE Z:\Projects\1900 03 001_SE Ketchikan Mill Stedman NTP AS(rv1)\MCAD\1900 03-E-Details.dwg
DATE 11/7/2017 14:54
LAYOUT E14
DES'IGNED
CHECKED
DRAFTED

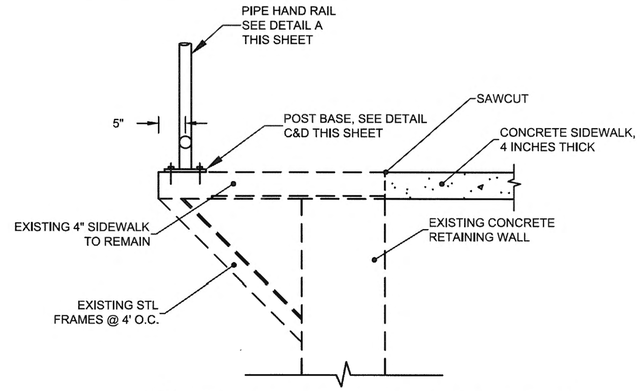
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	E15	140



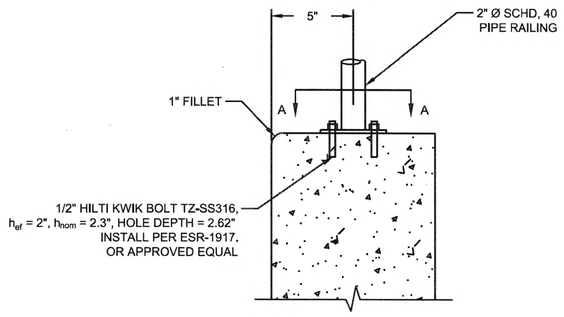
A E15 PIPE HAND RAIL ELEVATION VIEW



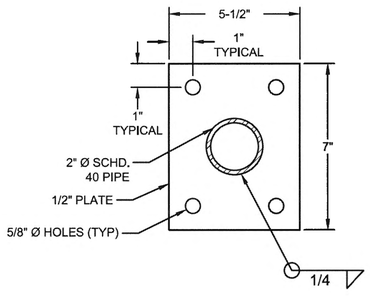
B E15 SLIP JOINT DETAIL NTS



E E15 PIPE HAND RAIL, TYPE B MOUNTING DETAIL NTS



C E15 PIPE HAND RAIL, TYPE A MOUNTING DETAIL NTS



D E15 SECTION A-A NTS

PIPE HANDRAIL NOTES:

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL PIPE HANDRAIL PRIOR TO FABRICATION FOR THE ENGINEER'S REVIEW AND APPROVAL.
2. ALL VERTICAL RAILING MEMBERS SHALL BE PLUMB.
3. RAILING PANELS SHALL BE SPLICED USING SLIP JOINT TO PROVIDE CONTINUOUS RAILING. SEE DETAIL.
4. ALL RAILING MEMBERS AND ASSOCIATED HARDWARE SHALL BE GALVANIZED.
5. RAILING SHALL BE CENTERED IN TOP OF COPING.
6. ALL VERTICAL MEMBERS SHALL BE SPACED TO MAINTAIN A UNIFORM GAP.
7. VERIFY ALL CONTROLLING DIMENSIONS IN THE FEILD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By Emily Ridley Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907 522-1707 VOICE
907 522-3404 FAX
WWW.RMCONSULT.COM
CERT. OF AUTH. NO.
AECC111

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
9/15/17
REGISTERED PROFESSIONAL ENGINEER

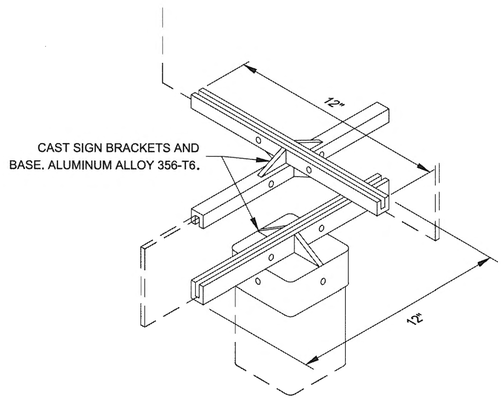
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

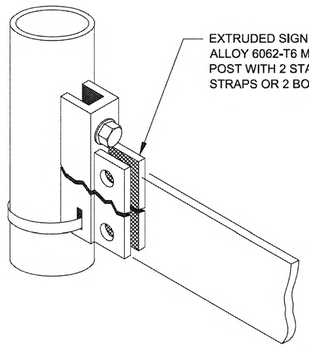
KTN: FRONT, MILL AND STEDMAN
STREETS RECONSTRUCTION
PROJECT #Z68160000

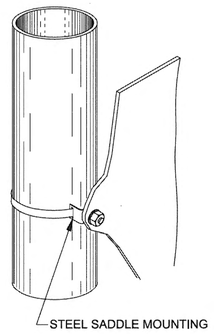
PIPE HAND RAIL DETAILS

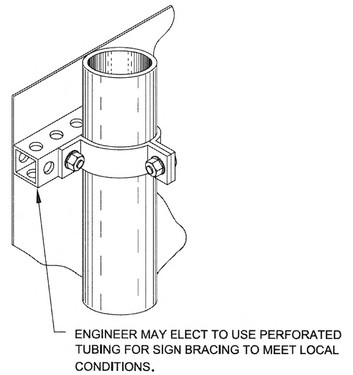
FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP 4\Civil\ACAD\1900.03-E-Details.dwg | DATE 8/16/2017 11:36 | LAYOUT E15 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	E16	140



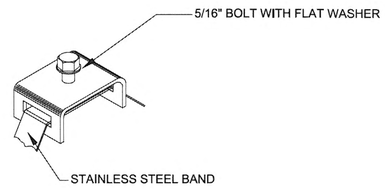


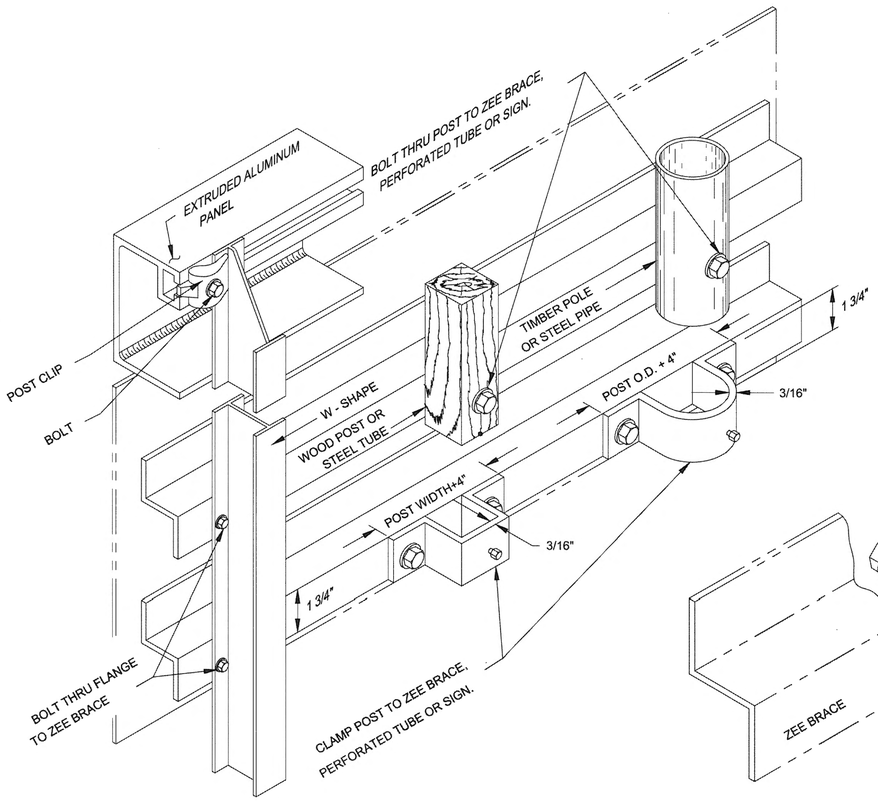


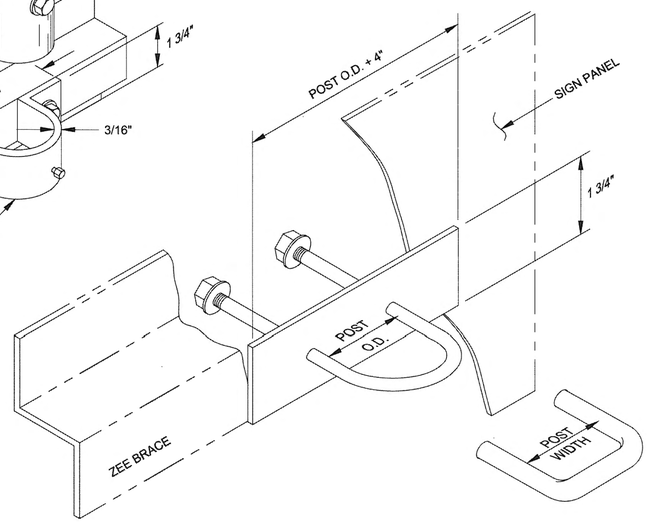


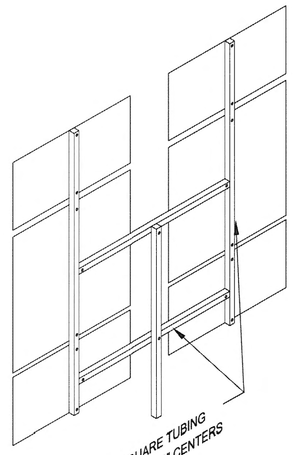
GENERAL NOTES:

1. DETAILS SHOWN INDICATE GENERAL DESIGN ONLY. DIMENSIONS AND DESIGN MAY VARY AMONG THE MANUFACTURERS.
2. INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POST (EXCEPT PERFORATED TUBING).
3. PROTECT SIGN POSTS INSTALLED USING DRIVING METHODS WITH DRIVE CAPS DURING INSTALLATION.
4. BOLT BRACES TO POSTS AT EACH POINT WHERE THEY CROSS POSTS.
5. INSTALL SIGNS WITH TOP OF POST, MOUNTING BRACKETS, ETC. WITH A MINIMUM OF 3" BELOW TOP OF SIGN.
6. PAINT ALL SIGN MOUNTING FASTENERS ON SIGN FACE A COLOR CLOSELY MATCHING THE SIGN FACE.
7. ATTACH ALL SIGNS, ZEES AND BRACES MOUNTED TO THE POSTS WITH 5/16" BOLTS.
8. FURNISH ALL ALUMINUM NUTS, BOLTS AND WASHERS WITH ANODIZED FINISH.









FASTENER SPECIFICATION TABLE				
FASTENERS		ALUMINUM	STEEL	STAINLESS STEEL
BOLTS	MACHINE CARRIAGE "U"	2024-T4	A-307	A-276
NUTS	REGULAR	6061-T6	A-307	A-276
	LOCK	2017-T4		
WASHERS		2024-T4	A-36	A-276
POST CLIP		356-T6		

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: Date: 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907 522-1707 VOICE
907 522-3404 FAX
WWW.RMCONSULT.COM
CERT. OF AUTH. NO.
AECC111

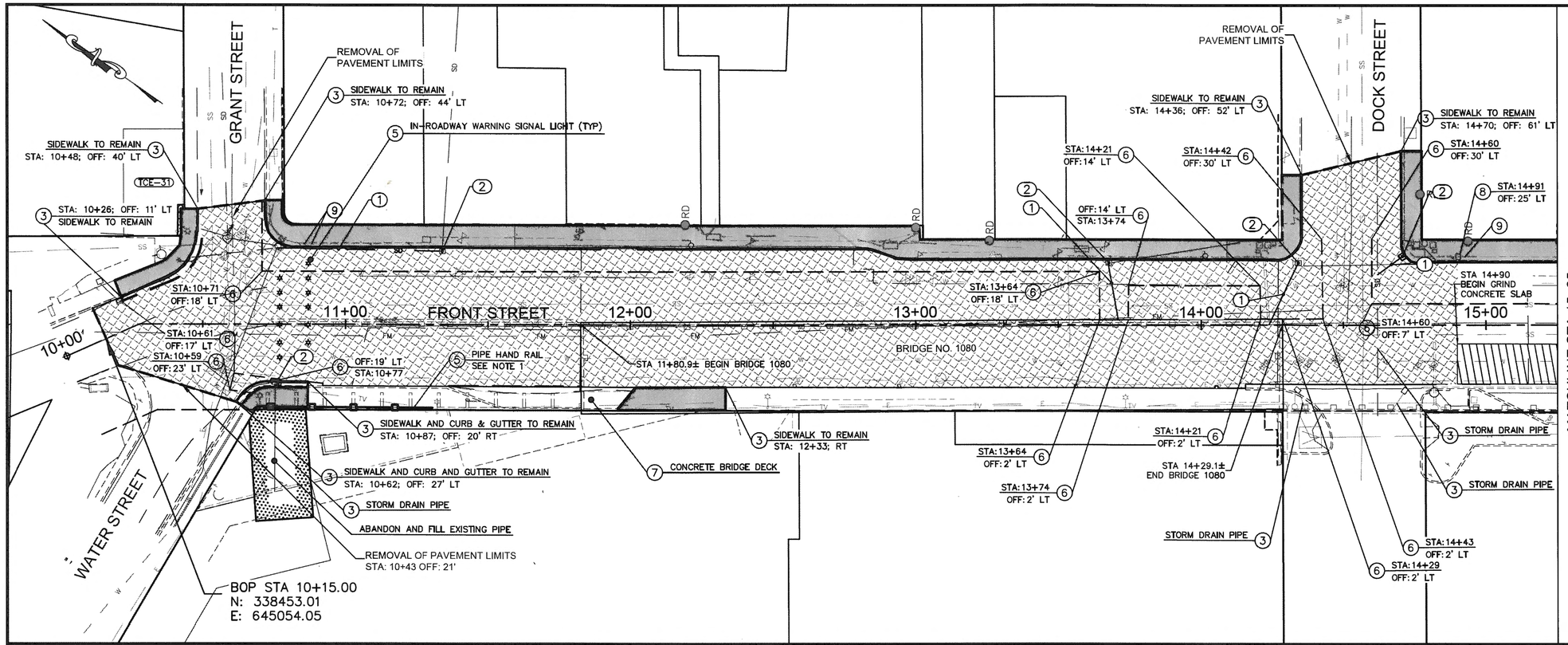
STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
6/14/17
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

SIGN TO SIGN POST CONNECTIONS

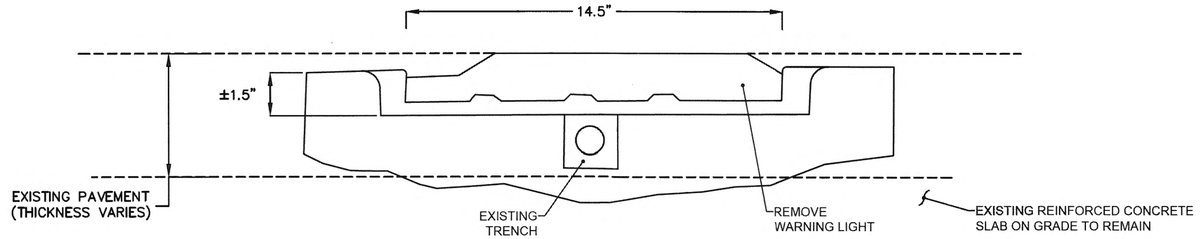
FILE: Z:\project\1900.03 DOT_SE Ketchikan Mill Stedman NTP AC(v11\ACAD\1900.03-E-Details.dwg | LAYOUT: E16 | DATE: 6/14/2017 10:18 | DESIGNED | CHECKED | DRAFTED



LEGEND	
	REMOVAL OF SIDEWALK
	REMOVAL OF PAVEMENT
	PIPE HANDRAIL
	REMOVAL OF 7.5 INCH CONCRETE SLAB
	GRIND 7.5-INCH CONCRETE SLAB
☼	IN-ROADWAY WARNING SIGNAL LIGHT
	REMOVAL OF CURB AND GUTTER

BUBBLE LEGEND:

1. REMOVAL OF CULVERT PIPE
2. REMOVAL OF STORM DRAIN STRUCTURE
3. EXISTING TO REMAIN
4. DECOMMISSION DOWN DRAIN (NOT USED)
5. REMOVAL OF STRUCTURES AND OBSTRUCTIONS
6. REMOVAL OF CONCRETE SLAB
7. DO NOT DISTURB
8. REMOVAL OF MAIL COLLECTION BOX
9. REMOVAL OF CITY-OWNED AMENITY

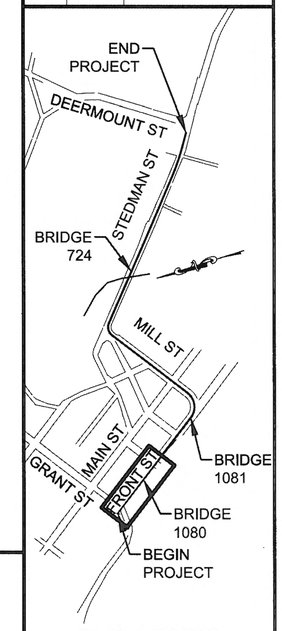


IN-ROAD WARNING SIGNAL LIGHT REMOVAL

SHEET NOTES:

1. GRIND PIPE HAND RAIL HARDWARE OFF FLUSH WITH SIDEWALK

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: Date: 1/27/20



PLAN LEGEND

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER
9/8/17

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

DEMOLITION PLAN
BOP TO STA 15+25

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F1	140

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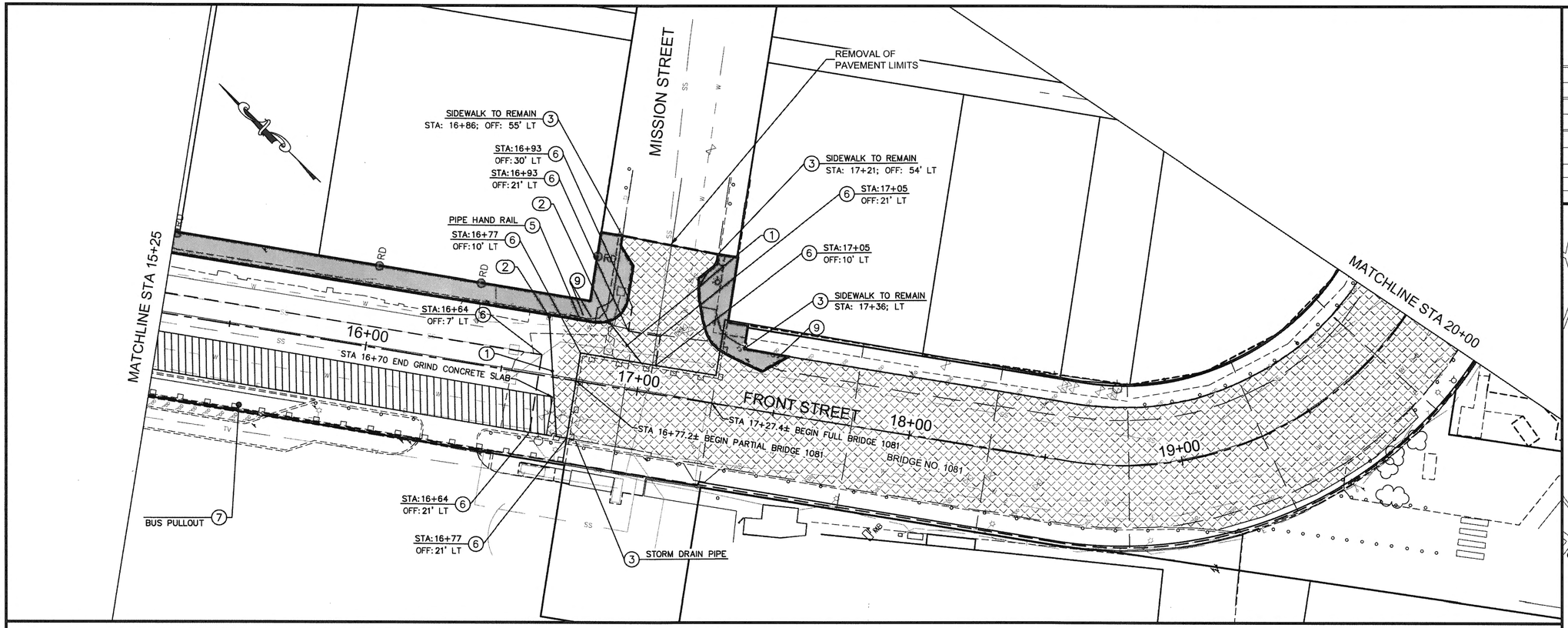

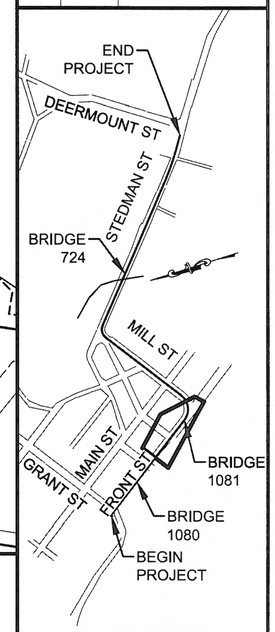

PLAN LEGEND

LEGEND	
	REMOVAL OF SIDEWALK
	REMOVAL OF PAVEMENT
	PIPE HANDRAIL
	REMOVAL OF 7.5 INCH CONCRETE SLAB
	GRIND 7.5-INCH CONCRETE SLAB
	IN-ROADWAY WARNING SIGNAL LIGHT
	REMOVAL OF CURB AND GUTTER

BUBBLE LEGEND:

1. REMOVAL OF CULVERT PIPE
2. REMOVAL OF STORM DRAIN STRUCTURE
3. EXISTING TO REMAIN
4. DECOMMISSION DOWN DRAIN (NOT USED)
5. REMOVAL OF STRUCTURES AND OBSTRUCTIONS
6. REMOVAL OF CONCRETE SLAB
7. DO NOT DISTURB
8. REMOVAL OF MAIL COLLECTION BOX
9. REMOVAL OF CITY-OWNED AMENITY

S# MUNASOA

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
P.E. Date 1/27/20

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

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RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

DEMOLITION PLAN
STA 15+25 TO STA 20+00

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F2	140

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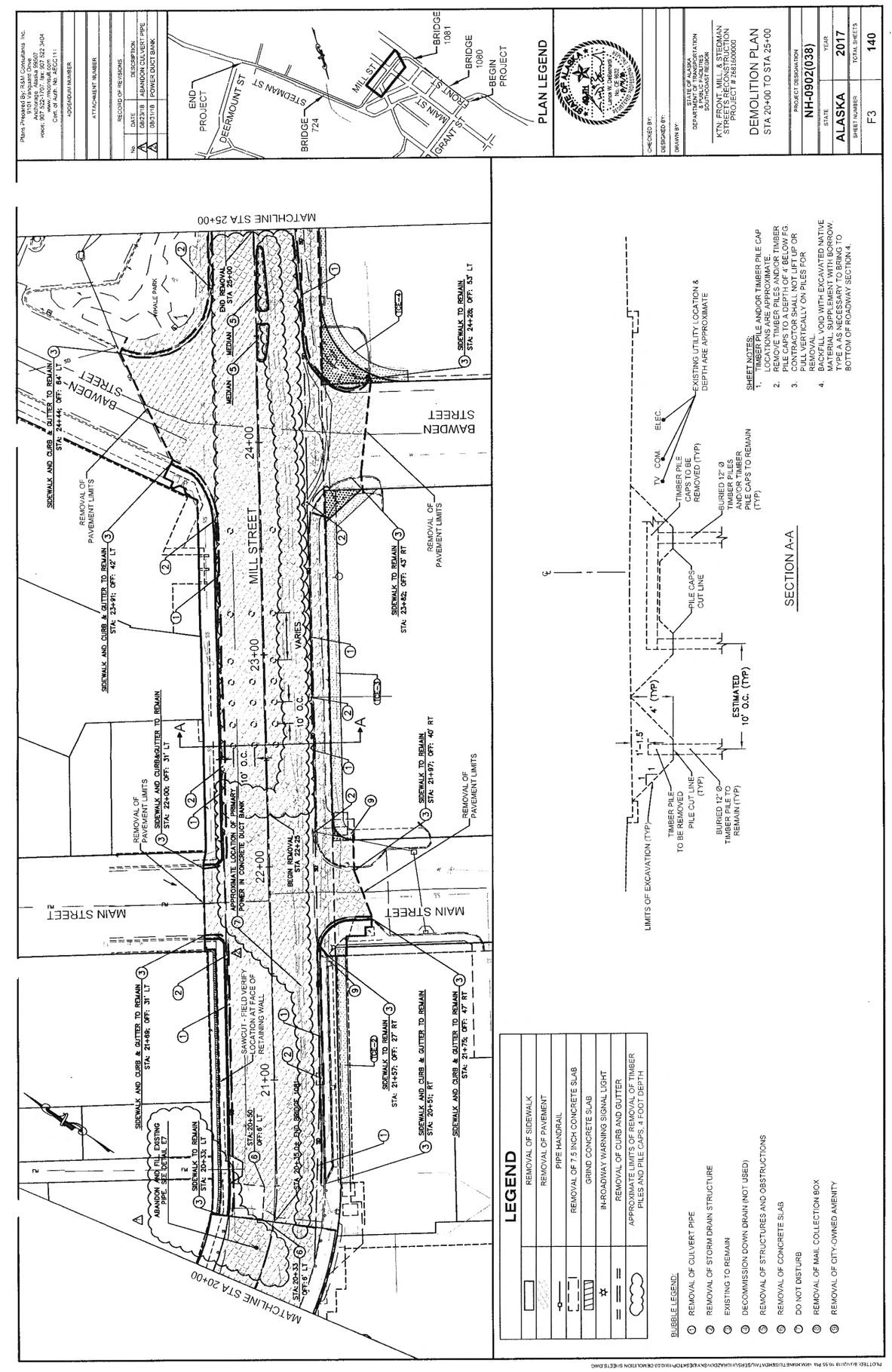
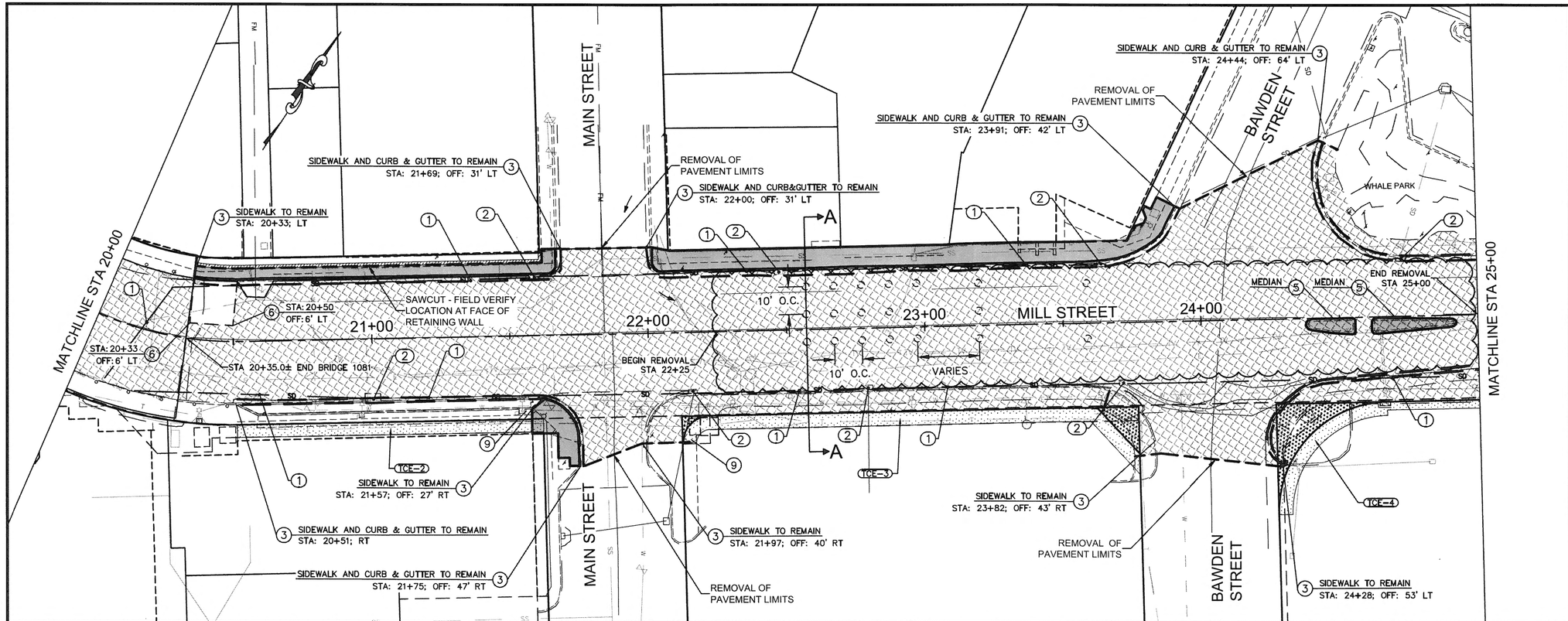
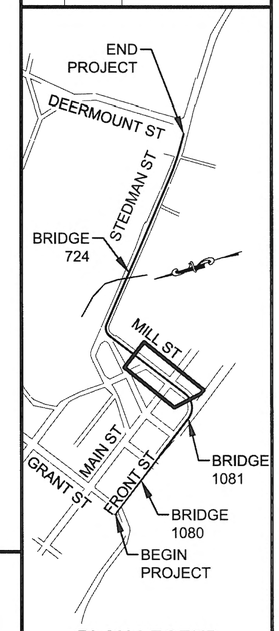

MATCHLINE STA 25+00
MATCHLINE STA 20+00
MILL STREET
BAMDEN STREET
MAIN STREET
SIDEWALK AND CURB & GUTTER TO REMAIN STA. 24+41; OFF: 42' RT
SIDEWALK AND CURB & GUTTER TO REMAIN STA. 23+91; OFF: 41' LT
SIDEWALK AND CURB&GUTTER TO REMAIN STA. 23+00; OFF: 31' LT
SIDEWALK TO REMAIN STA. 23+42; OFF: 42' RT
SIDEWALK TO REMAIN STA. 23+67; OFF: 40' RT
SIDEWALK AND CURB & GUTTER TO REMAIN STA. 21+86; OFF: 39' LT
SIDEWALK TO REMAIN STA. 21+53; OFF: 37' RT
SIDEWALK AND CURB & GUTTER TO REMAIN STA. 21+76; OFF: 43' RT
SIDEWALK AND CURB & GUTTER TO REMAIN STA. 20+52; OFF: 41' RT
SIDEWALK TO REMAIN STA. 20+13; OFF: 41' LT
SIDEWALK TO REMAIN STA. 20+13; OFF: 41' LT
REMOVAL OF PAVEMENT LIMITS
REMOVAL OF SIDEWALK
REMOVAL OF CURB & GUTTER
REMOVAL OF CONCRETE SLAB
REMOVAL OF STRUCTURES AND OBSTRUCTIONS
POWER IN CONDUIT BURY
ANCHOR (NOT TO REMAIN) STA. 20+13; OFF: 41' LT
APPROXIMATE LIMITS OF REMOVAL OF TIMBER PILES AND PILE CAPS 4 FOOT DEPTH
SEE DETAIL
SEE NOTE 4
SEE NOTE 5
SEE NOTE 6
SEE NOTE 7
SEE NOTE 8
SEE NOTE 9
SEE NOTE 10
SEE NOTE 11
SEE NOTE 12
SEE NOTE 13
SEE NOTE 14
SEE NOTE 15
SEE NOTE 16
SEE NOTE



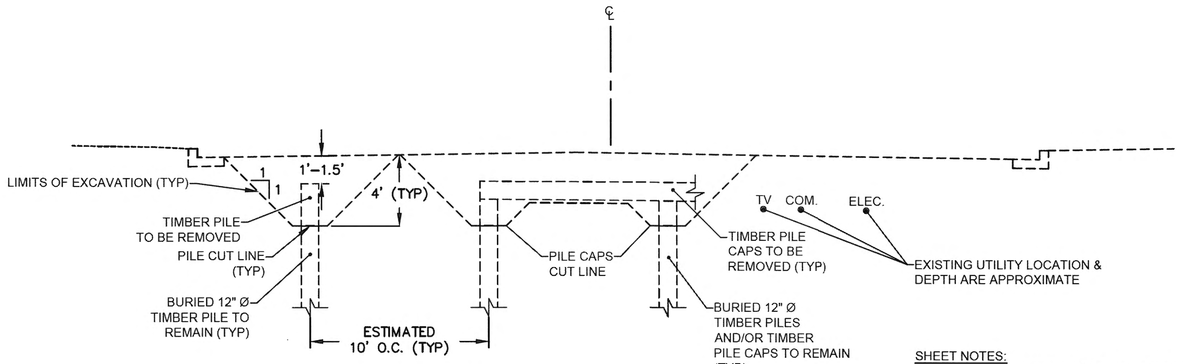


PLAN LEGEND

LEGEND	
	REMOVAL OF SIDEWALK
	REMOVAL OF PAVEMENT
	PIPE HANDRAIL
	REMOVAL OF 7.5 INCH CONCRETE SLAB
	GRIND CONCRETE SLAB
	IN-ROADWAY WARNING SIGNAL LIGHT
	REMOVAL OF CURB AND GUTTER
	APPROXIMATE LIMITS OF REMOVAL OF TIMBER PILES AND PILE CAPS, 4 FOOT DEPTH

BUBBLE LEGEND:

① REMOVAL OF CULVERT PIPE
② REMOVAL OF STORM DRAIN STRUCTURE
③ EXISTING TO REMAIN
④ DECOMMISSION DOWN DRAIN (NOT USED)
⑤ REMOVAL OF STRUCTURES AND OBSTRUCTIONS
⑥ REMOVAL OF CONCRETE SLAB
⑦ DO NOT DISTURB
⑧ REMOVAL OF MAIL COLLECTION BOX
⑨ REMOVAL OF CITY-OWNED AMENITY



SECTION A-A

SHEET NOTES:

1. TIMBER PILE AND/OR TIMBER PILE CAP LOCATIONS ARE APPROXIMATE.
2. REMOVE TIMBER PILES AND/OR TIMBER PILE CAPS TO A DEPTH OF 4' BELOW FG.
3. CONTRACTOR SHALL NOT LIFT UP OR PULL VERTICALLY ON PILES FOR REMOVAL.
4. BACKFILL VOID WITH EXCAVATED NATIVE MATERIAL. SUPPLEMENT WITH BORROW, TYPE A AS NECESSARY TO BRING TO BOTTOM OF ROADWAY SECTION 4.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By _____ Date 1/27/20

Plans Prepared By: R&M Consultants, Inc.
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Anchorage, Alaska 99507
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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER
8/15/17

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

DEMOLITION PLAN
STA 20+00 TO STA 25+00

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F3	140

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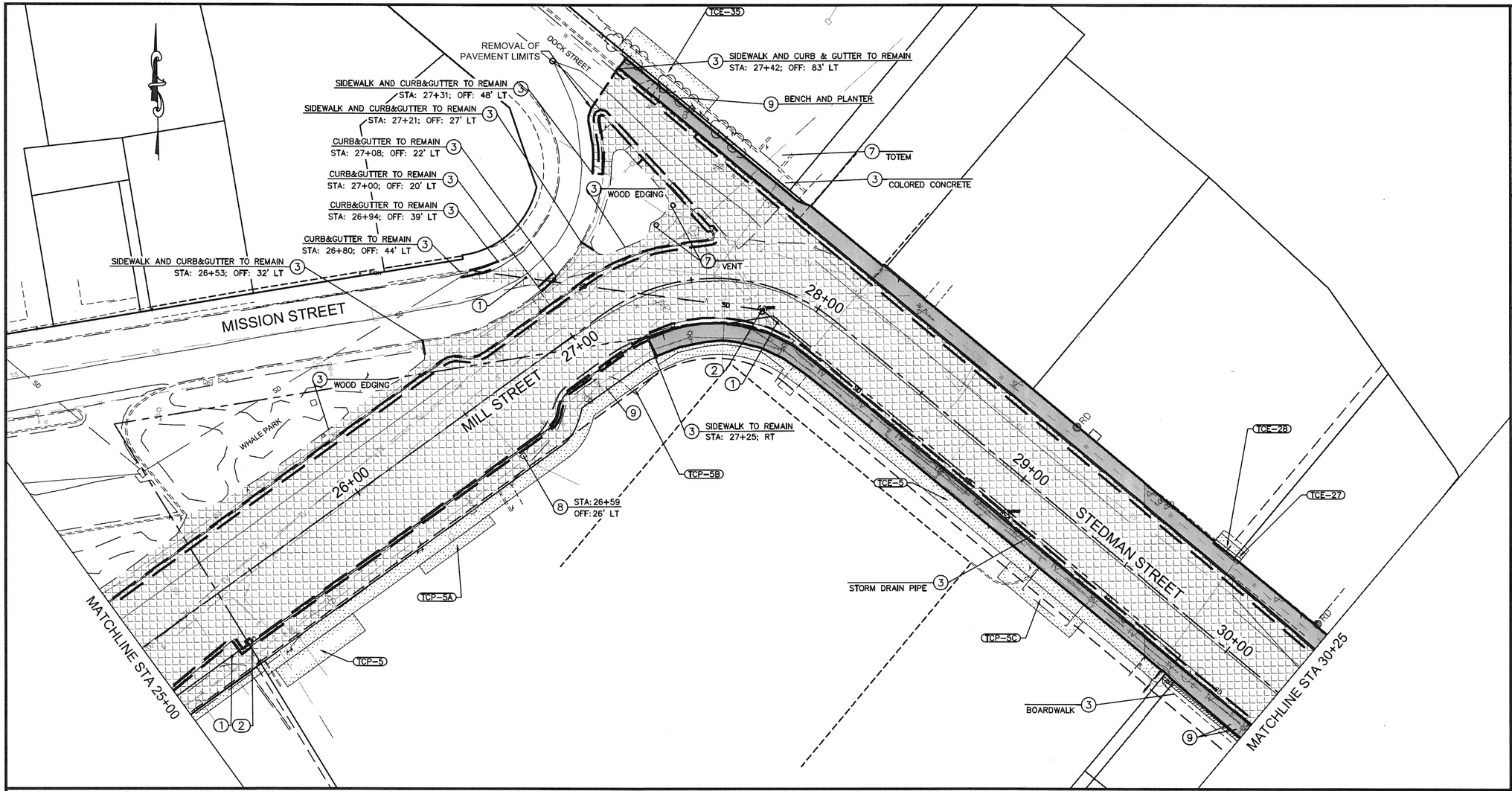

BUBBLE LEGEND:

1. REMOVAL OF CULVERT PIPE
2. REMOVAL OF STORM DRAIN STRUCTURE
3. EXISTING TO REMAIN
4. DECOMMISSION DOWN DRAIN (NOT USED)
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8. REMOVAL OF MAIL COLLECTION BOX
9. REMOVAL OF CITY-OWNED AMENITY

LEGEND	
	REMOVAL OF SIDEWALK
	REMOVAL OF PAVEMENT
	PIPE HANDRAIL
	REMOVAL OF 7.5 INCH CONCRETE SLAB
	GRIND CONCRETE SLAB
	IN-ROADWAY WARNING SIGNAL LIGHT
	REMOVAL OF CURB AND GUTTER

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
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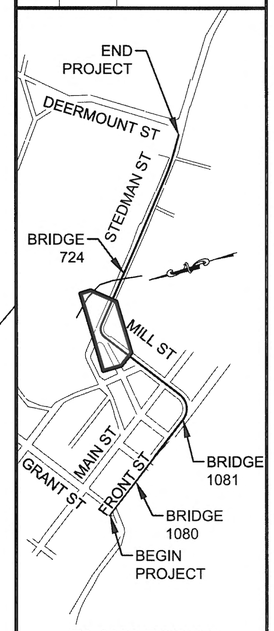

PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
11/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

DEMOLITION PLAN
STA 25+00 TO STA 30+25

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F4	140

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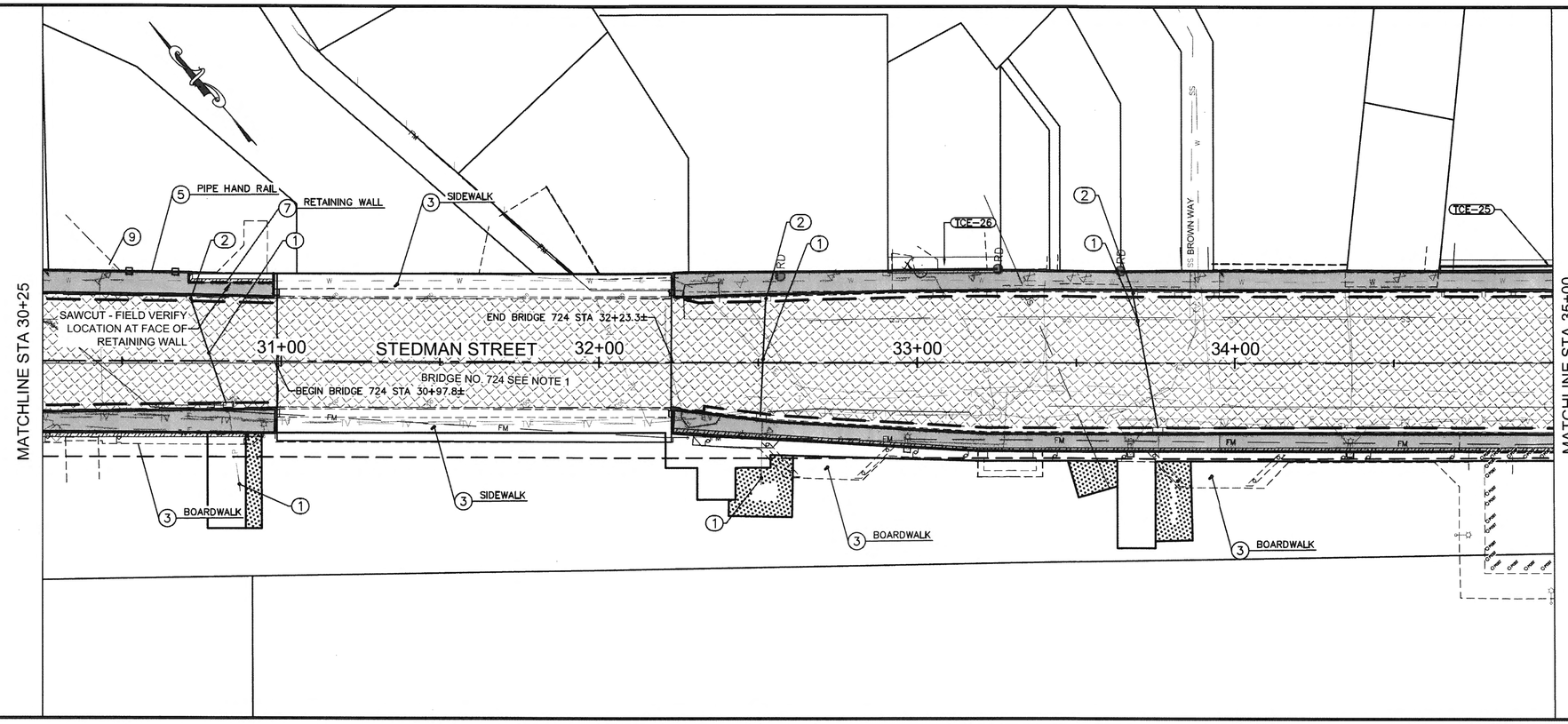


LEGEND

	REMOVAL OF SIDEWALK
	REMOVAL OF PAVEMENT
	PIPE HANDRAIL
	REMOVAL OF 7.5 INCH CONCRETE SLAB
	GRIND CONCRETE SLAB
	IN-ROADWAY WARNING SIGNAL LIGHT
	REMOVAL OF CURB AND GUTTER

BUBBLE LEGEND:

① REMOVAL OF CULVERT PIPE
② REMOVAL OF STORM DRAIN STRUCTURE
③ EXISTING TO REMAIN
④ DECOMMISSION DOWN DRAIN (NOT USED)
⑤ REMOVAL OF STRUCTURES AND OBSTRUCTIONS
⑥ REMOVAL OF CONCRETE SLAB
⑦ DO NOT DISTURB
⑧ REMOVAL OF MAIL COLLECTION BOX
⑨ REMOVAL OF CITY-OWNED AMENITY

SHEET NOTE:
1. REFER TO BRIDGE PLANS FOR CONCRETE REMOVAL ON BRIDGE 724

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE _____ Date 1/17/18

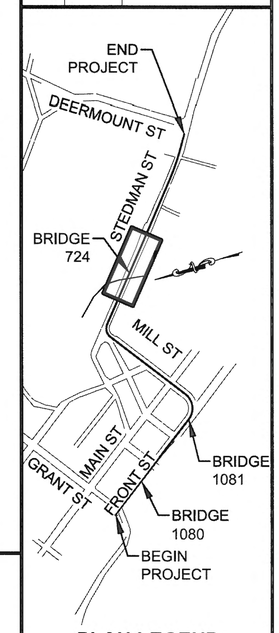
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9832
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:
DESIGNED BY:
DRAWN BY:

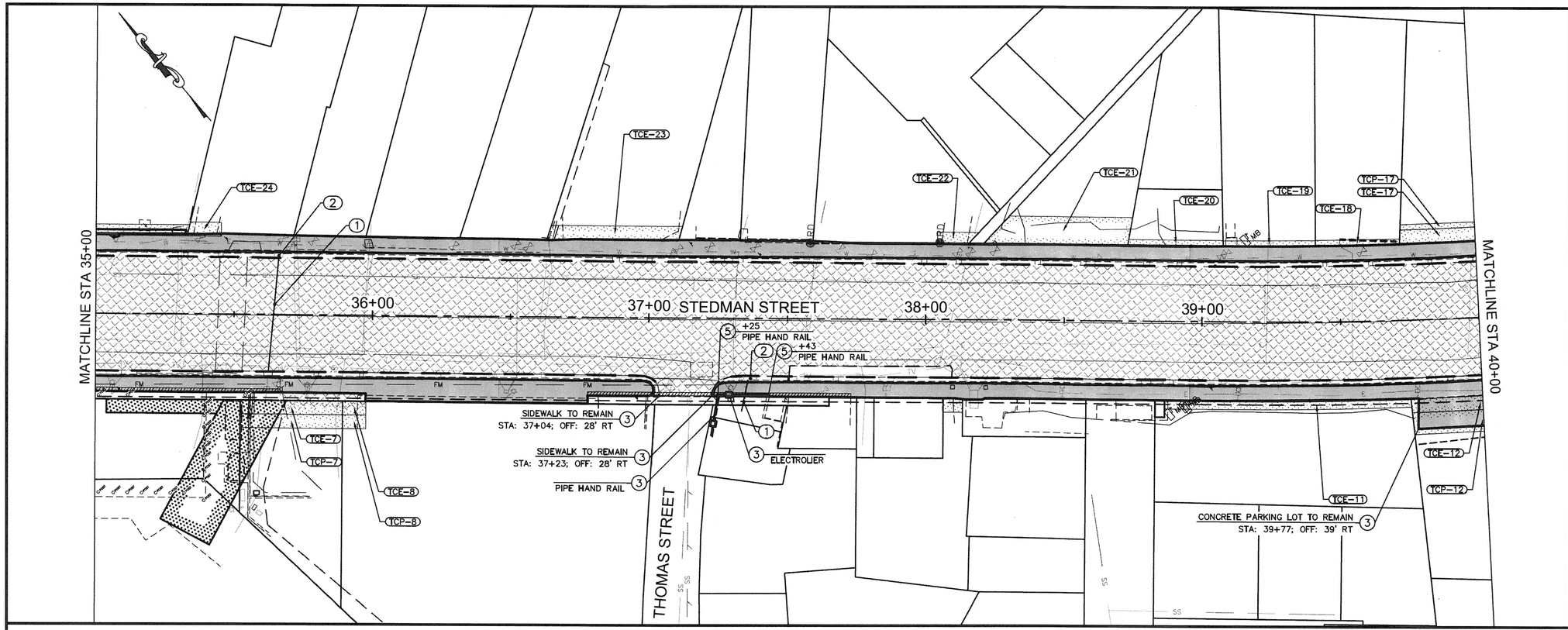
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

DEMOLITION PLAN
STA 30+25 TO STA 35+00

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	**2017**
SHEET NUMBER	TOTAL SHEETS
F5	**140**

PLOTTED: 8/15/2017 3:56 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-DEMOLITION SHEETS.DWG



LEGEND	
	REMOVAL OF SIDEWALK
	REMOVAL OF PAVEMENT
	PIPE HANDRAIL
	REMOVAL OF 7.5 INCH CONCRETE SLAB
	GRIND CONCRETE SLAB
	IN-ROADWAY WARNING SIGNAL LIGHT
	REMOVAL OF CURB AND GUTTER

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PE Date 1/27/20

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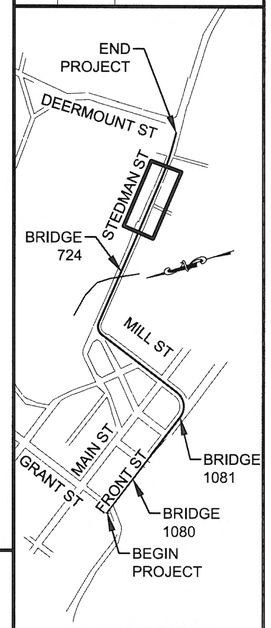


PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
R/M/T
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:
DESIGNED BY:
DRAWN BY:

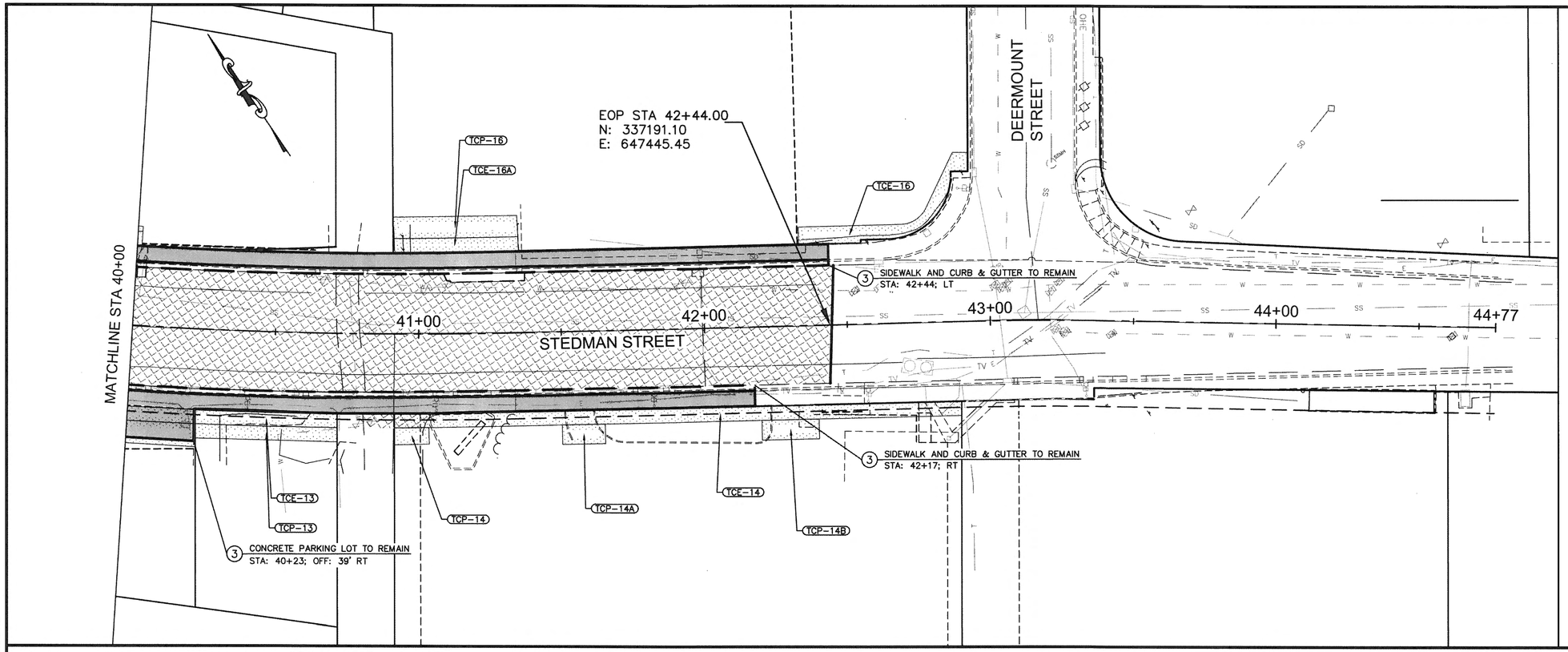
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

DEMOLITION PLAN
STA 35+00 TO STA 40+00

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	**2017**
SHEET NUMBER	TOTAL SHEETS
F6	**140**

PLOTTED: 6/14/2017 11:33 AM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-DEMOLITION SHEETS.DWG



LEGEND

	REMOVAL OF SIDEWALK
	REMOVAL OF PAVEMENT
	PIPE HANDRAIL
	REMOVAL OF 7.5 INCH CONCRETE SLAB
	GRIND CONCRETE SLAB
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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: [signature] Date: 1/27/20

Plans Prepared By: R&M Consultants, Inc.
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ADDENDUM NUMBER
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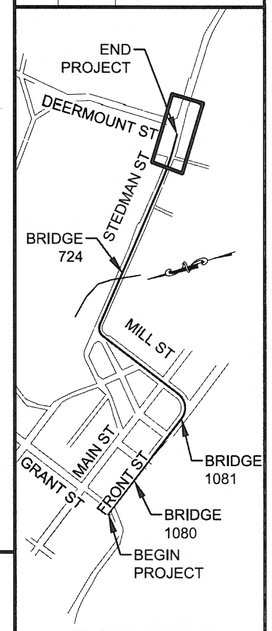
No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
R/M/T
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:
DESIGNED BY:
DRAWN BY:

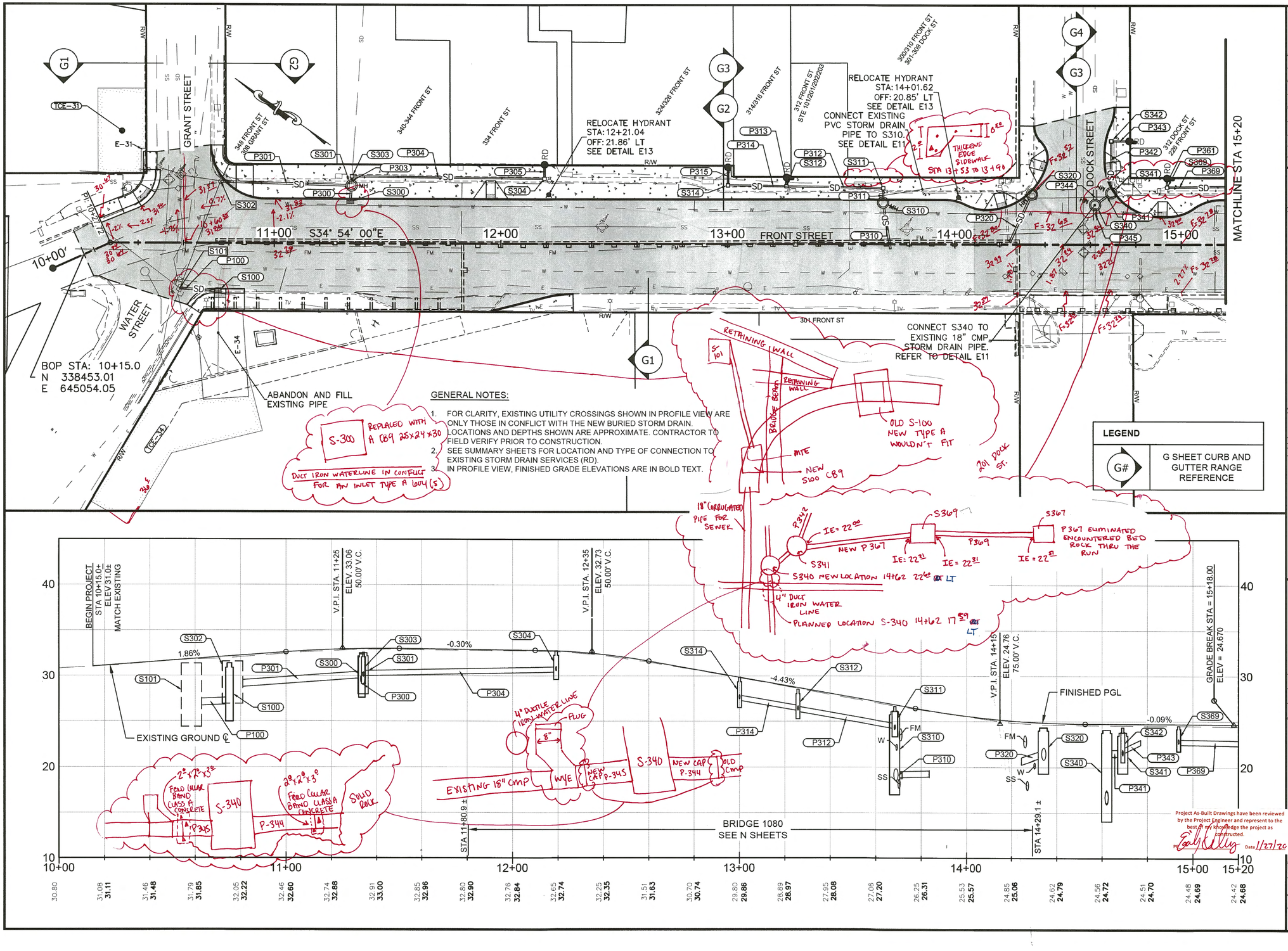
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

DEMOLITION PLAN
STA 40+00 TO EOP

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F7	140

PLOTTED: 6/14/2017 11:33 AM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-DEMOLITION SHEETS.DWG



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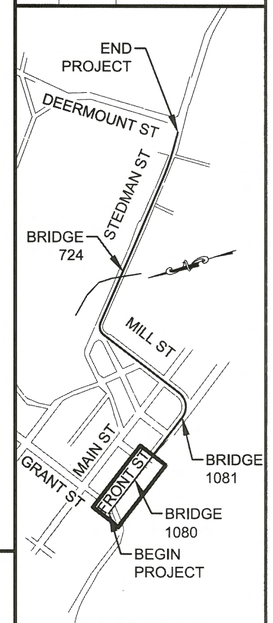


PLAN LEGEND



CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

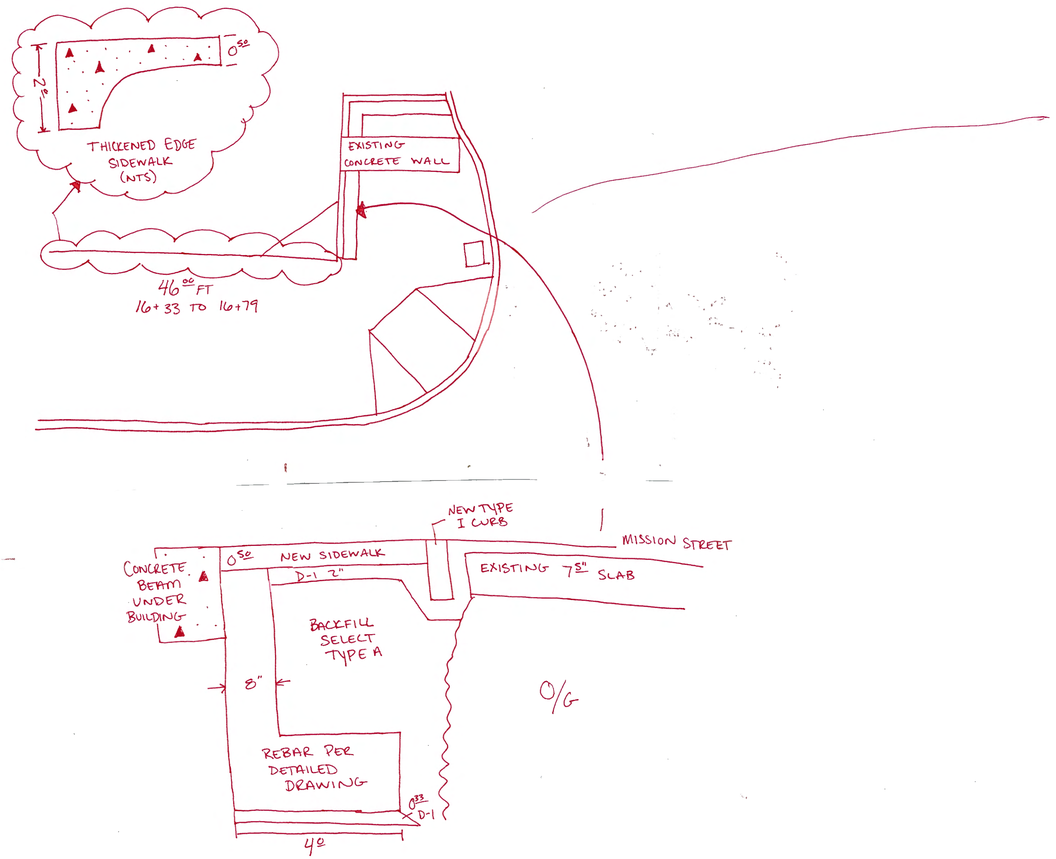
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

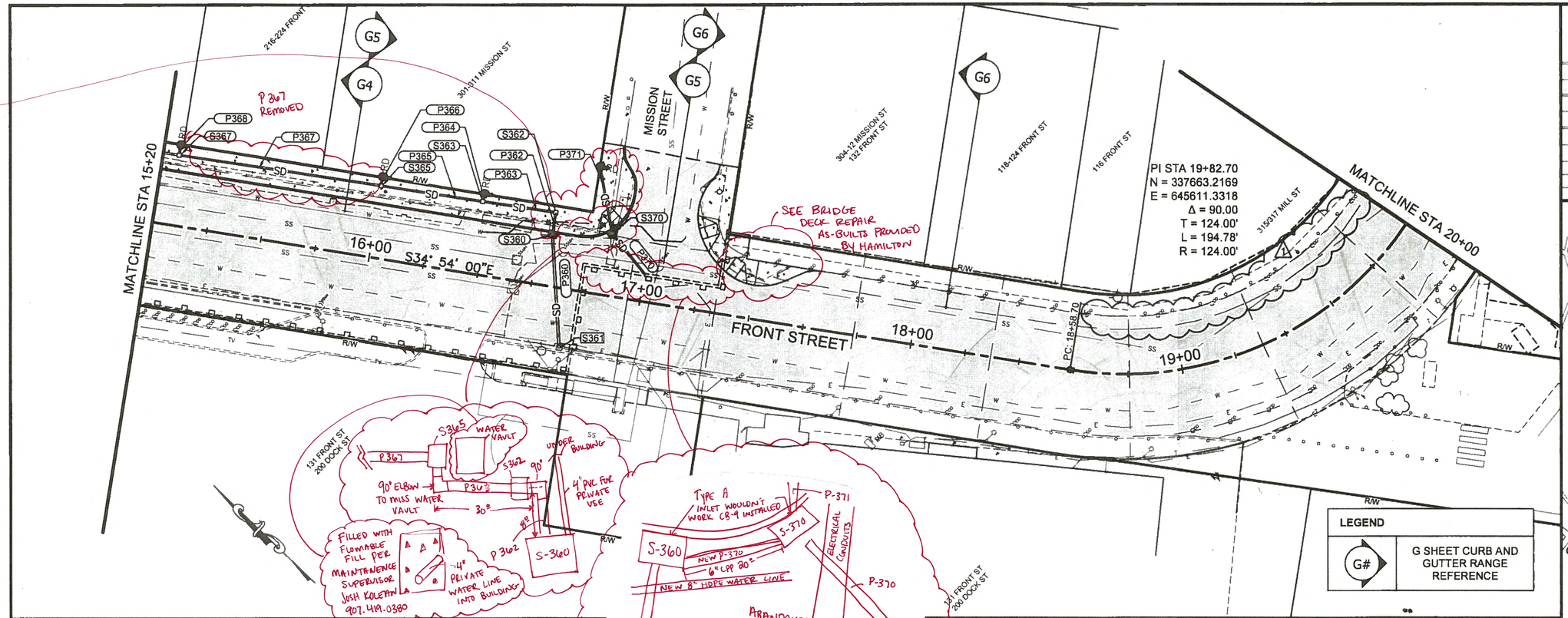
PLAN & PROFILE

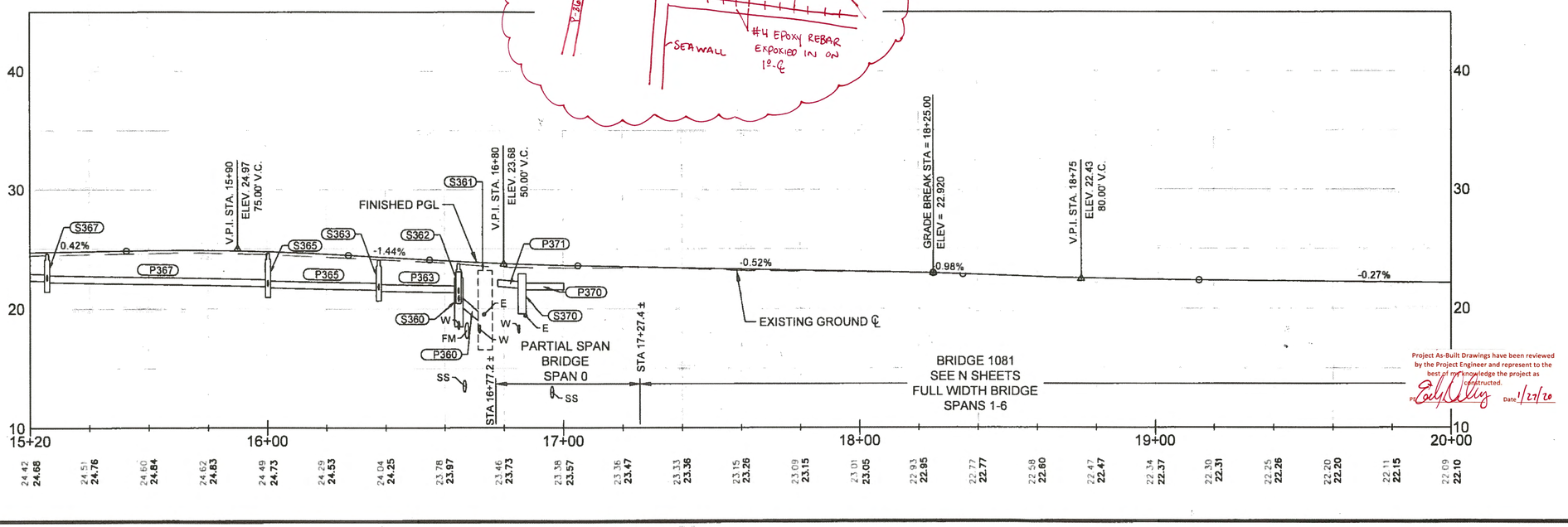
BOP TO STA 15+20

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F8	140

PLOTTED: 10/17/2017 3:42 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-F-SHEETS.DWG


0"
2"
THICKENED EDGE SIDEWALK (NTS)
EXISTING CONCRETE WALL
46.00 FT
16+33 TO 16+79
NEW TYPE I CURB
MISSION STREET
0"
NEW SIDEWALK
D-1 7"
EXISTING 7" SLAB
CONCRETE BEAM UNDER BUILDING
BACKFILL SELECT TYPE A
8"
O/G
REBAR PER DETAILED DRAWING
0"
D-1
42





Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of our knowledge the project as constructed.
PE Date 1/22/20

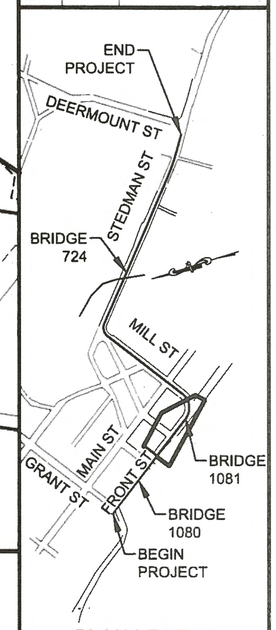
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice 907 522-1707, fax 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION
1	11/7/17	REVISED PAVEMENT LIMITS



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
11/7/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY

DESIGNED BY

DRAWN BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

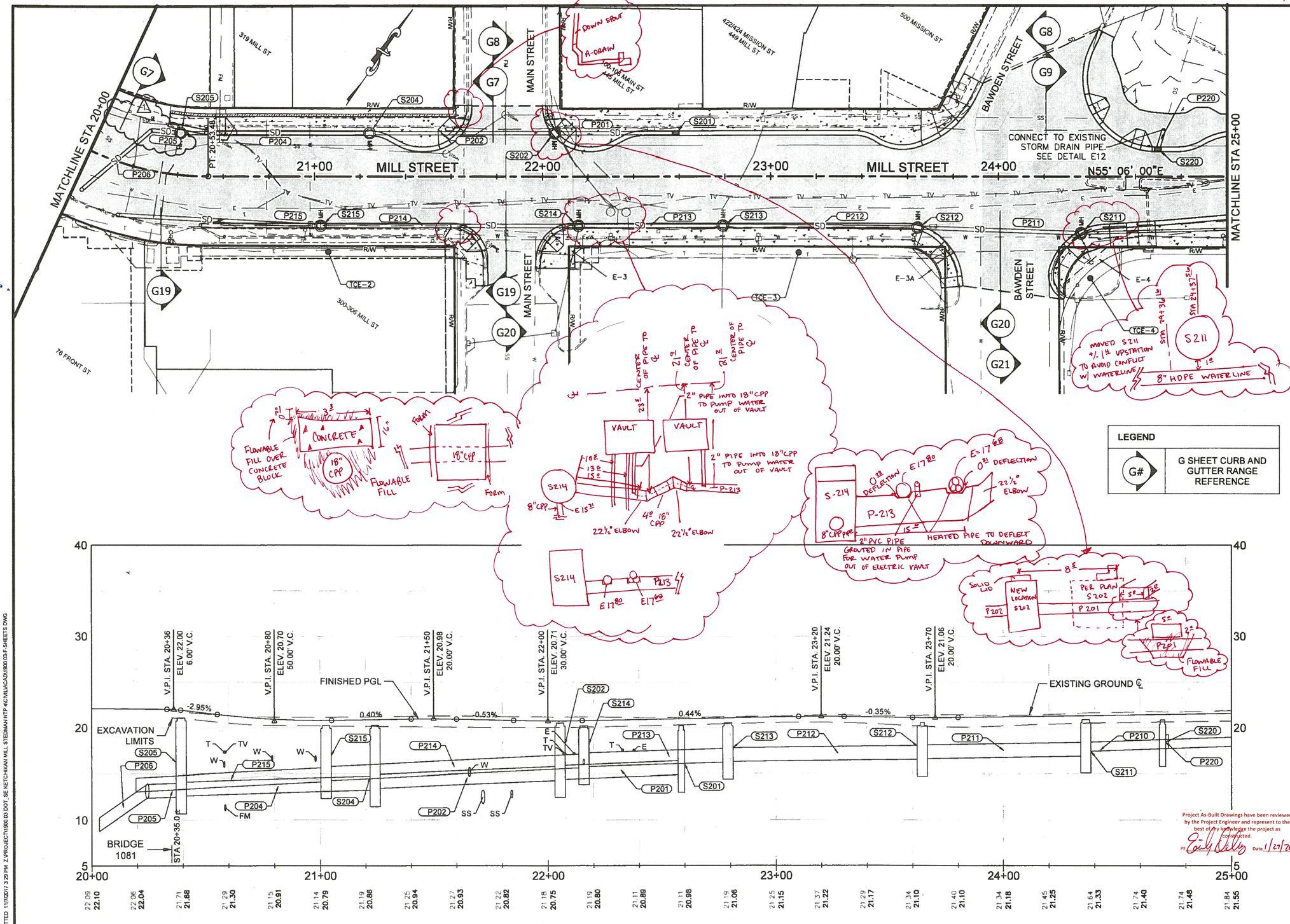
PLAN & PROFILE

STA 15+20 TO STA 20+00

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F9	140

PLOTTED: 11/7/2017 3:07 PM Z:\PROJECTS\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4C\MS\ACAD\1900.03-F-SHEETS.DWG



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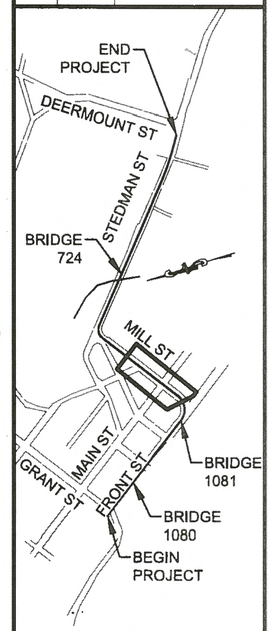
1	11/7/17	REVISED PAVEMENT LIMITS



PLAN LEGEND

STATE OF ALASKA 49TH Lance W. DeBernardi No. CE 9632 11/7/17 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

PLAN & PROFILE

STA 20+00 TO STA 25+00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F10	140

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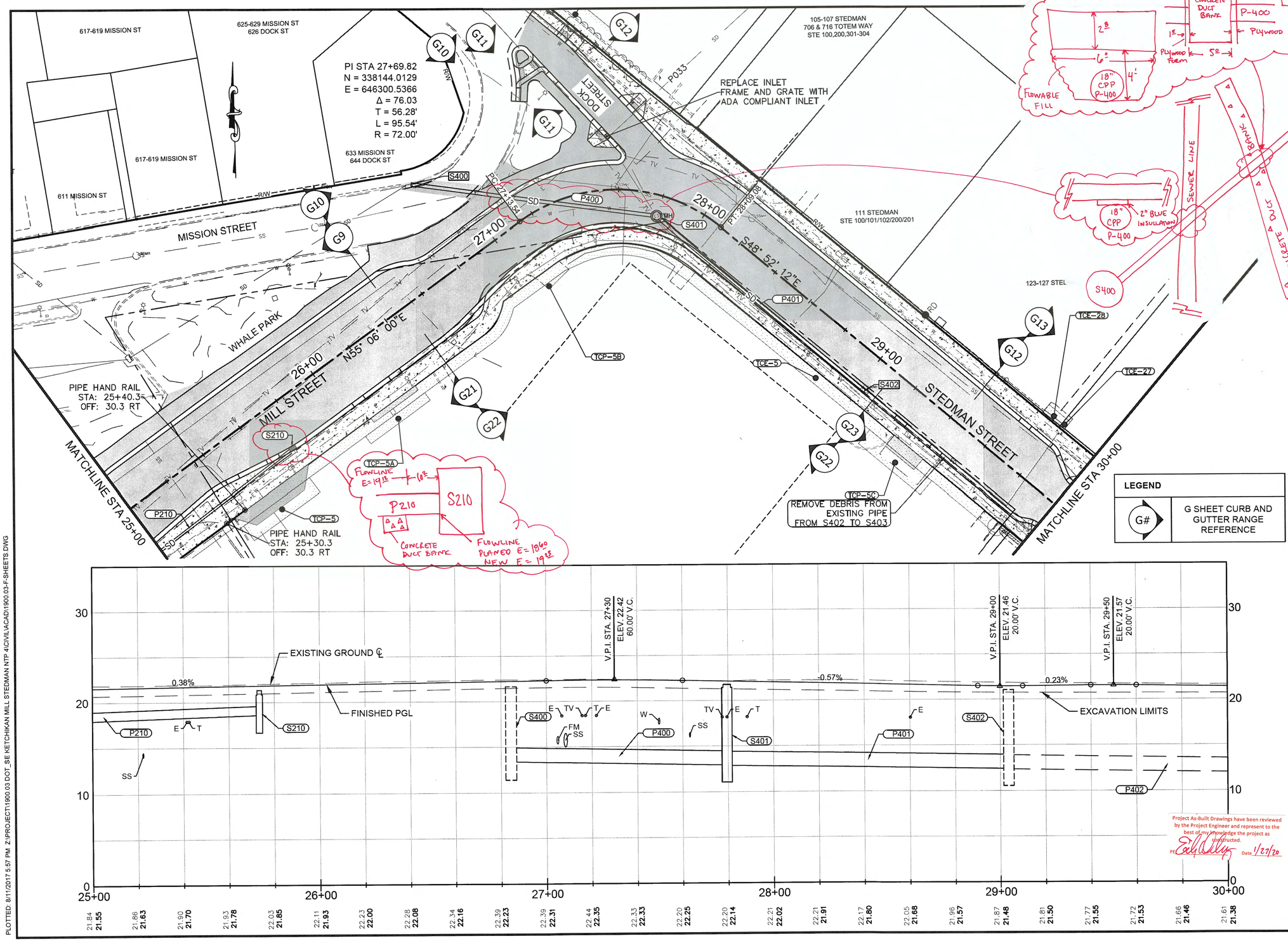
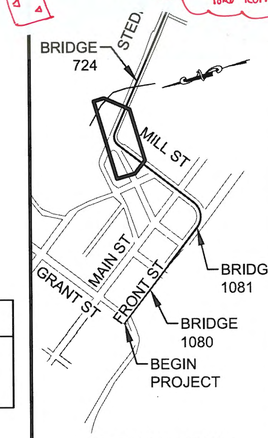




PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
9/11/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

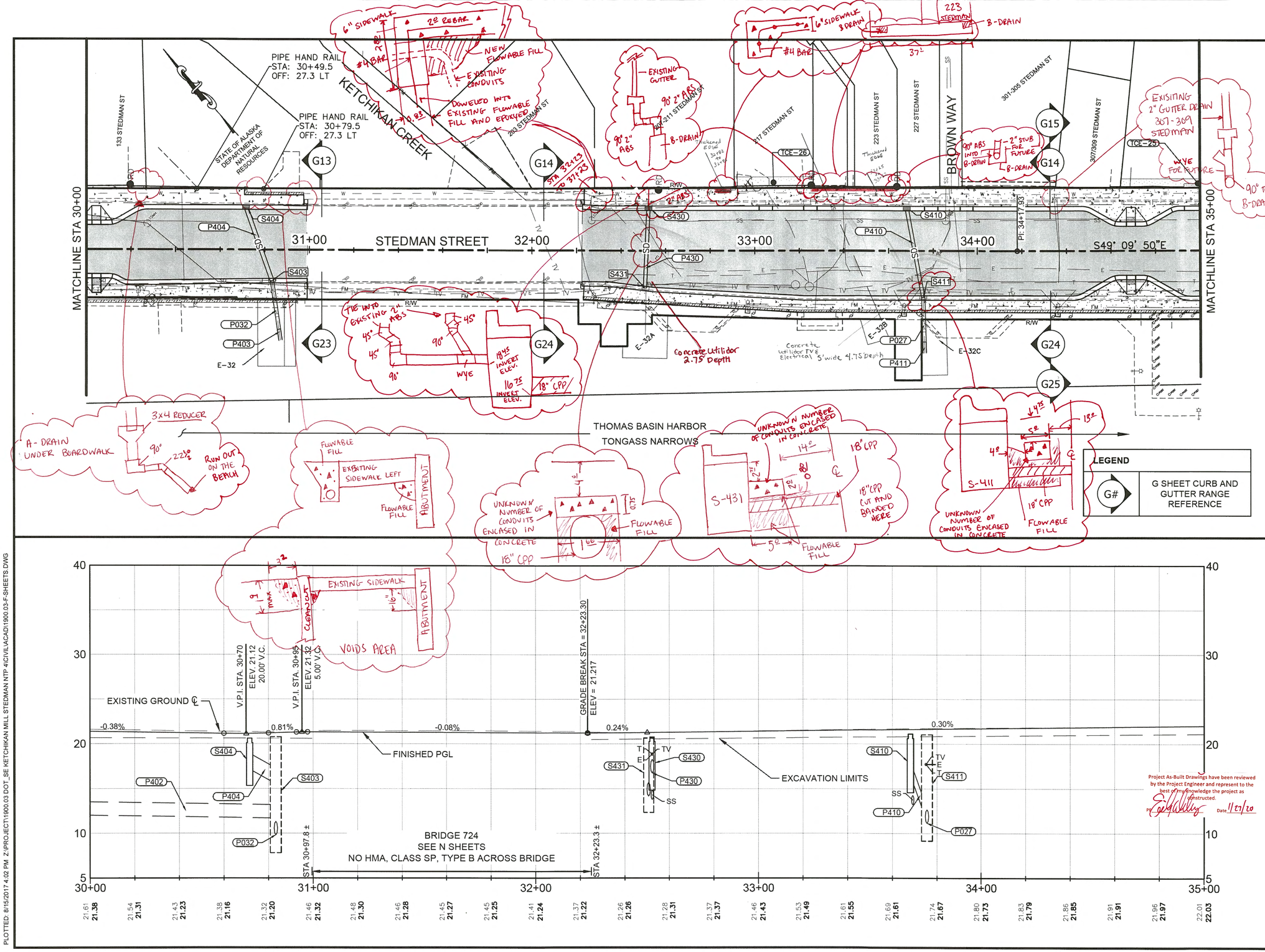
PLAN & PROFILE

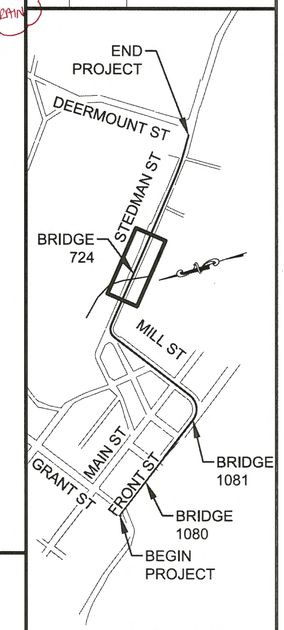
STA 25+00 TO STA 30+00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F11	140

PLOTTED: 8/11/2017 5:57 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-F-SHEETS.DWG





PLAN LEGEND

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
8/15/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: [signature] Date 1/27/20

PLAN & PROFILE

STA 30+00 TO STA 35+00

PROJECT DESIGNATION

NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F12	140

PLOTTED: 8/15/2017 4:02 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-F-SHEETS.DWG

MATCHLINE STA 35+00

MATCHLINE STA 40+00

317 STEDMAN ST

325-329 STEDMAN ST

331/333 STEDMAN ST

335 STEDMAN ST

337/339 STEDMAN ST

405 STEDMAN ST

407 STEDMAN ST

411 STEDMAN ST

STEDMAN ST 400 BLK

212 TATSUDA WAY

507 STEDMAN ST

511 STEDMAN ST

516 STEDMAN ST

342 STEDMAN ST

STEDMAN ST 300 BLK

STEDMAN ST 400 BLK

158/160 THOMAS ST

THOMAS STREET

127 INMAN ST

408 STEDMAN ST

122 INMAN ST

36+00 S49° 09' 50"E 37+00 38+00 STEDMAN STREET 39+00

PC: 39+18.75

R/W

SD

SS

E-6

E-33

E-32D

S420 S420A P420 S421 S419 P419 S418 P418

TCE-7 TCP-7 TCE-8 TCP-8 TCE-11 TCE-12 TCP-12 TCE-17 TCP-17 TCE-18 TCE-19 TCE-20 TCE-21 TCE-22 TCE-23 TCE-24 TCE-36

G15 G16 G17 G25 G26 G27

ABUTMENT LAST 4'

THICKENED EDGE SIDEWALK

3 #4 BAR DOWELED INTO ABUTMENT

0'-6" SIDEWALK

#4 BAR

STA 36+30 TO 36+56

THICKENED EDGE SIDEWALK

STA 37+37 TO 38+05

RETAINING WALL STA 37+25 TO 37+35

PIPE HAND RAIL
STA: 37+42.6
OFF: 27.7 RT

PIPE HAND RAIL
STA: 37+22.6
OFF: 27.7 RT

RECONSTRUCT TO MATCH EXISTING DRIVEWAY APPROACH

ABUTMENT

GATE VALVE

2" RIGID CONDUIT

TOP OF NUT

Concrete Utilidor - 3.1' Depth 17' RT

Concrete Utilidor 17' RT - 4' depth

5 DRAINS

DIAZ DRAIN

Root Drain

S-420 18" CPEP S-420A 8" CAP INTO C.B. 28' 4" ABS 45° 5' 4" ABS 4" 90° 1'

UNKNOWN NUMBER OF CONDUITS ENCASED IN CONCRETE S-421

18" CPP

BANDED PIPE

FLOWABLE FILL

EXISTING 3" STEEL CONDUIT (DRAIN FOR UTILITY VAULT) @ 38+05

TIE INTO 90° EXISTING STORM DRAIN PIPE

23.75' INVERT ELEVATION

S-418

18" CPP

UNKNOWN NUMBER OF CONDUITS ENCASED IN CONCRETE

V.P.I. STA. 35+30
ELEV. 22.12
30.00' V.C.

V.P.I. STA. 36+45
ELEV. 21.77
135.00' V.C.

V.P.I. STA. 39+00
ELEV. 38.57
250.00' V.C.

EXISTING GROUND

-0.30%

6.59%

FINISHED PGL

EXCAVATION LIMITS

35+00	36+00	37+00	38+00	39+00	40+00
22.01 **22.03**	22.03 **22.09**	22.06 **22.09**	22.09 **22.03**	22.14 **21.97**	22.25 **22.04**
22.46 **22.31**	22.91 **22.79**	23.53 **23.47**	24.36 **24.35**	25.47 **25.44**	26.76 **26.72**
28.10 **28.03**	29.40 **29.35**	30.68 **30.66**	31.89 **31.88**	32.99 **32.96**	33.92 **33.91**
34.85 **34.72**	35.44 **35.40**	35.93 **35.94**	36.36 **36.35**	36.63 **36.63**	36.79 **36.77**
36.77 **36.78**	36.61 **36.65**				

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE 1/22/18 DATE

LEGEND

G#	G SHEET CURB AND GUTTER RANGE REFERENCE

END PROJECT

DEERMOUNT ST

STEDMAN ST

BRIDGE 724

MILL ST

MAIN ST

GRANT ST

FRONT ST

BRIDGE 1081

BRIDGE 1080

BEGIN PROJECT

PLAN LEGEND

Plans Prepared By: R&M Consultants, Inc.
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA 49TH

Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

PLAN & PROFILE

STA 35+00 TO STA 40+00

PROJECT DESIGNATION

NH-0902(038)

STATE	YEAR
ALASKA	**2017**
SHEET NUMBER	TOTAL SHEETS
F13	**140**

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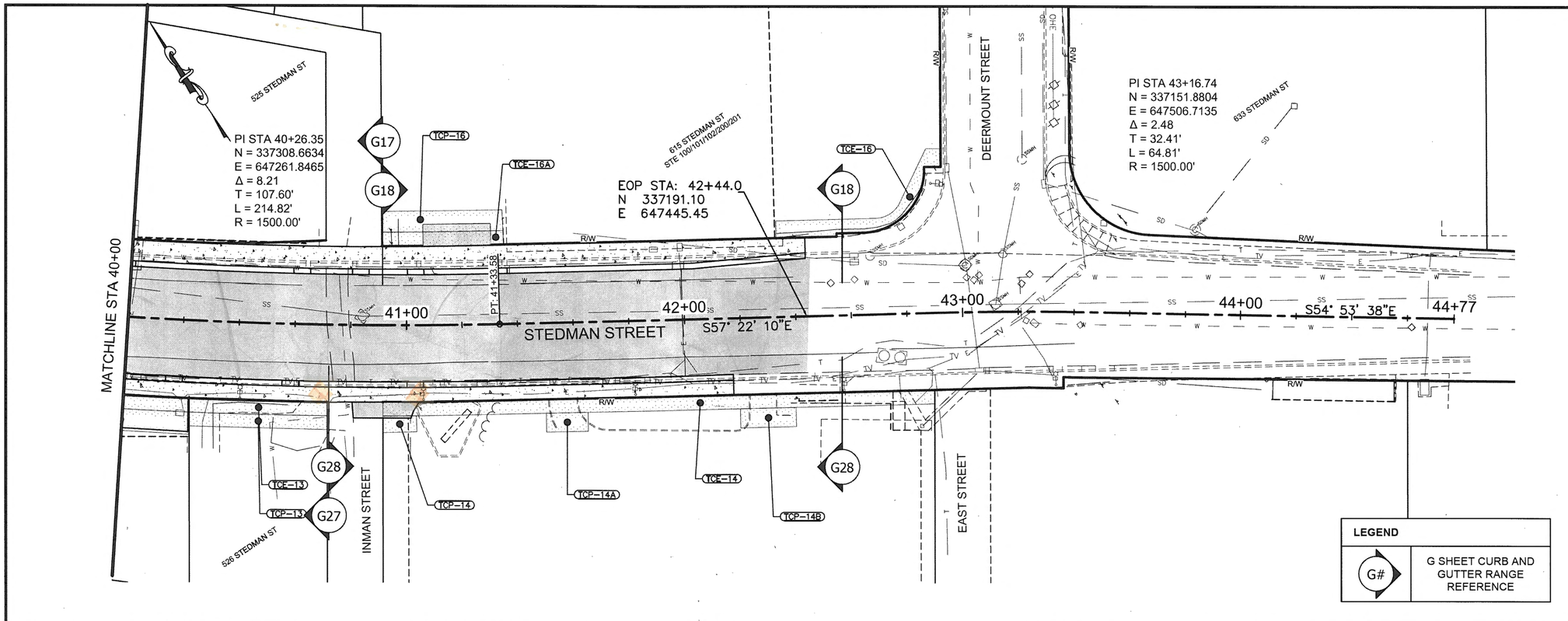
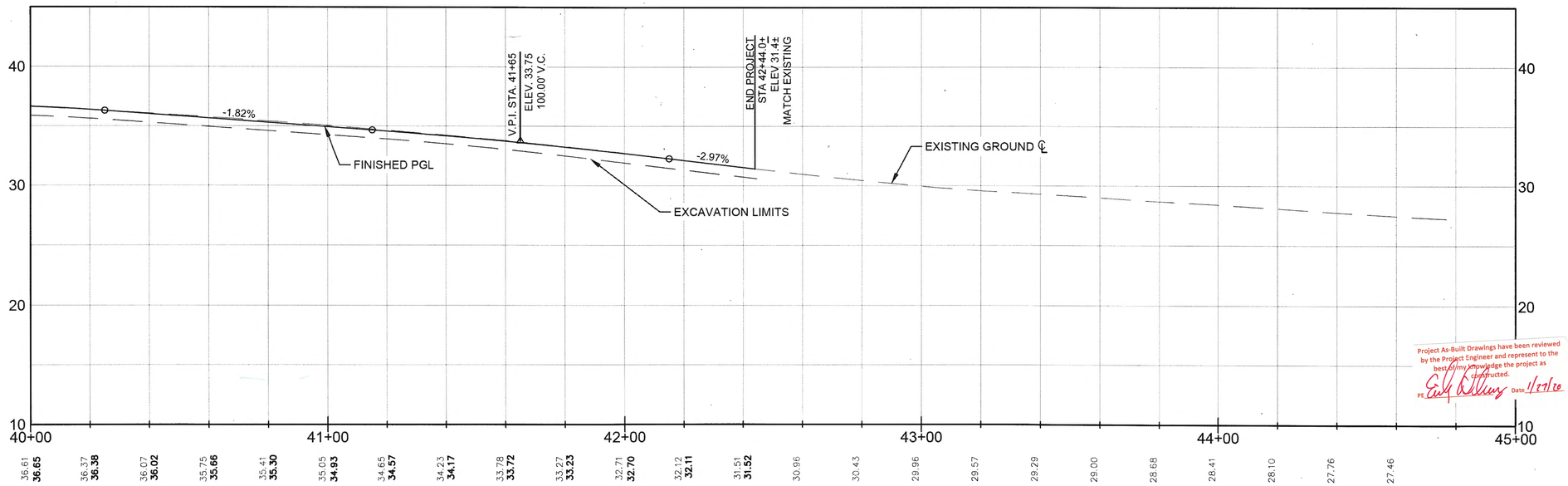




Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 4/27/18

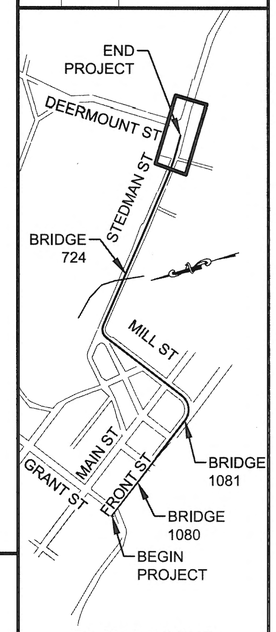
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
4/14/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

PLAN & PROFILE

STA 40+00 TO EOP

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
F14	140

PLOTTED: 6/14/2017 11:39 AM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-F-SHEETS.DWG

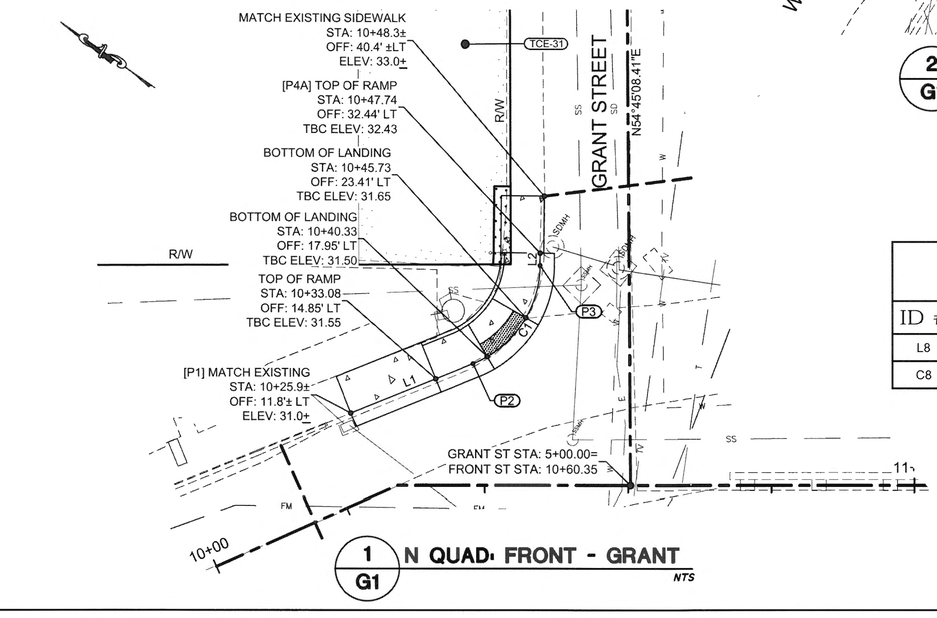
GENERAL SHEET NOTES:

1. POINTS AND LABELS IDENTIFIED WITH THE PREFIXES P, L, AND C REFER TO THE TOP BACK OF CURB (TBC).
2. THE EDGE OF PAVEMENT (EOP) CONICIDES WITH THE LIP OF GUTTER PROFILE GRADE LINE (PGL) REFERENCED IN THE CURB AND GUTTER SECTION DETAILS ON SHEET E2. THE HEIGHTS TO THE TOP BACK OF CURB (TBC) ARE GIVEN ON SHEET E2.
3. UNLESS IDENTIFIED OTHERWISE, ALL CURB AND GUTTER IS STANDARD CURB AND GUTTER.
4. DIMENSIONS/SLOPES SHOWN ON STANDARD DRAWINGS I-21.10 AND I-22.10 APPLY EXCEPT WHERE SPECIFIC DIMENSIONS ARE SHOWN ON THESE G SHEETS.
5. DETECTABLE WARNINGS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWINGS I-21.10 AND I-22.10. VERIFY GUTTER TO RAMP TRANSITIONS COMPLY WITH STANDARD DETAILS.
6. THE LOCATIONS OF THE 'CENTER OF RAMP' SHOWN IN THESE DETAILS ARE THE TOP BACK OF CURB AT THE CENTER OF THE DETECTABLE WARNING WHEN CURB AND GUTTER IS PRESENT. WHEN CURB AND GUTTER IS NOT PRESENT, THE LOCATIONS OF THE 'CENTER OF RAMP' ARE TO THE EDGE OF THE SIDEWALK.
7. DASHED CIRCLES ARE SHOWN WITHIN THE CURB RAMP ON SOME G SHEET DETAILS. WHERE SHOWN, USE THESE CIRCLES TO DETERMINE THE BOTTOM OF THE RAMP.
8. MATCH EXISTING SIDEWALK WIDTH EXCEPT WHERE MODIFIED BY DIMENSIONS SHOWN ON THESE G SHEETS.
9. WHERE RAMPS/LANDINGS ARE WIDENED TO ACCOMMODATE EXISTING INLETS, EXTEND DETECTABLE WARNINGS FOR THE FULL WIDTH OF THE RAMP LANDING, INCLUDING THE AREA AT THE BACK OF CURB SIDE OF THE INLET.
10. WHERE THE TOP LANDING SPACE IS LESS THAN 48 INCHES, FLARE SLOPES SHALL NOT EXCEED 1:12. FLARES TO BE CONSTRUCTED AT SLOPES FLATTER THAN 1:10 ARE INDICATED BY PLAN VIEW DIMENSIONS.
11. WHERE SPECIFIC RAMP LENGTHS ARE DIMENSIONED ON THESE G-SHEETS, THE INTENT IS TO SHORTEN THE RAMP LENGTH THE MINIMUM AMOUNT REQUIRED TO PROVIDE A COMPLIANT TOP LANDING SPACE (48 INCHES). VERIFY TOTAL RISE FOR THESE RAMPS. TO COMPLY WITH ADAAG 4.1.6(3)(A) CONSTRUCT RAMPS PER TABLE:

TOTAL RISE	MAXIMUM RAMP RUNNING SLOPE
MORE THAN 6 INCHES	1 : 12
MORE THAN 3 INCHES UP TO 6 INCHES	1 : 10
3 INCHES	1 : 8

IF FIELD MEASUREMENT DETERMINES THAT TOP OF LANDING/RAMP SLOPE CRITERIA CANNOT BE MET, NOTIFY ENGINEER BEFORE BEGINNING WORK, INCLUDING DEMOLITION ON THE EXISTING CURB RAMP.

12. REFERENCES TO SIDEWALK AND CURB PENETRATIONS ARE OMITTED FOR CLARITY. ADJUST ALL JUNCTION BOXES, VALVES, MANHOLES, ETC., TO FINAL ROADWAY AND SIDEWALK GRADE.
13. PROTECT ALL IMPROVEMENTS IN THE WORK AREA THAT ARE NOT SCHEDULED FOR REMOVAL. (TRAFFIC SIGNAL POLES, STREET FURNITURE, PARKING METERS, SIGNS, MAILBOXES, PLANTERS, ILLUMINATION, JBOXES, MANHOLES, INLETS, ETC.) IF TEMPORARY RELOCATION OF SUCH ITEMS IS NEEDED, COORDINATE WITH THE ENGINEER IN ADVANCE. RESTORE ITEMS TO ORIGINAL LOCATION.

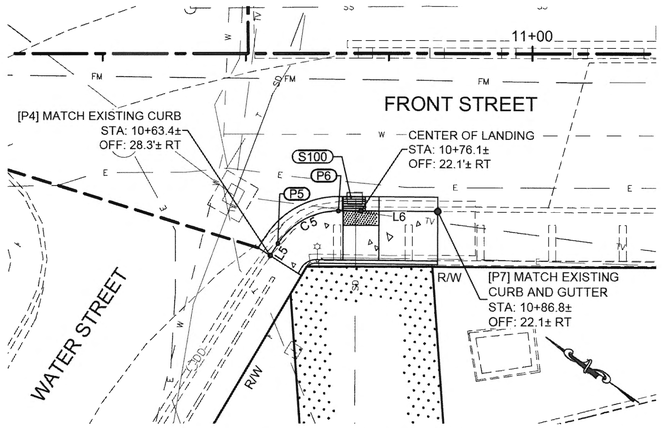


1 G1 **N QUAD: FRONT - GRANT**
NTS

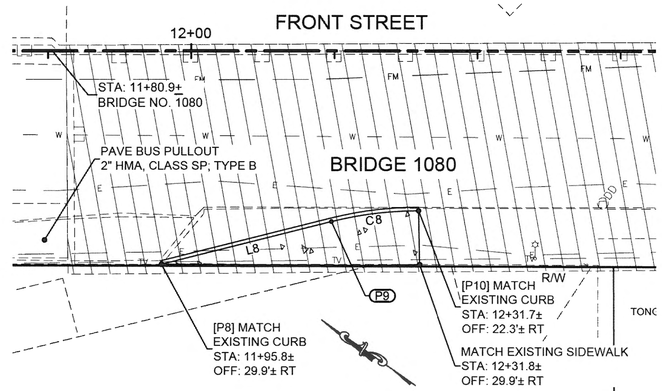
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	G1	140

S QUAD: FRONT-GRANT (TOP BACK OF CURB)

ID #	START	STATION	OFFSET	LENGTH	END	BEARING	RADIUS	DELTA	RP STATION	RP OFFSET
L5	P4	10+63.40	28.30 RT	1.99	P5	N87° 59' 25"E				
C5	P5	10+64.48	26.63 RT	10.02	P6		10.0	111° 20' 04"	10+72.88	32.06 RT
L6	P6	10+72.93	22.06 RT	13.86	P7	S34° 36' 34"E				



2 G1 **S QUAD: FRONT-GRANT**
NTS



3 G1 **BUS PULLOUT TAPER**
NTS

BUS PULLOUT TAPER (TOP BACK OF CURB)

ID #	START	STATION	OFFSET	LENGTH	END	BEARING	RADIUS	DELTA	RP STATION	RP OFFSET
L8	P8	11+95.83	29.86 RT	24.46	P9	S49° 06' 45"E				
C8	P9	12+19.54	23.85 RT	12.30	P10		50.0	165° 50' 11"	12+31.75	71.82 RT

N QUAD: FRONT - GRANT (TOP BACK OF CURB)

ID #	START	STATION	OFFSET	LENGTH	END	BEARING	RADIUS	DELTA	RP STATION	RP OFFSET
L1	P1	10+25.87	11.83 LT	18.49	P2	S56° 54' 36"E				
C1	P2	10+38.35	16.98 LT	17.64	P3		15.0	112° 37' 17"	10+32.73	30.89 LT
L2	P3	10+47.73	30.73 LT	1.72	P4A	N55° 42' 41"E				

GRADING LEGEND

SAWCUT

PROPOSED CONCRETE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 11/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907 522-1707 VOICE
907 522-3404 FAX
WWW.RMCONSULT.COM
CERT. OF AUTH. NO.
AECC111

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9832
9/30/17
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN
STREETS RECONSTRUCTION
PROJECT #Z68160000

SIDEWALK AND CURB IMPROVEMENTS

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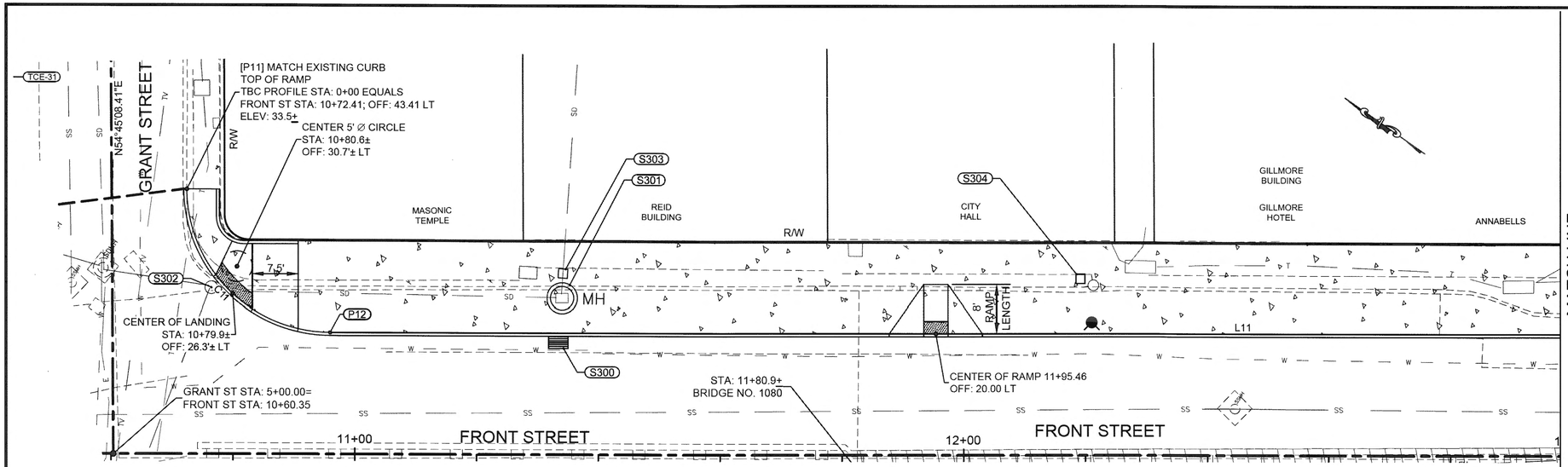
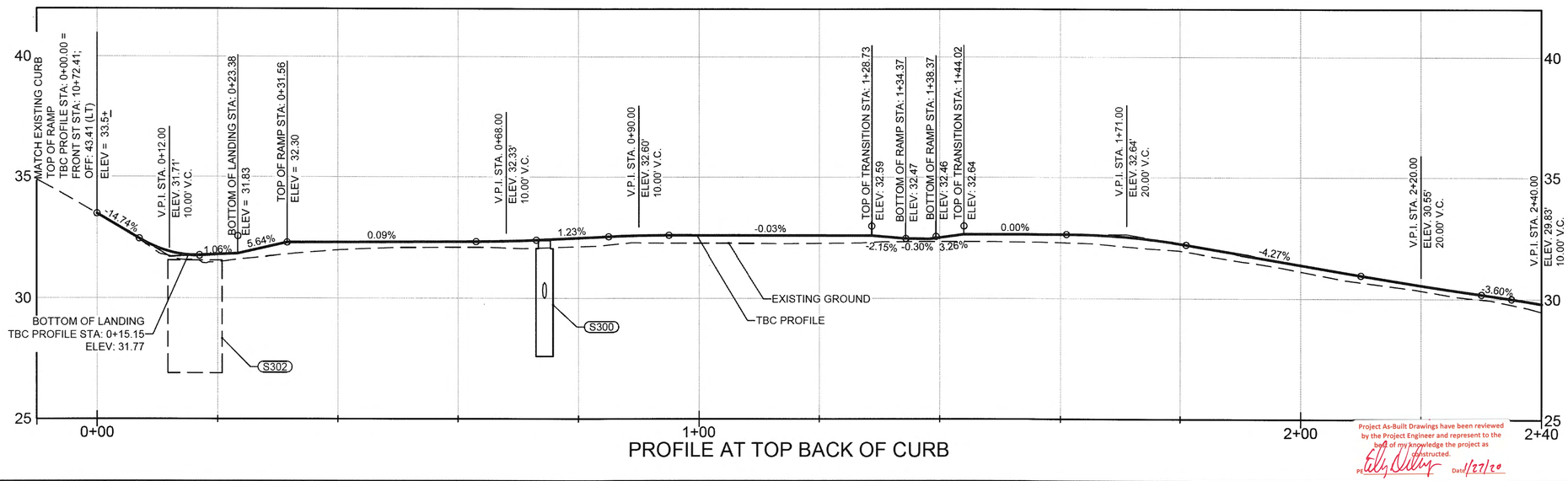
DATE 10/17/2017 15:33
LAYOUT G1
DESIGNED
CHECKED
DRAFTED



GRANT TO DOCK - LT (TOP BACK OF CURB)

ID #	START	STATION	OFFSET	LENGTH	END	BEARING	RADIUS	DELTA	RP STATION	RP OFFSET
C11	P11	10+72.41	43.41 LT	36.83	P12		23.5	90° 12' 47"	10+95.91	43.50 LT
L11	P12	10+95.91	20.00 LT	299.69	P13	S34° 54' 00"E				



PROFILE AT TOP BACK OF CURB

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Date 1/27/20

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9101 Vanguard Drive
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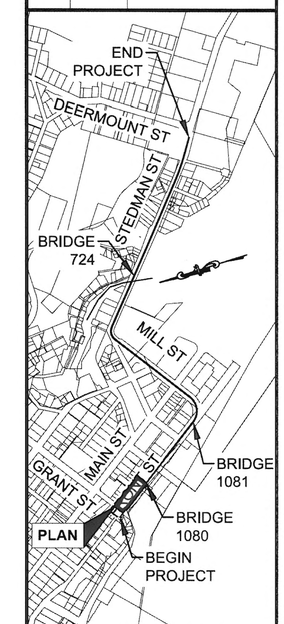
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/11/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION

NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G2	140

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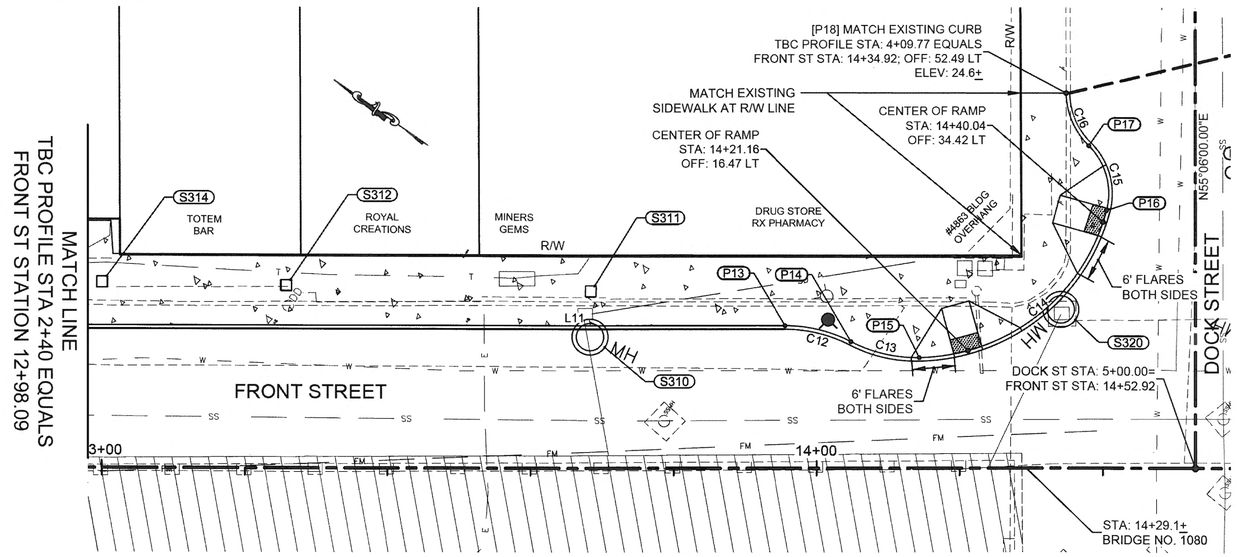
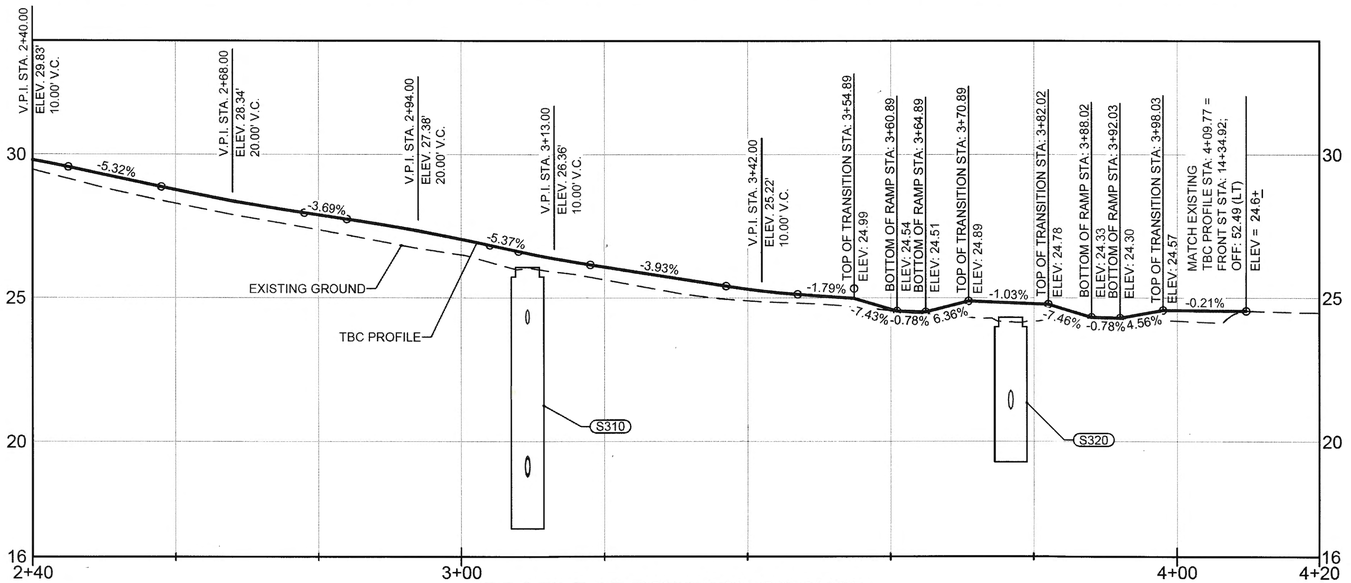


GRANT TO DOCK - LT (TOP BACK OF CURB)

ID #	START	STATION	OFFSET	LENGTH	END	BEARING	RADIUS	DELTA	RP STATION	RP OFFSET
L11	P12	10+95.91	20.00 LT	299.69	P13	S34° 54' 00"E				
C12	P13	13+95.60	20.00 LT	9.58	P14		20.0	152° 33' 50"	13+95.60	0.00
C13	P14	14+04.82	17.75 LT	9.90	P15		20.0	151° 38' 33"	14+14.03	35.50 RT
C14	P15	14+14.35	15.50 LT	35.69	P16		27.5	105° 38' 06"	14+13.91	43.00 LT
C15	P16	14+40.51	36.02 LT	9.85	P17		9.5	120° 34' 32"	14+31.32	38.43 LT
C16	P17	14+38.07	45.11 LT	8.19	P18		10.5	135° 45' 53"	14+45.53	52.50 LT



PROFILE AT TOP BACK OF CURB

Plans Prepared By: R&M Consultants, Inc.
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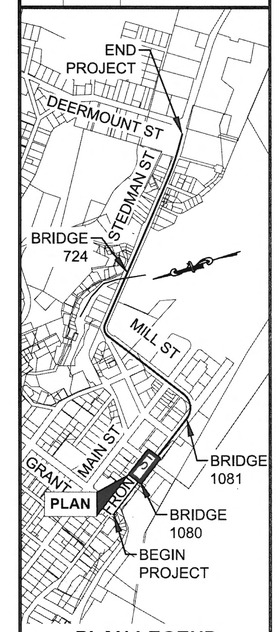

PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/1/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G3	140

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

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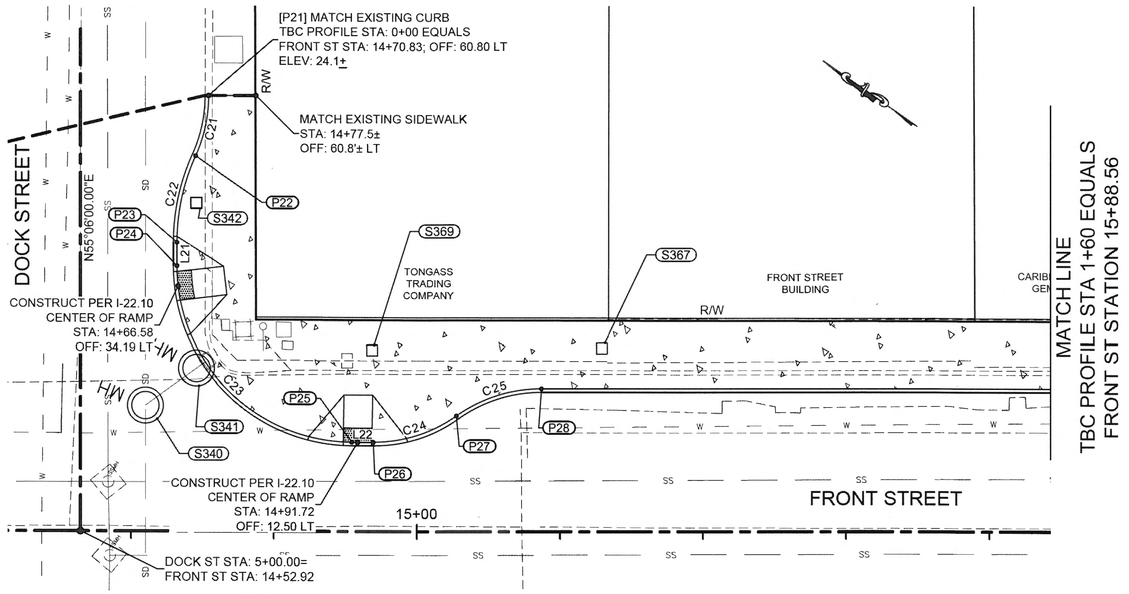
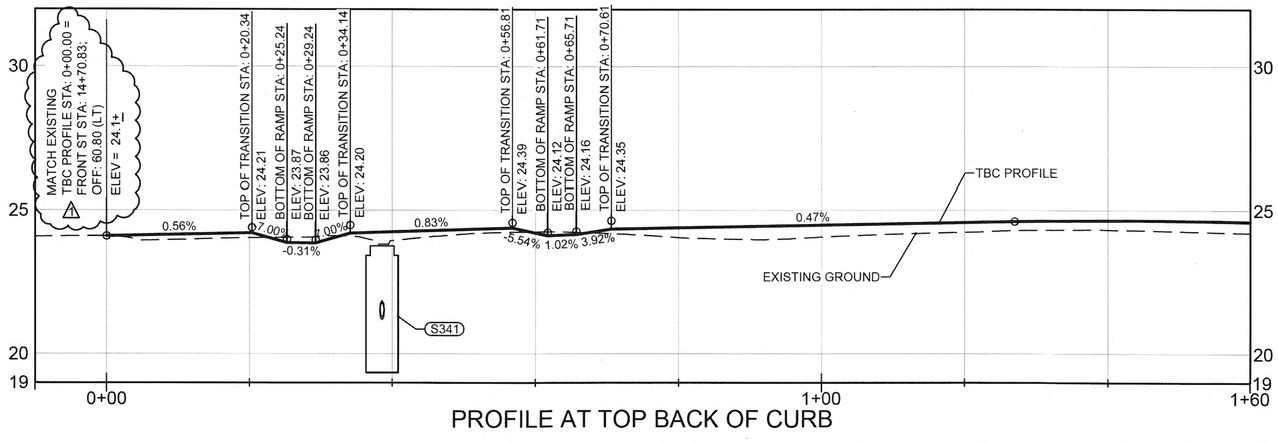


DOCK TO MISSION - LT (TOP BACK OF CURB)

ID #	START	STATION	OFFSET	LENGTH	END	BEARING	RADIUS	DELTA	RP STATION	RP OFFSET
C21	P21	14+70.83	60.80 LT	8.67	P22		20.5	155° 45' 58"	14+50.33	60.80 LT
C22	P22	14+69.02	52.38 LT	12.48	P23		29.5	155° 45' 35"	14+95.92	40.27 LT
L21	P23	14+66.42	40.27 LT	3.27	P24	S55° 06' 00"W				
C23	P24	14+66.42	37.00 LT	38.48	P25		24.5	90° 00' 00"	14+90.92	37.00 LT
L22	P25	14+90.92	12.50 LT	2.99	P26	S34° 54' 00"E				
C24	P26	14+93.91	12.50 LT	12.37	P27		20.0	144° 34' 09"	14+93.91	32.50 LT
C25	P27	15+05.51	16.20 LT	12.68	P28		20.5	144° 34' 09"	15+17.39	0.50 RT
L23	P28	15+17.39	20.00 LT	156.98	P29	S34° 54' 00"E				



PROFILE AT TOP BACK OF CURB

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Date: 1/27/20

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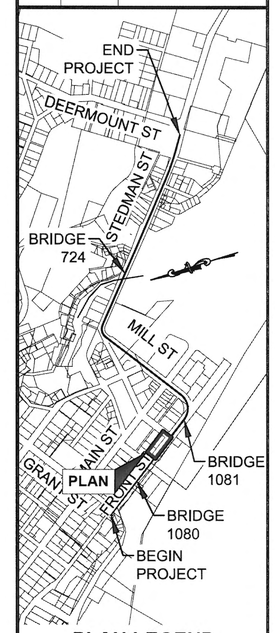
ADDENDUM NUMBER

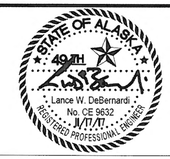
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
1	11/17/17	TEXT CHANGE



PLAN LEGEND



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SOUTHCOAST REGION

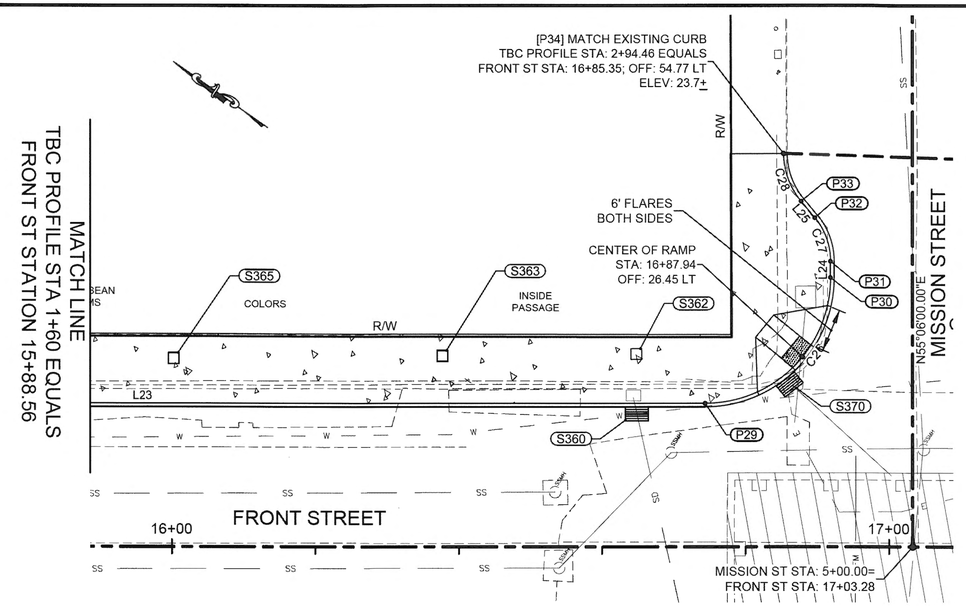
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

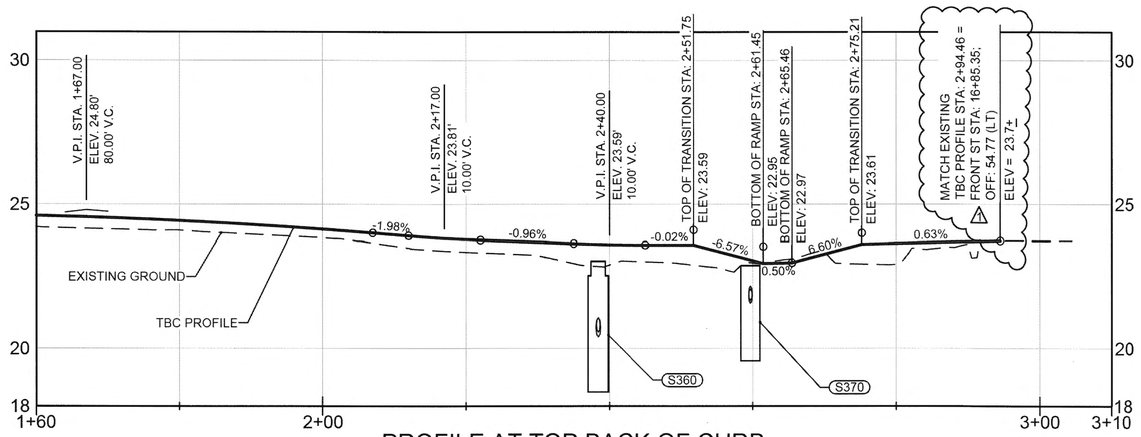
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G4	140

PLOTTED: 11/17/2017 9:17 AM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS.DWG



DOCK TO MISSION - LT (TOP BACK OF CURB)

ID #	START	STATION	OFFSET	LENGTH	END	BEARING	RADIUS	DELTA	RP STATION	RP OFFSET
L23	P28	15+17.39	20.00 LT	156.98	P29	S34° 54' 00"E				
C26	P29	16+74.37	20.00 LT	27.49	P30		17.5	90° 00' 00"	16+74.37	37.50 RT
L24	P30	16+91.87	37.50 LT	2.26	P31	N55° 06' 00"E				
C27	P31	16+91.87	39.76 LT	6.59	P32		9.5	140° 15' 45"	16+82.37	39.76 LT
L25	P32	16+89.68	45.83 LT	2.97	P33	N15° 21' 45"E				
C28	P33	16+87.78	48.12 LT	7.23	P34		10.5	140° 34' 25"	16+95.85	54.83 LT



PROFILE AT TOP BACK OF CURB

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

Project Engineer _____ Date 11/27/20

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
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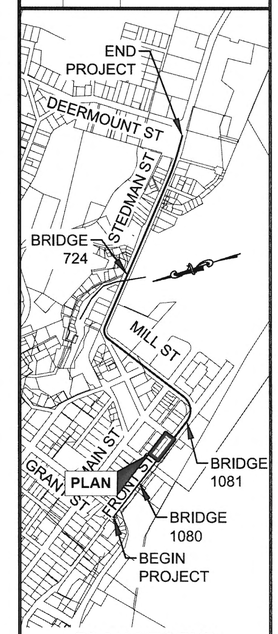
1	11/17/17	TEXT CHANGE



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
11/17/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

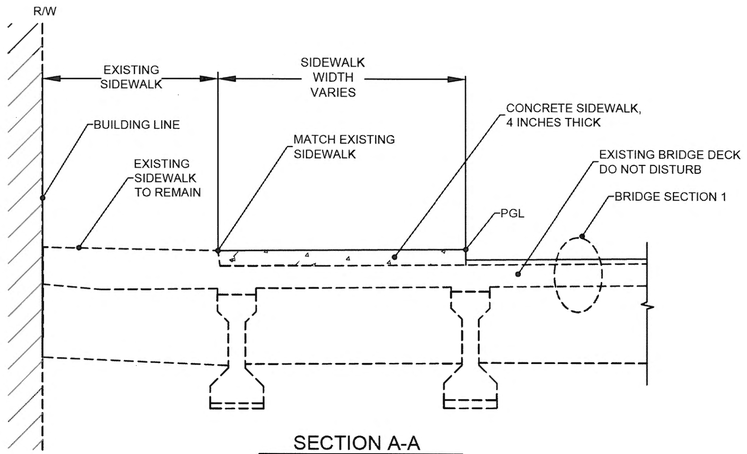
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

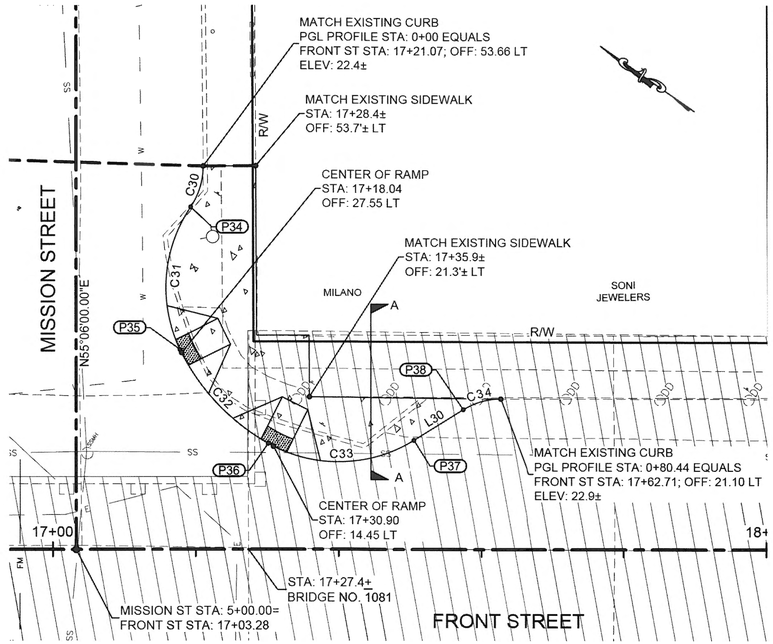
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G5	140

PLOTTED: 11/17/2017 9:18 AM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS.DWG



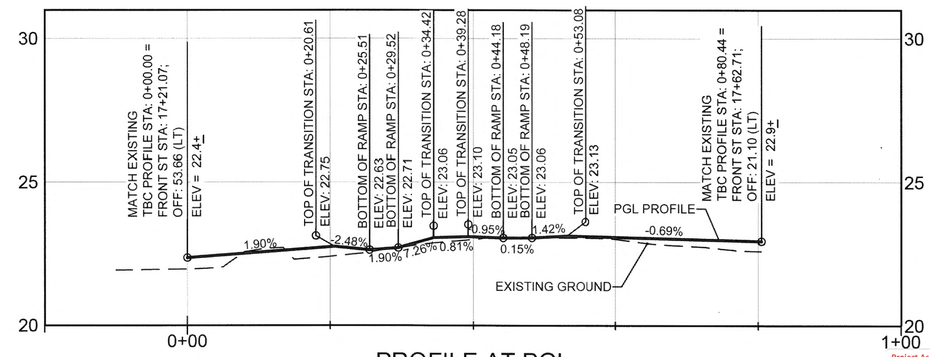
SECTION A-A

REFER TO TYPICAL SECTIONS FOR ADDITIONAL INFORMATION



MISSION TO BRIDGE 1081 - LT (PGL)

ID #	START	STATION	OFFSET	LENGTH	END	BEARING	RADIUS	DELTA	RP STATION	RP OFFSET
C30	P33	17+21.07	53.66 LT	6.07	P34		10.0	145° 13' 41"	17+11.07	53.59 LT
C31	P34	17+19.32	47.95 LT	20.94	P35		20.0	120° 00' 26"	17+35.84	36.67 LT
C32	P35	17+17.81	28.01 LT	18.34	P36		30.0	144° 58' 54"	17+44.85	41.00 LT
C33	P36	17+30.17	14.84 LT	21.36	P37		20.0	118° 48' 57"	17+39.96	32.28 LT
L30	P37	17+50.52	15.30 LT	8.14	P38	S66° 46' 05"E				
C34	P38	17+57.43	19.59 LT	5.56	P39		10.0	148° 09' 05"	17+62.71	11.10 LT



PROFILE AT PGL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

For: _____ Date 1/27/20

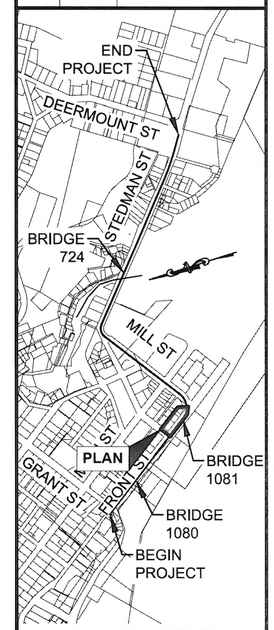
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/1/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G6	140

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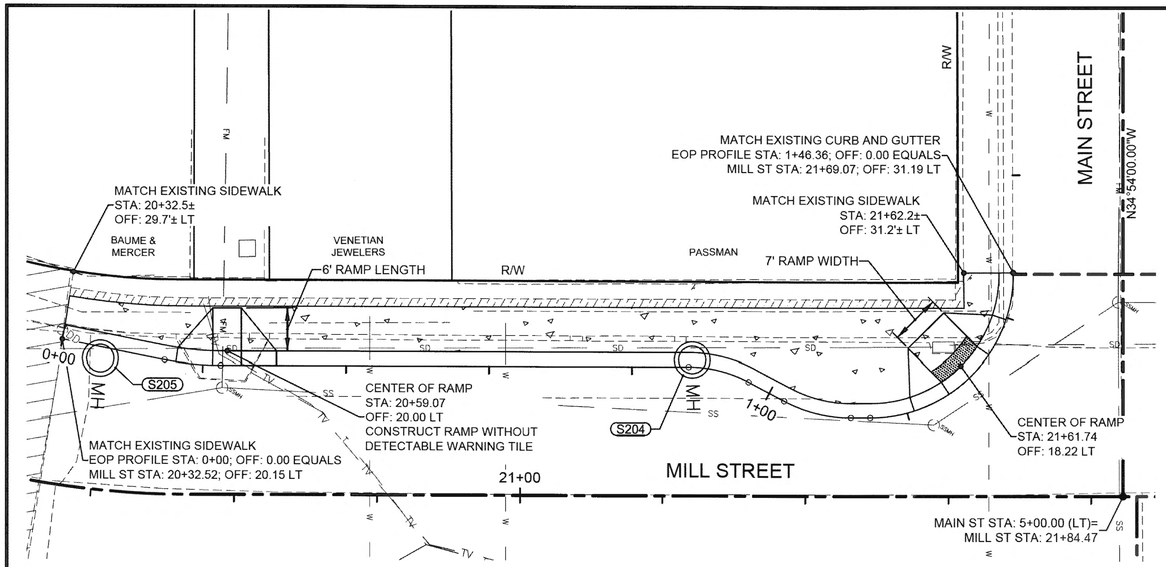
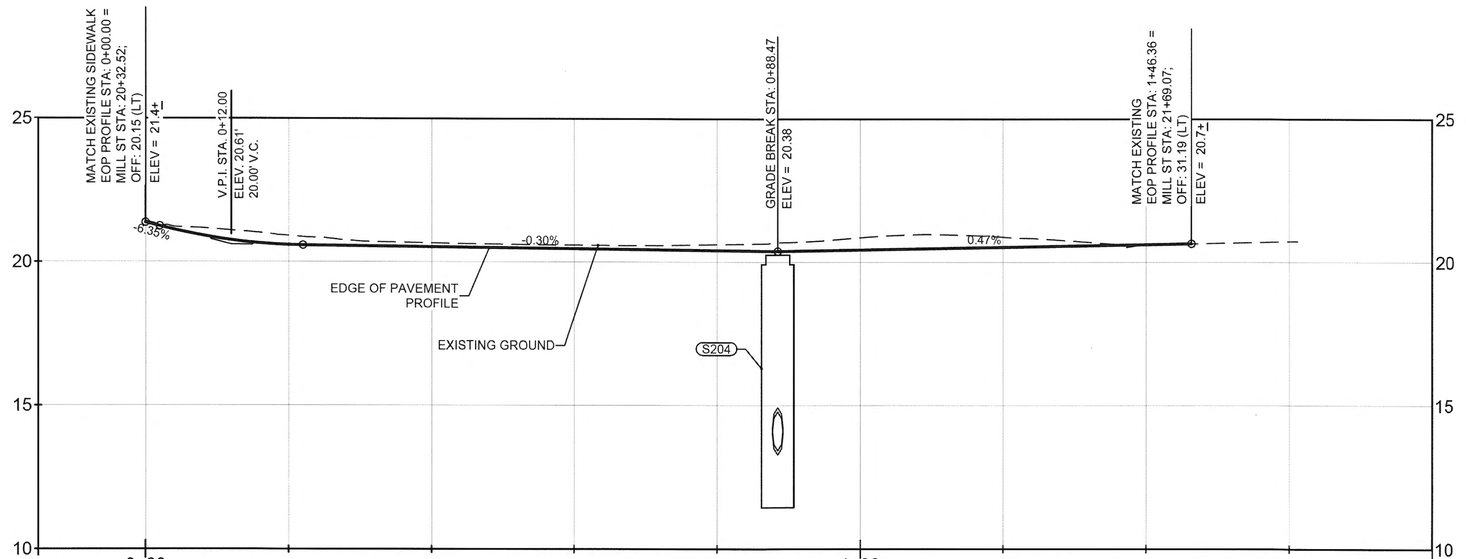


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	14.58		N66° 23' 49.05"E	0+00.00	37741.9074	645686.3239	0+14.58	337747.7464	645699.6869	
CURVE	7.89	40.00		0+14.58	37747.7464	645699.6869	0+22.47	337751.5940	645706.5568	011.2970
LINE	65.54		N55° 06' 00.00"E	0+22.47	37751.5940	645706.5568	0+88.01	337789.0900	645760.3061	
CURVE	8.72	18.00		0+88.01	37789.0900	645760.3061	0+96.73	337792.1881	645768.3708	027.7710
LINE	5.63		N82° 52' 15.51"E	0+96.73	37792.1881	645768.3708	1+02.36	337792.8868	645773.9569	
CURVE	9.69	20.00		1+02.36	37792.8868	645773.9569	1+12.05	337796.3291	645782.9177	027.7710
LINE	2.70		N55° 06' 00.00"E	1+12.05	37796.3291	645782.9177	1+14.75	337797.8728	645785.1306	
CURVE	31.61	20.00		1+14.75	37797.8728	645785.1306	1+46.36	337825.8740	645789.9813	090.5441



PROFILE @ EDGE OF PAVEMENT

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
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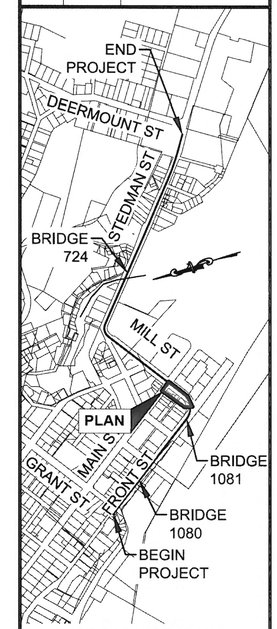


PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/15/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

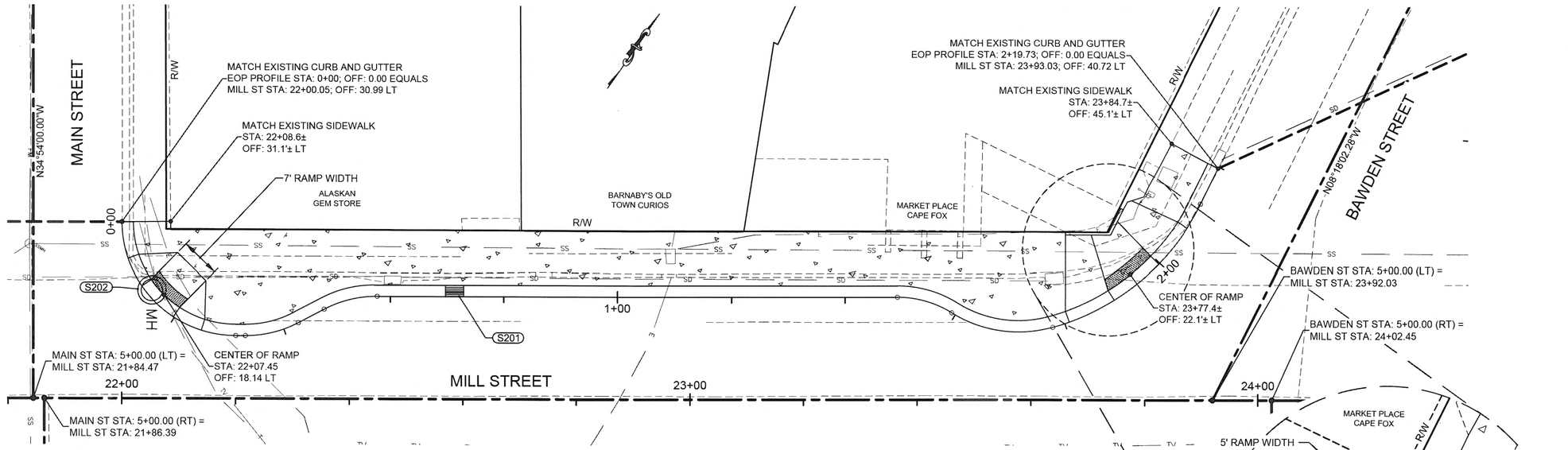
PROJECT DESIGNATION

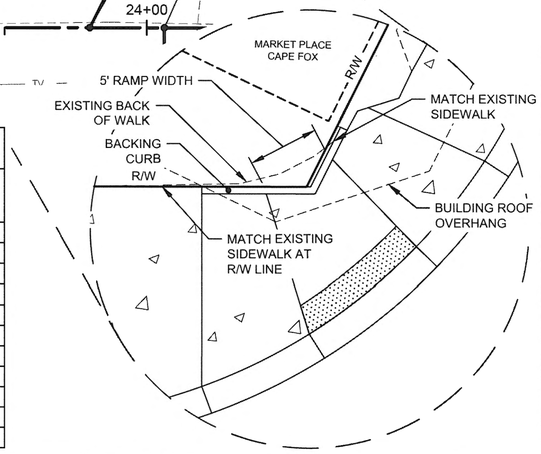
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G7	140

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: Date 11/27/20

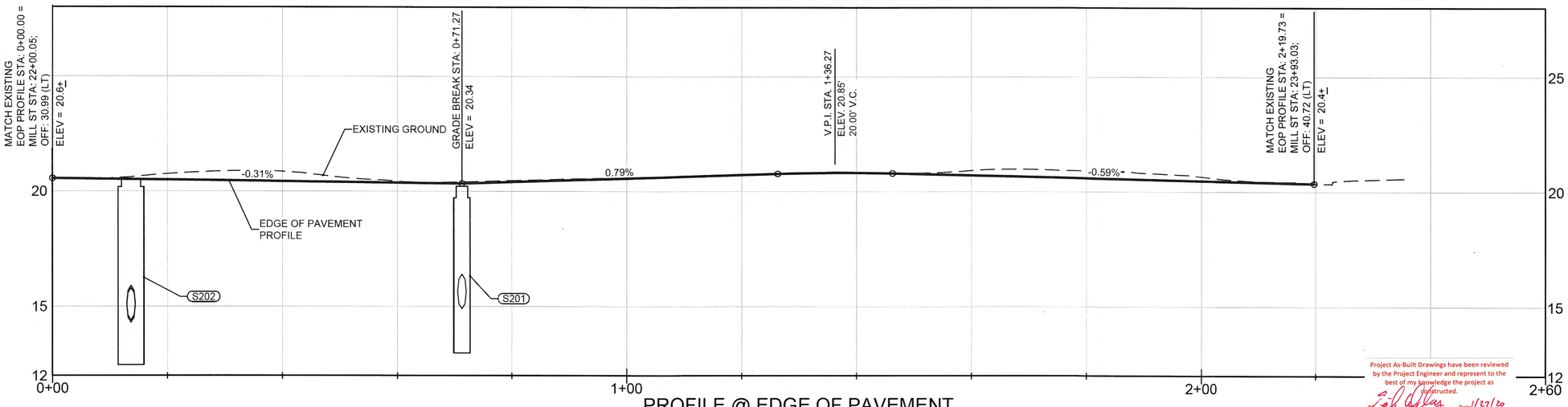
PLOTTED: 8/15/2017 4:08 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS.DWG





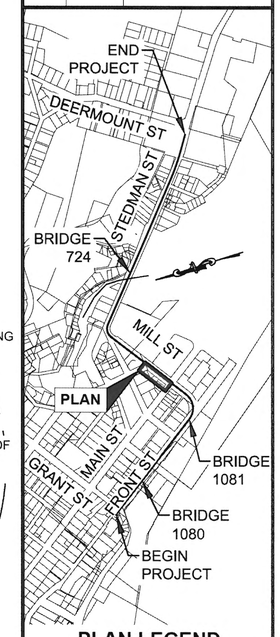
LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
CURVE	31.41	20.00		0+00.00	37843.4386	645815.5024	0+31.41	337838.4836	645843.3448	089.9822
LINE	1.68		N55° 06' 00.00"E	0+31.41	37838.4836	645843.3448	0+33.09	337839.4443	645844.7219	
CURVE	9.69	20.00		0+33.09	37839.4443	645844.7219	0+42.78	337846.6653	645851.0466	027.7710
LINE	5.14		N27° 19' 44.49"E	0+42.78	37846.6653	645851.0466	0+47.92	337851.2273	645853.4042	
CURVE	9.69	20.00		0+47.92	37851.2273	645853.4042	0+57.61	337858.4484	645859.7290	027.7710
LINE	91.61		N55° 06' 00.00"E	0+57.61	37858.4484	645859.7290	1+49.22	337910.8629	645934.8635	
CURVE	10.09	18.00		1+49.22	37910.8629	645934.8635	1+59.32	337914.0792	645944.2930	032.1324
CURVE	18.46	22.00		1+59.32	37914.0792	645944.2930	1+77.78	337922.1606	645960.2890	048.0718
CURVE	34.97	42.00		1+77.78	37922.1606	645960.2890	2+12.75	337954.9286	645969.2562	047.7119
LINE	6.98		N08° 33' 04.55"W	2+12.75	37954.9286	645969.2562	2+19.73	337961.8283	645968.2187	
LINE	15.67		N08° 38' 44.71"W	2+19.73	37961.8283	645968.2187	2+35.39	337977.3154	645965.8639	



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE [signature] Date 1/27/20



PLAN LEGEND

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Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G8	140

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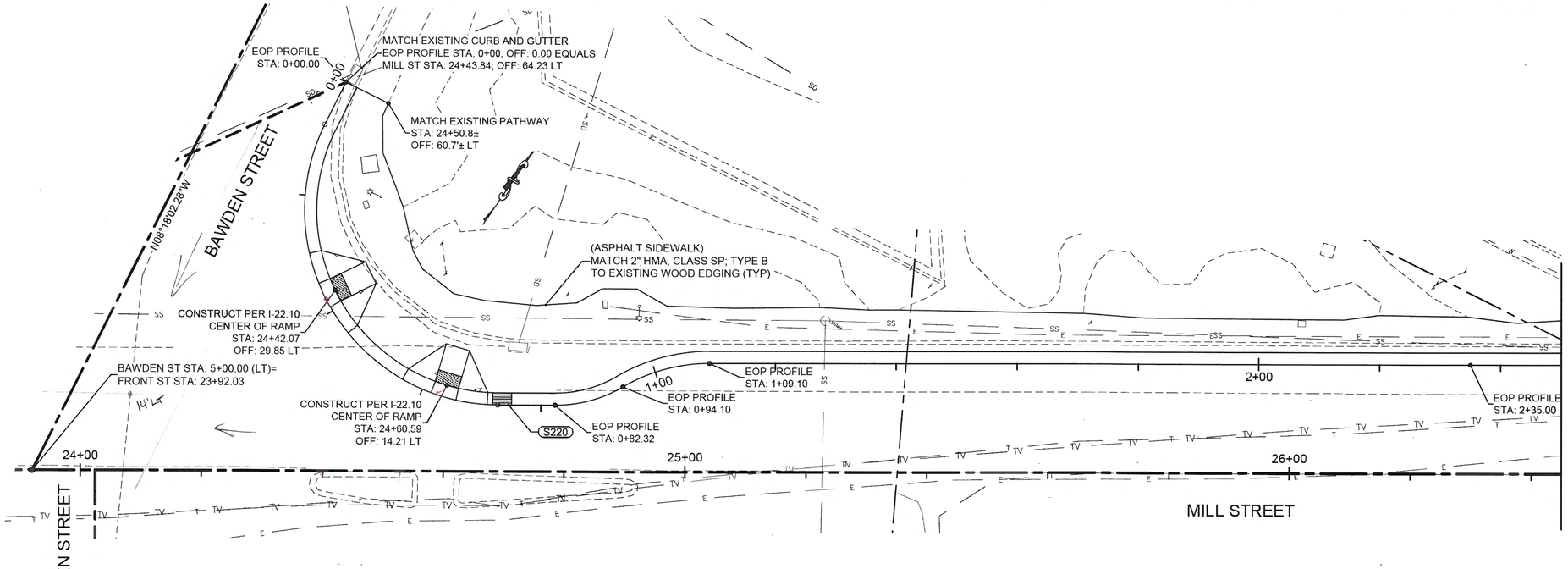
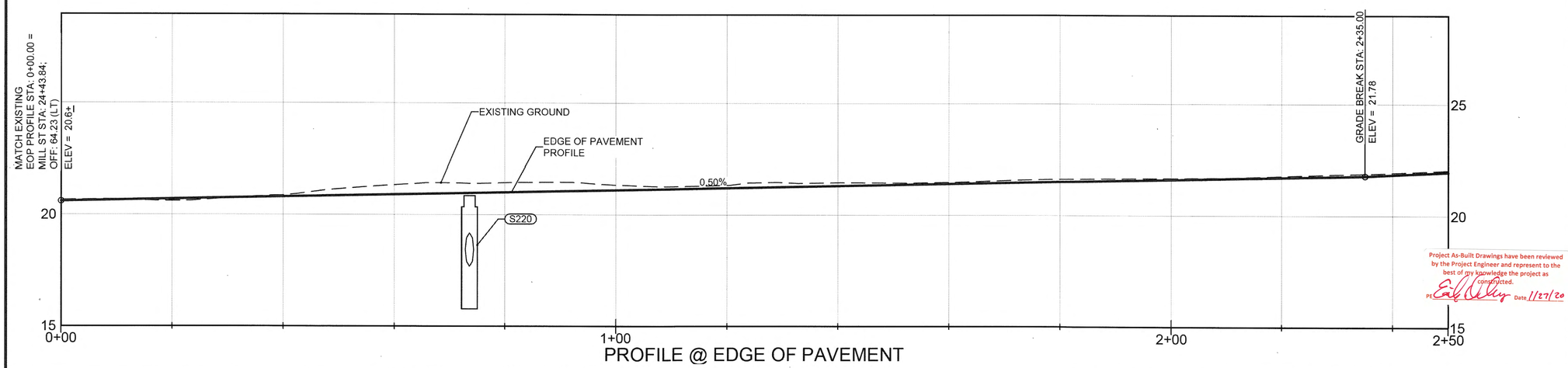


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	7.82		S08° 31' 23.54"E	0+00.00	38010.1789	645996.4372	0+07.82	338002.4426	645997.5966	
CURVE	65.00	32.00		0+07.82	38002.4426	645997.5966	0+72.82	337980.9404	646047.5519	116.3768
LINE	9.50		N55° 06' 00.00"E	0+72.82	37980.9404	646047.5519	0+82.32	337986.3755	646055.3429	
CURVE	11.78	22.00		0+82.32	37986.3755	646055.3429	0+94.10	337995.3248	646062.7881	030.6834
CURVE	14.99	28.00		0+94.10	37995.3248	646062.7881	1+09.10	338006.7147	646072.2638	030.6834
LINE	143.44		N55° 06' 00.00"E	1+09.10	38006.7147	646072.2638	2+52.53	338088.7811	646189.9032	



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 11/27/20

Plans Prepared By: R&M Consultants, Inc.
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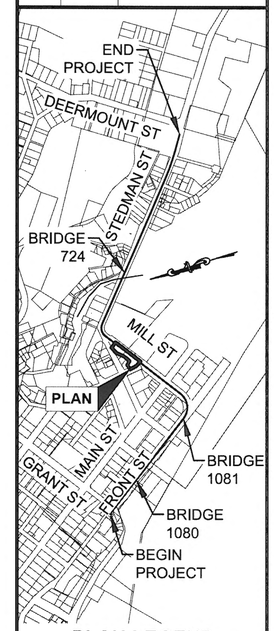

PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/1/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G9	140

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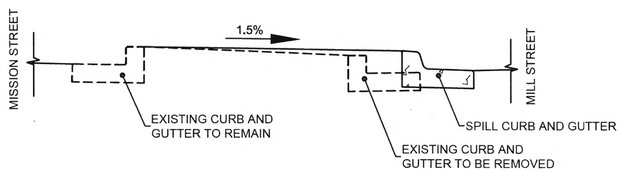
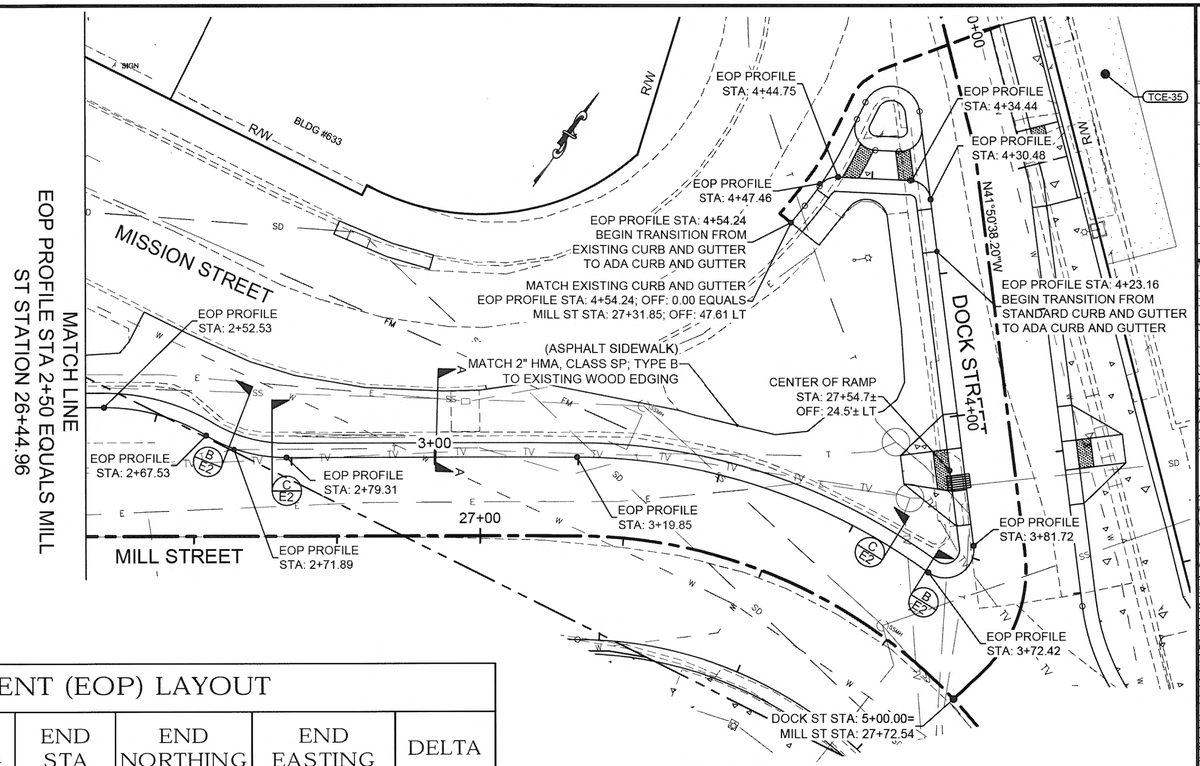


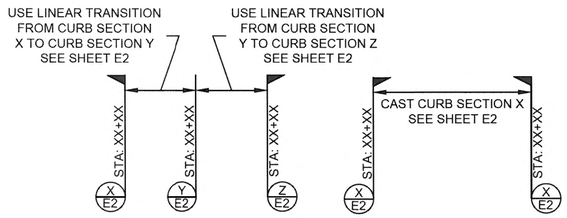
SECTION A-A

SHEET NOTE:

1. CAST SPILL CURB AND GUTTER PER DETAIL C/E2 BETWEEN STATION 26+71 (LT) (EOP PROFILE STATION 2+77.11; OFF: 2.00 LT) AND STATION 27+53.58 (LT) (EOP PROFILE STATION 3+66.01; OFF: 2.00 LT). TRANSITION BETWEEN STANDARD CURB AND GUTTER AND SPILL CURB AND GUTTER OVER 6 FEET.

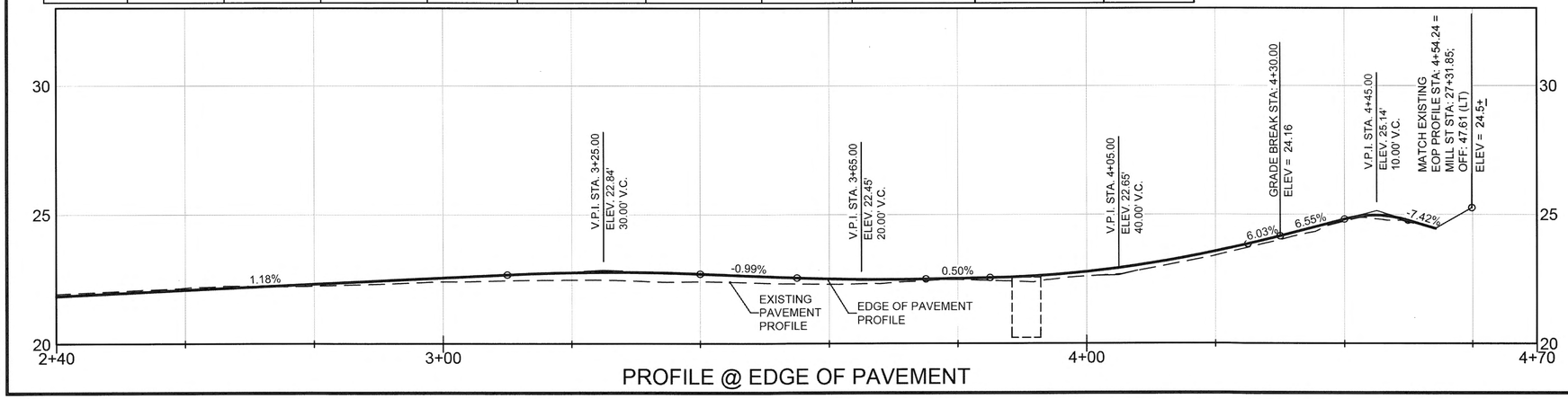


LEGEND



LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	143.44		N55° 06' 00.00"E	1+09.10	38006.7147	646072.2638	2+52.53	338088.7811	646189.9032	
CURVE	14.99	28.00		2+52.53	38088.7811	646189.9032	2+67.53	338093.7411	646203.8646	030.6834
CURVE	11.78	22.00		2+67.53	38093.7411	646203.8646	2+79.31	338097.6382	646214.8342	030.6834
LINE	40.54		N55° 06' 00.00"E	2+79.31	38097.6382	646214.8342	3+19.85	338120.8325	646248.0825	
CURVE	52.57	83.00		3+19.85	38120.8325	646248.0825	3+72.42	338135.7354	646297.5880	036.2928
CURVE	9.30	4.00		3+72.42	38135.7354	646297.5880	3+81.72	338142.4026	646300.6651	133.2367
LINE	48.75		N41° 50' 38.20"W	3+81.72	38142.4026	646300.6651	4+30.48	338178.7210	646268.1425	
CURVE	4.20	3.00		4+30.48	38178.7210	646268.1425	4+34.68	338179.2617	646264.3143	080.2363
LINE	10.07		S57° 55' 11.18"W	4+34.68	38179.2617	646264.3143	4+44.75	338173.9125	646255.7805	
CURVE	3.03	3.00		4+44.75	38173.9125	646255.7805	4+47.77	338171.3766	646254.3738	057.8055
CURVE	3.43	48.00		4+47.77	38171.3766	646254.3738	4+51.20	338167.9523	646254.2447	004.0912
LINE	3.03		S04° 12' 20.00"W	4+51.20	38167.9523	646254.2447	4+54.24	338164.9266	646254.0222	



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Earl Utley Date 1/27/20

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
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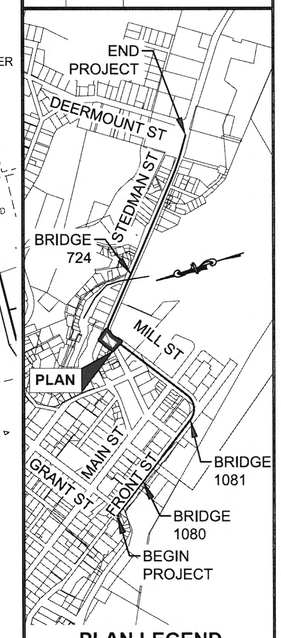


PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

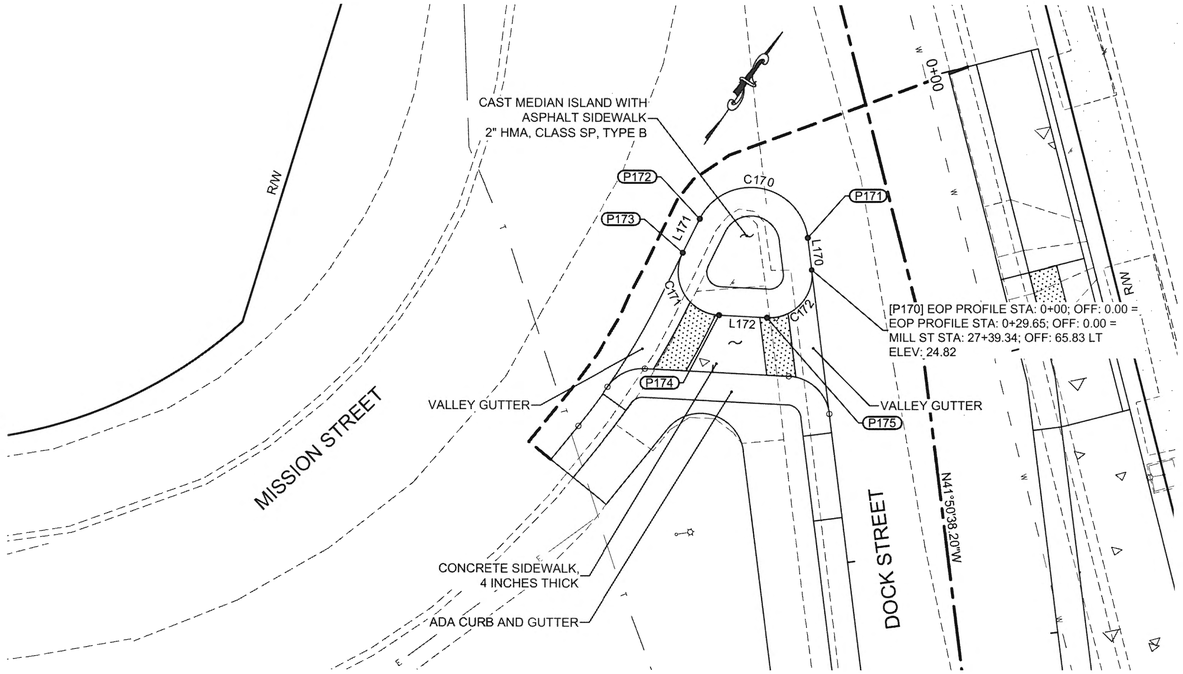
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

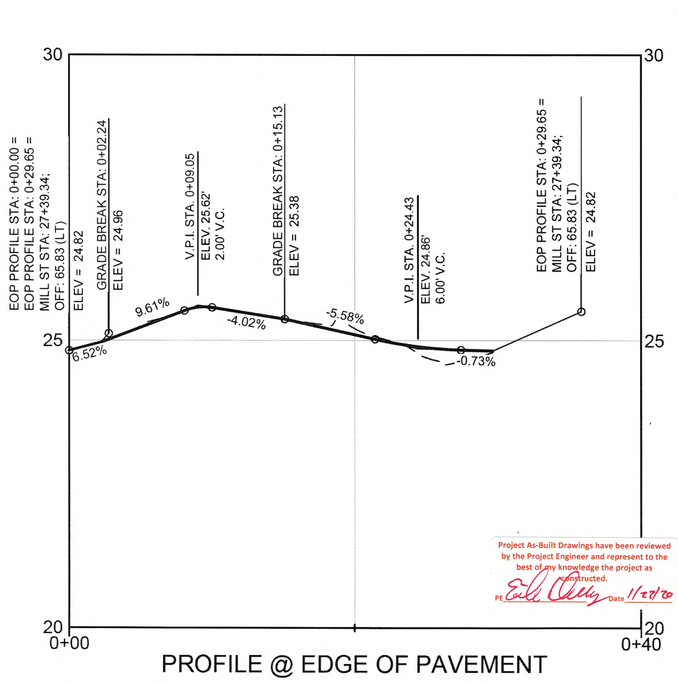
SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G10	140

PLOTTED: 8/11/2017 6:10 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 41\CIVIL\ACAD\1900.03-G-SHEETS.DWG





PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 11-20-20

LIP OF GUTTER PGL/ EDGE OF PAVMENT (EOP) LAYOUT

ID #	START	STATION	OFFSET	LENGTH	END	BEARING	RADIUS	DELTA	RP STATION	RP OFFSET
L170	P170	0+00.00	CL	2.24	P171	N41° 50' 38"W				
C170	P171	0+02.24	CL	10.23	P172	S64° 53' 23"W	4.0	33° 28' 03"	27+36.95	66.04 LT
L171	P172	0+12.47	CL	2.66	P173	S08° 22' 35"E				
C171	P173	0+15.13	CL	5.95	P174	S65° 13' 42"E	3.0	66° 17' 46"	27+36.23	63.55 LT
L172	P174	0+21.08	CL	3.35	P175	N57° 55' 11"E				
C172	P175	0+24.43	CL	5.22	P170	N08° 02' 16"E	3.0	80° 14' 11"	27+37.94	64.47 LT

SHEET NOTES:

1. CONSTRUCT THE MEDIAN ISLAND USING EXPRESSWAY CURB AND GUTTER.

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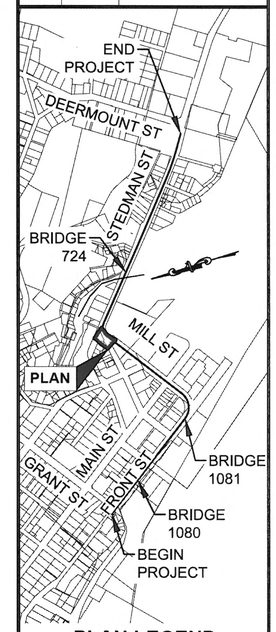

PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
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DESIGNED BY:

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DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

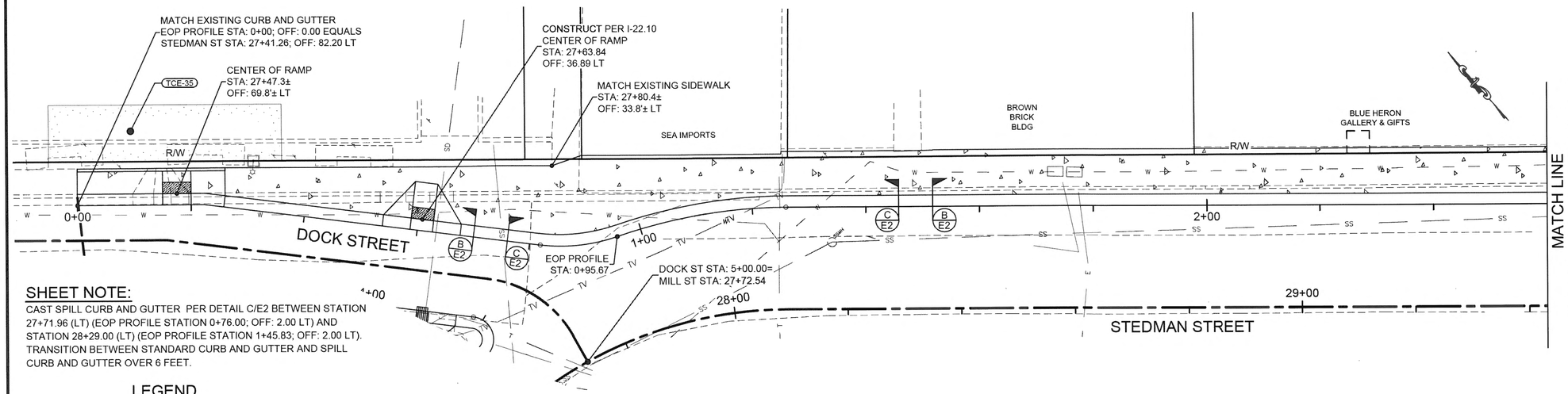
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G11	140

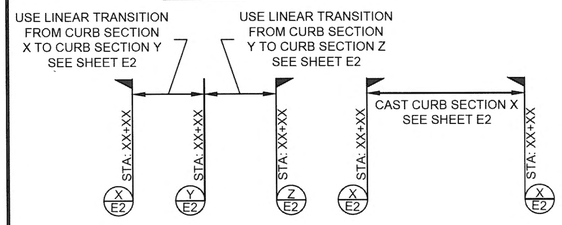
PLOTTED: 8/11/2017 6:11 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS.DWG



SHEET NOTE:

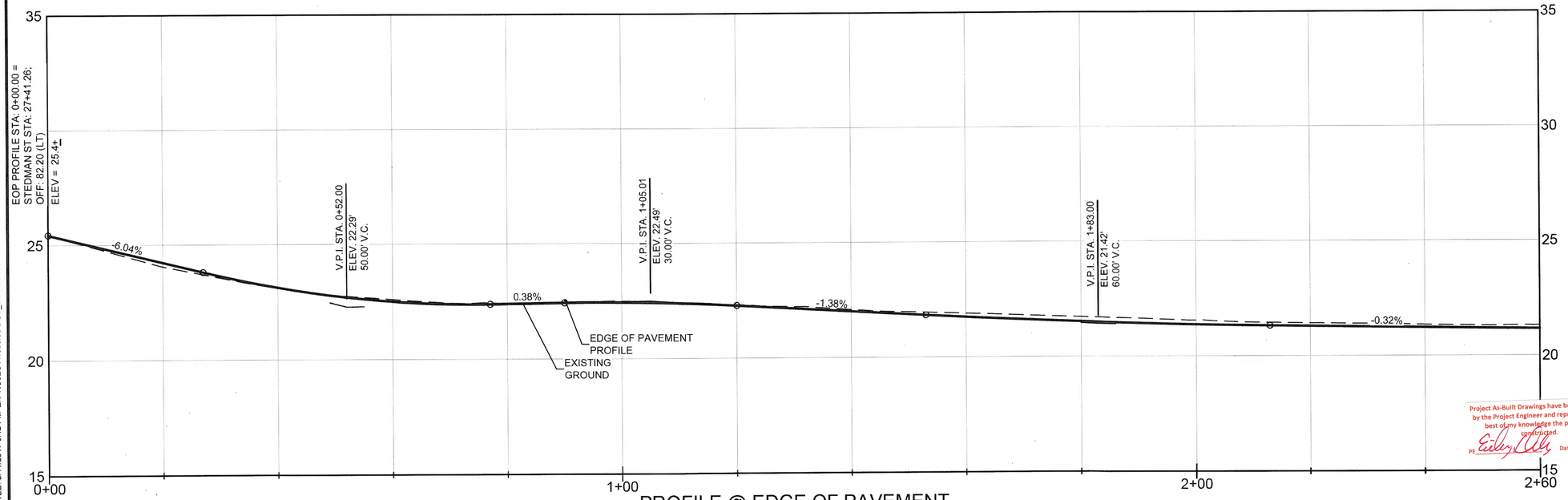
CAST SPILL CURB AND GUTTER PER DETAIL C/E2 BETWEEN STATION 27+71.96 (LT) (EOP PROFILE STATION 0+76.00; OFF: 2.00 LT) AND STATION 28+29.00 (LT) (EOP PROFILE STATION 1+45.83; OFF: 2.00 LT). TRANSITION BETWEEN STANDARD CURB AND GUTTER AND SPILL CURB AND GUTTER OVER 6 FEET.

LEGEND



LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	22.34		S49° 07' 01.80"E	0+00.00	38203.1035	646261.3042	0+22.34	338188.4793	646278.1969	
LINE	59.56		S41° 50' 38.20"E	0+22.34	38188.4793	646278.1969	0+81.91	338144.1064	646317.9322	
CURVE	13.76	30.00		0+81.91	38144.1064	646317.9322	0+95.67	338136.2797	646329.1035	026.2808
CURVE	30.25	90.00		0+95.67	38136.2797	646329.1035	1+25.91	338120.5496	646354.7699	019.2547
LINE	173.06		S48° 52' 12.02"E	1+25.91	38120.5496	646354.7699	2+98.97	338006.7166	646485.1213	



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 11/27/20

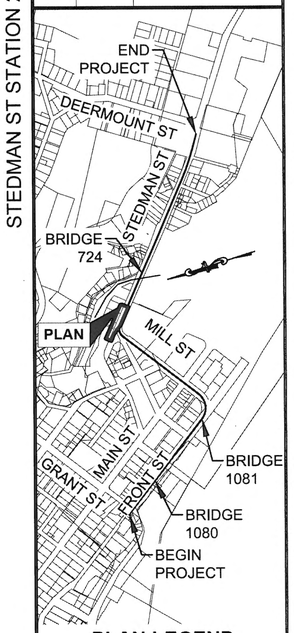
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G12	140

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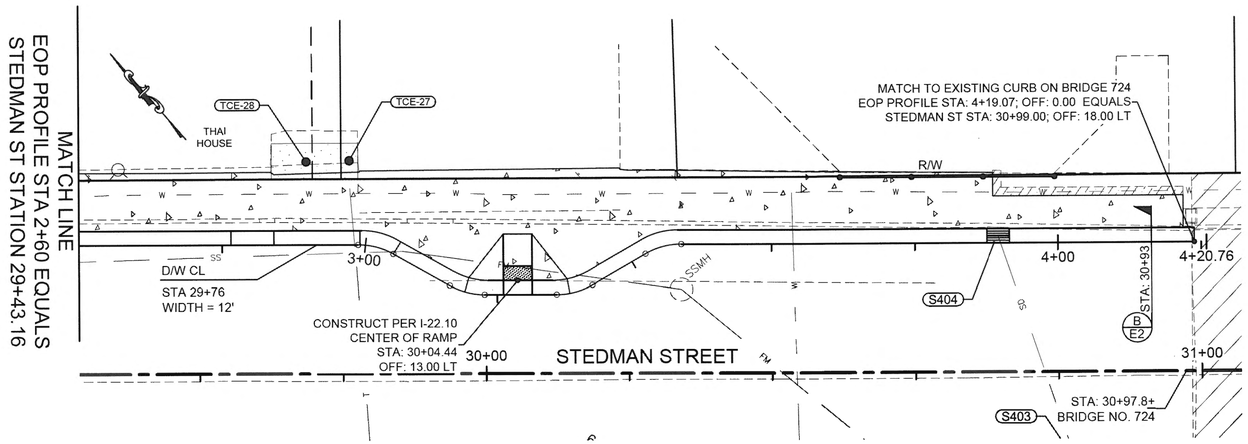
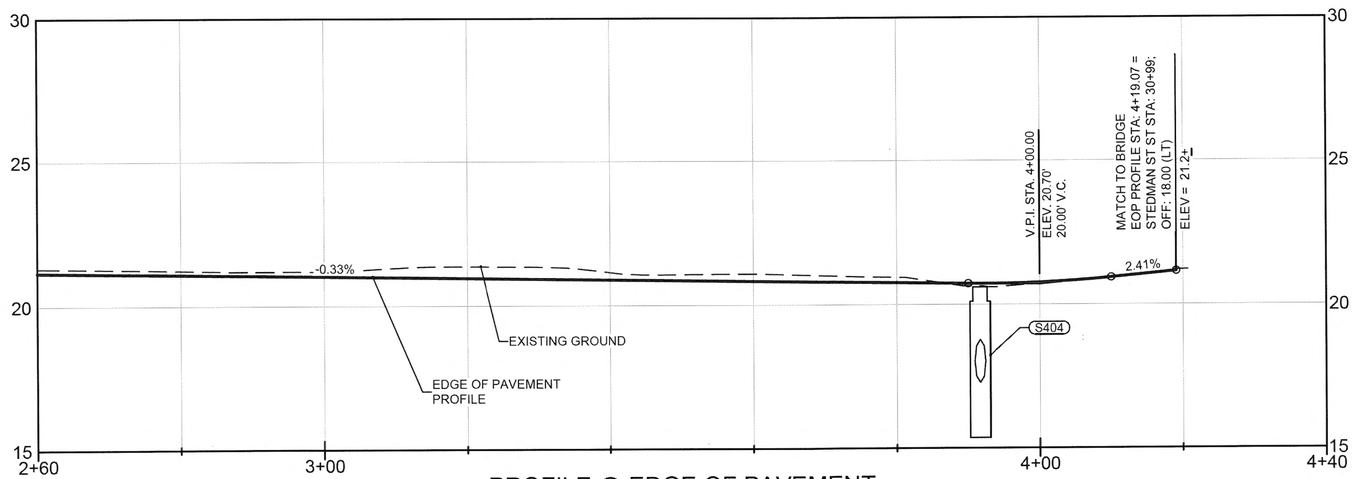


SHEET NOTE:

TRANSITION BETWEEN EXISTING CURB AT BRIDGE 724 TO STANDARD CURB AND GUTTER AT STA: 30+93 (LT) OVER 6 FEET.

LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	173.06		S48° 52' 12.02"E	1+25.91	38120.5496	646354.7699	2+98.97	338006.7166	646485.1213	
CURVE	5.13	10.00		2+98.97	38006.7166	646485.1213	3+04.10	338002.5179	646487.9717	029.3981
LINE	9.01		S19° 28' 18.92"E	3+04.10	38002.5179	646487.9717	3+13.12	337994.0197	646490.9763	
CURVE	5.13	10.00		3+13.12	37994.0197	646490.9763	3+18.25	337989.8210	646493.8267	029.3981
LINE	10.04		S48° 52' 12.02"E	3+18.25	37989.8210	646493.8267	3+28.29	337983.2149	646501.3913	
CURVE	5.23	10.00		3+28.29	37983.2149	646501.3913	3+33.52	337980.9357	646506.0362	029.9856
LINE	8.65		S78° 51' 20.10"E	3+33.52	37980.9357	646506.0362	3+42.17	337979.2638	646514.5229	
CURVE	5.23	10.00		3+42.17	37979.2638	646514.5229	3+47.41	337976.9846	646519.1678	029.9856
LINE	71.66		S48° 52' 12.02"E	3+47.41	37976.9846	646519.1678	4+19.07	337929.8485	646573.1438	



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 11/17/20

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

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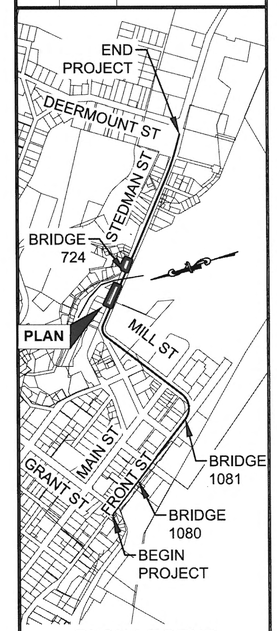

PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
9/19/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION

NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G13	140

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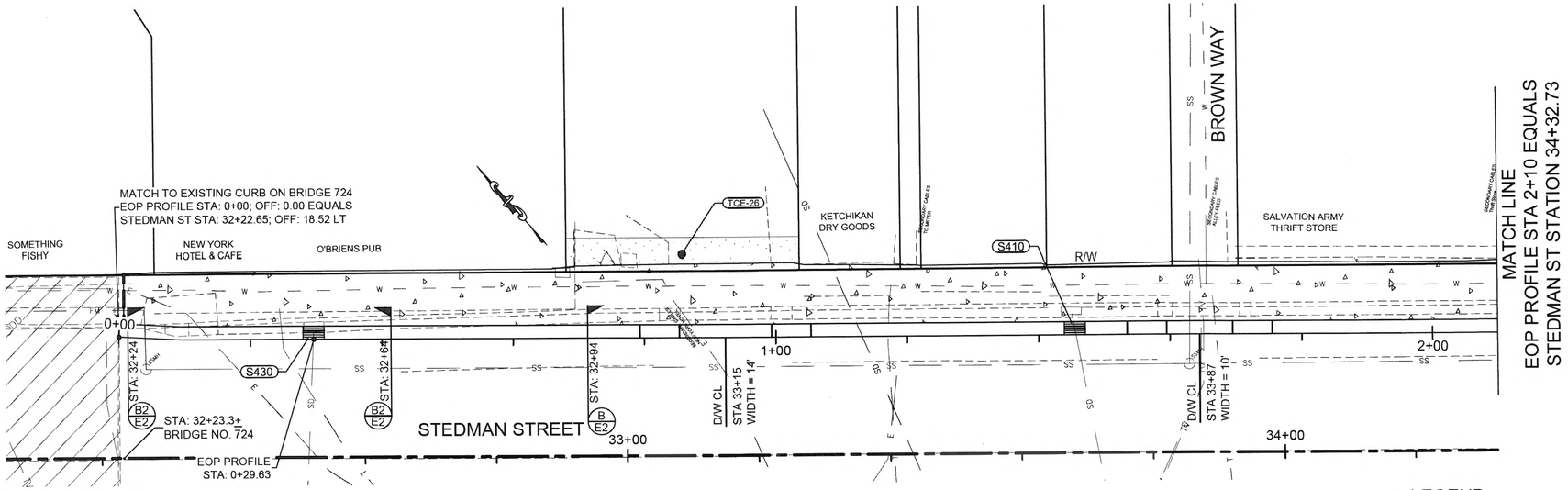
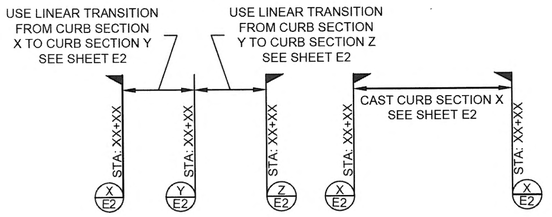
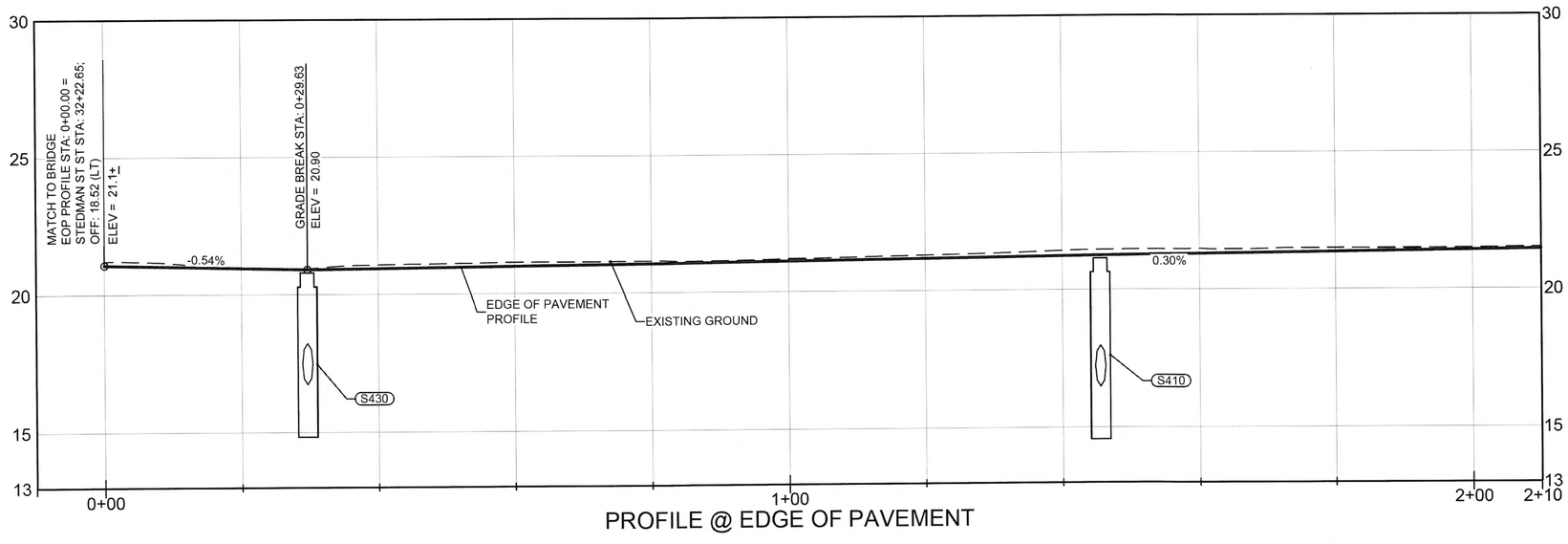


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	9.83		S45° 49' 09.37"E	0+00.00	37848.9096	646666.6233	0+09.83	337842.0582	646673.6734	
LINE	185.42		S48° 52' 12.02"E	0+09.83	37842.0582	646673.6734	1+95.25	337720.0940	646813.3360	
LINE	28.94		S49° 09' 49.51"E	1+95.25	37720.0940	646813.3360	2+24.19	337701.1715	646835.2299	

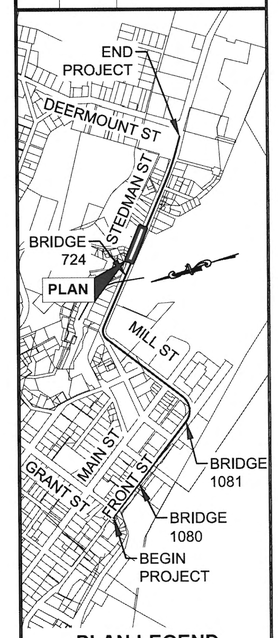
LEGEND





PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By Date 1/17/18



PLAN LEGEND

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
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voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G14	140

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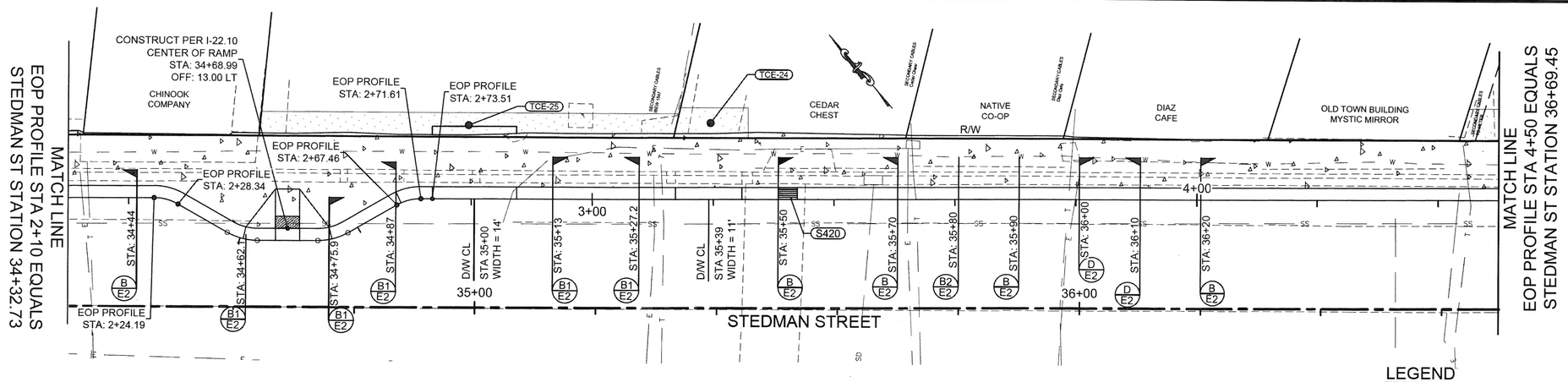
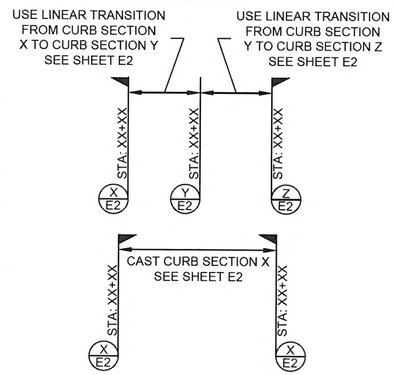
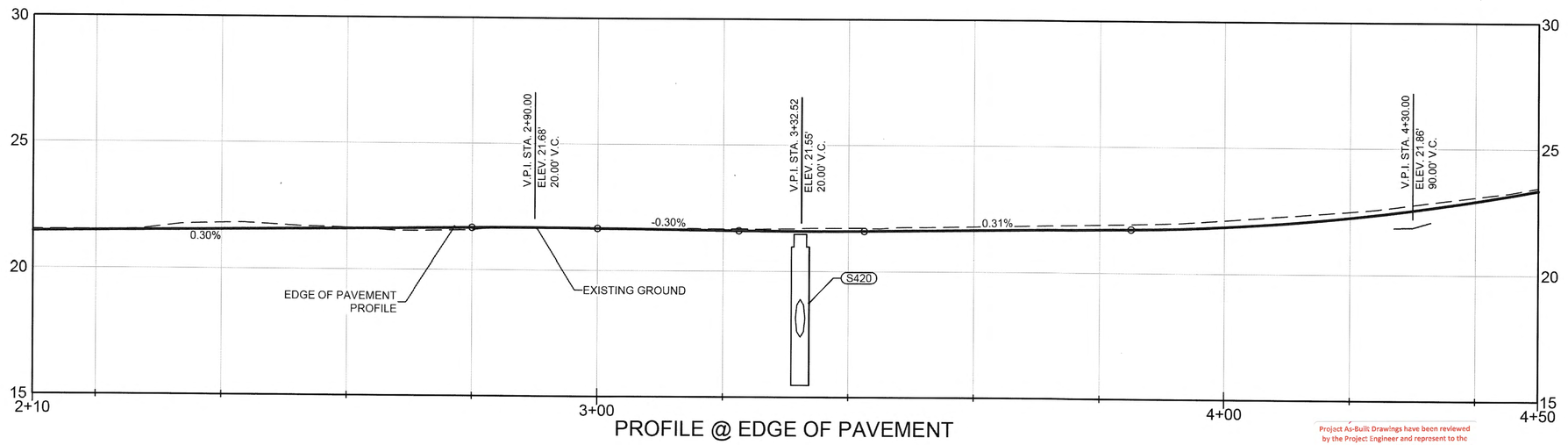


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	28.94		S49° 09' 49.51"E	1+95.25	37720.0940	646813.3360	2+24.19	337701.1715	646835.2299	
CURVE	4.15	8.00		2+24.19	37701.1715	646835.2299	2+28.34	337697.7856	646837.5412	029.6918
LINE	9.36		S19° 28' 18.92"E	2+28.34	37697.7856	646837.5412	2+37.70	337688.9604	646840.6615	
CURVE	5.18	10.00		2+37.70	37688.9604	646840.6615	2+42.88	337684.7280	646843.5505	029.6918
LINE	10.04		S49° 09' 49.51"E	2+42.88	37684.7280	646843.5505	2+52.92	337678.1617	646851.1479	
CURVE	5.18	10.00		2+52.92	37678.1617	646851.1479	2+58.10	337675.9161	646855.7541	029.6918
LINE	9.36		S78° 51' 20.10"E	2+58.10	37675.9161	646855.7541	2+67.46	337674.1068	646864.9382	
CURVE	4.15	8.00'		2+67.46	37674.1068	646864.9382	2+71.61	337672.3103	646868.6231	029.6918
LINE	427.70		S49° 09' 49.51"E	2+71.61	37672.3103	646868.6231	6+99.31	337392.6390	647192.2114	

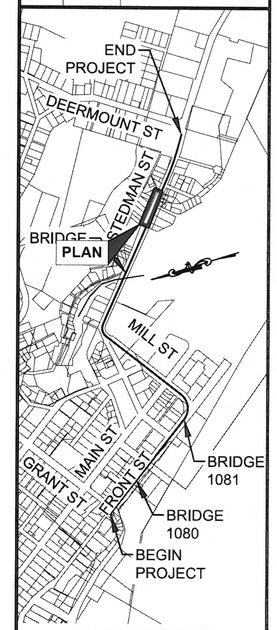
LEGEND





PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: Emily DeLuz Date: 1/27/20



PLAN LEGEND

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
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Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/11/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G15	140

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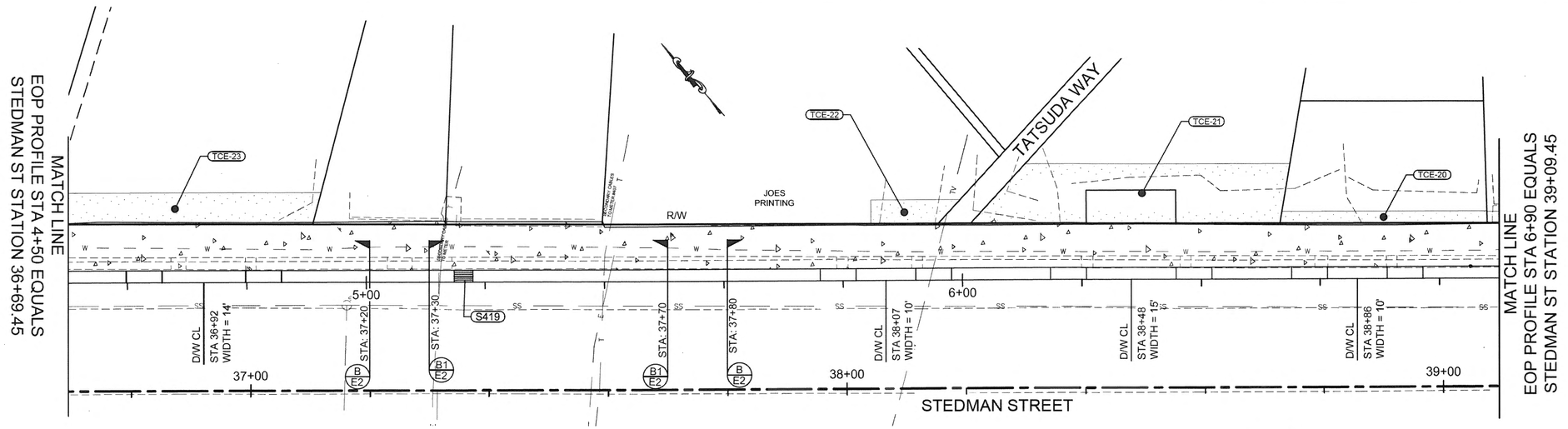
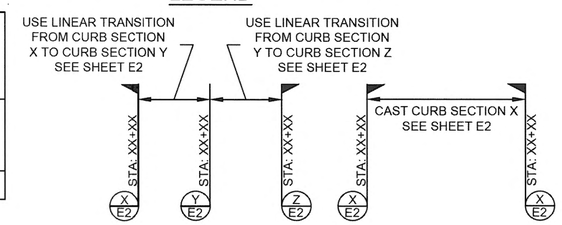
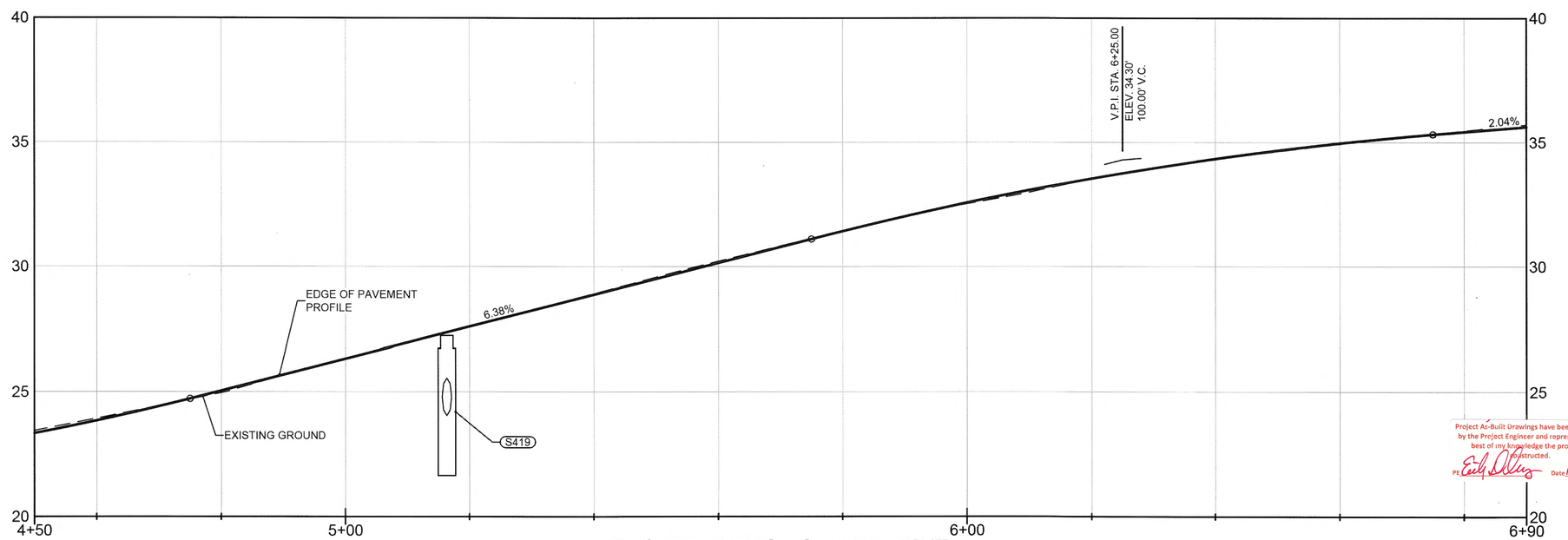


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	427.70		S49° 09' 49.51"E	2+71.61	37672.3103	646868.6231	6+99.31	337392.6390	647192.2114	

LEGEND





PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

Plans Prepared By: R&M Consultants, Inc.
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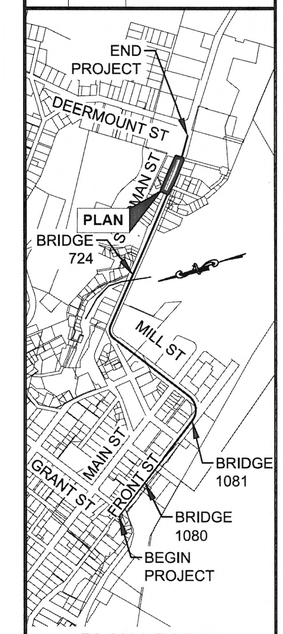


PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/11/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

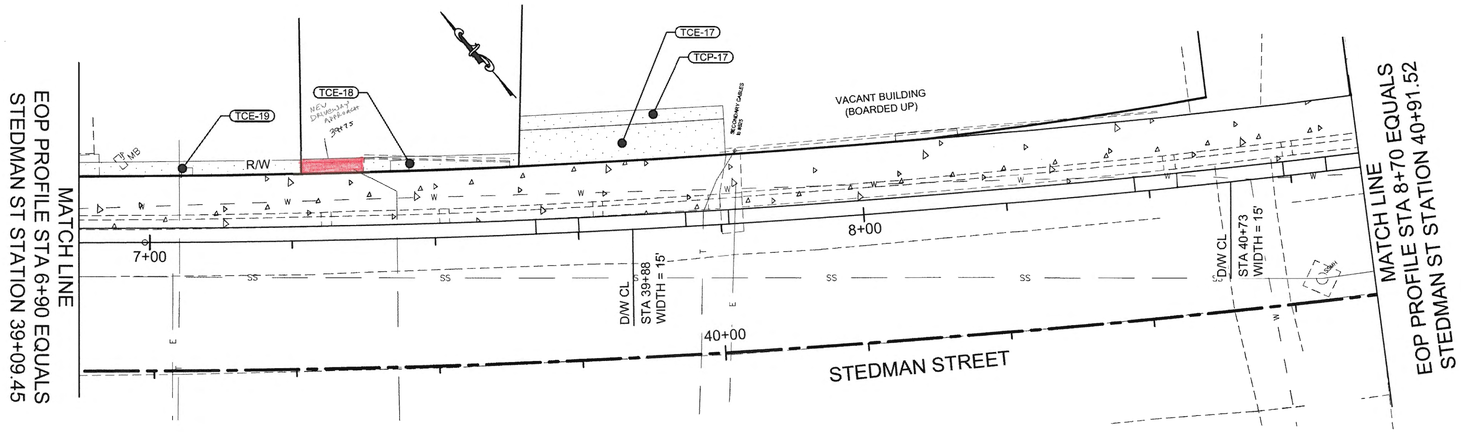
SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION

NH-0902(038)

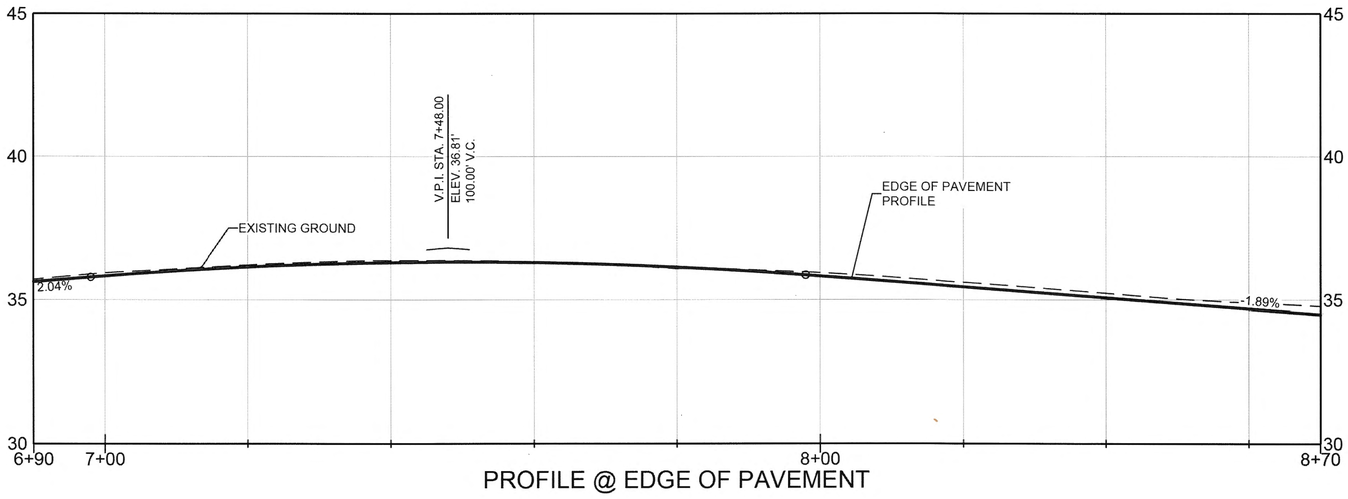
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G16	140

PLOTTED: 8/11/2017 6:15 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS.DWG



LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	427.70		S49° 09' 49.51"E	2+71.61	37672.3103	646868.6231	6+99.31	337392.6390	647192.2114	
CURVE	212.25	1482.00		6+99.31	37392.6390	647192.2114	9+11.55	337265.8044	647362.1662	008.2057



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

Date 1/27/20

Plans Prepared By: R&M Consultants, Inc.
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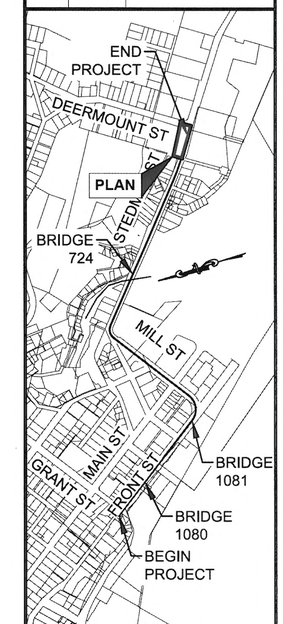


PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/11/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

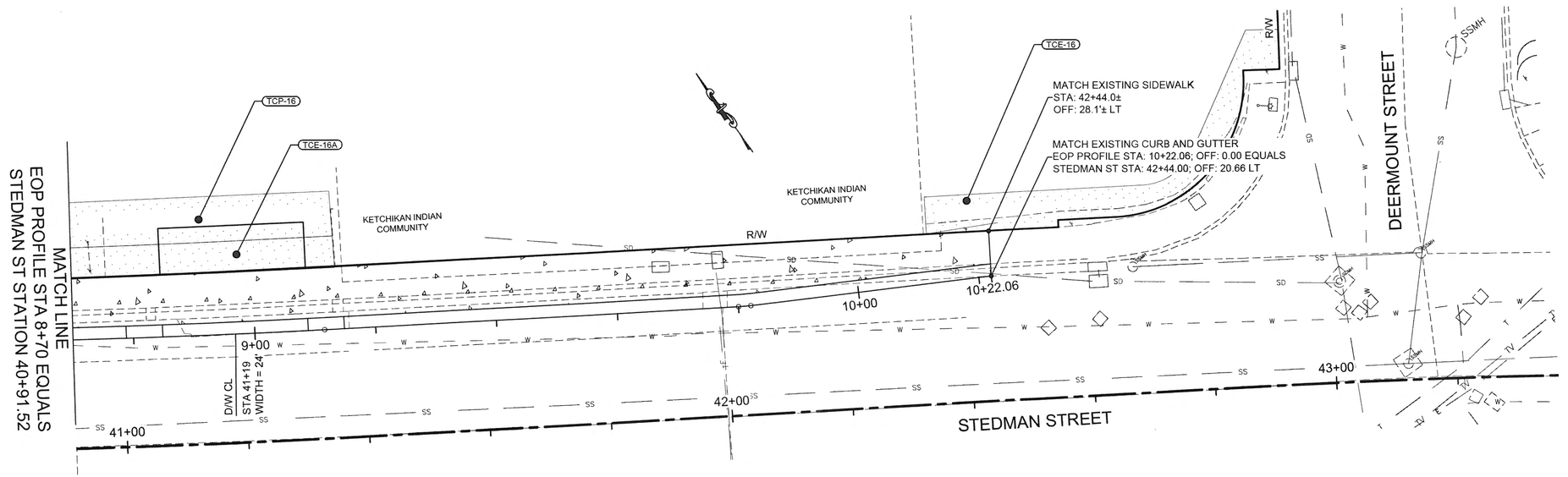
SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION

NH-0902(038)

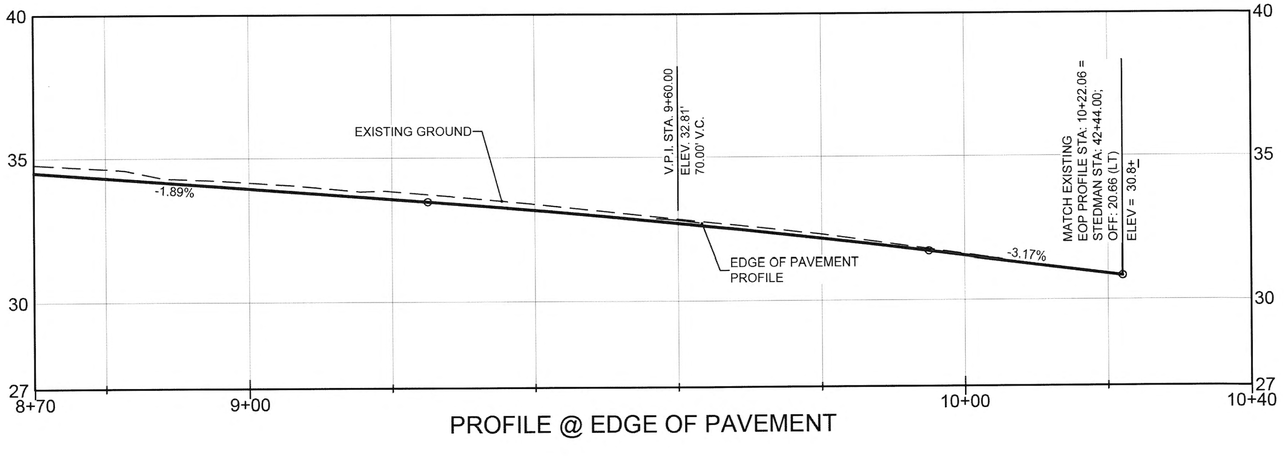
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G17	140

PLOTTED: 8/11/2017 6:15 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS.DWG



LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
CURVE	212.25	1482.00		6+99.31	37392.6390	647192.2114	9+11.55	337265.8044	647362.1662	008.2057
LINE	68.44		S57° 22' 10.00"E	9+11.55	37265.8044	647362.1662	9+79.99	337228.8994	647419.8051	
CURVE	2.08	32.00		9+79.99	37228.8994	647419.8051	9+82.07	337227.8373	647421.5889	003.7178
LINE	39.99		S61° 05' 13.91"E	9+82.07	37227.8373	647421.5889	10+22.06	337208.5047	647456.5913	



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE _____ Date 1/27/20

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

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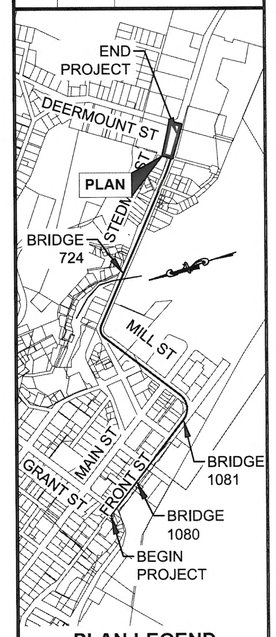

PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/11/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION

NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G18	140

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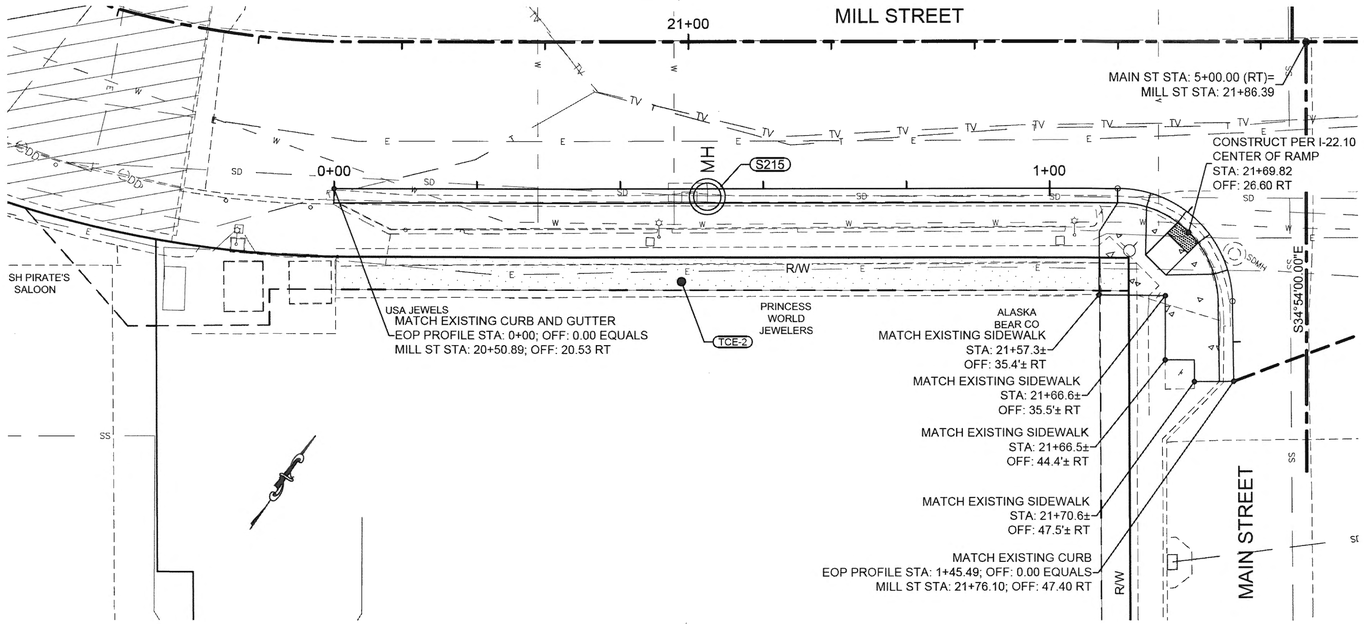

LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	109.46		N55° 06' 00.00"E	0+00.00	37715.6221	645722.2829	1+09.46	337778.2490	645812.0564	
CURVE	24.88	16.00		1+09.46	37778.2490	645812.0564	1+34.34	337774.4874	645834.1866	089.0933
LINE	11.16		S35° 48' 24.30"E	1+34.34	37774.4874	645834.1866	1+45.49	337765.4407	645840.7129	



PROFILE @ EDGE OF PAVEMENT

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PE _____ Date 1/27/20

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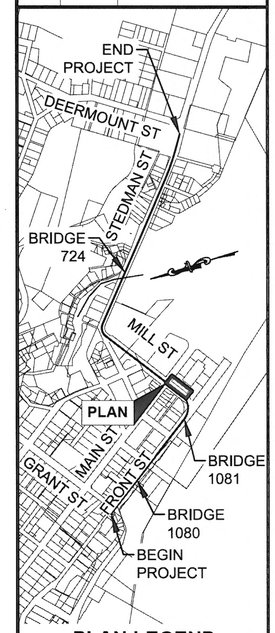

PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G19	140

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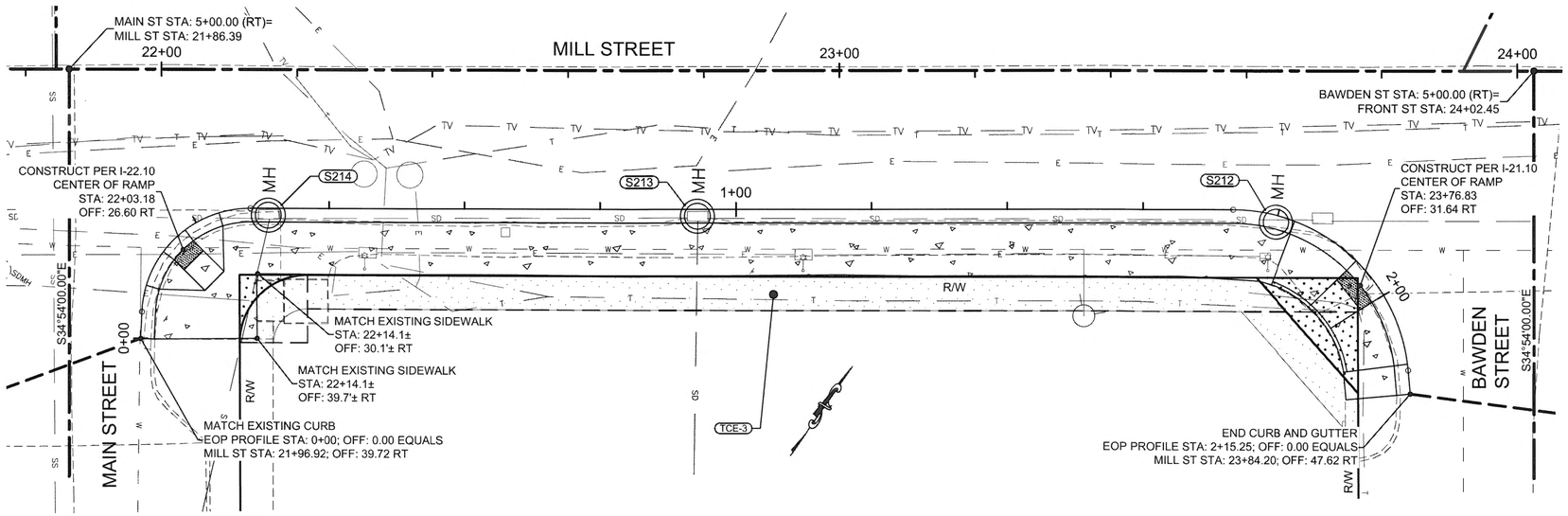
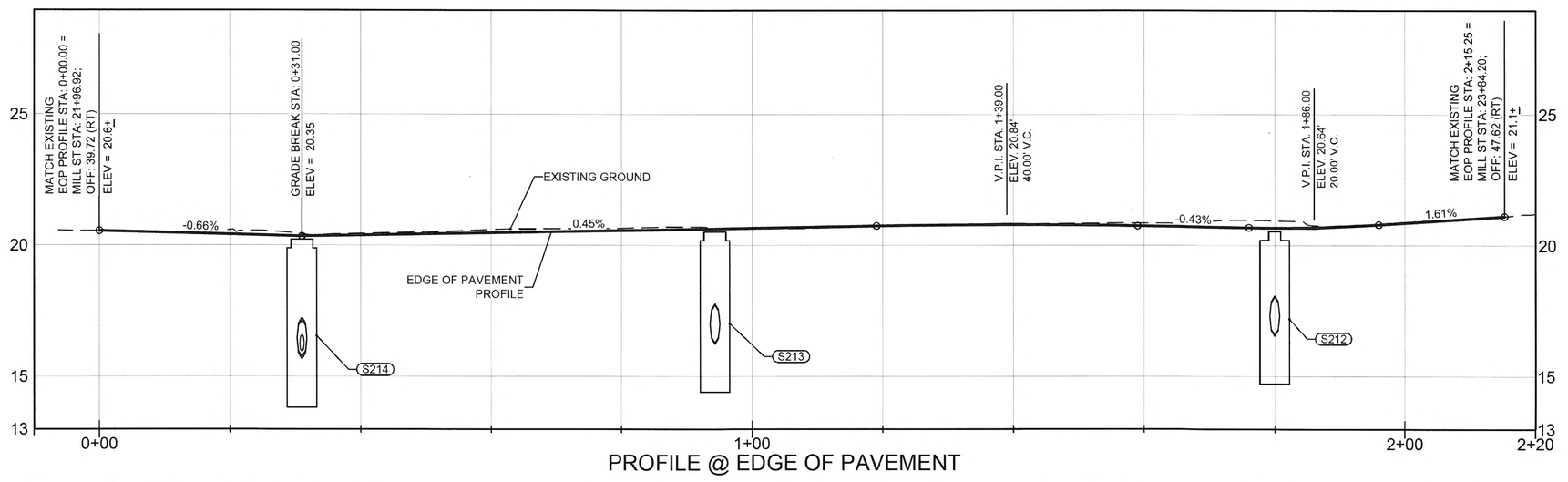


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	3.94		N32° 20' 44.30"W	0+00.00	37783.6494	645853.3983	0+03.94	337786.9793	645851.2895	
CURVE	24.42	16.00		0+03.94	37786.9793	645851.2895	0+28.36	337808.6621	645855.6526	087.4456
LINE	144.91		N55° 06' 00.00"E	0+28.36	37808.6621	645855.6526	1+73.27	337891.5711	645974.4998	
CURVE	38.49	26.00		1+73.27	37891.5711	645974.4998	2+11.76	337886.9865	646009.2702	084.8226
LINE	3.49		S40° 04' 38.78"E	2+11.76	37886.9865	646009.2702	2+15.25	337884.3196	646011.5141	



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Date 1/27/20

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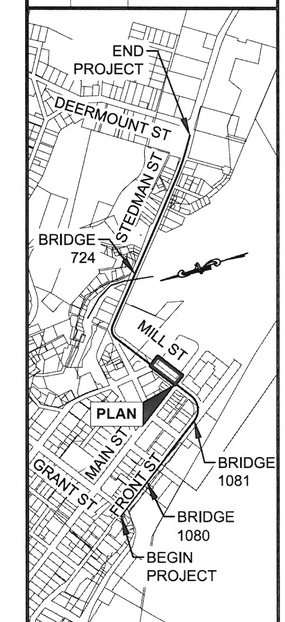

PLAN LEGEND

STATE OF ALASKA 49TH Lance W. DeBernardi No. CE 9632 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION

NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G20	140

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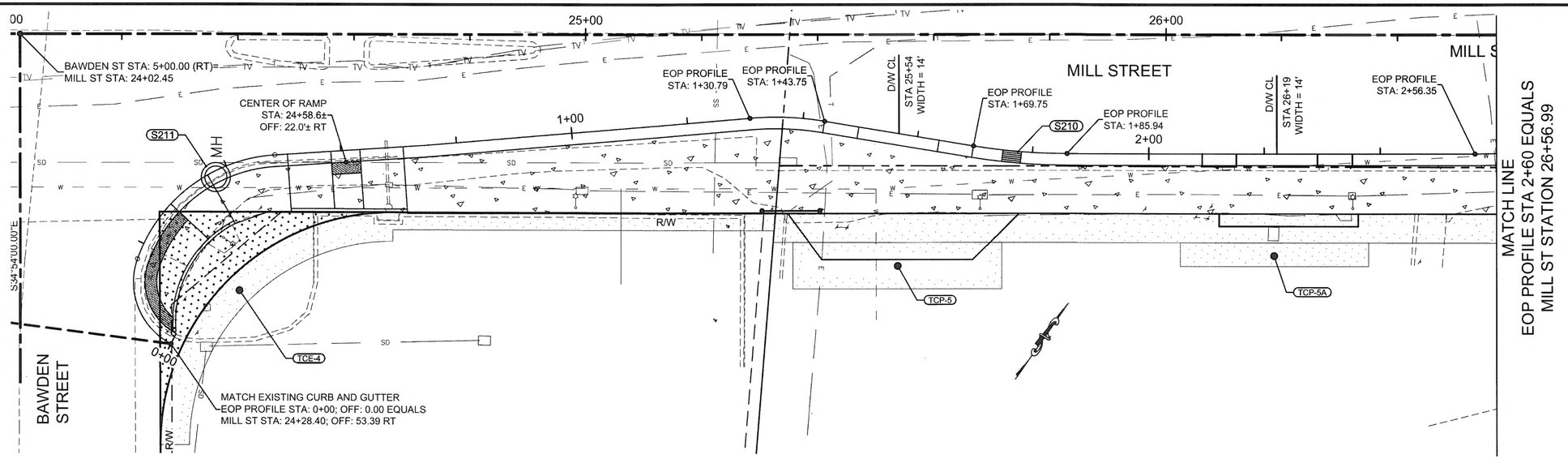
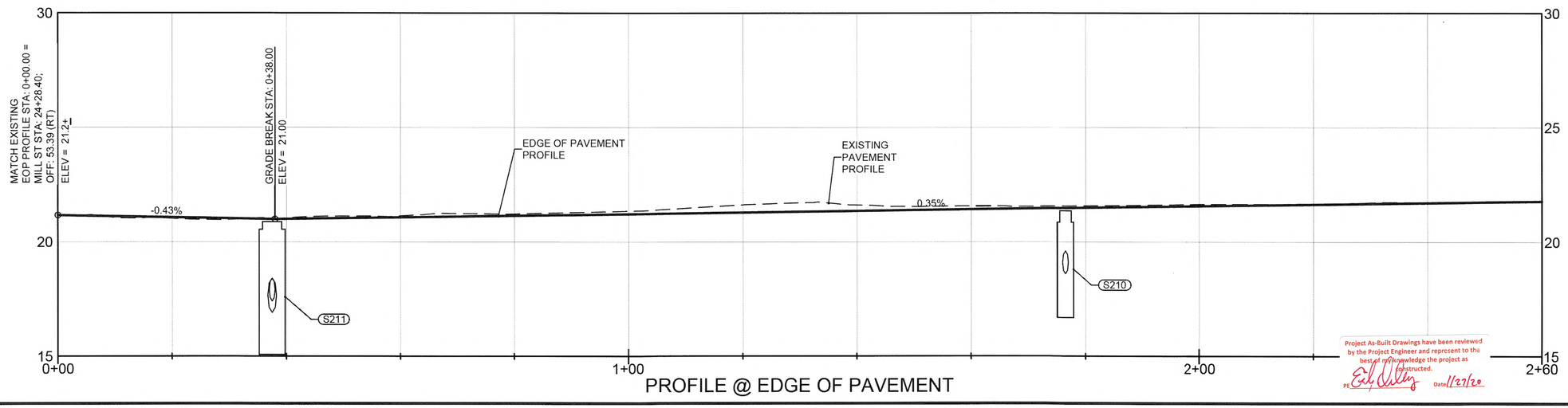


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
CURVE	17.15	12.00		0+00.00	37904.8830	646051.0615	0+17.15	337913.5948	646037.9688	081.8786
CURVE	31.44	27.00		0+17.15	37913.5948	646037.9688	0+48.58	337941.8428	646047.1110	066.7099
LINE	26.23		N51° 17' 19.43"E	0+48.58	37941.8428	646047.1110	0+74.81	337958.2440	646067.5749	
LINE	55.98		N50° 16' 54.03"E	0+74.81	37958.2440	646067.5749	1+30.79	337994.0160	646110.6345	
CURVE	12.96	52.00		1+30.79	37994.0160	646110.6345	1+43.75	338000.9766	646121.5277	014.2806
LINE	26.00		N64° 33' 44.36"E	1+43.75	38000.9766	646121.5277	1+69.75	338012.1444	646145.0071	
CURVE	16.18	98.00		1+69.75	38012.1444	646145.0071	1+85.94	338020.2687	646158.9835	009.4623
LINE	70.42		N55° 06' 00.00"E	1+85.94	38020.2687	646158.9835	2+56.35	338060.5568	646216.7352	
CURVE	16.18	98.00		2+56.35	38060.5568	646216.7352	2+72.54	338070.8683	646229.1858	009.4623



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Eric Dalley Date 11/27/20

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Plans Prepared By: R&M Consultants, Inc.
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ADDENDUM NUMBER
ATTACHMENT NUMBER

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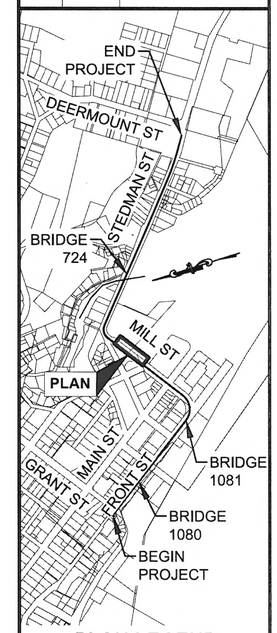


PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
11/17/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

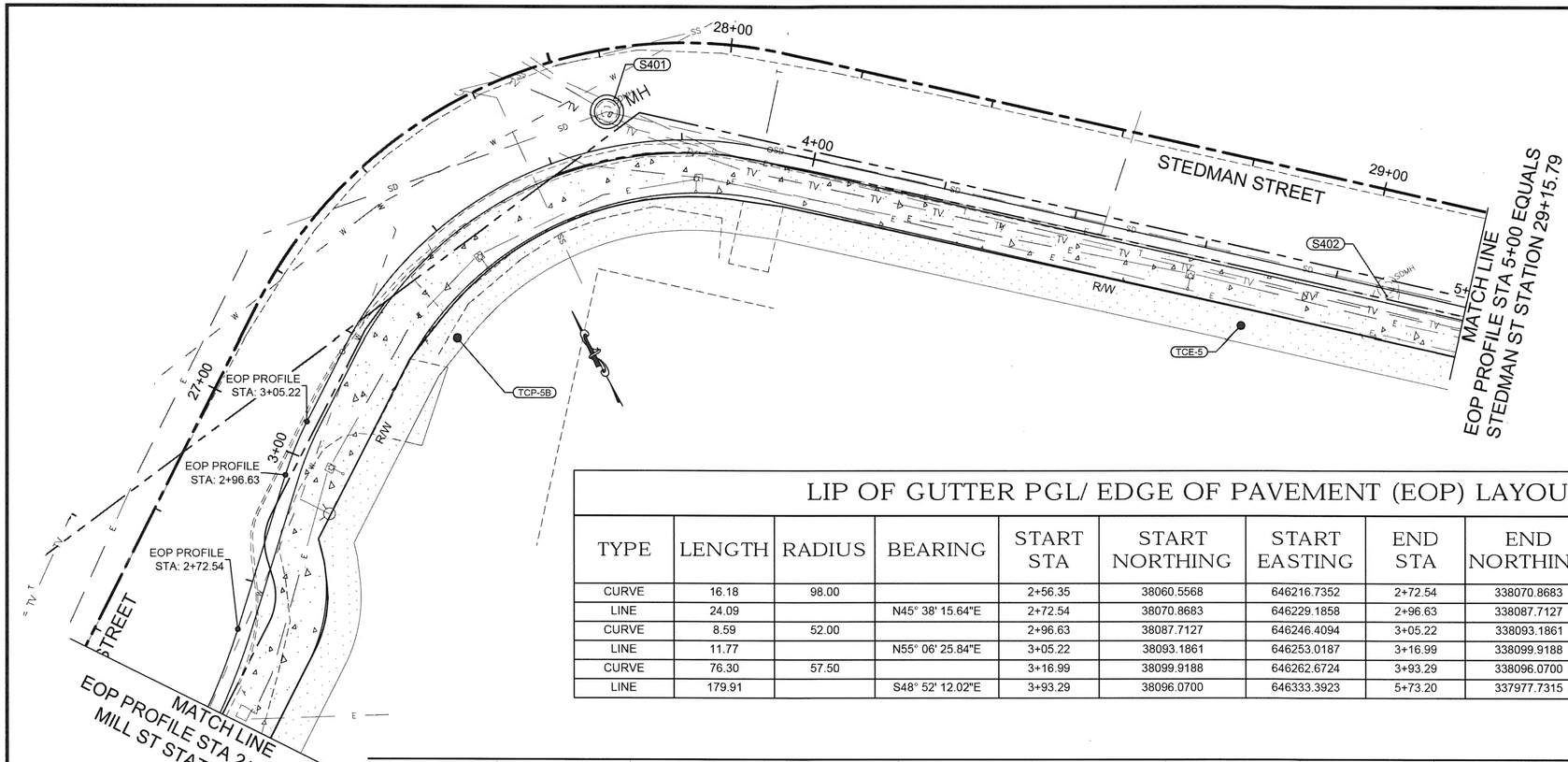
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

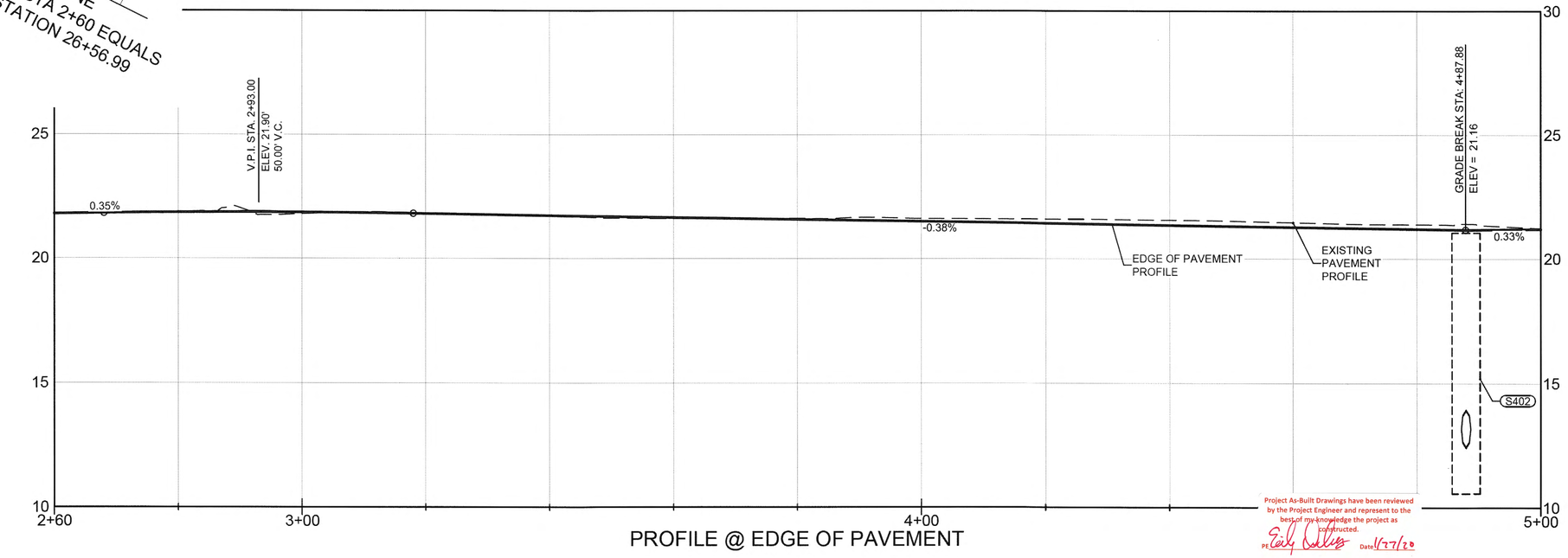
SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G21	140



LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
CURVE	16.18	98.00		2+56.35	38060.5568	646216.7352	2+72.54	338070.8683	646229.1858	009.4623
LINE	24.09		N45° 38' 15.64"E	2+72.54	38070.8683	646229.1858	2+96.63	338087.7127	646246.4094	
CURVE	8.59	52.00		2+96.63	38087.7127	646246.4094	3+05.22	338093.1861	646253.0187	009.4662
LINE	11.77		N55° 06' 25.84"E	3+05.22	38093.1861	646253.0187	3+16.99	338099.9188	646262.6724	
CURVE	76.30	57.50		3+16.99	38099.9188	646262.6724	3+93.29	338096.0700	646333.3923	076.0297
LINE	179.91		S48° 52' 12.02"E	3+93.29	38096.0700	646333.3923	5+73.20	337977.7315	646468.9030	



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

Plans Prepared By: R&M Consultants, Inc.
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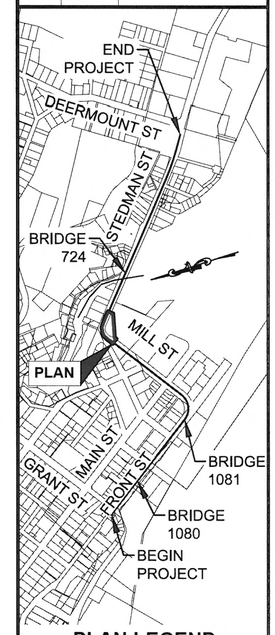

PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
R/M
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G22	140

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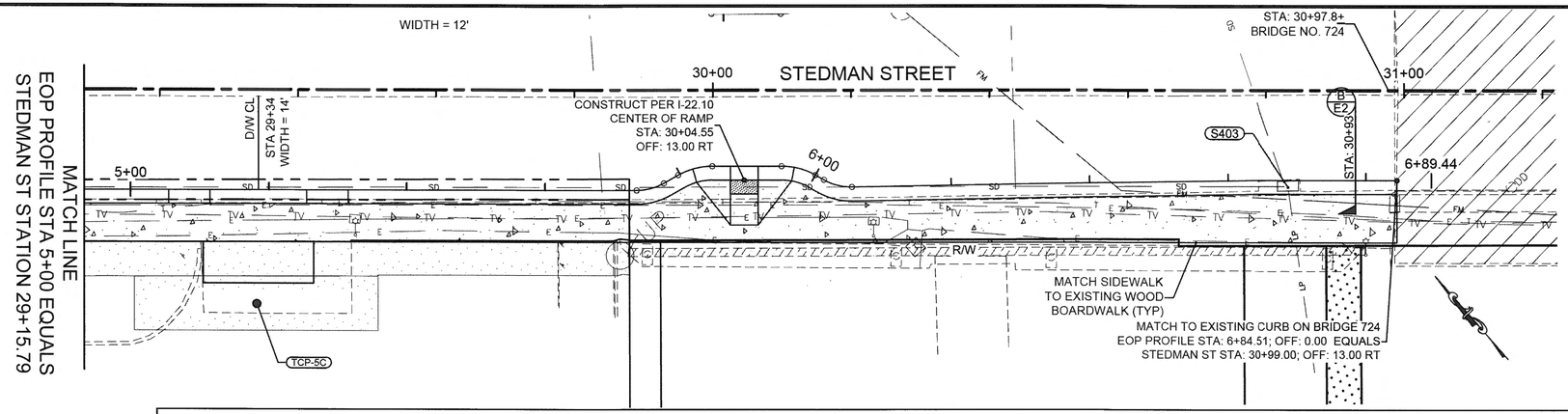
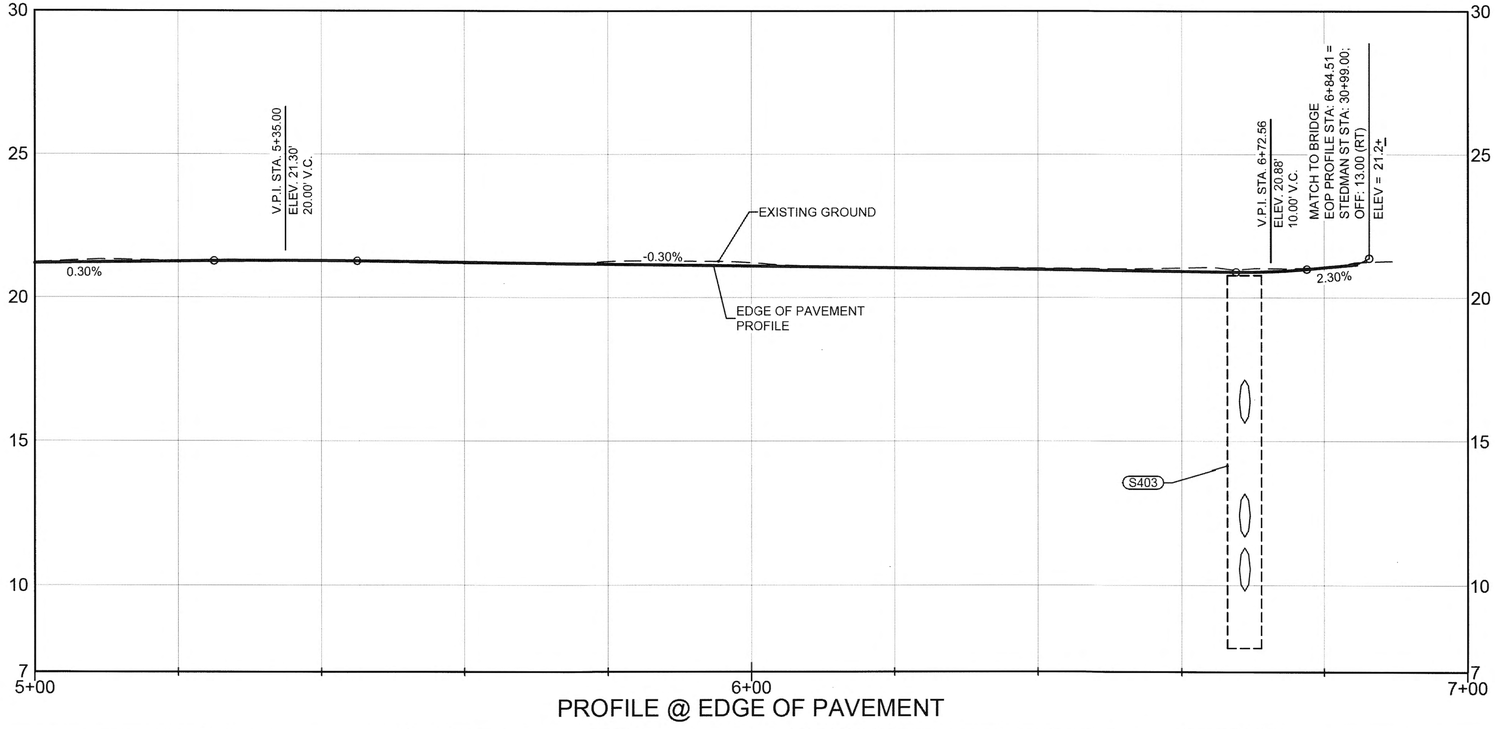


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	179.91		S48° 52' 12.02"E	3+93.29	38096.0700	646333.3923	5+73.20	337977.7315	646468.9030	
CURVE	4.10	8.00		5+73.20	37977.7315	646468.9030	5+77.30	337975.9244	646472.5385	029.3981
LINE	2.41		S78° 16' 05.12"E	5+77.30	37975.9244	646472.5385	5+79.71	337975.4347	646474.8965	
CURVE	5.13	10.00		5+79.71	37975.4347	646474.8965	5+84.84	337973.1758	646479.4408	029.3981
LINE	10.04		S48° 52' 12.02"E	5+84.84	37973.1758	646479.4408	5+94.88	337966.5698	646487.0055	
CURVE	5.13	10.00		5+94.88	37966.5698	646487.0055	6+00.02	337962.3711	646489.8558	029.3981
LINE	1.39		S19° 28' 18.92"E	6+00.02	37962.3711	646489.8558	6+01.40	337961.0645	646490.3178	
CURVE	4.24	8.00		6+01.40	37961.0645	646490.3178	6+05.64	337957.6170	646492.7011	030.3709
LINE	58.72		S49° 50' 34.10"E	6+05.64	37957.6170	646492.7011	6+64.36	337919.7482	646537.5809	
LINE	20.14		S48° 52' 12.02"E	6+64.36	37919.7482	646537.5809	6+84.51	337906.4987	646552.7530	

SHEET NOTE:

TRANSITION BETWEEN EXISTING CURB AT BRIDGE 724 TO STANDARD CURB AND GUTTER AT STA: 30+93 (RT) OVER 6 FEET.



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/22/20

Plans Prepared By: R&M Consultants, Inc.
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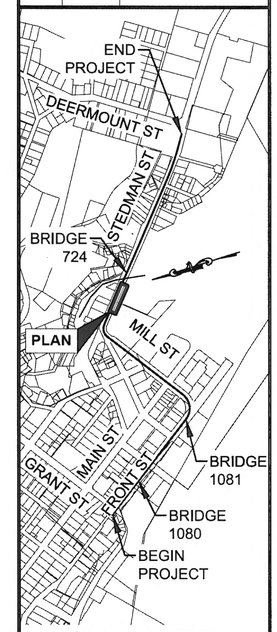


PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

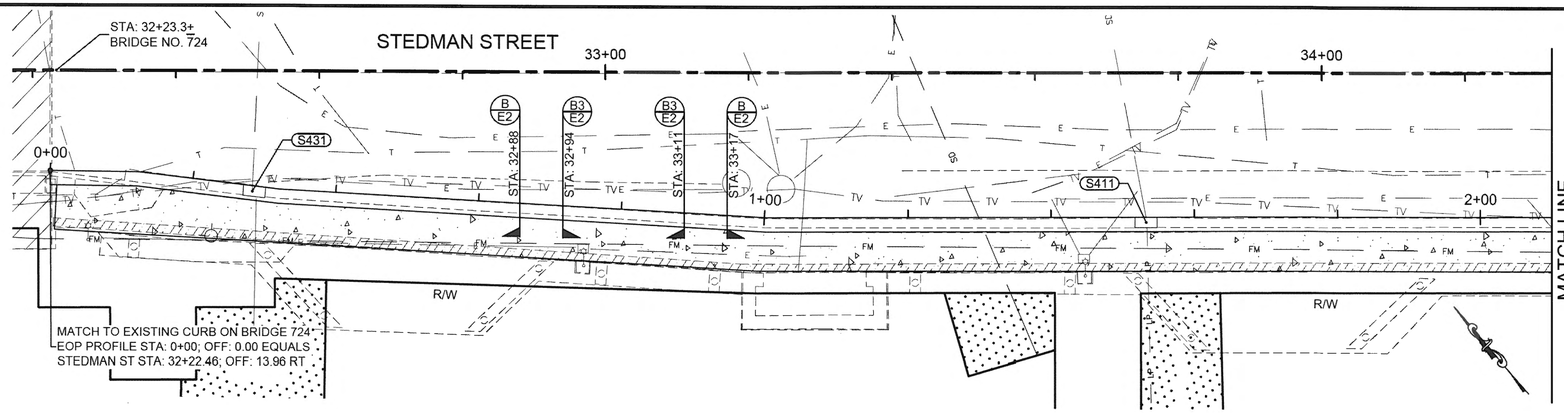
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G23	140

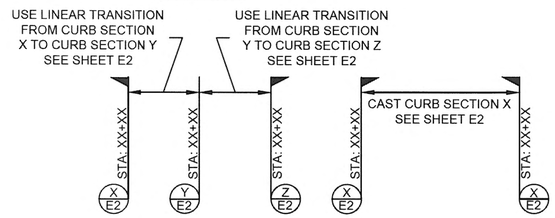
PLOTTED: 8/11/2017 6:20 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS.DWG



SHEET NOTES:

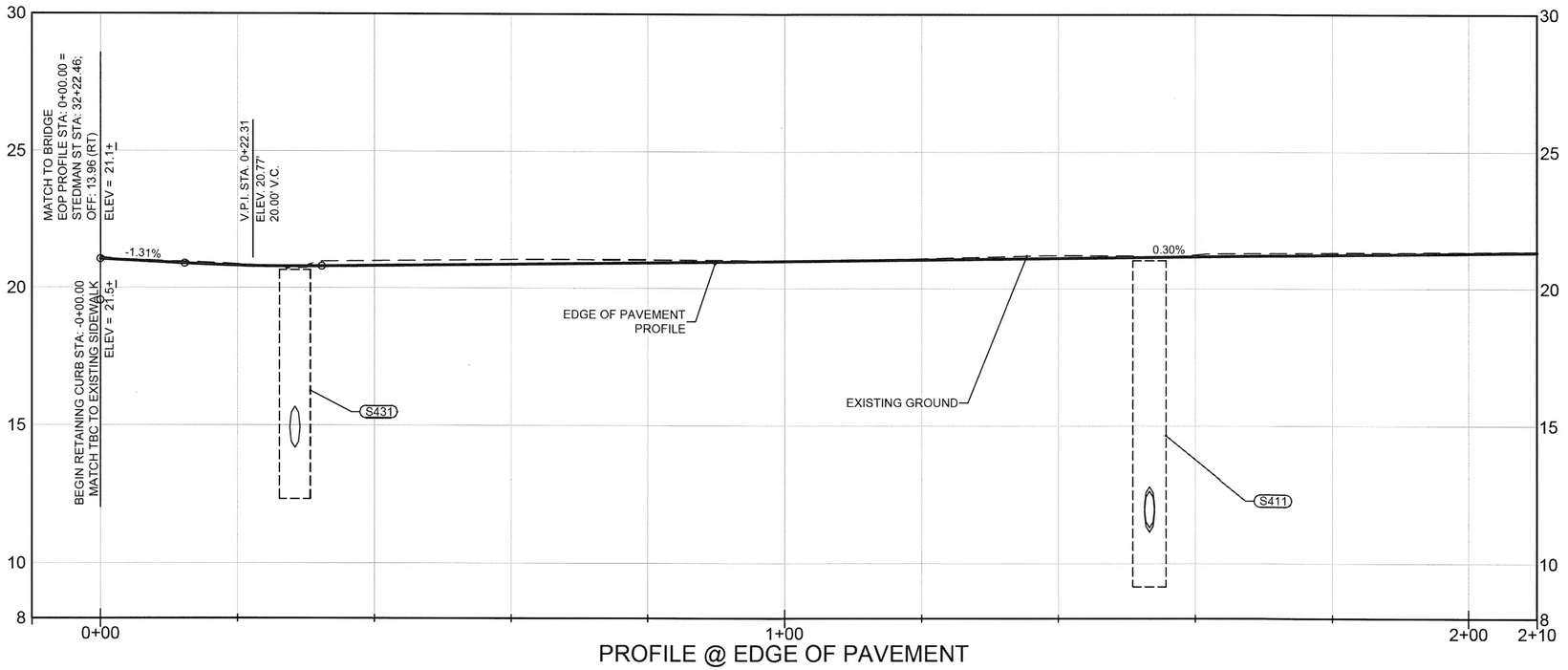
1. FOR OFFSET RIGHT, THE EXISTING SIDEWALK IS TO REMAIN SOUTH OF BRIDGE 724 TO APPROXIMATE STATION 35+70.
2. CAST THE LIP OF GUTTER PER THE EDGE OF PAVEMENT PROFILE SHOWN.
3. MATCH THE TOP BACK OF CURB TO THE EXISTING SIDEWALK.

LEGEND



LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	12.34		S48° 01' 32.48"E	0+00.00	37824.5670	646645.1106	0+12.34	337816.3156	646654.2831	
LINE	19.83		S41° 58' 55.94"E	0+12.34	37816.3156	646654.2831	0+32.16	337801.5778	646667.5448	
LINE	68.09		S45° 43' 10.51"E	0+32.16	37801.5778	646667.5448	1+00.25	337754.0389	646716.2929	
LINE	120.71		S48° 58' 32.28"E	1+00.25	37754.0389	646716.2929	2+20.96	337674.8104	646807.3567	



PROFILE @ EDGE OF PAVEMENT

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PE _____ Date 1/27/20

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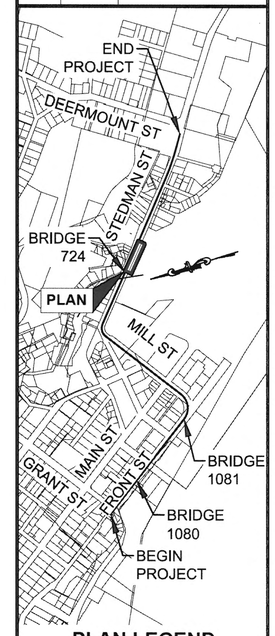
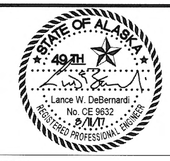


PLAN LEGEND



CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G24	140

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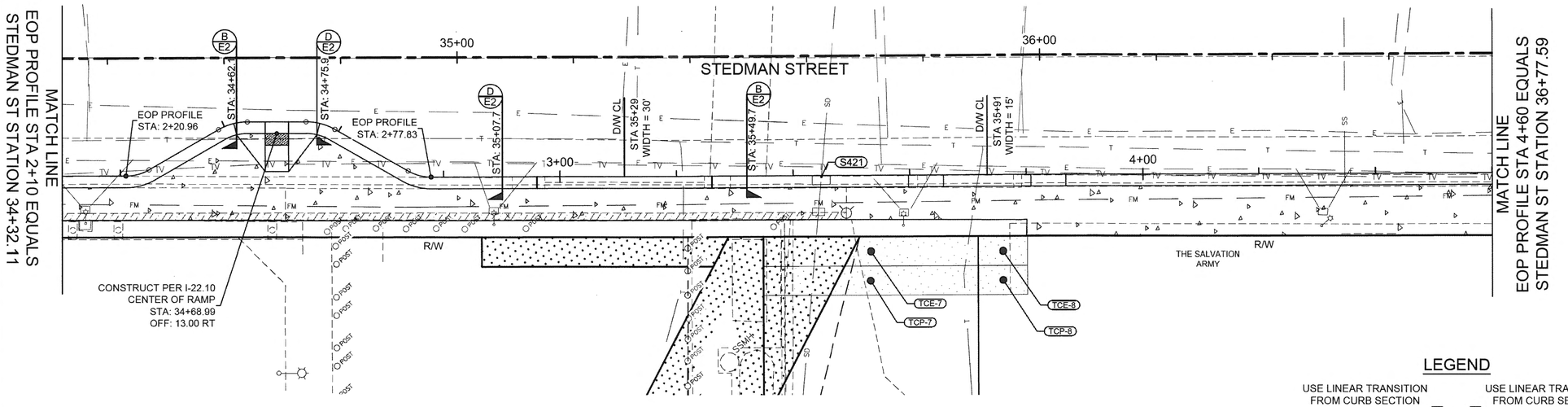
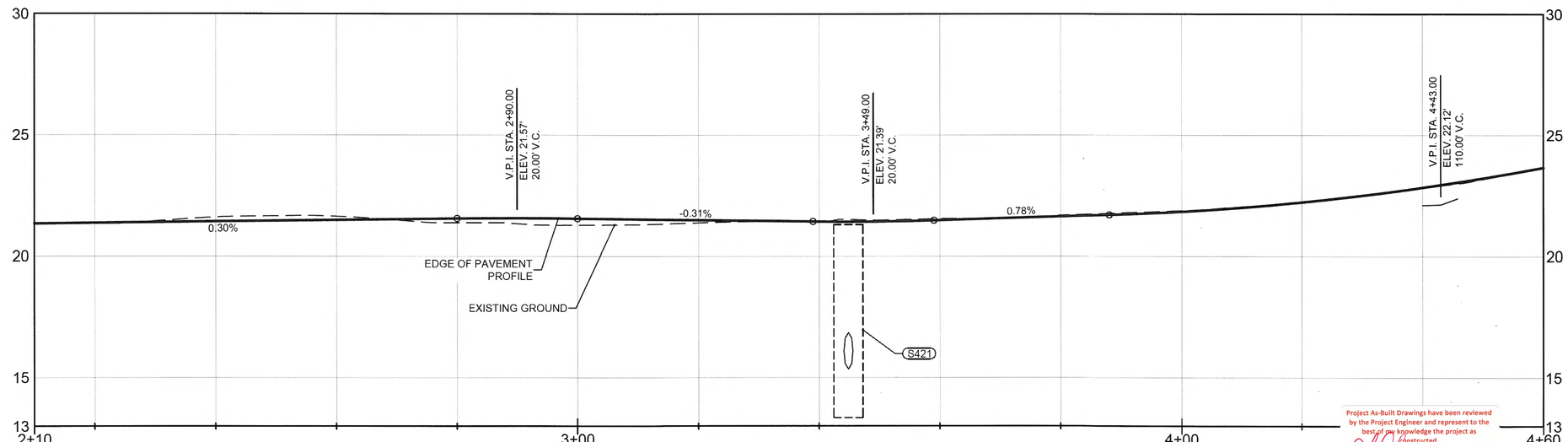


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	120.71		S48° 58' 32.28"E	1+00.25	37754.0389	646716.2929	2+20.96	337674.8104	646807.3567	
CURVE	4.17	8.00		2+20.96	37674.8104	646807.3567	2+25.13	337672.9967	646811.0615	029.8799
LINE	13.74		S78° 51' 20.10"E	2+25.13	37672.9967	646811.0615	2+38.87	337670.3405	646824.5451	
CURVE	5.18	10.00		2+38.87	37670.3405	646824.5451	2+44.06	337668.0948	646829.1513	029.6918
LINE	10.04		S49° 09' 49.51"E	2+44.06	37668.0948	646829.1513	2+54.10	337661.5285	646836.7487	
CURVE	5.18	10.00		2+54.10	37661.5285	646836.7487	2+59.28	337657.2962	646839.6377	029.6918
LINE	14.41		S19° 28' 18.92"E	2+59.28	37657.2962	646839.6377	2+73.69	337643.7125	646844.4405	
CURVE	4.15	8.00		2+73.69	37643.7125	646844.4405	2+77.83	337640.3266	646846.7517	029.6918
LINE	203.38		S49° 09' 49.51"E	2+77.83	37640.3266	646846.7517	4+81.21	337507.3374	647000.6243	

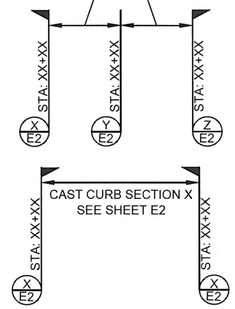


PROFILE @ EDGE OF PAVEMENT

LEGEND

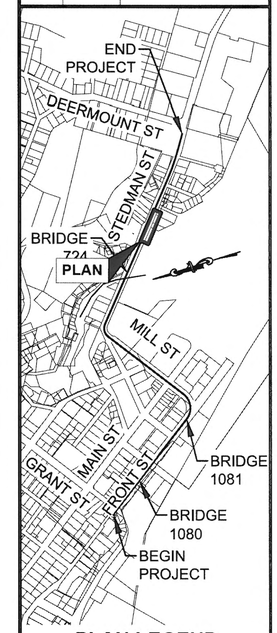
USE LINEAR TRANSITION FROM CURB SECTION X TO CURB SECTION Y SEE SHEET E2

USE LINEAR TRANSITION FROM CURB SECTION Y TO CURB SECTION Z SEE SHEET E2



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

By: _____ Date: 1/27/20



PLAN LEGEND

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
R/M
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

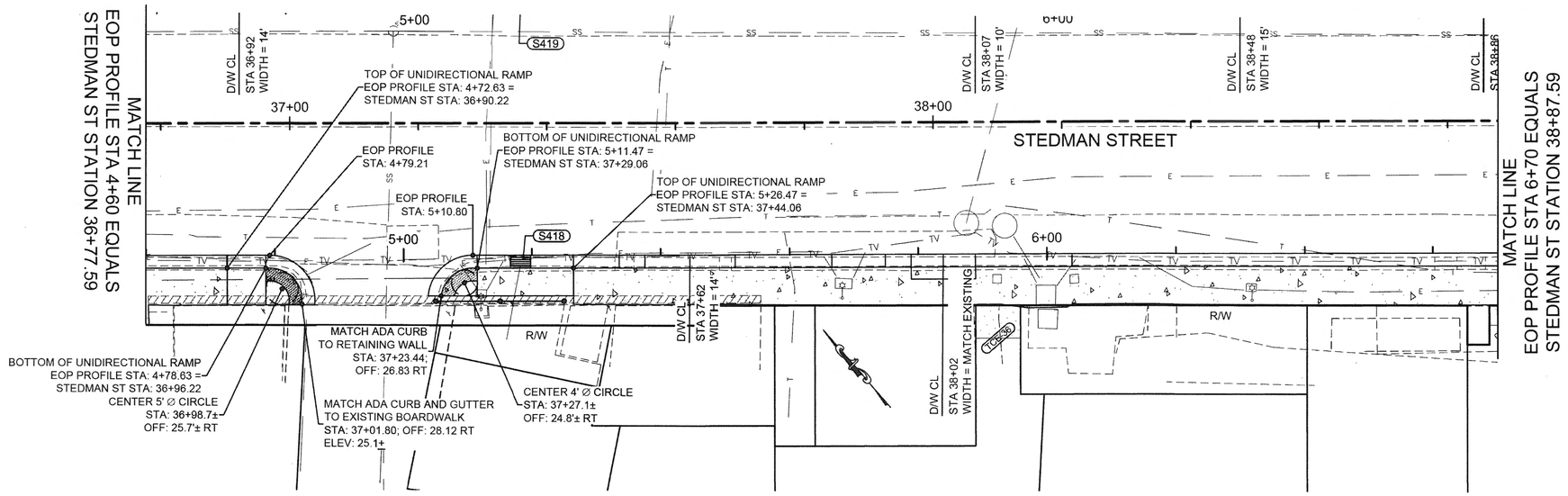
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G25	140

PLOTTED: 8/11/2017 6:21 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS.DWG



LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	203.38		S49° 09' 49.51"E	2+77.83	37640.3266	646846.7517	4+81.21	337507.3374	647000.6243	
LINE	29.59		S49° 09' 49.51"E	4+81.21	37507.3374	647000.6243	5+10.80	337487.9878	647023.0124	
LINE	190.36		S49° 09' 49.51"E	5+10.80	37487.9878	647023.0124	7+01.17	337363.5106	647167.0363	



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
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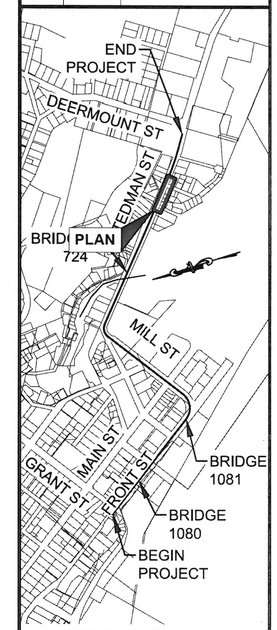
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G26	140

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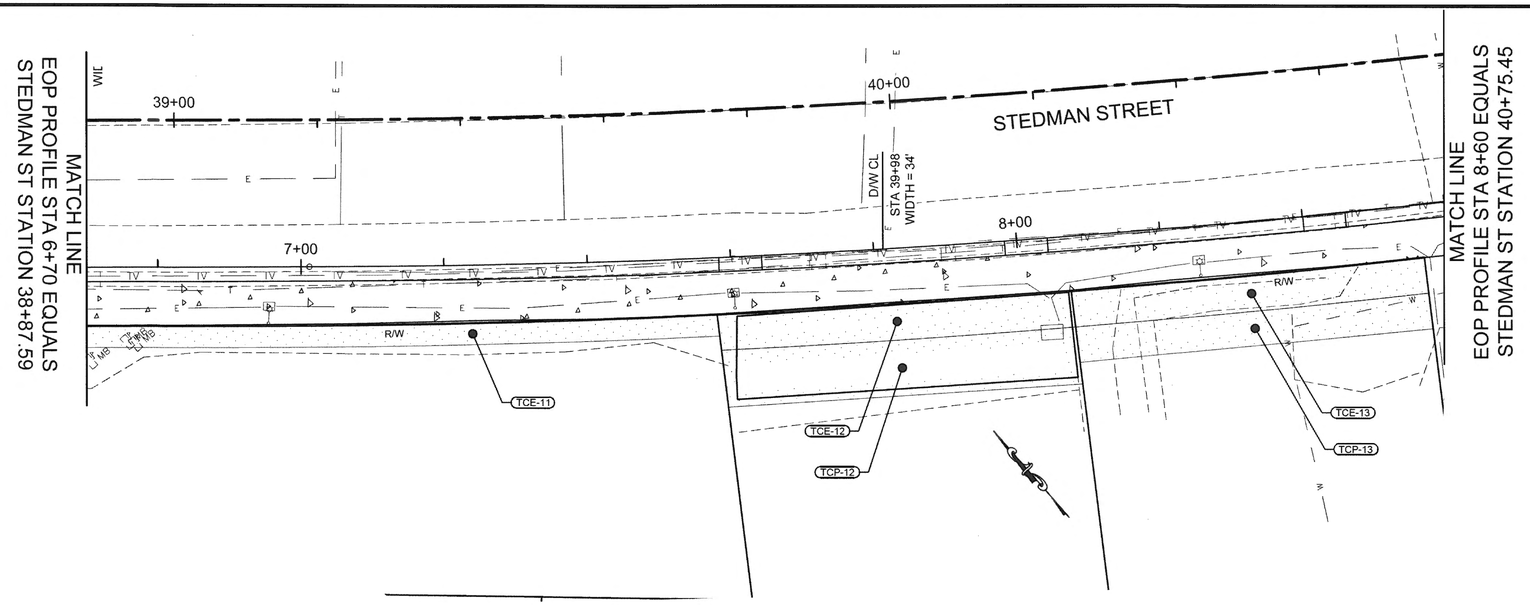
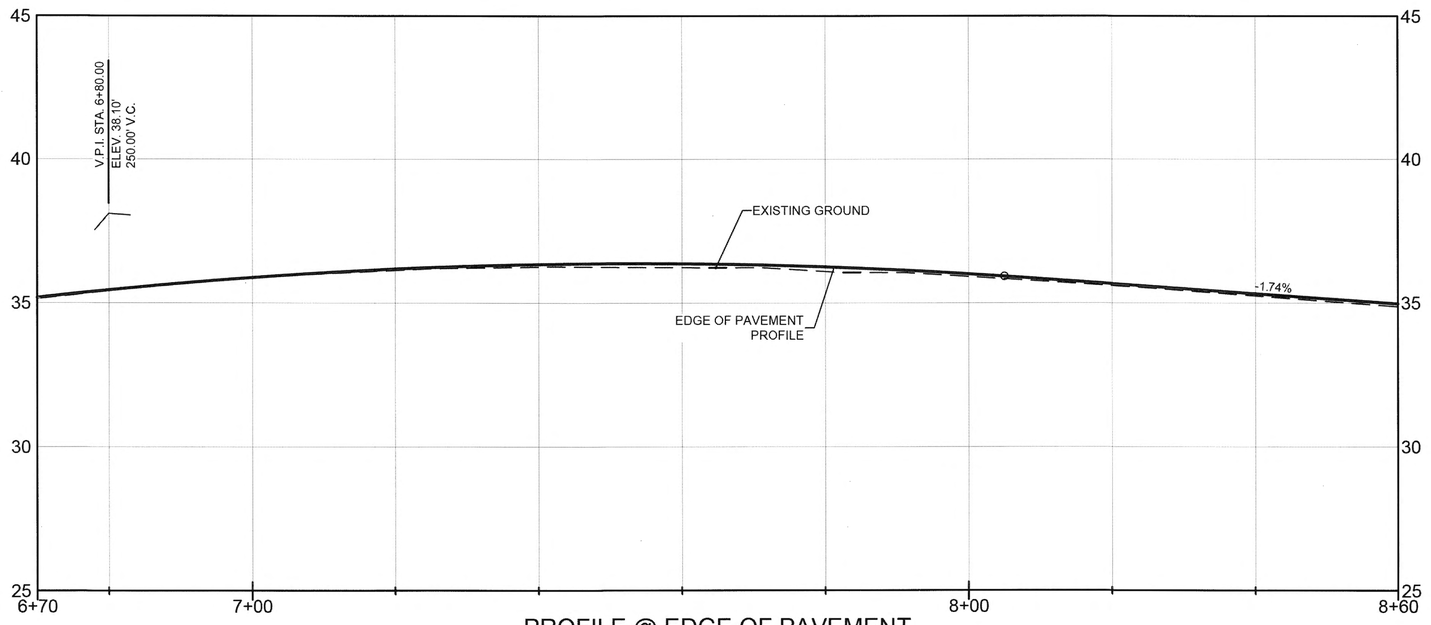


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
LINE	190.36		S49° 09' 49.51"E	5+10.80	37487.9878	647023.0124	7+01.17	337363.5106	647167.0363	
CURVE	217.76	1520.00		7+01.17	37363.5106	647167.0363	9+18.93	337233.3810	647341.4063	008.2057



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Dillon Date 1/27/20

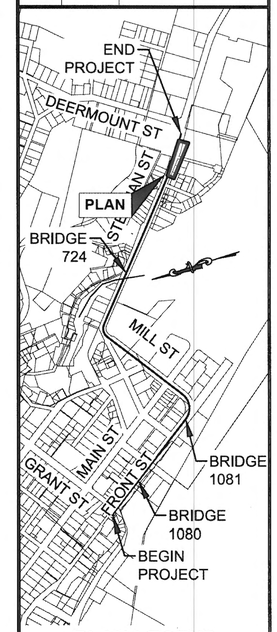
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
P/M/T
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G27	140

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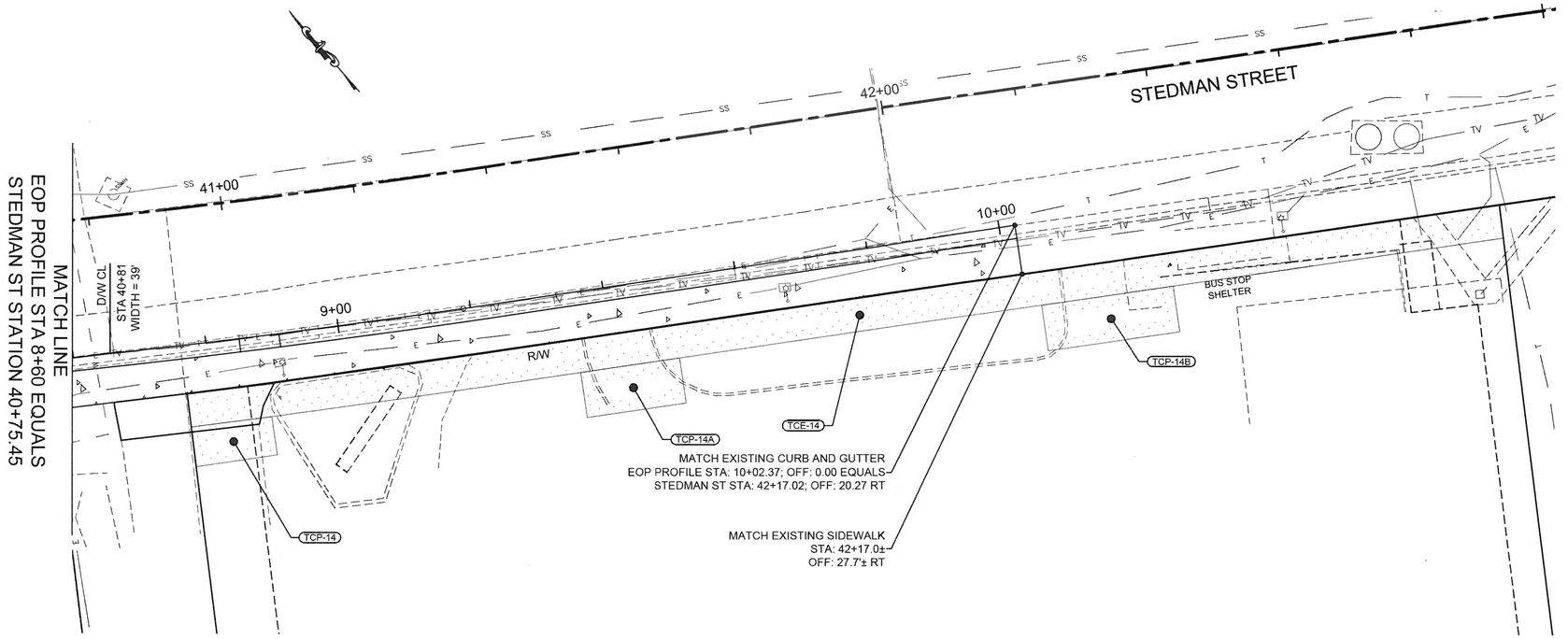
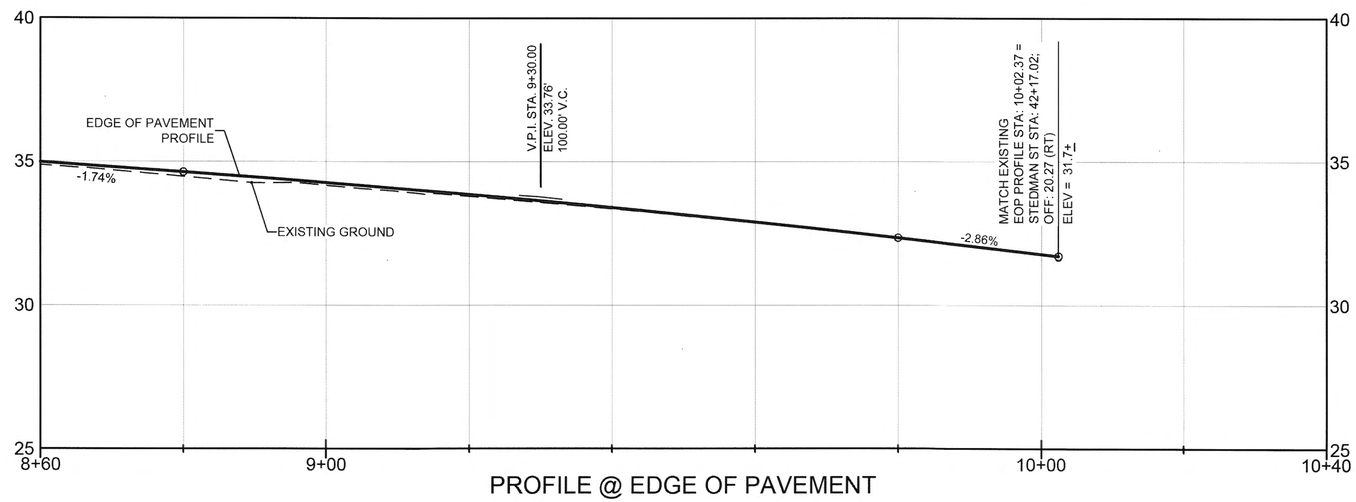


LIP OF GUTTER PGL/ EDGE OF PAVEMENT (EOP) LAYOUT

TYPE	LENGTH	RADIUS	BEARING	START STA	START NORTHING	START EASTING	END STA	END NORTHING	END EASTING	DELTA
CURVE	217.76	1520.00		7+01.17	37363.5106	647167.0363	9+18.93	337233.3810	647341.4063	008.2057
LINE	63.46		S57° 22' 10.00"E	9+18.93	37233.3810	647341.4063	9+82.38	337199.1636	647394.8478	
LINE	19.99		S58° 02' 18.00"E	9+82.38	37199.1636	647394.8478	10+02.37	337188.5820	647411.8071	



PROFILE @ EDGE OF PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

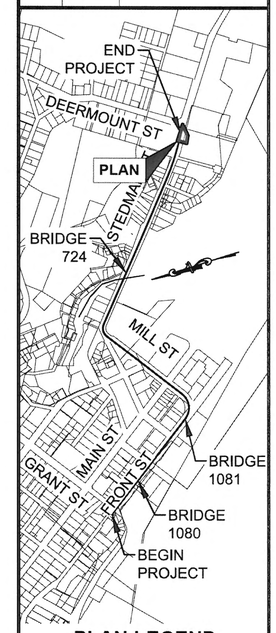
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDEWALK AND CURB IMPROVEMENTS

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G28	140

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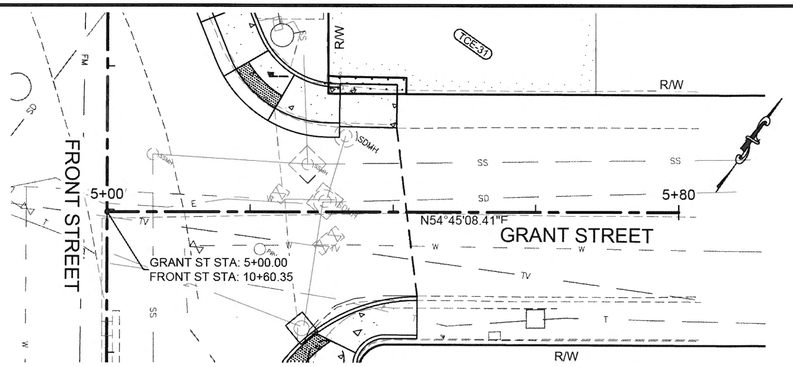
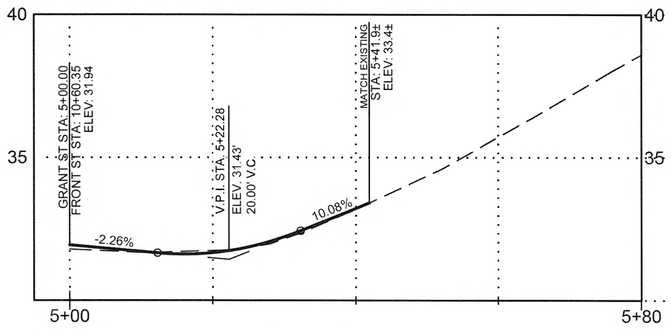
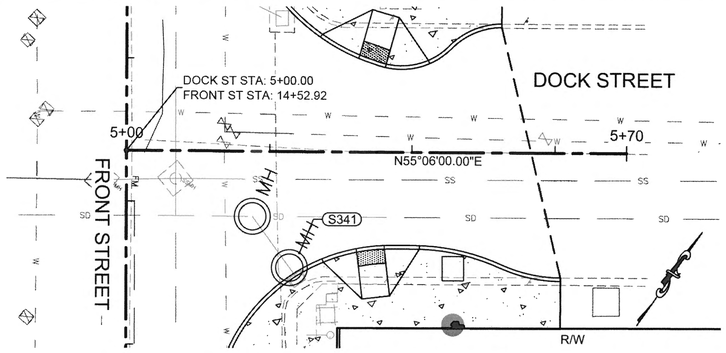
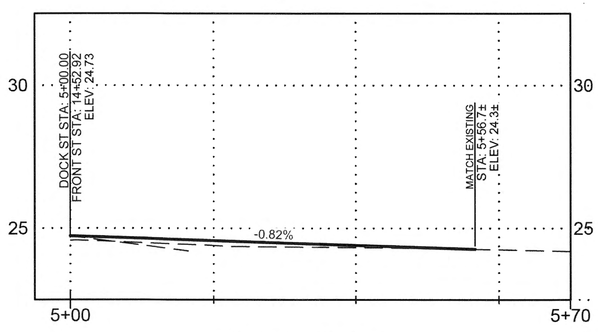


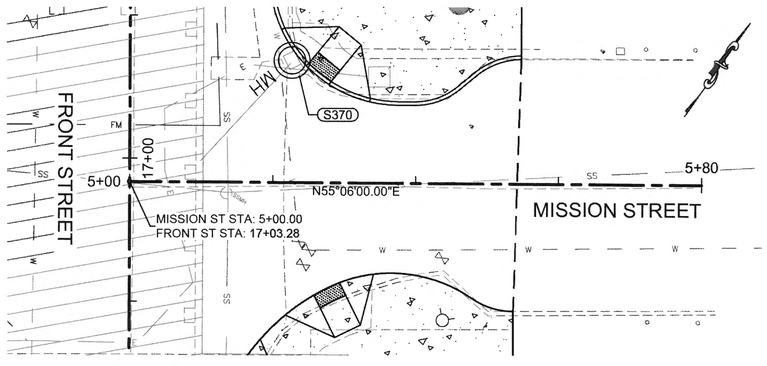


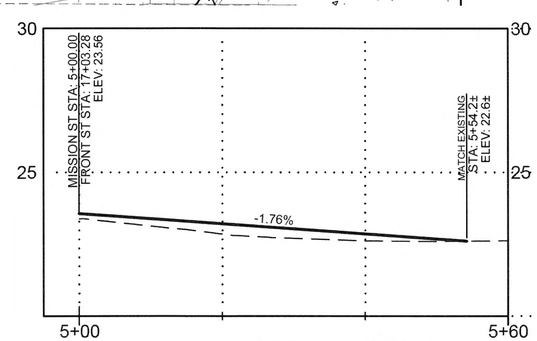
GRANT ST PROFILE



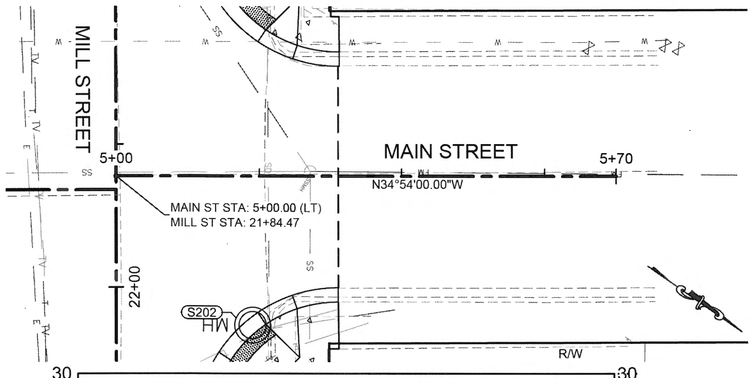


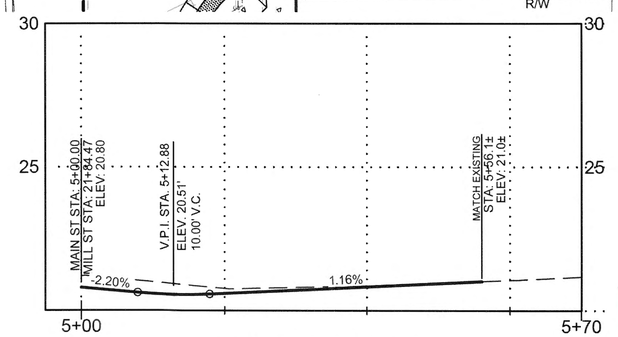
DOCK ST PROFILE





MISSION ST PROFILE





MAIN ST (LT) PROFILE

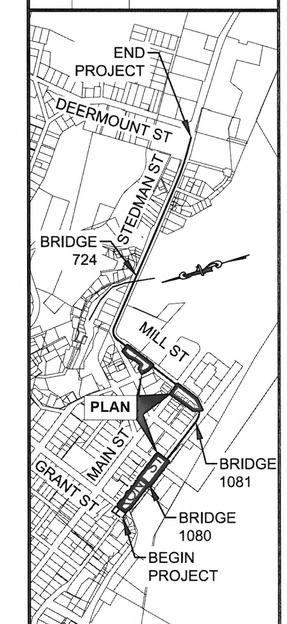
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
8/11/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDE STREET & DRIVEWAY PROFILES

PROJECT DESIGNATION

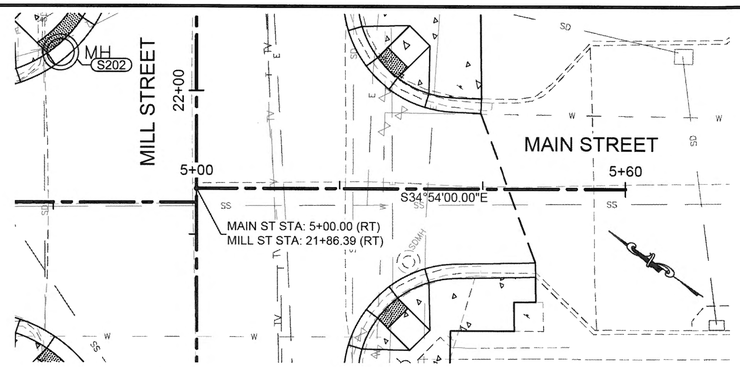
NH-0902(038)

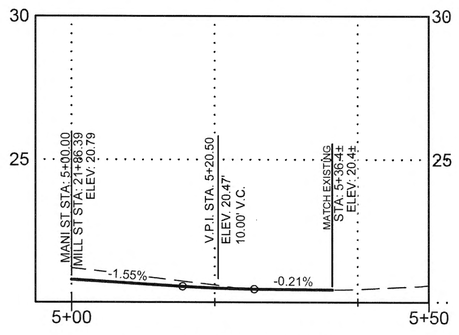
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G29	140

Project Specific Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as [illegible]ected.

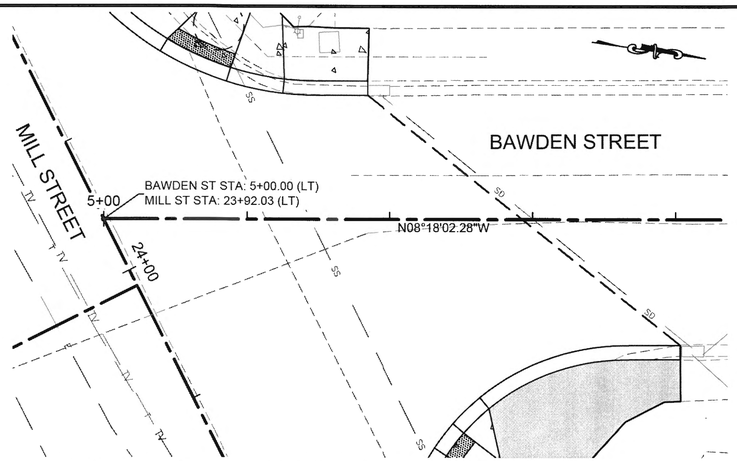
PE [signature] Date 1/27/20

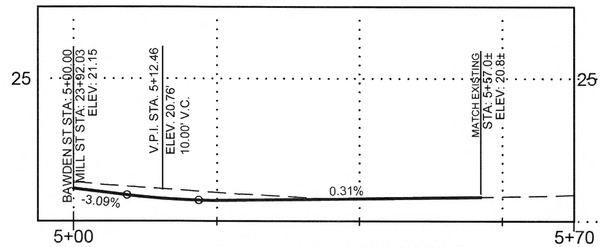
PLOTTED: 8/11/2017 6:28 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS_DRIVEWAYS_SIDESTREETS.DWG



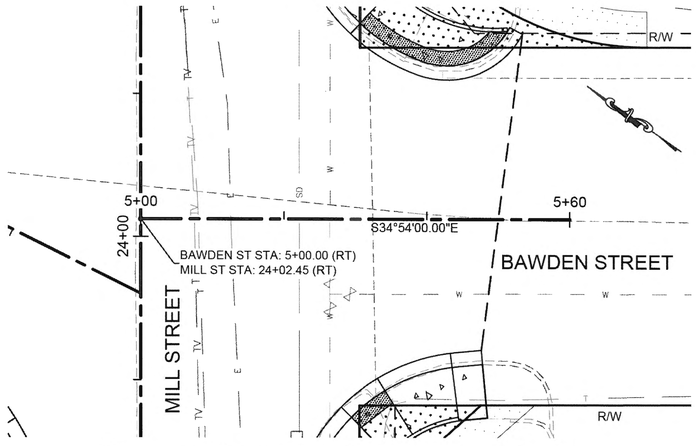


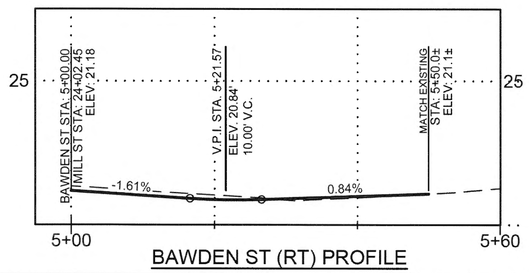
MAIN ST (RT) PROFILE



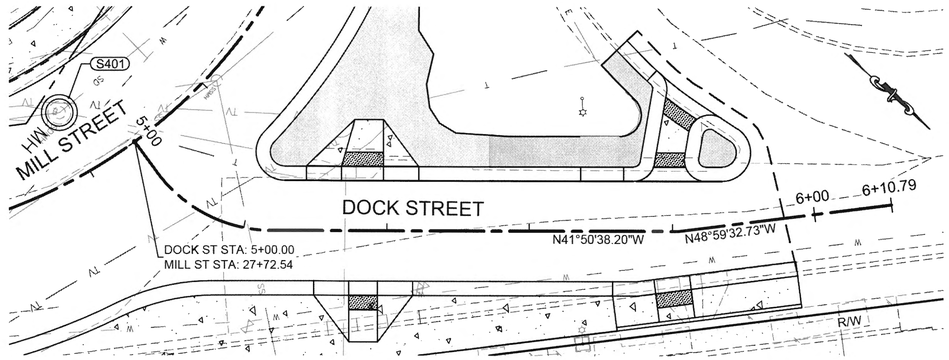


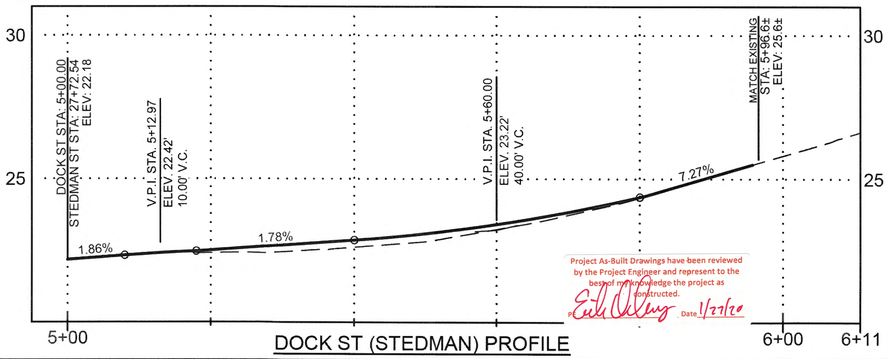
BAWDEN ST (LT) PROFILE





BAWDEN ST (RT) PROFILE





DOCK ST (STEDMAN) PROFILE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: Date 1/27/20

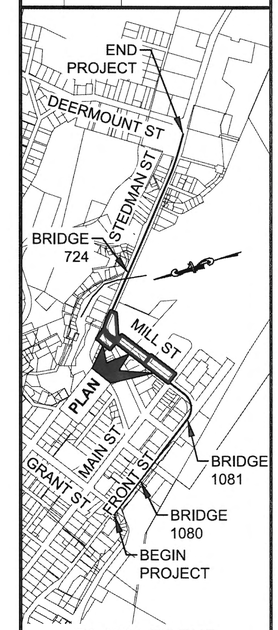
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

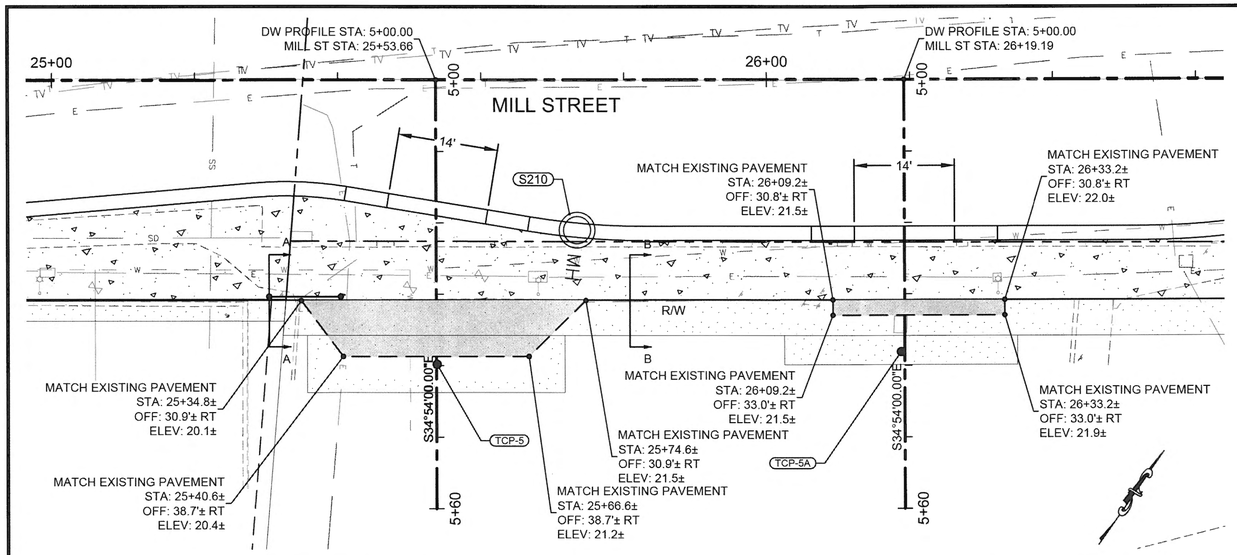
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

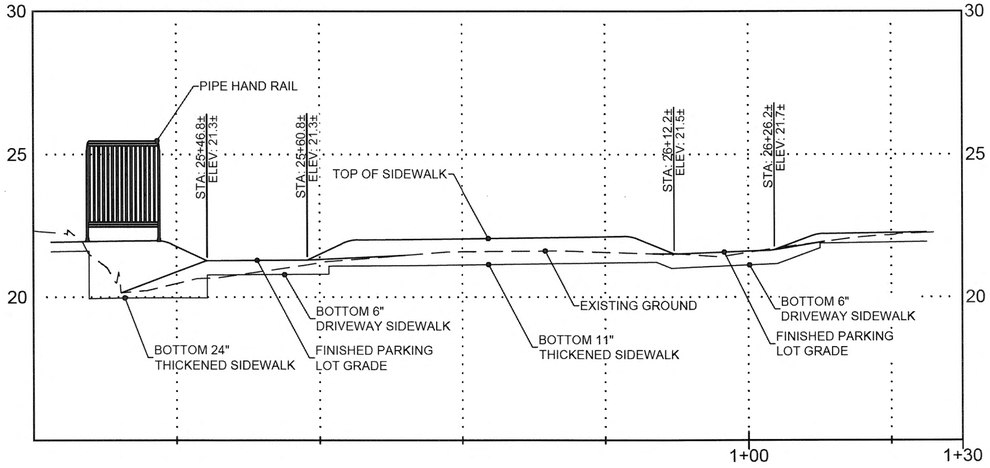
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDE STREET & DRIVEWAY PROFILES

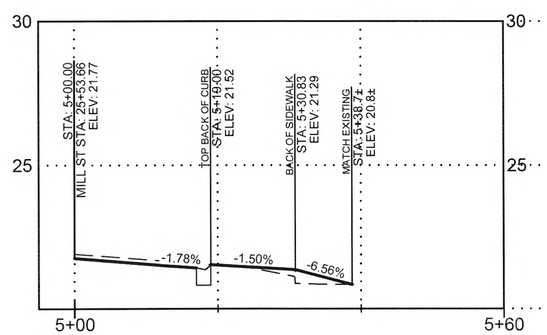
PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G30	140

PLOTTED: 8/11/2017 6:29 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-G-SHEETS_DRIVEWAYS_SIDESTREETS.DWG

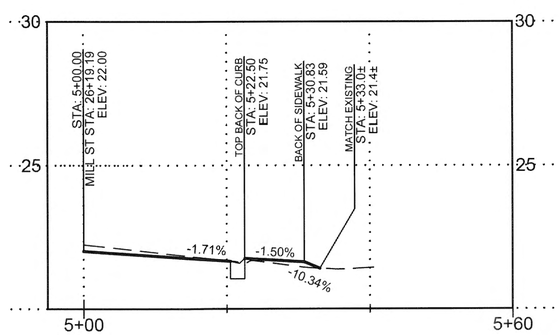




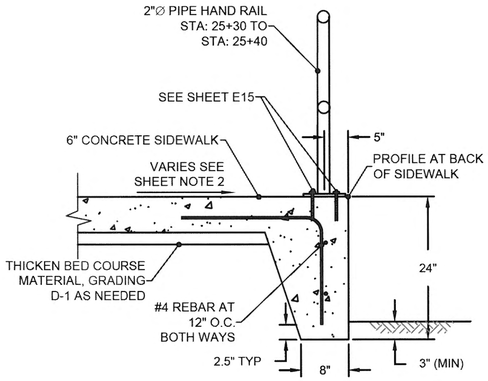
PROFILE AT BACK OF SIDEWALK



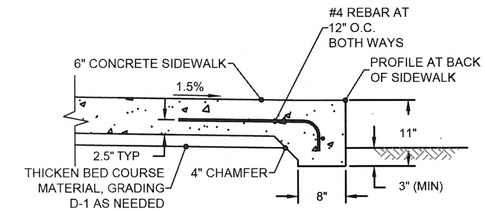
DW 25+56.83 PROFILE



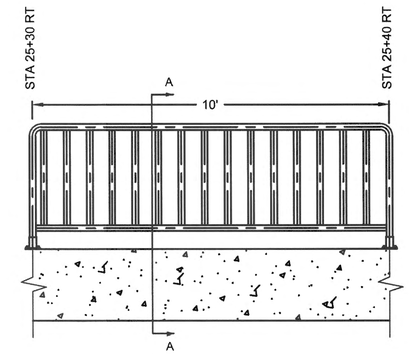
DW 26+19.19 PROFILE



SECTION A-A
24" THICKENED SIDEWALK
STA: 25+30.31 TO STA: 25+46.81



SECTION B-B
11" THICKENED SIDEWALK
STA: 25+63.81 TO STA: 26+09.81



PIPE HAND RAIL DETAIL
REFER TO DETAIL A SHEET E15 FOR ADDITIONAL INFORMATION

SHEET NOTES:
1. REFER TO SHEETS 6-15 FOR EOP PROFILES
2. TRANSITION THE CROSS SLOPE OF THE SIDEWALK FROM 1.5% TO -1.5% BETWEEN STATIONS 25+30 TO 25+40 AND TRANSITION THE CROSS SLOPE OF THE SIDEWALK FROM -1.5% TO 1.5% BETWEEN STATIONS 26+33 TO 26+43.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
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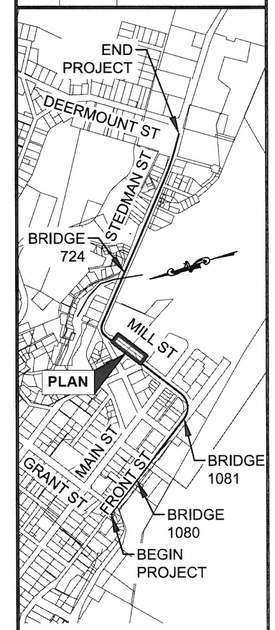
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
1/15/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDE STREET & DRIVEWAY PROFILES

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G31	140

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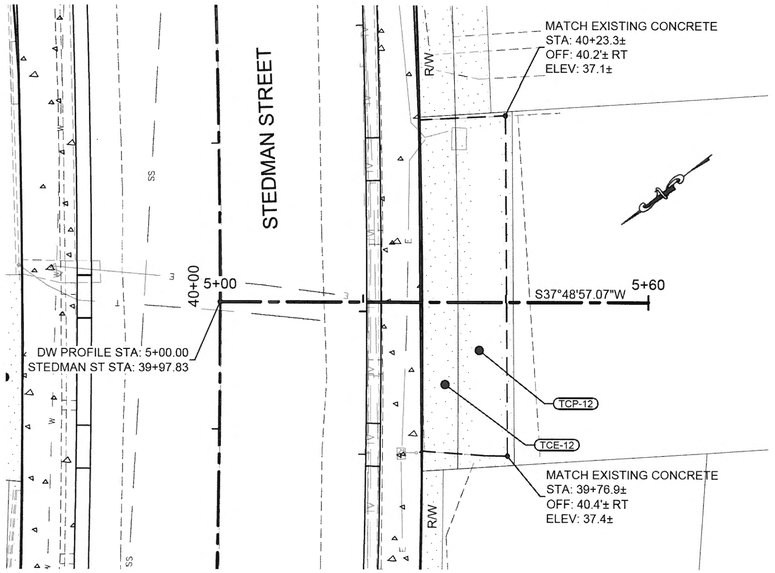
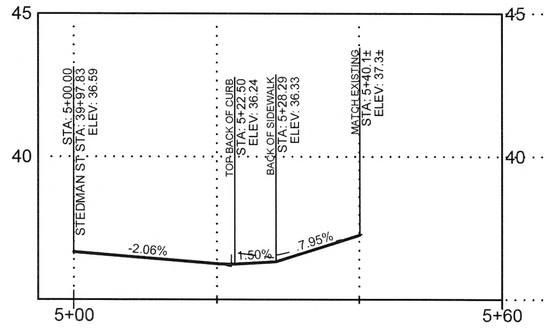
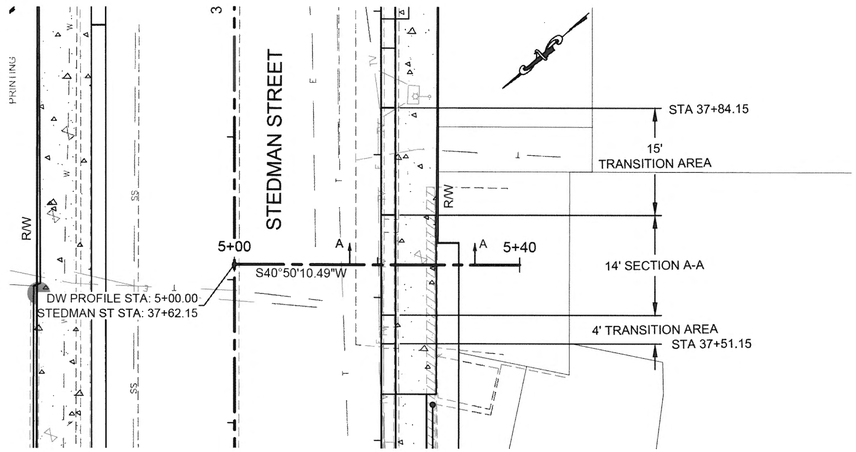
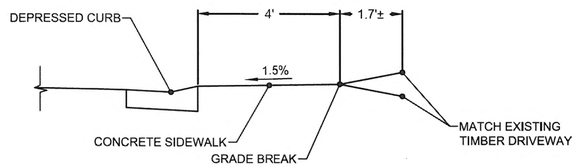




DW 39+97.83 PROFILE





SECTION A-A
DW 37+62.15 PROFILE
STA 37+55.15 TO STA 37+69.15

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

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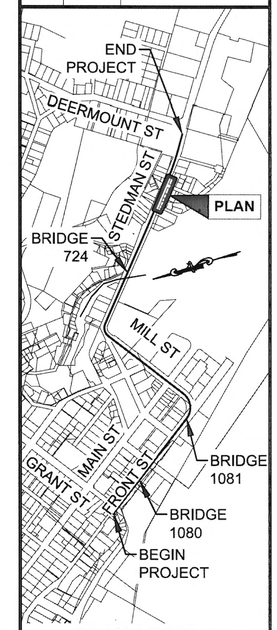

PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIDE STREET & DRIVEWAY PROFILES

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
G32	140

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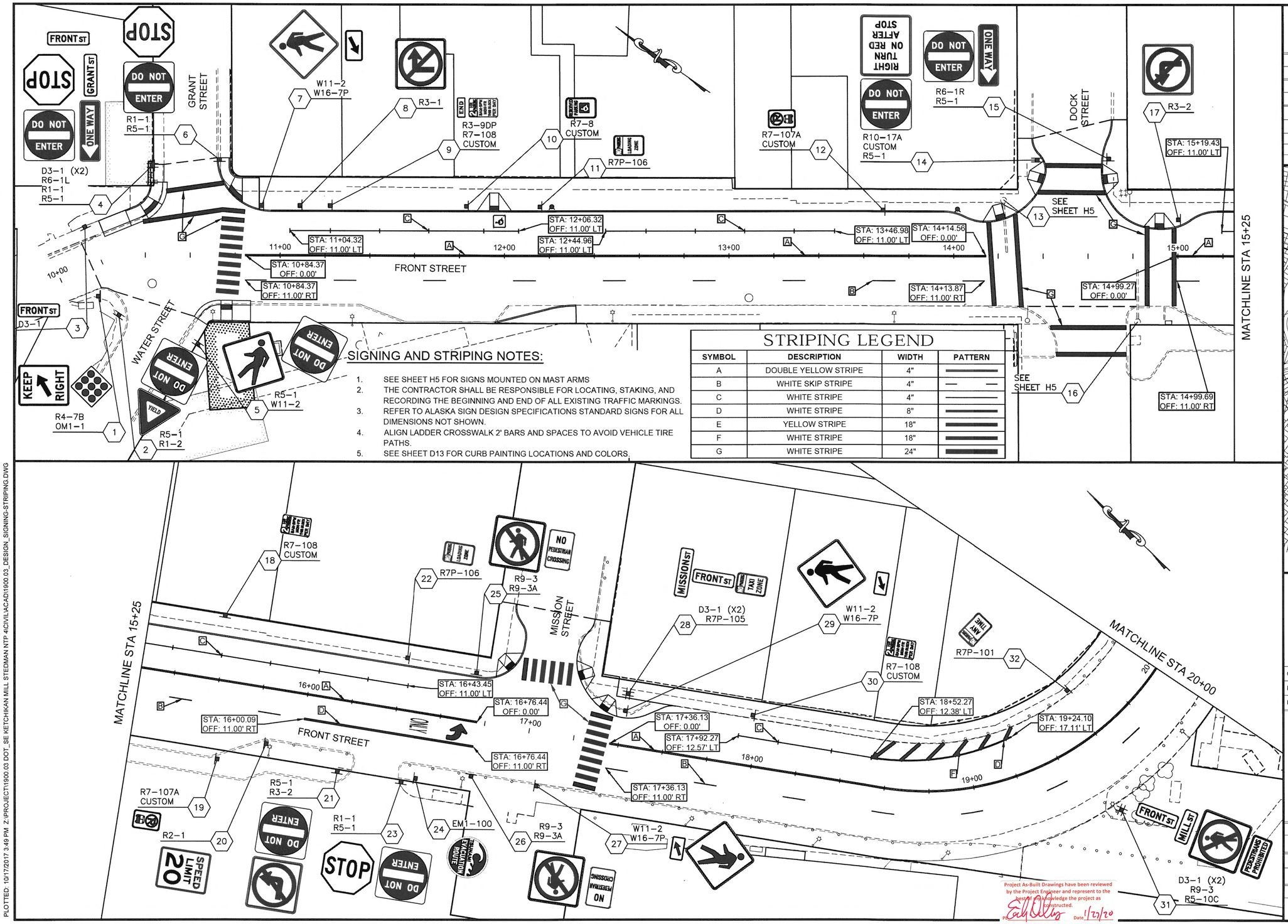
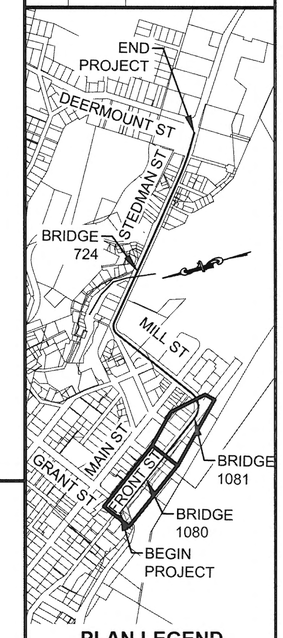


SIGNING AND STRIPING NOTES:

1. SEE SHEET H5 FOR SIGNS MOUNTED ON MAST ARMS
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, STAKING, AND RECORDING THE BEGINNING AND END OF ALL EXISTING TRAFFIC MARKINGS.
3. REFER TO ALASKA SIGN DESIGN SPECIFICATIONS STANDARD SIGNS FOR ALL DIMENSIONS NOT SHOWN.
4. ALIGN LADDER CROSSWALK 2' BARS AND SPACES TO AVOID VEHICLE TIRE PATHS.
5. SEE SHEET D13 FOR CURB PAINTING LOCATIONS AND COLORS.

STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN
A	DOUBLE YELLOW STRIPE	4"	
B	WHITE SKIP STRIPE	4"	
C	WHITE STRIPE	4"	
D	WHITE STRIPE	8"	
E	YELLOW STRIPE	18"	
F	WHITE STRIPE	18"	
G	WHITE STRIPE	24"	



PLAN LEGEND

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

SIGNING & STRIPING PLAN

STA 10+00 TO STA 20+00

PROJECT DESIGNATION

NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
H1	140

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/22/20

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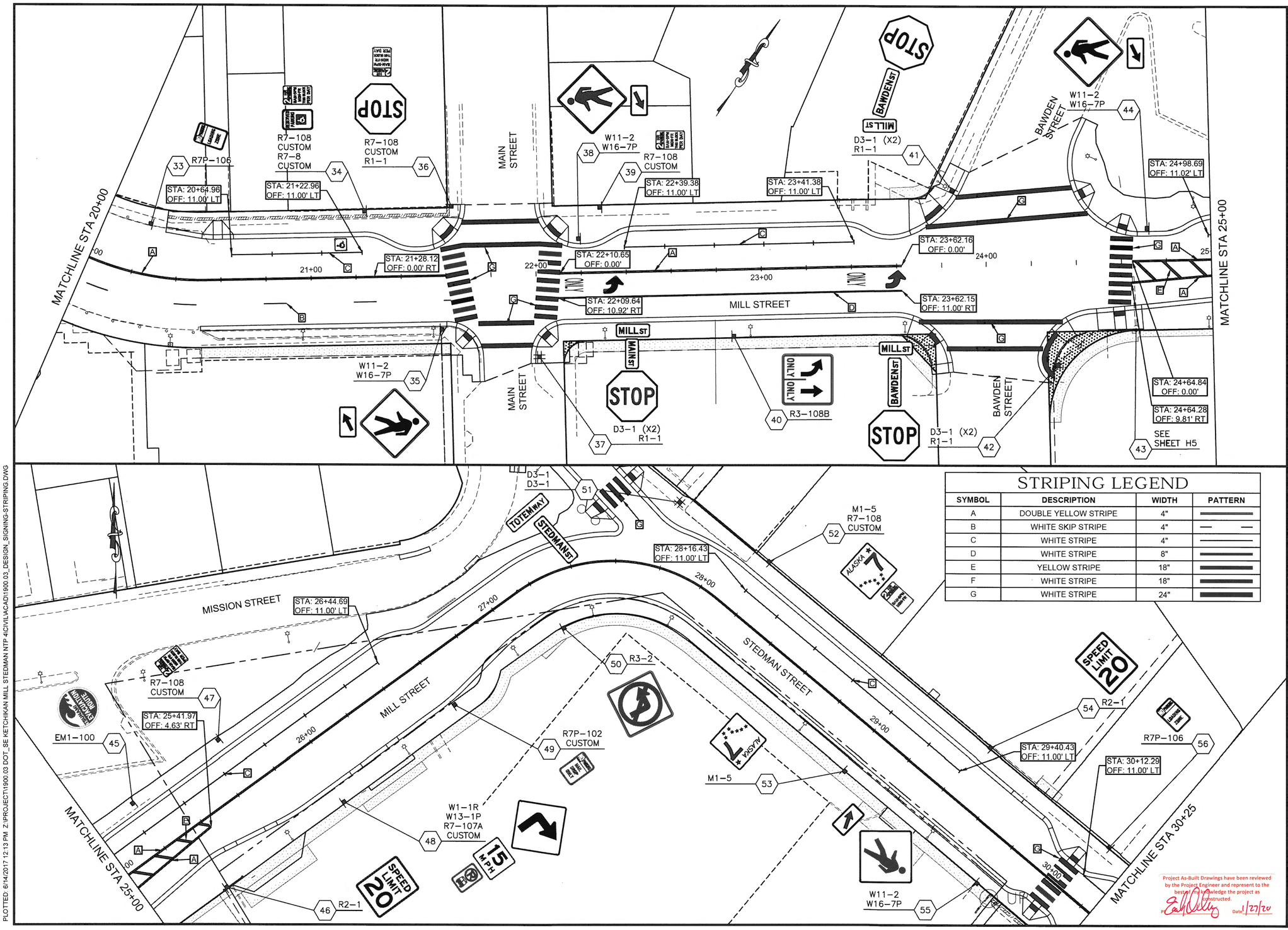

STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN
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B	WHITE SKIP STRIPE	4"	
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F	WHITE STRIPE	18"	
G	WHITE STRIPE	24"	

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ADDENDUM NUMBER

ATTACHMENT NUMBER

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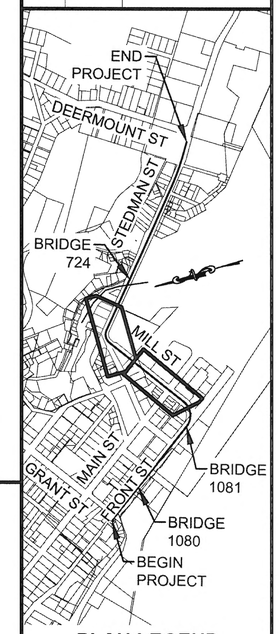


PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

SIGNING & STRIPING PLAN

STA 20+00 TO STA 30+25

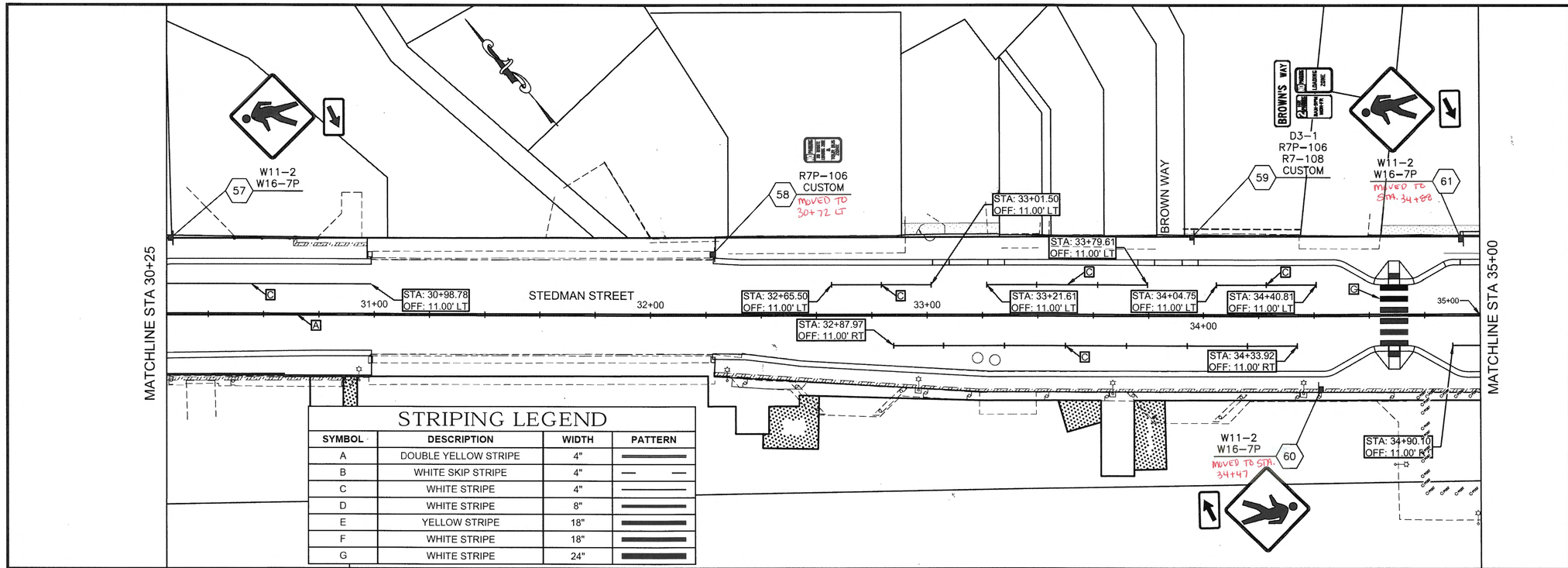
PROJECT DESIGNATION

NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
H2	140

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: Date: 1/27/20

PLOTTED: 6/14/2017 12:13 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03_DESIGN_SIGNING-STRIPING.DWG



STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN
A	DOUBLE YELLOW STRIPE	4"	
B	WHITE SKIP STRIPE	4"	
C	WHITE STRIPE	4"	
D	WHITE STRIPE	8"	
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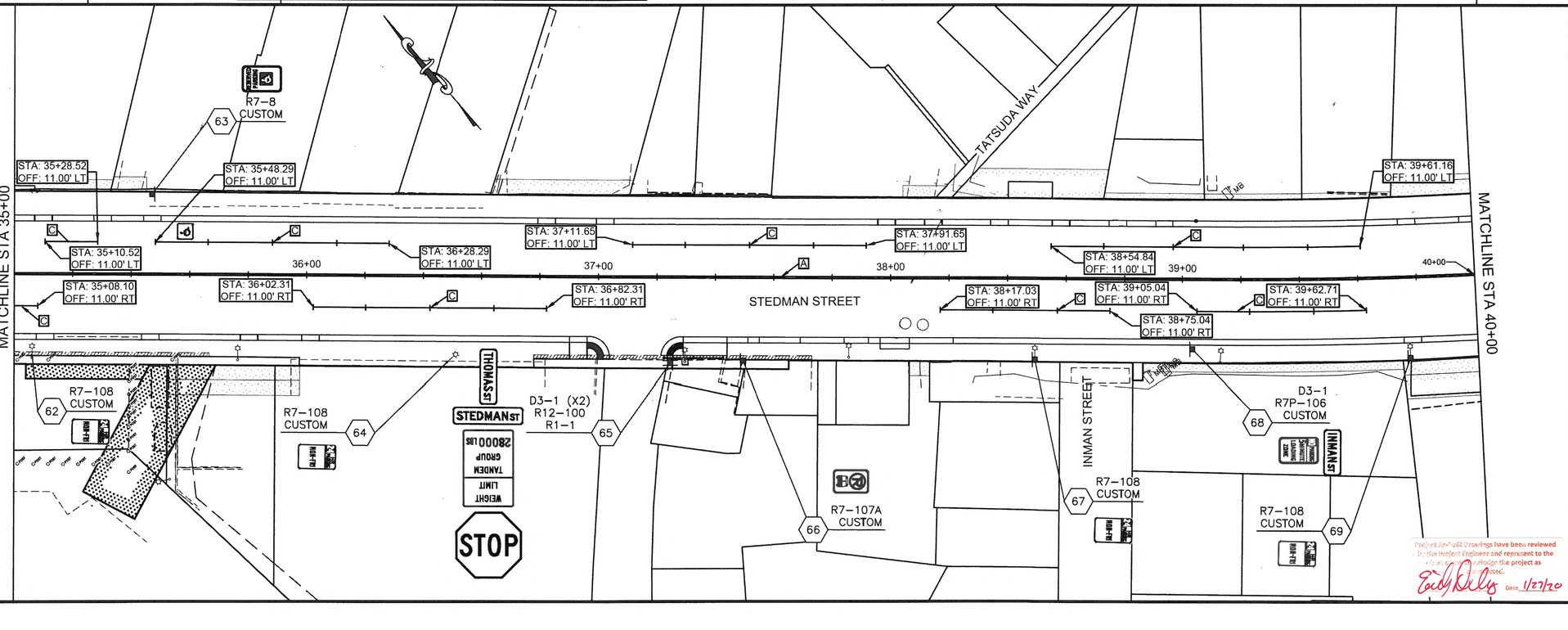
F	WHITE STRIPE	18"	
G	WHITE STRIPE	24"	



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of their knowledge the project as constructed.
Date 1/27/20

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9101 Vanguard Drive
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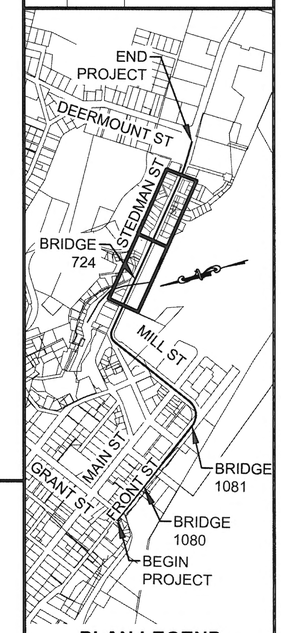


PLAN LEGEND

STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

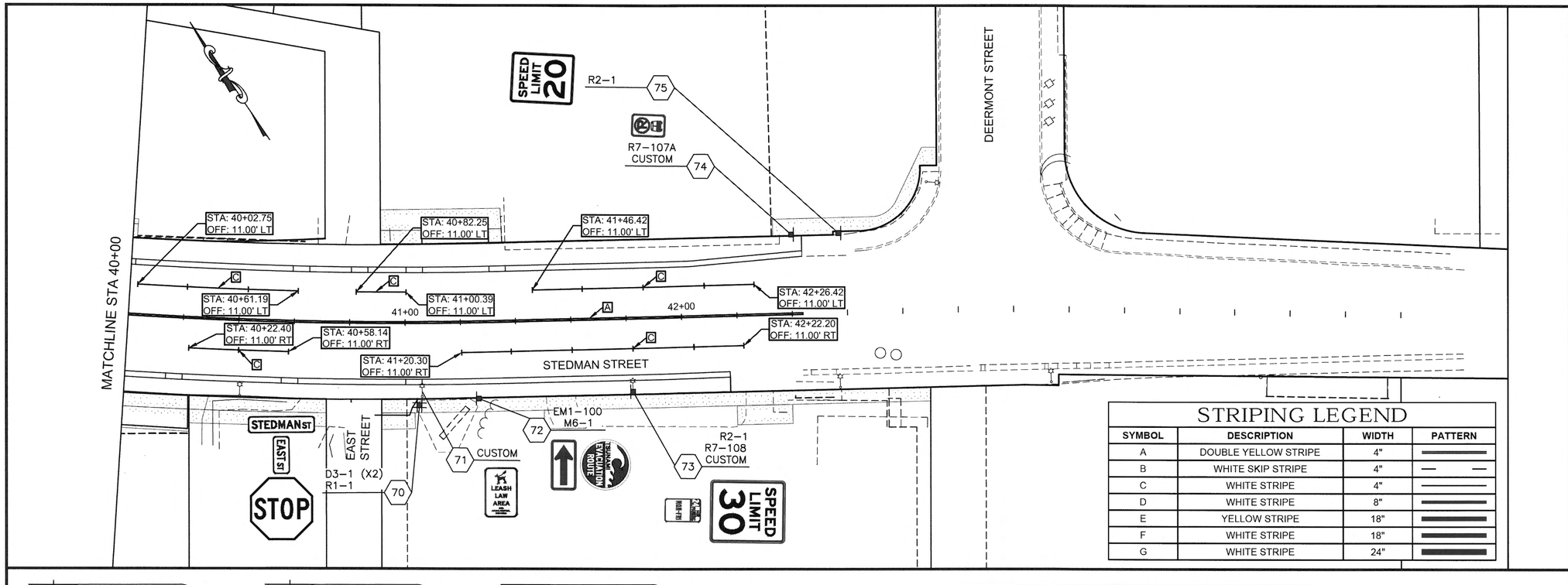
SIGNING & STRIPING PLAN

STA 30+25 TO STA 40+00

PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
H3	140

PLOTTED: 6/14/2017 12:14 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03_DESIGN_SIGNING-STRIPING.DWG



STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN
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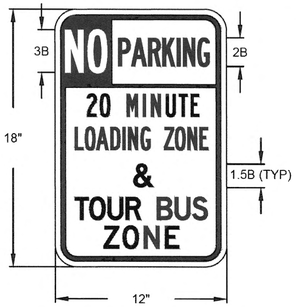
B	WHITE SKIP STRIPE	4"	
C	WHITE STRIPE	4"	
D	WHITE STRIPE	8"	
E	YELLOW STRIPE	18"	
F	WHITE STRIPE	18"	
G	WHITE STRIPE	24"	



R7P-102 CUSTOM



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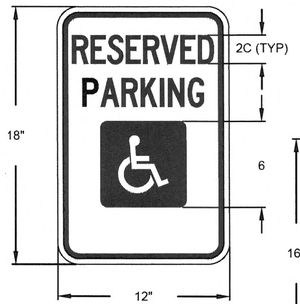

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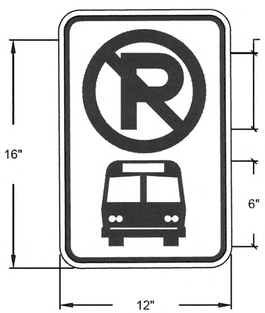
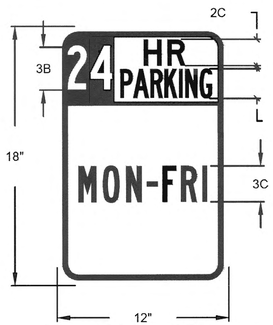
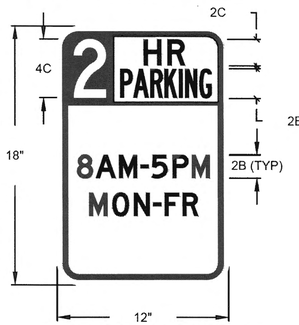


R7-107a CUSTOM



R7-108 CUSTOM



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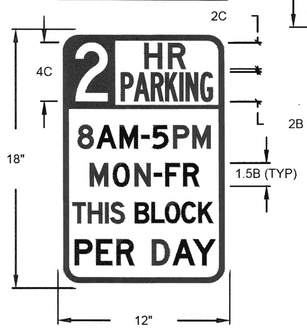

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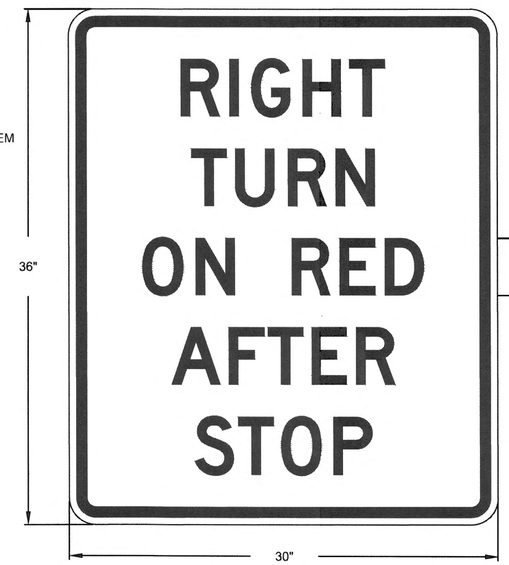
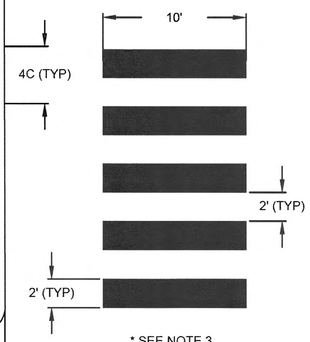


R10-17a CUSTOM



* SEE NOTE 3

LADDER CROSSWALK DETAIL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

Date 1/27/20

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ADDENDUM NUMBER

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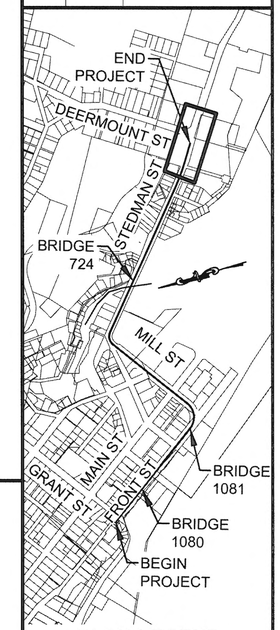
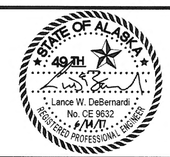


PLAN LEGEND



CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

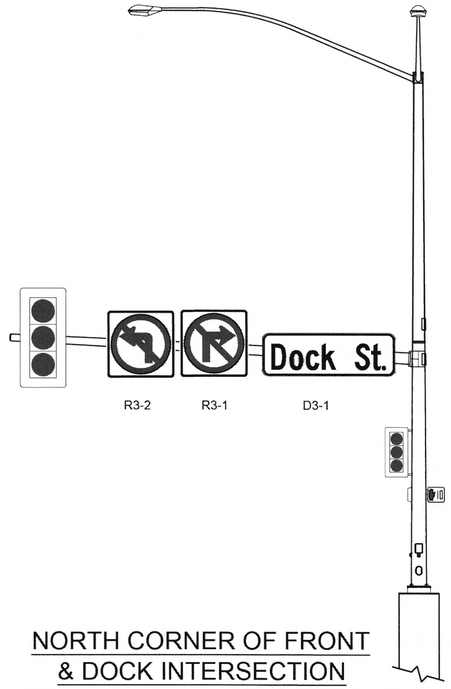
SIGNING & STRIPING PLAN

STA 40+00 TO STA 43+50

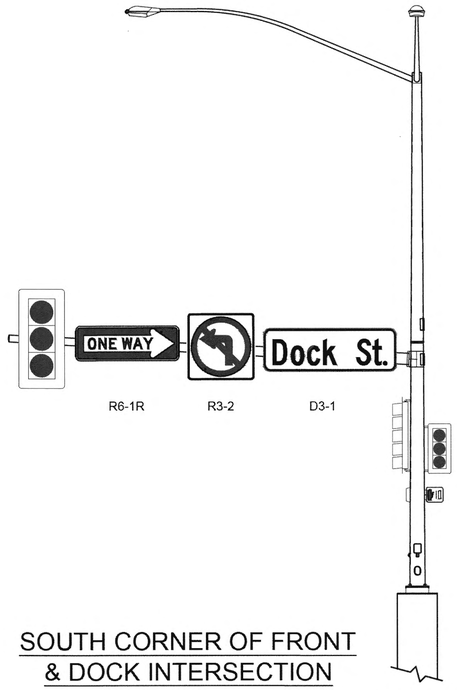
PROJECT DESIGNATION
NH-0902(038)

STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
H4	140

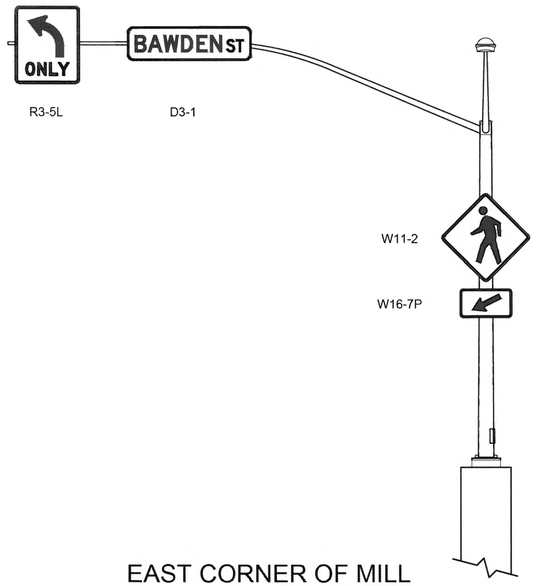
PLOTTED: 6/14/2017 12:14 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03_DESIGN_SIGNING-STRIPING.DWG



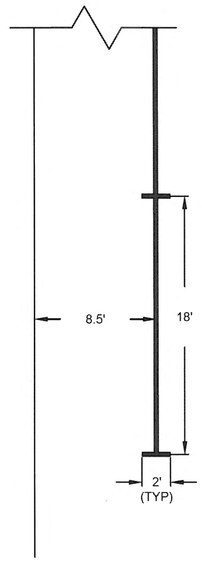
NORTH CORNER OF FRONT & DOCK INTERSECTION



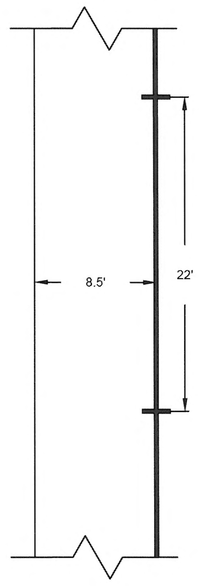
SOUTH CORNER OF FRONT & DOCK INTERSECTION



EAST CORNER OF MILL & BAWDEN INTERSECTION

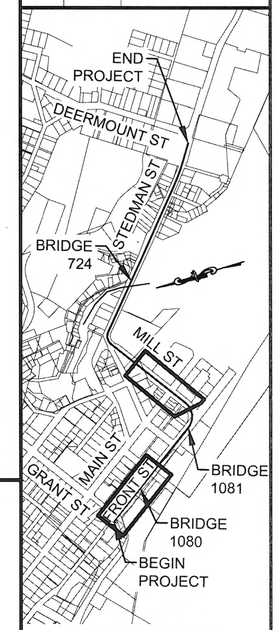


END SPOT, ON-STREET PARKING DIMENSIONS



CENTER SPOT, ON-STREET PARKING DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20



PLAN LEGEND

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

STATE OF ALASKA 49TH
Lance W. DeBernardi
No. CE 9632
6/14/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

SIGNING & STRIPING PLAN

STA 40+00 TO STA 43+50

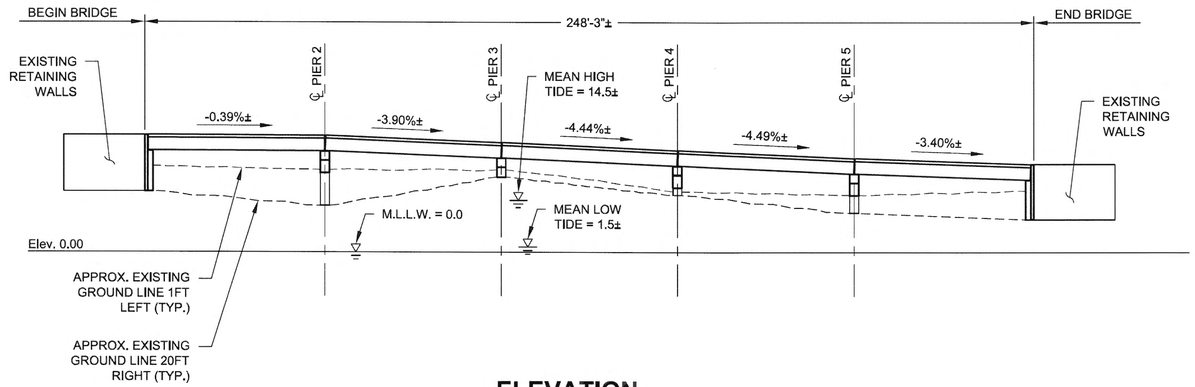
PROJECT DESIGNATION

NH-0902(038)

STATE	YEAR
ALASKA	**2017**
SHEET NUMBER	TOTAL SHEETS
H5	**140**

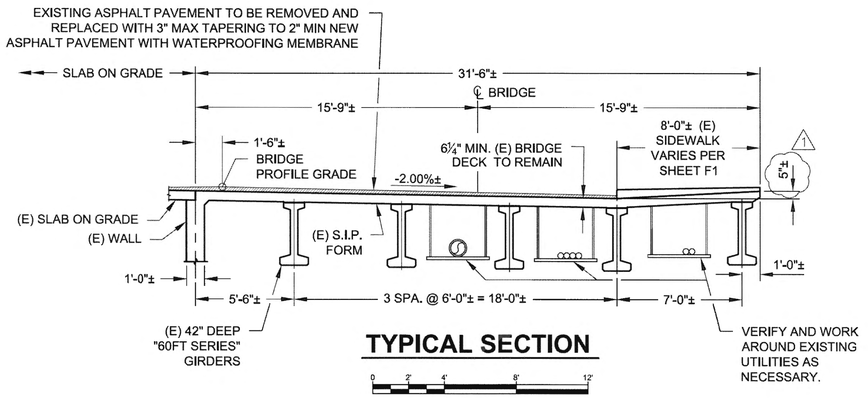
PLOTTED: 6/14/2017 12:14 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03_DESIGN_SIGNING-STRIPING.DWG

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N1	N18



ELEVATION

0 20' 40'

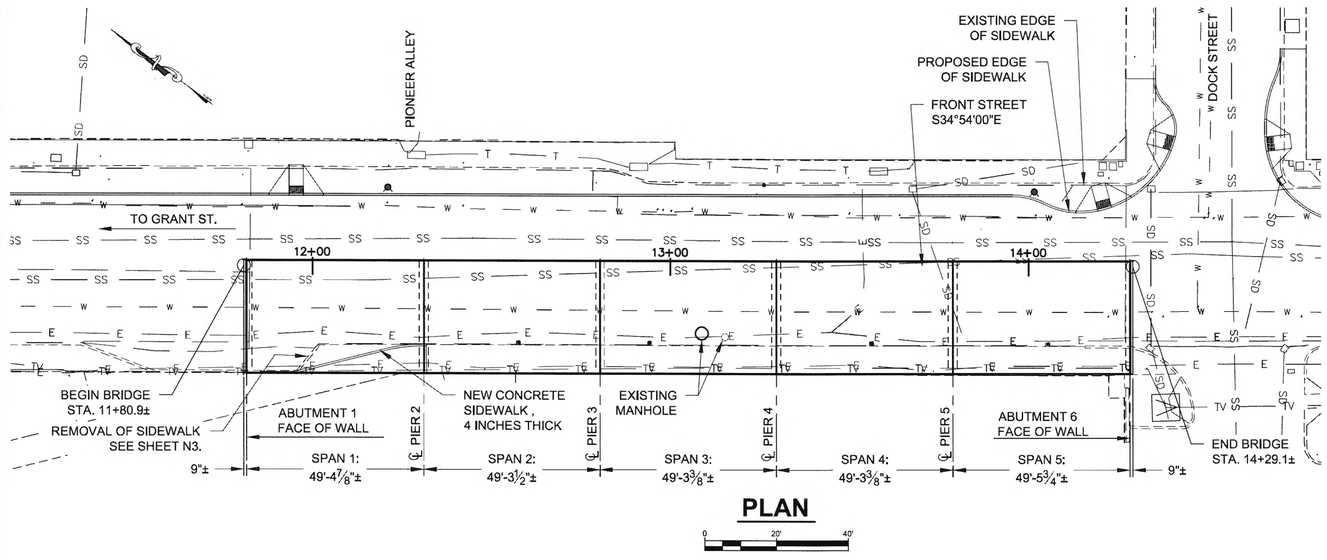


TYPICAL SECTION

0 2" 4" 8" 12"

DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
GENERAL NOTES	2
REPAIR PLAN	3
REPAIR DETAILS 1 OF 2	4
REPAIR DETAILS 2 OF 2	5



PLAN

0 20' 40'

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	11/8/17	JLP	PLUS/MINUS SYMBOL

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer	LAYOUT BY: Joshua Pruitt	CHECKED BY: David Shearer
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer	SPECIFICATIONS BY: J. Pruitt	P S & E COMPARED:
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer	APPROVAL RECOMMENDED BY:	

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

STATE OF ALASKA
DAVID R. SHEARER
CE 8373
11/8/17
Registered Professional Engineer

ELEVATIONS, BEARINGS, AND DIMENSIONS ARE BASED ON AS-BUILT PLANS. VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Ed Ellis Date 1/27/20

FRONT STREET VIADUCT

FRONT STREET

GENERAL LAYOUT

BRIDGE NO. 1080

DWG. NO. 1

\\SHEARERSERVER\Jobs\0217 Mill St Overlay\DWG\0217 Bridge Layout-N1 GENERAL LAYOUT Wed, Nov/08/17 12:39pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N2	N18

GENERAL NOTES

DESIGN..... AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, 2002.

LIVE LOAD..... HS-20

DEAD LOAD..... INCLUDES 35 PSF FOR ALL WEARING SURFACES

CONCRETE..... CLASS A CONCRETE UNLESS OTHERWISE NOTED. f'c = 4 KSI

EXISTING STATIONS, ELEVATIONS, AND DIMENSIONS ARE BASED ON AS-BUILT PLANS AND THEREFORE MAY NOT REFLECT EXISTING CONDITIONS ENCOUNTERED IN THE FIELD. WHERE DIMENSIONS OF THE PROPOSED WORK DEPEND ON THE EXISTING BRIDGE DIMENSIONS, FIELD VERIFY THE CONTROLLING DIMENSIONS AND ADJUST PROPOSED DIMENSIONS TO FIT EXISTING CONDITIONS.

BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL
202(3)	REMOVAL OF SIDEWALK	SY	SY	---	31	31
501(9A)	CRACK REPAIR BRIDGE NO. 1080	LF	LF	6	3	9
501(16A)	SPALL REPAIR BRIDGE NO. 1080	SF	SF	---	31	31
508(1A)	WATERPROOFING MEMBRANE BRIDGE NO. 1080	LS	SY	---	667	667
510(102A)	BRIDGE DECK REPAIRS BRIDGE NO. 1080	CS	SF	---	290	290
516(1A)	EXPANSION JOINT (HEADER & SILICONE) BRIDGE NO. 1080	LF	LF	---	192	192
586(1)	MANHOLE PLUG	EA	EA	---	2	2
608(1A)	CONCRETE SIDEWALK, 4 INCHES THICK	SY	SY	---	18	18

ABBREVIATIONS

℄	= CENTERLINE
PL	= PLATE
&	= AND
@	= AT
Ø	= DIAMETER
±	= APPROXIMATE
APPROX.	= APPROXIMATE
ABUT.	= ABUTMENT
BOT.	= BOTTOM
BR.	= BRIDGE
BTWN.	= BETWEEN
BRG.	= BEARINGS
C.I.P.	= CAST IN PLACE
CLR.	= CLEAR, CLEARANCE
COL.	= COLUMN
C.J.	= CONSTRUCTION JOINT
CLSM	= CONTROLLED LOW-STRENGTH MATERIAL
CS	= CONTINGENT SUM
CY	= CUBIC YARD
DIA	= DIAMETER
DWG.	= DRAWING
(E)	= EXISTING
EA	= EACH
ELEV.	= ELEVATION
E.K.	= EACH FACE
E.W.	= EACH WAY
F.F.	= FAR FACE
FT	= FEET
FTG.	= FOOTING
GALV.	= GALVANIZE, GALVANIZED
HWY.	= HIGHWAY
H.S.	= HIGH STRENGTH
KIP	= 1,000 LB.
LB	= POUND
LF	= LINEAR FOOT
LS	= LUMP SUM
LT.	= LEFT
MAX.	= MAXIMUM
MIN.	= MINIMUM
N.A.	= NOT APPLICABLE
N.I.C.	= NOT IN CONTRACT
N.C.	= NOT CALCULATED
N.F.	= NEAR FACE
NO.	= NUMBER
O.H.W.	= ORDINARY HIGH WATER
PSF	= POUNDS PER SQUARE FOOT
PVC	= POINT OF VERTICAL CURVE
PVI	= POINT OF VERTICAL INTERSECTION
PVT	= POINT OF VERTICAL TANGENT
RT.	= RIGHT
SCH.	= SCHEDULE
SF	= SQUARE FOOT
S.I.P.	= STAY IN PLACE
SPA.	= SPACE, SPACES
STA.	= STATION
STR.	= STRAIGHT
SUBST.	= SUBSTRUCTURE
SUPERST.	= SUPERSTRUCTURE
SY	= SQUARE YARD
SYMM.	= SYMMETRIC
TYP.	= TYPICAL

Preliminary Front Street Viaduct Bridge Plans have been reviewed for use. Per Section 2 I have and represent to the best of my knowledge this project as presented.
Date 1/27/20

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer

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

STATE OF ALASKA
DAVID R. SHEARER
CE 8373
6/2/17
Registered Professional Engineer

FRONT STREET VIADUCT

FRONT STREET

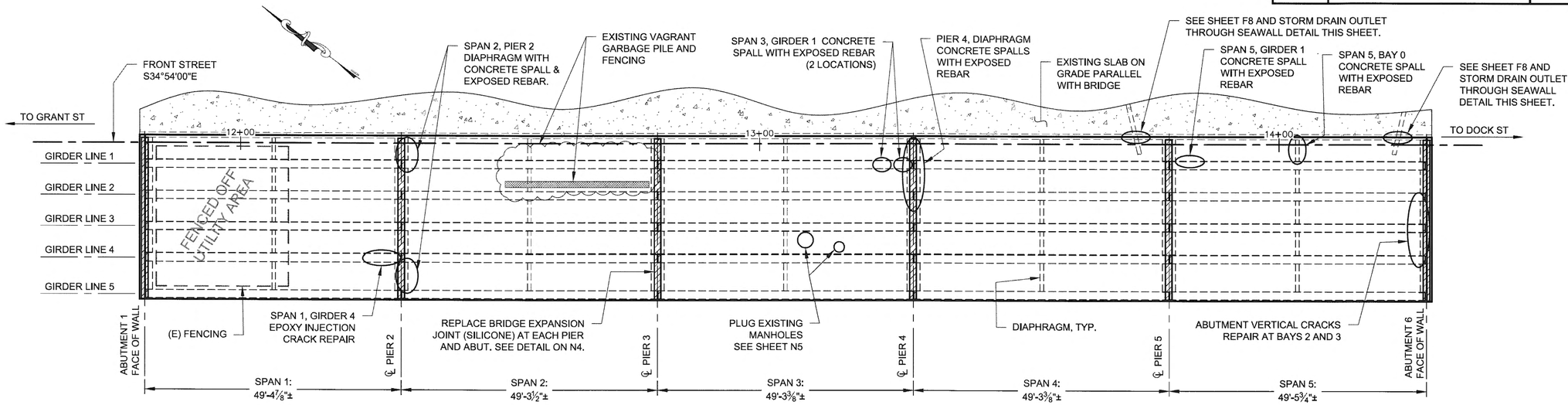
GENERAL NOTES

BRIDGE NO. 1080

DWG. NO. 2

Jun 02, 2017 - 12:35pm jpruitt \\shearerserver\jobs\0217 mill st overlay\DWG\0217 General Notes.dwg Layout Name: N2 GENERAL NOTES
\\shearerserver\jobs\0217 mill st overlay\DWG\0217 General Notes-N2 GENERAL NOTES Fri, Jun/02/17 12:35pm

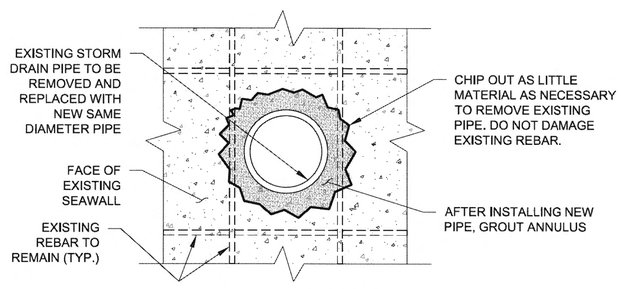
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N3	N18



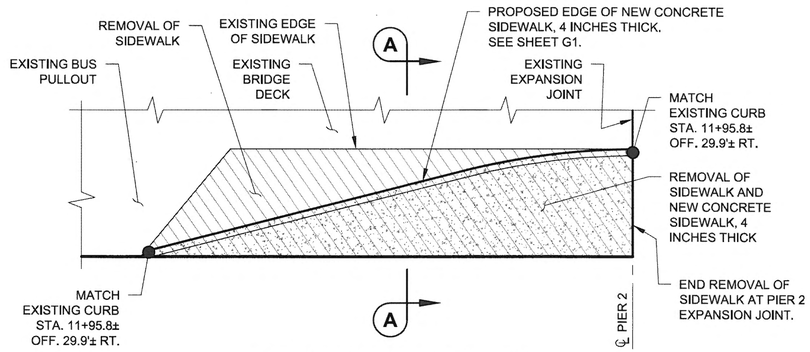
REPAIR PLAN

0 8' 16' 24' 32'

FOR REPAIR DETAILS SEE SHEET N4-N5. WHEN CONCRETE SPALLS ARE INDICATED USE THE APPLICABLE DETAIL BASED ON SEVERITY OF DETERIORATION

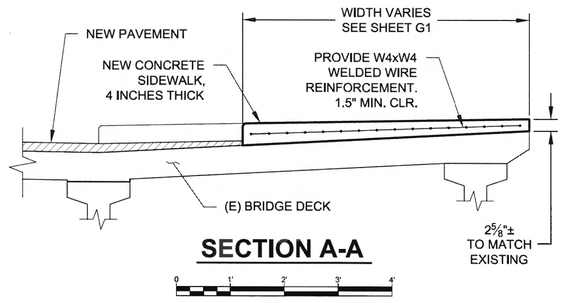


STORM DRAIN OUTLET THROUGH SEAWALL DETAIL



SIDEWALK MODIFICATION FOR BUS PULLOUT TAPER

0 4' 8' 12' 16'



SECTION A-A

0 1' 2' 3' 4'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/22/20

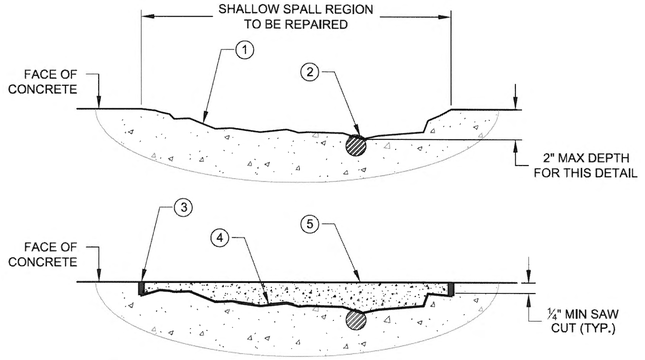
DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975	FRONT STREET VIADUCT FRONT STREET REPAIR PLAN
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer		
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer		

STATE OF ALASKA 49TH DAVID R. SHEARER CE 8373 6/2/17 Registered Professional Engineer

BRIDGE NO. 1080
DWG. NO. 3

Jun 02, 2017 - 12:35pm joshua \\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS.dwg Layout Name: N3 REPAIR PLAN
\\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS-N3 REPAIR PLAN Fri, Jun/02/17 12:35pm

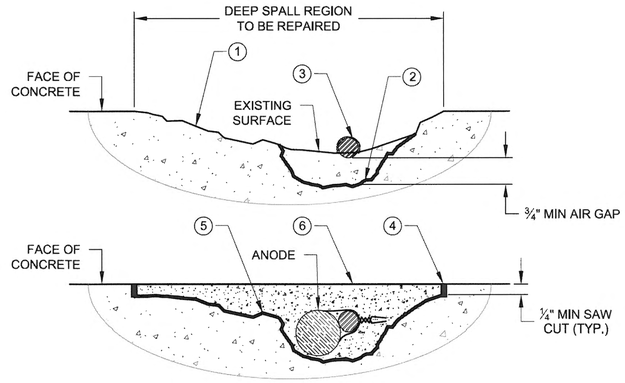
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N4	N18



SHALLOW SPALL REPAIR DETAIL

THIS DETAIL APPLIES TO ALL SPALLS ON PRESTRESSED GIRDERS AND SPALLS IN REINFORCED CONCRETE WHERE LESS THAN 50% OF THE REBAR IS EXPOSED. VERIFY IF POOR COVER BUILDOUT DETAIL IS APPLICABLE.

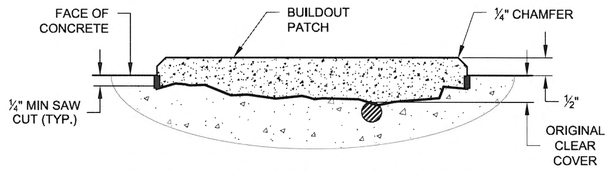
1. LOCATE SPALL AND CLEAN EXISTING CONCRETE IN THE SPALL REGION.
2. REMOVE ALL SURFACE RUST FROM EXPOSED REBAR.
3. SAW CUT A BORDER AROUND AFFLICTED AREA A MINIMUM OF ¼" DEEP AND CHIP OUT ANY AREAS WHICH WOULD CAUSE THE REPAIR TO BE LESS THAN ¼" THICK.
4. APPLY BONDING AGENT TO CLEANED SURFACE.
5. INSTALL PATCHING MATERIAL.



DEEP SPALL REPAIR DETAIL

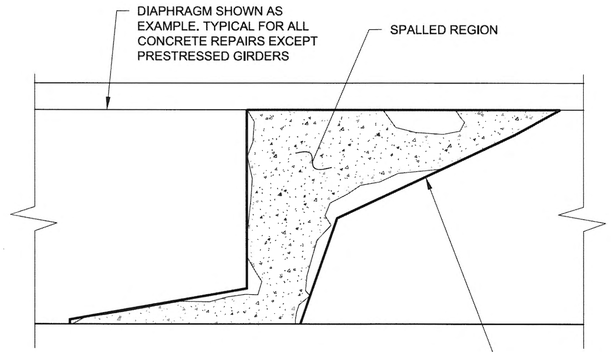
DO NOT APPLY THIS DETAIL TO A PRESTRESSED GIRDER. THIS DETAIL APPLIES TO SPALLS IN REINFORCED CONCRETE WHERE MORE THAN 50% OF THE REBAR IS EXPOSED. VERIFY IF POOR COVER BUILDOUT DETAIL IS APPLICABLE.

1. LOCATE SPALL AND CLEAN EXISTING CONCRETE IN THE SPALL REGION.
2. CHIP OUT CONCRETE AROUND THE REBAR TO FULLY EXPOSE IT AND PROVIDE A MINIMUM ¾" AIR GAP BETWEEN BAR AND CONCRETE FOR THE LENGTH OF SURFACE RUST OR A MINIMUM LENGTH OF 4" .
3. REMOVE ALL SURFACE RUST FROM EXPOSED REBAR AND INSTALL ANODE.
4. SAW CUT A BORDER AROUND AFFLICTED AREA A MINIMUM OF ¼" DEEP AND CHIP OUT ANY AREAS WHICH WOULD CAUSE THE REPAIR TO BE LESS THAN ¼" THICK.
5. APPLY BONDING AGENT TO CLEANED SURFACE.
6. INSTALL PATCHING MATERIAL.



POOR COVER BUILDOUT DETAIL

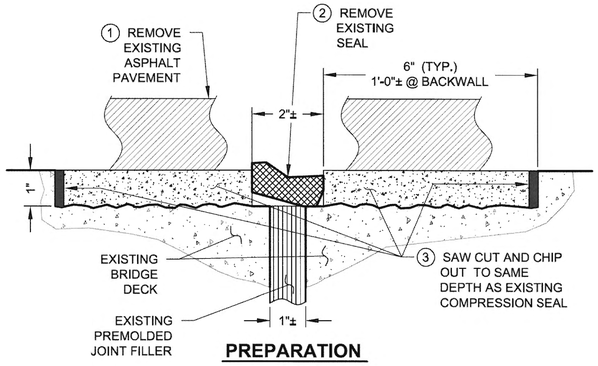
THIS DETAIL APPLIES TO EITHER SHALLOW OR DEEP SPALLS WHERE THE ORIGINAL CLEAR COVER ON THE EXPOSED BAR WAS 1" OR LESS. IN THESE CASES THE PATCH SHALL BE INCREASED IN THICKNESS AS SHOWN.



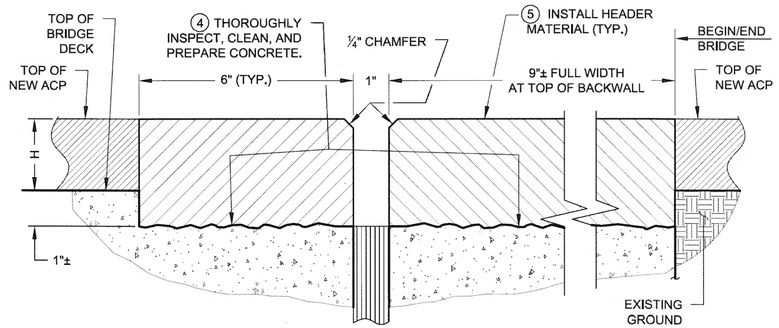
TYPICAL SAWCUTTING DETAIL

REPAIR GENERAL NOTES

- REPAIRS SHALL BE LOCATED PER THE REPAIR PLANS ON SHEETS N3 AND N6. IF DURING CONSTRUCTION OTHER LOCATIONS WITH DEFICIENCIES ARE FOUND THE ENGINEER SHALL BE NOTIFIED.
- MATERIALS NOT DESCRIBED HERE SHALL BE PER THE SPECIFICATIONS.



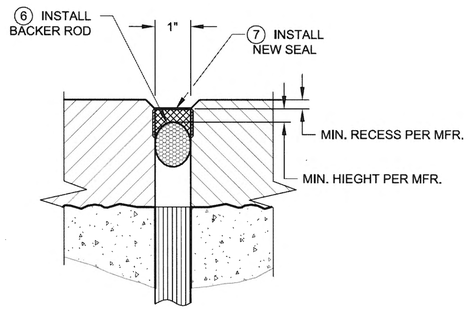
PREPARATION



HEADER PLACEMENT

EXPANSION JOINT REPAIR DETAILS

'H' TO MATCH HEIGHT OF FINAL ACP OVERLAY



SEAL INSTALLATION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer

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

STATE OF ALASKA 49TH
DAVID R. SHEARER
CE 8373
6/8/17
Registered Professional Engineer

FRONT STREET VIADUCT

FRONT STREET

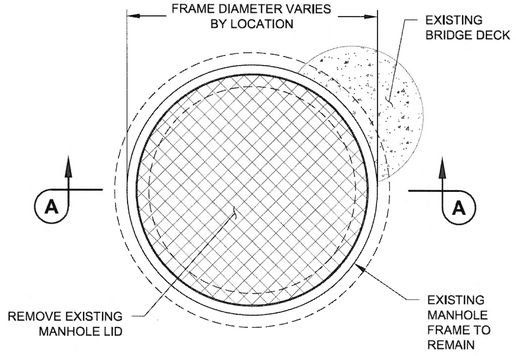
REPAIR DETAILS 1 OF 2

BRIDGE NO. 1080

DWG. NO. 4

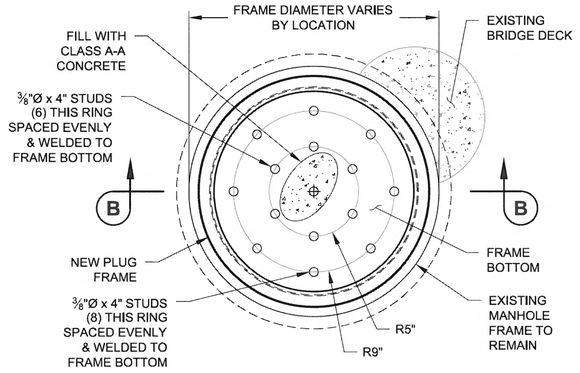
Jun 02, 2017 - 12:35pm joshua \\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS.dwg Layout Name: N4 REPAIR DETAILS 1 OF 2
\\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS-N4 REPAIR DETAILS 1 OF 2 Fri, Jun/02/17 12:35pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N5	N18



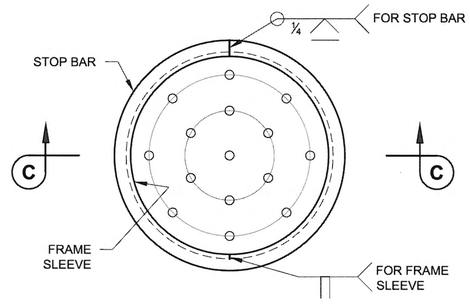
EXISTING MANHOLE PLAN

DIMENSIONS OF EXISTING MANHOLES SHALL BE FIELD VERIFIED.

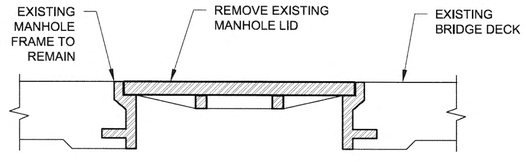


MANHOLE PLUG PLAN

24" MANHOLE SHOWN. FOR 36" USE A THIRD CIRCLE OF 12 STUDS WITH A RADIUS OF 1'-2".

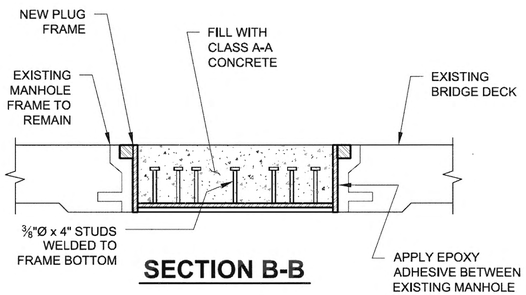


MANHOLE PLUG FRAME DETAIL

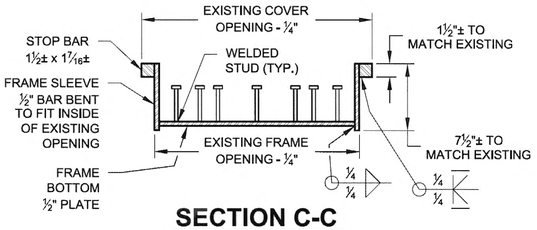


SECTION A-A

GEOMETRY OF EXISTING MANHOLE HARDWARE SHALL BE FIELD VERIFIED AT EACH LOCATION.



SECTION B-B



SECTION C-C

DIMENSIONS OF EXISTING MANHOLES SHALL BE FIELD VERIFIED AND THE PLUG FRAME SHALL BE DETAILED TO BEST FIT ENCOUNTERED CONDITIONS.

GENERAL NOTES

- ALL STEEL SHAPES, BARS, AND PLATES SHALL MEET THE REQUIREMENTS OF ASTM A36.
- WELDING SHALL BE PER AWS D1.1 AND USE E70XX ELECTRODE.
- AFTER FABRICATION ALL STEEL SHALL BE HOT-DIP GALVANIZED PER ASTM A123

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 11/27/20

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer		
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer		
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer		

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

STATE OF ALASKA · DAVID R. SHEARER · CE 8373 · 6/2/17 · Registered Professional Engineer

FRONT STREET VIADUCT

FRONT STREET

REPAIR DETAILS 2 OF 2

BRIDGE NO. 1080

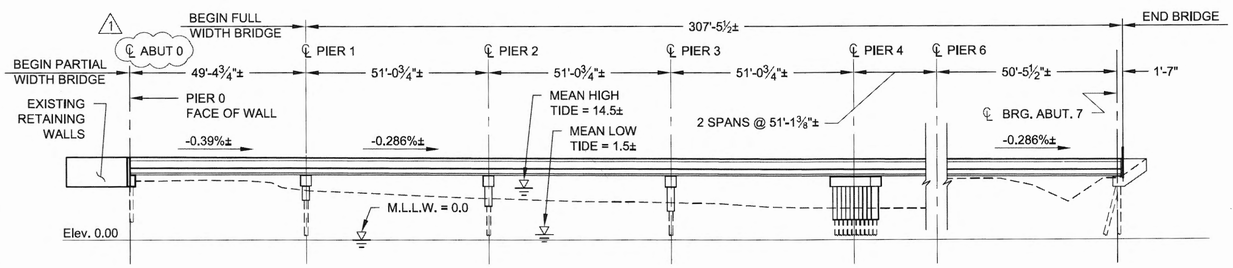
DWG. NO. 5

Jun 02, 2017 - 12:35pm joshua \\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS.dwg Layout Name: N5 REPAIR DETAILS 2 OF 2 Fri, Jun/02/17 12:35pm
\\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS-N5 REPAIR DETAILS 2 OF 2 Fri, Jun/02/17 12:35pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N6	N18

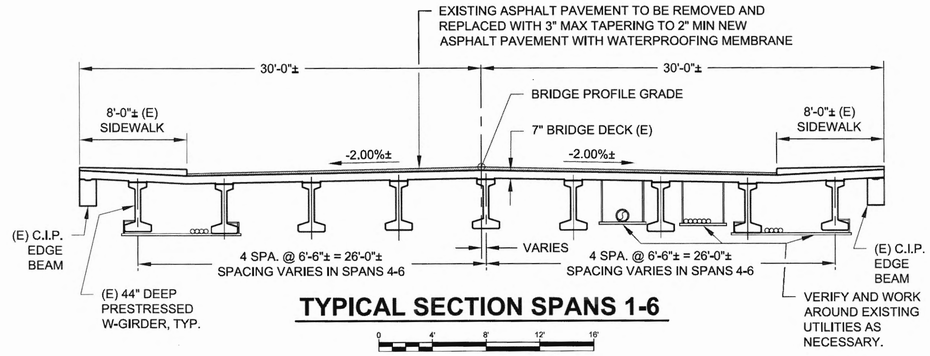
HORIZONTAL CURVE DATA

P.I. STATION	Δ	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.
19+82.70	90°00'00"	124.00 FT	124.00 FT	194.78 FT	S34°54'00"



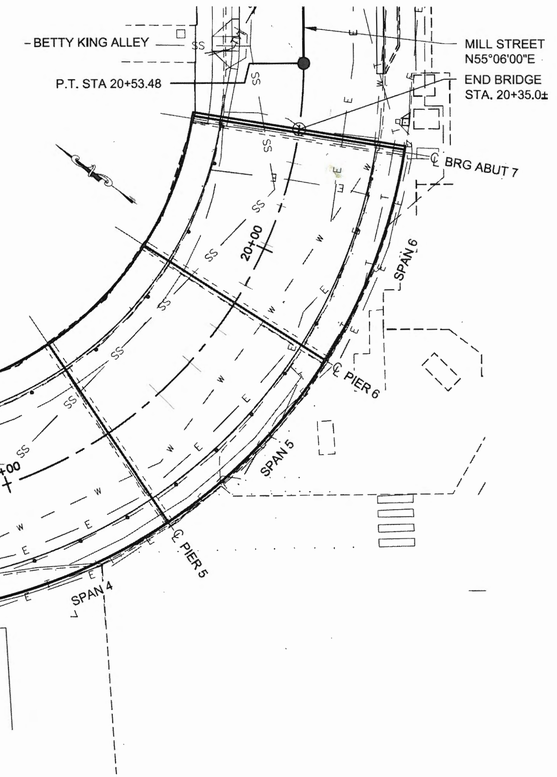
PARTIAL ELEVATION

0 20' 40'



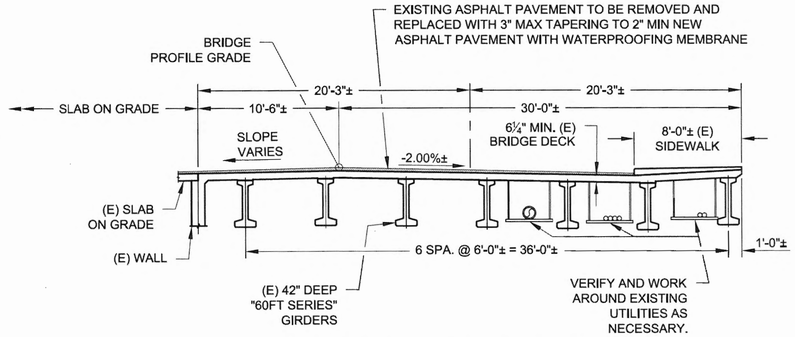
TYPICAL SECTION SPANS 1-6

0 4' 8' 12' 16'



PLAN

0 20' 40'



TYPICAL SECTION SPAN 0

0 4' 8' 12' 16'

DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
GENERAL NOTES	2
REPAIR PLAN	3
REPAIR DETAILS 1 OF 2	4
REPAIR DETAILS 2 OF 2	5
DECK DRAIN MODIFICATION	6
SEAWALL UNDERMINING REPAIR	7

ELEVATIONS, BEARINGS, AND DIMENSIONS ARE BASED ON AS-BUILT PLANS. VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE _____ Date 11/27/18

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	11/8/17	JLP	ABUT 0 LABEL

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer	LAYOUT BY: Joshua Pruitt	CHECKED BY: David Shearer
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer	SPECIFICATIONS BY: J. Pruitt	P S & E COMPARED:
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer	APPROVAL RECOMMENDED BY:	

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

STATE OF ALASKA — DAVID R. SHEARER — CE 8373 — 11/8/17 — Registered Professional Engineer

FRONT & MILL STREET VIADUCT

FRONT-MILL STREETS

GENERAL LAYOUT

BRIDGE NO. 1081

DWG. NO. 1

\\SHEARERSERVER\Jobs\0217 Mill St Overlay\DWG\0217 Bridge Layout-N6 GENERAL LAYOUT Wed, Nov/08/17 12:43pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N7	N18

GENERAL NOTES

DESIGN..... AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, 2002.

LIVE LOAD..... HS-20

DEAD LOAD..... INCLUDES 35 PSF FOR ALL WEARING SURFACES

CONCRETE..... CLASS A CONCRETE UNLESS OTHERWISE NOTED. f'c = 4 KSI

EXISTING STATIONS, ELEVATIONS, AND DIMENSIONS ARE BASED ON AS-BUILT PLANS AND THEREFORE MAY NOT REFLECT EXISTING CONDITIONS ENCOUNTERED IN THE FIELD. WHERE DIMENSIONS OF THE PROPOSED WORK DEPEND ON THE EXISTING BRIDGE DIMENSIONS, FIELD VERIFY THE CONTROLLING DIMENSIONS AND ADJUST PROPOSED DIMENSIONS TO FIT EXISTING CONDITIONS.

BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL
501(9B)	CRACK REPAIR BRIDGE NO. 1081	LF	LF	8	---	8
501(16B)	SPALL REPAIR BRIDGE NO. 1081	SF	SF	6	31	37
508(1B)	WATERPROOFING MEMBRANE BRIDGE NO. 1081	LS	SY	---	1645	1645
510(102B)	BRIDGE DECK REPAIRS BRIDGE NO. 1081	CS	SF	---	740	740
516(1B)	EXPANSION JOINT (HEADER & SILICONE) BRIDGE NO. 1081	LF	LF	---	461	461
582(1)	PILE REPAIR AND PROTECTION	EA	EA	6	---	6
583(1)	UNDERMINING REPAIR	CY	CY	30	---	30
583(2)	UNDERMINING REPAIR VOID BACKFILL	CY	CY	22	---	22
584(1)	GIRDER END PROTECTION	EA	EA	---	122	122
585(1)	DECK DRAIN MODIFICATION	EA	EA	---	16	16

ABBREVIATIONS

℄	= CENTERLINE
PL	= PLATE
&	= AND
@	= AT
Ø	= DIAMETER
±	= APPROXIMATE
APPROX.	= APPROXIMATE
ABUT.	= ABUTMENT
BOT.	= BOTTOM
BR.	= BRIDGE
BTWN.	= BETWEEN
BRG.	= BEARINGS
C.I.P.	= CAST IN PLACE
CLR.	= CLEAR, CLEARANCE
COL.	= COLUMN
C.J.	= CONSTRUCTION JOINT
CLSM	= CONTROLLED LOW-STRENGTH MATERIAL
CS	= CONTINGENT SUM
CY	= CUBIC YARD
DIA	= DIAMETER
DWG.	= DRAWING
(E)	= EXISTING
EA	= EACH
ELEV.	= ELEVATION
E.K.	= EACH FACE
E.W.	= EACH WAY
F.F.	= FAR FACE
FT	= FEET
FTG.	= FOOTING
GALV.	= GALVANIZE, GALVANIZED
HWY.	= HIGHWAY
H.S.	= HIGH STRENGTH
KIP	= 1,000 LB.
LB	= POUND
LF	= LINEAR FOOT
LS	= LUMP SUM
LT.	= LEFT
MAX.	= MAXIMUM
MIN.	= MINIMUM
N.A.	= NOT APPLICABLE
N.I.C.	= NOT IN CONTRACT
N.C.	= NOT CALCULATED
N.F.	= NEAR FACE
NO.	= NUMBER
O.H.W.	= ORDINARY HIGH WATER
PSF	= POUNDS PER SQUARE FOOT
PVC	= POINT OF VERTICAL CURVE
PVI	= POINT OF VERTICAL INTERSECTION
PVT	= POINT OF VERTICAL TANGENT
RT.	= RIGHT
SCH.	= SCHEDULE
SF	= SQUARE FOOT
S.I.P.	= STAY IN PLACE
SPA.	= SPACE, SPACES
STA.	= STATION
STR.	= STRAIGHT
SUBST.	= SUBSTRUCTURE
SUPERST.	= SUPERSTRUCTURE
SY	= SQUARE YARD
SYMM.	= SYMMETRIC
TYP.	= TYPICAL

Plans and Specifications have been reviewed for conformity to sound practice and represent to the best of my knowledge this project as designed.
Ealyn Ridley date 1/27/20

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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STATE OF ALASKA 49TH DAVID R. SHEARER CE 8373 6/2/17 Registered Professional Engineer

FRONT & MILL STREET VIADUCT

FRONT-MILL STREETS

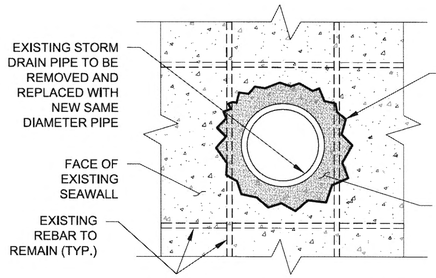
GENERAL NOTES

BRIDGE NO. 1081

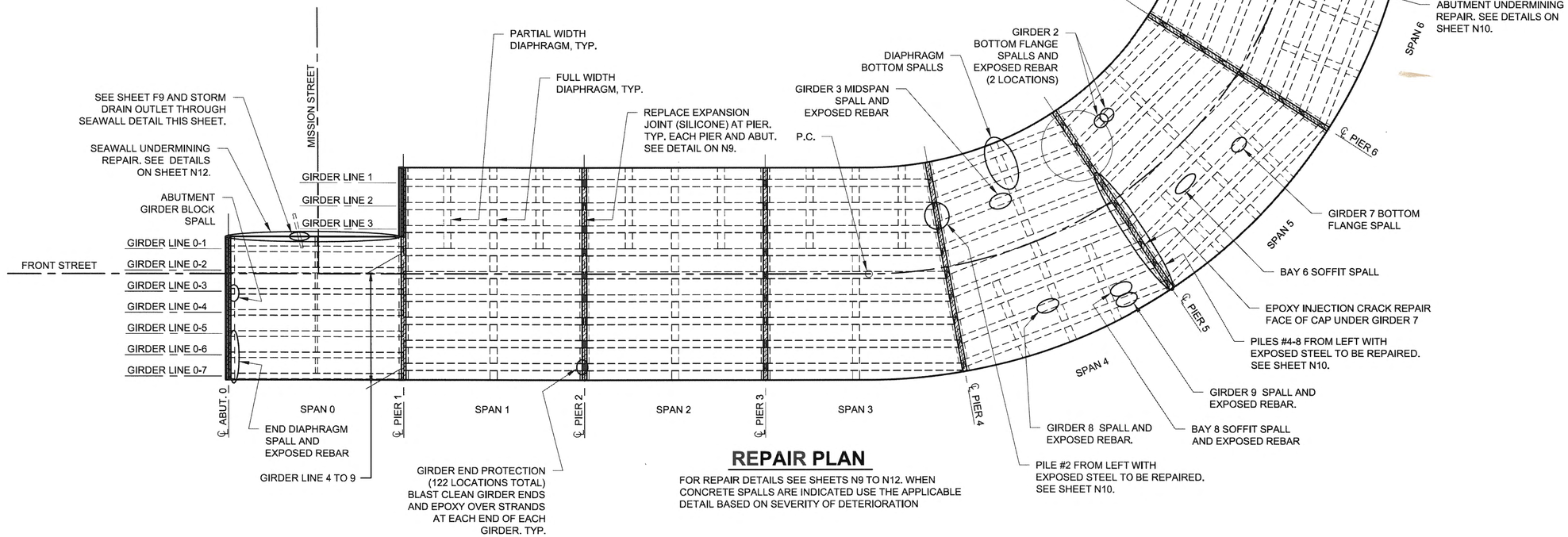
DWG. NO. 2

Jun 02, 2017 - 12:38pm joshua \\shearerserver\jobs\0217 mill st overlay\DWG\0217 General Notes.dwg Layout Name: N7 GENERAL NOTES
\\shearerserver\jobs\0217 mill st overlay\DWG\0217 General Notes-N7 GENERAL NOTES Fri, Jun/02/17 12:38pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N8	N18



STORM DRAIN OUTLET THROUGH SEAWALL DETAIL



REPAIR PLAN

FOR REPAIR DETAILS SEE SHEETS N9 TO N12. WHEN CONCRETE SPALLS ARE INDICATED USE THE APPLICABLE DETAIL BASED ON SEVERITY OF DETERIORATION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/27/20

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer

STATE OF ALASKA
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STATE OF ALASKA
DAVID R. SHEARER
CE 8373
6/2/17
Registered Professional Engineer

FRONT & MILL STREET VIADUCT

FRONT-MILL STREETS

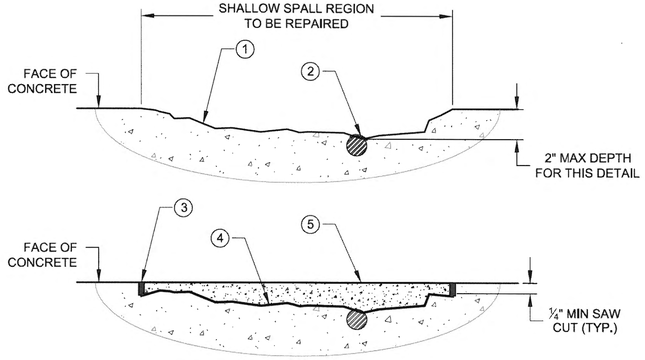
REPAIR PLAN

BRIDGE NO. 1081

DWG. NO. 3

Jun 02, 2017 - 12:38pm joshua \\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS-N8 REPAIR PLAN Fri, Jun/02/17 12:38pm
\\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS-N8 REPAIR PLAN Layout Name: N8 REPAIR PLAN

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N9	N18



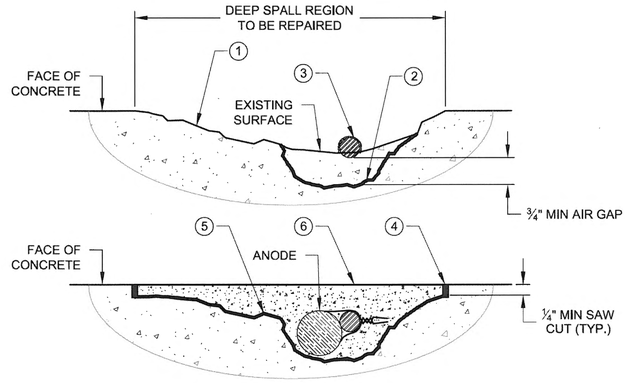
SHALLOW SPALL REPAIR DETAIL

THIS DETAIL APPLIES TO ALL SPALLS ON PRESTRESSED GIRDERS AND SPALLS IN REINFORCED CONCRETE WHERE LESS THAN 50% OF THE REBAR IS EXPOSED. VERIFY IF POOR COVER BUILDOUT DETAIL IS APPLICABLE.

1. LOCATE SPALL AND CLEAN EXISTING CONCRETE IN THE SPALL REGION.
2. REMOVE ALL SURFACE RUST FROM EXPOSED REBAR.
3. SAW CUT A BORDER AROUND AFFLICTED AREA A MINIMUM OF ¼" DEEP AND CHIP OUT ANY AREAS WHICH WOULD CAUSE THE REPAIR TO BE LESS THAN ¼" THICK.
4. APPLY BONDING AGENT TO CLEANED SURFACE.
5. INSTALL PATCHING MATERIAL.

REPAIR GENERAL NOTES

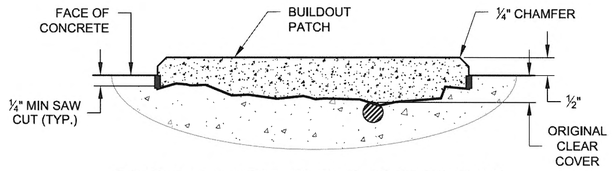
- REPAIRS SHALL BE LOCATED PER THE REPAIR PLANS ON SHEETS N3 AND N6. IF DURING CONSTRUCTION OTHER LOCATIONS WITH DEFICIENCIES ARE FOUND THE ENGINEER SHALL BE NOTIFIED.
- MATERIALS NOT DESCRIBED HERE SHALL BE PER THE SPECIFICATIONS.



DEEP SPALL REPAIR DETAIL

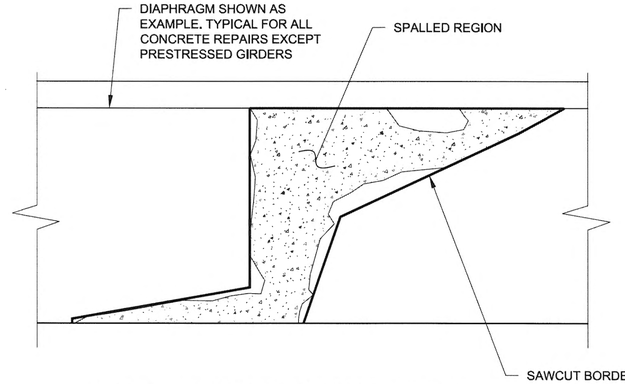
DO NOT APPLY THIS DETAIL TO A PRESTRESSED GIRDER. THIS DETAIL APPLIES TO SPALLS IN REINFORCED CONCRETE WHERE MORE THAN 50% OF THE REBAR IS EXPOSED. VERIFY IF POOR COVER BUILDOUT DETAIL IS APPLICABLE.

1. LOCATE SPALL AND CLEAN EXISTING CONCRETE IN THE SPALL REGION.
2. CHIP OUT CONCRETE AROUND THE REBAR TO FULLY EXPOSE IT AND PROVIDE A MINIMUM ¾" AIR GAP BETWEEN BAR AND CONCRETE FOR THE LENGTH OF SURFACE RUST OR A MINIMUM LENGTH OF 4" .
3. REMOVE ALL SURFACE RUST FROM EXPOSED REBAR AND INSTALL ANODE.
4. SAW CUT A BORDER AROUND AFFLICTED AREA A MINIMUM OF ¼" DEEP AND CHIP OUT ANY AREAS WHICH WOULD CAUSE THE REPAIR TO BE LESS THAN ¼" THICK.
5. APPLY BONDING AGENT TO CLEANED SURFACE.
6. INSTALL PATCHING MATERIAL.

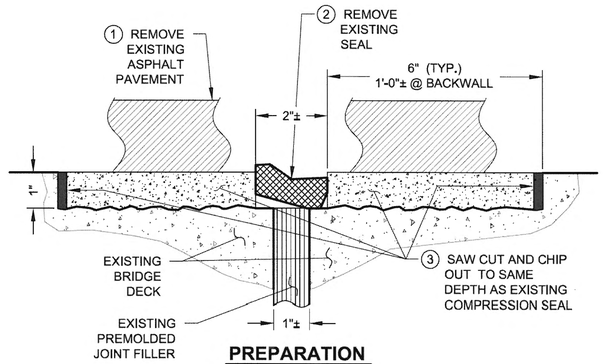


POOR COVER BUILDOUT DETAIL

THIS DETAIL APPLIES TO EITHER SHALLOW OR DEEP SPALLS WHERE THE ORIGINAL CLEAR COVER ON THE EXPOSED BAR WAS 1" OR LESS. IN THESE CASES THE PATCH SHALL BE INCREASED IN THICKNESS AS SHOWN.



TYPICAL SAWCUTTING DETAIL



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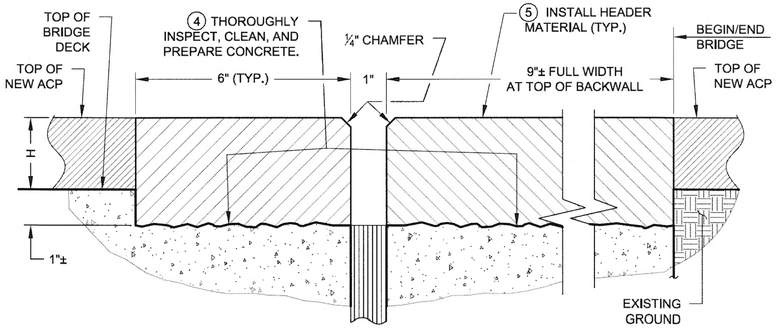
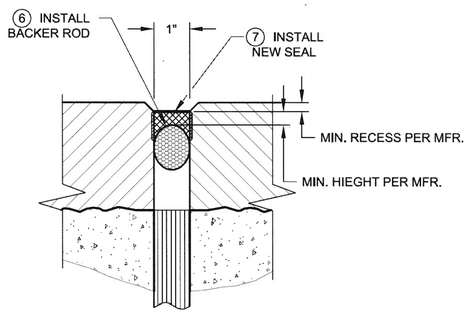


HEADER PLACEMENT

EXPANSION JOINT REPAIR DETAILS

'H' TO MATCH HEIGHT OF FINAL ACP OVERLAY



SEAL INSTALLATION

Projects As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Ulley Date 1/27/20

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer		
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer		
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer		

STATE OF ALASKA
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STATE OF ALASKA
DAVID R. SHEARER
CE 8373
6/2/17
Registered Professional Engineer

FRONT & MILL STREET VIADUCT

FRONT-MILL STREETS

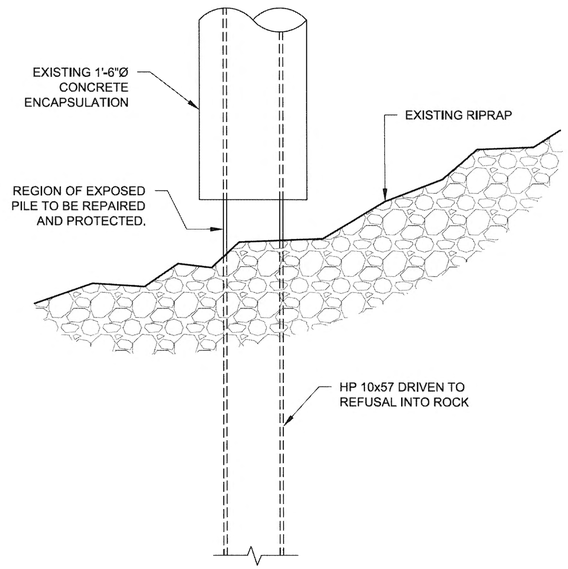
REPAIR DETAILS 1 OF 2

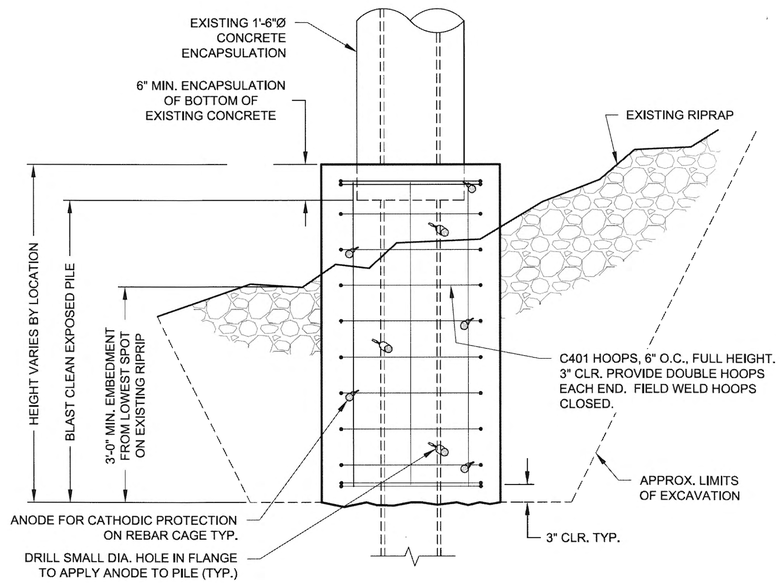
BRIDGE NO. 1081

DWG. NO. 4

Jun 02, 2017 - 12:38pm joshua \\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS.dwg Layout Name: N9 REPAIR DETAILS 1 OF 2
\\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS-N9 REPAIR DETAILS 1 OF 2 Fri, Jun/02/17 12:38pm

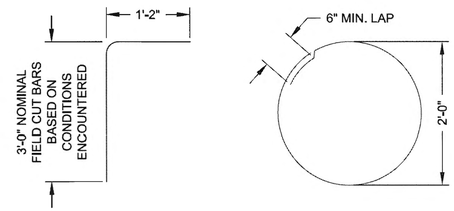
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N10	N18





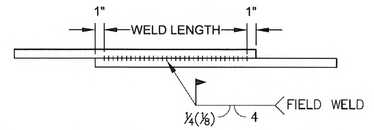
REINFORCING STEEL

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
A401	a	4	46	4'-2"	BENT
A402		4	5	40'-0"	---
C401		4	84	6'-10"	BENT
C402	a	4	36	6'-0"	---



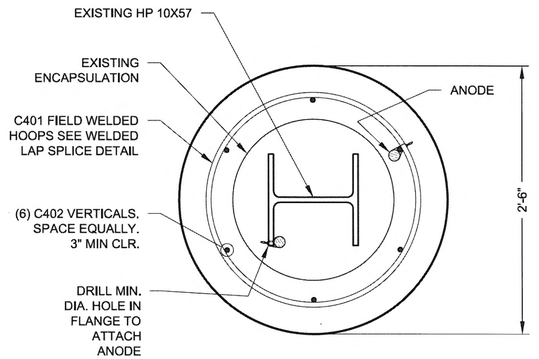
ALL REINFORCING STEEL SHALL BE ASTM A706

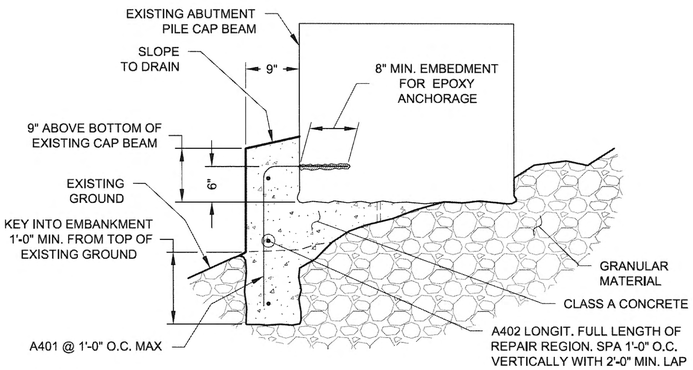
a - FIELD CUT FOR ENCOUNTERED CONDITIONS.



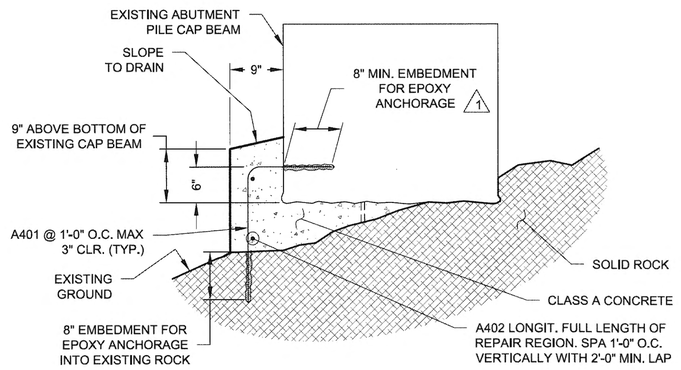
WELDED LAP SPLICE DETAIL

WELDING SHALL MEET THE REQUIREMENTS OF ANSI/AWS D1.4 STRUCTURAL WELDING CODE





SHOWN AT ABUTMENT 7.
DETAIL ASSUMES EXISTING GROUND IS SOIL/GRAVEL/RIPRAP. IF SOLID ROCK IS ENCOUNTERED SEE ALTERNATE DETAIL.



SHOWN AT ABUTMENT 7.
DETAIL ASSUMES EXISTING GROUND IS SOLID ROCK. IF GRANULAR MATERIAL IS ENCOUNTERED SEE ALTERNATE DETAIL.

1

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Wilding Date 1/27/20

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer

NO.	DATE	BY	REVISIONS DESCRIPTION
1	11/8/17	JLP	DOUBLE SHEET ID REMOVED
1	11/8/17	JLP	DIMENSION MOVED

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STATE OF ALASKA · 49TH · DAVID R. SHEARER CE 8373 · 11/8/17 · Registered Professional Engineer

FRONT & MILL STREET VIADUCT

FRONT-MILL STREETS

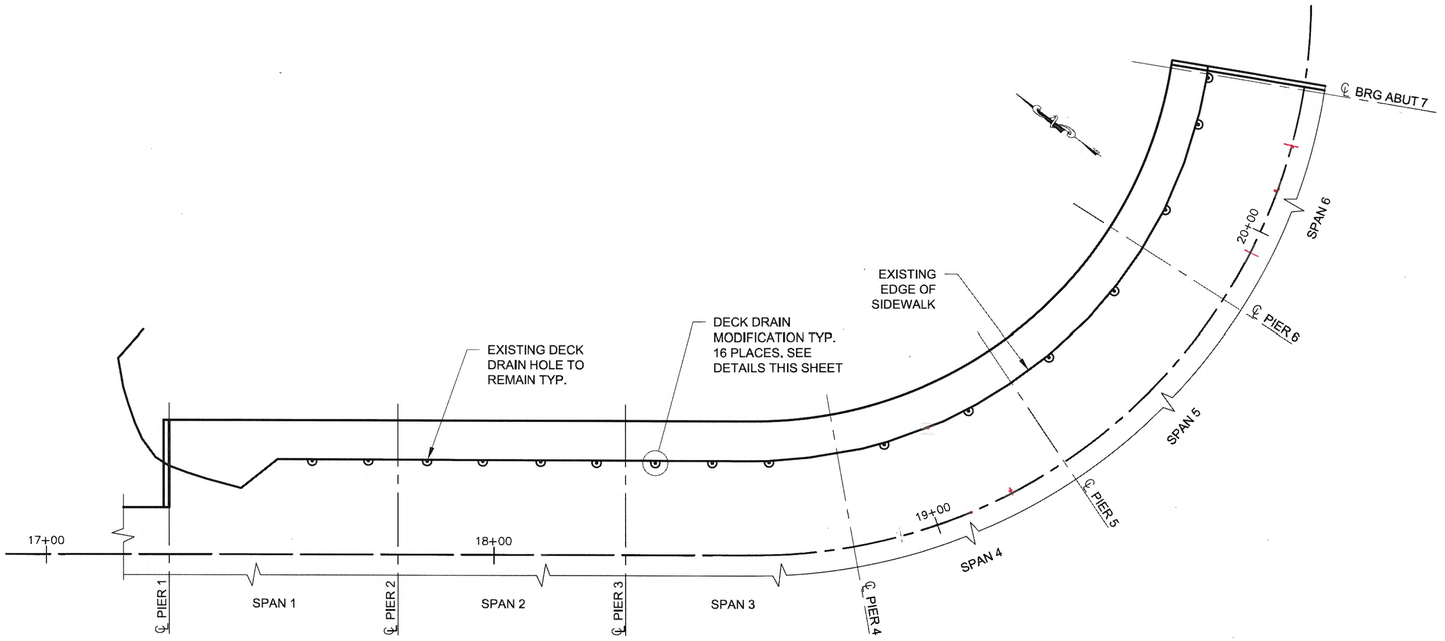
REPAIR DETAILS 2 OF 2

BRIDGE NO. 1081

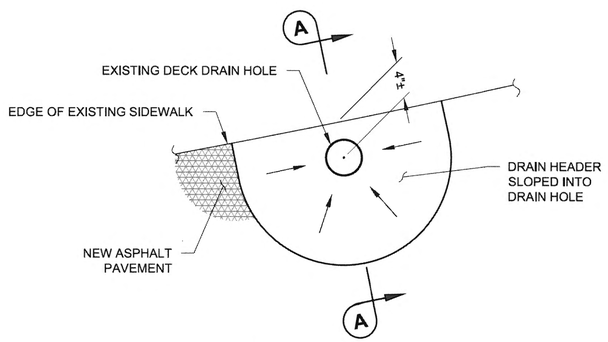
DWG. NO. 5

\\shearerserver\Jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS-N10 REPAIR DETAILS 2 OF 2 Wed, Nov/08/17 01:26pm

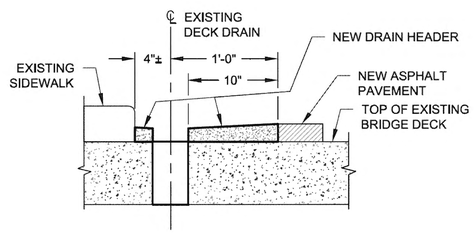
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N11	N18



DECK DRAIN MODIFICATION PLAN



DECK DRAIN MODIFICATION



SECTION A-A

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer

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FRONT & MILL STREET VIADUCT

FRONT-MILL STREETS

DECK DRAIN MODIFICATION

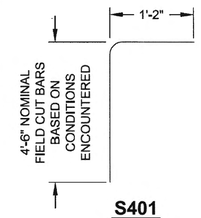
BRIDGE NO. 1081
DWG. NO. 6

Jun 02, 2017 - 12:38pm joshua \\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS.dwg Layout Name: N11 DECK DRAIN MODIFICATION
\\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS-N11 DECK DRAIN MODIFICATION Fri, Jun/02/17 12:38pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(038)/Z681600000	2017	N12	N18

REINFORCING STEEL

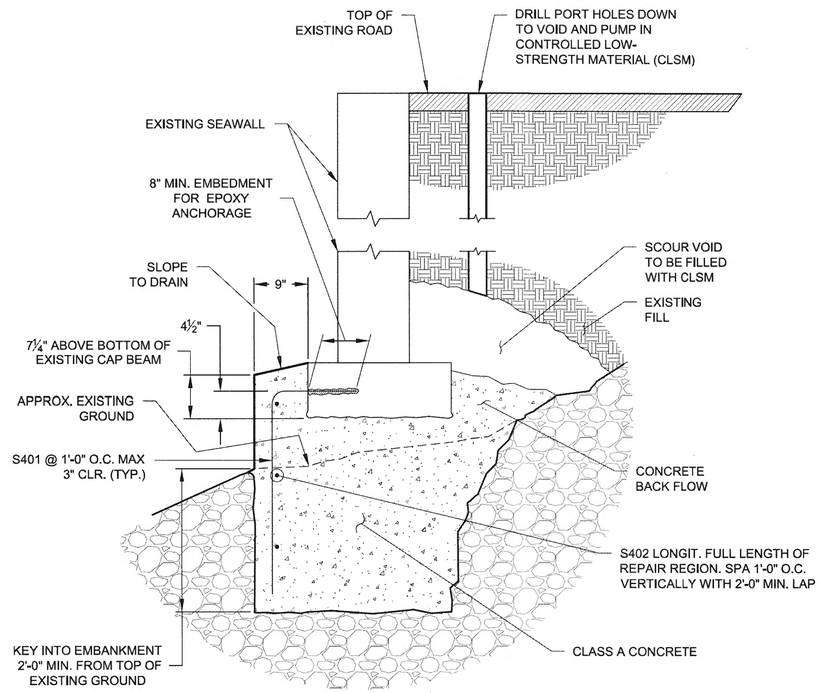
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
S401	a	4	52	5'-8"	BENT
S402	a	4	8	28'-0"	---



S401

ALL REINFORCING STEEL SHALL BE ASTM A706

a - FIELD CUT FOR ENCOUNTERED CONDITIONS.



UNDERMINING REPAIR FOR SEAWALL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Ellis Date 1/27/20

DESIGNED BY: Joshua Pruitt	CHECKED: David Shearer
DRAWN BY: Joshua Pruitt	CHECKED: David Shearer
QUANTITIES BY: Joshua Pruitt	CHECKED: David Shearer

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

STATE OF ALASKA
DAVID R. SHEARER
CE 8373
6/2/17
Registered Professional Engineer

FRONT & MILL STREET VIADUCT

FRONT-MILL STREETS

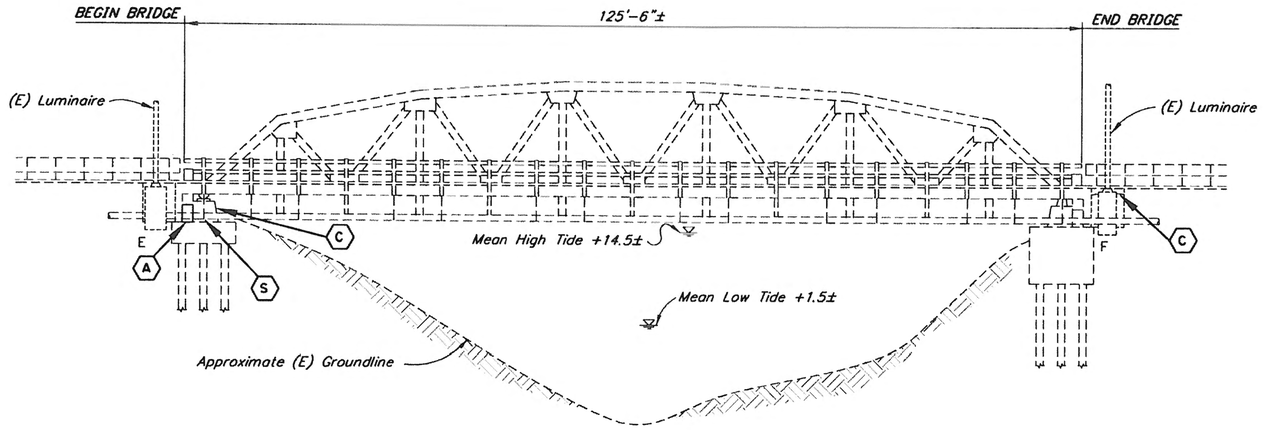
SEAWALL UNDERMINING REPAIR

BRIDGE NO. 1081

DWG. NO. 7

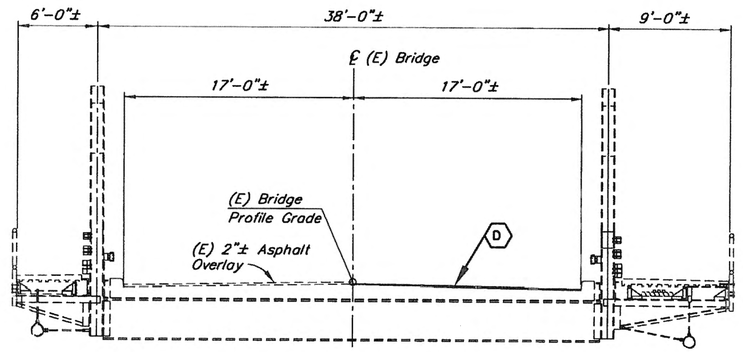
Jun 02, 2017 - 12:38pm joshua \\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS.dwg Layout Name: N12 SEAWALL UNDERMINING REPAIR
\\shearerserver\jobs\0217 mill st overlay\DWG\0217 REPAIR DETAILS-N12 SEAWALL UNDERMINING REPAIR Fri, Jun/02/17 12:38pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-092(038)/Z681600000	2017	N13	140



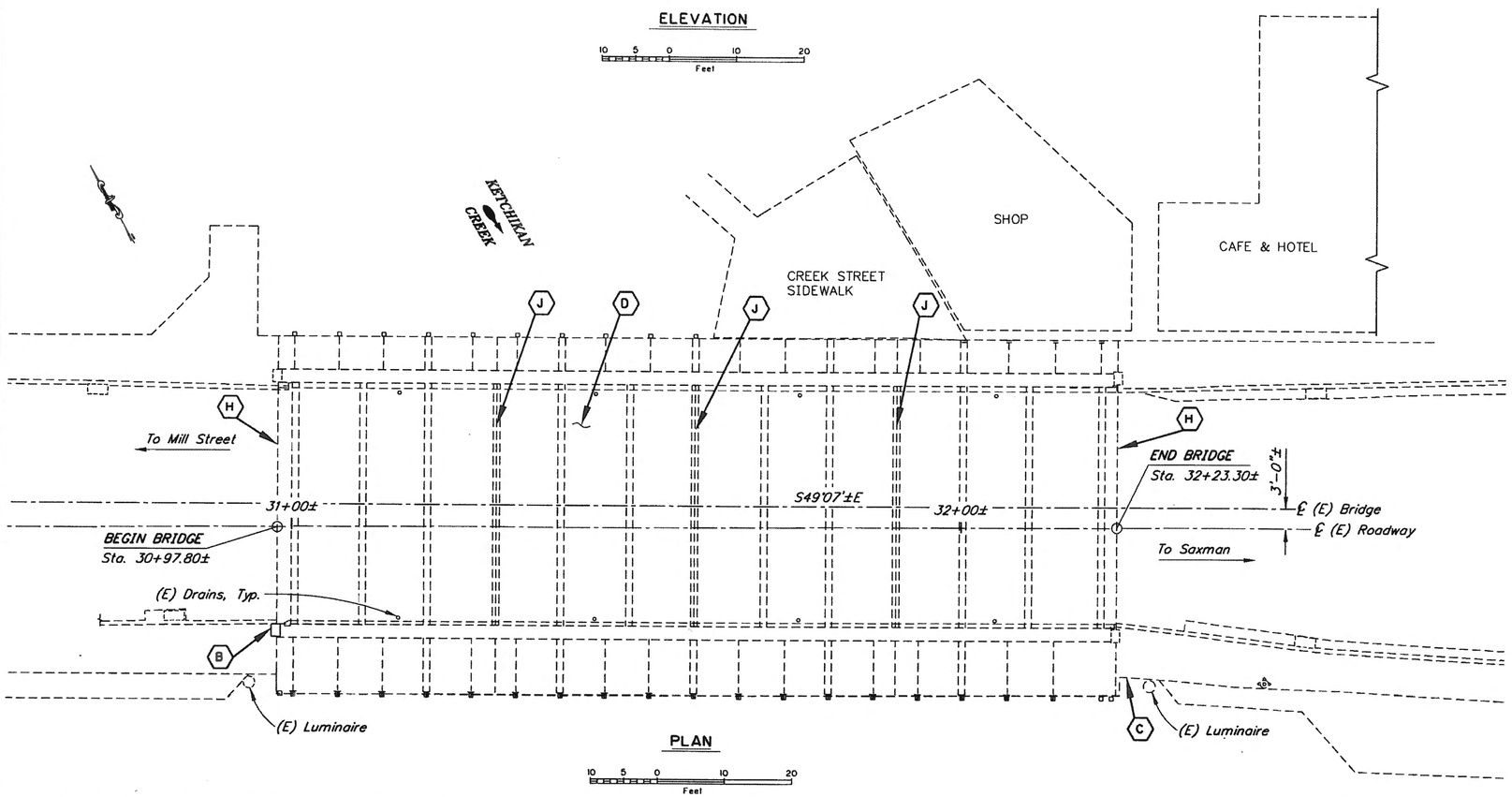
ELEVATION

10 5 0 10 20
Feet



TYPICAL SECTION

12 0 5 10
In. Feet



PLAN

10 5 0 10 20
Feet

BRIDGE DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
GENERAL NOTES	2
DECK DETAILS	3
EXISTING ABUTMENT 1	4
PROPOSED ABUTMENT 1	5
ABUTMENT DETAILS	6

LEGEND

- (A) = Abutment Extension
- (B) = Repair Concrete Ballard
- (C) = Crack Repair
- (D) = Deck Rehabilitation
- (H) = Install Header
- (J) = Replace Joint Filler
- (S) = Install Stub Wall

REHABILITATION

LEGEND

(E) = Existing
------ = Existing
——— = Denotes this contract

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions, including tidal fluctuations, before ordering or fabricating any material.

Project as-built drawings have been reviewed by the Central Engineer and represent to the best of our knowledge the project as constructed.
Earl Oling Date 1/27/20

DESIGNED BY: Jared Levings	CHECKED: Krish Balasubramanian	LAYOUT BY: Jared Levings	CHECKED BY: Krish Balasubramanian
DRAWN BY: Sam Sollie	CHECKED: Jared Levings	SPECIFICATIONS BY: Jared Levings	P S & E COMPARED: Krish Balasubramanian
QUANTITIES BY: Jared Levings	CHECKED: Krish Balasubramanian	APPROVAL RECOMMENDED BY:	Richard Pratt

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

STATE OF ALASKA 49TH Jared C. Levings No. CE 14291 REGISTERED PROFESSIONAL ENGINEER
1-18-17

KETCHIKAN CREEK BRIDGE
SOUTH TONGASS HIGHWAY
GENERAL LAYOUT

BRIDGE NO. 724
DWG. NO. 1

R:\cad\724\724 rail-GEN Wed, Jan/18/17 05:44am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-092(038)/Z681600000	2017	N14	140

GENERAL NOTES

NEW DESIGN: ..... *AASHTO LRFD Bridge Design Specifications, 2014 Edition, with latest interim specifications.*

LIVE LOAD: ..... *H-20 (1944 Construction drawings)*

DEAD LOAD: ..... *Includes 0 psf for all wearing surfaces (1944 Construction drawings)*

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

NEW REINFORCEMENT: ..... *A706 Grade 60, Fy = 60,000 psi*

Existing stations, elevations and dimensions are based on as-built plans, and these plans may not show existing dimensions and conditions. Where dimensions of the proposed work depend on the existing bridge dimensions, field-verify the controlling dimensions and adjust proposed dimensions of the work to fit existing conditions.

BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL
501(1)	Class A Concrete	LS	CY	3.6	---	3.6
501(9)	Crack Repair	LF	LF	32.3	---	32.3
503(1)	Reinforcing Steel	LS	LB	280	---	280
503(3)	Drill and Bond Dowels	EA	EA	72	---	72
510(1)	Removal of Concrete Bridge Deck	SF	SF	---	4,216	4,216
510(102)	Bridge Deck Repairs	CS	SF	---	210	210
516(1)	Expansion Joint (Silicone)	LF	LF	---	190	190
525(1)	Polyester Concrete Overlay	LS	CF	---	264	264
642(104)	Bridge Survey	LS	LS	---	---	All Req'd

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

ABBREVIATIONS:

℄	= centerline	f.f.	= front/air face
℘	= plate	Hwy.	= highway
&	= and	ksf	= 1000 pounds per square foot
@	= at	LB	= pound
ø	= diameter	LF	= linear foot
±	= approximate	LS	= lump sum
Abut.	= abutment	Lt.	= left
Approx.	= approximate	max.	= maximum
b.f.	= back/dirt face	min.	= minimum
bot.	= bottom	n.f.	= near face
Br.	= bridge	No.	= number
btwn.	= between	o.c.	= on center
Brg.	= Bearings	O.H.W.	= ordinary high water
C.I.P.	= cast in place	psf	= pounds per square foot
Clr.	= clear, clearance	psi	= pounds per square inch
CF	= cubic feet	PVC	= point of vertical curve
CY	= cubic yard	PVI	= point of vertical intersection
dia.	= diameter	PVT	= point of vertical tangent
DIP	= ductile iron pipe	R.O.W.	= right of way
Dwg.	= drawing	Rt.	= right
E	= expansion	Rd.	= road
(E)	= existing	RMC	= rigid metal conduit
EA	= each	spc.	= space, spaces
Elev.	= elevation	Sta.	= station
e.a.	= each face	SF	= square feet
e.w.	= each way	Symm.	= symmetric
F	= fixed	Typ.	= typical
		w/	= with

LEGEND

(E) = Existing

------- = Existing

——— = Denotes this contract

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

Projects As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Project Engineer Date 1/27/18

R:\cad\724\724 roll-NOTES Wed. Jan/18/17 05:45am

DESIGNED BY: Jared Levings	CHECKED: Krish Balasubramanian
DRAWN BY: Sam Sollie	CHECKED: Jared Levings
QUANTITIES BY: Jared Levings	CHECKED: Krish Balasubramanian

REHABILITATION

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

STATE OF ALASKA 49TH — Jared C. Levings No. CE 14291 — REGISTERED PROFESSIONAL ENGINEER — 1-18-17

KETCHIKAN CREEK BRIDGE

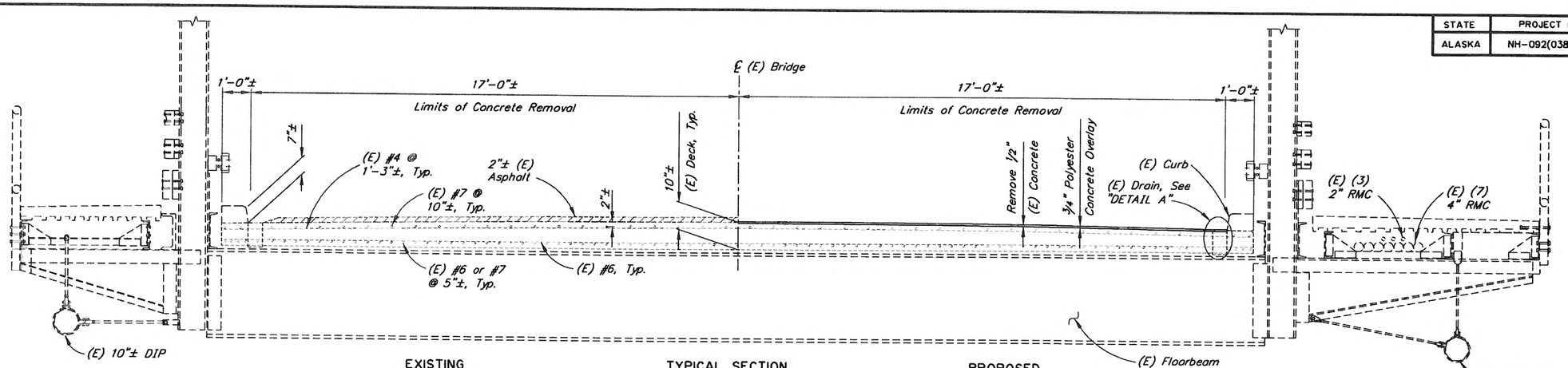
SOUTH TONGASS HIGHWAY

GENERAL NOTES

BRIDGE NO. 724

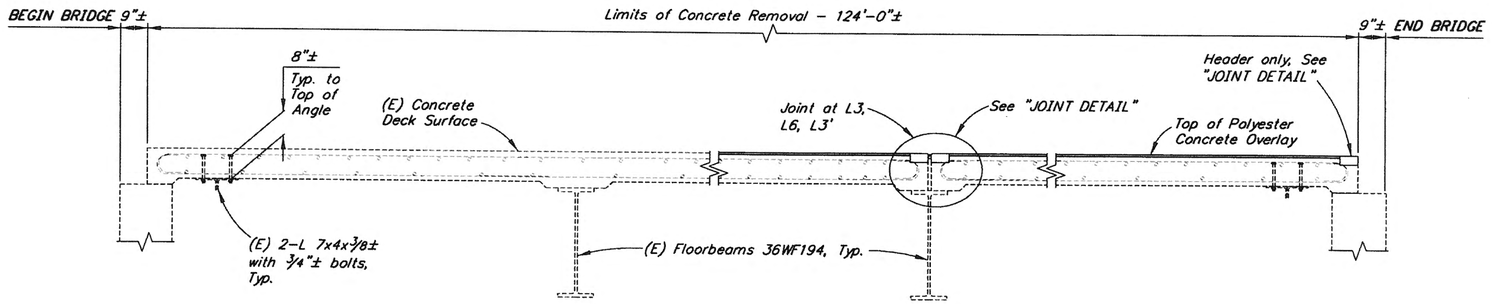
DWG. NO. 2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-092(038)/Z681600000	2017	N15	140



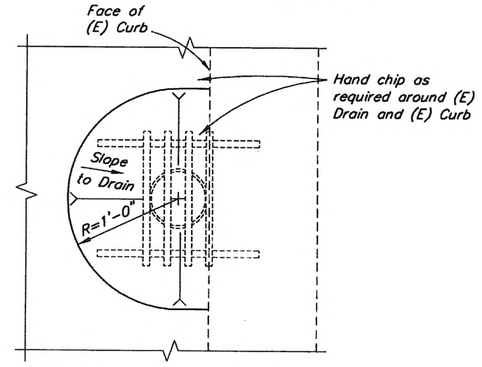
TYPICAL SECTION

12 6 0 1 2 3 4
In. Feet

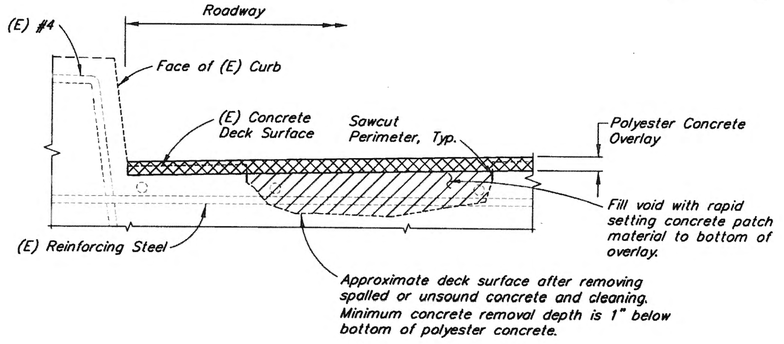


LONGITUDINAL SECTION

12 6 0 1 2 3 4
In. Feet

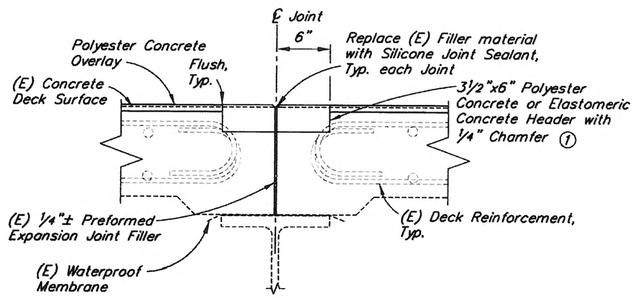


PLAN



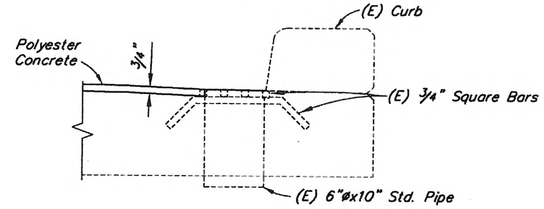
DECK REPAIR DETAIL

No Scale



JOINT DETAIL

12 6 0 1
In. Feet



SECTION DETAIL A

12 6 0 1
In. Feet

LEGEND

(E) = Existing
------- = Existing
——— = Denotes this contract

① Header stops at face of curb. Sawcut and remove (E) deck, (E) reinforcing to remain. Fill curb gap surfaces with silicone joint sealant.

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: Sally Kelly Date: 1/27/20

DESIGNED BY: Jared Levings	CHECKED: Krish Balasubramanian	REHABILITATION	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Sam Sollis	CHECKED: Jared Levings		
QUANTITIES BY: Jared Levings	CHECKED: Krish Balasubramanian		

STATE OF ALASKA 49TH — Jared C. Levings No. CE 14291 — REGISTERED PROFESSIONAL ENGINEER
1-18-17

KETCHIKAN CREEK BRIDGE

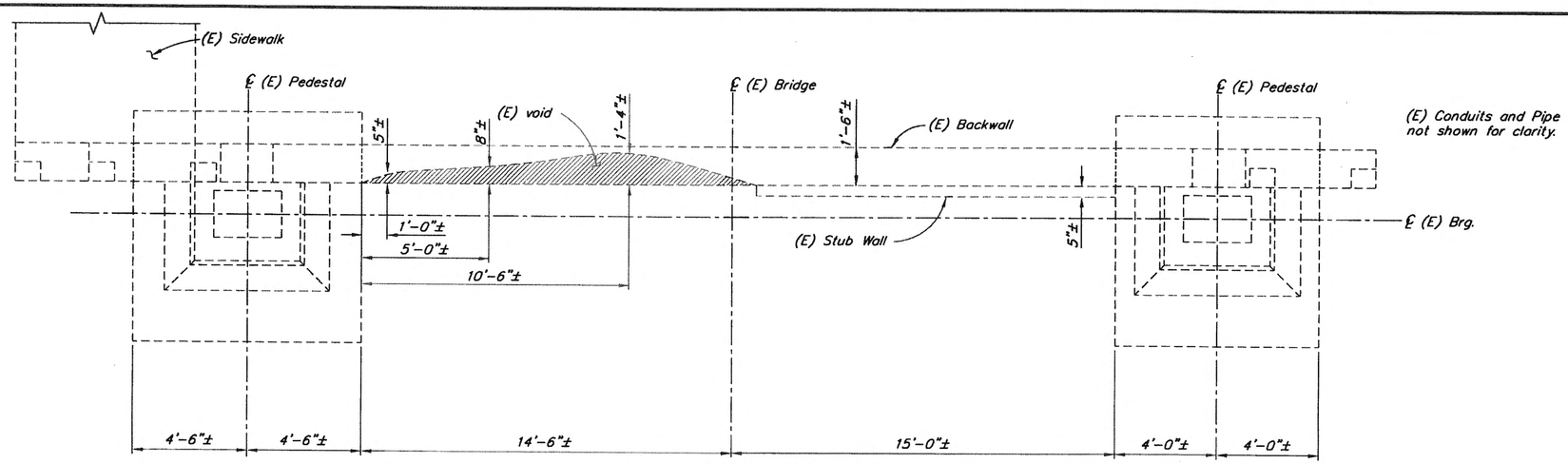
SOUTH TONGASS HIGHWAY

DECK DETAILS

BRIDGE NO. 724
DWG. NO. 3

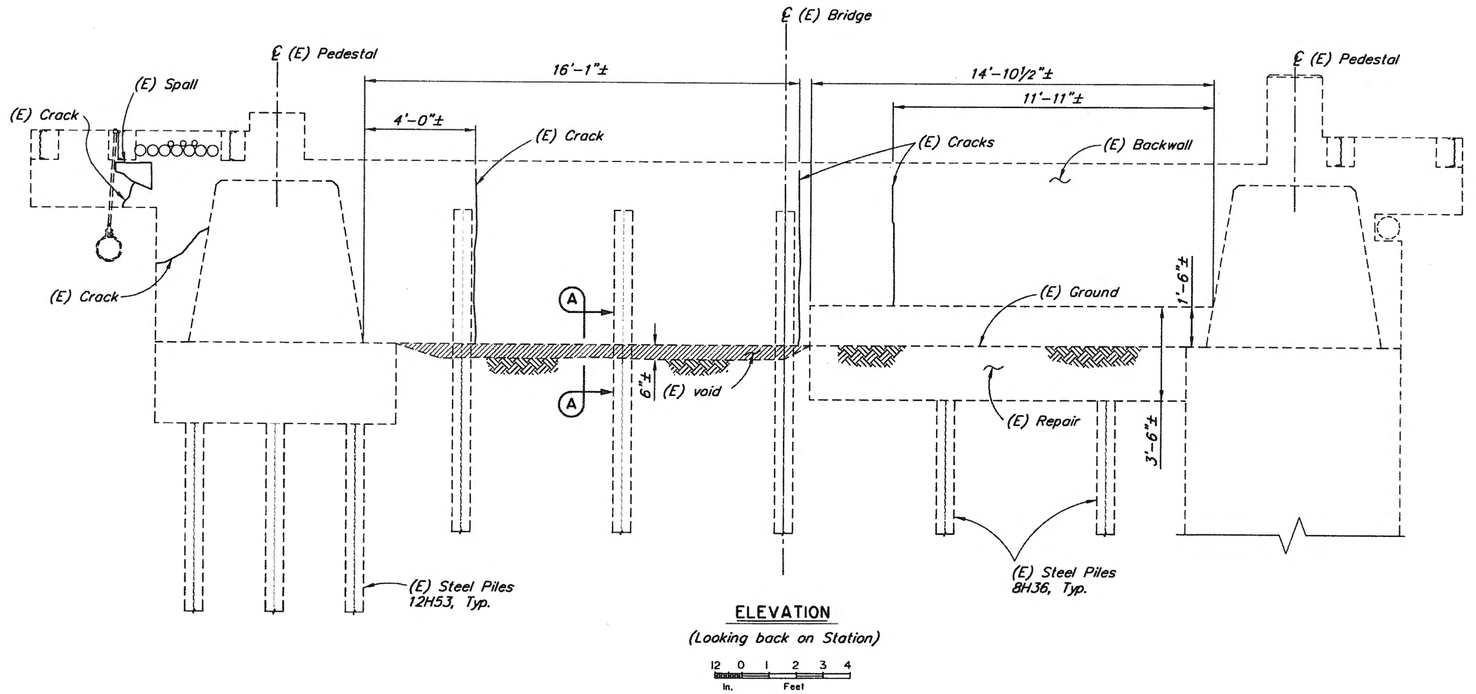
R:\cad\724\724 roli-DETAILS Wed, Jan/18/17 05:45am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-092(038)/Z681600000	2017	N16	140



PLAN

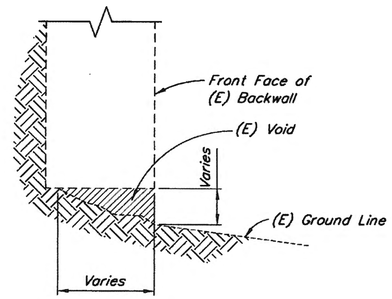
12 0 1 2 3 4
In. Feet



ELEVATION

(Looking back on Station)

12 0 1 2 3 4
In. Feet



SECTION A-A

12 6 0 1 2
In. Feet

LEGEND

(E) = Existing

------- = Existing

——— = Denotes this contract

▨ = Denotes (E) Void Under Abutment

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Kelly Date 1/27/20

R:\cad\724\724 rail-(E) ABUTMENTS Wed, Jan/18/17 05:45am

DESIGNED BY: Jared Levings	CHECKED: Krish Balasubramanian	REHABILITATION	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Sam Sollie	CHECKED: Jared Levings		
QUANTITIES BY: Jared Levings	CHECKED: Krish Balasubramanian		

STATE OF ALASKA 49TH Jared C. Levings No. CE 14291 REGISTERED PROFESSIONAL ENGINEER
1-19-17

KETCHIKAN CREEK BRIDGE

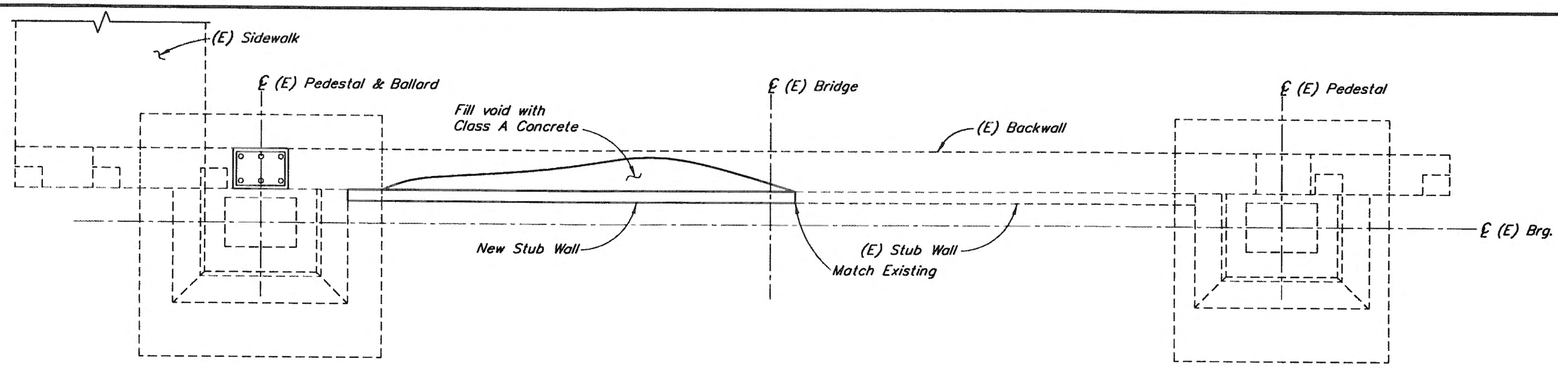
SOUTH TONGASS HIGHWAY

EXISTING ABUTMENT 1

BRIDGE NO. 724

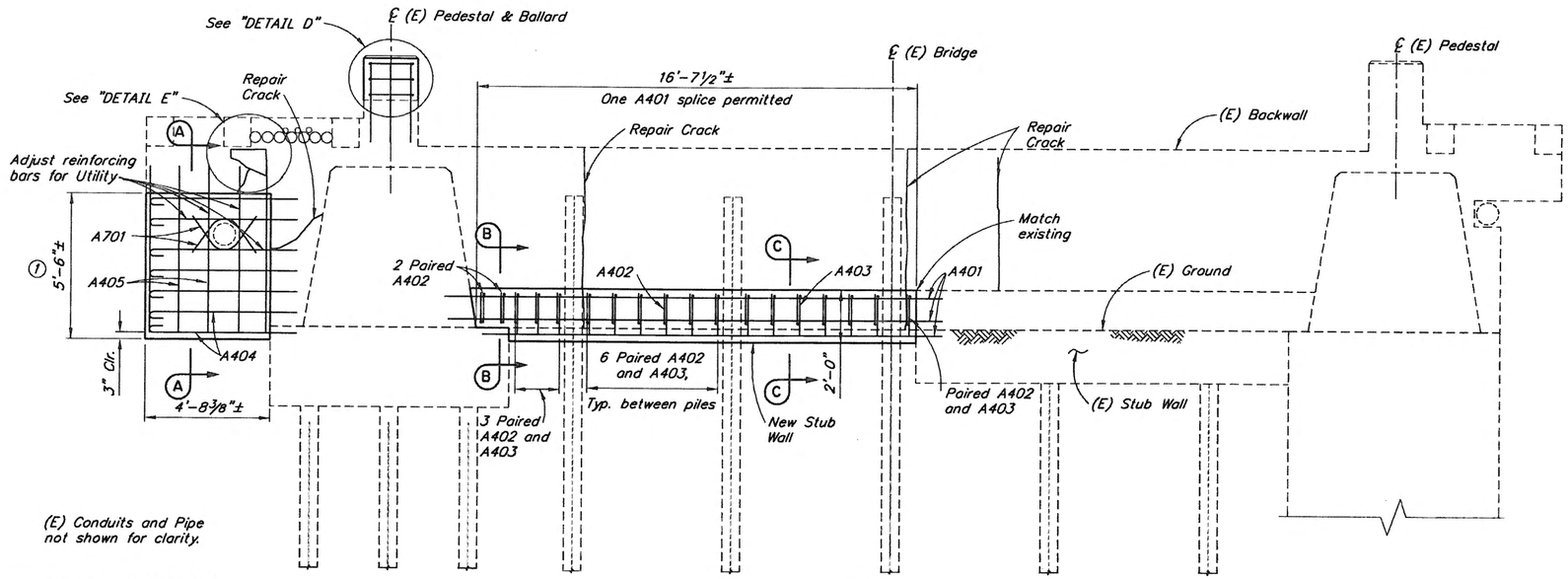
DWG. NO. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-092(038)/Z681600000	2017	N17	140



PLAN

12 0 1 2 3 4
In. Feet



(E) Conduits and Pipe not shown for clarity.

SECTION A-A, SECTION B-B, SECTION C-C, DETAIL D, and DETAIL E See "ABUTMENT DETAILS" Dwg.

ELEVATION

(Looking back on Station)

12 0 1 2 3 4
In. Feet

LEGEND

(E) = Existing
------ = Existing
——— = Denotes this contract
① = Extend concrete 6" below existing ground or to bedrock, whichever is encountered first. Lengthen rebar as required.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By Emily Kelley Date 1/27/20

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: Jared Levings	CHECKED: Krish Balasubramanian	REHABILITATION
DRAWN BY: Sam Sallie	CHECKED: Jared Levings	
QUANTITIES BY: Jared Levings	CHECKED: Krish Balasubramanian	

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

STATE OF ALASKA 49TH
Jared C. Levings
No. CE 14291
REGISTERED PROFESSIONAL ENGINEER
1-18-17

KETCHIKAN CREEK BRIDGE

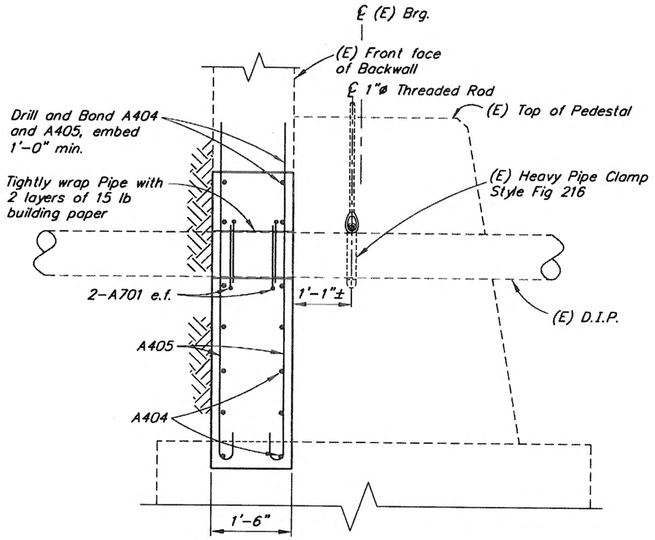
SOUTH TONGASS HIGHWAY

PROPOSED ABUTMENT 1

BRIDGE NO. 724
DWG. NO. 5

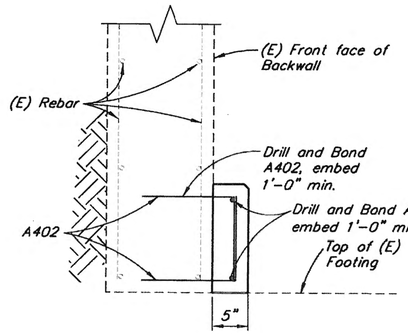
R:\cad\724\724 rail-ABUTMENTS Wed, Jan/18/17 05:45am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-092(038)/Z681600000	2017	N18	140



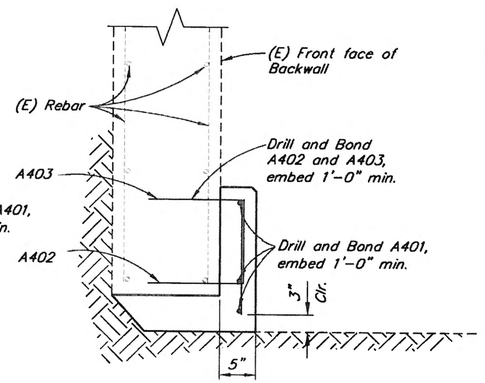
SECTION A-A

12 6 0 1 2 3
In. Feet



SECTION B-B

12 6 0 1 2
In. Feet



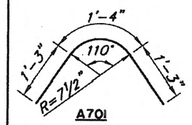
SECTION C-C

12 6 0 1 2
In. Feet

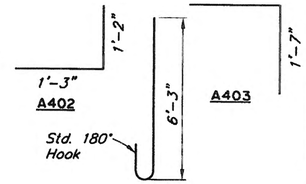
REINFORCING STEEL

MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
A401		4	3	VARIES	---	
A402		4	20	2'-5"	BENT	
A403		4	16	2'-10"	BENT	
A404		4	14	6'-1"	BENT	
A405		4	10	6'-9"	BENT	
A406		4	4	6'-5"	BENT	
A601		6	6	3'-4"	---	
A701		7	4	3'-10"	BENT	

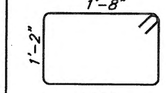
(1) 17'-5" min. / 18'-10" max. — A401



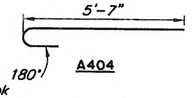
A701



A402 A403 A405



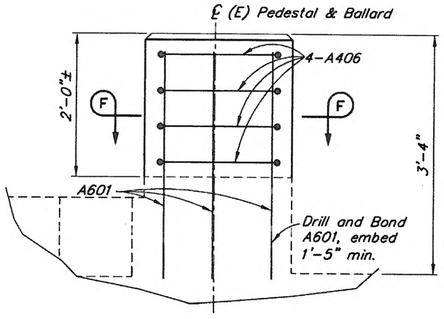
A406



A404

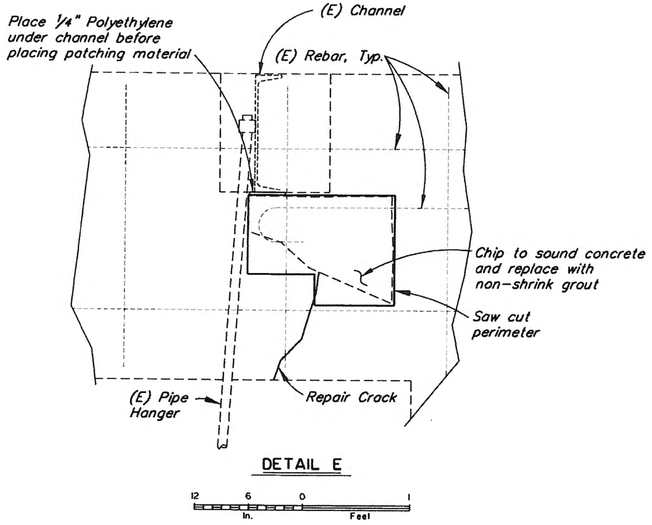
SECTION F-F

12 6 0 1 2
In. Feet



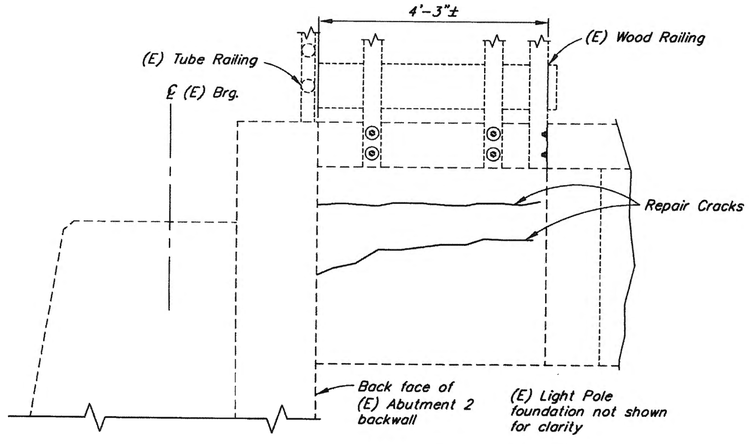
DETAIL D

12 6 0 1 2
In. Feet



DETAIL E

12 6 0 1
In. Feet



ELEVATION

FAR END DOWNSTREAM VIEW

12 6 0 1 2 3
In. Feet

LEGEND

(E) = Existing
------ = Existing
——— = Denotes this contract

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/27/20

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

R:\cad\724\724 roll-ABUTMENT DETAILS Wed, Jan/18/17 05:45am

DESIGNED BY: Jared Levings	CHECKED: Krish Balasubramanian	REHABILITATION	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Sam Sollie	CHECKED: Jared Levings		
QUANTITIES BY: Jared Levings	CHECKED: Krish Balasubramanian		

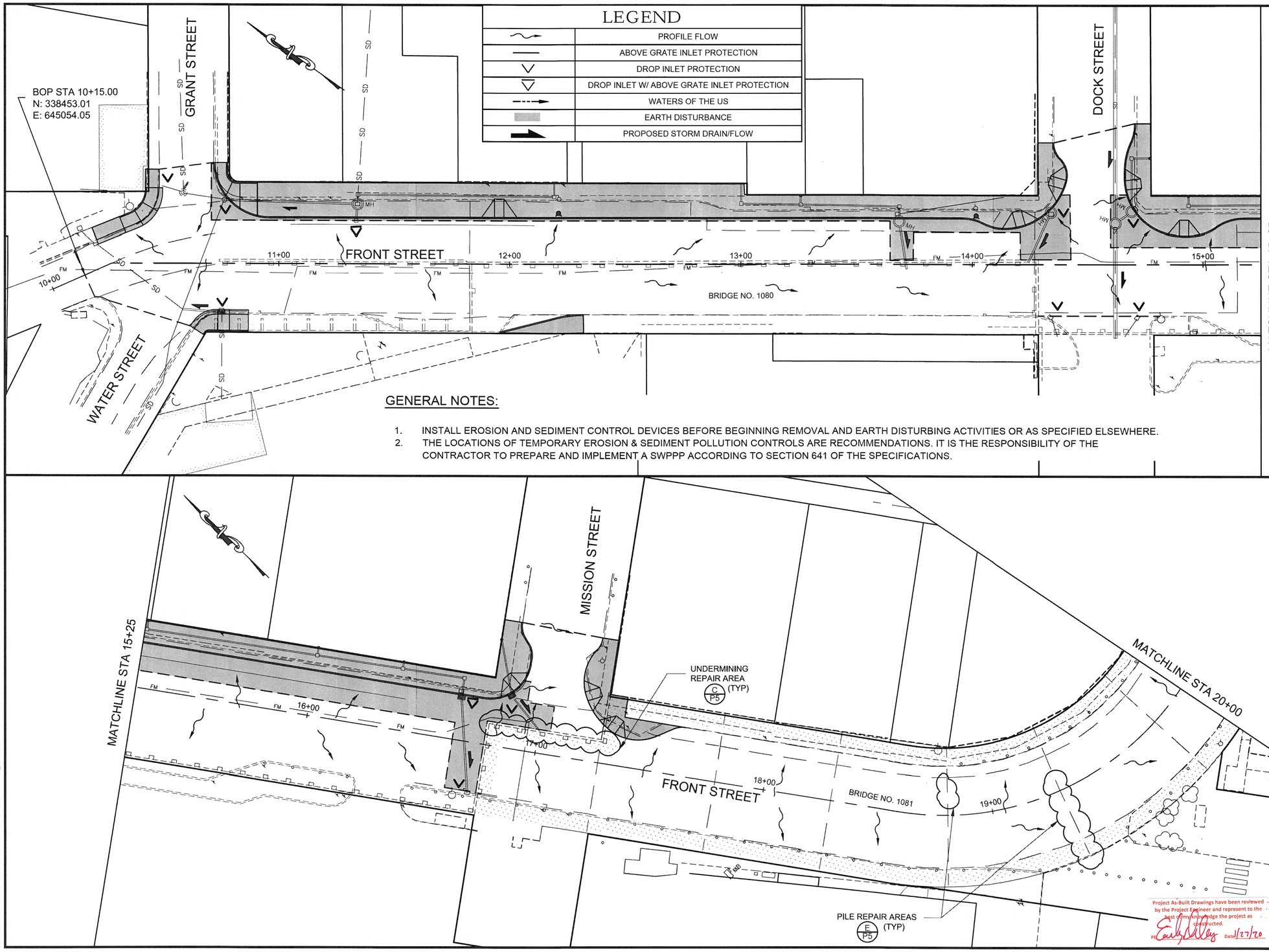
STATE OF ALASKA 49TH — Jared C. Levings No. CE 14291 — REGISTERED PROFESSIONAL ENGINEER
1-18-17

KETCHIKAN CREEK BRIDGE

SOUTH TONGASS HIGHWAY

ABUTMENT DETAILS

BRIDGE NO. 724
DWG. NO. 6



GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE BEGINNING REMOVAL AND EARTH DISTURBING ACTIVITIES OR AS SPECIFIED ELSEWHERE.
2. THE LOCATIONS OF TEMPORARY EROSION & SEDIMENT POLLUTION CONTROLS ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A SWPPP ACCORDING TO SECTION 641 OF THE SPECIFICATIONS.

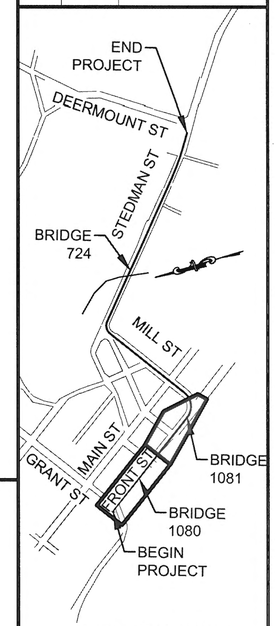
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

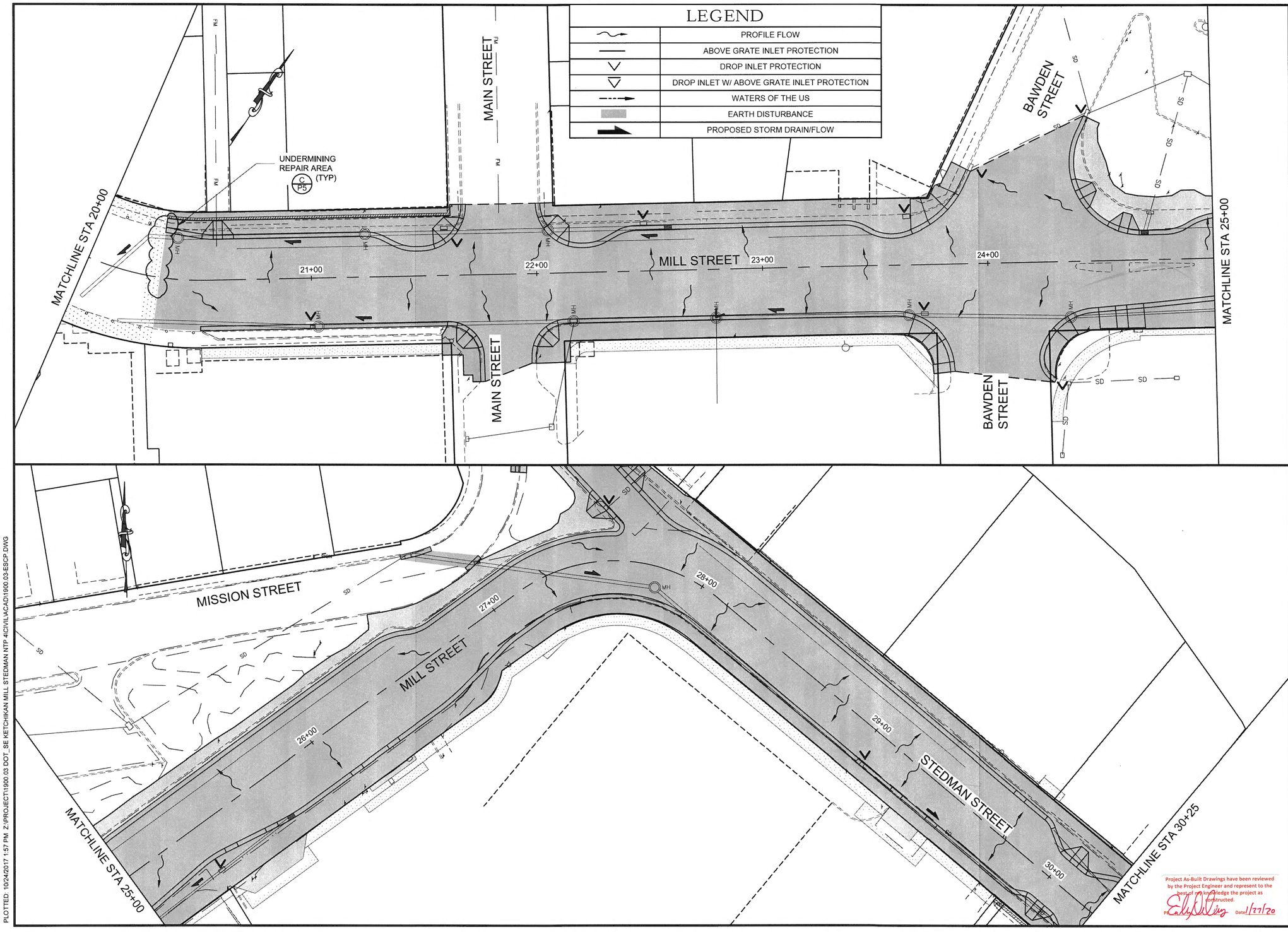
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

EROSION & SEDIMENT CONTROL PLAN

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
P1	140

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Kelley Date 1/27/20

PLOTTED: 10/24/2017 1:57 PM Z:\PROJECT\11900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\11900.03-ESCP.DWG



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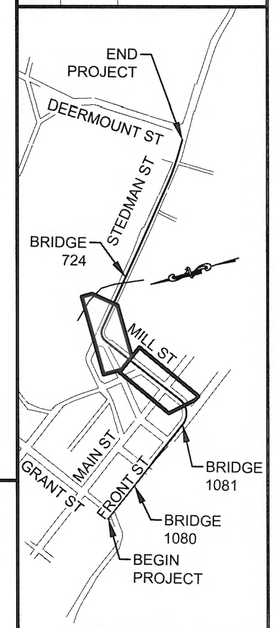

PLAN LEGEND

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

EROSION & SEDIMENT CONTROL PLAN

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
P2	140

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PE Date 1/27/20

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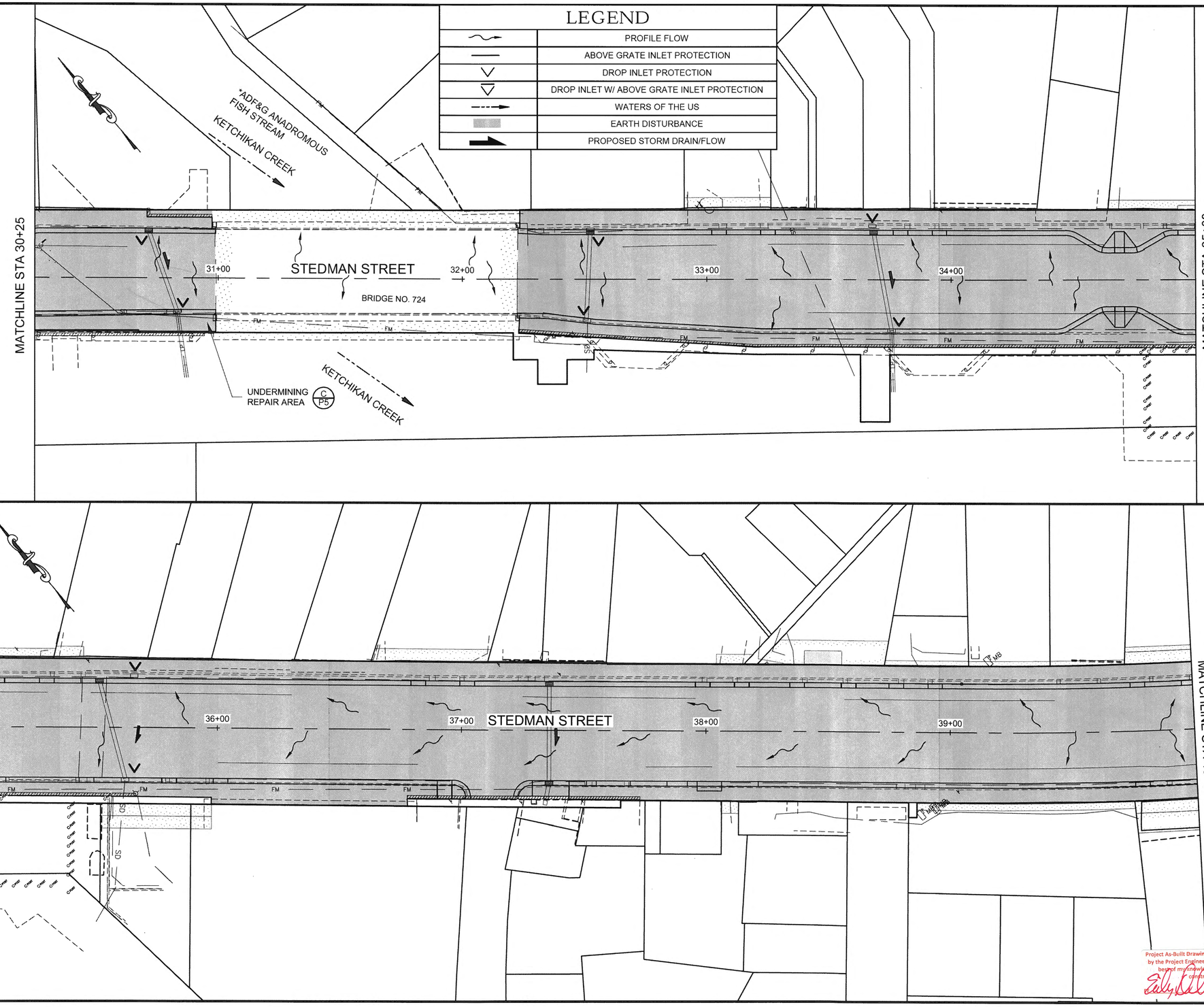

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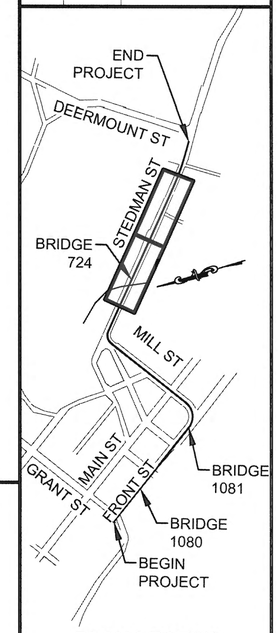

PLAN LEGEND

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

EROSION & SEDIMENT CONTROL PLAN

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	**2017**
SHEET NUMBER	TOTAL SHEETS
P3	**140**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/27/20

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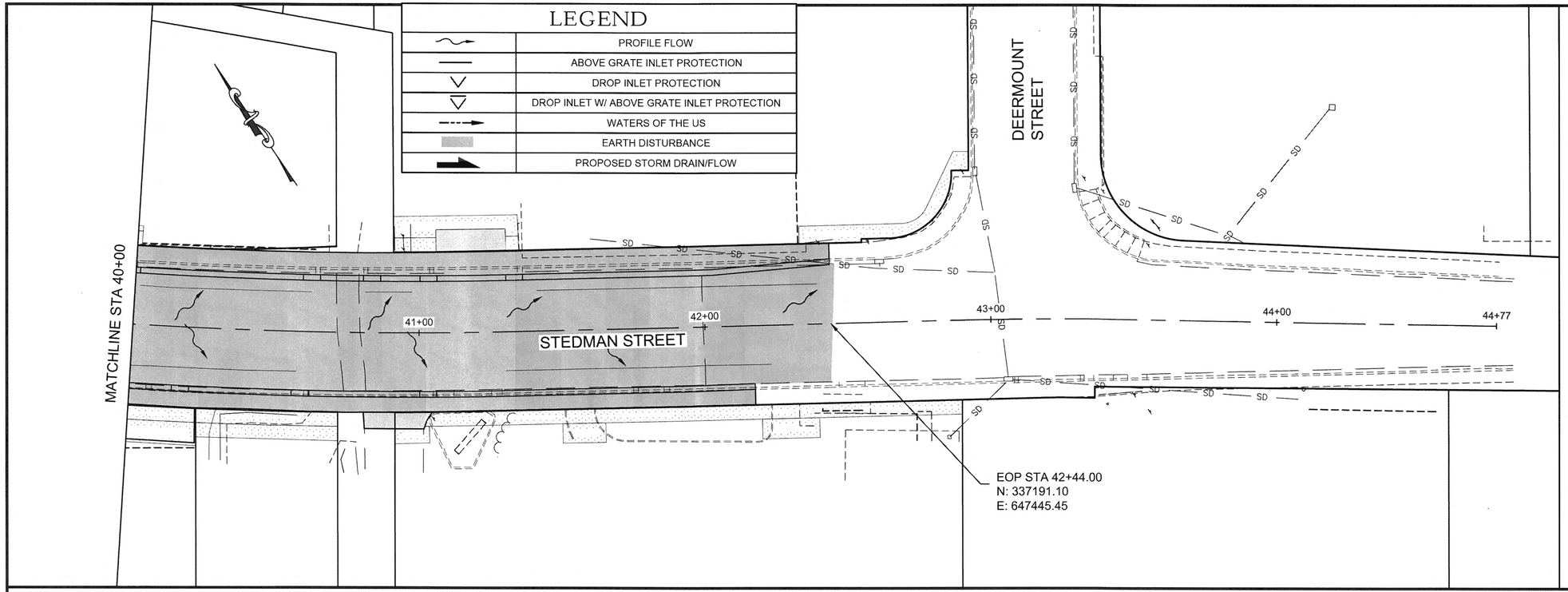

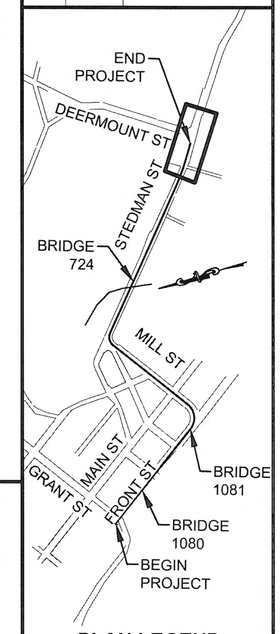

PLAN LEGEND

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No.	DATE	DESCRIPTION

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DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

EROSION & SEDIMENT CONTROL PLAN

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	**2017**
SHEET NUMBER	TOTAL SHEETS
P4	**140**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By Date 11/27/20

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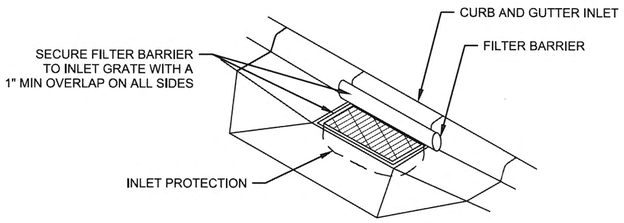
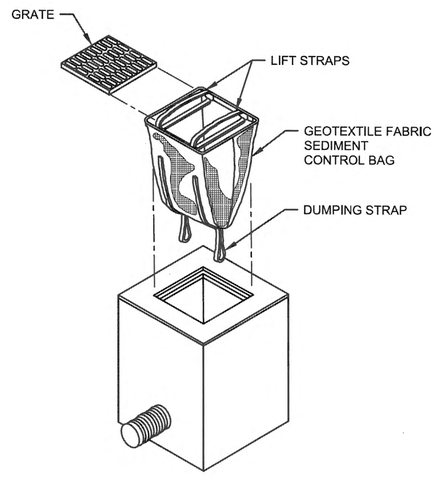


A/P5 ABOVE GRATE INLET PROTECTION DETAIL
NTS



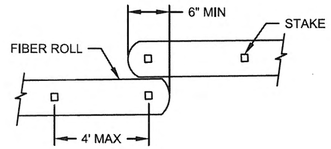
B/P5 DROP INLET PROTECTION DETAIL
NTS

INLET PROTECTION INSTALLATION AND MAINTENANCE:

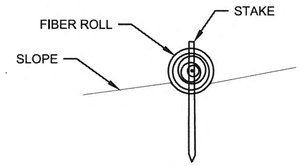
1) REMOVE SEDIMENT AND DEBRIS FROM SUMPS IN EXISTING CATCH BASINS/DROP INLETS.
2) INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENT; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE LIFT STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE SEDIMENT BAGS SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.
3) MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE SEDIMENT BAG. IF THE CONTAINMENT AREA IS MORE THAT 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION
4) INSTALL DROP INLET AND CURB PROTECTIONS AT LOCATIONS PRIOR TO REMOVAL AND EARTH DISTURBING ACTIVITIES.

NOTES:

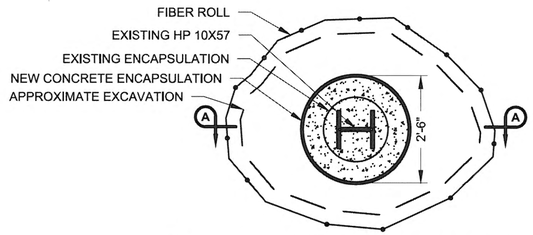
1) THE LOCATION AND LENGTH OF FIBER ROLLS IS DEPENDENT ON THE CONDITION OF THE SITE
2) LAP ADJACENT FIBER ROLLS TO PREVENT SEDIMENT BYPASS
3) ANCHOR AS NECESSARY TO FIRMLY SECURE FIBER ROLLS AND PROVIDE CONTINUOUS CONTACT WITH THE SURFACE ON WHICH IT IS INSTALLED



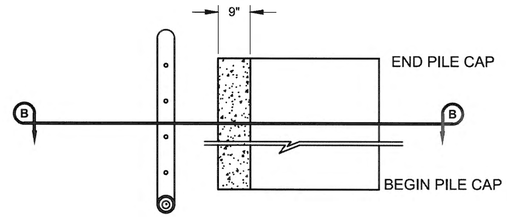
FIBER ROLL PLAN



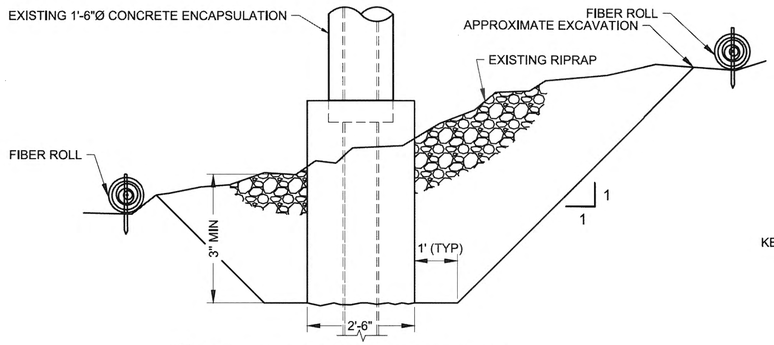
FIBER ROLL SECTION
NTS



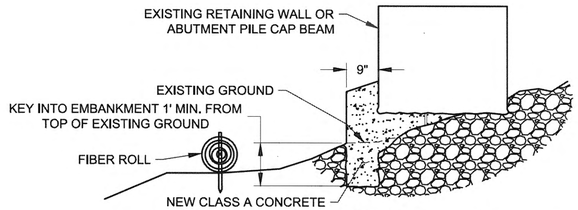
E/P5 PILE REPAIR AND PROTECTION PLAN



C/P5 UNDERMINING REPAIR LOCATIONS PLAN



F/P5 PILE REPAIR AND PROTECTION SECTION A-A



D/P5 UNDERMINING REPAIR LOCATIONS SECTION B-B

SHOWN AT BRIDGE #1081 ABUTMENT 7. SIMILAR FOR SEAWALL SECTIONS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/17/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907 522-1707 VOICE
907 522-3404 FAX
WWW.RMCONSULT.COM
CERT. OF AUTH. NO.
AECC111

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000

EROSION & SEDIMENT CONTROL PLAN DETAILS

DRAFTED | CHECKED | DESIGNED | LAYOUT P5 | DATE 10/24/2017 13:52 | FILE Z:\project\1900.03 DOT_SE Ketchikan Mill Steedman NTP 4\Civil\ACAD\1900.03-ESCP.dwg

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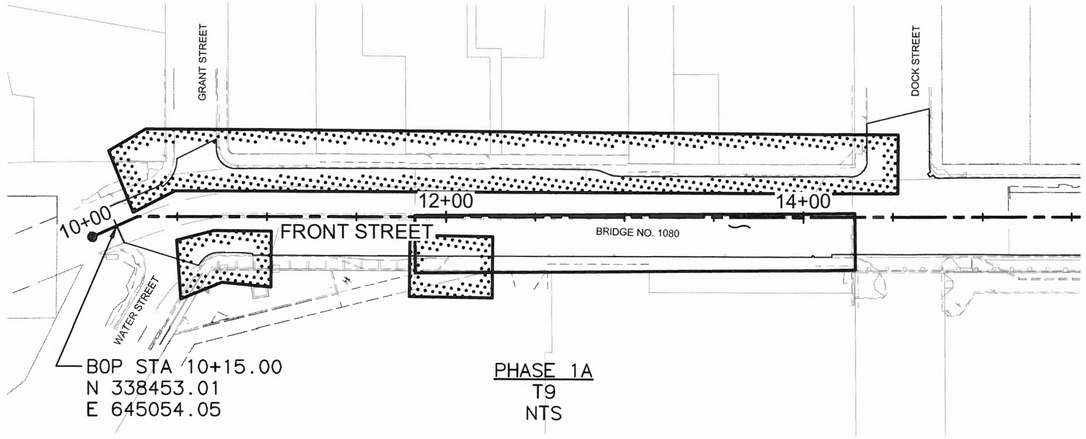

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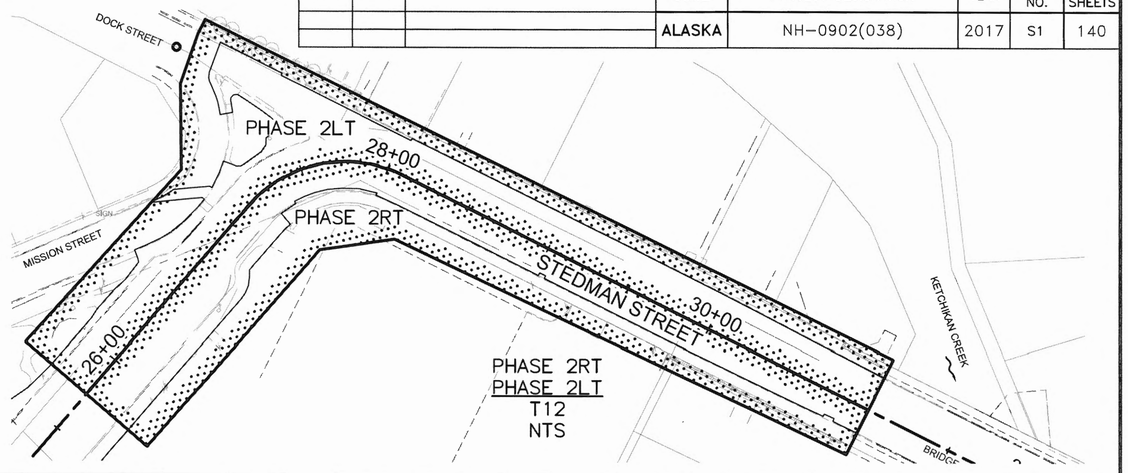

PHASE 2RT
PHASE 2LT
T12
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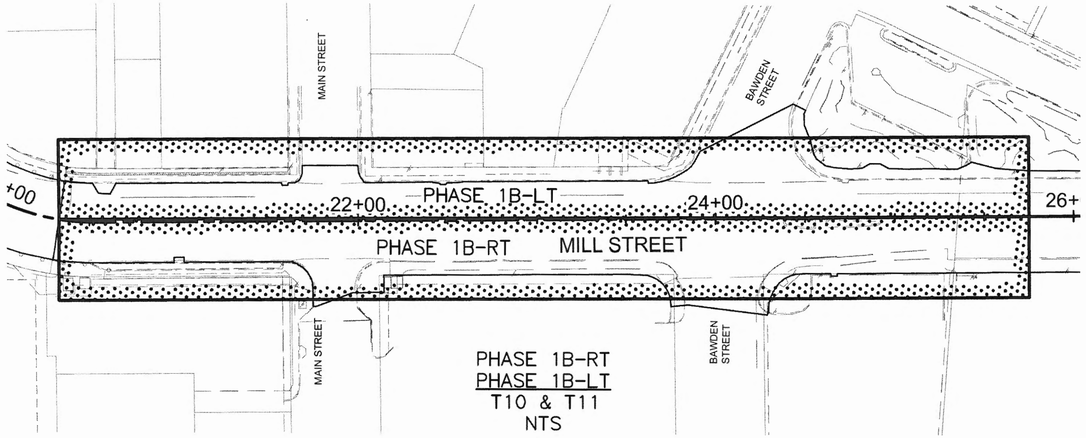
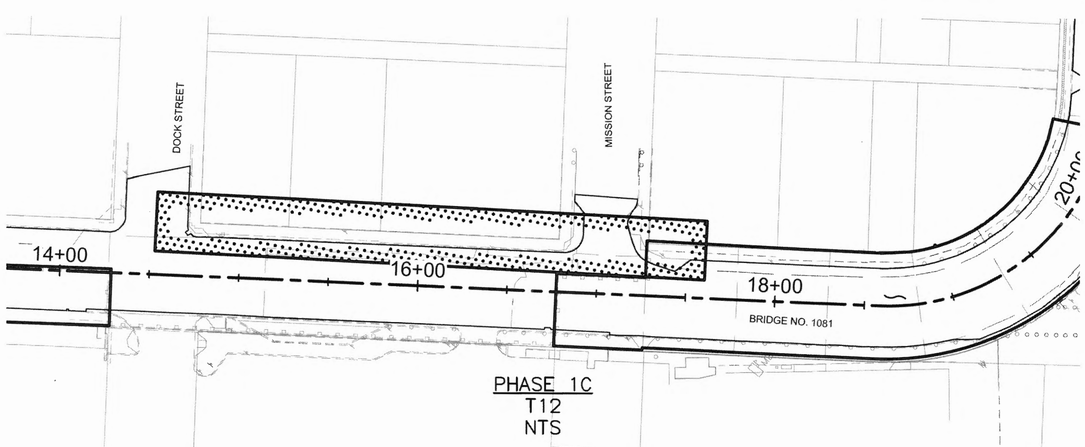
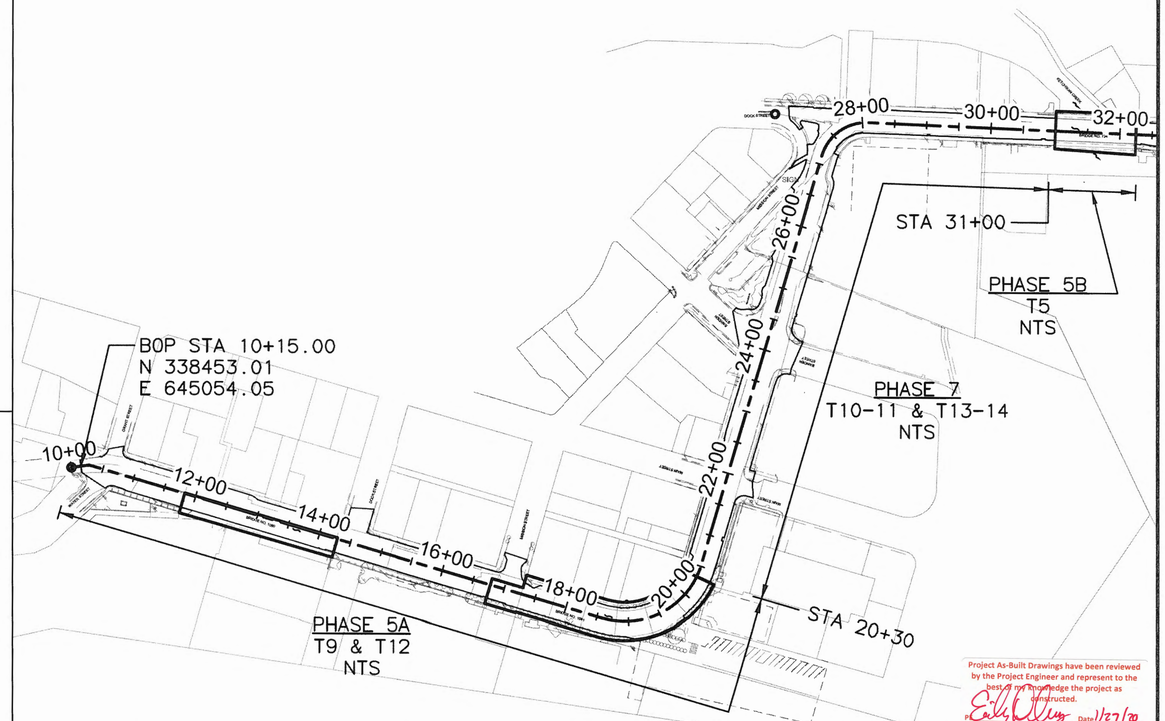


PHASE 1B-RT
PHASE 1B-LT
T10 & T11
NTS



PHASE 1C
T12
NTS



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By: Date: 1/27/20

NOTES:

1. T# REFERS TO SPECIFIC TRAFFIC CONTROL SHEET(S).

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
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STATE OF ALASKA
49TH
Lance W. DeBernardi
No. CE 9632
REGISTERED PROFESSIONAL ENGINEER
9/19/17

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99811
(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000
CONSTRUCTION PHASING AND TRAFFIC CONTROL SHEET REFERENCE

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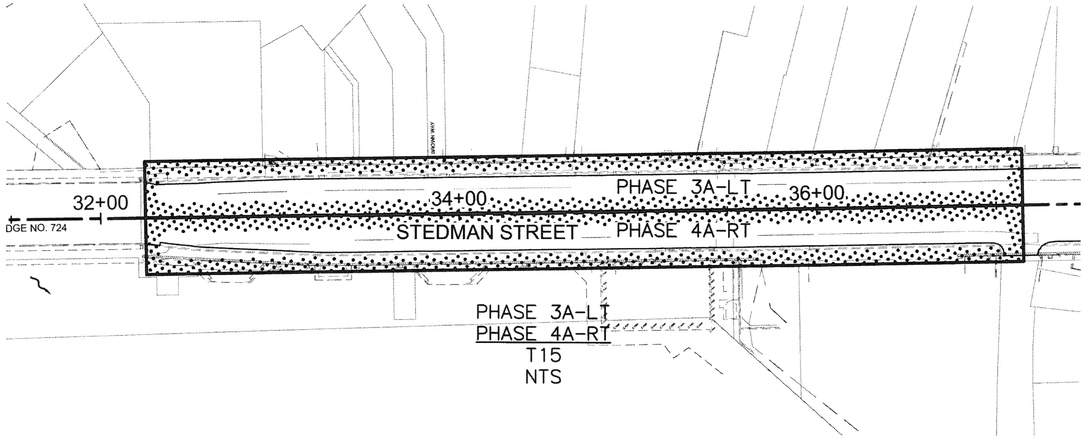
CHECKED:
DRAFTED:

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	S2	140



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PHASE 4A-RT
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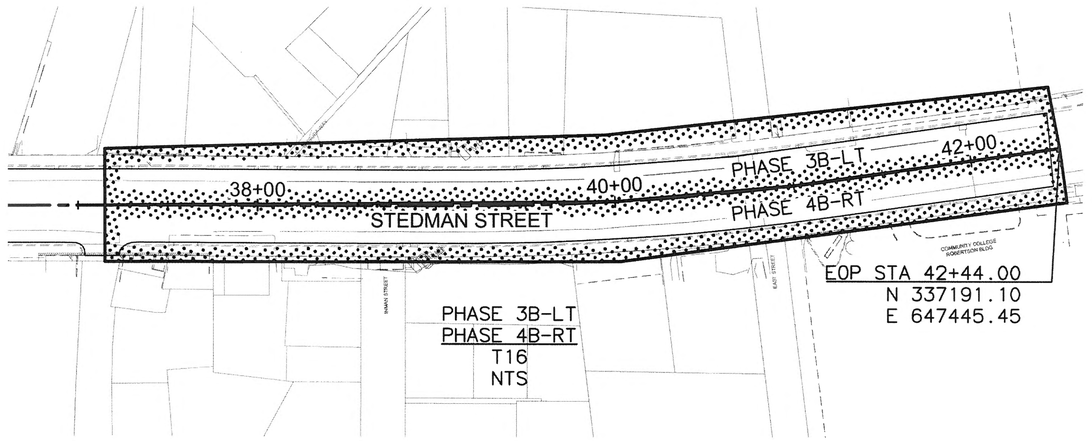

PHASE 3B-LT
PHASE 4B-RT
T16
NTS

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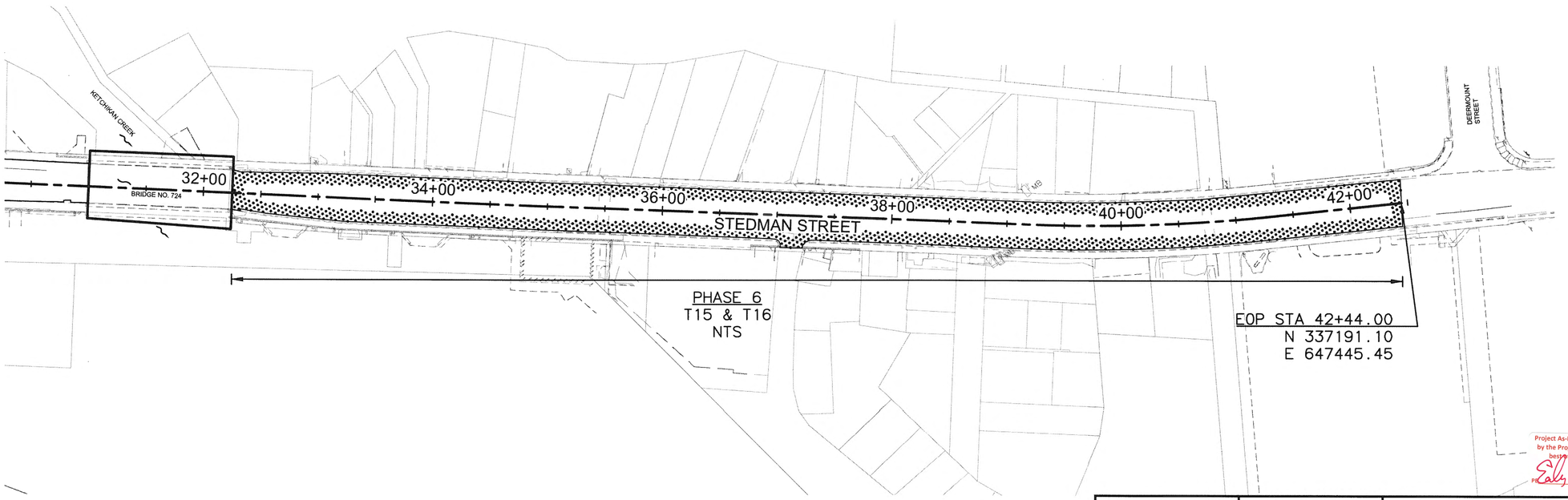

PHASE 6
T15 & T16
NTS

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N 337191.10
E 647445.45

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/27/20

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STATE OF ALASKA
49TH
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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000
CONSTRUCTION PHASING AND TRAFFIC CONTROL SHEET REFERENCE

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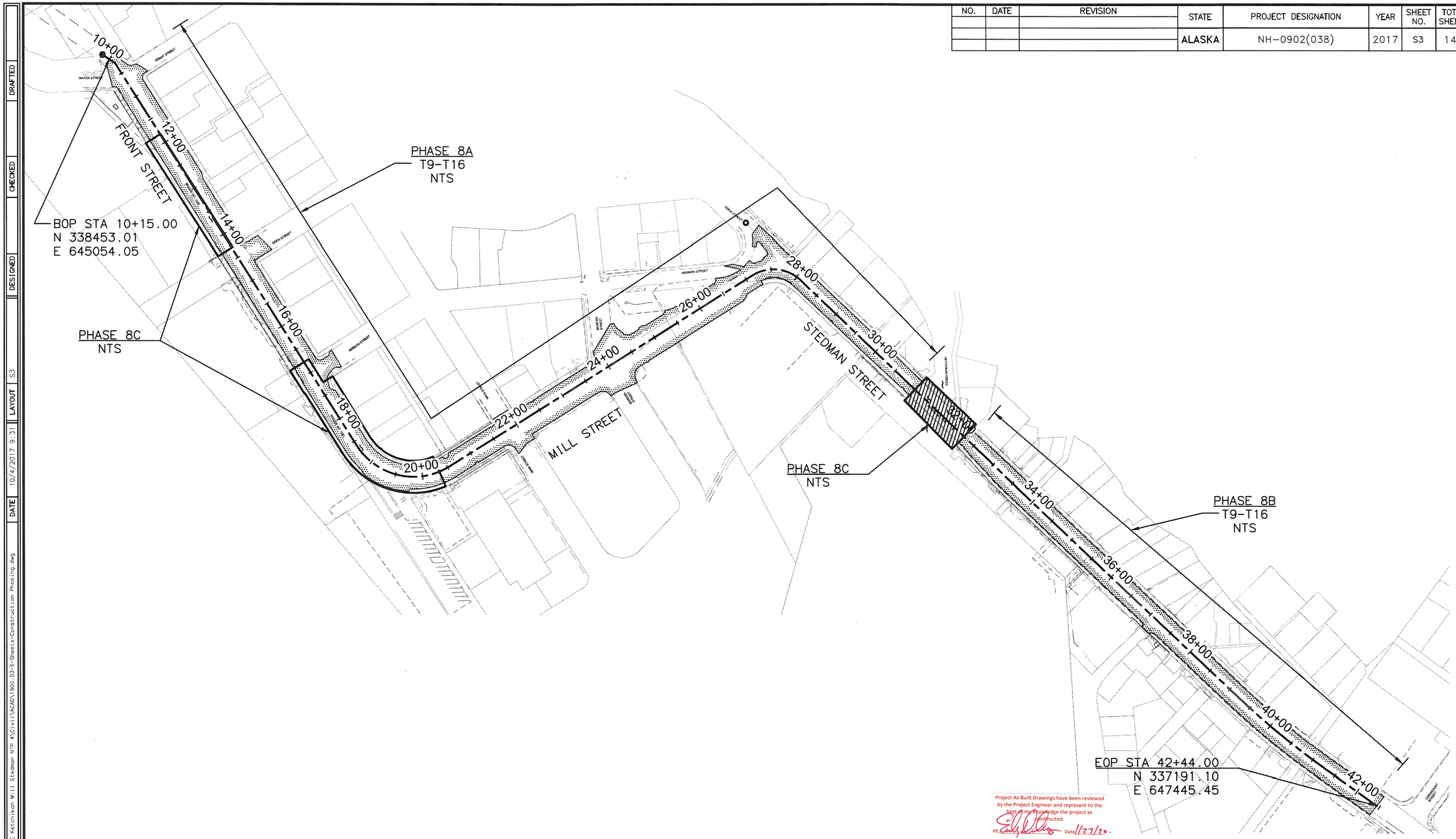
LAYOUT: S2
DESIGNED
CHECKED
DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	S3	140



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1/27/20

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PROJECT #Z68160000
CONSTRUCTION PHASING AND TRAFFIC CONTROL SHEET REFERENCE

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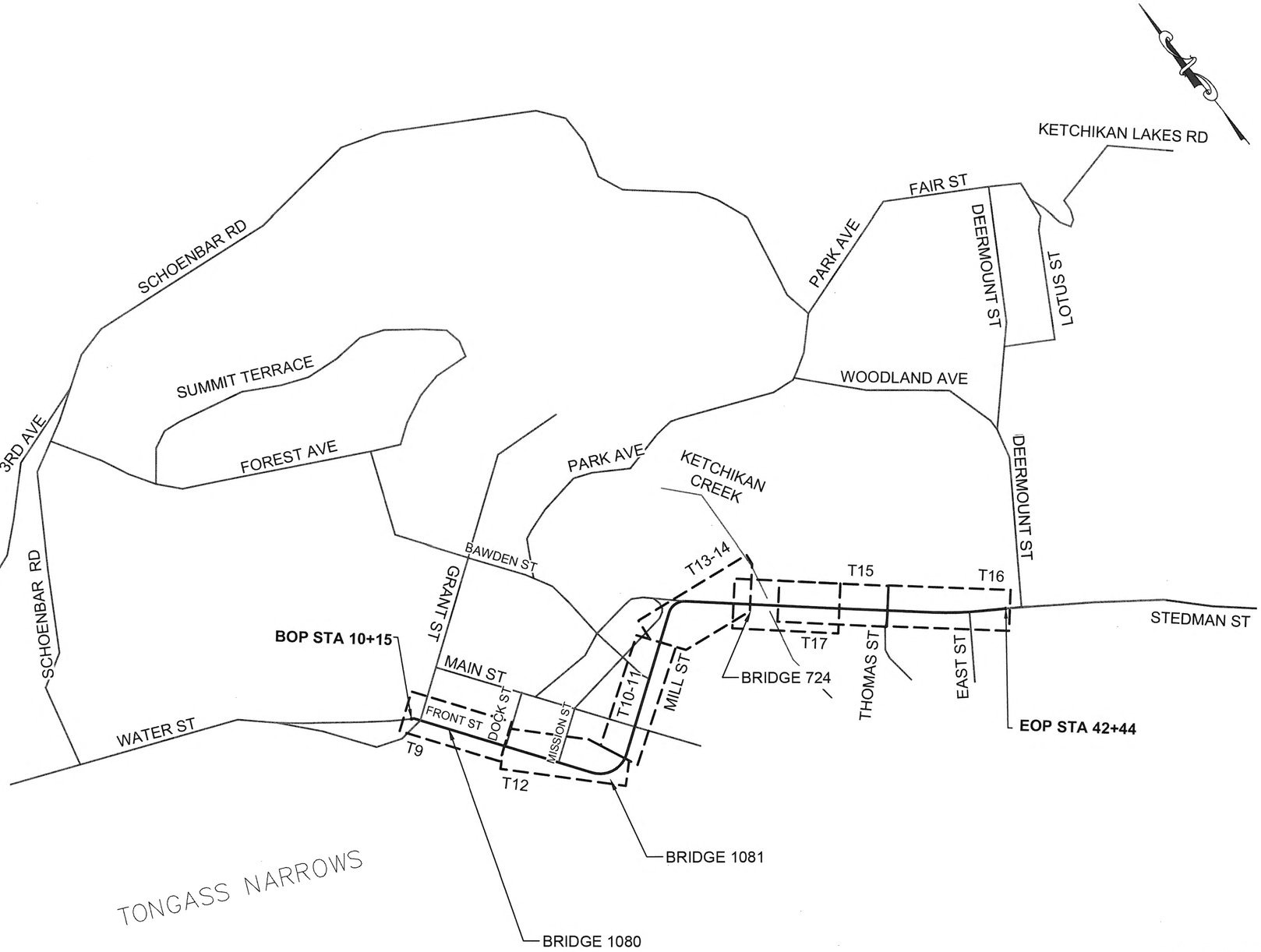

TRAFFIC CONTROL NOTES:

1. SEE SECTION 643-3.08 FOR LIMITATIONS ON TRAFFIC RESTRICTIONS.
2. USE TYPE II BARRICADES AND R9 SERIES SIGNS TO CLOSE SIDEWALKS AND CROSSWALKS.
3. MAXIMUM DEVICE SPACING FOR CLOSED PARKING, TURN AND THROUGH LANES AND INTERSECTIONS = 5 FEET.
4. THE LENGTH OF WORK AREA SHALL BE MINIMIZED TO AVOID EXCESSIVE TRAFFIC DELAYS AS DIRECTED BY THE ENGINEER.

LEGEND

DESCRIPTION	SYMBOL
ON-STREET PARKING (APPROXIMATE)	
SIGN	
TYPE II BARRICADE	
TYPE III BARRICADE	
CHANNELING DEVICE	
TCP DIRECTION OF TRAFFIC	
EXISTING DIRECTION OF TRAFFIC	
WORK AREA	
PEDESTRIAN ACCESS ROUTE (DETOUR AND TEMPORARY)	
PARKING LANE	P.L.
TRAFFIC LANE	T.L.
PLASTIC SAFETY FENCE OR PORTABLE CHAIN LINK FENCE	
PEDESTRIAN BARRIER	

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By [signature] Date 1/27/20

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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(907) 465-1763

KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000
TRAFFIC CONTROL, LEGEND, AND GENERAL NOTES

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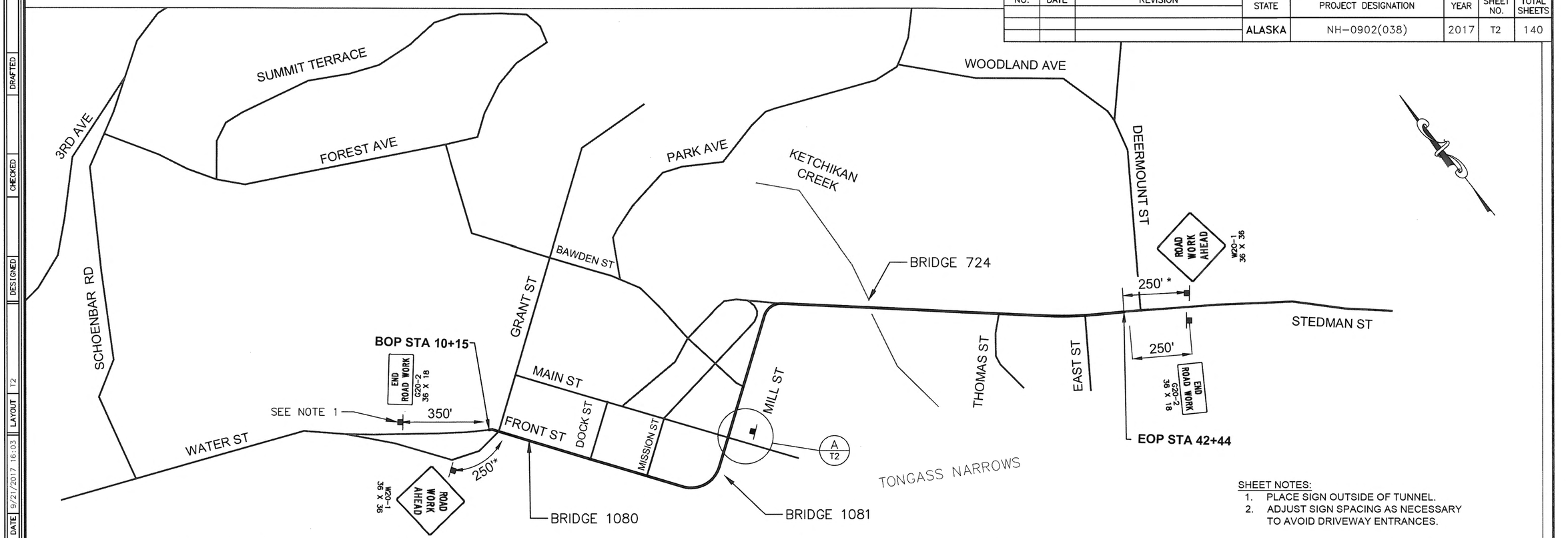
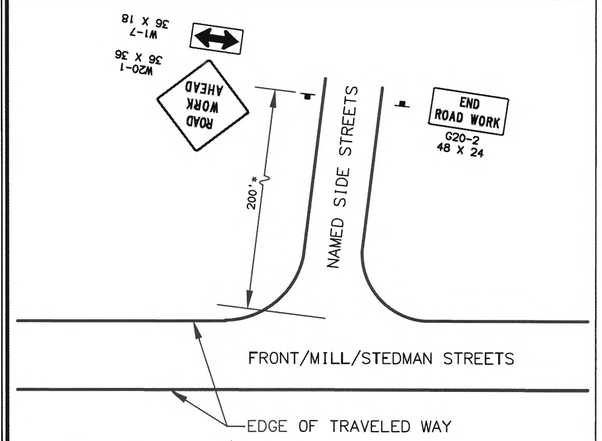


SHEET NOTES:
1. PLACE SIGN OUTSIDE OF TUNNEL.
2. ADJUST SIGN SPACING AS NECESSARY TO AVOID DRIVEWAY ENTRANCES.



A T2 TYPICAL PERMANENT SIDE STREET CONSTRUCTION SIGNING

GRANT ST
DOCK ST
MISSION ST
MAIN ST
BAWDEN ST
THOMAS ST
EAST ST
DEERMOUNT ST

TCP TABLE SETUP

	MIN MERGING TAPER LENGTH (L) IN FEET WIDTH OF OFFSET (W) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE
SPEED (MPH)	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	(FT)
25 OR BELOW	105	115	125	6	6	6	25*	50*	155

* WHEN CLOSING ON STREET PARKING MAXIMUM DEVICE SPACING ON TAPERS AND TANGENTS SHALL BE 5 FEET.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By Zach Kelly Date 1/27/20

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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000
TRAFFIC CONTROL PLAN
PERMANENT CONSTRUCTION SIGNING

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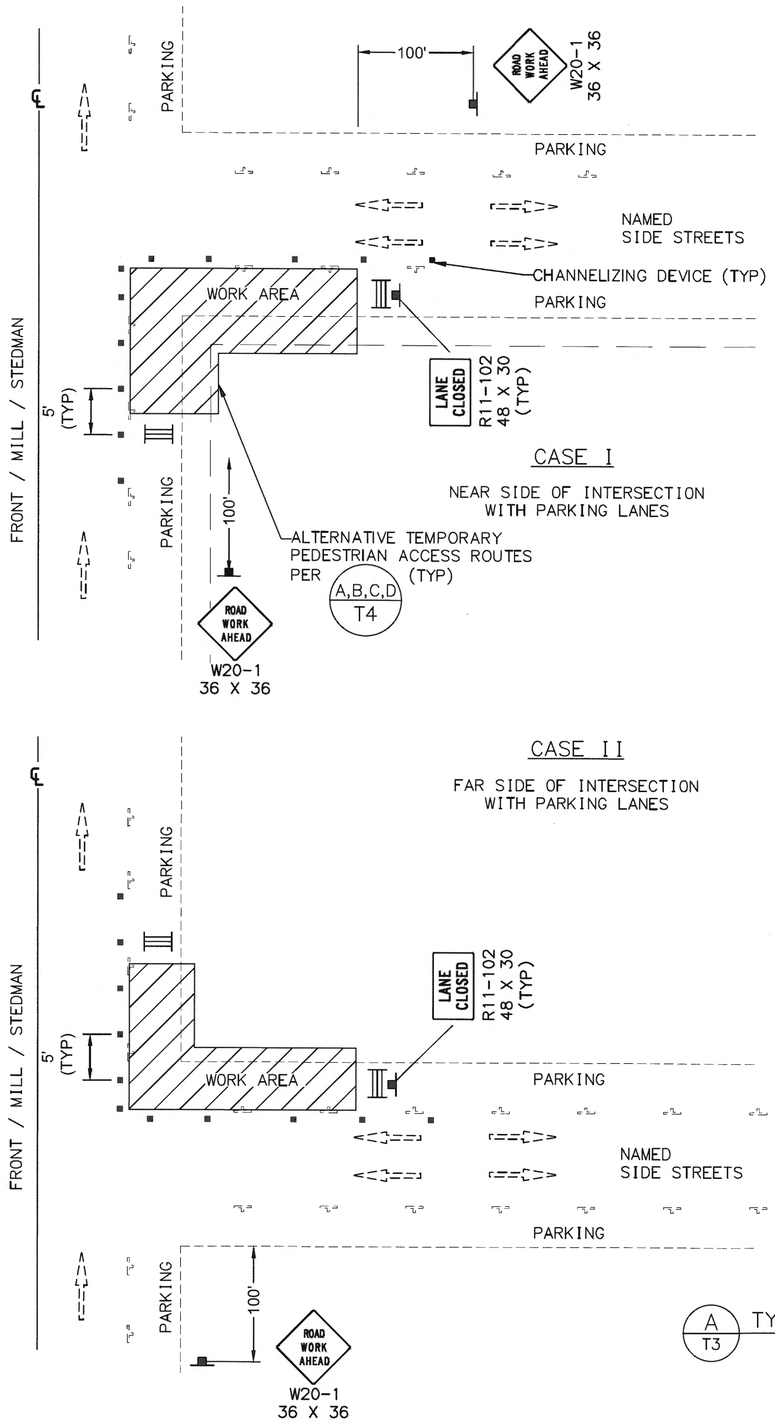
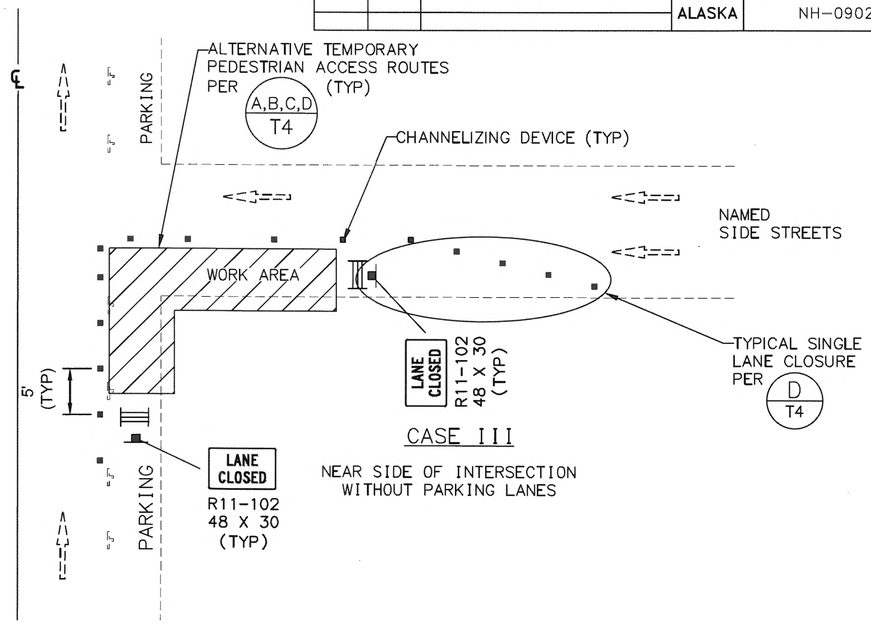


CASE I

NEAR SIDE OF INTERSECTION
WITH PARKING LANES

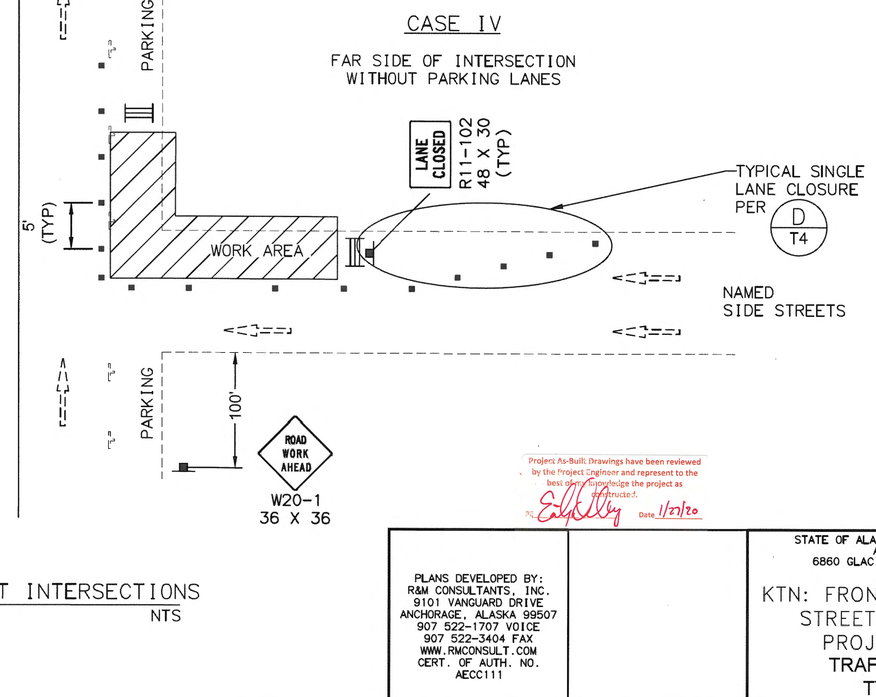


CASE III

NEAR SIDE OF INTERSECTION
WITHOUT PARKING LANES

CASE II

FAR SIDE OF INTERSECTION
WITH PARKING LANES



CASE IV

FAR SIDE OF INTERSECTION
WITHOUT PARKING LANES

A/T3 TYPICAL WORK AREAS AT INTERSECTIONS

NTS

Project As-Built: Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Eric Kelley Date 1/21/20

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KTN: FRONT, MILL AND STEDMAN
STREETS RECONSTRUCTION
PROJECT #Z68160000
TRAFFIC CONTROL PLAN
TYPICAL DETAILS

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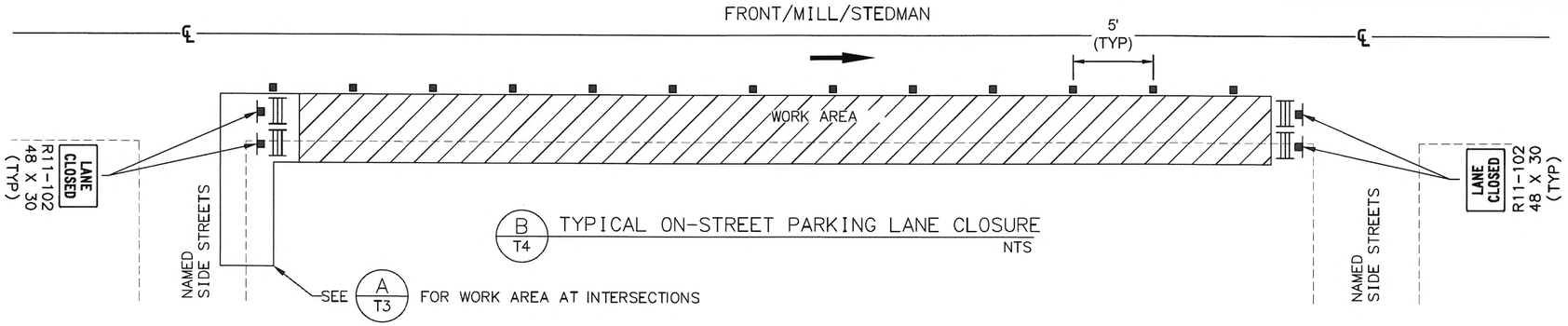
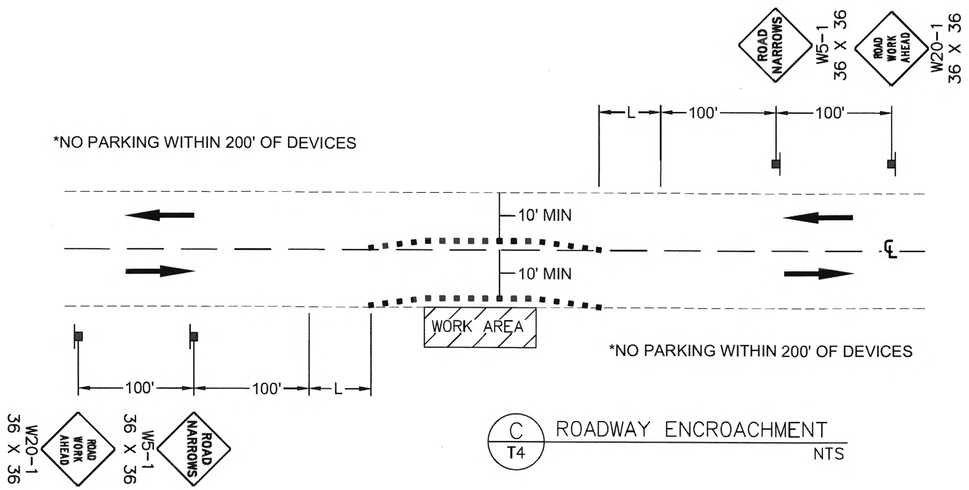
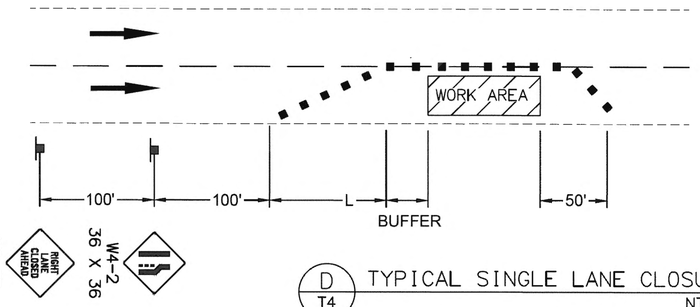


B/T4 TYPICAL ON-STREET PARKING LANE CLOSURE
NTS



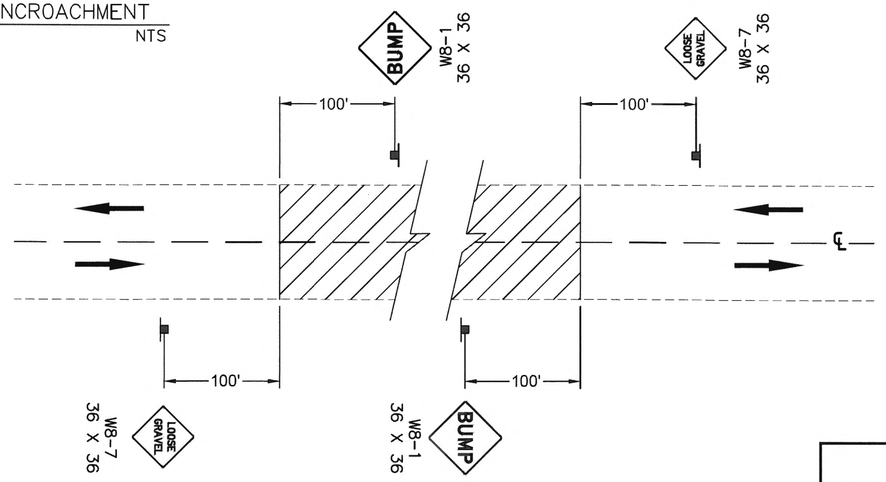
C/T4 ROADWAY ENCROACHMENT
NTS



D/T4 TYPICAL SINGLE LANE CLOSURE
NTS

NOTES:

1. USE CW20-5 (LEFT) AND CW4-2R WHEN CLOSING LEFT LANES.
2. ATTACH ONE R11-2 (48X30) TO EACH TYPE III BARRICADE.
3. IF ONLY ONE LANE IS AFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.



G/T4 SIGNING FOR UNPAVED AREA
NTS

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PE Eily Kelly Date 1/22/20

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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000
TRAFFIC CONTROL PLAN
TYPICAL DETAILS

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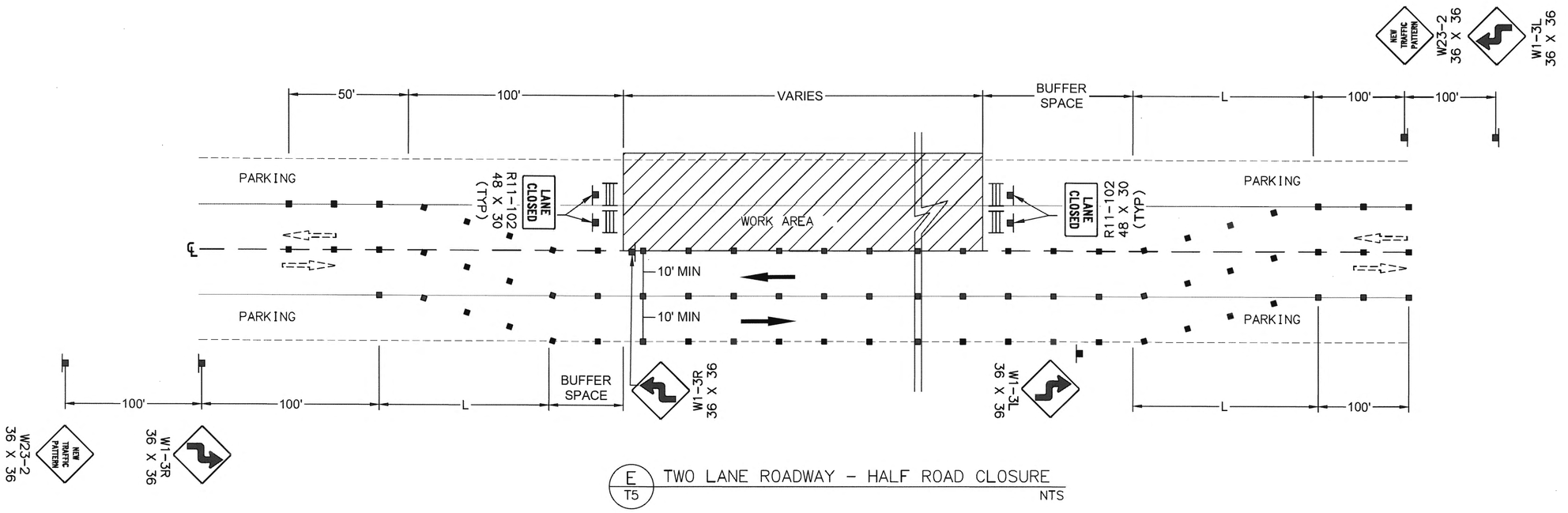
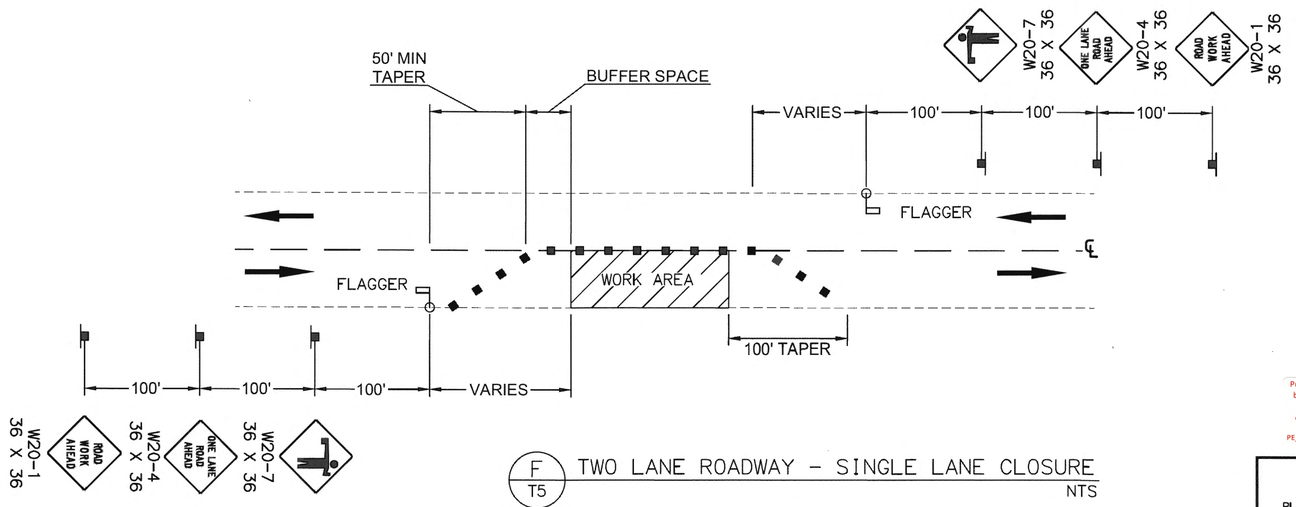


E T5 TWO LANE ROADWAY - HALF ROAD CLOSURE

NTS



F T5 TWO LANE ROADWAY - SINGLE LANE CLOSURE

NTS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE _____ Date 1/27/20

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PROJECT #Z68160000
TRAFFIC CONTROL PLAN
TYPICAL DETAILS

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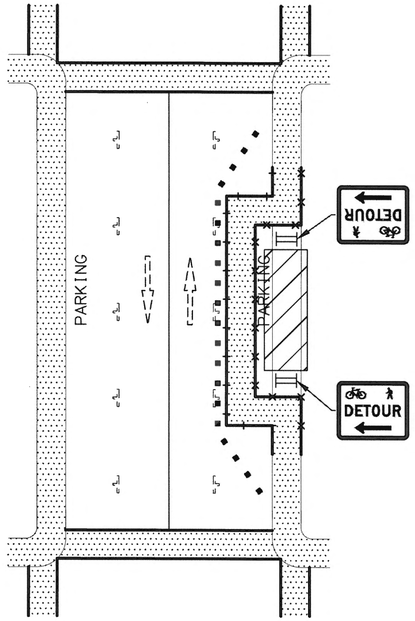
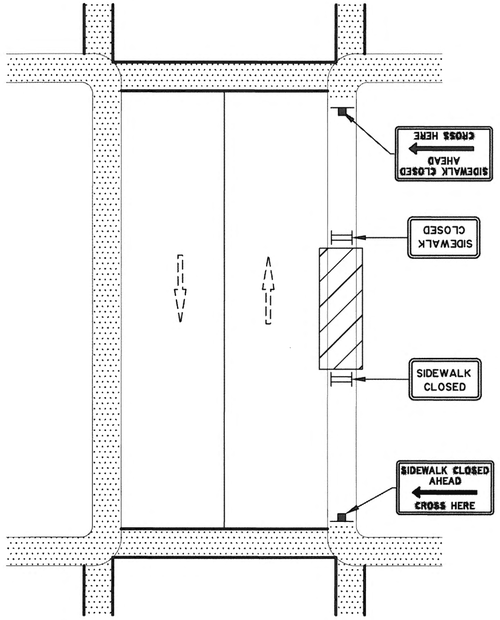
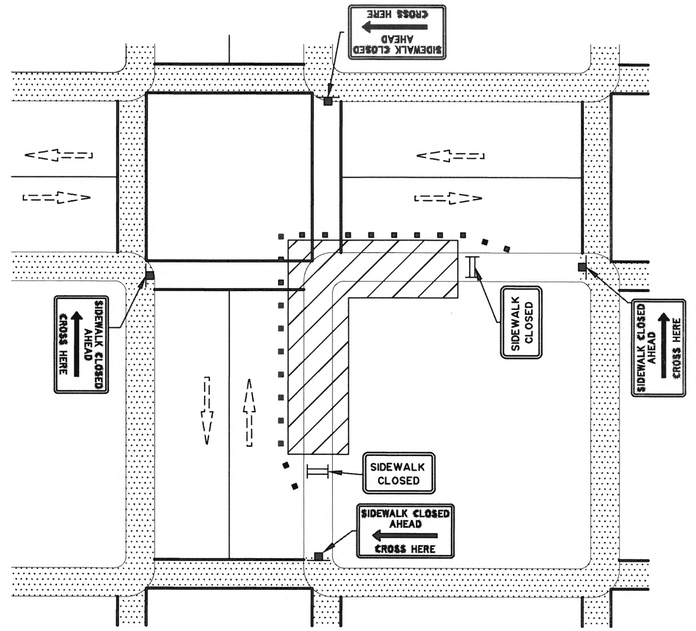
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH-0902(038)	2017	T6	140



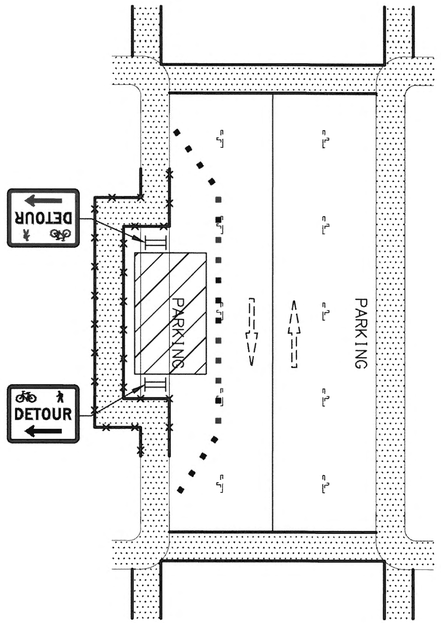
A T6 MID-BLOCK SIDEWALK CLOSURE WITH PARKING LANE NTS



B T6 MID-BLOCK SIDEWALK CLOSURE WITH DETOUR TO THE OTHER SIDE NTS



C T6 CORNER SIDEWALK CLOSURE WITH DETOUR TO THE OTHER SIDE NTS



D T6 SIDEWALK DIVERSION NTS

GENERAL NOTES:

1. ROUTE PEDESTRIAN TRAFFIC AROUND AREAS WHEN CONSTRUCTION ACTIVITIES ENCROACH ON THE SIDEWALK FOR MORE THAN 60 MINUTES USING THE DEVICES AND CONCEPTS SHOWN ON THIS SHEET. USE PROJECT SPECIFIC PEDESTRIAN ROUTING DESIGNS IN CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN FOR SCENARIOS NOT DESCRIBED ON THIS SHEET.
2. LIMIT WORK AT INTERSECTIONS TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.
3. WHEN CONSTRUCTION ACTIVITIES INVOLVE SIDEWALKS ON BOTH SIDES OF THE STREET, PHASE THE CONSTRUCTION SO THAT ONE SIDEWALK IS IN SERVICE AT ALL TIMES. IF THIS IS NOT FEASIBLE AND BOTH SIDEWALKS MUST BE CLOSED, AS DETERMINED BY THE ENGINEER, PROVIDE A DETOUR TO GUIDE PEDESTRIANS AROUND THE WORK ZONE.
4. SEE SHEETS T2-T5 FOR SPACING OF TRAFFIC CONTROL DEVICES AND GENERAL TRAFFIC CONTROL REQUIREMENTS TO CONTROL VEHICULAR TRAFFIC.
5. PROVIDE A 5 FOOT WIDE TEMPORARY PEDESTRIAN FACILITY OR THE WIDTH OF THE FACILITY THAT EXISTED BEFORE CONSTRUCTION, WHICHEVER IS LESS. PROVIDE A 5 FOOT BY 5 FOOT PASSING SPACE FOR TEMPORARY PEDESTRIAN FACILITIES LESS THAN 5 FEET IN WIDTH AT INTERVALS NOT TO EXCEED 200 FEET.
6. TEMPORARY PEDESTRIAN FACILITY SURFACES AND RAMPS MUST BE STABLE, FIRM, SLIP RESISTANT AND KEPT FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT AND STORED MATERIALS.
7. PROVIDE PEDESTRIAN BARRIER AND WORK AREA SEPARATION DEVICES PER TEMPORARY PEDESTRIAN FACILITY TYPICAL SECTION.
8. PLACE TYPE II BARRICADE ACROSS THE FULL WIDTH OF THE CLOSED SIDEWALK.
9. WHEN PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY THE CURRENT TRAFFIC CONTROL PLAN ARE NOT IN PLACE OR ARE TEMPORARILY REMOVED, PROVIDE A WORKER TO DIRECT PEDESTRIANS THROUGH THE WORK AREA.
10. REMOVE TEMPORARY PEDESTRIAN FACILITIES IMMEDIATELY AFTER REOPENING THE SIDEWALK.
11. COVER OR DEACTIVATE PEDESTRIAN TRAFFIC SIGNAL DISPLAY(S) CONTROLLING CLOSED CROSSWALKS.
12. POST MOUNTED SIGNS LOCATED NEAR OR ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.
13. FOR NIGHTTIME CLOSURE USE TYPE A LOW INTENSITY FLASHING WARNING LIGHTS ON BARRICADES AND SUPPORTING SIGNS FOR SIDEWALK CLOSURES. USE TYPE C STEADY BURN WARNING LIGHTS ON PEDESTRIAN BARRIER SEPARATING THE TEMPORARY PEDESTRIAN FACILITY FROM THE VEHICLE TRAFFIC.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 11/27/20

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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000
TRAFFIC CONTROL PLAN TEMPORARY PEDESTRIAN ACCESS ROUTES

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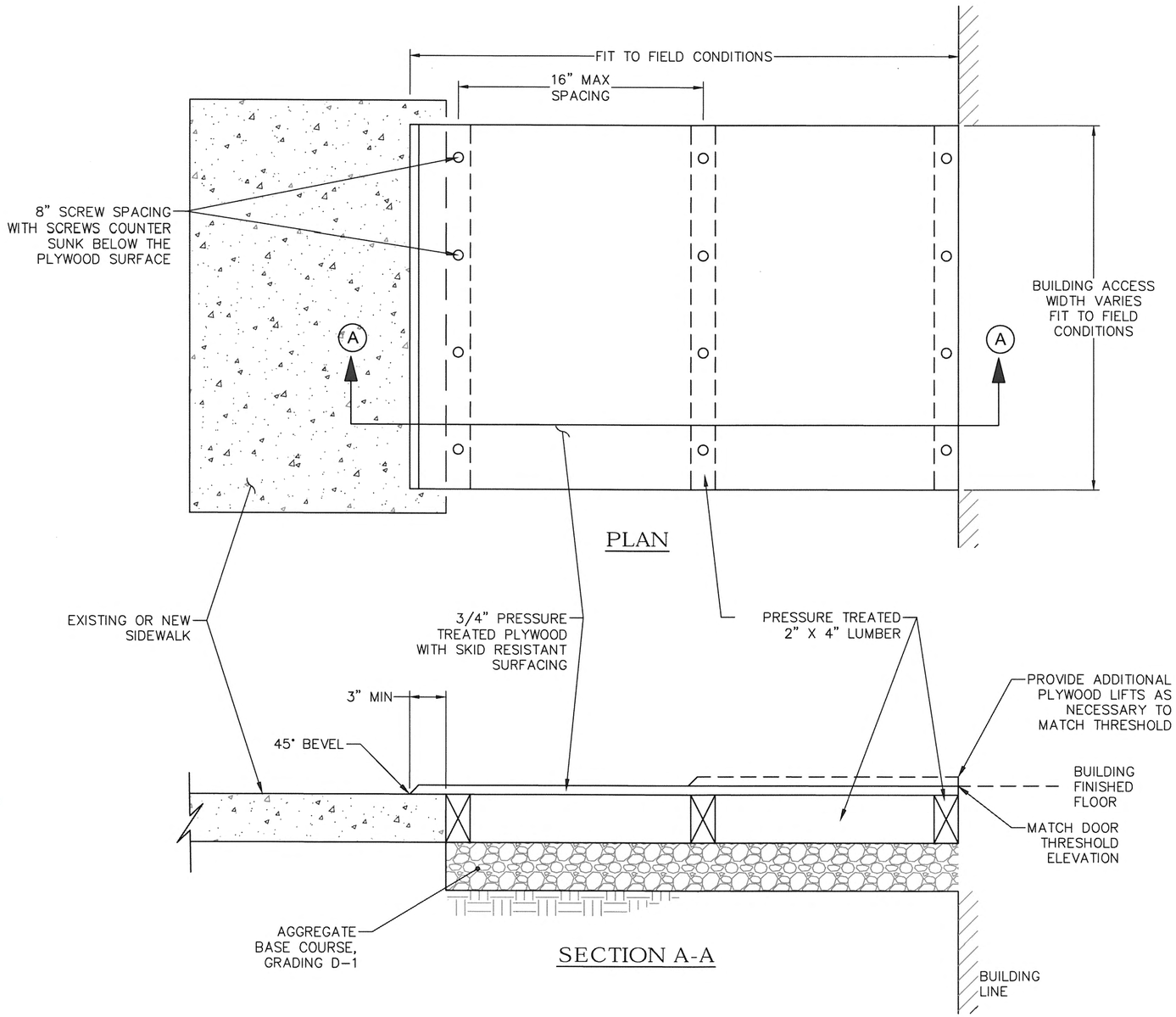
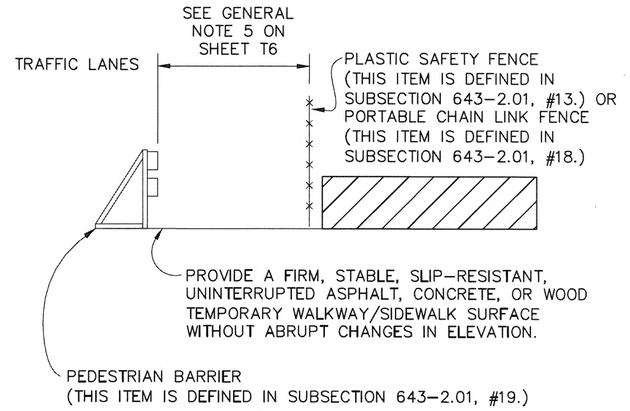


PLYWOOD TEMPORARY BUILDING ACCESS



TEMPORARY PEDESTRIAN FACILITY TYPICAL SECTION

GENERAL NOTES:

1. ALTERNATE WORK BETWEEN LEFT AND RIGHT SIDES OF BUILDING ACCESS SO THAT ONE SIDEWALK REMAINS IN SERVICE AT ALL TIMES.
2. THE PUBLIC INFORMATION COORDINATOR SHALL NOTIFY STAKEHOLDERS A MINIMUM OF 48 HOURS PRIOR TO PERFORMING WORK THAT WILL IMPACT ACCESS.
3. A GENERAL CONSTRUCTION SEQUENCING WILL BE:
   A. TEMPORARILY CLOSE SIDEWALK AND BUILDING ACCESS.
   B. REMOVE EXISTING SIDEWALK.
   C. PLACE PLYWOOD TEMPORARY WALKWAY AND BUILDING ACCESS.
   D. RE-OPEN SIDEWALK AND BUILDING ACCESS.
   E. DURING THE AGREED UPON SCHEDULE FOR NEW CONSTRUCTION, CLOSE SIDEWALK, REMOVE PLYWOOD TEMPORARY WALKWAY AND BUILDING ACCESS, PREPARE SIDEWALK SUBGRADE AND PLACE NEW SIDEWALK.
   F. RE-OPEN SIDEWALK AND BUILDING ACCESS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Sellers Date 1/27/20

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PROJECT #Z68160000
TRAFFIC CONTROL PLAN
TEMPORARY BUILDING ACCESS

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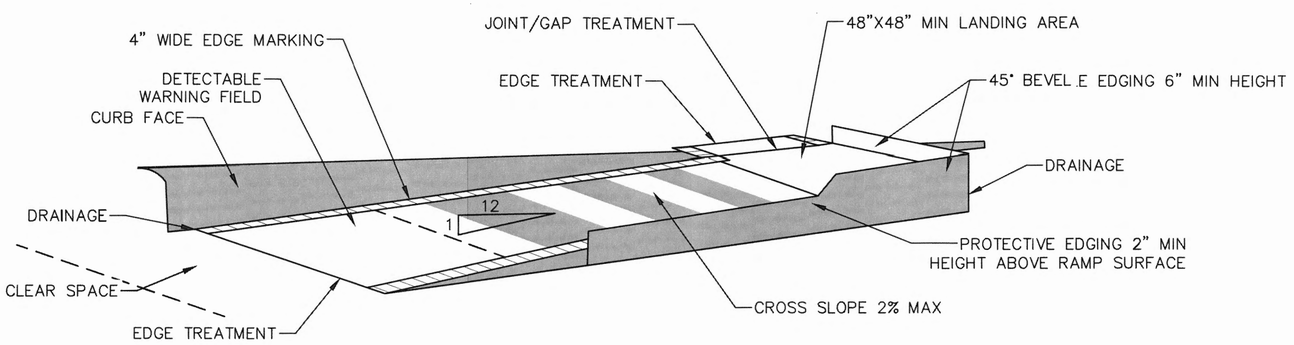
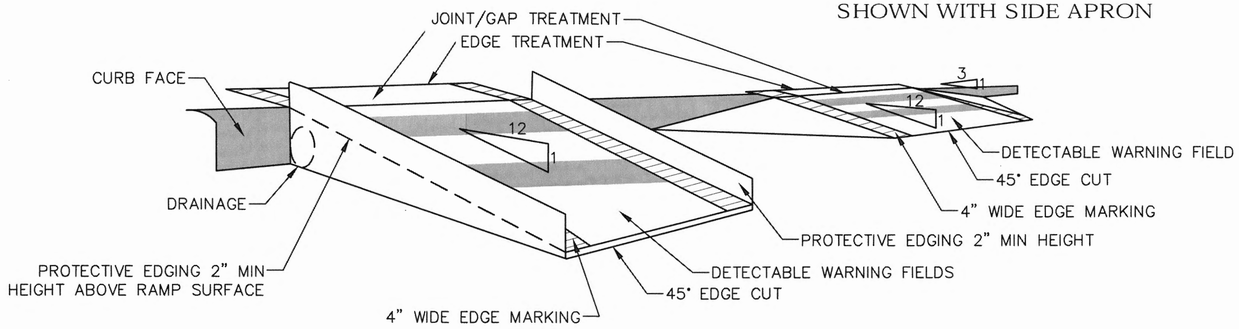


TEMPORARY CURB RAMP
PARELLEL TO CURB

GENERAL NOTES:

1. CURB RAMPS SHALL BE 48" MIN WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
2. PROTECTIVE EDGING WITH A 2" MIN HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTIONS (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX CROSS-SLOPE.
5. CLEAR SPACE OF 48"X48" MIN SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN $\frac{1}{2}$" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$". LATERAL EDGES SHALL BE VERTICAL UP TO $\frac{1}{4}$" HIGH, AND BEVELED AT 1:2 BETWEEN 1/" AND $\frac{1}{2}$".
10. TEMPORARY RAMP SHALL BE 5' WIDE MIN.

SHOWN WITH SIDE APRON



SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP
PERPENDICULAR TO CURB

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
By Eily Daly Date 1/27/20

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KTN: FRONT, MILL AND STEDMAN STREETS RECONSTRUCTION
PROJECT #Z68160000
TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATIONS

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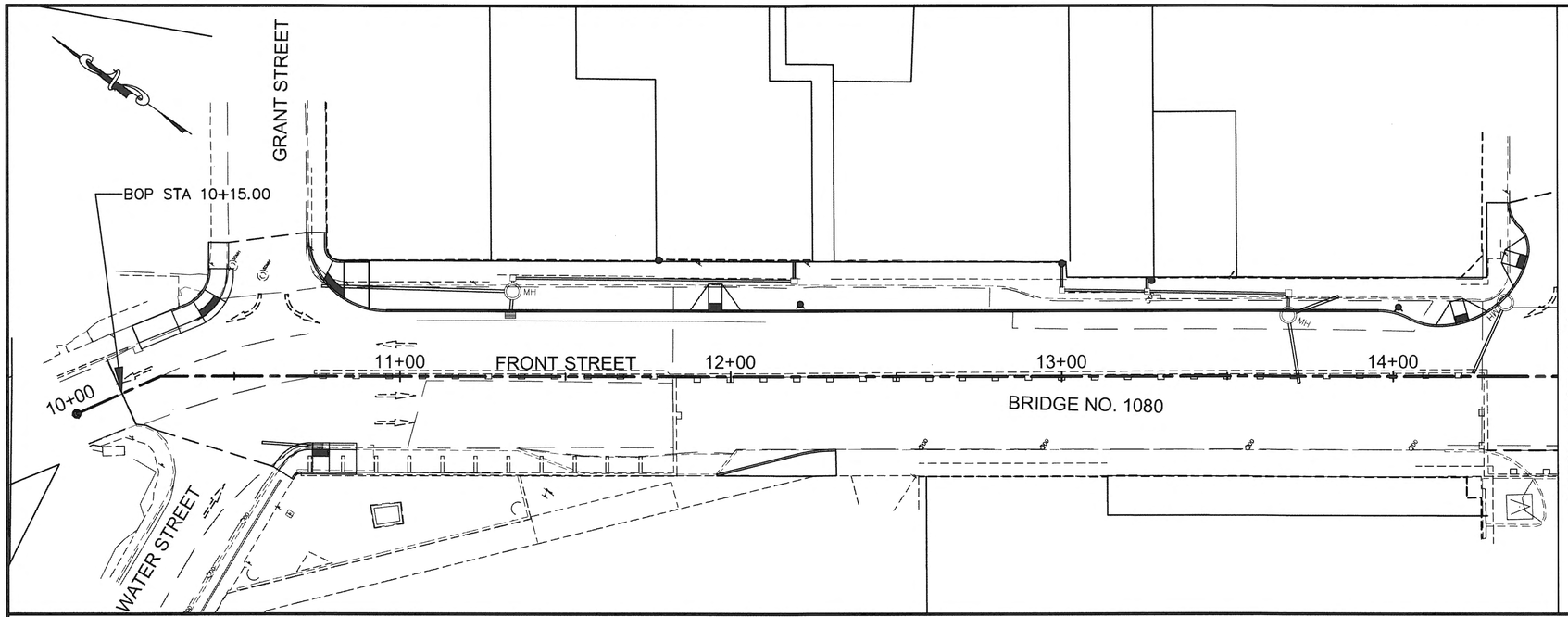

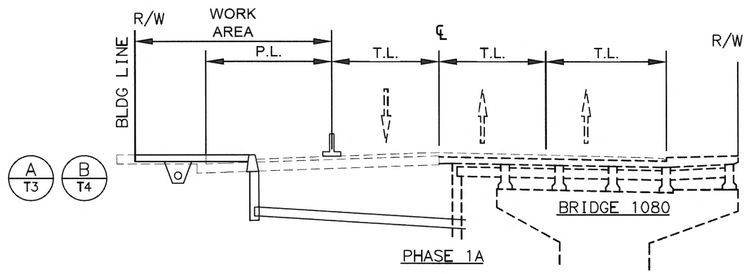

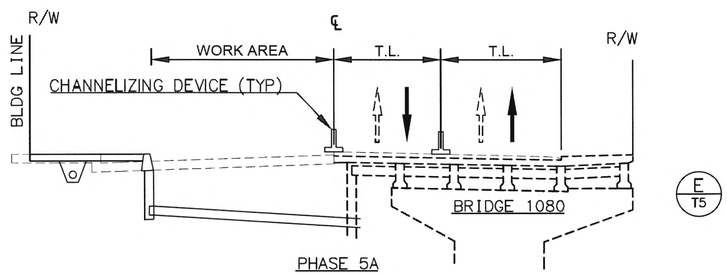

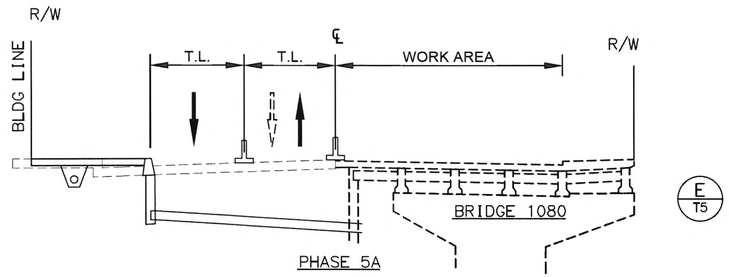

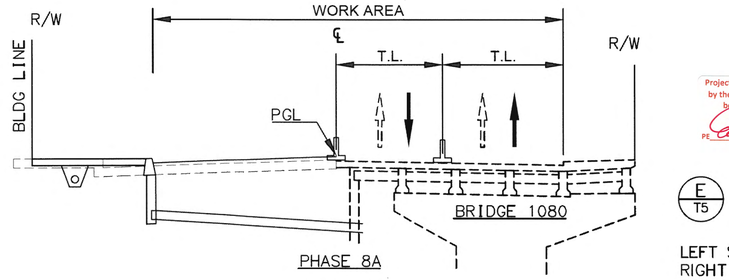

LEFT SIDE IS SHOWN
RIGHT SIDE IS MIRRORED
FOR FINAL PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Emily Miller Date 11/27/20

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

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ATTACHMENT NUMBER

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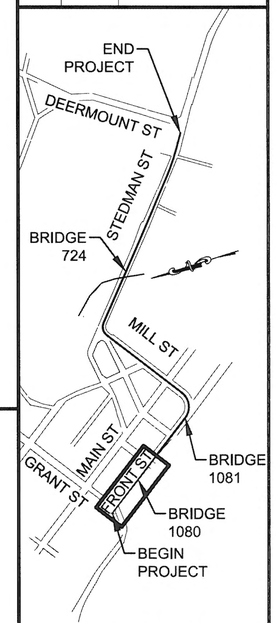


PLAN LEGEND

CHECKED BY:

DESIGNED BY:

DRAWN BY:

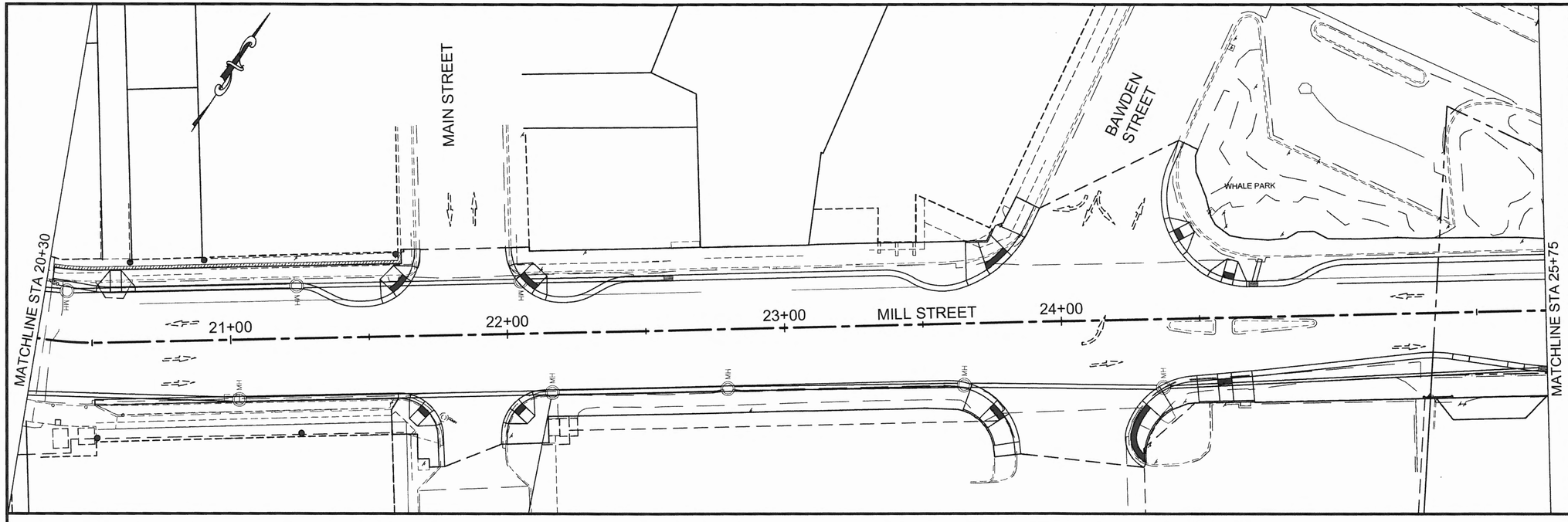
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

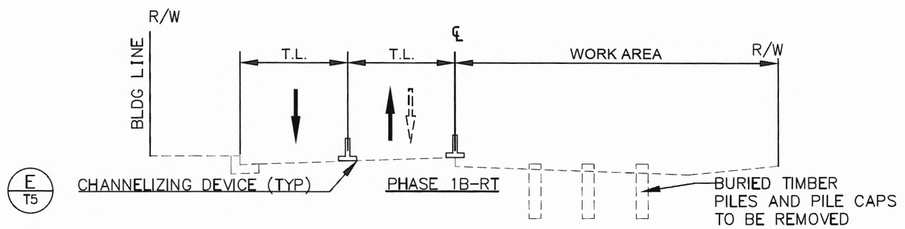
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

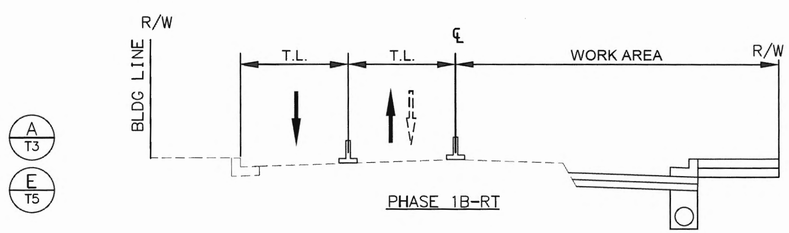
TRAFFIC CONTROL PLAN

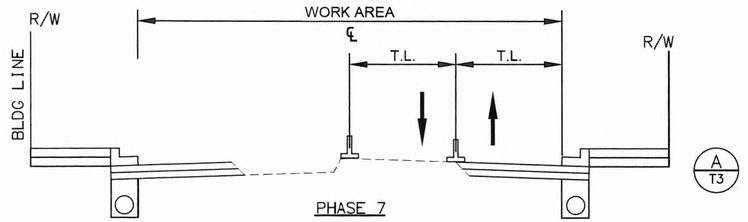
PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	**2017**
SHEET NUMBER	TOTAL SHEETS
T9	**140**

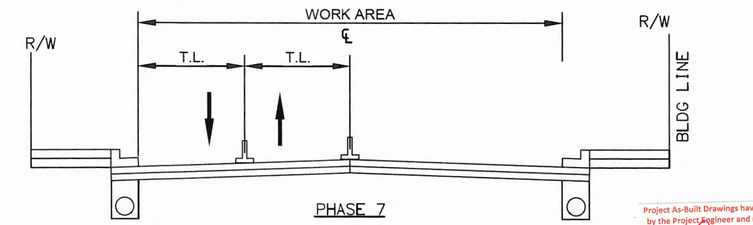
PLOTTED: 9/21/2017 4:12 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-TRAFFIC CONTROL SHEETS.DWG

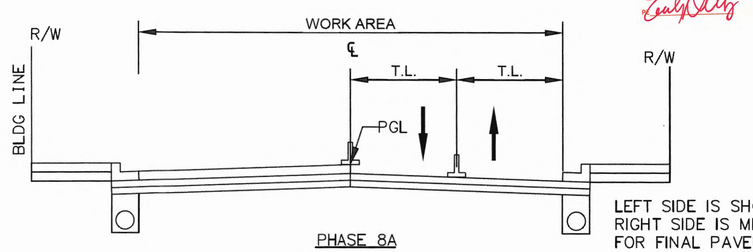












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FOR FINAL PAVEMENT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
Date 1/27/10

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

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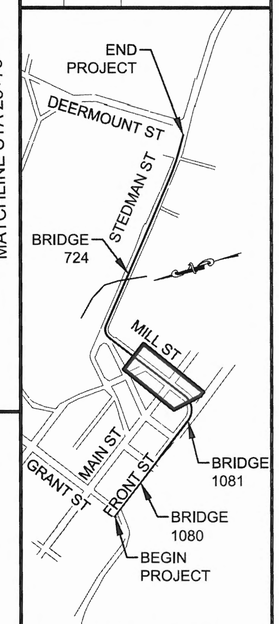


PLAN LEGEND

CHECKED BY:

DESIGNED BY:

DRAWN BY:

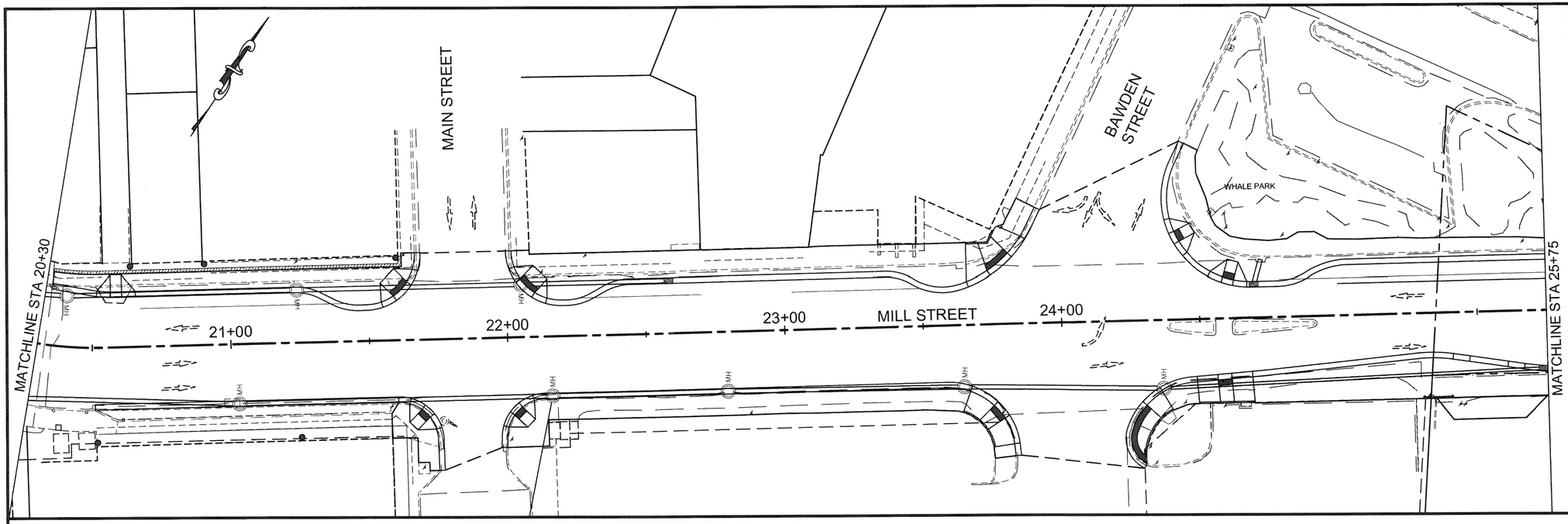
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

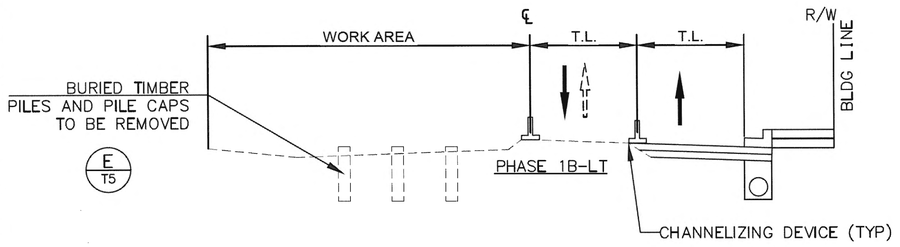
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

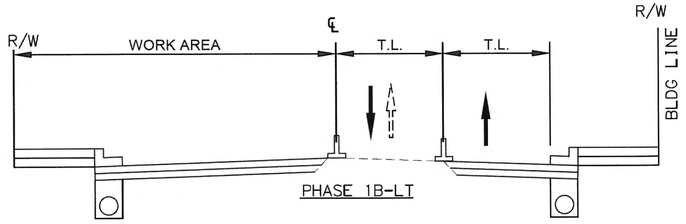
TRAFFIC CONTROL PLAN

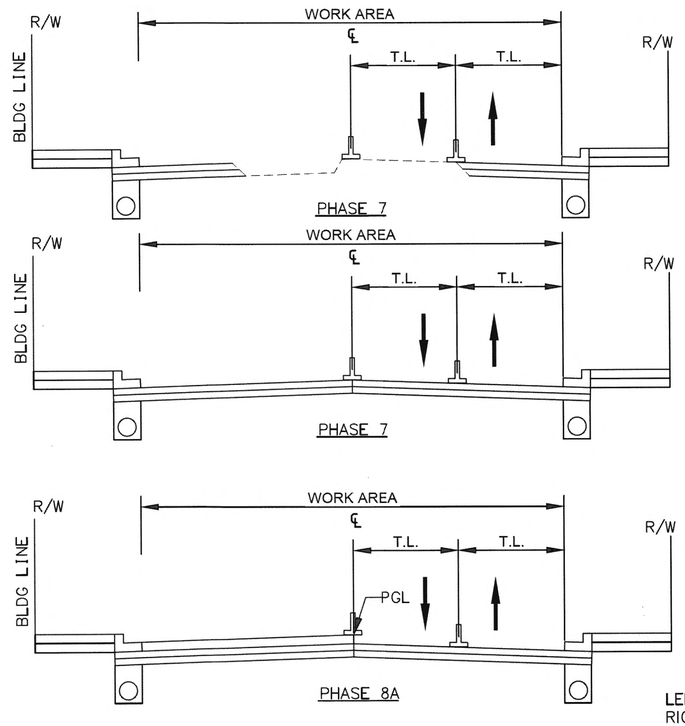
PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
T10	140

PLOTTED: 9/21/2017 4:13 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-TRAFFIC CONTROL SHEETS.DWG









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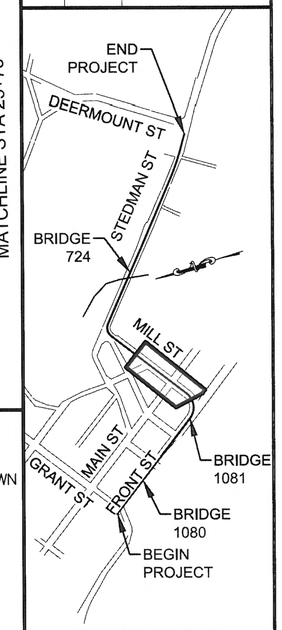


PLAN LEGEND

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

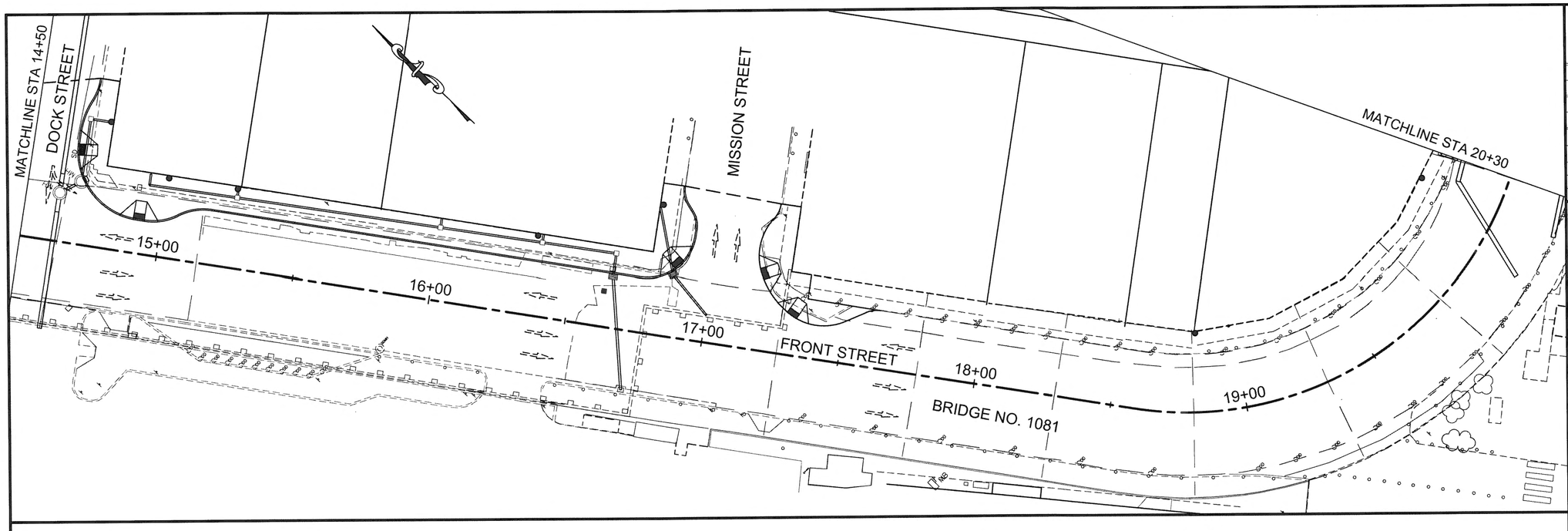
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

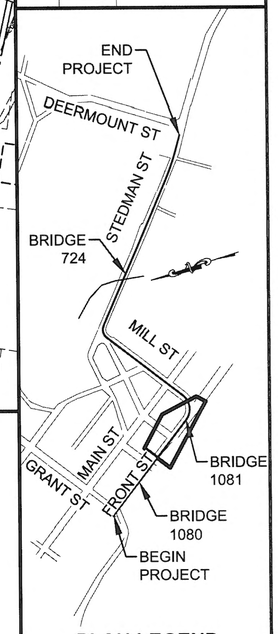
TRAFFIC CONTROL PLAN

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/17/18

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
T11	140

PLOTTED: 9/21/2017 4:13 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-TRAFFIC CONTROL SHEETS.DWG





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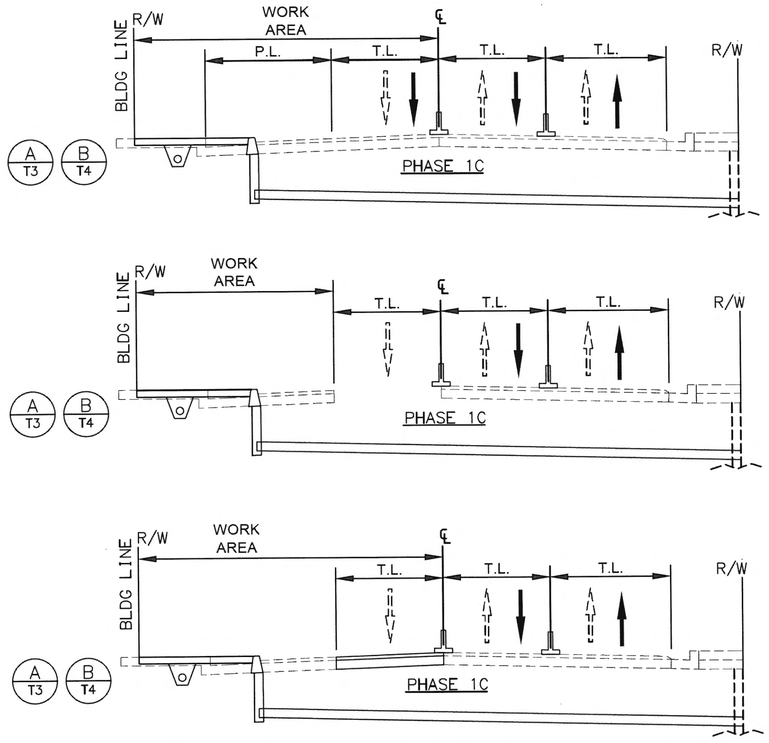

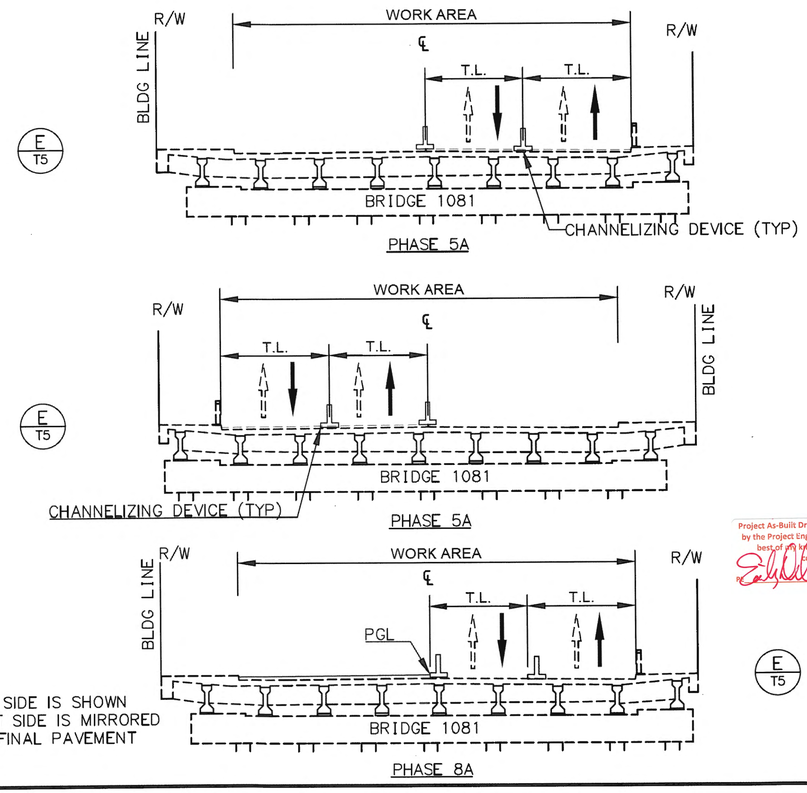

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By _____ Date 11/27/20

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STATE OF ALASKA
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SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
T12	140

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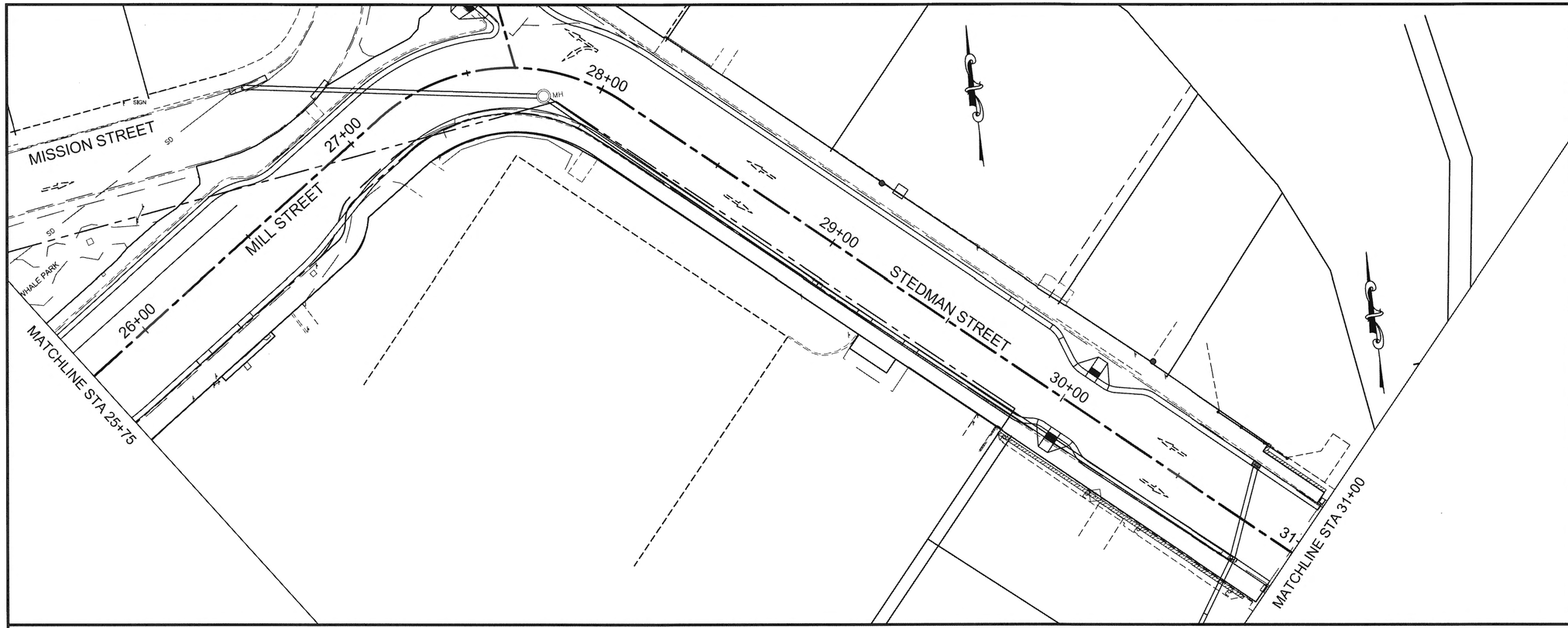

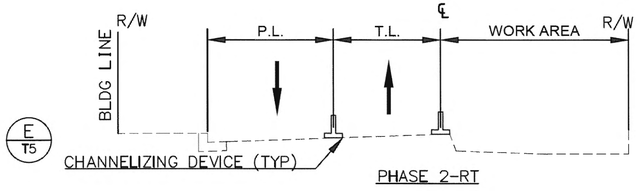

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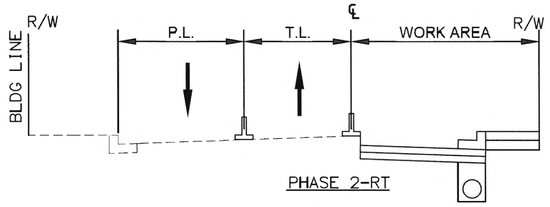

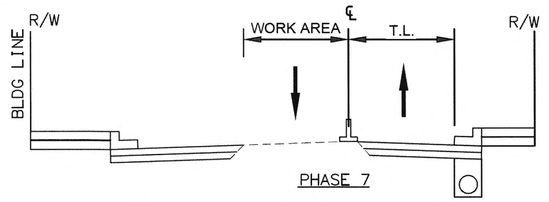

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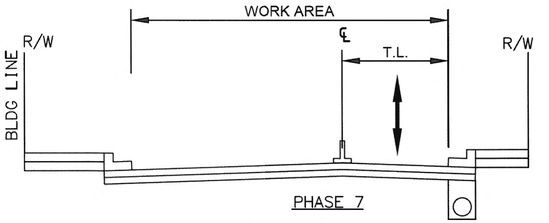

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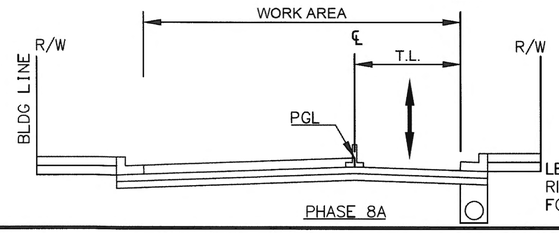

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PE Emily Kelley Date 11/27/20

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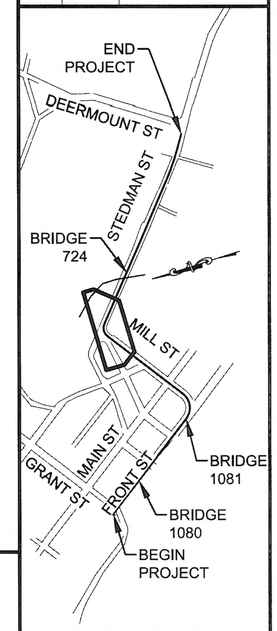

PLAN LEGEND

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
T13	140

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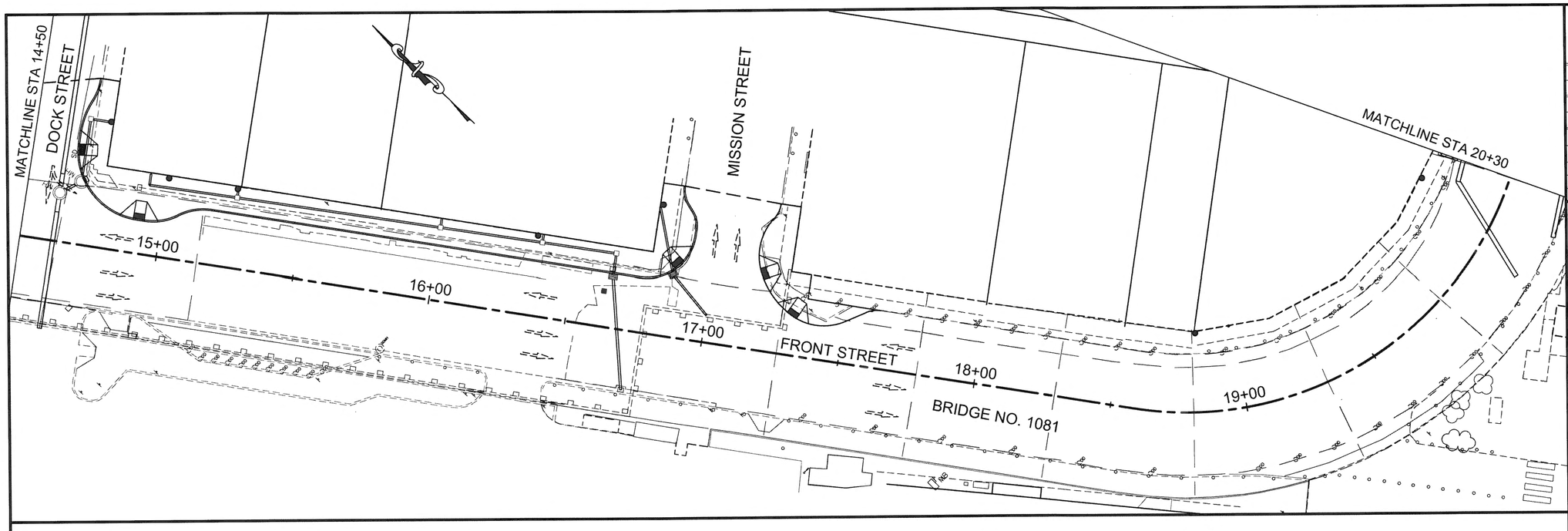

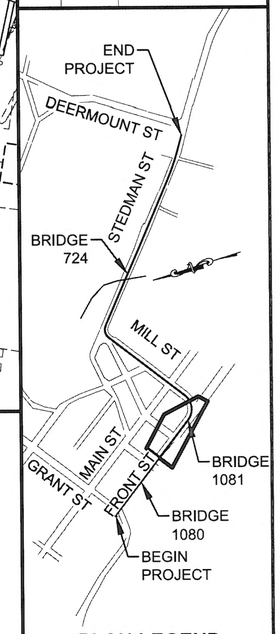

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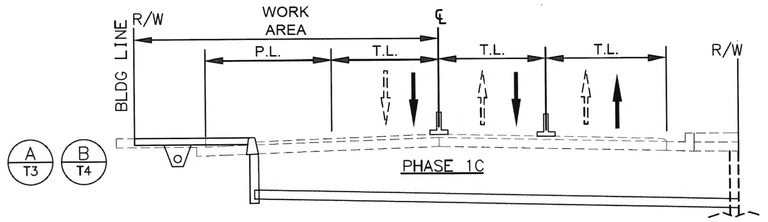

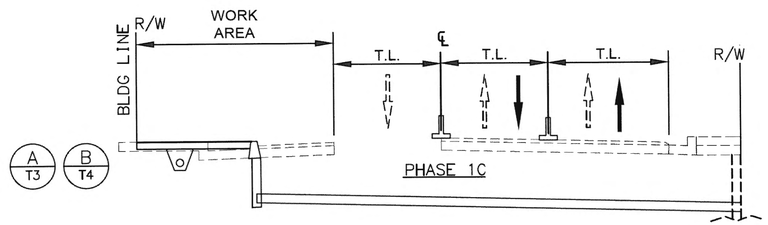

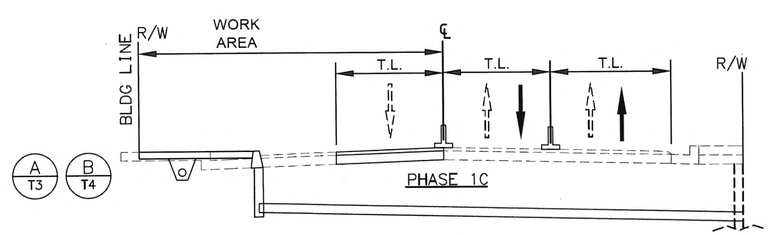

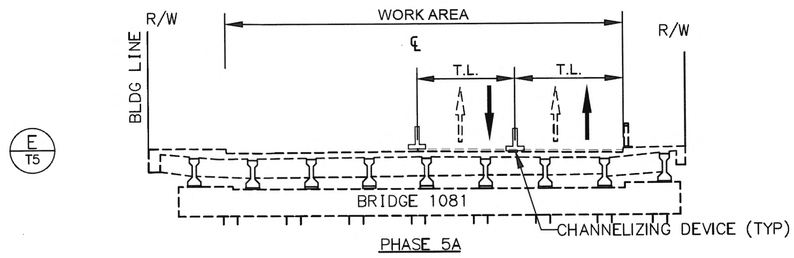

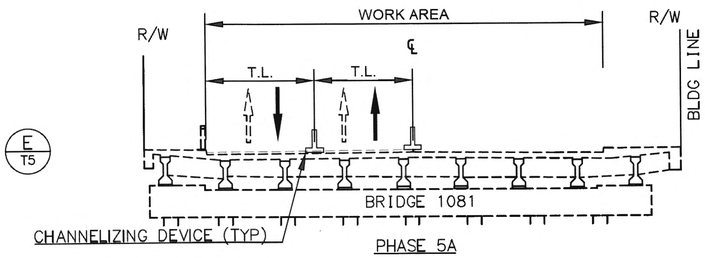

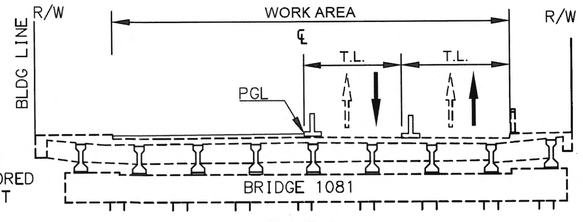

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By _____ Date 11/27/20

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DEPARTMENT OF TRANSPORTATION
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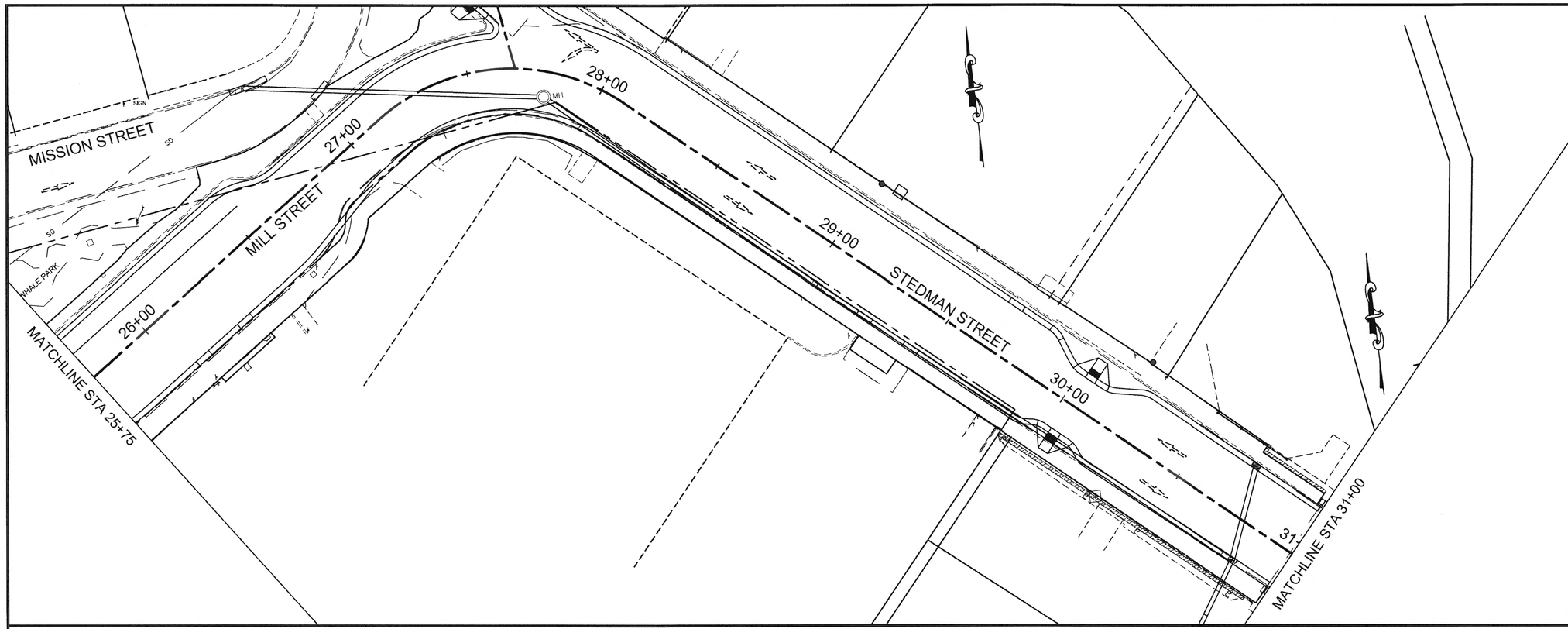
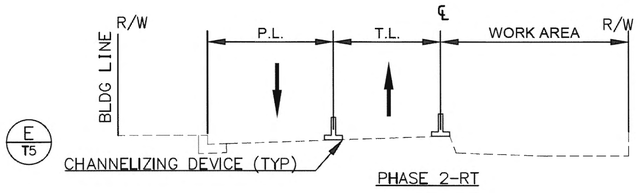
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

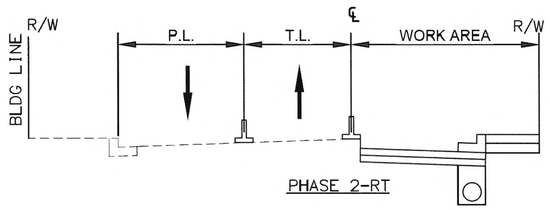
TRAFFIC CONTROL PLAN

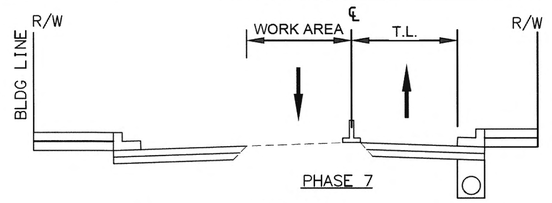
PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
T12	140



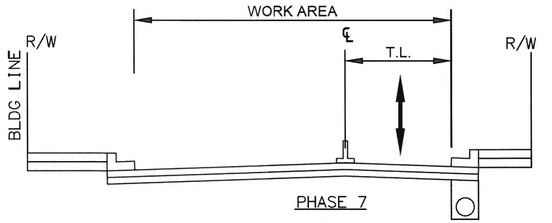


E / T5

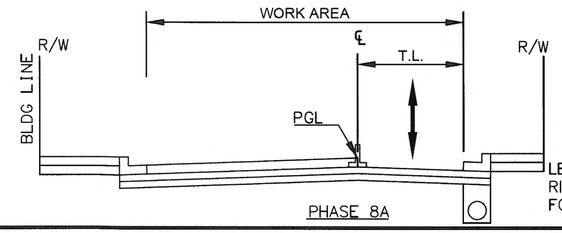




F / T5



F / T5



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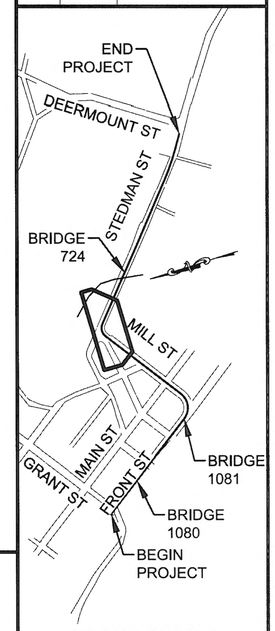
PE Emily Kelley Date 11/27/20



PLAN LEGEND

Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	**2017**
SHEET NUMBER	TOTAL SHEETS
T13	**140**

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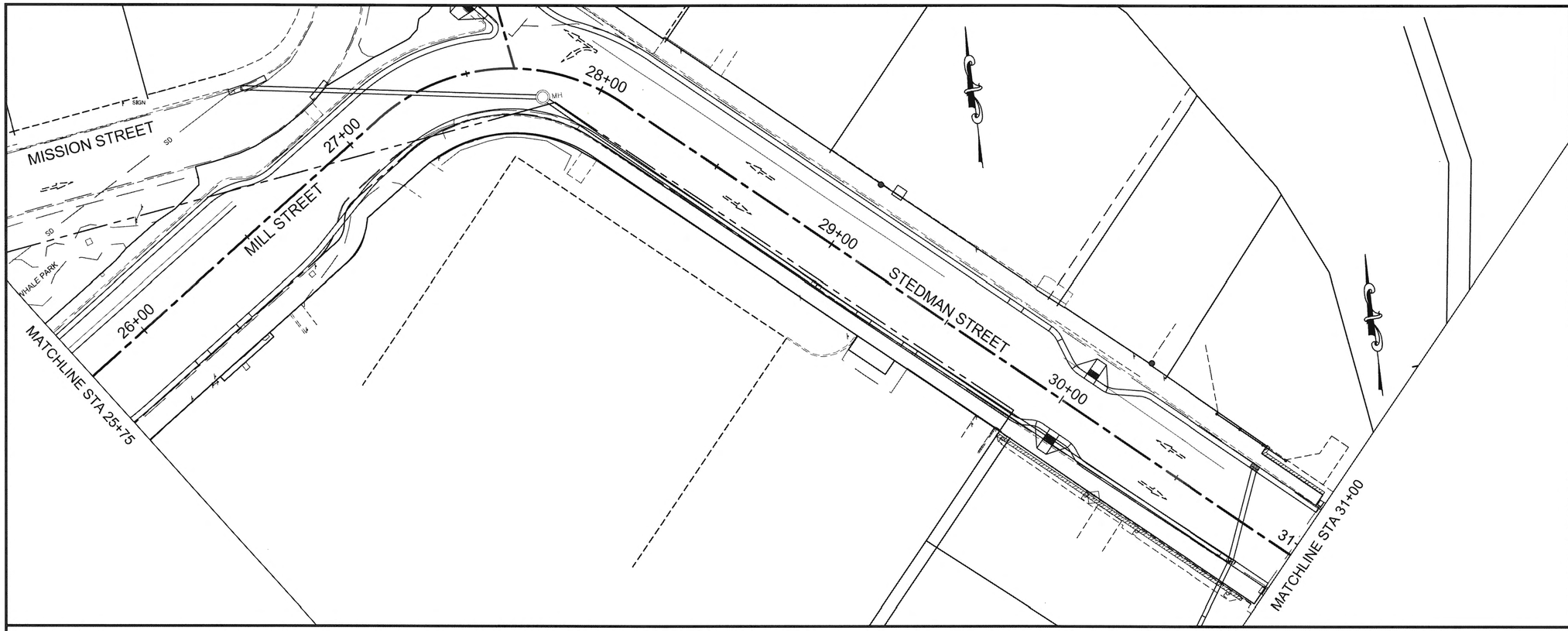

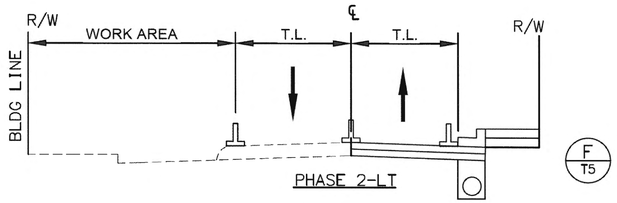

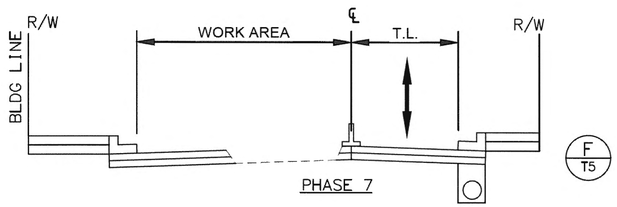

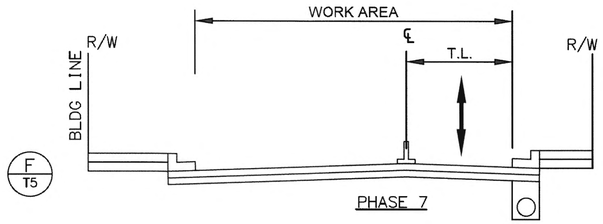

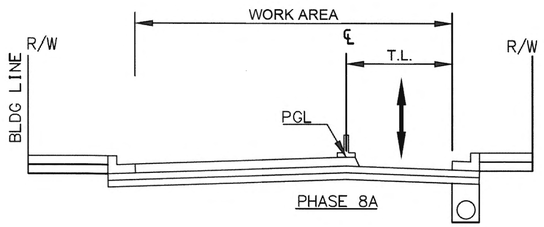

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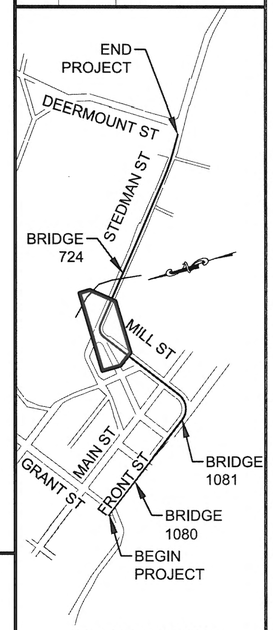
PE Date 1/27/18



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ALASKA	2017
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T14	140

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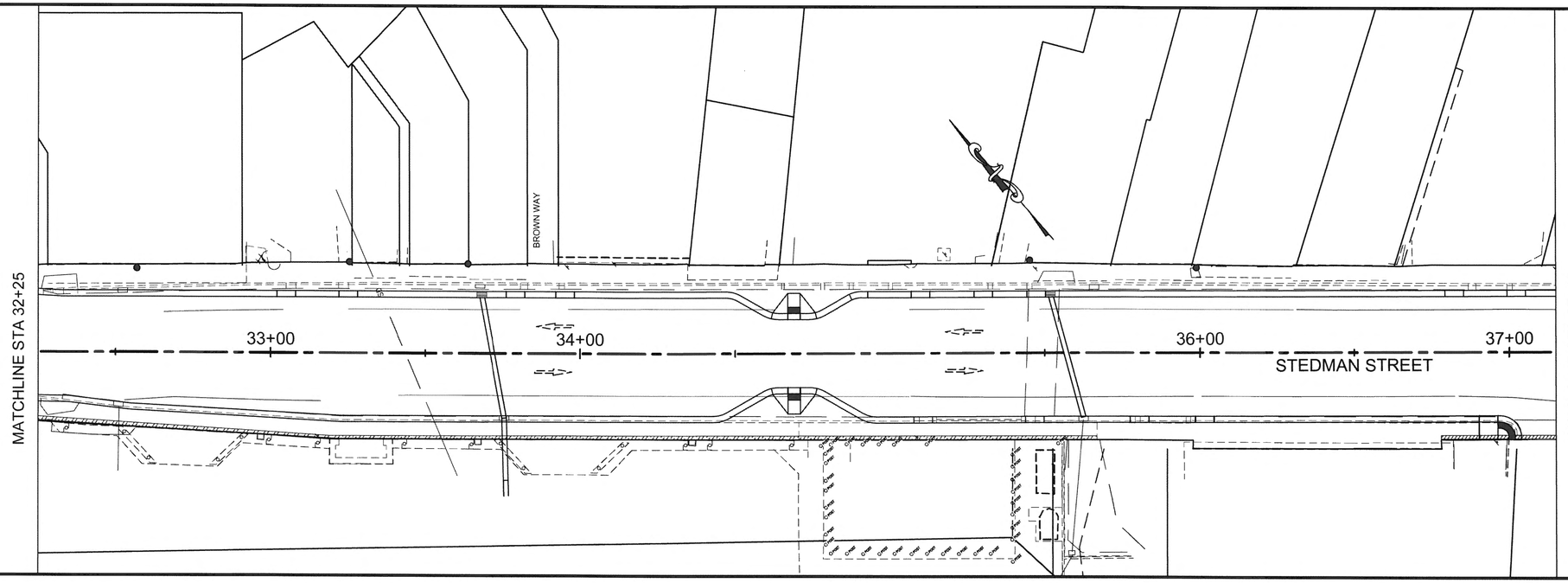

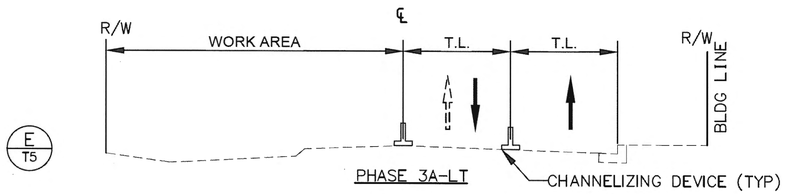

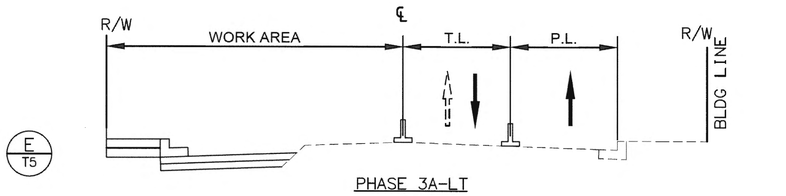

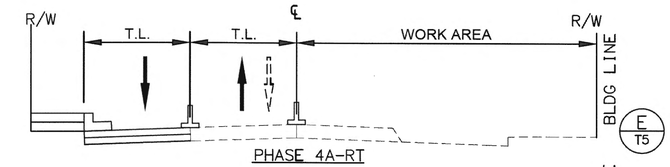

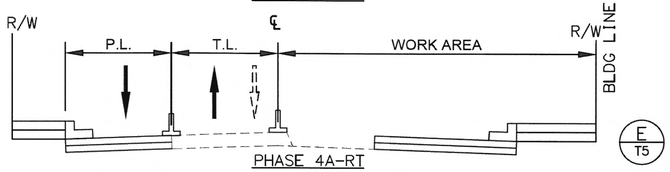

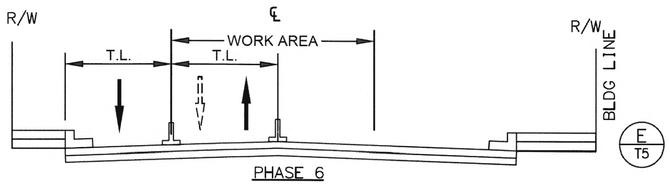

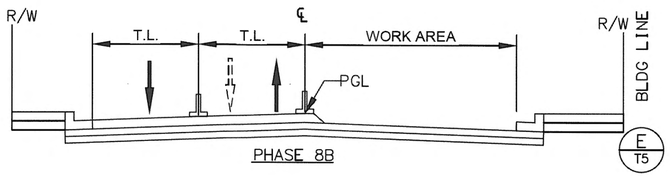

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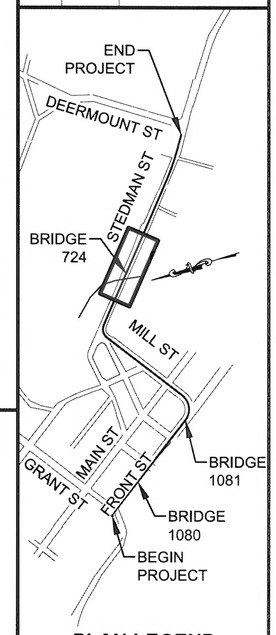

PLAN LEGEND

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PROJECT # Z681600000

TRAFFIC CONTROL PLAN

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NH-0902(038)	
STATE	YEAR
ALASKA	**2017**
SHEET NUMBER	TOTAL SHEETS
T15	**140**

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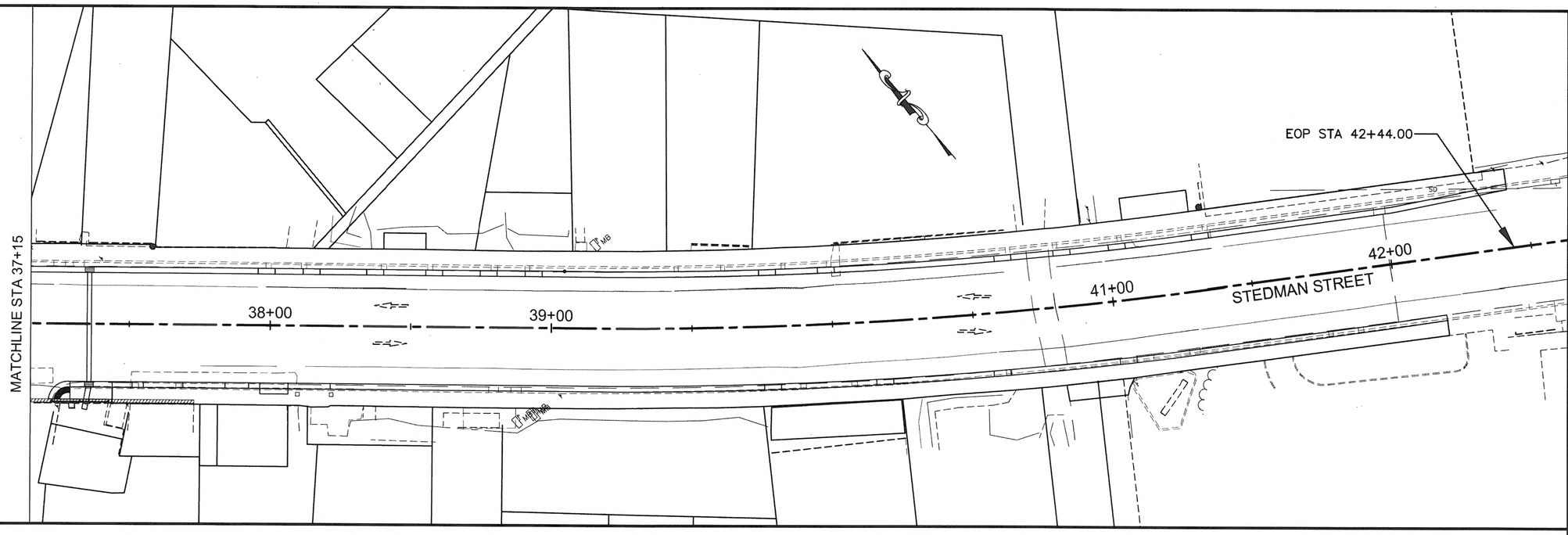

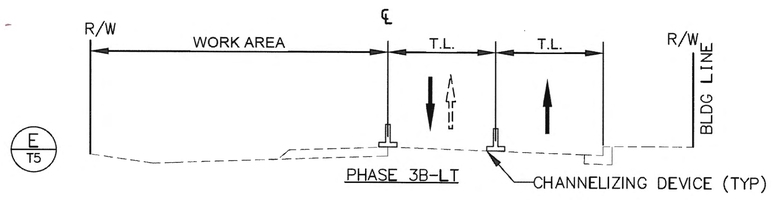

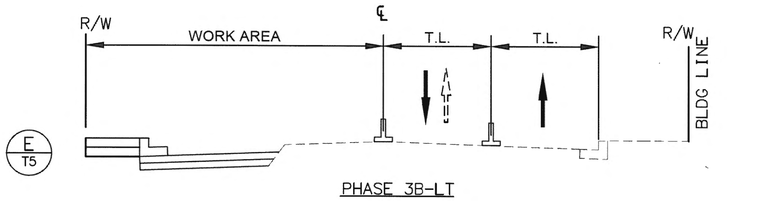

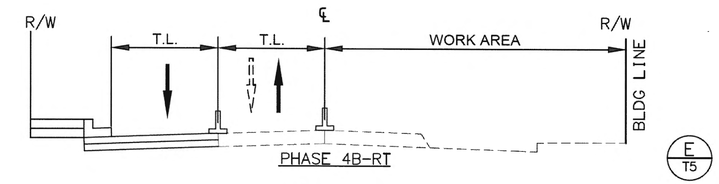

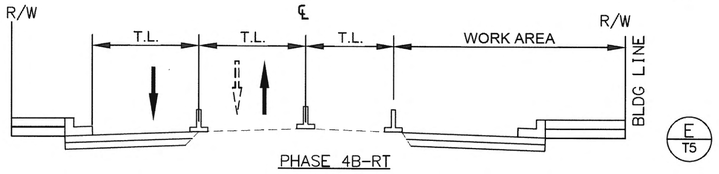

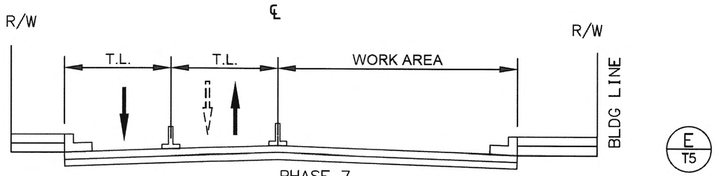

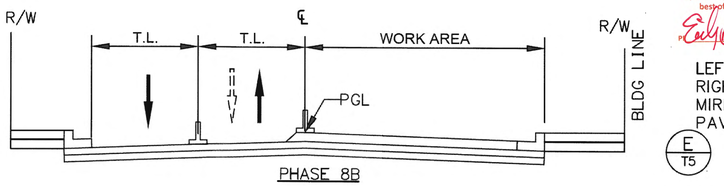

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PAVEMENT

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PE Date 1/27/20

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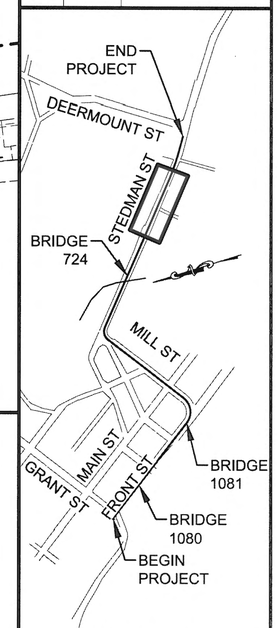


PLAN LEGEND

CHECKED BY:

DESIGNED BY:

DRAWN BY:

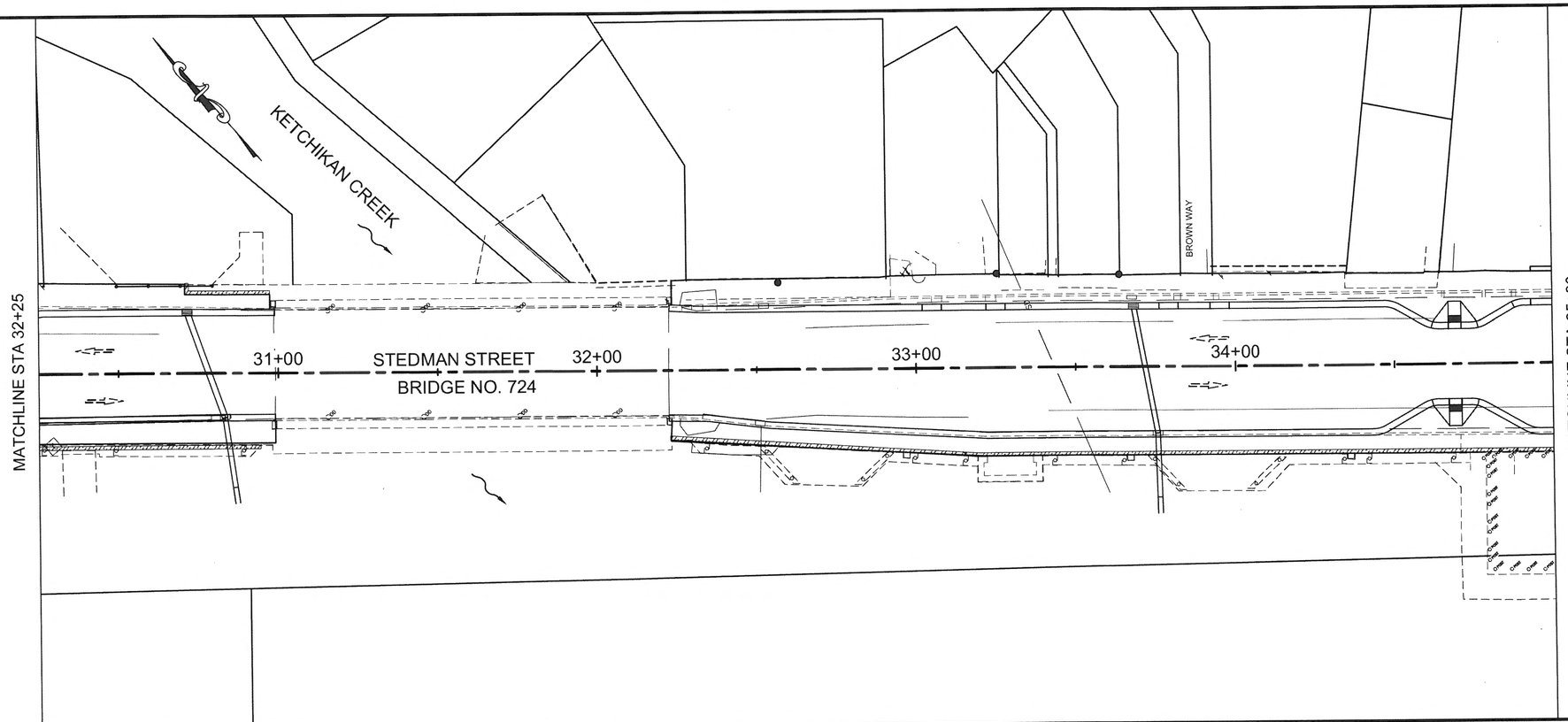
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

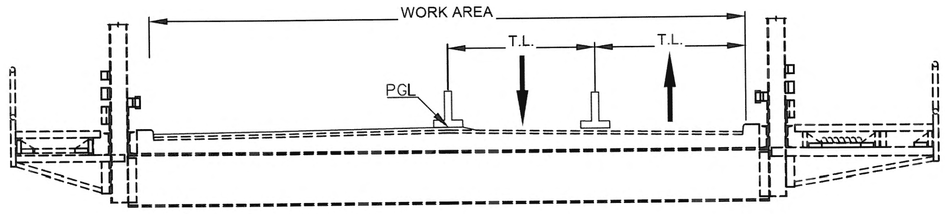
KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
T16	140

PLOTTED: 9/21/2017 4:16 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-TRAFFIC CONTROL SHEETS.DWG





PHASE 5B

LEFT SIDE IS SHOWN
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FOR FINAL PAVEMENT

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By Date 1/27/18

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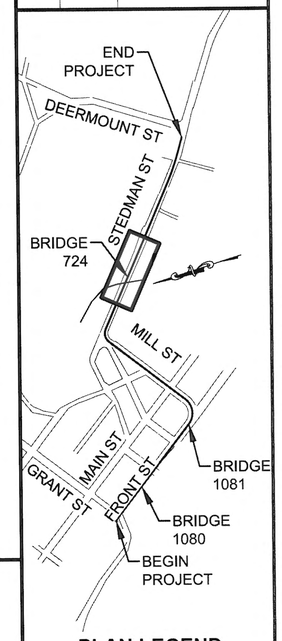

PLAN LEGEND

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STATE OF ALASKA
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SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION
NH-0902(038)

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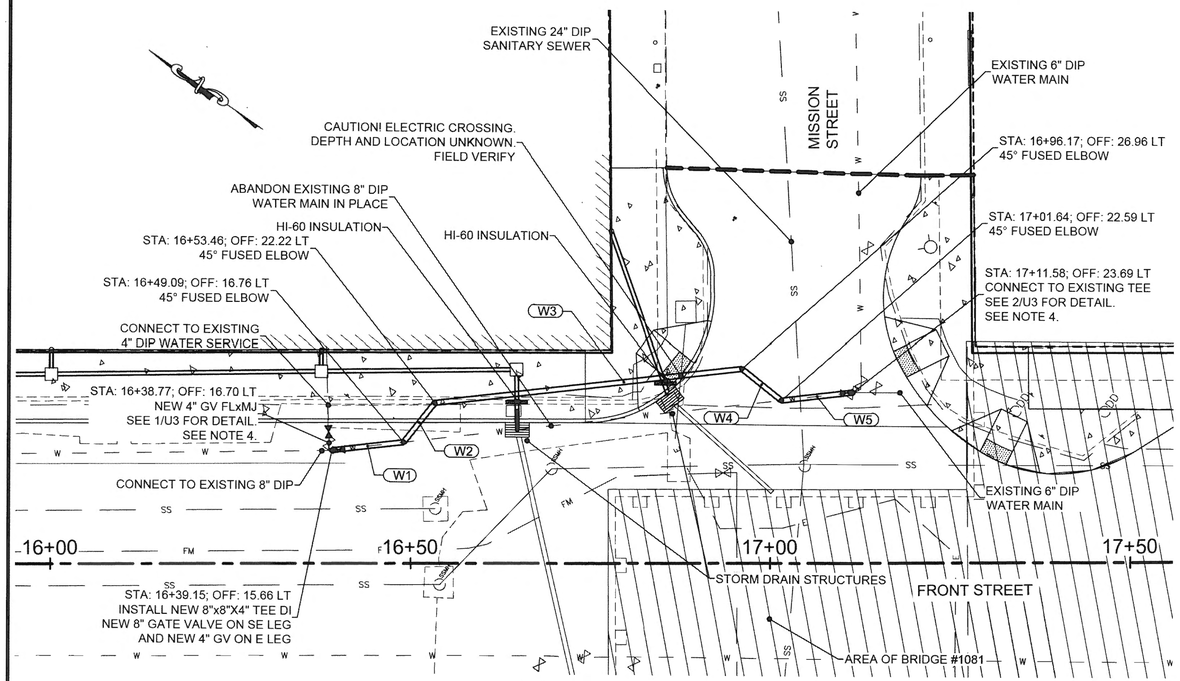
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
T17	140

PLOTTED: 9/21/2017 4:17 PM Z:\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-TRAFFIC CONTROL SHEETS.DWG

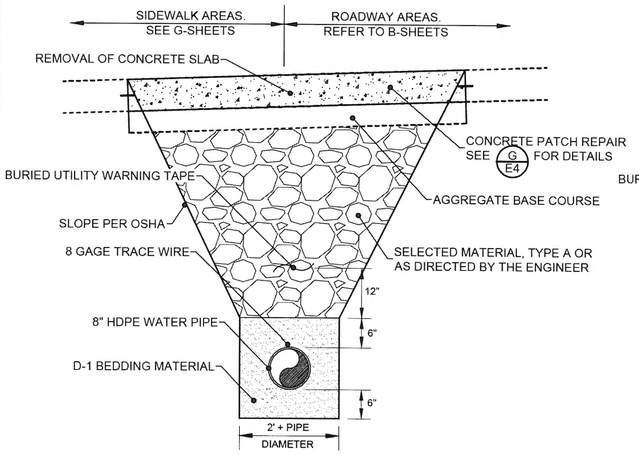


1/U1 PLAN VIEW

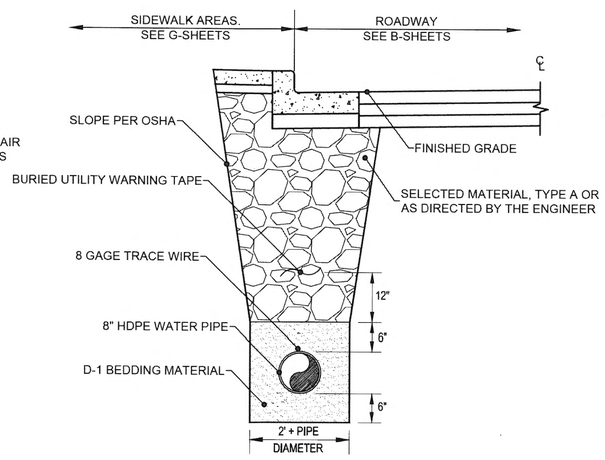
WATER RELOCATION NOTES

1. UTILITY DEPTHS AND ELEVATIONS ARE UNKNOWN OR APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
2. CONTRACTOR SHALL FIELD VERIFY VALVE AND TEE ORIENTATION AND ALL OPERATIONS NECESSARY TO ISOLATE THE PORTION OF THE WATER LINE TO BE REPLACED.
3. REPAIR THE CONCRETE SLAB PER THE DETAILS SHOWN ON REFERENCED SHEETS.
4. TEST EQUIPMENT INSTALLED AT EACH END OF THE PROPOSED WATER LINE WILL BE REMOVED AFTER PASSING LAB RESULTS ARE OBTAINED.
5. ALL MECHANICAL CONNECTIONS SHALL BE RESTRAINED.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL WATER SYSTEM ASSEMBLIES FOR APPROVAL PRIOR TO CONSTRUCTION.
7. INSTALL ANODE BAGS AT ALL HDPE x DI CONNECTIONS.
8. ALL NUTS AND BOLTS SHALL BE 316 STAINLESS STEEL.
9. INSULATION, ANODES, THRUST RESTRAINT AND ABANDON EXISTING MAIN IN PLACE SHALL BE SUBSIDIARY TO ITEM 627 WATER SYSTEM.

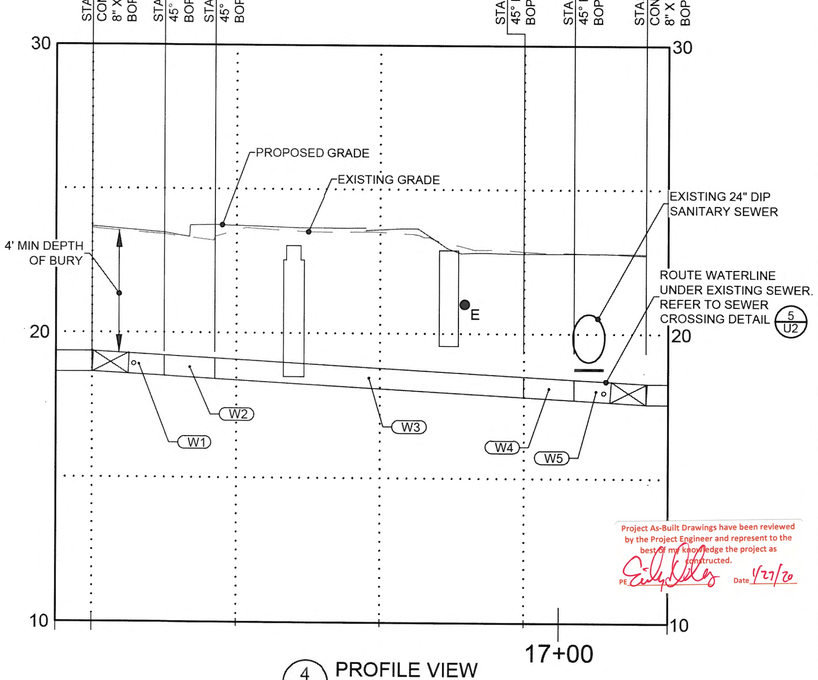
PIPE ID	DIA (IN.)	LENGTH	TYPE
W1	8	10.00	HDPE SDR 11
W2	8	7.00	HDPE SDR 11
W3	8	42.98	HDPE SDR 11
W4	8	7.00	HDPE SDR 11
W5	8	10.00	HDPE SDR 11



2/U1 TYPICAL WATER LINE TRENCH SECTION UNDER REINFORCED CONCRETE SLAB SECTION
NTS



3/U1 TYPICAL WATER LINE TRENCH SECTION IN AN EMBANKMENT
NTS



4/U1 PROFILE VIEW

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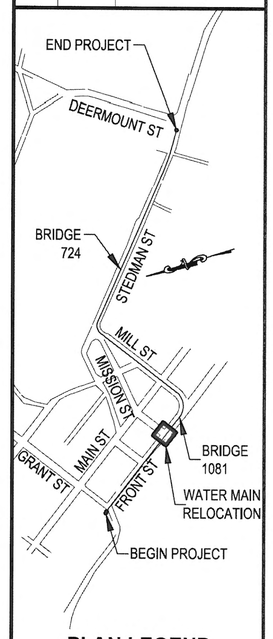


PLAN LEGEND

STATE OF ALASKA
49 TH
Chris Black
No. CE 12147
6/14/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

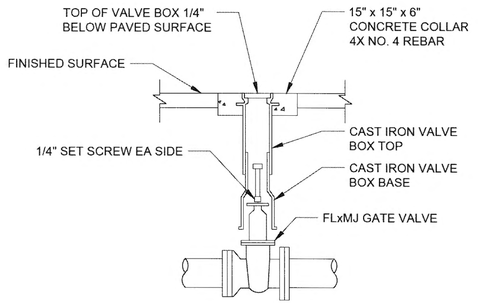
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

WATER MAIN RELOCATION

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
U1	140

PLOTTED: 6/14/2017 9:21 AM \\RM-RMNET\Z\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-U-WATER MAIN RELOCATE.DWG

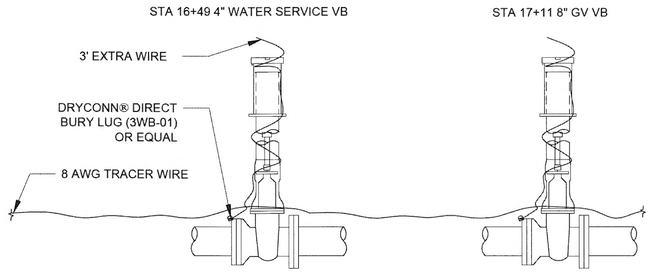


RESTRAIN ALL JOINTS

NOTES:

1. NEW VALVE BOX TO ALLOW FOR 12" MINIMUM VERTICAL ADJUSTMENT
2. THREADED VALVE BOX SECTIONS ARE NOT ALLOWED. REMOVE THREADED PORTIONS OF THE VALVE BOX WITH CUT-OFF SAW.
3. APPLY GREASE TO ALL INTERFACES BETWEEN VALVE BOX SECTIONS.
4. COMPACTION AROUND VALVE BOX INSTALLATION IS CRITICAL. EMPLOY MECHANICAL TAMPING METHODS TO ENSURE THAT MATERIAL AROUND VALVE BOX REACHES 95% OF MAXIMUM COMPACTION.
5. INSTALL A 6" MINIMUM THICKNESS OF D-1 BEDDING AROUND VALVE BOX DURING BACKFILL.
6. EXTENSION IS REQUIRED ON ALL VALVES WHERE OPERATING NUT IS 6' OR MORE BELOW FINISHED SURFACE.
7. VALVE BOX ASSEMBLY SHALL BE PLUMB.

1 U2 VALVE BOX



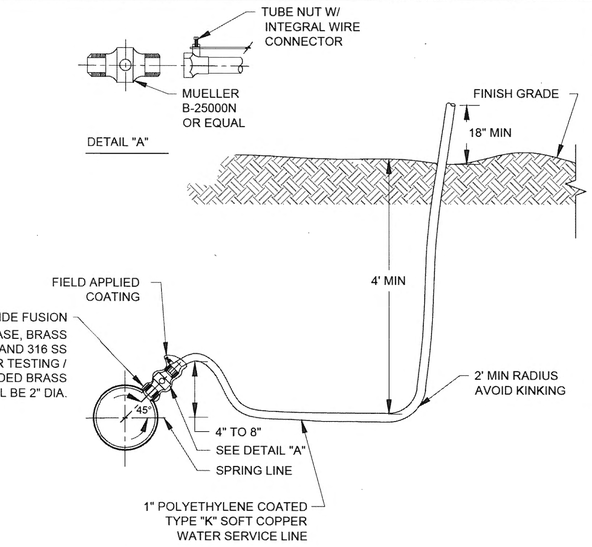
NOTE:

1. RUN A DIRECT BURIAL #8 AWG SOLID, STEEL CORE SOFT DRAWN HIGH STRENGTH TRACER WIRE, 600# AVERAGE TENSILE BREAK LOAD, 30 MIL HIGH MOLECULAR WEIGHT-HIGH DENSITY BLUE POLYETHYLENE JACKET COMPLYING WITH ASTM-D-1248, 30 VOLT RATING TRACER LINE CONTINUOUSLY ALONG THE HDPE MAIN LINE, TAPING IT TO THE PIPE EVERY 5' WITH 2" WIDE 10 MIL. PVC PIPE TAPE.

2. BRING LOCATE WIRE UP INTO THE VALVE CAN AT STATIONS 16+49 AND 17+11 WITH 3' OF EXTRA WIRE. IF A SPLICE IS REQUIRED USE A DRYCONN® DIRECT BURY LUG (3WB-01) OR EQUAL, FOLLOWING MANUFACTURES RECOMMENDATIONS.

3. SEE SHEET U3 NOTE 8.

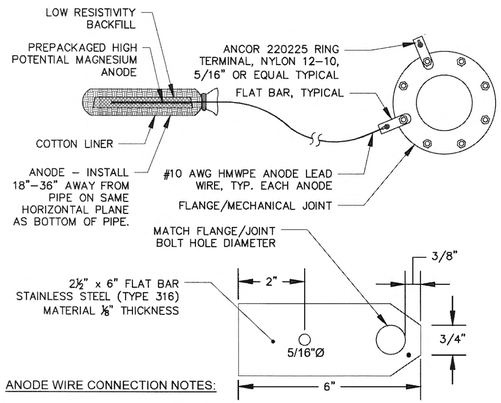
2 U2 TRACER WIRE



NOTE:

1. REMOVE ALL TEST GEAR AND SEAL THE SADDLES THREADED OPENING WITH SINGLE SOLID BODIED BRONZE PLUG. REFERENCE SECTION 627-3.09

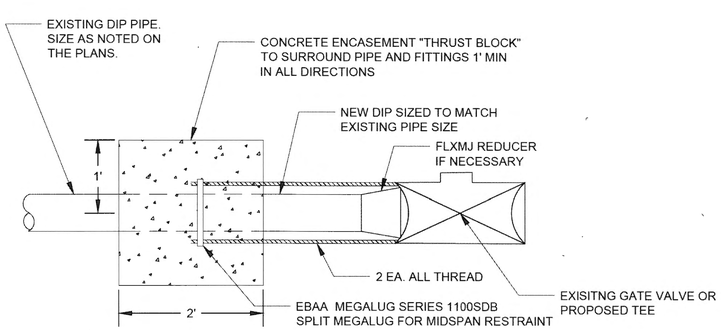
3 U2 1" WATER SERVICE



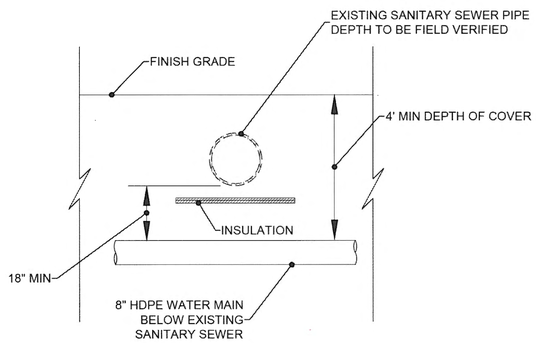
ANODE WIRE CONNECTION NOTES:

1. CONTRACTOR TO FABRICATE FLAT BAR.
2. INSTALL FLAT BAR ON BODY SIDE OF FLANGE OR MECHANICAL JOINT. REMOVE COATING AT THE FLAT BAR LOCATION PRIOR TO INSTALLATION. METAL TO METAL CONTACT IS REQUIRED. REPAIR VISIBLE COATING DAMAGE WITH DENSYL TAPE AND PRIMER.
3. CONNECT WIRE WITH COMPRESSION RING CONNECTOR AND 1/4"Ø x 1" STAINLESS STEEL BOLT (TYPE 316) WITH WASHER AND SELF LOCKING NUT.
4. TWO #10 AWG HMWPE JUMPER WIRES REQUIRED TO CONNECT EACH VALVE/HYDRANT.
5. WRAP ELECTRICAL INSULATION TAPE AROUND RING CONNECTOR AND BOND STRAP (WIRE END ONLY). DENSYL TAPE OR APPROVED EQUAL.
6. WRAP ELECTRICAL INSULATION TAPE A MINIMUM OF 3" DOWN ON WIRE INSULATION TO ENCAPSULATE CONNECTION.

6 U2 ANODE DETAIL



4 U2 THRUST RESTRAINT



5 U2 SEWER CROSSING DETAIL

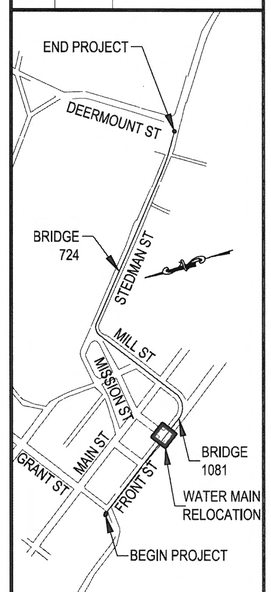
Plans Prepared By: R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
voice: 907 522-1707, fax: 907 522 3404
www.rmconsult.com
Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND



CHECKED BY:
DESIGNED BY:
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN STREETS RECONSTRUCTION
PROJECT # Z681600000

WATER DETAILS

PROJECT DESIGNATION	
NH-0902(038)	
STATE	YEAR
ALASKA	2017
SHEET NUMBER	TOTAL SHEETS
U2	140

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Date 1/17/20

PLOTTED: 6/14/2017 9:22 AM \\RM-RMNET\2-PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-U-WATER MAIN RELOCATE.DWG

WATER NOTES

1. HDPE PIPING MATERIAL - HDPE MJ/FLANGE CONNECTIONS SHALL BE ONE-PIECE, MOLDED POLYETHYLENE ADAPTERS WITH GALVANIZED RETAINER RING. MJ/FLANGE CONNECTIONS SHALL HAVE A MINIMUM PRESSURE RATING EQUAL TO OR GREATER THAN THAT OF THE HDPE PIPING. NUTS, BOLTS, AND WASHERS SHALL BE STAINLESS STEEL, TYPE 316. RUBBER GASKETS FOR MJ/FLANGE CONNECTIONS SHALL BE NSF STANDARD 61 CERTIFIED FOR USE IN POTABLE WATER SYSTEMS.

2. HDPE PIPING INSTALLATION - ALL HDPE WATER MAIN PIPING AND FITTINGS SHALL BE BUTT-FUSED IN ACCORDANCE WITH ASTM D2657. THE INDIVIDUAL WHO PERFORMS THE BUTT-FUSION SHALL HAVE WRITTEN CERTIFICATION FROM AN HDPE PIPE MANUFACTURER STATING HE/SHE HAS SUCCESSFULLY COMPLETED AN 8-HOUR (MINIMUM) CERTIFICATION CLASS ON BUTT-FUSION TECHNIQUES AND PROCEDURES. IN ADDITION, THIS INDIVIDUAL SHALL HAVE FUSED A COMBINED TOTAL OF MORE THAN 5,000 FEET OF HDPE PIPING IN DIAMETERS 4-INCHES AND LARGER.

3. HDPE PIPING INSTALLATION - A MAXIMUM OF THREE (2) JOINTS SELECTED AT RANDOM BY THE OWNER MAY BE TESTED FOR COMPLIANCE WITH ASTM D638 AS A QUALITY CONTROL MEASURE. SPECIMENS TO BE TESTED SHALL BE OBTAINED BY CUTTING THE WATER MAIN PIPING AT LEAST 12-INCHES ON EACH SIDE OF A FIELD-MADE JOINT. CONTRACTOR SHALL THEN REJOIN THE ENDS OF THE PIPING AND WORK MAY PROCEED. COSTS FOR REMOVAL AND REPAIR OF BUTT-FUSED JOINTS SHALL BE BORNE BY THE CONTRACTOR. ALL LAB COSTS ASSOCIATED WITH TESTING OF BUTT-FUSED JOINTS WILL BE BORNE BY THE CONTRACTOR.

4. HDPE PIPING INSTALLATION - THE CONTRACTOR SHALL ENSURE THAT EACH JOINT IS FUSED AT THE TEMPERATURE AND PRESSURE RECOMMENDED BY THE PIPE MANUFACTURER IN ORDER TO ACHIEVE THE MAXIMUM PRESSURE RATING FOR THAT JOINT. ALL BUTT-FUSED JOINTS FOR HDPE PIPING AND FABRICATED FITTINGS SHALL BE DOCUMENTED BY A COMPUTER DATA LOGGER THAT RECORDS PRESSURE AND TEMPERATURE APPLIED AT EACH FUSED JOINT, ALONG WITH THE DATE AND TIME THE JOINT WAS FUSED. COMPUTER PRINTOUTS, ELECTRONIC DATA, AND THE PROJECT STATION FOR EACH FIELD FUSED JOINT SHALL BE SUBMITTED TO THE OWNER.

5. HDPE PIPING INSTALLATION - CONTRACTOR SHALL INSPECT THE HDPE PIPING FOR DAMAGE IMMEDIATELY PRIOR TO JOINING. DAMAGE IS DEFINED AS CUTS OR GOUGES EXCEEDING 10% OF THE PIPE WALL THICKNESS, KINKED PIPE SECTIONS, PIPE SECTIONS FLATTENED TO MORE THAN 5% OF THE ORIGINAL DIAMETER, OR ANY ABRASION OR CUTTING OF THE INSIDE SURFACE OF THE PIPING. DAMAGED PORTIONS OF PIPING SHALL BE CUT OUT AND DISCARDED.

6. HDPE PIPING INSTALLATION - THE HANDLING OF THE JOINED PIPELINE SHALL BE IN SUCH A MANNER THAT THE PIPE IS NOT DAMAGED. ROPES, FABRIC, OR RUBBER-PROTECTED SLINGS, OR STRAPS SHALL BE USED WHEN HANDLING PIPES. CHAINS, CABLES, OR HOOKS INSERTED INTO THE PIPE ENDS SHALL NOT BE ALLOWED. TWO SLINGS SPREAD APART SHALL BE USED FOR LIFTING EACH LENGTH OF PIPE. SLINGS FOR HANDLING THE PIPELINE SHALL NOT BE POSITIONED AT BUTT-FUSED JOINTS.

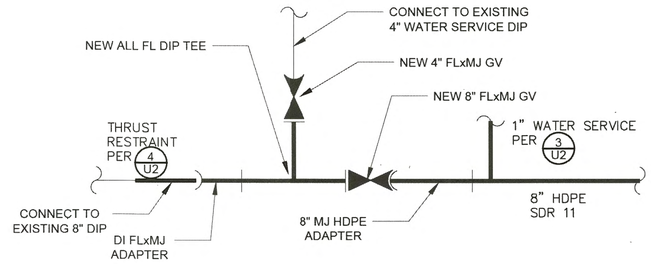
7. HDPE PIPING INSTALLATION: BEDDING - ALL HDPE WATER SYSTEM PIPING SHALL BE PLACED IN BEDDING AS SHOWN IN THE TYPICAL TRENCH SECTION DETAIL. PIPE BEDDING MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION: ADOT D-1 CRUSHED AGGREGATE BASE COURSE.

8. HDPE PIPING INSTALLATION: TRACER WIRE - INSTALL TRACER WIRE DIRECTLY ON TOP OF ALL HDPE WATER MAINS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. TRACER WIRE SHALL BE SUITABLE FOR DIRECT BURY APPLICATIONS AND SHALL BE 8 AWG WITH 30-MIL HDPE JACKET (JACKET COLOR BLUE), CAPABLE OF A 575 POUND AVERAGE TENSILE BREAK LOAD. TRACER WIRE SHALL BE COPPERHEAD INDUSTRIES REINFORCED TRACER WIRE. TRACER WIRE SHALL BE INSTALLED IN CONTINUOUS LENGTHS WITH NO SPLICES. TERMINATE EACH END OF TRACER WIRE AT GROUND SURFACE IN A VALVE BOX TOP SECTION WITH CAP. PROVIDE A MINIMUM OF FIVE (3) FEET OF ADDITIONAL WIRE NEATLY COILED WITHIN VALVE BOX AT EACH END.

9. HDPE PIPING FLUSHING - NEWLY INSTALLED HDPE WATER MAINS SHALL BE OPEN-BORE FLUSHED PRIOR TO INSTALLATION OF WATER SERVICES.

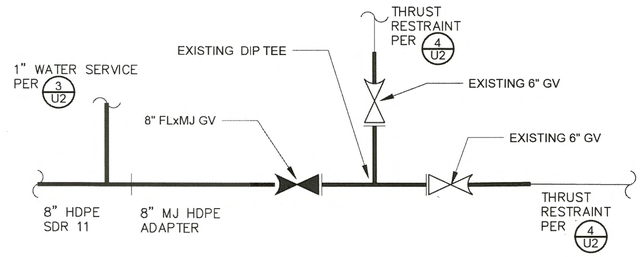
10. VALVE MATERIAL - GATE VALVES SHALL BE IRON BODY, RESILIENT-SEATED VALVES WITH NON-RISING STEMS FOR WATER SUPPLY SERVICE, MANUFACTURED IN ACCORDANCE WITH AWWA C509. GATE VALVES SHALL HAVE A TWO (2) INCH SQUARE OPERATING NUT, AND SHALL OPEN COUNTERCLOCKWISE. UNLESS OTHERWISE DETAILED ON THE DRAWINGS, VALVE AND VALVE/PIPE INTERFACE SHALL BE MJ/FLANGE TYPE CONNECTIONS CONFORMING TO AWWA C110 AND CERTIFIED LEAD FREE. INTERIOR AND EXTERIOR VALVE COATING SHALL BE FUSION BONDED EPOXY (FBE) IN ACCORDANCE WITH AWWA C550. IF INTEGRITY OF FBE COATING IS DAMAGED DURING SHIPPING OR INSTALLATION, CONTRACTOR SHALL FIELD REPAIR FBE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. VALVE NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL, TYPE 316. CARBON STEEL GALVANIZED OR ZINC PLATED NUTS, BOLTS, AND WASHERS SHALL NOT BE ALLOWED.

11. ANODES - ANODES SHALL BE INSTALLED FOR ALL WATER MAIN GATE VALVES. THE NO. 10 AWG HMWPE LEAD WIRES SHALL BE ATTACHED TO THE VALVES AS SHOWN ON THE DETAILS. LEAD WIRE CONNECTION TO THE VALVE FLANGE SHALL UTILIZE A MECHANICAL CONNECTION AS SHOWN ON THE DETAILS. ANODES SHALL BE INSTALLED 12"-36" FROM THE SIDE WALL OF THE GATE VALVES TO A CENTERLINE DEPTH IN-LINE WITH THE APPROXIMATE HORIZONTAL PLANE OF THE VALVE BOTTOM DEAD CENTER. EXACT ANODE LOCATION SHALL BE SHOWN ON THE RECORD DRAWINGS. EXTREME CARE SHALL BE TAKEN SO AS NOT TO DAMAGE THE ANODES OR LEAD WIRES DURING BACKFILL PROCEDURES.



RESTRAINED JOINTS THROUGHOUT CONNECTION TYP.

1 U3 FRONT STREET CONNECTION



RESTRAINED JOINTS THROUGHOUT CONNECTION TYP.

2 U3 MISSION STREET CONNECTION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
P.E. Date 11/27/17

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Cert. of Auth. No. AECC111

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

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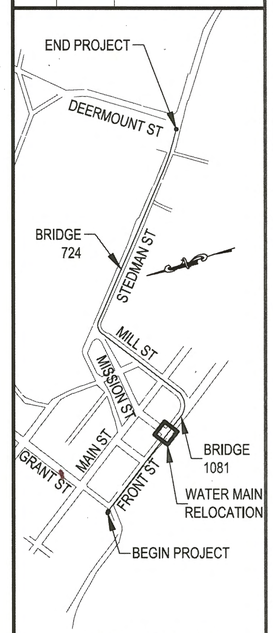

PLAN LEGEND

STATE OF ALASKA 49 TH
Chris Black
No. CE 12147
9/14/17
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

KTN: FRONT, MILL, & STEDMAN
STREETS RECONSTRUCTION
PROJECT # Z681600000

WATER DETAILS

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PLOTTED: 6/14/2017 9:23 AM \\RM.RMNET\Z\PROJECT\1900.03 DOT_SE KETCHIKAN MILL STEDMAN NTP 4\CIVIL\ACAD\1900.03-U-WATER MAIN RELOCATE.DWG